PURCHASING DEPARTMENT
840 West 11th Street
Panama City, Florida 32401
Telephone: (850) 248-8270
Fax: (850) 248-8276

BOARD OF COUNTY COMMISSIONERS

WWW.BAYCOUNTYFL.GOV

840 WEST 11TH STREET
PANAMA CITY, FL 32401

COMMISSIONERS:

TOMMY HAMM
DISTRICT I

ROBERT CARROLL
DISTRICT II

WILLIAM T. DOZIER
DISTRICT III

DOUGLAS MOORE
DISTRICT IV

PHILIP "GRIFF" GRIFFITTS
DISTRICT V

ROBERT J. MAJKA
COUNTY MANAGER

January 12, 2022

Prospective Respondents

RE: Addendum #1 22-27 Bay County Government Center Building Generator Re-Bid

Please accept this as Addendum No. 1 for the above referenced solicitation.

The following questions have been received during the Pre-bid meeting. The County's answers follow in **bold.**

1. Could you please clarify the Construction time listed in the Contract Term? **The Contract term will be amended to 270 Calendar days. 90 of those days will be for design. Once the design has been approved, a notice to proceed for construction will be issued and 180 calendar days will be allotted for the remainder of the project to be completed.**

2. Can you provide as-built construction drawings for the Government Center Building? **Yes, please see below.**

3. Can you provide engineering field representative information for the Power Company? **Yes, please see below.**

All respondents shall acknowledge receipt of this addendum by signing and submitting, with their bid, the addendum acknowledgement form included in the Bid package.

Regards,

Scott Nabers
Contracts Administrator

EASTERN DISTRICT ENGINEERING FIELD REPRESENTATIVES

DISTRICT	OFFICE	PHONE	BIN
EASTERN	PANAMA CITY	850-872-3203	11
EASTERN	PANAMA CITY BEACH	850-872-3289	10
EASTERN	CHIPLEY	850-872-3289	13

DISTRICT	TITLE	AREA	OFFICE	NAME	PHONE
EASTERN	LARGE PROJECT MANAGER	PANAMA CITY BEACH	PANAMA CITY BEACH	CONNER LICHTY	850-872-3264
EASTERN	LARGE PROJECT MANAGER	PANAMA CITY	PANAMA CITY	CHRIS BUTLER	850-872-3211
EASTERN	CONSTRUCTION SUPERVISOR	PANAMA CITY	PANAMA CITY	JOHN PARKER	850-872-3215
EASTERN	CONSTRUCTION SUPERVISOR	PANAMA CITY BEACH	PANAMA CITY BEACH	HEATH CANNON	850-872-3218
EASTERN	CONSTRUCTION SUPERVISOR	PANAMA CITY	PANAMA CITY	SCOTT HARDISON	850-872-3212
EASTERN	CONSTRUCTION SUPERVISOR	CHIPLEY	CHIPLEY	JASON BYRD	850-415-4221

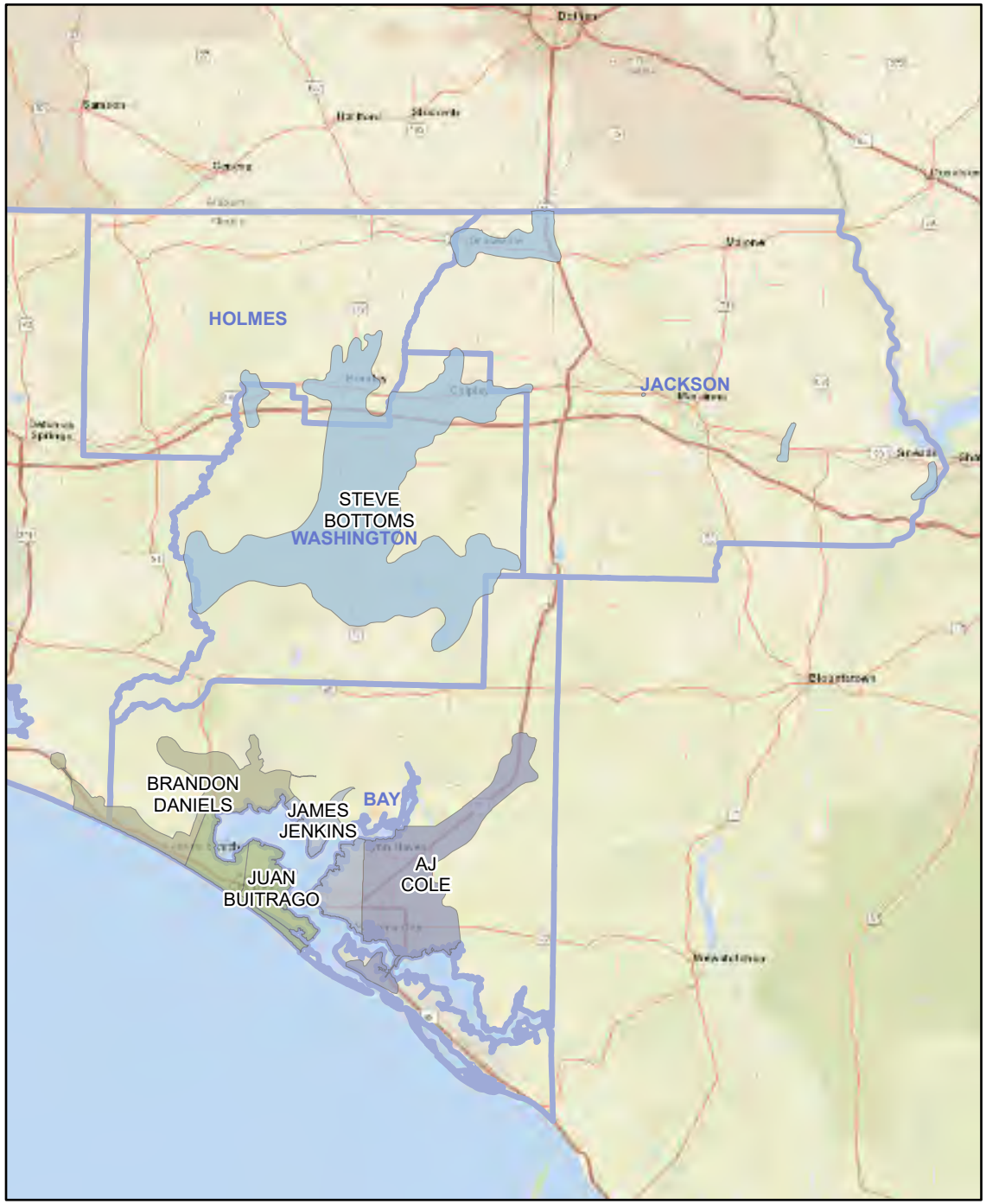
DISTRICT	TITLE	OFFICE	NAME	PHONE
EASTERN	ENGINEERING ASSISTANT	PANAMA CITY	BETH GONZALEZ	850-872-3289

DISTRICT	OFFICE	REP_NAME	PHONE	EMAIL
EASTERN	PANAMA CITY	AJ COLE	850-872-3329	Aidon.Cole@fpl.com
EASTERN	PANAMA CITY BEACH	BRANDON DANIELS	850-872-3228	Brandon.Daniels@fpl.com
EASTERN	PANAMA CITY	JAMES JENKINS	850-872-3217	James.Jenkins2@fpl.com
EASTERN	PANAMA CITY BEACH	JUAN BUITRAGO	850-872-3360	Juan.Buitrago@fpl.com
EASTERN	CHIPLEY	STEVE BOTTOMS	850-415-4208	Steve.Bottoms@fpl.com

Designated Areas

- AJ COLE
- BRANDON DANIELS
- JAMES JENKINS
- JUAN BUITRAGO
- STEVE BOTTOMS

1 inch equals 13 miles



Updated: 5/11/2021 9:00 AM



THIRD FLOOR PLAN - LIGHTING AREA A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

CONSULTING ENGINEERING GROUP INC.
INTERNATIONAL TAMPA FLORIDA
8461 NORTH FLORIDA AVE.
TAMPA, FLORIDA 33604
813.935.0796
813.935.0797 (FAX)
EMAIL: CEGINTAMPA@AOL.COM
FLORIDA CERTIFICATE OF AUTHORIZATION
COA # EB-0007212

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

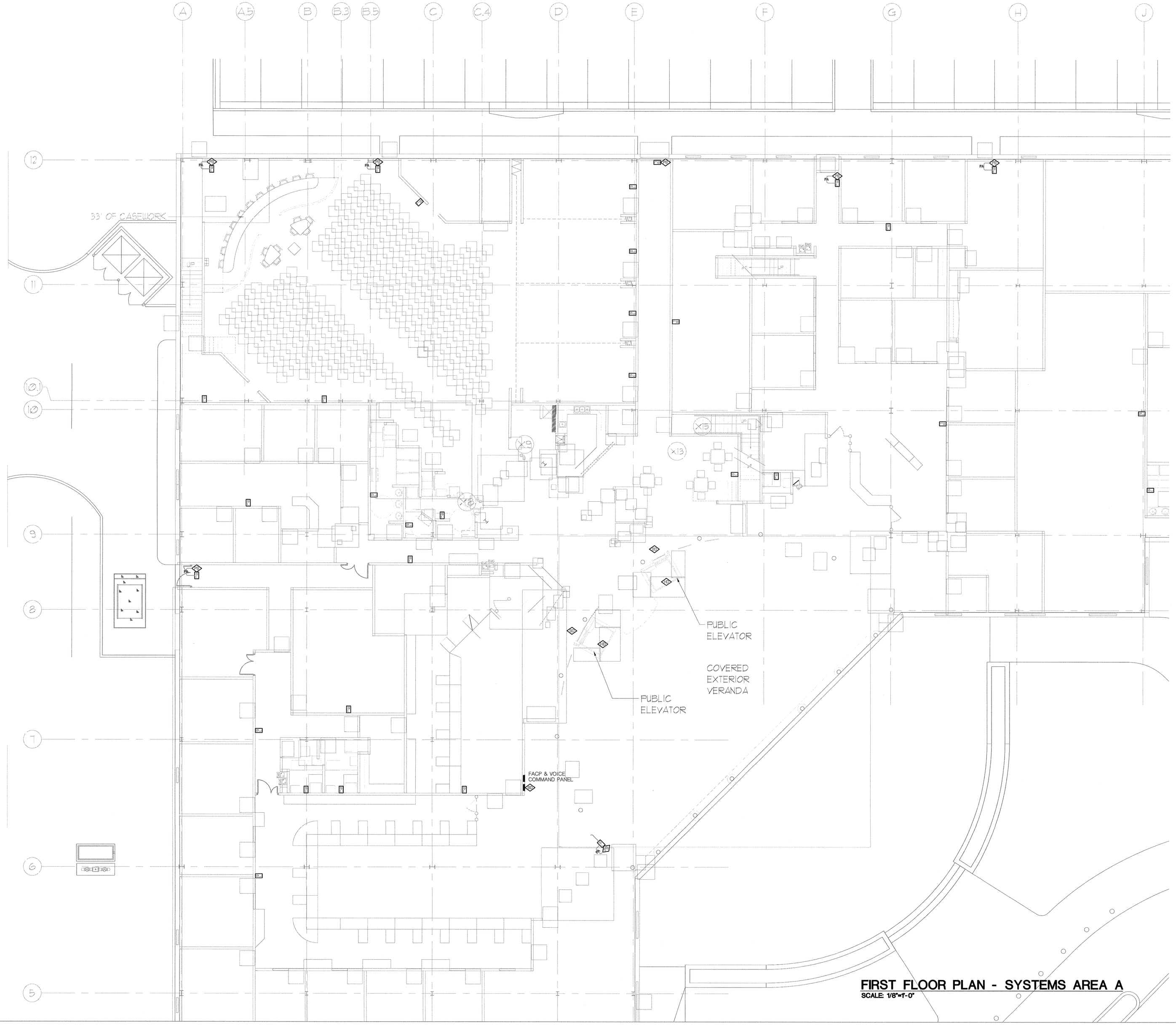
PANAMA CITY, FLORIDA

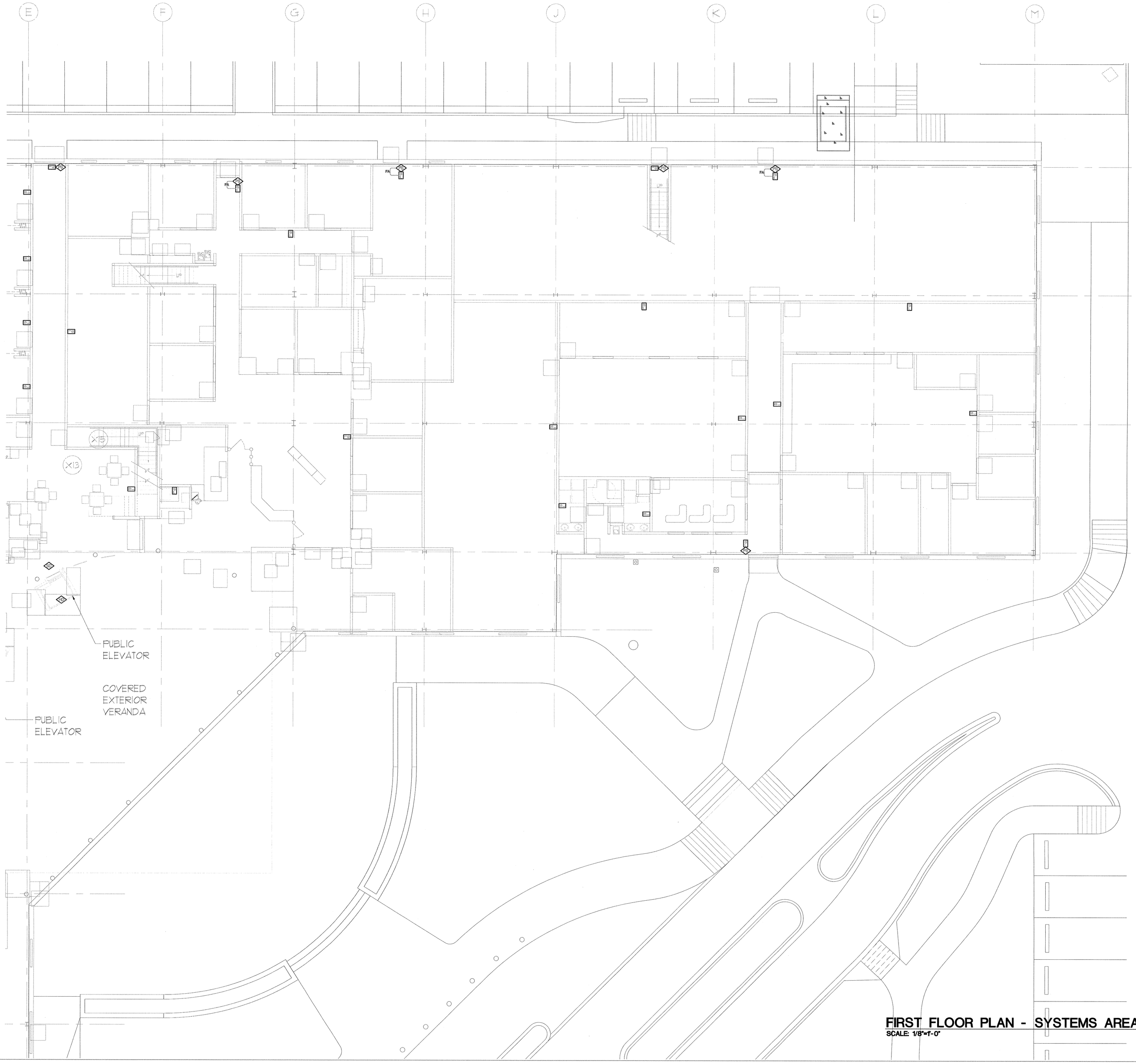
SHEET TITLE:

THIRD FLOOR ZONE A
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.3A


A
A.5
B
B.3
B.5
C
C.4
D
E
F
G
H
J
12
11
10.1
10
9
8
7
6
5
33' OF CASEWORK
UP
UP
UP
X9
X13
X15
PA
PA
PA



FIRST FLOOR PLAN - SYSTEMS AREA B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-30-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

JRA Architects, Inc.
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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1940 NORTH FLORIDA AVE.
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813.935.2766
813.935.2767 (FAX)
EMAIL: CEGITAMPA@YAHOO.COM
WEBSITE: WWW.CEGI.COM
CGA # EB-0007732

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

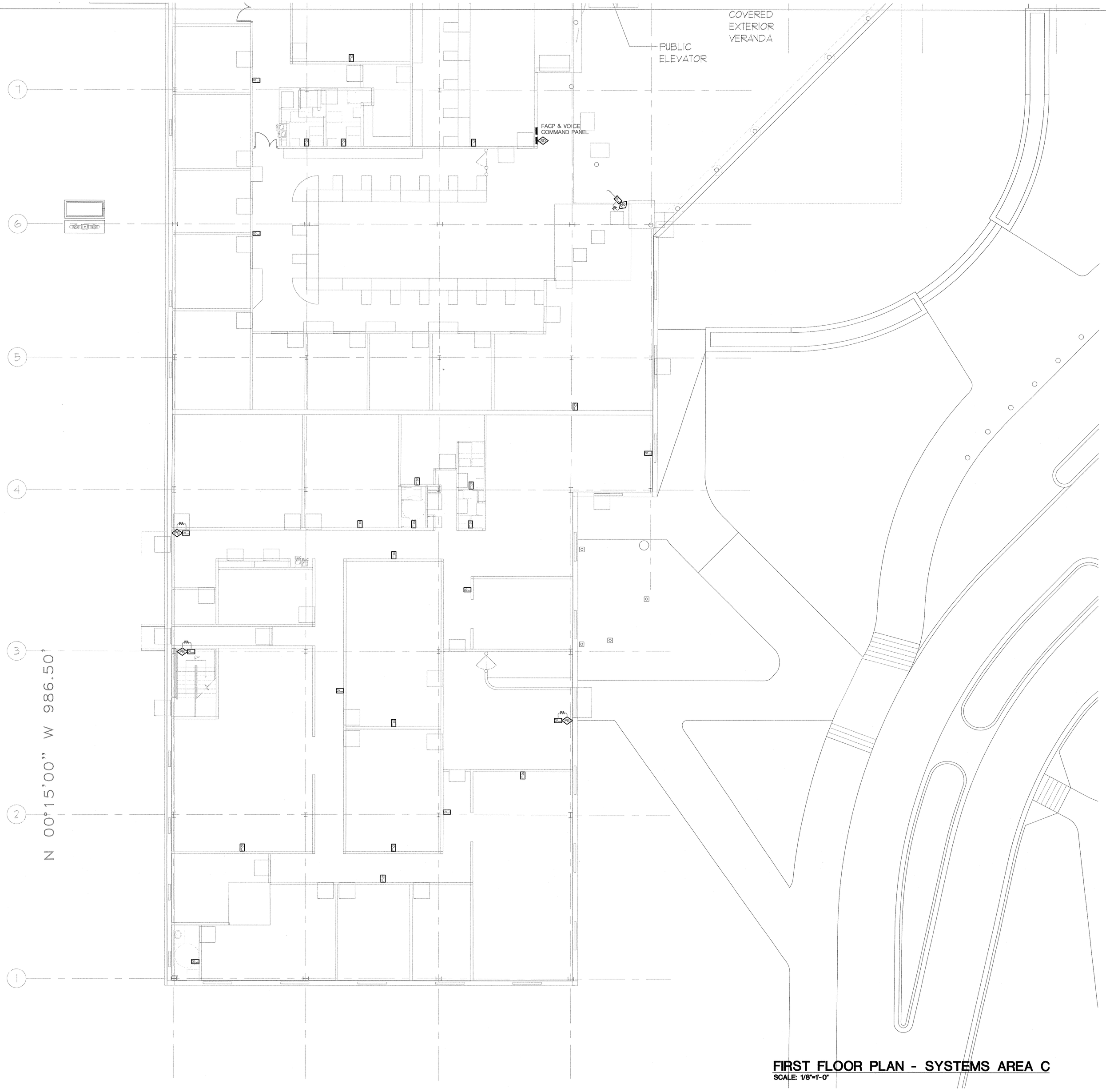
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B
ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.1B



FIRST FLOOR PLAN - SYSTEMS AREA C

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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(813) 935-2797 (FAX)
EMAIL: CEGIPTA@TAMPABAY.RR.COM
WEB SITE: WWW.CEGIFLORIDA.COM
C.O.A. # EB 0007712

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

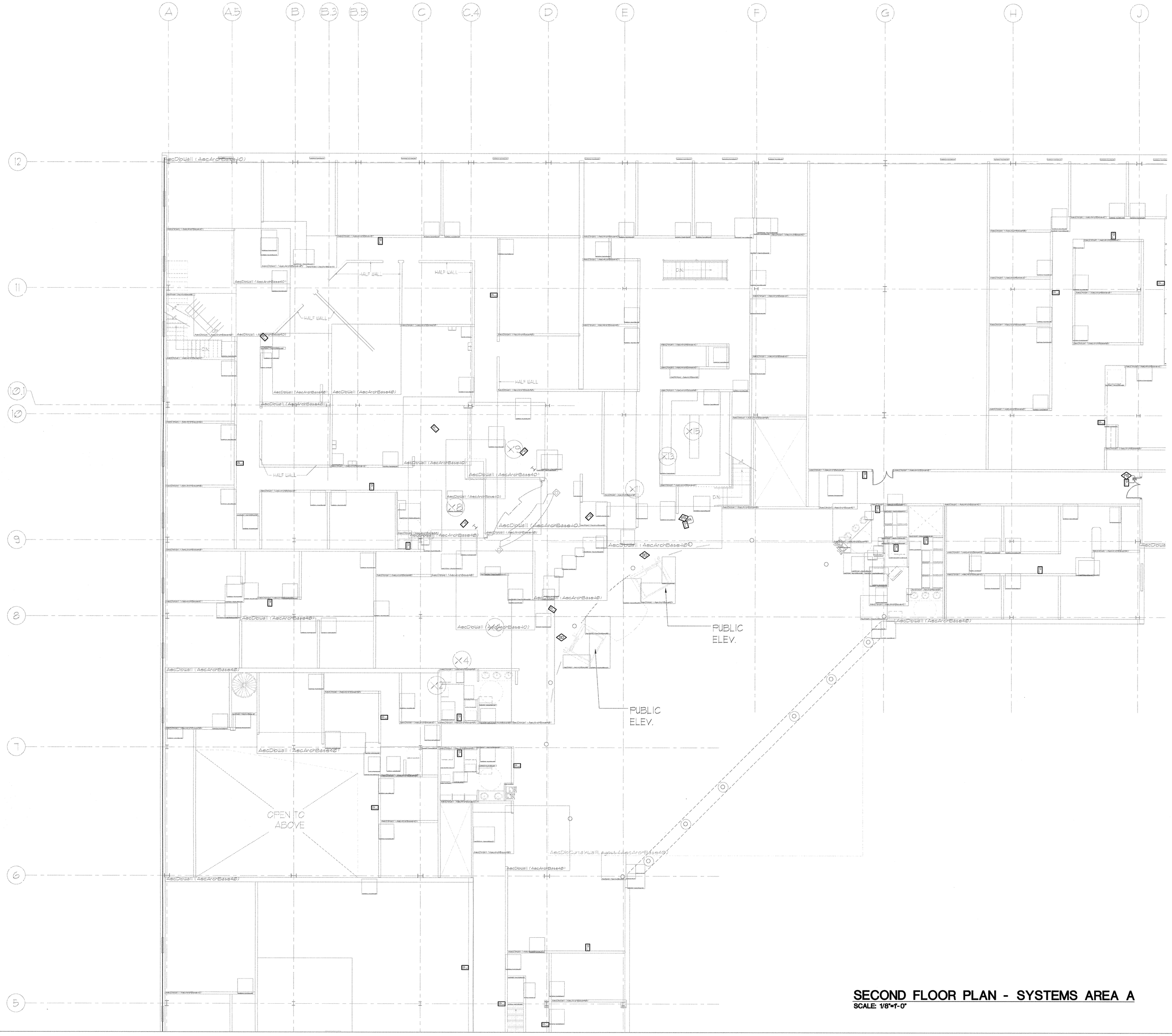
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C
ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.1C



SECOND FLOOR PLAN - SYSTEMS AREA A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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813.908.0788
813.908.0789 (FAX)
EMAIL: CEGITAMPA@TEC.RR.COM
WEBSITE: CEGIFLORIDA.COM
CA # EB-0007721

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

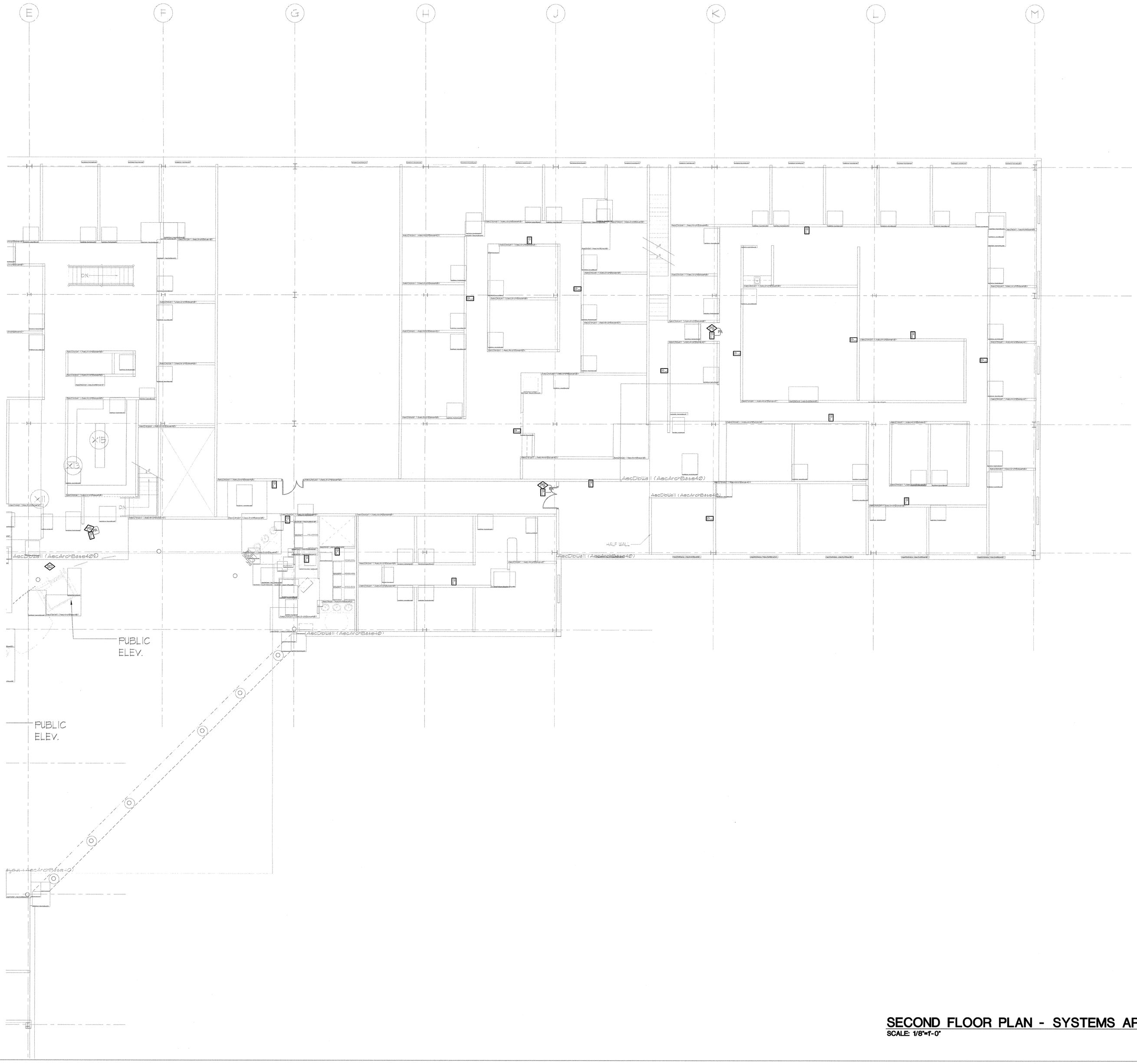
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE A ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.2A



SECOND FLOOR PLAN - SYSTEMS AREA B

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-21
DESIGN DEVELOPMENT	WHP	BB	06-04-21
DD OWNER REVIEW	WHP	BB	08-09-21
75% OWNER REVIEW	WHP	BB	11-16-21
----	-	-	----

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FAX: (850) 230-3584
Commission Number: 06318

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813.558.9799 (FAX)
EMAIL: CEGITAMPA@AOL.COM
CERTIFICATE OF AUTHORIZATION
COA # EB-0007721

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

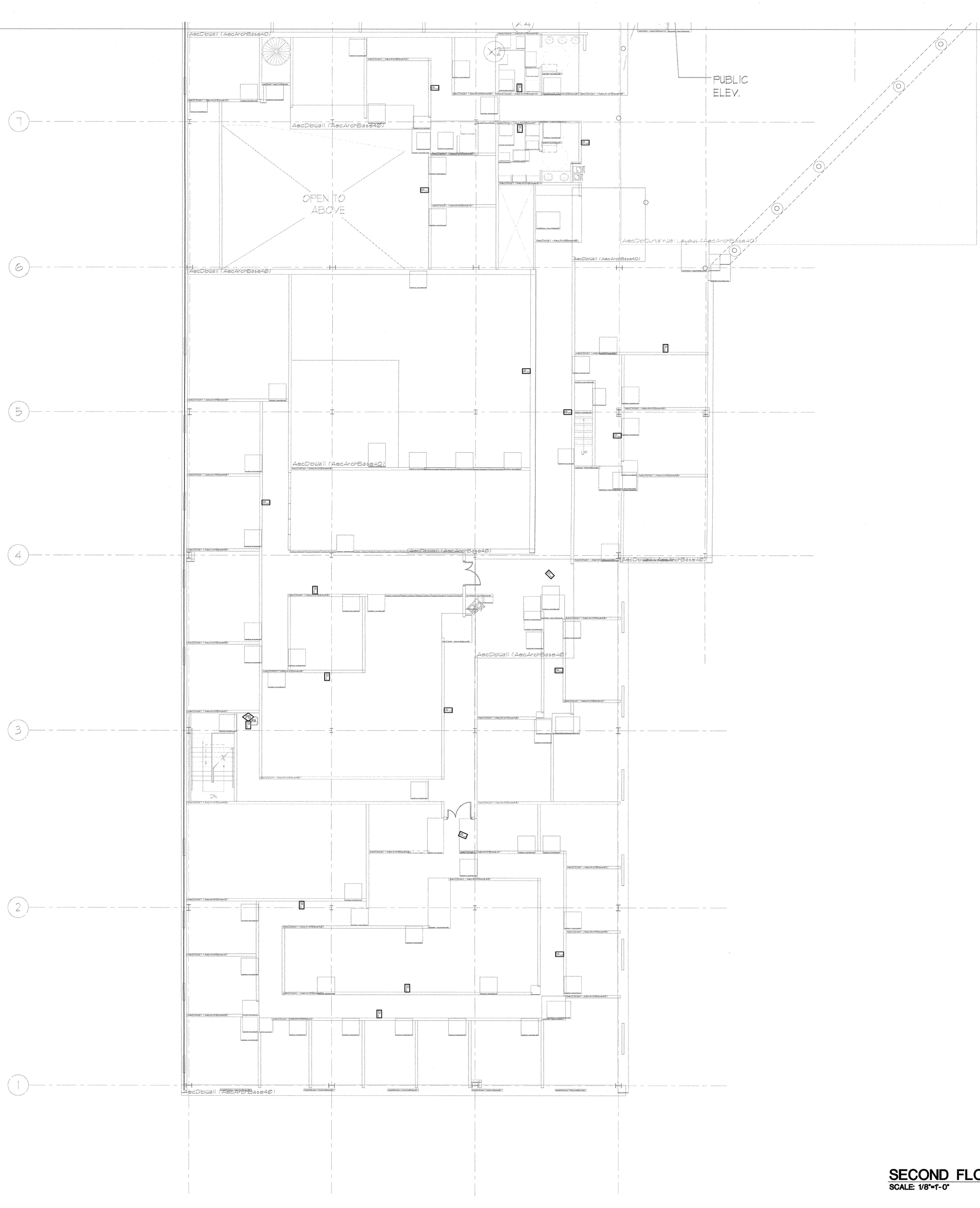
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B
ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.2B



SECOND FLOOR PLAN - SYSTEMS AREA C

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-28-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

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FAX: (850) 230-3584
Commission Number: 06318

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813.935.2763 (FAX)
EMAIL: CEGMTA@MSN.COM
WWW.CEGINTERNATIONAL.COM
COA # EB 0007721
CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE C
ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.2C

A A.5 B B.3 B.5 C C.4 D E F G H J

12 11 10 9 8 7 6 5

UNFINISHED
3018
--- SF

MECH. MEZZ.

X9 X15 X13 X11 X8 X12 X4 X2

RR 306 28 SF

RR 307 40 SF

STO 3026 45 SF

3028 48 SF

OFFICE 3012 179 SF

STAIR 321 68 SF

OFFICE 3010 120 SF

CONF. 3009 400 SF

CORRIDOR 3013 --- SF

CORRIDOR 3014 --- SF

CONF. 3025 52 SF

STO 3024 40 SF

OFFICE 3003 125 SF

MECH. 3001 310 SF

OFFICE 3002 245 SF

OPEN TO BELOW

PUBLIC ELEV.

TO CAGED STORAGE

UNFINISHED 3015 --- SF

PUBLIC ELEV.

MECH. MEZZ.

MEZZANINE
1,469 S.F.

MEZZANINE
2,236 S.F.

THIRD FLOOR PLAN - SYSTEMS AREA A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-21
DESIGN DEVELOPMENT	WHP	BB	06-06-21
DD OWNER REVIEW	WHP	BB	08-06-21
75% OWNER REVIEW	WHP	BB	11-16-21
----	-	-	----

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Commission Number: 06318

CONSULTANTS:

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8940 NORTH FLORIDA AVE.
TAMPA, FLORIDA 33604
813.935.0796
EMAIL: CEGITAMPA@AOL.COM
FED ID: 59-3344334
CDA: EB-0007212

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

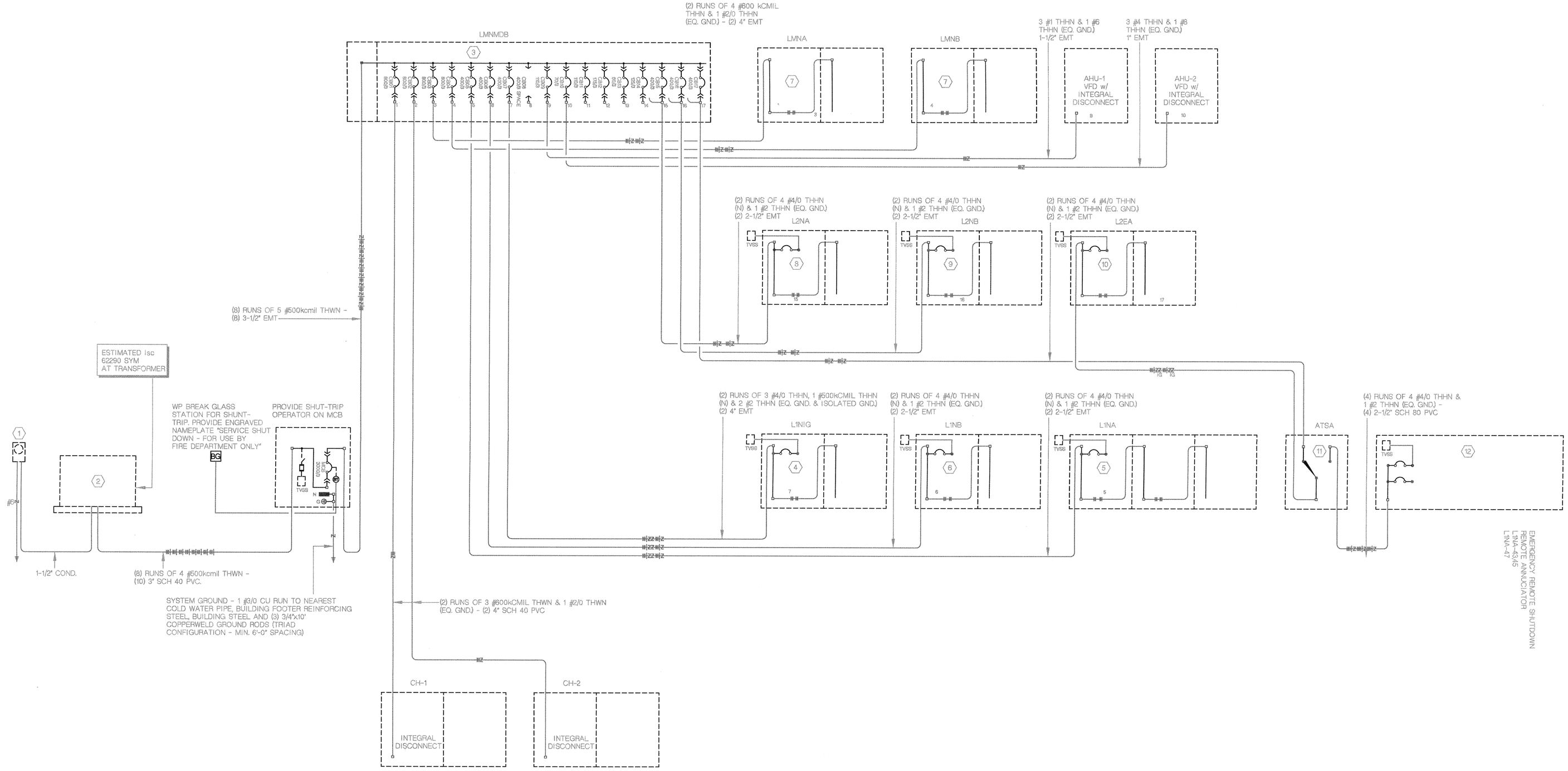
PANAMA CITY, FLORIDA

SHEET TITLE:

THIRD FLOOR ZONE A
ELECTRICAL SYSTEMS

SHEET NUMBER:

E4.3A



ELECTRICAL RISER DIAGRAM
N.T.S

RISER LEGEND:

1. METER - VERIFY EXACT REQUIREMENTS WITH POWER COMPANY
2. POWER COMPANY TRANSFORMER - 208Y/120V, 3-PHASE, 4-WIRE. VERIFY EXACT REQUIREMENTS AND LOCATION WITH POWER COMPANY PRIOR TO SUBMITTING BID.
3. MAIN CIRCUIT BREAKER MCB - 3000A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MOUNTED IN NEMA 3R ENCLOSURE. MAIN CIRCUIT BREAKER SHALL BE GE SPECTRA SERIES. MAIN CIRCUIT BREAKER IN SHALL HAVE 65kAIC MINIMUM RATING. CIRCUIT BREAKER SHALL BE SERVICE ENTRANCE RATED. PROVIDE FACTORY INSTALLED TVSS w/FUSED DISCONNECT SWITCH.
4. MAIN SWITCHBOARD LMNMDP - 3000A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MOUNTED IN NEMA 1 ENCLOSURE. SWITCHBOARD SHALL BE GE SPECTRA SERIES SWITCHBOARD. CIRCUIT BREAKERS IN SWITCHBOARD SHALL HAVE 65kAIC MINIMUM RATING. SWITCHBOARD SHALL BE SERVICE ENTRANCE RATED. SEE CIRCUIT SCHEDULE FOR CB TYPES.
5. PANELBOARD L1NIG - 400A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, ISOLATED GROUND BAR, MLO, 65kAIC RATED. (2) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
6. PANELBOARD L1NA - 400A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, 65kAIC RATED. (3) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
7. PANELBOARD L1NB - 400A, 208Y/120V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, 65kAIC RATED. (2) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
8. PANELBOARD LMNA & LMNB - 800A, 208Y/120V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, 65kAIC RATED. (2) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
9. PANELBOARD L2NA - 400A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, 65kAIC RATED. (3) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
10. PANELBOARD L2NB - 400A, 208Y/120V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, 65kAIC RATED. (2) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
11. PANELBOARD L2EA - 800A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, 65kAIC RATED. (3) SECTION. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
12. AUTOMATIC TRANSFER SWITCH ATSA - 800A, 3-POLE, 480Y/277V, SINGLE COIL, ELECTRICALLY OPERATED - MECHANICALLY HELD, PROGRAMMABLE EXERCISER, AUXILIARY CONTACTS, MAIN CONTACTS SILVER ALLOY, INDICATING LIGHTS FOR SWITCH POSITION 'NORMAL' EMERGENCY' AND 'STANDBY'. NEMA 1 ENCLOSURE, THREE-POSITION SWITCH, ARC CHUTES, LOGIC CONTROL: UTILITY VOLTAGE (DROPOUT 75-95% ADJ) (PICKUP 85-95% ADJ) (LINE INTERRUPT 0.1-10 SEC. ADJ.), ENGINE MINIMUM RUN 5-10 MIN. ADJ., ENGINE WARMUP 5 SEC.-3 MIN. ADJ., RETURN TO UTILITY 1-30 MIN. ADJ., ENGINE COOLDOWN 1-30 MIN. ADJ., STANDBY VOLTAGE 85-95% ADJ., STANDBY FREQUENCY 80-90% ADJ., TIME DELAY NEUTRAL 0.1-10 SEC. ADJ., TRANSFER ON EXERCISE ON/OFF SWITCH, WARMUP TIMER BYPASS ON/OFF SWITCH, TIME DELAY NEUTRAL BYPASS ON/OFF SWITCH, INPHASE MONITOR ON/OFF SWITCH, WITHSTAND CURRENT - 25,000A
13. GENERATOR - 120/208V, 350kW/437.5kVA 130deg. C. RISE, 3-PHASE, 4-WIRE, CATERPILLAR w/THE FOLLOWING:
    a) ONE YEAR WARRANTY
    b) UL 1446 RECOGNIZED CLASS H INSULATION GENERATOR
    c) ELECTRONIC ISOCHRONOUS GOVERNOR
    d) NATURAL GAS FUEL
    e) EMCP 3 CONTROL PANEL
    f) REMOTE ANNUCIATOR
    g) BATTERY RACK, CABLES, BATTERY, BATTERY HEATER, BATTERY CHARGER (EQUALIZE/FLOAT TYPE)
    h) GAS FUEL SYSTEM
    i) INTEGRAL VIBRATION ISOLATION
    j) OIL DRAIN EXTENSION
    k) WEATHER HOUSING WITH ROOF-MOUNTED CRITICAL SILENCER
    l) BLOCK HEATER
    m) GAS FILTER
    n) ENGINE FLUIDS
    o) LINE CIRCUIT BREAKER 650/3 w/ENCLOSURE (CICUIT BREAKER SHALL HAVE SAME FEATURES AS NORMAL SYSTEM BREAKERS)
    p) REMOTE EMERGENCY STOP KIT
    q) BATTERY CHARGER
    r) INTERNAL FLUORESCENT LIGHT - BATTERY POWERED
    PROVIDE COMPLETE INSTALLATION, STARTUP, AND TWO HOUR LOAD BANK TEST

ELECTRICAL RISER DIAGRAM
SCALE: NTS

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-07
DESIGN DEVELOPMENT	WHP	BB	04-26-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

JRA Architects, Inc.
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PHONE: (850) 236-9832
FAX: (850) 230-3594
Commission Number: 06318

CONSULTANTS:

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5966 NORTH FLORIDA AVE.
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813.935.0767(FAX)
EMAIL: CEGITAMPA@AT&T.BLACKBERRY.NET
COA # EB-0007712

CEGI PROJECT NO. 129

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ELECTRICAL RISER DIAGRAM

SHEET NUMBER:
E7.0

NEW - NORMAL BRANCH

PANEL: L1NMDB

Section 1 of 1

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: 3000/3 TP/LIT MLO: N/A | BLDG: SEE DRAWINGS MTD: FLOOR

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
M	CH-1	800	3	62.04			1				2	62.04			800	3	CH-2	M
M	SKH/LIT				62.04								62.04				SKH/LIT	M
M						62.04								62.04				M
T	LMNA	800	3				3				4				800	3	LMNB	T
T																		T
T																		T
T	L1NA	400	3	36.53			5				6	42.95			400	3	L1NB	T
T	SGH/LIT				36.44								41.49				SGH/LIT	T
T						36.37								43.29				T
T	L1NIG	400	3	39.00			7				8				400	3	SPACE	T
T	SGH/LIT				39.00													T
T						38.40												T
M	AHU-1	110	3	9.38			9				10	5.79			70	3	AHU-2	M
M	VFD - 25 HP				9.38								5.79				VFD - 15 HP	M
M	SPH/LIT					9.38								5.79			SPH/LIT	M
M	AHU-3	110	3	9.38			11				12				175	3	AHU-1 SH	H
M	VFD - 25 HP				9.38												50 kW	H
M	SPH/LIT					9.38											SPH/LIT	H
H	AHU-2 SH	60	3				13				14				125	3	AHU-3 SH	H
H	16 kW																34 kW	H
	TOTAL CONNECTED KVA			156.33	156.24	155.57						110.78	109.32	111.12				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.00	0.00	0.00
R	RECEPTACLE:	0.00	0.00	0.00
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	164.14	164.14	164.14
T	XFRMR./PANEL/ATS:	118.48	116.93	118.06

	PHASE A	PHASE B	PHASE C
TOTAL KVA	282.62	281.07	282.20
TOTAL AMPS	2355.17	2342.25	2351.67

ACTUAL BREAKER AMPS	2349.69
TOTAL KVA	845.89

CB DESIGNATIONS
GE SPECTRA RMS/DSS
COOLING/NO HEAT

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NEW - NORMAL BRANCH

PANEL: L1NB

Section 1 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
L	105 LCA P-1	20	1	1.79			1				2	1.32			20	1	105 LCA P-7	L
L	105 LCA P-2	20	1		1.79		3				4		1.34		20	1	105 LCA P-8	L
L	105 LCA P-3	20	1			1.79	5				6			1.59	20	1	105 LCA P-9	L
L	105 LCA P-4	20	1	1.42			7				8	1.46			20	1	105 LCA P-10	L
L	105 LCA P-5	20	1		1.48		9				10		1.44		20	1	105 LCA P-11	L
L	105 LCA P-6	20	1			1.44	11				12			1.01	20	1	105 LCA P-12	L
L	105 LCB P-1	20	1	1.42			13				14	1.11			20	1	105 LCB P-7	L
L	105 LCB P-2	20	1		1.48		15				16		1.32		20	1	105 LCB P-8	L
L	105 LCB P-3	20	1			1.44	17				18			1.48	20	1	105 LCB P-9	L
L	106 LCB P-4	20	1	1.49			19				20	1.30			20	1	109 LCB P-10	L
L	105 LCB P-5	20	1		1.13		21				22		1.09		20	1	109 LCB P-11	L
L	1,8,105C,D LCB P-	20	1			1.28	23				24			1.40	20	3	D/L'S LCC P-1	L
L	105 LCD P-1	20	1	0.71			25				26	1.48			20	1	110,A,13,17,18	L
L	107,A,108-A	20	1		1.65		27				28		1.41		20	1	120,22,29A	L
L	111	20	1			1.64	29				30			1.35	20	1	129,36A,B	L
L	130,34,36	20	1	1.49			31				32	1.58			20	1	101, A,B	L
L	130,34	20	1		1.48		33				34		1.60		20	1	115,23AB,24-27	L
L	131					1.40	35				36			1.59	20	1	104	L
L	100,02,32	20	1	1.35			37				38	1.24			20	1	103 LCF P-1, TL'	L
L	100 LCH P-1	20	1		1.34		39				40		1.05		20	1	133 LCE P-1	L
L	102,32 LCH P-2	20	1			1.54	41				42			1.07	20	1	133 LCE P-2	L
	TOTAL CONNECTED KVA			9.68	10.33	10.55						9.48	9.26	9.50				

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NEW - NORMAL BRANCH

PANEL: LMNA

Section 1 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 800/3 | BLDG: MEZZANINE MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
H	VAV-1-1	35	3	3.00			1				2	4.33			45	3	VAV-1-2	H
H					3.00						4		4.33					H
H						3.00	5				6			4.33				H
H	VAV-1-3	25	3	2.33			7				8	3.33			35	3	VAV-1-4	H
H					2.33		9				10		3.33					H
H						2.33	11				12			3.33				H
H	VAV-1-5	45	3	4.33			13				14	3.67			40	3	VAV-1-6	H
H					4.33		15				16		3.67					H
H						4.33	17				18			3.67				H
H	VAV-1-7	45	3	4.00			19				20	2.33			25	3	VAV-1-8	H
H					4.00		21				22		2.33					H
H						4.00	23				24			2.33				H
H	VAV-1-9	25		2.33			25				26	3.67			40	3	VAV-1-10	H
H					2.33		27				28		3.67					H
H						2.33	29				30			3.67				H
H	VAV-1-11	45	3	4.33			31				32	2.00			25	3	VAV-1-12	H
H					4.33		33				34		2.00					H
H						4.33	35				36			2.00				H
H	VAV-1-13	35	3	3.00			37				38	2.33			25	3	VAV-1-14	H
H					3.00		39				40		2.33					H
H						3.00	41				42			2.33				H
	TOTAL CONNECTED KVA			23.33	23.33	23.33						21.67	21.67	21.67				

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NEW - NORMAL BRANCH

PANEL: L1NA

Section 1 of 3

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	100,03A,05	20	1	0.72			1				2	0.72			20	1	105	R
R	100,05	20	1		0.72		3				4		0.72		20	1	105	R
R	100,05,05E	20	1			0.72	5				6			0.72	20	1	105	R
R	105	20	1	0.72			7				8	0.90			20	1	101,01A,05	R
R	105	20	1		0.72		9				10		0.90		20	1	101A,05,05D	R
R	105	20	1			0.72	11				12			0.90	20	1	101A,05,05C	R
R	105,07	20	1	0.90			13				14	0.90			20	1	107,07A,09	R
R	105,05,07,09	20	1		0.90		15				16		0.90		20	1	107,07A,09	R
R	105,07,09	20	1			0.90	17				18			0.90	20	1	107,07A	R
R	108,09	20	1	0.90			19				20	0.90			20	1	109,09A,11	R
R	108,09	20	1		0.90		21				22		0.90		20	1	109,09A	R
R	108,09,09A	20	1			0.90	23				24			0.90	20	1	109,09A	R
R	111,13,14	20	1	0.90			25				26	1.20			20	1	113	T
R	111,13	20	1		0.90		27				28		1.20		20	1	113	T
R	111,14	20	1			0.72	29				30			1.20	20	1	113	T
R	110,16	20	1	0.90			31				32	1.20			20	1	113	T
R	110	20	1		0.90		33				34		1.20		20	1	113	T
R	110	20	1			0.90	35				36			1.20	20	1	113	T
R	110,18,19,24	20	1	0.90			37				38	0.90			20	1	105,05AB,19,24	R
R	105,10,18,24	20	1		0.90		39				40		0.90		20	1	105,05AB,19,24	R
R	110,18,24	20	1			0.90	41				42			0.90	20	1	105,05AB,19,24	R
	TOTAL CONNECTED KVA			5.94	5.94	5.94						6.72	6.72	6.72				

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NEW - NORMAL BRANCH

PANEL: L1NB

Section 2 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
L	135 LCG P-1	20	1	1.44			43				44	1.55			20	1	135 LCG P-7	L
L	135 LCG P-2	20	1		1.40		45				46		1.05		20	1	135 LCG P-8	L
L	135 LCG P-3	20	1			1.40	47				48			1.61	20	1	135 LCG P-9	L
L	135 LCG P-4	20	1	1.44			49				50	1.31			20	1	135 LCG P-10	L
L	135 LCG P-5	20	1		1.48		51				52		1.55		20	1	135 A&B LCG P-11	L
L	135 LCG P-6	20	1			1.36	53				54			0.54	20	1	TL's, 135 LCG P-1	L
T	CONTACTORS	20	1	0.60			55				56	1.64			20	1	MEZZ.	L
W	EWH-1	35	2		3.00		57				58		0.94		20	1	CORRIDORS	L
W						3.00	59				60			0.97	20	1	CORRIDORS	L
W	EWH-2	35	2	3.00			61				62							L
W					3.00		63				64		0.50		20	1	LCPE P1	L
W	EWH-3	60	2			4.50	65				66			1.35	20	2	LCPE P-2,3	L
W				4.50			67				68	1.35						L
M	CIRC. PUMP	15	1		0.53		69				70		1.35		20	2	LCPE P-4,5	L
	SPACE						71				72			1.35				L
	SPACE						73				74				20	1	SPARE	
	SPACE						75				76				20	1	SPARE	
	SPACE						77				78				20	1	SPARE	
	SPACE						79				80						SPACE	
	SPACE						81				82						SPACE	
	SPACE						83				84						SPACE	
	TOTAL CONNECTED KVA			10.98	9.42	10.26						5.84	5.39	5.82				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	34.85	34.82	35.79
R	RECEPTACLE:	0.00	0.00	0.00
W	WATER HEATER:	7.50	6.00	7.50
M	MOTORS/HVAC/FAN:	0.00	0.68	0.00
T	XFRMR/PANEL/ATS:	0.60	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	42.95	41.49	43.29
TOTAL AMPS	357.90	345.72	360.71

ACTUAL BREAKER AMPS	354.77
TOTAL KVA	127.72

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NEW - NORMAL BRANCH

PANEL: LMNA

Section 2 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 800/3 | BLDG: MEZZANINE MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
H	VAV-1-15	25	3	2.33			43				44	2.67			30	3	VAV-1-16	H
H					2.33		45				46		2.67					H
H						2.33	47				48			2.67				H
H	VAV-1-17	30	3	2.67			49				50	4.00			45	3	VAV-1-18	H
H					2.67		51				52		4.00					H
H						2.67	53				54			4.00				H
H	VAV-1-19	25	3	2.00			55				56	2.67			30	3	VAV-2-1	H
H					2.00		57				58		2.67					H
H						2.00	59				60			2.67				H
H	VAV-2-2	35	3	3.00			61				62	2.33			25	3	VAV-2-3	H
H					3.00		63				64		2.33					H
H						3.00	65				66			2.33				H
H	VAV-2-4	30	3	2.67			67				68	1.33			15	3	VAV-2-5	H
H					2.67		69				70		1.33					H
H						2.67	71				72			1.33				H
H	VAV-2-6	15	3	1.33			73				74	2.67			30	3	VAV-2-7	H
H					1.33		75				76		2.67					H
H						1.33	77				78			2.67				H
H	VAV-2-8	40	3	3.67			79				80	1.00			15	3	VAV-2-9	H
H					3.67		81				82		1.00					H
H						3.67	83				84			1.00				H
	TOTAL CONNECTED KVA			17.67	17.67	17.67						16.67	16.67	16.67				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	79.33	79.33	79.33
L	LIGHTING:	0.00	0.00	0.00
R	RECEPTACLE:	0.00	0.00	0.00
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.00	0.00	0.00
T	XFRMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	79.33	79.33	79.33
TOTAL AMPS	661.10	661.10	661.10

ACTUAL BREAKER AMPS	661.10
TOTAL KVA	238.00

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NEW - NORMAL BRANCH

PANEL: L1NA

Section 2 of 3

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	100,01,01B,05	20	1	0.90			43				44	0.90			20	1	101,27,31	R
R	100,01,01B	20	1		0.90		45				46		0.90		20	1	101,02,27,31	R
R	100,01,01B	20	1			0.90	47				48			0.90	20	1	101,02,23,27,31	R
R	121,23A,25,26,31	20	1	0.90			49				50	0.90			20	1	120,22,23B	R
R	123,26,27,31	20	1		1.08		51				52		0.90		20	1	120,21,22,29A	R
R	125,26,31	20	1			0.90	53				54			0.90	20	1	120,22	R
T	128	20	1	1.80			55				56	1.80			20	1	128	T
T	128	20	1		1.80		57				58		1.80		20	1	128	T
T	128	20	1			1.80	59				60			1.80	20	1	128	T
T	124	20	1	1.20			61				62	1.08			20	1	121,22,29,31	R
T	124	20	1		1.20		63				64		0.90		20	1	121,29,29A,30,31	R
T	122,24	20	1			1.20	65				66			1.08	20	1	102,21,29,31	R
R	129,29A,36A	20	1	0.90			67				68	0.90			20	1	135A,36,36A	R
R	129,36A	20	1		0.90		69				70		0.90		20	1	136,36A	R
R	129,36A	20	1			0.90	71				72			0.90	20	1	135B,36,36A	R
R	102,30,30A,34	20	1	0.90			73				74	0.90			20	1	133,34	R
R	130,34	20	1		0.90		75				76		0.90		20	1	132,33,34	R
R	130,34	20	1			0.90	77				78			0.90	20	1	133,34,35	R
R	134,34A	20	1	0.90			79				80	0.72			20	1	135	R
R	134,34A,35	20	1		0.90		81				82		0.72		20	1	135	R
R	134,34A	20	1			0.90	83				84			0.72	20	1	135	R
	TOTAL CONNECTED KVA			7.50	7.68	7.50						7.20	7.02	7.20				

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NEW - NORMAL BRANCH

PANEL: L1NIG

Section 1 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
T	105	20	1	1.80			1				2	1.80			20	1	105	T
T	105	20	1		1.80		3				4		1.80		20	1	105	T
T	105	20	1			1.80	5				6			1.80	20	1	105	T
T	105	20	1	1.80			7				8	1.80			20	1	105	T
T	105	20	1		1.80		9				10		1.80		20	1	105	T
T	105	20	1			1.80	11				12			1.80	20	1	105	T
T	106	20	1	1.80			13				14	1.80			20	1	106	T
T	106	20	1		1.80		15				16		1.80		20	1	106	T
T	106	20	1			1.80	17				18			1.80	20	1	106	T
T	106	20	1	1.80			19				20	1.80			20	1	106	T
T	106	20	1		1.80		21				22		1.80		20	1	106	T
T	106,07,09	20	1			1.80	23				24			1.80	20	1	106	T
T	106,07,09	20	1	1.80			25				26	1.80			20	1	109,09-A,111	T
T	111	20	1		1.80		27				28		1.80		20	1	109,09-A,111	T
T	111	20	1			1.80	29				30			1.80	20	1	109,09-A,111	T
T	110-A	20	1	1.80			31				32	1.80			20	1	110-A	T
T	110-A	20	1		1.80		33				34		1.80		20	1	110-A	T
T	110-A	20	1			1.80	35				36			1.80	20	1	110-A	T
T	110-A	20	1	1.80			37				38	1.80			20	1	122	T
T	110-A	20	1		1.80		39				40		1.80		20	1	122	T
T	110-A	20	1			1.80	41				42			1.20	20	1	108,118	T
	TOTAL CONNECTED KVA			12.60	12.60	12.60						12.60	12.60	12.00				

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NEW - NORMAL BRANCH

PANEL: LMNB

Section 1 of 2

A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 800/3 | BLDG: MEZZANINE MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
H	VAV-2-10	35	3	3.33			1				2	3.33			35	3	VAV-2-11	H
H					3.33		3				4		3.33					H
H						3.33	5				6			3.33				H
H	VAV-2-12	20	3	1.67			7				8	1.00			15	3	VAV-2-13	H
H					1.67		9				10		1.00					H
H						1.67	11				12			1.00				H
H	VAV-2-14	25	3	2.33			13				14	1.33			15	3	VAV-2-15	H
H					2.33		15				16		1.33					H
H						2.33	17				18			1.33				H
H	VAV-2-16	15	3	1.33			19				20	1.33			15	3	VAV-3-1	H
H					1.33		21				22		1.33					H
H						1.33	23				24			1.33				H
H	VAV-3-2	15	3	1.33			25				26	3.67			40	3	VAV-3-3	H
H					1.33		27				28		3.67					H
H						1.33	29				30			3.67				H
H	VAV-3-4	30	3	2.67			31				32	1.33			15	3	VAV-3-5	H
H					2.67		33				34		1.33					H
H						2.67	35				36			1.33				H
H	VAV-3-6	45	3	4.33			37				38	1.33			15	3	VAV-3-7	H
H					4.33		39				40		1.33					H
H						4.33	41				42			1.33				H
	TOTAL CONNECTED KVA			17.00	17.00	17.00						13.33	13.33	13.33				

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NEW - NORMAL BRANCH

PANEL: L1NA

Section 3 of 3

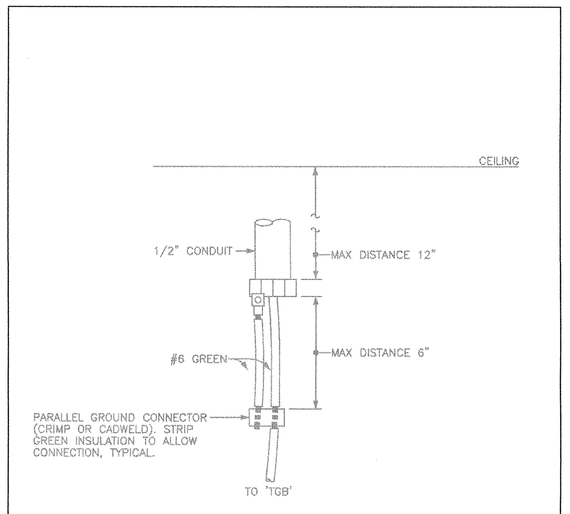
A.I.C.: 65,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 400/3 | BLDG: SEE DRAWINGS MTD: SURFACE

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	A	B	C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	PREMARKS	S
R	135	20	1	0.72			85				86	0.90			20	1	103,04	R
R	135	20	1		0.72		87				88		0.90		20	1	103,04	R
R	135	20	1			0.72	89				90			0.90	20	1	130B,04	R
T	105 COPIER	20	1	1.20			91				92	0.53			15	1	EF-1-1	M
T	100 COPIER	20	1		1.20		93				94		0.53		15	1	EF-2-1	M
T	100 COPIER	20	1			1.20	95				96			0.53	15	1	EF-2-2	M
T	135 COPIER	20	1	1.20			97				98	0.09			15	1	EF-2-3	M
T	SECURITY SYS.	20	1		0.60		99				100		0.18		15	1	EF-2-4	M
T	FACP-LOCKING CB	20	1			0.60	101				102			0.11	15	1	EF-2-5	M
	SPARE	20	1				103				104	0.70			20	1	PTAC-1	H
M	EDF	20	1		0.60		105				106		0.53		15	1	EF-3-2	M
M	EDF	20	1			0.60	107				108			0.53	15	1	EF-4-1	M
	TVSS	30	3				109				110	1.31			20	1	PTAC-1	H
							111				112		1.65		20	2	FCU-1	H
							113				114			1.65				H
M	AHU-4	35	3	2.10			115				116	0.60			20	1	122	R
M					2.10		117				118		0.60		20	1	EDF	
M						2.10	119				120			0.60	20	1	SPARE	
M	P-1	100	3	7.45			121

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

MARK	VOLTAGE	PHASE	PANEL-CIRCUIT	WIRE-CONDUIT	DISCONNECT	HP/kW	STARTER
VAV-1-1	208	3	LMNA-1,3,5	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	9.0 kW	N/A
VAV-1-2	208	3	LMNA-2,4,6	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-1-3	208	3	LMNA-7,9,11	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-1-4	208	3	LMNA-8,10,12	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	10.0 kW	N/A
VAV-1-5	208	3	LMNA-13,15,17	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-1-6	208	3	LMNA-14,16,18	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-1-7	208	3	LMNA-19,21,23	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	12.0 kW	N/A
VAV-1-8	208	3	LMNA-20,22,24	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-1-9	208	3	LMNA-25,27,29	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-1-10	208	3	LMNA-26,28,30	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-1-11	208	3	LMNA-33,33,35	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-1-12	208	3	LMNA-32,34,36	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-1-13	208	3	LMNA-37,39,41	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	9.0 kW	N/A
VAV-1-14	208	3	LMNA-38,40,42	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-1-15	208	3	LMNA-43,45,47	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-1-16	208	3	LMNA-44,46,48	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-1-17	208	3	LMNA-49,51,53	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-1-18	208	3	LMNA-50,52,54	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	12.0 kW	N/A
VAV-1-19	208	3	LMNA-55,57,59	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	6.0 kW	N/A
VAV-2-1	208	3	LMNA-56,58,60	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-2-2	208	3	LMNA-61,63,65	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	9.0 kW	N/A
VAV-2-3	208	3	LMNA-62,64,66	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-2-4	208	3	LMNA-67,69,71	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-2-5	208	3	LMNA-68,70,72	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-2-6	208	3	LMNA-73,75,77	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-2-7	208	3	LMNA-74,76,78	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-2-8	208	3	LMNA-79,81,83	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-2-9	208	3	LMNA-80,82,84	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	3.0 kW	N/A
VAV-2-10	208	3	LMNB-1,3,5	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	10.0 kW	N/A
VAV-2-11	208	3	LMNB-2,4,6	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	10.0 kW	N/A
VAV-2-12	208	3	LMNB-7,9,11	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	5.0 kW	N/A
VAV-2-13	208	3	LMB-8,10,12	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	3.0 kW	N/A
VAV-2-14	208	3	LMNB-13,15,17	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	7.0 kW	N/A
VAV-2-15	208	3	LMNB-14,16,18	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-2-16	208	3	LMNB-19,21,23	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-1	208	3	LMNB-20,22,24	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-2	208	3	LMNB-25,27,29	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-3	208	3	LMNB-26,28,30	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-3-4	208	3	LMNB-31,33,35	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-3-5	208	3	LMNB-32,34,36	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-6	208	3	LMNB-37,39,41	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-3-7	208	3	LMNB-38,40,42	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-8	208	3	LMNB-43,45,47	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-3-9	208	3	LMNB-44,46,48	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	12.0 kW	N/A
VAV-3-10	208	3	LMNB-49,51,53	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
VAV-3-11	208	3	LMNB-50,52,54	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	12.0 kW	N/A
VAV-3-12	208	3	LMNB-55,57,59	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	10.0 kW	N/A
VAV-3-13	208	3	LMNB-56,58,60	3 #6 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	17.0 kW	N/A
VAV-3-14	208	3	LMNB-61,63,65	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-3-15	208	3	LMNB-62,64,66	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-3-16	208	3	LMNB-67,69,71	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	13.0 kW	N/A
VAV-3-17	208	3	LMNB-68,70,72	3 #10 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	8.0 kW	N/A
VAV-4-1	208	3	LMNB-73,75,77	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-4-2	208	3	LMNB-74,76,78	3 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	11.0 kW	N/A
VAV-4-3	208	3	LMNB-79,81,83	3 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	4.0 kW	N/A
EF-1-1	120	1	L1NA-92	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL
EF-2-1	120	1	L1NA-94	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL
EF-2-2	120	1	L1NA-96	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL
EF-2-3	120	1	L1NA-98	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	90W	N/A
EF-2-4	120	1	L1NA-100	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	179W	N/A
EF-2-5	120	1	L1NA-102	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	INTEGRAL	112W	N/A
EF-3-1	120	1	L1NA-104	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/4HP	FRACTIONAL
EF-3-2	120	1	L1NA-106	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL
EF-4-1	120	1	L1NA-108	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL
PTAC-1	120	1	L1NA-110	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	20/1 MTR RATED	-	N/A
FCU-1	208	1	L1NA-112,114	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	20/2 MTR RATED	-	N/A
EWH-1	208	1	L1NB-57,59	2 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	250/60/2/NF	6 kW	N/A
EWH-2	208	1	L1NB-61,63	2 #8 THHN & 1 #10 THHN (EQ. GND.) - 3/4" EMT	250/60/2/NF	6 kW	N/A
EWH-3	208	1	L1NB-65,67	2 #6 THHN & 1 #6 THHN (EQ. GND.) - 3/4" EMT	250/60/2/NF	9 kW	N/A
PUMP	120	1	L1NB-69	2 #12 THHN & 1 #12 THHN (EQ. GND.) - 3/4" EMT	N/A	1/6HP	FRACTIONAL

NOTE: REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. WIRE AND CONNECT EQUIPMENT AS REQUIRED BY APPROVED MECHANICAL SHOP DRAWINGS

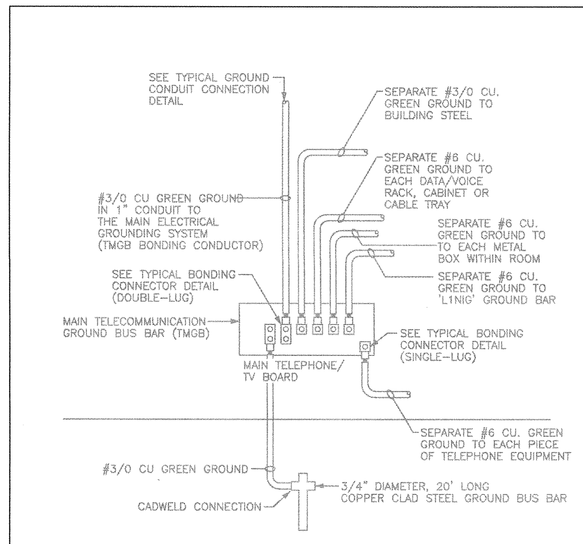


GROUND CONDUIT CONNECTION

GROUNDING NOTES:

1. BOND ALL METAL PARTS AND CONDUITS. PROVIDE PIPE CLAMPS AND TERMINALS. ALL MATERIALS SHALL BE COPPER. BONDING CABLE SHALL BE #6 COPPER INSULATED GREEN GROUNDING CONDUCTOR.
2. CONNECT ALL METALLIC OBJECTS ROOM TO THE TGB, INCLUDING BUILDING STEEL, ELECTRICAL PANELS AND RACKS.
3. TMGB BONDING CONDUCTOR SHALL BE CONTINUOUS TO ITS FINAL TERMINATION. CONNECTIONS MUST BE SERVICEABLE FOR INSPECTION.
4. ALL GROUNDING WIRES SHALL TERMINATE WITH A 1-WAY CRIMP CONNECTOR. USE MINIMUM #6 GREEN. RUN CABLE AS STRAIGHT AND SHORT AS POSSIBLE.
5. SCRAPE ALL PAINTS OR SEALANTS AT CONNECTION POINTS OF ALL METALLIC INTERCONNECTIONS (I.E.: PATCH PANELS, RAILS, CABINETS, ETC.)
6. PROVIDE PHONETIC LABEL AT ALL PANEL CONNECTIONS, BUS BAR CONNECTIONS AND TGB/ SERVICE LOCATIONS. LABEL TO READ "IF THIS CONNECTION IS LOOSE OR DISCONNECT FOR SERVICE CONTACT 2CPS TELECOMMUNICATION MANAGER". LABEL TO HAVE RED BACKGROUND AND WHITE LETTERING.
7. ALL CONNECTIONS TO GROUND ROD SHALL BE CADWELDED.

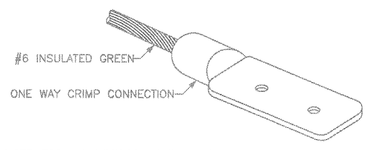
GROUNDING NOTES



TYPICAL TELECOMMUNICATION ROOM GROUNDING DIAGRAM

NOTE: MOUNT AT 24" A.F.F.
ALL CONNECTIONS TO USE THROUGH BOLT WITH COMPRESSION WASHER AND NUT (OR CADWELD).

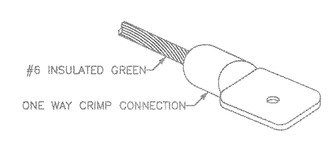
TELECOMMUNICATION GROUND BUS BAR



NOTE: FOR ALL INTERCONNECTIONS BETWEEN TELECOMMUNICATION GROUND BUS BARS, PROVIDE CADWELD OR DOUBLE-LUG CONNECTION.

(DOUBLE-LUG)

BONDING CONNECTOR DETAIL



(SINGLE-LUG)

BONDING CONNECTOR DETAIL

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:
CONSULTING ENGINEERING GROUP INC.
INTERNATIONAL TAMPA FLORIDA
CEGI PROJECT NO. 129
FAX NORTH FLORIDA AVE. TAMPA, FLORIDA 813.935.0794 EMAIL: CEGITAMPA@YAHOO.COM STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION COA # EB-0007712

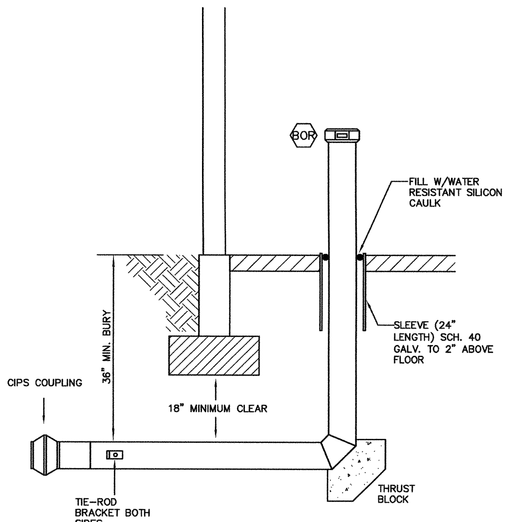
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ELECTRICAL SCHEDULES & DETAILS

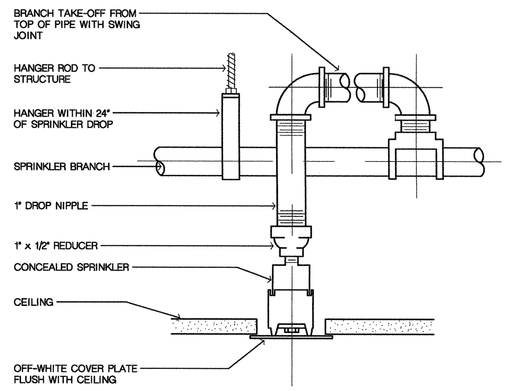
SHEET NUMBER:
E7.2

6" & 4" AMES IN-BUILDING RISER



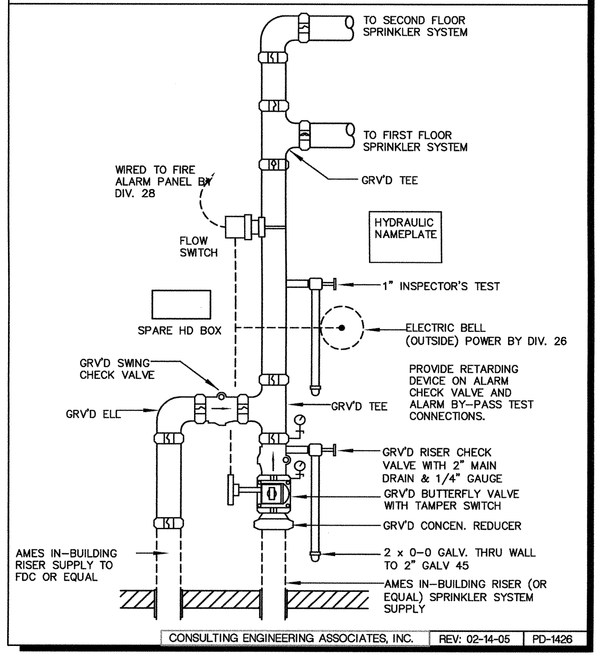
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TYPICAL CONCEALED SPRINKLER



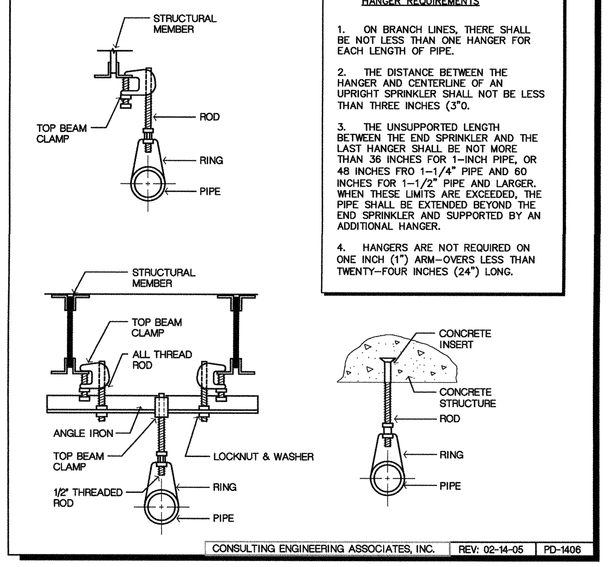
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RISER DETAIL



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1426

HANGERS



HANGER REQUIREMENTS

1. ON BRANCH LINES, THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH LENGTH OF PIPE.

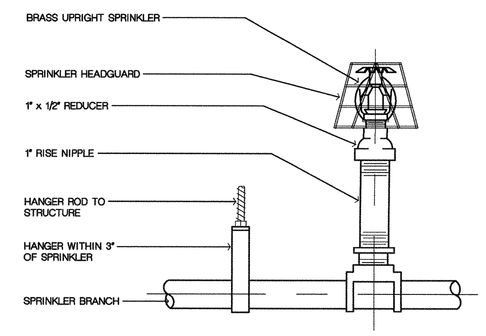
2. THE DISTANCE BETWEEN THE HANGER AND CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN THREE INCHES (3"0.

3. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL BE NOT MORE THAN 36 INCHES FOR 1-INCH PIPE, OR 48 INCHES FRO 1-1/4" PIPE AND 60 INCHES FOR 1-1/2" PIPE AND LARGER. WHEN THESE LIMITS ARE EXCEEDED, THE PIPE SHALL BE EXTENDED BEYOND THE END SPRINKLER AND SUPPORTED BY AN ADDITIONAL HANGER.

4. HANGERS ARE NOT REQUIRED ON ONE INCH (1") ARM-OVERS LESS THAN TWENTY-FOUR INCHES (24") LONG.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1406

TYPICAL UPRIGHT SPRINKLER



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1409

SPRINKLER SCHEDULE

SYMBOL	DESCRIPTION
⦿	1/2" RECESSED PENDENT, QR, WHITE FINISH, ORDINARY TEMPERATURE.
◁	1/2" RECESSED SIDEWALL, QR, WHITE FINISH, ORDINARY TEMPERTURE.
◀	1/2" BRASS SIDEWALL, QR, HIGH TEMPERATURE.
●	1/2" CONCEALED PENDENT, QR, WHITE, ORDINARY TEMPERATURE.
◯	1/2" UPRIGHT, QR,BRASS, ORDINARY TEMPERATURE

FIRE PROTCTION GENERAL NOTES

THE DESIGN DRAWINGS OF ALL CATEGORIES AND TRADES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL) AND ALL SPECIFICATIONS AND SHOP DRAWINGS MUST BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 105.13.4.4 OF THE FLORIDA BUILDING CODE AND 633 FLORIDA STATUTES.

FIRE SPRINKLER LEGEND

SYMBOL	DESCRIPTION
OR	– CONTROL VALVE W/TAMPER SWITCH
N	– CHECK VALVE
	– FLOW SWITCH
FDC	– FIRE DEPARTMENT CONNECTION
FVC	– FIRE VALVE CABINET
FDV	– STANDPIPE WITH FIRE DEPARTMENT VALVE
	– STANDPIPE WITH CONTROL VALVES AND DRAIN RISER
	– BACKFLOW PREVENTOR W/TAMPER SWITCHES
	– ROOF MANIFOLD W/ 2 FDV
	– HYDRAULIC REFERENCE NODE
	– NEW SPRINKLER PIPING
F.C.	– FLUSHING CONNECTION
	– CONNECT TO EXISTING
1	– REVISION REFERENCE
1 FP-1	– DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON

FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION WORK SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE 2004, NFPA VOLUMES 13 AND 24, UNDERWRITERS LABORATORY, FACTORY MUTUAL AND LOCAL CODES.

A) APPROVAL STAMP OF THE OWNER'S INSURANCE UNDERWRITER.

B) APPROVAL STAMP OF THE LOCAL FIRE MARSHALL.

C) PIPE CUTTING LENGTHS, NOMINAL PIPE DIAMETERS AND HANGER LOCATIONS.

E) PROVIDE LOCATIONS OF ALL SMOKE AND/OR FIRE WALLS WHICH FIRE PROTECTION PIPING PENETRATES. PROVIDE PENETRATION DETAIL SHOWING THE MAINTAINING OF THE INTEGRITY OF THE SMOKE/FIRED SAFED IN AN APPROVED MANNER WHEN PENETRATING WALLS AND FLOORS.

F) PROVIDE AUXILIARY DRAINS WITH GLOBE VALVES FOR ALL TRAPPED SECTIONS OF PIPING OVER FIVE (5) GALLONS.

3. PROVIDE A PERMANENTLY ATTACHED NAMEPLATE (OF A CORROSION RESISTANT MATERIAL) STATING THE DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM OR SONE THEREOF.

4. SIMULTANEOUS HOSE STREAM DEMAND SHOULD BE INCLUDED IN ALL CALCULATIONS, UNLESS SPECIFIED OTHERWISE.

5. ALL EQUIPMENT, DEVICES AND MATERIALS INCLUDED IN THE INSTALLATION SHOULD BE APPROVED OR LISTED BY UNDERWRITER'S LABORATORIES OR FACTORY MUTUAL.

6. CONSTRUCTION SCHEDULING SHOULD BE SUCH THAT WATER SUPPLY CONNECTION AND UNDERGROUND PIPING SHOULD BE INSTALLED, TESTED AND IN SERVICE AS SOON AS PRACTICALLY POSSIBLE, AND DEFINITELY BEFORE MOST OF THE BUILDING IS ENCLOSED. SPRINKLER INSTALLATION SHOULD BEGIN AS SOON AS ROOF FRAMING OR FLOOR(S) ARE COMPLETE.

7. TEST OF UNDERGROUND AND INSIDE PIPING, INCLUDING ALARM DEVICES AND DETECTION SYSTEMS, SHOULD BE SCHEDULED WITH THREE DAY PRIOR NOTIFICATION TO THE OWNER'S INSURANCE REPRESENTATIVE OR A QUALIFIED REPRESENTATIVE OF THE FACILITY PROTECTED, WITH TWO COPIES OF THE CONTRACTOR'S TEST CERTIFICATE COMPLETED AND MAILED TO THE DESIGNATED JOB CONSULTANT. REFFER TO NFPA 24 FOR PROPER TESTING OF UNDERGROUND JOINTS, SPECIALLY EXPOSED JOINTS DURING TESTING. ALSO HYDROSTATIC AND FLUSHING TESTING SHOULD INCLUDE RISER LATERALS AND HYDRANT FEEDS.

8. THE BIDDER IS REQUIRED, BEFORE SUBMITTING HIS PROPOSAL, TO VISIT THE SITE OF THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH THE NATURE AND EXTENT OF THE WORK AND ANY LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE DONE AND THE EQUIPMENT, MATERIALS AND LABOR REQUIRED TO EXAMINE CAREFULLY THE PLANS AND SPECIFICATIONS AND TO INFORM HIMSELF THOROUGHLY REGARDING ANY AND ALL CONDITIONS AND REQUIREMENTS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE PERFORMED UNDER THE CONTRACT. IGNORANCE OF THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATIONS AND RESPONSIBILITIES ASSUMED UNDER THE CONTRACT.

9. DEFLECTORS OF SPRINKLERS SHALL BE AT SUFFICIENT DISTANCES FROM CEILING OBSTRUCTIONS (SUCH AS SURFACE MOUNTED LIGHT FIXTURES) TO AVOID OBSTRUCTION OF THE SPRINKLER DISCHARGE PATTERN. OTHERWISE, THE SPACING OF SPRINKLERS ON OPPOSITE SIDES OF THE OBSTRUCTION AND THE DISTANCED SHALL NOT EXCEED ONE-HALF OF THE ALLOWABLE DISTANCE BETWEEN SPRINKLERS. REFER TO DETAIL OF MAXIMUM ALLOWABLE DISTANCE.

10. THE DISTANCE FROM SPRINKLERS TO FREE-STANDING PARTITIONS OR ROOM DIVIDERS SHALL BE SUFFICIENT TO AVOID OBSTRUCTION TO THE SPRINKLER DISCHARGE PATTERN. REFER TO DETAIL FOR MINIMUM VERTICAL DISTANCES.

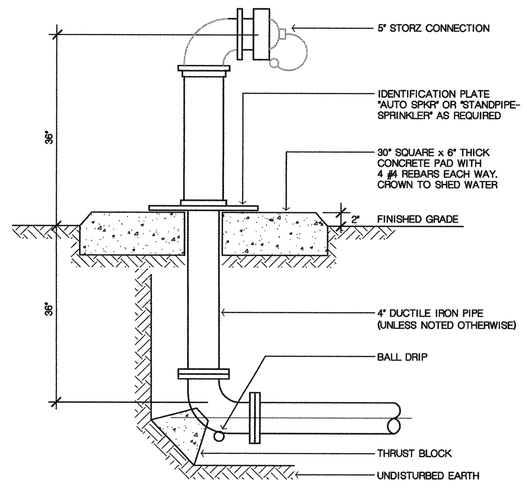
11. A MINIMUM OF EIGHTEEN INCHES (18") CLEARANCE SHALL BE MAINTAINED BETWEEN TOP OF STORAGE AND CEILING SPRINKLER DEFLECTORS.

12. THE DISTANCE FROM WALLS TO SPRINKLERS SHALL NOT EXCEED ONE-HALF OF THE ALLOWABLE DISTANCE BETWEEN SPRINKLERS. SPRINKLERS SHALL BE LOCATED A MINIMUM OF FOUR INCHES (4") FROM WALLS.

13. SPRINKLERS SHALL BE INSTALLED BENEATH OBSTRUCTIONS OVER FOUR FEET (4') WIDE.

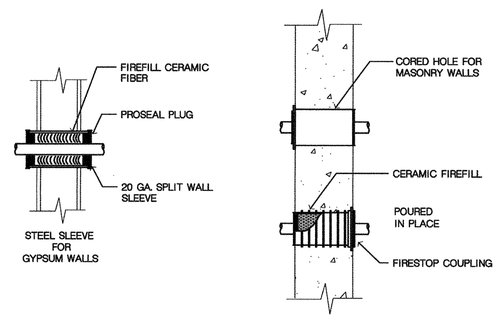
FIRE DEPARTMENT CONNECTION

GUARDIAN MODEL 6635/6645-D OR CROKER 6369, CHROME PLATED WITH HARDCOATED ALUMINUM STORZ CAP WITH ATTACHENT CABLE.



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FIRE RATED WALL SLEEVING SYSTEM

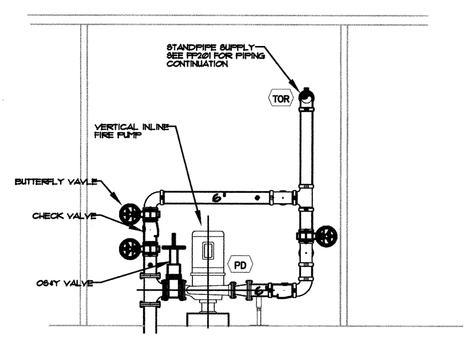


SLEEVES & FIRESTOPPING

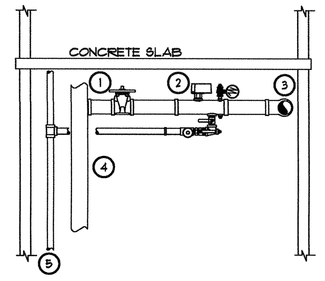
USE PROSET "FIRESTOP PENETRATORS" UL CLASSIFIED IN THE BUILDING MATERIALS DIRECTORY, TESTED BY ASTM E814. USE ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

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FIRE PUMP SECTION



FLOOR CONTROL ASSEMBLY



1. CONTROL VALVE W/ TAMPER SWITCH
2. RISER MANIFOLD(W/ DRAIN, PRESSURE GAUGE & FLOW SWITCH)
3. SUPPLY TO SPRINKLER SYSTEM
4. 4" STANDPIPE
5. 2" DRAIN RISER

REV: 02-14-05

PROJECT INFORMATION

1. THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THE FOLLOWING FORMS: NFPA 13, 2002, FIGURE 16.1 CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING AND FIGURE 10.10.1 CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING. REFER TO NFPA 13, 2002, CHAPTER 10, SYSTEM ACCEPTANCE, FOR DETAILS OF APPLICABLE TESTS. ALL REPORTS FOR INSPECTIONS, TESTS AND/OR MAINTENANCE OF FIRE SPRINKLER SYSTEMS SHALL BE IN COMPLIANCE WITH NFPA 25, 2002 EDITION.

2. THE SUPPORT SYSTEMS OF THE BUILDING HAVE ADEQUATE LOAD CARRYING CAPACITY FOR A 5 PSF DEAD LOAD WHICH WILL BE CONTRIBUTED BY THE FIRE SPRINKLER, MECHANICAL & ELECTRICAL SYSTEMS. THERE ARE NO SIGNIFICANT STRUCTURAL OPENINGS THAT WILL BE REQUIRED BY THE FIRE SPRINKLER SYSTEM.

3. APPLICABLE STANDARDS:
NFPA 13, 2002, INSTALLATION OF SPRINKLER SYSTEMS.
NFPA 24, 2002, INSTALLATION OF PRIVATE FIRE SERVICE MAINS.
NFPA 25, 2002, STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.
NFPA 26, 2002, SUPERVISION OF VALVES CONTROLLING WATER SUPPLIES FOR FIRE PROTECTION.

4. CLASSIFICATION HAZARD:
BUILDING SHALL BE LIGHT HAZARD, 0.10 DENSITY OVER 900 SQ. FT.(PER NFPA 13 SECTION 11.2.3.2.3.1) WITH 100 GPM HOSE ALLOWANCE.

5. DESIGN APPROACH: THE BUILDING IS SERVED BY A WET PIPED AUTOMATIC FIRE SPRINKLER SYSTEM USING STEEL PIPING. SPRINKLERS SHALL BE ORDINARY TEMPERATURE RECESSED PENDENT TYPE WITH A 5.6 K FACTOR, STANDARD COVERAGE, QUICK RESPONSE, 15 FT. MAXIMUM SPACING WITH A MAXIMUM PROTECTION AREA OF 225 SQ. FT. FOR LIGHT HAZARD AREAS. UPRIGHT SPRINKLERS SHALL BE STANDARD COVERAGE, 5.6 K-FACTOR, BRASS FINISH, QUICK RESPONSE WITH A MAXIMUM PROTECTION AREA OF 225 SQ. FT.

6. FLOW TEST DATA:
PROVIDED BY:
TESTED BY:
LOCATION: BETWEEN HIGH SCHOOL BUILDINGS J1 AND ARTS
DATE: 3-6-6
STATIC: 65 PSI
RESIDUAL: 55 PSI
GPM FLOWING: 1060 GPM

7. VALVING AND ALARM REQUIREMENTS: THE FIRE SPRINKLER RISERS SHALL HAVE A WATER FLOW SWITCH WITH A LOCAL AUDIBLE ALARM, RISER CHECK VALVE AND A SUPERVISED CONTROL VALVE WITH A LOCAL AUDIBLE ALARM.

8. MICROBIAL INDUCED CORROSION: ALL SPRINKLER PIPING UTILIZED ON THIS PROJECT SHALL BE PROVIDED WITH AN ANTIBACTERIAL FORMULA (ABF) COATING.

9. BACKFLOW PREVENTION AND METERING: THE BACKFLOW PREVENTER SHALL BE U.L. LISTED DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND LEAK METERING DEVICE WHICH MEETS THE REQUIREMENTS OF THE LOCAL WATER UTILITY DEPARTMENT. THE BACKFLOW PREVENTER SHALL HAVE A MAXIMUM ALLOWANCE PRESSURE DROP OF 8 PSI.

10. QUALITY AND PERFORMANCE SPECS.: ALL YARD AND INTERIOR FIRE PROTECTION PIPING, FITTINGS, DEVICES, HANGERS, EQUIPMENT, VALVES AND ACCESSORIES SHALL BE U.L. LISTED AND/OR FM APPROVED. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION

FIRE PROTECTION DRAWING INDEX

FP0.1	FIRE PROTECTION LEGEND, NOTES & DETAILS
FP0.2	FIRE PROTECTION SITE PLAN – NOT INCLUDED
FP1.1	FIRE PROTECTION – FIRST FLOOR PLAN
FP1.2	FIRE PROTECTION – SECOND FLOOR PLAN
FP1.3	FIRE PROTECTION – THIRD FLOOR PLAN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
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FAX: (850) 230-3584
Commission Number: 06318

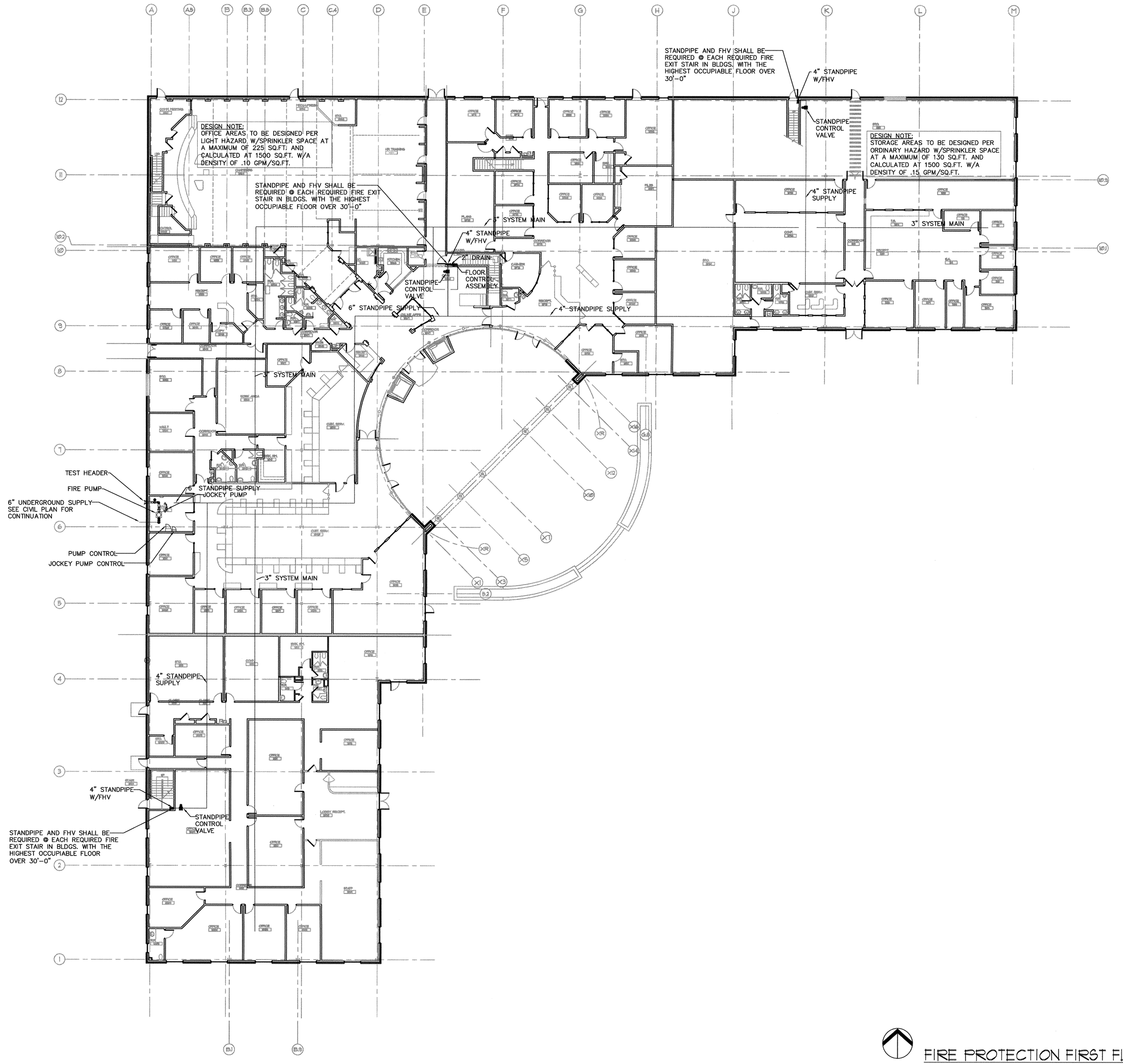
CONSULTANTS:
CEA CONSULTING ENGINEERING ASSOCIATES, INC.
8365 GUNN HIGHWAY
TAMPA, FLORIDA 33626
PHONE: (813) 445-0225
FAX: (813) 445-0228
CERT. NUMBER: 00
PROJECT NUMBER: 07014

SIGNATURE DATE
JOHN W. WELLS, III, PE
PE 0049347
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION LEGENDS, NOTES, AND DETAILS

SHEET NUMBER:
FP0.1



NORTH

FIRE PROTECTION FIRST FLOOR PLAN

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	06-06-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT NUMBER: 07014

SIGNATURE DATE
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION
FIRST FLOOR PLAN

SHEET NUMBER:
FP1.1



NORTH

FIRE PROTECTION SECOND FLOOR PLAN

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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FAX: (850) 230-3584
Commission Number: 06318

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PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0002502
PROJECT NUMBER: 07014

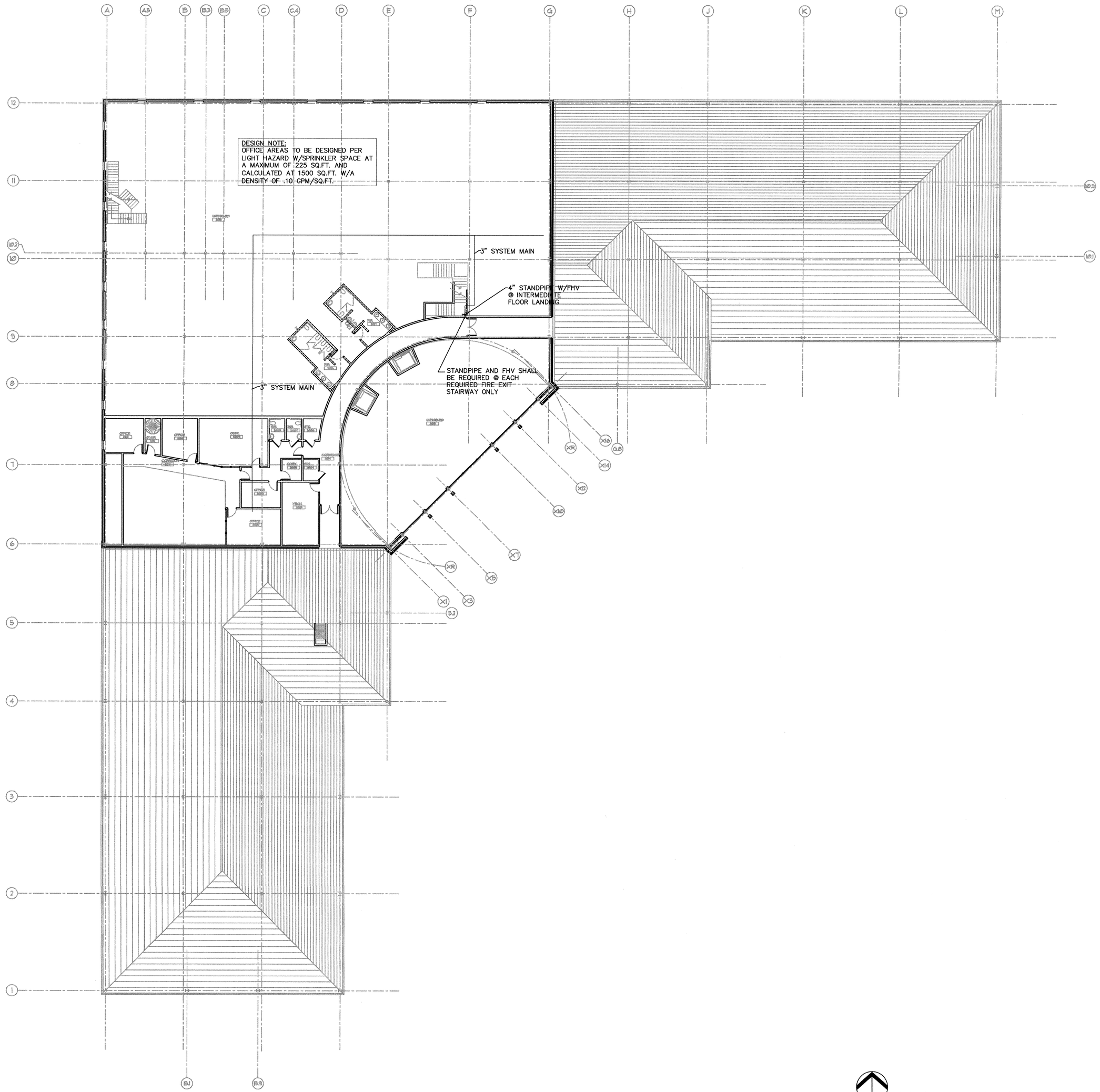
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PE 0049347
DATE
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION
SECOND FLOOR PLAN

SHEET NUMBER:
FP1.2



NORTH

FIRE PROTECTION THIRD FLOOR PLAN

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

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PHONE: (813) 448-2225
FAX: (813) 448-0226
EB 0005982
PROJECT NUMBER: 07014

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PE 0049347
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

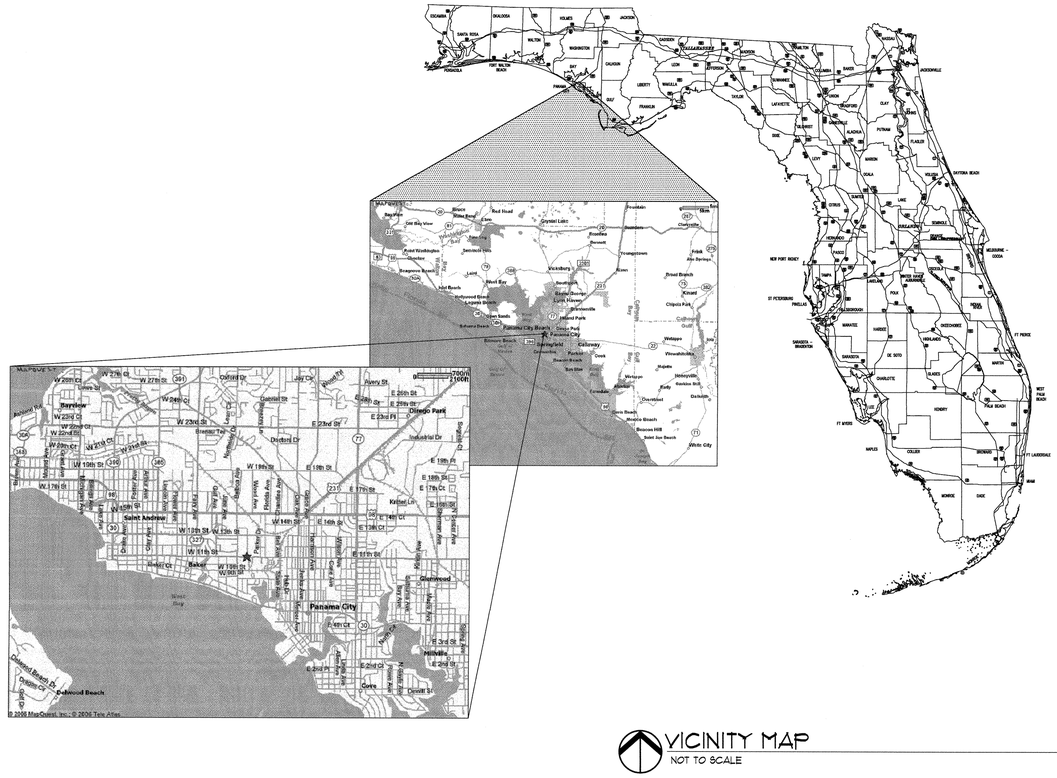
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRE PROTECTION THIRD FLOOR PLAN

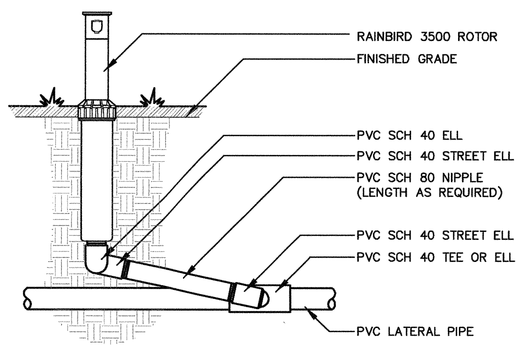
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FP1.3

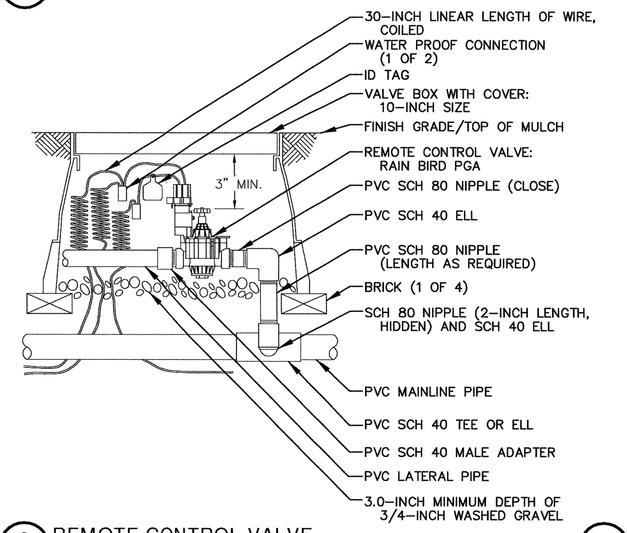

Panama City
Panama City Beach
Lynn Haven
Parker
Springfield
Callaway
Southport
Bayview
Chipola Park
Cherokee Park
Saint Andrews
Baker
Glenwood
Millville
Cedar Grove
Oak Grove
Edgewood
Redwood Beach
Redwood Beach Dr
Crestline Dr
Jenks Ave
Beck Ave
Harrison Ave
Frankford Ave
Thomas Dr
Lisenby Ave
Jan Cir
Kimbrel Ct
Kinsel Ln
Dogwood Dr
Dorothy Ln
Dorothy Cir
Dorothy St
Dorothy Ct
Dorothy Pl
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Dorothy Trl
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Dorothy Sq
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Dorothy Center
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Dorothy Peace
Dorothy Joy
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Dorothy Saint
Dorothy Angel
Dorothy Demon
Dorothy Satan
Dorothy Evil
Dorothy Good
Dorothy Sin
Dorothy Virtue
Dorothy Vice
Dorothy Crime
Dorothy Punishment
Dorothy Reward
Dorothy Justice
Dorothy Mercy
Dorothy Forgiveness
Dorothy Repentance
Dorothy Confession
Dorothy Penance
Dorothy Absolution
Dorothy Communion
Dorothy Baptism
Dorothy Confirmation
Dorothy Marriage
Dorothy Ordination
Dorothy Anointing
Dorothy Last Rites
Dorothy Purgatory
Dorothy Limbo
Dorothy Resurrection
Dorothy Ascension
Dorothy Pentecost
Dorothy Trinity Sunday
Dorothy All Saints Day
Dorothy All Souls Day
Dorothy Christmas
Dorothy Epiphany
Dorothy Lent
Dorothy Ash Wednesday
Dorothy Palm Sunday
Dorothy Holy Thursday
Dorothy Good Friday
Dorothy Easter
Dorothy Ascension Day
Dorothy Pentecost Sunday
Dorothy Trinity Sunday
Dorothy Corpus Christi
Dorothy Sacred Heart
Dorothy Immaculate Heart
Dorothy Assumption
Dorothy All Saints Day
Dorothy All Souls Day
Dorothy Christmas Day
Dorothy Epiphany
Dorothy Lent
Dorothy Ash Wednesday
Dorothy Palm Sunday
Dorothy Holy Thursday
Dorothy Good Friday
Dorothy Easter Sunday

IRRIGATION SCHEDULE

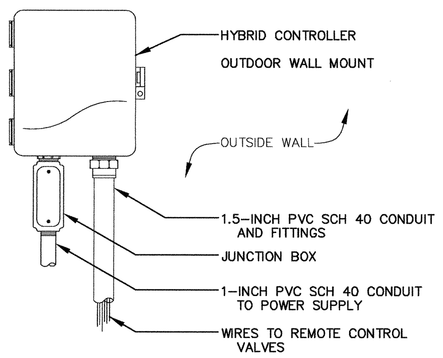
QUANTITY	KEY	MODEL (RAINBIRD UNLESS OTHERWISE NOTED)	GALLONS PER MINUTE
23	VAN	1804–PRS–8VAN	.72–1.55
41		1804–PRS–8Q	.26
118		1804–PRS–8H	.52
2		1804–PRS–8TQ	1.55
27		1804–PRS–10Q	.39
84		1804–PRS–10H	.79
5		1804–PRS–10TQ	1.18
2	VAN	1804–PRS–12VAN	.65–1.30
6		1804–PRS–12Q	.65
50		1804–PRS–12H	1.30
1		1804–PRS–12T	.87
3		1804–PRS–12TQ	1.95
15	VAN	1804–PRS–15VAN	.92–1.85
34		1804–PRS–15Q	.92
133		1804–PRS–15H	1.85
1		1804–PRS–15T	
5		1804–PRS–15TQ	2.78
4		1804–PRS–15F	3.70
40		1804–PRS–15SST	1.21
40		1804–PRS–15EST	.61
26		1804–PRS–18QVAN	1.33
55		1804–PRS–18HVAN	2.66
1		1804–PRS–18TQVAN	3.99
12		1804–PRS–18FVAN	5.32
18	1.0	3504–PC W/ 1.0 NOZZLE	.77 @ 25 PSI
45	2.0	3504–PC W/ 2.0 NOZZLE	1.40 @ 25 PSI
4	4.0	3504–PC W/ 4.0 NOZZLE	2.97 @ 25 PSI
26	1"	1" ELECTRIC REMOTE CONTROL VALVE 100–PGA	
15	1–1/2"	1–1/2" ELECTRIC REMOTE CONTROL VALVE 150–PGA	
4	XCZ100	1" DRIP VALVE KIT	
1	A	8 STATION BASE MODULAR CONTROLER (ESPLXM) W/ THREE 8 STATION MODULES (32 STATIONS TOTAL)	
1	B	8 STATION BASE MODULAR CONTROLER (ESPLXM) W/ ONE 8 STATION MODULE (16 STATIONS TOTAL)	
2	▲	MINI–CLIK RAIN SENSOR	
1	Z	1–1/4" BACKFLOW PREVENTER FEBCO 825YA	



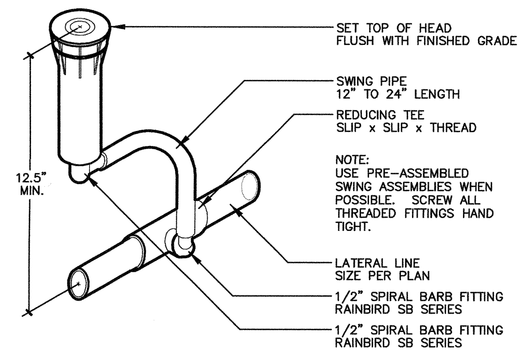
9 / IP2 **3500**
SCALE: 1/4"=1"
© 2001 ALAN D. HOLT, ASLA



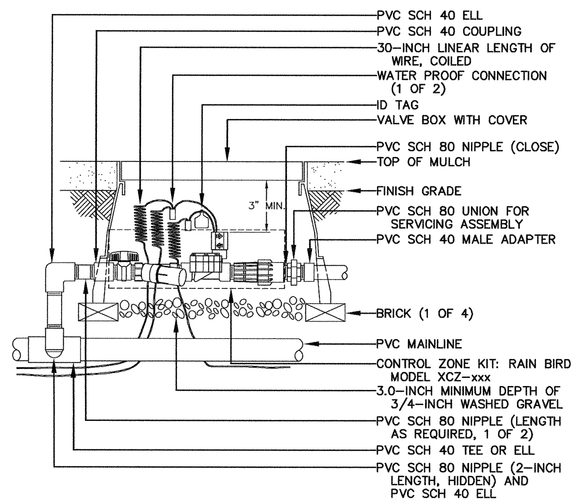
8 / IP2 REMOTE CONTROL VALVE
SCALE: N.T.S.



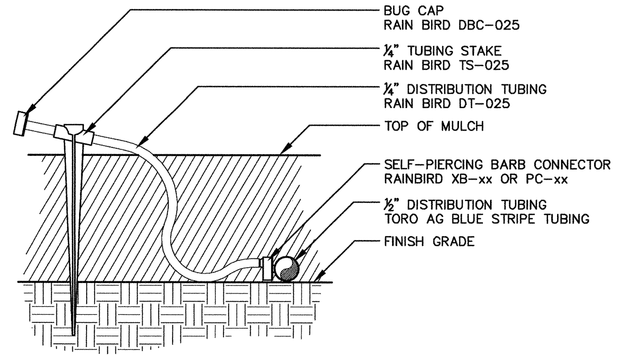
7 / IP2 HYBRID CONTROLLER
SCALE: N.T.S.



6 / IP2 **SPRAYHEAD DETAIL**
SCALE: 1/4"=1"
© 2001 ALAN D. HOLT, ASLA

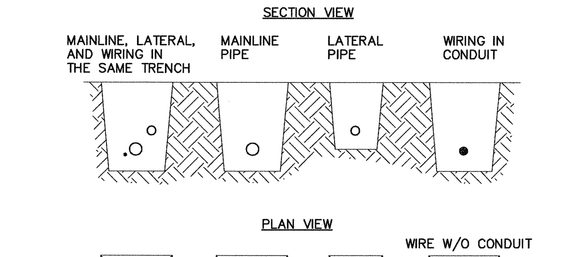


5 / IP2 DRIP VALVE
N.T.S.

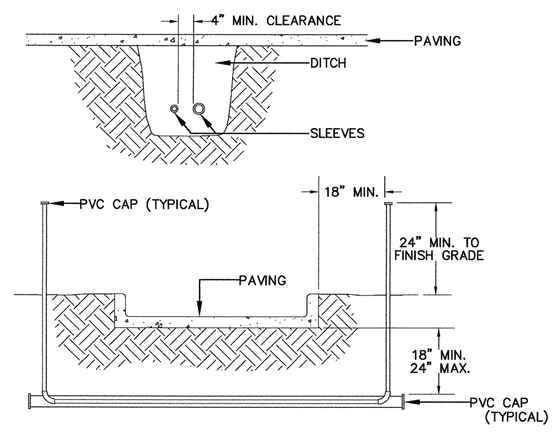


NOTE:
1. USE RAIN BIRD BUG GUN (MODEL EMA–BGX) OR XERIMAN TOOL (MODEL XM–TOOL) TO INSERT BARB CONNECTOR DIRECTLY INTO ½" DISTRIBUTION TUBING.

4 / IP2 DRIP COMPONENT DETAIL
SCALE: N.T.S.

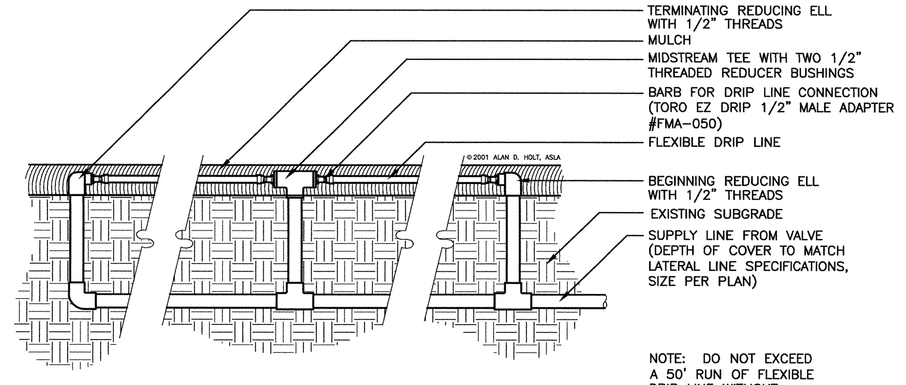


3 / IP2 PIPE & WIRE TRENCHING
SCALE: N.T.S.



NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCHEDULE 40 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24–INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

2 / IP2 SLEEVING DETAIL
SCALE: N.T.S.



NOTE: DO NOT EXCEED A 50' RUN OF FLEXIBLE DRIP LINE WITHOUT ADDING A MIDSTREAM SUPPLY STUB.

1 / IP2 DRIP LINE CONNECTION DETAIL
SCALE: 3/4" = 1'–0"
SHEET

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03–20–07
DESIGN DEVELOPMENT	-	-	06–06–07
DD OWNER REVIEW	-	-	08–08–07
75% CONSTRUCTION DOCUMENTS	-	-	11–16–07
———	-	-	———

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Commission Number: 06318

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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
IRRIGATION PERMIT DRAWING

SHEET NUMBER:
IP2

MU-4

33.80 FFE

ALEXANDER APARTMENTS

MU-4

(S 89°29'00" E) S 89°22'59" E 650.00'

FRAME FENCE FROM 0.2' TO 1.1' NORTH OF LINE

N 00°15'00" W 11.00'

(S 89°29'00" E) S 89°22'59" E 246.90'

24"RCP

36"RCP

ASPHALT PAVING

EXISTING TOWER

FINISHED FLOOR EL 32.50

GC-1

30' WIDE EASEMENT - OFFICAL RECORDS BOOK 466, PAGE 480.

WETLANDS LINE FLAGGED BY GARLICK ENVORNMENTAL ASSOCIATES, INC. ON 09/18/07

(S 12°29'39" W 156.23')
(S 11°31'00" W 157.80')

S 32°08'00" W 317.60'

CONC. HEADWALL

DRAINAGE DITCH

ASPHALT PAVING CONNECTS TO 12TH STREET

CANVAS EROSION CONTROL MAT

(S 06°11'00" W 427.00')
S 06°10'52" W 427.18'

TOP OF BANK

DRAINAGE DITCH

TOP OF BANK

MU-2

WOOD AVENUE

FINISHED FLOOR EL 30.50

29.15 FFE

ONE STORY BUILDING CONCRETE BLOCK WITH METAL ROOF

22.47 FFE

28.07 FFE

METAL SHED

GRAPHIC SCALE

0 15 30 60 90 120

SCALE IN FEET

LANDSCAPE LEGEND

GROUNDCOVER

- CENTIPEDE SOD APPROXIMATELY 110,000 S.F.
- 202 'LEMON YELLOW' DAYLILY 1 GAL. 30" O.C.
- 223 YELLOW AFRICAN IRIS 1 GAL. 30" O.C.

SHRUBS

- 372 YAUPON HOLLY 3 GAL. 30" O.C.
- 652 DWARF INDIAN HAWTHORN 3 GAL. 30" O.C.
- 107 WAX MYRTLE 3 GAL. 8' O.C.

UNDERSTORY TREES

- 42 'MUSKOGEE' CRAPE MYRTLE 30 GAL. MIN. 3 STEMS @ 1" CAL.
- 2 'LITTLE GEM' MAGNOLIA 10' HEIGHT MATCHED
- 12 SABAL PALMS 10–14' HEIGHT STAGGERED

CANOPY TREES

- 56 LIVE OAK 6' HEIGHT

LANDSCAPING REQUIREMENTS

FRONTAGE REQUIREMENTS
(1 TREE/25' ROAD FRONTAGE)

PROPERTY LINE	LENGTH	CANOPY TREES REQUIRED	CANOPY TREES PROVIDED
NORTH	–	–	–
SOUTH	–	–	–
EAST	–	–	–
WEST	470.50'	19	19*

* TREES LOCATED THROUGHOUT SITE DUE TO OVERHEAD POWER

INTERIOR LANDSCAPE REQUIREMENTS
(1 TREE FOR EVERY 15 ADJACENT PARKING SPACES
OR TERMINATION OF MULTIPLE ADJACENT PARKING SPACES)

PARKING LOT ISLANDS	CANOPY TREES REQUIRED	CANOPY TREES PROVIDED
58	58	58

OTHER REQUIRED BUFFERS

PROPERTY LINE	LENGTH	PROVIDED
NORTH		
OPAQUE BUFFER	896.90'	9' WIDE, 8' HIGH OPAQUE PLANTING
SOUTH		
–	–	–
EAST		
–	–	–
WEST		
PARKING SCREEN	39'	18" SCREEN PLANTING ADJACENT TO PARKING AREA

LANDSCAPE NOTES:

1. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. ELIMINATE EXISTING VEGETATION IN AREAS TO BE PLANTED. SPRAY WITH ROUNDUP AT MANUFACTURER'S RECOMMENDED RATE TWICE IN 14 DAYS.
3. TOP DRESS ALL AREAS TO RECEIVE PLANTINGS WITH 2" FINISHED MUSHROOM COMPOST PRIOR TO PLANTING.
4. ALL PLANT MATERIAL FLORIDA #1 OR BETTER.
5. DECREASE PLANT SPACING AS REQUIRED TO ALLOW PLACEMENT OF THE DESIGNATED NUMBER OF PLANTS PER GROUPING.
6. FERTILIZE ALL PLANTINGS WITH OSMOCOTE OR OTHER APPROVED SLOW RELEASE FERTILIZER AT MANUFACTURER'S RECOMMENDED RATE BEFORE MULCHING.
7. APPLY PREEN OR OTHER APPROVED PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS BEFORE MULCHING.
8. MULCH ALL AREAS OF TREE, SHRUB AND GROUNDCOVER MASS PLANTINGS WITH 3" PINESTRAW MULCH.
9. QUANTITIES SHOWN IN PLANT LIST ARE FOR CONTRACTOR'S CONVENIENCE. VERIFY ALL PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST.
10. B&B MATERIAL MAY BE SUBSTITUTED FOR CONTAINER GROWN MATERIAL PROVIDED IT EXCEEDS THE MINIMUM SIZES NOTED.
11. SOD ALL DISTURBED AREAS WITH SPECIES SHOWN ON PLAN.
12. WARRANTY ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE.

IRRIGATION NOTES:
1. AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND SUPPLYING ELECTRICAL POWER TO CONTROLLER.
3. CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
4. PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
5. PROVIDE RAIN SHUT OFF DEVICE PER FLA. STATE LAW.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	·	·	03-20-07
DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-06-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
———	·	·	———

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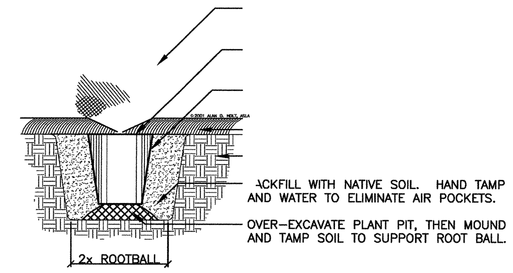
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

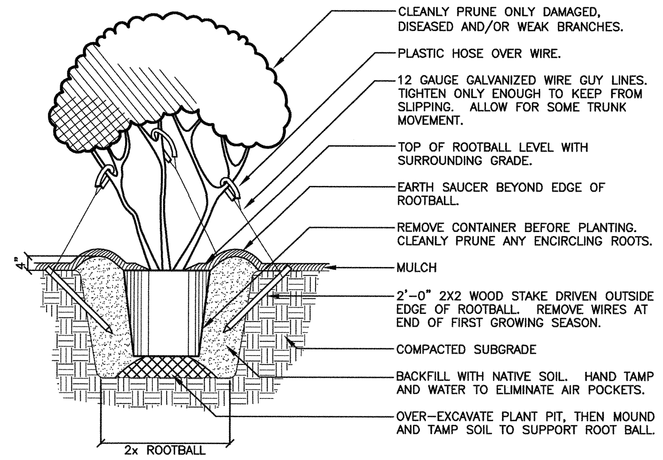
SHEET TITLE:
LANDSCAPE PERMIT DRAWING

SHEET NUMBER:
LP1



3 LP2 CONTAINERIZED SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE

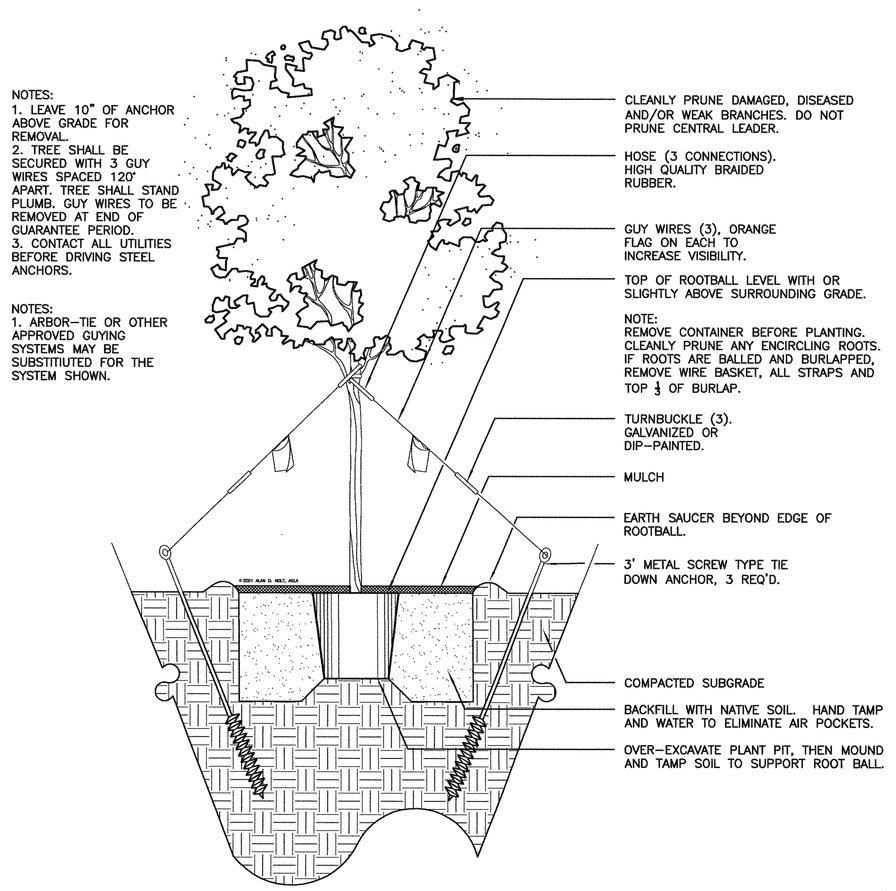
NOTE:
1. ANGLE GUY LINES 45° TO FINISH GRADE.
2. SPACE GUY LINES AT 120°.



2 LP2 MULTI-TRUNK TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"

NOTES:
1. LEAVE 10" OF ANCHOR ABOVE GRADE FOR REMOVAL.
2. TREE SHALL BE SECURED WITH 3 GUY WIRES SPACED 120° APART. TREE SHALL STAND PLUMB. GUY WIRES TO BE REMOVED AT END OF GUARANTEE PERIOD.
3. CONTACT ALL UTILITIES BEFORE DRIVING STEEL ANCHORS.

NOTES:
1. ARBOR-TIE OR OTHER APPROVED GUYING SYSTEMS MAY BE SUBSTITIUTED FOR THE SYSTEM SHOWN.



1 LP2 TREE PLANTING AND GUYING DETAIL #2
SCALE: NOT TO SCALE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	•	•	
DESIGN DEVELOPMENT	•	•	
DD OWNER REVIEW	•	•	08-08-07
75% CONSTRUCTION DOCUMENTS	•	•	11-16-07
	•	•	

JRA

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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:
LP2

BUILDER SERVICES
6,949 S.F. THIS FLOOR
2,630 S.F. ABOVE

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	6,145	62
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	637	2
SUB-TOTALS	6,782	64

SUPERVISOR OF ELECTIONS
11,252 S.F.

TOWER

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	4,443	45
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	5,425	18
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	1,015	68
TOTALS	10,883	131

ADMIN. CHAMBERS
6,072 S.F. THIS FLOOR
8,840 S.F. ABOVE

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	623	6
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	84	1
ASSEMBLY (FIXED SEATS) - 300 PERSONS	3,639	300
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY- NOT FIXED) - 7 GROSS SF/ PERSON	1,479	204
SUB-TOTALS	5,825	511

VETERANS AFFAIRS
1,476 S.F.

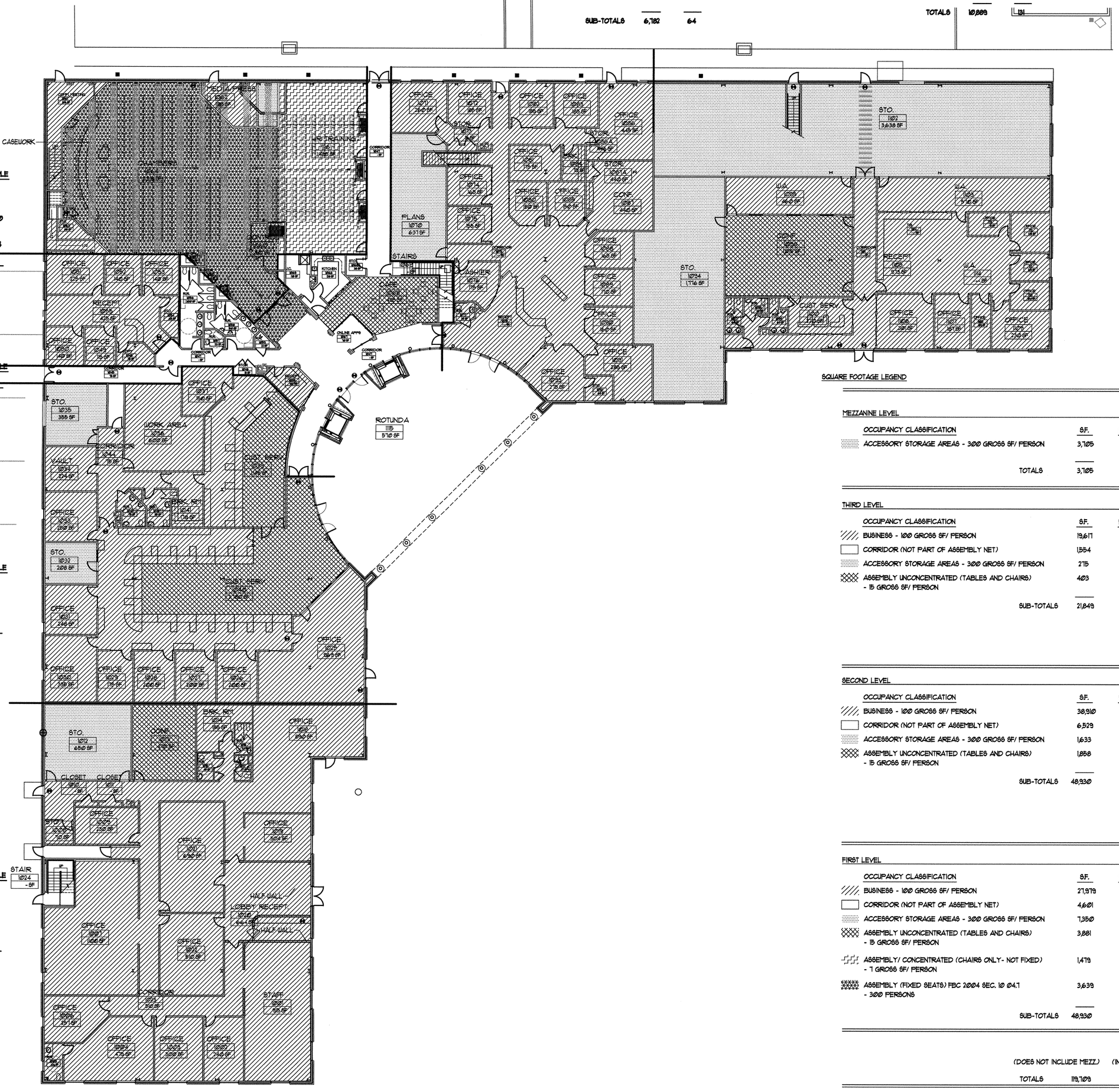
OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	1,411	14
SUB-TOTALS	1,411	14

TAX COLLECTOR
9,257 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	6,523	65
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	599	2
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	1,850	126
SUB-TOTALS	8,972	193

PROPERTY APPRAISER
10,273 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	8,804	88
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	645	3
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	465	31
SUB-TOTALS	9,914	122



ADMIN. CHAMBERS
6,072 S.F. THIS FLOOR
8,840 S.F. ABOVE

O.L. = 511

VETERANS AFFAIRS
1,476 S.F.

O.L. = 14

TAX COLLECTOR
9,257 S.F.

O.L. = 193

PROPERTY APPRAISER
10,273 S.F.

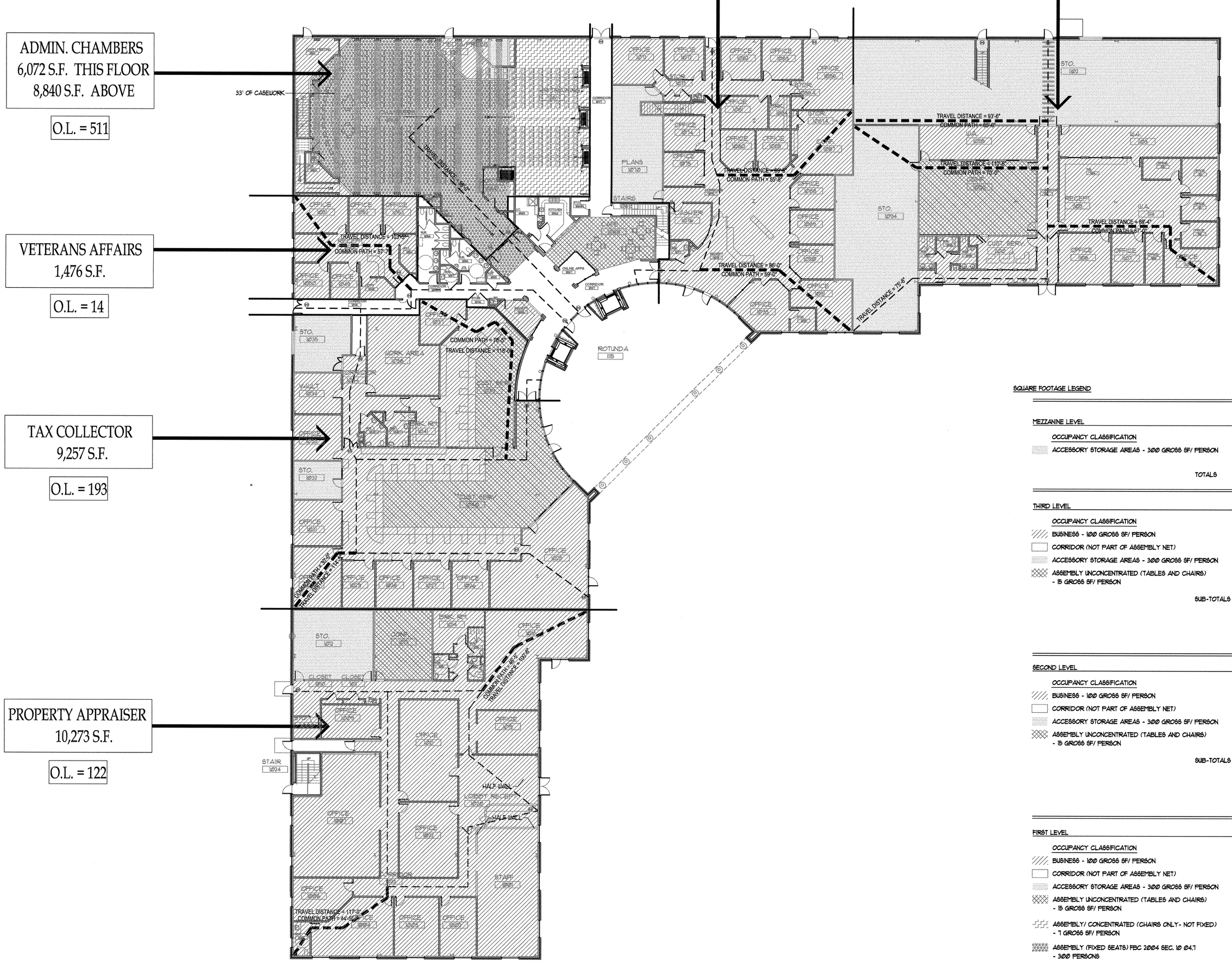
O.L. = 122

BUILDER SERVICES
6,949 S.F. THIS FLOOR
2,630 S.F. ABOVE

O.L. = 64

SUPERVISOR OF ELECTIONS
11,252 S.F.

O.L. = 131



BUILDERS SERVICES 2ND
3,325 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	2,750	28
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	298	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	177	12
TOTALS	3225	41

UNFINISHED
2,609 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	2,601	26
TOTALS	2,601	26

PLANNING / ZONING
3,442 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	3,108	31
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	256	17
TOTALS	3,364	48

P.W.D. / ENGINEERING
7,150 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	6,345	63
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	594	40
TOTALS	6,939	103

ADMINISTRATION
8,640 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	7,154	72
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	700	47
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	632	2
TOTALS	8,486	121

BUDGET
1,251 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	1,251	13
TOTALS	1,251	13

TRAFFIC / ENGINEERING 2ND
2,715 S.F.

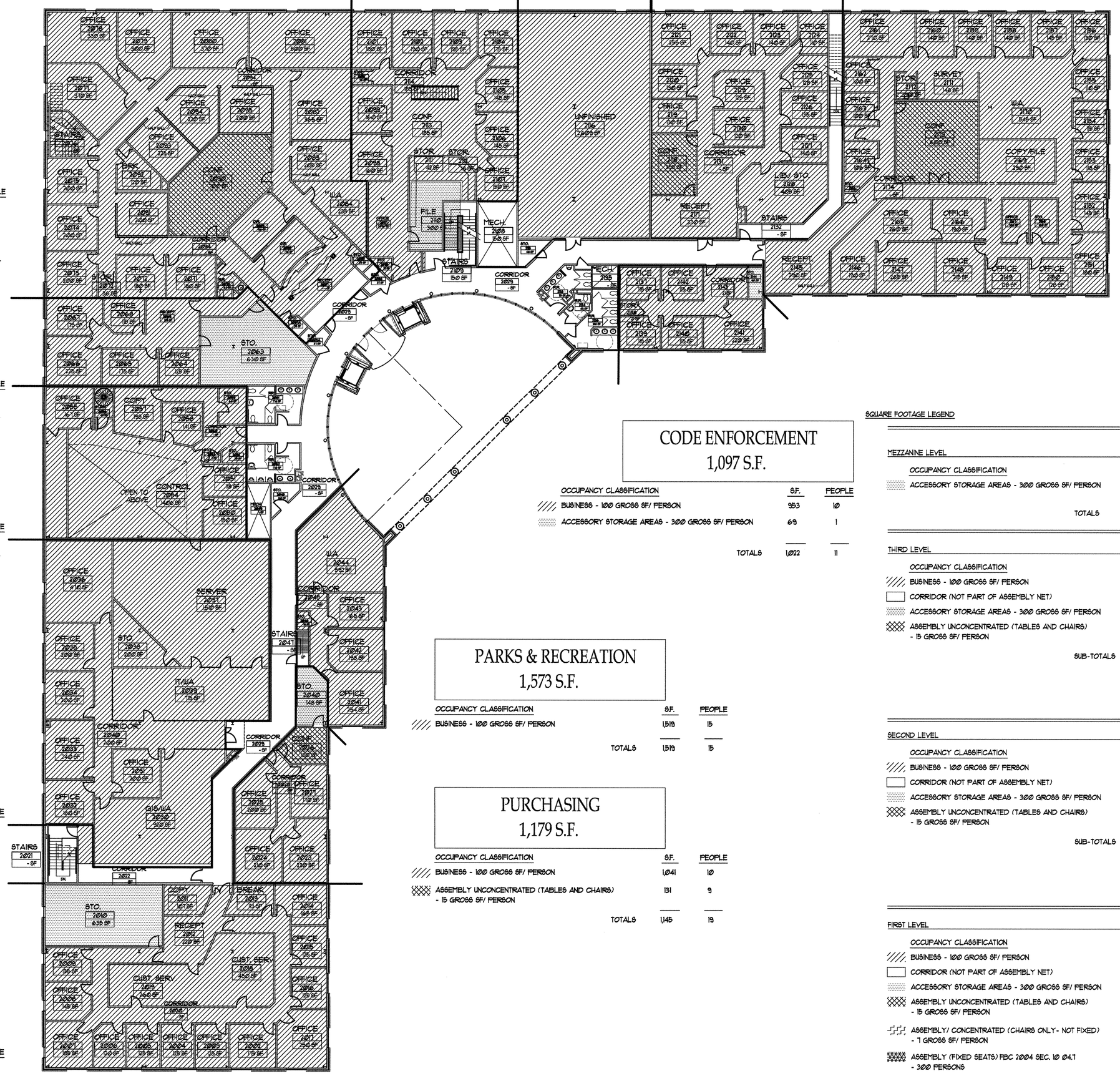
OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	2,610	27
TOTALS	2,610	27

I.T. / G.I.S.
5,714 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	5,605	56
TOTALS	5,605	56

H.R. / R.M.
4,707 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	3,907	39
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	634	2
TOTALS	4,541	41



CODE ENFORCEMENT
1,097 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	953	10
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	69	1
TOTALS	1,022	11

PARKS & RECREATION
1,573 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	1,519	15
TOTALS	1,519	15

PURCHASING
1,179 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	1,041	10
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	131	9
TOTALS	1,145	19

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,105	12
TOTALS	3,105	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,617	197
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,384	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	275	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	403	27
SUB-TOTALS	21,849	225

SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,910	389
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,329	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	1,633	5
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	1,858	124
SUB-TOTALS	48,930	518

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,978	284
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,601	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,350	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY- NOT FIXED) - 7 GROSS SF/ PERSON	1,479	211
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 1004.7 - 300 PERSONS	3,633	300
SUB-TOTALS	48,930	1,078

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1,832

PLUMBING FIXTURE TABULATION

THIRD LEVEL

MALES (226/2) 113
FEMALES (226/2) 113

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	-	
LAVATORIES	-	
FEMALES		
WATER CLOSETS	-	
LAVATORIES	-	
UNI-SEX		
WATER CLOSETS	-	1
LAVATORIES	-	1
DRINKING FOUNTAINS	-	-

SECOND LEVEL

MALES (518/2) 259
FEMALES (518/2) 259

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	6	9
LAVATORIES	4	6
FEMALES		
WATER CLOSETS	6	7
LAVATORIES	4	7
UNI-SEX		
WATER CLOSETS	-	1
LAVATORIES	-	1
DRINKING FOUNTAINS	-	6

FIRST LEVEL

MALES (1014/2) 507
FEMALES (1014/2) 507

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	11	11
LAVATORIES	7	8
FEMALES		
WATER CLOSETS	11	11
LAVATORIES	7	8
UNI-SEX		
WATER CLOSETS	-	5
LAVATORIES	-	5
DRINKING FOUNTAINS	-	10

	TOTAL FIXTURES REQUIRED	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	17	20
LAVATORIES	11	14
FEMALES		
WATER CLOSETS	17	18
LAVATORIES	11	15
UNI-SEX		
WATER CLOSETS	-	7
LAVATORIES	-	7
DRINKING FOUNTAINS	-	16
SERVICE SINKS	--	--
MOP SINKS	-	-
SINGLE SINKS	-	-
TRIPLE SINKS	-	-

NORTH

SECOND FLOOR - LIFE SAFETY PLAN

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

NORTH KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- (2) CEILING MOUNTED SMOKE DETECTOR
- (H) CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- (S) CEILING MOUNTED INTERCOM SPEAKER
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- FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION
- EXIT LIGHT
- EMERGENCY LIGHT
- SPRINKLERS
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT
- PRIMARY MEANS OF EGRESS
- DEAD END CORRIDOR
- COMMON PATH OF TRAVEL
- TRAVEL DISTANCE
- O.L. OCCUPANT LOAD
- FEC - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 711
- FEC - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 711

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REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
"75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2805 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
LIFE SAFETY PLAN - LEVEL 2

SHEET NUMBER:
LS2.1

BUILDERS SERVICES 2ND
3,325 S.F.

O.L. = 41

UNFINISHED
2,609 S.F.

O.L. = 26

PLANNING / ZONING
3,442 S.F.

O.L. = 48

P.W.D. / ENGINEERING
7,150 S.F.

O.L. = 103

ADMINISTRATION
8,640 S.F.

O.L. = 121

BUDGET
1,251 S.F.

O.L. = 13

TRAFFIC / ENGINEERING 2ND
2,715 S.F.

O.L. = 27

CODE ENFORCEMENT
1,097 S.F.

O.L. = 11

PARKS & RECREATION
1,573 S.F.

O.L. = 15

I.T. / G.I.S.
5,714 S.F.

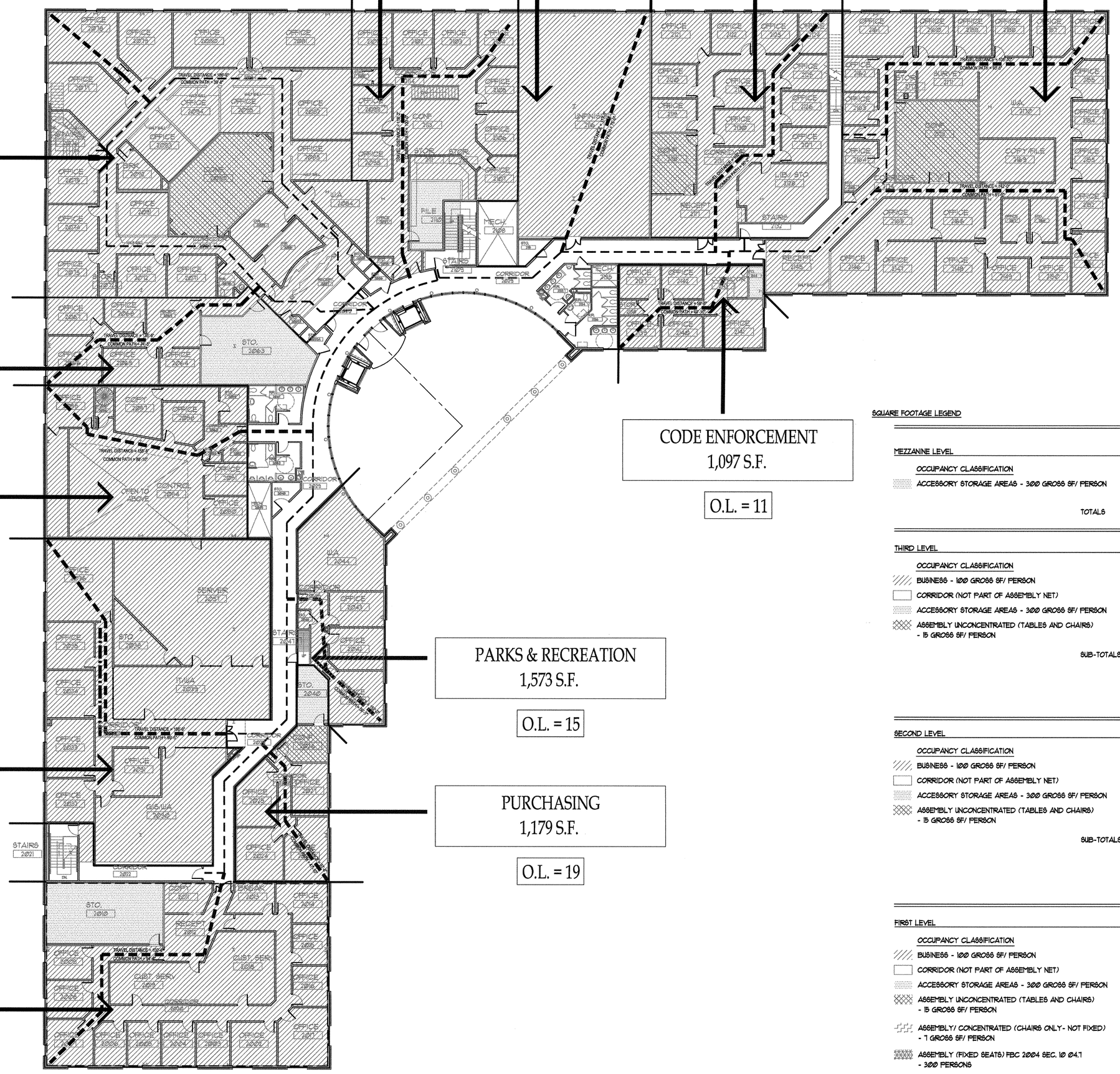
O.L. = 56

PURCHASING
1,179 S.F.

O.L. = 19

H.R. / R.M.
4,707 S.F.

O.L. = 41



NORTH

SECOND FLOOR - LIFE SAFETY PLAN

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

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,105	10
TOTALS	3,105	10

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	13,667	137
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,504	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	215	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	403	27
SUB-TOTALS	21,849	225

SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,310	389
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,529	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	1,633	5
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	1,858	124
SUB-TOTALS	48,930	518

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,579	284
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,601	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	1,350	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY- NOT FIXED) - 7 GROSS SF/ PERSON	1,479	211
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 Ø4.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,079

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,109	1,832

NORTH

KEY PLAN

SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- (S) CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION
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- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT
- PRIMARY MEANS OF EGRESS
- DEAD END CORRIDOR
- COMMON PATH OF TRAVEL
- TRAVEL DISTANCE
- O.L. OCCUPANT LOAD
- (FEC) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 5'0" AFF. MUST COMPLY WITH UL 711
- (FEB) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 5'4" AFF MUST COMPLY WITH UL 711

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DESIGN DEVELOPMENT	·	·	09-06-07
DD OWNER REVIEW	·	·	08-28-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
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BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

LIFE SAFETY PLAN - EXITING - LEVEL 2

SHEET NUMBER:

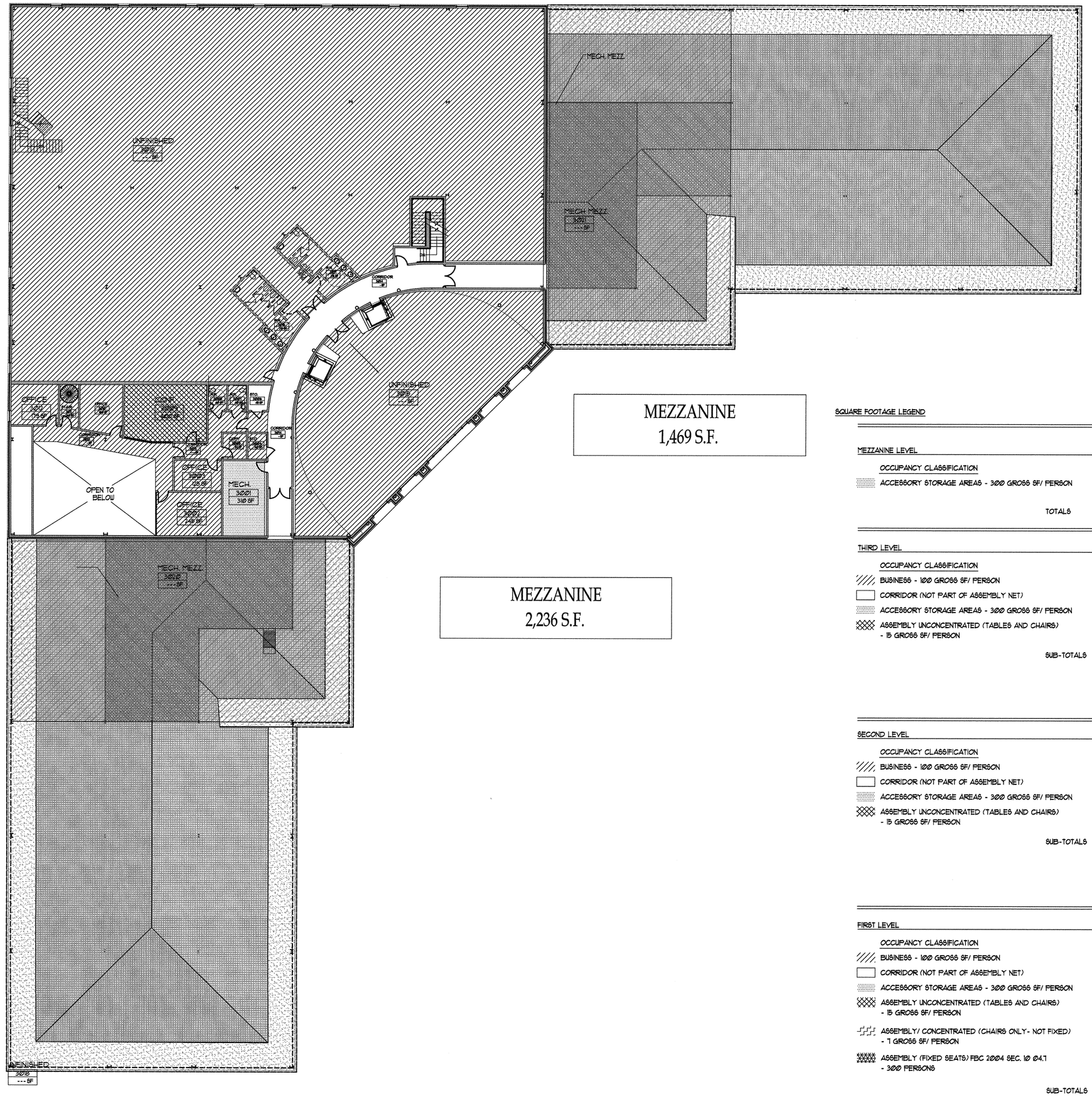
LS2.2

UNFINISHED
18,703 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	18,718	181
TOTALS	18,718	181

TRAFFIC / ENGINEERING 3RD
1,957 S.F.

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	1,439	15
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	403	27
TOTALS	1,892	42



MEZZANINE
1,469 S.F.

MEZZANINE
2,236 S.F.

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,105	12
TOTALS	3,105	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,617	197
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,584	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	275	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	403	27
SUB-TOTALS	21,849	225

SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,910	389
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,529	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	1,633	5
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	1,858	124
SUB-TOTALS	48,930	518

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,979	284
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,601	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,350	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY - NOT FIXED) - 7 GROSS SF/ PERSON	1,479	211
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 Ø4.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,079

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1,832

PLUMBING FIXTURE TABULATION

THIRD LEVEL

MALES (226/2) 113
FEMALES (226/2) 113

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	-	
LAVATORIES	-	
FEMALES		
WATER CLOSETS	-	
LAVATORIES	-	
UNI-SEX		
WATER CLOSETS	-	1
LAVATORIES	-	1
DRINKING FOUNTAINS	-	-

SECOND LEVEL

MALES (518/2) 259
FEMALES (518/2) 259

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	6	9
LAVATORIES	4	6
FEMALES		
WATER CLOSETS	6	7
LAVATORIES	4	7
UNI-SEX		
WATER CLOSETS	-	1
LAVATORIES	-	1
DRINKING FOUNTAINS	-	6

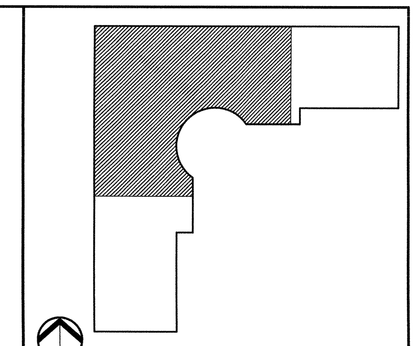
FIRST LEVEL

MALES (1,014/2) 507
FEMALES (1,014/2) 507

	REQUIRED FIXTURES	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	11	11
LAVATORIES	7	8
FEMALES		
WATER CLOSETS	11	11
LAVATORIES	7	8
UNI-SEX		
WATER CLOSETS	-	5
LAVATORIES	-	5
DRINKING FOUNTAINS	-	10

	TOTAL FIXTURES REQUIRED	FIXTURES PROVIDED
MALES		
WATER CLOSETS/URINALS	17	20
LAVATORIES	11	14
FEMALES		
WATER CLOSETS	17	18
LAVATORIES	11	15
UNI-SEX		
WATER CLOSETS	-	7
LAVATORIES	-	7
DRINKING FOUNTAINS	-	16
SERVICE SINKS	--	--
MOP SINKS	-	-
SINGLE SINKS	-	-
TRIPLE SINKS	-	-

NORTH THIRD FLOOR - LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



NORTH KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- (2) CEILING MOUNTED SMOKE DETECTOR
- (H) CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- (S) CEILING MOUNTED INTERCOM SPEAKER
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- SPRINKLERS
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT
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- DEAD END CORRIDOR
- COMMON PATH OF TRAVEL
- TRAVEL DISTANCE
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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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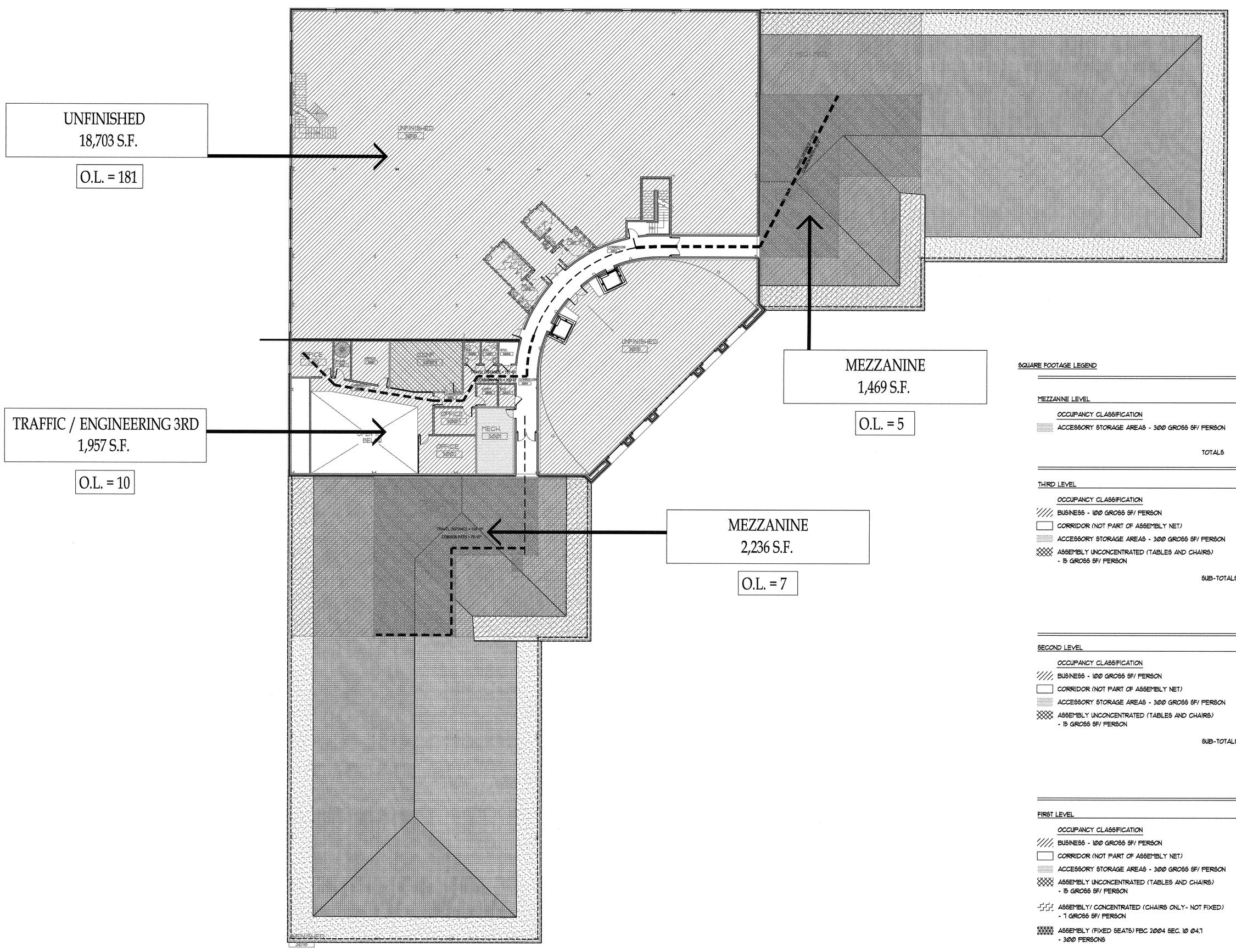
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
LIFE SAFETY PLAN - LEVEL 3

SHEET NUMBER:
LS3.1



NORTH THIRD FLOOR - LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,105	10
TOTALS	3,105	10

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,667	197
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,504	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	215	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	463	27
SUB-TOTALS	21,849	225

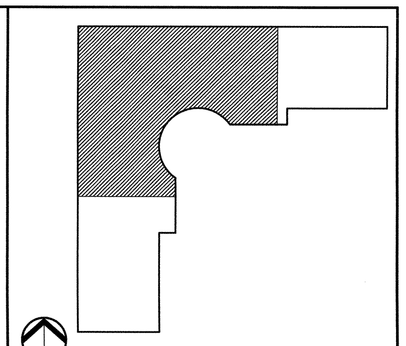
SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,910	389
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	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
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PANAMA CITY, FLORIDA

SHEET TITLE:
LIFE SAFETY PLAN - EXITING - LEVEL 3

SHEET NUMBER:
LS3.2

ABBREVIATIONS

* NOTE: ABBREVIATIONS AND SYMBOLS CONTAINED HERE IT MAY OR MAY NOT BE USED ON THIS PROJECT *

A		
	AFF	ABOVE FINISHED FLOOR
	AHU	AIR HANDLING UNIT
	ATMOS	ATOMSPHERE
B		
	BHP	BRAKE HORSEPOWER
	BTU	BRITISH THERMAL UNIT
	BS	BIRD SCREEN
C		
	CHWR	CHILLED WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	COMP	COMPRESSOR
	CONC	CONCRETE
	CFM	CUBIC FEET PER MINUTE
	CEA	CONSULTING ENGINEERING ASSOCIATES
D		
	DET	DETAIL
	DIA	DIAMETER
	DIM	DIMENSION
	DB	DRY BULB
	DISCH	DISCHARGE
E		
	ELEV	ELEVATION
	ENGR	ENGINEER
	EAT	ENTERING AIR TEMPERATURE
	EWT	ENTERING WATER TEMPERATURE
	EQUIP	EQUIPMENT
	EF	EXHAUST FAN
	ESP	EXTERNAL STATIC PRESSURE
F		
	FV	FACE VELOCITY
	FT	FEET
	FPM	FEET PER MINUTE
	FLEX	FLEXIBLE
G		
	GPM	GALLONS PER MINUTE
H		
	HD	HEAD
	HTR	HEATER
	HP	HORSEPOWER
L		
	LAT	LEAVING AIR TEMPERATURE
	LWT	LEAVING WATER TEMPERATURE
M		
	MBH	1000 BTU PER HOUR
	MECH	MECHANICAL
	MEZZ	MEZZANINE
	MTD	MOUNTED
N		
	NTS	NOT TO SCALE
O		
	OA	OUTSIDE AIR
P		
	PVC	POLYVINYL CHLORIDE
	PSI	POUNDS PER SQUARE INCH
	PRESS	PRESSURE
	PD	PRESSURE DROP
Q		
	QTY	QUANTITY
R		
	RM	ROOM
	RA	RETURN AIR
	RPM	REVOLUTIONS PER MINUTE
S		
	SCH	SCHEDULE
	SHT	SHEET
	SPECS	SPECIFICATIONS
	SQ.FT.	SQUARE FEET
	STD	STANDARD
	SP	STATIC PRESSURE
	STR	STRAINER
	STRUCT	STRUCTURAL
	SA	SUPPLY AIR
T		
	TEMP	TEMPERATURE
	TH	THERMOMETER
	T	THERMOSTAT
	TSP	TOTAL STATIC PRESSURE
	TV	TURNING VANE
	TYP	TYPICAL
U		
	UL	UNDERWRITER'S LABORATORIES
V		
	VAV	VARIABLE AIR VOLUME BOX
	VD	VOLUME DAMPER
W		
	WB	WET BULB

SYMBOLS

- NET INSIDE DIMENSION — SIZE IN INCHES (PLAN DIM. FIRST)
- RADIUS TYPE ELBOW
- SQUARE TYPE ELBOW WITH TURNING VANES
- FLEXIBLE DUCTWORK
- MANUAL VOLUME DAMPER
- FIRE DAMPER
- (M) MOTORIZED DAMPER
- (BD) BACKDRAFT DAMPER
- (SD) DUCT MOUNTED SMOKE DETECTOR, PROVIDED BY DIVISION 26, INSTALLED BY DIVISION 23. SEE ELECTRICAL PLANS FOR EXACT QUANTITY.
- SUPPLY AIR DEVICE
- RETURN AIR DEVICE
- EXHAUST AIR DEVICE
- S-1 / 100 / 6x6 — DENOTES DEVICE IDENTIFICATION; DENOTES CFM; DENOTES NECK SIZE
- VAV BOX
- INLINE EXHAUST FAN
- CEILING MOUNTED EXHAUST FAN
- 1" DOOR UNDERCUT
- (T) THERMOSTAT OR TEMP SENSOR INSTALL 48" AFF IF WALL MOUNTED
- SHUT-OFF VALVE
- PIPING ELBOW

GENERAL NOTES

1. PLANS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE MECHANICAL SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SHOP DRAWINGS AND SIMILAR CERTIFIED DATA. PLANS SHALL NOT BE SCALED.
2. NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED.

   THE SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS DO NOT RELIEVE THE CONTRACTOR AND THIS INSTALLER FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DRAWINGS OR DIVISION OF THE SPECIFICATIONS. THIS INSTALLER SHALL REVIEW AND COORDINATE THE SCOPE OF HIS WORK WITH THOSE SECTIONS TO ASSURE HE IS PROVIDING A COMPLETE AND FUNCTIONAL SYSTEM.
3. SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS FOR REVIEW. INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
4. DUCTWORK, AIR DEVICES AND OTHER ITEMS OF THE AIR DISTRIBUTION SYSTEM SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING OR CEILING SUSPENSION SYSTEM. COORDINATE LOCATION OF AIR DEVICES AND LOUVERS WITH ELECTRICAL, ARCHITECTURAL, AND PLUMBING WORK. DIFFUSERS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE FROM AT LEAST TWO POINTS.
5. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF "SMACNA" DUCT CONSTRUCTION STANDARDS AND COMPLY WITH THE LATEST "NFPA" 90A REQUIREMENTS. ALL DUCTWORK SHALL BE LEAK TESTED IN ACORDANCE WITH SMACNA AND ASHRAE STANDARDS. DUCTS WITH A LEAKAGE RATE MORE THAN 2% WILL BE REJECTED.
6. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
7. SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED SHEETMETAL. SEAL ALL DUCT JOINTS WITH HARDCAST. ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTS SHALL BE INSULATED WITH BLANKET TYPE INSULATION WITH VAPOR BARRIER (MINIMUM R = 6.0). EXHAUST AIR DUCTS SHALL BE INSULATED WHERE SHOWN ON THE FLOOR PLAN.
8. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE. PROVIDE A TWO FOOT LONG MATERIAL FROM ALL DAMPER HANDLES TO ASSIST TEST AND BALANCE AGENCY IN IDENTIFYING ALL DAMPERS.
9. ALL DUCT ELBOWS SHALL INCLUDE AIR FLOW DIRECTIONAL VANES AS PER "SMACNA" DUCT CONSTRUCTION STANDARDS. SPLITTER VANES SHALL BE PROVIDED IN ALL ELBOWS AND DUCT OFFSETS WITH ANGLES BETWEEN 15 DEGREE AND 90 DEGREES AS PER FIG. 2-5 OF THE SMACNA MANUAL. 90 DEGREE ELBOWS SHALL HAVE TURNING VANES.
10. PROVIDE CONICAL SPIN-IN FITTINGS AT ALL CONNECTIONS OF ROUND SHEET METAL OR FLEXIBLE SUPPLY AIR DUCTS TO RIGID RECTANGULAR DUCT.
11. FLEXIBLE DUCTS SHALL BE FACTORY INSULATED WITH 3/4" THICK GLASS FIBER AND INCLUDE A VINYL VAPOR JACKET AND HELIX STEEL WIRE. "THERMAFLEX" TYPE MAKE OR APPROVED EQUAL. FLEXIBLE DUCT SHALL BE ATTACHED WITH "THERMAFLEX" WRAP LOCK SERIES 0902 CLAMPS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0".
12. PROVIDE P-TRAPS AT ALL CONDENSATE DRAIN LINE CONNECTIONS. SLOPE DRAIN LINES TOWARD THE POINT OF DISCHARGE (MIN 1/8"/FOOT). INSULATE CONDENSATE DRAIN LINES WITH 3/4" THICK SEAMLESS CLOSED CELL RUBBER PIPE INSULATION. CONDENSATE DRAIN LINES TO BE PVC. LINES SHALL BE ONE DIAMETER LARGER THAN THE UNIT DRAIN CONNECTION, BUT NOT LESS THAN 3/4 INCH. PROVIDE CLEANOUTS AT ALL CHANGES OF DIRECTION.
13. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL AIR MOVING APPARATUS AND DUCTWORK. RECOMMENDED WIDTH IS 4".
14. WHERE INDICATED ON DRAWINGS AND/OR EQUIPMENT SCHEDULES EXTERNAL STATIC PRESSURE IS DEFINED AS NOT INCLUDING LOSSES DUE TO UNIT MOUNTED FILTER(S), RETURN AIR PLENUM OR MIXING BOXES. THOSE LOSES SHALL BE PART OF THE EQUIPMENT INTERNAL LOSSES SAME AS THOSE CAUSED BY COILS, CABINET, ETC.
15. ALL EQUIPMENT (FANS, AIR HANDLERS, CHILLERS, ETC.) SHALL BE LABELED WITH PLASTIC SIGNS, LAMINATED, ENGRAVED: 1/8" THICK BLANKS FOR SIGNS SHALL BE A MINIMUM OF 1 3/4" HIGH, WITH 1" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" EACH END. SIGNS DESIGNATED FOR INSTALLATION ON THE OUTSIDE, IN OPEN AREAS, OR LOCATED IN A PROTECTED AREA THAT IS SUBJECT TO DIRECT SUNLIGHT, SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS. SUBMITTAL DATA INDICATING THE ABOVE WILL BE REQUIRED. LABLES SHALL ALSO INCLUDE THE ROOM NUMBER, CORRESPONDING AIR HANDLER LOCATION OR AREA SERVED TO ASSIST IN THE DETERMINATION OF THE SERVICE LOCATION OF SAID EQUIPMENT.
16. ALL WALL MOUNTED TEMPERATURE ND HUMIDITY SENSORS SHALL BE INSTALLED AT A CENTER LINE ELEVATION OF 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH THE OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT OR HIS REPRESENTATIVE IN THE FIELD.
17. MECHANICAL INSTALLER SHALL RETAIN THE SERVICES OF A NEBB OR AABC CERTIFIED TEST AND BALANCE AGENCY TO PERFORM FINAL TESTING AND BALANCING OF ALL HVAC SYSTEMS. RECORD ALL DATA ON STANDARD "AABC" OR OTHER APPROVED FORMS, AND SUBMIT TO THE ARCHITECT FOR REVIEW.
18. ALL CHILLED WATER PIPING TO BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS (2-1/2" AND LARGER); SCREWED FITTINGS (2" AND UNDER).
19. ALL CHILLED WATER PIPING TO BE INSULATED WITH 2" THICK FOAMGLASS INSULATION INSTALLED AS PER MANUFACTURERS INSTRUCTIONS AND FINISHED WITH A WHITE VAPORPROOF SELF LAPPING COVER. SMALLER LINES (1" AND UNDER) AND RUNOUTS TO EQUIPMENT MAY BE INSULATED WITH 1" THICK SEAMLESS CLOSED CELL RUBBER INSULATION.
20. EQUIPMENT SERVICE ACCESS

    PROVIDE ADEQUATE SERVICE SPACE AROUND AIR HANDLING UNITS, ELECTRIC DUCT HEATERS AND THE PULL SIDE OF FILTERS.

    SERVICE AREA SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS, AND ANY OTHER CONSTRUCTION APPURTENANCE.

CODE CRITERIA

NOTE:
ALL CODES SHALL COMPLY WITH THE LATEST EDITION OF STATE FIRE MARSHALL'S RULE 4A-3.014 F.A.C. THIS LIST IS NOT INCLUSIVE OF ALL CODES AND STANDARDS THAT MAY OR MAY NOT APPLY TO THIS PROJECT.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
- *NFPA-70 (2005) NATIONAL ELECTRICAL CODE
- *NFPA-90A (2002) INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
- *NFPA-90B (2006) STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS
- *NFPA-101 (2006) LIFE SAFETY CODE

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. (ASHRAE):
- *ASHRAE GUIDELINE 4-1993 PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS
- *ASHRAE STANDARD 62.1-2004 AND APPROVED ADDENDA VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
- *ASHRAE STANDARD 126-2000 METHOD OF TESTING HVAC AIR DUCTS

OTHER:
- *FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION - 2004, WITH 2005 AND 2006 REVISIONS
- *FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT (JANUARY 1997) AS DESCRIBED IN ACCESSIBILITY REQUIREMENTS MANUAL, DEPARTMENT OF COMMUNITY AFFAIRS
- *FLORIDA BUILDING CODE (FBC) 2004 WITH 2005 AND 2006 REVISIONS - ALL SECTIONS
- *FLORIDA FIRE PREVENTION CODE 2004

HVAC DESIGN CRITERIA

LOCATION PANAMA CITY, FLORIDA	OUTDOOR °F TEMP DB/WB		SUMMER INDOOR TEMP °F DB/WB	WINTER INDOOR TEMP °F DB
	SUMMER	WINTER	75/63	70
	89/80	37		
LOAD CRITERIA	FLOOR INSULATION		R=0	
	WALL INSULATION		R=5	
	ROOF INSULATION		R=20	
	WINDOW TYPE		SINGLE PANE / NO TINT	

COORDINATION DRAWINGS

PRIOR TO INSTALLATION AND FABRICATION OF HVAC WORK, CONTRACTOR SHALL SUBMIT DETAILED COORDINATION DRAWINGS AT 1/4" = 1'-0" SCALE. DRAWINGS ARE TO INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING ITEMS:

1. DETAILED SHEET METAL DRAWINGS INDICATING ALL DUCTWORK, VOLUME DAMPERS, ACCESS DOORS, GRILLES, REGISTERS AND DIFFUSERS, AIR HANDLING EQUIPMENT, PENETRATIONS THROUGH WALLS, ETC.
2. DETAILED STRUCTURAL, LIGHTING, PLUMBING AND/OR FIRE PROTECTION DRAWINGS INDICATING ALL PIPING (SANITARY, VENT, DOMESTIC WATER) LOCATIONS OF PLUMBING EQUIPMENT (INCLUDING EQUIPMENT FURNISHED BY OWNER), VENTS THROUGH ROOF, ACCESS DOORS, CLEANOUTS, ETC.
3. THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK FOR CHECKING FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. THESE DRAWINGS ARE NOT TO BE CONFUSED WITH SHOP DRAWINGS. THEY ARE NOT SHOP DRAWINGS. THEY ARE A TOOL TO AIDE THE CONTRACTORS IN THE INSTALLATION OF THEIR SYSTEMS.
4. AFTER COORDINATION DRAWINGS ARE COMPLETED AND REVIEWED BY A/E, ANY ADDITIONAL WORK REQUIRED IN ANY OF THESE TRADES TO PROVIDE SYSTEMS THAT DO NOT CONFLICT WITH EACH OTHER OR WITH ARCHITECTURAL AND STRUCTURAL WORK SHALL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.

NOTES

1. THE NOTES SHOWN ON THIS SHEET APPLY TO GENERAL CONDITIONS OF HEATING, VENTILATING AND AIR CONDITIONING WORK REQUIRED FOR THIS PROJECT.
2. SPECIFICATIONS, PROJECT MANUALS AND DRAWINGS, REFER TO THIS SHEET FOR APPLICABLE REFERENCES.
3. THE DESIGN DRAWNGS OF ALL CATEGORIES AND TRADES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL) AND ALL SPECIFICATIONS AND SHOP DRAWINGS MUST BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.
4. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 105.13.4.4 OF THE FLORIDA BUILDING CODE AND 633 FLORIDA STATUTES.

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REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	9-14-07
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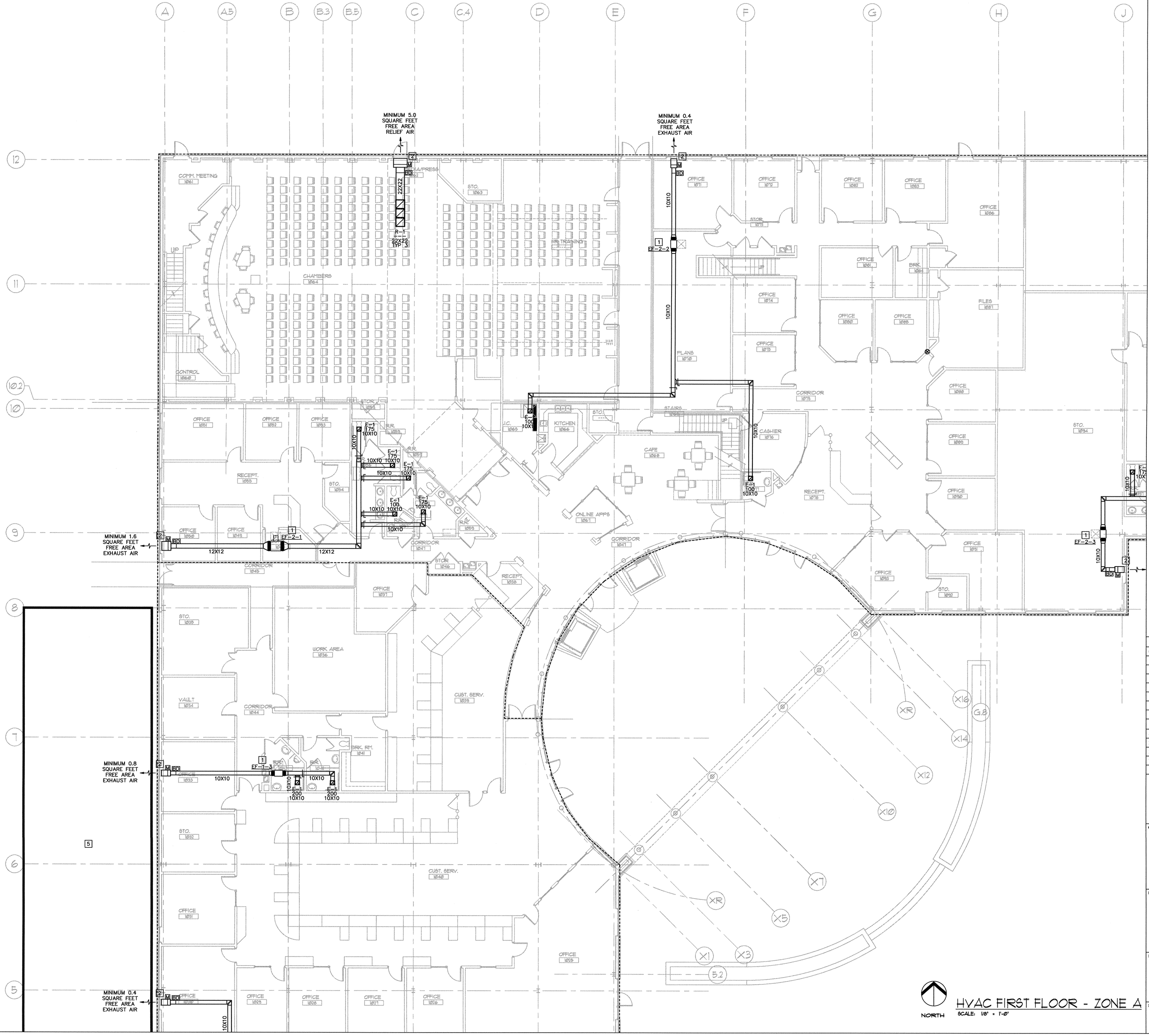
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC LEGENDS, NOTES, AND SYMBOLS

SHEET NUMBER:
M0.1



HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
3. REFER TO SHEET M2.1 FOR HVAC ENLARGED MEZZANINE FLOOR.
4. REFER TO SHEET M2.2 FOR HVAC ENLARGED MEZZANINE FLOOR.
5. REFER TO SHEET M2.3 FOR HVAC ENLARGED CHILLER PLANT.
6. COORDINATE LOCATION OF VAV BOX WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. VAV BOXES TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

HVAC FIRST FLOOR - ZONE A

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

NORTH

REVISIONS:

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PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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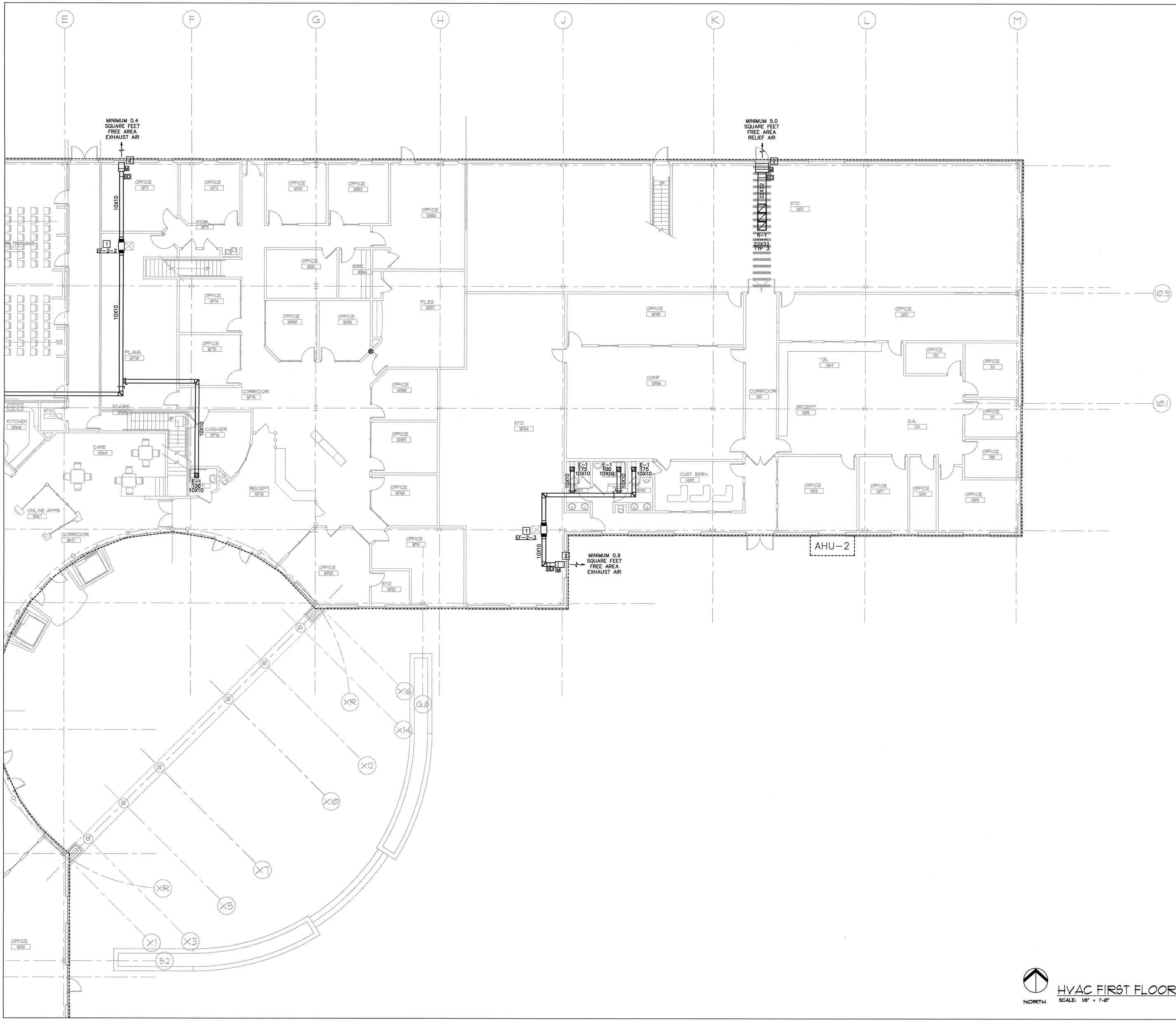
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC FIRST FLOOR ZONE A

SHEET NUMBER:
M1.1A



NORTH

HVAC FIRST FLOOR - ZONE B

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

HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
3. REFER TO SHEET M2.1 FOR HVAC ENLARGED MEZZANINE FLOOR.
4. REFER TO SHEET M2.2 FOR HVAC ENLARGED MEZZANINE FLOOR.
5. REFER TO SHEET M2.3 FOR HVAC ENLARGED CHILLER PLANT.
6. COORDINATE LOCATION OF VAV BOX WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. VAV BOXES TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

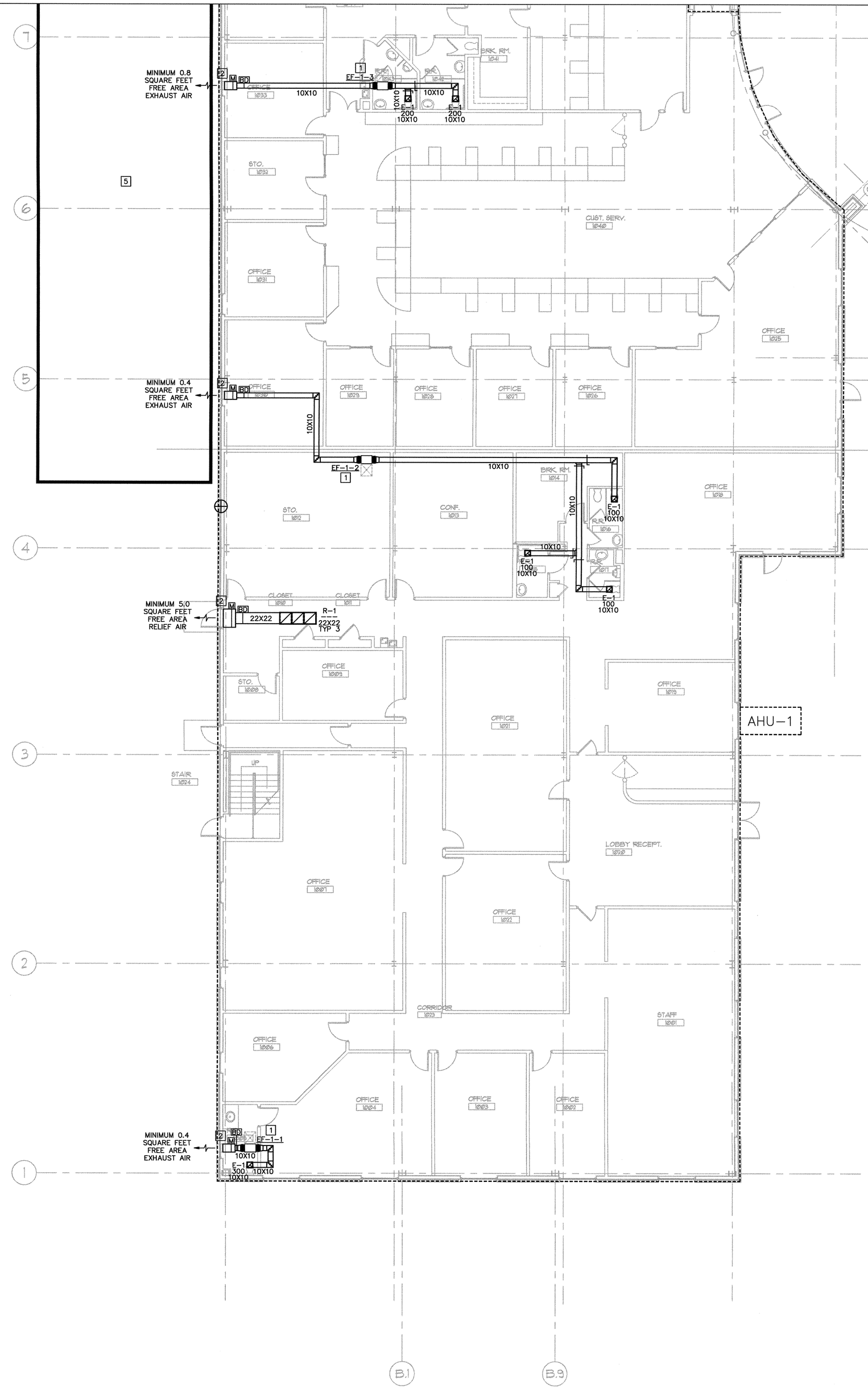
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC FIRST FLOOR
ZONE B

SHEET NUMBER:

M1.B



HVAC FIRST FLOOR - ZONE C

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

NORTH

HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
3. REFER TO SHEET M2.1 FOR HVAC ENLARGED MEZZANINE FLOOR.
4. REFER TO SHEET M2.2 FOR HVAC ENLARGED MEZZANINE FLOOR.
5. REFER TO SHEET M2.3 FOR HVAC ENLARGED CHILLER PLANT.
6. COORDINATE LOCATION OF VAV BOX WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. VAV BOXES TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-26-07
DD OWNER REVIEW	-	-	08-28-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC FIRST FLOOR ZONE C

SHEET NUMBER:
M1.1C



HVAC SECOND FLOOR - ZONE A

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

HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
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7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

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DESIGN DEVELOPMENT	-	-	06-26-07
DD OWNER REVIEW	-	-	08-26-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

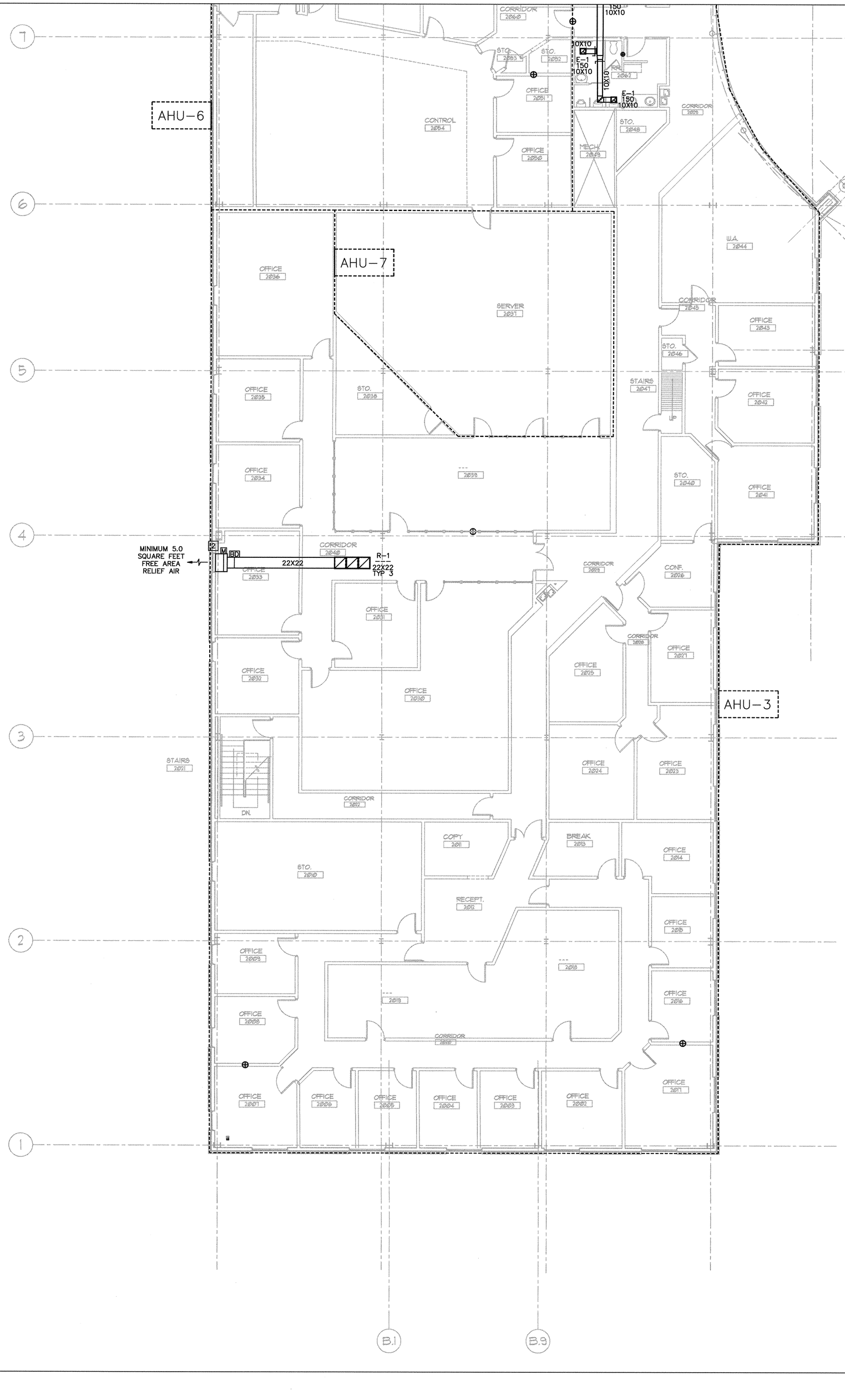
SHEET TITLE:

HVAC SECOND FLOOR ZONE A

SHEET NUMBER:

M1.2A


E
F
G
H
J
K
L
M
10.3
10.1
MINIMUM 5.0 SQUARE FEET FREE AREA RELIEF AIR
22X22
SD
R-1
22X22 TYP. 3
OFFICE 2160
OFFICE 2161
OFFICE 2162
OFFICE 2163
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OFFICE 2165
OFFICE 2166
STOR. 2172
SURVEY 2171
W.A. 2170
CONF. 2166
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CONF. 2115
UNFINISHED 2114
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CORRIDOR 2109
CORRIDOR 2108
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STAIRS 2105
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STO. 2065
STO. 2066
STO. 2067
STO. 2068
STO. 2069
STO. 2070
STO. 2071
STO. 2072
STO. 2073
STO. 2074
STO. 2075
STO. 2076
STO. 2077
STO.



NORTH

HVAC SECOND FLOOR - ZONE C

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

HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
3. REFER TO SHEET M2.1 FOR HVAC ENLARGED MEZZANINE FLOOR.
4. REFER TO SHEET M2.2 FOR HVAC ENLARGED MEZZANINE FLOOR.
5. REFER TO SHEET M2.3 FOR HVAC ENLARGED CHILLER PLANT.
6. COORDINATE LOCATION OF VAV BOX WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. VAV BOXES TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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EB 0000260
PROJECT NUMBER: 07014

SIGNATURE DATE
JOHN W. WELLS, III, PE
PE 0049347

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

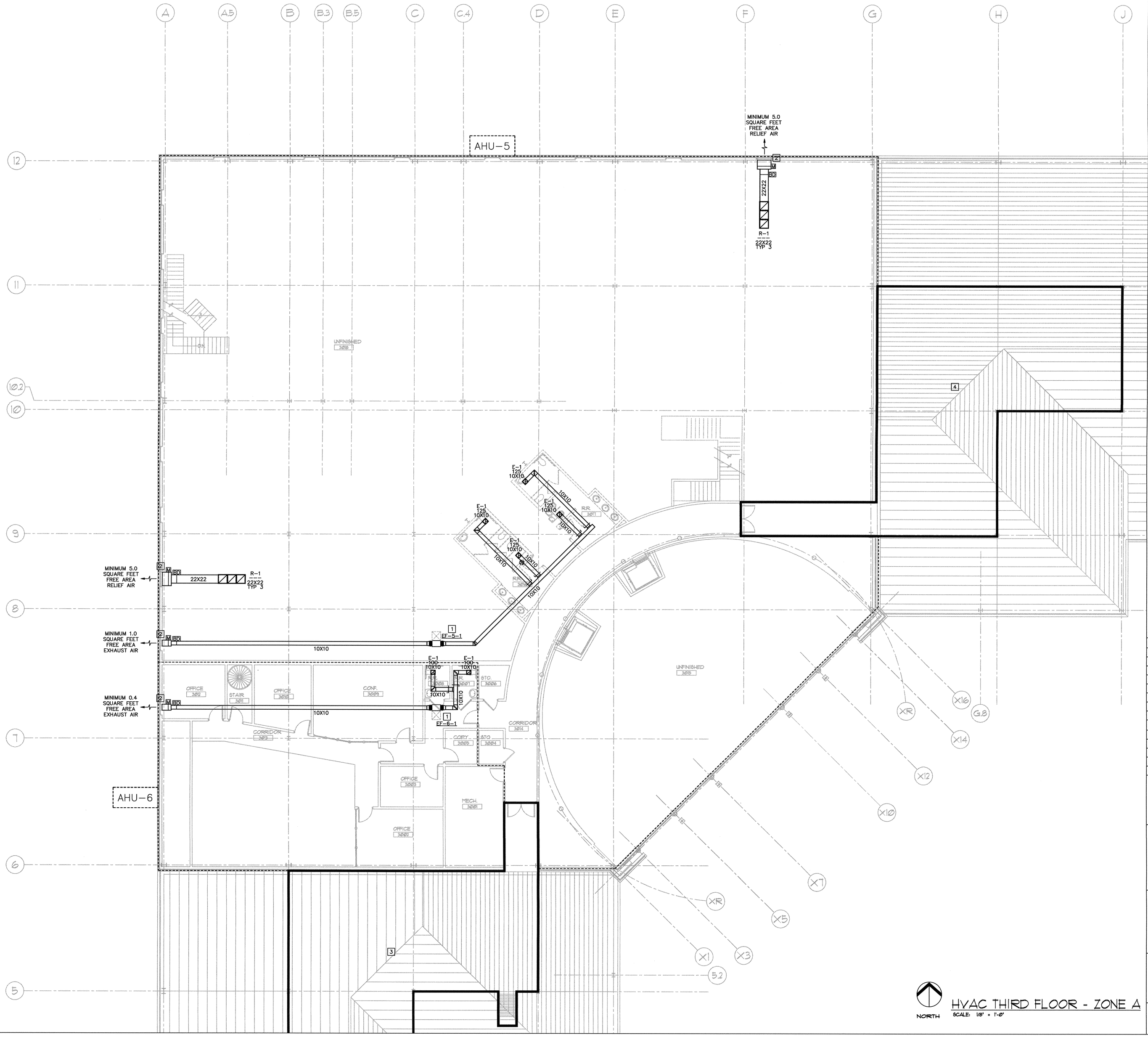
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC SECOND FLOOR ZONE C

SHEET NUMBER:

M1.2C



HVAC THIRD FLOOR - ZONE A

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

HVAC CODED NOTES:

1. COORDINATE LOCATION OF EXHAUST FAN WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. EXHAUST FANS TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
2. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX WITH BIRD SCREEN ON BACK SIDE OF LOUVER FOR DUCT CONNECTION. COORDINATE WITH MODEL, SIZE, AND LOCATIONS OF LOUVERS AS SHOWN ON THE ARCHITECTURAL DOCUMENTS. MAINTAIN MINIMUM FREE AREA AS SHOWN. PROVIDE INDUSTRIAL STYLE MOTORIZED DAMPER RATED FOR HIGH PRESSURE IN PLENUM BOX.
3. REFER TO SHEET M2.1 FOR HVAC ENLARGED MEZZANINE FLOOR.
4. REFER TO SHEET M2.2 FOR HVAC ENLARGED MEZZANINE FLOOR.
5. REFER TO SHEET M2.3 FOR HVAC ENLARGED CHILLER PLANT.
6. COORDINATE LOCATION OF VAV BOX WITH LAYIN CEILING GRID, LIGHTS, AND FIRE SPRINKLERS. MAINTAIN ADEQUATE ACCESS AS REQUIRED. VAV BOXES TO BE LOCATED 12" ABOVE CEILING GRID FOR EASE OF ACCESS.
7. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-01
DESIGN DEVELOPMENT	-	-	06-06-01
DD OWNER REVIEW	-	-	08-08-01
75% CONSTRUCTION DOCUMENTS	-	-	11-16-01
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Commission Number: 06318

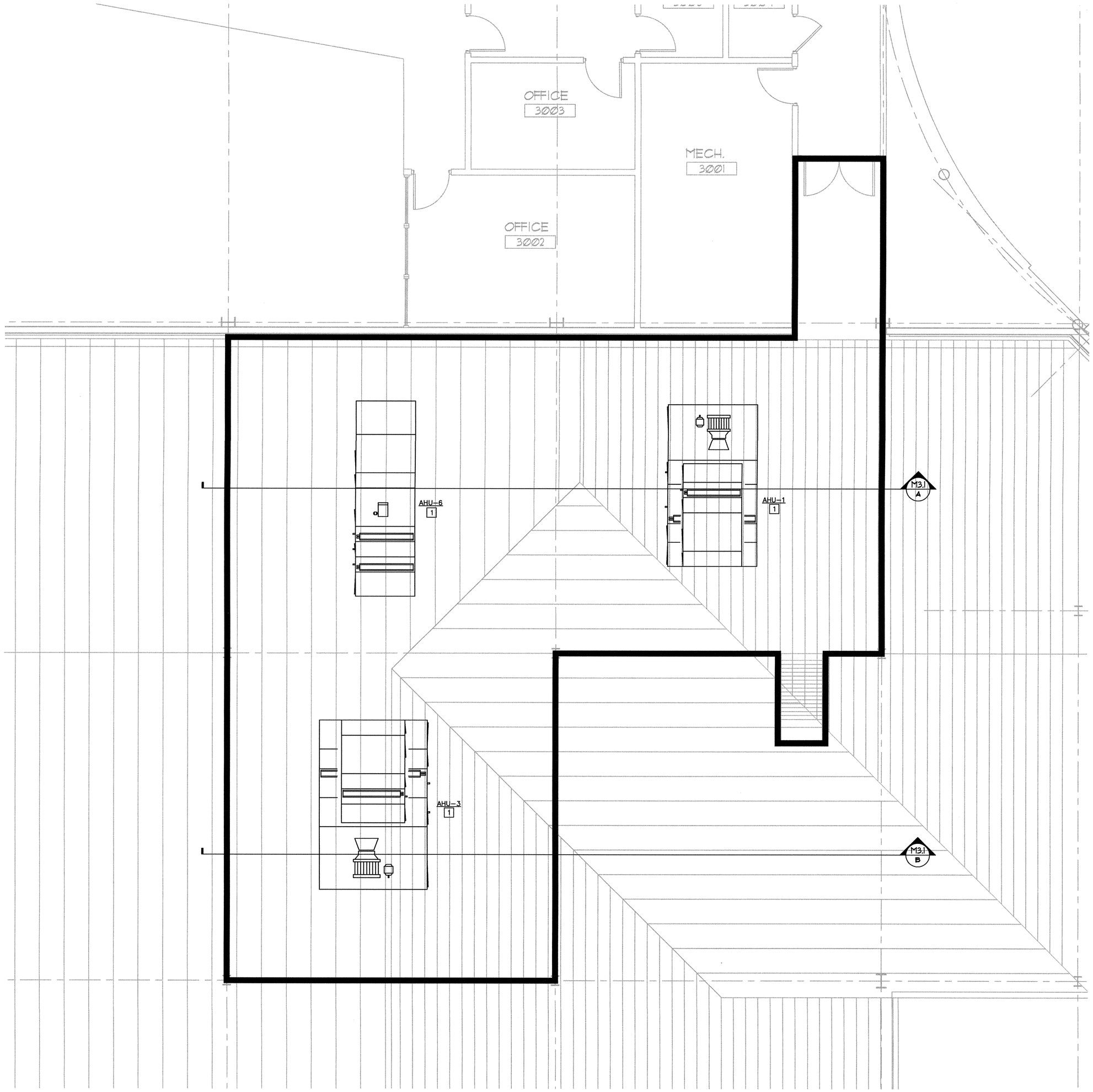
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC THIRD FLOOR ZONE A

SHEET NUMBER:
M1.3A



NORTH

HVAC ENLARGED MEZZANINE FLOOR

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

HVAC CODED NOTES:

1. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1.
2. PROVIDE 48" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR DUCT CONNECTION.
3. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR DUCT CONNECTION.
4. PIPE CONDENSATE TO NEAREST FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

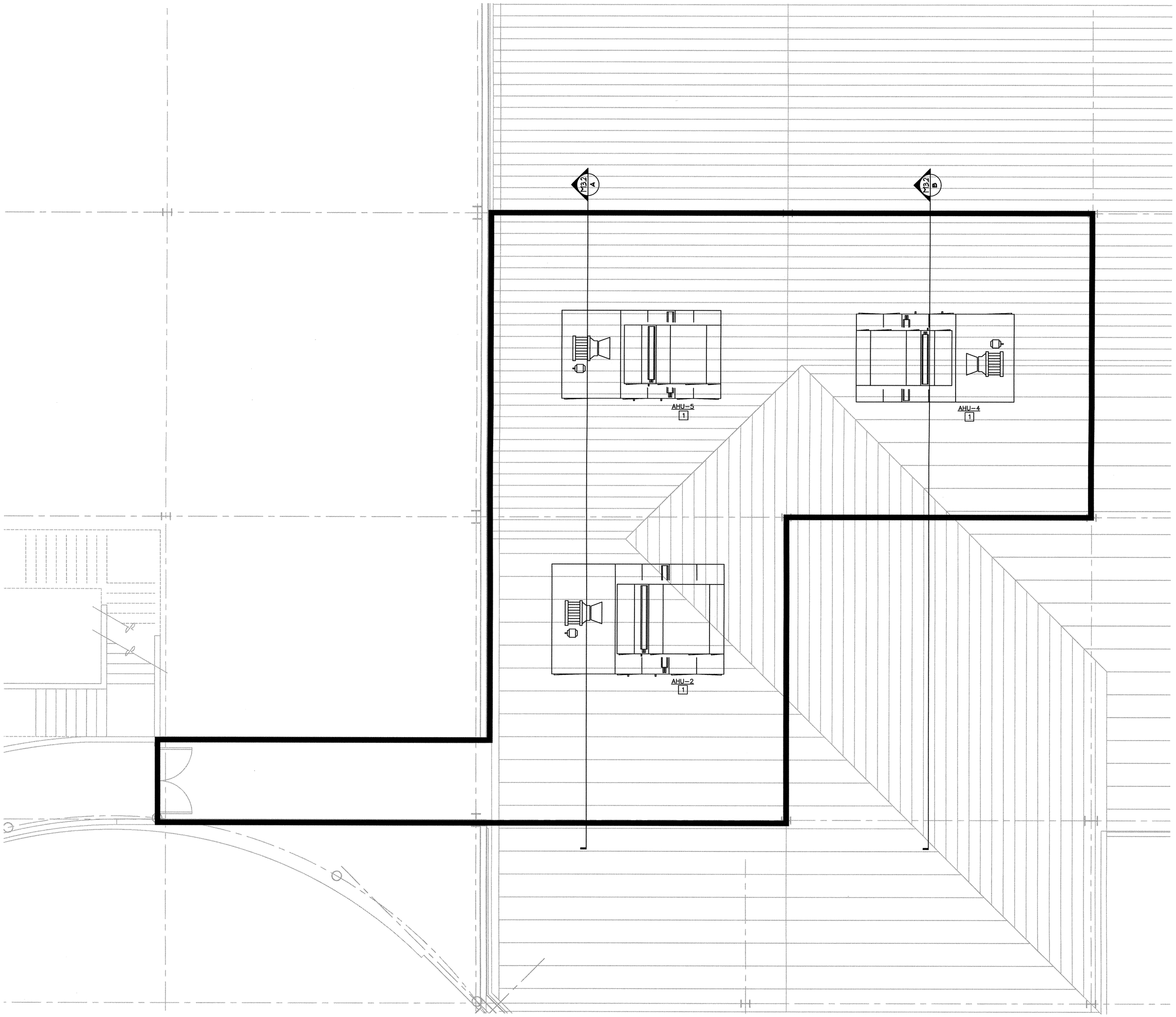
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC ENLARGED
MEZZANINE FLOOR

SHEET NUMBER:

M2.1



HVAC ENLARGED MEZZANINE FLOOR

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

NORTH

HVAC CODED NOTES:

1. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1.
2. PROVIDE 48" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR DUCT CONNECTION.
3. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR DUCT CONNECTION.
4. PIPE CONDENSATE TO NEAREST FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

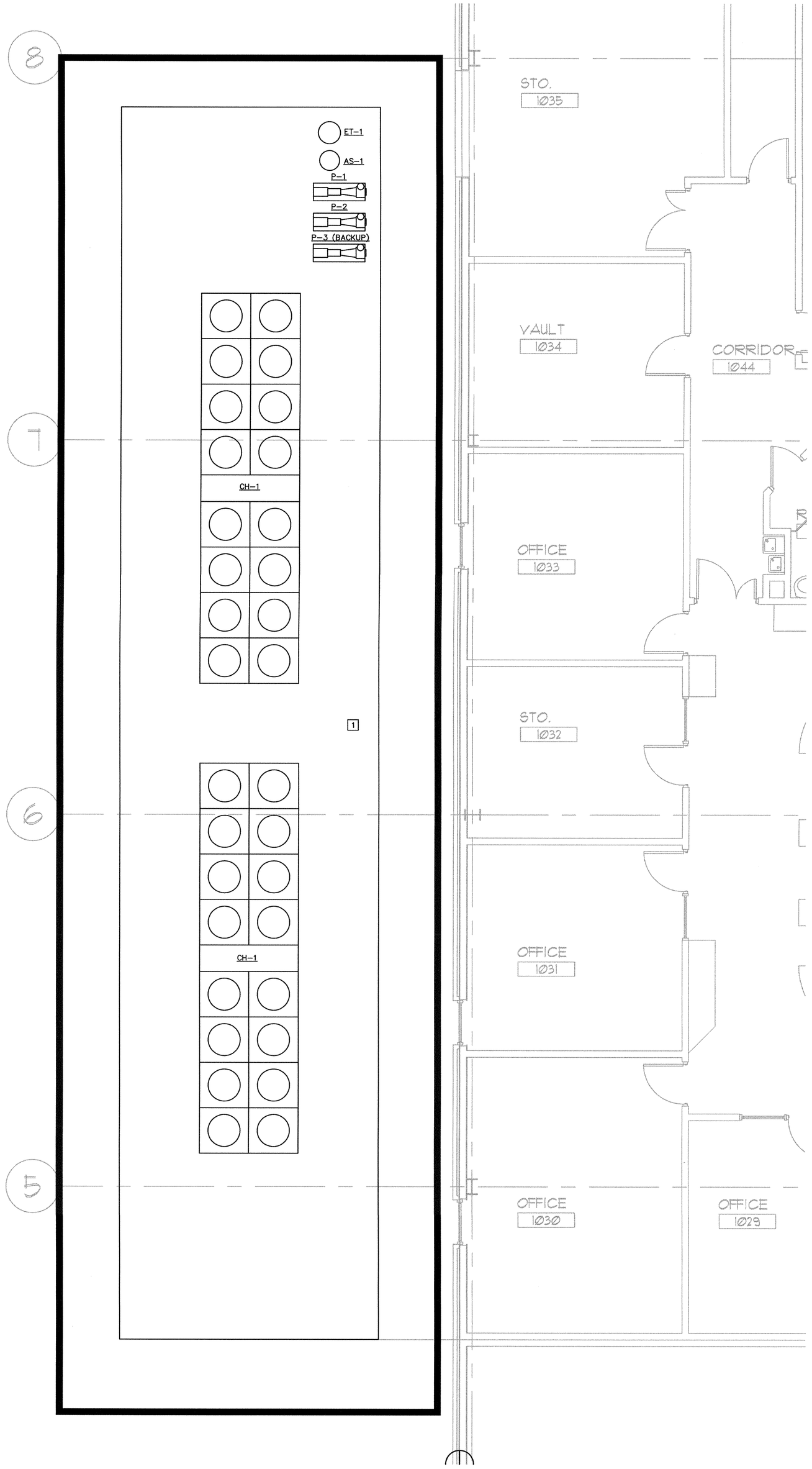
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC ENLARGED
MEZZANINE FLOOR

SHEET NUMBER:

M2.2



NORTH

HVAC ENLARGED CHILLER PLANT

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

HVAC CODED NOTES:

1 PROVIDE CONTINUOUS 4" THICK CONCRETE PAD UNDER EQUIPMENT AS SHOWN. PROVIDE ADDITIONAL 4" THICK CONCRETE PAD UNDER CHILLERS, PUMPS, AIR SEPARATOR AND EXPANSION TANK. BOLT ALL EQUIPMENT TO CONCRETE PAD WITH STAINLESS STEEL STRAPS AND STAINLESS STEEL SCREWS OR APPROVED HURRICANE TIE DOWN KITS. PROVIDE NEOPRENE PADS BETWEEN EQUIPMENT AND CONCRETE PAD.

NOTE:

NOT ALL HVAC CODED NOTES ARE APPLICABLE TO THIS SHEET.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PHONE: (813) 449-0225
FAX: (813) 449-0228
EB 0005855
PROJECT NUMBER: 07014

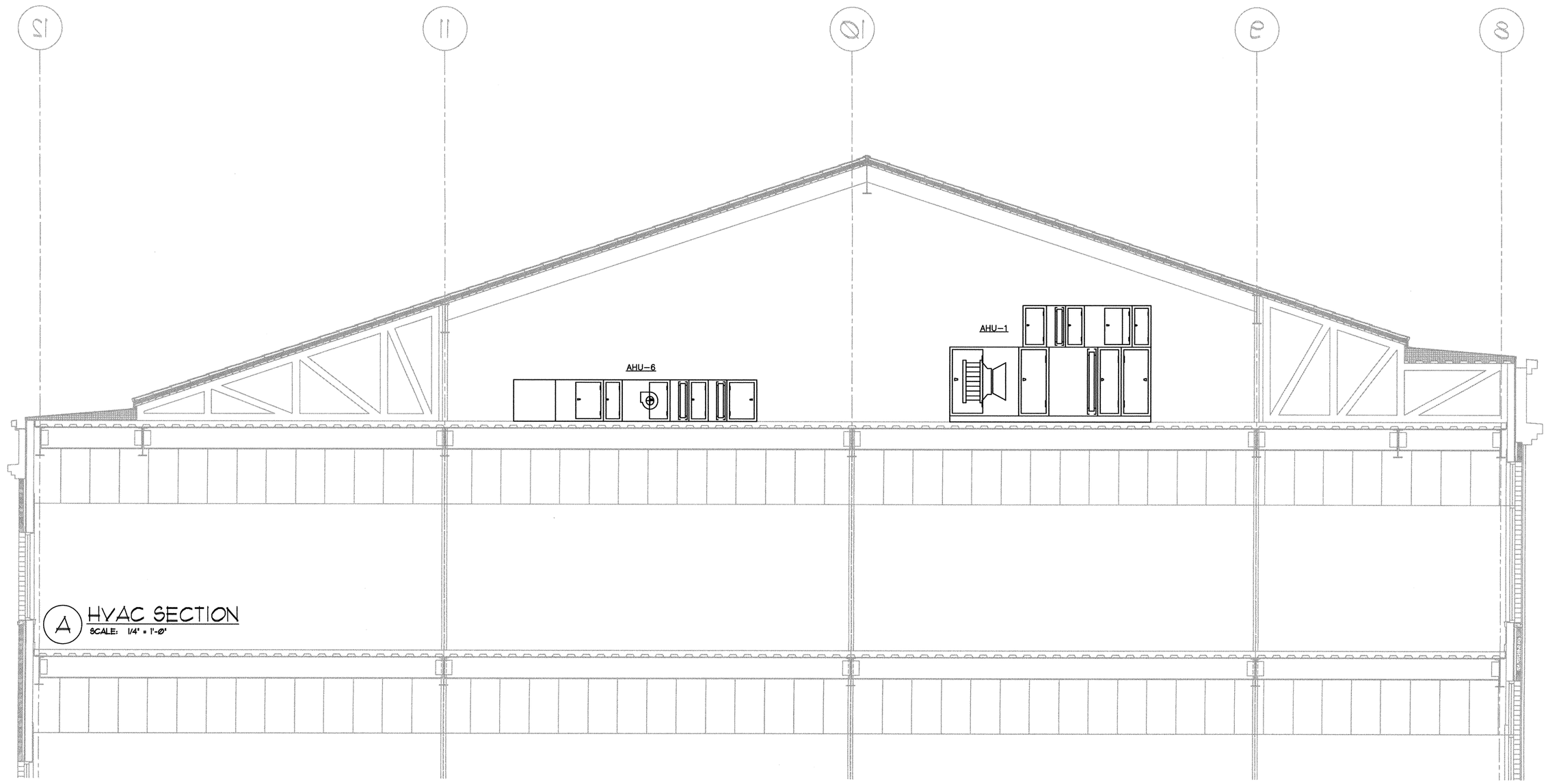
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PE 0049347

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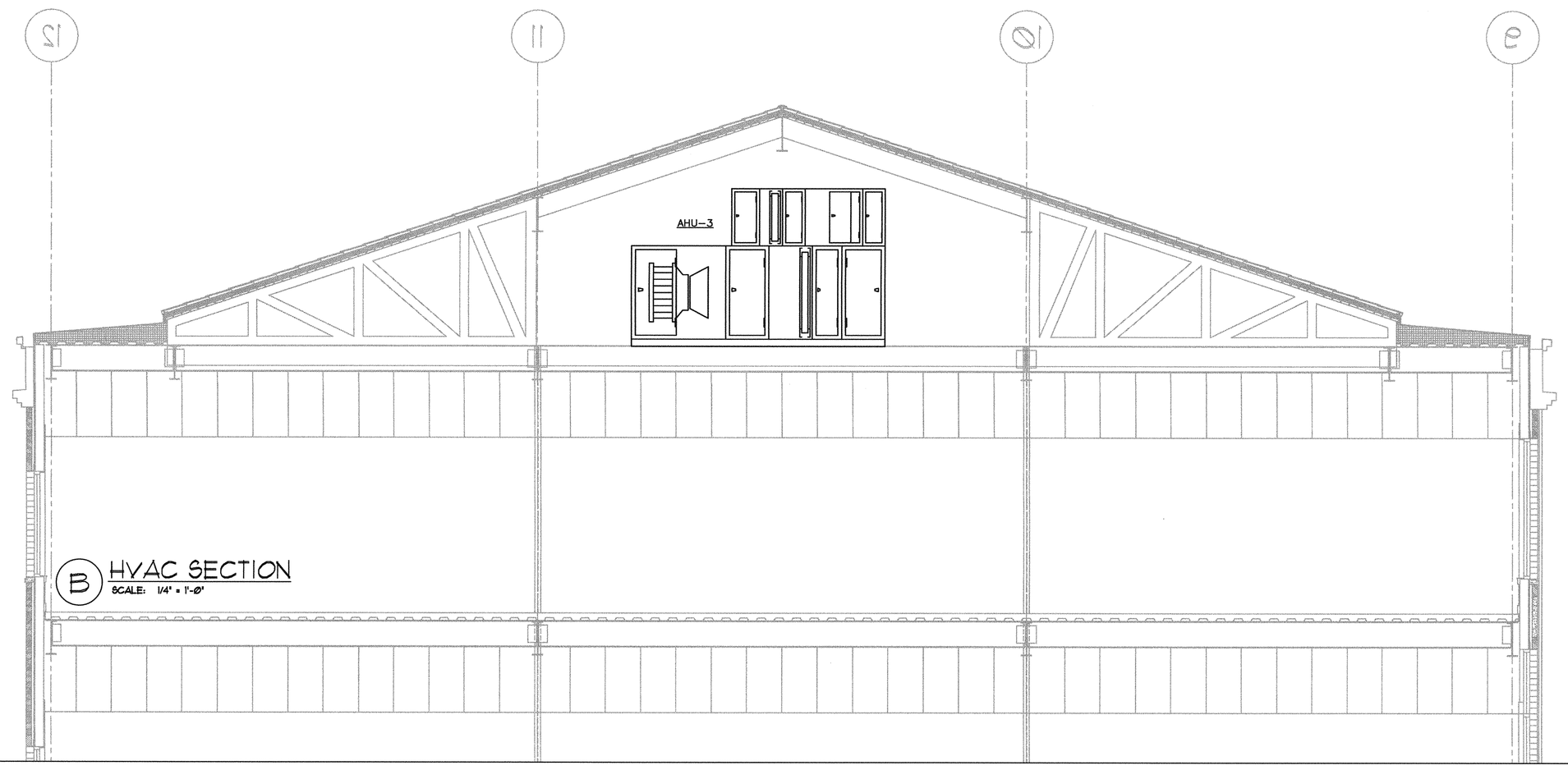
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC ENLARGED CHILLER PLANT

SHEET NUMBER:
M2.3



A HVAC SECTION
SCALE: 1/4" = 1'-0"



B HVAC SECTION
SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT NUMBER: 07014

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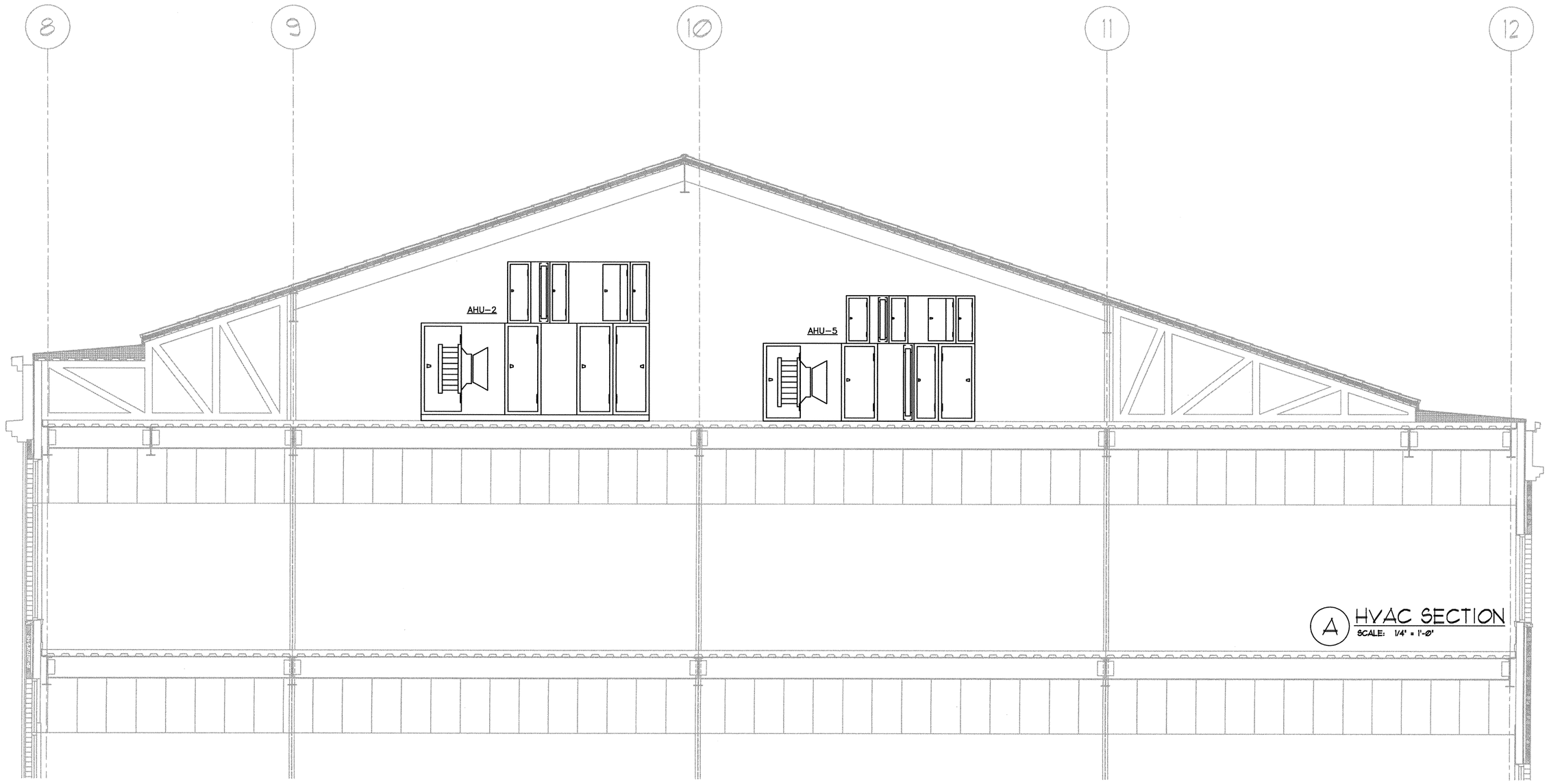
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

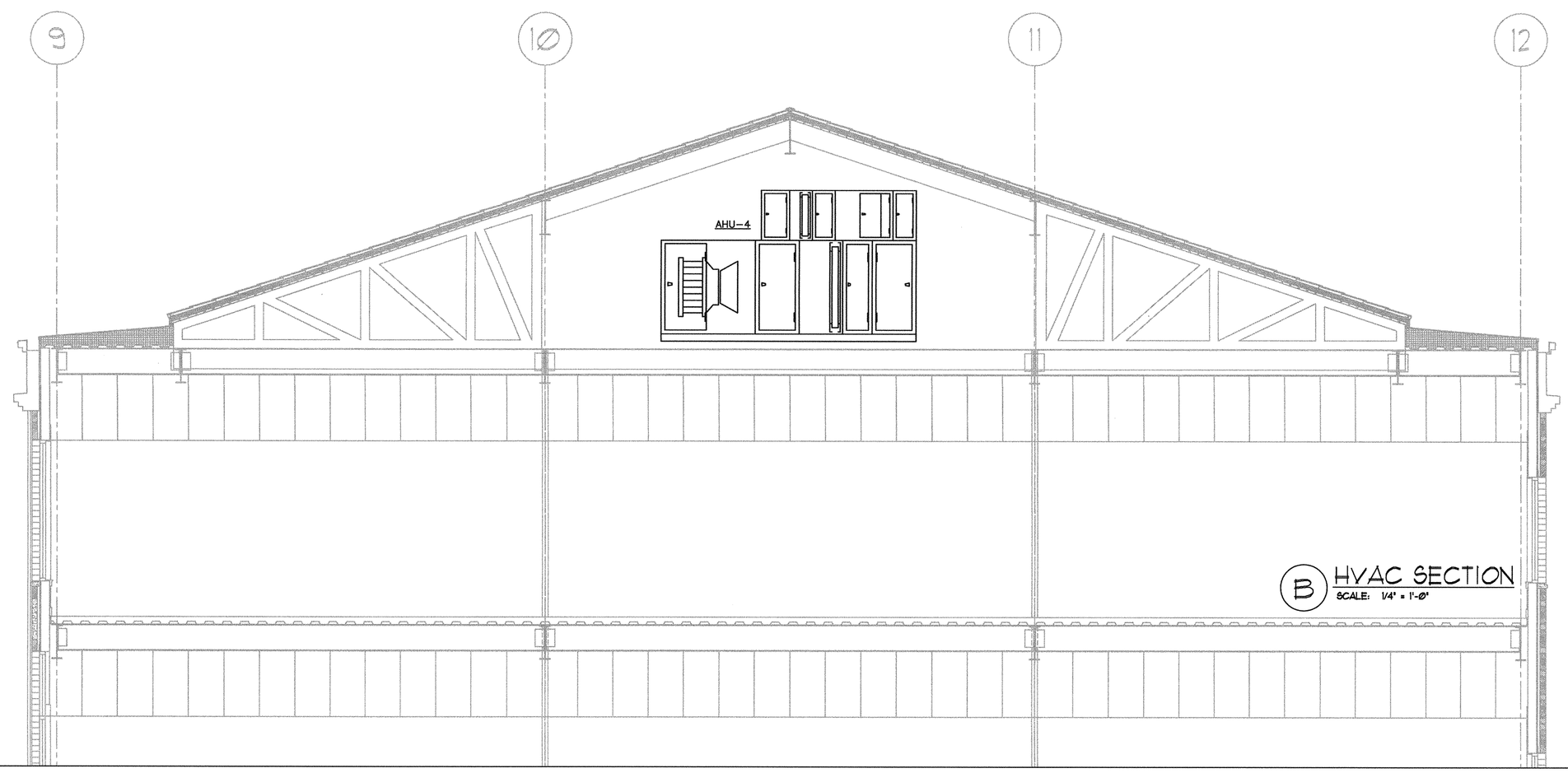
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SECTIONS

SHEET NUMBER:
M3.1



A HVAC SECTION
SCALE: 1/4" = 1'-0"



B HVAC SECTION
SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SECTIONS

SHEET NUMBER:
M3.2

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–1

Az	ZONE FLOOR AREA (SQ FT)	Storage rooms	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Office space	Lobbies	Office space	Office space	Office space	Storage roorns	Conference	Storage rooms	Storage rooms	Storage rooms	Storage rooms	Office space	Storage rooms	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	66	475	300	240	915	257	1100	1420	510	664	690	304	230	650	470	45	185	53	37	890	70	335	175	200
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0	3	1	1	4	1	5	0	2	10	4	1	1	0	24	0	1	0	0	4	0	2	1	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	0	5	5	5	5	5	5	0	5	5	5	5	5	0	5	0	0	0	0	5	0	5	5	5
Pz*Rp		0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.12	0.12	0.12	0.12	0.06	0.12	0.06	0.06	0.06
Az*Ra		0	15	5	5	20	5	25	0	10	50	20	5	5	0	120	0	0	0	0	20	0	10	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	7.92	28.5	18	14.4	54.9	15.42	66	85.2	30.6	39.84	41.4	18.24	13.8	78	28.2	5.4	22.2	6.36	4.44	53.4	8.4	20.1	10.5	12
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	8	44	23	19	75	20	91	85	41	90	61	23	19	78	148	5	22	6	4	73	8	30	16	17
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	200	935	460	430	1550	300	960	425	280	715	465	440	135	310	490	25	170	25	25	1430	60	415	115	125
Zp	PRIMARY OUTSIDE AIR FRACTION	100	467.5	230	215	775	150	480	212.5	140	357.5	232.5	220	67.5	155	245	12.5	85	12.5	12.5	715	30	207.5	57.5	62.5
		0.08	0.09	0.10	0.09	0.10	0.14	0.19	0.40	0.29	0.25	0.26	0.11	0.28	0.50	0.60	0.43	0.26	0.51	0.36	0.10	0.28	0.15	0.27	0.27

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Office space	Storage rooms	Office space	Office space	Storage rooms	Office space	Storage rooms	Storage rooms	Storage rooms	Corridors	Office space	Office space	Corridors		
Pz	ZONE POPULATION (# OF PEOPLE)	200	200	969	2780	248	208	250	224	355	600	178	95	75	305	1145	150	265		
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	5	32	1	0	1	0	0	3	1	0	0	0	14	1	0		
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	5	0	5	5	0	5	0	0	0	0	5	5	0		
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.12	0.06	0.12	0.12	0.12	0.06	0.06	0.06	0.06		
Az*Ra		5	5	25	160	5	0	5	0	0	15	5	0	0	0	70	5	0		
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	12	12	58.14	166.8	14.88	24.96	15	13.44	42.6	36	21.36	11.4	9	18.3	68.7	9	15.9		
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	17	17	83	327	20	25	20	13	43	51	21	11	9	18	139	14	16		
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	125	125	570	2795	300	130	300	135	200	525	170	25	25	90	900	110	105		
Zp	PRIMARY OUTSIDE AIR FRACTION	62.5	62.5	285	1397.5	150	65	150	67.5	100	262.5	85	12.5	12.5	45	450	55	52.5		
		0.27	0.27	0.29	0.23	0.13	0.38	0.13	0.20	0.43	0.19	0.25	0.91	0.72	0.41	0.31	0.25	0.30		

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	102
D	OCCUPANT DIVERSITY FACTOR	0.81
Vou	UNCORRECTED OUTSIDE AIR (CFM)	1735
Xs	MIXING RATIO	0.10
MAX Zp	MAX Zp	0.91
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.50
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	3469

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–2

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Corridors	Reception areas	Office space	Storage rooms	Storage rooms	Office space	Office space	Office space	Auditorium	Conference	Auditorium	Auditorium	Office space	Conference	Storage rooms	Lobbies	Office space	Storage rooms	Office space	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	145	93	247	102	430	405	86	140	140	225	150	166	3920	190	115	1400	300	869	55	936	260	225	185	185
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	0	1	4	0	0	1	1	1	3	4	300	4	1	100	2	10	1	6	1	2	1	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	0	5	5	0	0	5	5	5	5	5	5	5	5	5	0	5	5	0	5	5	5	5
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.12	0.06	0.06	0.06	0.06
Az*Rp		5	5	0	5	20	0	0	5	5	5	15	20	1500	20	5	500	0	50	5	0	5	10	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	8.7	5.58	14.82	6.12	25.8	48.6	10.32	8.4	8.4	13.5	9	9.96	235.2	11.4	6.9	84	36	52.14	3.3	112.32	15.6	13.5	11.1	11.1
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	14	11	15	11	46	49	10	13	13	19	24	30	1735	31	12	584	36	102	8	112	21	24	16	16
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	260	145	75	100	615	300	25	100	100	285	100	320	6000	165	100	2000	220	1700	80	400	265	150	200	200
Zp	PRIMARY OUTSIDE AIR FRACTION	130	72.5	37.5	50	307.5	150	12.5	50	50	142.5	50	160	3000	82.5	50	1000	110	850	40	200	132.5	75	100	100
		0.11	0.15	0.40	0.22	0.15	0.32	0.83	0.27	0.27	0.13	0.48	0.19	0.58	0.38	0.24	0.58	0.33	0.12	0.21	0.56	0.16	0.31	0.16	0.16

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Storage rooms	Office space	Office space	Office space	Office space	Office space	Storage rooms	Office space	Office space	Office space	Office space	Office space	Reception areas	Office space	Office space	Storage rooms	Storage rooms	Office space	Conference	Office space	Office space	Reception areas
Pz	ZONE POPULATION (# OF PEOPLE)	185	445	75	175	155	155	155	155	440	155	155	155	1380	175	455	270	295	1113	3294	460	1020	230	570	973
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	3	1	1	1	1	1	1	1	1	1	1	3	1	6	1	1	1	2	3	50	3	3	3
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	0	5	5	5	5	5	0	5	5	5	5	5	5	5	5	0	0	5	5	5	5	5
Pz*Rp		0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.06	0.06	0.06	0.06	0.06
Az*Rp		5	15	0	5	5	5	5	5	0	5	5	5	15	5	30	5	5	0	0	15	250	15	15	15
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	11.1	26.7	9	10.5	9.3	9.3	9.3	9.3	52.8	9.3	9.3	9.3	82.8	10.5	27.3	16.2	17.7	133.56	395.28	27.6	61.2	13.8	34.2	58.38
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	16	42	9	16	14	14	14	14	53	14	14	14	98	16	57	21	23	134	395	43	311	29	49	73
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	200	420	40	120	110	110	110	110	150	110	110	110	680	120	1350	760	750	1040	1850	335	1050	265	430	490
Zp	PRIMARY OUTSIDE AIR FRACTION	100	210	20	60	55	55	55	55	75	55	55	55	340	60	675	380	375	520	925	167.5	525	132.5	215	245
		0.16	0.20	0.45	0.26	0.26	0.26	0.26	0.26	0.70	0.26	0.26	0.26	0.29	0.26	0.08	0.06	0.06	0.26	0.43	0.25	0.59	0.22	0.23	0.30

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Storage rooms
Pz	ZONE POPULATION (# OF PEOPLE)	91	150	102	104	211	102	187	301	558	168
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	1	1	1	1	1	1	0	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	5	5	5	5	0	0
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12
Az*Ra		5	5	5	5	5	5	5	5	0	0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	5.46	9	6.12	6.24	12.66	6.12	11.22	18.06	33.48	20.16
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	10	14	11	11	18	11	16	23	33	20
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	90	380	350	150	630	130	420	465	1070	125
Zp	PRIMARY OUTSIDE AIR FRACTION	45	190	175	75	315	65	210	232.5	535	62.5
		0.23	0.07	0.06	0.15	0.06	0.17	0.08	0.10	0.06	0.32

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	400
D	OCCUPANT DIVERSITY FACTOR	0.73
Vou	UNCORRECTED OUTSIDE AIR (CFM)	3896
Xs	MIXING RATIO	0.14
MAX Zp	MAX Zp	0.83
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.50
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	7793

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–3

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Storage rooms	Office space	Storage rooms	Reception areas	Corridors	Office space	Office space	Office space	Corridors	Office space	Conference
Pz	ZONE POPULATION (# OF PEOPLE)	200	125	125	125	125	200	250	135	135	710	130	130	165	113	107	625	220	620	210	230	170	100	200	130
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1	3	0	1	1	1	0	1	5
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5	0	0	0	5	5	5	0	5	5
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Az*Rp		5	5	5	5	5	5	5	5	5	25	5	5	5	0	5	0	15	0	5	5	5	0	5	25
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	17	13	13	13	13	17	20	13	13	68	13	13	15	14	11	75	28	37	18	19	15	6	17	33
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	500	160	390	390	160	420	650	250	250	605	370	260	275	160	155	425	180	255	150	545	400	40	145	270
Zp	PRIMARY OUTSIDE AIR FRACTION	250	80	195	195	80	210	325	125	125	302.5	185	130	137.5	80	77.5	212.5	90	127.5	75	272.5	200	20	72.5	135
		0.07	0.16	0.06	0.06	0.16	0.08	0.06	0.10	0.10	0.22	0.07	0.10	0.11	0.17	0.15	0.35	0.31	0.29	0.23	0.07	0.08	0.30	0.23	0.24

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Storage rooms	Storage rooms	Storage rooms	Office space	Office space	Office space	Office space	Corridors	Corridors	Storage rooms	Office space	Office space	Office space	Office space	Storage rooms	Storage rooms	Storage rooms
Pz	ZONE POPULATION (# OF PEOPLE)	725	200	200	240	200	200	470	530	715	200	98	254	198	165	592	800	160	20	225	175	125	630	176	170
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	5	1	1	1	1	1	2	0	1	1	1	1	1	1	3	0	0	0	1	1	1	1	0	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	5	5	5	0	0	0	0	5	5	5	5	0	0	0	5	5	5	0	0	0
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.06	0.12	0.12	0.12
Az*Rp		25	5	5	5	5	5	10	0	0	0	0	5	5	5	15	0	0	0	5	5	5	0	0	0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	43.5	12	12	14.4	12	12	28.2	31.8	85.8	24	11.76	15.24	11.88	9.9	35.52	48	9.6	2.4	13.5	10.5	7.5	75.6	21.12	20.4
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	69	17	17	19	17	17	38	32	86	24	12	20	17	15	51	48	10	2	19	16	13	76	21	20
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	660	145	285	310	290	290	450	220	310	100	40	760	460	300	1030	330	65	25	275	115	100	200	75	75
Zp	PRIMARY OUTSIDE AIR FRACTION	330	72.5	142.5	155	145	145	225	110	155	50	20	380	230	150	515	165	32.5	12.5	137.5	57.5	50	100	37.5	37.5
		0.21	0.23	0.12	0.13	0.12	0.12	0.17	0.29	0.55	0.48	0.59	0.05	0.07	0.10	0.10	0.29	0.30	0.19	0.13	0.27	0.25	0.76	0.56	0.54

Az	ZONE FLOOR AREA (SQ FT)	Corridors	Office space	Office space	Reception areas	Corridors	Office space	Office space	Office space	Office space	Corridors	Office space	Reception areas	Office space	Office space	Conference	Storage rooms	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	590	175	115	297	89	200	180	180	200	1036	200	470	176	196	700	120	200	225	220	370	330	300	370	500
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0	1	1	4	0	1	1	1	1	0	1	6	1	1	40	1	1	1	1	1	1	1	2	3
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	0	5	5	5	0	5	5	5	5	0	5	5	5	5	5	0	5	5	5	5	5	5	5	5
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Az*Rp		0	5	5	5	0	5	5	5	5	0	5	5	5	5	5	0	5	5	5	5	5	5	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	35.4	10.5	6.9	17.82	5.34	12	10.8	10.8	12	62.16	12	28.2	10.56	11.76	42	14.4	12	13.5	13.2	22.2	19.8	18	22.2	30
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	35	16	12	38	5	17	16	16	17	62	17	58	16	17	242	14	17	19	18	27	25	23	32	45
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	1210	250	100	190	25	270	115	115	270	300	120	320	115	115	770	145	270	130	125	315	400	230	330	450
Zp	PRIMARY OUTSIDE AIR FRACTION	605	125	50	95	12.5	135	57.5	57.5	135	150	60	160	57.5	57.5	385	72.5	135	65	62.5	157.5	200	115	165	225
		0.06	0.12	0.24	0.40	0.43	0.13	0.27	0.27	0.13	0.41	0.28	0.36	0.27	0.29	0.63	0.20	0.13	0.28	0.29	0.17	0.12	0.20	0.20	0.20

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Storage rooms	Storage rooms	Storage rooms	Storage rooms	Storage rooms
Pz	ZONE POPULATION (# OF PEOPLE)	360	200	205	235	36	63	62	62	50
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	2	1	1	2	0	0	0	0	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	0	0	0	0	0
Pz*Rp		0.06	0.06	0.06	0.06	0.12	0.12	0.12	0.12	0.12
Az*Rp		10	5	5	10	0	0	0	0	0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	21.6	12	12.3	14.1	4.32	7.56	7.44	7.44	6
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	32	17	17	24	4	8	7	7	6
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	230	120	120	195	25	25	25	25	25
Zp	PRIMARY OUTSIDE AIR FRACTION	115	60	60	97.5	12.5	12.5	12.5	12.5	12.5
		0.27	0.28	0.29	0.25	0.35	0.60	0.60	0.60	0.48

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	133
D	OCCUPANT DIVERSITY FACTOR	1.00
Vou	UNCORRECTED OUTSIDE AIR (CFM)	2111
Xs	MIXING RATIO	0.10
MAX Zp	MAX Zp	0.76
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.50
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	4222

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M4.1

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–4

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Storage rooms	Conference	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Storage rooms	Storage rooms	Storage rooms	Storage rooms	Office space	Storage rooms	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	180	145	155	175	28	838	145	160	145	185	150	300	356	2609	908	115	188	45	48	115	22	115	115	115
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	1	1	0	10	1	1	1	1	1	3	3	13	0	0	0	0	0	1	0	1	1	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	0	5	5	5	5	5	5	5	5	5	0	0	0	0	0	5	0	5	5	5
Pz*Rp		0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.12	0.12	0.06	0.12	0.06	0.06	0.06
Az*Ra		5	5	5	5	0	50	5	5	5	5	5	5	15	65	0	0	0	0	0	5	0	5	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	10.8	8.7	9.3	10.5	3.36	50.28	8.7	9.6	8.7	11.1	9	18	21.36	156.54	54.48	13.8	22.56	5.4	5.76	6.9	2.64	6.9	6.9	6.9
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	16	14	14	16	3	100	14	15	14	16	14	23	36	222	54	14	23	5	6	12	3	12	12	12
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	180	170	180	180	25	385	105	110	105	115	105	100	290	1865	2350	50	250	25	25	110	25	295	110	630
Zp	PRIMARY OUTSIDE AIR FRACTION	90	85	90	90	12.5	192.5	52.5	55	52.5	57.5	52.5	50	145	932.5	1175	25	125	12.5	12.5	55	12.5	147.5	55	315
		0.18	0.16	0.16	0.17	0.27	0.52	0.26	0.27	0.26	0.28	0.27	0.46	0.25	0.24	0.05	0.55	0.18	0.43	0.46	0.22	0.21	0.08	0.22	0.04

Az	ZONE FLOOR AREA (SQ FT)	Corridors	Office space	Storage rooms	Reception areas	Conference	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Office space	Office space	Office space	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	204	220	70	905	245	130	130	255	140	140	110	128	137	140	405	125	120	500	270	140	140	140	145	130
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0	1	0	9	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	0	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	5	5	5	5
Pz*Rp		0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Az*Ra		0	5	0	45	40	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	5	5	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	12.24	13.2	8.4	54.3	14.7	7.8	7.8	15.3	8.4	8.4	6.6	7.68	8.22	8.4	24.3	7.5	7.2	30	16.2	8.4	8.4	8.4	8.7	7.8
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	12	18	8	99	55	13	13	20	13	13	12	13	13	13	29	13	12	30	21	13	13	13	14	13
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	85	735	35	445	215	115	115	275	180	185	160	115	120	120	180	115	115	220	290	180	180	180	185	400
Zp	PRIMARY OUTSIDE AIR FRACTION	42.5	367.5	17.5	222.5	107.5	57.5	57.5	137.5	90	92.5	80	57.5	60	60	90	57.5	57.5	110	145	90	90	90	92.5	200
		0.29	0.05	0.48	0.45	0.51	0.22	0.22	0.15	0.15	0.14	0.15	0.22	0.22	0.22	0.33	0.22	0.21	0.27	0.15	0.15	0.15	0.15	0.15	0.06

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Reception areas	Office space	Office space	Office space	Storage rooms	Office space	Conference	Storage rooms	Office space	Office space	Office space	Office space	Corridors
Pz	ZONE POPULATION (# OF PEOPLE)	675	110	115	118	145	180	128	128	215	265	190	290	260	190	100	100	290	600	22	106	100	100	305	854
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	4	1	1	1	1	1	1	1	1	1	1	5	1	1	1	0	1	15	0	1	1	1	2	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	0	5	5	5	5	0
Pz*Rp		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.12	0.06	0.06	0.06	0.06	0.06
Az*Ra		20	5	5	5	5	5	5	5	5	5	5	25	5	5	5	0	5	75	0	5	5	5	10	0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	40.5	6.6	6.9	7.08	8.7	10.8	7.68	7.68	12.9	15.9	11.4	17.4	15.6	11.4	6	12	17.4	36	2.64	6.36	6	6	18.3	51.24
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	61	12	12	12	14	16	13	13	18	21	16	42	21	16	11	12	22	111	3	11	11	11	28	51
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	530	250	250	360	380	500	260	380	415	440	405	460	170	140	105	40	330	460	25	105	105	105	200	350
Zp	PRIMARY OUTSIDE AIR FRACTION	265	125	125	180	190	250	130	190	207.5	220	202.5	230	85	70	52.5	20	165	230	12.5	52.5	52.5	52.5	100	175
		0.23	0.09	0.10	0.07	0.07	0.06	0.10	0.07	0.09	0.10	0.08	0.18	0.24	0.23	0.21	0.60	0.14	0.48	0.21	0.22	0.21	0.21	0.28	0.29

Az	ZONE FLOOR AREA (SQ FT)	Storage rooms
Pz	ZONE POPULATION (# OF PEOPLE)	1480
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	0
Pz*Rp		0.12
Az*Ra		0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	177.6
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	178
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	1000
Zp	PRIMARY OUTSIDE AIR FRACTION	500
		0.36

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	90
D	OCCUPANT DIVERSITY FACTOR	0.76
Vou	UNCORRECTED OUTSIDE AIR (CFM)	1747
Xs	MIXING RATIO	0.09

MAX Zp	MAX Zp	0.60
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.50
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	3493

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–5

Az	ZONE FLOOR AREA (SQ FT)	Storage rooms	Corridors	Office space	Storage rooms	Storage rooms	Office space	Storage rooms	Storage rooms
Pz	ZONE POPULATION (# OF PEOPLE)	40	830	3310	215	215	14800	1480	45
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0	0	17	0	0	74	0	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	0	0	5	0	0	5	0	0
Pz*Rp		0.12	0.06	0.06	0.12	0.12	0.06	0.12	0.12
Az*Ra		0	0	85	0	0	370	0	0
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	4.8	49.8	198.6	25.8	25.8	888	177.6	5.4
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	5	50	284	26	26	1258	178	5
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	25	355	4660	100	100	13000	1000	25
Zp	PRIMARY OUTSIDE AIR FRACTION	12.5	177.5	2330	50	50	6500	500	12.5
		0.38	0.28	0.12	0.52	0.52	0.19	0.36	0.43

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	91
D	OCCUPANT DIVERSITY FACTOR	0.99
Vou	UNCORRECTED OUTSIDE AIR (CFM)	1826
Xs	MIXING RATIO	0.09

MAX Zp	MAX Zp	0.52
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.60
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	3043

OUTSIDE AIR CALCULATIONS PER ASHRAE STANDARD 62.1–2004
AHU–6

Az	ZONE FLOOR AREA (SQ FT)	Office space	Office space	Storage rooms	Corridors	Storage rooms	Office space	Office space	Office space	Storage rooms	Storage rooms	Office space	Office space	Conference	Storage rooms	Storage rooms	Corridors	Office space	Office space	Office space
Pz	ZONE POPULATION (# OF PEOPLE)	150	118	35	195	66	141	198	167	198	1406	179	180	130	40	40	50	52	125	245
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	1	1	0	0	0	1	1	1	0	4	1	1	10	0	0	0	1	1	1
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	5	5	0	0	0	5	5	5	0	0	5	5	5	0	0	0	5	5	5
Pz*Rp		0.06	0.06	0.12	0.06	0.12	0.06	0.06	0.06	0.12	0.12	0.06	0.06	0.06	0.12	0.12	0.06	0.06	0.06	0.06
Az*Ra		5	5	0	0	0	5	5	5	0	0	5	5	50	0	0	0	5	5	5
Ez	TABLE 6.2 ZONE AIR DISTRIBUTION EFFECTIVENESS	9	7.08	4.2	11.7	7.92	8.46	11.88	10.02	23.76	168.72	10.74	10.8	7.8	4.8	4.8	3	3.12	7.5	14.7
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	14	12	4	12	8	13	17	15	24	169	16	16	58	5	5	3	8	13	20
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	105	100	25	55	25	100	170	250	1030	925	270	140	180	25	25	25	130	115	160
Zp	PRIMARY OUTSIDE AIR FRACTION	105	100	25	55	25	100	170	250	1030	925	270	140	180	25	25	25	130	115	160
		0.13	0.12	0.17	0.21	0.32	0.13	0.10	0.06	0.02	0.18	0.06	0.11	0.32	0.19	0.19	0.12	0.06	0.11	0.12

Ps	MAXIMUM SYSTEM POPULATION (# OF PEOPLE)	24
D	OCCUPANT DIVERSITY FACTOR	1.00
Vou	UNCORRECTED OUTSIDE AIR (CFM)	430
Xs	MIXING RATIO	0.11

MAX Zp	MAX Zp	0.32
Ev	TABLE 6.3 SYSTEM VENTILATION EFFICIENCY	0.80
Vot	MINIMUM OUTSIDE AIR REQUIRED (CFM)	538

BUILDING AIR BALANCE SUMMARY

MARK	OUTSIDE AIR CFM	EXHAUST AIR CFM
AHU–1	3500	---
AHU–2	8000	---
AHU–3	4500	---
AHU–4	3500	---
AHU–5	4200	---
EF–1–1	---	300
EF–1–2	---	300
EF–1–3	---	400
EF–2–1	---	800
EF–2–2	---	200
EF–2–3	---	450
EF–3–1	---	700
EF–4–1	---	800
EF–5–1	---	500
EF–6–1	---	200
BUILDING TOTAL:	23700	4650

19050 CFM POSITIVE BUILDING PRESSURE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT NUMBER: 07014

SIGNATURE DATE
JOHN W. WELLS, III, PE
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M4.2

COMPUTER ROOM UNIT WITH PRIMARY CHILLED WATER COIL AND BACKUP DX COIL SCHEDULE		
MARK	----	AHU-7
PRIMARY CHILLED WATER COOLING COIL		
TOTAL CAPACITY	BTUH	266,700
SENSIBLE CAPACITY	BTUH	230,400
TOTAL AIR FLOW	CFM	10,000
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	70.0/58.4
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	48.8/48.6
COOLING COIL (MIN/MAX)	ROWS/FINS PER INCH	3/12
COOLING COIL MAX FACE VEL.	FPM	409
COOLING COIL MAX PRESS. DROP	IN WG	0.3
CHILLED WATER FLOW	G.P.M.	75.0
CHILLED WATER TEMP (ENT./LVG.)	DEG F/DEG F	45/55
MAX WATER PRESS. DROP	FT WG	10
BACKUP DX COOLING COIL		
TOTAL CAPACITY	BTUH	308,600
SENSIBLE CAPACITY	BTUH	253,300
TOTAL AIR FLOW	CFM	10,000
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	70.0/58.4
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	48.6/48.5
COOLING COIL (MIN/MAX)	ROWS/FINS PER INCH	5/12
COOLING COIL MAX FACE VEL.	FPM	409
COOLING COIL MAX PRESS. DROP	IN WG	0.5
SCR ELECTRIC REHEATER		
LOCATION	----	IN UNIT
TOTAL CAPACITY	KW/STEPS	22.5/3
STEAM HUMIDIFIER		
LOCATION	----	IN UNIT
TOTAL CAPACITY	LBS/H	30.0
TOTAL CAPACITY	KW	10.2
FAN SECTION		
TOTAL AIR FLOW	CFM	10,000
OUTSIDE AIR FLOW	CFM	0
EXTERNAL STATIC PRESSURE	IN WG	0.5
TOTAL STATIC PRESSURE	IN WG	1.6
FAN TYPE	----	CONSTANT
DRIVE	----	BELT
FAN MOTOR	HP	10
FAN FLA	AMPS	14.0
REFRIGERANT TYPE	----	R-22
NO. OF CIRCUITS	----	2
COMPRESSOR	NO.	2
COMPRESSOR (RLA EACH)	AMPS	21.8
TOTAL UNIT MCA	AMPS	79.1
TOTAL UNIT MOCP	AMPS	90
ELECTRICAL	V/PH/HZ	480/3/60
FILTER	MERV	8
WEIGHT	LBS	2100
MANUFACTURER	----	DATA AIRE
MODEL	----	DAAU-2634-C
NOTES	----	1,2,3,4,5,6,7,8
BACKUP DX COIL CONDENSER		
MARK	----	C-7
CAPACITY	BTUH	308,600
AMBIENT TEMP.	DEG F	95
CONDENSER FAN	NO./HP	3/0.75
CONDENSER FAN (FLA EACH)	AMPS	2.1
CONDENSING UNIT MCA	AMPS	6.8
CONDENSING UNIT MOCP	AMPS	15
ELECTRICAL	V/PH/HZ	480/3/60
WEIGHT	LBS	965
MANUFACTURER	----	DATA AIRE
MODEL	----	DARC-2834

NOTES:
1. PROVIDE FLOOR MOUNTED UNIT WITH FRONT FACE RETURN AND TOP DUCTED SUPPLY.
2. PROVIDE FACTORY MOUNTED THRU DOOR DISCONNECT ON INDOOR UNIT. OUTDOOR AIR COOLED CONDENSER DISCONNECT TO BE PROVIDED BY DIVISION 26.
3. UNIT TO BE CONTROLLED BY FACTORY MICROPROCESSOR. PROVIDE UNIT MOUNTED CONTROLLER WITH FULL TEMPERATURE AND HUMIDITY READOUTS AND SETPOINT CHANGE CAPABILITY.
4. PROVIDE STAINLESS STEEL DRAIN PAN.
5. PROVIDE INTERNAL AND FACTORY WIRED CONDENSATE PUMP WITH STAINLESS STEEL RESERVOIR.
6. PROVIDE INTERNAL AND FACTORY WIRED SMOKE DETECTOR.
7. PROVIDE UNIT WITH FACTORY MOUNTED HOT GAS BYPASS ON BOTH CIRCUITS.
8. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S SPECIFICATIONS.

SINGLE PATH AIR HANDLING UNIT WITH PRIMARY CHILLED WATER COIL AND BACKUP DX COIL SCHEDULE		
MARK	----	AHU-6
PRIMARY CHILLED WATER COOLING COIL		
TOTAL CAPACITY	BTUH	129,240
SENSIBLE CAPACITY	BTUH	95,910
TOTAL AIR FLOW	CFM	3855
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	77.6/65.2
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55.0/54.1
COOLING COIL (MIN/MAX)	ROWS/FINS PER INCH	6/7
COOLING COIL MAX FACE VEL.	FPM	400
COOLING COIL MAX PRESS. DROP	IN WG	0.41
CHILLED WATER FLOW	G.P.M.	25.8
CHILLED WATER TEMP (ENT./LVG.)	DEG F/DEG F	45/55
MAX WATER PRESS. DROP	FT WG	6.4
BACKUP DX COOLING COIL		
TOTAL CAPACITY	BTUH	122,680
SENSIBLE CAPACITY	BTUH	95,660
TOTAL AIR FLOW	CFM	3855
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	77.6/65.2
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55.0/54.7
COOLING COIL (MIN/MAX)	ROWS/FINS PER INCH	6/10
COOLING COIL MAX FACE VEL.	FPM	400
COOLING COIL MAX PRESS. DROP	IN WG	0.53
ELECTRIC STRIP HEAT COIL		
AIRFLOW	CFM	3855
TOTAL CAPACITY	KW/STEPS	25/SCR
UNIT MCA	AMPS	36.8
UNIT MOCP	AMPS	50
ELECTRICAL	V/PH/HZ	480/3/60
FAN SECTION		
TOTAL AIR FLOW	CFM	3855
OUTSIDE AIR FLOW	CFM	550
EXTERNAL STATIC PRESSURE	IN WG	1.5
TOTAL STATIC PRESSURE	IN WG	3.2
FAN TYPE	----	CONSTANT
DRIVE	----	BELT
FAN MOTOR	HP	5.0
FAN FLA	AMPS	7.6
TOTAL UNIT MCA	AMPS	9.5
TOTAL UNIT MOCP	AMPS	15
ELECTRICAL	V/PH/HZ	480/3/60
FILTER	MERV	8
WEIGHT	LBS	2300
MANUFACTURER	----	TRANE
MODEL	----	MCCB12
NOTES	----	1,2,3,4,5,6,7,8,9
BACKUP DX COIL CONDENSING UNIT		
MARK	----	CU-6
CAPACITY	BTUH	120,000
AMBIENT TEMP.	DEG F	95
SUCTION TEMP.	DEG F	46
REFRIGERANT TYPE	----	R-22
NO. OF CIRCUITS	----	2
COMPRESSOR	NO./HP	2 / 5.0
COMPRESSOR (RLA EACH)	AMPS	9.4
COMPRESSOR (LRA EACH)	AMPS	63
CONDENSER FAN	NO./HP	1 / 1.0
CONDENSER FAN (FLA EACH)	AMPS	2.7
EER/SEER	----	11.5
CONDENSING UNIT MCA	AMPS	23.9
CONDENSING UNIT MOCP	AMPS	30
ELECTRICAL	V/PH/HZ	480/3/60
WEIGHT	LBS	450
MANUFACTURER	----	TRANE
MODEL	----	TTA120B4

NOTES:
1. PROVIDE CENTRAL STATION SOLID DOUBLE WALL CONSTRUCTION.
2. PROVIDE SEPARATE POWER CONNECTIONS FOR AIR HANDLER FAN, ELECTRIC HEATER AND CONDENSING UNIT. ALL CONNECTIONS TO BE ON EMERGENCY POWER. DISCONNECTS FOR HEATER AND CONDENSING UNIT PROVIDED AND INSTALLED BY DIVISION 26. STARTER AND DISCONNECT FOR AIR HANDLER FAN PROVIDED AND INSTALLED BY DIVISION 26.
3. PROVIDE STAINLESS STEEL COIL CASINGS.
4. PROVIDE STAINLESS STEEL DRAIN PAN, POSITIVELY SLOPED IN TWO DIRECTIONS.
5. PROVIDE 5" BASE RAILS UNDER UNIT.
6. FAN NOT TO EXCEED 2000 RPM.
7. COILS NOT TO EXCEED 500 FPM.
8. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION.
9. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

DUAL PATH CHILLED WATER AIR HANDLING UNIT SCHEDULE						
AHU MARK	----	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5
OUTSIDE AIR PATH FILTER BOX						
AIRFLOW	CFM	3500	8000	4500	3500	4200
OUTSIDE AIR PRE-FILTER	MERV	7	7	7	7	7
OUTSIDE AIR AFTER-FILTER	MERV	12	12	12	12	12
OUTSIDE AIR PATH ELECTRIC STRIP PREHEAT COIL						
AIRFLOW	CFM	3500	8000	4500	3500	4200
TOTAL CAPACITY	KW/STEPS	35/SCR	75/SCR	45/SCR	35/SCR	45/SCR
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	25	25	25	25	25
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55	55	55	55	55
UNIT MCA	AMPS	52.7	114.3	67.8	52.7	67.8
UNIT MOCP	AMPS	70	140	80	70	80
ELECTRICAL	V/PH/HZ	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60
OUTSIDE AIR PATH COOLING COIL						
AIRFLOW	CFM	3500	8000	4500	3500	4200
TOTAL CAPACITY	BTUH	320,940	733,570	412,630	320,940	385,130
SENSIBLE CAPACITY	BTUH	141,030	322,350	181,320	141,030	169,230
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	91.0/80.0	91.0/80.0	91.0/80.0	91.0/80.0	91.0/80.0
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55.0/54.9	55.0/54.9	55.0/54.9	55.0/54.9	55.0/54.9
COOLING COIL ROWS/FPI	MAX	8/10	8/8	8/9	8/10	6/10
COOLING COIL MAX FACE VEL.	FPM	365	385	370	365	345
COOLING COIL MAX PRESS. DROP	IN WG	0.48	0.59	0.56	0.48	0.39
CHILLED WATER FLOW	G.P.M.	64.0	146.2	82.2	64.0	76.8
CHILLED WATER TEMP (ENT./LVG.)	DEG F/DEG F	45/55	45/55	45/55	45/55	45/55
MAX WATER PRESS. DROP	FT WG	16.1	9.6	4.0	16.1	14.4
RETURN AIR PATH FILTER BOX						
AIRFLOW	CFM	12880	17735	16645	14760	15700
RETURN AIR FILTER	MERV	7	7	7	7	7
RETURN AIR PATH COOLING COIL						
AIRFLOW	CFM	12880	17735	16645	14760	15700
TOTAL CAPACITY	BTUH	340,520	468,400	432,900	395,540	419,490
SENSIBLE CAPACITY	BTUH	283,110	389,830	365,870	324,440	345,100
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55.0/54.0	55.0/54.0	55.0/54.2	55.0/53.9	55.0/53.9
COOLING COIL ROWS/FPI	MAX	4/10	4/10	4/10	4/10	4/10
COOLING COIL MAX FACE VEL.	FPM	500	500	500	500	500
COOLING COIL MAX PRESS. DROP	IN WG	0.39	0.24	0.36	0.33	0.37
CHILLED WATER FLOW	G.P.M.	67.9	93.4	86.3	78.8	83.6
CHILLED WATER TEMP (ENT./LVG.)	DEG F/DEG F	45/55	45/55	45/55	45/55	45/55
MAX WATER PRESS. DROP	FT WG	5.9	7.7	6.9	12.2	13.5
MIXED AIR PATH FAN						
AIRFLOW	CFM	16380	25735	21145	18260	19900
TYPE	----	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE
DRIVE	----	BELT	BELT	BELT	BELT	BELT
FAN TYPE	----	35.5" PLENUM	43.4" PLENUM	39.4" PLENUM	35.6" PLENUM	35.6" PLENUM
FAN SPEED	RPM	1172	1011	1053	1173	1228
FAN MOTOR	HP/BHP	25.0/19.3	40.0/30.0	30.0/23.2	25.0/19.1	25.0/21.6
EXTERNAL STATIC PRESSURE	IN WG	3.0	3.25	3.25	3.0	3.0
TOTAL STATIC PRESSURE	IN WG	4.7	4.45	4.3	4.1	4.1
TOTAL UNIT MCA	AMPS	42.5	65	50	42.5	42.5
TOTAL UNIT MOCP	AMPS	60	80	70	60	60
ELECTRICAL	V/PH/HZ	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60
UNIT						
WEIGHT	LBS	4700	7950	5600	4950	5100
MANUFACTURER	----	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	----	MCCB10/30	MCCB21/50	MCCB12/40	MCCB10/35	MCCB12/35
NOTES	----	1,2,3,4,5,6,7,8,9,10,11,12	1,2,3,4,5,6,7,8,9,10,11,12	1,2,3,4,5,6,7,8,9,10,11,12	1,2,3,4,5,6,7,8,9,10,11,12	1,2,3,4,5,6,7,8,9,10,11,12

NOTES:
1. PROVIDE CENTRAL STATION SOLID DOUBLE WALL CONSTRUCTION.
2. PROVIDE SEPARATE POWER CONNECTION FOR FAN AND ELECTRIC STRIP HEATER.
3. PROVIDE STAINLESS STEEL COIL CASINGS.
4. PROVIDE STAINLESS STEEL DRAIN PAN, POSITIVELY SLOPED IN TWO DIRECTIONS.
5. PROVIDE PLENUM FAN WITH SIDE DISCHARGE.
6. PROVIDE 5" BASE RAILS UNDER UNIT.
7. FAN NOT TO EXCEED 2000 RPM.
8. COILS NOT TO EXCEED 500 FPM.
9. FIELD MOUNTED VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND FIELD WIRED BY DIVISION 26.
10. DISCONNECT FOR ELECTRIC STRIP HEATER PROVIDED AND INSTALLED BY DIVISION 26.
11. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION.
12. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

AIR COOLED SCREW COMPRESSOR CHILLER SCHEDULE			
MARK	----	CH-1	CH-2
TOTAL CAPACITY	TONS	247	247
WATER FLOW	GPM	590	590
AMBIENT TEMP	DEG F	95	95
WATER TEMP (ENT/LVG)	DEG F/DEG F	55/45	55/45
MAX WATER PRESS. DROP	FT HD	19.0	19.0
REFRIGERANT TYPE	----	R-134a	R-134a
INDEPENDENT CIRCUITS	NO.	2	2
STEPS OF CAPACITY	NO.	INFINITE	INFINITE
FAN	NO.	16	16
FAN MOTOR (EACH)	HP/BHP	1.0	1.0
FAN (FLA EACH)	AMPS	2.8	2.8
COMPRESSOR	NO.	2	2
COMPRESSOR (RLA EACH)	AMPS	194	194
COMPRESSOR (LRA EACH)	AMPS	346	346
ARI CERTIFIED EFF. STANDARD 550	IPLV	14.0	14.0
100%	EER	10.1	10.1
75%	EER	12.9	12.9
50%	EER	15.1	15.1
25%	EER	14.3	14.3
TOTAL UNIT EER	----	10.1	10.1
TOTAL UNIT MCA	AMPS	482	482
TOTAL UNIT MOCP	AMPS	600	600
ELECTRICAL	V/PH/HZ	480/3/60	480/3/60
WEIGHT	LBS	20900	20900
MANUFACTURER	----	TRANE	TRANE
MODEL	----	RTAC250HE	RTAC250HE
NOTES	----	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

NOTES:
1. PROVIDE SINGLE POINT POWER CONNECTION.
2. PROVIDE FACTORY RUBBER IN SHEAR ISOLATORS UNDER UNIT.
3. PROVIDE VAPOR PROOF CHILLED WATER FLOW SWITCH.
4. PROVIDE COPPER TUBE AND COPPER FIN CONDENSER COILS, FULL LOUVERED HAIL GUARD PANELS ON CONDENSER COILS, WIRE PROTECTED GUARDS FOR COMPRESSORS, AND 1.5 INCH DOUBLE INSULATION ON CHILLER BARREL.
5. PROVIDE COMPRESSOR SERVICE ISOLATION VALVES, FULLY CHARGED WITH R-22.
6. DISCONNECT PROVIDED AND INSTALLED BY DIVISION 26.
7. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION.
8. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

FAN SCHEDULE											
MARK	----	EF-1-1	EF-1-2	EF-1-3	EF-2-1	EF-2-2	EF-2-3	EF-3-1	EF-4-1	EF-5-1	EF-6-1
SERVICE	----	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	EXHAUST AIR
AIR QUANTITY	CFM	300	300	400	800	200	450	700	800	500	200
EXT. STATIC PRESSURE	IN WG	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
FAN TYPE	----	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE
DRIVE	----	DIRECT	DIRECT	DIRECT	BELT	DIRECT	DIRECT	BELT	BELT	DIRECT	DIRECT
SONES	----	5.8	5.8	5.7	5.7	5.0	5.9	5.4	5.7	6.2	5.0
MOTOR	HP	1/6	1/6	1/6	1/6	1/6	1/6	1/6	1/6	1/6	1/6
FAN SPEED	RPM	1311	1311	1376	872	1158	1405	851	872	1441	1158
ELECTRICAL	V/PH/HZ	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
WEIGHT	LBS	103	103	103	218	103	103	218	218	103	103
MANUFACTURER	----	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL	----	100SQN10D	100SQN10D	100SQN15D	165SQN-HP	1,3,4	100SQN10D	100SQN15D	165SQN-HP	100SQN15D	100SQN10D
NOTES	----	1,2,3,4	1,2,3,4	1,2,3,4	1,3,4	1,2,3,4	1,2,3,4	1,3,4	1,3,4	1,2,3,4	1,2,3,4

NOTES:
1. DISCONNECT PROVIDED AND INSTALLED BY DIVISION 26.
2. SOLID STATE SPEED CONTROLLER FURNISHED BY DIVISION 23. TO BE WIRED AND INSTALLED BY DIVISION 26.
3. PROVIDE MOTOR / BELT GUARDS.
4. PROVIDE BACKDRAFT DAMPER.

AIR DEVICE SCHEDULE						
MARK	S-1	S-2	S-3	R-1	R-2	E-1
SERVICE	SUPPLY AIR	SUPPLY AIR	SUPPLY AIR	RETURN AIR	RETURN AIR	EXHAUST AIR
DESCRIPTION	ARCHITECTURAL SQUARE PLAQUE DIFFUSER WITH ROUND NECK	ADJUSTABLE CURVED BLADE DIFFUSER WITH 3-WAY DISCHARGE	ADJUSTABLE DOUBLE DEFLECTION GRILLE WITH 3/4" BLADE SPACING	EGG CRATE GRILLE WITH 1/2"X1/2"X1/2" ALUMINUM CORE	FIXED 35 DEGREE SINGLE DEFLECTION GRILLE WITH 3/4" BLADE SPACING	FIXED 35 DEGREE SINGLE DEFLECTION GRILLE WITH 3/4" BLADE SPACING
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
FINISH	STANDARD FINISH #26 WHITE	STANDARD FINISH #26 WHITE	STANDARD FINISH #26 WHITE	STANDARD FINISH #26 WHITE	STANDARD FINISH #26 WHITE	STANDARD FINISH #26 WHITE
DAMPER	RADIAL	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	OMNI-AA	250-AA	300FS	50F	350FL	350FL

GENERAL NOTE:
PROVIDE FRAMES AS REQUIRED BY CEILING CONSTRUCTION SHOWN ON ROOM FINISH SCHEDULE. SEE ARCHITECTURAL PLANS.

VAV BOXES ARE NOT SCHEDULED AT THIS TIME. CONTRACTOR SHALL ESTIMATE A TOTAL OF 225 VAV BOXES (EACH WITH APPROXIMATELY 500 CFM AND 2.5 KW ELECTRIC STRIP HEATER) FOR BUDGETING PURPOSES.

PUMP SCHEDULE				
MARK	----	P-1	P-2	P-3 (BACKUP)
SERVICE	----	CHILLED WATER	CHILLED WATER	CHILLED WATER
WATER FLOW	GPM	590	590	590
TOTAL HEAD	FT WG	127	127	127
MOTOR	HP/BHP	40/24.2	40/24.2	40/24.2
SPEED	RPM	1750	1750	1750
MOTOR TYPE	----	TEFC	TEFC	TEFC
BASE TYPE	----	FAB	FAB	FAB
IMPELLER DIAMETER	IN	11.75	11.75	11.75
SUCTION DIAMETER	IN	5	5	5
DISCHARGE DIAMETER	IN	4	4	4
WEIGHT	LBS	940	940	940
ELECTRICAL	V/PH/HZ	480/3/60	480/3/60	480/3/60
MANUFACTURER	----	B&G	B&G	B&G
MODEL	----	1510-4GB	1510-4GB	1510-4GB
NOTES	----	1,2,3	1,2,3	1,2,3

NOTES:
1. PROVIDE HIGH EFFICIENCY MOTORS.
2. FIELD MOUNTED VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND FIELD WIRED BY DIVISION 26.
3. DISCONNECT PROVIDED AND INSTALLED BY DIVISION 26.

AIR SEPARATOR SCHEDULE		
MARK	----	AS-1
SERVICE	----	CHILLED WATER
WATER FLOW	G.P.M.	1180
PRESSURE DROP	FT WG	2
MAX PRESSURE	PSIG	125
MAX TEMP	DEG F	350
MANUFACTURER	----	B&G
MODEL	----	RL-8

EXPANSION TANK SCHEDULE		
MARK	----	ET-1
SERVICE	----	CHILLED WATER
TANK VOLUME - ACCEPTANCE	GALLONS	44.4/22.6
MANUFACTURER	----	B&G
MODEL	----	D80V
NOTES	----	1,2,3

NOTES:
1. TANKS SHALL BE ASME RATED.
2. TANK SHALL BE FLOOR MOUNTED REPLACEABLE BLADDER TYPE.
3. CHARGE AIR SIDE TO 25#.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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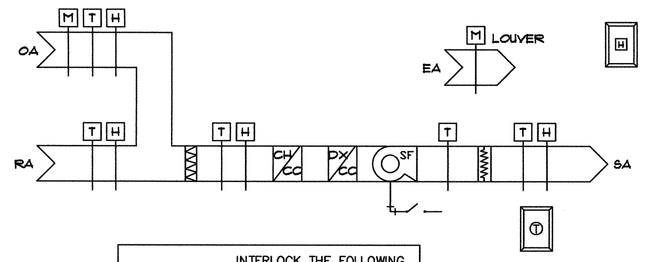
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M4.3

HVAC CONTROL DIAGRAM - TYPICAL FOR AHU-6

SINGLE PATH AIR HANDLING UNIT WITH PRIMARY CHILLED WATER COIL AND BACKUP DX COIL



SEQUENCE OF OPERATIONS OCCUPIED MODE:

AIR HANDLING UNIT:

SUPPLY AIR FAN OPERATION
THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY. A FLOAT SWITCH LOCATED IN THE SECONDARY DRAIN PAN SHALL SENSE A CONDENSATE OVERFLOW CONDITION AND SHALL DE-ENERGIZE THE SUPPLY AIR FAN. A STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL SENSE A HIGH STATIC CONDITION AND SHALL DE-ENERGIZE THE SUPPLY AIR FAN. PROVIDE ALARM IF SUPPLY AIR FAN FAILS.

DAMPER OPERATION
WHEN THE SUPPLY AIR FAN IS ENERGIZED, THE DUCT MOUNTED MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN.

COOLING MODE
IN THE COOLING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED BY AN ADJUSTABLE THERMOSTAT OR BUILDING AUTOMATION SYSTEM (BAS) OVERRIDE. INITIAL SETPOINT SHALL BE 75 DEGREES (ADJUSTABLE.) UPON INCREASE IN CHILLED WATER SUPPLY TEMPERATURE (55 DEGREES ADJUSTABLE), THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL CLOSE AND THE BACKUP DX COIL AND ASSOCIATED CONDENSING UNIT SHALL ENERGIZE AND CYCLE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. PROVIDE ALARM IN THE BAS INDICATING OPERATION OF BACKUP DX COIL.

HEATING MODE
IN THE HEATING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL CLOSE AND THE ELECTRIC STRIP HEATER SHALL BE CYCLED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED BY AN ADJUSTABLE THERMOSTAT OR BAS OVERRIDE. INITIAL SETPOINT SHALL BE 75 DEGREES (ADJUSTABLE.)

EXHAUST AIR FANS:
OPERATION OF EXHAUST FANS SHALL BE INTERLOCKED WITH ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN, REFER TO SCHEDULE ABOVE. EXHAUST AIR FAN SHALL BE ENERGIZED WHEN ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN IS ENERGIZED. EXHAUST AIR FAN SHALL BE DE-ENERGIZED WHEN ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN IS DE-ENERGIZED.

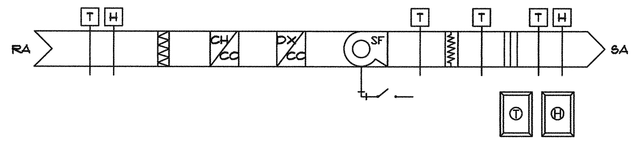
SEQUENCE OF OPERATIONS HURRICANE MODE:
IN THE HURRICANE MODE, EXHAUST FANS SHALL DE-ENERGIZE AND ALL MOTORIZED DAMPERS IN EXTERIOR LOUVERS SHALL AUTOMATICALLY BE CLOSED. ALL OTHER HVAC EQUIPMENT SHALL FUNCTION IN THE OCCUPIED MODE.

SEQUENCE OF OPERATIONS UNOCCUPIED MODE:

IN THE UNOCCUPIED MODE, THE AIR HANDLING UNIT SUPPLY AIR FAN AND EXHAUST FANS SHALL BE DE-ENERGIZED. ALL DAMPERS AND AUTOMATIC 2-WAY CHILLED WATER VALVES SHALL BE CLOSED. ALL ELECTRIC STRIP HEATERS SHALL BE DE-ENERGIZED. UNOCCUPIED SEQUENCE SHALL SWITCH TO OCCUPIED SEQUENCE IF SPACE HUMIDITY RISES ABOVE 60% (ADJUSTABLE) AS MEASURED BY SPACE HUMIDITY SENSOR.

HVAC CONTROL DIAGRAM - TYPICAL FOR AHU-7

COMPUTER ROOM UNIT WITH PRIMARY CHILLED WATER COIL AND BACKUP DX COIL



SEQUENCE OF OPERATIONS OCCUPIED MODE:

COMPUTER ROOM UNIT:

SUPPLY AIR FAN OPERATION
THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY. A FLOAT SWITCH LOCATED IN THE SECONDARY DRAIN PAN SHALL SENSE A CONDENSATE OVERFLOW CONDITION AND SHALL DE-ENERGIZE THE SUPPLY AIR FAN. PROVIDE ALARM IF SUPPLY AIR FAN FAILS.

COOLING MODE
IN THE COOLING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED BY A FACTORY MICROPROCESSOR AND READABLE ONLY THROUGH THE BUILDING AUTOMATION SYSTEM (BAS). INITIAL SETPOINT SHALL BE 70 DEGREES (ADJUSTABLE.) UPON INCREASE IN CHILLED WATER SUPPLY TEMPERATURE (55 DEGREES ADJUSTABLE), THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL CLOSE AND THE BACKUP DX COIL AND ASSOCIATED CONDENSING UNIT SHALL ENERGIZE AND CYCLE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. PROVIDE ALARM IN THE BAS INDICATING OPERATION OF BACKUP DX COIL.

HEATING MODE
IN THE HEATING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL CLOSE AND THE ELECTRIC STRIP HEATER SHALL BE CYCLED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED BY A FACTORY MICROPROCESSOR AND READABLE ONLY THROUGH THE BAS. INITIAL SETPOINT SHALL BE 70 DEGREES (ADJUSTABLE.)

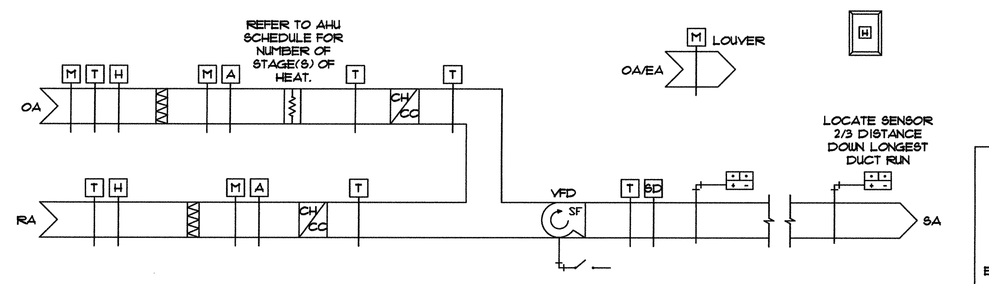
HUMIDIFING MODE
IN THE HUMIDIFING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE, ELECTRIC STRIP HEATER, AND STEAM HUMIDIFIER SHALL CYCLE AND MODULATE TO MAINTAIN THE SPACE HUMIDITY SETPOINT. THE SPACE HUMIDITY SETPOINT SHALL BE DETERMINED BY A FACTORY MICROPROCESSOR AND READABLE ONLY THROUGH THE BAS. INITIAL SETPOINT SHALL BE 50 %RH (ADJUSTABLE.)

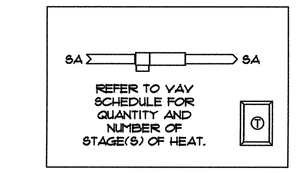
SEQUENCE OF OPERATIONS UNOCCUPIED MODE:

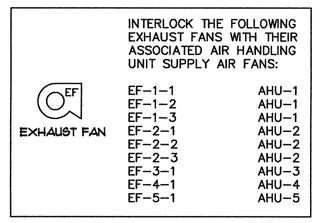
COMPUTER ROOM UNIT SHALL NOT HAVE AN UNOCCUPIED MODE, BUT SHALL REMAIN IN OCCUPIED MODE FOR PROTECTION OF SERVER EQUIPMENT.

HVAC CONTROL DIAGRAM - TYPICAL FOR AHU - 1, 2, 3, 4, AND 5

DUAL PATH CHILLED WATER AIR HANDLING UNIT







SEQUENCE OF OPERATIONS OCCUPIED MODE:

AIR HANDLING UNIT:

SUPPLY AIR FAN OPERATION
THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY. A FLOAT SWITCH LOCATED IN THE SECONDARY DRAIN PAN SHALL SENSE A CONDENSATE OVERFLOW CONDITION AND SHALL DE-ENERGIZE THE SUPPLY AIR FAN. A STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY AIR DUCTWORK SHALL SENSE A HIGH STATIC CONDITION AND SHALL DE-ENERGIZE THE SUPPLY AIR FAN. PROVIDE ALARM IF SUPPLY AIR FAN FAILS.

DAMPER OPERATION
WHEN THE SUPPLY AIR FAN IS ENERGIZED, THE DUCT MOUNTED MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN. THE AIR HANDLING UNIT FACTORY MOTORIZED OUTSIDE AND RETURN AIR DAMPER SHALL BE MODULATED AT A VALUE EQUAL TO OR HIGHER THAN THE OUTDOOR AIRFLOW AS SHOWN IN THE AIR HANDLING UNIT SCHEDULE. PRIOR TO FINAL SYSTEM ACCEPTANCE, A TREND LOG OF ACTUAL AIRFLOW SYSTEM OPERATION OVER A TYPICAL FORTY-EIGHT HOUR PERIOD IS REQUIRED.

VARIABLE FREQUENCY DRIVE (VFD) OPERATION
WHEN THE SUPPLY AIR FAN IS ENERGIZED, THE VFD SHALL SLOWLY RAMP UP (ADJUSTABLE) AND MODULATE TO MAINTAIN THE PROPER DISCHARGE DUCT STATIC PRESSURE SETPOINT (ADJUSTABLE.) ALL VAV BOX DAMPERS SHALL BE CONTINUOUSLY MONITORED. WHEN ANY VAV BOX DAMPER IS MORE THAN 95% (ADJ.) OPEN, THE SUPPLY AIR FAN DISCHARGE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET UPWARD BY 5% (ADJ.) OF THE MAXIMUM SYSTEM STATIC PRESSURE SETPOINT AT A FREQUENCY OF 10 MINUTES (ADJ.) UNTIL NO VAV BOX DAMPER IS MORE THAN 95% OPEN OR THE STATIC PRESSURE SETPOINT HAS RESET UPWARD TO THE SYSTEM MAXIMUM SETTING OR THE INLET VANES (OR FREQUENCY INVERTER) ARE AT THEIR MAXIMUM SETTING. WHEN ALL VAV BOX DAMPERS ARE LESS THAN 85% (ADJ.) OPEN, THE SUPPLY AIR FAN DISCHARGE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET DOWNWARD BY 5% (ADJ.) OF THE MAXIMUM SYSTEM STATIC PRESSURE SETPOINT AT A FREQUENCY OF 10 MINUTES (ADJ.) UNTIL ANY VAV BOX DAMPER IS MORE THAN 85% OPEN OR THE STATIC PRESSURE SETPOINT HAS RESET DOWNWARD TO THE SYSTEM MINIMUM SETTING OR THE INLET VANES (OR FREQUENCY INVERTER) ARE AT THEIR MINIMUM SETTING. THE CONTROL BANDS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES AND ADJUSTMENT FREQUENCIES SHALL BE ADJUSTED TO MAINTAIN MAXIMUM STATIC PRESSURE OPTIMIZATION WITH STABLE SYSTEM CONTROL AND MAXIMUM COMFORT CONTROL.

COOLING MODE
IN THE COOLING MODE, THE RETURN AIR PATH AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN THE RETURN AIR PATH DISCHARGE TEMPERATURE SETPOINT. INITIAL SETPOINT SHALL BE 55 DEGREES (ADJUSTABLE.) THE OUTSIDE AIR PATH AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN THE OUTSIDE AIR PATH DISCHARGE TEMPERATURE SETPOINT. INITIAL SETPOINT SHALL BE 55 DEGREES (ADJUSTABLE.)

PREHEATING MODE
WHEN OUTSIDE AIR TEMPERATURE FALLS BELOW 40 DEGREES (ADJUSTABLE), THE PREHEATING MODE SHALL BECOME ACTIVE. IN THE PREHEAT MODE, THE OUTSIDE AIR PATH AUTOMATIC 2-WAY CHILLED WATER VALVE SHALL CLOSE AND THE ELECTRIC STRIP PREHEATER SHALL BE CYCLED TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT. INITIAL SETPOINT SHALL BE 55 DEGREES (ADJUSTABLE.)

VARIABLE AIR VOLUME (VAV) BOX:

OPERATION CONTROL
THE BUILDING AUTOMATED SYSTEM (BAS) SHALL PLACE THE VAV BOX IN EITHER THE COOLING OR HEATING MODE. FOR EACH VAV BOX, THE BAS SHALL PROVIDE AN OPERATING STATUS SUMMARY OF ALL SENSED VALUES (ZONE TEMPERATURE, CFM, ETC.), SETPOINTS, AND MODES. THE BAS SHALL CONTROL THE COOLING AIR DAMPER TO A FULLY OPEN, FULLY CLOSE, MAXIMUM CFM, OR MINIMUM CFM POSITION BASED ON OPERATOR COMMANDS. THE OPERATOR SHALL ALSO HAVE THE CAPABILITY TO ADJUST THE MAXIMUM & MINIMUM AIRFLOW LIMITS OF THE AIR DAMPER THROUGH THE BAS. THE BAS SHALL BE CAPABLE OF OFFSETTING THE COOLING OR HEATING MODE SETPOINTS OF ONE OR MORE GROUPS OF BOXES BY AN OPERATOR ADJUSTABLE AMOUNT. THIS CAPABILITY WILL ALLOW FOR AUTOMATIC ZONE SETPOINT CHANGES BASED ON SYSTEM REQUIREMENTS, SUCH AS DEMAND LIMITING. FOR EACH GROUP OF VAV BOXES, THE BAS SHALL REPORT THE GROUP MODE, HEATING AND COOLING AIRFLOW, AVERAGE ZONE TEMPERATURE, MINIMUM ZONE TEMPERATURE, AND MAXIMUM ZONE TEMPERATURE. THE REPORT SHALL ALSO DISPLAY FOR EACH VAV BOX IN THE GROUP THE PRESENT TEMPERATURE CONTROL SETPOINTS AND THE CURRENT ZONE TEMPERATURE. THE SYSTEM SHALL AUTOMATICALLY RECALIBRATE ITS AIRFLOW SENSING & AIR DAMPER POSITION MEASUREMENT SYSTEM AT SYSTEM STARTUP AND ON A SCHEDULED BASIS.

SETPOINT CONTROL
SETPOINTS SHALL BE ENTERABLE FOR EACH COOLING OR HEATING MODE THROUGH THE BAS. THE BAS SHALL EDIT THE ZONE SPACE TEMPERATURE SETPOINT OF EACH VAV BOX. INITIAL ZONE TEMPERATURE SETPOINT SHALL BE 75 DEGREES F (ADJUSTABLE) COOLING AND 70 DEGREES F (ADJUSTABLE) HEATING.

COOLING MODE
IN THE COOLING MODE, THE ELECTRIC STRIP HEATER SHALL BE DE-ENERGIZED. THE VAV BOX AIR DAMPER SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE AS SENSED BY A SPACE TEMPERATURE SENSER.

HEATING MODE
IN THE HEATING MODE, THE ELECTRIC STRIP HEATER SHALL BE ENERGIZED. THE VAV BOX AIR DAMPER SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE AS SENSED BY A SPACE TEMPERATURE SENSER.

DIAGNOSTICS.
IF ZONE TEMPERATURE SENSOR INPUT FAILS ABOVE ITS HIGH RANGE, THE VAV BOX SHALL CONTROL AT ITS MAXIMUM CFM SETPOINT. IF SENSOR INPUT FAILS BELOW ITS LOW RANGE, UNIT SHALL CONTROL TO ITS MINIMUM CFM SETPOINT. IN BOTH CASES, ALL HEAT OUTPUTS SHALL BE DISABLED. A DIAGNOSTIC MESSAGE SHALL BE DISPLAYED UPON OPERATOR INQUIRY. IF FLOW-MEASURING SYSTEM FAILS, THE VAV BOX SHALL AUTOMATICALLY CONVERT TO A PRESSURE DEPENDENT, DAMPER POSITION BASED ALGORITHM. DIAGNOSTIC ALERT MESSAGE SHALL BE DISPLAYED UPON OPERATOR INQUIRY. IF COMMUNICATIONS ARE LOST, CONTROLLER SHALL CONTINUE TO OPERATE IN THE CURRENT MODE OF OPERATION. ALL SETPOINTS SHALL BE RETAINED IN NONVOLATILE MEMORY. IF COMMUNICATIONS ARE NOT RESTORED WITHIN 15 MINUTES, UNIT SHALL AUTOMATICALLY INITIATE A RESET RECALIBRATE.

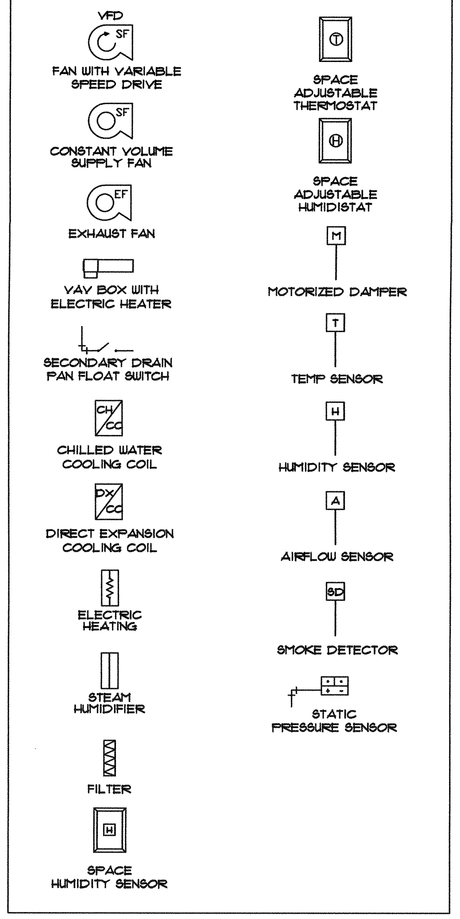
EXHAUST AIR FANS:
OPERATION OF EXHAUST FANS SHALL BE INTERLOCKED WITH ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN, REFER TO SCHEDULE ABOVE. EXHAUST AIR FAN SHALL BE ENERGIZED WHEN ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN IS ENERGIZED. EXHAUST AIR FAN SHALL BE DE-ENERGIZED WHEN ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN IS DE-ENERGIZED.

SEQUENCE OF OPERATIONS HURRICANE MODE:
IN THE HURRICANE MODE, EXHAUST FANS SHALL DE-ENERGIZE AND ALL MOTORIZED DAMPERS IN EXTERIOR LOUVERS SHALL AUTOMATICALLY BE CLOSED. AIR HANDLING UNIT OUTSIDE AND RETURN AIRFLOW SENSING SEQUENCE BE DISMISSED. ALL OTHER HVAC EQUIPMENT SHALL FUNCTION IN THE OCCUPIED MODE.

SEQUENCE OF OPERATIONS UNOCCUPIED MODE:

IN THE UNOCCUPIED MODE, THE AIR HANDLING UNIT SUPPLY AIR FANS, VFD'S, AND EXHAUST FANS SHALL BE DE-ENERGIZED. ALL DAMPERS, AUTOMATIC 2-WAY CHILLED WATER VALVES, AND VAV BOXES SHALL BE CLOSED. ALL ELECTRIC STRIP HEATERS SHALL BE DE-ENERGIZED. UNOCCUPIED SEQUENCE SHALL SWITCH TO OCCUPIED SEQUENCE IF SPACE HUMIDITY RISES ABOVE 60% (ADJUSTABLE) AS MEASURED BY SPACE HUMIDITY SENSOR.

SYMBOL LEGEND



NOTE: REFER TO SPECIFICATION SECTION 23 09 00 FOR MORE INFORMATION.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-28-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT NUMBER: 07014

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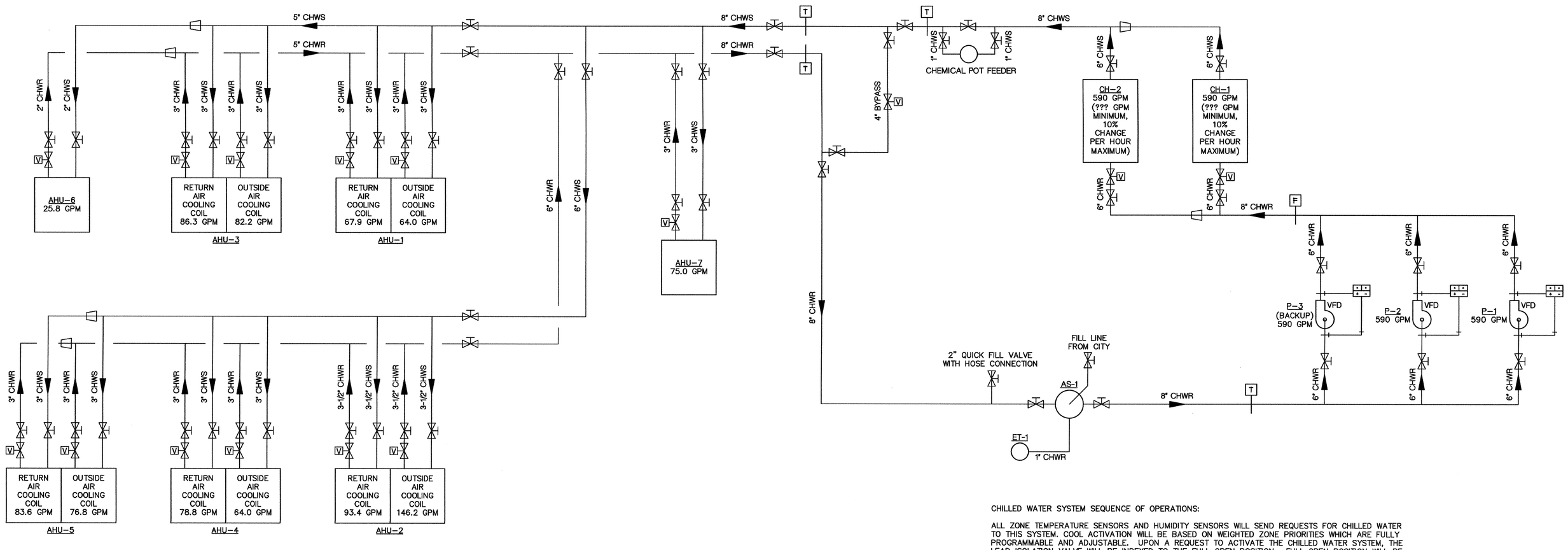
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC CONTROL DIAGRAMS

SHEET NUMBER:
M5.1

HVAC CONTROL DIAGRAM - CHILLED WATER SYSTEM

PRIMARY LOOP VARIABLE PUMPING



CHILLED WATER SYSTEM SEQUENCE OF OPERATIONS:

ALL ZONE TEMPERATURE SENSORS AND HUMIDITY SENSORS WILL SEND REQUESTS FOR CHILLED WATER TO THIS SYSTEM. COOL ACTIVATION WILL BE BASED ON WEIGHTED ZONE PRIORITIES WHICH ARE FULLY PROGRAMMABLE AND ADJUSTABLE. UPON A REQUEST TO ACTIVATE THE CHILLED WATER SYSTEM, THE LEAD ISOLATION VALVE WILL BE INDEXED TO THE FULL OPEN POSITION. FULL OPEN POSITION WILL BE VERIFIED BY WAY OF AN END SWITCH LOCATED ON THE VALVE ACTUATOR. THE CHILLED WATER BYPASS VALVE WILL BE FULLY CLOSED WHEN EVER THE CHILLED WATER SUPPLY GPM IS ABOVE THE MINIMUM GPM SET POINT (ADJUSTABLE), THE CHILLED WATER BYPASS VALVE WILL MODULATE OPEN TO MAINTAIN CHILLED WATER SYSTEM PRESSURE SET POINT (ADJUSTABLE) WHENEVER THE CHILLED WATER SYSTEM GPM IS AT MINIMUM (ADJUSTABLE.) THE LEAD CHILLED WATER PUMP WILL INDEX TO THE ON POSITION, CHILLED WATER PUMP STATUS WILL BE VERIFIED BY A CURRENT SWITCH. THE CHILLED WATER PUMP VFD WILL RAMP UP TO MINIMUM GPM AS SET BY THE CHILLER MANUFACTURER. THE CHILLED WATER PUMP VFD WILL CONTINUE TO SPEED UP TO MAINTAIN CHILLED WATER SYSTEM PRESSURE (ADJUSTABLE.) THE REVERSE WILL OCCUR ON A RISE IN CHILLED WATER SYSTEM PRESSURE ABOVE SETPOINT. UPON PROOF OF ALL SYSTEM SET POINTS AND PARAMETERS THE LEAD CHILLER WILL BE ENABLED. THE CHILLER MANUFACTURER WILL MAINTAIN CHILLED WATER SUPPLY TEMPERATURE SETPOINTS (ADJUSTABLE.) ON AN INCREASED CALL FOR SUPPLY CHILLED WATER BASED ON ZONE TEMPERATURES AND HUMIDITY THE LAG SYSTEMS WILL BE ENABLED AND FOLLOW THE LEAD SEQUENCE. THE REVERSE WILL OCCUR ON A DECREASED CALL FOR CHILLED WATER.

THE CHILLERS WILL LEAD/LAG BASED ON SYSTEM RUNTIME (160HRS) AND/OR LEAD DEVICE FAILURE.

DURING OUTSIDE AIR FREEZING TEMPERATURES (ADJUSTABLE) PUMP(S) SHALL BE ACTIVATED TO PREVENT WATER FROM FREEZING IN PIPES.

ALL CHILLERS, PUMPS, ISOLATION VALVES, AND TEMPERATURES WILL GENERATE ALARMS TO THE BUILDING AUTOMATION SYSTEM UPON COMMAND FAILURE OR OUT OF RANGE VALUES (ADJUSTABLE).

SYMBOL LEGEND

- T — TEMP SENSOR
- S — STATIC PRESSURE SENSOR
- P — WATERFLOW METER
- V — 2-WAY AUTOMATIC CONTROL VALVE
- MV — MANUAL SHUTOFF VALVE

NOTE: REFER TO SPECIFICATION SECTION 23 09 00 FOR MORE INFORMATION.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-12-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
TBS CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

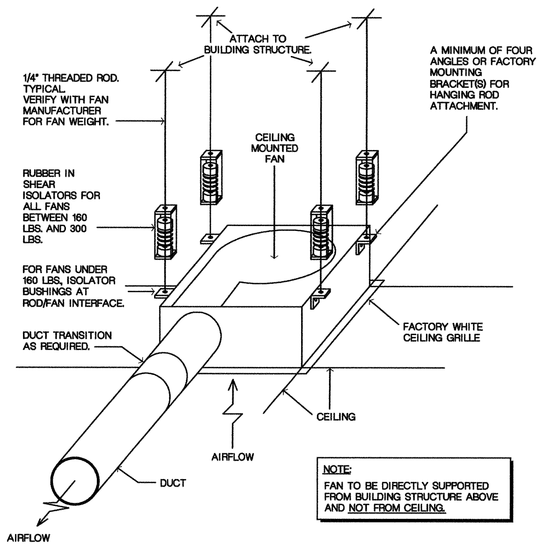
SHEET TITLE:

HVAC CONTROL DIAGRAMS

SHEET NUMBER:

M5.2

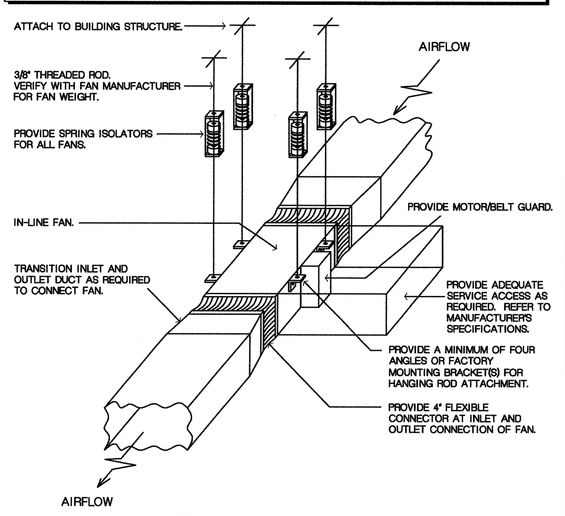
CEILING MOUNTED FAN SUPPORT



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IN-LINE FAN SUPPORT

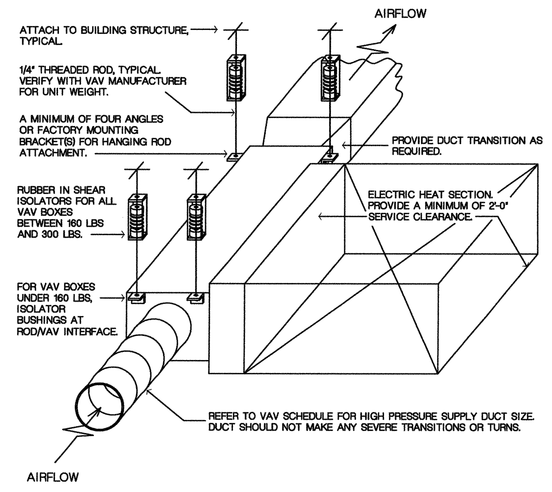
NOTE: FAN TO BE DIRECTLY SUPPORTED BY BUILDING STRUCTURE AND NOT CONNECTING DUCTWORK OR CEILING.



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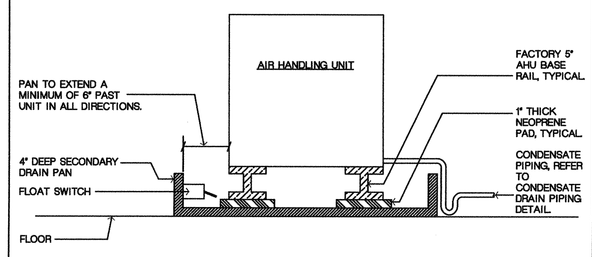
SINGLE DUCT VAV BOX W/ ELEC HEAT SUPPORT

NOTE: VAV BOX TO BE DIRECTLY SUPPORTED BY BUILDING STRUCTURE AND NOT CONNECTING DUCTWORK OR CEILING.



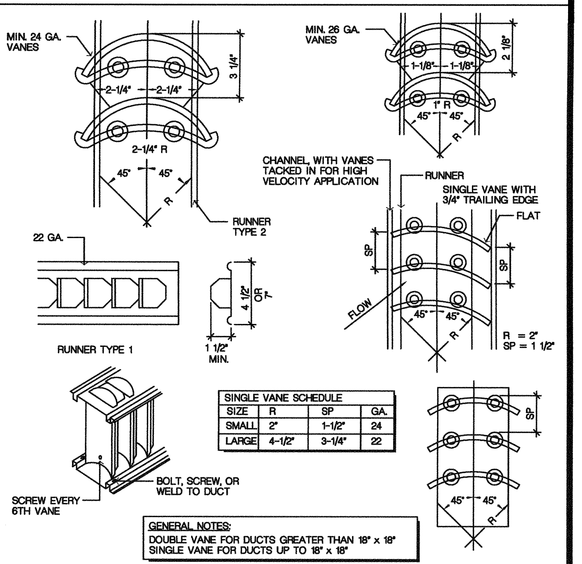
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AIR HANDLING UNIT SUPPORT



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TURNING VANES AND VANE RUNNERS



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-07-01 | MD-0507

RECTANGLAR DUCT HANGERS MINIMUM SIZES

MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
P/2 = 72"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P/2 = 96"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P/2 = 120"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P/2 = 168"	1.5" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 18 GA.	3/8"
P/2 = 192"		1/2"	1.5" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"
P/2 = 193" UP	SPECIAL ANALYSIS REQUIRED							

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:
1" x 18, 20, 22 GA. – TWO #10
1" x 16 GA. – TWO 1/4" DIA.
1.5" x 16 GA. – TWO 3/8" DIA.
PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.

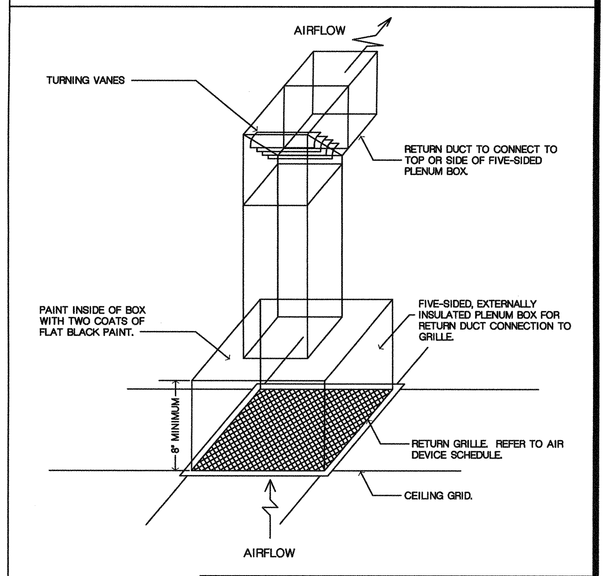
SINGLE HANGER MAXIMUM ALLOW. LOAD

1" x 22 GA. – 260 LBS.	1/4 DIA.	270 LBS.
1" x 20 GA. – 320 LBS.	3/8 DIA.	680 LBS.
1" x 18 GA. – 420 LBS.	1/2 DIA.	1250 LBS.
1" x 16 GA. – 700 LBS.	5/8 DIA.	2000 LBS.
1.5" x 16 GA. – 1100 LBS.	3/4 DIA.	3000 LBS.

NOTES:
1. DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
2. TABLES ALLOW FOR DUCT WEIGHT, 0.5 LB./SF INSULATION WEIGHT & NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS!
3. CONSULT AISI LIGHT GAGE STEEL DESIGN MANUAL AND AISC STEEL CONSTRUCTION MANUAL FOR CRITERIA FOR DESIGN OF OTHER HANGERS.
4. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.
5. ALLOWABLE LOADS LISTED ASSUME THAT DUCTS ARE 16 GA. MAXIMUM.

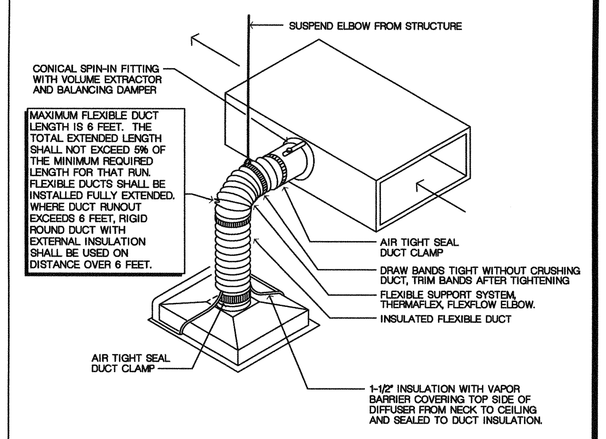
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FIVE-SIDED RETURN GRILLE PLENUM BOX



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 12-28-04 | MD-0528

FLEXIBLE DUCT INSTALLATION



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 09-24-01 | MD-0527

FIRE DAMPER MOUNTING AT WALL AND FLOOR PENETRATIONS (NOTES)

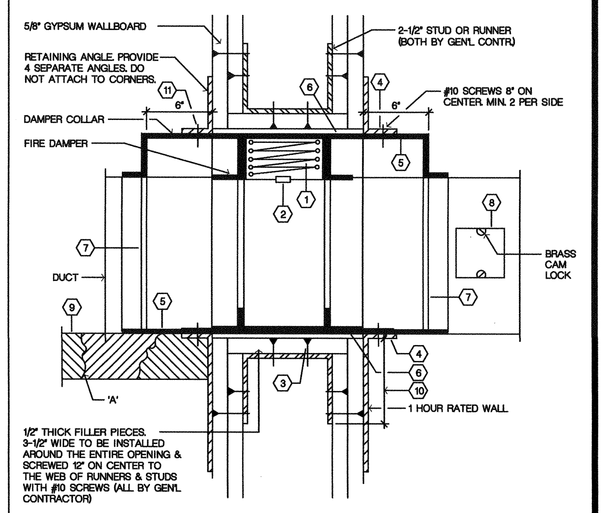
CODED NOTES:

1. PROVIDE PHILLIPS #61 (R6336) UL #555 APPROVED FIRE DAMPER RATED AT 1-1/2 HOURS (OR TO MATCH RATING OF WALL PENETRATION).
2. FUSIBLE LINK.
3. SECURE THE DAMPER TO THE COLLAR WITH 1/4" DIAMETER STEEL BOLTS 6" ON CENTER.
4. PROVIDE 2 X 3 X #16 GAUGE CONTINUOUS ANGLES AROUND THE OPENING.
5. PROVIDE BREAKAWAY CONNECTION TO FACTORY FIRE DAMPER SLEEVES.
6. PROVIDE AN EXPANSION GAP ON TOP AND SIDE OF FIRE DAMPER SLEEVES SIZED AT THE RATE OF 1/8" PER LINEAR FOOT OF THE TOP AND 1/8" PER LINEAR FOOT OF THE SIDE DIMENSIONS.
7. PROVIDE A BREAKAWAY DUCT CONNECTION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT INSTALL SCREWS IN BREAKAWAY JOINT.
8. PROVIDE A 12" X 12" INSULATED PAN TYPE ACCESS DOOR WITH A FIBERGLASS GASKET, 2 - 2" BRASS PLATED STEEL HINGE AND ONE BRASS PLATED STEEL CAM TYPE LOCK. NATIONAL CONTROLLED AIR # ADR-1 IS ALSO ACCEPTABLE. VERIFY ACCESS DOOR LOCATION. WHERE 12" X 12" DOOR IS TOO LARGE FOR DUCT, PROVIDE 12" LONG X FULL DUCT WIDTH SIZED DOOR.
9. STOP INSULATION AT ANGLE.
10. 1" ANGLE OVERLAP OF STRUCTURAL FRAMING.
11. USE #8 STEEL METAL SCREWS 8" ON CENTER.
12. MINIMUM FIRE DAMPER SIZE SHALL BE 10" X 10". MECHANICAL CONTRACTOR IS TO PROVIDE DUCTWORK TRANSITION AT ALL FIRE DAMPERS AS REQUIRED.
13. MAXIMUM AIR P.D. THRU FIRE DAMPER SHALL BE 0.12" W.G.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-07-01 | MD-0702

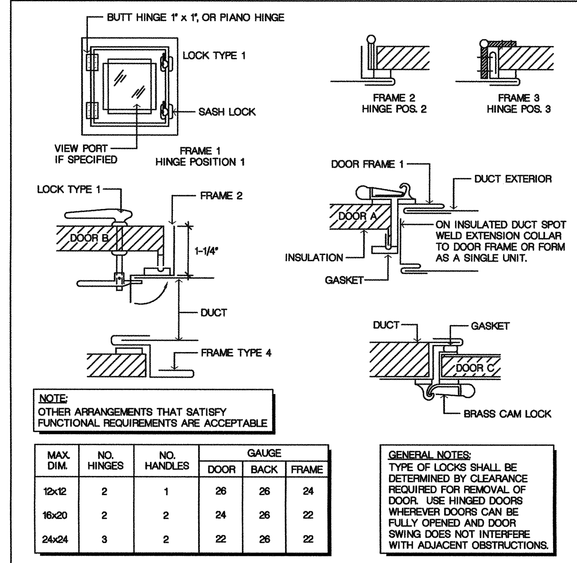
FIRE DAMPER MOUNTING AT WALL AND FLOOR PENETRATIONS

(DAMPER SHALL BE DESIGNED FOR HORIZONTAL, SIDE OR VERTICAL MOUNTING AND LABELED BY MANUFACTURER)



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-07-01 | MD-0702

DUCT ACCESS DOORS



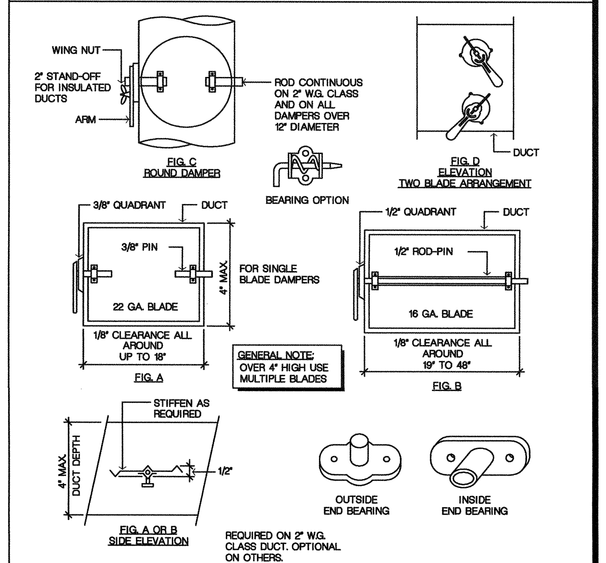
NOTE: OTHER ARRANGEMENTS THAT SATISFY FUNCTIONAL REQUIREMENTS ARE ACCEPTABLE

MAX. DIM.	NO. HINGES	NO. HANDLES	GAUGE		
			DOOR	BACK	FRAME
12x12	2	1	26	26	24
16x20	2	2	24	26	22
24x24	3	2	22	26	22

GENERAL NOTES: TYPE OF LOCKS SHALL BE DETERMINED BY CLEARANCE REQUIRED FOR REMOVAL OF DOOR. USE HINGED DOORS WHEREVER DOORS CAN BE FULLY OPENED AND DOOR SWING DOES NOT INTERFERE WITH ADJACENT OBSTRUCTIONS.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-07-01 | MD-0509

VOLUME DAMPERS FOR DUCTWORK



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-07-01 | MD-0508

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-01
DESIGN DEVELOPMENT	-	-	06-06-01
DD OWNER REVIEW	-	-	08-08-01
75% CONSTRUCTION DOCUMENTS	-	-	11-16-01
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EB 0000260
PROJECT NUMBER: 07014

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PE 0049347
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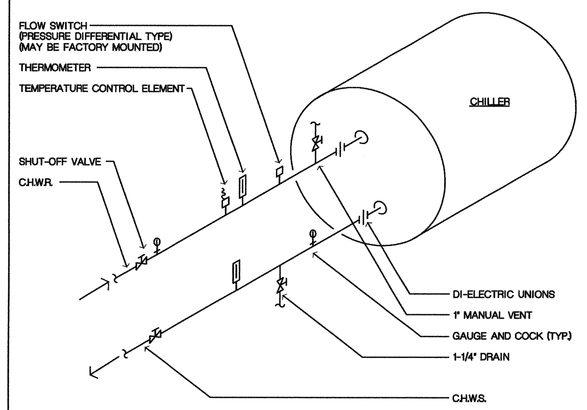
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC DETAILS

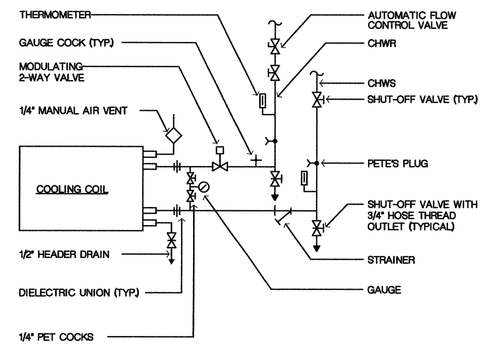
SHEET NUMBER:
M6.1

CHILLER PIPING



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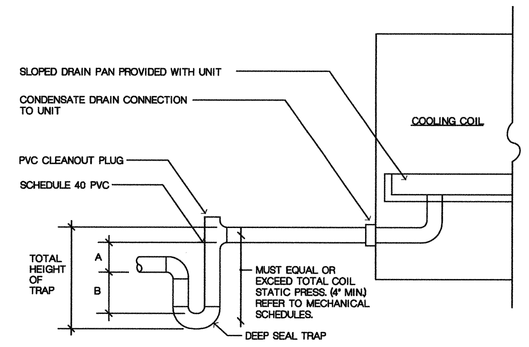
COOLING COIL PIPING



GENERAL NOTE:
COILS SHALL BE PIPED COUNTER FLOW TO AIR FLOW.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 09-24-01 | MD-0604A

CONDENSATE DRAIN PIPING



POSITIVE STATIC PRESSURE (BLOW-THRU)

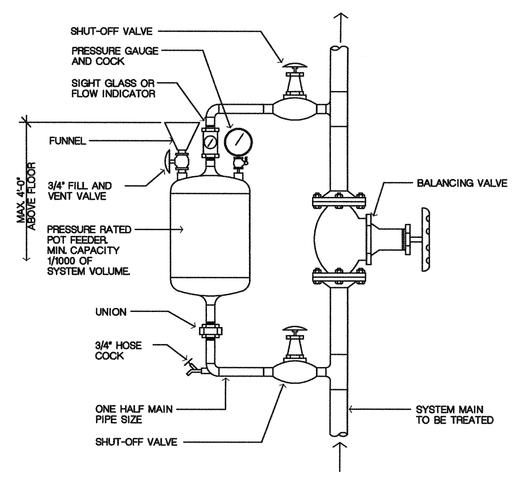
A= AT LEAST ONE(1) INCH PLUS CASING STATIC PRESSURE
B= AT LEAST ONE(1) INCH
TOTAL HEIGHT OF TRAP= A+B+(1.5 x PIPE DIA)

NEGATIVE STATIC PRESSURE (DRAW-THRU)

A= ONE HALF (1/2) B
B= AT LEAST ONE (1) INCH PLUS CASING STATIC PRESSURE
TOTAL HEIGHT OF TRAP= A+B+(1.5 x PIPE DIA)

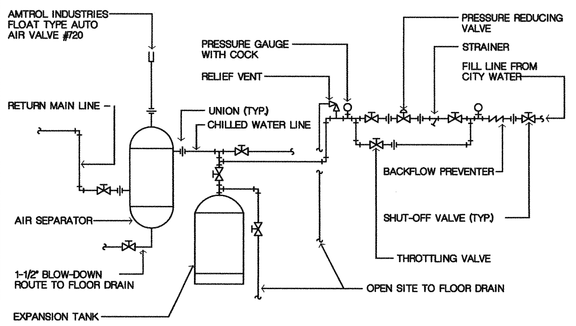
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CHEMICAL POT FEEDER



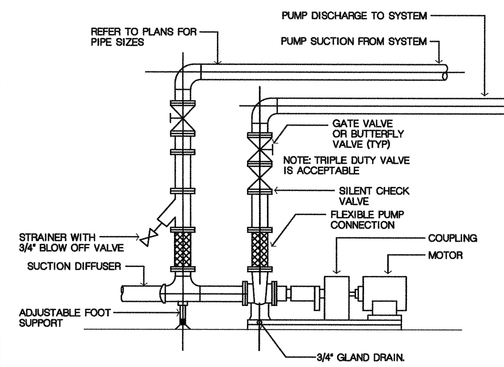
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-08-01 | MD-0212

AIR SEPARATOR AND EXPANSION TANK



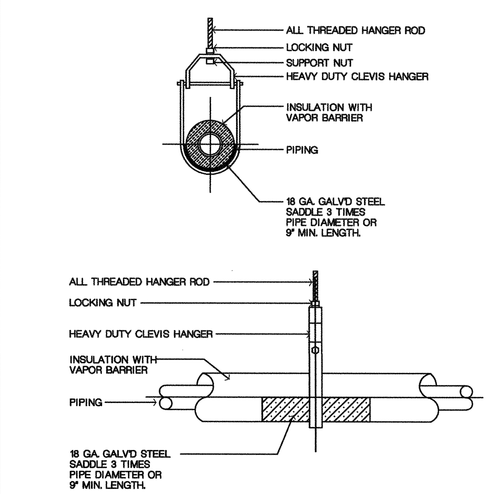
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 09-24-01 | MD-1003

PUMP PIPING



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-09-01 | MD-0202

PIPE HANGERS



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 08-08-01 | MD-0811

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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DESIGN DEVELOPMENT	-	-	06-26-07
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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M6.2

PLUMBING FIXTURE SCHEDULE

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MOUNTING	WASTE (MIN.)	VENT (MIN.)	CW (MIN.)	HW (MIN.)
WC-1	TANK TYPE WATER CLOSET	FLOOR	3"	2"	1/2"	–
WC-1A	TANK TYPE WATER CLOSET/ADA	FLOOR	3"	2"	1/2"	–
U-1	URINAL	FLOOR	2"	1-1/2"	3/4"	–
L-1	LAVATORY	WALL	1-1/2"	1-1/2"	1/2"	–
L-1A	LAVATORY/ADA	WALL	1-1/2"	1-1/2"	1/2"	1/2"
L-2	LAVATORY	COUNTER	1-1/2"	1-1/2"	1/2"	1/2"
L-2A	LAVATORY/ADA	COUNTER	1-1/2"	1-1/2"	1/2"	1/2"
S-1	SINK	COUNTERTOP	1-1/2"	1-1/2"	1/2"	1/2"
MB-1	MOP BASIN	FLOOR	3"	2"	1/2"	1/2"
EWC-1	ELECTRIC WATER COOLER	WALL	1-1/2"	1-1/2"	1/2"	–
FD-1	FLOOR DRAIN	FLOOR	2"	1-1/2"	–	–
FD-2	FLOOR DRAIN	FLOOR	3"	1-1/2"	–	–
HB-1	HOSE BIBB	WALL	–	–	3/4"	–

SPECIALTIES SCHEDULE

CO-1 FLOOR CLEANOUT: COATED CAST IRON BODY, SPIGOT CONNECTION WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ADJUSTABLE HOUSING AND SECURED ROUND SCORIATED NIKALOY TOP, VANDAL RESISTANT. PROVIDE CARPET MARKER AND TILE RECESS WHERE SPECIFIC FLOOR FINISHES. PROVIDE HEAVY DUTY TOP AT EXTERIOR LOCATIONS.

BASIS OF DEISGN: ZURN ZN – 1400 – VP (–CM, –HD, –X)

CO-2 WALL CLEANOUT: 8" SQUARE SECURED NICKEL BRONZE OR STAINLESS STEEL ACCESS COVER AND FRAME, COATED, CAST IRON CLEANOUT TEE, SPIGOT CONNECTION, WATERTIGHT ABS TAPERED THREAD PLUG.

BASIS OF DESIGN: ZURN ZN – 1447 – VP

CO-3 YARD CLEANOUT: ROUND, COATED, VANDAL RESISTANT, CAST IRON ACCESS FRAME, HEAVY DUTY SCORIATED SECURED COVER, COATED CAST IRON CLEANOUT FERRULE WITH SPIGOT CONNECTION WITH GAS AND WATERTIGHT ABS COUNTERSINK PLUG.

BASIS OF DESIGN: ZURN Z – 1474 – IN – VP

WH-1 WALL HYDRANT: ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT WITH ALL BRONZE INTERIOR PARTS AND CHROME PLATED BRASS BOX AND HINGED COVER. LOOSE KEY OPERATED.

WOODFORD B65 SERIES

HB-1 HOSE BIBB: CHROMEPLATED BRASS BODY, LOOSE KEY, BRASS VALVE, VACUUM BREAKER AND 3/4" MALE HOSE THREAD.

WOODFORD MODEL 24P

FD-1 FLOOR DRAIN: COATED CAST IRON BODY, REVERSIBLE FLASHING COLLAR, SEEPAGE HOLES AND ADJUSTABLE NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION, VANDAL PROOF SCREWS.

BASIS OF DESIGN: JAY R. SMITH 2005-P050-U-NB

FD-2 FLOOR DRAIN: COATED CAST IRON BODY, FLASHING COLLAR, SEEPAGE HOLES, CAST IRON BAR GRATE, TRAP PRIMER CONNECTION.

BASIS OF DESIGN: JAY R. SMITH 2110-P050

TP-1 TRAP PRIMER: 17 GAUGE CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT AND 1/2" C.P. COPPER TRAP PRIMER TUBE WITH ESCUTCHEON.

BASIS OF DESIGN: JAY R. SMITH 2698 – 1-1/2" OR 1-1/4"

TP-2 TRAP PRIMER: AUTOMATIC TRAP PRIMER VALVE WITH BACKFLOW PREVENTER, VACUUM BREAKER AND DISTRIBUTION UNIT(S) TO SERVE UP TO FOUR (4) FLOOR DRAINS EACH.

BASIS OF DESIGN: PPP, INC. "OREGON #1"

BV-1 BALANCING VALVE: BRASS BODY, BONNET AND TRIM, TWO INTEGRAL TEST PORTS, MEMORY STOP, POSITION DISPLAY WINDOW ON HANDWHEEL, STRAIGHT PATTERN GLOBE STYLE, NON-RISING STEM,.

BASIS OF DESIGN: NIBCO S1710

GENERAL NOTES

- REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
- THE PLUMBING INSTALLATION SHALL COMPLY WITH THE 2004 FLORIDA PLUMBING CODE WITH 2005 & 2006 REVISIONS AND ANY LOCAL CODES OR ORDINANCES.
- THE SIZE AND LOCATION OF EXISTING PIPING IS SHOWN ACCORDING TO RECORDED INFORMATION OR SITE INVESTIGATIONS. THE PLUMBING CONTRACTOR SHALL MAKE AN APPROPRIATE PRE-BID SITE INSPECTION IN ORDER TO ASCERTAIN EXISTING CONDITIONS AND SHALL INCLUDE IN THIER BID THE COST OF ALL WORK RESULTING FROM EXISTING CONDITIONS, WHETHER THIS WORK IS SHOWN OR NOT ON THESE DRAWINGS.
- PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING INDICATED ON PLANS ARE SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
- CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
- PROVIDE ACCESS PANELS (EQUAL TO MIFAB PRODUCTS) FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
- SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
- SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
- ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH THE 2004 FLORIDA PLUMBING CODE WITH 2005 & 2006 REVISIONS, INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
- ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
- PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.

PLUMBING LEGEND

SAN	SANITARY (UNDERGROUND)	
SAN	SANITARY (ABOVEGROUND)	
V	VENT	
CD	CONDENSATE DRAIN (UNDERGROUND)	CD
CD	CONDENSATE DRAIN (ABOVEGROUND)	CD
CW	COLD WATER	
HW	HOT WATER (120)	
HWR	HOT WATER RETURN	
G	NATURAL GAS	G
	PIPE DROP	
	PIPE RISE	
	SHUTOFF VALVE	
CV	CHECK VALVE	
	PLUG VALVE	
UN	UNION	
BV	BALANCING VALVE	
WHA	WATER HAMMER ARRESTOR	
TPV	TEMP./PRESS RELIEF VALVE (ASME)	

ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
BFD	BACKFLOW DEVICE
BV	BALANCING VALVE (CALIBRATED)
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
CONT	CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
DN	DOWN
DW	DISTILLED WATER
DWG	DRAWING
(E)	EXISTING
ETBR	EXISTING TO BE REMOVED
ETR	EXISTING TO REMAIN
°F	DEGREE FAHRENHEIT
FD	FLOOR DRAIN
G	NATURAL GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IE	INVERT ELEVATION
KW	KILOWATT
LBS	POUNDS
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
SAN	SANITARY
TPV	TEMP./PRESSURE RELIEF VALVE
V	VENT
VTR	VENT THRU ROOF
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WTR	WATER

SHOCK ARRESTOR SCHEDULE

SIZE	FIXTURE UNITS	MANUFACTURER & MODEL NO.	
A	1–11	ANCOM	SHOK-GARD A
		JOSAM	75001
		ZURN	Z-1700-100
B	12–32	ANCOM	SHOK-GARD B
		JOSAM	75002
		ZURN	Z-1700-200
C	33–60	ANCOM	SHOK-GARD C
		JOSAM	75003
		ZURN	Z-1700-300
D	61–113	ANCOM	SHOK-GARD D
		JOSAM	75004
		ZURN	Z-1700-400

ALL UNITS SHALL BE P.D.I. RATED. AVAILABLE MANUFACTURERS: JR SMITH, JONESPEC OR WADE.

CODE CRITERIA

- FLORIDA BUILDING CODE (2004) WITH 2005 & 2006 REVISIONS
- FLORIDA PLUMBING CODE (2004) WITH 2005 & 2006 REVISIONS

DRAWING INDEX

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P1.2A	PLUMBING SECOND FLOOR - SANITARY - ZONE A
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P2.2C	PLUMBING SECOND FLOOR - WATER - ZONE C
P2.3A	PLUMBING THIRD FLOOR - WATER - ZONE A

REVISIONS:

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PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT NUMBER: 07014

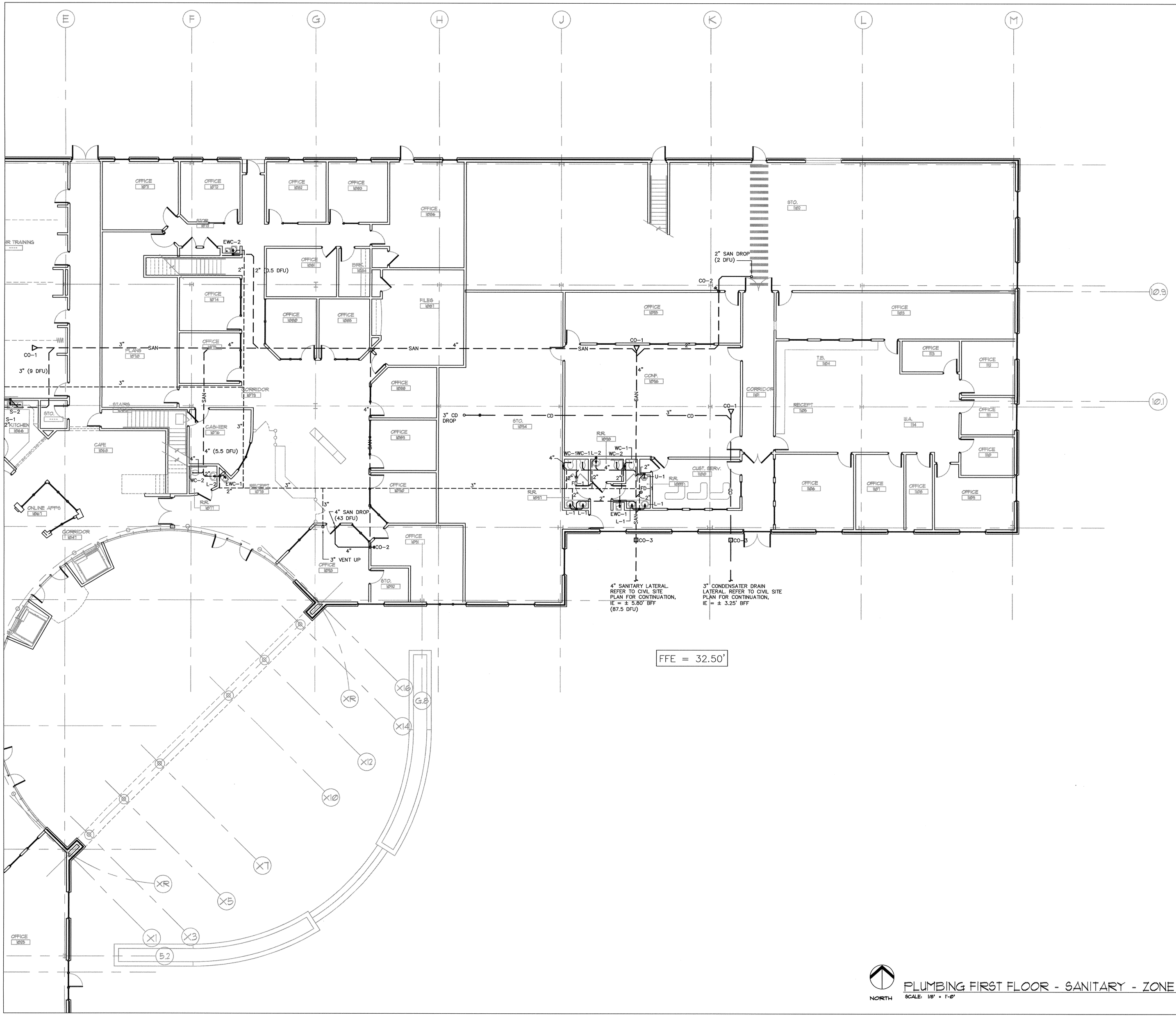
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PROJECT:
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PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING LEGENDS, NOTES, AND SYMBOLS

SHEET NUMBER:
P0.1


A
A.5
B
B.3
B.5
C
C.4
D
E
F
G
H
J
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10.2
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6
5
COMM. MEETING 1061
MEDIA/PRESS 1062
STO. 1063
HR TRAINING ----
CHAMBERS 1064
CONTROL 1062
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OFFICE 1097
OFFICE 1098
OFFICE 1099
OFFICE 1100
OFFICE 1101
OFFICE 1102
OFFICE 1103
OFFICE 1104
OFFICE 1105
OFFICE 1106
OFFICE 1107
OFFICE 1108
OFFICE 1109
OFFICE 1110
OFFICE



PLUMBING FIRST FLOOR - SANITARY - ZONE B

NORTH

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

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PHASE:	DRAWN	CHECKED	DATE
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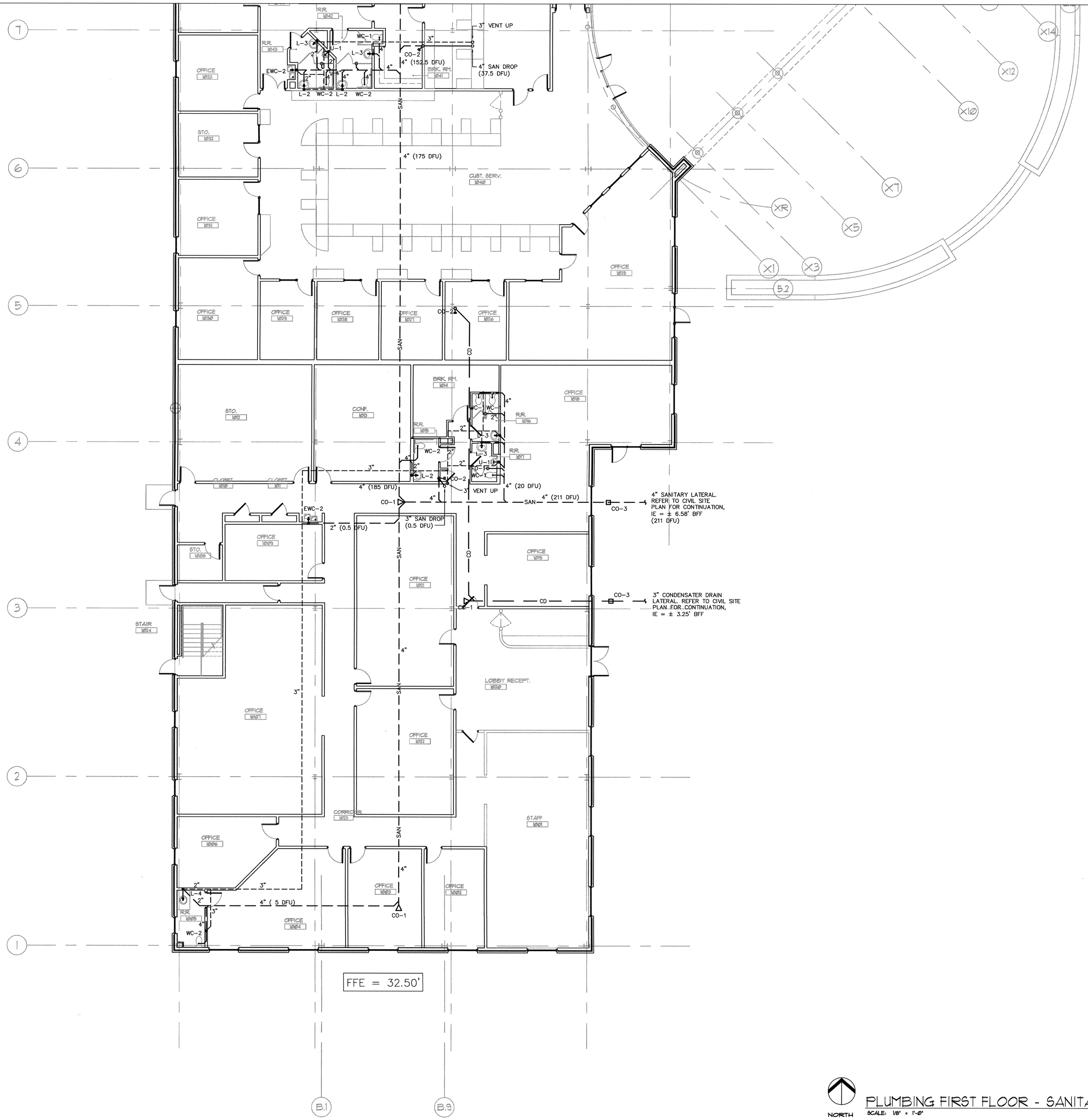
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING FIRST FLOOR SANITARY - ZONE B

SHEET NUMBER:

P1.1B



NORTH

PLUMBING FIRST FLOOR - SANITARY - ZONE C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING FIRST FLOOR SANITARY - ZONE C

SHEET NUMBER:
P1.1C



NORTH

PLUMBING SECOND FLOOR - SANITARY - ZONE A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

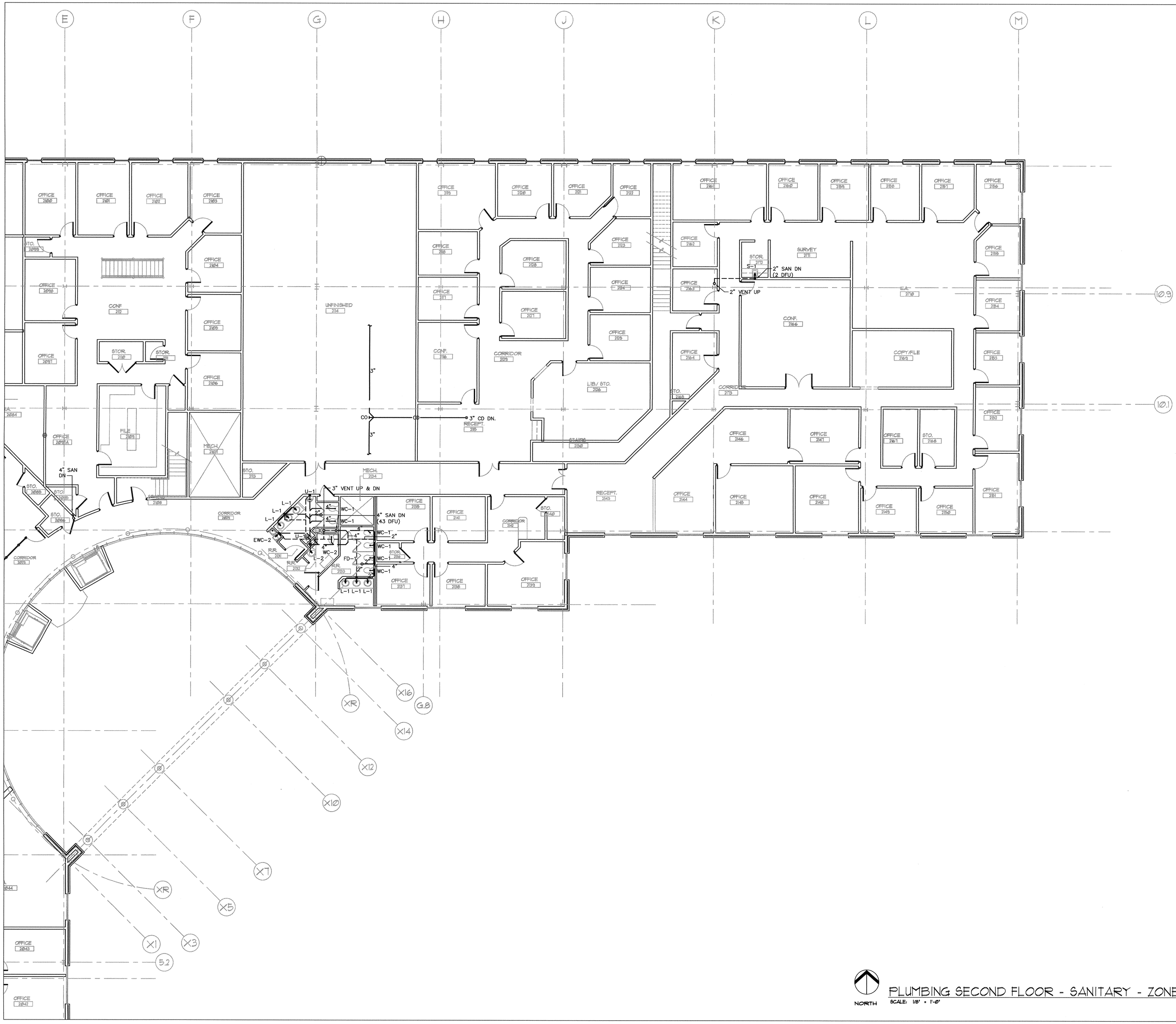
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR
SANITARY - ZONE A

SHEET NUMBER:

P12A



NORTH

PLUMBING SECOND FLOOR - SANITARY - ZONE B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	06-06-07
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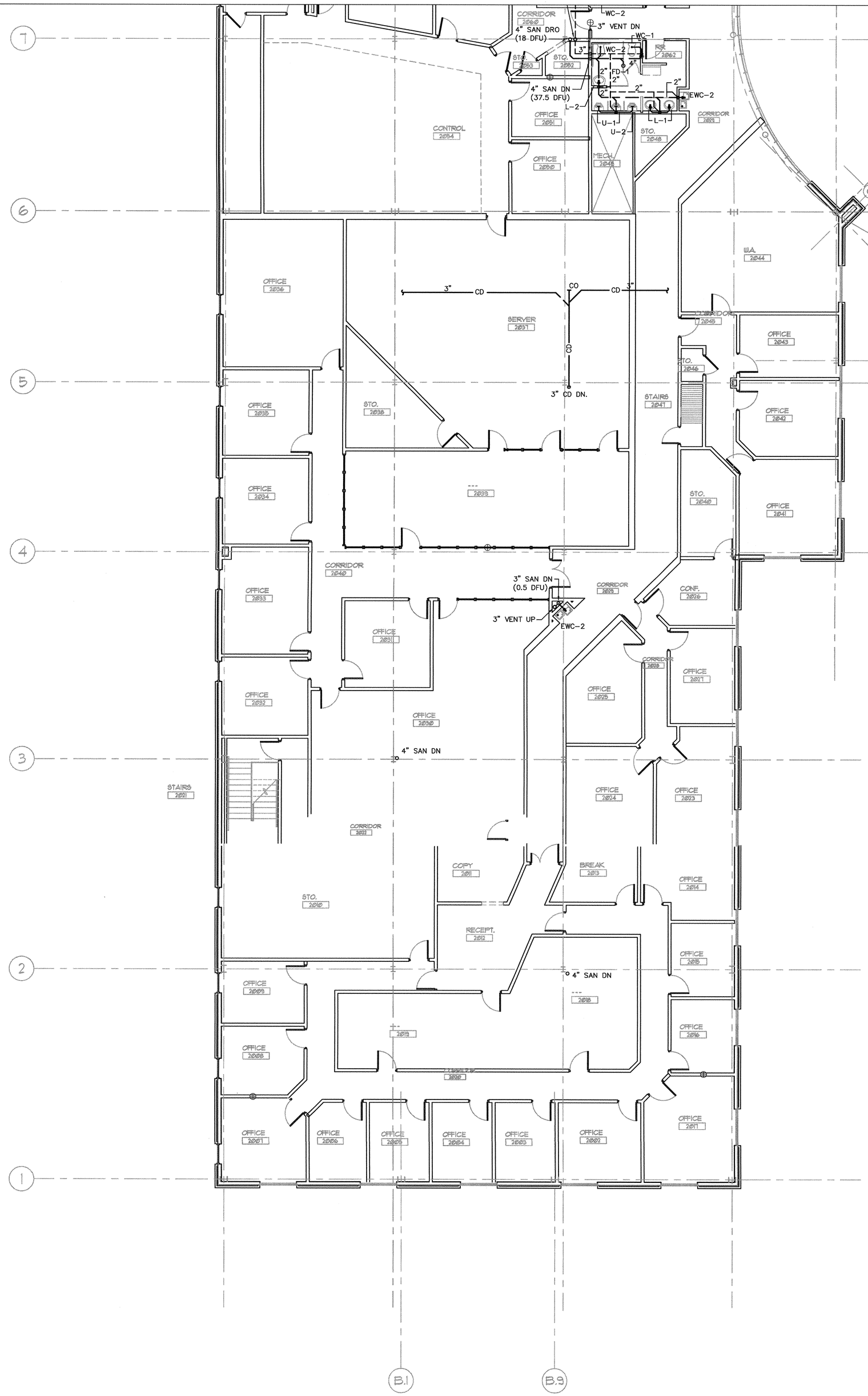
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PROJECT:
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PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SECOND FLOOR SANITARY - ZONE B

SHEET NUMBER:
P1.2B



PLUMBING SECOND FLOOR - SANITARY - ZONE C

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

NORTH

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-08-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR SANITARY - ZONE C

SHEET NUMBER:

P1.2C



NORTH

PLUMBING THIRD FLOOR - SANITARY - ZONE A

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

REVISIONS:

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DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-08-07
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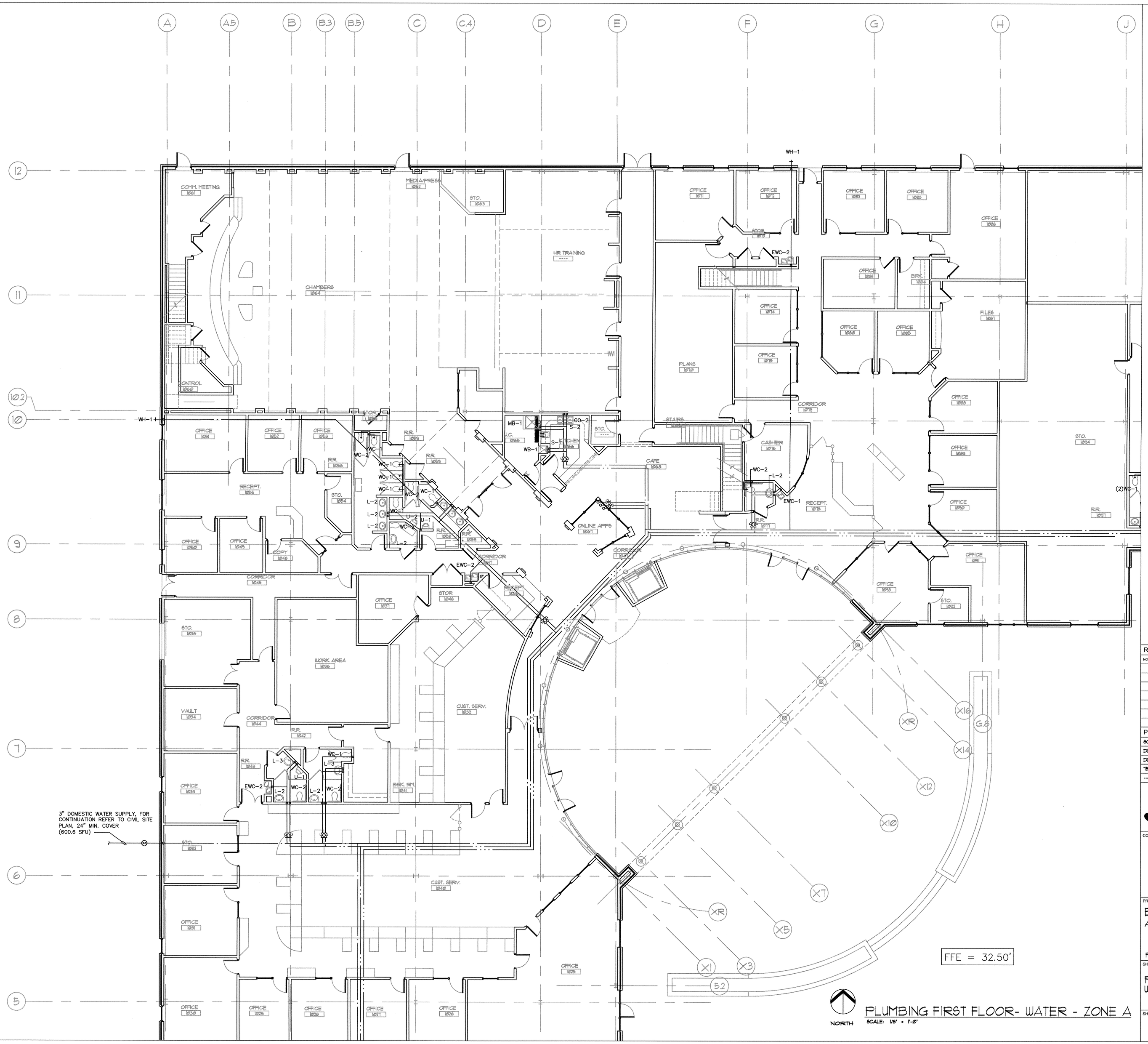
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING THIRD FLOOR
SANITARY - ZONE A

SHEET NUMBER:
P1.3A



PLUMBING FIRST FLOOR- WATER - ZONE A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	05-05-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING FIRST FLOOR WATER - ZONE A

SHEET NUMBER:

P2.1A

E F G H J K L M

WH-1

OFFICE 1011 | OFFICE 1012 | ATTR. 1013 | EWC-2 | OFFICE 1082 | OFFICE 1083 | OFFICE 1086 | STO. 1102

OFFICE 1081 | BRK. 1084 | OFFICE 1074 | FILES 1087 | OFFICE 1085 | OFFICE 1103

OFFICE 1080 | OFFICE 1088 | PLANS 1076 | OFFICE 1075 | CONF. 1096 | T.B. 1104 | OFFICE 1113 | OFFICE 1112

CORRIDOR 1079 | CORRIDOR 1101 | RECEPT. 1105 | OFFICE 1111

STAIRS 1089 | STO. 1094 | W.A. 1114

STO. | CASHIER 1016 | OFFICE 1093 | RR. 1098 | OFFICE 1110

CAFE 1068 | WC-2 | L-2 | EWC-1 | RECEPT. 1018 | OFFICE 1090 | (2)WC-1 | L-2 | WC-2 | WC-1 | U-1 | CUST. SERV. 1100 | OFFICE 1109

RR. 1071 | RR. 1097 | (2)L-1 | (2)L-1 | RR. 1099 | OFFICE 1106 | OFFICE 1107 | OFFICE 1108

ONLINE APPS 1067 | EWC-1 | WH-1

CORRIDOR 1069 | OFFICE 1091 | OFFICE 1092 | STO. 1095

10.9

10.1

XR X16 G.8 X14 X12 X10 X7 XR X5 X1 X3 5.2

FFE = 32.50'

NORTH

PLUMBING FIRST FLOOR - WATER - ZONE B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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PROJECT NUMBER: 07014

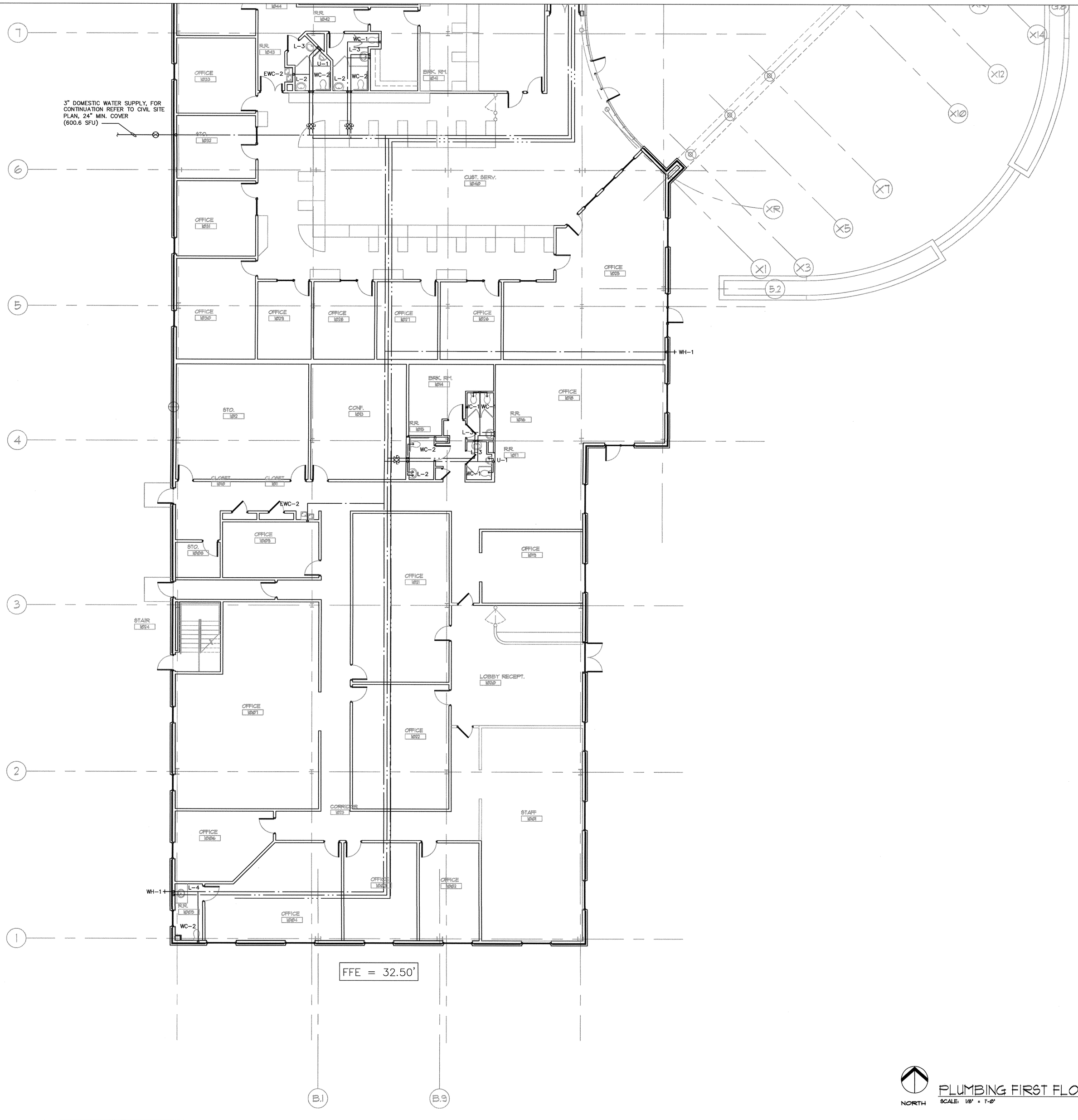
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING FIRST FLOOR WATER - ZONE B

SHEET NUMBER:
P2.1B



NORTH

PLUMBING FIRST FLOOR - WATER - ZONE C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING FIRST FLOOR WATER - ZONE C

SHEET NUMBER:
P2.1C

PLUMBING SECOND FLOOR - WATER - ZONE A

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

NORTH

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SECOND FLOOR
WATER - ZONE A

SHEET NUMBER:
P2.2A

C.4 D E F G H J K L M

OFFICE 2081 | OFFICE 2080 | OFFICE 2101 | OFFICE 2102 | OFFICE 2103 | OFFICE 2119 | OFFICE 2120 | OFFICE 2121 | OFFICE 2122 | OFFICE 2161 | OFFICE 2160 | OFFICE 2159 | OFFICE 2158 | OFFICE 2157 | OFFICE 2156
STO. 2079 | OFFICE 2082 | OFFICE 2078 | OFFICE 2104 | OFFICE 2118 | OFFICE 2108 | OFFICE 2123 | OFFICE 2162 | SURVEY 2111 | OFFICE 2155
OFFICE 2083 | OFFICE 2081 | CONF. 2112 | OFFICE 2105 | OFFICE 2111 | OFFICE 2121 | OFFICE 2124 | OFFICE 2163 | STOR. 2117 | OFFICE 2154
STOR. 2110 | STOR. 2111 | UNFINISHED 2114 | OFFICE 2125 | OFFICE 2164 | U.A. 2170
OFFICE 2106 | CONF. 2116 | CORRIDOR 2125 | LIB./ STO. 2126 | CONF. 2166 | OFFICE 2153
W.A. 2084 | RECEPT. 2115 | STAIRS 2150 | STO. 2165 | CORRIDOR 2113 | COPY/FILE 2169
OFFICE 2085A | FILE 2109 | MECH. 2107 | STO. 2113 | TECH. 2134 | OFFICE 2146 | OFFICE 2147 | OFFICE 2167 | STO. 2168 | OFFICE 2152
O.R. 2088 | RECEPT. 2087 | CORRIDOR 2129 | RECEPT. 2143 | OFFICE 2144 | OFFICE 2145 | OFFICE 2148 | OFFICE 2149 | OFFICE 2150 | OFFICE 2151
STO. 2086 | STO. 2090 | STO. 2091 | CORRIDOR 2089 | STO. 2146 | CORRIDOR 2142 | OFFICE 2135 | OFFICE 2141 | OFFICE 2137 | OFFICE 2138 | OFFICE 2139 | STOR. 2136
STO. 2092 | STO. 2093 | RR 2131 | RR 2132 | WC-1 | WC-2 | U-1 | (3)L-1 | EWC-2 | L-1 L-1 L-1
WC-1 | (3)L-1 | L-2 | C-2 WC-1 | RR 2095 | RR 2096 | C-2 WC-1 | L-1 L-1 | EWC-2 | 1,U-1,U-2
CORRIDOR 2094 | STO. 2048 | W.A. 2044 | OFFICE 2043 | STO. 2046 | STAIRS 2041 | OFFICE 2042

X16 G.B XR X14 X12 X10 X7 XR X5 X3 X1 5.2

NORTH

PLUMBING SECOND FLOOR- WATER - ZONE B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	·	·	03-26-07
DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-08-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
----	·	·	----

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

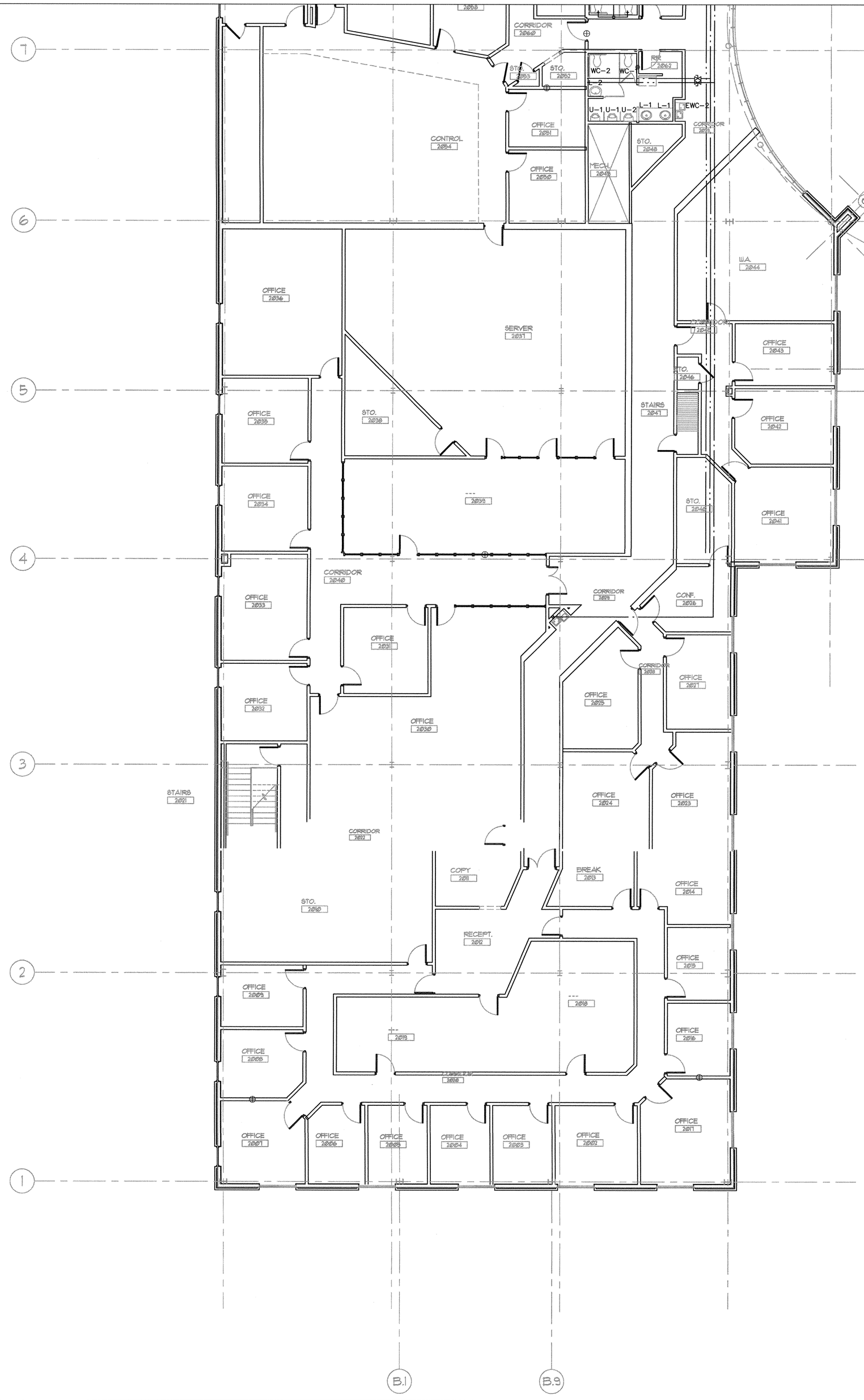
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR WATER - ZONE B

SHEET NUMBER:

P2.2B



NORTH

PLUMBING SECOND FLOOR - WATER - ZONE C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SECOND FLOOR WATER - ZONE C

SHEET NUMBER:
P2.2C

STRUCTURAL NOTES

GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.

2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

7. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATIONS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.

8. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.

9. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC.

12. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

13. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

14. WHERE A SECTION OR DETAIL IS SHOWN OR DETAILED FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR.THE CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.

15. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY OTHERS AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2004 EDITION, WITH 2005 AND 2006 SUPPLEMENTS.

2. GRAVITY LOADS

   2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

OFFICES (INCLUDES PARTITIONS)	80 PSF
GENERAL AREAS ABOVE THE FIRST FLOOR	80 PSF
CORRIDORS - FIRST FLOOR	100 PSF
CORRIDORS - ABOVE FIRST FLOOR	80 PSF
MECHANICAL ROOMS	150 PSF
STORAGE (LIGHT/HEAVY)	125/250 PSF

   2.2 UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20 PSF REDUCIBLE

   2.3 CONCENTRATED FLOOR LOADS - DISTRIBUTED OVER AN AREA OF 2.5 FEET SQUARE, UNLESS NOTED OTHERWISE:

OFFICE	2000 LB

3. WIND LOADS:

   BASIC WIND SPEED (3-SECOND GUST) = 130 MPH
   WIND IMPORTANCE FACTOR, I = 1.0
   WIND EXPOSURE = B
   INTERNAL PRESSURE COEFFICIENT, GCpi = 0.18

   COMPONENTS AND CLADDING - COMPONENT AND CLADDING WIND PRESSURES (PSF) ARE PROVIDED IN THE TABLE ON THIS PAGE

5. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/360	L/240
FLOOR MEMBERS:	L/360	L/240
TRUSSES:	SEE ELEVATION	SEE TRUSS ELEVATION

   WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.)

6. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

FOUNDATION

1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY MICHAEL VARNER, P.E. OF SOUTHERN EARTH SCIENCES PANAMA CITY OFFICE, REPORT NUMBER _____ DATED _____
   STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.

2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.

3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF AND 2000 PSF, RESPECTIVELY.

4. FOUNDATION WALLS ARE DESIGNED FOR LATERAL PRESSURES DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:

   WALLS SUPPORTED AT TOP (AT-REST CONDITION): _____ PCF
   WALLS FREE TO DISPLACE AT TOP (ACTIVE CONDITION): _____ PCF

5. PROOFROLL BUILDING AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP-TRUCK OR SCRAPER. REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.

6. DENSIFY BUILDING AREAS AND A MINIMUM OF 10'-0" OUTSIDE THE BUILDING PERIMETER USING A VIBRATORY ROLLER (SEE SPECIFICATIONS).

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIDE AND END LAPS OF 8".

3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

4. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

5. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

   5.1 CAST-IN-PLACE CONCRETE REINFORCEMENT COVER

PERMANENTLY EXPOSED TO EARTH: CAST AGAINST THE EARTH	3"	CLEAR
EXPOSED TO EARTH OR WEATHER: FOR BARS LARGER THAN A NO. 5 BAR	2"	CLEAR
NO. 5 BARS OR SMALLER	1-1/2"	CLEAR
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: WALLS	3/4"	CLEAR
SLABS	3/4"	CLEAR

   5.2 MASONRY CONCRETE REINFORCEMENT COVER

   MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF CMU CELLS, UNLESS NOTED OTHERWISE. IF REINFORCING STEEL IS NOTED TO BE PLACED OTHER THAN THE CENTER OF THE CELL, PLACE BAR TO ACHIEVE 2" CLEAR COVER BETWEEN REINFORCING AND OUTSIDE FACE OF CMU BLOCK.

6. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   CONCRETE REINFORCEMENT: CLASS B TENSION LAP
   MASONRY REINFORCEMENT: MINIMUM LAP LENGTH - SEE TABLE BELOW

REBAR SIZE	LAP (LD) INCHES
#4	36
#5	45
#6	54

7. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL BE EITHER THE HIT HY150 INJECTION ADHESIVE SUPPLIED BY HILTI FASTENING SYSTEMS, THE EPCON SYSTEM CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD, POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING, ACRYLIC-TIE ADHESIVE SUPPLIED BY SIMPSON STRONG-TIE CO., OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.

2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

   2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:

FOOTINGS, PEDESTALS	3,000 PSI	w/c=0.55
FOUNDATION WALLS	4,000 PSI	w/c=0.52
SLABS-ON-GRADE	4,000 PSI	w/c=0.48

   2.2 LIGHTWEIGHT STRUCTURAL CONCRETE: (110-120 PCF FRESH UNIT WEIGHT/107-116 PCF AIR-DRIED UNIT WEIGHT)

SLABS ON COMPOSITE STEEL DECK	3,000 PSI

3. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.

4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF ALL CONCRETE FINISHES AND SLAB DEPRESSIONS.

5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

6. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.

7. CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS, BEAMS, AND GIRDERS. JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS.

CONCRETE MASONRY

1. CONCRETE MASONRY WORK SHALL CONFORM TO ACI 530, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1, SPECIFICATION FOR MASONRY STRUCTURES.

2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE F'M = 1,500 PSI.

3. MORTAR SHALL BE TYPE S AND SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY.

4. CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2,500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT SHALL CONFORM TO ASTM C476.

5. PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE LONGITUDINAL WIRES AT 16" VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.

6. PROVIDE OPEN BOTTOM BEAM BLOCK UNITS WITH 3" DEEP MINIMUM WEB OPENINGS AT HORIZONTAL REINFORCEMENT LOCATIONS. A MINIMUM CLEAR SPACE OF ONE BAR DIAMETER SHALL BE PROVIDED BETWEEN THE REINFORCING BARS AND THE FACE OF MASONRY UNITS.

7. PROVIDE CONTRACTION (CONTROL) JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE ARCHITECT AT A MAXIMUM SPACING OF 2.0 TIMES THE WALL HEIGHT OR 25'-0", WHICHEVER IS LESS.

8. PROVIDE DOVETAIL ANCHORS AT 16" C/C, UNLESS NOTED OTHERWISE. WHERE MASONRY WALLS ABUT STEEL OR CONCRETE SURFACES.

9. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

2. STRUCTURAL STEEL SHALL BE OF THE FOLLOWING GRADE UNLESS NOTED OTHERWISE ON DRAWINGS:

   2.1 W-SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. (ASTM A572, GRADE 50 MAY BE SUBSTITUTED FOR ASTM A992.)

   2.2 SQUARE/RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

   2.3 ROUND PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B.

   2.4 OTHER STEEL SHAPES (CHANNELS, ANGLES, PLATES, AND ROUND ROD) MAY CONFORM TO ASTM A36.

3. BOLTS, ANCHOR RODS, AND HEADED STUDS:

   3.1 ALL CONNECTIONS SHALL BE SLIP CRITICAL WITH A MINIMUM 3/4" DIAMETER A325 HIGH-STRENGTH BOLTS.

   3.2 ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.

   3.3 EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II ANCHORS SUPPLIED BY HILTI FASTENING SYSTEMS, TRUBOLT WEDGE ANCHORS SUPPLIED BY ITW RAMSET/RED HEAD, POWER-STUD ANCHORS SUPPLIED BY POWERS FASTENING, WEDGE-ALL ANCHORS SUPPLIED BY SIMPSON STRONG-TIE CO., OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 6 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.

   3.4 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH HIT HY150 INJECTION ADHESIVE (HIT HY20 INJECTION ADHESIVE FOR MASONRY CONSTRUCTION WITH VOIDS) SUPPLIED BY HILTI FASTENING SYSTEMS, EPCON SYSTEM CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD, POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING, ACRYLIC-TIE ADHESIVE SUPPLIED BY SIMPSON STRONG-TIE CO., OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 12 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.

   3.5 HEADED STUDS SHALL BE 3/4" DIAMETER, UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO AWS D1.1. LENGTH OF STUD SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING:

   COMPOSITE BEAMS: 3-7/8" LONG HEADED STUDS (FOR 5 1/4" SLABS)
   MISCELLANEOUS EMBEDS: SEE STRUCTURAL DETAILS

4. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

   4.1 STANDARD SHEAR CONNECTIONS SHALL BE DETAILED AS DOUBLE-ANGLE, SINGLE-PLATE, SINGLE-ANGLE, OR TEE CONNECTIONS IN ACCORDANCE WITH CONNECTION TABLES IN THE "MANUAL OF STEEL CONSTRUCTION: LRFD", THIRD EDITION, PART 10.

   4.2 FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PREQUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.

   4.3 FACTORED DESIGN REACTIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. IF REACTIONS ARE NOT SHOWN : FOR BEAMS W10 AND SMALLER, PROVIDE MINIMUM SHEAR CAPACITY; FOR BEAMS W12 AND LARGER, THE FACTORED DESIGN REACTION SHALL BE HALF OF THE MAXIMUM FACTORED UNIFORM LOAD TABULATED IN THE MANUAL OF STEEL CONSTRUCTION: LRFD", THIRD EDITION, PART 5.

   4.4 STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS OF SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.

5. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDED LEVEL.

6. SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91, UNLESS NOTED OTHERWISE ON DRAWINGS.

7. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD PER THE SPECIFICATIONS.

8. THE STRUCTURAL STEEL MEMBERS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE TORSION RESULTING FROM THE ECCENTRIC LOADING OF THE CURTAINWALL / WINDOW WALL SYSTEMS, LIGHT GAUGE METAL FRAMING, ETC. SUPPLEMENTAL SECONDARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE SUPPLIER TO ELIMINATE THE TORSION.

9. ALL STEEL EXPOSED TO WEATHER OR MOISTURE SHALL BE GALVANIZED AND PAINTED, UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.

STEEL DECK

1. DESIGN OF STEEL DECK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI) AND THE CONTRACT DOCUMENTS. SUBMIT SHOP DRAWINGS WITH DESIGN LOAD DATA SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL DECK.

2. COMPOSITE STEEL DECK SHALL BE CAPABLE OF SUPPORTING THE LOADS DESCRIBED IN THE SPECIFICATIONS, CORRESPONDING TO THE NUMBER OF SPANS AND THE SPAN LENGTH.

   2.1 COMPOSITE FLOOR DECK IS DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE.

   2.2 COMPOSITE FLOOR SLABS ARE TO BE FINISHED LEVEL. THE WEIGHT OF THE WET CONCRETE WILL CAUSE DEFLECTIONS OF THE STEEL FRAMING, THUS, CONCRETE OVERRUNS ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BASE BID.

   2.3 COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS.

3. ROOF DECK SHALL BE A MINIMUM OF 22 GAGE; DECK FINISH SHALL BE G90 GALVANIZED.

COLD-FORMED STEEL

1. COLD-FORMED STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" OR "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR COLD-FORMED STEEL STRUCTURAL MEMBERS".

2. DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.

3. COLD-FORMED STEEL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN IN THE STRUCTURAL DOCUMENTS. REFER TO THE SPECIFICATIONS.

4. COLD-FORMED STEEL TRUSSES SHALL BE DESIGNED FOR THE DESIGN LOADS SHOWN IN THE CONTRACT DOCUMENTS. REFER TO THE SPECIFICATIONS.

5. COLD-FORMED STEEL STRUCTURAL MEMBERS MAY BE ATTACHED BY EITHER WELDS OR SCREWS SIZED BY THE MANUFACTURER FOR THE SPECIFIED DESIGN LOADS. SEE THE SPECIFICATIONS.

6. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.

7. WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION.

COMPONENTS AND CLADDING WIND PRESSURES ON WALLS AND ROOFS

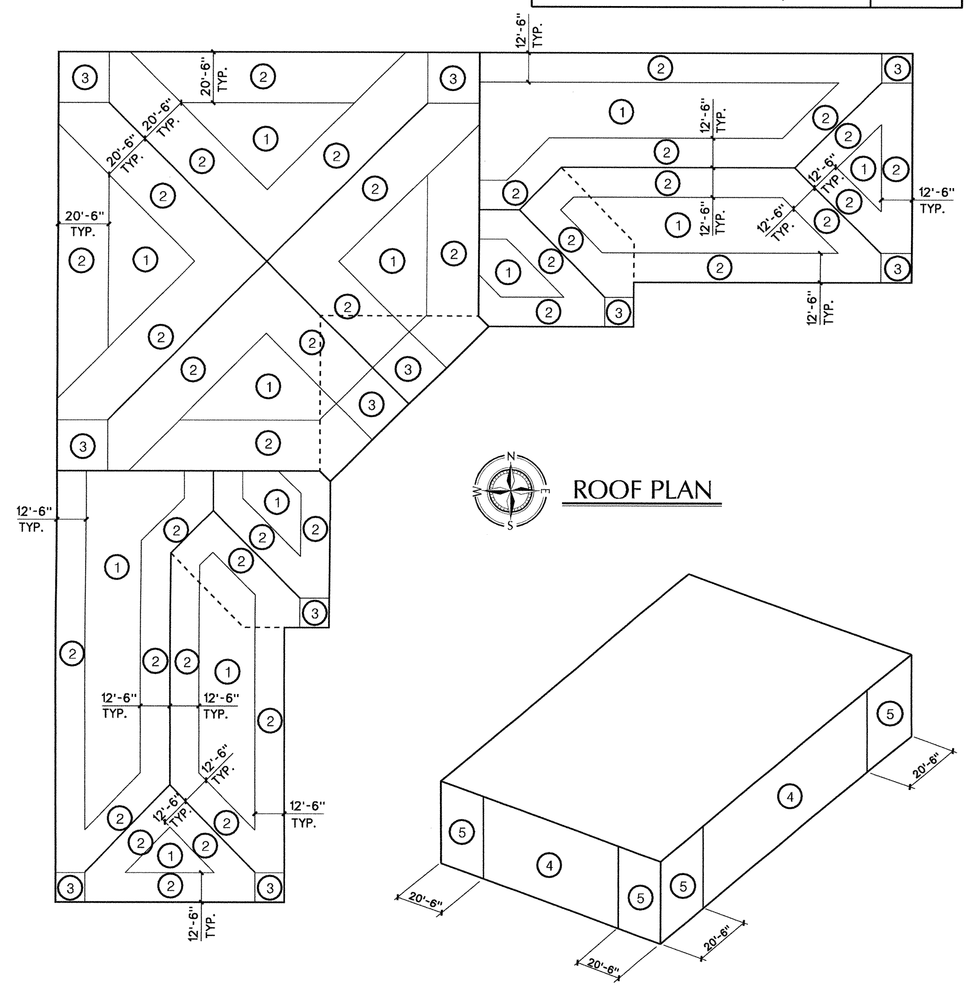
AREA (sq. ft.)	POSITIVE Zone 4 (psf)	POSITIVE Zone 5 (psf)	NEGATIVE Zone 1 (psf)	NEGATIVE Zone 2 (psf)	NEGATIVE Zone 3 (psf)	NEGATIVE Zone 4 (psf)	NEGATIVE Zone 5 (psf)
10	37	37	-34	-59	-88	-40	-50
20	36	36	-33	-55	-82	-39	-47
50	33	33	-32	-48	-75	-37	-42
100	32	32	-31	-44	-69	-35	-39

NOTES:

1. POSITIVE AND NEGATIVE SIGNS INDICATE PRESSURE ACTING TOWARD AND AWAY FROM THE SURFACE, RESPECTIVELY.
2. ZONES 1, 2, AND 3 ARE FOR ROOFS. ZONES 4 AND 5 ARE FOR WALLS.
3. VALUES GIVEN ARE FOR 50 YEAR MRI(MEAN RECURRENCE INTERVAL) AS REQUIRED FOR STRENGTH CALCULATIONS.

WIND LOADS - 2004 FLORIDA BUILDING CODE
Reference Document: ASCE 7-02

BASIC WIND SPEED, V=	130 mph (3 second gust)	
IMPORTANCE FACTOR, I=	1.00	
EXPOSURE=	B	
MEAN ROOF HEIGHT=	63 ft. max.	Kz= 0.86
Internal Pressure Coeff.=	±0.18	Kzt= 1.00
WIND PRESSURE q=	31.6 psf.	Kd= 0.85



ROOF PLAN

ISOMETRIC

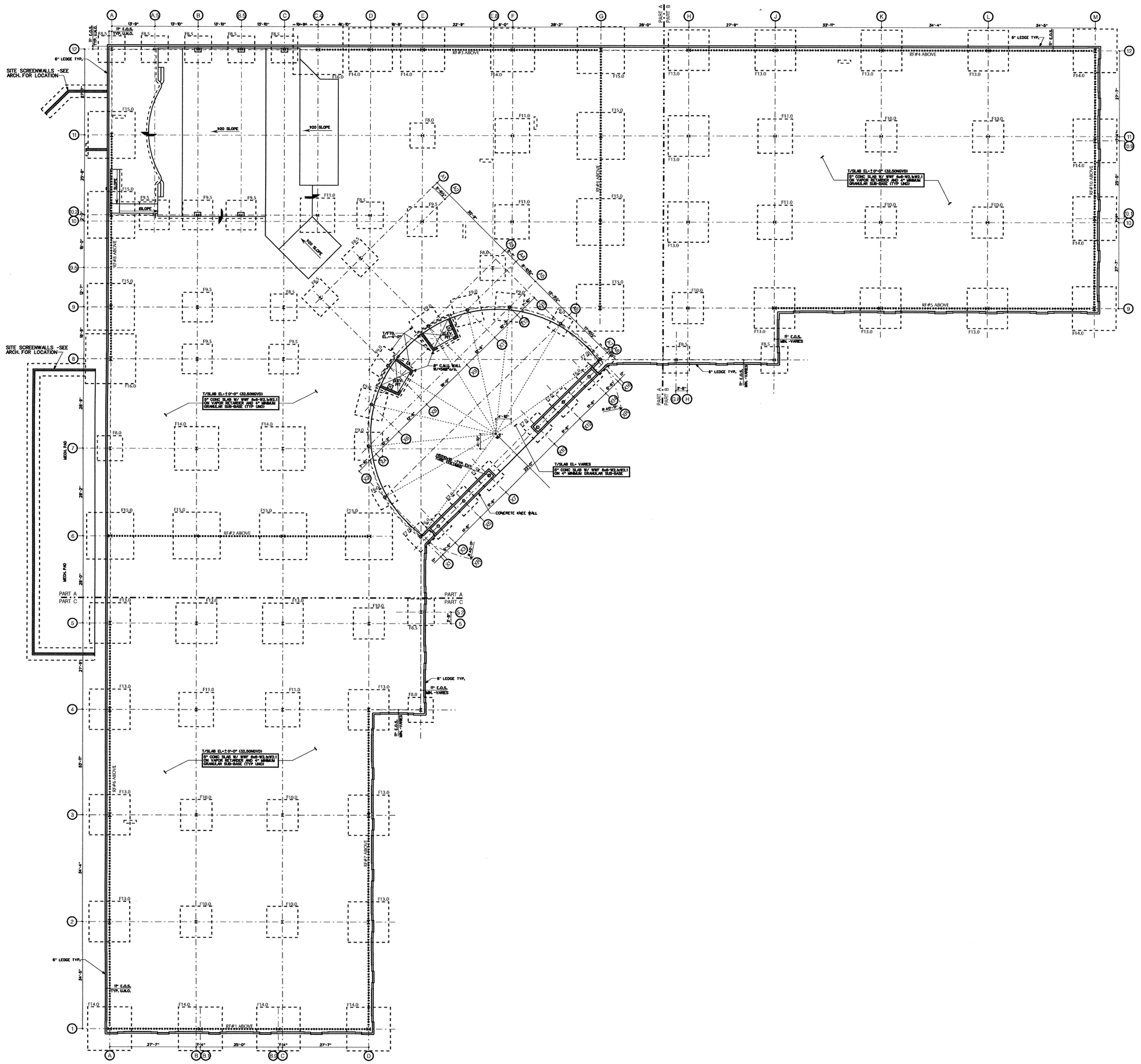
STRUCTURAL DRAWING INDEX

Drawing Number	Description
S0.1	STRUCTURAL NOTES
S1.1	OVERALL FIRST FLOOR / FOUNDATION PLAN
S1.1A	FIRST FLOOR / FOUNDATION PLAN - PART "A"
S1.1B	FIRST FLOOR / FOUNDATION PLAN - PART "B"
S1.1C	FIRST FLOOR / FOUNDATION PLAN - PART "C"
S1.2	OVERALL SECOND FLOOR FRAMING PLAN
S1.2A	SECOND FLOOR FRAMING PLAN - PART "A"
S1.2B	SECOND FLOOR FRAMING PLAN - PART "B"
S1.2C	SECOND FLOOR FRAMING PLAN - PART "C"
S1.3	OVERALL THIRD FLOOR FRAMING PLAN
S1.3A	THIRD FLOOR FRAMING PLAN - PART "A"
S1.3B	THIRD FLOOR FRAMING PLAN - PART "B"
S1.3C	THIRD FLOOR FRAMING PLAN - PART "C"
S1.4	OVERALL ROOF FRAMING PLAN
S1.4A	ROOF FRAMING PLAN - PART "A"
S1.4B	ROOF FRAMING PLAN - PART "B"
S1.4C	ROOF FRAMING PLAN - PART "C"
S1.5	HIGH ROOF FRAMING PLAN
S2.1	FOUNDATION SECTIONS AND DETAILS
S2.2	FOUNDATION SECTIONS AND DETAILS
S3.1	FRAMING SECTIONS AND DETAILS
S3.2	FRAMING SECTIONS AND DETAILS
S3.3	FRAMING SECTIONS AND DETAILS
S4.1	COLUMN SCHEDULE WITH DETAILS
S5.1	RIGID FRAME ELEVATIONS AND DETAILS
S5.2	RIGID FRAME ELEVATIONS

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE



OVERALL FIRST FLOOR / FOUNDATION PLAN

0' 4' 8' 16' 24'

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:				
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PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	09/06/07
75% CHECK SET	G.C.	WM/RR	11/15/07

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REGISTRATION NO. 00837
COA NO. C.A.#1329
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 58922

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

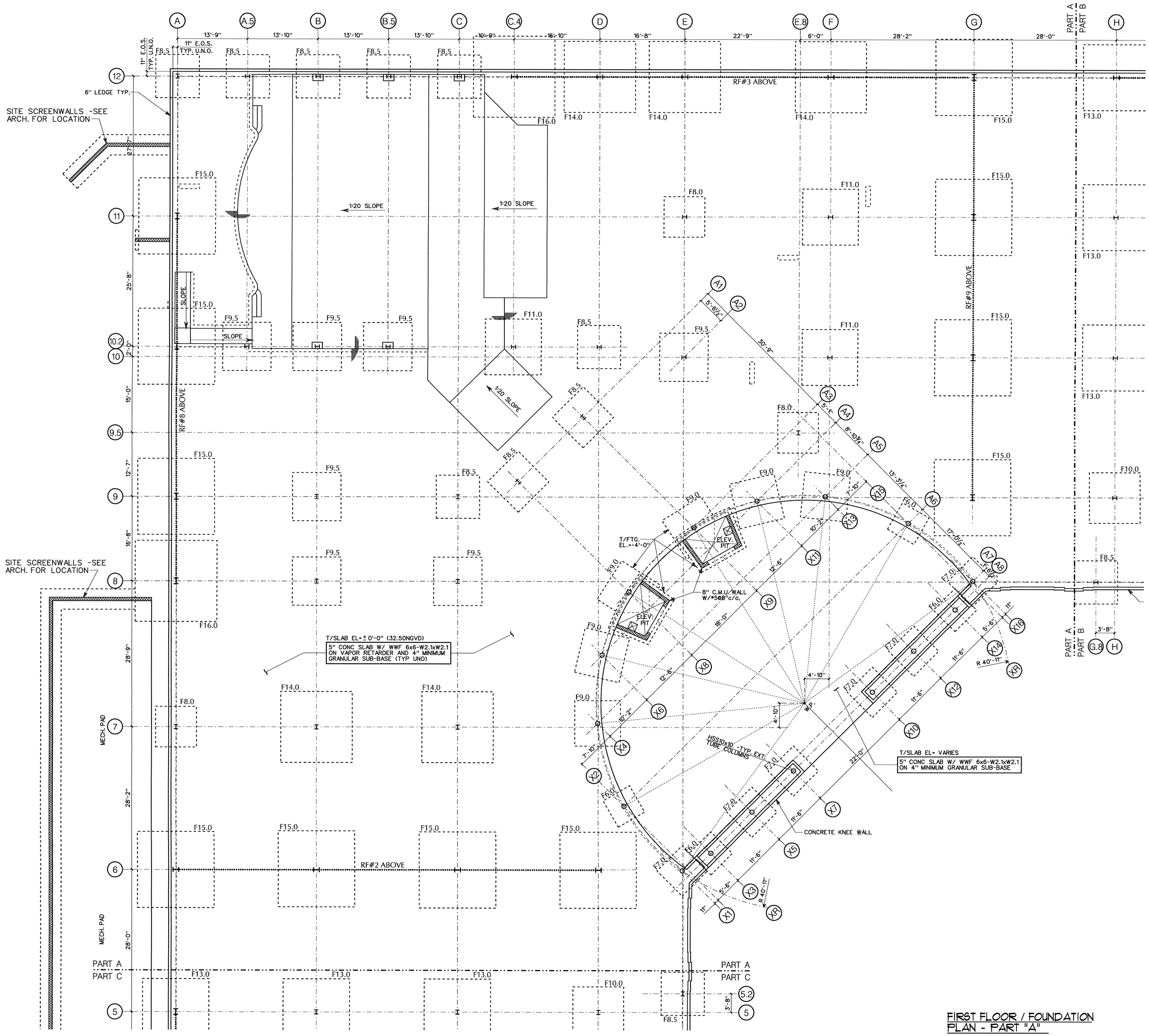
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OVERALL FIRST FLOOR / FOUNDATION PLAN

SHEET NUMBER:

S1.1

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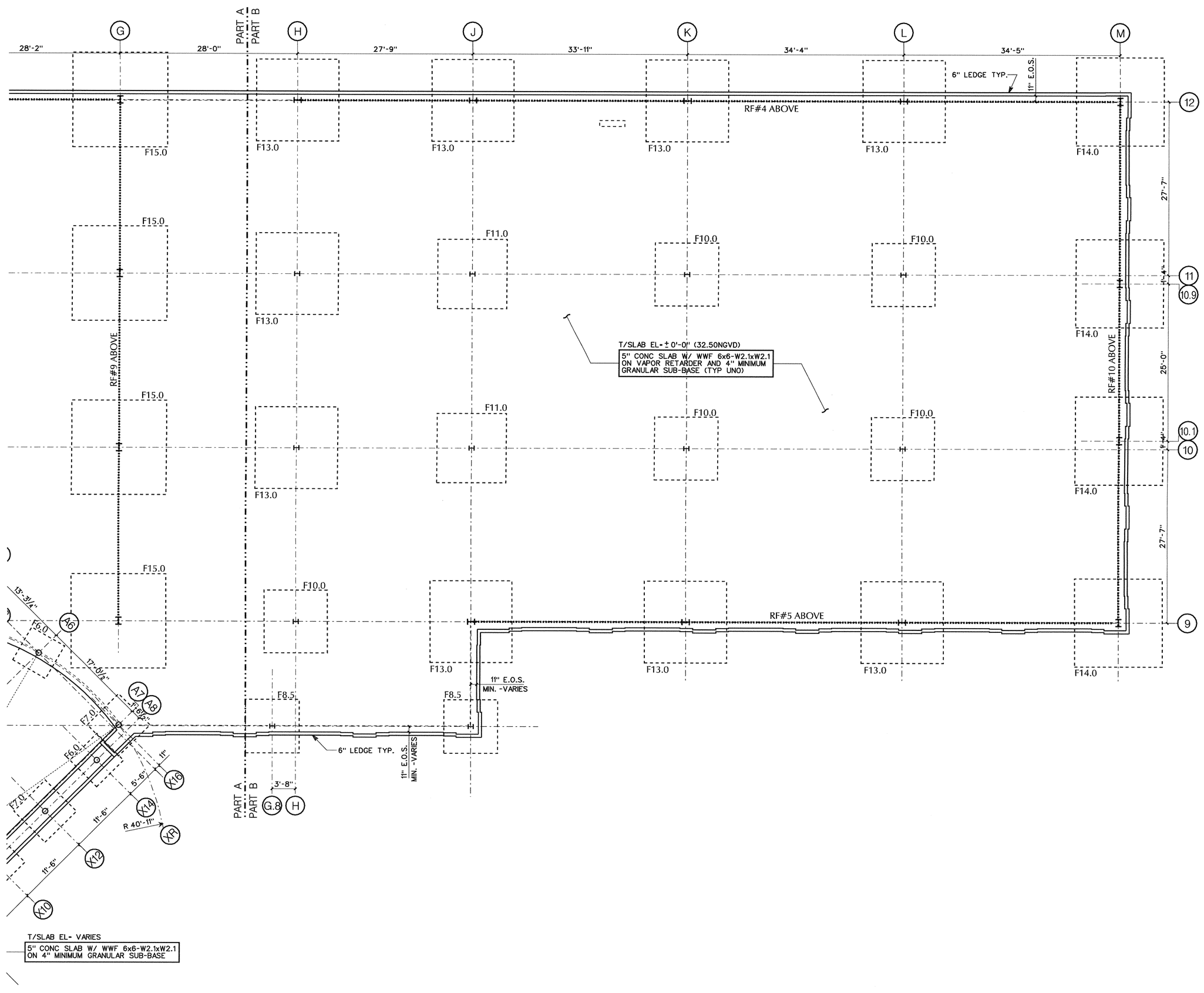
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REGISTRATION NO. 108832
CDA NO. C.A. 9123
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FIRST FLOOR / FOUNDATION PLAN - PART "A"

SHEET NUMBER:
S1.1A



FIRST FLOOR / FOUNDATION
PLAN - PART "B"

0' 4' 8' 16' 24'

REVISIONS:				
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PHASE:		DRAWN	CHECKED	DATE
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75% CHECK SET		G.C.	WM/RR	11/5/07

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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

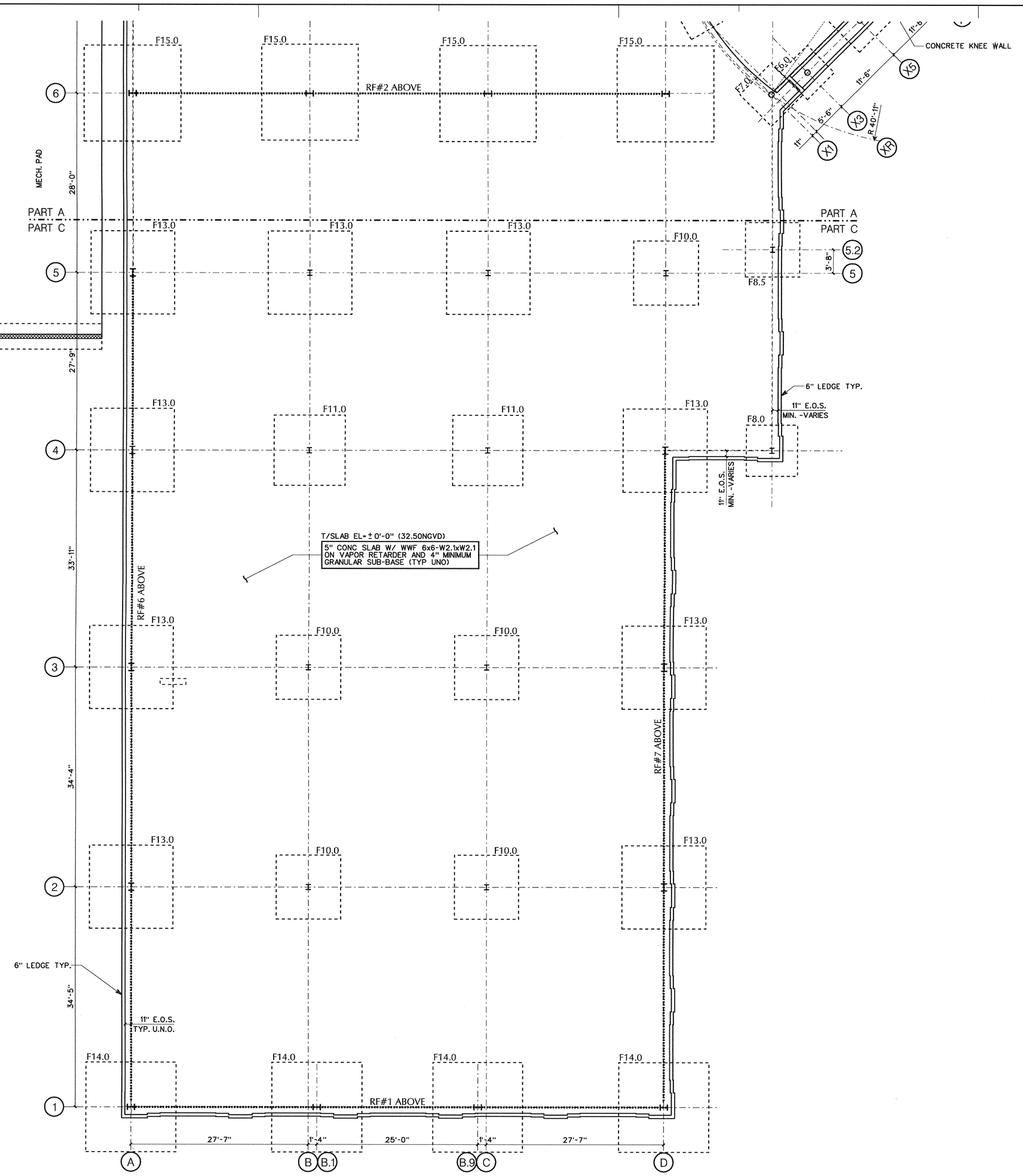
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FIRST FLOOR / FOUNDATION
PLAN - PART "B"

SHEET NUMBER:
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FIRST FLOOR / FOUNDATION
PLAN - PART "C"

0' 4' 8' 16' 24'

REVISIONS:				
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PHASE:		DRAWN	CHECKED	DATE
	DESIGN DEVELOPMENT	G.C.	WM/RR.	09/06/07
	75% CHECK SET	G.C.	WM/RR.	11/8/07

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Commission Number: 05311

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FLORIDA P.E. REGISTRATION No. 59623

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

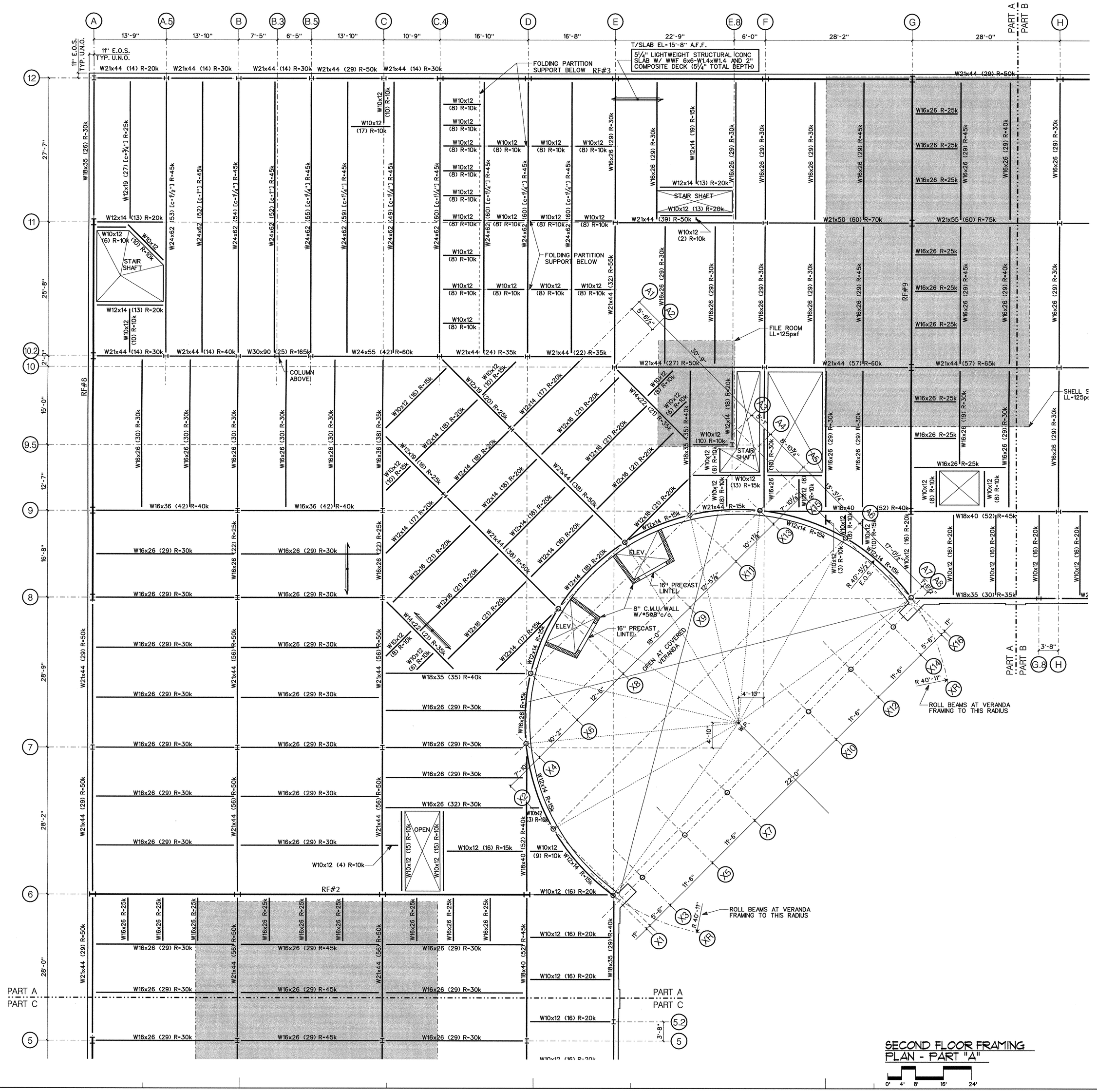
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PLAN - PART "C"

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T/SLAB EL=9'-9" A.F.F.
8½" LIGHTWEIGHT STRUCTURAL CONC. SLAB W/ WWF 6x6-W2.9xW2.9 MIN. ON COMPOSITE DECK (VULCRAFT 3VL) TOTAL DEPTH=
FOLDING PARTITION ABOVE
FOLDING PARTITION BELOW
STAIR SHAFT
ELEV. SHAFT
TILE ROOM LL=100psf
SHELL SPACE LL=100psf
COLUMN ABOVE
ROOF DRAIN
SEE PLAN
SEE DETAIL
ROOF DRAIN OVERFLOW
SEE DETAIL
SEE PLAN
SEE DETAIL
SEE PLAN
SEE DETAIL
SEE PLAN



SECOND FLOOR FRAMING PLAN - PART "A"

0' 4' 8' 16' 24'

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PHASE:		DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT		G.C.	WM/RR	06/06/07
75% CHECK SET		G.C.	WM/RR	11/15/07

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Commission Number: 05311

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR FRAMING PLAN - PART "A"

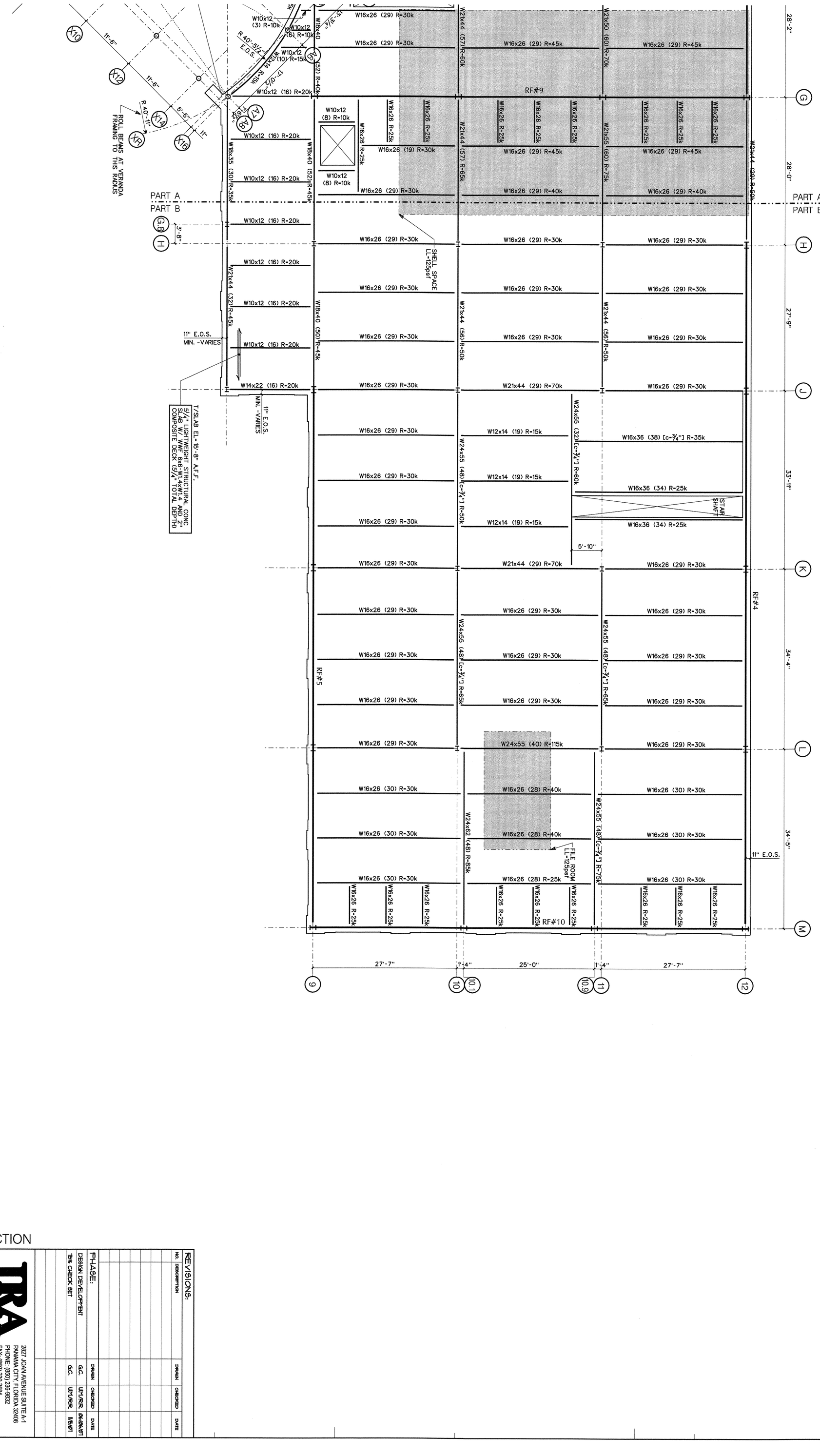
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SECOND FLOOR FRAMING
PLAN - PART "B"

0' 4' 8' 16' 24'

75% CHECK SET –NOT FOR CONSTRUCTION

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/26/07
75% CHECK SET	G.C.	WM/RR	11/5/07

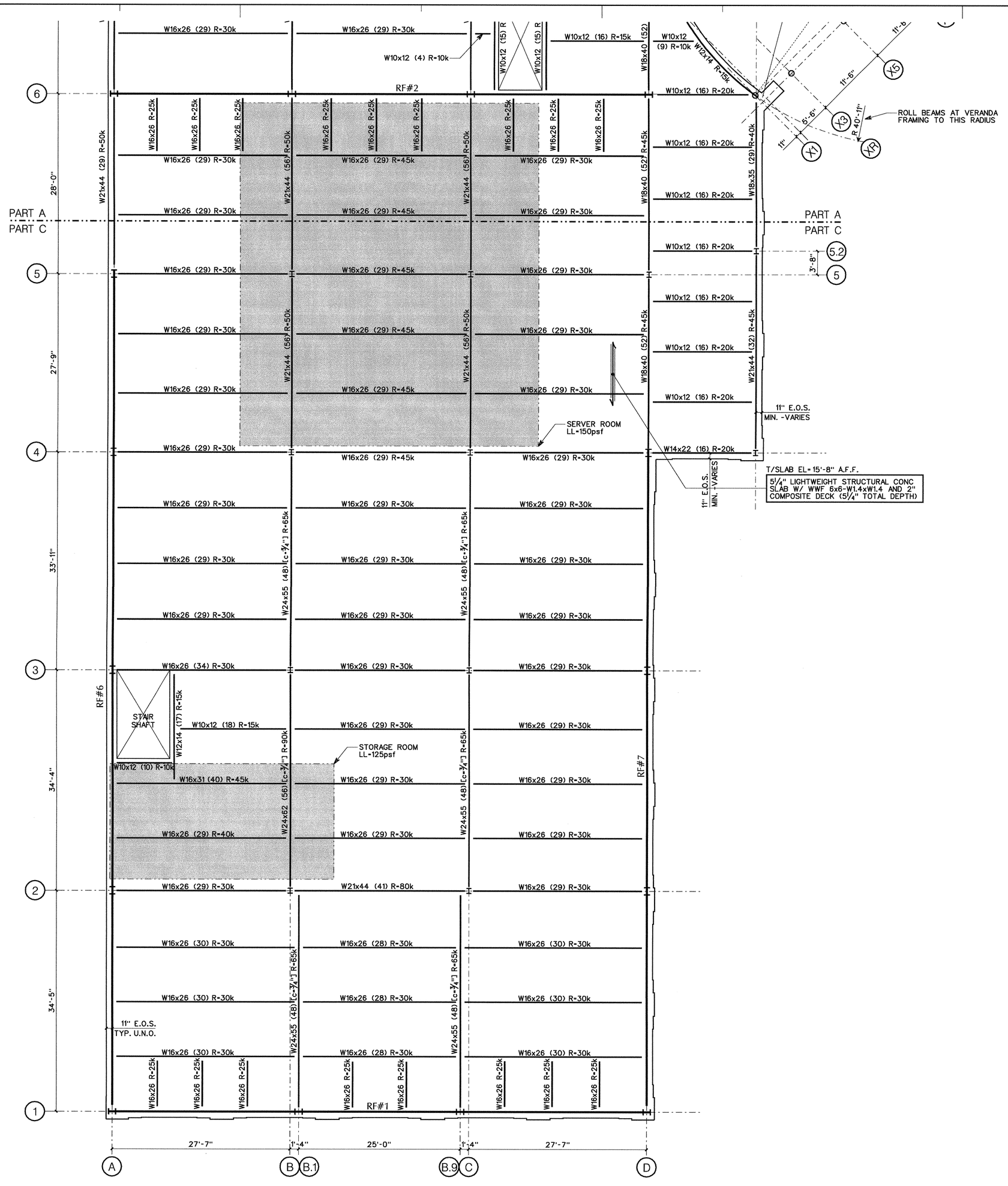
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REGISTRATION NO. 59622
PROJECT NO. 0506.03
CON.NO. C.A. #7029

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR FRAMING
PLAN - PART "B"

SHEET NUMBER:
S1.2B



SECOND FLOOR FRAMING PLAN - PART "C"

0' 4' 8' 16' 24'

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/06/07
75% CHECK SET	G.C.	WM/RR	11/8/07

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CoA NO. C.A. #1323
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

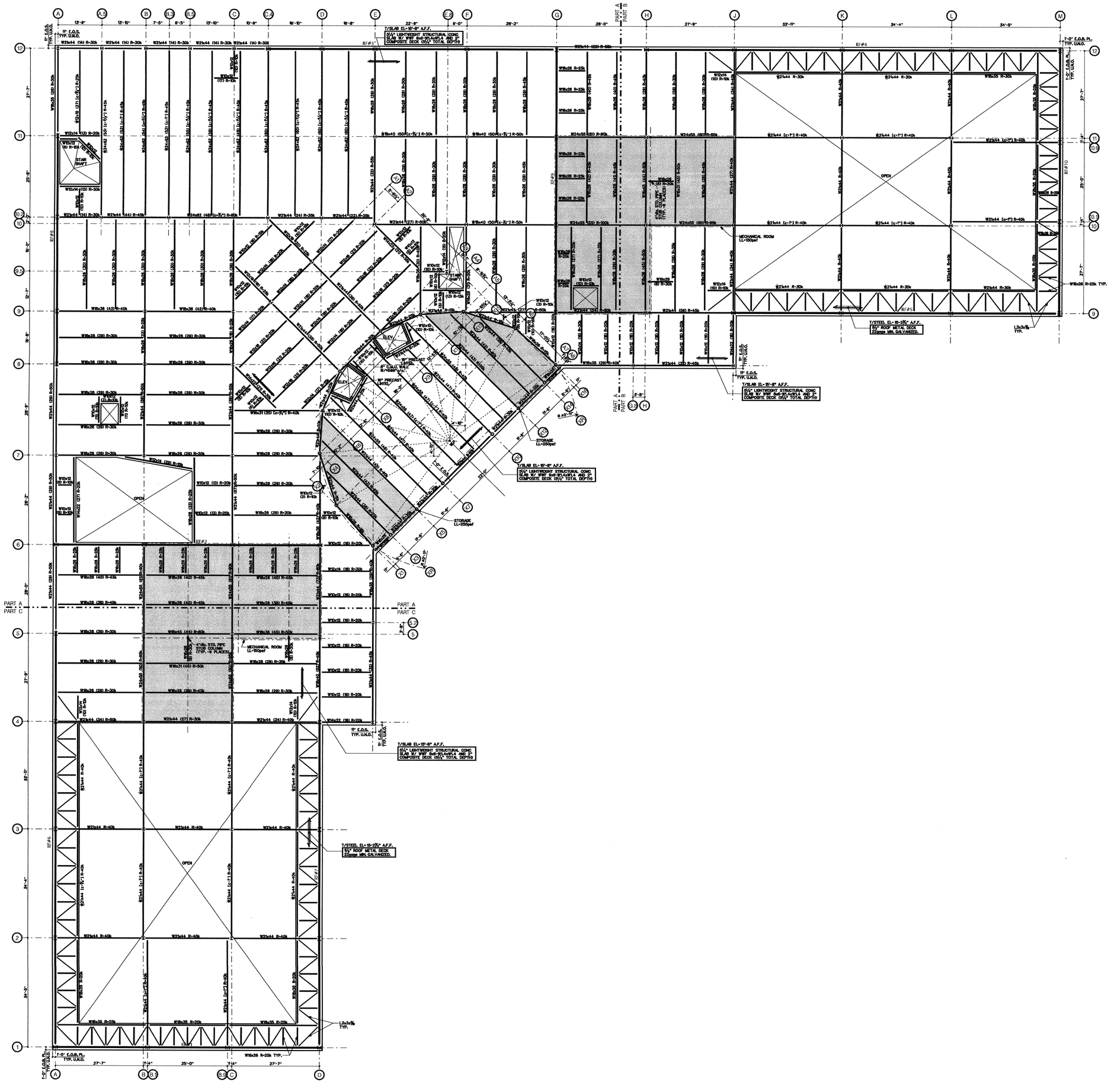
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SECOND FLOOR FRAMING PLAN - PART "C"

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S1.2C

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OVERALL THIRD FLOOR FRAMING PLAN

0' 4' 8' 16' 24'

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	09/06/07
75% CHECK SET	G.C.	WM/RR	11/5/07

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PROJECT NO. 106330.00
REGISTRATION NO. 00852
COA NO. C.A. #1123
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION NO. 58932

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

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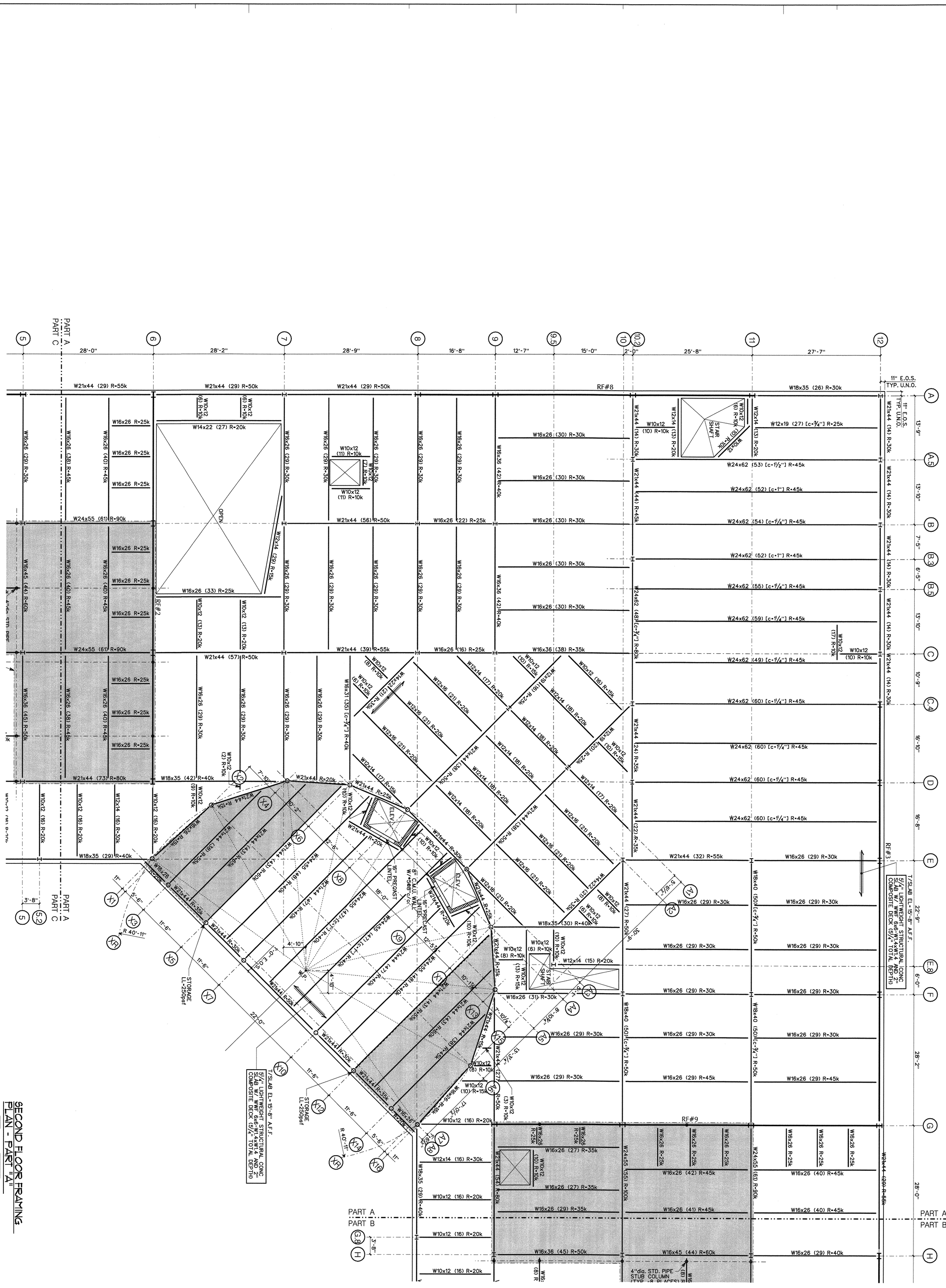
OVERALL THIRD FLOOR FRAMING PLAN

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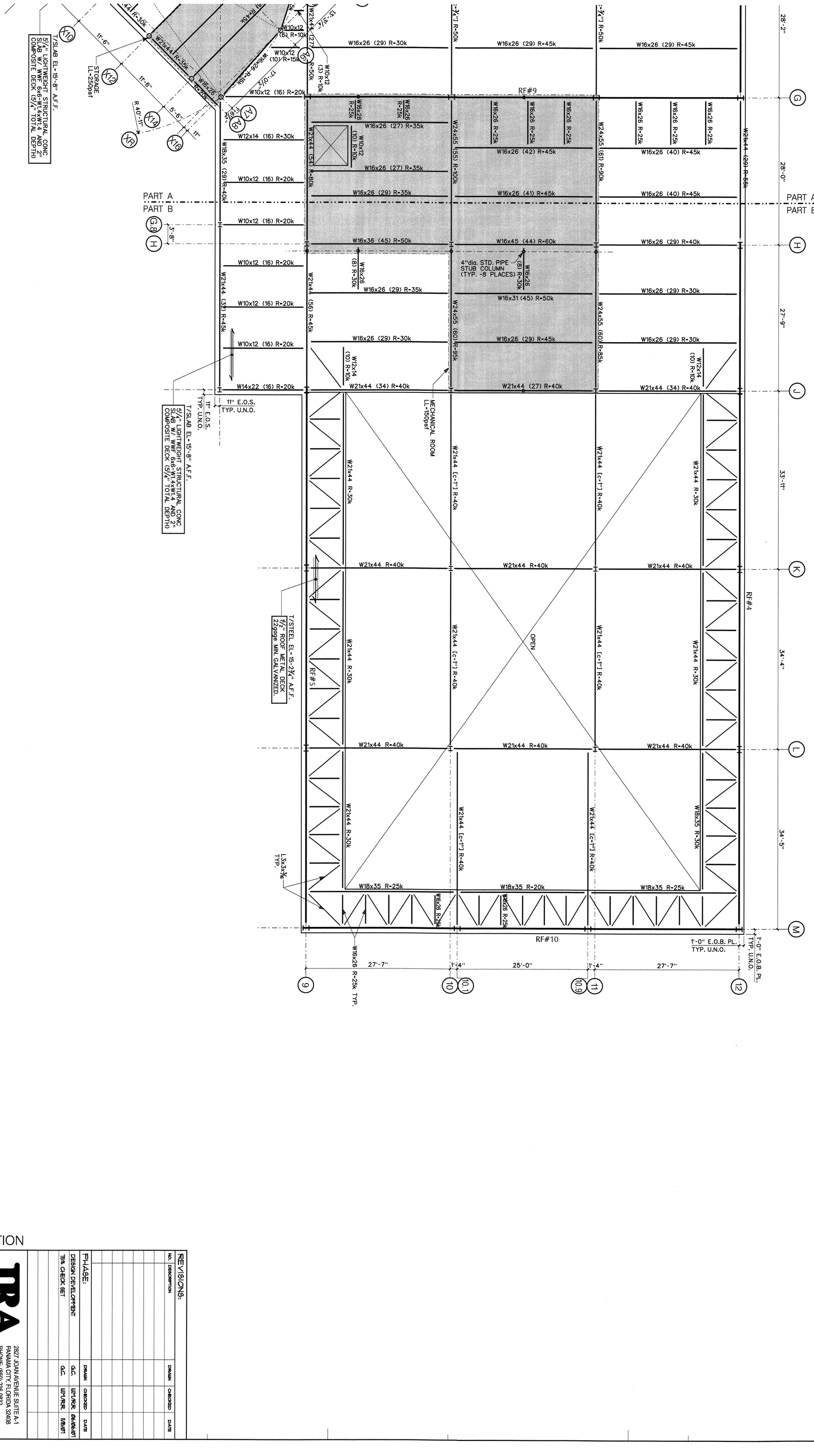
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14-NOV-2007 14:42
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PART A
PART C
5
6
7
8
9
9.5
10
10.2
11
12
28'-0"
28'-2"
28'-9"
16'-8"
12'-7"
15'-0"
2'-0"
25'-8"
27'-7"
11" E.O.S. TYP. U.N.O.
A
A.5
B
B.3
B.5
C
C.4
D
E
E.8
F
G
G.8
H
13'-9"
13'-10"
7'-5"
6'-5"
13'-10"
10'-9"
16'-10"
16'-8"
22'-9"
6'-0"
28'-2"
W21x44 (29) R=55k
W21x44 (29) R=50k
W21x44 (29) R=50k
RF#8
W18x35 (26) R=30k
W24x55 (61) R=90k
W21x44 (57) R=50k
W21x44 (39) R=55k
W16x26 (16) R=25k
W16x36 (38) R=35k
W21x44 (73) R=80k
W18x35 (42) R=40k
W18x35 (29) R=40k
W14x22 (27) R=20k
OPEN
W21x44 (56) R=50k
W16x26 (22) R=25k
W16x26 (33) R=25k
RF#2
W24x55 (61) R=90k
W24x62 (53) [c-1½"] R=45k
W24x62 (52) [c-1"] R=45k
W24x62 (54) [c-1¼"] R=45k
W24x62 (55) [c-1¼"] R=45k
W24x62 (59) [c-1¼"] R=45k
W24x62 (48) [c-¾"] R=80k
W24x62 (49) [c-1¼"] R=45k
W24x62 (60) [c-1¼"] R=45k
W21x44 (24) R=35k
W21x44 (22) R=35k
W18x35 (30) R=40k
W21x44 (27) R=50k
W16x26 (31) R=30k
W21x44 (32) R=55k
W16x26 (27) R=35k
W21x44 (54) R=80k
W16x26 (29) R=35k
W16x26 (41) R=45k
W16x26 (42) R=45k
W24x55 (55) R=100k
W24x44 (29) R=55k
W16x36 (45) R=50k
W16x45 (44) R=60k
W16x26 (29) R=40k
W12x14 (29) R=15k
W12x19 (27) [c-¾"] R=25k
W16x26 (30) R=30k
W16x36 (42) R=40k
W16x26 (29) R=30k
W16x26 (40) R=45k
W16x26 (38) R=45k
W16x45 (44) R=60k
W16x36 (45) R=50k
W16x31 (35) [c-¾"] R=40k
W16x26 (22) R=25k
W16x26 (16) R=25k
W16x36 (38) R=35k
W16x26 (25) R=15k
W16x26 (43) R=50k
W16x26 (48) R=40k
W16x26 (47) R=40k
W24x55 (47) [c-1¼"] R=40k
W24x55 (48) R=40k
W12x16 (21) R=20k
W12x14 (17) R=20k
W12x14 (18) R=20k
W12x14 (15) R=20k
W12x16 (21) R=25k
W14x22 (21) R=25k
W12x19 (16) R=25k
W12x19 (20) R=25k
W12x14 (17) R=15k
W12x14 (16) R=30k
W12x16 (16) R=20k
W12x14 (16) R=20k
W10x12 (16) R=20k
W10x12 (6) R-10k
W10x12 (11) R-10k
W10x12 (13) R-20k
W10x12 (2) R-10k
W10x12 (9) R-10k
W10x12 (10) R-10k
W10x12 (10) R-15k
W10x12 (8) R-10k
W10x12 (8) R-15k
W10x12 (6) R-15k
W10x12 (10) R-20k
W10x12 (3) R-10k
W10x12 (17) R-10k
W10x12 (16) R-10k
W10x12 (13) R-15k
W10x12 (10) R-10k
W10x12 (6) R-10k
W10x12 (8) R-10k
W10x12 (9) R-10k
W10x12 (10) R-15k
W10x12 (3) R-10k
W10x12 (16) R-20k
W10x12 (16) R-20k
W10x12 (16) R-20

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14-NOV-2007 14:42
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THIRD FLOOR FRAMING
PLAN - PART "B"

0' 4' 8' 16' 24'

75% CHECK SET –NOT FOR CONSTRUCTION

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WH/RR	09/09/07
75% CHECK SET	G.C.	WH/RR	11/9/07

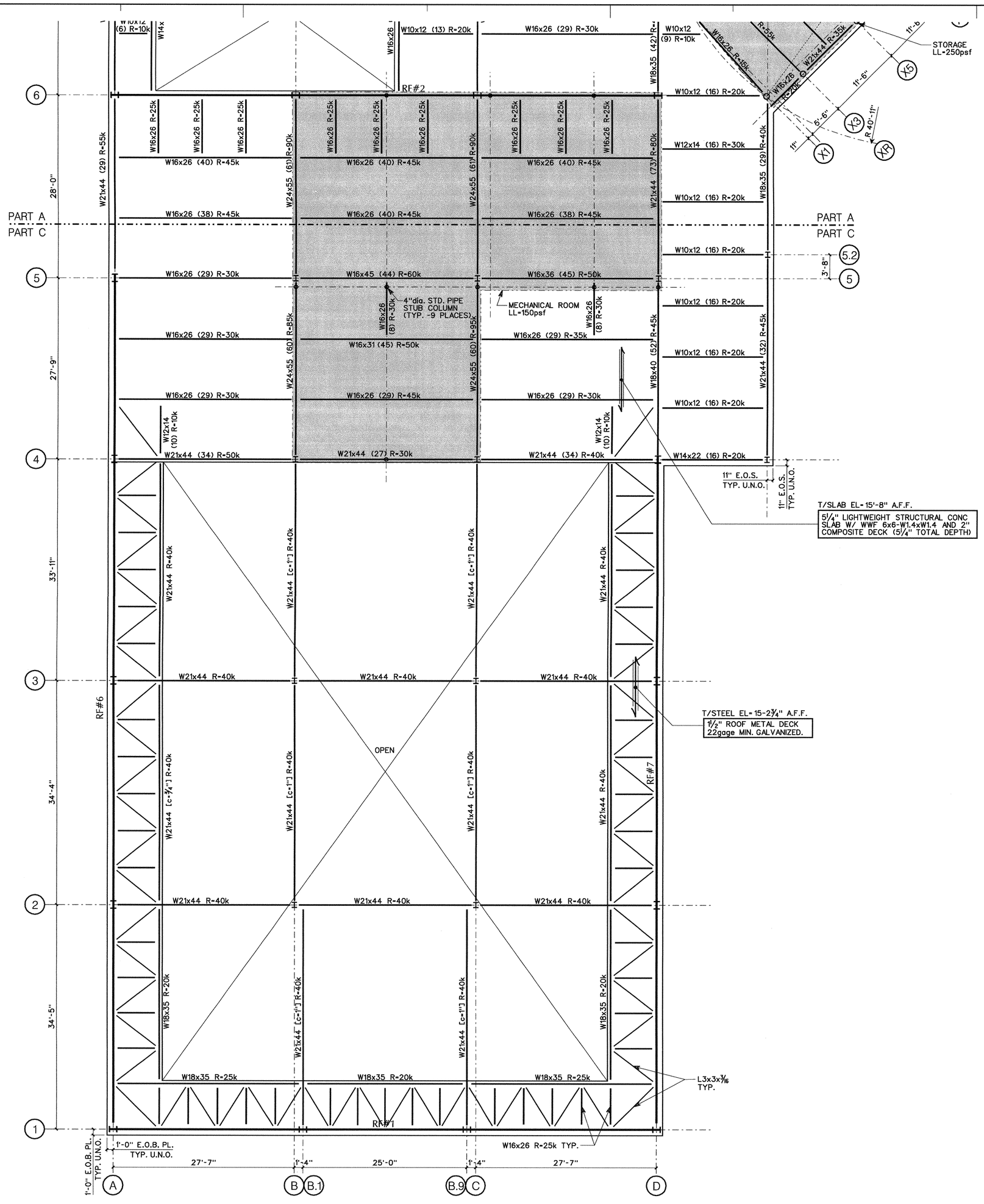
JRA Architects, Inc. Commission Number: 05311
2827 JOAN AVENUE SUITE A-1
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584

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F 615 320 0387
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 59622
REGISTERED NO. 28852 CA.#3320

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR FRAMING
PLAN - PART "B"

SHEET NUMBER:
S1.3B



THIRD FLOOR FRAMING PLAN - PART "C"

0' 4' 8' 16' 24'

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR.	06/06/07
75% CHECK SET	G.C.	WM/RR.	11/6/07

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PHONE: (850) 236-9832
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Commission Number: 05311

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ROSE ANNA RODRIGUEZ P.E. FLORIDA P.E. REGISTRATION No. 59622

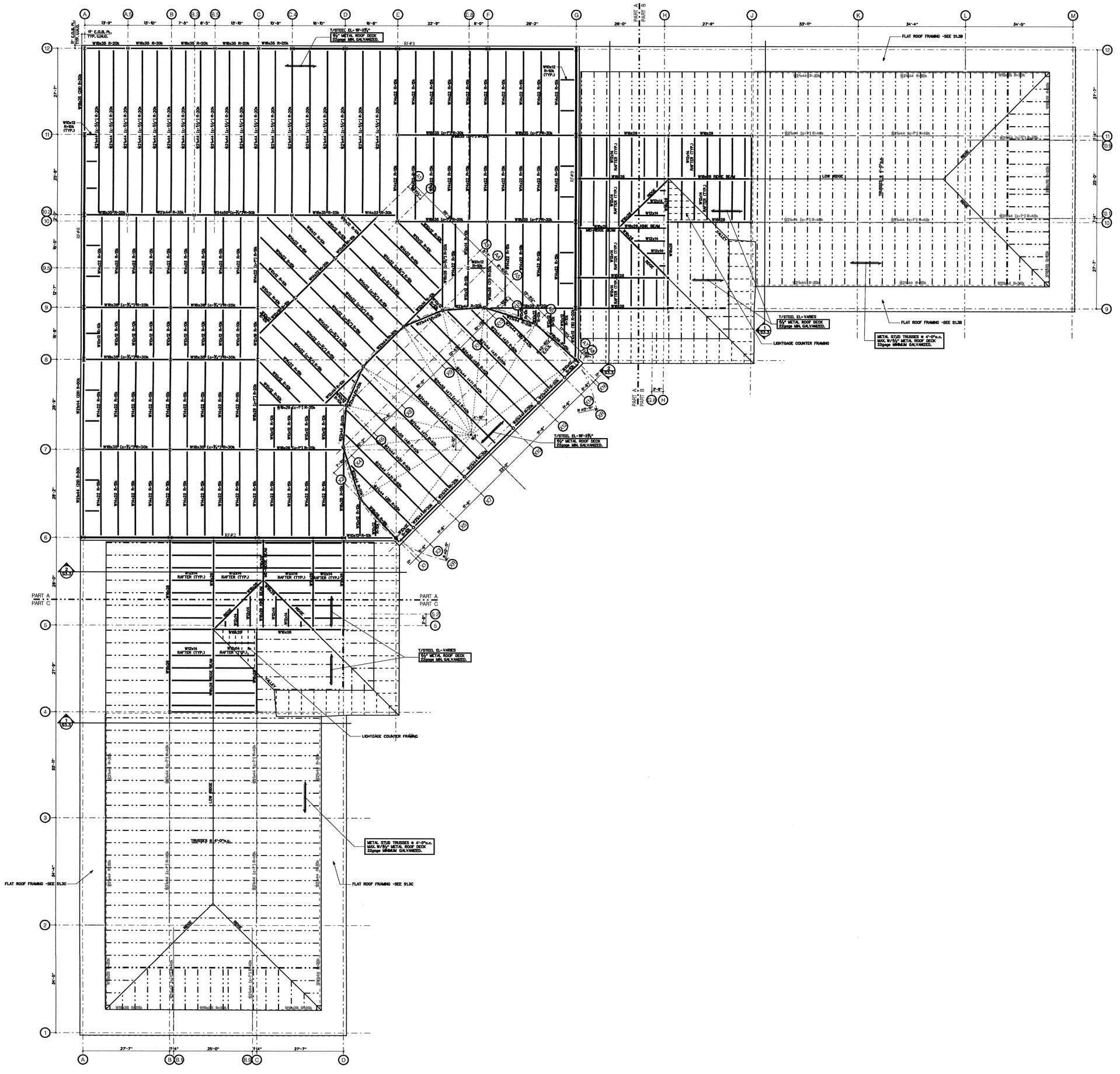
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR FRAMING PLAN - PART "C"

SHEET NUMBER:
S1.3C

75% CHECK SET -NOT FOR CONSTRUCTION

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OVERALL ROOF FRAMING PLAN

0' 4' 8' 16' 24'

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR.	06/06/07
75% CHECK SET	G.C.	WM/RR.	11/5/07

JRA Architects, Inc.
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Commission Number: 05311

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F 615 320 0387
PROJECT NO. 196305.00
REGISTRATION NO. 109832
COA NO. C.A. #3329
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 59623

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

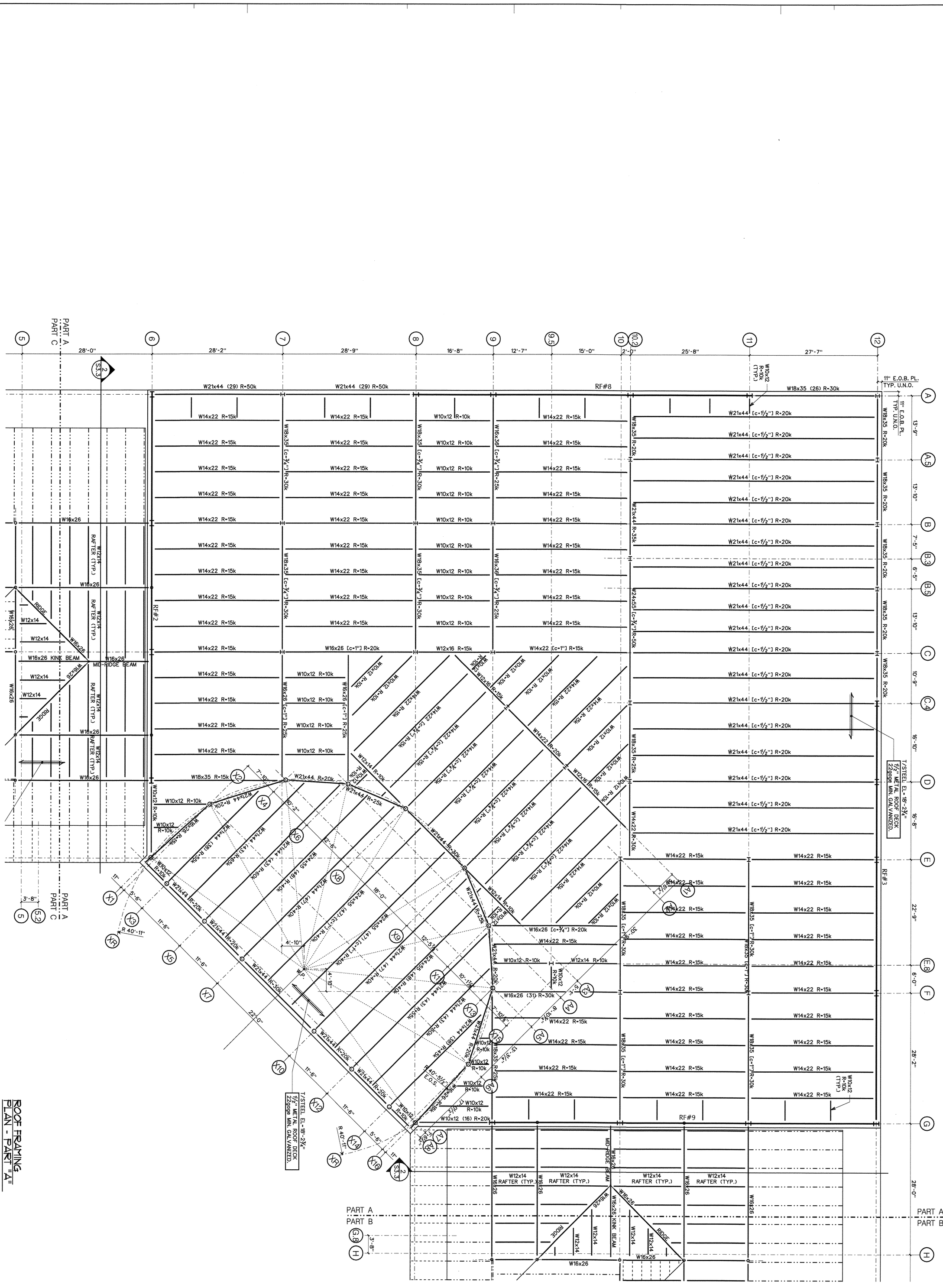
PANAMA CITY, FLORIDA

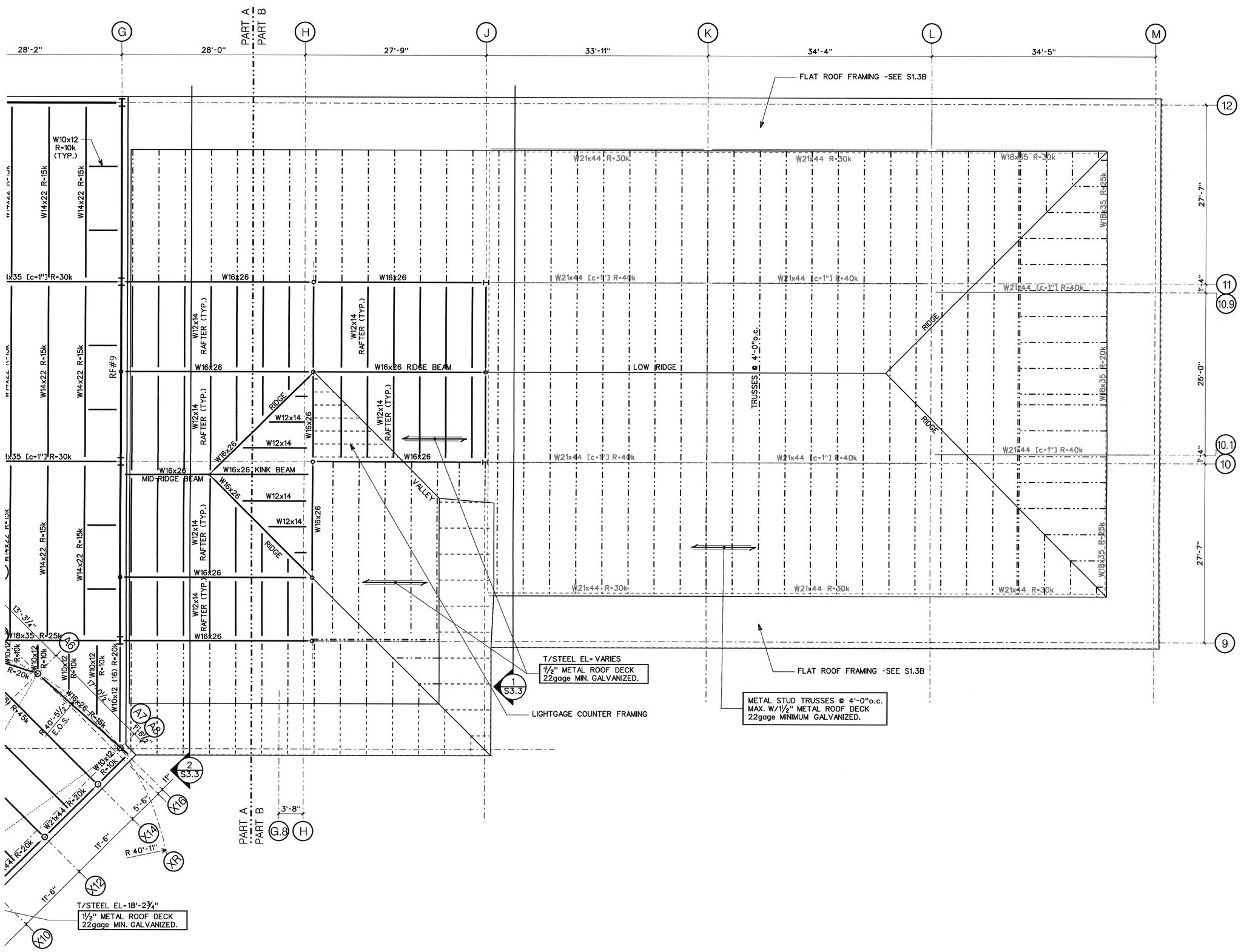
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OVERALL ROOF FRAMING PLAN

SHEET NUMBER:
S1.4

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14-NOV-2007 14:42
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PART A
PART C
5
6
7
8
9
9.5
10
10.2
11
12
28'-0"
28'-2"
28'-9"
16'-8"
12'-7"
15'-0"
2'-0"
25'-8"
27'-7"
S3.3
RF#8
RF#2
RF#3
RF#9
W21x44 (29) R=50k
W18x35 R=20k
W21x44 R=35k
W24x55 [c-¾"] R=50k
W18x35 R=25k
W14x22 R=30k
W21x44 [c-1½"] R=20k
W14x22 R=15k
W10x12 R=10k
W16x26 [c-1"] R=20k
W12x16 R=15k
W16x26 KINK BEAM
MID-RIDGE BEAM
RIDGE
RAFTER (TYP.)
W12x14
W16x26
W18x35 [c-¾"] R=30k
W16x36 [c-¾"] R=25k
W18x35 [c-1"] R=30k
W16x26 [c-¾"] R=20k
W16x26 (31) R=30k
W12x14 R=10k
W10x12 R-10k
W14x22 R-15k
W14x22 R-20k
W12x14 R-10k
W21x44 R-20k
W21x44 R-25k
W21x44 R-30k
W18x35 R-15k
W10x12 R-10k
W21x44 (38) R-55k
W24x55 (47) [c-1"] R-40k
W24x55 (48) R-40k
W21x44 (43) R-60k
W21x44 (47) R-40k
W14x22 [c-1"] R-15k
W14x22 [c-¾"] R-15k
W14x22 R-15k
W10x12 R-10k
W10x12 (16) R-20k
W18x35 R-15k
W21x44 R-20k
W10x12 R-10k
W10x12 R-10k
W16x26
W12x14 RAFTER (TYP.)
W16x26 KINK BEAM
MID-RIDGE BEAM
RIDGE
W16x26
W12x14
W12x14
W12x14
W12x14
W16x26
W16x26
W16x26



ROOF FRAMING
PLAN - PART "B"

0' 4' 8' 16' 24'

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/06/07
75% CHECK SET	G.C.	WM/RR	11/15/07

JRA Architects, Inc.
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Commission Number: 05311

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ROSE ANNA RODRIGUEZ, P.E.
FLORIDA P.E. REGISTRATION No. 59622

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

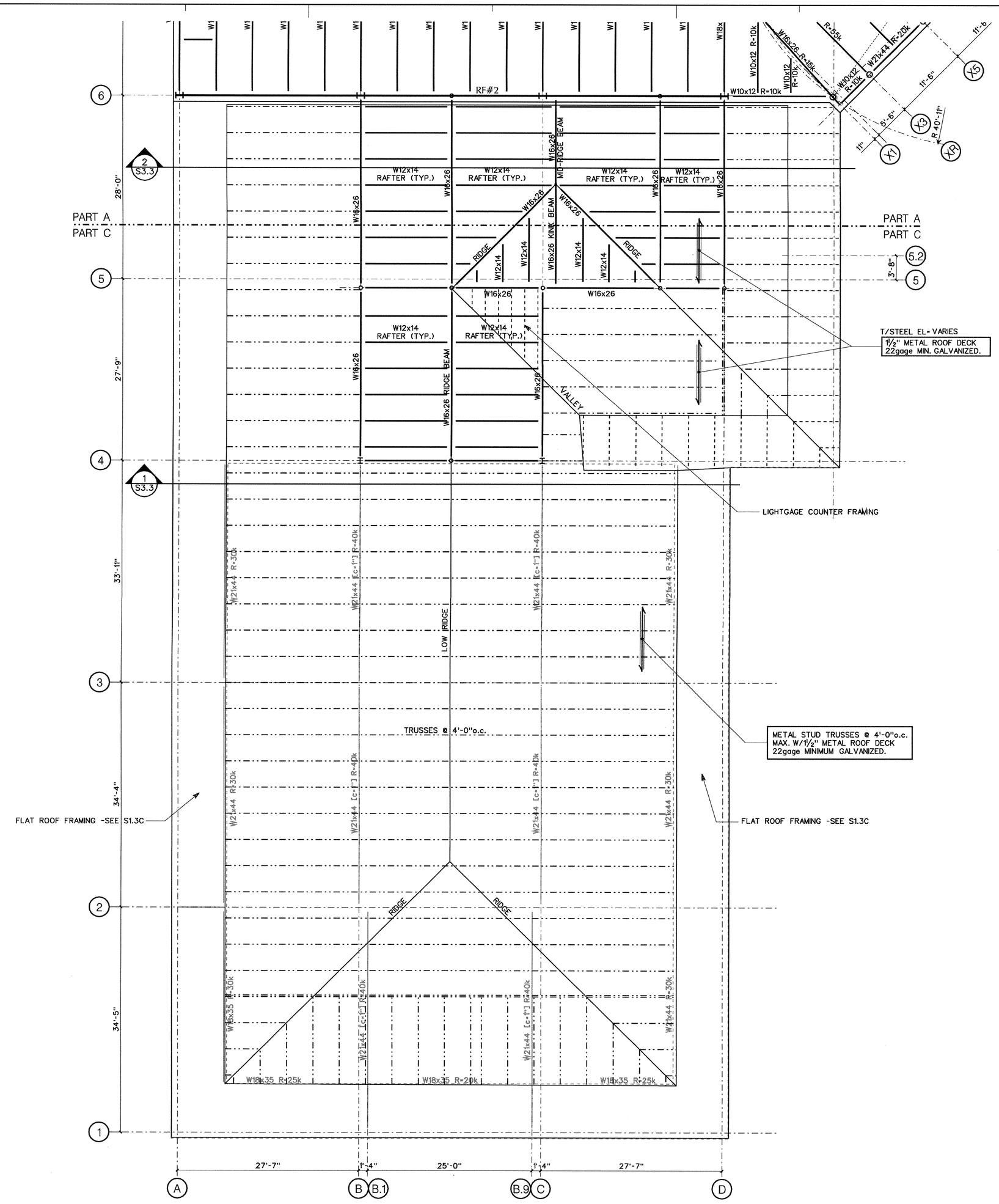
PANAMA CITY, FLORIDA

SHEET TITLE:
ROOF FRAMING
PLAN - PART "B"

SHEET NUMBER:
S1.4B

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ROOF FRAMING
PLAN - PART "C"

0' 4' 8' 16' 24'

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR.	06/06/07
75% CHECK SET	G.C.	WM/RR.	11/5/07

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ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 58022

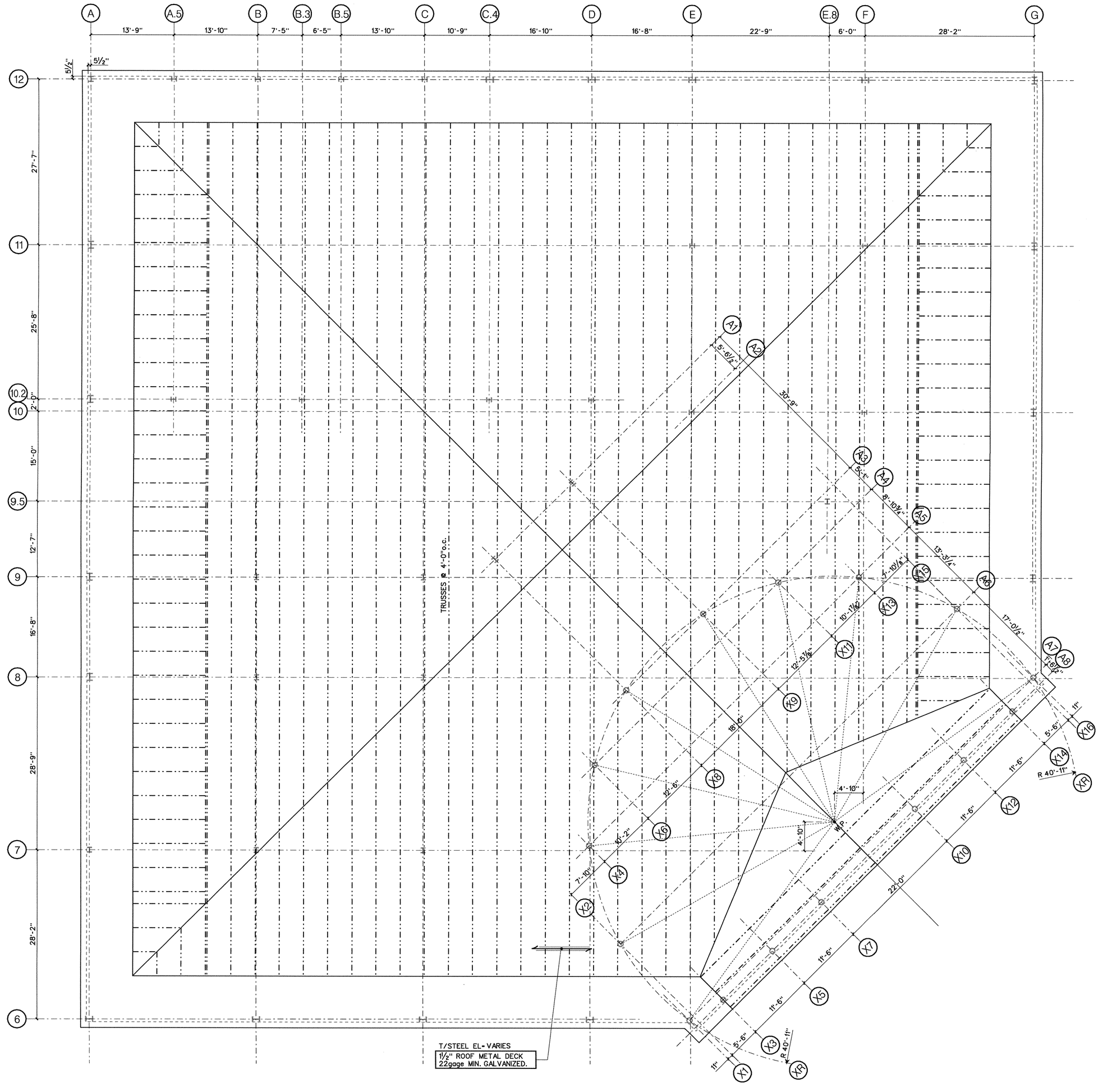
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
ROOF FRAMING
PLAN - PART "C"

SHEET NUMBER:
S1.4C

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HIGH ROOF FRAMING PLAN

0' 4' 8' 16' 24'

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REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/06/07
75% CHECK SET	G.C.	WM/RR	11/15/07

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Commission Number: 05311

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PROJECT NO. 10630500
REGISTRATION NO. 69602
DOA NO. C.A. 31321
ROSE ANNA RODRIGUEZ P.E.
FLORIDA P.E. REGISTRATION NO. 58632

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

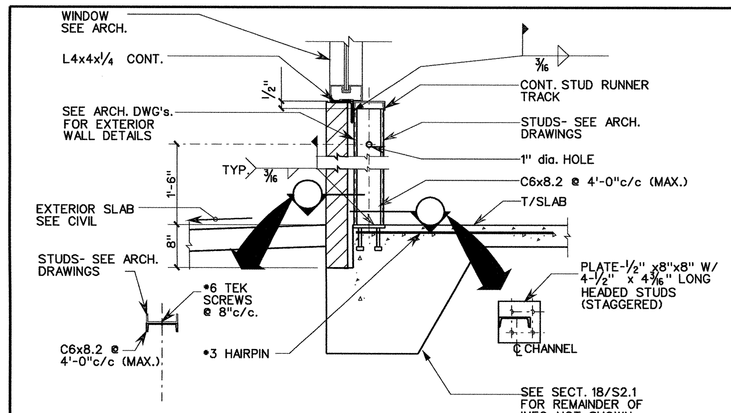
PANAMA CITY, FLORIDA

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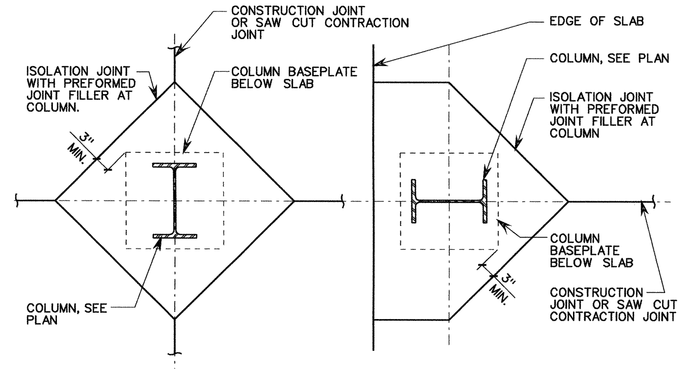
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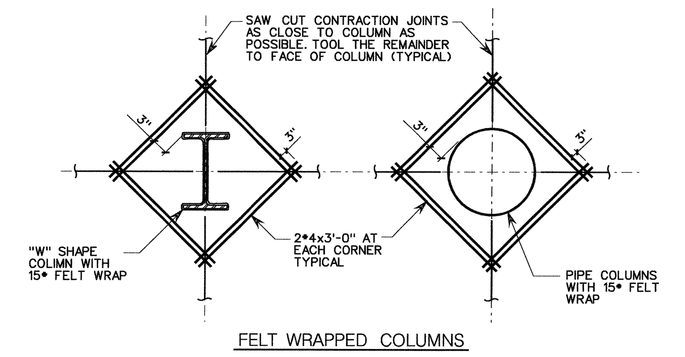
S1.5



19 WINDOW SUPPORT DETAIL @ CONT. WINDOWS WIDER THAN 8'-0"

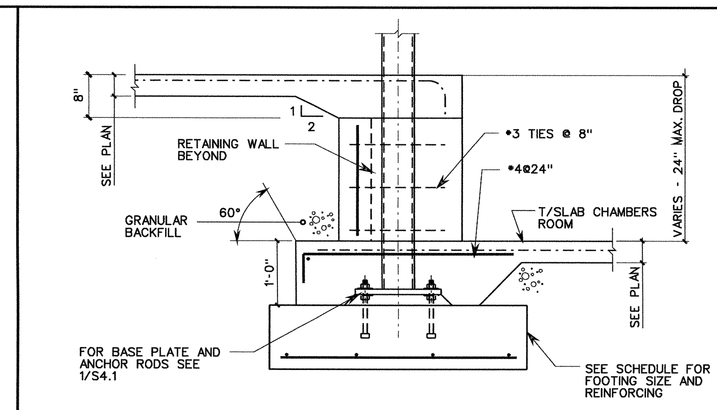


ISOLATION JOINTS AT COLUMNS

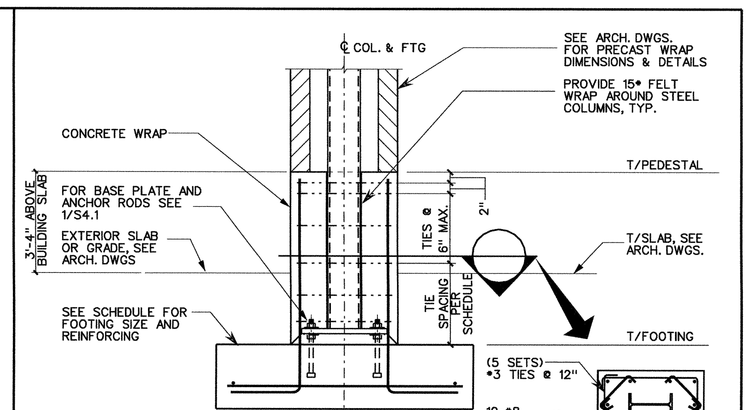


FELT WRAPPED COLUMNS

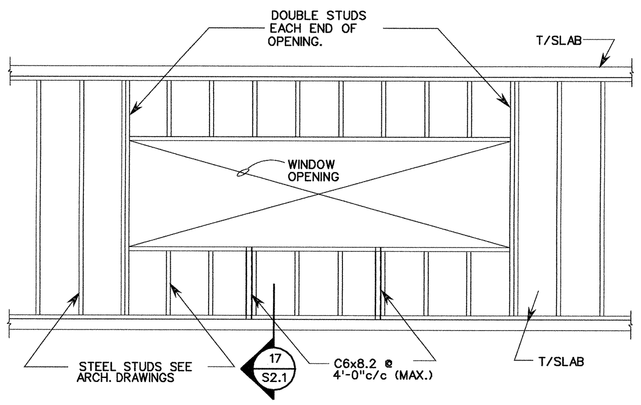
14 TYPICAL SLAB ON GRADE JOINT DETAILS AT COLUMNS (CONTRACTOR'S OPTION)



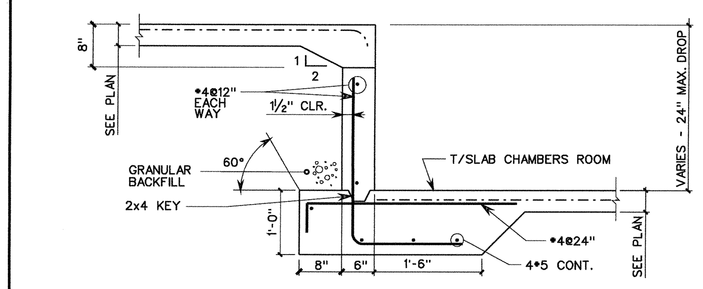
10 INTERIOR SECTION AT CHAMBERS ROOM



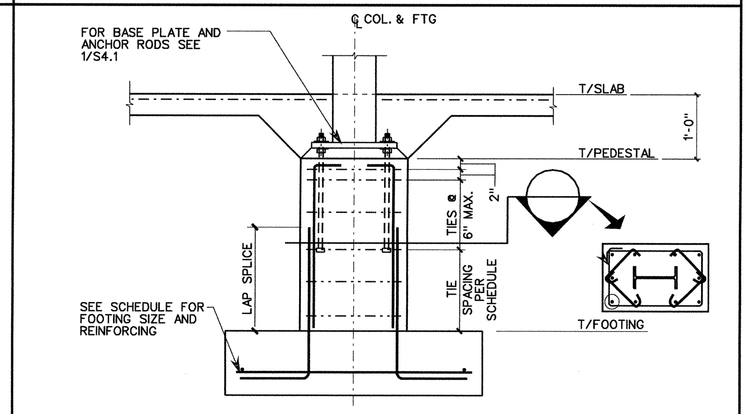
5 SECTION AT EXTERIOR COLUMN WITH PEDESTAL



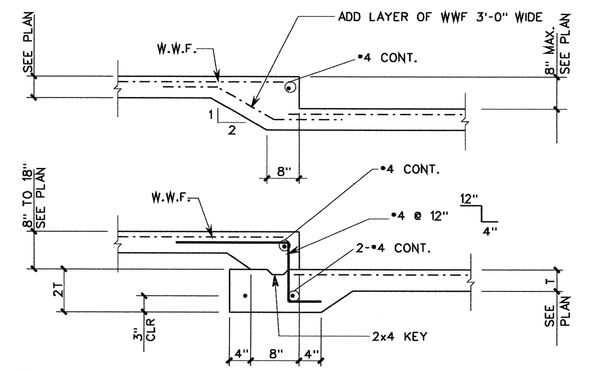
18 TYPICAL WINDOW SUPPORT ELEVATION (AT WINDOWS 8'-0" AND WIDER)



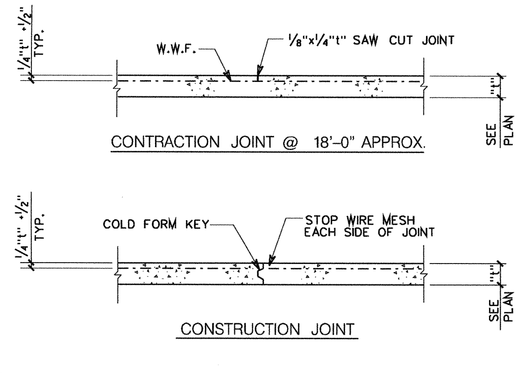
9 INTERIOR SECTION AT CHAMBERS ROOM



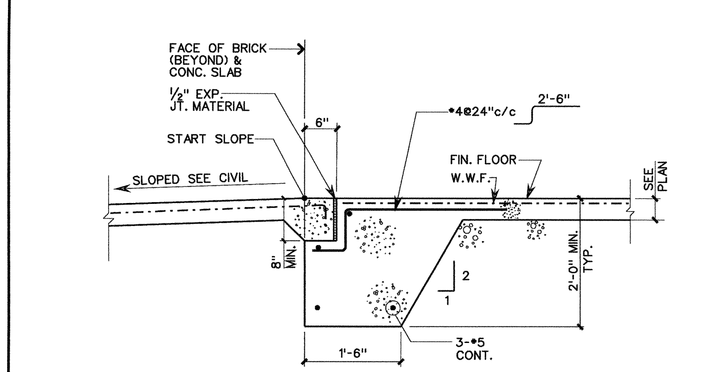
4 TYPICAL INTERIOR COLUMN FOOTING WITH PEDESTAL AT FRAMES



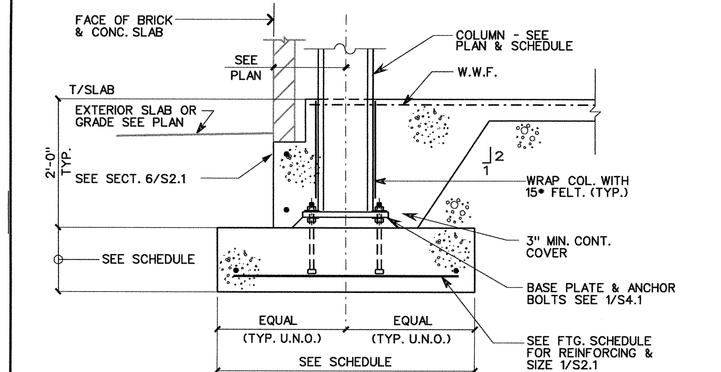
17 DEPRESSED SLAB DETAILS (WHERE REQ'D. SEE ARCH. DRAWINGS)



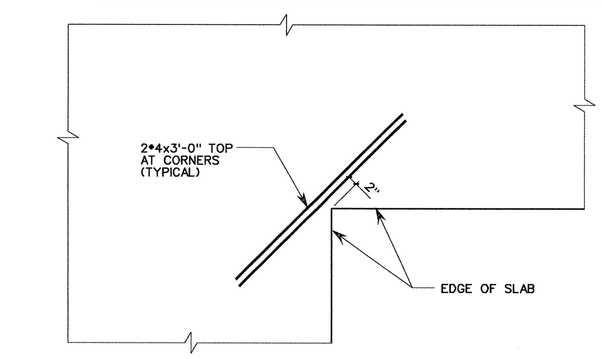
13 TYPICAL SLAB DETAIL



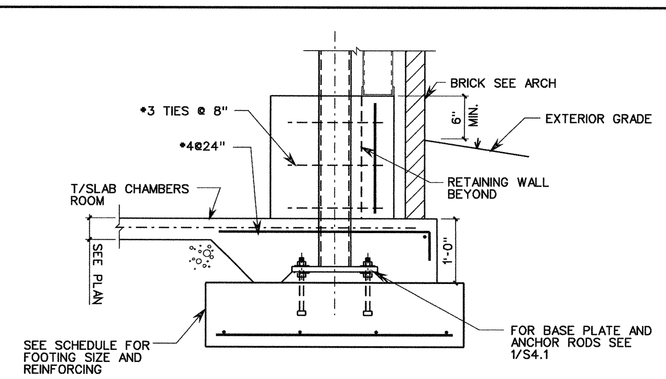
8 SECTION AT EXTERIOR DOOR



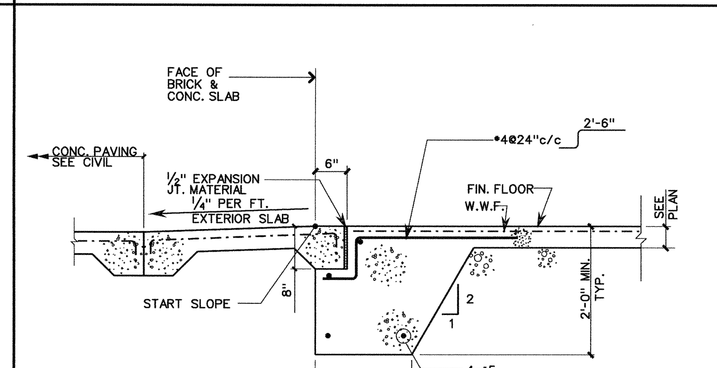
3 TYP. SECTION @ EXTERIOR COLUMNS



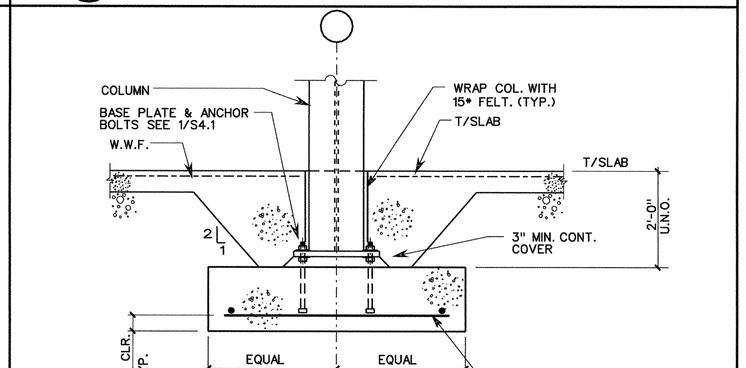
16 TYPICAL REINFORCING AT RE-ENTRANT CORNERS



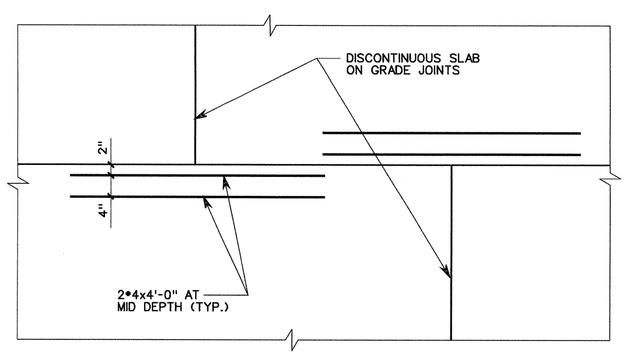
12 EXTERIOR SECTION AT CHAMBERS ROOM COLUMN



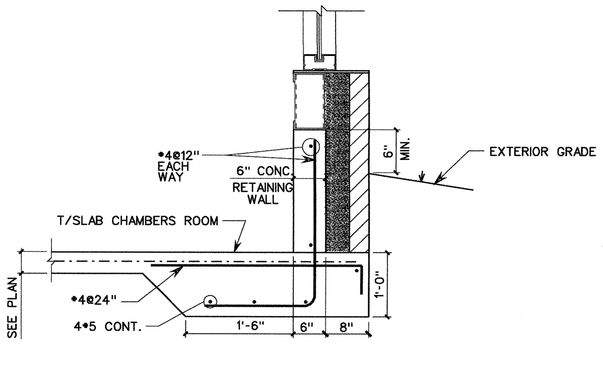
7 SECTION AT EXTERIOR WALKWAY



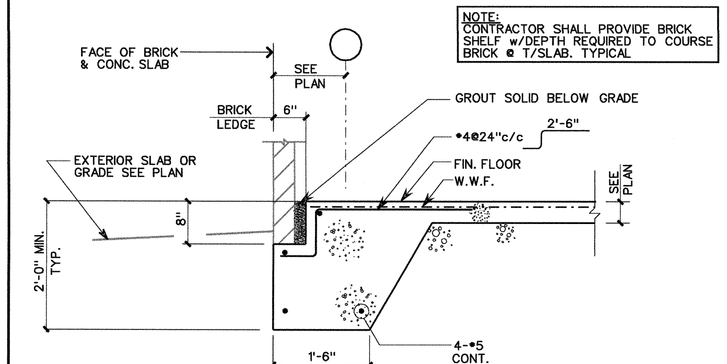
2 TYP. SECTION @ INTERIOR COLUMNS



15 TYP. REINFORCEMENT AT DISCONTINUOUS JOINTS



11 EXTERIOR SECTION AT CHAMBERS ROOM



6 TYP. TURNDOWN SECTION @ BRICK LEDGE

FOOTING SCHEDULE

MARK	SIZE	REINF. E.W. (U.N.O.)	PEDESTAL SIZE	PEDESTAL REINF.	PEDESTAL TIES	REMARKS
F5.0	5'-0"x5'-0"x1'-6"	7#5				
F6.0	6'-0"x6'-0"x1'-6"	8#5				
F8.0	8'-0"x8'-0"x1'-6"	10#5				
F8.5	8'-6"x8'-6"x1'-6"	8#6				
F9.0	9'-0"x9'-0"x1'-6"	9#6				
F9.5	9'-6"x9'-6"x1'-6"	10#6				
F10.0	10'-0"x10'-0"x2'-0"	12#6				
F11.0	11'-0"x11'-0"x2'-0"	13#6				
F12.0	12'-0"x12'-0"x2'-4"	12#7				
F13.0	13'-0"x13'-0"x2'-8"	12#7				
F14.0	14'-0"x14'-0"x2'-8"	14#7				
F15.0	15'-0"x15'-0"x2'-8"	15#7				
F16.0	16'-0"x16'-0"x2'-8"	16#7				

1 COLUMN FOOTING SCHEDULE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WH/R.R.	06/06/07
75% CHECK SET	G.C.	WH/R.R.	11/8/07

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FOUNDATION SECTIONS AND DETAILS

SHEET NUMBER:
S2.1

75% CHECK SET -NOT FOR CONSTRUCTION

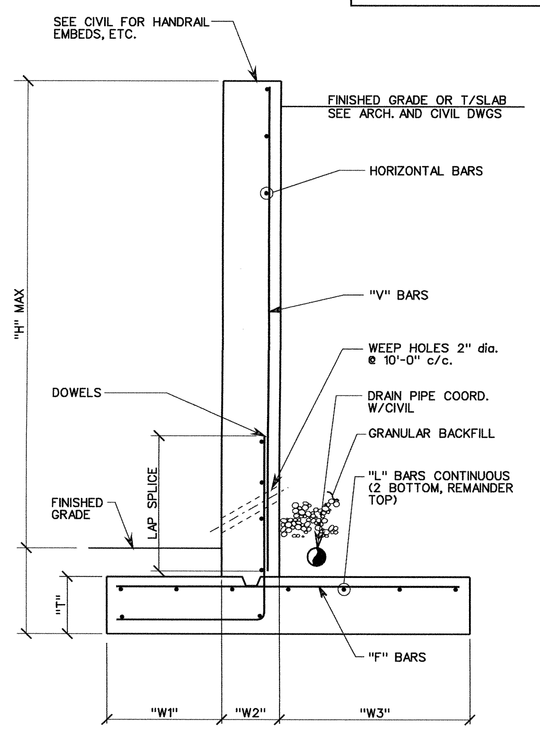
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WALL REINFORCING SCHEDULE

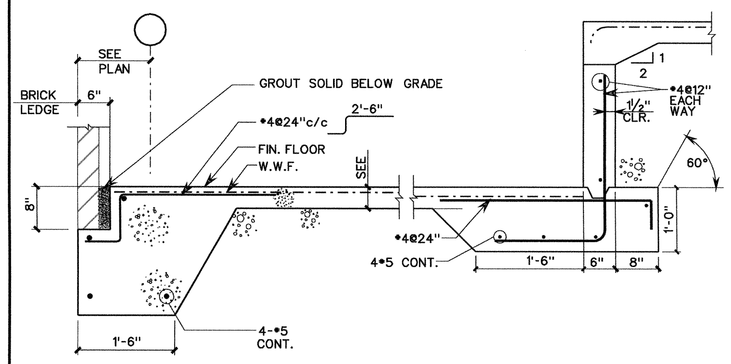
HEIGHT	BASE				REINFORCING BARS				
H	W1	W2	W3	T	DOWELS	V	HORIZ.	F	L
3'-0"	8"	8"	12"	12"	*4@12"	*4@12"	*4@12"	*4@24"	5-*4
5'-6"	1'-6"	8"	1'-10"	15"	*4@12"	*4@12"	*4@12"	*4@24"	7-*4

ALLOWABLE SURCHARGE: 100 PSF

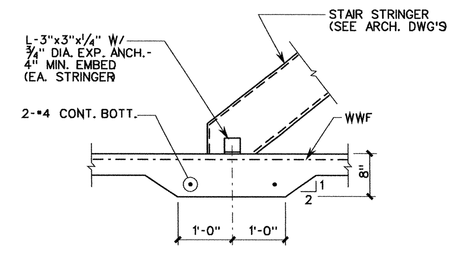
NOTE:
FOR LOCATIONS AND DIMENSIONS OF WALLS, SEE CIVIL DRAWINGS.



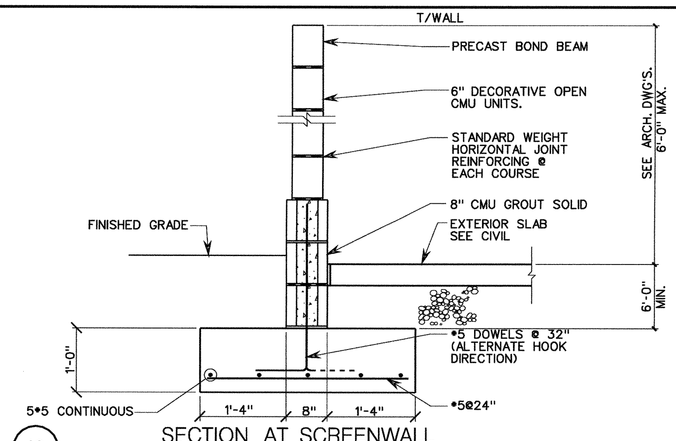
16 TYPICAL SITE RETAINING WALL DETAIL



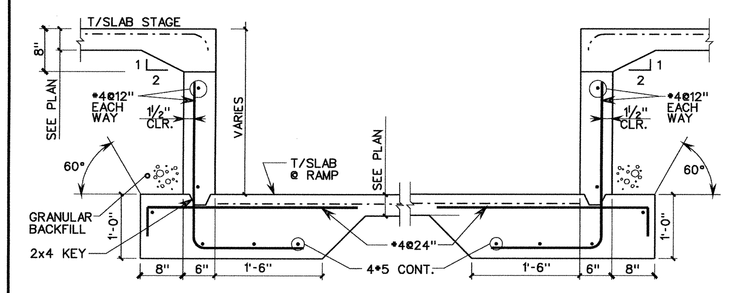
9 SECTION AT EXTERIOR RAMP



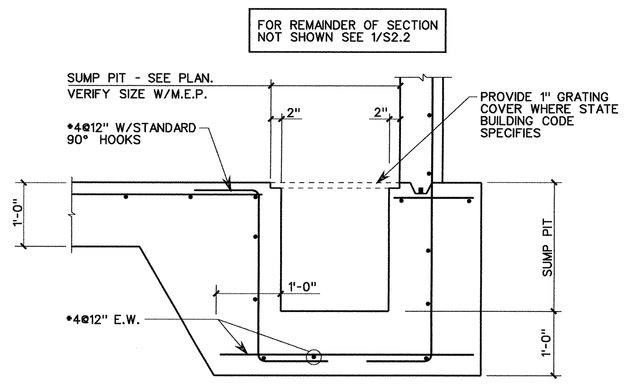
4 THICKENED SLAB @ STAIR



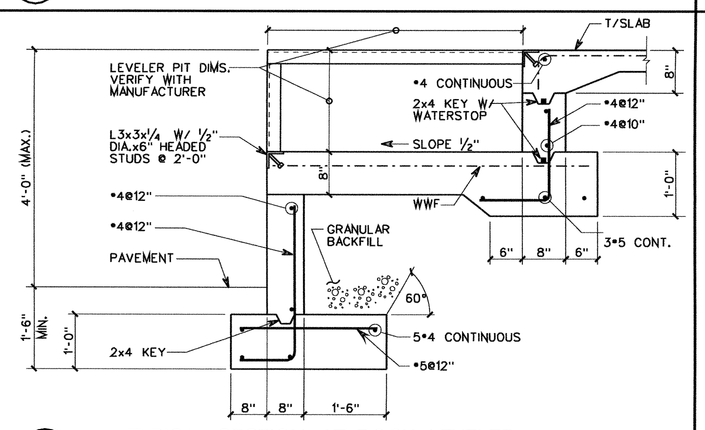
13 SECTION AT SCREENWALL



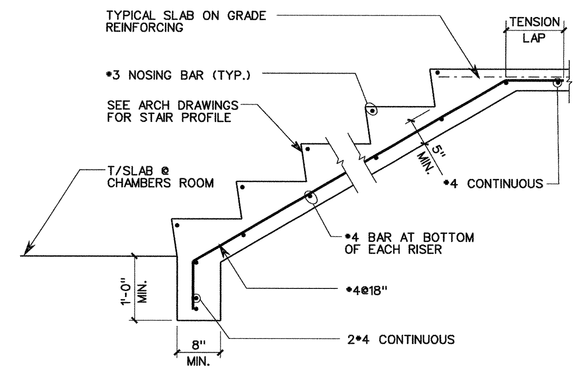
8 SECTION AT STAGE RAMP



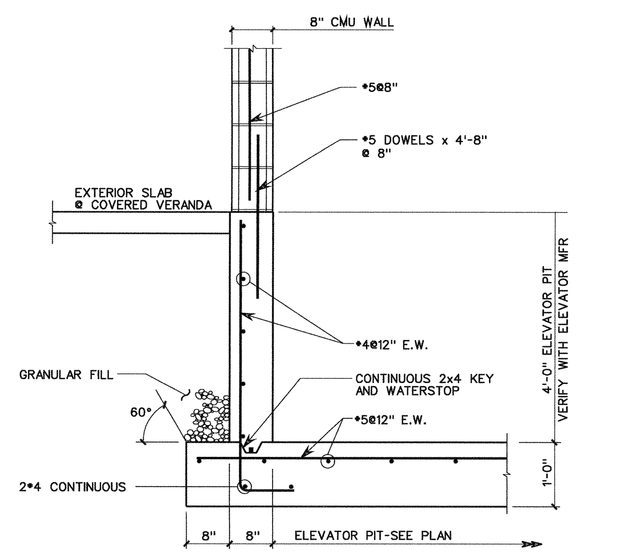
3 TYPICAL SUMP PIT



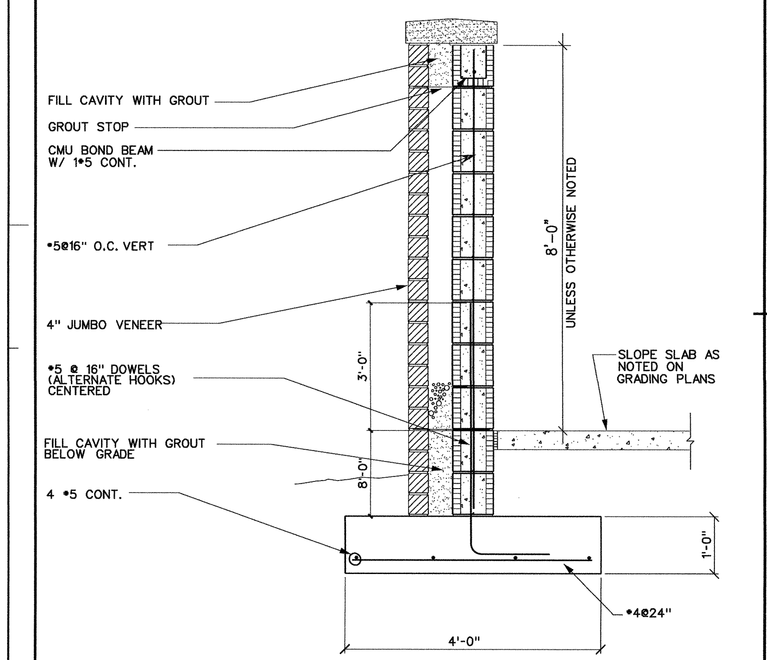
12 TYPICAL SECTION AT DOCK LEVELER



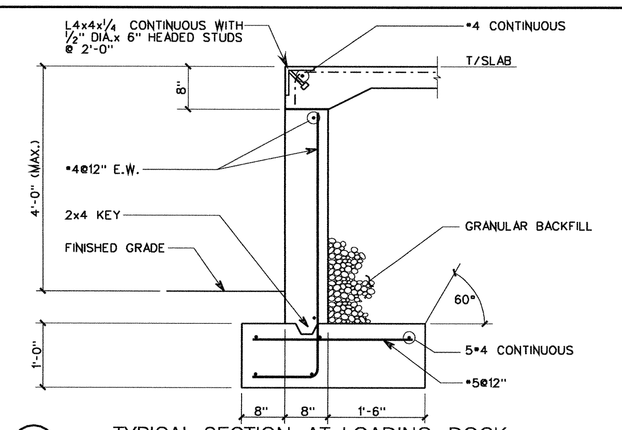
7 SECTION AT STAGE STAIRS



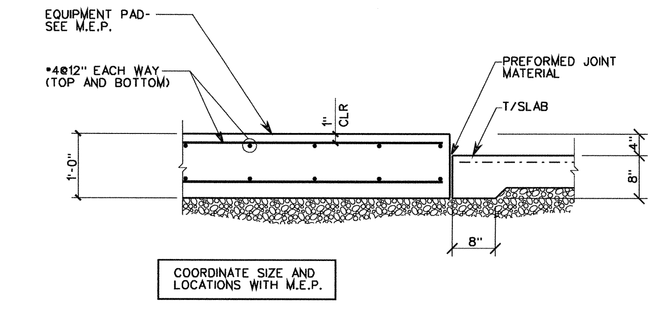
2 TYPICAL ELEVATOR PIT AT WALL



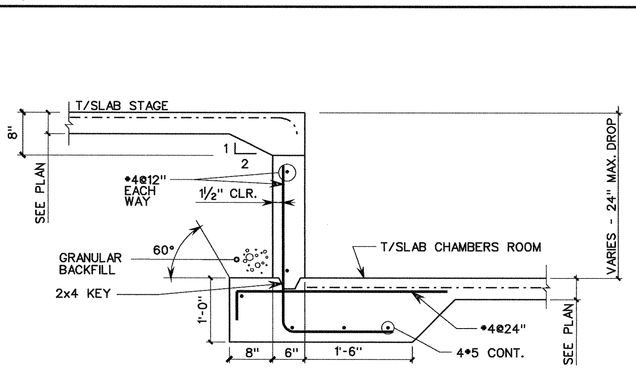
15 SECTION AT EXTERIOR SCREEN WALL
SEE CIVIL OR ARCHITECTURAL DRAWINGS FOR LOCATIONS



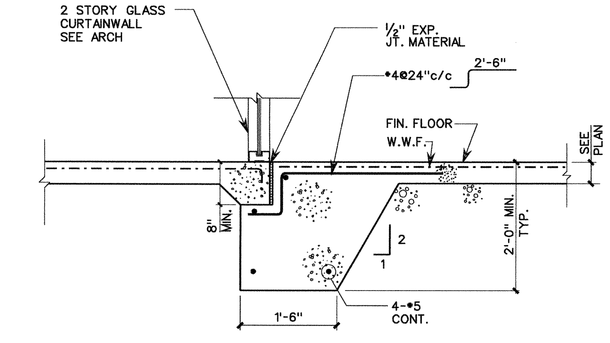
11 TYPICAL SECTION AT LOADING DOCK



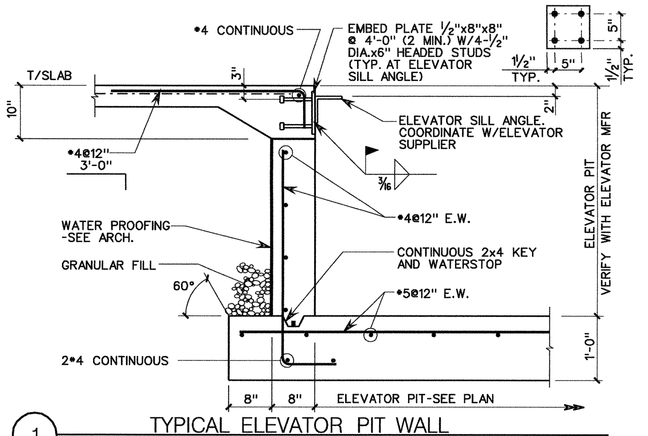
10 TYPICAL EQUIPMENT PAD ON GRADE SECTION



6 SECTION AT STAGE



5 SLAB ON GRADE SUPPORT FOR CURTAINWALL



1 TYPICAL ELEVATOR PIT WALL

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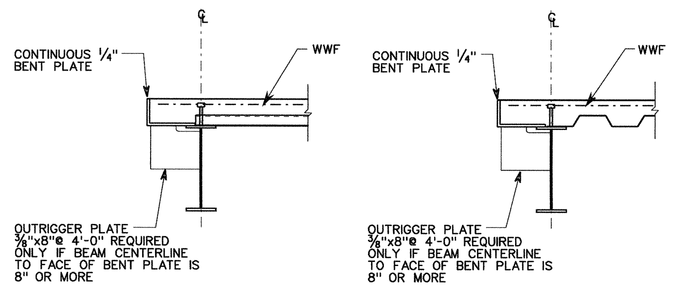
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FOUNDATION SECTIONS AND DETAILS

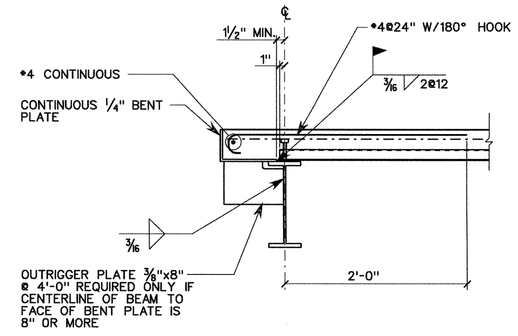
SHEET NUMBER:
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75% CHECK SET -NOT FOR CONSTRUCTION

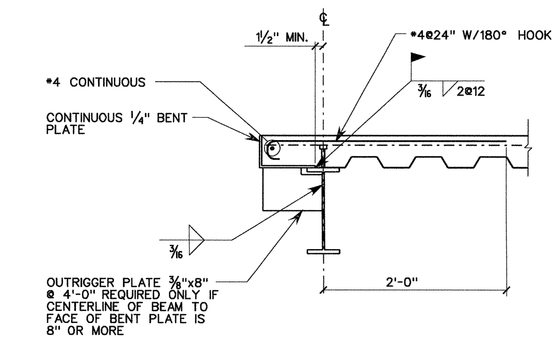
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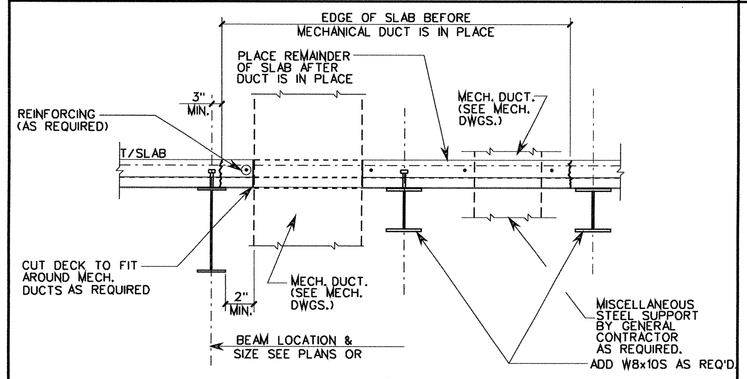
11 TYPICAL SECTION AT SLAB OPENING



8 TYPICAL EXTERIOR BEAM DETAIL



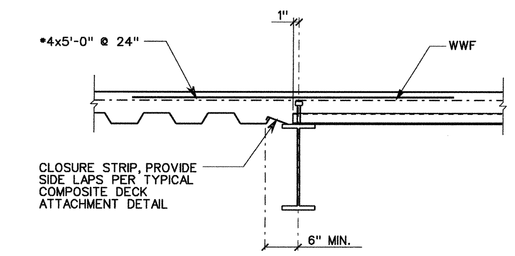
3 TYPICAL EXTERIOR GIRDER DETAIL



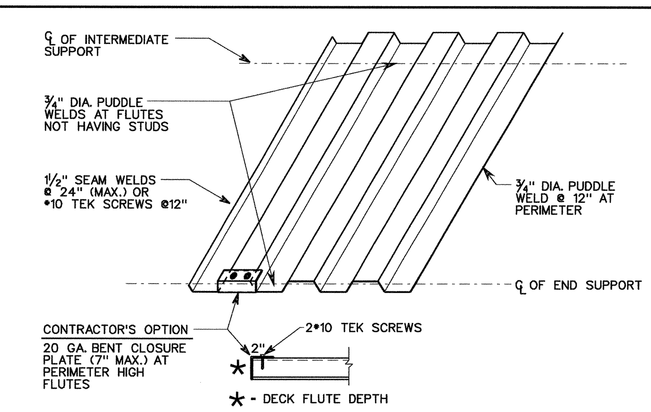
13 TYPICAL SECTION AT SLAB PENETRATIONS FOR MECHANICAL DUCTS WITH FIRE /SMOKE DAMPER

FLOOR OPENING SCHEDULE	
"L"	REINFORCEMENT
TO 10"	NO ADDITIONAL REINFORCING REQUIRED
10" TO 16"	1#4
16" TO 24"	1#5
24" TO 30"	2#5
OVER 30"	REQUIRES STRUCTURAL STEEL FRAME

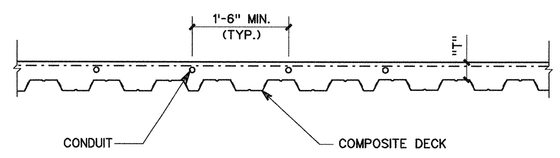
"L" IS MEASURED AT RIGHT ANGLE TO FLOOR DECK SPAN.



7 TYPICAL CLOSURE DETAIL

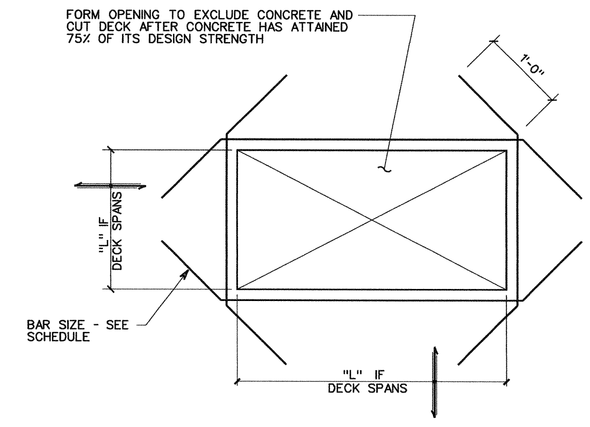


2 TYPICAL COMPOSITE DECK ATTACHMENT

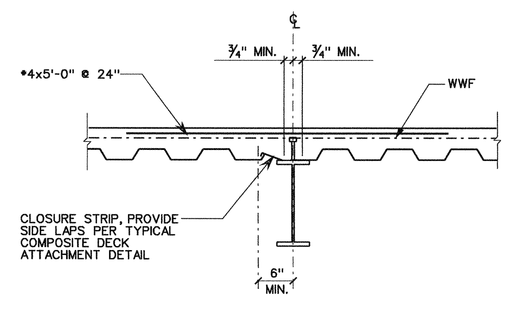


NOTES:
1. OUTSIDE DIA. OF CONDUIT SHALL NOT EXCEED 1" NOR 1/3 "T".
2. CROSSOVERS OF CONDUIT ARE NOT PERMITTED.
3. MAINTAIN ¾" MINIMUM CLEAR COVER.
4. CONDUITS GROUPED TOGETHER NEAR JUNCTION BOXES SHALL BE REINFORCED AS SLAB OPENINGS.

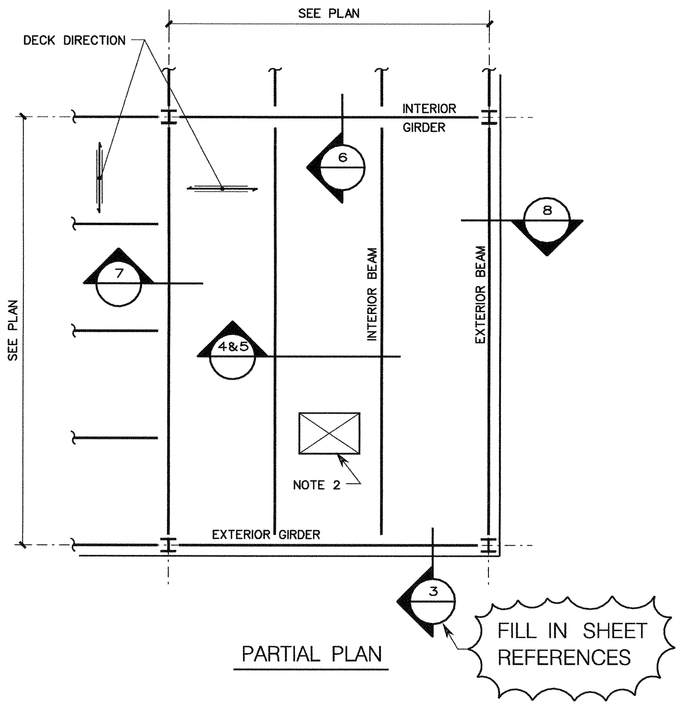
12 TYPICAL CONDUIT IN COMPOSITE SLAB DETAIL



10 TYPICAL FLOOR OPENING REINFORCING DETAIL

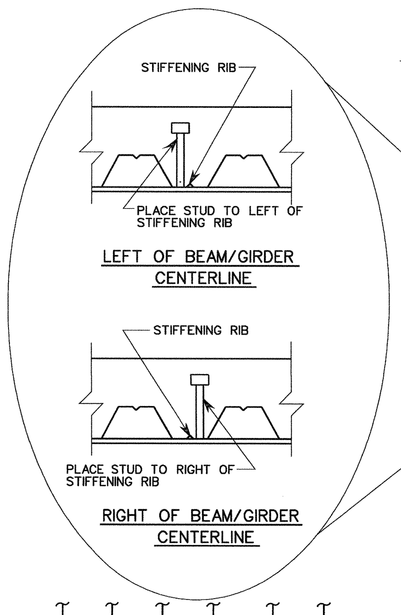


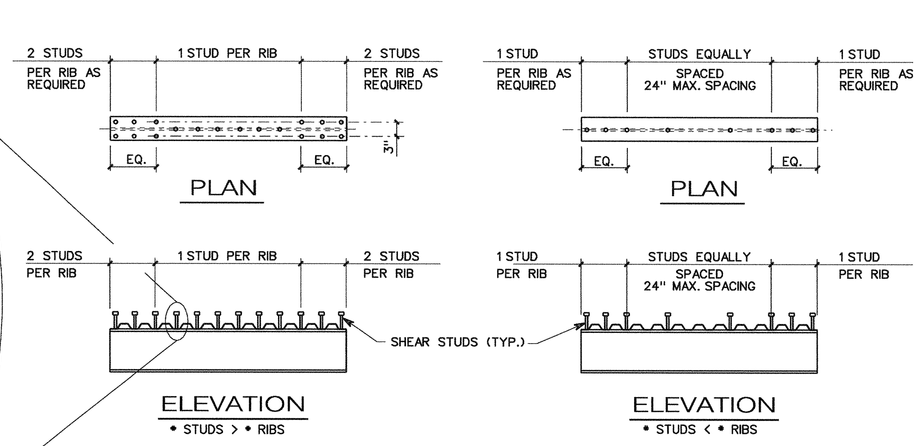
6 TYPICAL CLOSURE DETAIL



PARTIAL PLAN

FILL IN SHEET REFERENCES



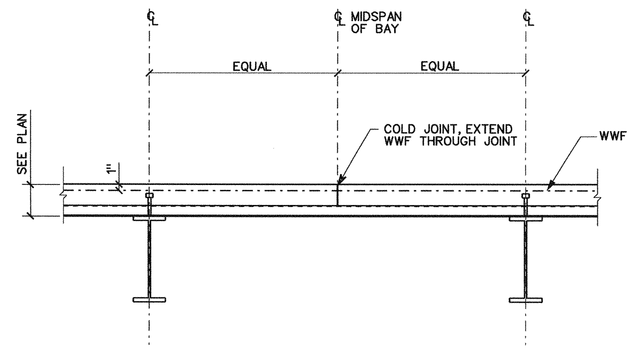


WHERE STEEL DECK CROSSES COMPOSITE BEAMS, SHEAR STUDS SHALL BE PLACED AT RIBS. WHERE NUMBER OF SHEAR STUDS REQUIRED EXCEEDS NUMBER OF RIBS, TWO STUDS PER RIB SHALL BE PROVIDED, PLACED FROM ENDS AS SHOWN.

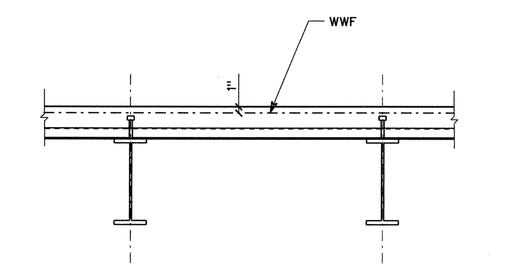
WHERE STEEL DECK CROSSES COMPOSITE BEAMS, SHEAR STUDS SHALL BE PLACED AT RIBS. WHERE NUMBER OF RIBS EXCEEDS NUMBER OF STUDS REQUIRED ONE STUD PER RIB SHALL BE PROVIDED AS REQUIRED FROM ENDS OF BEAM AS SHOWN WITH THE REMAINDER EQUALLY SPACED AT 24" MAXIMUM SPACING.

NOTES:
1. (X) ON FRAMING PLANS INDICATES TOTAL NUMBER OF SHEAR CONNECTORS TO BE INSTALLED ON BEAM.
2. SEE SPECIFICATIONS FOR MINIMUM TRANSVERSE AND LONGITUDINAL STUD SPACING.
3. PROVIDE STUDS AT 2'-0" IF NO STUDS ARE INDICATED FOR BEAMS OR GIRDERS SUPPORTING COMPOSITE DECK.
4. WHERE MULTIPLE BEAMS FRAME INTO A GIRDER, A SEGMENTED SPACING OF SHEAR STUDS MAY BE USED AND NOTED ON PLAN AS (n1, n2, n3, ...)

9 TYPICAL BEAM STUD SPACING/PLACEMENT DETAIL



5 TYPICAL SECTION THROUGH COMPOSITE SLAB AT CONSTRUCTION JOINT



4 TYPICAL SECTION THROUGH COMPOSITE SLAB

NOTES:
1. SEE DETAIL 2. THIS SHEET. FOR TYPICAL DECK ATTACHMENT.
2. SEE DETAILS 10 & 11. THIS SHEET. FOR TYPICAL DETAILS AT UN-FRAMED AND FRAMED OPENINGS.
3. SEE DETAIL 9 FOR STUD SPACING / PLACEMENT.

COMPOSITE BEAM DIAGRAM

BEAM SIZE — No. SHEAR STUDS- SEE SECTION "9" FOR SPACING REQUIREMENTS
W24x55 (48)
C-1¼" R-30K
BEAM CAMBER (UP) — FACTORED END REACTION (KIPS)

IF NO REACTION IS SHOWN:
A) FOR BEAMS W10 AND SMALLER, PROVIDE CONNECTION W/10K MIN. SHEAR CAPACITY.
B) FOR BEAMS W12 AND LARGER, PROVIDE CONNECTION BASED ON ½ OF THE MAXIMUM FACTORED UNIFORM LOAD TABULATED IN THE MANUAL OF STEEL CONSTRUCTION: LRFD, THIRD EDITION, PART 5.

1 TYPICAL COMPOSITE FLOOR CONSTRUCTION

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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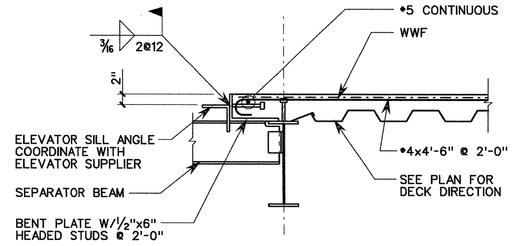
CONSULTANTS:
SDL STRUCTURAL ENGINEERS 1966
STANLEY D. LINDSEY AND ASSOCIATES, LTD
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WWW.SDLAL.COM
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REGISTRATION NO. 018830
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ROSE ANNA RODRIGUEZ P.E.
FLORIDA P.E. REGISTRATION No. 59423

PROJECT:
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PANAMA CITY, FLORIDA

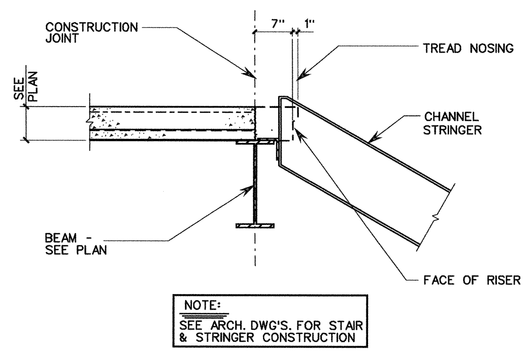
SHEET TITLE:
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SHEET NUMBER:
S3.1

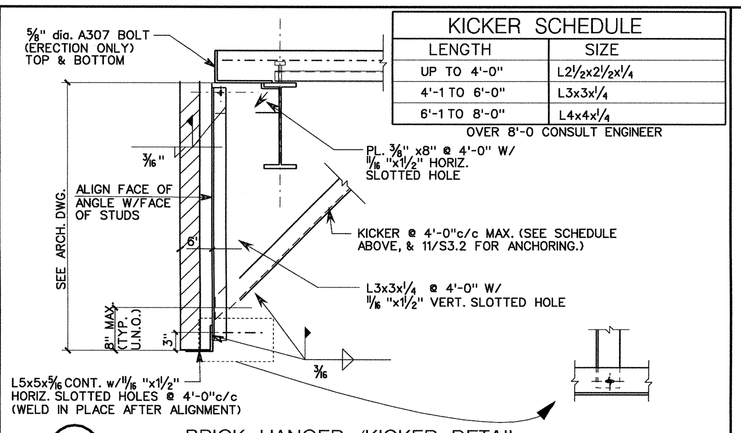
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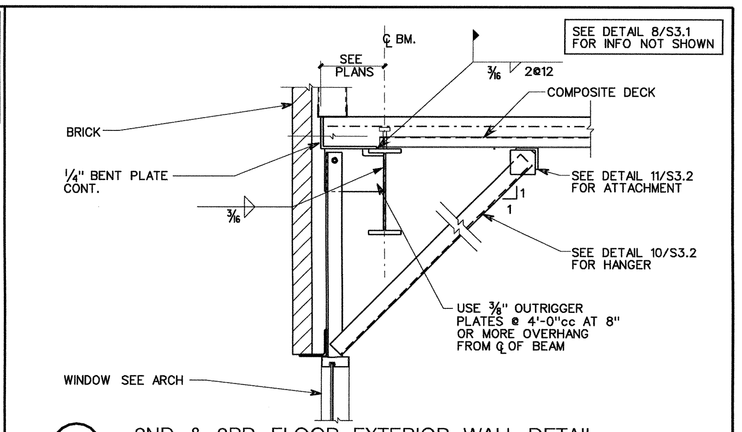
15 TYPICAL DETAIL AT ELEVATOR OPENING



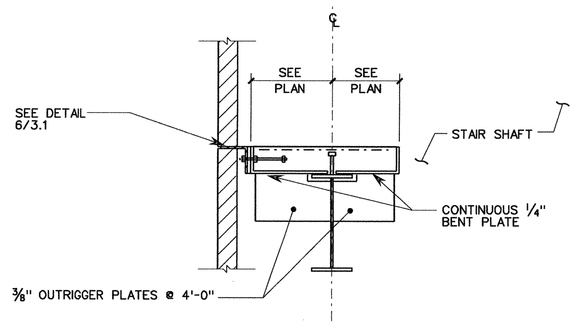
TYPICAL STAIR STRINGER TO BEAM CONNECTION



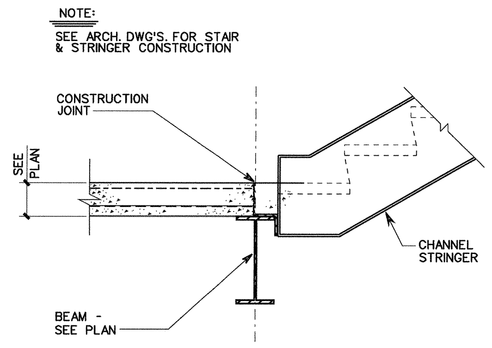
9 BRICK HANGER /KICKER DETAIL
TYPICAL FOR OPNG'S UP TO 6'-0" WIDE



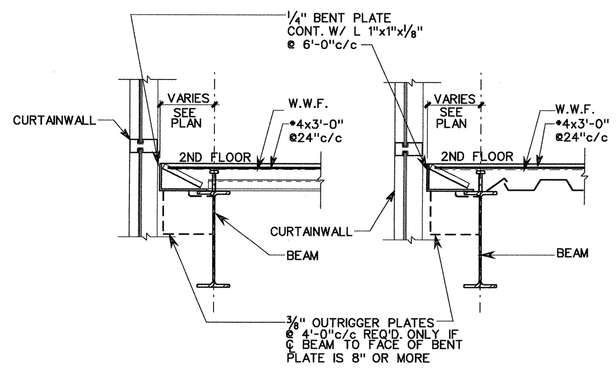
5 2ND & 3RD FLOOR EXTERIOR WALL DETAIL
AT LOW WINDOWS /OPENINGS OVER 6'-0" WIDE



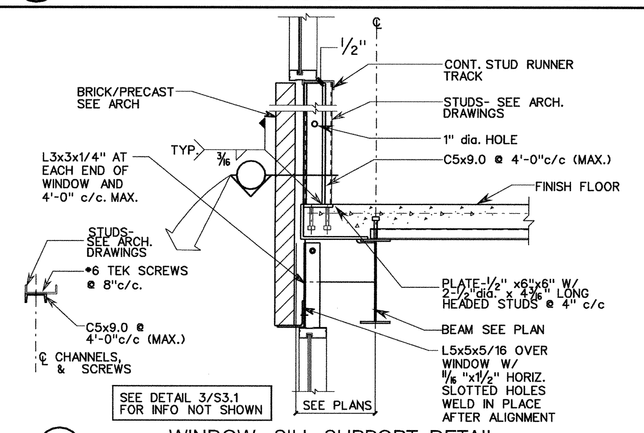
14 SECTION AT SLAB EDGE AND STAIR OPENING



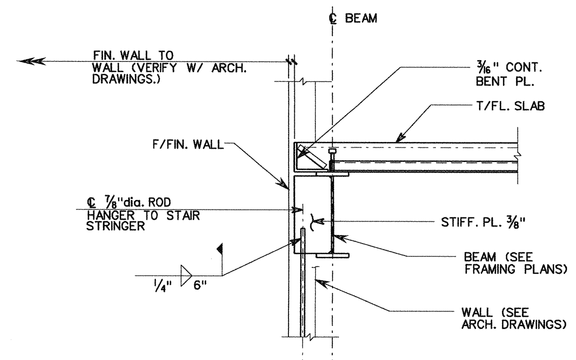
12 SECTION @ STAIR OPENING



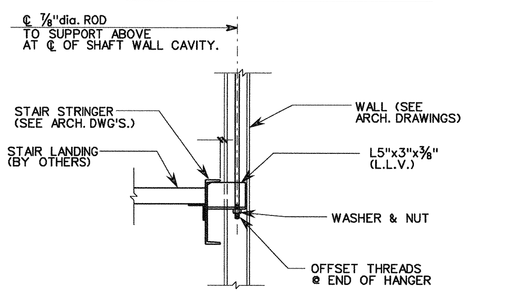
8 TYPICAL SECTION @ CURTAINWALLS



4 WINDOW SILL SUPPORT DETAIL
(AT WINDOWS 6'-0" & WIDER)

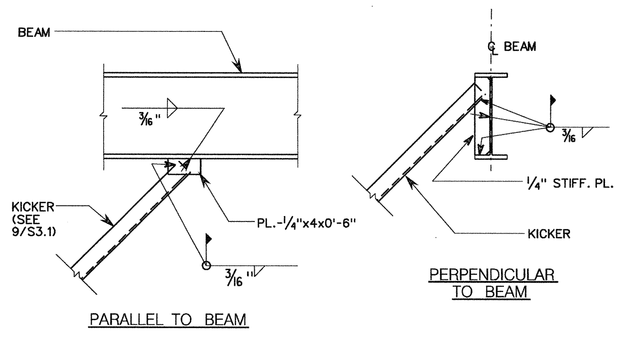


SECTION @ STAIR HANGER

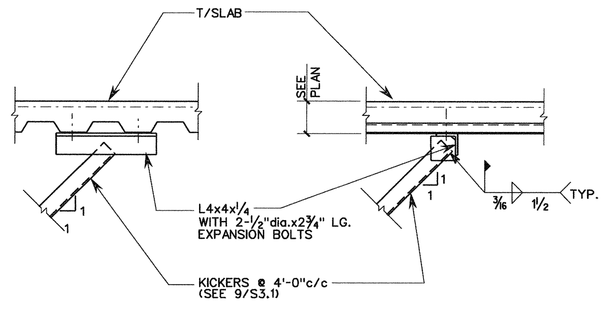


SECTION @ STAIR LANDING

13 STAIR LANDING HANGER SECTION

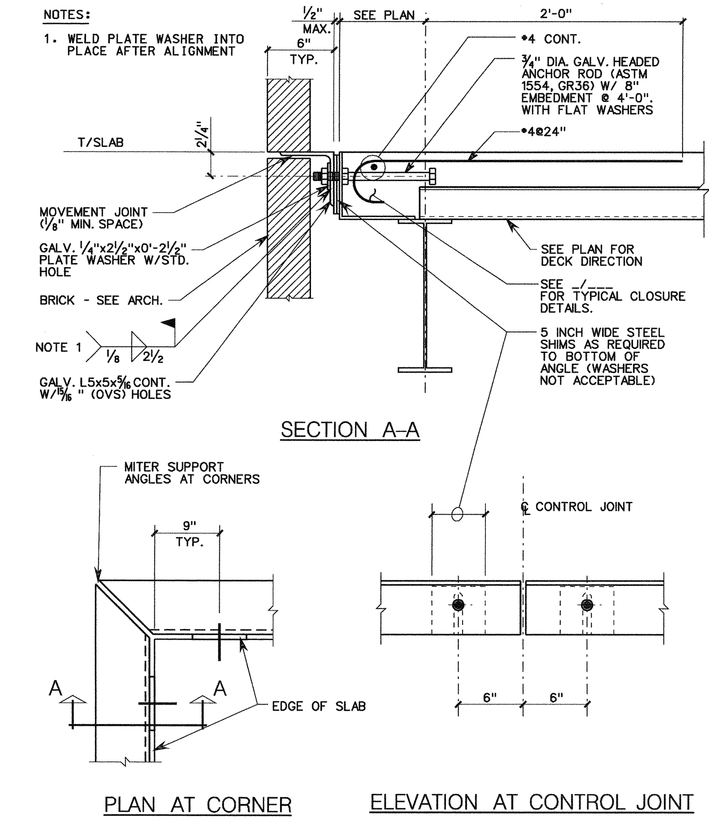


@ ROOF BEAMS



@ COMPOSITE SLAB

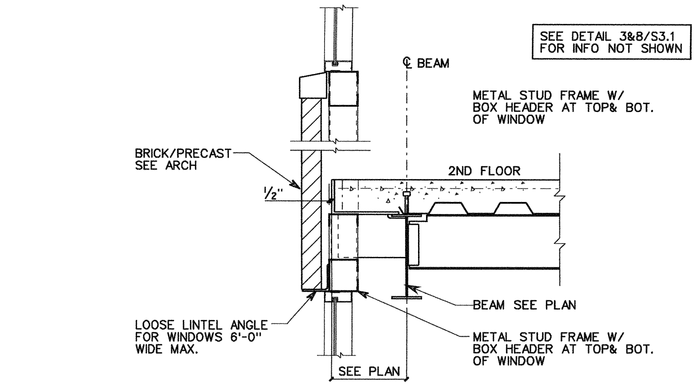
11 DETAIL-KICKER ANCHORAGE



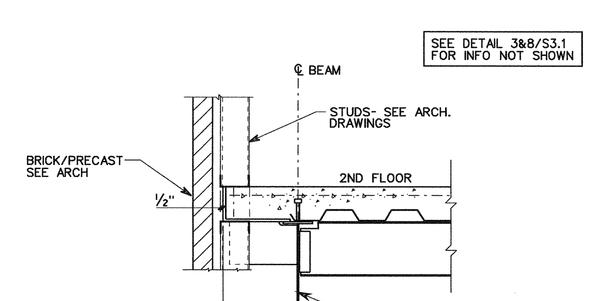
SECTION A-A

PLAN AT CORNER ELEVATION AT CONTROL JOINT

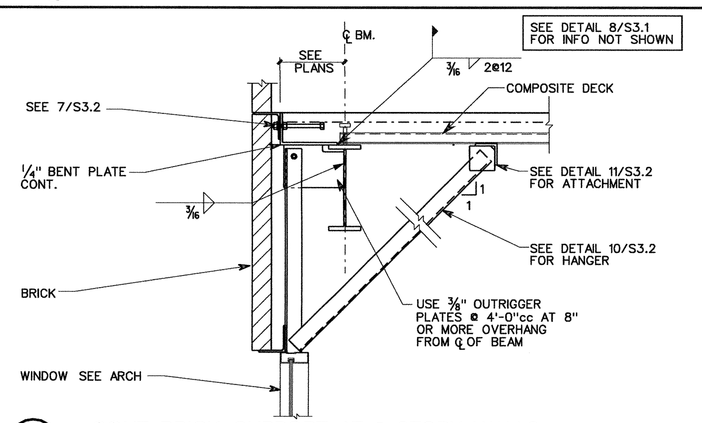
7 TYPICAL BRICK SUPPORT DETAIL



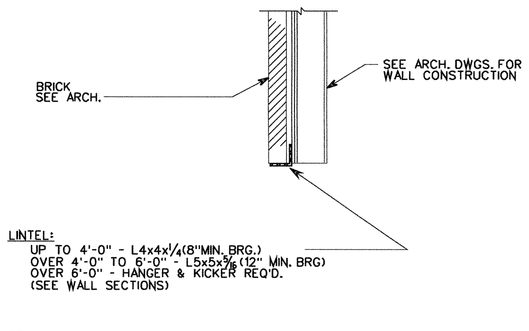
3 TYP. 2ND FLOOR EXTERIOS WALL SECTION
AT WINDOWS UP TO 6'-0" WIDE



2 TYP. 2ND FLOOR BRICK WALL SECTION



6 CONT. BRICK SUPPORT AT 3 STORY WALLS



1 LOOSE BRICK LINTEL DETAIL

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/06/07
75% CHECK SET	G.C.	WM/RR	11/16/07

JRA Architects, Inc.
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PROJECT NO. 106305.00
REGISTRATION NO. 00002332
CON.NO. C.A. 27323
ROSE ANNA RODRIGUEZ P.E. FLORIDA P.E. REGISTRATION NO. 58932

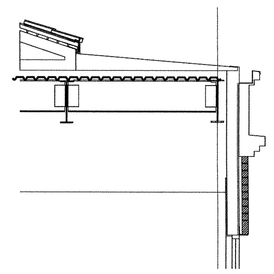
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FRAMING SECTIONS AND DETAILS

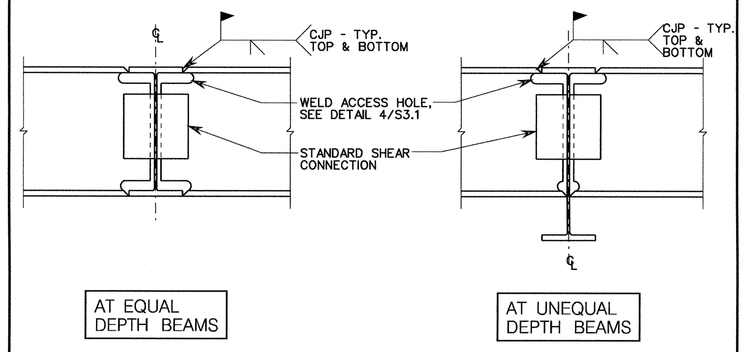
SHEET NUMBER:
S3.2

75% CHECK SET -NOT FOR CONSTRUCTION

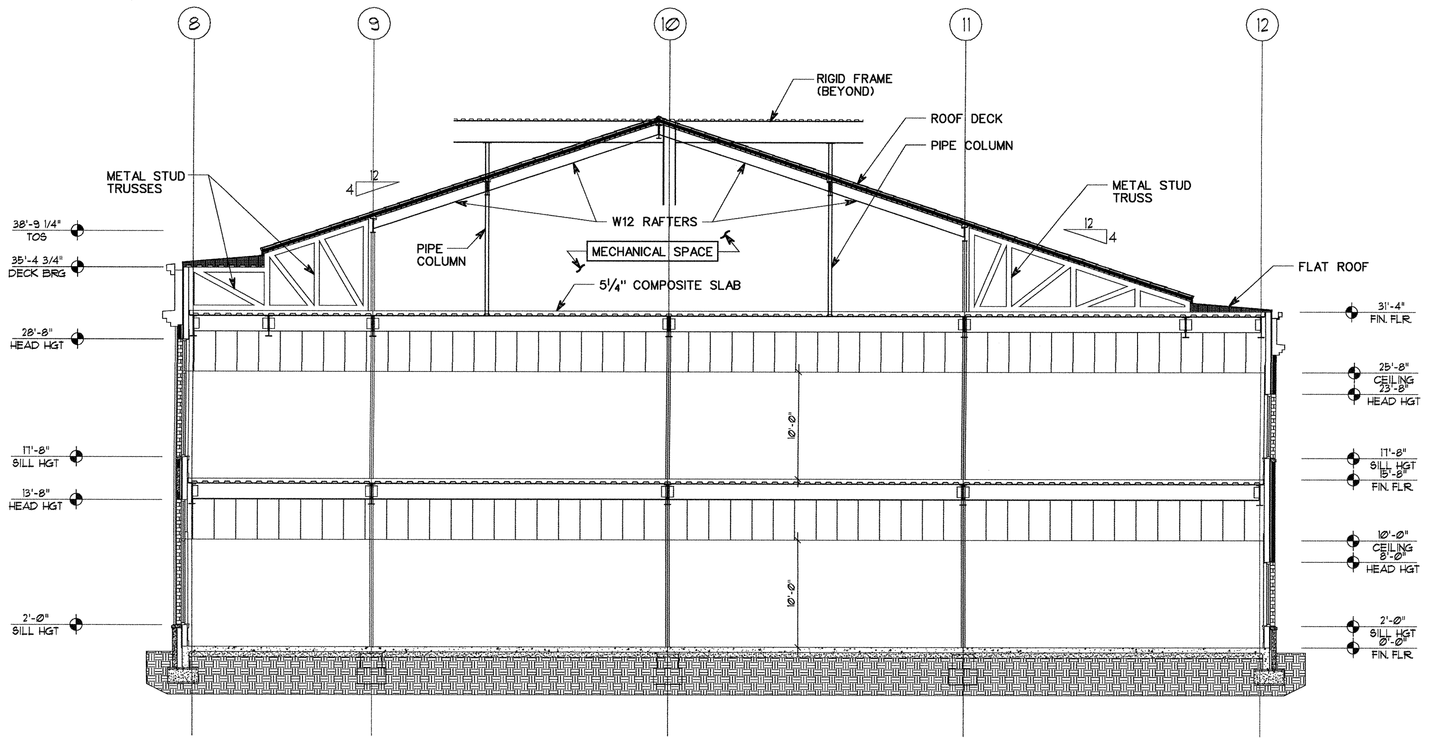
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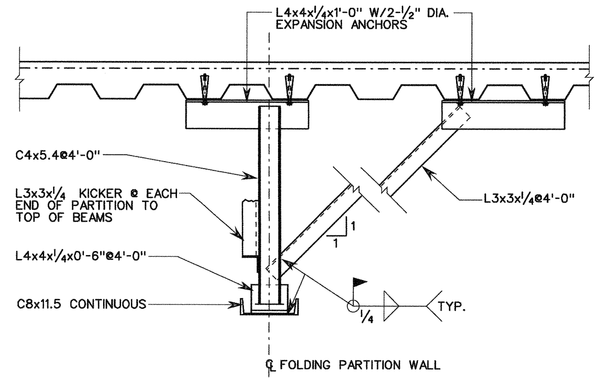
4 SECTION @ ROOF

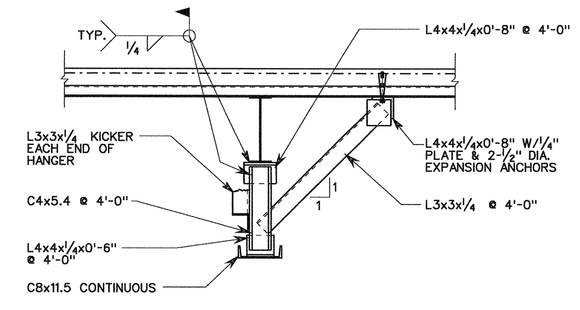


3 MOMENT CONNECTION DETAILS

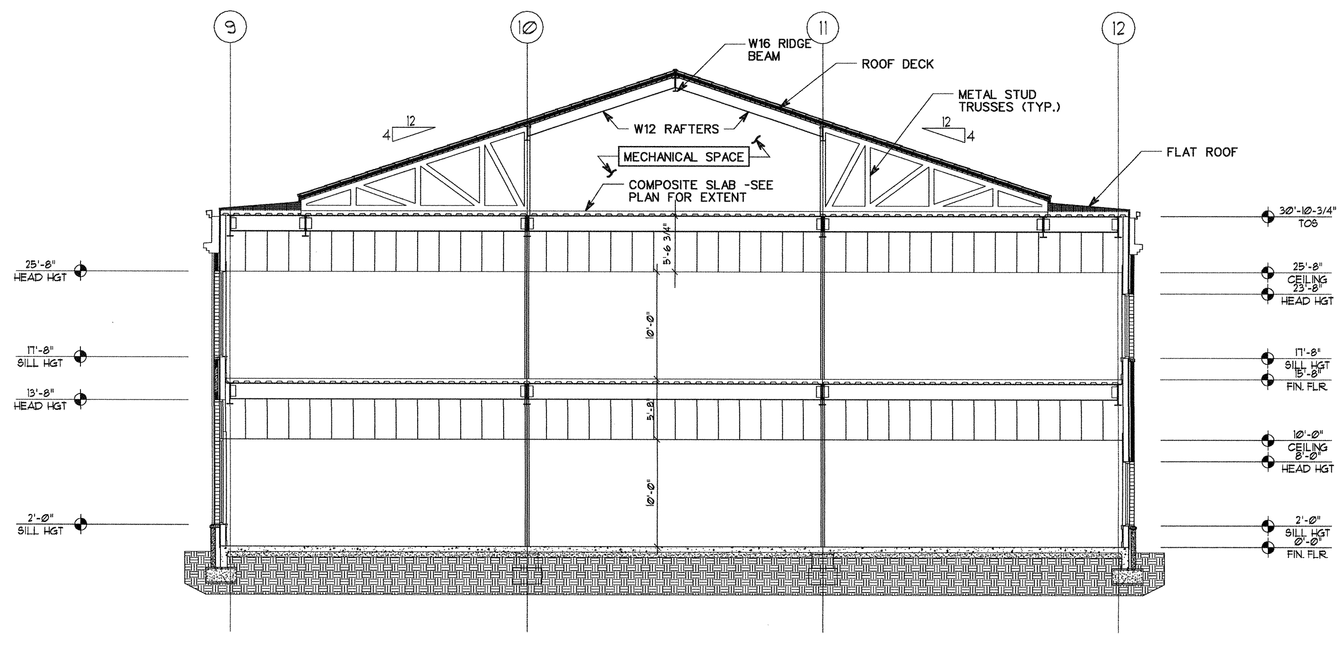


2 SECTION AT MECHANICAL ROOM





6 TYPICAL FOLDING PARTITION WALL HANGER
COORDINATE LOCATIONS W/ARCH.



1 SECTION AT MECHANICAL ROOM

75% CHECK SET -NOT FOR CONSTRUCTION

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WH/RR.	06/06/07
75% CHECK SET	G.C.	WH/RR.	11/15/07

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PROJECT NO. 106030.00
REGISTRATION NO. 018832
COA NO. C.A. #1420
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 58823

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

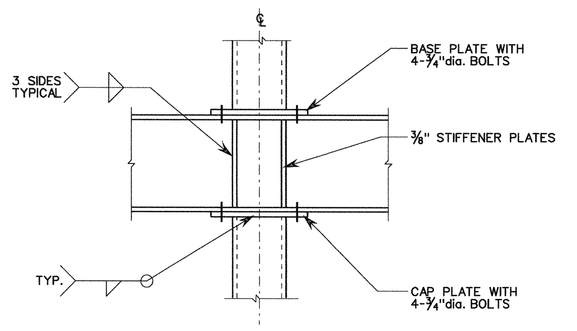
SHEET TITLE:
FRAMING SECTIONS AND DETAILS

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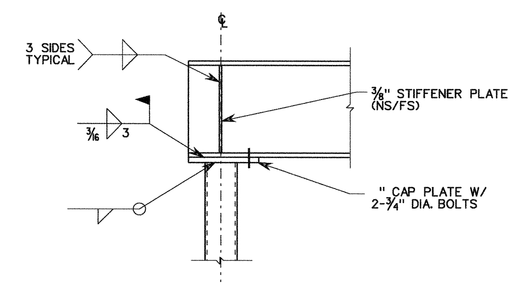
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COLUMN SCHEDULE

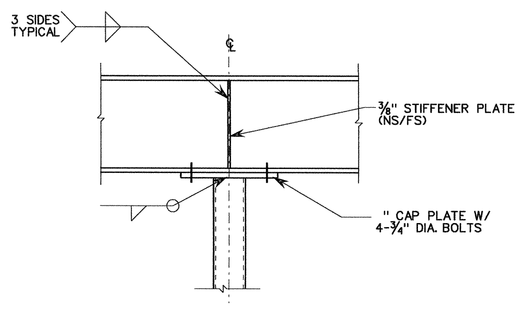
COLUMN MARK / FLOOR	A-12, B-9, A-7, B-8 B-7, C-9, A.5-12, C-8 B-12, B.5-12, C-12 E-11, D-10.2, A1-X8 A1-X9, E.8-9.5	A.5-10.2, E-10, F-10 C-7	E-4, E-5.2, G.8-8, J-8	B-10.2, B.5-10.2	B-2, L-11, L-10	J-11, J-10, C-4, B-4	K-11, K-10, B-3, C-3	B-5, C-6, H-11, H-10	E-6, A6-X1, A5-X4 A4-X6, A3-X8, A3-X9 A4-X11, A5-X13, A6-X15 G-8	A8-X3, A8-X5, A8-X7 A8-X10, A8-X12 A8-X14	D-5, H-9	B3-10.2		
P.H. ROOF T/STEEL														
ROOF T/STEEL	② S4.1 TYP.													
3rd FLOOR LOW ROOF	W10x39	W10x45	W10x39	W10x49	W10x49	W10x49	W10x39	W10x60	10" dia. X-STRONG PIPE	10" dia. X-STRONG PIPE	W10x45	W10x49		
2nd FLOOR									① S4.1 TYP.					
FIRST FLOOR T/SLAB T/FTG.														
SEE PLAN														



5 TYPICAL STACKED COLUMN CONNECTION

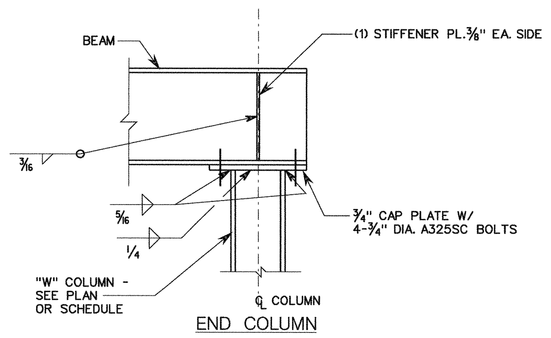


END COLUMN

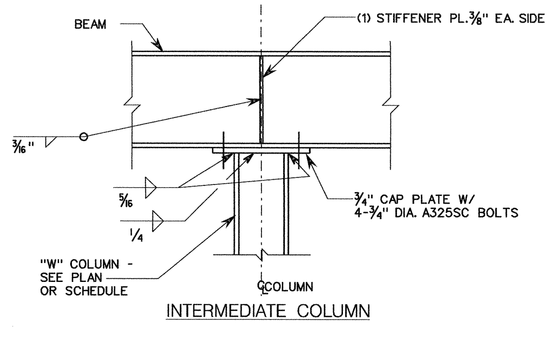


INTERMEDIATE COLUMN

4 TYPICAL BEAM TO HSS COLUMN CONNECTION
CONTINUOUS BEAMS

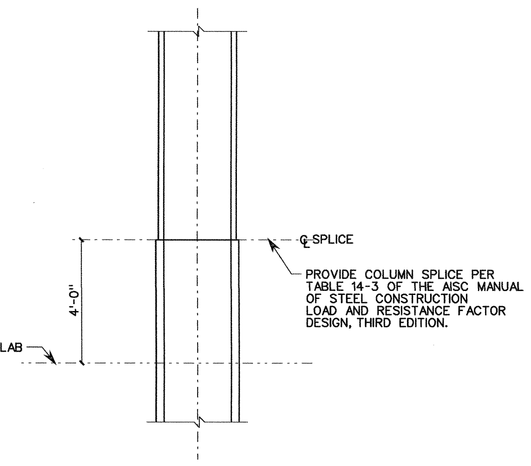


END COLUMN



INTERMEDIATE COLUMN

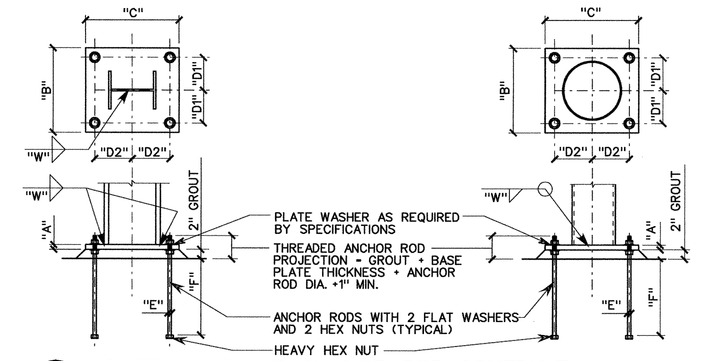
3 BEAM TO COLUMN CONNECTION DETAILS
@ WIDE FLANGE COLUMNS



2 TYPICAL COLUMN FIELD SPLICE DETAIL
GRAVITY COLUMNS

COLUMN SIZE	BASE PLATE A	B	C	D1	D2	ANCHOR RODS E	F	NO.	WELD "W"
W10x39	¼	17	17	6	6	¾	9"	4	⅝
W10x45	½	17	17	6	6	¾	9"	4	⅝
W10x49	½	17	17	6	6	¾	9"	4	⅝
W10x60	1¼	17	17	6	6	¾	9"	4	⅝
10" dia. PIPE	½	17	17	6	6	¾	9"	4	⅝

PROVIDE WELD ON OUTSIDE AND INSIDE OF FLANGE.



1 BASE PLATE AND ANCHOR ROD SCHEDULE
FOR NON-RIGID FRAME COLUMNS ONLY

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WH/RR	06/06/07
75% CHECK SET	G.C.	WH/RR	11/8/07

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PROJECT NO. 1063050
REGISTRATION NO. 109020
COA NO. C.A. #1529
ROSE ANNA RODRIGUEZ, P.E. FLORIDA P.E. REGISTRATION No. 58932

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

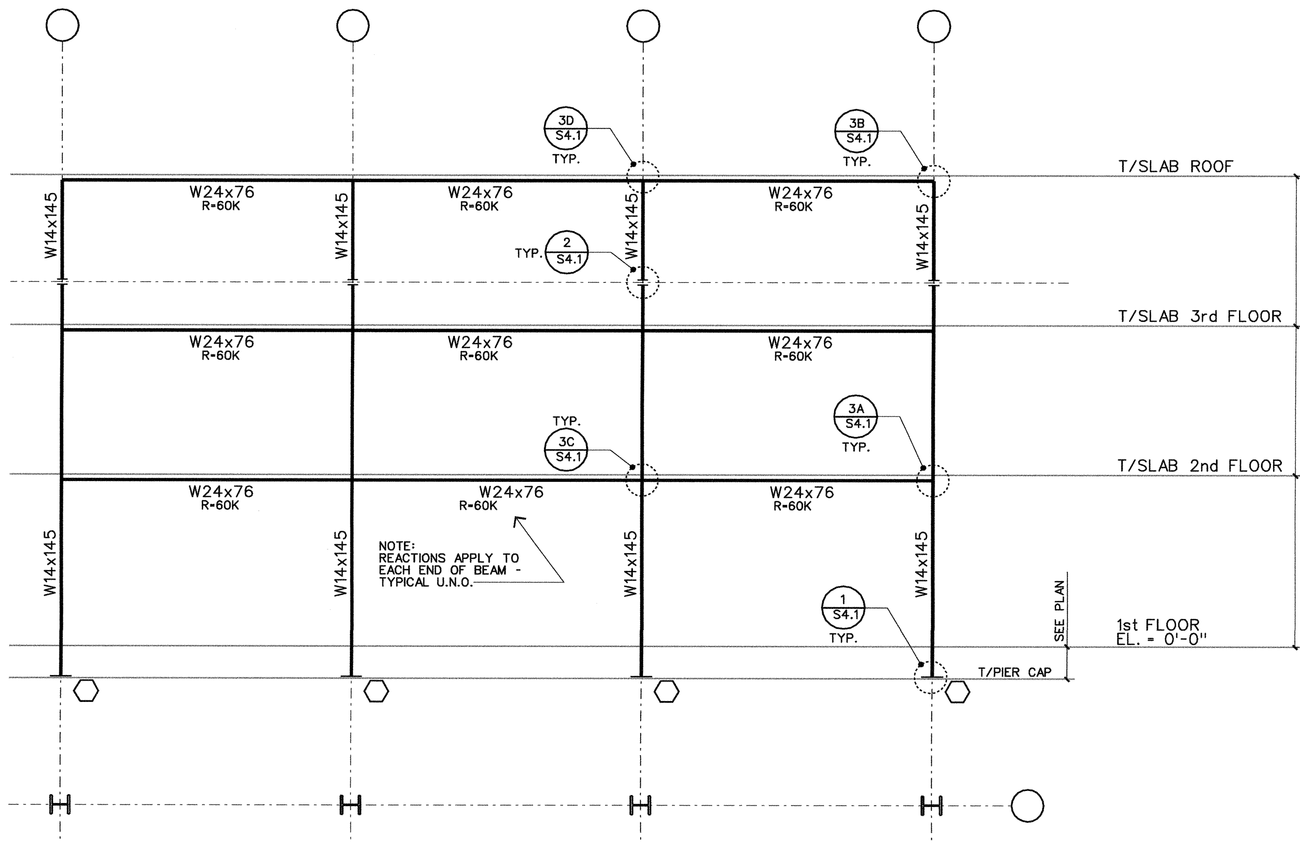
SHEET TITLE:
COLUMN SCHEDULE WITH SECTIONS & DETAILS

SHEET NUMBER:
S4.1

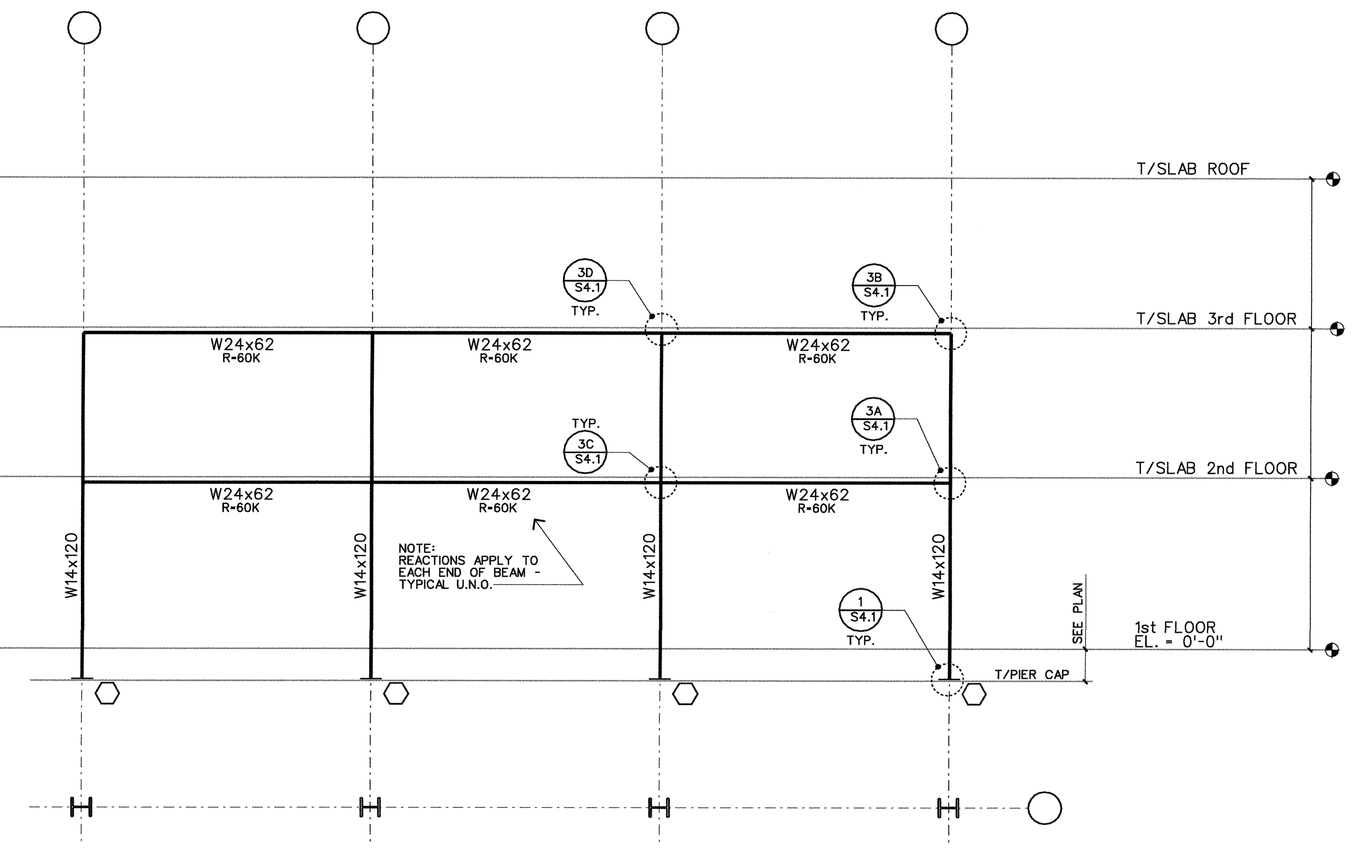
75% CHECK SET -NOT FOR CONSTRUCTION

STANLEY D LINDSEY & ASSOC.
14-NOV-2007 14:43
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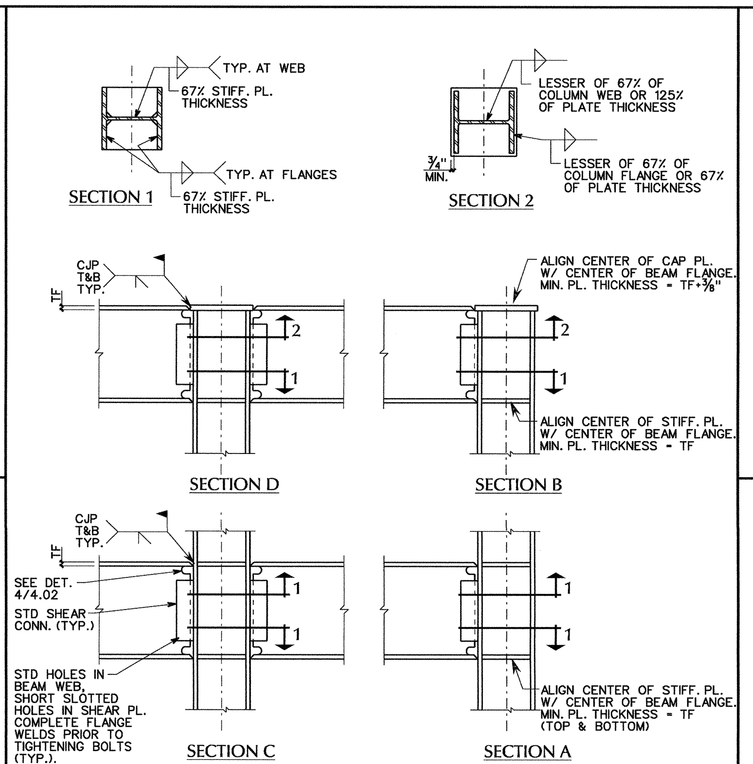
ELEVATION - RIGID FRAME #2, 8, 9



ELEVATION - RIGID FRAME #1, 5, 7, 10



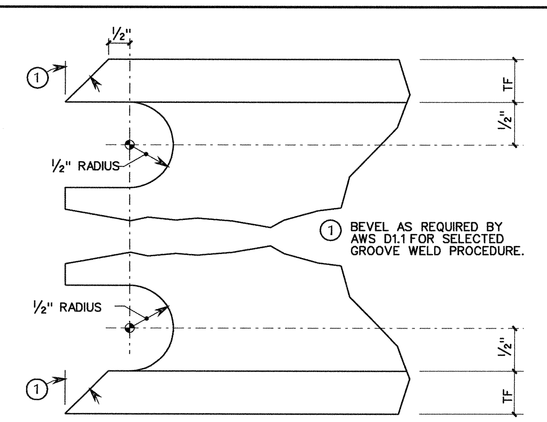
NOTE: ALL BEAMS SUPPORTING COMPOSITE CONC. SLAB SHALL HAVE ¾" DIA. x 3⅛" LONG SHEAR STUDS @ 2'-0"c/c - TYP. / U.N.O.



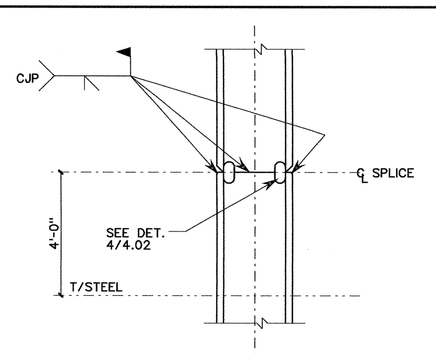
NOTES:

1. STANDARD SHEAR CONNECTION TO BE DESIGNED FOR REACTIONS SHOWN ON STRUCTURAL DRAWINGS.
2. TF= BEAM FLANGE THICKNESS
3. CAP PLATE AND STIFF. PLATE STEEL GRADE SHALL MATCH THE BEAM STEEL GRADE ALTERNATE: WHERE THE PLATE IS 1.4 TIMES THICKER THAN THE BEAM FLANGE, THE PLATE STEEL GRADE MAY BE A36.
4. WELD BACKING AND RUNOFF TABS SHOULD BE REMOVED FROM CJP FLANGE WELDS.

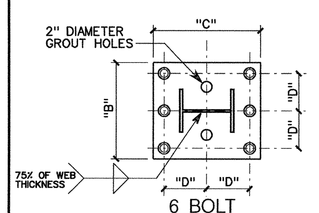
3 MOMENT CONNECTION DETAILS
AT RIGID FRAME COLUMNS



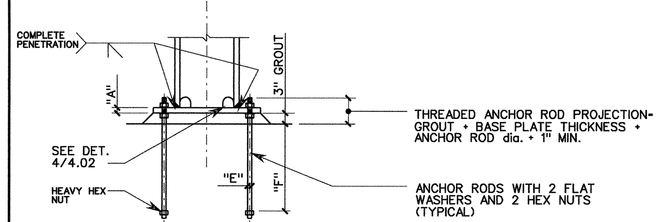
4 WELD ACCESS HOLE DETAIL



2 COLUMN FIELD SPLICE DETAIL
FRAME COLUMNS



BASE PLATE MARK	BASE PLATE A	B	C	D	ANCHOR RODS E	F	NO.
⬡	2¾"	27"	27"	12"	2"	24"	6



1 BASE PLATE & ANCHOR ROD SCHEDULE
FOR RIGID FRAME COLUMNS ONLY

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR.	06/06/07
75% CHECK SET	G.C.	WM/RR.	11/6/07

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Commission Number: 05311

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PRODUCT NO. 1962055.00
REGISTRATION NO. 109552
COA NO. C.A. #1520
ROSE ANNA RODRIGUEZ P.E. FLORIDA P.E. REGISTRATION NO. 58932

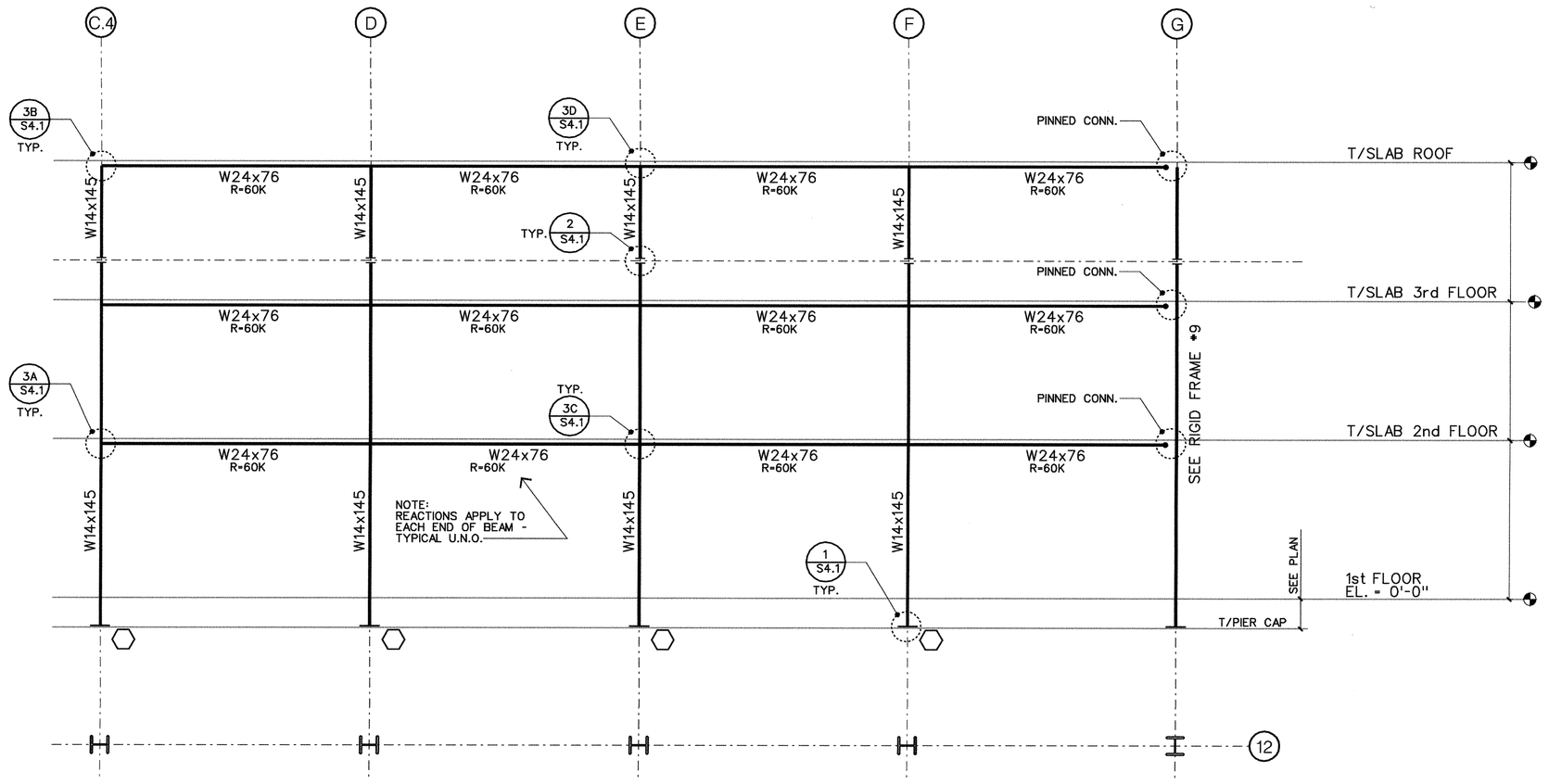
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
RIGID FRAME ELEVATIONS AND DETAILS

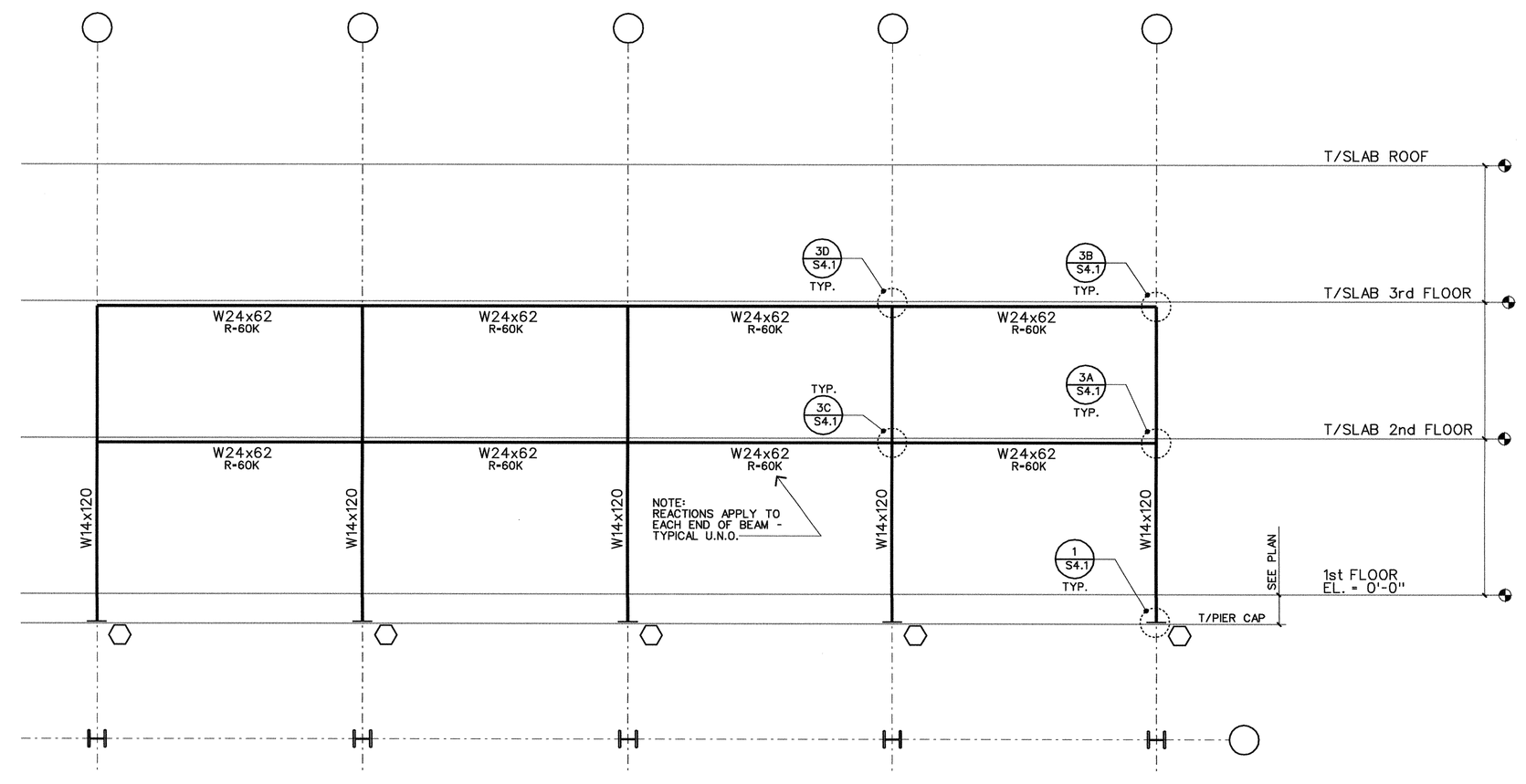
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S5.1

75% CHECK SET -NOT FOR CONSTRUCTION

STANLEY D. LINDSEY & ASSOC.
14-NOV-2007 14:43
cgalchis
p:\10630500\Bay County Admin Complex\Cad\S51.dgn



ELEVATION - RIGID FRAME #3



ELEVATION - RIGID FRAME #4, 6

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
DESIGN DEVELOPMENT	G.C.	WM/RR	06/06/07
75% CHECK SET	G.C.	WM/RR	11/5/07

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REGISTRATION NO. 89850
COA NO. C.A. #3120
ROSE ANNA RODRIGUEZ P.E.
FLORIDA P.E. REGISTRATION No. 58823

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
RIGID FRAME ELEVATIONS

SHEET NUMBER:
S5.2

75% CHECK SET -NOT FOR CONSTRUCTION

STANLEY D. LINDSEY & ASSOC.
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TELECOMMUNICATIONS INFRASTRUCTURE CABLING SYSTEM LEGEND

SYMBOL	DESCRIPTION	CABLING SYSTEM REQUIREMENTS: # OF CAT 6 CABLES/JACKS	# OF RG-6 COAX AND OUTLET	OTHER	NOTES	ELECTRICAL ROUGH-IN REQUIREMENTS FOR CABLING SYSTEM: PROVIDE 2-GANG BACKBOX	PROVIDE 1-GANG PLASTER RING	PROVIDE 2-GANG PLASTER RING	PROVIDE (QTY/x") CONDUIT	PROVIDE AS SHOWN ON PLANS	NOTES
ELEV FA	FIRE ALARM OR ELEVATOR PHONE CONNECTION	(1)	---		PROVIDE ONE CAT6 CABLE TO LOCATION.	✓	✓		(1)/1" C. FOR COMM. CABLES.		HOMERUN CONDUIT FROM OUTLET TO SERVING CLOSET. IN FIRE ALARM EQUIPMENT ROOM, RUN CONDUIT TO FINAL LOCATION AS DIRECTED BY EQUIPMENT INSTALLER.
DDC	HVAC CONTROL NETWORK CONNECTION	(2)	---		PROVIDE TWO CAT6 CABLES TO LOCATION.	✓	✓		(1)/1" C. . FOR COMM. CABLES.		HOMERUN CONDUIT FROM OUTLET TO SERVING CLOSET OR NEAREST COMMUNICATIONS CLOSET. COORDINATE EXACT REQUIREMENTS WITH HVAC CONTRACTOR.
D2 D4	WALL MOUNTED COMMUNICATIONS OUTLET (CO), TYPE 'D2', OR 'D4' SEE DETAILS.	(2)/(4)	---			✓	✓		(1)/1" C. FOR COMM. CABLES.		ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING OR NEAREST CABLE TRAY. COORDINATE EXACT MOUNTING HEIGHT AND ELEVATION WITH ARCHITECTURAL ELEVATIONS AND PLANS.
D2 D4 FB	COMBINATION POWER/COMMUNICATIONS FLOORBOX WITH TYPE 'D2' OR 'D4' OUTLET WITHIN FLOOR BOX.	(2)/(4)	---	✓	REFER TO A/V PLANS FOR CABLING AND JACK REQUIREMENTS				(1)/1" C. FOR COMM. CABLES.	✓	SEE FLOOR BOX DETAILS FOR BOX AND CONDUIT REQUIREMENTS.
D2 D4 PT	COMBINATION POWER/COMMUNICATIONS POKE-THRU WITH TYPE 'D2' OR 'D4' OUTLET WITHIN POKE-THRU.	(2)/(4)									
P D1	CEILING MOUNTED PROJECTOR WITH 'D1' TYPE COMMUNICATIONS OUTLET	(1)	---			✓	✓		(1)/1" C. FOR COMM. CABLES.		ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING OR NEAREST CABLE TRAY. COORDINATE EXACT MOUNTING HEIGHT AND ELEVATION WITH ARCHITECTURAL ELEVATIONS AND PLANS.
TV	WALL MOUNTED TELEVISION OUTLET, TYPE 'TV'. SEE DETAILS.	---	(1)			✓	✓		(1)/1" C. FOR COMM. CABLES.		MATCH HEIGHT OF POWER OUTLET SERVING TV. ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING OR CABLE TRAY.
———	ABOVE GROUND COMMUNICATIONS CONDUIT.	---	---							✓	SEE FLOORPLANS FOR ROUTING AND SIZE REQUIREMENTS. SEE UNDERGROUND CONDUIT NOTES IN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
– – – –	MAIN UNDERGROUND COMMUNICATIONS CONDUIT.	---	---							✓	SEE FLOORPLANS FOR ROUTING AND SIZE REQUIREMENTS. SEE UNDERGROUND CONDUIT NOTES IN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
HH	COMMUNICATIONS HANDHOLE. SEE NOTES AND DETAILS.	---	---							✓	SEE SITE PLAN DETAILS FOR REQUIREMENTS.
▶■	EXTERIOR SURVEILLANCE CAMERA, SEE NOTES THIS SHEET.	---	---	✓	SEE CAMERA SYSTEM NOTES THIS SHEET.	✓		✓		✓	PROVIDE WITH 4" SQ. BACKBOX RECESSED IN EXTERIOR FASCIA WITH 3/4"C TO ACCESSIBLE CEILING INSIDE BUILDING. PROVIDE BLANK STAINLESS STEEL FACEPLATE.

GENERAL BACKBONE CONDUIT PATHWAYS NOTE

RUN ALL BACKBONE CABLING IN BACKBONE CONDUIT PATHWAYS AS INDICATED, EXCEPT WHERE CONTRACTOR ELECTS TO INSTALL ADDITIONAL CONDUIT NOT INDICATED ON DRAWINGS. THE CONTRACTOR AGREES TO USE THE CONDUIT SYSTEM AS SHOWN, OR SHALL PROVIDE ADDITIONAL CONDUIT (AT NO ADDITIONAL COST TO THE OWNER) AS REQUIRED TO PROPERLY INSTALL ALL CABLING INDICATED, WITHOUT DAMAGE TO CABLING. THE ENTIRE CABLING PLANT SHALL BE TESTED TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR THIS PROJECT AND SHALL BE CERTIFIED BY THE CONTRACTOR. ALL BACKBONE CONDUIT SHALL CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.

CONDUIT BUSHING NOTE:

PROVIDE PLASTIC INSULATED BUSHINGS ON ALL CONDUIT STUB'S WHETHER METALLIC OR PVC. BUSHINGS SHALL ALSO BE PROVIDED FOR ALL CONDUITS WHETHER ABOVE OR BELOW CEILING OR AT FLOOR LEVEL. IT IS THE STRUCTURED CABLING CONTRACTORS RESPONSIBILITY TO ENSURE BUSHINGS HAVE BEEN PROVIDED ON ALL CONDUITS PRIOR TO PULLING CABLES. IF CONDUITS ARE FOUND TO BE WITHOUT BUSHINGS, STRUCTURED CABLING CONTRACTOR SHALL REMOVE CABLING, PROVIDE BUSHINGS AND REPLACE WITH NEW CABLING.

FIRESTOPPING NOTE:

THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED AFTER ALL CABLES ARE PULLED (ALL SYSTEMS) USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE EXISTING CONSTRUCTION.

CABLE ROUTING NOTE:

ALL COMMUNICATIONS CABLE SHALL BE INSTALLED IN CONDUIT, ON J-HOOKS AND CABLE TRAY. CONDUIT SHALL BE RUN ABOVE CEILINGS AND SHALL BE ROUTED UP HIGH DIRECTLY UNDER THE BUILDING ROOF STRUCTURE AND PROPERLY SUPPORTED WITH APPROVED HANGERS. ROUTE PARALLEL AND PERPENDICULAR TO BUILDING LINES. INSTALL CONDUITS TO AVOID ELECTROMAGNETIC INTERFERENCE FROM MOTORS, TRANSFORMERS, POWER CABLES/CONDUITS, LIGHTING FIXTURES, ETC.

HORIZONTAL CABLE ROUTING NOTE:

ALL HORIZONTAL CABLE NOT SHOWN TO BE INSTALLED IN HOMERUN CONDUIT SHALL BE RUN ABOVE CEILINGS AND SHALL BE ROUTED UP HIGH DIRECTLY UNDER THE BUILDING ROOF STRUCTURE AND PROPERLY SUPPORTED WITH APPROVED HANGERS AT 4'-0" ON CENTER. BUNDLE CABLES TOGETHER TO THE MAXIMUM EXTENT POSSIBLE AND ROUTE PARALLEL AND PERPENDICULAR TO BUILDING LINES. HANGERS SHALL BE ERICO CADDY "CABLECAT" CATEGORY 5 WITH WIDE BASE LOOP. BUNDLE CABLES AT 4'-0" ON CENTER WITH INDUSTRIAL VELCRO, COLOR BLUE. ATTACH HANGERS TO THE BUILDING STRUCTURE. DO NOT ATTACH HANGERS TO CEILING GRID OR SUPPORT WIRES, CONDUITS, DUCTWORK, PIPING, OR ANY OTHER SYSTEM COMPONENT. INSTALL CABLES TO AVOID ELECTROMAGNETIC INTERFERENCE FROM MOTORS, TRANSFORMERS, POWER CABLES/CONDUITS, LIGHTING FIXTURES , ETC.

PROVIDE 2" SLEEVES THROUGH FULL HEIGHT WALLS AS REQUIRED FOR FREE-ROUTED CABLES.

REFER TO ALL TYPICAL MOUNTING DETAILS FOR PROPER INSTALLATION.

COORDINATION NOTE AND GENERAL SCOPE OF WORK:

COMMUNICATIONS STRUCTURED CABLING SYSTEM:
THE CABLING CONTRACTOR SHALL PROVIDE ALL CABLING, BACKBONE CABLING, TERMINATIONS, EXISTING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATION CABLING SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH THE COMMUNICATIONS OUTLETS.

CAMERA SURVEILLANCE SYSTEM ROUGH-IN:
THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE, FOR THE INSTALLATION OF ALL ROUGH-IN FOR CAMERAS. THE EC SHALL PROVIDE ALL REQUIRED BACKBOXES AND CONDUIT FOR THESE SYSTEMS AND COORDINATE WITH ALL REQUIREMENTS WITH CAMERA CONTRACTOR.

GROUNDING:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR INSTALLING THE STRUCTURED CABLING CONTRACTOR (SCC) SHALL BE RESPONSIBLE FOR INSTALLING THE GROUNDING BUSBARS AS SHOWN ON THE DRAWINGS AND CONNECTING IT TO THE BUILDINGS MAIN ELECTRICAL SERVICE GROUND. THE STRUCTURED CABLING CONTRACTOR (SCC) SHALL BE RESPONSIBLE FOR GROUNDING ALL RACKS, PROTECTOR BLOCKS, CABLE LADDER TRAY IN COMMUNICATION CLOSETS, ETC, INCLUDING CONDUIT FOR EACH GROUND CONDUCTOR. THE SCC SHALL ALSO BE RESPONSIBLE FOR GROUNDING ALL BACKBONE CONDUIT AND CABLE TRAY.

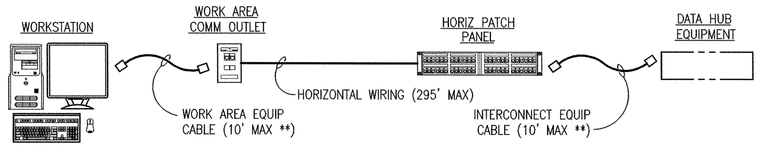
FIRESTOPPING:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE STRUCTURED CABLING CONTRACTOR (SCC) SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CABLING IS COMPLETE.

CASEWORK/MILLWORK:
THE CABLING CONTRACTOR SHALL BE RESPONSIBLE FOR **INSTALLING COMMUNICATIONS OUTLETS IN CASEWORK WHEN REQUIRED AS DIRECTED BY ARCHITECT IN FIELD. RUN CABLES CONCEALED IN CASEWORK AND STUB CONDUIT TO ABOVE ACCESSIBLE CEILING.**

CONDUIT:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR ALL BACKBONE CONDUIT AND HORIZONTAL CABLING CONDUIT. THIS IS TO INCLUDE ALL INTERIOR AND EXTERIOR CONDUIT, ALL WALL PENETRATIONS AND CONDUIT SLEEVES WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL HEIGHT PARTITIONS AS SHOWN ON THE DRAWINGS. CONDUIT PATHWAYS SHALL INCLUDE ALL PULLBOXES, PULLTAPE, PULLSTRINGS, CONDUIT MARKINGS, ETC. ALL CONDUIT SHALL BE INSTALLED ACCORDING TO THE ABOVEGROUND AND UNDERGROUND CONDUIT NOTES AS SHOWN ON THE DRAWINGS. PROVIDE END BUSHINGS ON ALL CONDUIT.

BACKBOARDS:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL BACKBOARDS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE SYSTEM.
THE ELECTRICAL CONTRACTOR (EC) SHALL ALSO BE RESPONSIBLE FOR ROUGH-IN OF ELECTRICAL CONDUIT PRIOR TO INSTALLATION OF BACKBOARDS. ALL POWER CONDUIT SHALL BE CONCEALED BEHIND ALL BACKBOARDS. BACKBONE CONDUIT SHALL BE EXPOSED AS SHOWN ON THE BACKBOARD ELEVATIONS.

THIS LIST IS NOT COMPREHENSIVE, THE STRUCTURED CABLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS SHOWN ON THE COMMUNICATIONS DRAWINGS AND/OR REQUIRED TO PROVIDE A COMPLETE SYSTEM.



** NOTE:
TIA-568 ALLOWS A TOTAL OF 10 METERS (33 FEET) FOR THE TOTAL OF THE WORK AREA EQUIP CABLE, THE CER OR CC EQUIP CABLE, AND A SECOND CROSS-CONNECT OR PATCH CABLE IN THE CER OR CC. THE DESIGN FOR THIS PROJECT DOES NOT UTILIZE A SECOND CROSS-CONNECT OR PATCH CABLE IN THE CER OR CC. EQUIPMENT CABLE LENGTHS IN THE WORK AREA AND IN THE CER OR CC SHOULD BE KEPT AS SHORT AS POSSIBLE FOR ALL APPLICATIONS. MAXIMUM RECOMMENDED LENGTHS ARE AS INDICATED.

"HORIZONTAL TELECOMMUNICATIONS LINK"

NOT TO SCALE

GENERAL SECURITY SYSTEM CABLING NOTES:

PROVIDE A SYSTEM OF CABLING FOR FUTURE SURVEILLANCE CAMERAS AT ALL LOCATIONS SHOWN. ROUTE ALL CABLING TO THE ROOM 2039 AND COIL 15' NEATLY IN ROOM 2039.

ALL CCTV CAMERA CABLING IS TO BE RUN CONCEALED ABOVE CEILING AND IN CONDUIT IN EXPOSED AREAS. THE CONTRACTOR SHALL COORDINATE THE ROUTING OF CONDUITS TO AVOID CONFLICTS WITH OTHER UTILITIES AND OBSTACLES, WHILE MINIMIZING CHANGES IN DIRECTION AND OVERALL CONDUIT LENGTH. ALL CONDUIT SHALL BE RUN OVERHEAD. OBTAIN APPROVAL OF ENGINEER PRIOR TO ANY CHANGES IN ROUTING.

CAMERA CABLING IS FOR FUTURE USE BY THE OWNER, COIL 4' SLACK NEATLY IN CEILING AT CAMERA LOCATION SHOWN. LABEL EACH END OF CABLE WITH ROOM NUMBER AND CABLE NUMBER.

CABLE RUN INDOORS SHALL BE RUN CONCEALED OVERHEAD ABOVE CEILINGS UNLESS LOCATED IN SPACES WITHOUT CEILINGS, IN AN UNFINISHED SPACE SUCH AS EQUIPMENT ROOMS OR IN SPACES SPECIFICALLY INDICATED TO HAVE EXPOSED CONDUIT INSTALLATIONS.

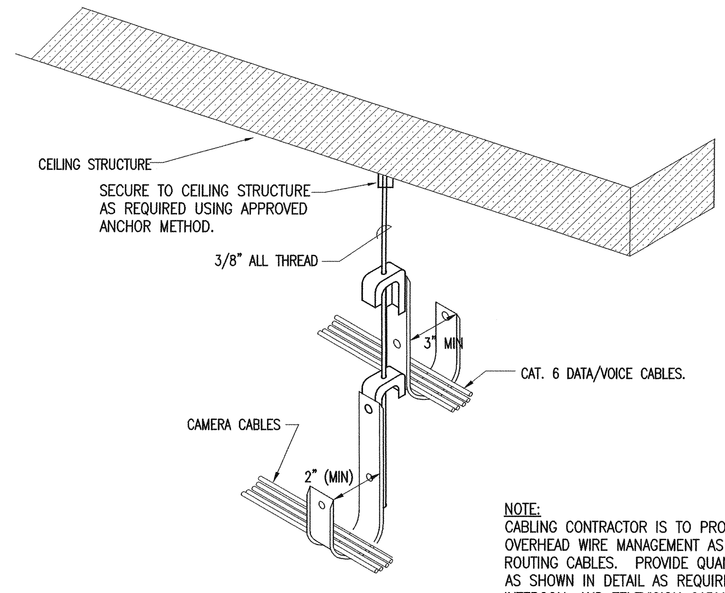
DEVICE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH DEVICE WITH THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO THE RACEWAY AND DEVICE BOX ROUGH-IN. PARTICULAR ATTENTION SHALL BE GIVEN TO COORDINATION OF DEVICE LOCATIONS RELATIVE TO WINDOWS, CASEWORK, CHALKBOARDS, MARKER BOARDS AND OTHER OBSTRUCTIONS.

CAMERA CABLE SHALL BE RG-59/U, 75 OHM COAX/ 18AWG 1 PAIR SIAMESE CCTV CABLE, PLENUM RATED. ALL COAX CONNECTIONS SHALL BE MADE USING INDUSTRIAL COMPRESSION CONNECTORS APPLIED WITH MATCHING TOOL.

SURVEILLANCE SYSTEM ROUGH-IN LEGEND

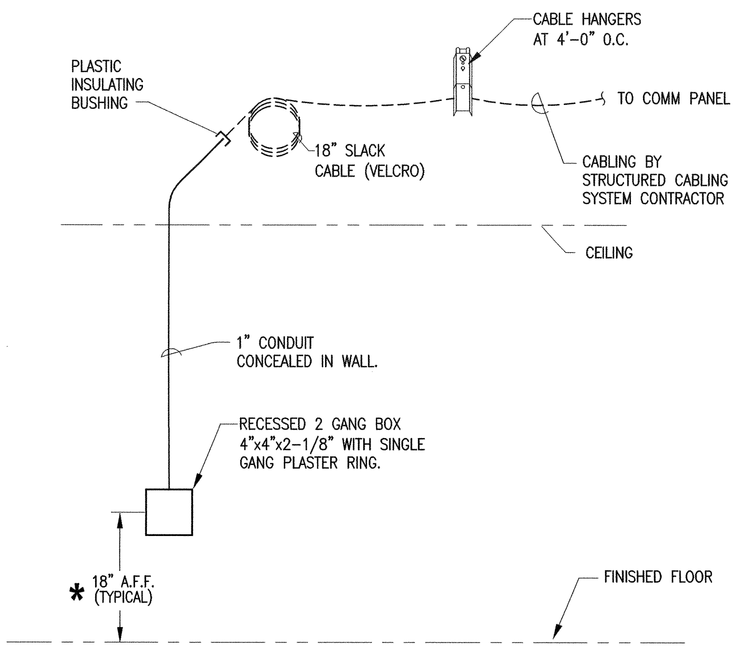
⊗ INTERIOR SURVEILLANCE CAMERA CABLING ROUGH-IN. COIL 4' OF SLACK CABLING IN CEILING AT LOCATION SHOWN. FOR HIGH CEILING AREAS, PROVIDE CABLE IN WALL-MOUNT 4" SQ BACKBOX ON WALL AT 88" A.F.F. ROUTE CABLING BACK THROUGH NEAREST CLOSET IN J-HOOK SYSTEM, COIL 20' SLACK AND CONTINUE CABLE ON TO ROOM 2039. NEATLY COIL 15' OF CABLE IN CER. UNIQUELY LABEL EACH CABLE AT EACH END AND AT 5' INTERVALS IN ANY EXPOSED AREAS.

▶■ EXTERIOR CAMERA CABLING ROUGH-IN. PROVIDE 4" SQ. BACKBOX FLUSH ON EXTERIOR OF BUILDING AT LOCATION SHOWN WITH 3/4" CONDUIT TO INTERIOR CEILING SPACE. COIL 4' OF SLACK CABLING INSIDE BUILDING AT CAMERA LOCATION. ROUTE CABLING BACK THROUGH NEAREST CLOSET IN J-HOOK SYSTEM, COIL 20' SLACK AND CONTINUE CABLE ON TO ROOM 2039. NEATLY COIL 15' OF CABLE IN CER. UNIQUELY LABEL EACH CABLE AT EACH END AND AT 5' INTERVALS IN ANY EXPOSED AREAS.



NOTE:
CABLING CONTRACTOR IS TO PROVIDE AND INSTALL OVERHEAD WIRE MANAGEMENT AS REQUIRED FOR ROUTING CABLES. PROVIDE QUANTITY OF J-HOOKS AS SHOWN IN DETAIL AS REQUIRED TO ROUTE DATA, INTERCOM, AND TELEVISION CABLING. ACTUAL LOCATION AND CONFIGURATION OF SUPPORTS AND THEIR LOCATION MAY VARY DEPENDING ON CEILING SPACE CONDITIONS.

TYPICAL - COMMUNICATIONS CABLE HANGERS - "J" HOOKS



*NOTE: COMMUNICATIONS OUTLET (CO) MOUNTING HEIGHT MAY VARY AT CABINETS OR CASEWORK. LOCATE AND MOUNT CO's AS DIRECTED BY ARCHITECTS PLANS. MATCH HEIGHT OF ADJACENT ELECTRICAL POWER OUTLETS.

TYPICAL COMMUNICATIONS OUTLET ◀ (CO) ROUGH-IN MOUNTING DETAIL

NOT TO SCALE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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Commission Number: 06318

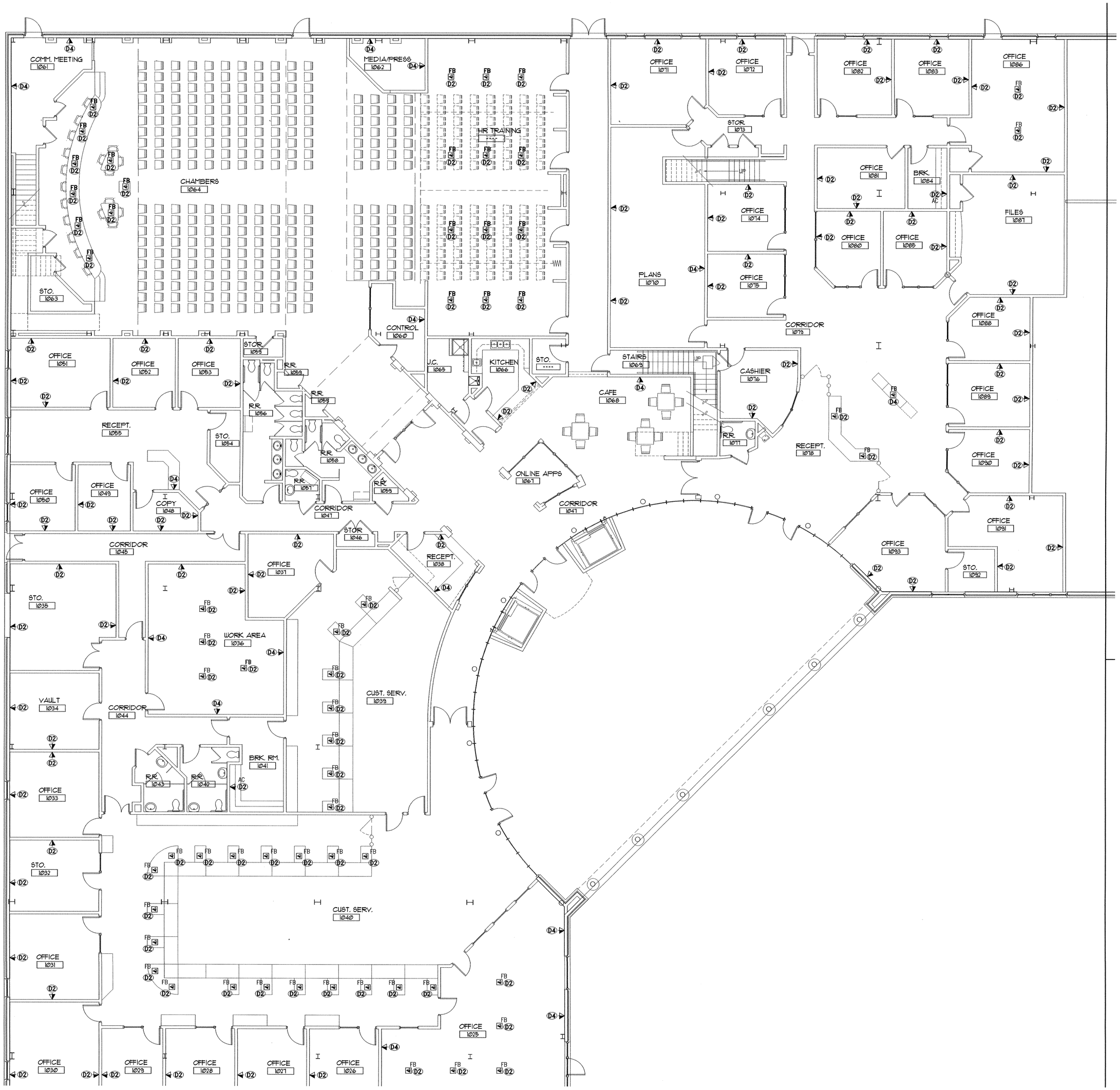
CONSULTANTS:

PROJECT:
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PANAMA CITY, FLORIDA

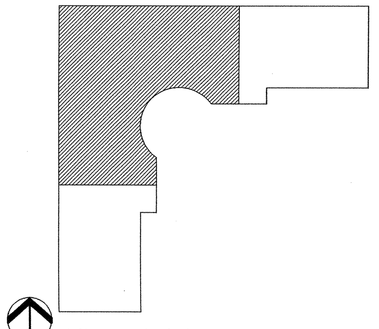
SHEET TITLE:
COMMUNICATION LEGEND AND NOTES

SHEET NUMBER:
T0.1



FIRST FLOOR PLAN - COMMUNICATIONS AREA A

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



NORTH KEY PLAN SCALE: N.T.S.

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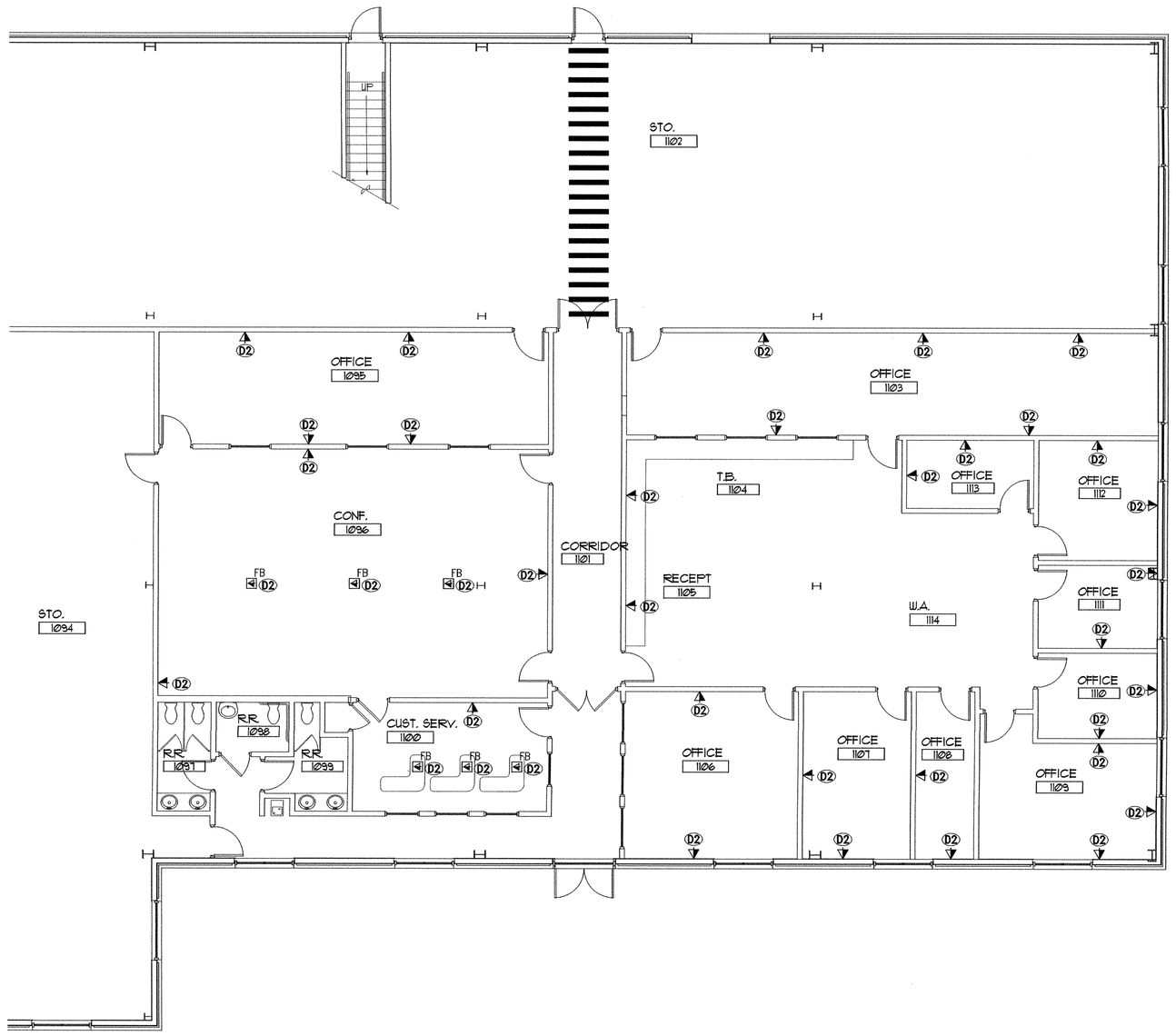
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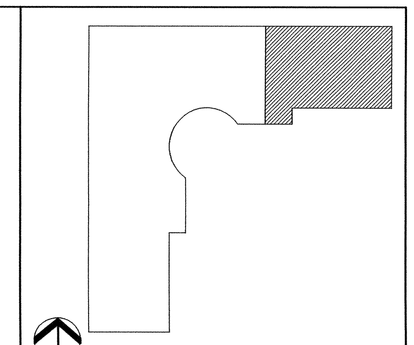
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FIRST FLOOR PLAN COMMUNICATIONS AREA A

SHEET NUMBER:
T2.1A





FIRST FLOOR PLAN - COMMUNICATIONS AREA B
SCALE: 1/8"=1'-0"

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NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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DESIGN DEVELOPMENT	-	-	06-06-07
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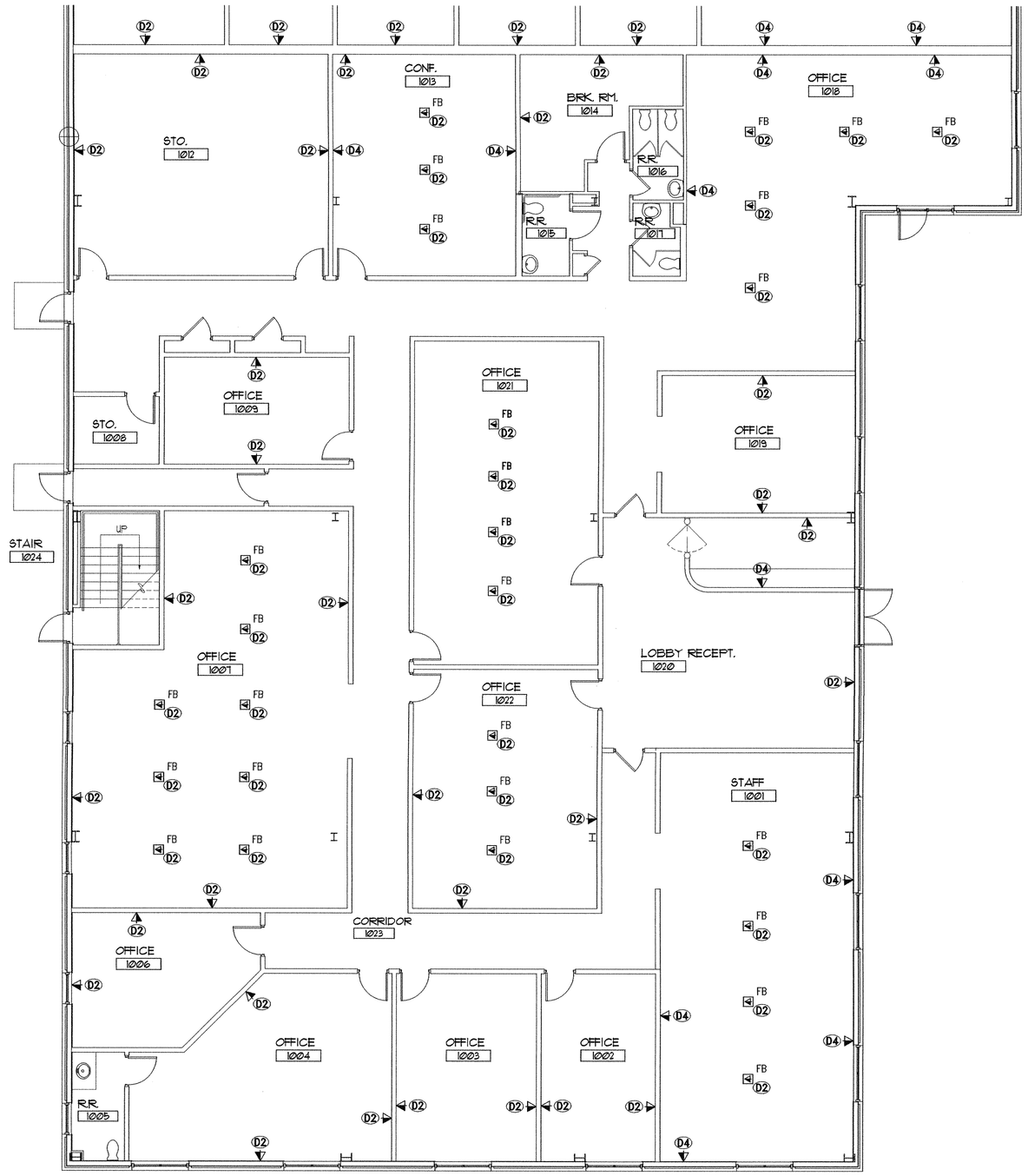
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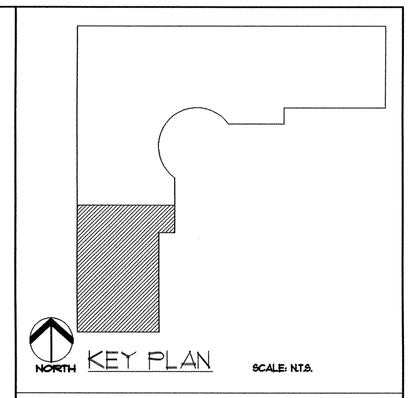
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FIRST FLOOR PLAN
COMMUNICATIONS AREA B

SHEET NUMBER:
T2.1B



FIRST FLOOR PLAN - COMMUNICATIONS AREA C

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



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SCHEMATIC DESIGN	-	-	03-20-07
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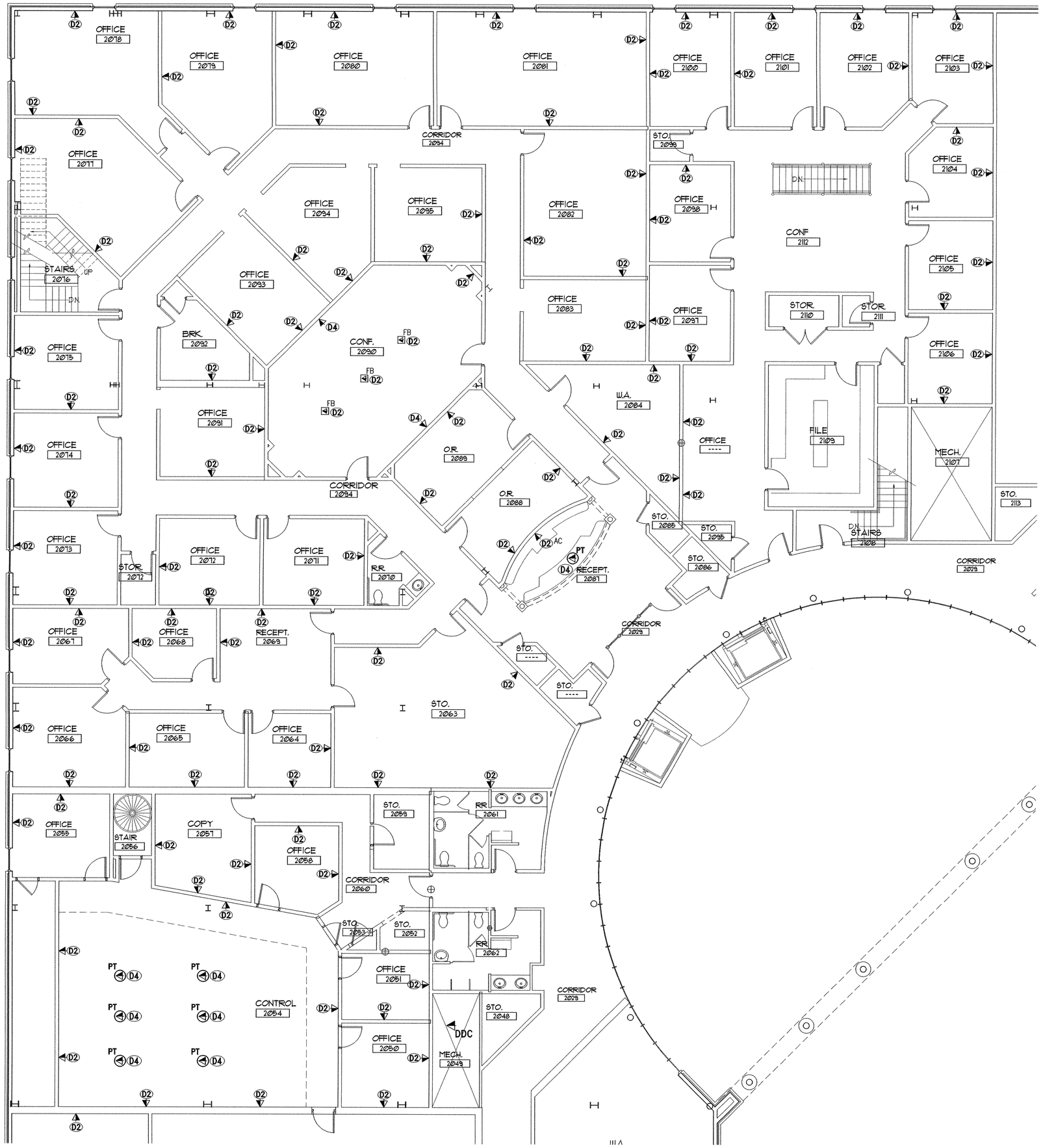
CONSULTANTS:

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PANAMA CITY, FLORIDA

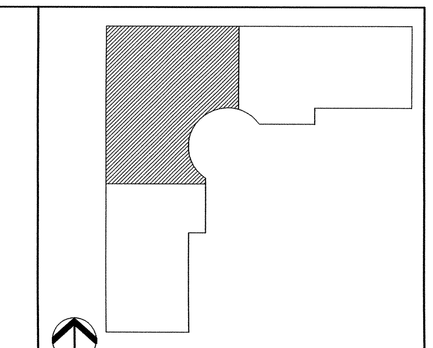
SHEET TITLE:
FIRST FLOOR PLAN
COMMUNICATIONS AREA C

SHEET NUMBER:
T2.1C



SECOND FLOOR PLAN - COMMUNICATIONS AREA A

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



REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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DESIGN DEVELOPMENT	-	-	06-06-07
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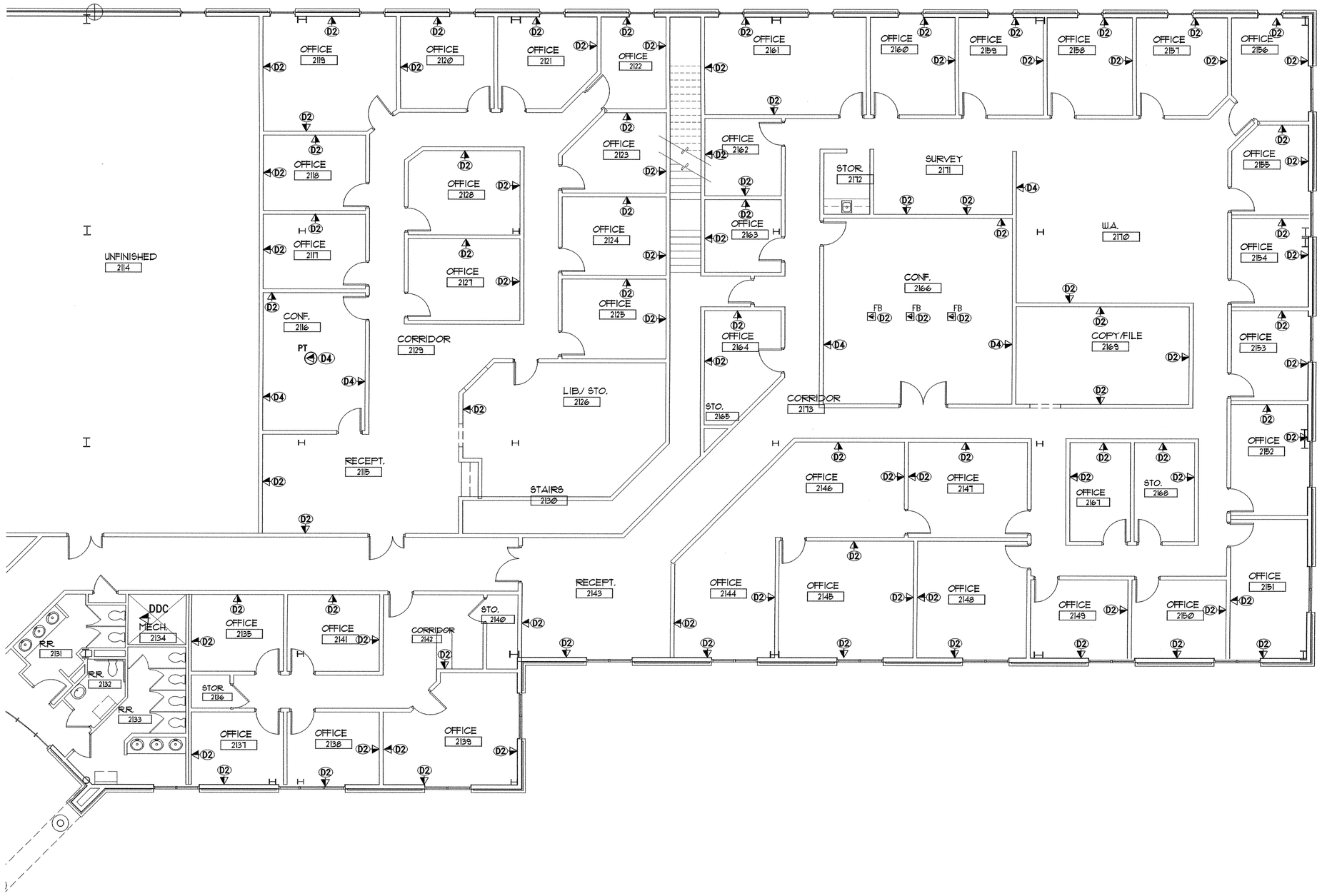
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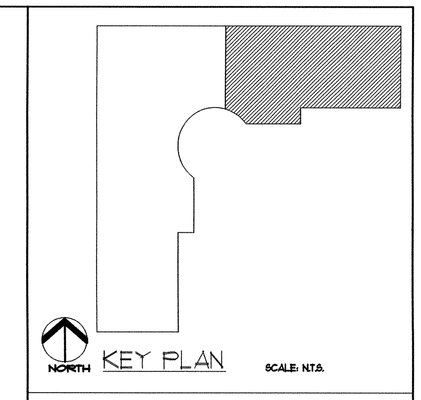
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SECOND FLOOR PLAN
COMMUNICATIONS AREA A

SHEET NUMBER:
T2.2A



SECOND FLOOR PLAN - COMMUNICATIONS AREA B

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



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PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
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FAX: (850) 230-3594
Commission Number: 06318

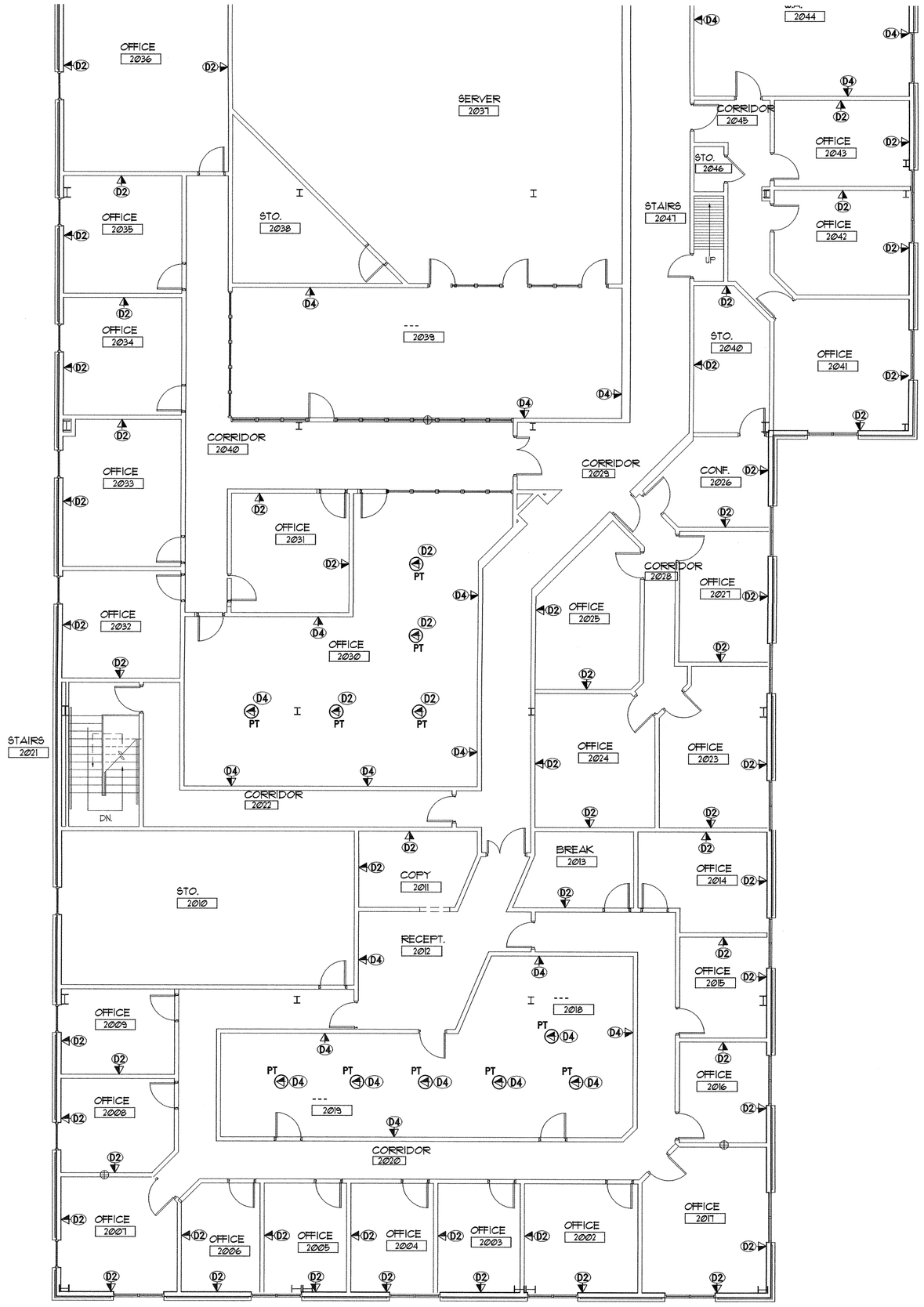
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION
BUILDING

PANAMA CITY, FLORIDA

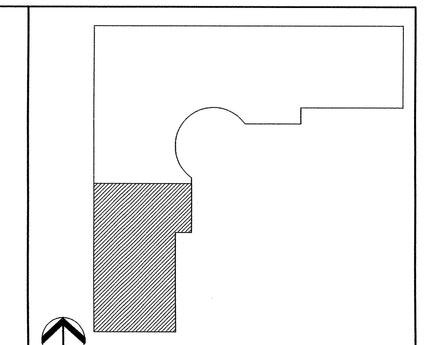
SHEET TITLE:
SECOND FLOOR PLAN
COMMUNICATIONS AREA B

SHEET NUMBER:
T2.2B



SECOND FLOOR PLAN - COMMUNICATIONS AREA C

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



REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-01
DESIGN DEVELOPMENT	-	-	06-06-01
DD OWNER REVIEW	-	-	08-08-01
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-01
----	-	-	----

JRA Architects, Inc.
2505 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION
BUILDING

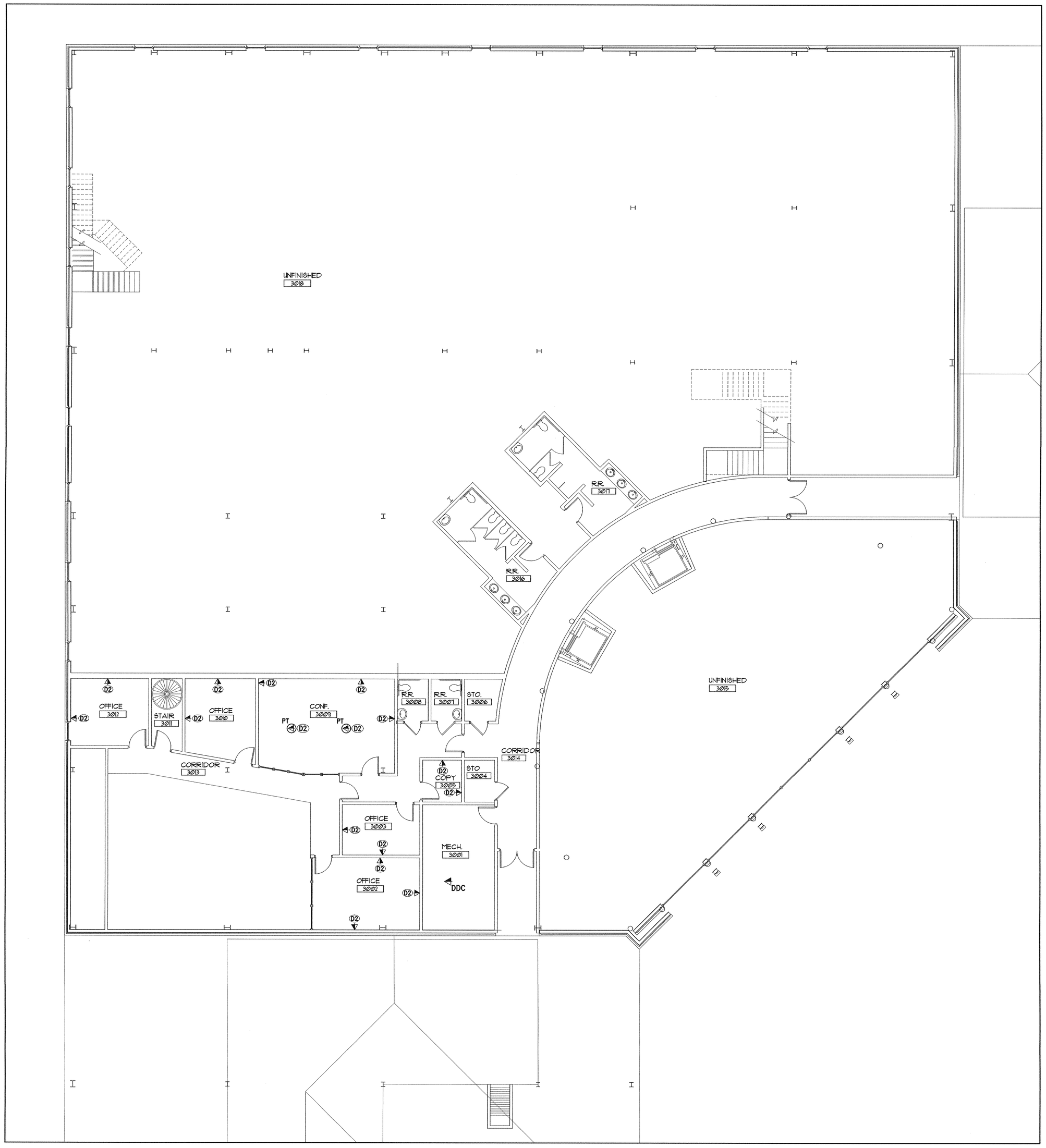
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR PLAN
COMMUNICATIONS AREA C

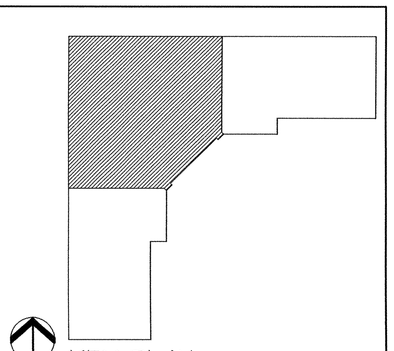
SHEET NUMBER:

T2.2C



THIRD FLOOR PLAN - COMMUNICATIONS AREA A

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



NORTH KEY PLAN SCALE: N.T.S.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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JRA Architects, Inc.
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION
BUILDING

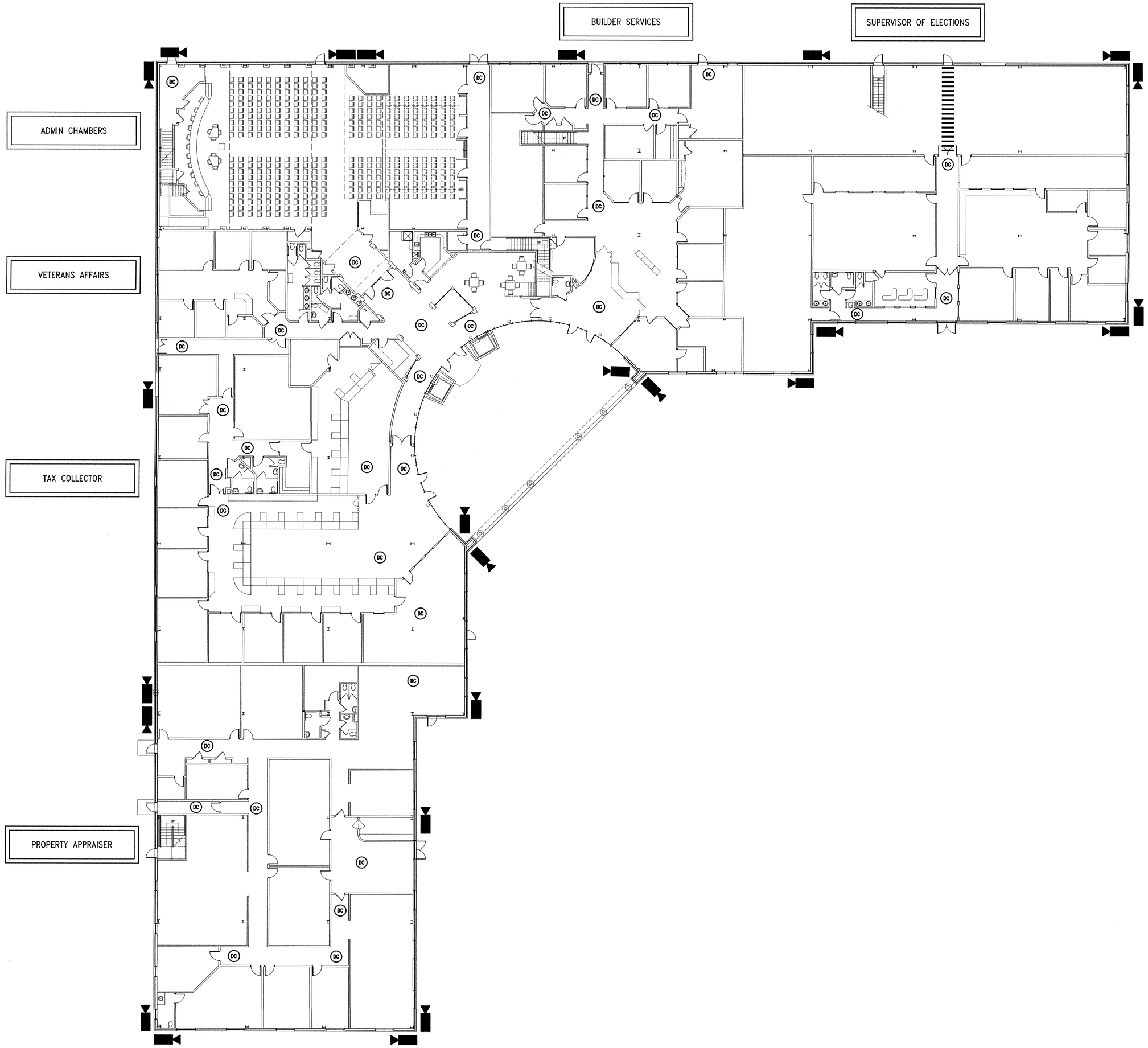
PANAMA CITY, FLORIDA

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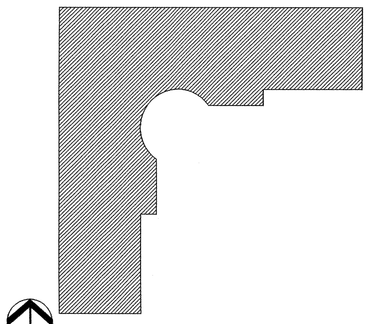
THIRD FLOOR PLAN
COMMUNICATIONS AREA A

SHEET NUMBER:

T2.3A



FIRST FLOOR - OVERALL - CAMERA ROUGH-IN
SCALE: 1/16"=1'-0"



KEY PLAN SCALE: N.T.S.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-06-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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FAX: (850) 230-3584
Commission Number: 06318

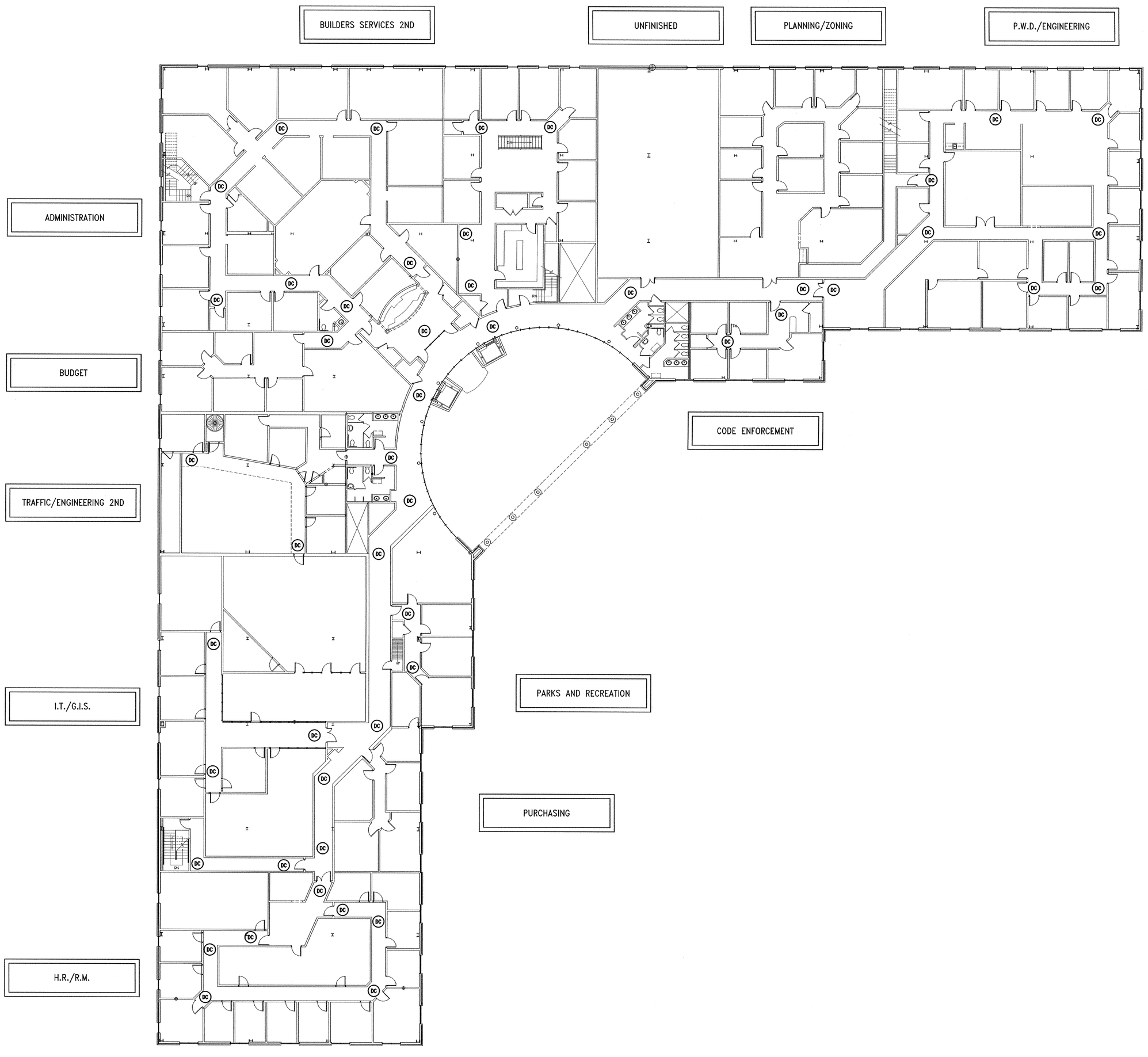
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION
BUILDING

PANAMA CITY, FLORIDA

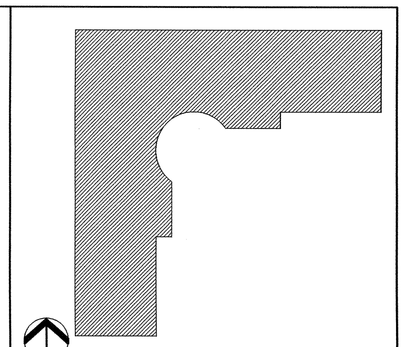
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FIRST FLOOR - OVERALL
CAMERA ROUGH-IN

SHEET NUMBER:
T3.1



SECOND FLOOR - OVERALL - CAMERA ROUGH-IN

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



REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-9832
FAX: (850) 230-3584
Commission Number: 06318

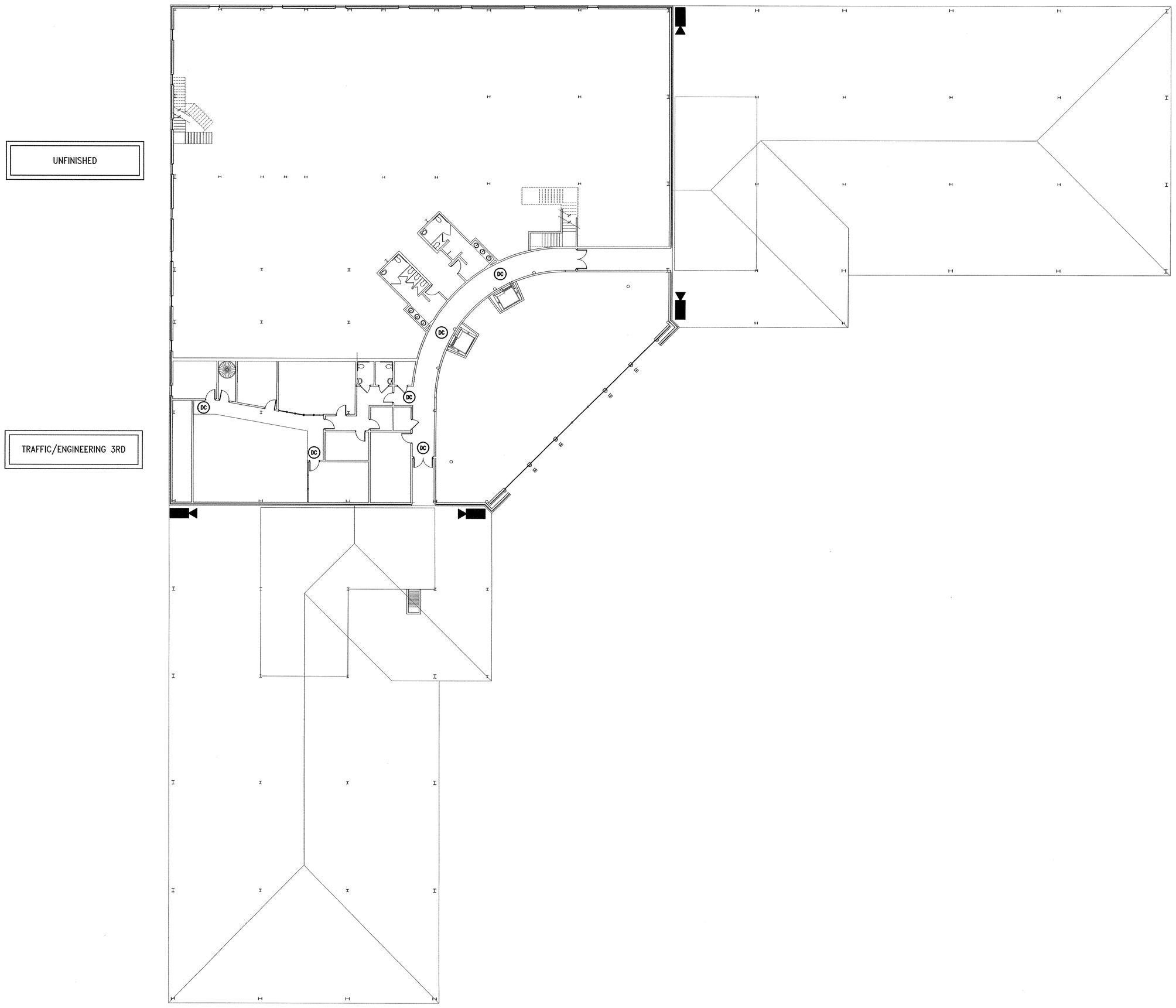
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION
BUILDING

PANAMA CITY, FLORIDA

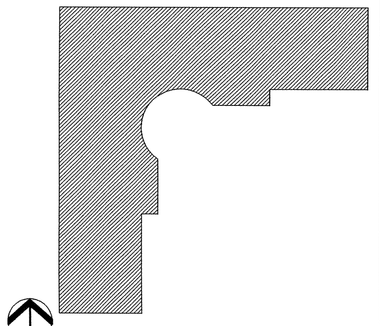
SHEET TITLE:
SECOND FLOOR - OVERALL
CAMERA ROUGH-IN

SHEET NUMBER:
T3.2



THIRD FLOOR - OVERALL - CAMERA ROUGH-IN

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



NORTH KEY PLAN SCALE: N.T.S.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION
BUILDING

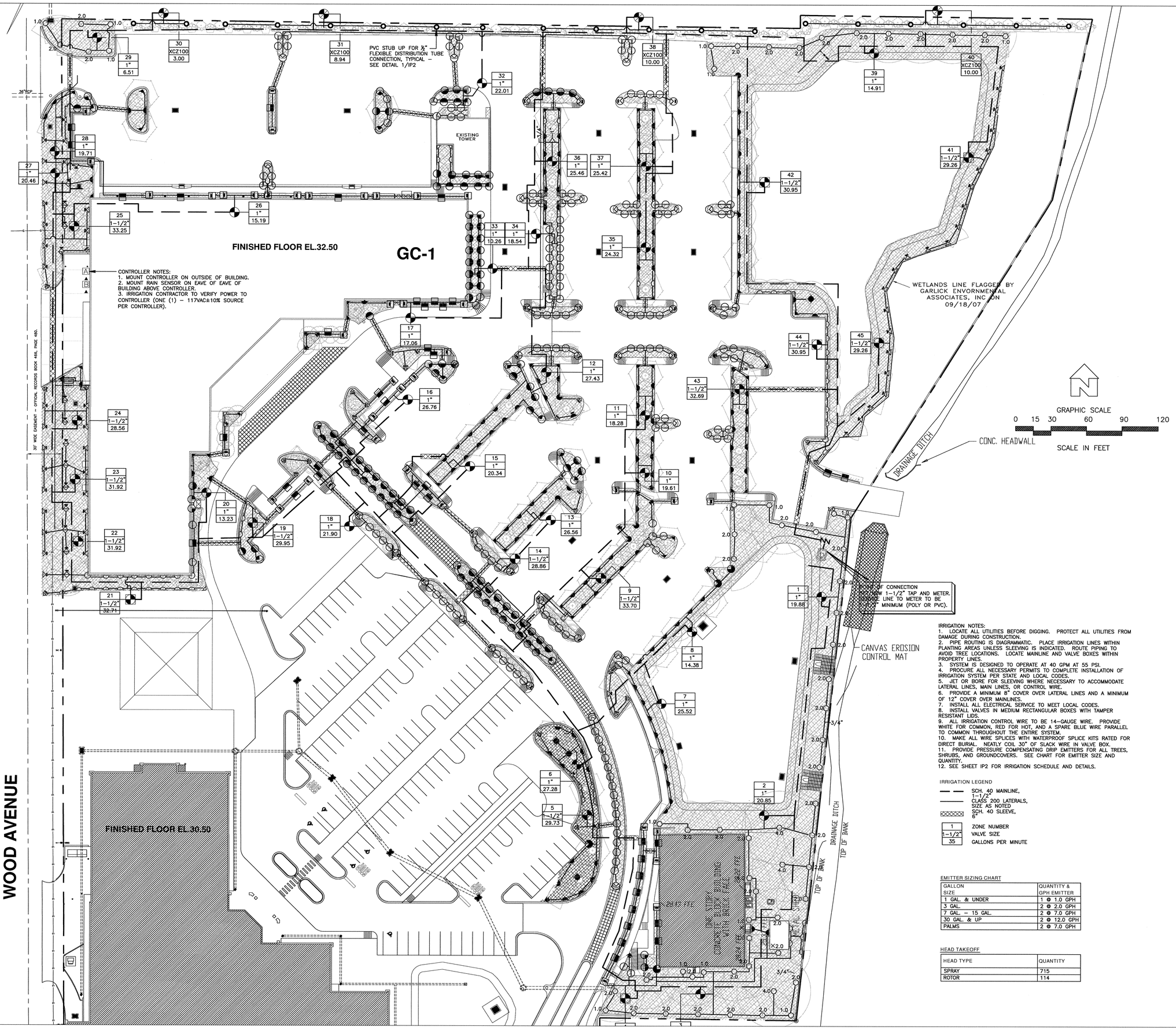
PANAMA CITY, FLORIDA

SHEET TITLE:

THIRD FLOOR - OVERALL
CAMERA ROUGH-IN

SHEET NUMBER:

T3.3



IRRIGATION NOTES:
1. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. PIPE ROUTING IS DIAGRAMMATIC. PLACE IRRIGATION LINES WITHIN PLANTING AREAS UNLESS SLEEVING IS INDICATED. ROUTE PIPING TO AVOID TREE LOCATIONS. LOCATE MAINLINE AND VALVE BOXES WITHIN PROPERTY LINES.
3. SYSTEM IS DESIGNED TO OPERATE AT 40 GPM AT 55 PSI.
4. PROCURE ALL NECESSARY PERMITS TO COMPLETE INSTALLATION OF IRRIGATION SYSTEM PER STATE AND LOCAL CODES.
5. JET OR BORE FOR SLEEVING WHERE NECESSARY TO ACCOMMODATE LATERAL LINES, MAIN LINES, OR CONTROL WIRE.
6. PROVIDE A MINIMUM 8" COVER OVER LATERAL LINES AND A MINIMUM OF 12" COVER OVER MAINLINES.
7. INSTALL ALL ELECTRICAL SERVICE TO MEET LOCAL CODES.
8. INSTALL VALVES IN MEDIUM RECTANGULAR BOXES WITH TAMPER RESISTANT LIDS.
9. ALL IRRIGATION CONTROL WIRE TO BE 14–GAUGE WIRE. PROVIDE WHITE FOR COMMON, RED FOR HOT, AND A SPARE BLUE WIRE PARALLEL TO COMMON THROUGHOUT THE ENTIRE SYSTEM.
10. MAKE ALL WIRE SPLICES WITH WATERPROOF SPLICE KITS RATED FOR DIRECT BURIAL. NEATLY COIL 30" OF SLACK WIRE IN VALVE BOX.
11. PROVIDE PRESSURE COMPENSATING DRIP EMITTERS FOR ALL TREES, SHRUBS, AND GROUNDCOVERS. SEE CHART FOR EMITTER SIZE AND QUANTITY.
12. SEE SHEET IP2 FOR IRRIGATION SCHEDULE AND DETAILS.

IRRIGATION LEGEND

SCH. 40 MAINLINE, 1–1/2"
CLASS 200 LATERALS, SIZE AS NOTED
SCH. 40 SLEEVE, 6"
1 — ZONE NUMBER
1–1/2" — VALVE SIZE
35 — GALLONS PER MINUTE

EMITTER SIZING CHART

GALLON SIZE	QUANTITY & GPH EMITTER
1 GAL. & UNDER	1 @ 1.0 GPH
3 GAL.	2 @ 2.0 GPH
7 GAL. – 15 GAL.	2 @ 7.0 GPH
30 GAL. & UP	2 @ 12.0 GPH
PALMS	2 @ 7.0 GPH

HEAD TAKEOFF

HEAD TYPE	QUANTITY
SPRAY	715
ROTOR	114

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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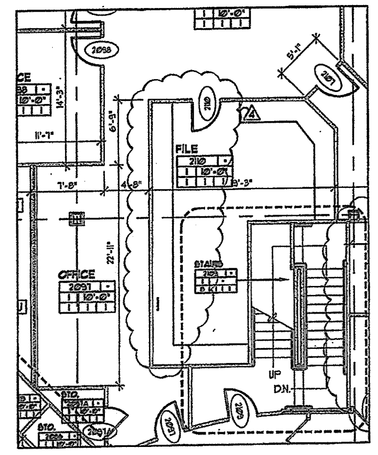
JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:
Alan D. Holt, A.S.L.A.
LANDSCAPE ARCHITECT, PA
736 JENKS AVENUE, PANAMA CITY, FL 32401
TELEPHONE: (850)914-9006 FAX: (850)914-9026 E-MAIL:alan@alandholtasla.com

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
IRRIGATION PERMIT DRAWING

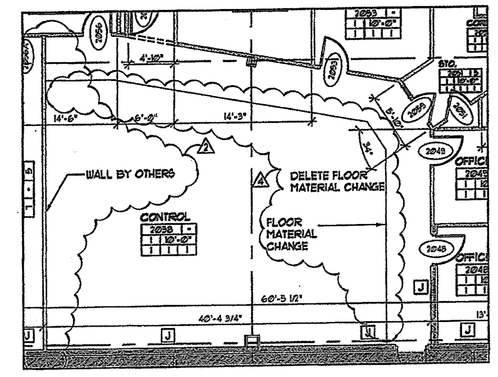
SHEET NUMBER:
IP1



JRA Architects, Inc.
26-09 Thomas Dr, Suite 103
Panama City, Florida 32409
PHONE: (850) 236-9932
FAX: (850) 230-3564

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

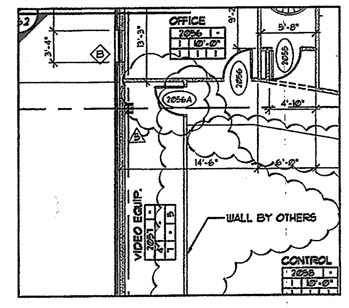
DATE: 9/20/00 | ASI: 16
DRAWN: BC
APPROVED DOCUMENTS: A12A
ISSUED W/ CONSULTANTS:
JRA PROJECT NO: 0631B | SHEET NO: SK1



JRA Architects, Inc.
26-09 Thomas Dr, Suite 103
Panama City, Florida 32409
PHONE: (850) 236-9932
FAX: (850) 230-3564

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

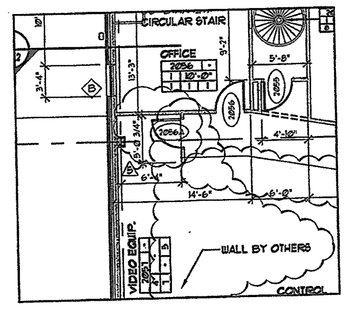
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APPROVED DOCUMENTS: A12A
ISSUED W/ CONSULTANTS:
JRA PROJECT NO: 0631B | SHEET NO: SK7



JRA Architects, Inc.
26-09 Thomas Dr, Suite 103
Panama City, Florida 32409
PHONE: (850) 236-9932
FAX: (850) 230-3564

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

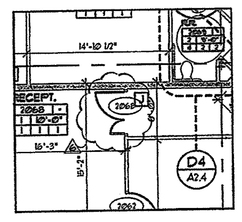
DATE: 11/28/00 | ASI: 33R
DRAWN: BC
APPROVED DOCUMENTS: A12A
ISSUED W/ CONSULTANTS:
JRA PROJECT NO: 0631B | SHEET NO: SK1



JRA Architects, Inc.
26-09 Thomas Dr, Suite 103
Panama City, Florida 32409
PHONE: (850) 236-9932
FAX: (850) 230-3564

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

DATE: 11/28/00 | ASI: 33R
DRAWN: BC
APPROVED DOCUMENTS: A12A
ISSUED W/ CONSULTANTS:
JRA PROJECT NO: 0631B | SHEET NO: SK3

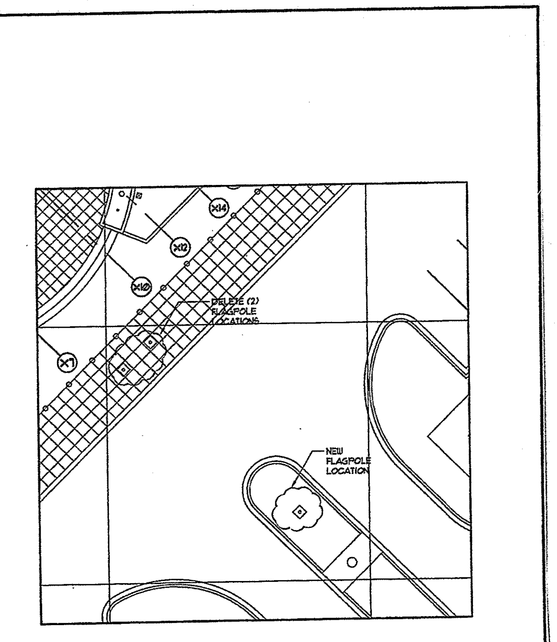


JRA Architects, Inc.
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Panama City, Florida 32409
PHONE: (850) 236-9932
FAX: (850) 230-3564

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

DATE: 12/12/00 | ASI: 36
DRAWN: BC
APPROVED DOCUMENTS: A12A
ISSUED W/ CONSULTANTS:
JRA PROJECT NO: 0631B | SHEET NO: SK4

REVISIONS TO SHEET A1.2A



JRA Architects, Inc.
2609 Thomas Dr, Suite 102, Panama City, Florida 32408
PHONE: (850) 234-5502 FAX: (850) 230-3584

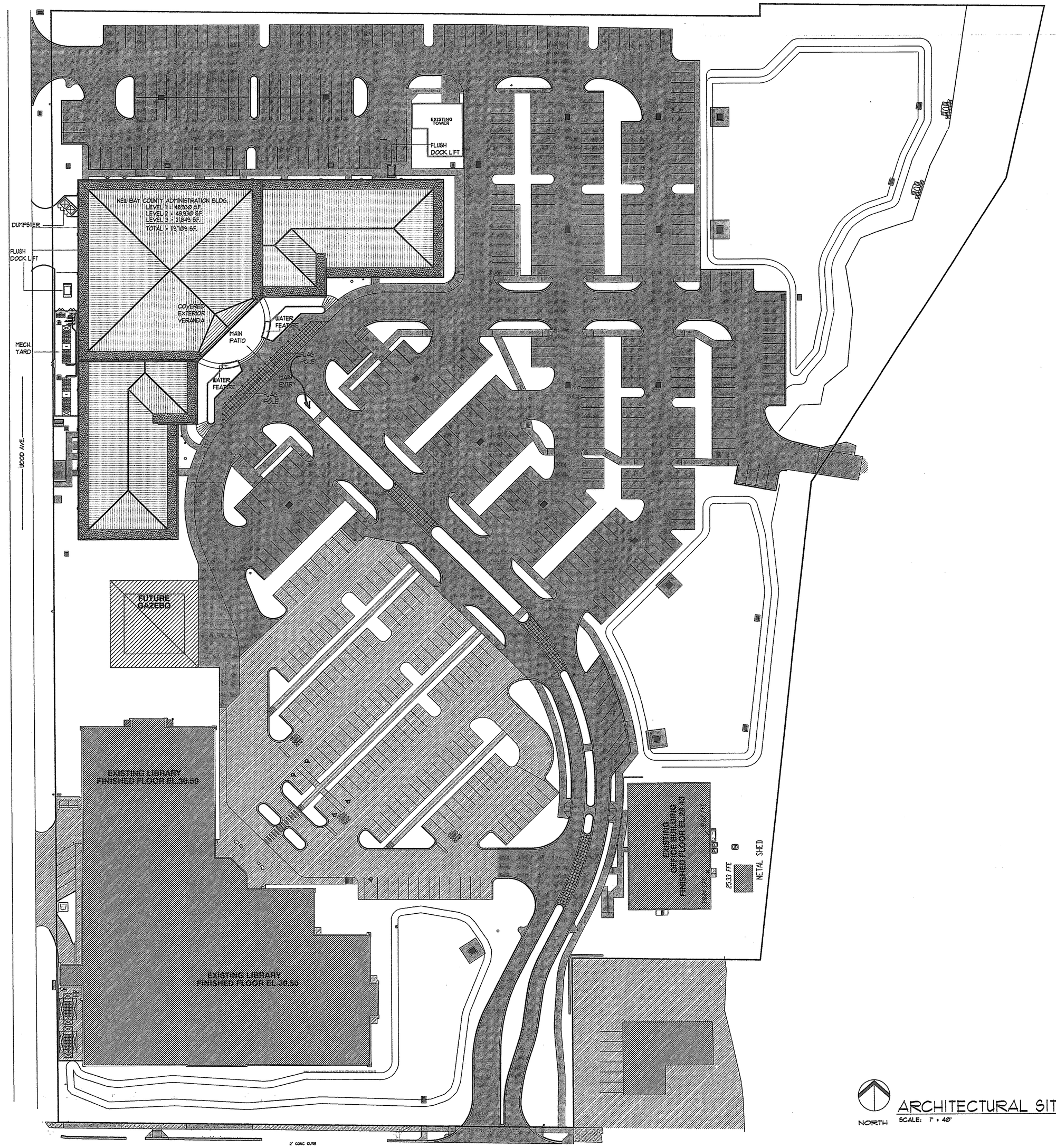
PROJECT:
BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

DATE: 10/24/05
DRAWN: EC
APPROVED: DOCUMENTATION AH
ISSUED IN CONJUNCTION WITH:

RFI: 63

JRA PROJECT NO. | SHEET NO.
0631B | EK1

1 ELEVATE ADAC FIRST FLOOR ZONE C FLOOR PLANNING



NORTH

ARCHITECTURAL SITE PLAN

SCALE: 1" = 40'

GENERAL NOTES

1. PROVIDE CONTINUOUS EXP. JT. MATERIAL BETWEEN EDGE OF CONC. SLAB AND ANY ADJACENT BUILDING WALLS.
2. ALL CHAINLINK FENCE SHALL MEET D.O.E. SREF REQUIREMENTS.

SITE KEYNOTES

1. 8'-0" HIGH STEEL FENCE & GATE - PROVIDE BFC INC. GUARDIAN FENCE W/ GALVGUARD-1 & POLYURETHANE FINISH, OR APPROVED EQUAL. PROVIDE SWING GATES WHERE SHOWN.
2. STAIRS, RET. WALL AND GAURDRAILS, SEE SHEET A12
3. GREASE TRAPS - COORDINATE W/ PLUMBING
4. CONC PAD W/ WWF. & THICKENED EDGE, THICKEN SLAB AT EQUIPMENT POINT LOADS - COORDINATE W/ MECHANICAL.
5. CONCRETE PAD & FENCE ENCLOSURE FOR CONDENSER UNIT. COORDINATE W/ MECH. & FOOD SERVICE DRAWINGS.
6. CONC. STOOP W/ WWF.& THICKENED EDGE.
7. 6'-0" HIGH CHAINLINK FENCE PER SREF STANDARDS VERIFY LOCATION, NUMBER & SIZE OF GATES W/ OWNER
8. REINFORCE CONCRETE FOR TRUCK TRAFFIC & PROVIDE RAISED CANOPY PER DET. 15/A6.3
9. PROVIDE APPROX. 210 FT. OF RAIL TYPE 2 IN SECTIONS SIZED AND SPACED PER OWNER'S DIRECTION.
10. PROVIDE APPROX. 280 FT. OF RAIL TYPE 2 IN SECTIONS SIZED AND SPACED PER OWNER'S DIRECTION.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS			03-03-08

JRA Architects, Inc.
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PHONE: (850) 235-5832
FAX: (850) 230-3564
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

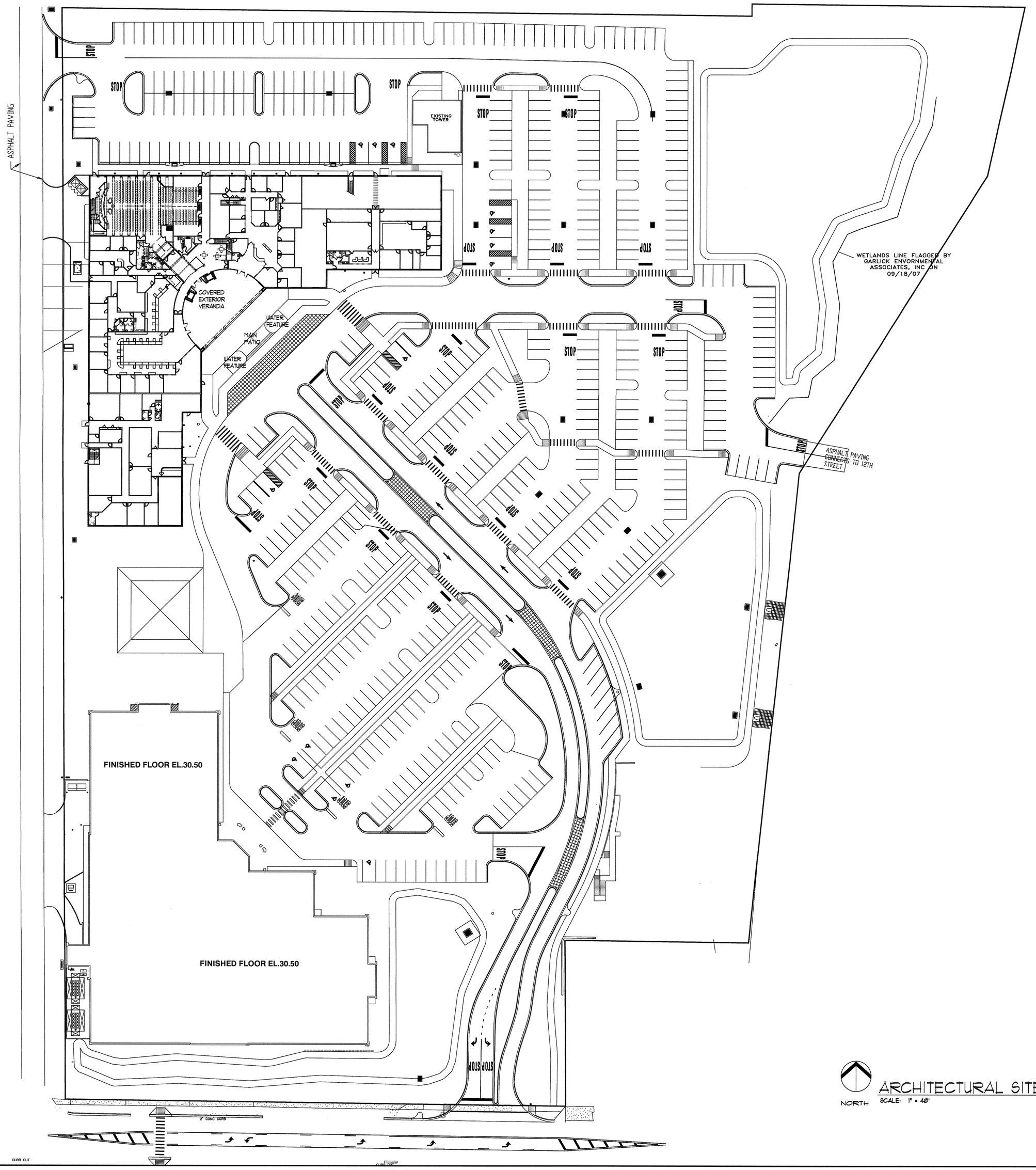
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ARCHITECTURAL SITE PLAN

SHEET NUMBER:

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NORTH

ARCHITECTURAL SITE PLAN

SCALE: 1" = 40'

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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2805 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

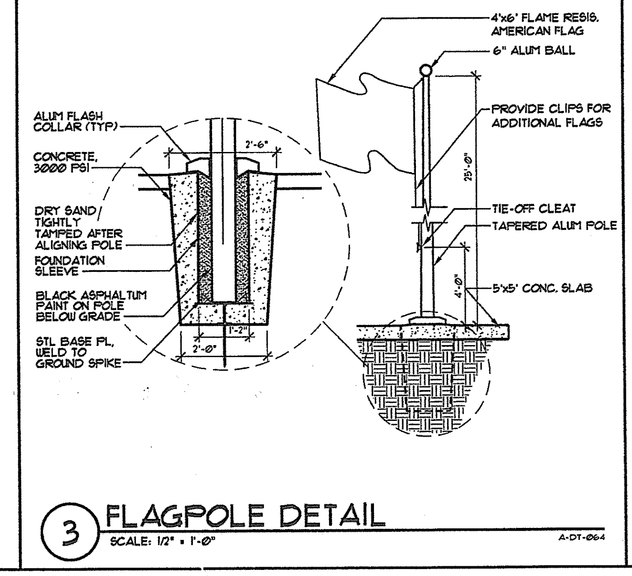
PANAMA CITY, FLORIDA

SHEET TITLE:

ARCHITECTURAL SITE PLAN

SHEET NUMBER:

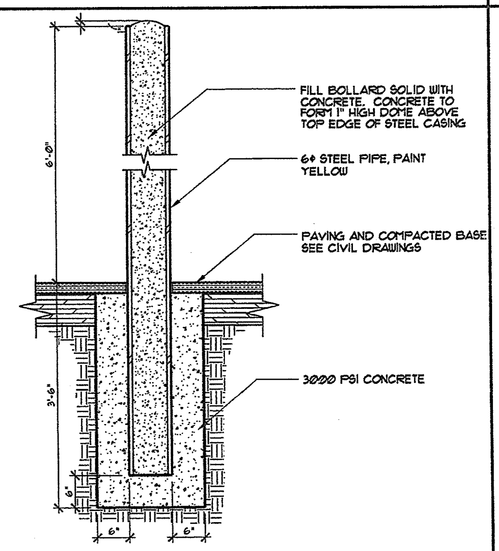
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3 FLAGPOLE DETAIL

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

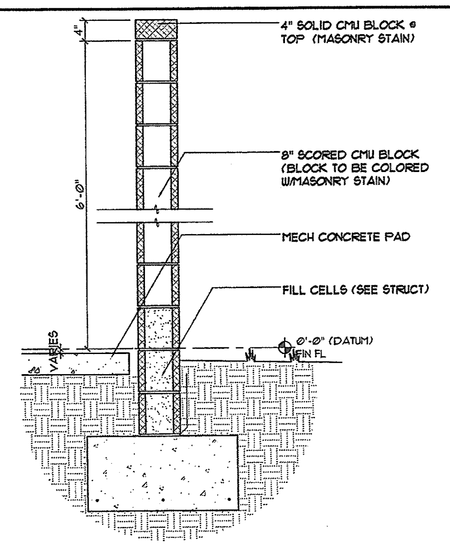
A-DT-004



2 BOLLARD DETAIL

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

A-DT-003



1 SCREEN WALL DETAIL

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

A-DT-002

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05/05/06
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-28-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

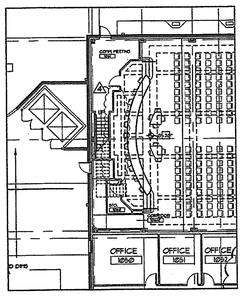
SITE DETAILS

SHEET NUMBER:

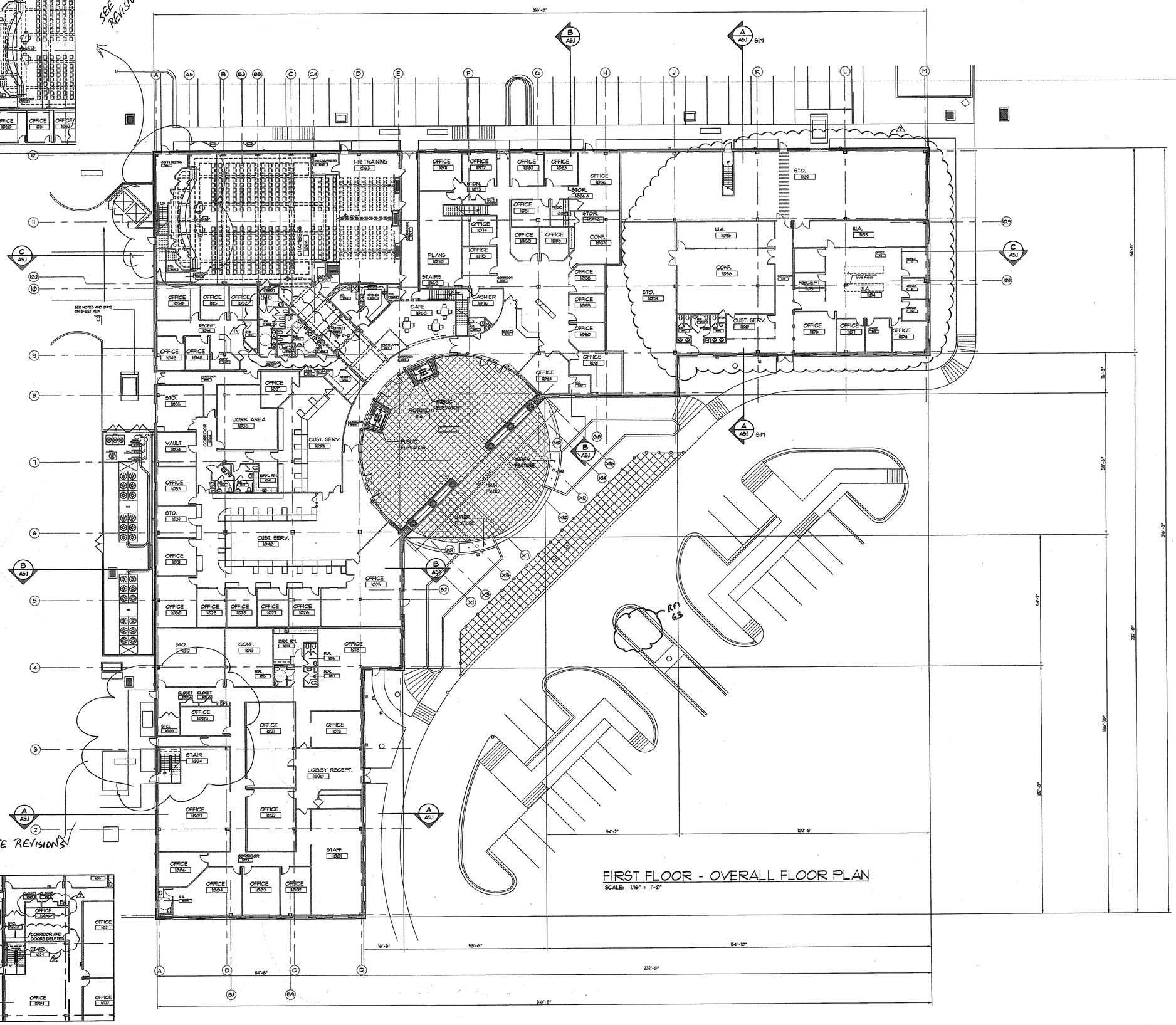
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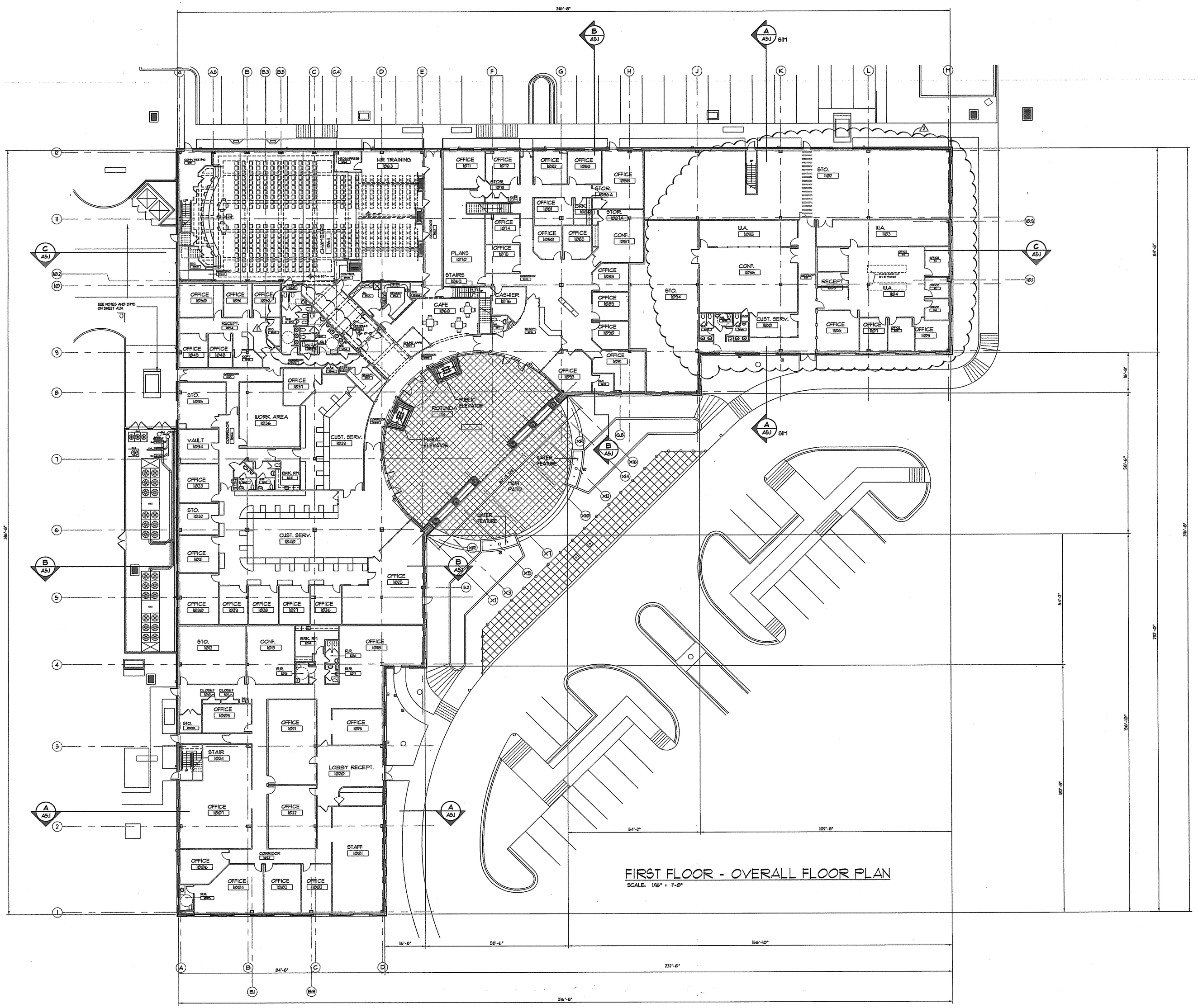
\\fltserver\jobs\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A0 - SITE PLANS\A0.2 SITE DETAILS.dwg, 3/18/2008 3:03:00 PM, cjackson

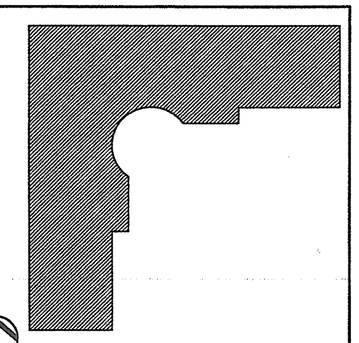
A51 # 16R 9/26/08



SEE REVISIONS


336'-8"
HR TRAINING 1063
OFFICE 1011
OFFICE 1012
OFFICE 1082
OFFICE 1083
OFFICE 1084
STOR. 1013
STOR. 1086A
STOR. 1086
STOR. 1086A
OFFICE 1081
OFFICE 1014
OFFICE 1080
OFFICE 1085
CONF. 1087
OFFICE 1015
PLANS 1010
STAIRS 1069
OFFICE 1088
OFFICE 1089
OFFICE 1090
OFFICE 1091
OFFICE 1092
OFFICE 1093
CAFE 1068
CASHIER 1016
OFFICE 1049
OFFICE 1046
OFFICE 1035
WORK AREA 1036
CUST. SERV. 1039
VAULT 1034
OFFICE 1033
STO. 1032
CUST. SERV. 1040
OFFICE 1031
OFFICE 1030
OFFICE 1075
OFFICE 1028
OFFICE 1027
OFFICE 1026
OFFICE 1025
STO. 1012
CONF. 1013
RR. 1016
RR. 1015
RR. 1011
OFFICE 1018
CLOSET 1019A
CLOSET 1019
OFFICE 1020
STO. 1020
OFFICE 1021
OFFICE 1078
STAIR 1024
LOBBY RECEPT. 1010
OFFICE 1051
OFFICE 1022
STAFF 1001
OFFICE 1006
OFFICE 1004
OFFICE 1003
OFFICE 1002
CORRIDOR 1033
RR. 1005
CHECK-IN ELEVATOR
PUBLIC ELEVATOR
MAIN PATIO
WATER FEATURE
WATER FEATURE
STO. 1082
W.A. 1055
W.A. 1103
CONF. 1056
RECEPT. 1057
W.A. 1104
STO. 1054
CUST. SERV. 1100
OFFICE 1106
OFFICE 1121
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OFFICE 1071
OFFICE 1072
OFFICE 1073
OFFICE





NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS & RISERS

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME

SPACE No	REMARKS
	CLG / CLG HT
	FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GUSY NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	A51 #8 - CODE REVIEW			5/30/08
2	A51 #9 - OWNER REQUESTED PLAN CHANGES			6/11/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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PHONE: (850) 235-5832
FAX: (850) 230-3584
Commission Number: 05318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRST FLOOR OVERALL FLOOR PLAN

SHEET NUMBER:
A1.1

ADMIN. CHAMBERS
6,072 S.F. THIS FLOOR
8,840 S.F. ABOVE

O.L. = 511

VETERANS AFFAIRS
1,476 S.F.

O.L. = 14

TAX COLLECTOR
9,257 S.F.

O.L. = 193

PROPERTY APPRAISER
10,273 S.F.

O.L. = 122

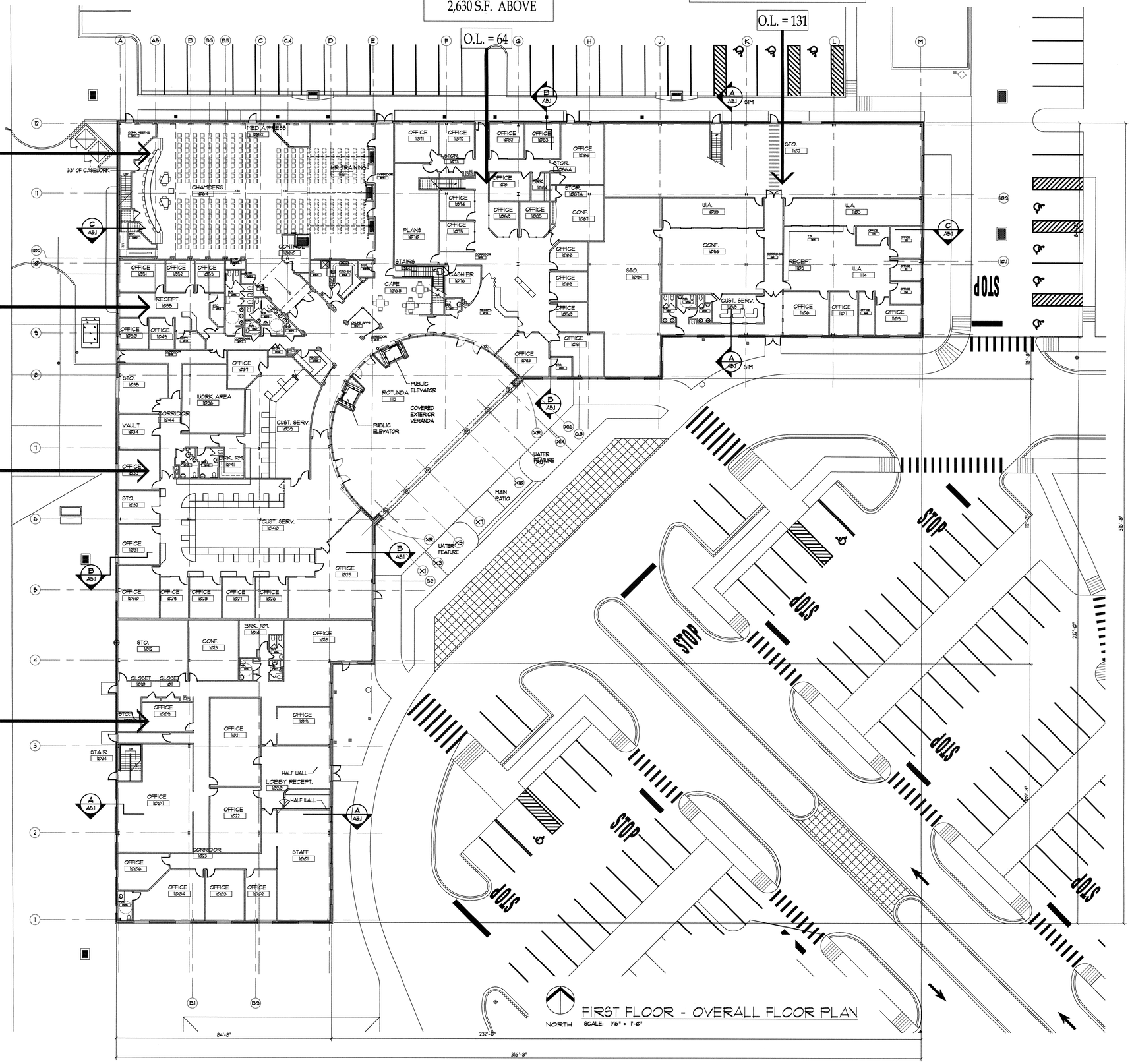
BUILDER SERVICES
6,949 S.F. THIS FLOOR
2,630 S.F. ABOVE

O.L. = 64

SUPERVISOR OF ELECTIONS
11,252 S.F.

O.L. = 131

TOWER



NORTH FIRST FLOOR - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH KEY PLAN
SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME
SPACE No. — REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN
2. FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
"75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

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Commission Number: 06318

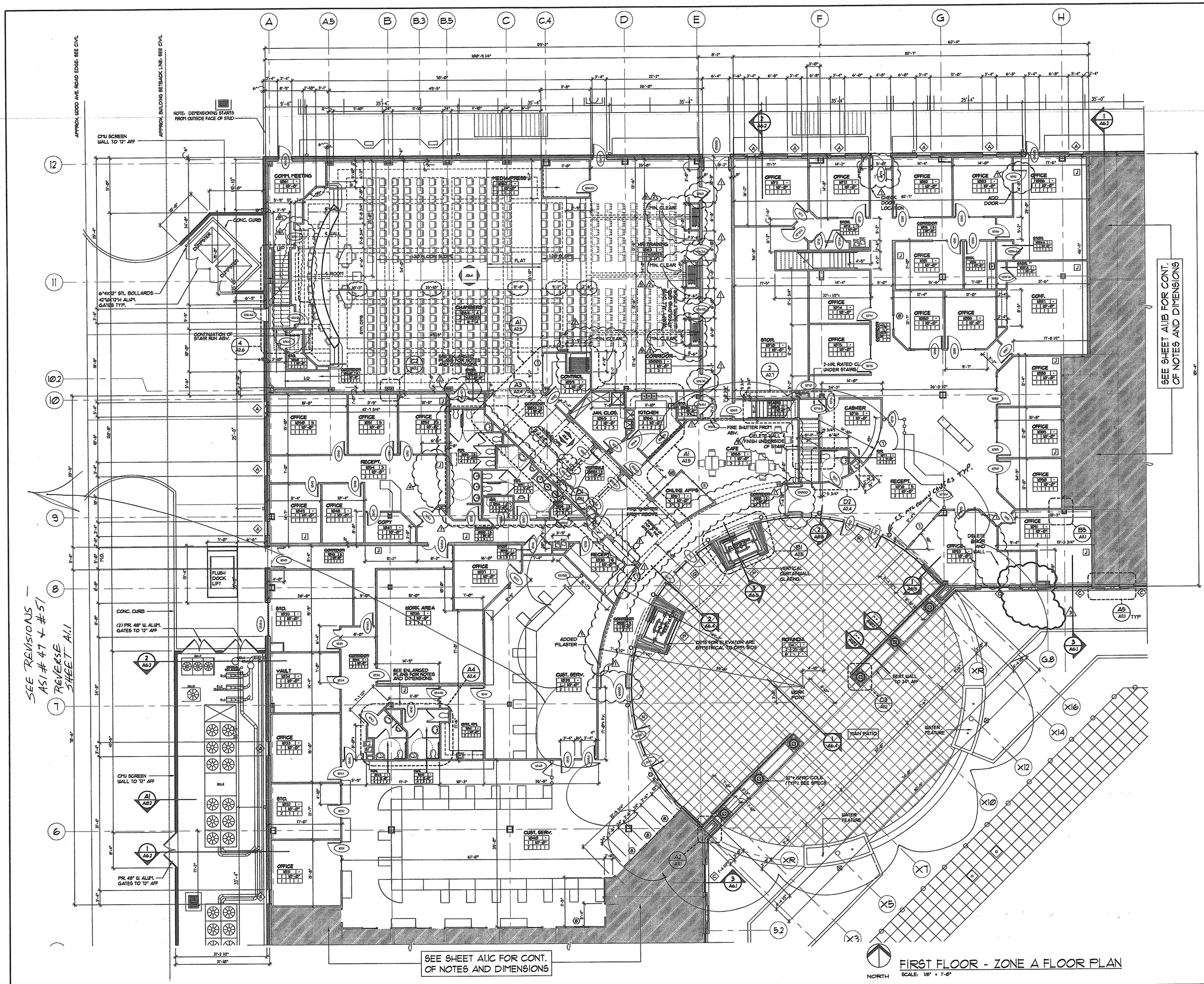
CONSULTANTS:

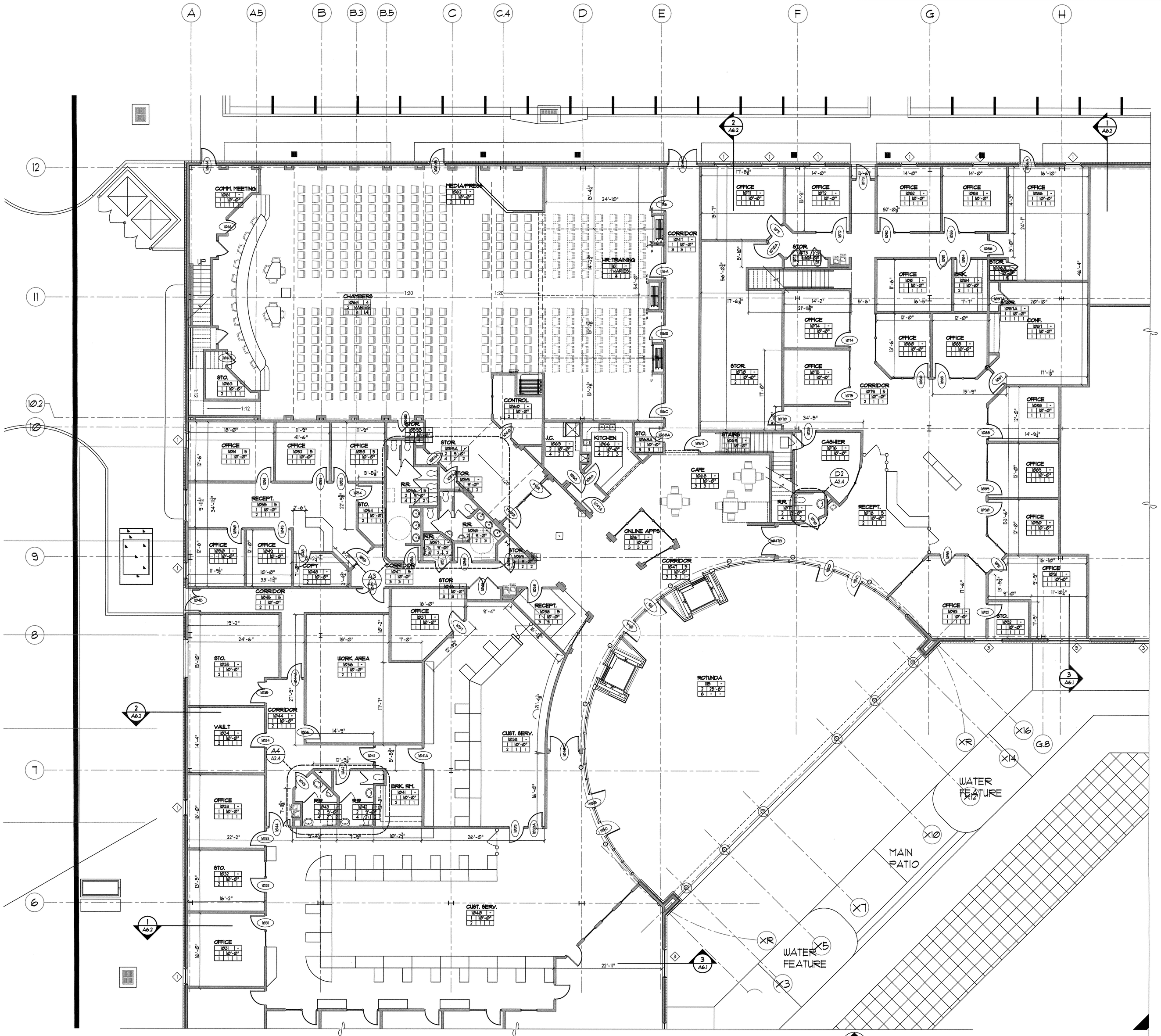
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRST FLOOR OVERALL
FLOOR PLAN

SHEET NUMBER:
A1.1


APPROX. WOOD AVE. ROAD EDGE; SEE CIVIL
APPROX. BUILDING SETBACK LINE; SEE CIVIL
NOTE: DIMENSIONING STARTS FROM OUTSIDE FACE OF STUD
CMU SCREEN WALL TO 12' AFF
CONC. CURB
DUMPSTER
6"Ø X 12" STL BOLLARDS 42"ON CENTER 12'H ALUM. GATES TYP.
CONTINUATION OF STAIR RUN ABV.
SEE SHEET A1.1B FOR CONT. OF NOTES AND DIMENSIONS
SEE REVISIONS - ASI #47 + #51 REVERSE SHEET A1.1
SEE SHEET A1.1C FOR CONT. OF NOTES AND DIMENSIONS
COMPL MEETING
MEDIA/PRESS
MR. TRAINING
CHAMBERS
CONTROL
CORRIDOR
KITCHEN
JAN. CLOS.
CAFE
ONLINE APPS
RECEPT.
OFFICE
COPY
VESTIBULE
STOR.
CASHIER
2-HR RATED CL UNDER STAIRS
FIRE SHUTTER PACH ABV.
DELETE WALL & FINISH UNDERSIDE OF STAIR
ADD DOOR
CHECK DOOR LOCATION
DELETE DOOR AND WALL
FLUSH DOCK LIFT
WORK AREA
VAULT
CUST. SERV.
SEE ENLARGED PLANS FOR NOTES AND DIMENSIONS.
ADDED PILASTER
DIMS FOR ELEVATOR ARE SYMETRICAL TO CORP. SIDE
ROTUNDA
VERTICAL CURTAINWALL GLAZING
SEAT WALL TO 24" AFF
WORK POINT
RAIN PATIO
WATER FEATURE
32"Ø ARRC COLS (TYP.) SEE SPECS
CONC. CURB
(2) PR. 48" W. ALUM. GATES TO 12" AFF
PR. 48" W. ALUM. GATES TO 12" AFF
CMU SCREEN WALL TO 12" AFF
FLAT
1/2" SLOPE
1/2" SLOPE
SLOPE
SLOPE


A
A.5
B
B.3
B.5
C
C.4
D
E
F
G
H
12
11
10.2
10
9
8
7
6
COMM. MEETING
1061
MEDIA/PRESS
1062
CHAMBERS
1064
HR TRAINING
1186
CORRIDOR
1041
STOR.
1063
CONTROL
1066
J.C.
1065
KITCHEN
1066
STO.
1066A
STAIRS
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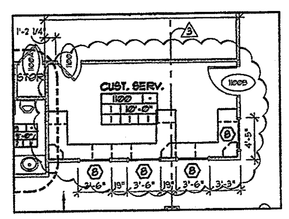
SEE SHEET A1.1A FOR CONT. OF NOTES AND DIMENSIONS

SEE SHEET A1.1A FOR CONT. OF NOTES AND DIMENSIONS

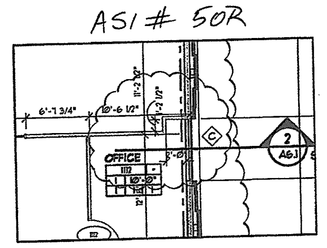
SEE REVISIONS

SEE REVISIONS

ASI # 48



ASI # 50R



NORTH

FIRST FLOOR - ZONE B FLOOR PLAN

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

NORTH

KEY PLAN

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS & RISERS

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

FINISHES KEY

SPACE NAME
SPACE No. — REMARKS
— CLG / CLG HT
— FLR / BASE / WALL

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 9 - OWNER REQUESTED PLAN CHANGES			05-11-09

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	05-09-07
DD OWNER REVIEW	-	-	08-23-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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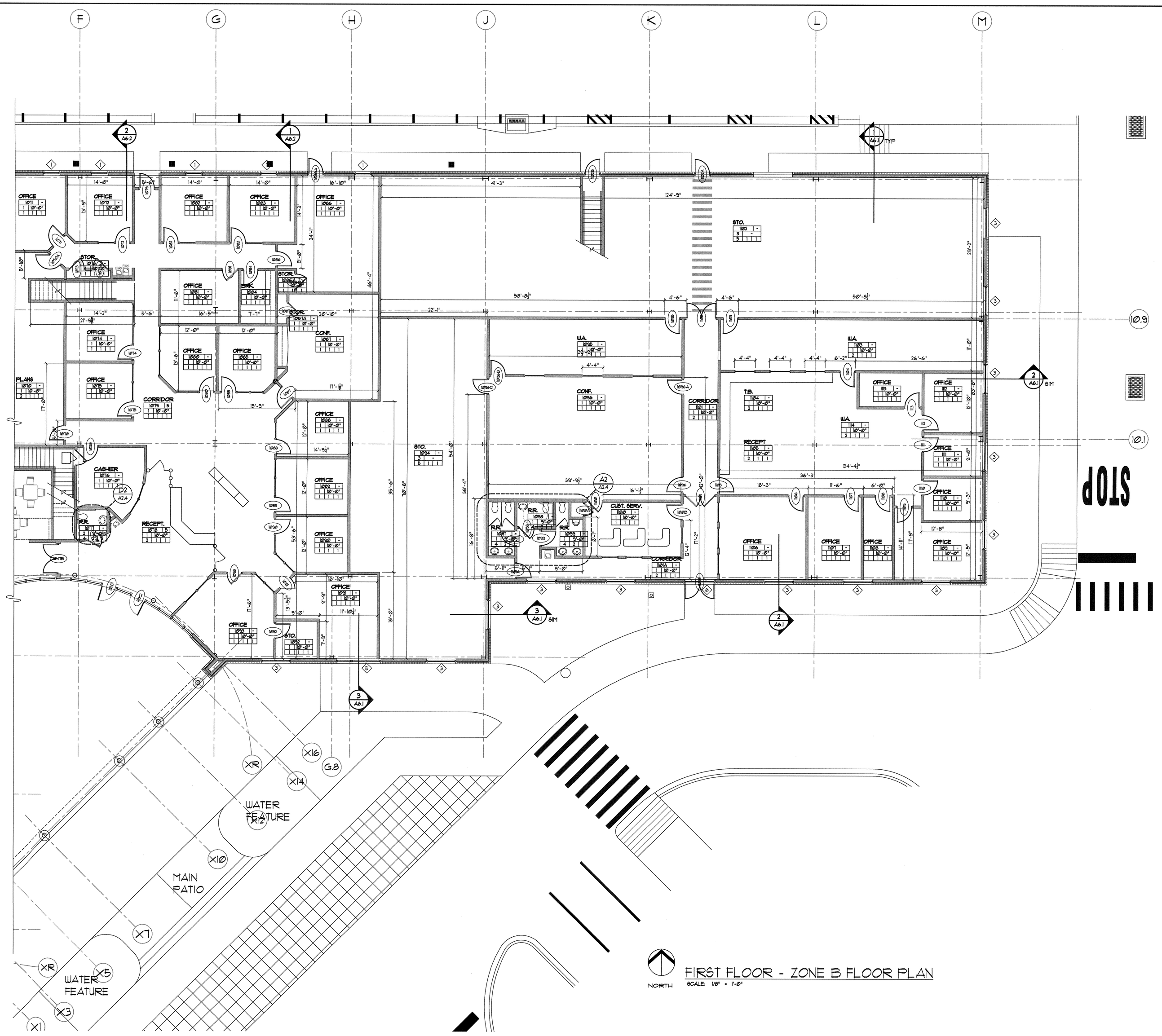
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

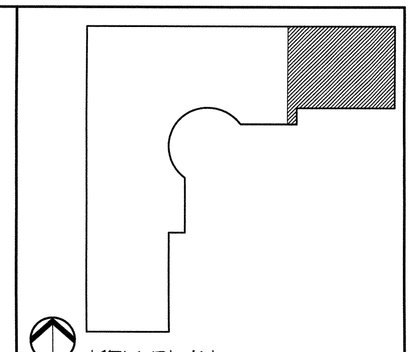
SHEET TITLE:
FIRST FLOOR ZONE B FLOOR PLAN

SHEET NUMBER:
A1.1B



FIRST FLOOR - ZONE B FLOOR PLAN

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



KEY PLAN

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME

SPACE NO — REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GLUE/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GYP.B PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
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PHONE: (850) 236-8832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B FLOOR PLAN

SHEET NUMBER:

A1.1B

SEE SHEET A1.1A FOR CONT. OF NOTES AND DIMENSIONS

A51 #51

SEE REVISIONS

MAIN PATIO

WATER FEATURE

APPROX. WOOD AVE. ROAD EDGE: SEE CIVIL

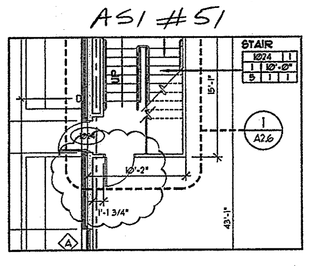
APPROX. BUILDING SETBACK LINE: SEE CIVIL

CORRIDOR AND DOORS DELETED

HALF WALL

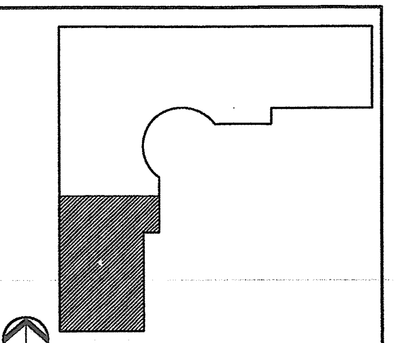
SEE REVISIONS

A51 #51



FIRST FLOOR - ZONE C FLOOR PLAN

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



KEY PLAN

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS, RISERS, & LANDINGS

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME

SPACE No. — REMARKS — CLG / CLG HT — FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING. PROVIDE CONT. 3½" SOUND BATTS IN GWB PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	----	CJ	DB	8/14/08
2	AS1 # 21 - PLAN CHANGES			9/5/08
3	AS1 # 34 - DOOR ADDITION TO TAX COLLECTOR			11/21/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2905 THOMAS DRIVE SUITE 105
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PHONE: (850) 235-9832
FAX: (850) 230-3594
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C FLOOR PLAN

SHEET NUMBER:

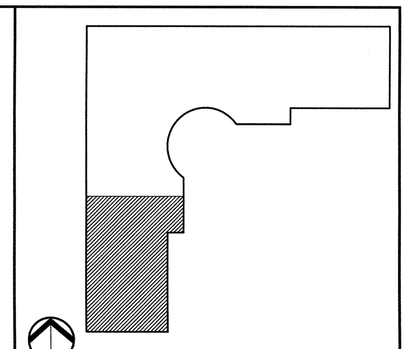
A1.1C



NORTH

FIRST FLOOR - ZONE C FLOOR PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME

SPACE No.	REMARKS
	CLG / CLG HT
	FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

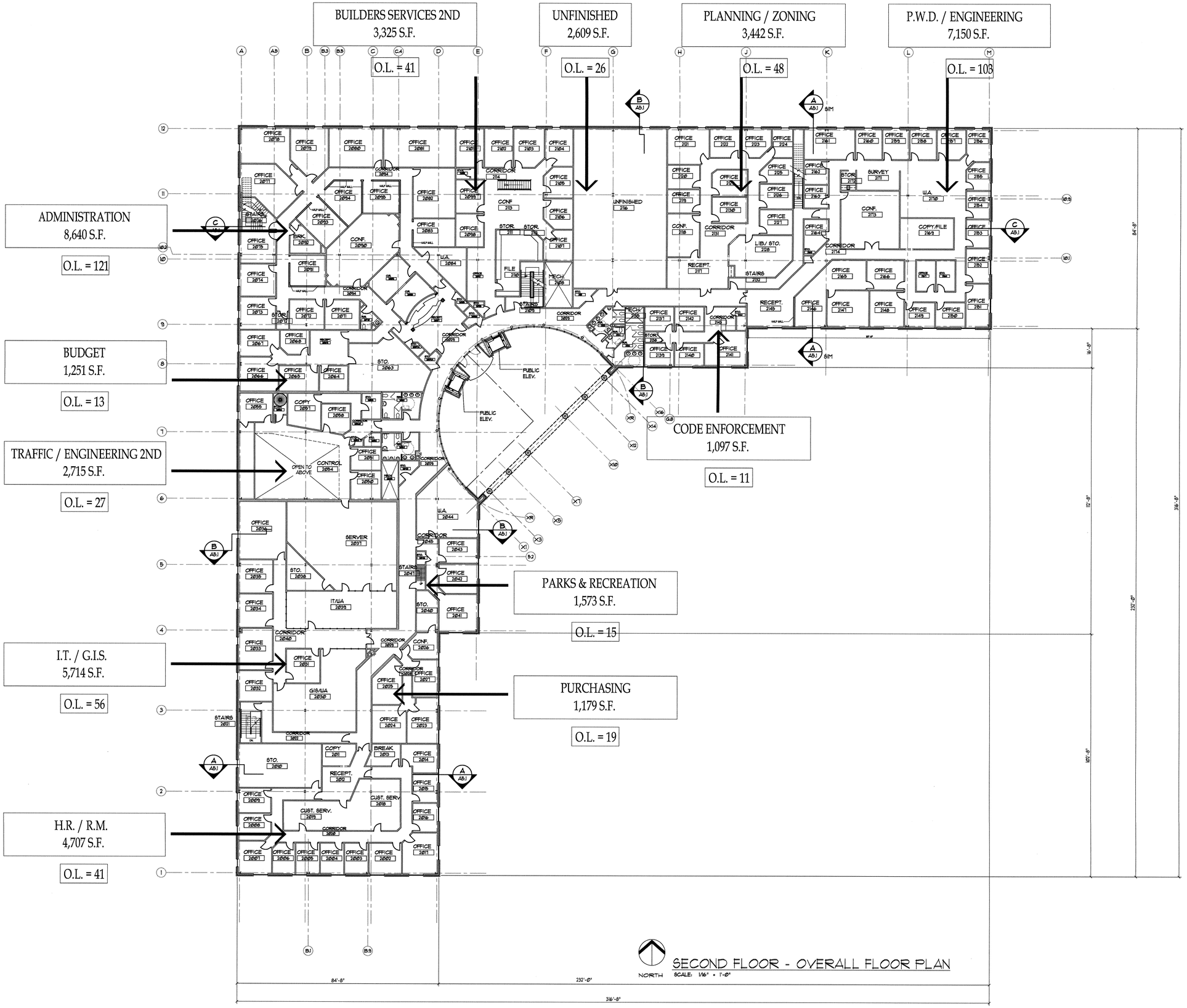
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C FLOOR PLAN

SHEET NUMBER:

A1.1C



NORTH SECOND FLOOR - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME
SPACE NO — REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GUEB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN
2. FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING. PROVIDE CONT. 3½" SOUND BATTS IN GYP. PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2805 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

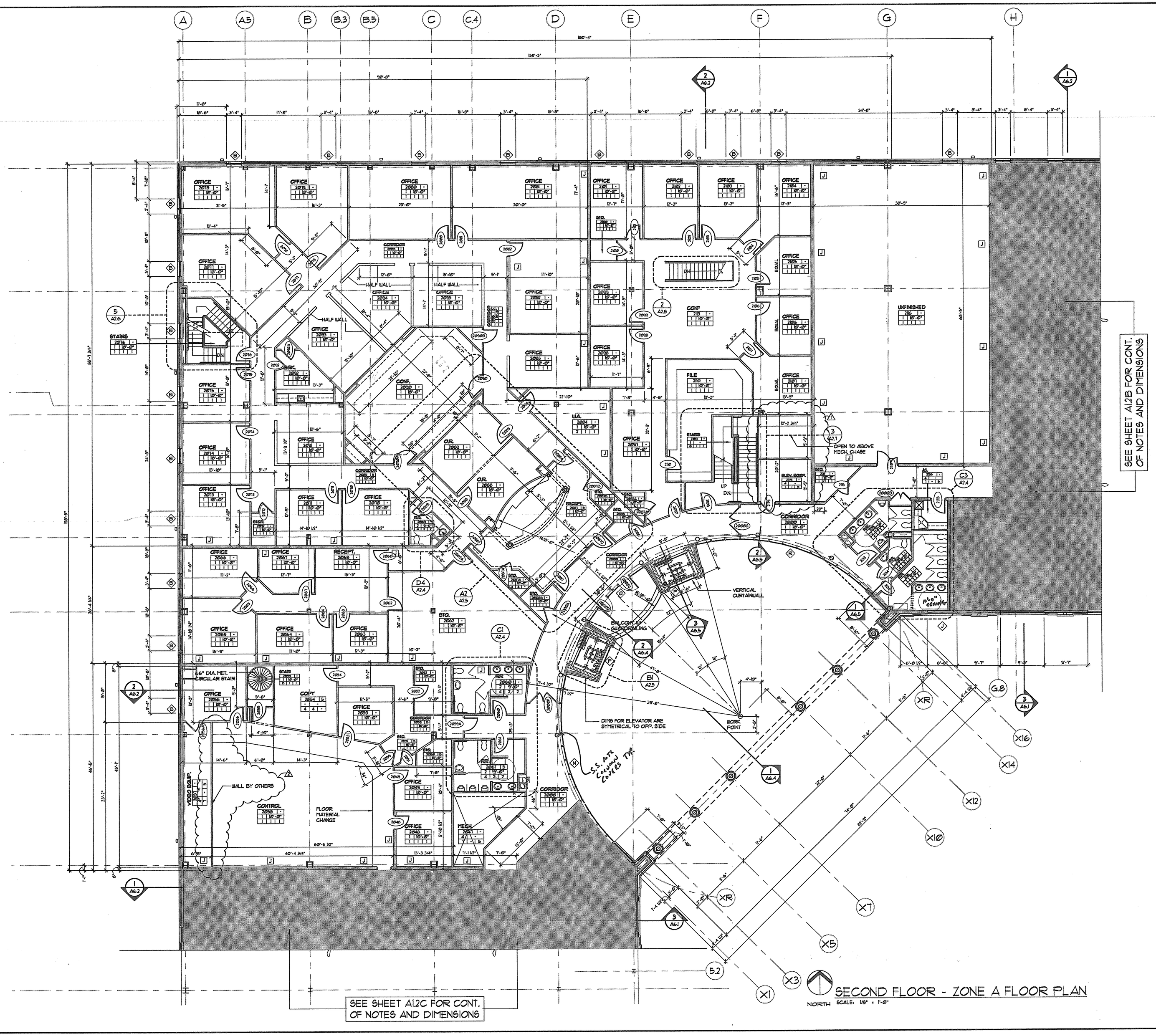
CONSULTANTS:

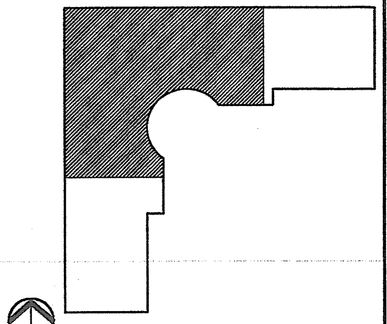
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR OVERALL FLOOR PLAN

SHEET NUMBER:
A1.2





NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS & RISERS

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME

SPACE No	REMARKS
	CLG / CLG HT
	FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GWB PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

SEE REVISIONS, REVERSE OF SHEET A1.1C

39x67

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	AS1 # 12 - ELEVATOR ROOM RELOCATION			8/01/08
2	AS1 # 14 - TRAFFIC / ENGINEERING REVISIONS			8/25/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
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FAX: (850) 230-3554
Commission Number: 06316

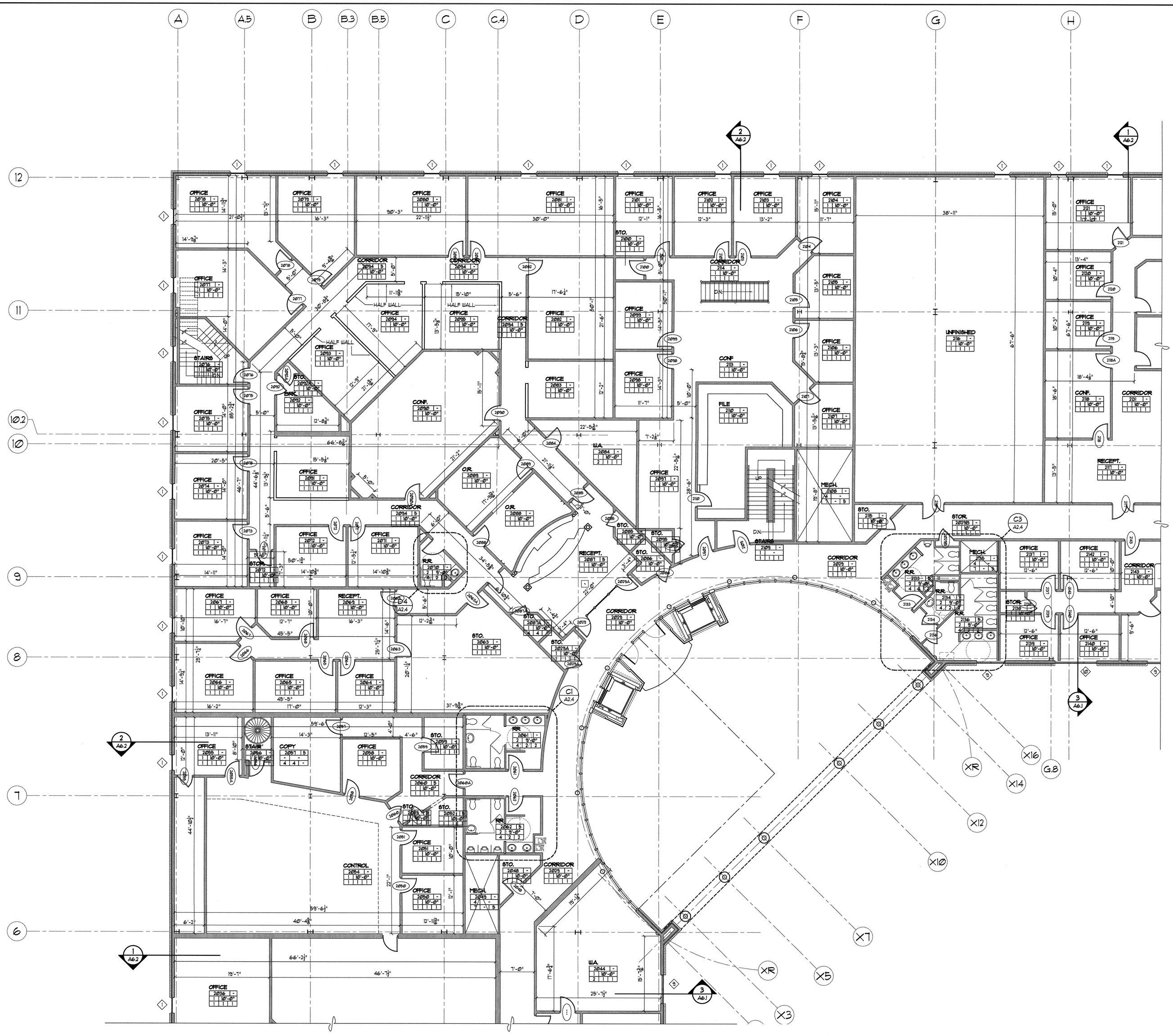
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ZONE A FLOOR PLAN

SHEET NUMBER:
A1.2A



KEY PLAN

NORTH

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME		
SPACE NO		REMARKS
		CLG / CLG HT
		FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN
2. FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

SECOND FLOOR - ZONE A FLOOR PLAN

NORTH

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE A FLOOR PLAN

SHEET NUMBER:

A1.2A

SEE SHEET A1.2A FOR CONT. OF NOTES AND DIMENSIONS

SEE REVISION

A51 #36
12/12/08

A51 #50R

A51 #50R

SEE REVISIONS

SEE REVISIONS

NORTH

SECOND FLOOR - ZONE B FLOOR PLAN

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

NORTH

KEY PLAN

SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS, RISERS, & LANDINGS

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

FINISHES KEY

SPACE NAME
SPACE No. — REMARKS
CLG / CLG HT
FLR / BASE / WALL

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	----	CJ	DB	5/14/08
2	AS1 # 16 - OWNER REQUESTED PLAN CHANGES			9/08/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	05-25-07
DD OWNER REVIEW	-	-	08-23-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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PHONE: (850) 235-5832
FAX: (850) 230-3554
Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

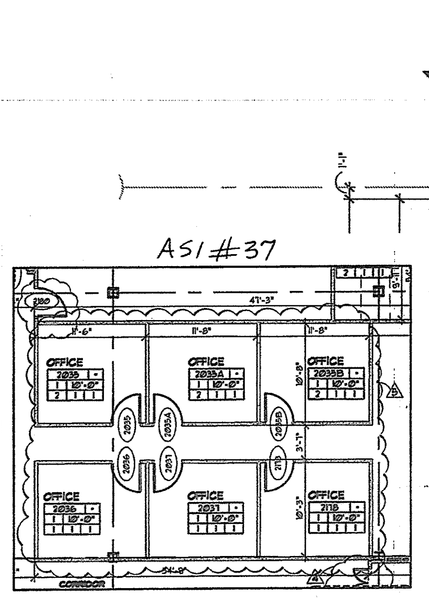
PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ZONE B FLOOR PLAN

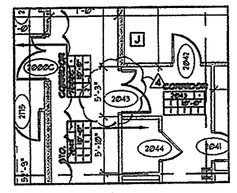
SHEET NUMBER:
A1.2B


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10.9
10.1
2 A6.2
1 A6.2
1 A6.1 TYP
2 A6.1 SIM
3 A6.1 SIM
2 A6.1
3 A6.1
C3 A2.4
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OFFICE 2105
OFFICE 2106
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UNFINISHED 2116
MECH. 2108
STO. 2115
STAIRS 2109
CORRIDOR 2078
OFFICE 2151
MECH. 2156
STOR. 2158
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CORRIDOR 2143
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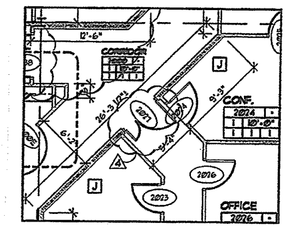
SEE SHEET A1.2A FOR CONT. OF NOTES AND DIMENSIONS



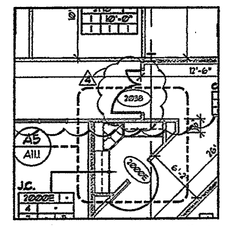
SEE REVISIONS



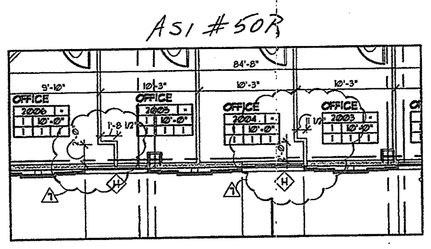
See Revision



See Revision



See Revision

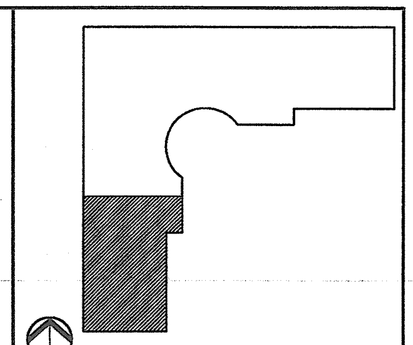


SEE REVISIONS

NORTH

SECOND FLOOR - ZONE C FLOOR PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS, RISERS, & LANDINGS

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME	
SPACE No.	REMARKS
	CLG / CLG HT
	FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 9 - OWNER REQUESTED PLAN CHANGES			06-11-08
2	----	CJ	DB	8/14/08
3	ASI # 9R1 - PLAN CHANGES			11/13/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	05-25-07
DD OWNER REVIEW	-	-	06-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2805 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-5832
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Commission Number: 06318

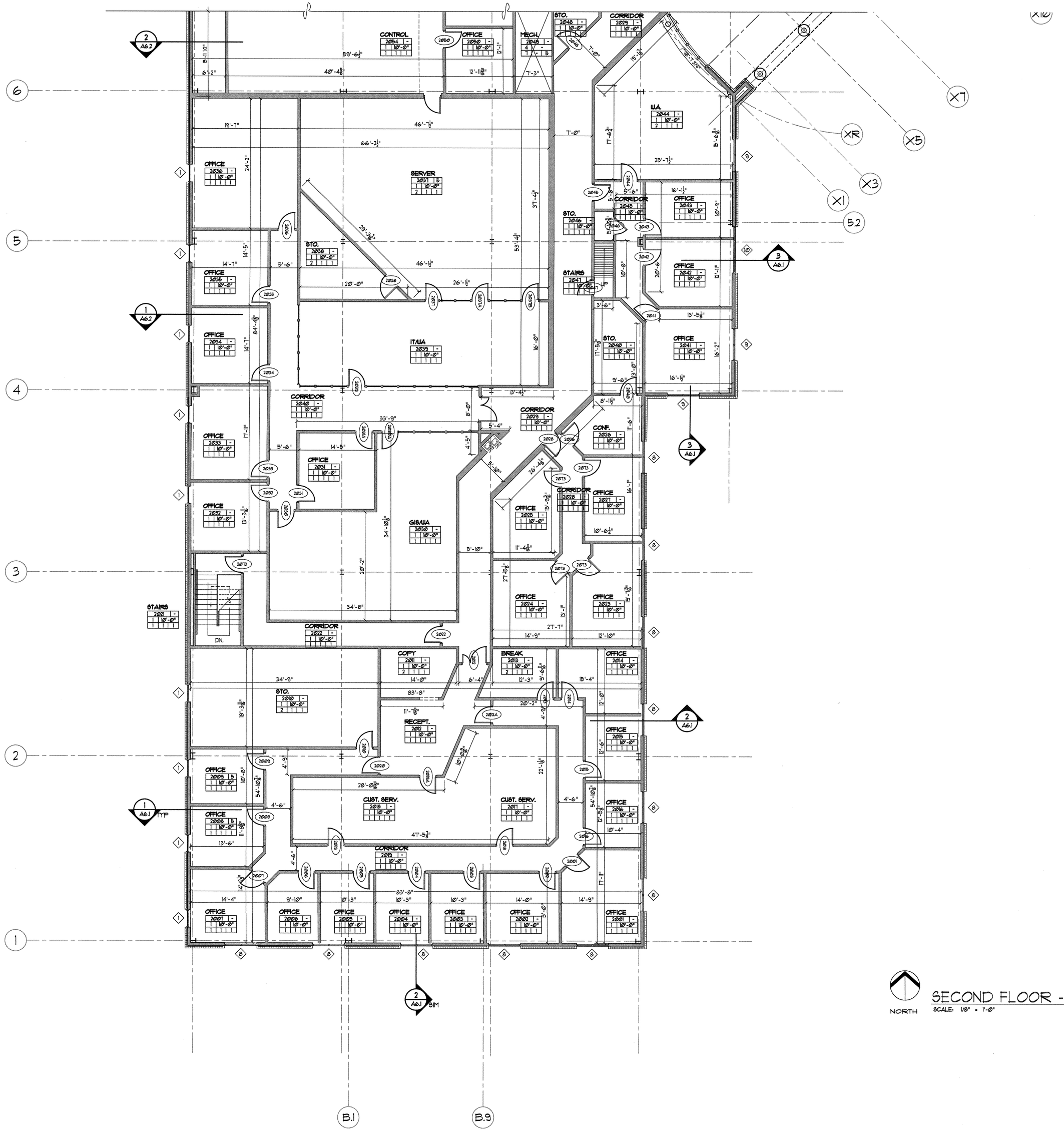
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ZONE C FLOOR PLAN

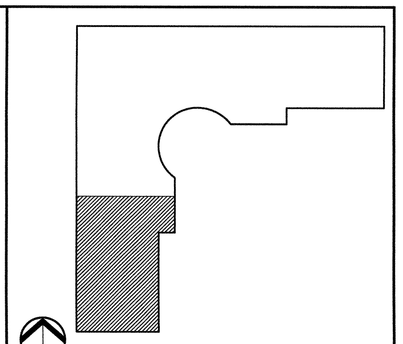
SHEET NUMBER:
A1.2C



NORTH

SECOND FLOOR - ZONE C FLOOR PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME
SPACE NO — REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GYPS PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	·	·	03-12-07
DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-08-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
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JRA Architects, Inc.
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PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

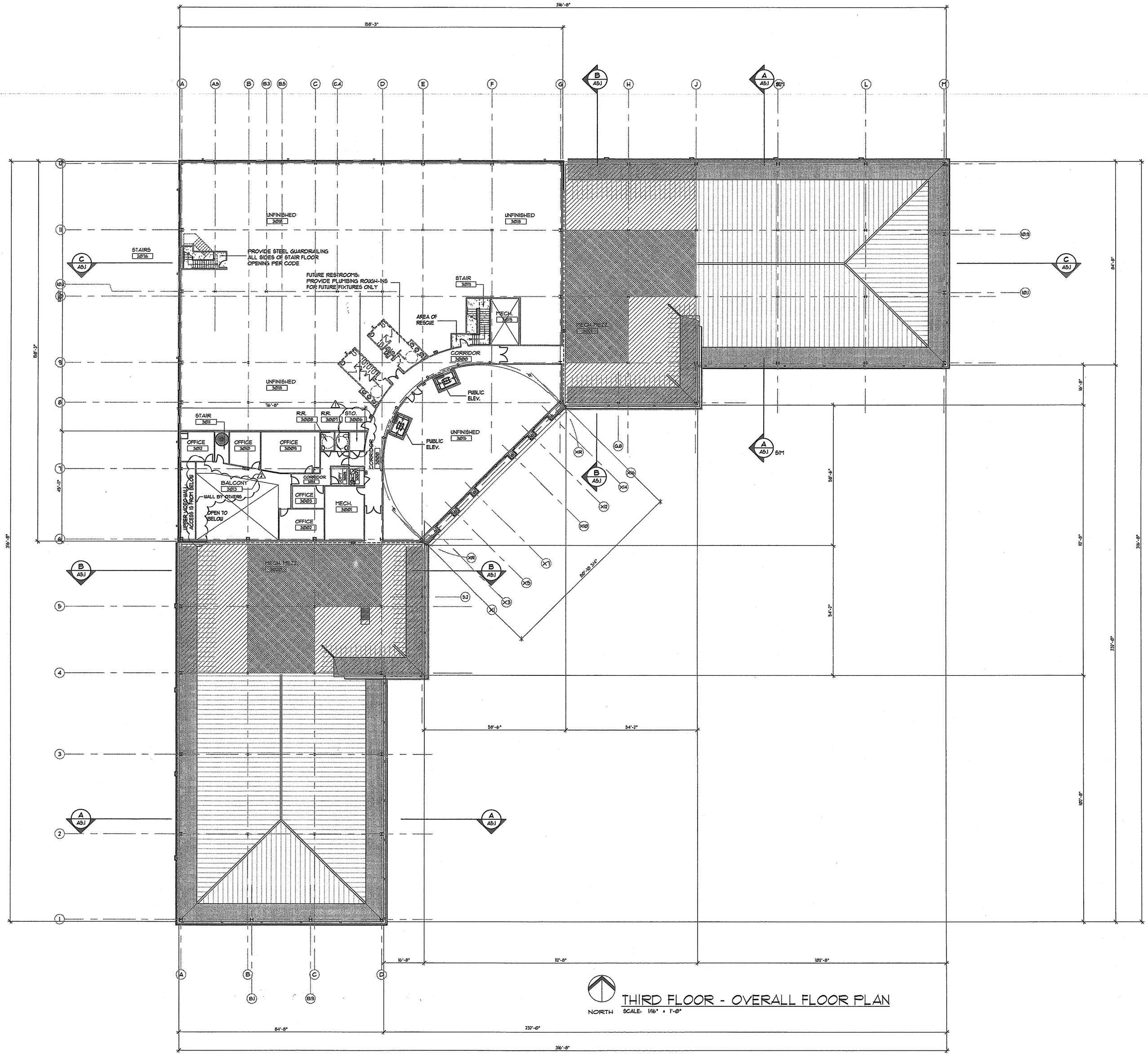
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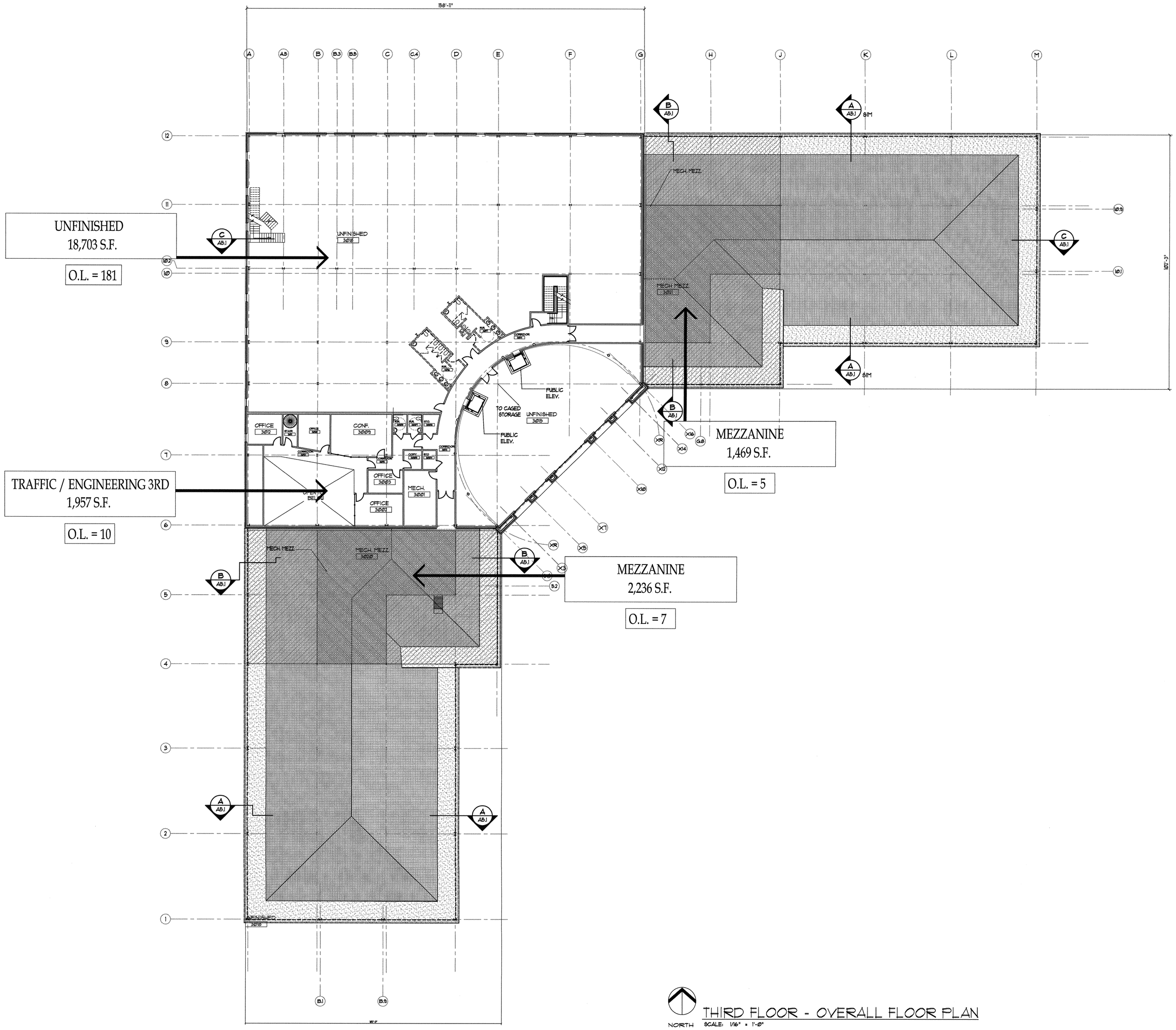
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

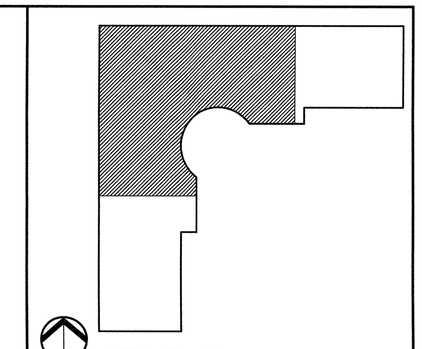
SHEET TITLE:
SECOND FLOOR ZONE C FLOOR PLAN

SHEET NUMBER:
A1.2C


316'-8"
158'-3"
UNFINISHED 3018
UNFINISHED 3018
STAIRS 2016
PROVIDE STEEL GUARDRAILING ALL SIDES OF STAIR FLOOR OPENING PER CODE
FUTURE RESTROOMS: PROVIDE PLUMBING ROUGH-INS FOR FUTURE FIXTURES ONLY
STAIR 3013
MECH. 3015
AREA OF RESCUE
CORRIDOR 3200
PUBLIC ELEV.
UNFINISHED 3018
STAIR 3011
RR. 3008
RR. 3007
STO. 3005
OFFICE 3012
OFFICE 3010
OFFICE 3009
CORRIDOR 3002
UNFINISHED 3015
PUBLIC ELEV.
BALCONY 3013
WALL BY OTHERS
OPEN TO BELOW
CORRIDOR 3014
OFFICE 3003
MECH. 3001
OFFICE 3002
UPPER ROOF WALL ACCESS IS FROM BELOW
MECH. PENT. 3022
MECH PENT 3021
STAIR 3019
STAIR 3017
STAIR 3004
STAIR 3006
OFFICE 3020
OFFICE 3021
OFFICE 3022
OFFICE 3023
OFFICE 3024
OFFICE 3025
OFFICE 3026
OFFICE 3027
OFFICE 3028
OFFICE 3029
OFFICE 3030
OFFICE 3031
OFFICE 3032
OFFICE 3033
OFFICE 3034
OFFICE 3035
OFFICE 3036
OFFICE 3037
OFFICE 3038
OFFICE 3039
OFFICE



NORTH THIRD FLOOR - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"



NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME
SPACE No | REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	·	·	03-20-07
DESIGN DEVELOPMENT	·	·	06-06-07
DD OWNER REVIEW	·	·	08-08-07
75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
----	·	·	----

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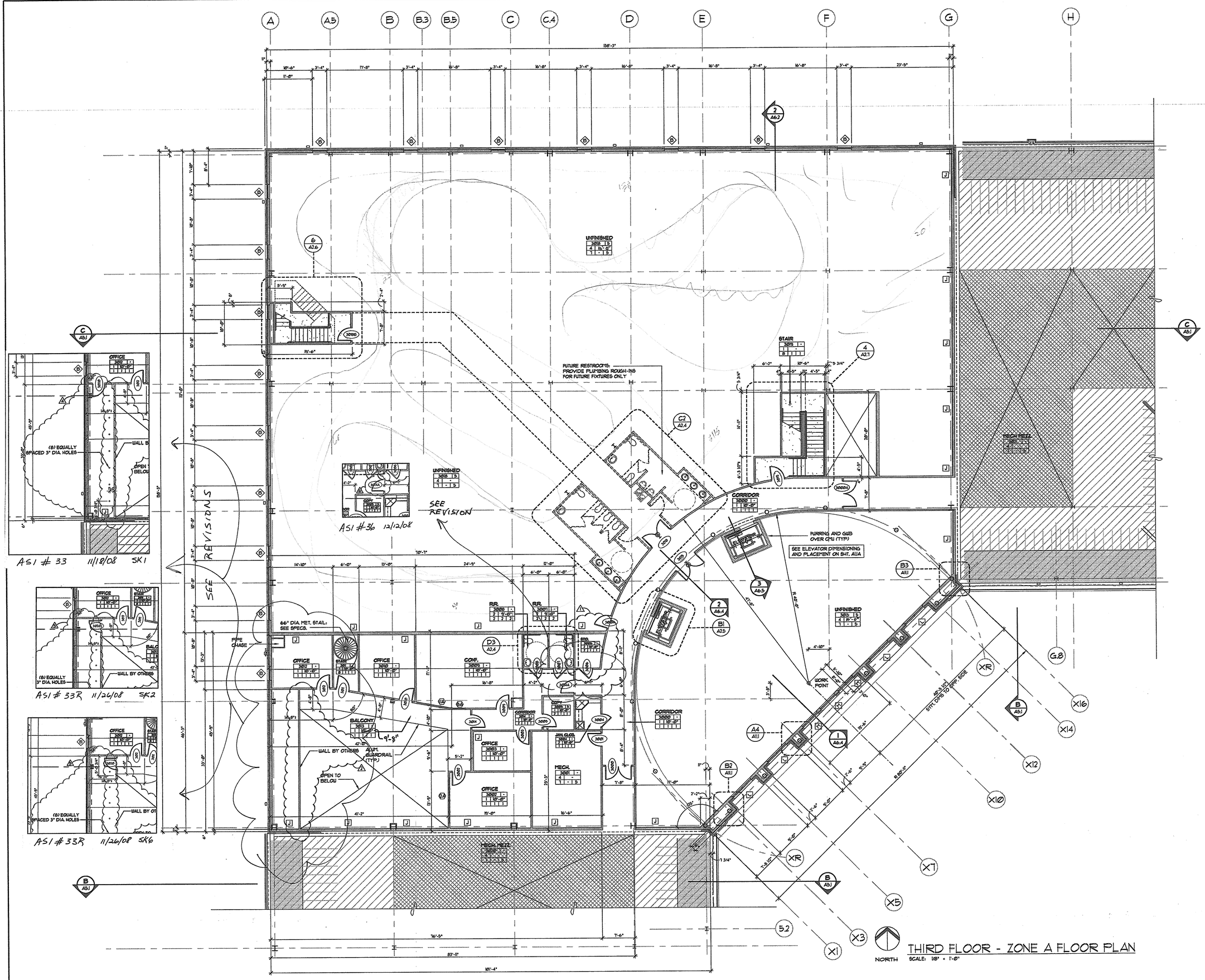
CONSULTANTS:

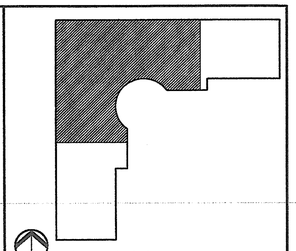
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR OVERALL
FLOOR PLAN

SHEET NUMBER:
A1.3





NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING
1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS
1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWELED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS & RISERS

BASE
1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY
SPACE NAME

SPACE No	REMARKS
	CLG / CLG HT
	FLR / BASE / WALL

WALLS
1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GWB/ NO FINISHES

REMARKS
1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
2. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GWB PARTITIONS THIS SPACE.
3. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	A51 # 12 - ELEVATOR ROOM RELOCATION			8/01/08
2	A51 # 14 - TRAFFIC / ENGINEERING REVISIONS			8/25/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	05-25-07
DD OWNER REVIEW	-	-	06-22-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

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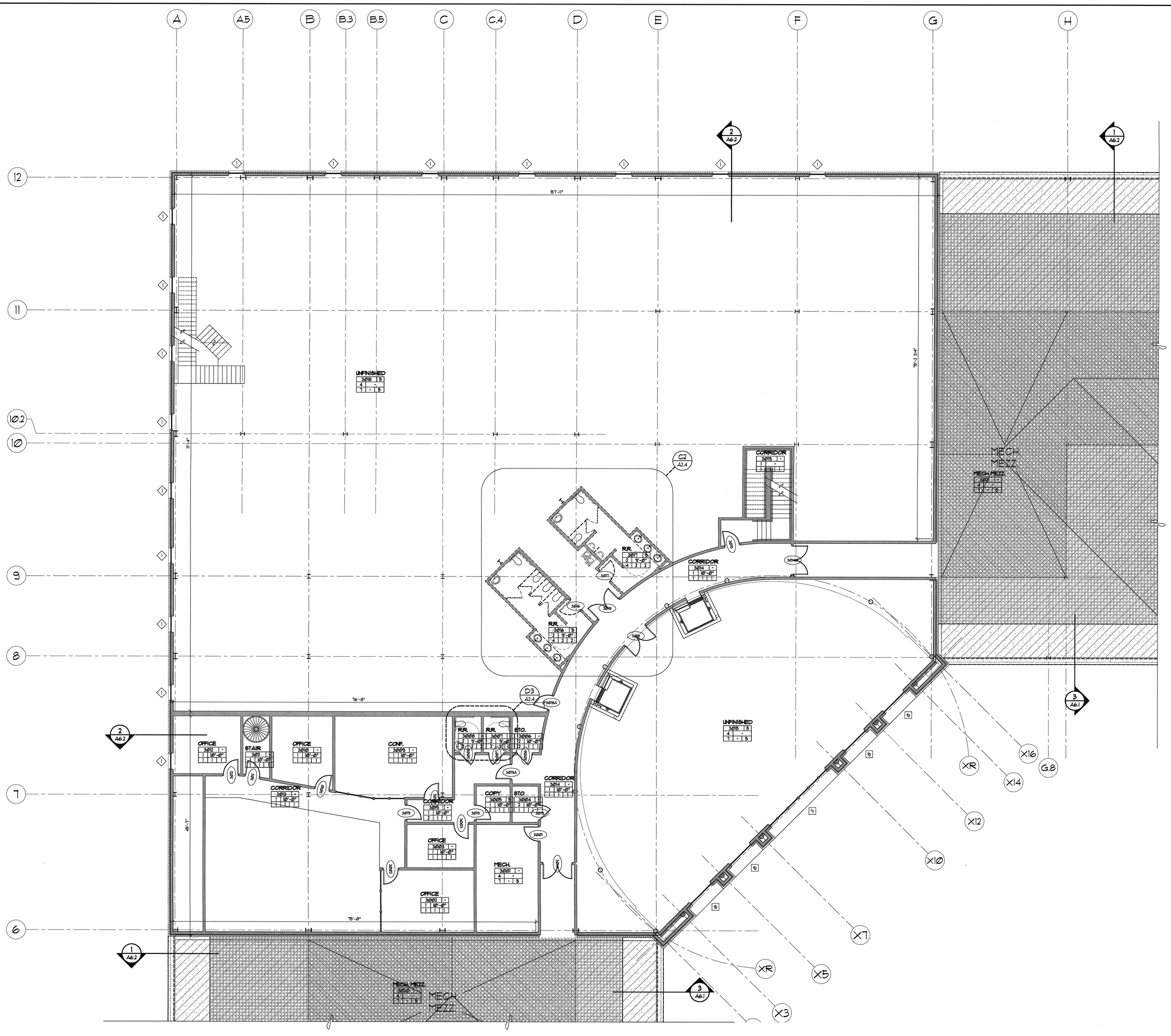
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

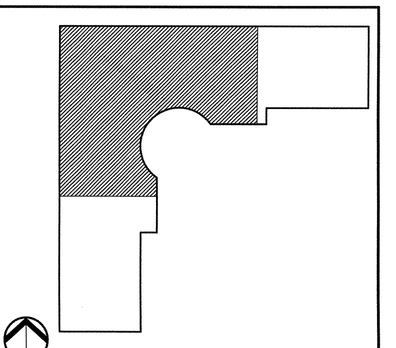
SHEET TITLE:
THIRD FLOOR ZONE A
FLOOR PLAN

SHEET NUMBER:
A1.3A



NORTH THIRD FLOOR - ZONE A FLOOR PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

FINISH SCHEDULE

CEILING

1. ACOUSTIC CEILING TILE SYSTEM (ACT)
2. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
3. PAINTED EXPOSED STRUCTURE
4. EXPOSED

FLOORS

1. CARPET
2. VINYL COMPOSITE TILE (VCT)
3. PORCELAIN TILE
4. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE

BASE

1. VINYL BASE
2. CERAMIC TILE
3. PORCELAIN TILE
4. WOOD BASE

FINISHES KEY

SPACE NAME
SPACE No | REMARKS
CLG / CLG HT
FLR / BASE / WALL

WALLS

1. EGGSHELL ENAMEL PAINTED GYPSUM WALL BOARD
2. 48" CERAMIC TILE WAINSCOTE ON MR WALL BOARD WITH EPOXY PAINTED MR WALL BOARD ABOVE.
3. EPOXY PAINT
4. WOOD PANELS
5. TAPED GLUE/ NO FINISHES

REMARKS

1. GYPSUM BOARD BULKHEADS. SEE REFLECTED CEILING PLAN FOR LOCATIONS AND HEIGHTS.
3. PROVIDE CONT. 3½" SOUND BATTS ABOVE FINISH CEILING PROVIDE CONT. 3½" SOUND BATTS IN GMS PARTITIONS THIS SPACE.
4. PROVIDE ACOUST. WALL PANELS AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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Commission Number: 06318

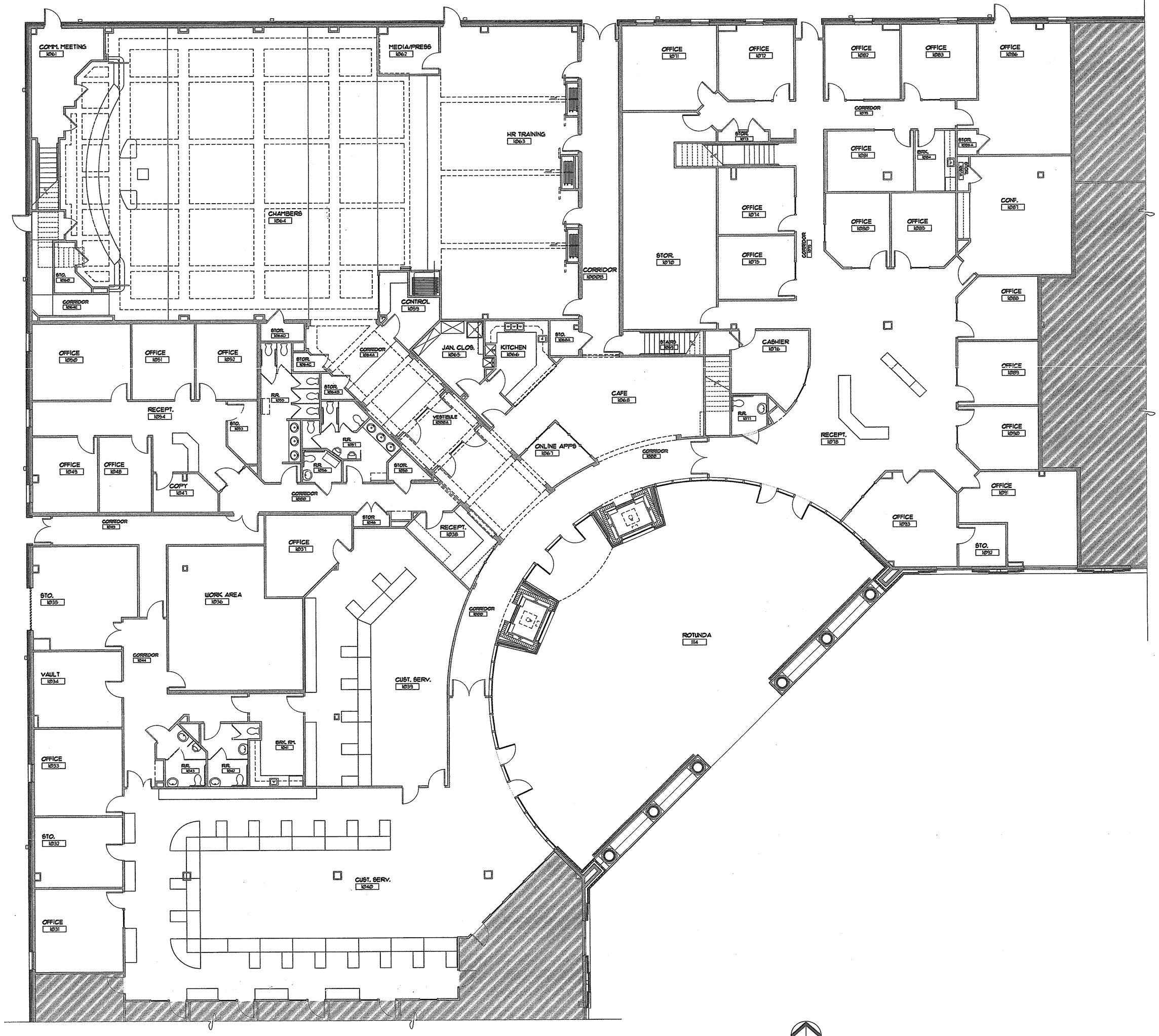
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR ZONE A FLOOR PLAN

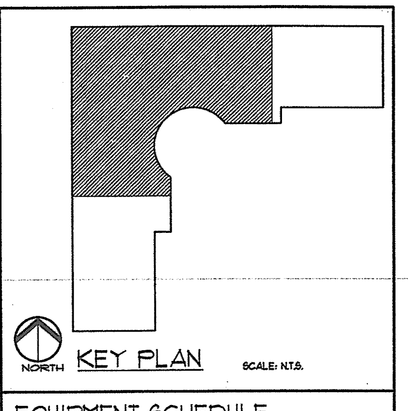
SHEET NUMBER:
A1.3A



NORTH

FIRST FLOOR - ZONE A EQUIPMENT PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 10' x 4' MARKER BOARD (RAIL @ 32" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MUSICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 32").

2. 4' x 4' TACKBOARD (RAIL @ 32" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 32" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 32" AFF)

3. BULLETIN BOARD 36" H x 48" W.BOTT. @ 36" AFF).
4. 5' x 5' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD).
4A. 11' x 28' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 88' L (V.I.F.).
5A. MOVABLE PARTITION, 28' L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPALY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CUBICLE CURTAIN 4 TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS, 4' HIGH (UNO.), CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING UNO
17. LOCKERS - 12" x 12" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (96 TOTAL UNITS)
18. COMBINATION UTILITY SHELF UNIT 4 MOP HOLDER. TOP OF UNIT AT 6'0" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MANUF. STORAGE SHELVING UNITS - PROVIDE MEG SHELVING BY LINDSEY EQUIP. (850) 893-2611 OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR & INTERIOR GLAZINGS.
2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF M.O. AT ALL WINDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING & ELECTRICAL DWGS.
5. COORDINATE EQUIPMENT LOCATIONS & MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (A1.00) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 05318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

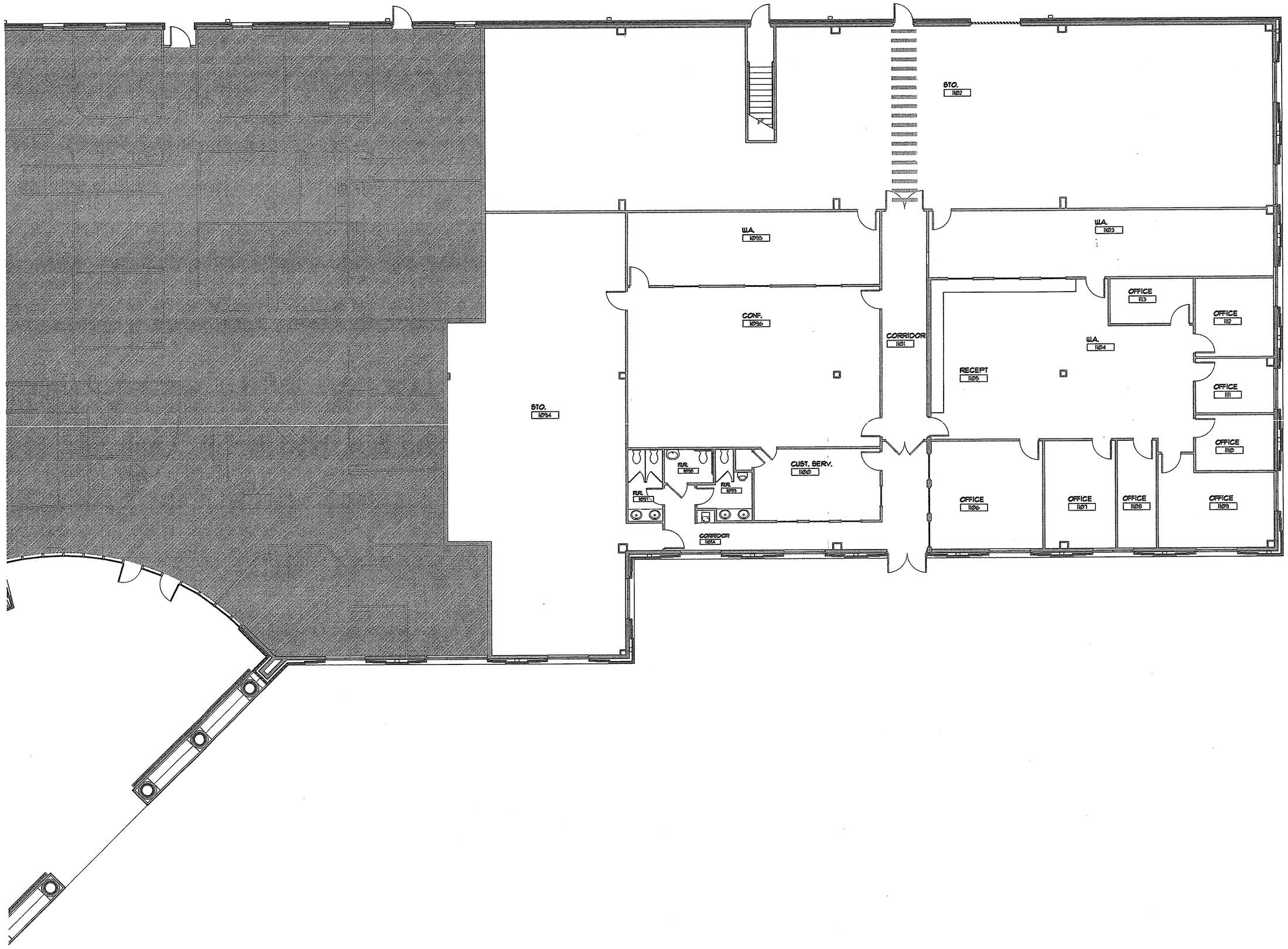
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FIRST FLOOR ZONE A EQUIPMENT PLAN

SHEET NUMBER:

A2.1A

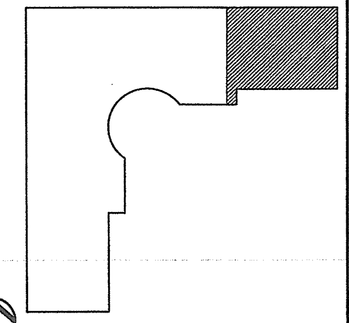
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NORTH

FIRST FLOOR - ZONE B EQUIPMENT PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 10' x 4' MARKER BOARD (RAIL @ 32" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MUSICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 32").

2. 4' x 4' TACKBOARD (RAIL @ 32" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 32" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 32" AFF)

3. BULLETIN BOARD 36" H x 48" W(BOTT. @ 36" AFF).
4. 5' x 5' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD).
4A. 12' x 20' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 60' L (V.I.F.).
5A. MOVABLE PARTITION, 30' L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPLAY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CURVILE CURTAIN + TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS: 4' HIGH (U.N.O.) CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING U.N.O
17. LOCKERS - 12" x 12" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (336 TOTAL UNITS)
18. COMBINATION UTILITY SHELF UNIT + MOP HOLDER. TOP OF UNIT AT 6'0" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MANUF. STORAGE SHELVING UNITS - PROVIDE MSG SHELVING BY LINDSEY EQUIP. (850) 893-3411 OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR + INTERIOR GLAZINGS.
2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF M.O. AT ALL WINDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING + ELECTRICAL DGNS.
5. COORDINATE EQUIPMENT LOCATIONS + MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (ADDO) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

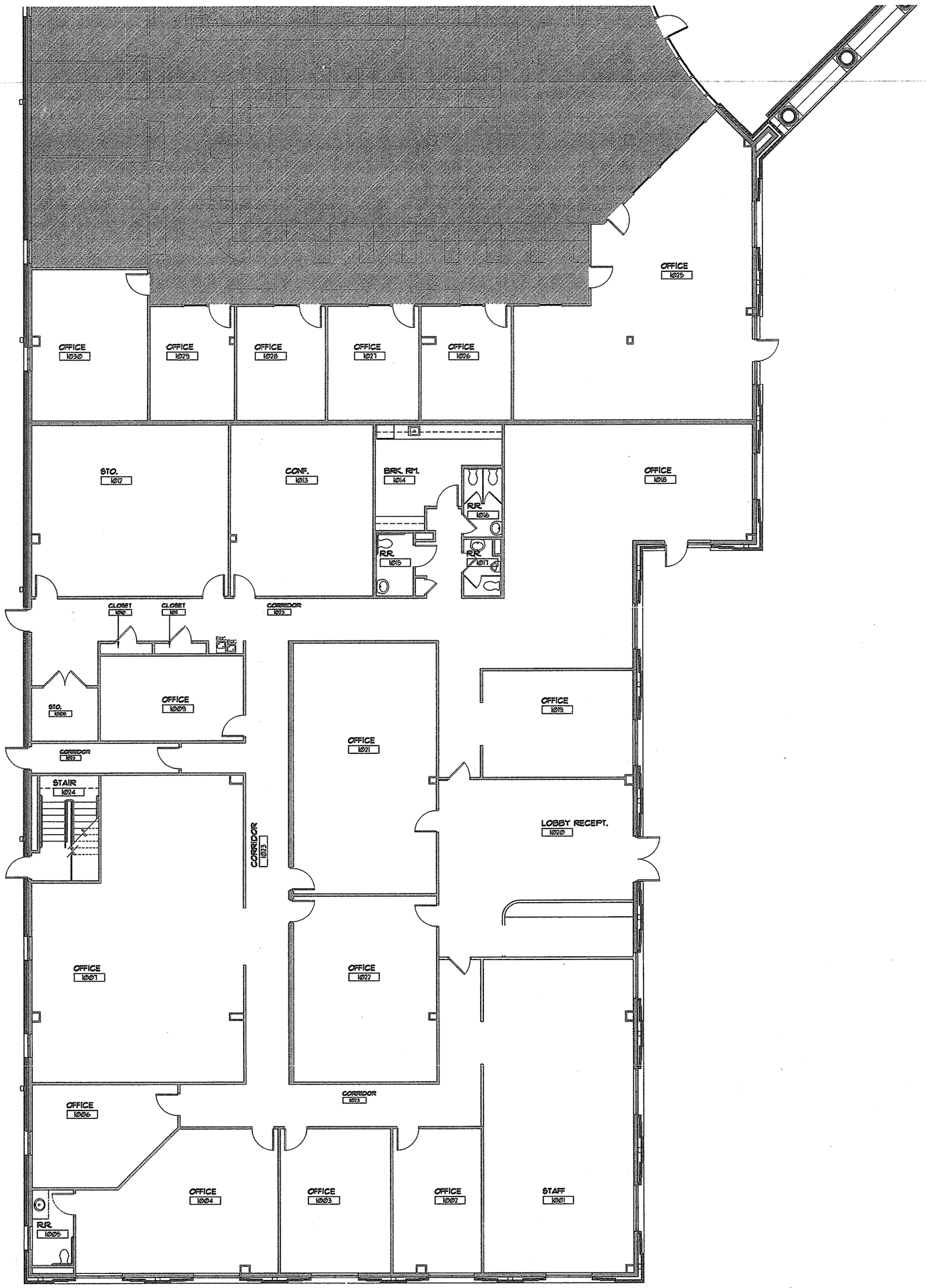
SHEET TITLE:

FIRST FLOOR ZONE B EQUIPMENT PLAN

SHEET NUMBER:

A2.1B

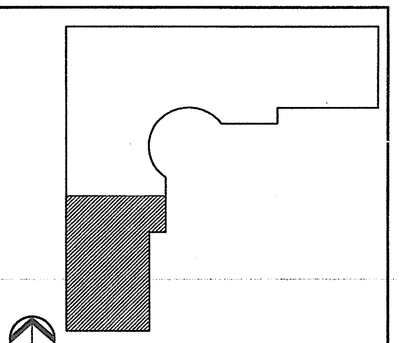
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NORTH

FIRST FLOOR - ZONE C EQUIPMENT PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 10' x 4' MARKER BOARD (RAIL @ 32" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MEDICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 32").

2. 4' x 4' TACKBOARD (RAIL @ 32" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 32" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 32" AFF)

3. BULLETIN BOARD 36" H x 48" W(BOTT. @ 36" AFF).
4. 5' x 5' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD).
4A. 12' x 20' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 60" L (V.I.F.).
5A. MOVABLE PARTITION, 20" L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPLAY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL-HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CUBICLE CURTAIN & TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS: 4' HIGH (U.N.O.) CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING U.N.O
17. LOCKERS - 12" x 12" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (56 TOTAL UNITS)
18. COMBINATION UTILITY SHELF UNIT & MOP HOLDER. TOP OF UNIT AT 60" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MADE STORAGE SHELVING UNITS - PROVIDE MEG SHELVING BY LINDSEY EQUIP. (850) 893-2611 ± OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR & INTERIOR GLAZINGS.
2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF FGD AT ALL WINDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING & ELECTRICAL DWGS.
5. COORDINATE EQUIPMENT LOCATIONS & MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (A1.00) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

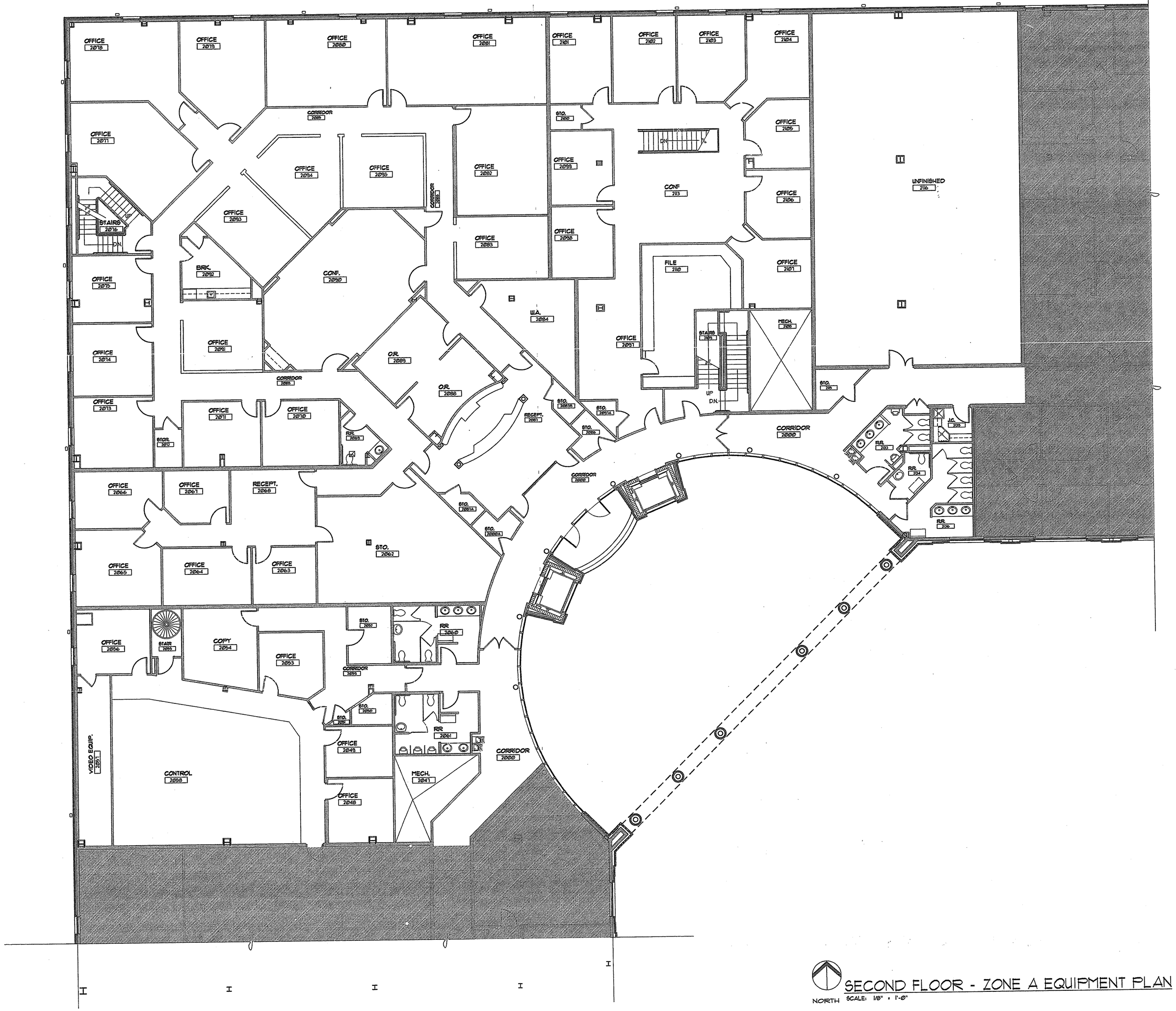
SHEET TITLE:

FIRST FLOOR ZONE C EQUIPMENT PLAN

SHEET NUMBER:

A2.1C

\\Reserve\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A2 - EQUIPMENT PLANS\A2.1C FIRST FLOOR ZONE C EQUIPMENT PLAN.dwg, 3/20/2008 9:35:12 AM, cjackson

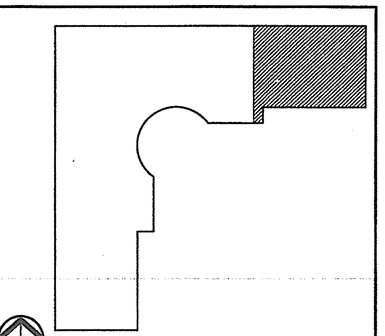

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NORTH

SECOND FLOOR - ZONE B EQUIPMENT PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 10' x 4' MARKER BOARD (RAIL @ 32" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MUSICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 32").

2. 4' x 4' TACKBOARD (RAIL @ 32" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 32" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 32" AFF)

3. BULLETIN BOARD 36" H x 48" W(BOTT. @ 36" AFF).
4. 5' x 5' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD).
4A. 5' x 26' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 80' L (V.I.F.).
5A. MOVABLE PARTITION, 26' L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPALY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CUBICLE CURTAIN (TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS: 4' HIGH (U.N.O.) CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING U.N.O
17. LOCKERS - 12" x 12" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (56 TOTAL UNITS)
18. COMBINATION UTILITY SHELF UNIT (MOP HOLDER. TOP OF UNIT AT 6'-0" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MANUF. STORAGE SHELVING UNITS - PROVIDE MTS SHELVING BY LINDSEY EQUIP. (850) 893-2611 OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR (INTERIOR GLAZINGS.
2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF M.O. AT ALL WINDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING (ELECTRICAL TRADES.
5. COORDINATE EQUIPMENT LOCATIONS (MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (A1.00) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	05-02-07
DD OWNER REVIEW	-	-	06-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-8832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

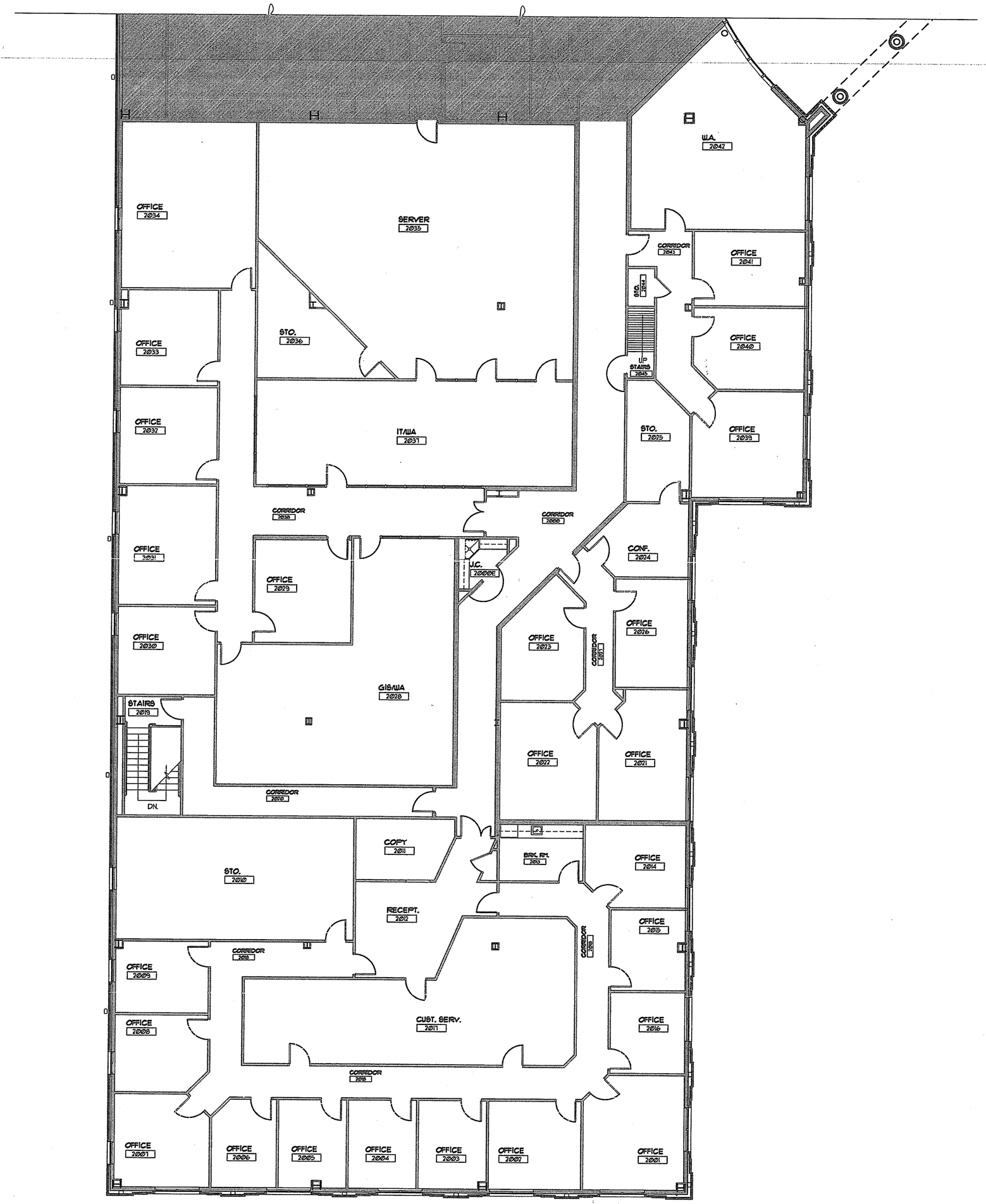
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B EQUIPMENT PLAN

SHEET NUMBER:

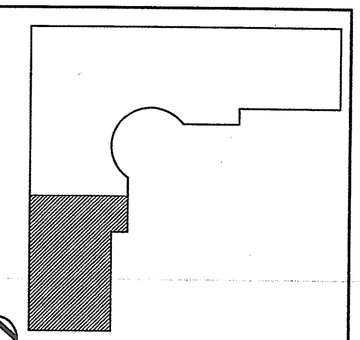
A2.2B



NORTH

SECOND FLOOR - ZONE C EQUIPMENT PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 10' x 4' MARKER BOARD (RAIL @ 32" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MUSICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 32").

2. 4' x 4' TACKBOARD (RAIL @ 32" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 32" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 32" AFF)

3. BULLETIN BOARD 36" H x 48" W(BOTT. @ 36" AFF.)
4. 9' x 9' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD.)
4A. 12' x 20' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 80' L (V.I.F.).
5A. MOVABLE PARTITION, 20' L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPALY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CUBICLE CURTAIN & TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. BRIDGE CURTAIN
16. ACOUSTIC WALL PANELS- 4' HIGH (U.N.O.), CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING U.N.O
17. LOCKERS - 12" x 15" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (96 TOTAL UNITS)
18. CORDINATION UTILITY SHELF UNIT & MOP HOLDER. TOP OF UNIT AT 60" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MANUF. STORAGE SHELVING UNITS ; PROVIDE MEG SHELVING BY LINDSEY EQUIP. (866) 893-2611 # OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR & INTERIOR GLAZINGS.
2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF M.O. AT ALL WINDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING & ELECTRICAL DWGS.
5. COORDINATE EQUIPMENT LOCATIONS & MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (A100) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	05-25-07
DD OWNER REVIEW	-	-	08-20-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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Commission Number: 05318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

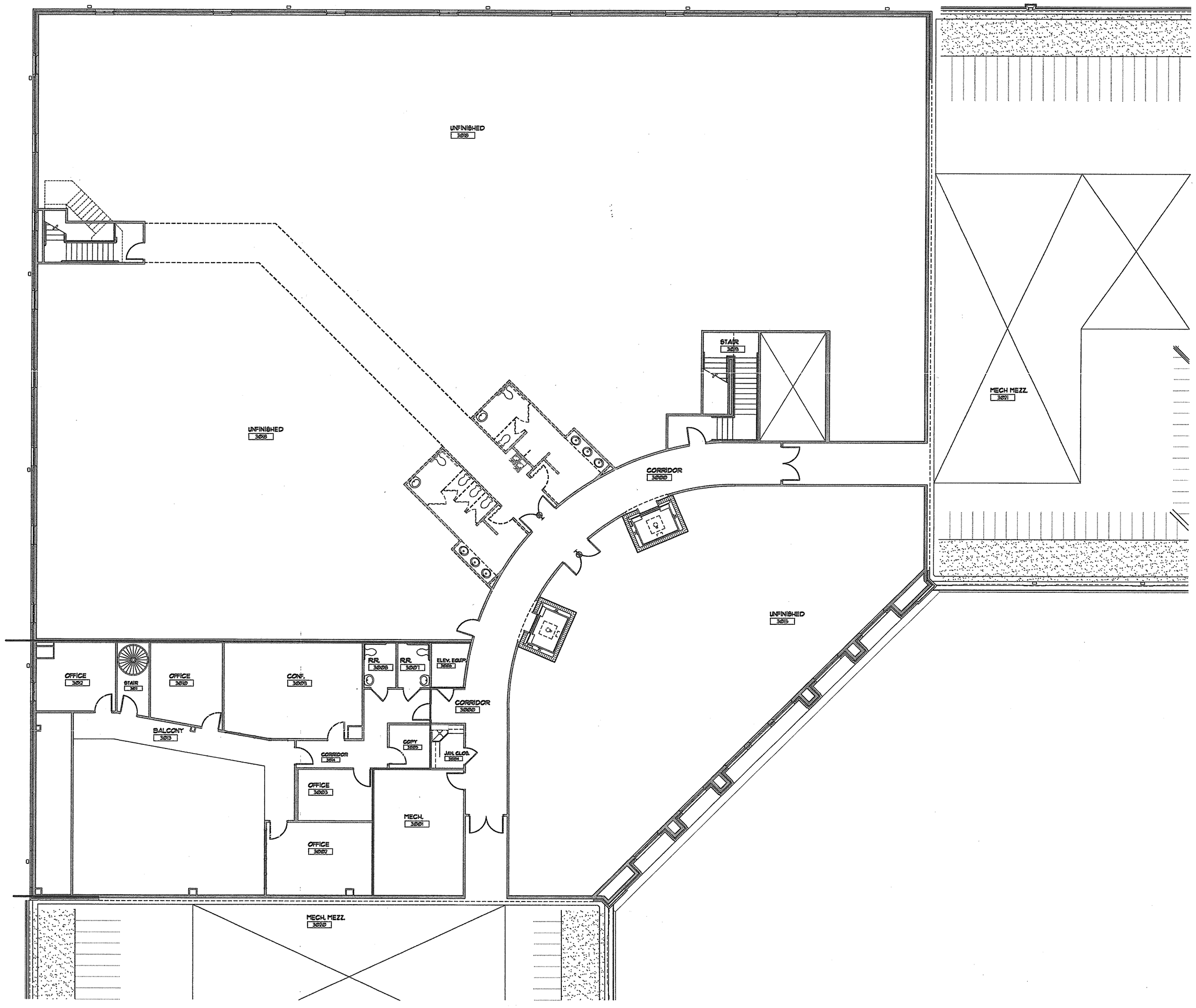
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SECOND FLOOR ZONE C EQUIPMENT PLAN

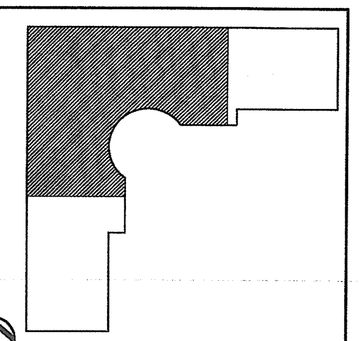
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\\ftlserver\job\05318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A2 - EQUIPMENT PLANS\A2.2C SECOND FLOOR ZONE C EQUIPMENT PLAN.dwg, 3/20/2008 10:14:53 AM, cjackson



NORTH THIRD FLOOR - ZONE A EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"



NORTH KEY PLAN SCALE: N.T.S.

EQUIPMENT SCHEDULE

1. 6' x 4' MARKERBOARD (RAIL @ 30" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 30" AFF)
1B. 12' x 4' MARKER BOARD (RAIL @ 30" AFF)
1C. 16' x 4' MARKER BOARD (RAIL @ 30" AFF)
1D. 16' x 4' MARKERBOARD WITH (2) MUSICAL STAFFS PERMANENTLY MARKED ON SURFACE (RAIL AT 30").

2. 4' x 4' TACKBOARD (RAIL @ 30" AFF)
2A. 6' x 4' TACKBOARD (RAIL @ 30" AFF)
2B. 8' x 4' TACKBOARD (RAIL @ 30" AFF)

3. BULLETIN BOARD 36" H x 48" W(BOTT. @ 36" AFF).
4. 9' x 9' PROJECTION SCREEN (WALL MTD. ABOVE MARKERBOARD).
4A. 12' x 20' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 8'0" L (V.I.F.).
5A. MOVABLE PARTITION, 30' L (V.I.F.).
6. WALL MOUNTED TV/VCR BRACKET.
7. STORAGE CUBBIES (TEN 3-CUBBY UNITS).
8. LIGHTED DISPALY CASE
9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
12. SLIDE IN ELECTRIC RANGE
12A. RANGE HOOD
13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
14. HOSPITAL CUBICLE CURTAIN + TRACK (CLG. MOUNTED)
15. STAGE CURTAIN - SEE SPECIFICATIONS.
15A. T.V. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS, 4' HIGH (U.N.O.) CONTINUOUS ON WALL INDICATED. MOUNT FLUSH W/CEILING U.N.O
17. LOCKERS - 12" x 12" x 72". (PROVIDE SEVEN UNITS)
17A. ADDITIVE ALTERNATE: PROVIDE FORTY-EIGHT 12" x 12" x 36" x TWO-TIER METAL STUDENT LOCKERS. (96 TOTAL UNITS)
18. COMBINATION UTILITY SHELF UNIT + MOP HOLDER. TOP OF UNIT AT 6'-8" AFF
19. NOT USED
20. CHANGING TABLE
21. COMPUTER TABLES (N.I.C.)
22. COPIER (N.I.C.)
23. ELECTRIC KILN (N.I.C.)
24. CLOTHES WASHER - RESIDENTIAL TYPE, (N.I.C.)
25. CLOTHES DRYER - RESIDENTIAL TYPE, (N.I.C.)
26. PRE-MANF. STORAGE SHELVING UNITS - PROVIDE MEA SHELVING BY LINDSEY EQUIP. (850) 893-2611 + OR APPROVED EQUAL.

GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR + INTERIOR GLAZINGS.
2. U.N.O. MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF MLD. AT ALL WNDOW LOCATIONS.
4. COORDINATE EQUIPMENT REQUIREMENTS W/ PLUMBING + ELECTRICAL DWGS.
5. COORDINATE EQUIPMENT LOCATIONS + MOUNTING WITH POWER/COMM OUTLETS.
6. SEE FLOOR PLAN (A100) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9632
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Commission Number: 06318

CONSULTANTS:

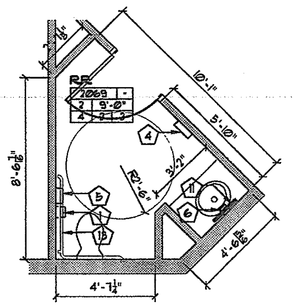
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

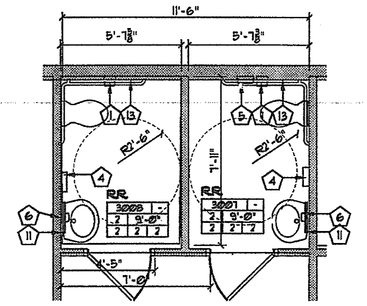
SHEET TITLE:
THIRD FLOOR ZONE A
EQUIPMENT PLAN

SHEET NUMBER:
A2.3A

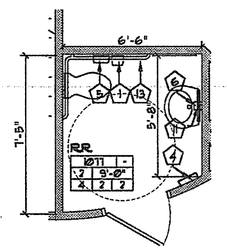
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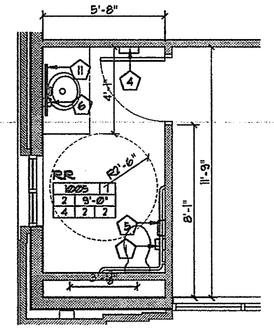
D4 ADMIN RESTROOM 2ND FLR
SCALE: 1/4" = 1'-0"



D3 MEN / WOMENS R.R. 3RD FL
SCALE: 1/4" = 1'-0"



D2 BUILDERS SERV. R.R. 1ST FL
SCALE: 1/4" = 1'-0"



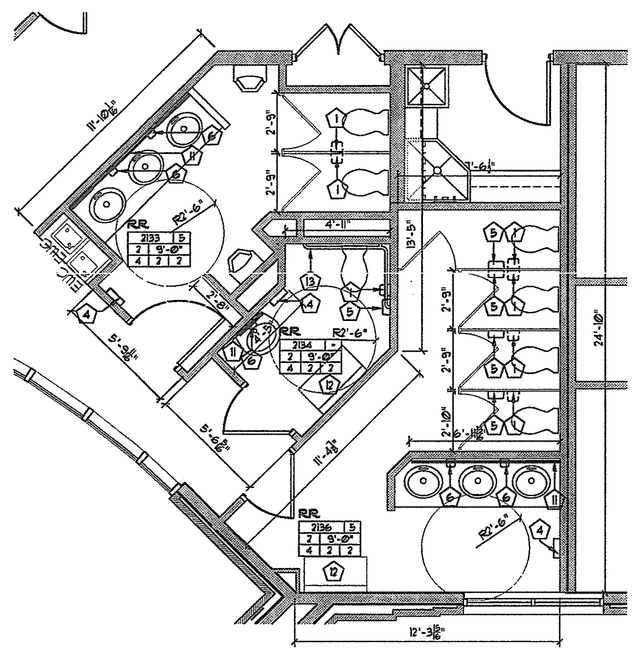
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SCALE: 1/4" = 1'-0"

TOILET ROOM ACCESSORY SCHEDULE

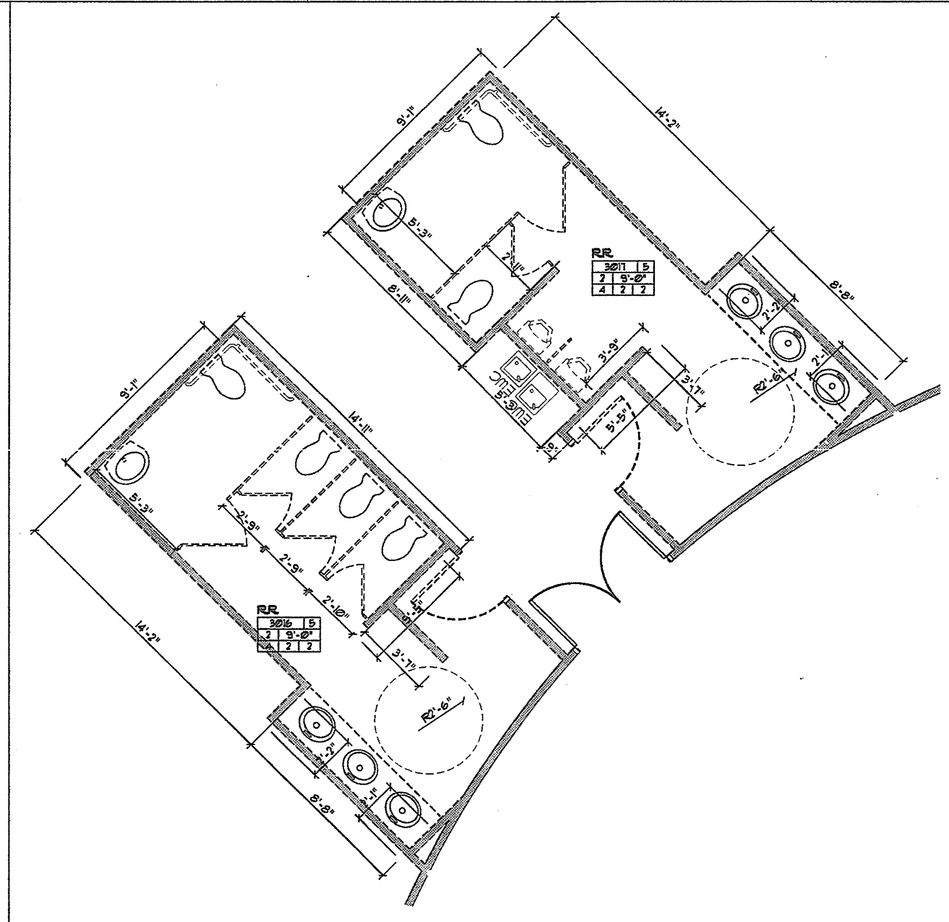
MARK	ITEM DESCRIPTION	MODEL *	MOUNTING HEIGHTS (ABOVE FIN FLR)	MOUNTING HEIGHTS HC TOILET
1	SURFACE MTD. TOILET TISSUE DISPENSER	B-2888	24" TO CENTER	24" TO CENTER
2	SINGLE ROBE HOOK	B-212	54" TO CENTER	48" TO CENTER
3	ELECTRIC HAND DRYER	B-1001	48" TOP OF UNIT	-
4	PAPER TOWEL DISP. W/ RECEPTACLE	B-3699	-	515" TOP OF UNIT
5	SURFACE MTD. SANITARY NAPKIN RECEPTACLE	B-254	36" TOP OF UNIT	36" TOP OF UNIT
6	SURFACE MTD. SOAP DISPENSER	B-60 &4112	40" BTM. OF UNIT	40" BTM. OF UNIT
7	FIXED MIRROR 18"W x 36"H	B-165-1836	48" BTM. OF UNIT	40" BTM. OF UNIT
8	3'-6" HC GRAB BAR	B-5806	-	33" A.F.F. (TOP)
9	3'-0" HC GRAB BAR	B-5806	-	33" A.F.F. (TOP)
10	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS	B-224X36	44" BTM. OF UNIT	-
11	FLOAT GLASS SHEET MIRROR TO 6'-4" AFF.		ON TOP OF BKSPL.	
12	HORIZONTAL WALL MOUNTED CHANGING TABLE	KOALA	48" TOP OF UNIT	
13	ONE PIECE HC GRAB BAR			
14				
15				
16				

MANUFACTURERS OF EQUAL PRODUCTS MAY BE SUBSTITUTED.

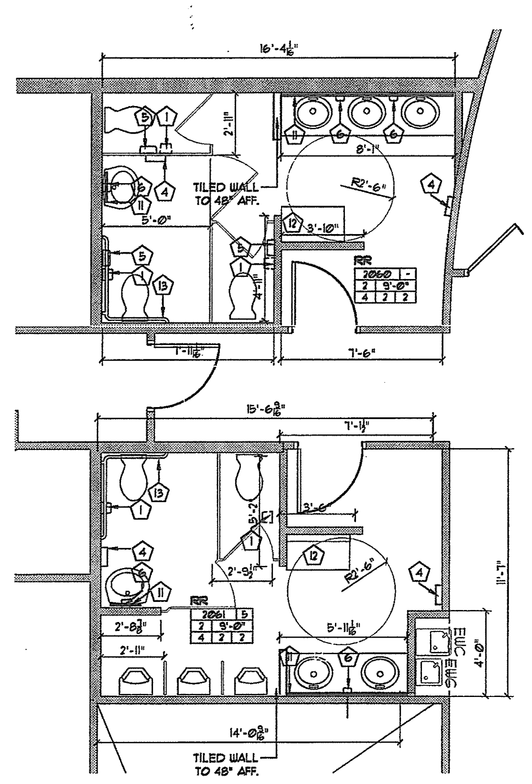
* BASIC OF DESIGN FOR TOILET ACCESSORIES IS FOR BOBRICK BRAND, ACCESSORIES, HOWEVER OTHER



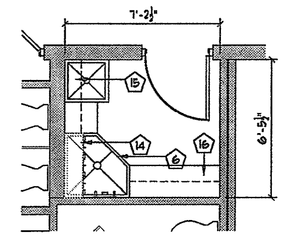
C5 MENS/WOMENS R.R. 2ND FLR.
SCALE: 1/4" = 1'-0"



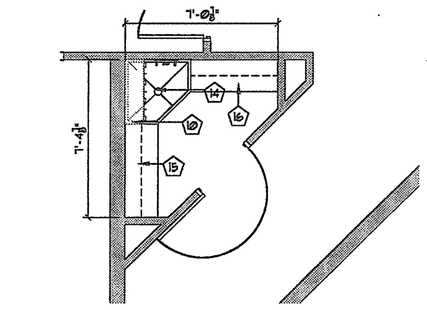
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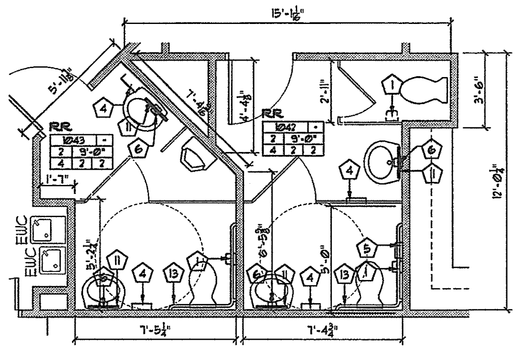
C3 MENS/WOMENS R.R. 2ND FLR
SCALE: 1/4" = 1'-0"



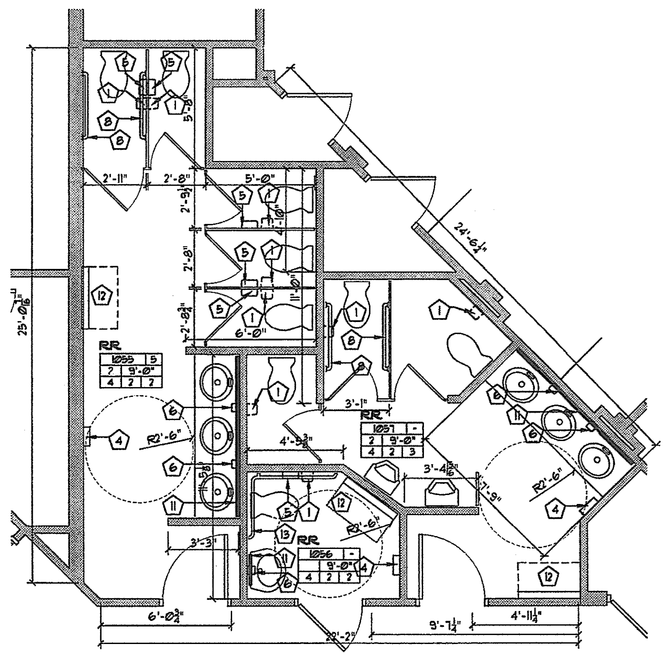
C2 JANITOR'S CLOSET
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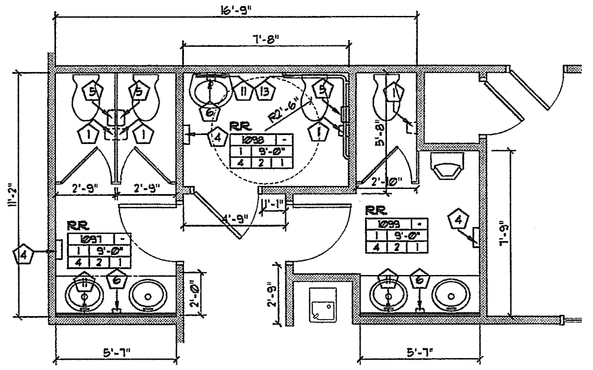
C1 JANITOR'S CLOSET
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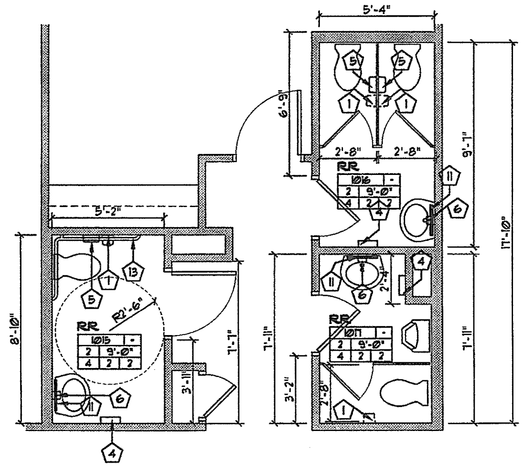
A4 MENS/WOMENS R.R. TAX COLL.
SCALE: 1/4" = 1'-0"



A3 MENS/WOMENS R.R. 1ST FLR
SCALE: 1/4" = 1'-0"



A2 MENS/WOMENS R.R. SUPER OF ELEC.
SCALE: 1/4" = 1'-0"



A1 MENS/WOMENS PROP. APPR.
SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	04-06-07
DD OWNER REVIEW	-	-	05-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

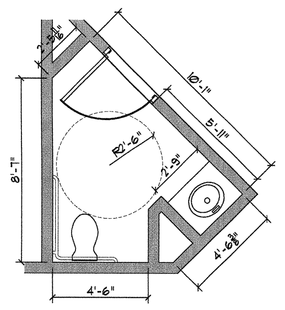
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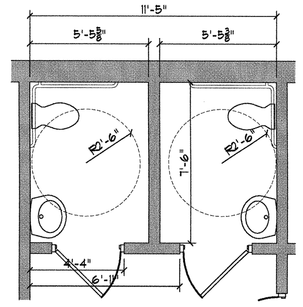
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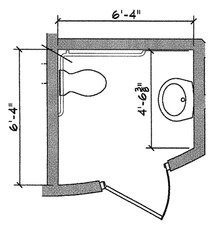
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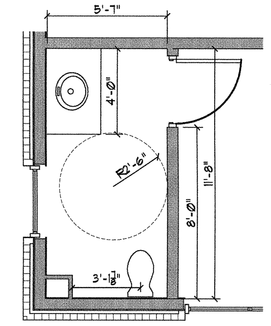
D4 ADMIN RESTROOM 2ND FLR
SCALE: 1/4" = 1'-Ø"



D3 MEN / WOMENS R.R. 3RD FL
SCALE: 1/4" = 1'-Ø"



D2 BUILDERS SERV. R.R. 1ST FL
SCALE: 1/4" = 1'-Ø"

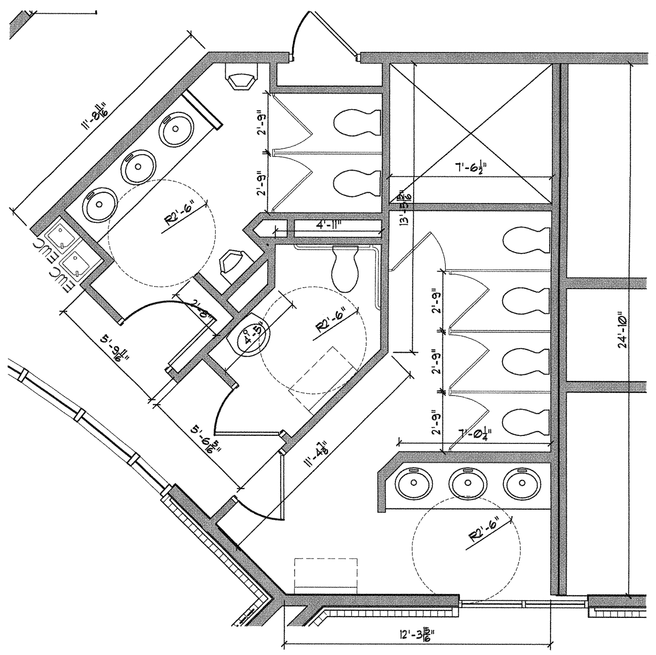


D1 PROPERTY APPR. R.R.
SCALE: 1/4" = 1'-Ø"

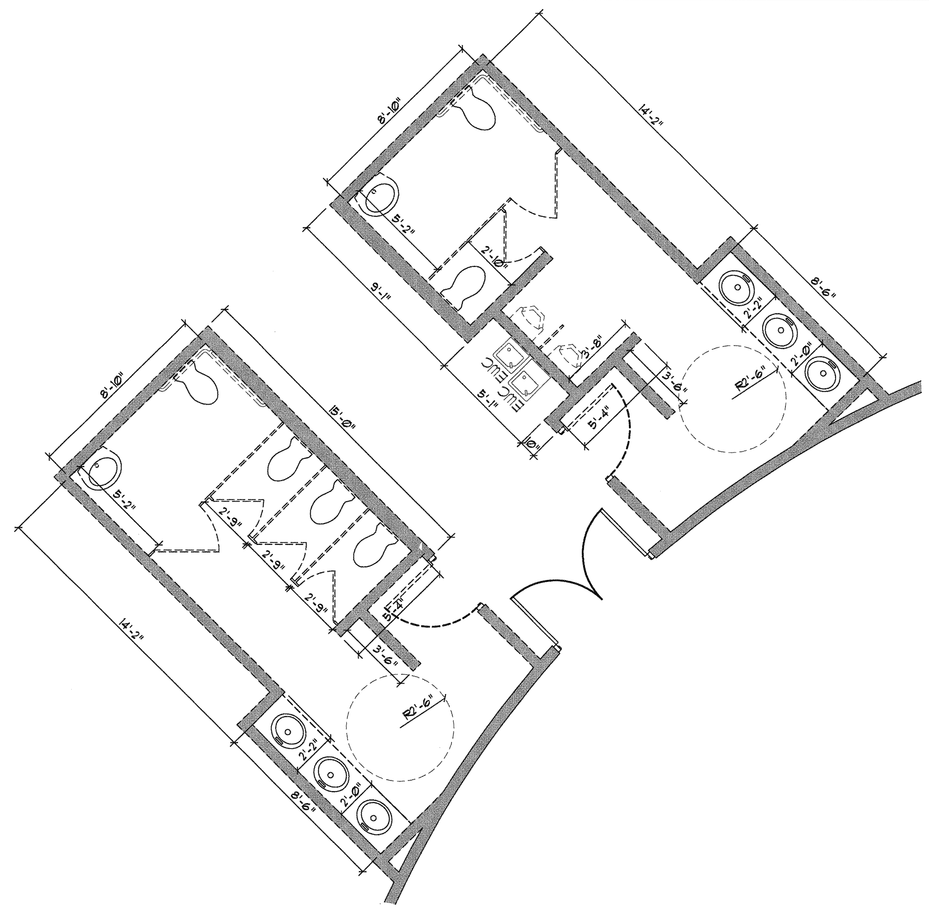
TOILET ROOM ACCESSORY SCHEDULE

MARK	ITEM DESCRIPTION	MODEL *	MOUNTING HEIGHTS (ABOVE FIN FLR)	MOUNTING HEIGHTS HC TOILET
1	SURFACE MTD. TOILET TISSUE DISPENSER	B-2888	24" TO CENTER	24" TO CENTER
2	SINGLE ROBE HOOK	B-212	54" TO CENTER	48" TO CENTER
3	ELECTRIC HAND DRYER	B-TØØ1	48" TOP OF UNIT	-
4	PAPER TOWEL DISP. W/ RECEPTACLE	B-3699	-	515" TOP OF UNIT
5	SURFACE MTD. SANITARY NAPKIN RECEPTACLE	B-254	3Ø" TOP OF UNIT	3Ø" TOP OF UNIT
6	SURFACE MTD. SOAP DISPENSER	B-6Ø	4Ø" BTM. OF UNIT	4Ø" BTM. OF UNIT
7	FIXED MIRROR 18"W x 36"H	B-165-1836	48" BTM. OF UNIT	4Ø" BTM. OF UNIT
8	3'-6" HC GRAB BAR	B-5806	-	33" AFF. (TOP)
9	3'-Ø" HC GRAB BAR	B-5806	-	33" AFF. (TOP)
10	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS	B-224X36	44" BTM. OF UNIT	-

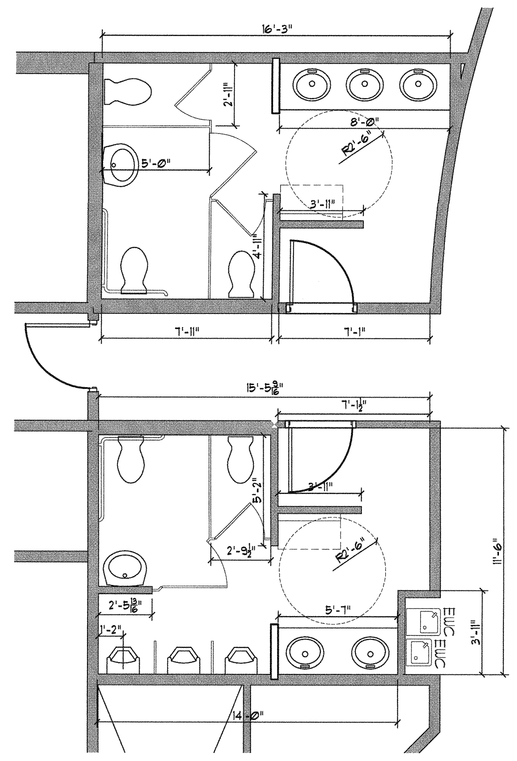
* BASIC OF DESIGN FOR TOILET ACCESSORIES IS FOR BOBRICK BRAND, ACCESSORIES, HOWEVER OTHER MANUFACTURERS OF EQUAL PRODUCTS MAY BE SUBSTITUTED.



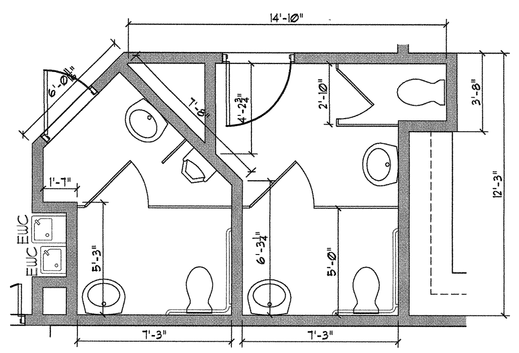
C3 MENS/WOMENS R.R. 2ND FLR.
SCALE: 1/4" = 1'-Ø"



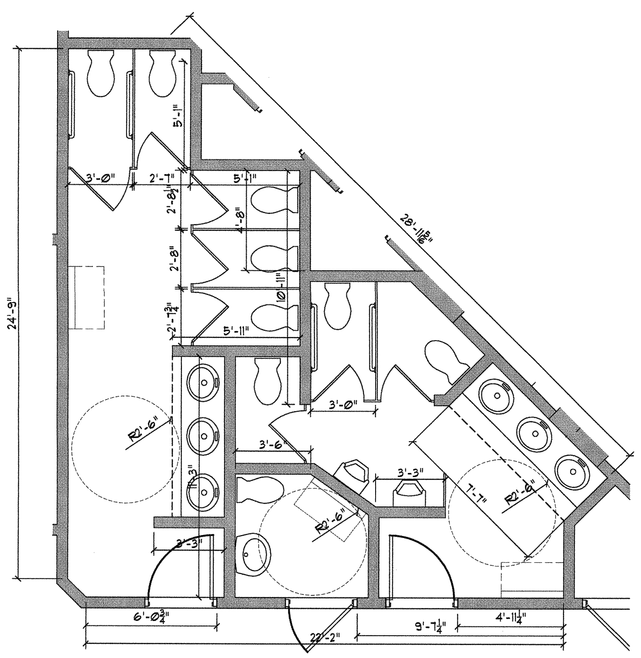
C2 FUTURE R.R. 3RD FLOOR
SCALE: 1/4" = 1'-Ø"



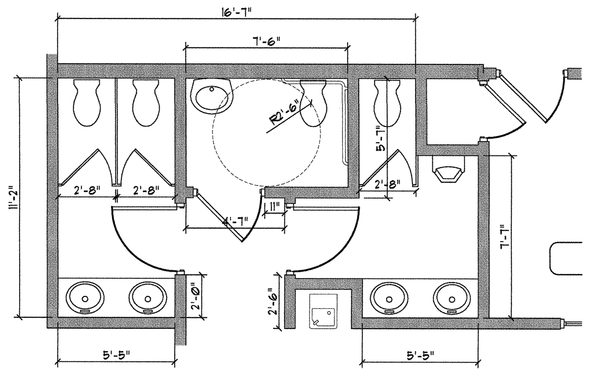
C1 MENS/WOMENS R.R. 2ND FLR
SCALE: 1/4" = 1'-Ø"



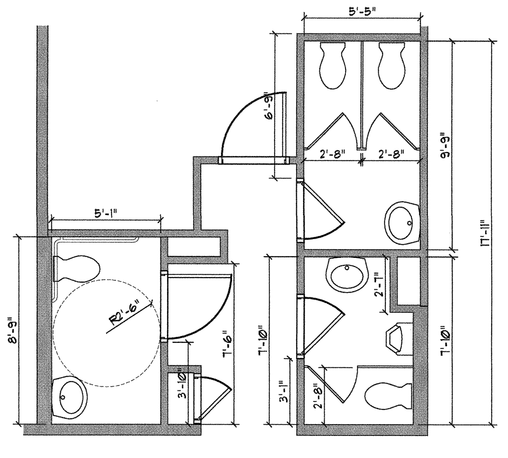
A4 MENS/WOMENS R.R. TAX COLL.
SCALE: 1/4" = 1'-Ø"



A3 MENS/WOMENS R.R. 1ST FLR
SCALE: 1/4" = 1'-Ø"



A2 MENS/WOMENS R.R. SUPER OF ELEC.
SCALE: 1/4" = 1'-Ø"



A1 MENS/WOMENS PROP. APPR.
SCALE: 1/4" = 1'-Ø"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	Ø5/Ø8/Ø6
DESIGN DEVELOPMENT	-	-	Ø6-Ø6-Ø7
DD OWNER REVIEW	-	-	Ø8-Ø8-Ø7
75% CONSTRUCTION DOCUMENTS	-	-	11-16-Ø1
----	-	-	----

JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

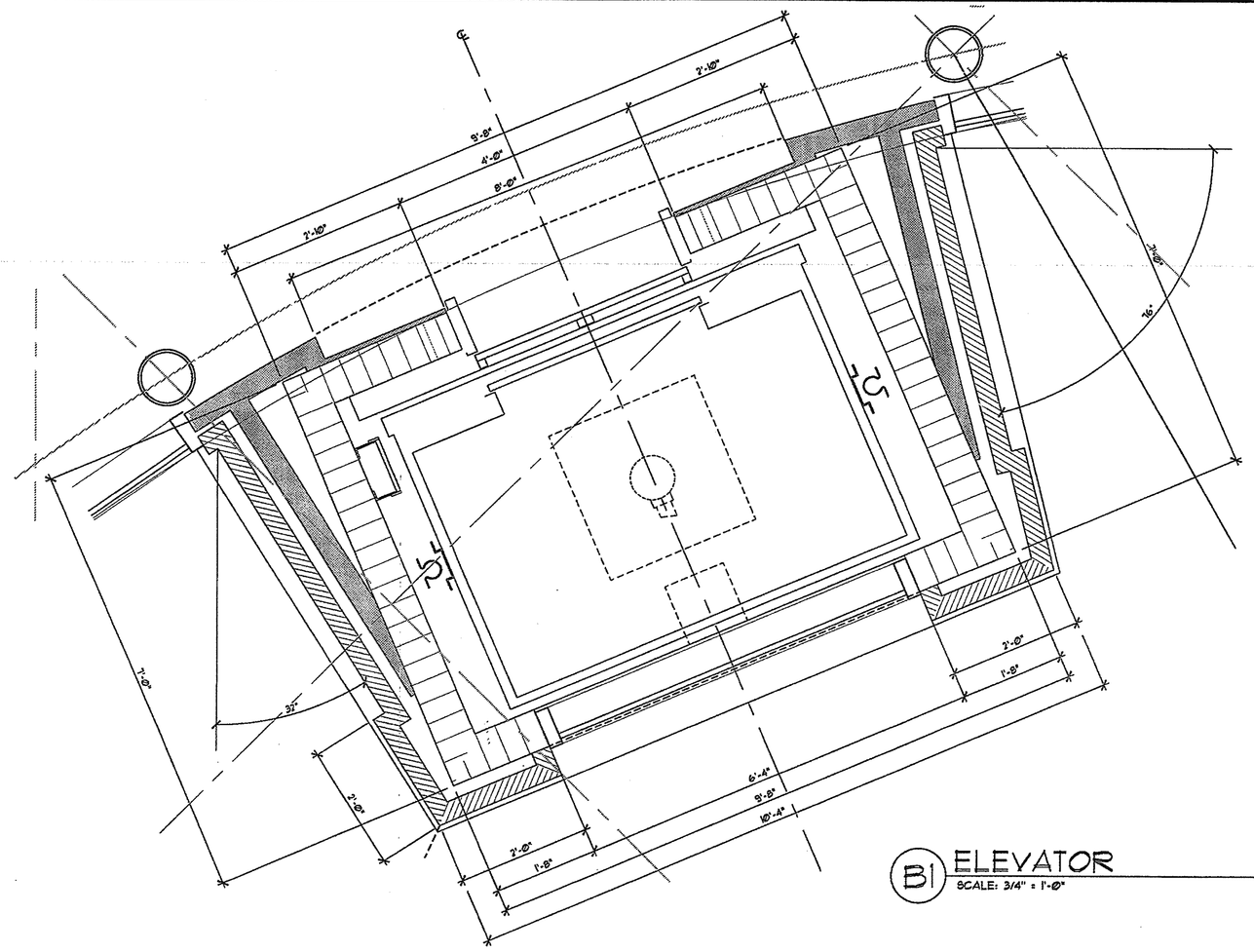
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

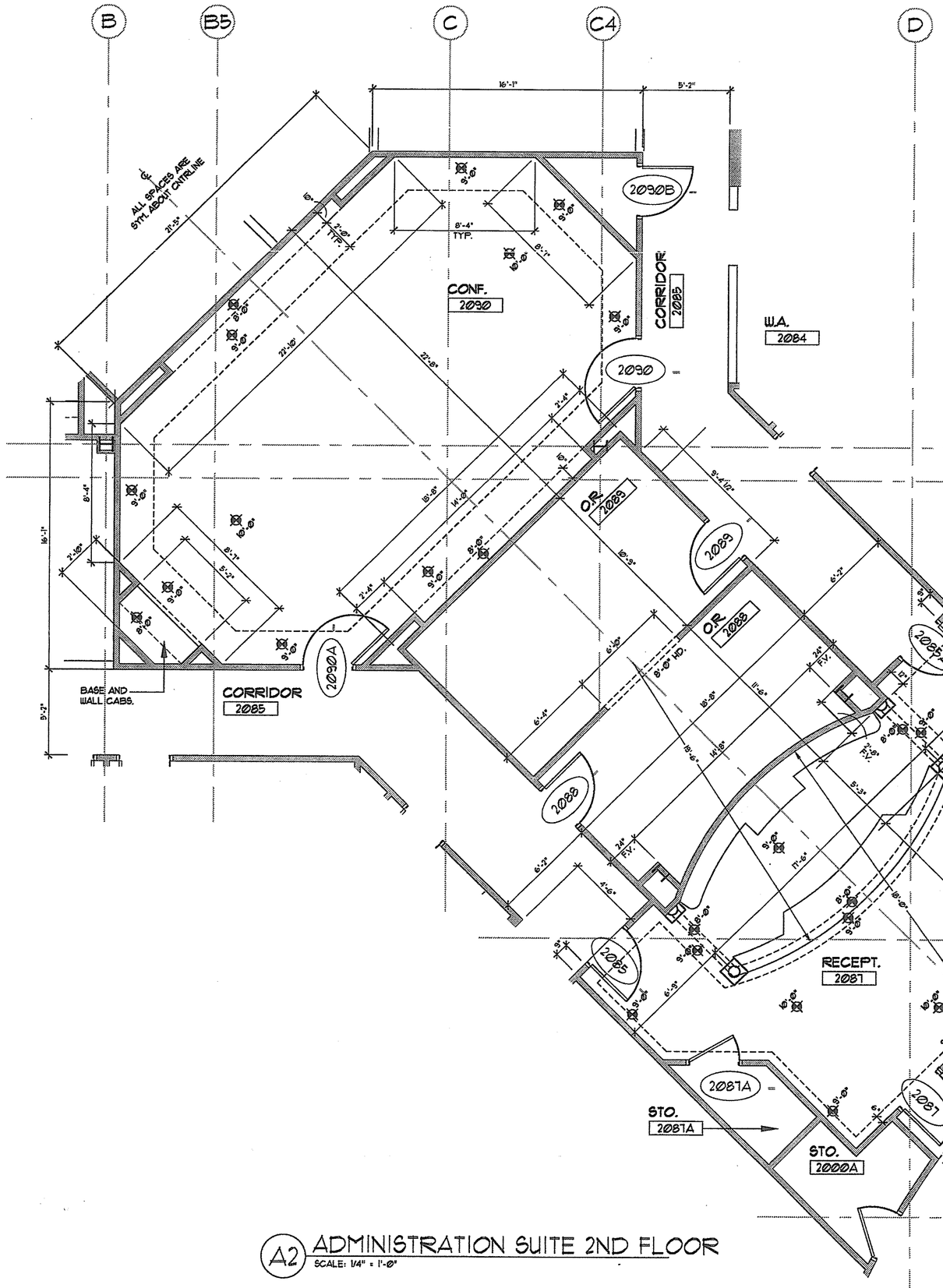
PANAMA CITY, FLORIDA

SHEET TITLE:
ENLARGED TOILET PLANS

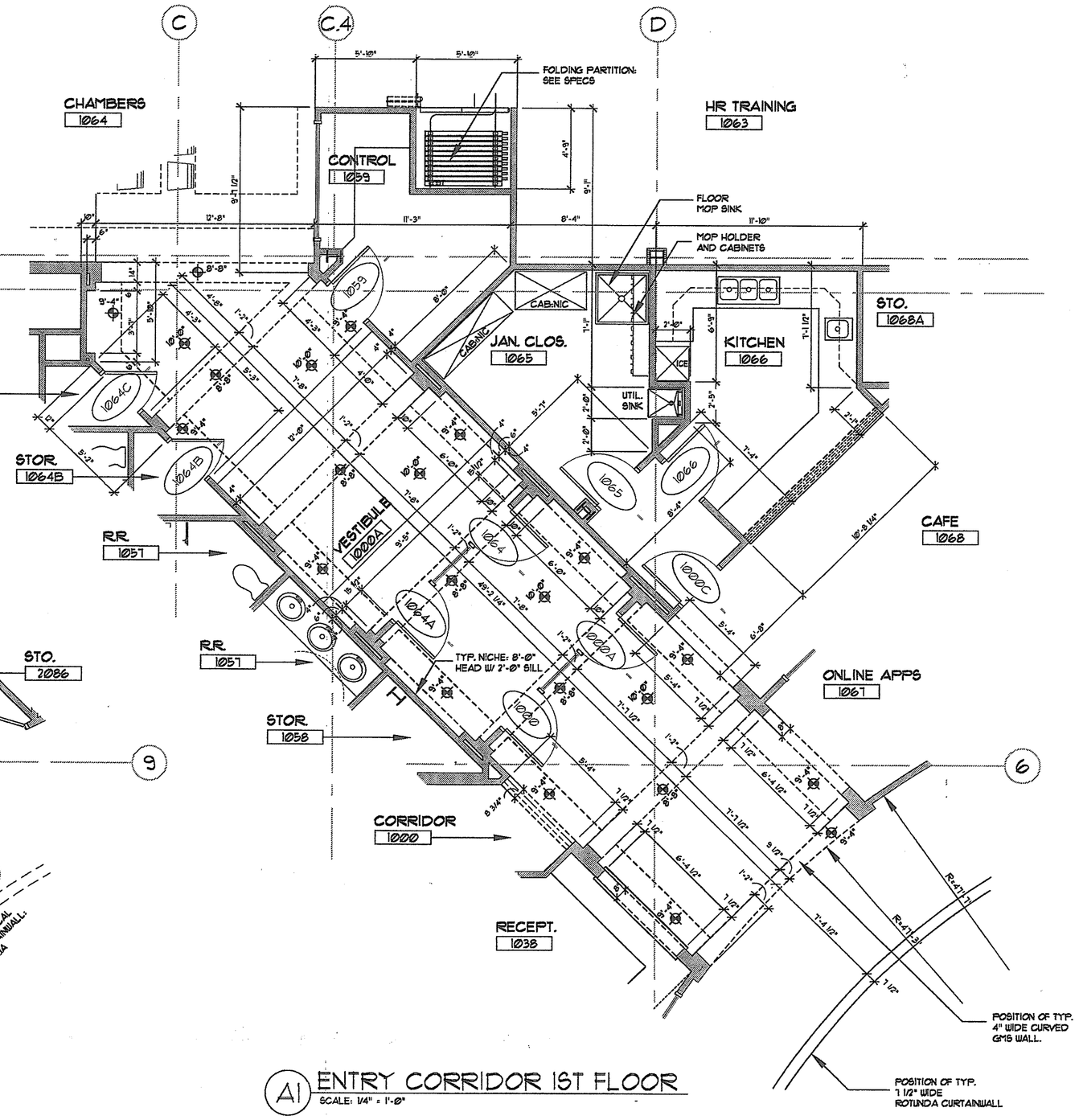
SHEET NUMBER:
A2.4



B1 ELEVATOR
SCALE: 3/4" = 1'-0"



A2 ADMINISTRATION SUITE 2ND FLOOR
SCALE: 1/4" = 1'-0"



A1 ENTRY CORRIDOR 1ST FLOOR
SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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FAX: (850) 230-3584
Commission Number: 08318

CONSULTANTS:

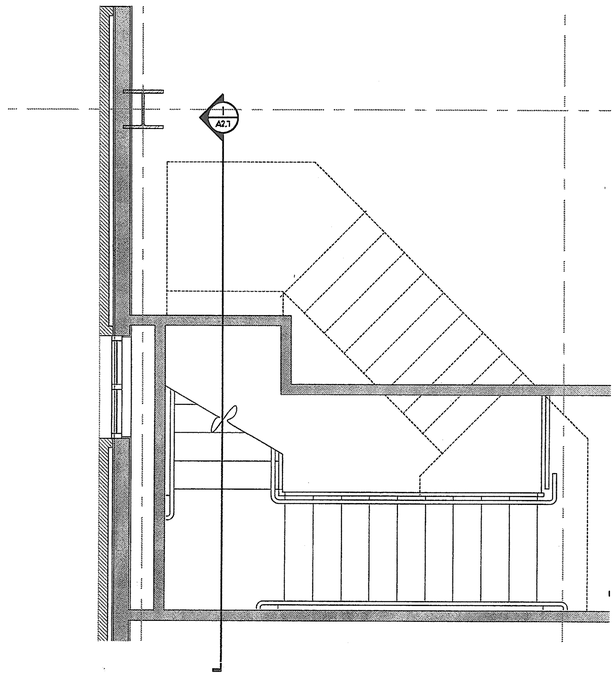
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

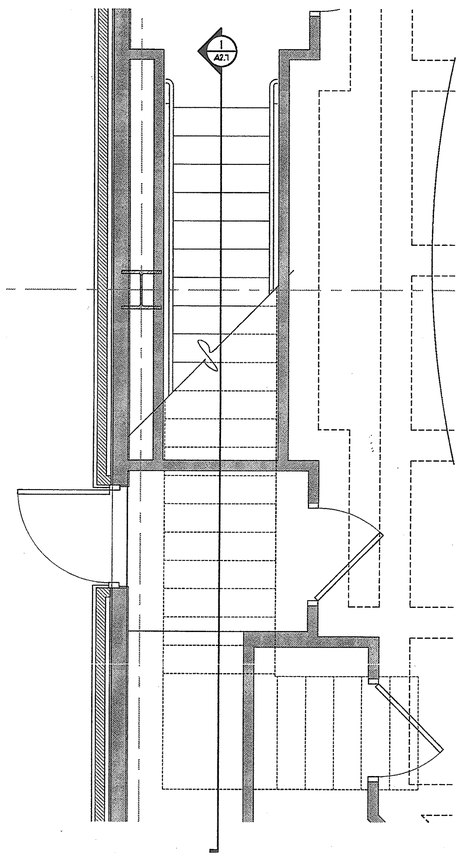
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ENLARGED PLANS

SHEET NUMBER:
A2.5

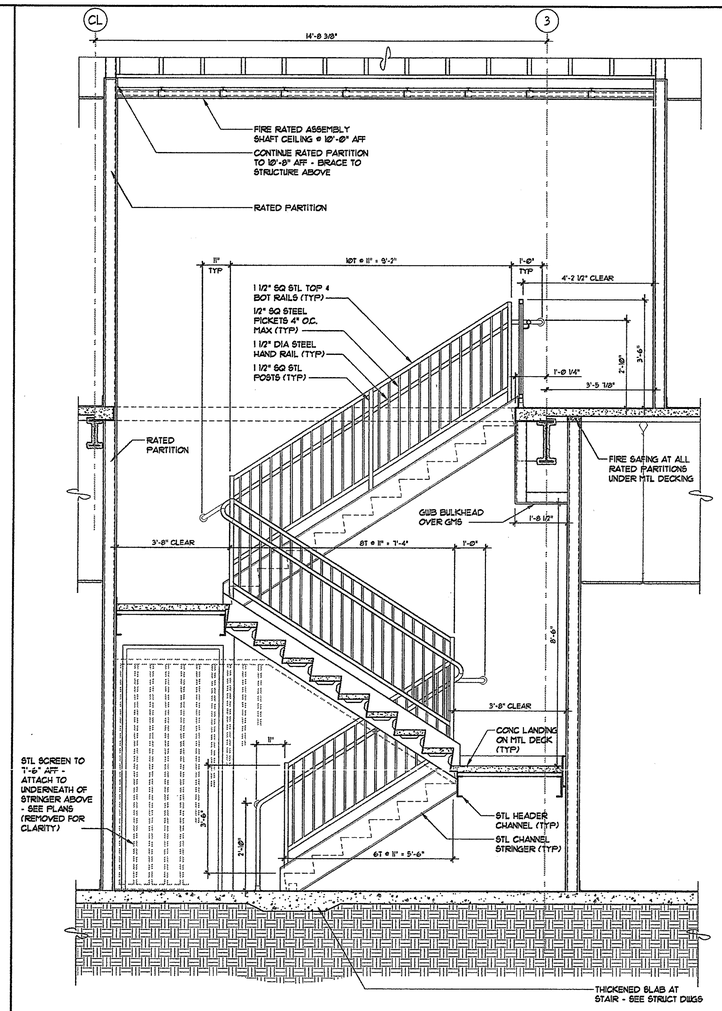
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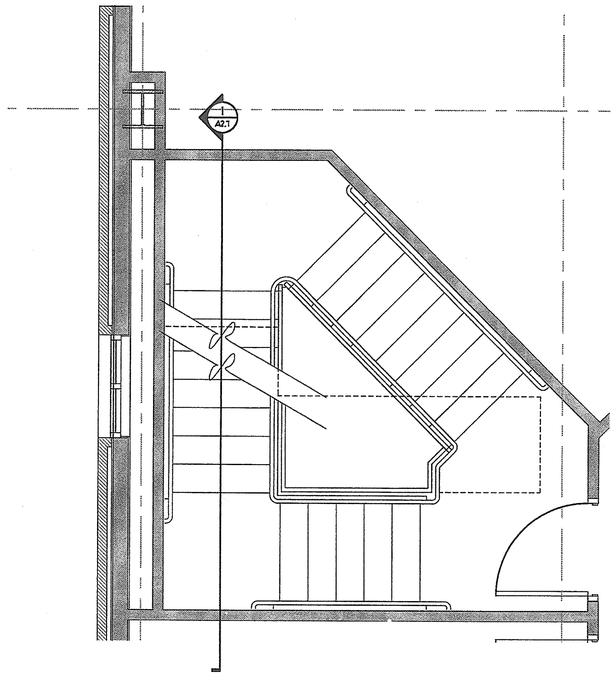
6 STAIR PLAN - THIRD FLOOR
SCALE: 1/2" = 1'-0"



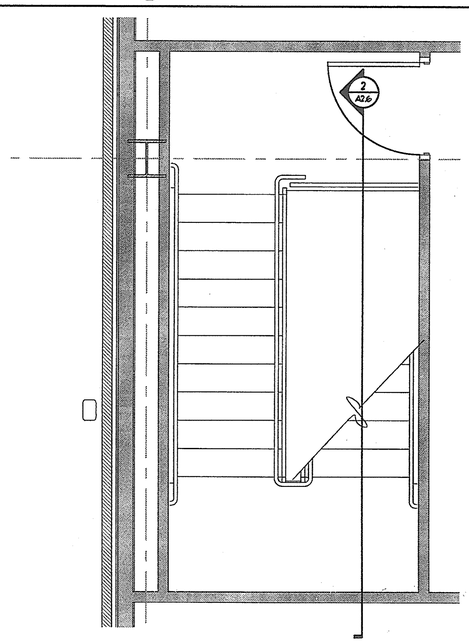
4 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0"



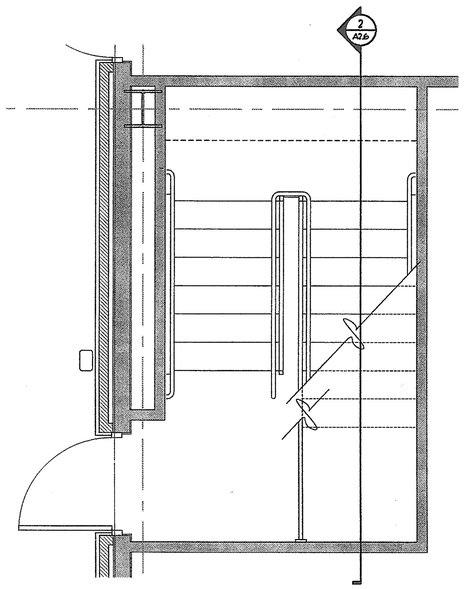
2 STAIR SECTION
SCALE: 1/2" = 1'-0"



5 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0"



3 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0"



1 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0"

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

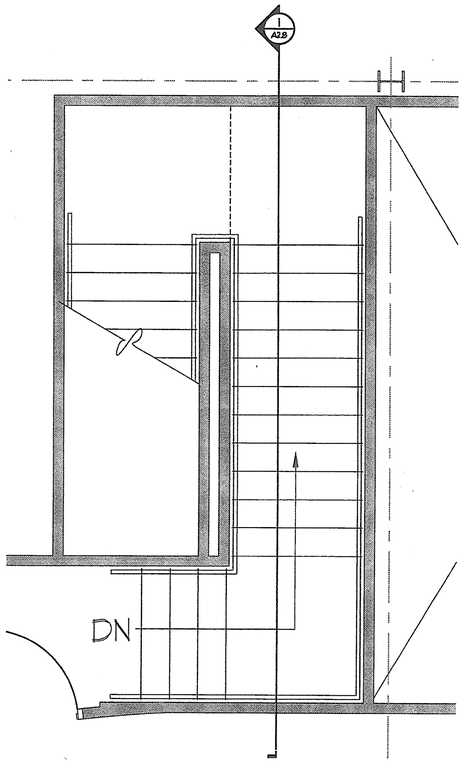
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

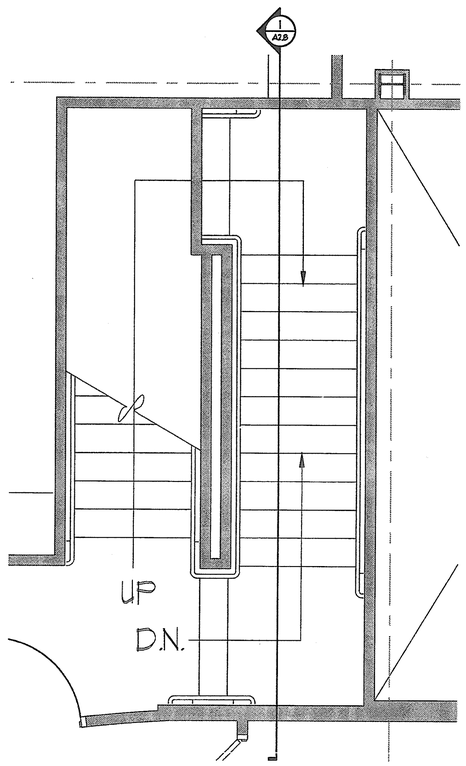
SHEET TITLE:
ENLARGED PLANS - STAIRS

SHEET NUMBER:
A2.6

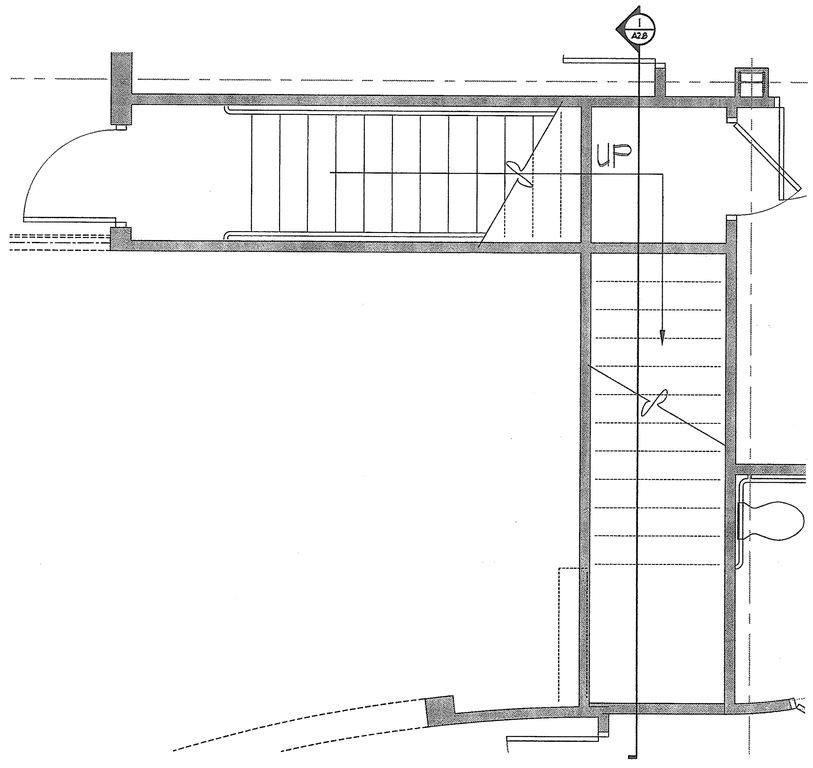
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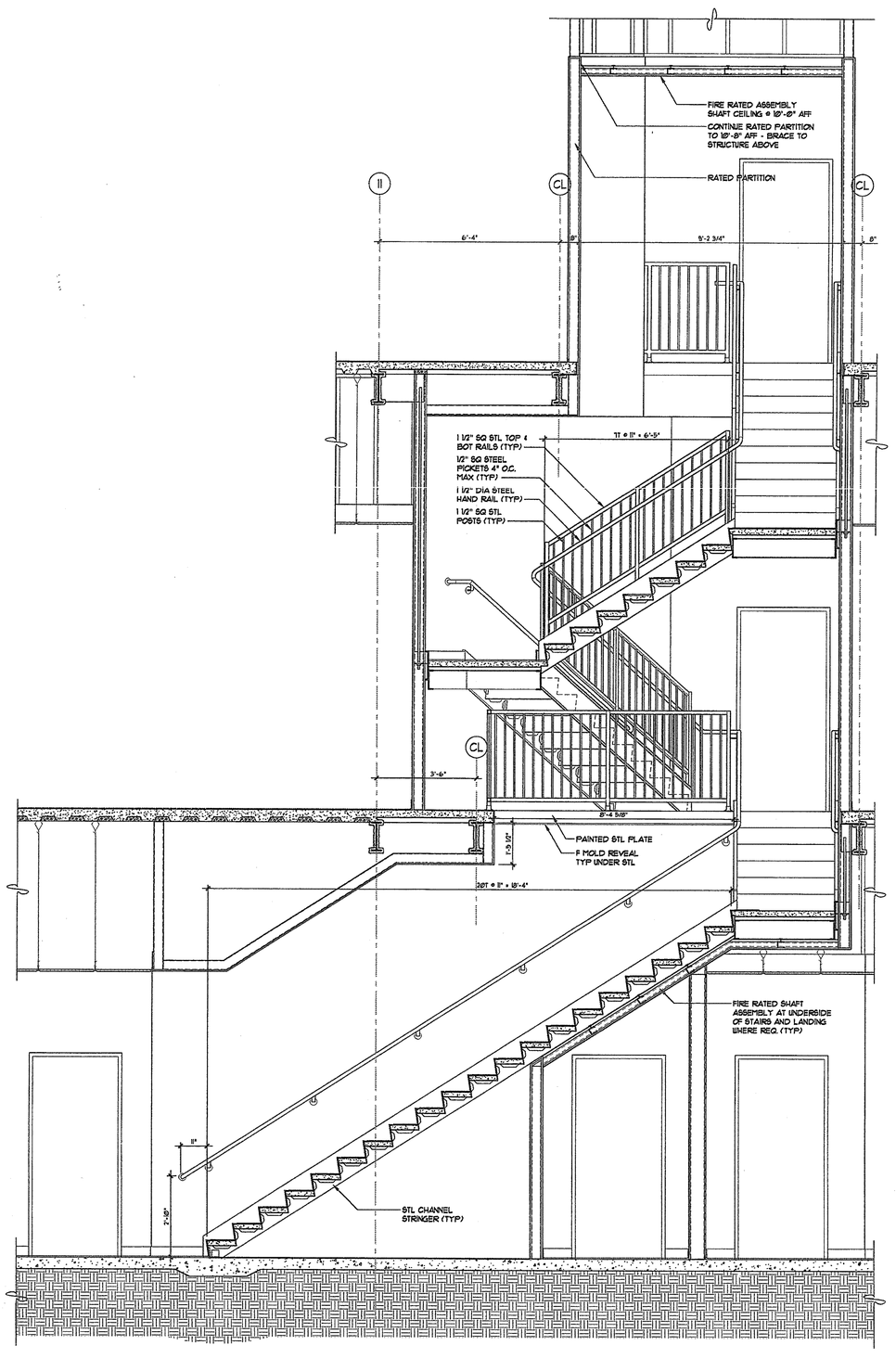
4 STAIR PLAN - THIRD FLOOR
SCALE: 1/2" = 1'-0" A-EP03.DWG



3 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-EP02.DWG



2 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0" A-EP01.DWG



1 STAIR SECTION
SCALE: 1/2" = 1'-0" A-SE02.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 06318

CONSULTANTS:

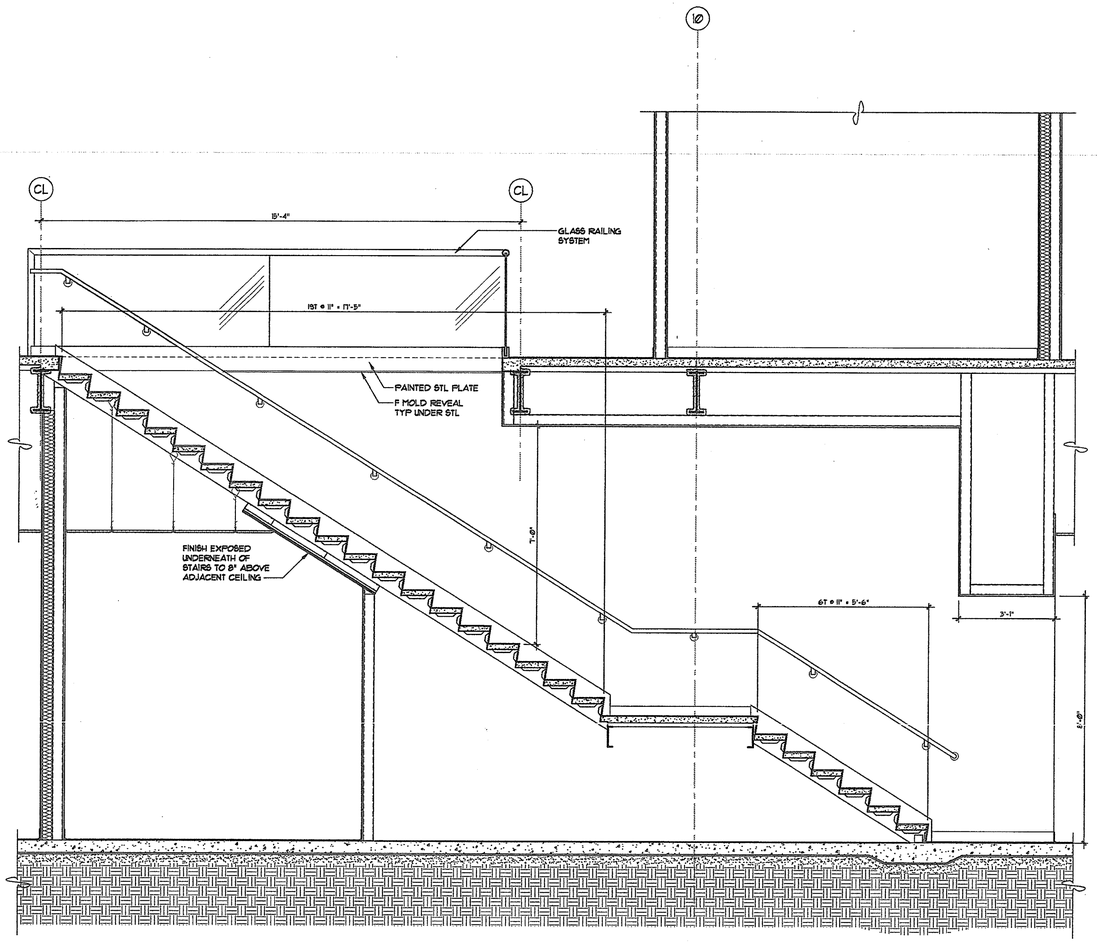
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

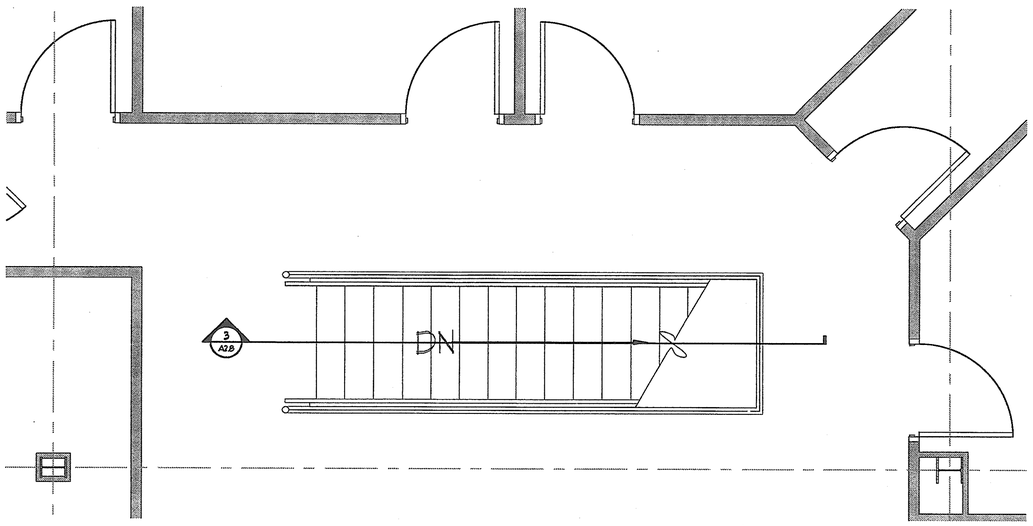
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ENLARGED PLANS - STAIRS

SHEET NUMBER:
A2.7

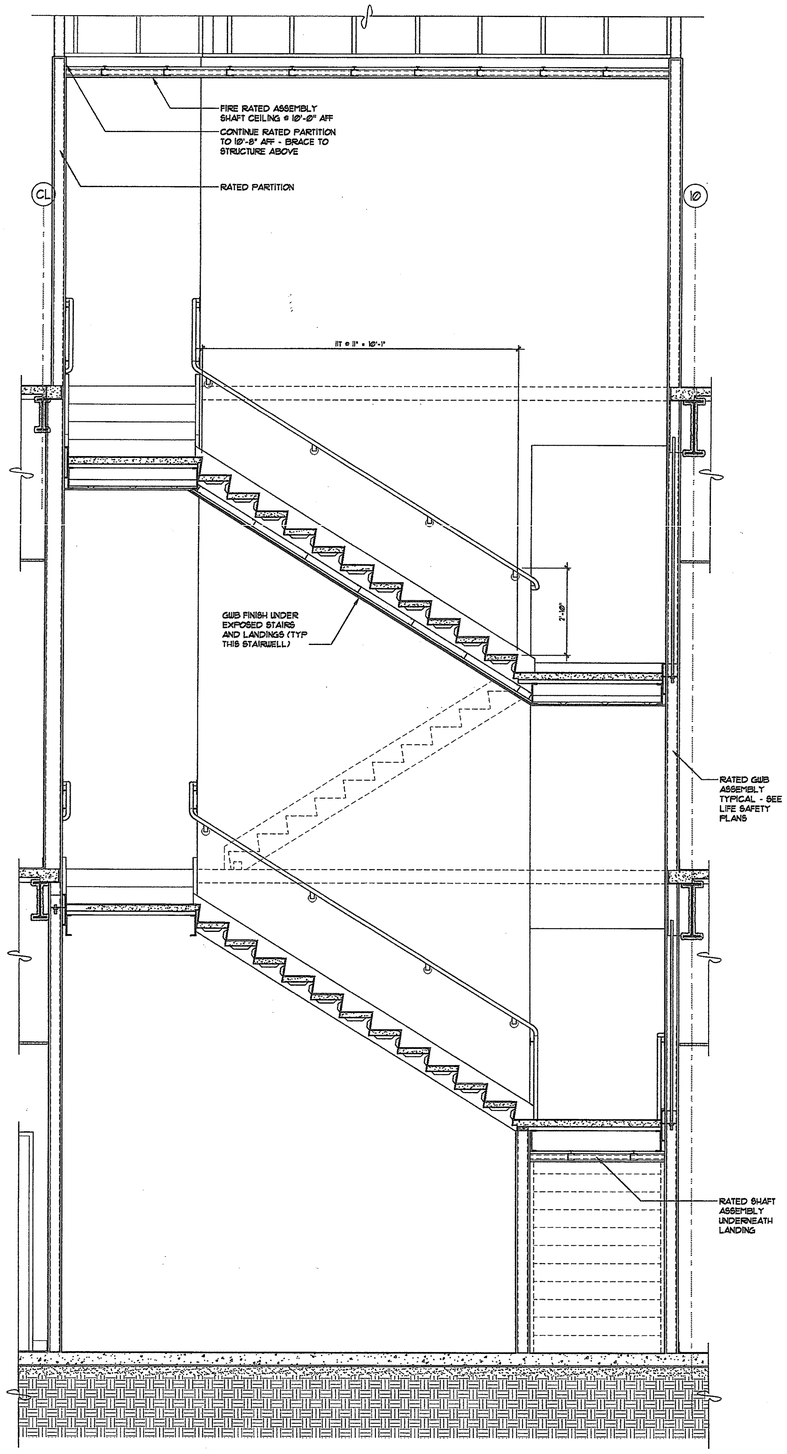
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3 STAIR SECTION
SCALE: 1/2" = 1'-0" A-STR4.DWG



2 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-EP03.DWG



1 STAIR SECTION
SCALE: 1/2" = 1'-0" A-STR3.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05/23/06
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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FAX: (850) 230-3594
Commission Number: 06318

CONSULTANTS:

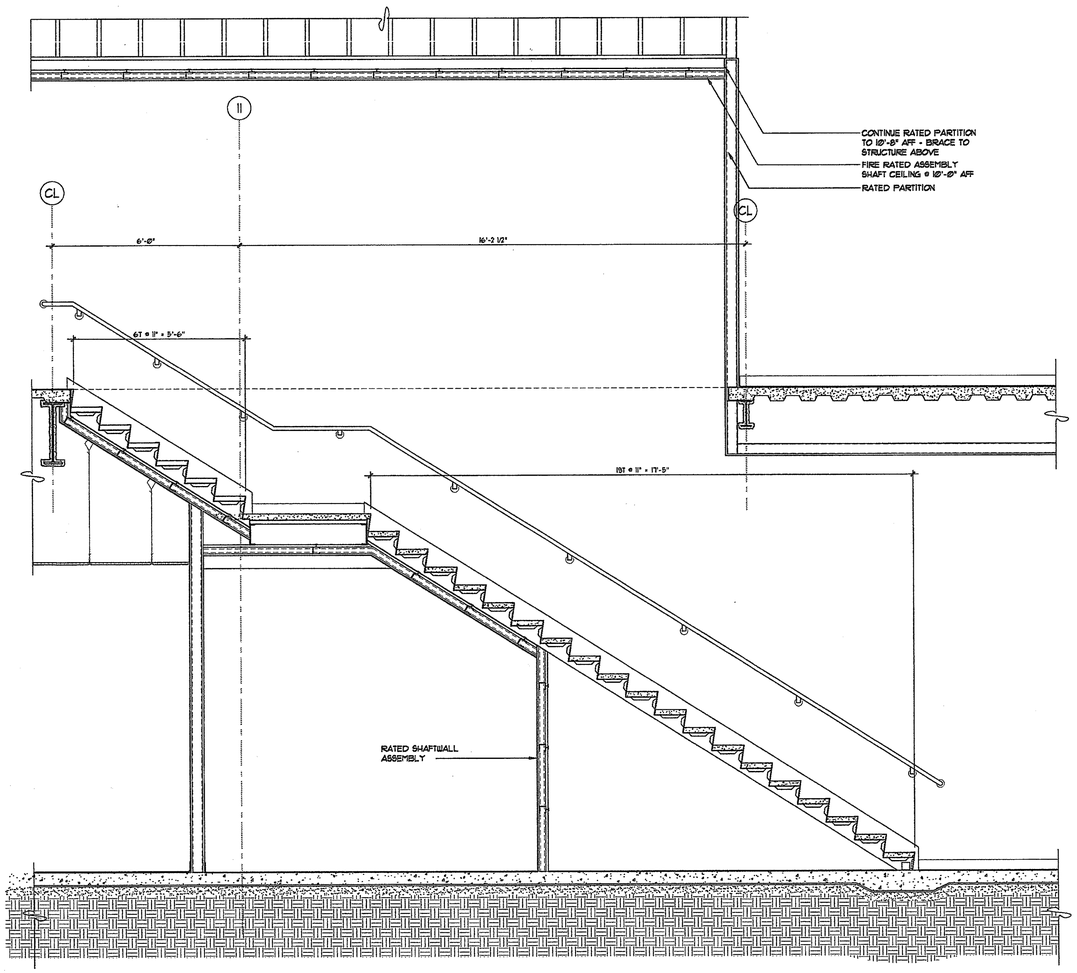
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

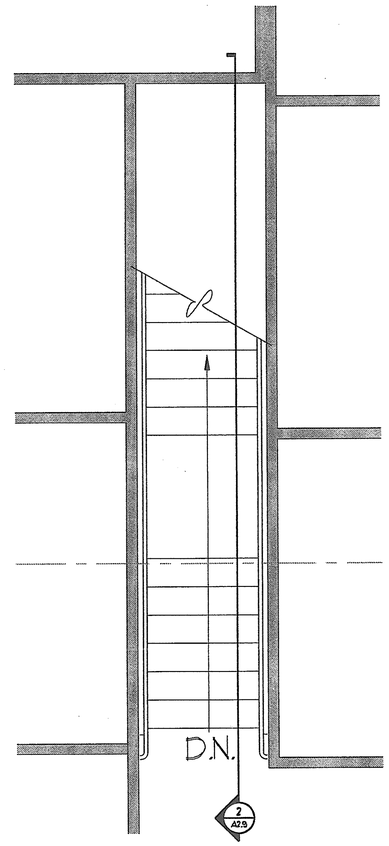
SHEET TITLE:
ENLARGED PLANS - STAIRS

SHEET NUMBER:
A2.8

\\thsnorfsjob\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A2 - EQUIPMENT PLANS\A2.8 ENLARGED PLANS - STAIRS.dwg, 3/20/2008 10:42:55 AM, djackson



2 STAIR SECTION
SCALE: 1/2" = 1'-0" A-0709.DWG



1 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-0904.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05/08/06
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ENLARGED PLANS - STAIRS

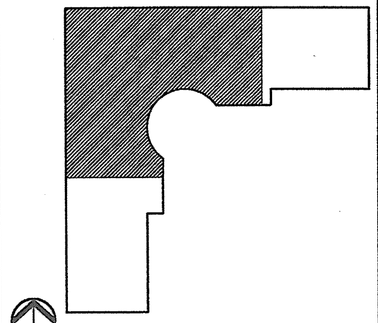
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FIRST FLOOR - ZONE A REFLECTED CEILING PLAN

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



KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI #8 - CODE REVIEW			5/30/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-8832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

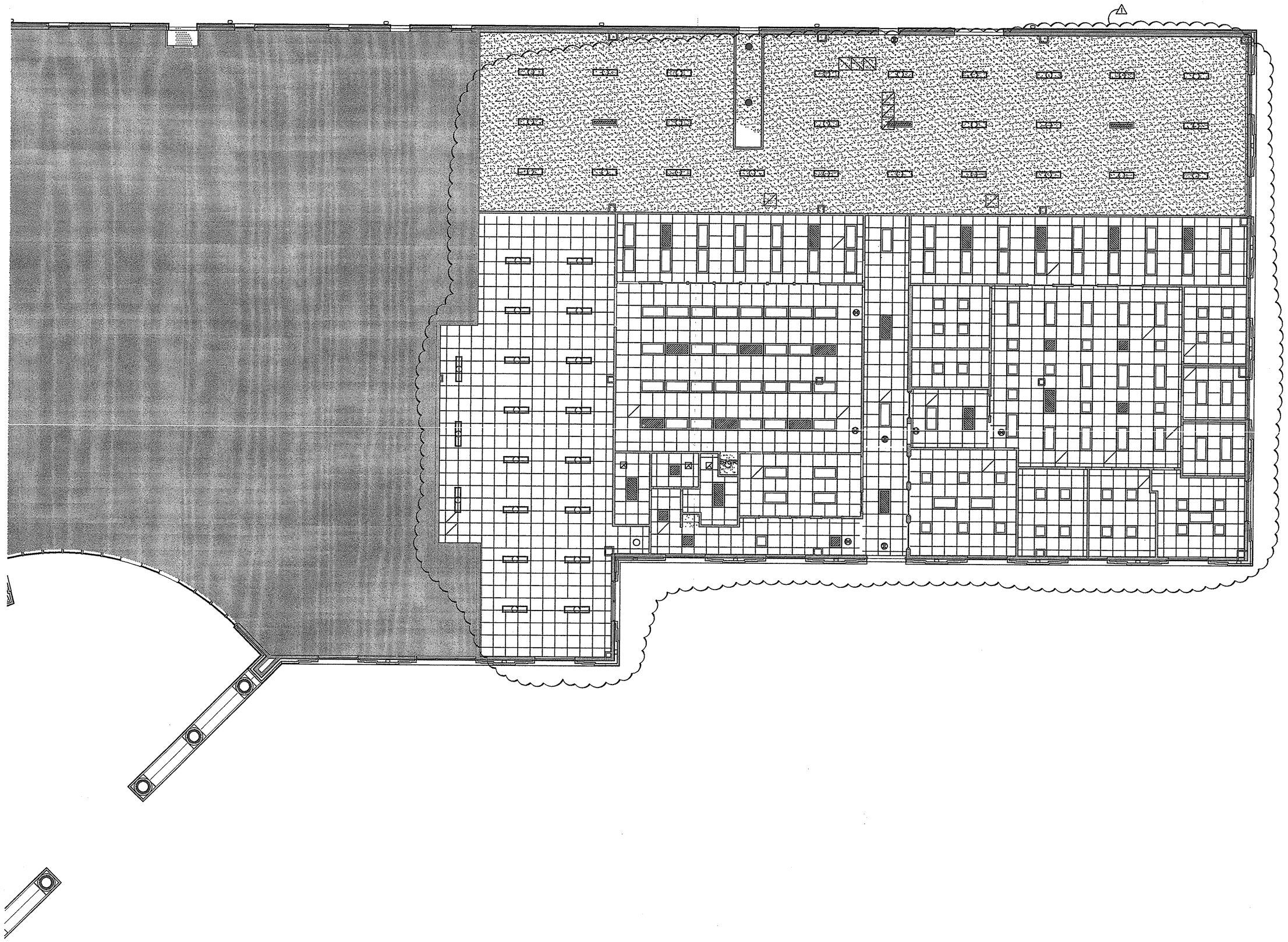
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A REFLECTED CEILING PLAN

SHEET NUMBER:

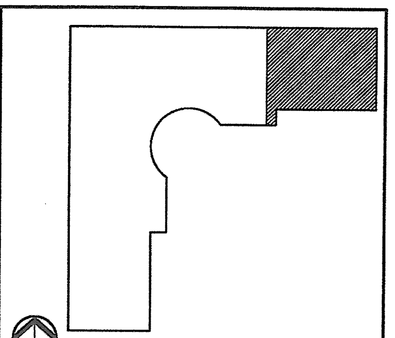
A3.1A



NORTH

FIRST FLOOR - ZONE B REFLECTED CEILING PLAN

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



NORTH

KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI #3 - OWNER REQUESTED PLAN CHANGES			6/11/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-20-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

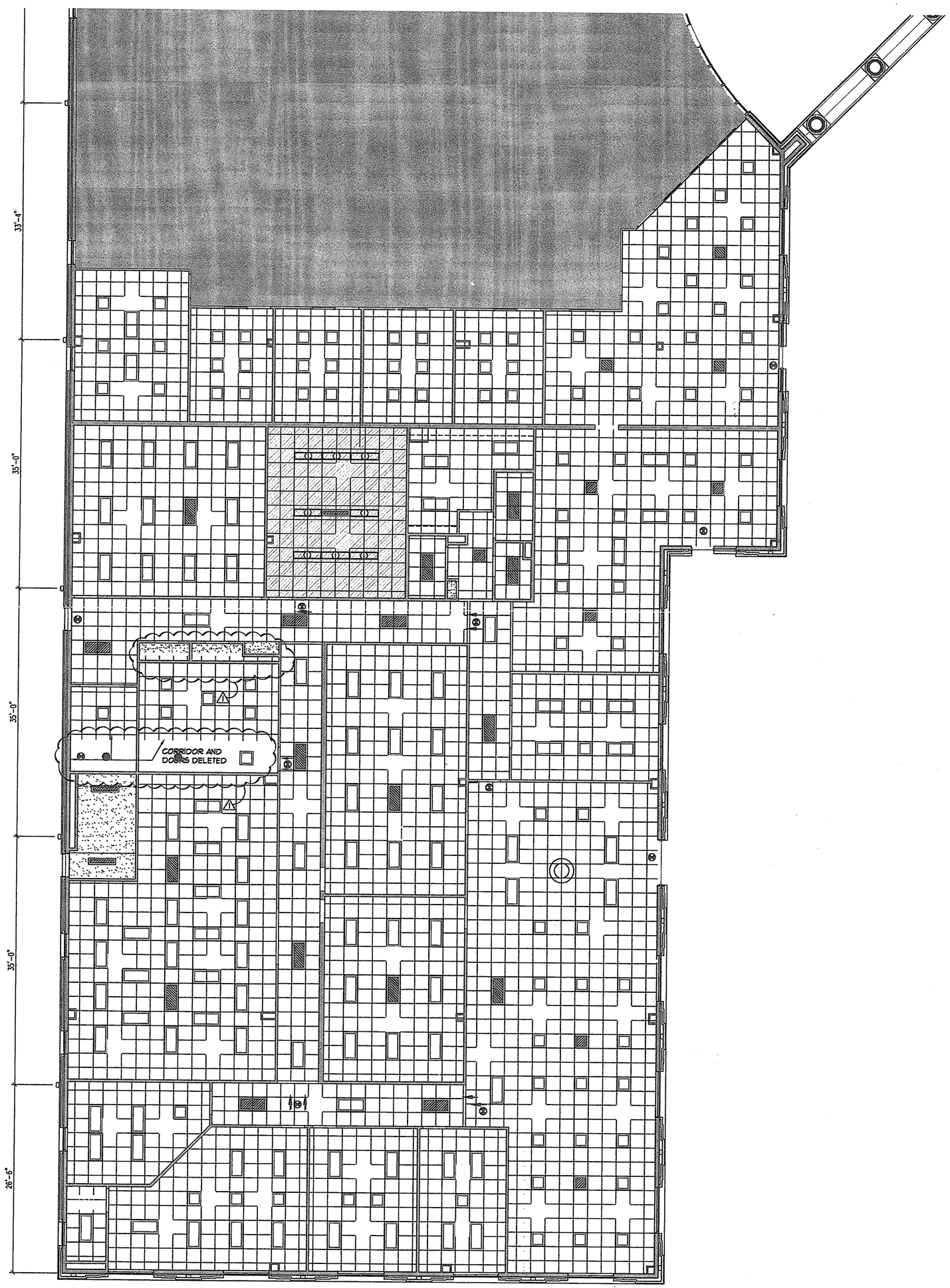
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B
REFLECTED CEILING PLAN

SHEET NUMBER:

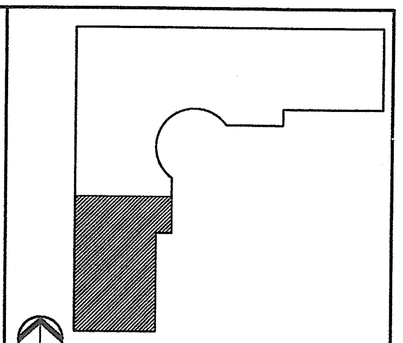
A3.1B



NORTH

FIRST FLOOR - ZONE C REFLECTED CEILING PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI #21 - PLAN CHANGES			9/5/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-26-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 235-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C REFLECTED CEILING PLAN

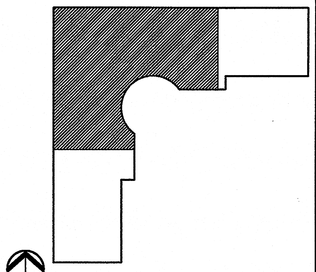
SHEET NUMBER:

A3.1C



SECOND FLOOR - ZONE A REFLECTED CEILING PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 12 - ELEVATOR ROOM RELOCATION			8/01/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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PHONE: (850) 236-6832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

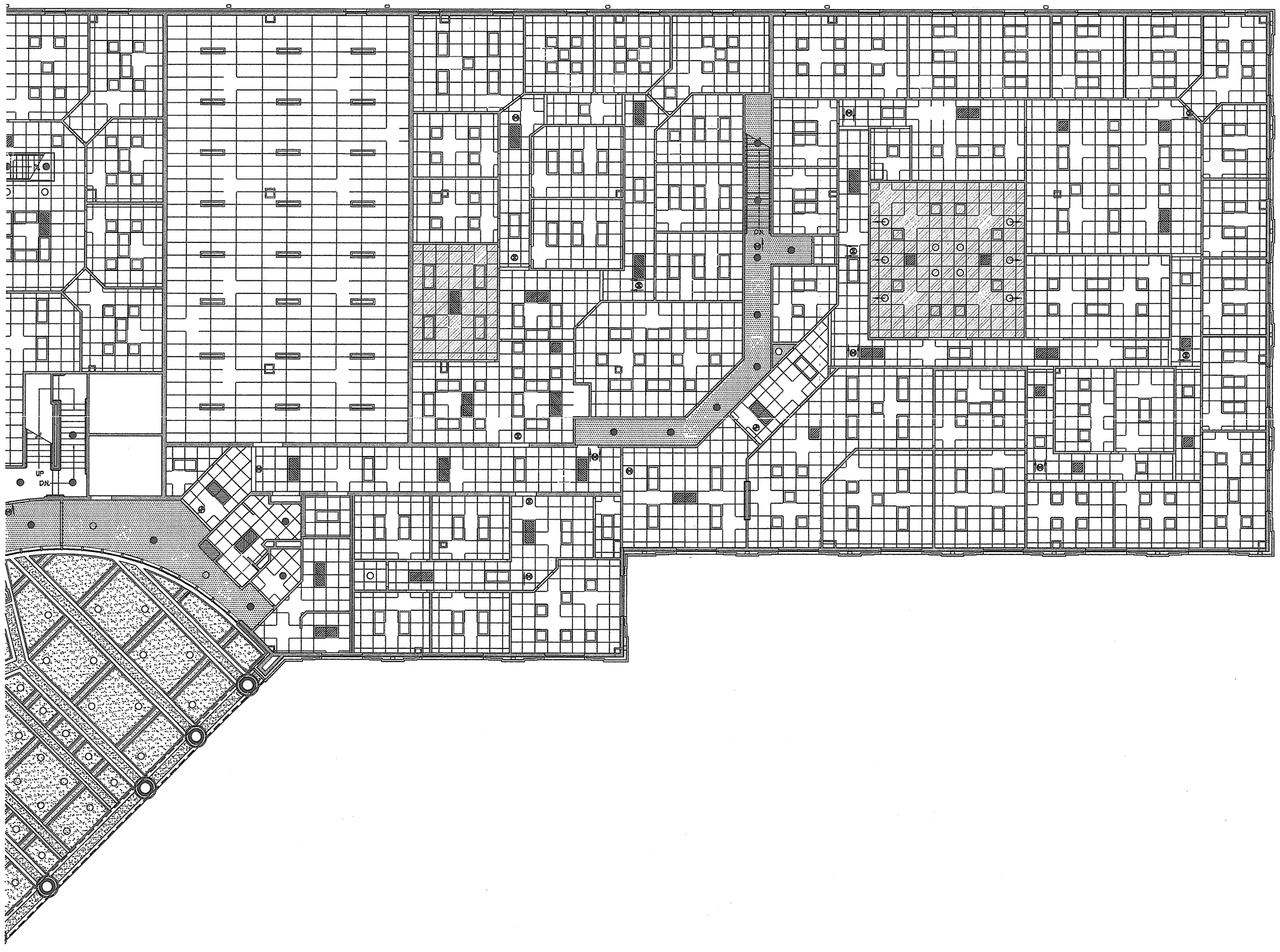
PANAMA CITY, FLORIDA

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SECOND FLOOR ZONE A REFLECTED CEILING PLAN

SHEET NUMBER:

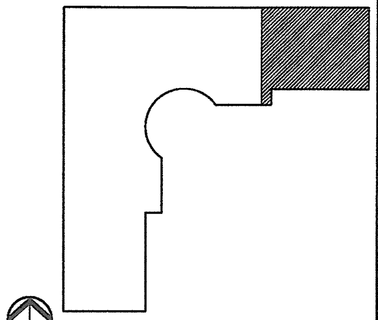
A3.2A



NORTH

SECOND FLOOR - ZONE B REFLECTED CEILING PLAN

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



NORTH

KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2905 THOMAS DRIVE SUITE 105
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PHONE: (850) 235-5532
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

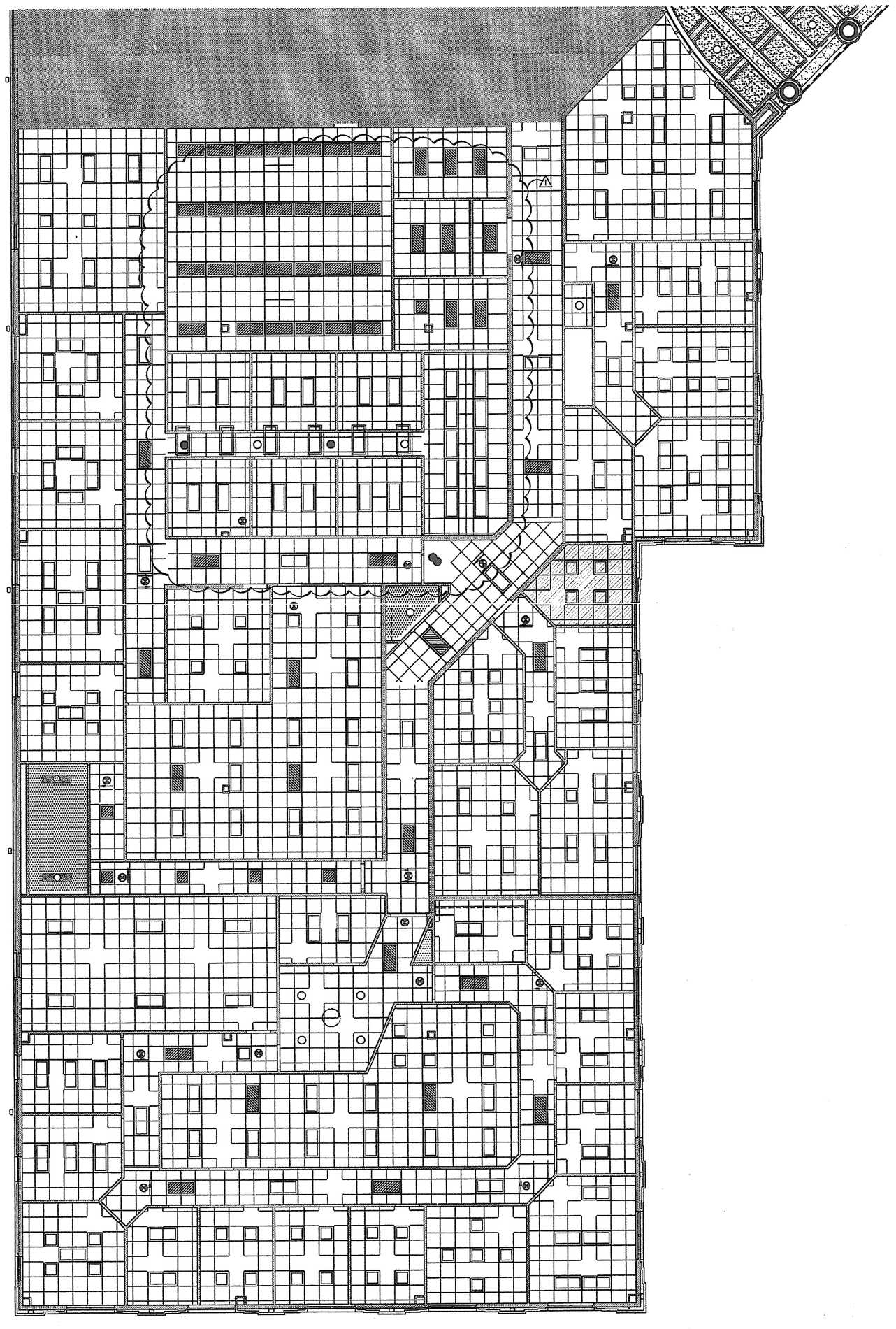
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B
REFLECTED CEILING PLAN

SHEET NUMBER:

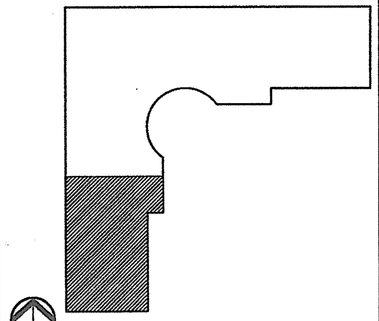
A3.2B



NORTH

SECOND FLOOR - ZONE C REFLECTED CEILING PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- EIFS SOFFIT
- SUSPENDED GYPSUM BOARD CEILING
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI #3 - OWNER REQUESTED PLAN CHANGES			6/17/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	05-04-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2505 THOMAS DRIVE SUITE 105
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PHONE: (850) 235-5832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

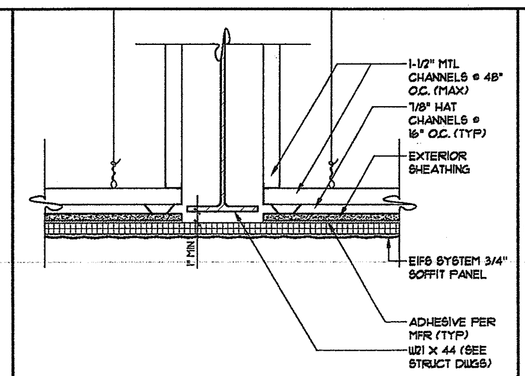
PANAMA CITY, FLORIDA

SHEET TITLE:

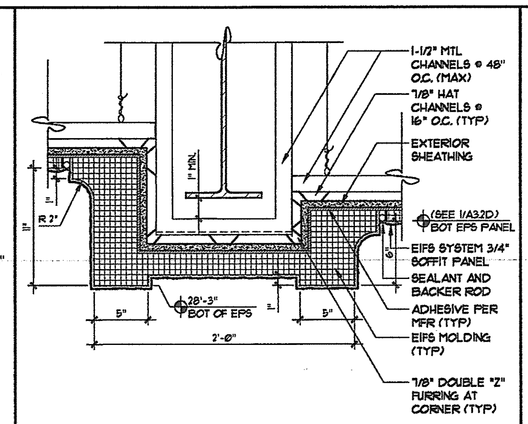
SECOND FLOOR ZONE C REFLECTED CEILING PLAN

SHEET NUMBER:

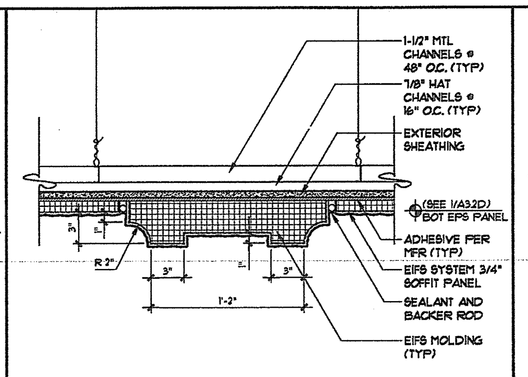
A3.2C



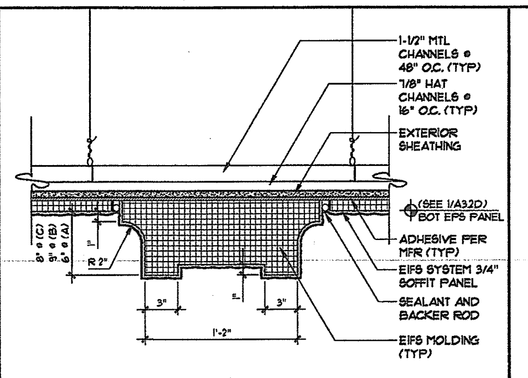
5 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-053.DWG



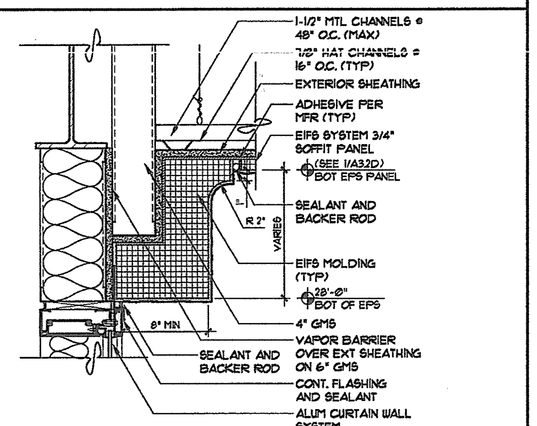
4 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-053.DWG



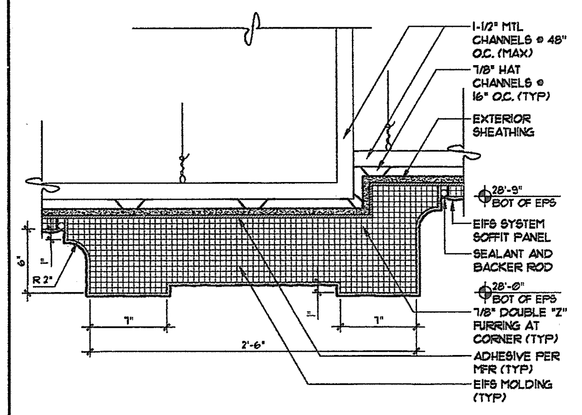
3 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-053.DWG



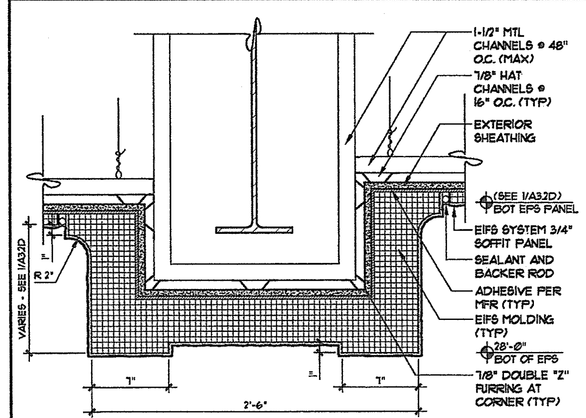
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SCALE: 1 1/2" = 1'-0" A-DT-053.DWG



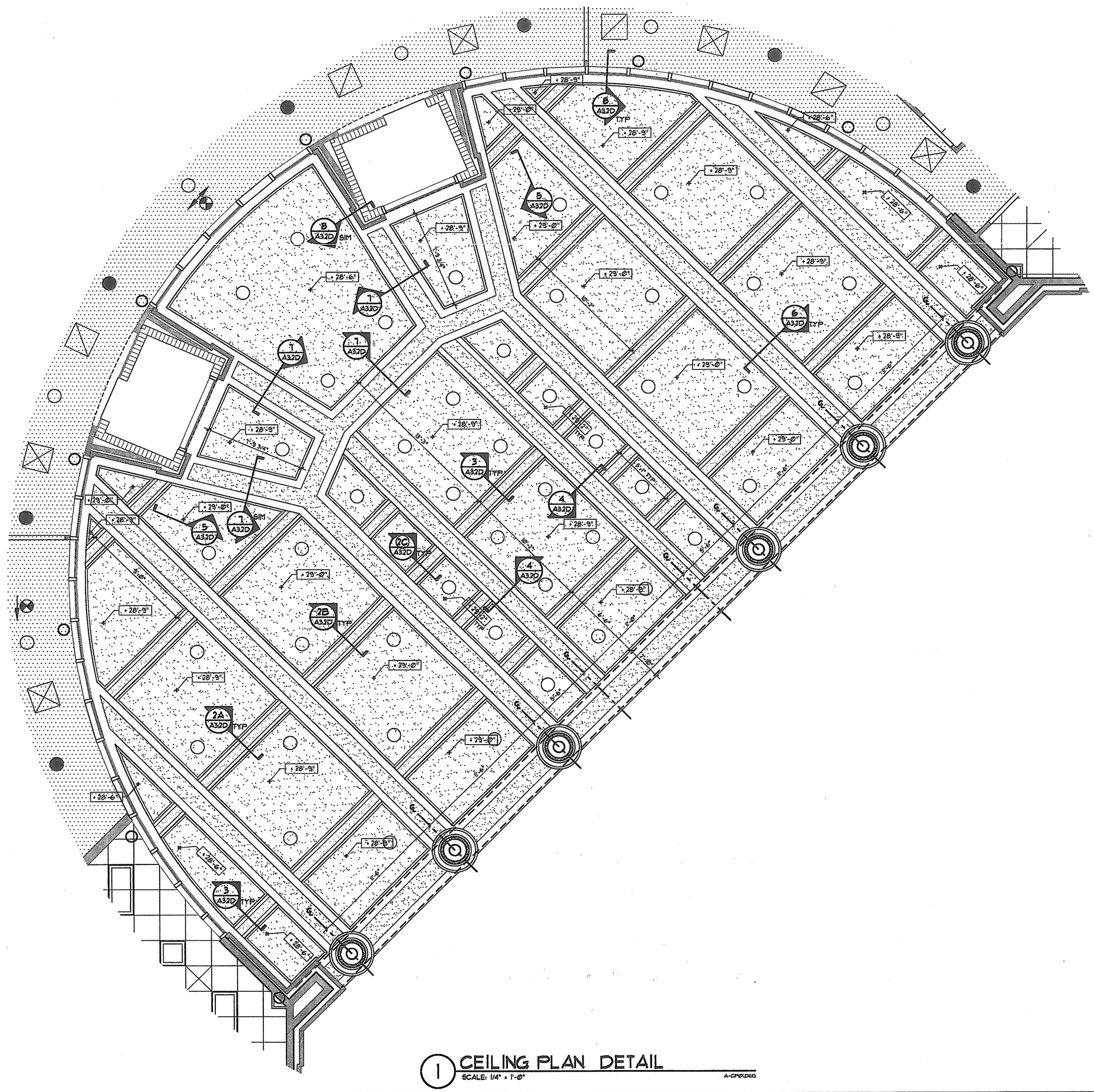
8 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-058.DWG



7 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-054.DWG



6 SOFFIT TRIM DETAIL
SCALE: 1 1/2" = 1'-0" A-DT-056.DWG



1 CEILING PLAN DETAIL
SCALE: 1/4" = 1'-0" A-CP01.DWG

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	RFI: 34 (ENTIRE SHEET)	CJ	DB	8/6/108

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	3-14-08
DESIGN DEVELOPMENT	-	-	05-05-07
DD OWNER REVIEW	-	-	09-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-15-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

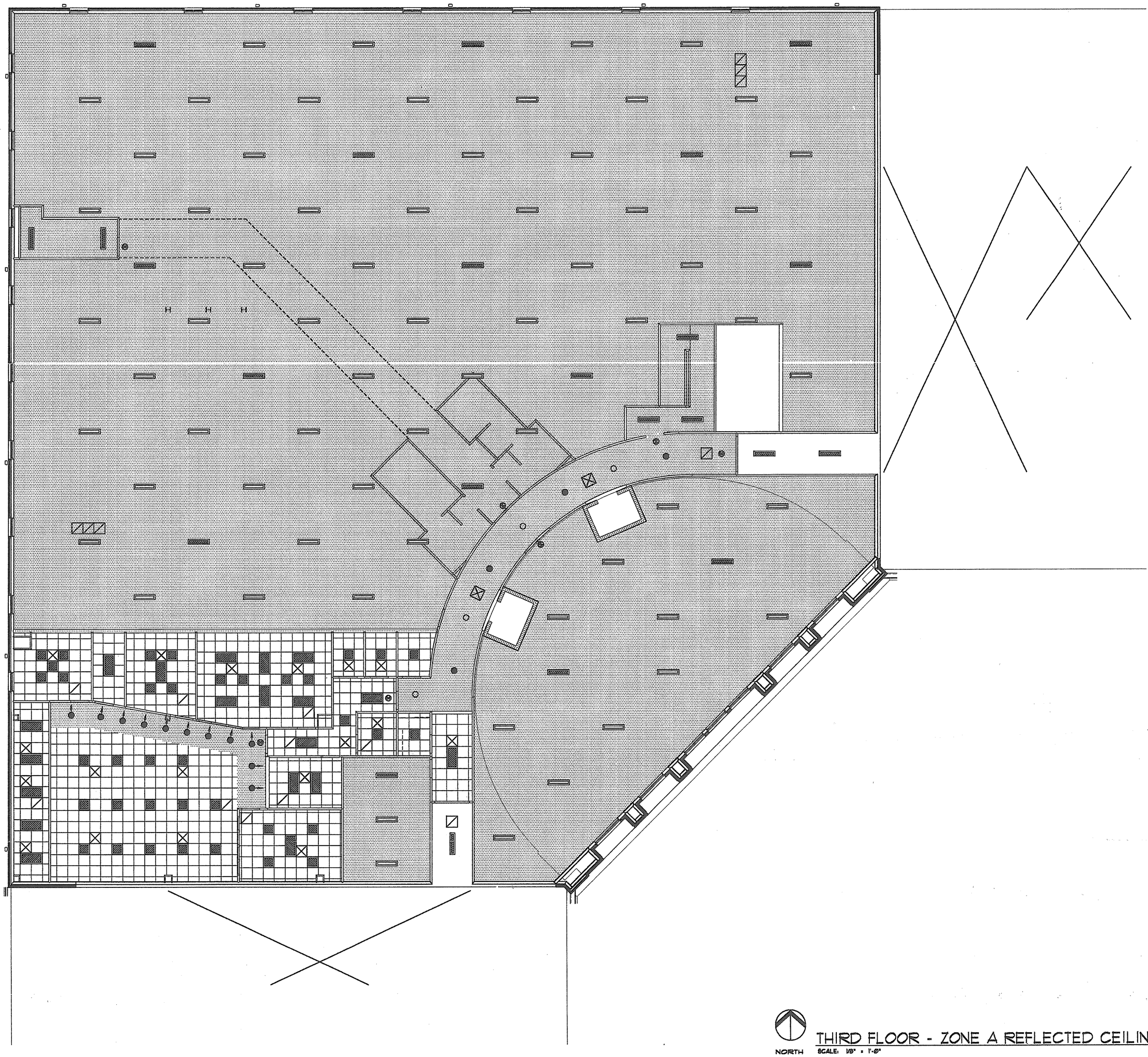
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ENLARGED REFLECTED CEILING PLANS & DETAILS

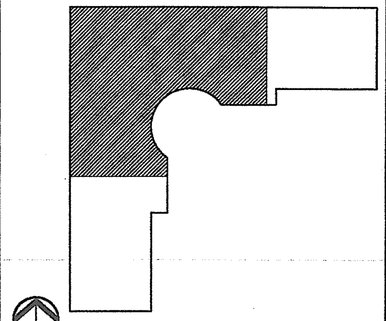
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\\ftsserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A3 - REFLECTED CEILING PLANS\A3.3A THIRD FLOOR ZONE A REFLECTED CEILING PLAN.dwg, 3/18/2008 11:29:59 AM, cjackson



THIRD FLOOR - ZONE A REFLECTED CEILING PLAN

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



NORTH KEY PLAN SCALE: N.T.S.

CEILING LEGEND & NOTES

- SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED, 2'x2' HIGH-DENSITY CERAMIC CEILING TILE SYSTEM
- DBL. REVEAL EDGE SPECIALTY SUSPENDED 2'x2' ACOUSTIC CEILING TILE SYSTEM
- SUSPENDED GYPSUM BOARD CEILING
- EIFS SOFFIT
- EXPOSED STRUCTURE

NOTES

1. SEE MECHANICAL, PLUMBING, ELECTRICAL AND COMMUNICATIONS SHEETS FOR ADDITIONAL CEILING FIXTURES AND INFORMATION AND FOR MEZZANINE LIGHTING.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-9932
FAX: (850) 230-3894
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

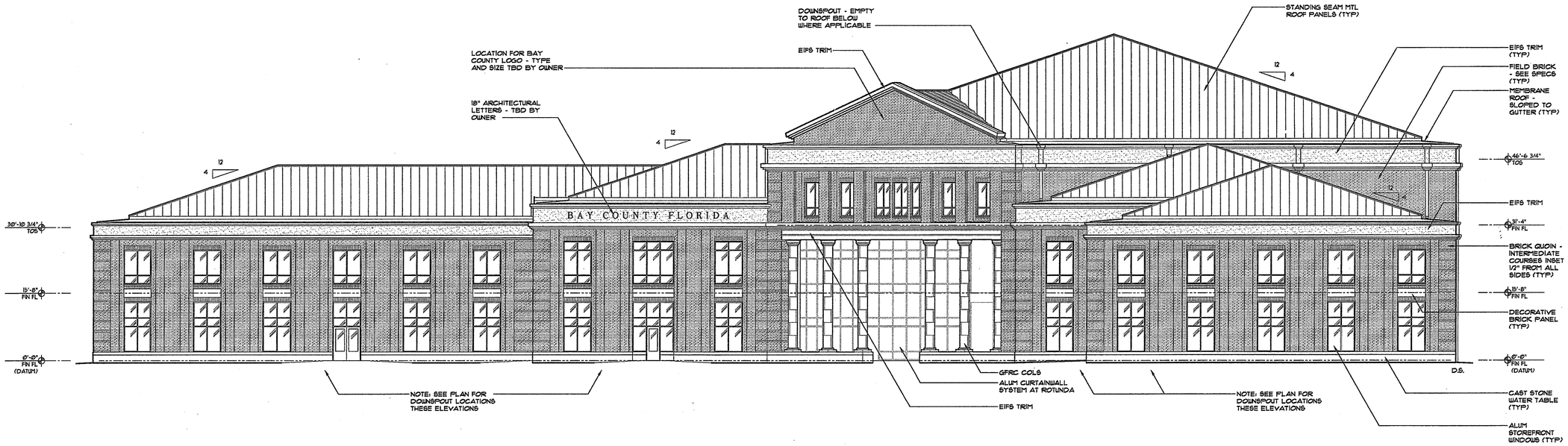
PANAMA CITY, FLORIDA

SHEET TITLE:

THIRD FLOOR ZONE A
REFLECTED CEILING PLAN

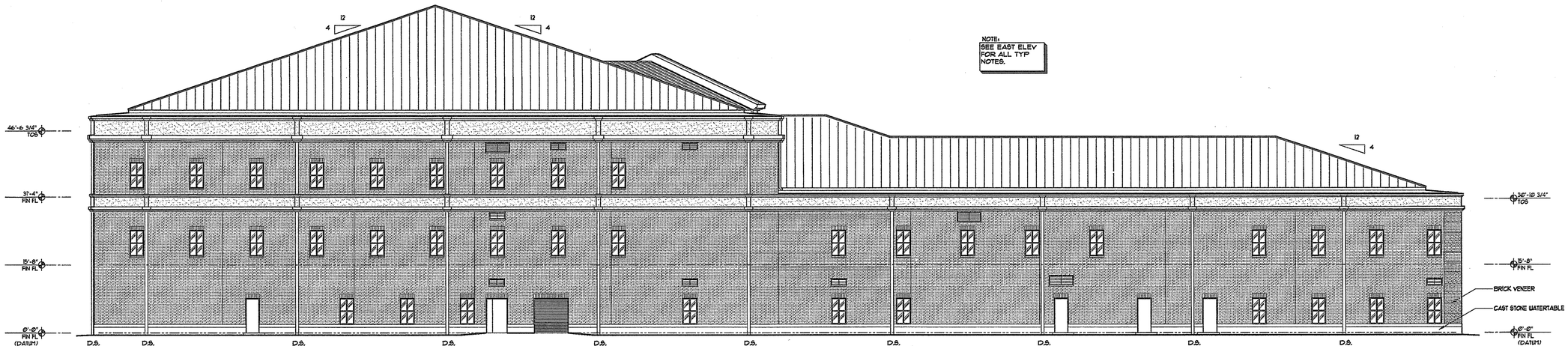
SHEET NUMBER:

A3.3A



EAST ELEVATION

SCALE: 3/32" = 1'-0" A-EL-EIDGS



WEST ELEVATION

SCALE: 3/32" = 1'-0" A-EL-EIDGS

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	CJ	DB	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-6832
FAX: (850) 230-3584
Commission Number: 05318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

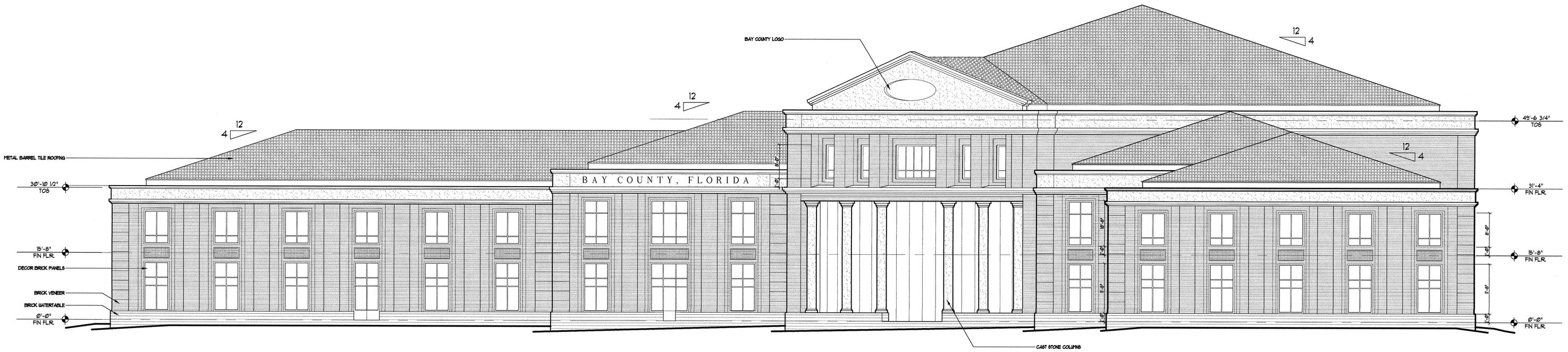
SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

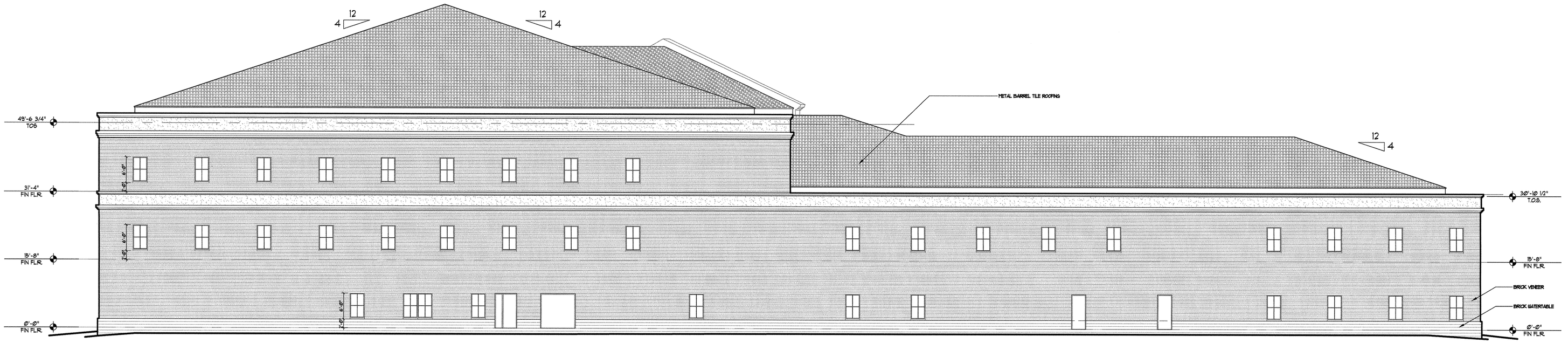
A4.1

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EAST ELEVATION

SCALE: 3/32" = 1'-0" A-EL-01



WEST ELEVATION

SCALE: 3/32" = 1'-0" A-EL-01

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-01
DESIGN DEVELOPMENT	-	-	06-06-01
DD OWNER REVIEW	-	-	08-28-01
75% CONSTRUCTION DOCUMENTS	-	-	11-16-01
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

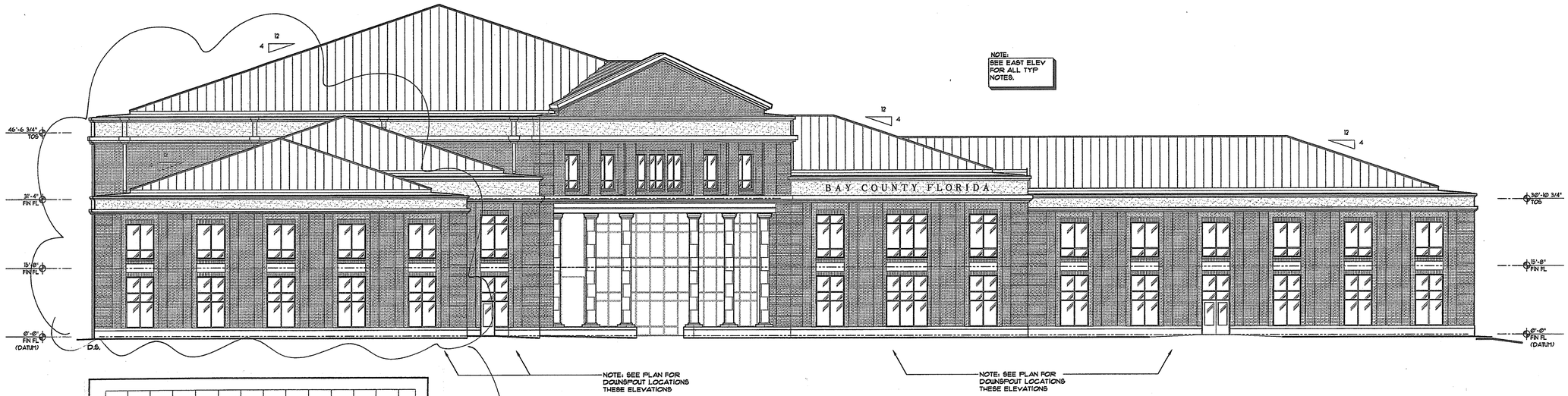
PANAMA CITY, FLORIDA

SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

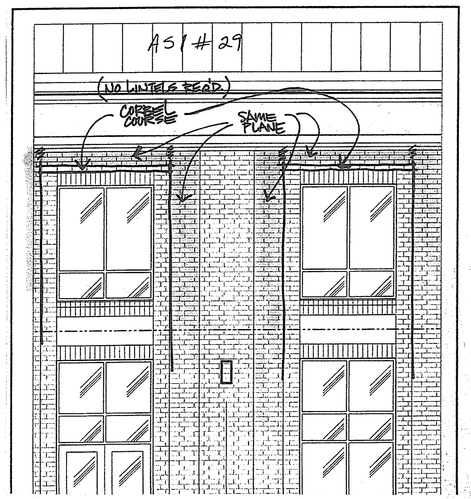
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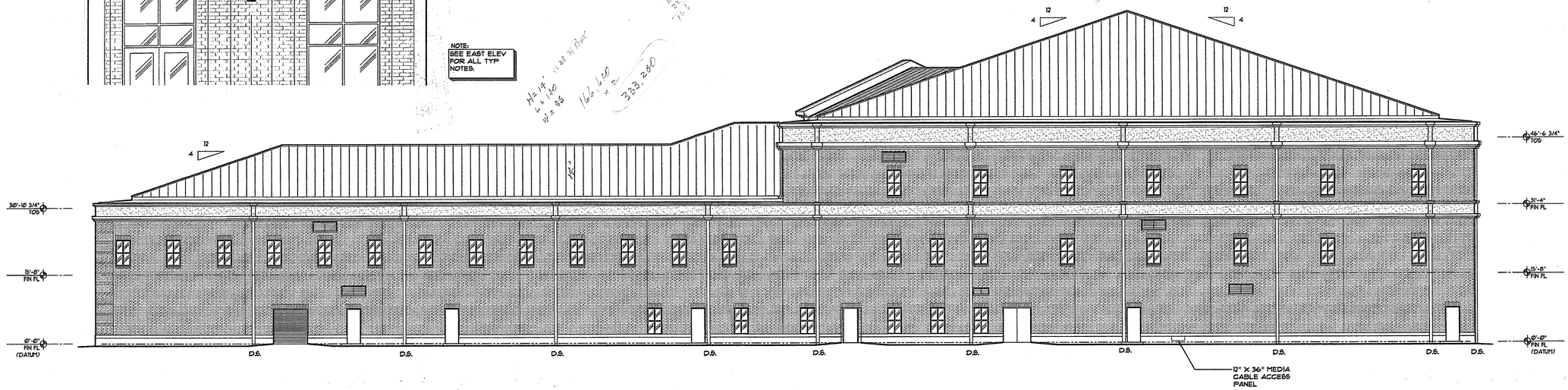
SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

A-EL-BLDG



SEE REVISIONS/ CLARIFICATIONS



NORTH ELEVATION

SCALE: 3/32" = 1'-0"

A-EL-BLDG

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-12-08
BID DOCUMENTS	CJ	DB	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-5532
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

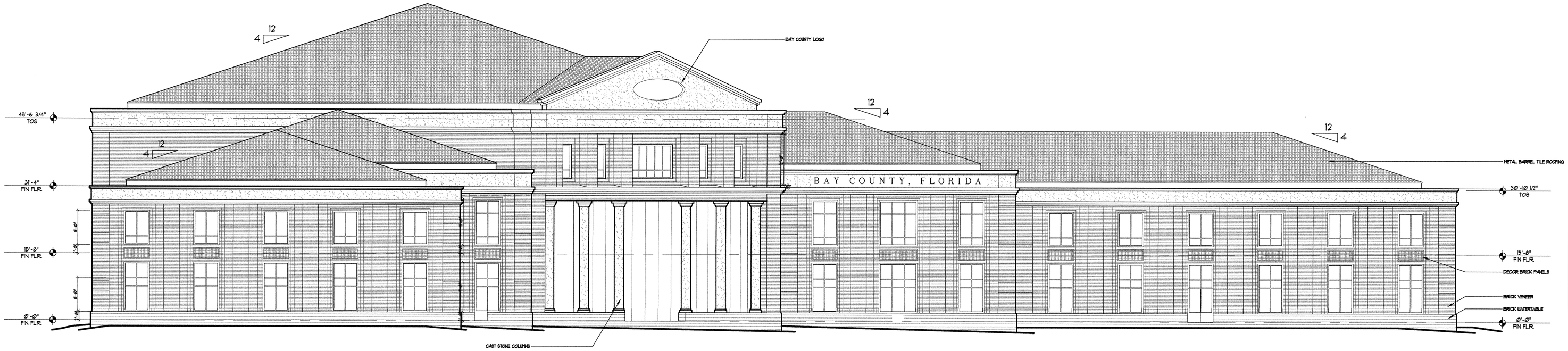
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EXTERIOR ELEVATIONS

SHEET NUMBER:

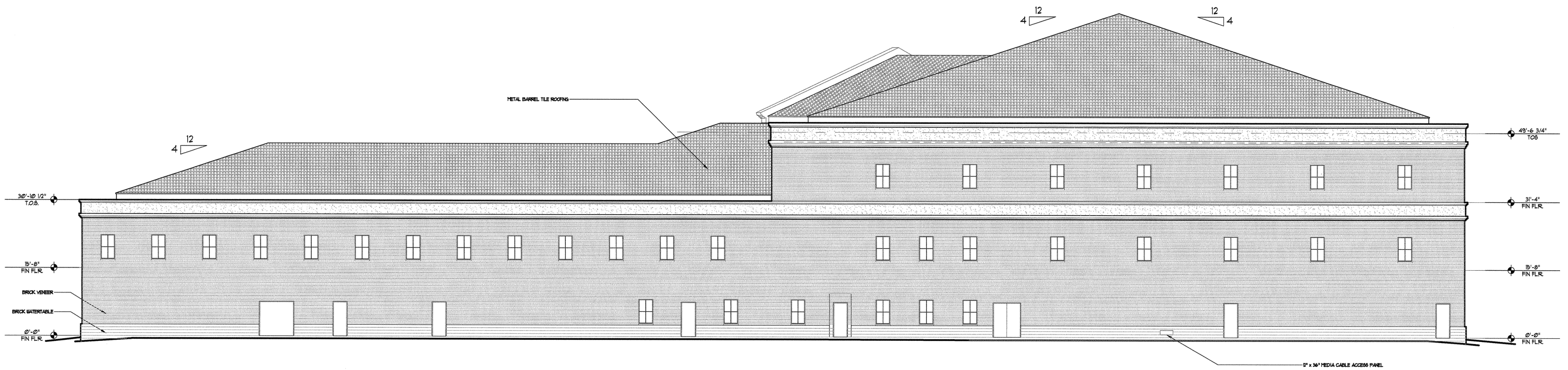
A4.2

\\tsserver\job00518 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A4 - EXTERIOR ELEVATIONS\A-2 EXTERIOR ELEVATIONS.dwg, 3/18/2008 11:11:28 AM, cjackson



SOUTH ELEVATION

SCALE: 3/32" = 1'-0" A-EL-01



NORTH ELEVATION

SCALE: 3/32" = 1'-0" A-EL-02

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

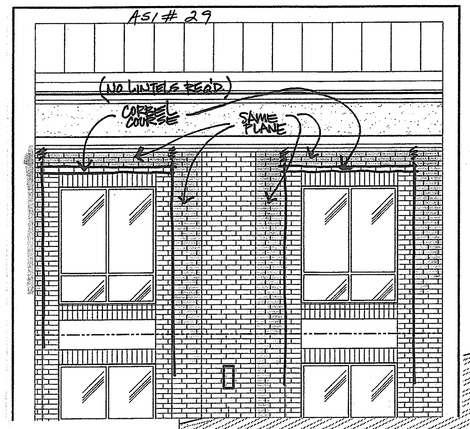
PANAMA CITY, FLORIDA

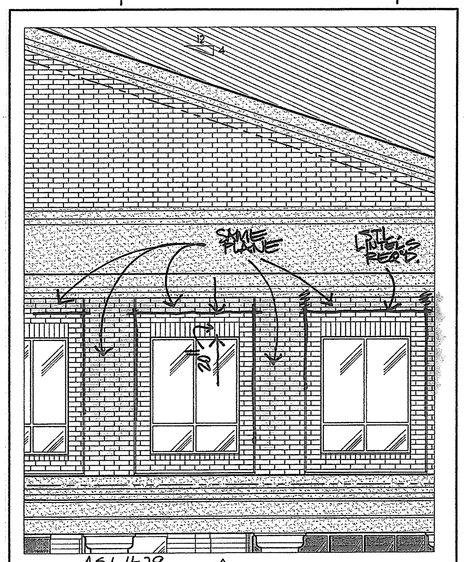
SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

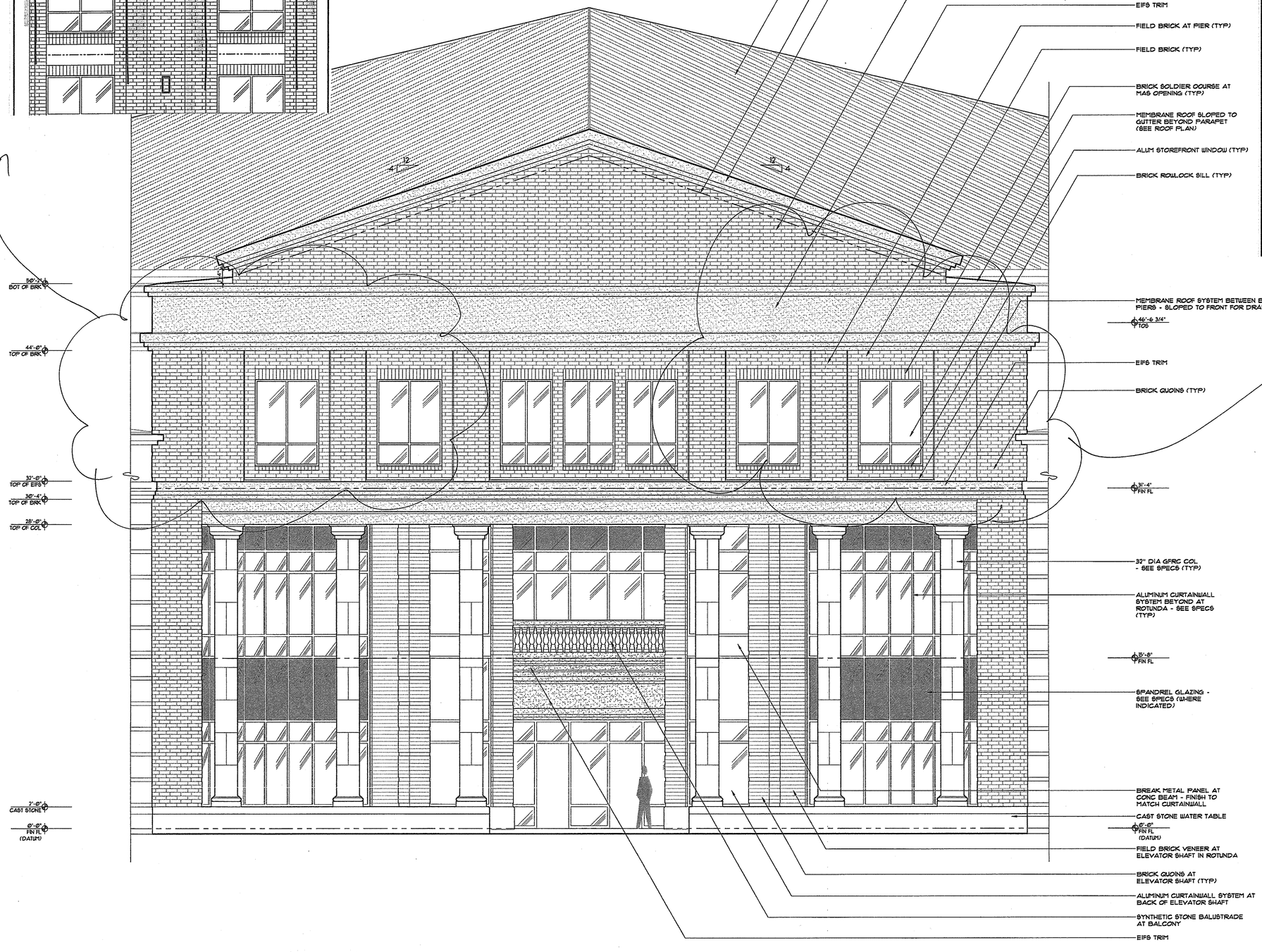
A4.2





SEE REVISIONS/ CLARIFICATIONS

SEE REVISIONS/ CLARIFICATIONS



SOUTHEAST ELEVATION

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

A-EL-EXTDGS

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-03-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-11-08
BID DOCUMENTS	CJ	DB	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9532
FAX: (850) 230-3594
Commission Number: 05318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.3

\\thserver\job\05318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A4 - EXTERIOR ELEVATIONS\A4.3 EXTERIOR ELEVATIONS.dwg, 3/18/2008 11:08:35 AM, cjackson



SOUTHEAST ELEVATION

SCALE: 3/32" = 1'-0"

A-EL-01

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

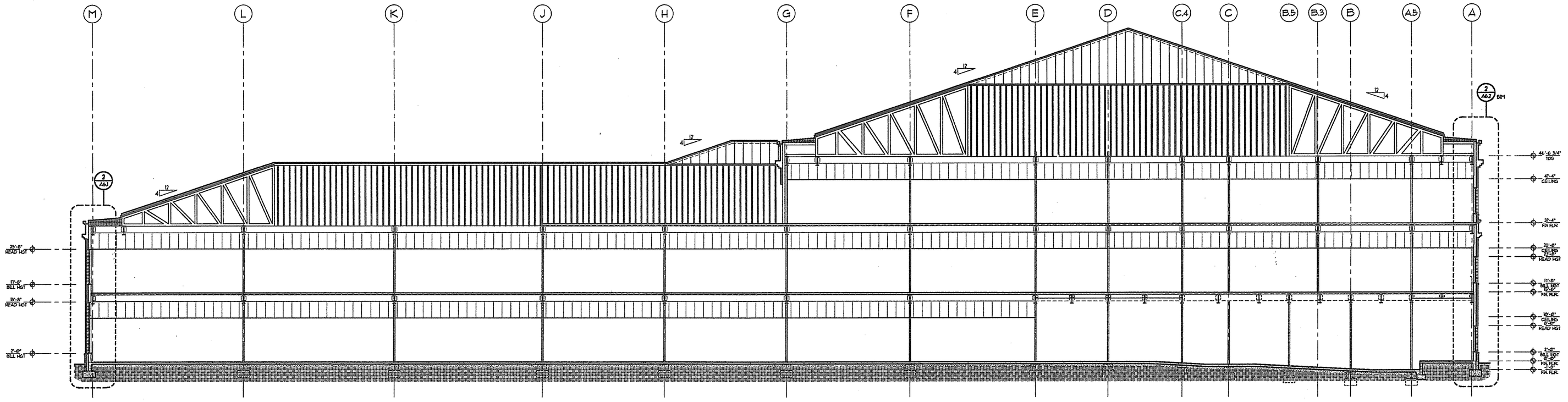
PANAMA CITY, FLORIDA

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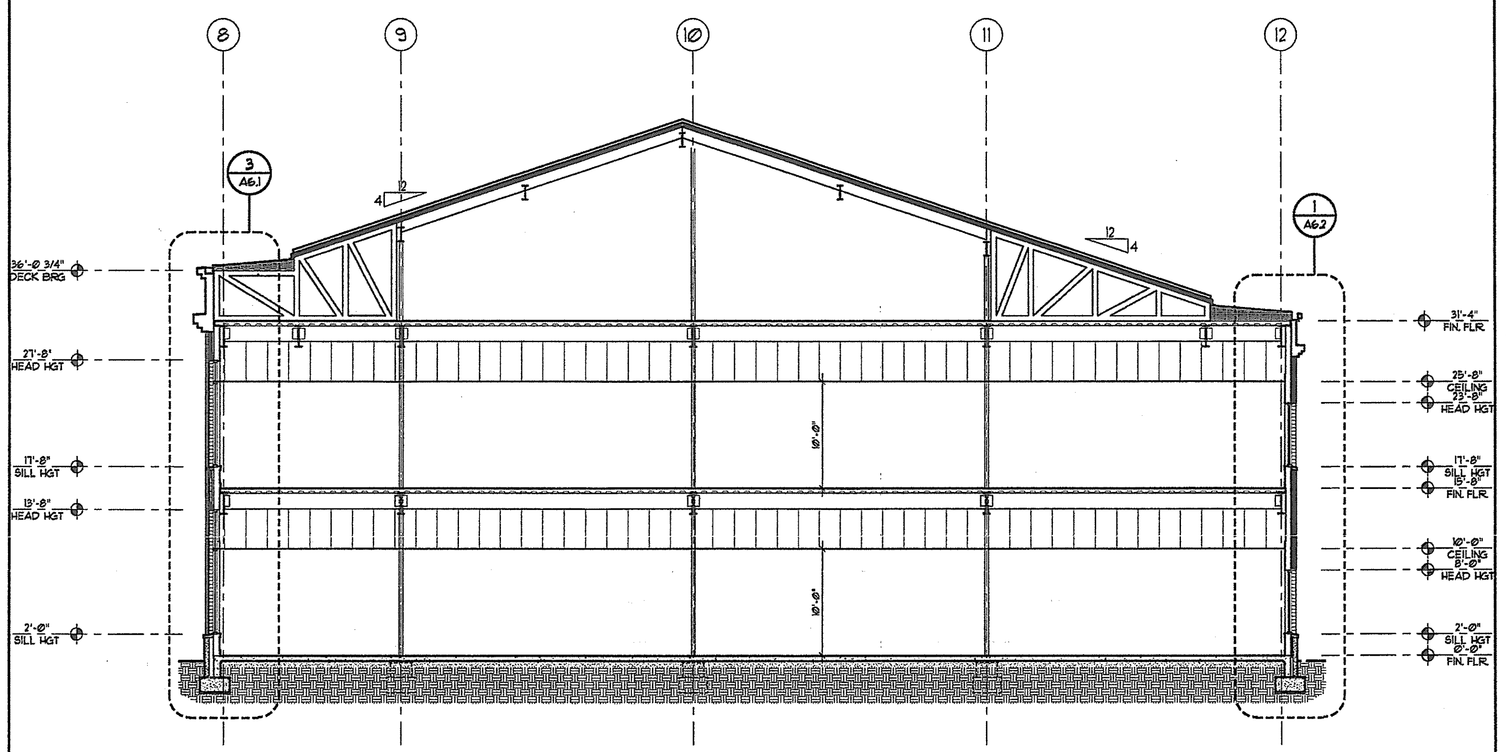
EXTERIOR ELEVATIONS

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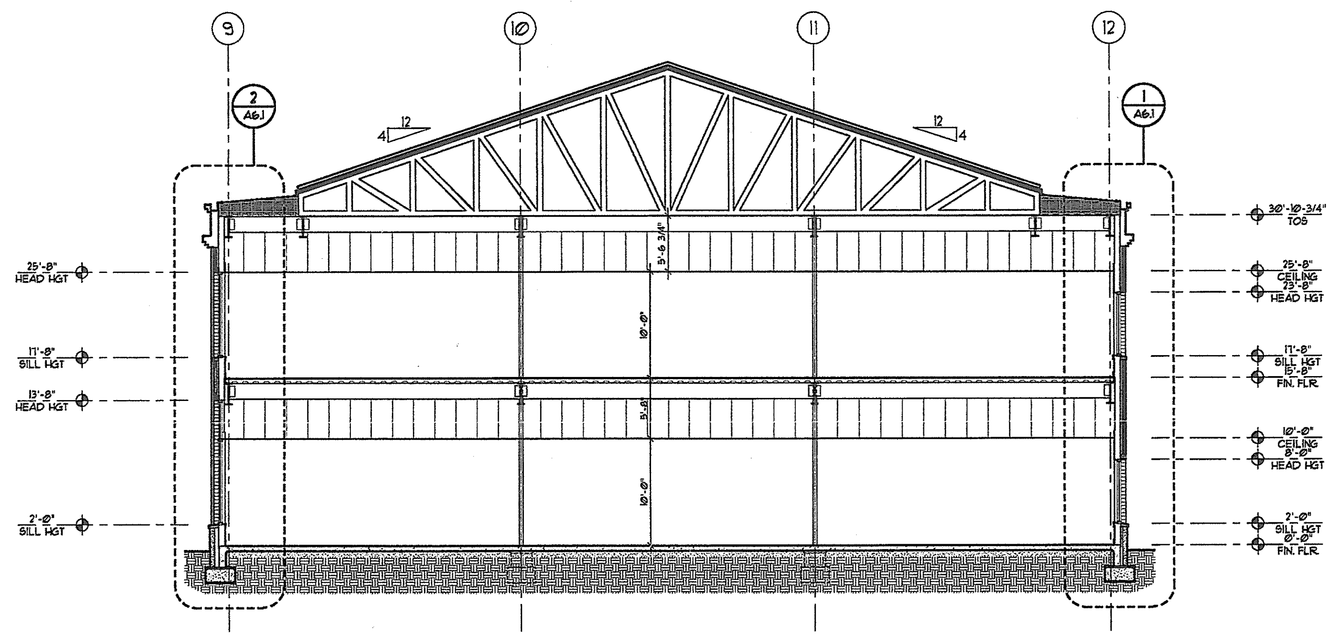
A4.3



C BUILDING SECTION
SCALE: 3/32" = 1'-0"



B BUILDING SECTION
SCALE: 1/8" = 1'-0"



A BUILDING SECTION
SCALE: 1/8" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
			-	

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-9932
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

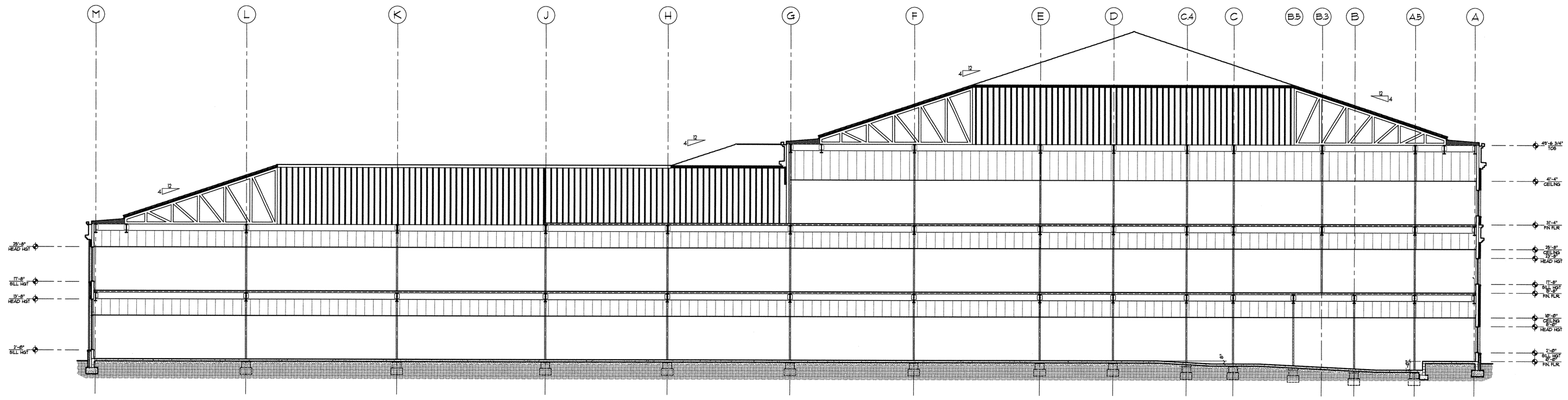
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

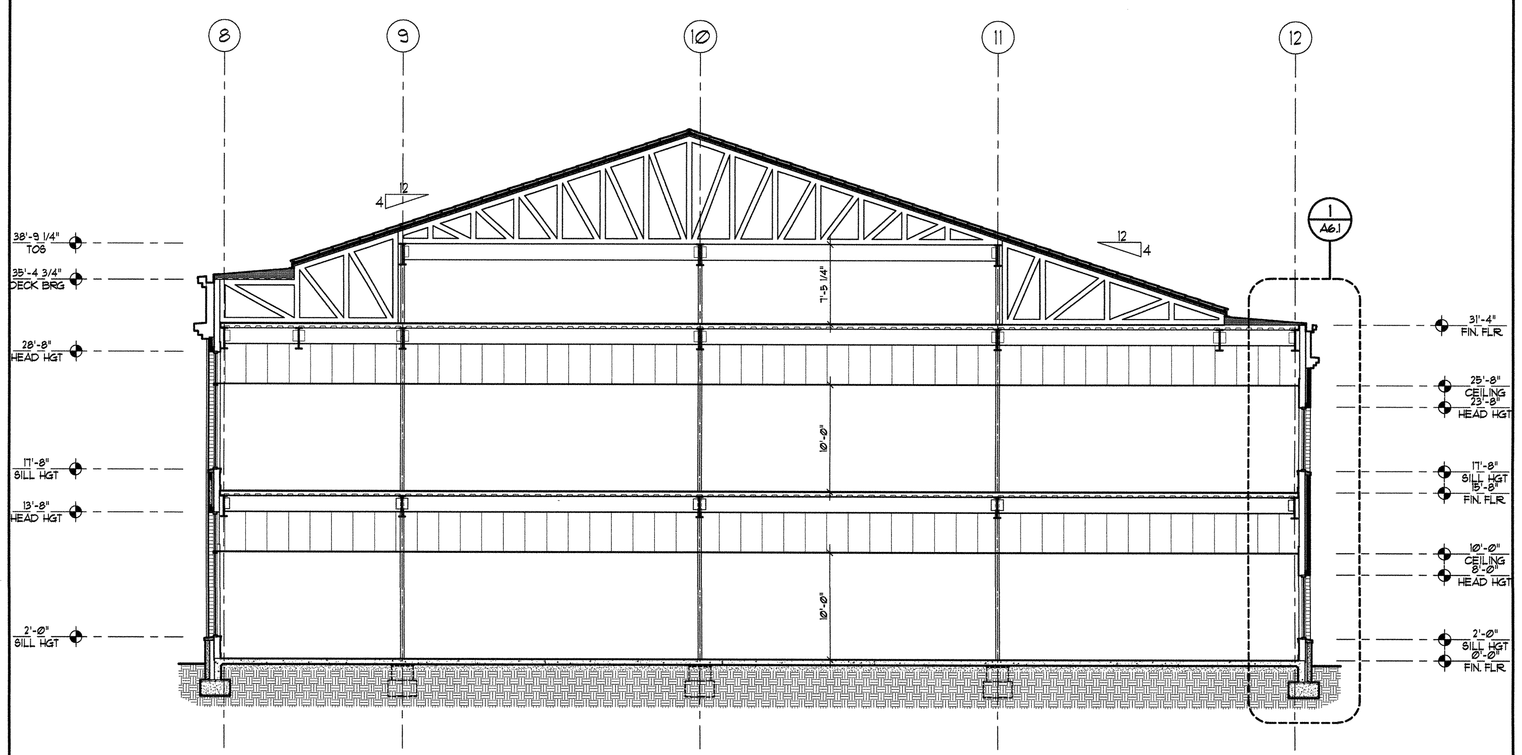
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BUILDING SECTIONS

SHEET NUMBER:
A5.1

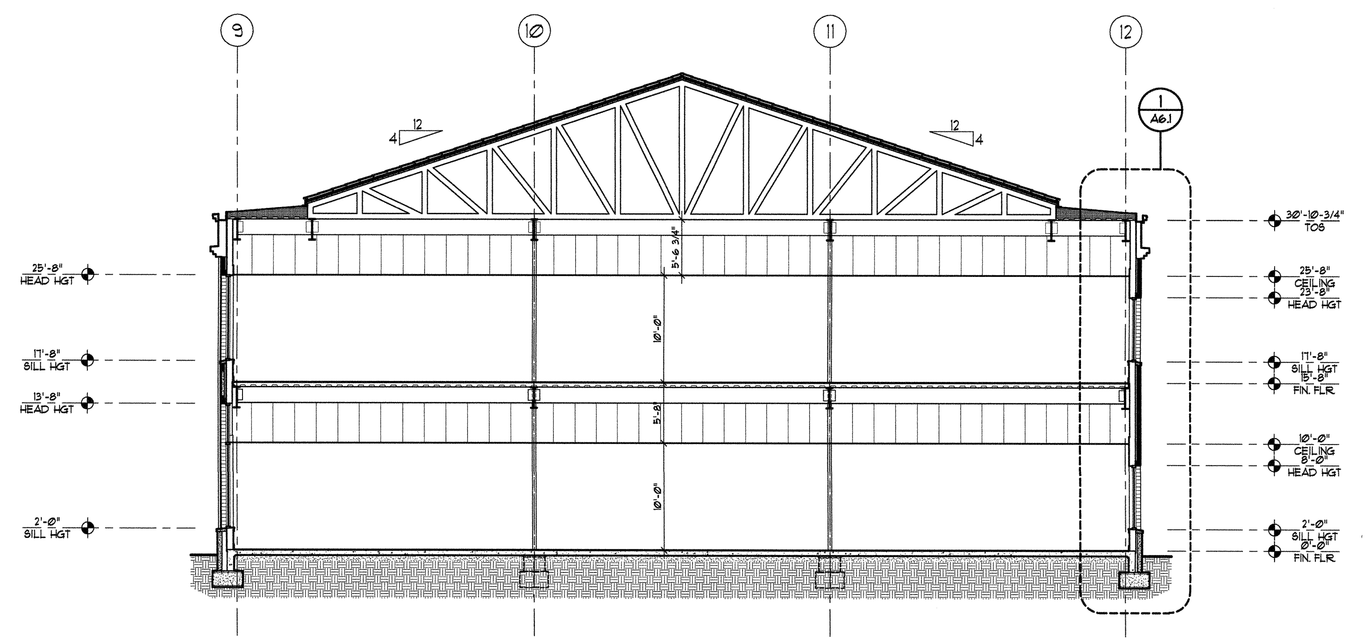
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C BUILDING SECTION
SCALE: 3/32" = 1'-0"



B BUILDING SECTION
SCALE: 1/8" = 1'-0"



A BUILDING SECTION
SCALE: 1/8" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

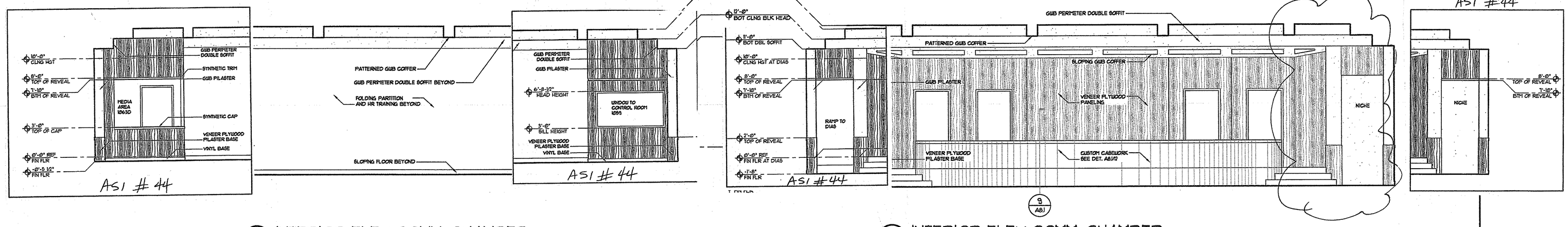
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

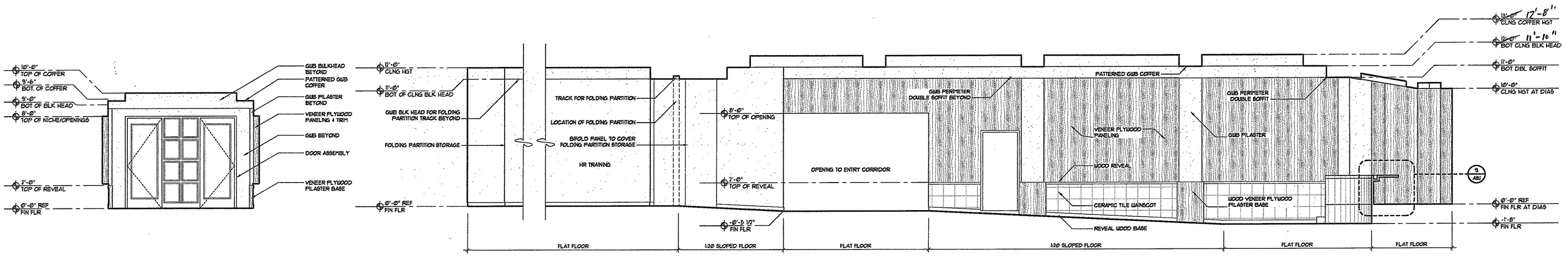
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BUILDING SECTIONS

SHEET NUMBER:
A5.1



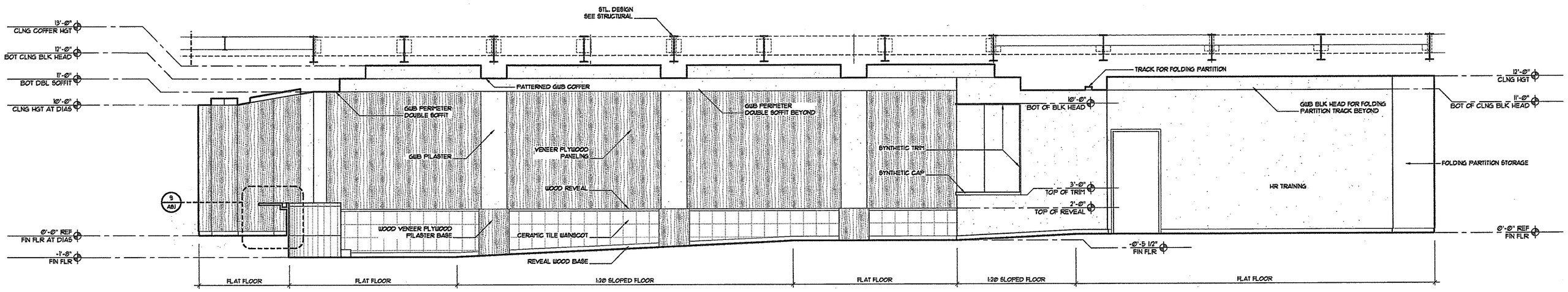
7 INTERIOR ELEV COMM. CHAMBER
SCALE: 1/4" = 1'-0" A-IL-01

4 INTERIOR ELEV COMM. CHAMBER
SCALE: 1/4" = 1'-0" A-IL-01

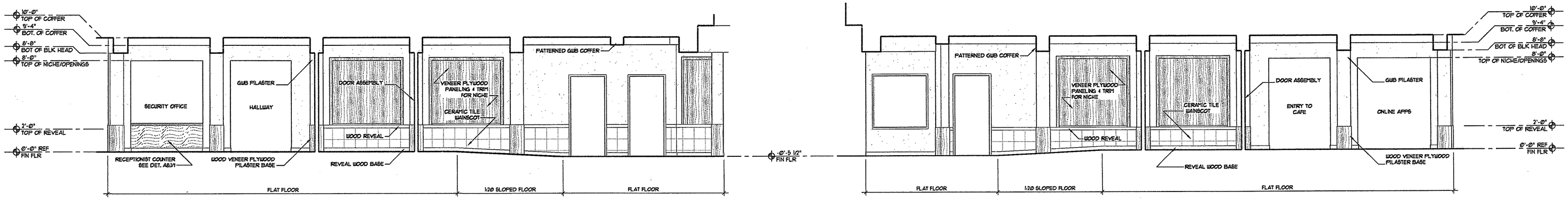


6 INTERIOR ELEV CHAMBER ENTRY
SCALE: 1/4" = 1'-0" A-IL-01

3 INTERIOR ELEV COMM. CHAMBER
SCALE: 1/4" = 1'-0" A-IL-01



2 INTERIOR ELEV COMM. CHAMBER
SCALE: 1/4" = 1'-0" A-IL-01



5 INTERIOR ELEV CHAMBER ENTRY
SCALE: 1/4" = 1'-0" A-IL-01

1 INTERIOR ELEV CHAMBER ENTRY
SCALE: 1/4" = 1'-0" A-IL-01

SEE REVISIONS

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

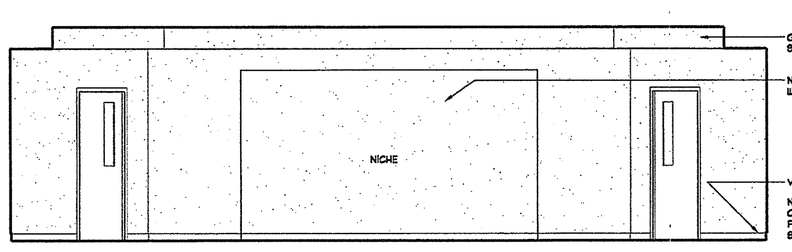
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

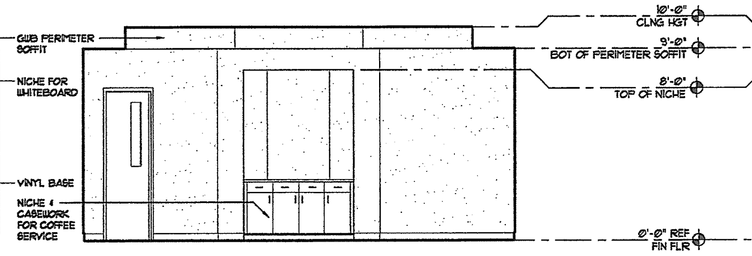
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A5.2

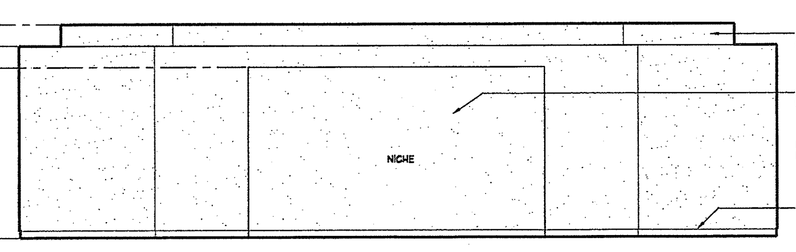
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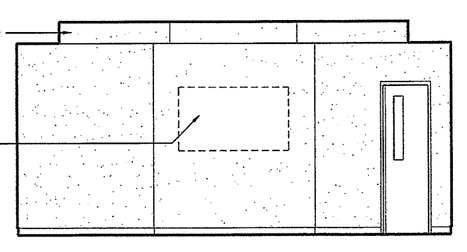
6 INTERIOR ELEV ADMIN. CONF.
SCALE: 1/4" = 1'-0" A-IL-01



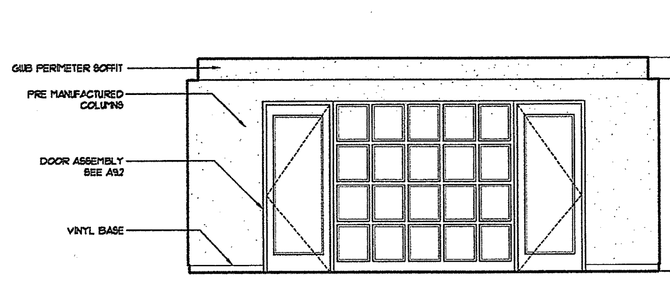
5 INTERIOR ELEV ADMIN. CONF.
SCALE: 1/4" = 1'-0" A-IL-01



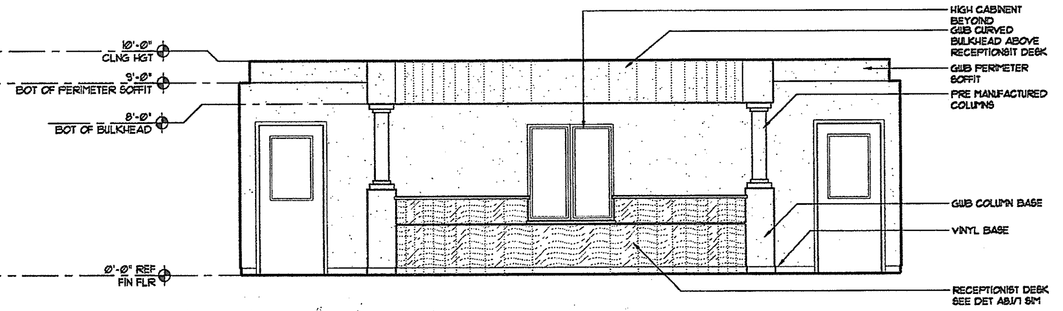
4 INTERIOR ELEV ADMIN. CONF.
SCALE: 1/4" = 1'-0" A-IL-01



3 INTERIOR ELEV ADMIN. CONF.
SCALE: 1/4" = 1'-0" A-IL-01



2 INTERIOR ELEV ADMIN. SUITE
SCALE: 1/4" = 1'-0" A-IL-01



1 INTERIOR ELEV ADMIN. SUITE
SCALE: 1/4" = 1'-0" A-IL-01

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	09-06-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2905 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-8832
FAX: (850) 230-3584
Commission Number: 05318

CONSULTANTS:

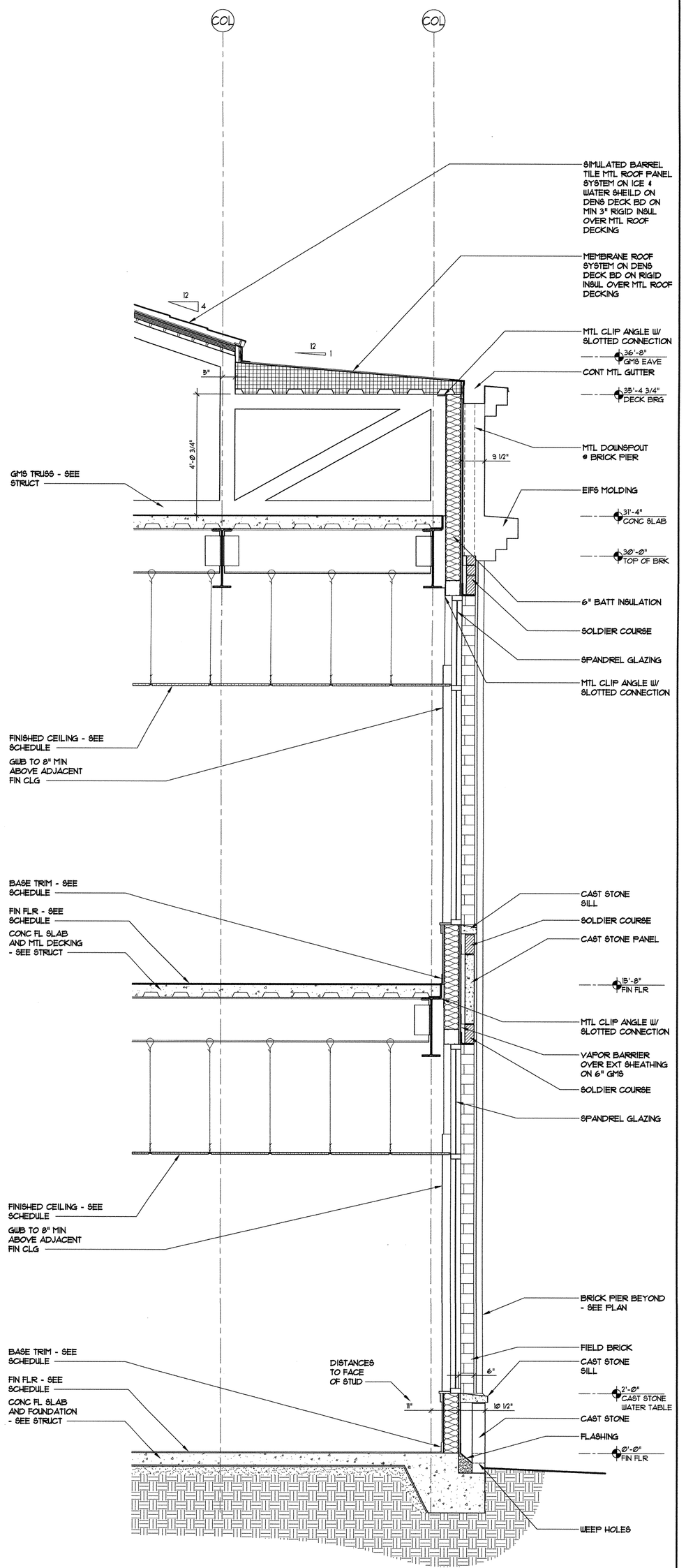
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
INTERIOR ELEVATIONS

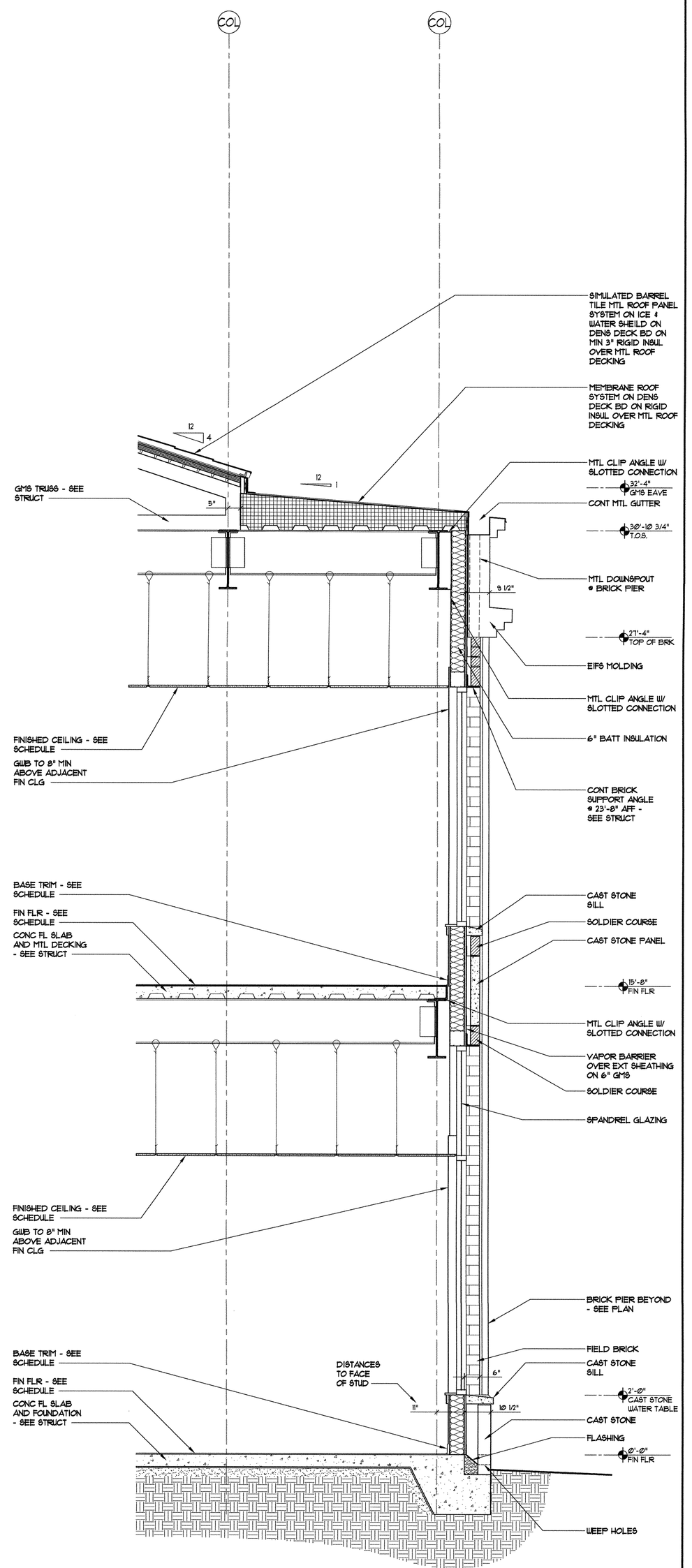
SHEET NUMBER:
A5.3

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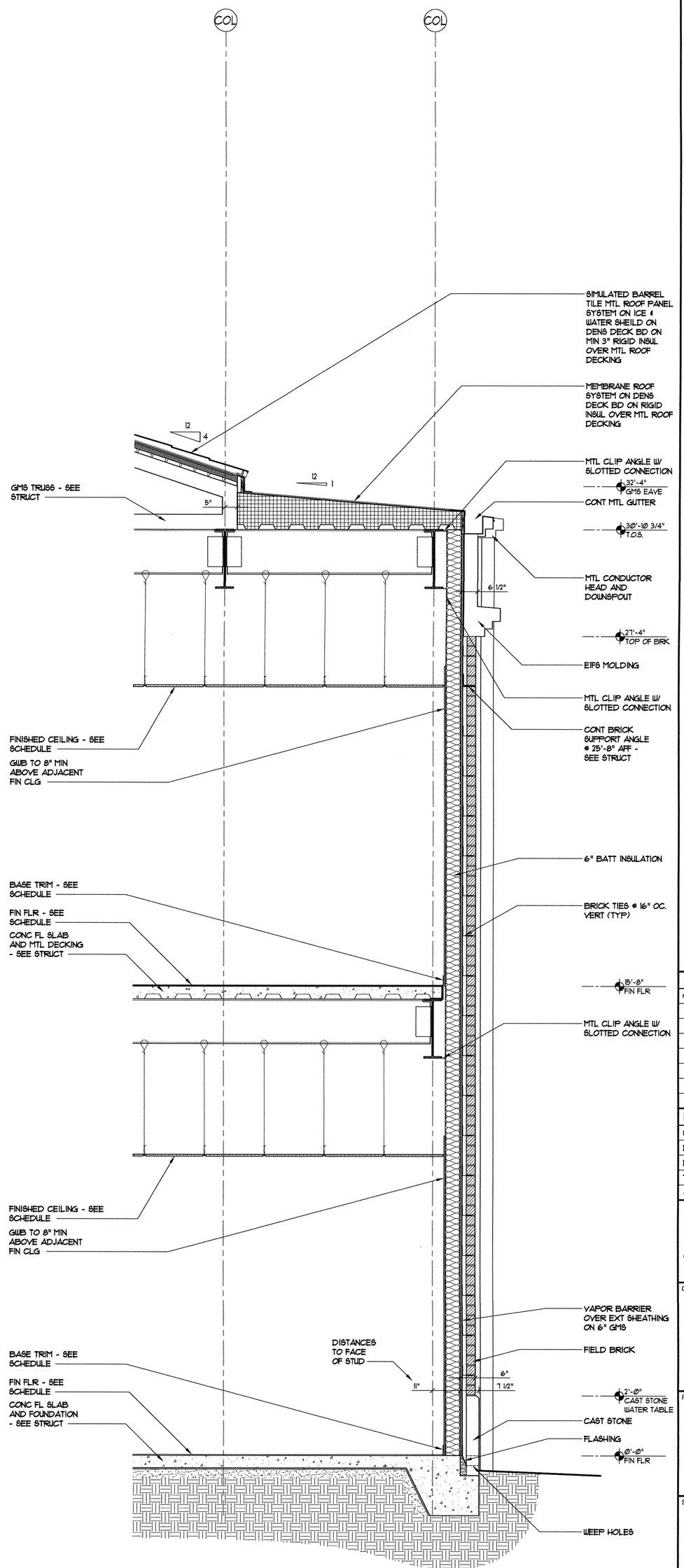
3 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-0" A-SC03.DWG



2 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-0" A-SC02.DWG



1 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-0" A-SC01.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

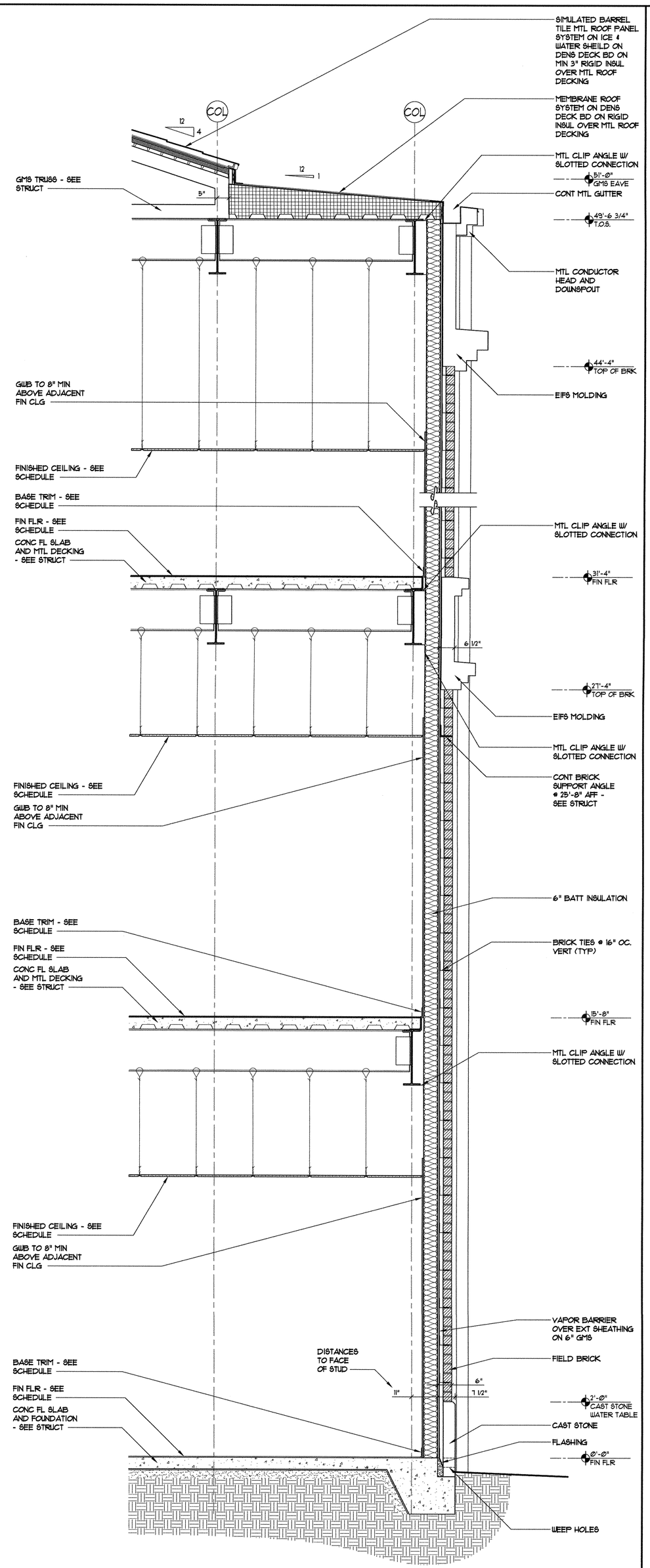
PANAMA CITY, FLORIDA

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

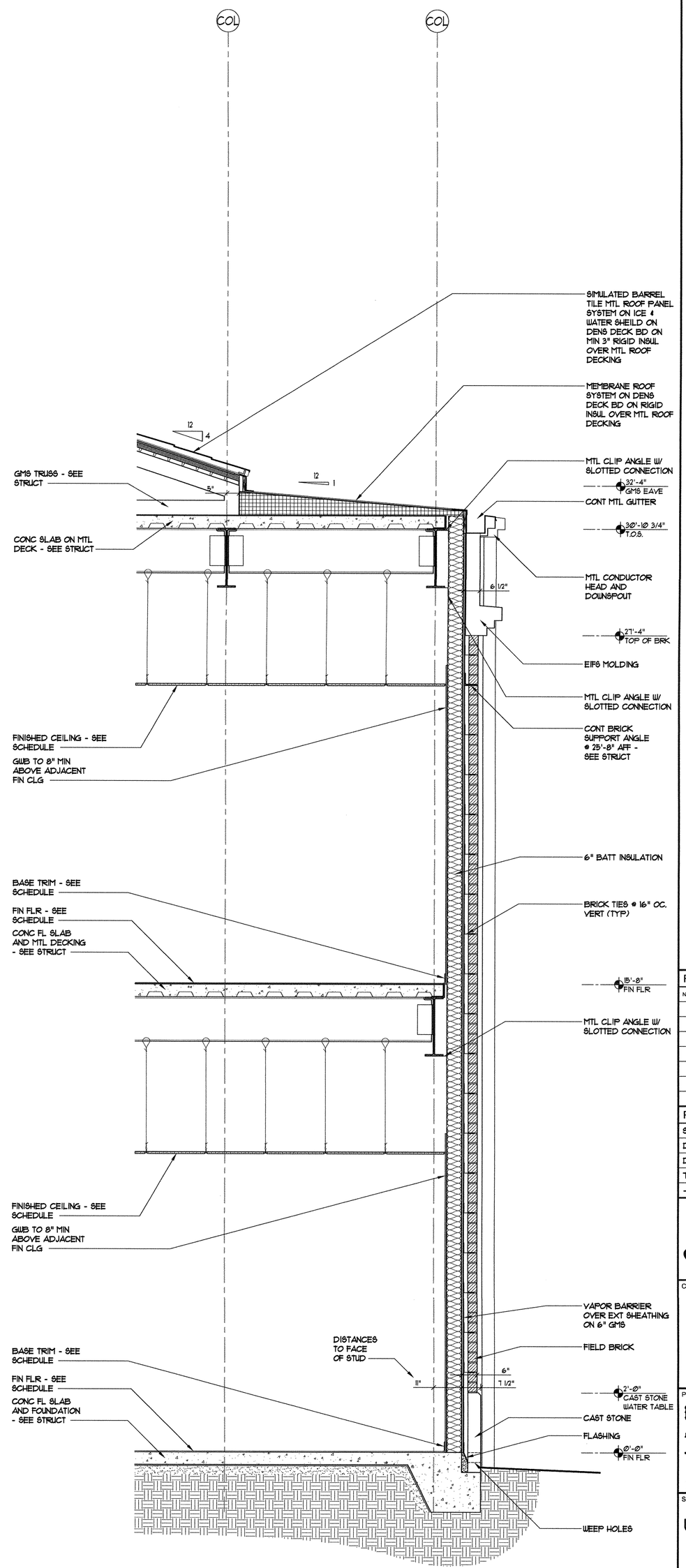
A6.1



2 TYPICAL WALL SECTION

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

A-SC09.DWG



1 TYPICAL WALL SECTION

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

A-SC04.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05/08/06
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

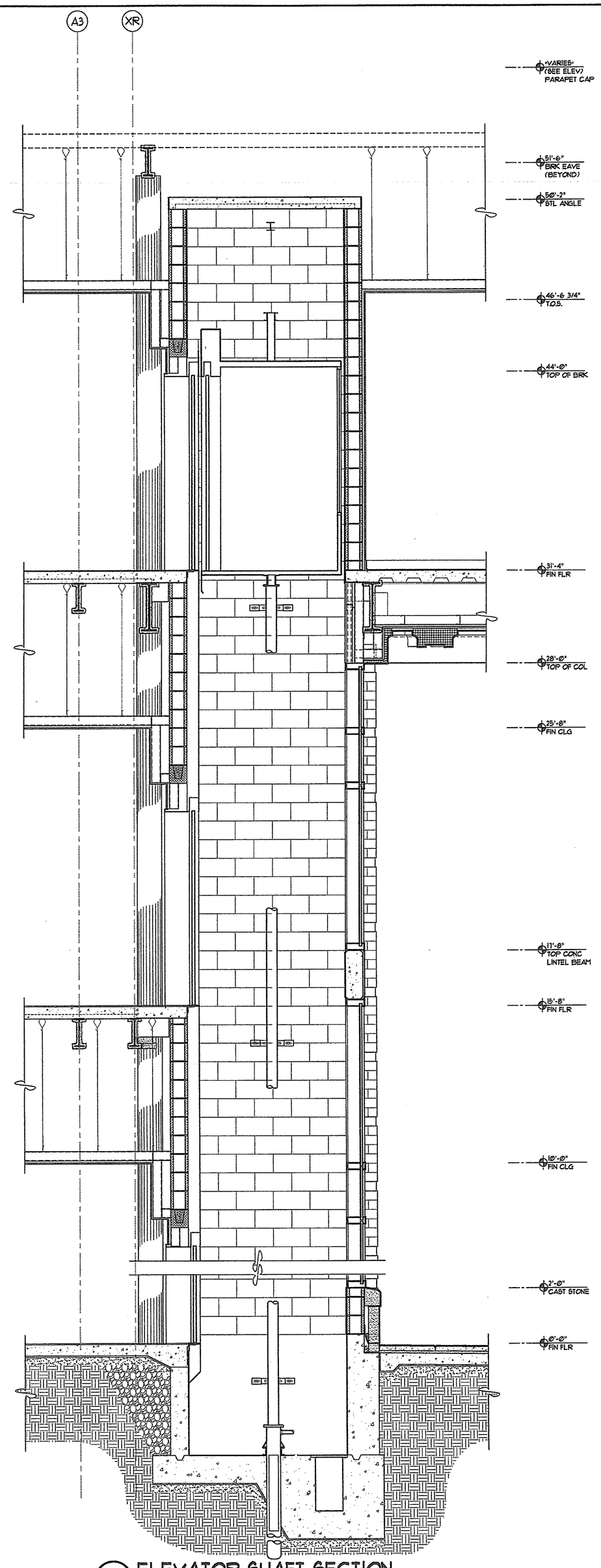
PANAMA CITY, FLORIDA

SHEET TITLE:

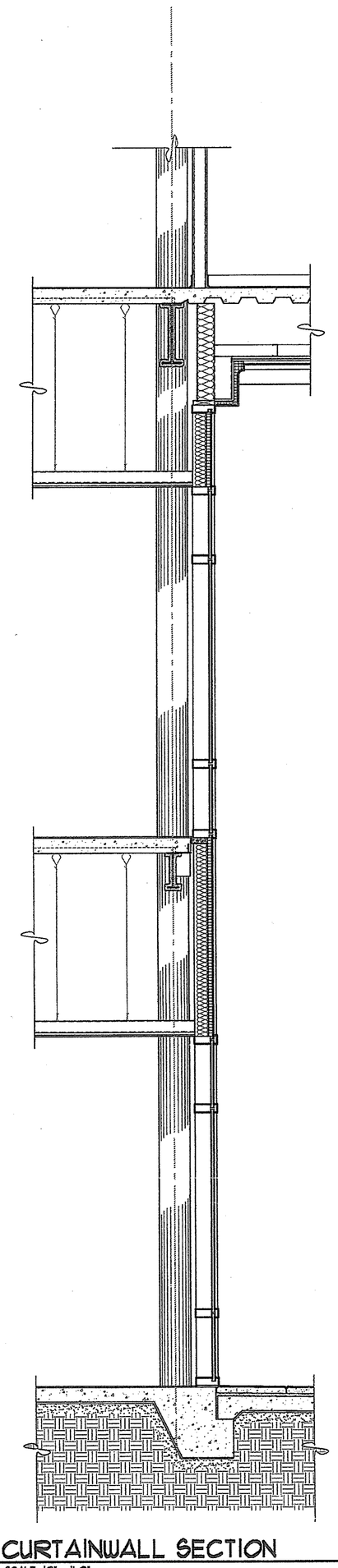
WALL SECTIONS

SHEET NUMBER:

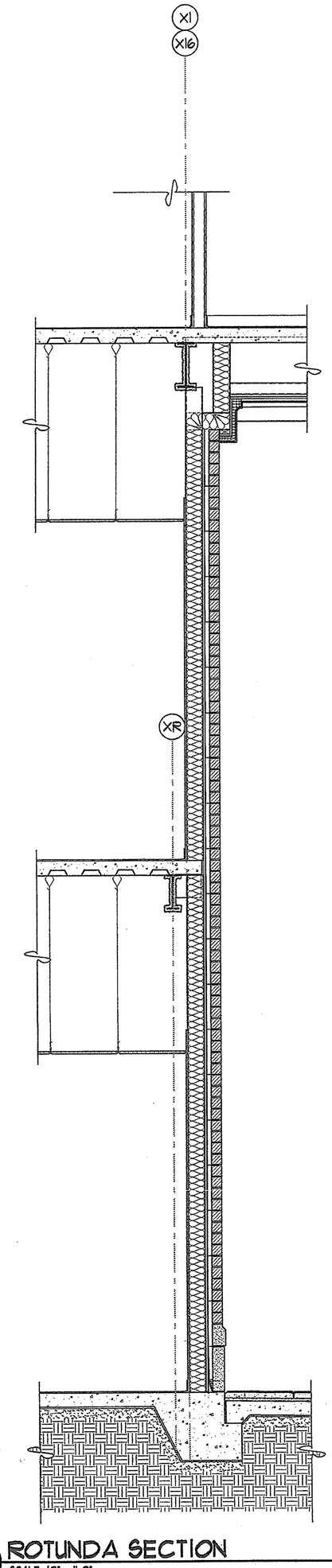
A6.2



3 ELEVATOR SHAFT SECTION
SCALE: 1/2" = 1'-0"
A-SCTS.DWG



2 CURTAINWALL SECTION
SCALE: 1/2" = 1'-0"
A-SCTS.DWG



1 ROTUNDA SECTION
SCALE: 1/2" = 1'-0"
A-SCTS.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05/28/05
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-23-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 235-5932
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

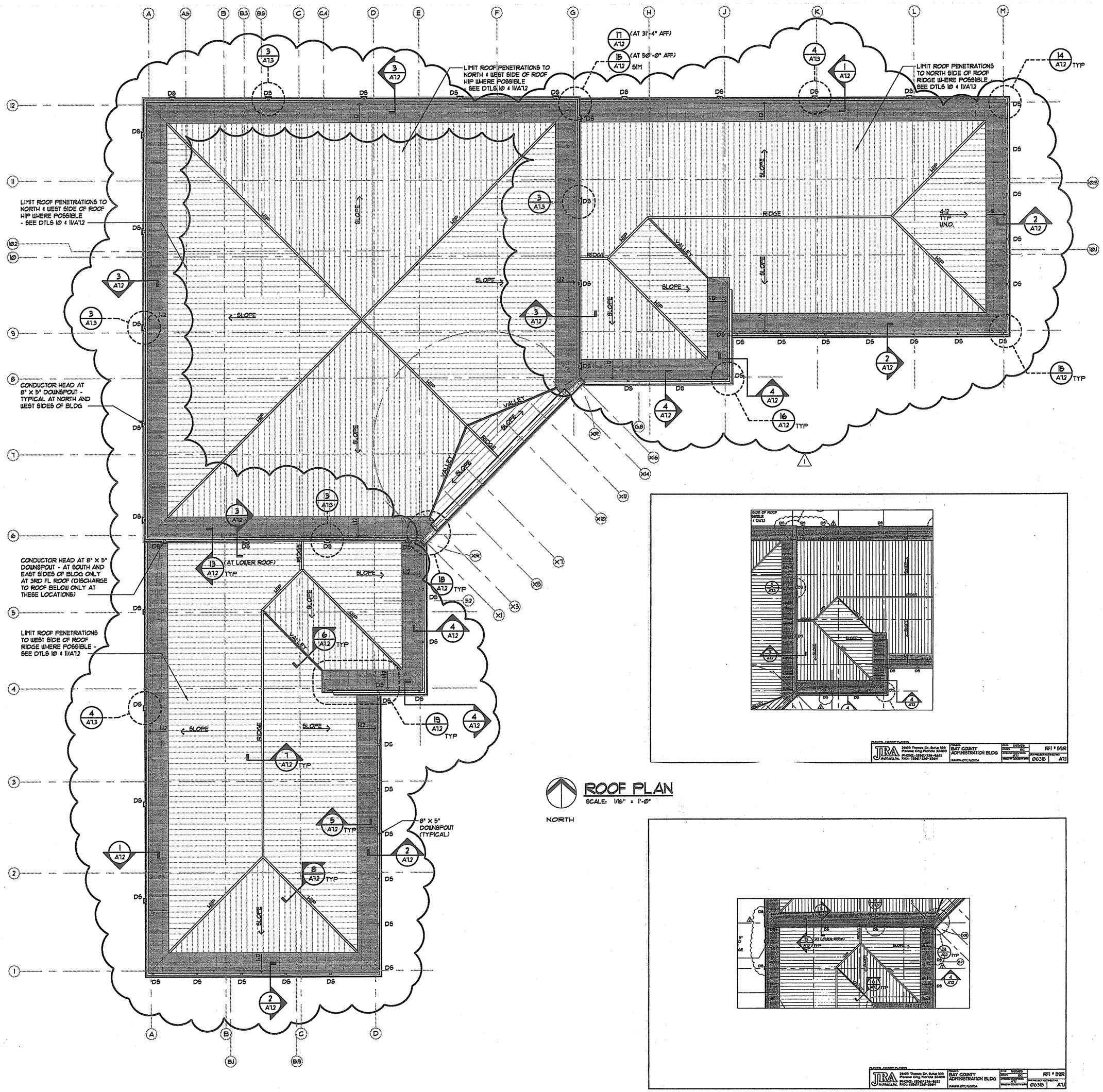
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.4

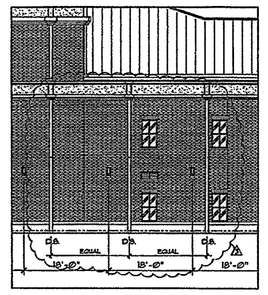
\\thisserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A6 - WALL SECTIONS\A6.5 WALL SECTIONS.dwg, 3/18/2008 10:34:10 AM, cjackson

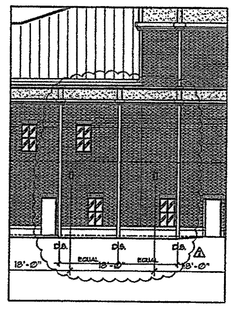


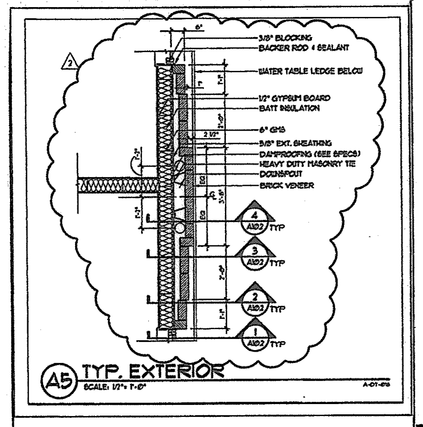
ROOF PLAN

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

NORTH







A5 TYP. EXTERIOR

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

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	A5! # 23: ROOF DETAILS	CJ	DB	9/3/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-05-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	CJ	DB	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9932
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

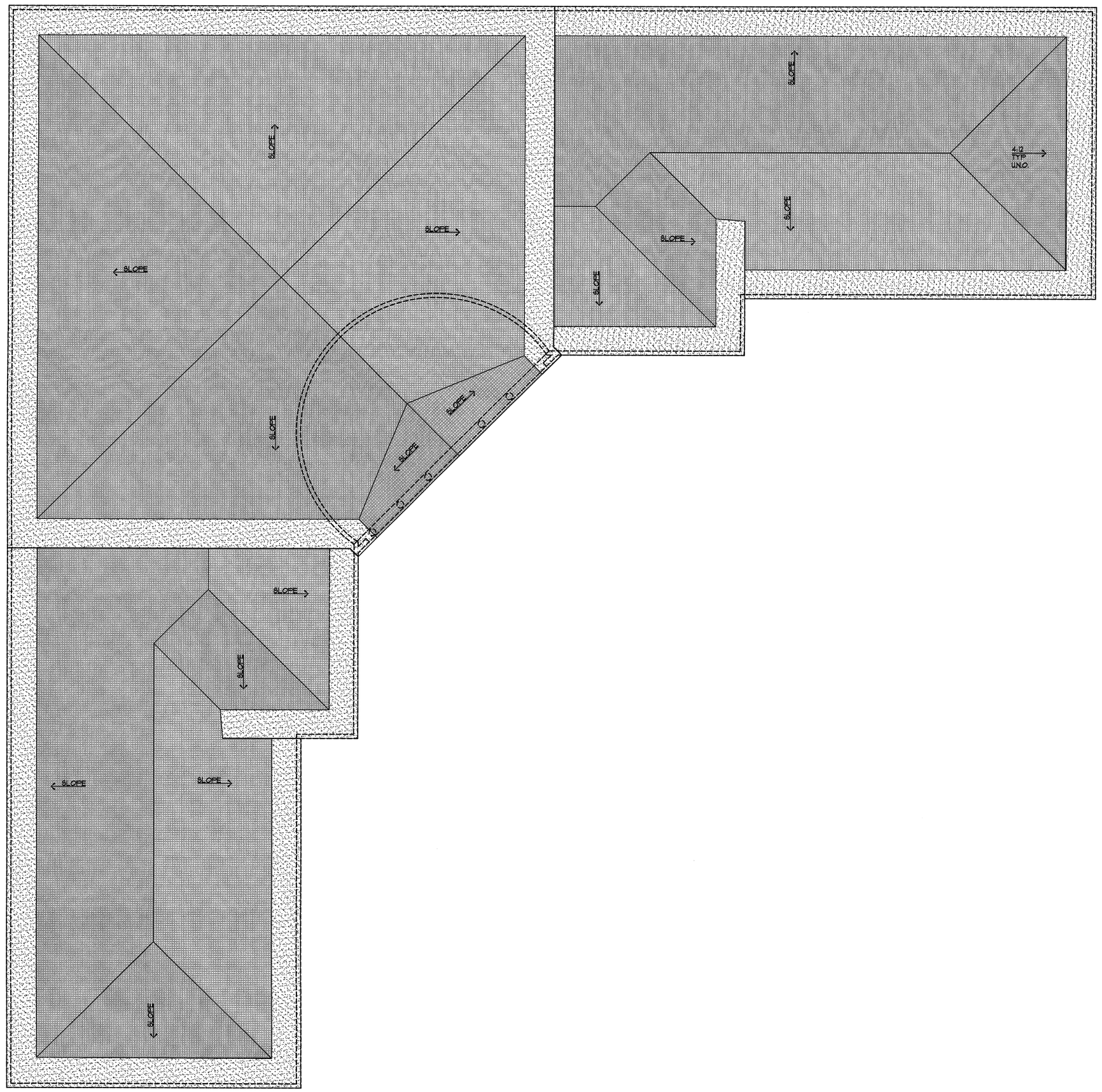
PANAMA CITY, FLORIDA

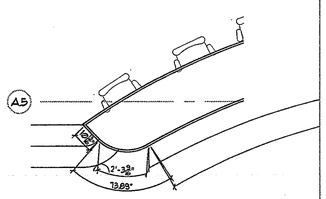
SHEET TITLE:

ROOF PLAN

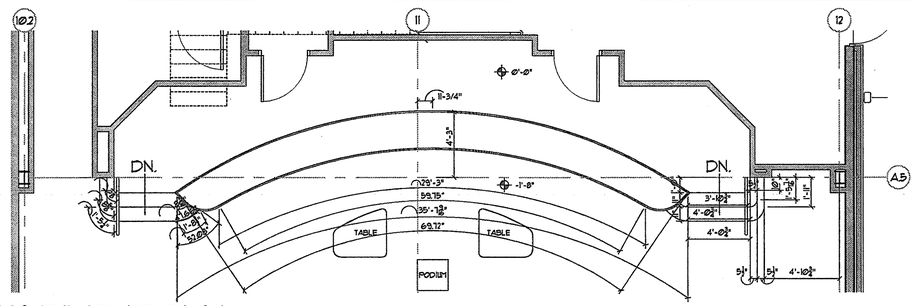
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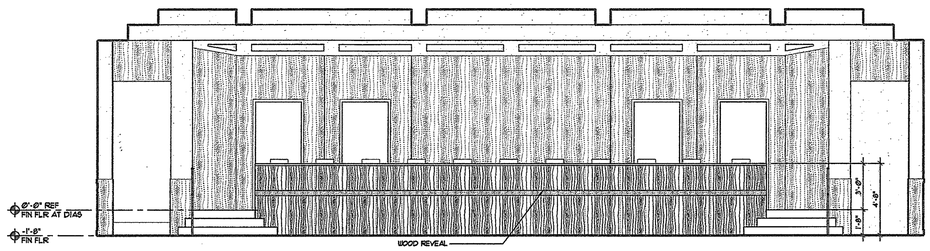

SLOPE
SLOPE
SLOPE



14 DIAS ENLARGED PLAN
SCALE: 3/8"=1'-0" A-D1-003



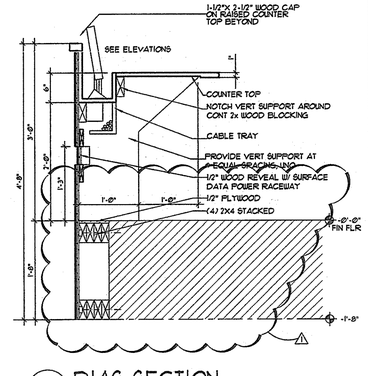
13 DIAS ENLARGED PLAN
SCALE: 1/4"=1'-0"



12 DIAS CASEWORK ELEV.
SCALE: 1/4"=1'-0"

11 REAR ELEVATION
SCALE: 1/4"=1'-0"

ASI #31



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

NOTE: ONLY LIMITED CABINETS ARE INCLUDED IN THE GMP. THIS ENTIRE SHEET OF CABINET DETAILS MAY NOT BE IN THE CONTRACT, BUT ARE SHOWN FOR REF.. THE OWNER MAY ELECT TO ADD OTHER CABINETS TO THE CONTRACT, AND THE DETAILS HERE CAN BE USED FOR A BASIS OF DESIGN.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 31 - DIAS CASEWORK			11/20/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-15-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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Commission Number: 05318

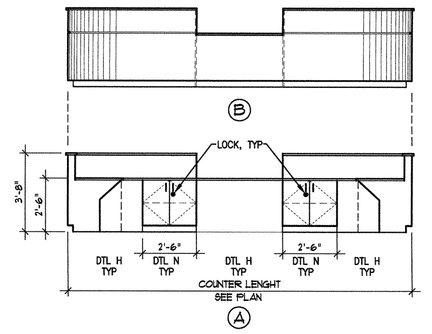
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

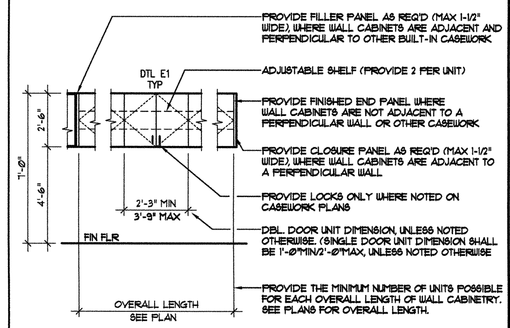
PANAMA CITY, FLORIDA

SHEET TITLE:
CASEWORK ELEVATIONS

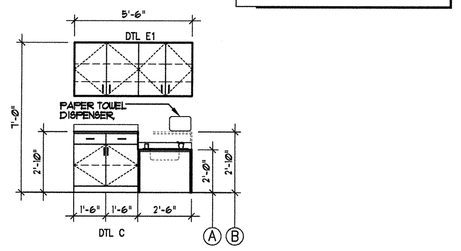
SHEET NUMBER:
A8.1



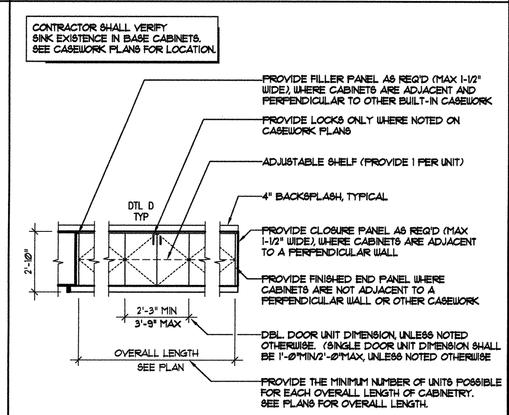
10 CIRCULATION/MEDIA DESK
SCALE: 1/4" = 1'-0"



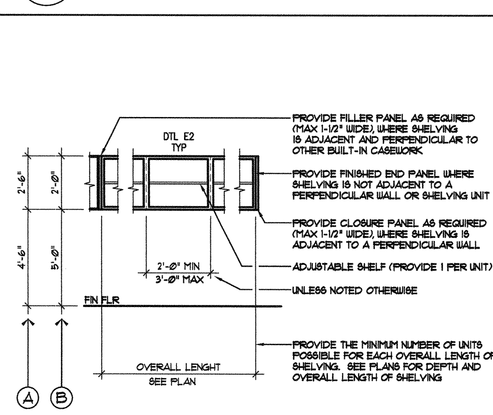
5 TYPICAL UPPER CABINETS
SCALE: 1/4" = 1'-0"



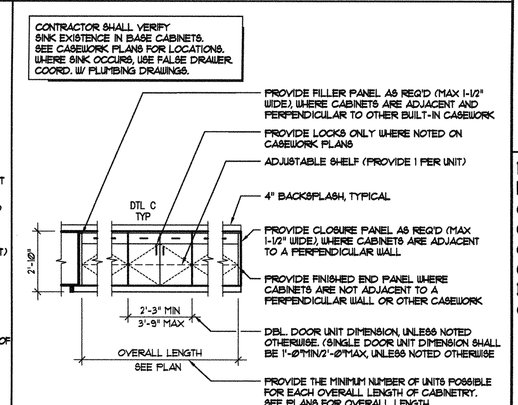
9 ELEVATION
SCALE: 1/4" = 1'-0"



4 TYPICAL BASE CABINETS
SCALE: 1/4" = 1'-0"

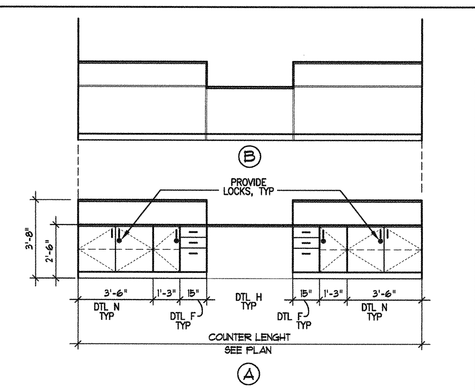


8 TYPICAL UPPER SHELVING
SCALE: 1/4" = 1'-0"

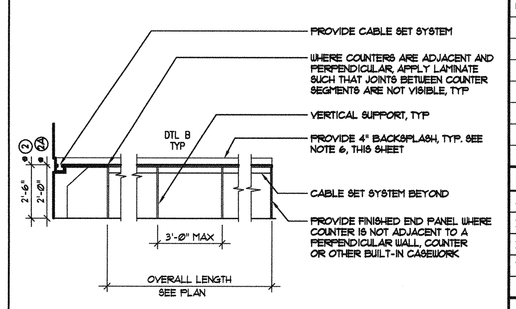


3 TYPICAL BASE CABINETS
SCALE: 1/4" = 1'-0"

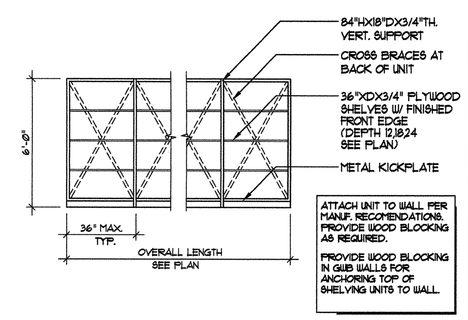
NOTE: ONLY LIMITED CABINETS ARE INCLUDED IN THE GMP. THIS ENTIRE SHEET OF CABINET DETAILS MAY NOT BE IN THE CONTRACT, BUT ARE SHOWN FOR REF. THE OWNER MAY ELECT TO ADD OTHER CABINETS TO THE CONTRACT, AND THE DETAILS HERE CAN BE USED FOR A BASIS OF DESIGN.



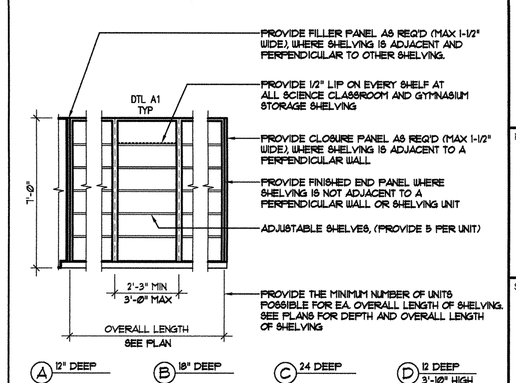
7 RECEPTION/SECRETERIAL COUNTER - BUILDING #1 ADMIN
SCALE: 1/4" = 1'-0"



2, 2A TYP COMPUTER COUNTER
SCALE: 1/4" = 1'-0"



6 PRE-MANUF. SHELVING
SCALE: 1/4" = 1'-0"



1 TYP STORAGE SHELVING
SCALE: 1/4" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-26-07
DD OWNER REVIEW	-	-	08-06-07
"75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

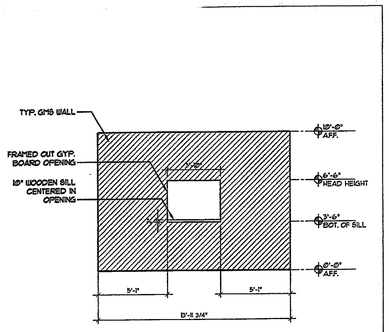
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
CASEWORK ELEVATIONS

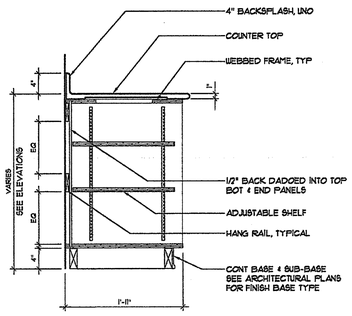
SHEET NUMBER:
A8.1



(V) CASED OPENING @ ROOM 2145

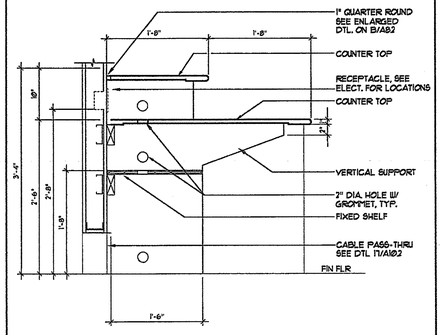
SCALE: 1/4" = 1'-0"

A-DT-OPENING = 2145.DWG



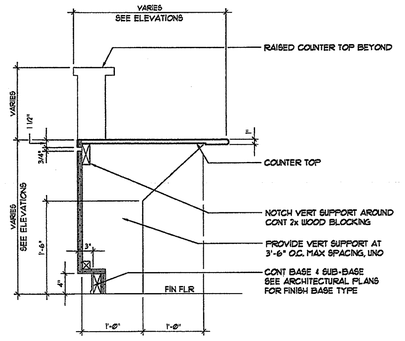
(R) BASE CABINET WITH DOOR

SCALE: 1" = 1'-0"



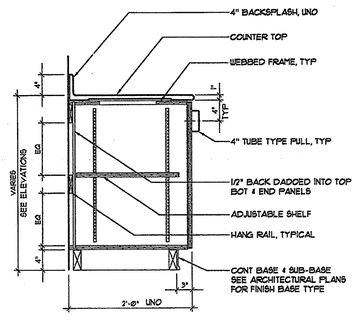
(M) STUDIO CASEWORK DETAIL

SCALE: 1" = 1'-0"



(H) KNEE SPACE @ H.C. ACCESS

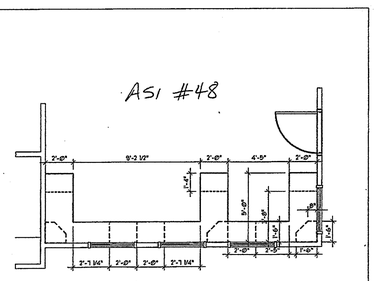
SCALE: 1" = 1'-0"



(D) BASE CABINET WITH DOOR

SCALE: 1" = 1'-0"

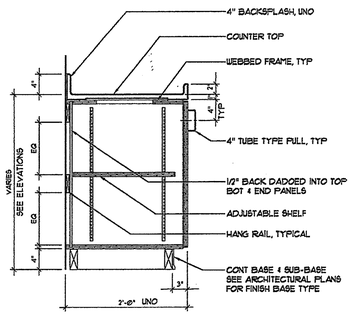
NOTE: ONLY LIMITED CABINETS ARE INCLUDED IN THE GMP. THIS ENTIRE SHEET OF CABINET DETAILS MAY NOT BE IN THE CONTRACT, BUT ARE SHOWN FOR REF. THE OWNER MAY ELECT TO ADD OTHER CABINETS TO THE CONTRACT, AND THE DETAILS HERE CAN BE USED FOR A BASIS OF DESIGN.



(U) SUPERVISOR OF ELEC. CASEWORK

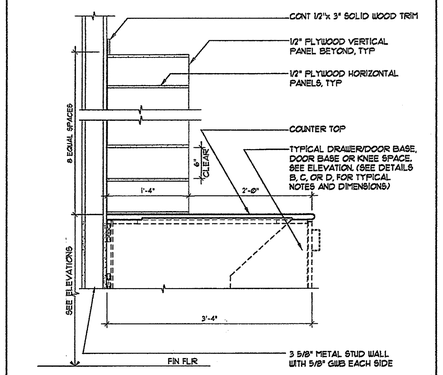
SCALE: 1/4" = 1'-0"

A-DT-CU SUPER



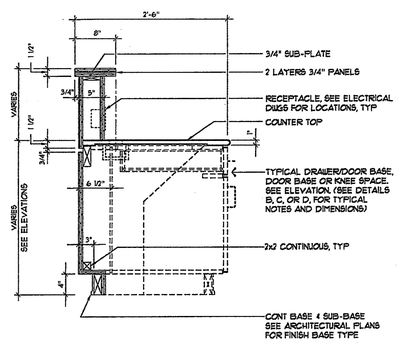
(Q) BASE CABINET WITH DOOR

SCALE: 1" = 1'-0"



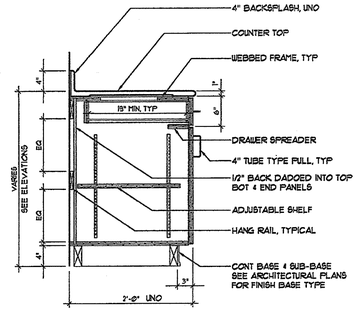
(L) MAIL BOXES

SCALE: 1" = 1'-0"



(G) RAISED COUNTER @ RECEPTION

SCALE: 1" = 1'-0"



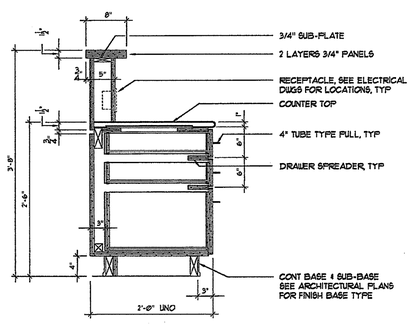
(C) BASE CAB W/DRAWER & DOOR

SCALE: 1" = 1'-0"

(T) SUPERVISOR OF ELEC. CASEWORK

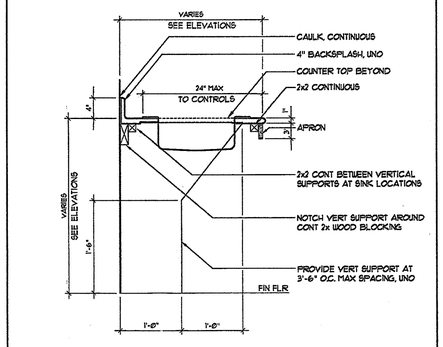
SCALE: 1/4" = 1'-0"

A-DT-CU SUPER



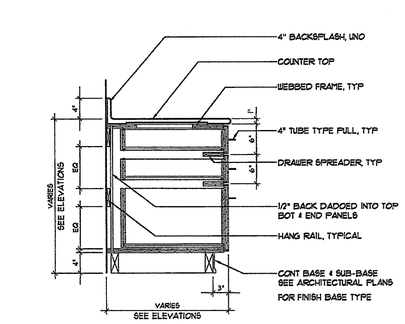
(P) RECEPTION/SECRETERIAL BASE CABINET W/3 DRAWERS

SCALE: 1" = 1'-0"



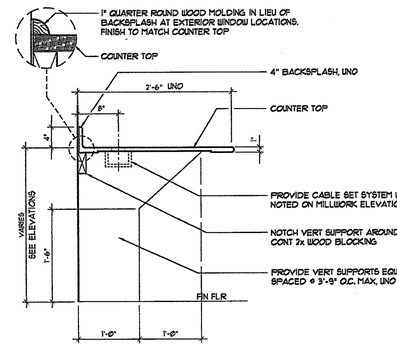
(K) SINK BASE W/KNEE SPACE

SCALE: 1" = 1'-0"



(F) BASE CABINET W/3 DRAWERS

SCALE: 1" = 1'-0"



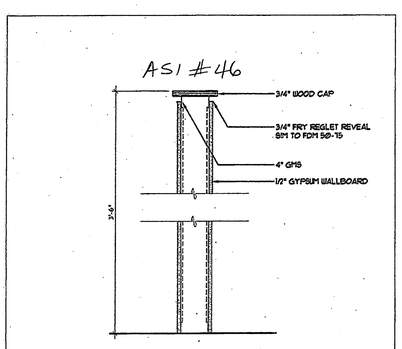
(B) COUNTER W/KNEE SPACE

SCALE: 1" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

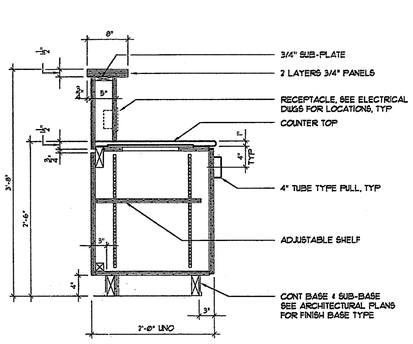
PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08



(S) HALF WALL DETAIL

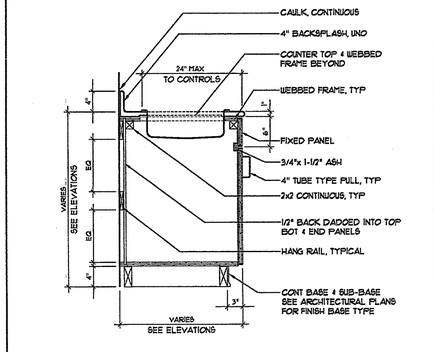
SCALE: 1-1/2" = 1'-0"

A-DT-HALF WALL.DGS



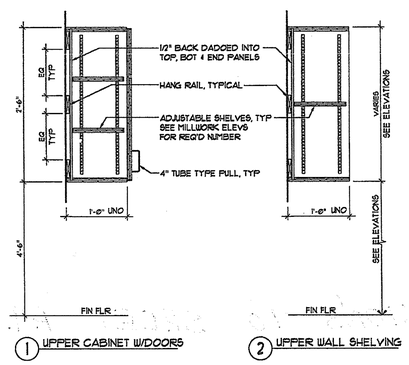
(N) RECEPTION/SECRETERIAL BASE CABINET WITH DOOR

SCALE: 1" = 1'-0"



(J) SINK BASE CABINET W/DOOR

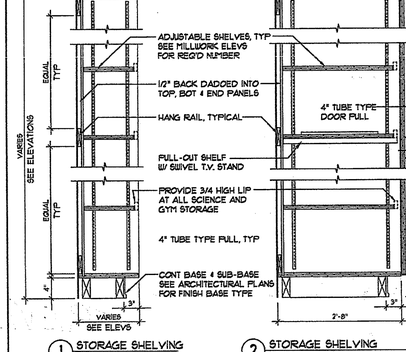
SCALE: 1" = 1'-0"



(1) UPPER CABINET W/DOORS (2) UPPER WALL SHELVING

(E) UPPER CABINETS AND SHELVING

SCALE: 1" = 1'-0"



(1) STORAGE SHELVING OPEN (2) STORAGE SHELVING WITH DOORS

(A) STORAGE SHELVING

SCALE: 1" = 1'-0"

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

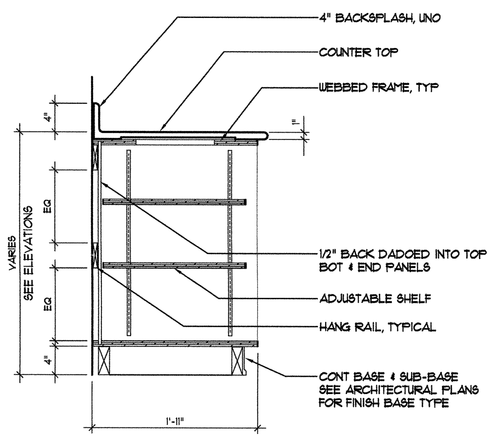
CASEWORK DETAILS

SHEET NUMBER:

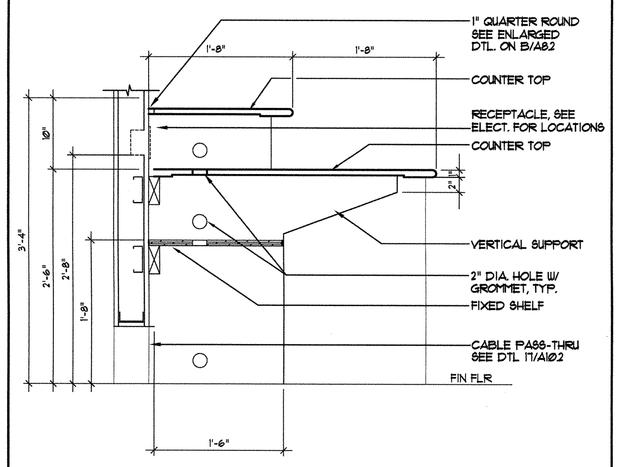
A8.2

\\fileserver\job\08318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheet\A8 - CASEWORK ELEVATIONS & DETAILS\A8.2 CASEWORK DETAILS.dwg, 3/18/2008 10:16:38 AM, cjackson

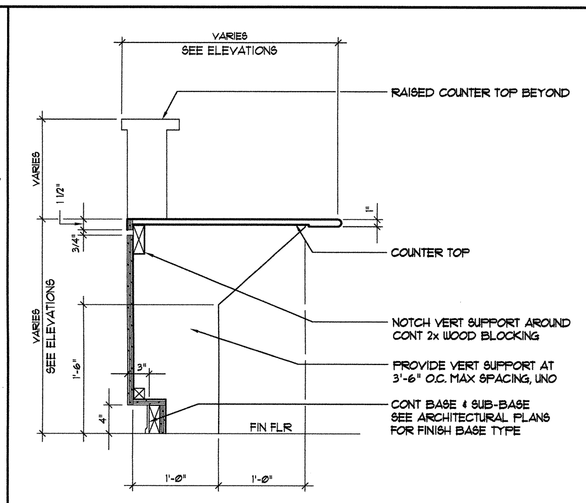
FUTURE DETAIL
SCALE: 1" = 1'-0"



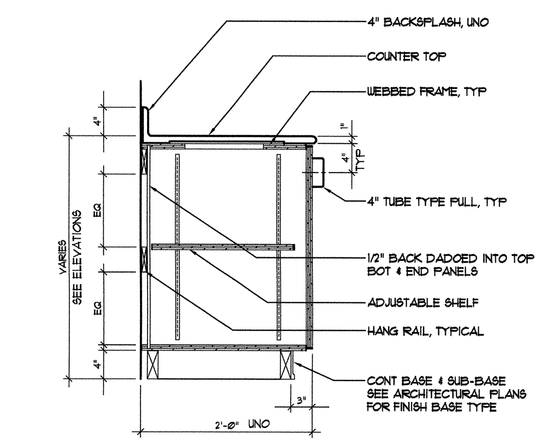
R BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"



M STUDIO CASEWORK DETAIL
SCALE: 1" = 1'-0"

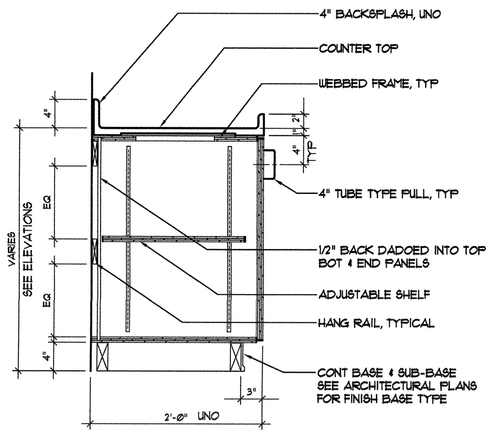


H KNEE SPACE @ H.C. ACCESS
SCALE: 1" = 1'-0"

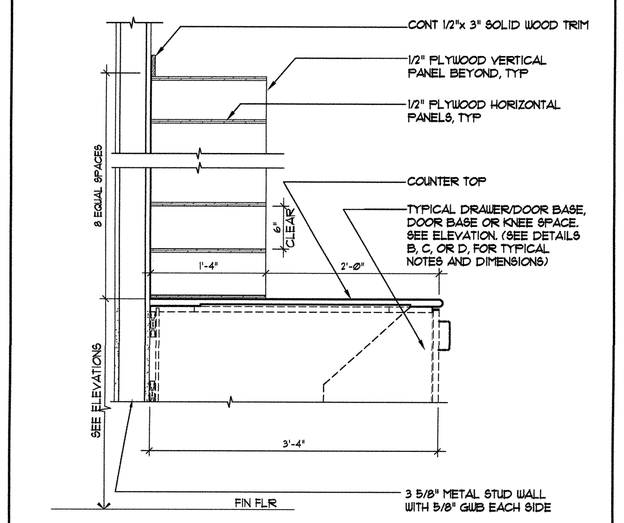


D BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"

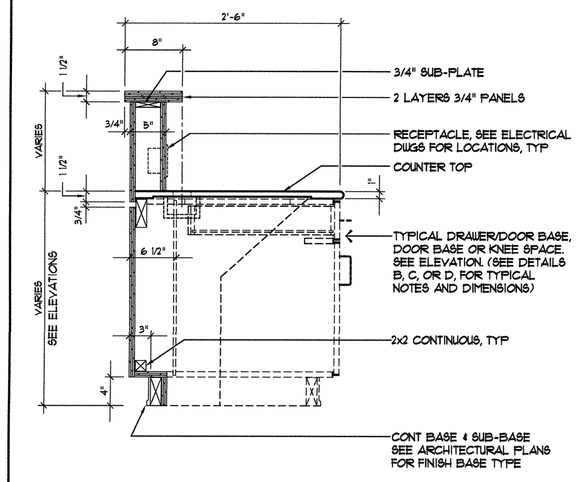
FUTURE DETAIL
SCALE: 1" = 1'-0"



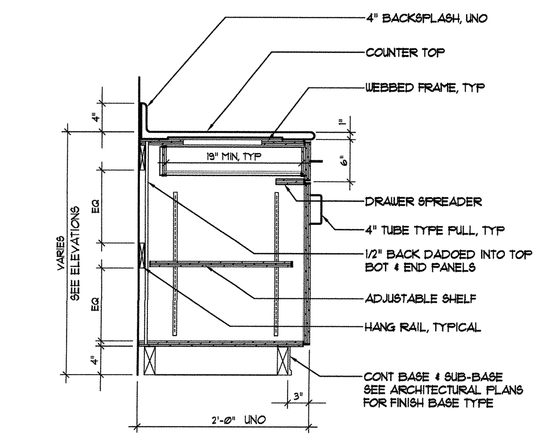
Q BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"



L MAIL BOXES
SCALE: 1" = 1'-0"



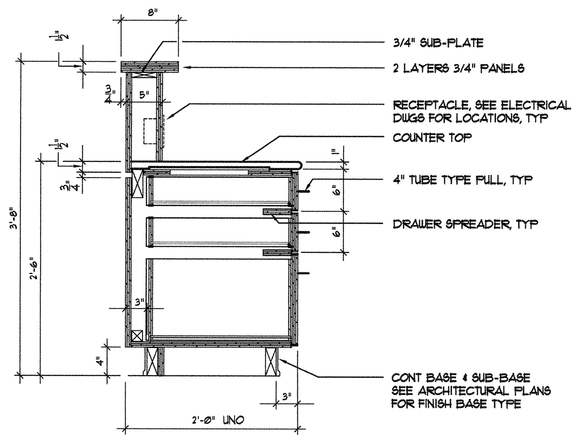
G RAISED COUNTER @ RECEPTION
SCALE: 1" = 1'-0"



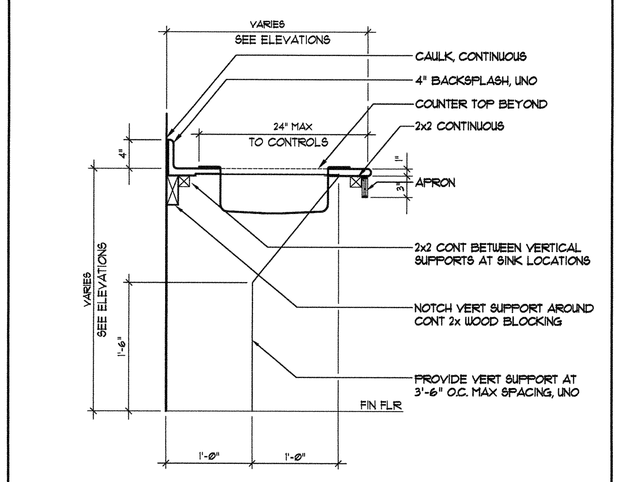
C BASE CAB W/DRAWER & DOOR
SCALE: 1" = 1'-0"

NOTE: ONLY LIMITED CABINETS ARE INCLUDED IN THE GMP. THIS ENTIRE SHEET OF CABINET DETAILS MAY NOT BE IN THE CONTRACT, BUT ARE SHOWN FOR REF.. THE OWNER MAY ELECT TO ADD OTHER CABINETS TO THE CONTRACT, AND THE DETAILS HERE CAN BE USED FOR A BASIS OF DESIGN.

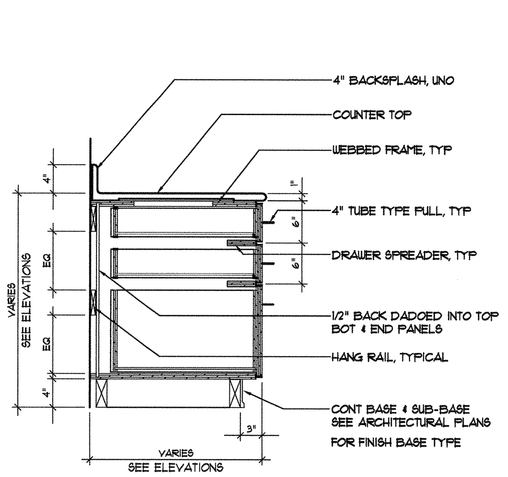
FUTURE DETAIL
SCALE: 1" = 1'-0"



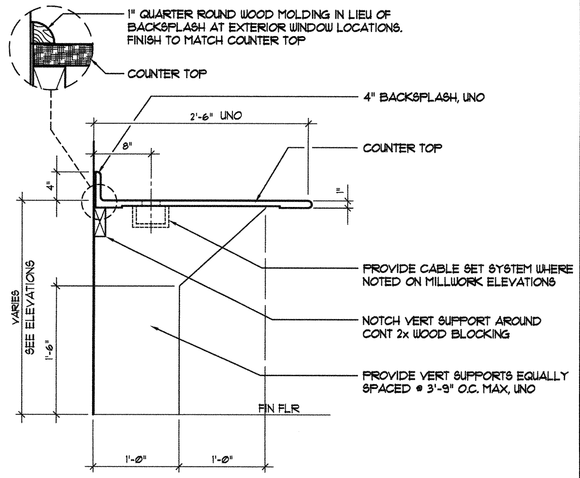
RECEPTION/SECRETERIAL BASE CABINET W/3 DRAWERS
P
SCALE: 1" = 1'-0"



K SINK BASE W/KNEE SPACE
SCALE: 1" = 1'-0"

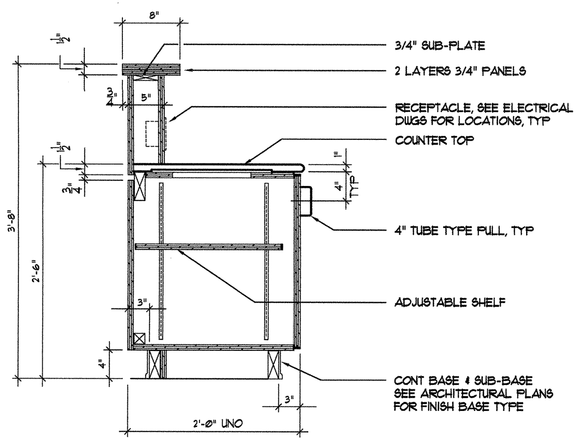


F BASE CABINET W/3 DRAWERS
SCALE: 1" = 1'-0"

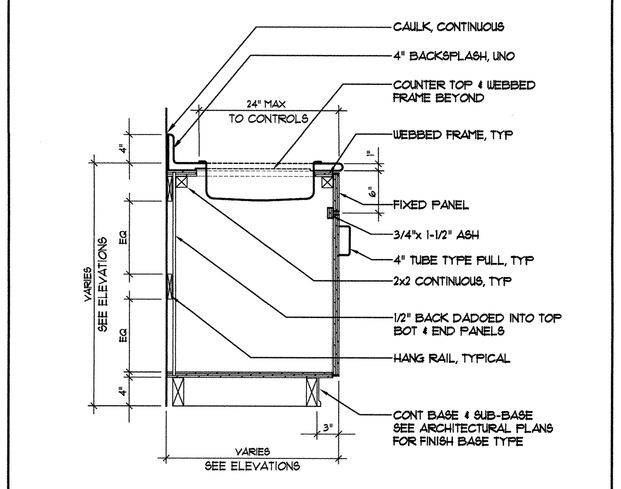


B COUNTER W/KNEE SPACE
SCALE: 1" = 1'-0"

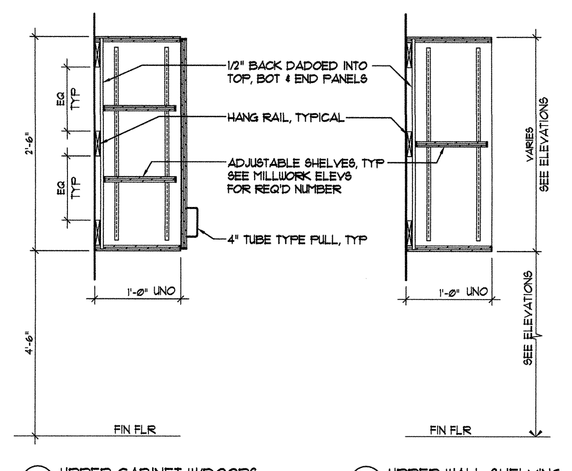
FUTURE DETAIL
SCALE: 1" = 1'-0"



RECEPTION/SECRETERIAL BASE CABINET WITH DOOR
N
SCALE: 1" = 1'-0"

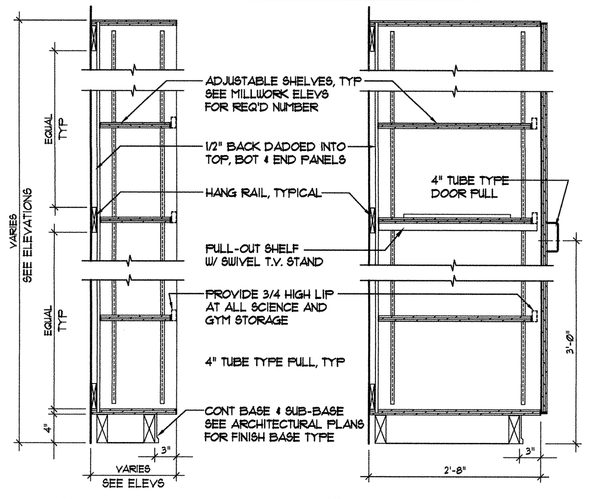


J SINK BASE CABINET W/DOOR
SCALE: 1" = 1'-0"



1 UPPER CABINET W/DOORS
2 UPPER WALL SHELVING

E UPPER CABINETS AND SHELVING
SCALE: 1" = 1'-0"



1 STORAGE SHELVING OPEN
2 STORAGE SHELVING WITH DOORS

A STORAGE SHELVING
SCALE: 1" = 1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
----	-	-	----

JRA Architects, Inc.
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PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
CASEWORK DETAILS

SHEET NUMBER:
A8.2

DOOR SCHEDULE - LEVEL 1

DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT	FTYPE	FMAT	HW-SET	HEAD	JAMB	SILL	REMARKS
1000	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1000A	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1000B	F	FIR 3-0	7-10	1-3/4	-	HM	2	HM	-	1/A9.4	1/A9.4	1/A9.3	-
1000C	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1000D	ENT	FIR 3-0	7-0	1-3/4	1 HR	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1000E	ENT	FIR 3-0	7-0	1-3/4	1 HR	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1001	G	3-0	3-6	1-3/4	-	LID	-	-	-	-	-	-	-
1002	HG	-	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1003	HG	-	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1004	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1005	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1006	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1008	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1009	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1010	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1011	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1012	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1012A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1013	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1014	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1015	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1016	F	2-8	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1017	F	2-8	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1018	ENT	3-0	7-10	1-3/4	-	ALUM	F	ALUM	-	12/A9.3	8/A9.3	1/A9.3	-
1020	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1020A	ENT	FIR 3-0	7-10	1-3/4	-	ALUM	E	ALUM	-	12/A9.3	8/A9.3	1/A9.3	-
1020B	G	3-0	3-6	1-3/4	-	LID	-	-	-	-	-	-	-
1021	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1021A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1022	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1022A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1023	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1023A	F	2-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1023B	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1023C	F	3-0	7-10	1-3/4	-	SCWD	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1024	F	3-0	7-10	1-3/4	-	SCWD	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1025	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1025A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1025B	ENT	3-0	7-10	1-3/4	-	ALUM	D	ALUM	-	12/A9.3	7/A9.5	1/A9.3	-
1026	HG	3-0	7-0	1-3/4	-	SCWD	16	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1027	HG	3-0	7-0	1-3/4	-	SCWD	16	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1028	HG	3-0	7-0	1-3/4	-	SCWD	16	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1029	HG	3-0	7-0	1-3/4	-	SCWD	16	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1030	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1031	HG	3-0	7-0	1-3/4	-	SCWD	16	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1032	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1033	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1034	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1035	F	FIR 3-0/1-6	7-0	1-3/4	-	SCWD	3	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1035A	RO	8-0	8-0	1-3/4	-	STL	-	STL	-	5/A9.4	6/A9.4	-	-
1036	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1037	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1038	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1039	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1039A	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1039B	G	3-0	3-6	1-3/4	-	SCWD	-	-	-	-	-	-	-
1040	G	3-0	3-6	1-3/4	-	SCWD	-	-	-	-	-	-	-
1041	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1042	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1043	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1044	F	FIR 3-0/1-6	7-0	1-3/4	-	SCWD	3	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1044A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1044B	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1045	F	FIR 3-0/1-6	7-0	1-3/4	-	HM	3	HM	-	1/A9.4	1/A9.4	1/A9.3	-
1045A	F	FIR 3-0/1-6	7-0	1-3/4	-	SCWD	3	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1046	F	FIR 2-8	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1047	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1048	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1049	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1050	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1051	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1052	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1053	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1054	HG	3-0	7-0	1-3/4	-	SCWD	12	HM	-	4/A9.3	5/A9.3	1/A9.3	-
1055	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1056	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1057	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1058	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1059	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1060	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1061	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1061A	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1061B	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1063	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	2 HR	2/A9.4	2/A9.4	1/A9.3	-
1063A	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	2 HR	2/A9.4	2/A9.4	1/A9.3	-
1063B	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	2 HR	2/A9.4	2/A9.4	1/A9.3	-
1063C	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	2 HR	2/A9.4	2/A9.4	1/A9.3	-
1063D	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1064	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1064A	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1064B	-	-	-	-	-	-	-	-	-	-	-	-	-
1064C	-	-	DELETE DOOR # 1064B AND 1064C										
1064D	F	3-0	7-0	1-3/4	-	SCWD	1	HM	1 HR	2/A9.4	4/A9.3	1/A9.3	-
1064E	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1064F	F	3-0	8-0	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1064G	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1065	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1066	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1068	RO	10-0	10-0	1-3/4	1 1/2 HR	S STL	-	S STL	-	3/A9.4, SIM.	-	-	-
1068A	F	3-0	7-0	1-3/4	-	SCWD	-	HM	2 HR	2/A9.4	2/A9.4	1/A9.3	-
1068B	RO	10-0	3-8	1-3/4	1 1/2 HR	S STL	-	S STL	-	3/A9.4	3/A9.4	3/A9.4	-
1069	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1070	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1070A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1071	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1072	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1073	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1073A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
1074	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1075	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1076	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1076A	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1077	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1078	G	3-0	3-6	1-3/4	-	SCWD	-	-	-	-	-	-	-
1078A	G	3-0	3-6	1-3/4	-	SCWD	-	-	-	-	-	-	-
1079	F	3-0	7-0	1-3/4	-	HM	1	HM	-	1/A9.4	1/A9.4	1/A9.3	-
1080	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1081	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1082	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1083	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1084	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1085	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1086	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1086A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1086B	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1087	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-

DOOR SCHEDULE - LEVEL 1 CONT.

DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT	FTYPE	FMAT	HW-SET	HEAD	JAMB	SILL	REMARKS
1114C	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1114D	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1095	HG	3-0	7-0	1-3/4	1 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1096B	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1097	F	2-8	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1112	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1107	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1107A	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1114E	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1092	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1108	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1096D	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1096A	NL	FIR 3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1100	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1107B	ENT	FIR 3-0	7-10	1-3/4	-	ALUM	E	ALUM	-	12/A9.3	8/A9.3	1/A9.3	-
1096	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1107C	OH	8-0	8-0	1-3/4	-	HM	-	HM	-	6/A9.4	5/A9.4	-	-
1107B	F	3-0	7-10	1-3/4	-	HM	1	HM	-	2/A9.3	3/A9.3	1/A9.3	-
1114	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1091	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1105	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1068A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1098	-	3-0	7-0	1-3/4	-	SCWD	-	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1103	HG	FIR 3-0	7-0	1-3/4	1 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1102	HG	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1122	F	FIR 3-0	7-0	1-3/4	1 HR	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	OPP SWING
1123	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1111	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1096C	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1089	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1093	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1099	F	2-8	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
1119	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1096	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1114A	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1088	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1124	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1100B	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1101A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-

DOOR SCHEDULE - LEVEL 2

DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT	FTYPE	FMAT	HW-SET	HEAD	JAMB	SILL	REMARKS
2000A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2000B	F	FIR 2-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2000C	ENT	3-0	7-0	1-3/4	-	ALUM	G	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
2000D	ENT	3-0	7-0	1-3/4	-	ALUM	G	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
2000E	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2000F	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2000G	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2001	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2002	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2003	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2004	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2005	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2006	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2007	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2008	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2009	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2010	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2012	FG	FIR 3-0/1-6	7-0	1-3/4	-	SCWD	3	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2012A	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2012B	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2013	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2014	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2015	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2016	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2017	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2017A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2017B	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2018	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2019	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2020	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2021	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2022	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2023	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2024	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2025	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2026	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2026A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2059	HG	3-0	7-0	1-3/4	-	SCWD	4A	HM	-	4/A9.3	6/A9.3	1/A9.3	-
2059A	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2060	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2061	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2062	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2062A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2063	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2064	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
2065	HG	3-0	7-0	1-3/4	-	SCWD	1

1050	HG	3-0	7-0	1-3/4	-	SCWD	1
1051	HG	3-0	7-0	1-3/4	-	SCWD	1
1052	HG	3-0	7-0	1-3/4	-	SCWD	1
1053	F	3-0	7-0	1-3/4	-	SCWD	1
1054	HG	3-0	7-0	1-3/4	-	SCWD	1
1055	F	3-0	7-0	1-3/4	-	SCWD	1
1056	F	3-0	7-0	1-3/4	-	SCWD	1
1057	F	3-0	7-0	1-3/4	-	SCWD	1
1058	F	3-0	7-0	1-3/4	-	SCWD	1
1059	F	3-0	7-0	1-3/4	-	SCWD	1
1060	F	3-0	7-0	1-3/4	-	SCWD	1
1061	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1
1061A	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1
1062	F	3-0	7-0	1-3/4	1 1/2 HR	SCWD	1

DELETE DOOR # 1053

JRA Architects, Inc.
2609 Thomas Dr, Suite 105
Panama City, Florida 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584

PROJECT: BAY COUNTY ADMINISTRATION BLDG
PANAMA CITY, FLORIDA

DATE: 9/24/08
DRAWN: BC
AFFECTED DOCUMENTS: A9.1
ISSUED IN CONJUNCTION WITH:

ASI: 16
JRA PROJECT NO: 06318
SHEET NO: SK5

3-0	7-0	1-3/4	-	SCWD	1	MM	-
3-0	7-0	1-3/4	1/2 HR	SCWD	1	MM	-
3-0	7-0	1-3/4	-	SCWD	1	MM	-
3-0	7-0	1-3/4	-	SCWD	1	MM	2 HR
3-0	7-0	1-3/4	-	SCWD	1	MM	2 HR
3-0	7-0	1-3/4	-	SCWD	1	MM	2 HR
3-0	7-0	1-3/4	-	SCWD	1	MM	2 HR
3-0	7-0	1-3/4	-	SCWD	1	MM	-
3-0	7-0	1-3/4	-	SCWD	5	MM	-
3-0	7-0	1-3/4	-	SCWD	5	MM	-
-	-	-	-	-	-	-	-
3-0	7-0	1-3/4	-	SCWD	1	MM	1 HR
3-0	7-0	1-3/4	-	SCWD	1	MM	1 HR
3-0	7-0	1-3/4	-	MM	1	MM	-
3-0	7-0	1-3/4	-	SCWD	1	MM	-

DELETE DOOR # 1061A

DELETE DOOR # 1064B AND 1064C

DELETE DOOR # 1064E

DELETE DOORS 1061A, 1064E

3-0	7-0	1-3/4	-	SCWD	1	MM	-
3-0	7-0	1-3/4	-	SCWD	1	MM	4/A9.3
3-0	7-10	1-3/4	-	MM	1	MM	2/A9.3
3-0	7-0	1-3/4	-	SCWD	1	MM	4/A9.3
3-0	7-0	1-3/4	-	SCWD	1	MM	4/A9.3
3-0	7-0	1-3/4	-	SCWD	1	MM	2/A9.3
3-0	7-10	1-3/4	-	SCWD	1	MM	4/A9.3
3-0	7-0	1-3/4	-	SCWD	1	MM	4/A9.3
3-0	7-10	1-3/4	-	ALUM	D	ALUM	17/A9.3
3-0	7-0	1-3/4	-	SCWD	16	MM	4/A9.3

DELETE DOOR # 1062B AND 1023C

1044A	F	3-0	7-0	1-3/4	-	SCWD	1
1044B	HG	3-0	7-0	1-3/4	-	SCWD	1
1045	F	PR 3-0/1-6	7-0	1-3/4	-	MM	3
1045A	F	PR 3-0/1-6	7-0	1-3/4	45 MIN	SCWD	3
1046	F	PR 2-8	7-0	1-3/4	-	SCWD	2
1047	HG	3-0	7-0	1-3/4	-	SCWD	1
1048	HG	3-0	7-0	1-3/4	-	SCWD	1
1049	HG	3-0	7-0	1-3/4	-	SCWD	1
1050	HG	3-0	7-0	1-3/4	-	SCWD	1
1051	HG	3-0	7-0	1-3/4	-	SCWD	1
1052	HG	3-0	7-0	1-3/4	-	SCWD	1
1054	HG	3-0	7-0	1-3/4	45 MIN	SCWD	12
1055	F	3-0	7-0	1-3/4	-	SCWD	1
1056	F	3-0	7-0	1-3/4	-	SCWD	1
1057	F	3-0	7-0	1-3/4	-	SCWD	1
1058	F	3-0	7-0	1-3/4	-	SCWD	1
1059	F	3-0	7-0	1-3/4	-	SCWD	1
1060	F	3-0	7-0	1-3/4	-	SCWD	1
1061	F	3-0	7-0	1-3/4	-	SCWD	1
1061B	F	3-0	7-10	1-3/4	-	MM	1
1063	NL	3-0	7-0	1-3/4	-	SCWD	1
1063A	NL	3-0	7-0	1-3/4	-	SCWD	1
1063B	NL	3-0	7-0	1-3/4	-	SCWD	1
1063C	NL	3-0	7-0	1-3/4	-	SCWD	1
1063D	NL	3-0	7-0	1-3/4	-	SCWD	1
1064	FG	3-0	7-0	1-3/4	-	SCWD	5
1064A	FG	3-0	7-0	1-3/4	-	SCWD	5
1064D	F	3-0	7-0	1-3/4	-	SCWD	1
1064E	F	3-0	8-0	1-3/4	-	MM	1

ADD 45 MINUTE FIRE RATING TO DOOR # 1045A & 1054. REMOVE FIRE RATING FROM 1064D

3018	FG	PR 3-0	7-0	1-3/4			
3018A	NL	3-0	7-0	1-3/4			
3019	F	3-0	7-0	1-3/4			
3020	F	3-0	7-0	1-3/4			

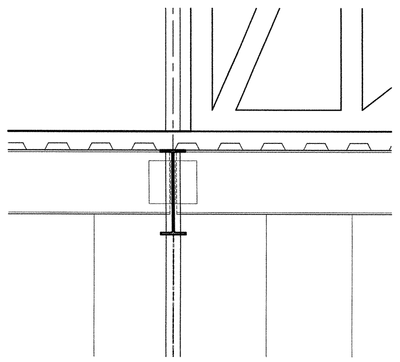
ADD DOOR # 3020 SIM. TO 3008

110	HG	3-0	7-0	1-3/4	-	SCWD	
1056	NL	3-0	7-0	1-3/4	-	SCWD	
1144A	ENT	3-0	7-10	1-3/4	-	ALUM	
1288	HG	3-0	7-0	1-3/4	-	SCWD	
1124	HG	3-0	7-0	1-3/4	-	SCWD	
1100B	HG	3-0	7-0	1-3/4	-	SCWD	
1014	F	3-0	7-0	1-3/4			

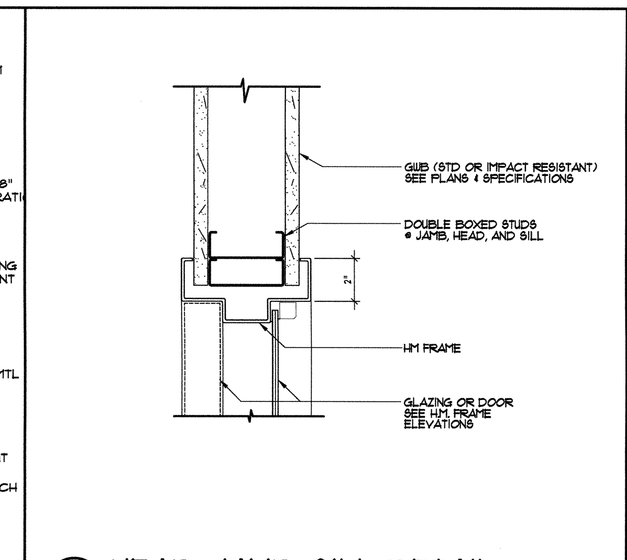
ADD DOOR # 1115 SIM. TO DOOR SCHEDU

DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT
2000A	F	3-0	7-0	1-3/4	-	SCWD
2000B	F	PR 2-0	7-0	1-3/4	-	SCWD
2000C	ENT	3-0	7-0	1-3/4	-	ALUM
2000D	ENT	3-0	7-0	1-3/4	-	ALUM
2000E	F	3-0	7-0	1-3/4	-	SCWD
2000F	F	PR 3-0	7-0	1-3/4	-	SCWD
2000G	F	PR 3-0	7-0	1-3/4	-	SCWD

REVISIONS TO SHEET A9.1

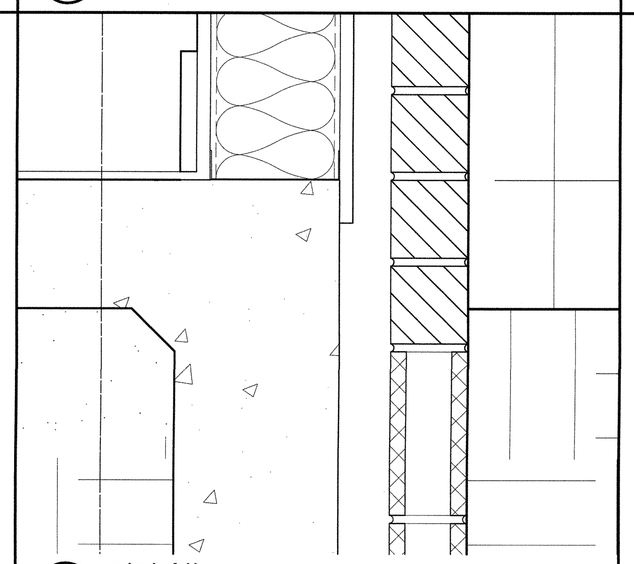


16 DETAIL
SCALE: 1/2" = 1'-0" A-DT-021

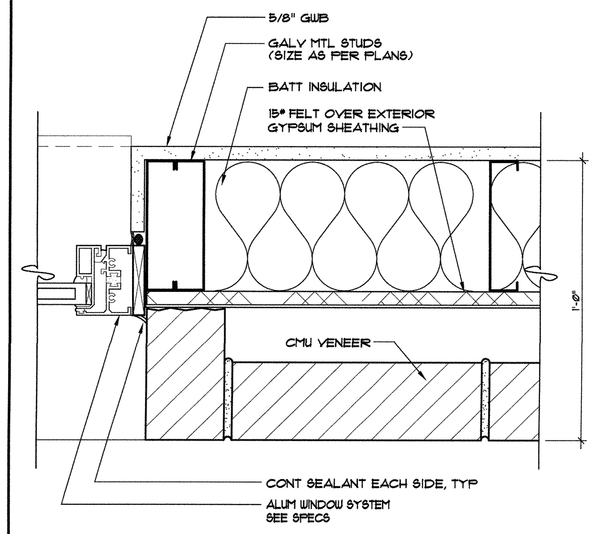


8 HEAD DETAIL
SCALE: 3" = 1'-0" A-DT-012

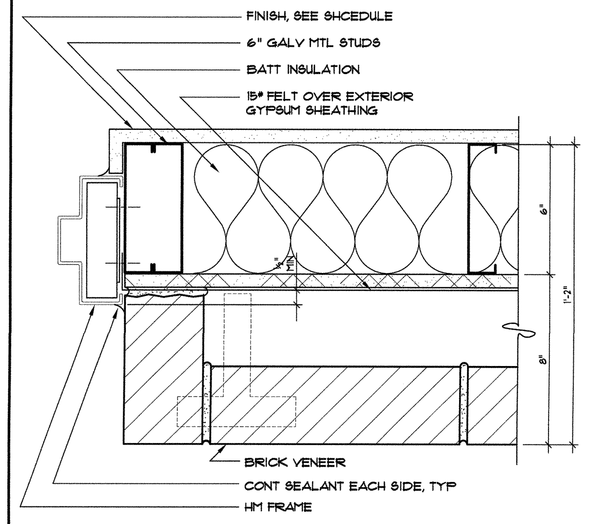
4 HEAD, JAMB, SILL DETAIL
SCALE: 3" = 1'-0" A-DT-005



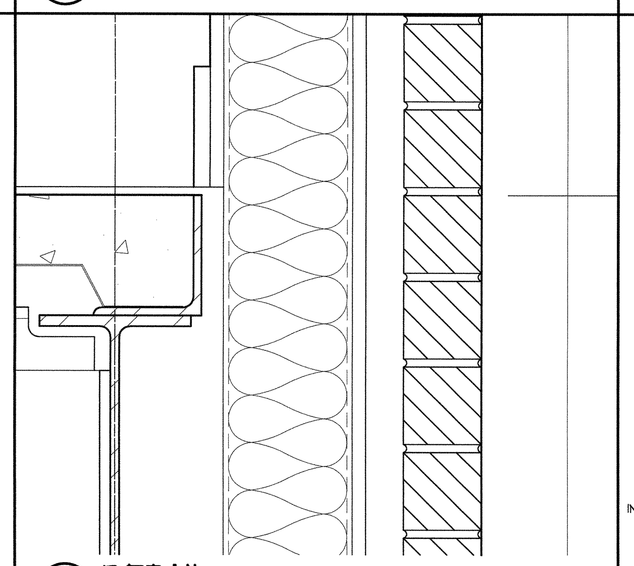
15 DETAIL
SCALE: 3" = 1'-0" A-DT-020



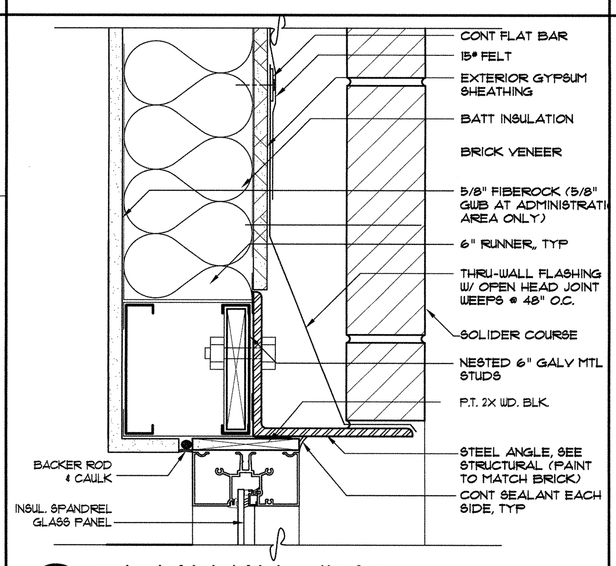
7 JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-010



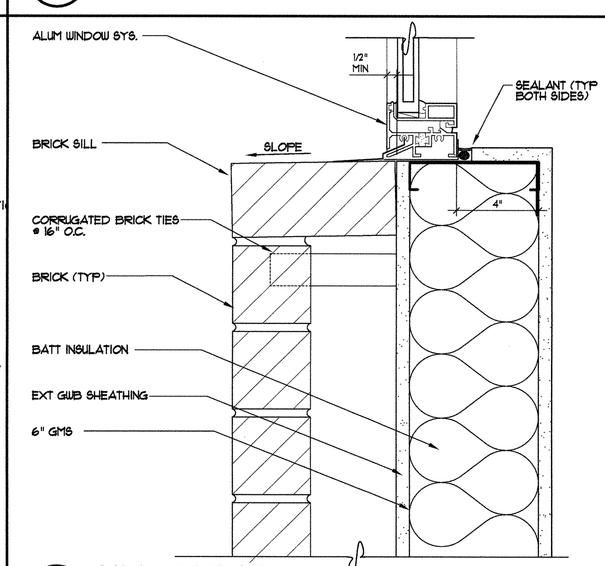
3 JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-006



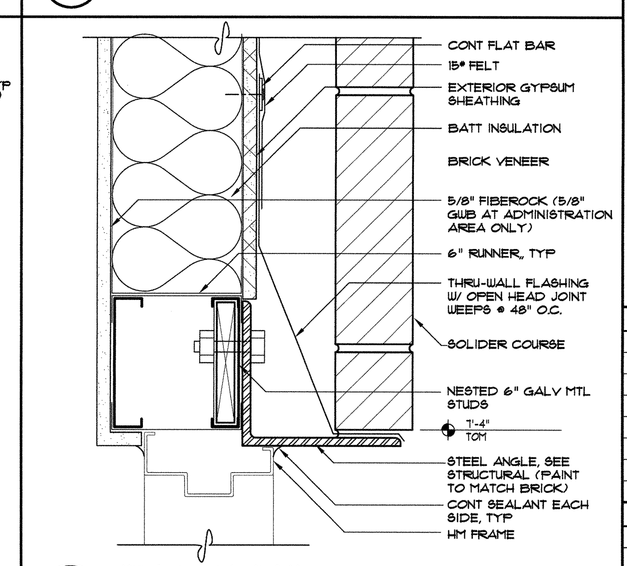
14 DETAIL
SCALE: 1/2" = 1'-0" A-DT-019



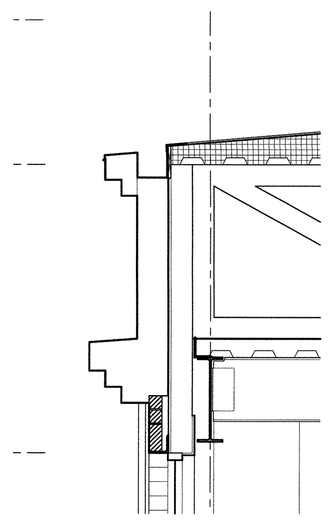
10 CURTAINWALL HEAD
SCALE: 3" = 1'-0" A-DT-013



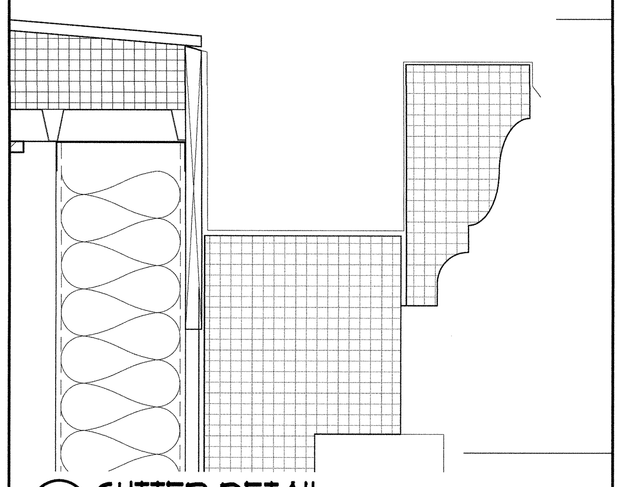
6 SILL DETAIL
SCALE: 3" = 1'-0" A-DT-009



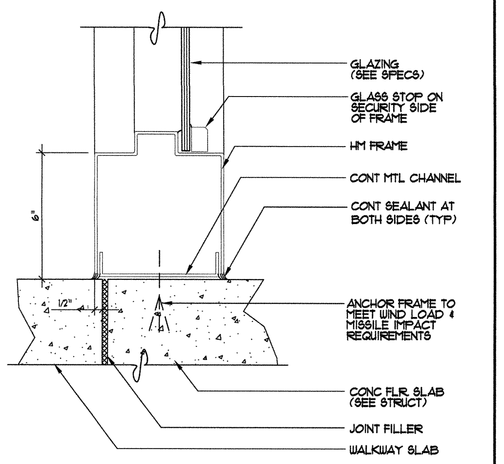
2 HEAD DETAIL
SCALE: 3"=1'-0" A-DT-007



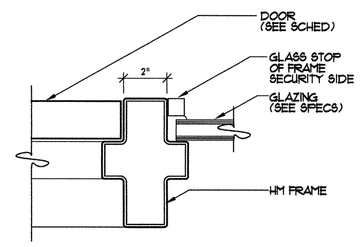
17 DETAIL
SCALE: 1/2" = 1'-0" A-DT-021



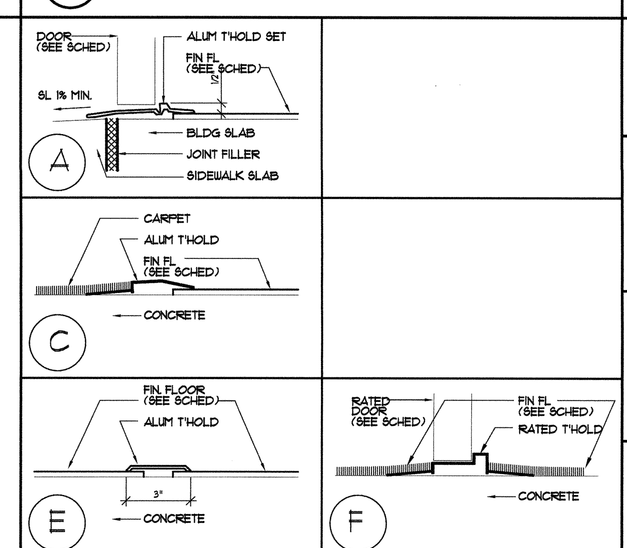
13 GUTTER DETAIL
SCALE: 3" = 1'-0" A-DT-018



9 SILL DETAIL
SCALE: 3" = 1'-0" A-DT-024



5 JAMB DETAIL (TRANSOM SIMILAR)
SCALE: 3" = 1'-0" A-DT-026



1 THRESHOLD DETAILS
SCALE: 3" = 1'-0" A-DT-001

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

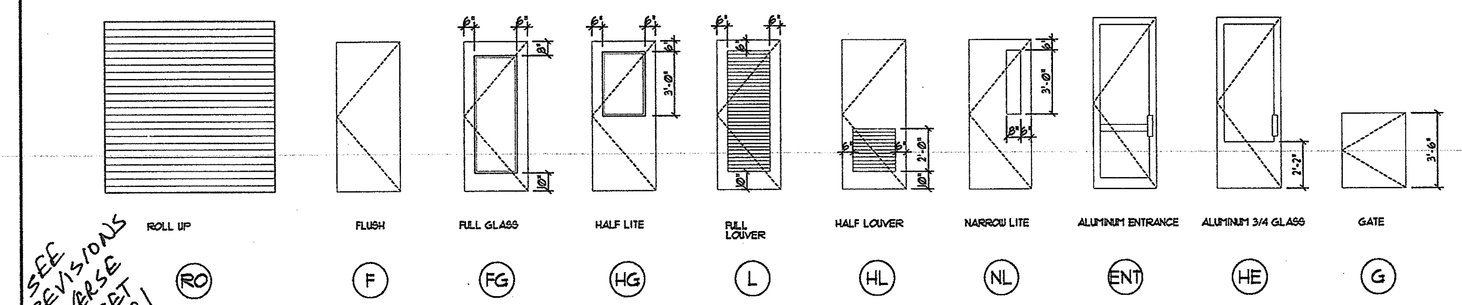
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

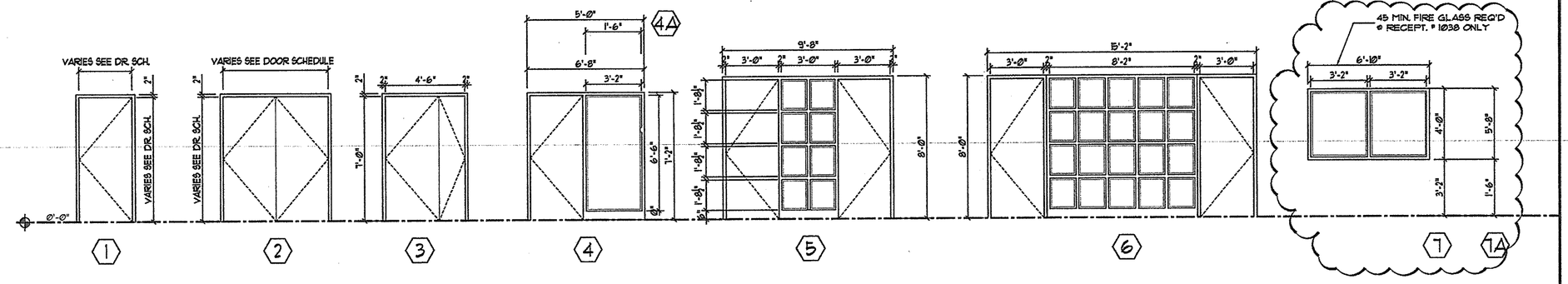
PANAMA CITY, FLORIDA

SHEET TITLE:
DETAILS

SHEET NUMBER:
A9.1

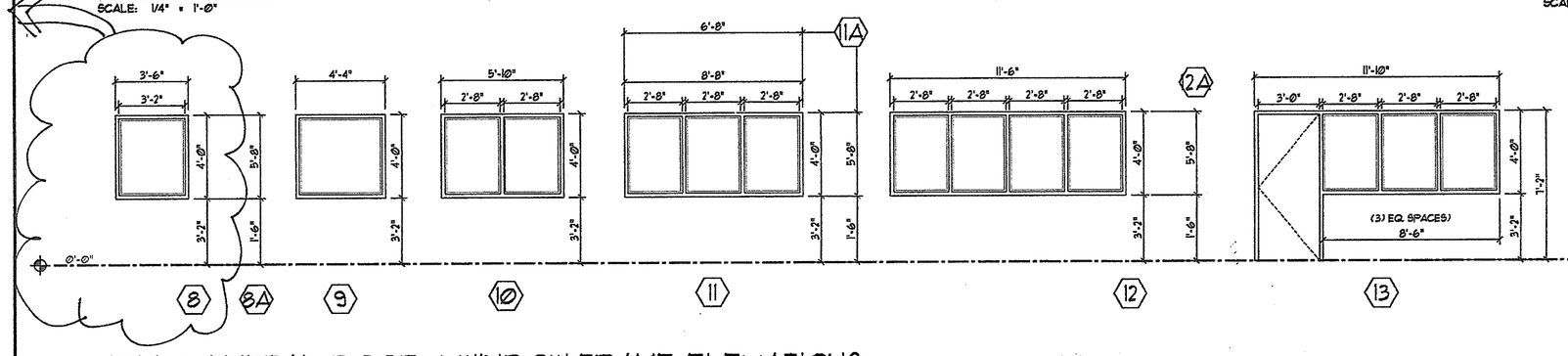


SEE REVISIONS RELEASE SHEET A9.1



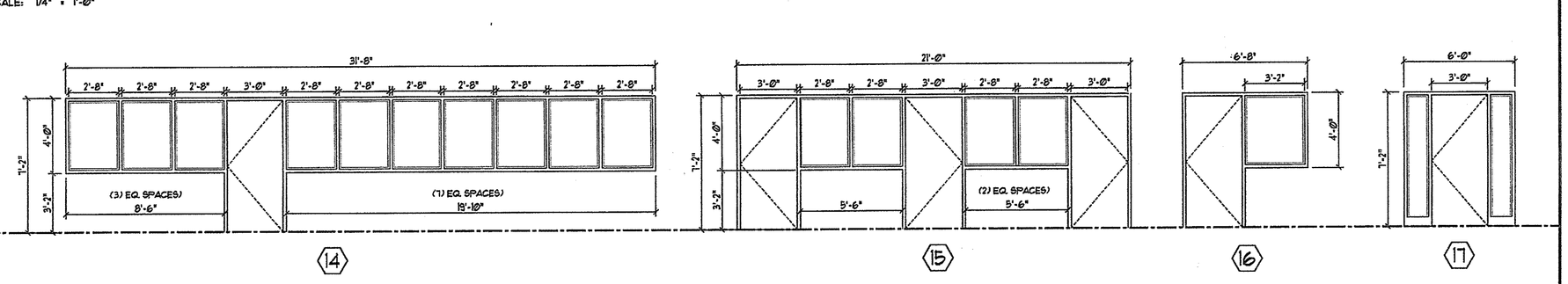
DOOR TYPE ELEVATIONS

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



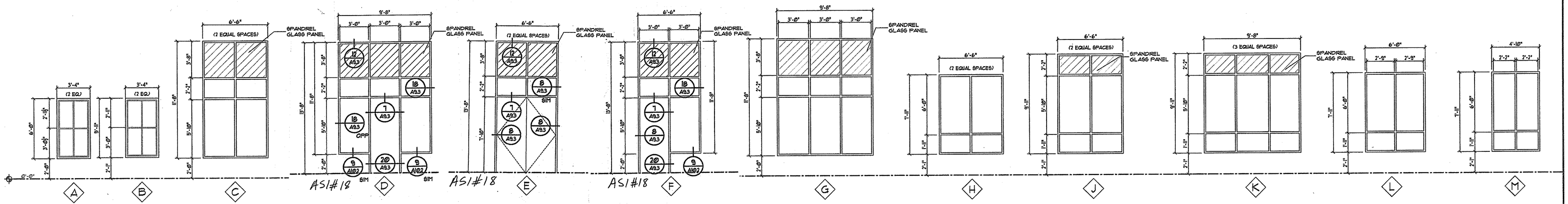
HOLLOW METAL DOOR & WINDOW FRAME ELEVATIONS

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



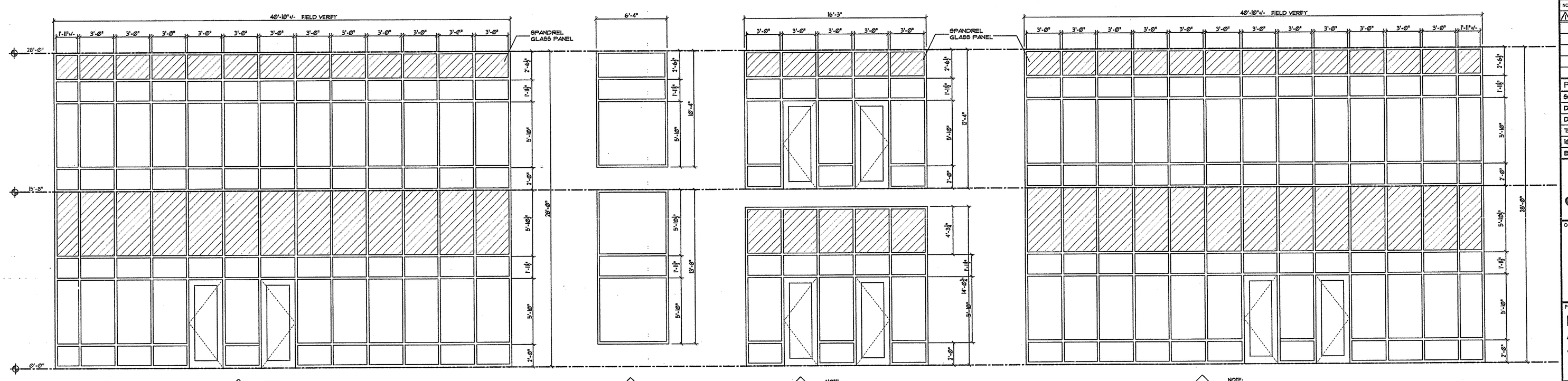
HOLLOW METAL DOOR & WINDOW FRAME ELEVATIONS

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



DOOR & WINDOW STOREFRONT FRAME ELEVATIONS

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



NOTE: THE CURTAINWALL IS CURVED SEE PLAN FOR CURVATURE AND DIMESIONS.

CURTAINWALL ELEVATIONS

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

REVISIONS:				
NO	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 8 - CODE REVIEW			5/30/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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Commission Number: 06318

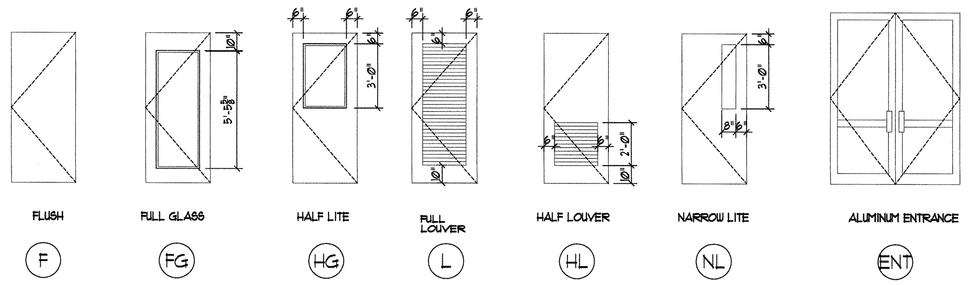
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

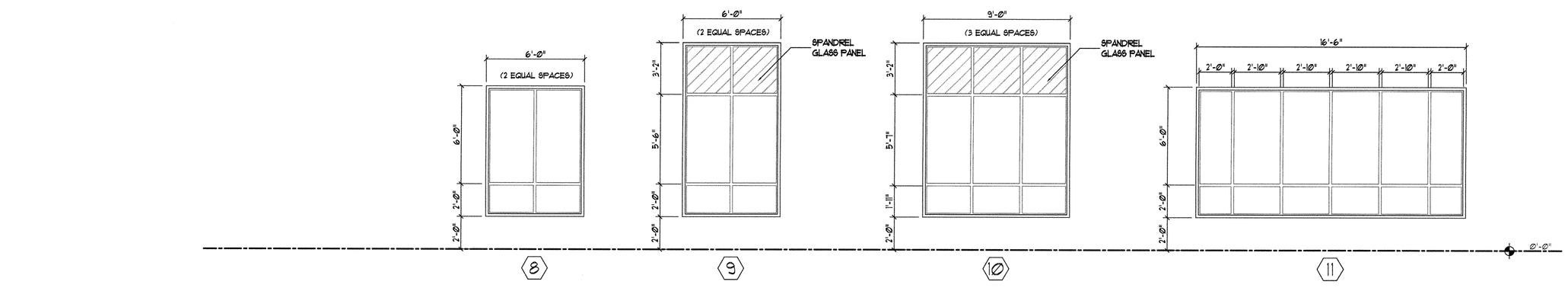
SHEET TITLE:
DOOR AND WINDOW ELEVATIONS

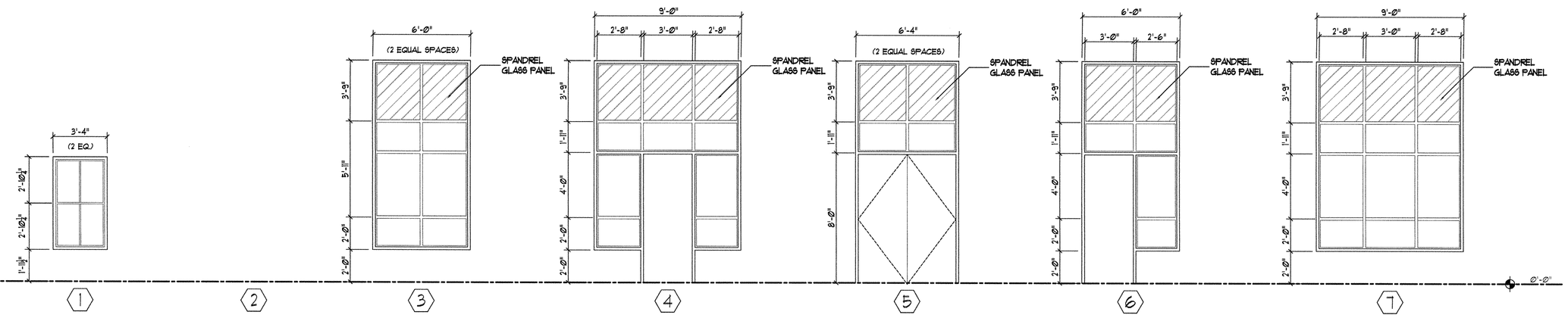
SHEET NUMBER:
A9.2



DOOR TYPE ELEVATIONS

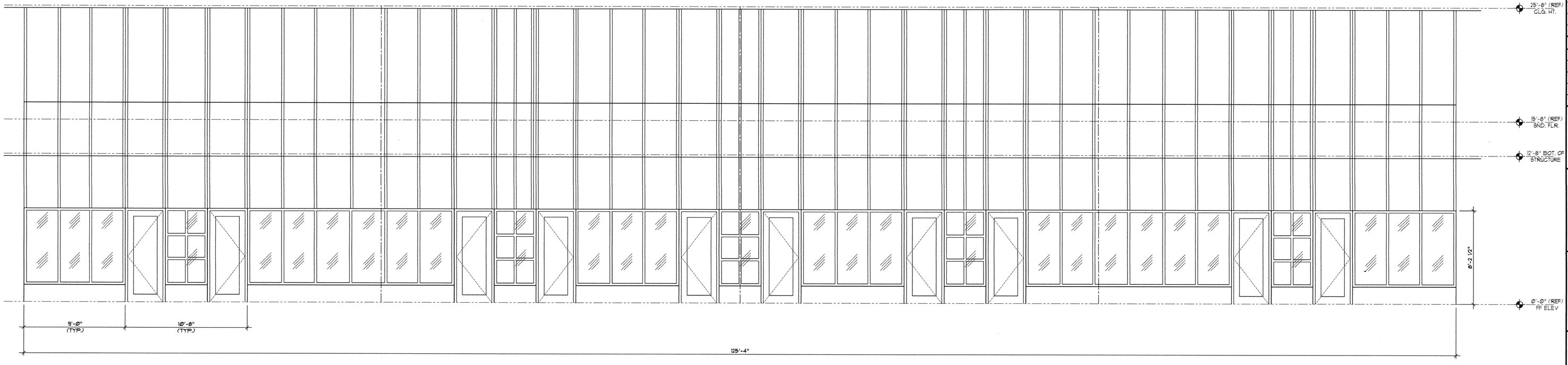
SCALE: 1/4" = 1'-0"





DOOR & WINDOW FRAME ELEVATIONS

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



WINDOW/DOOR ELEVATIONS

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	05-18-06
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
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JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

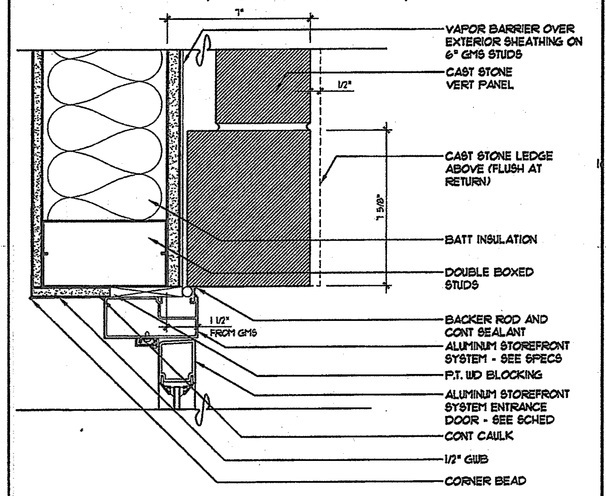
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DOOR AND WINDOW ELEVATIONS

SHEET NUMBER:

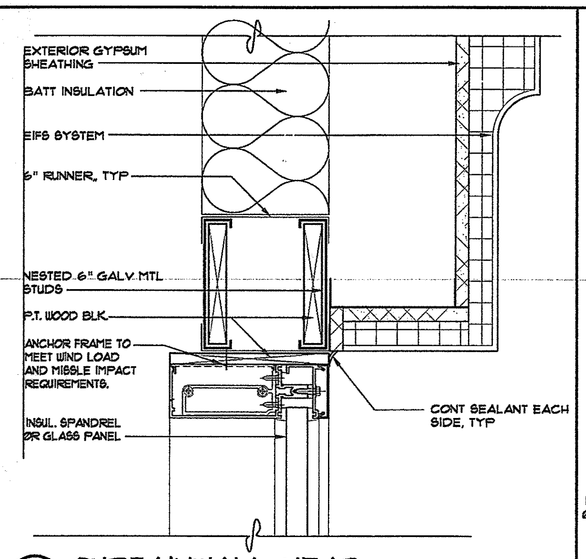
A9.2

ASI #18 9/2/08



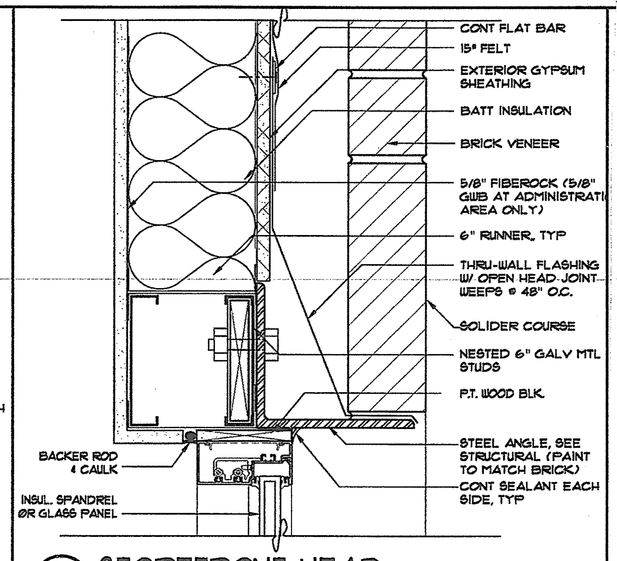
20 STOREFRONT JAMB DETAIL

SCALE: 3" = 1'-0" A-DT-010



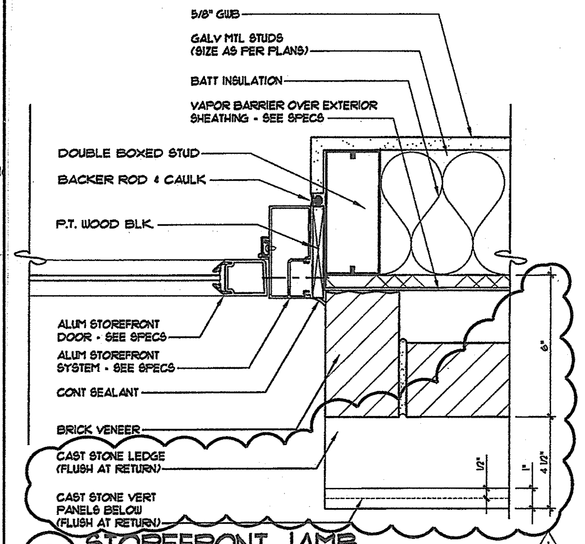
16 CURTAINWALL HEAD

SCALE: 3" = 1'-0" A-DT-095



12 STOREFRONT HEAD

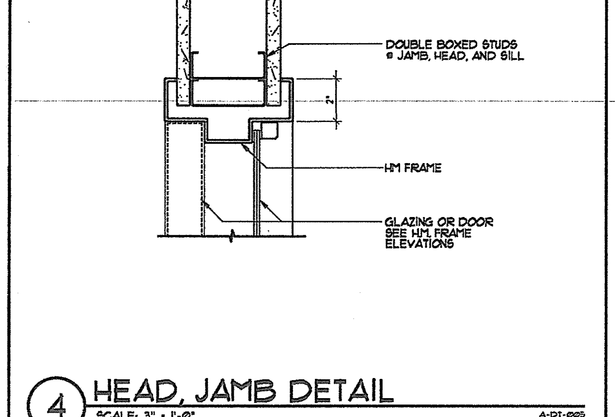
SCALE: 3" = 1'-0" A-DT-013



8 STOREFRONT JAMB

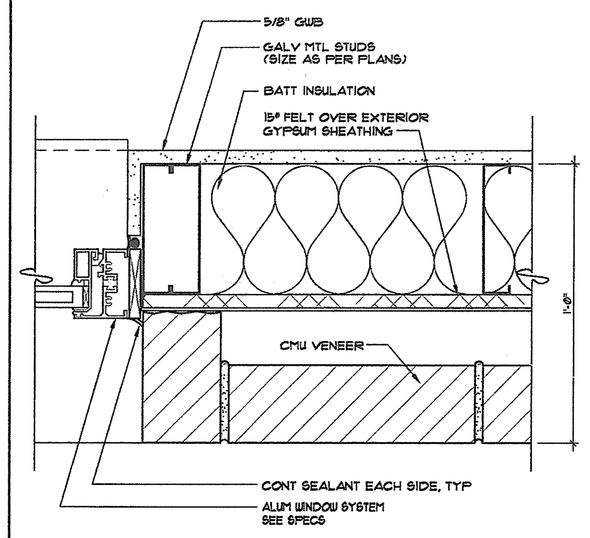
SCALE: 3" = 1'-0" A-DT-001

ASI #18 9/2/08



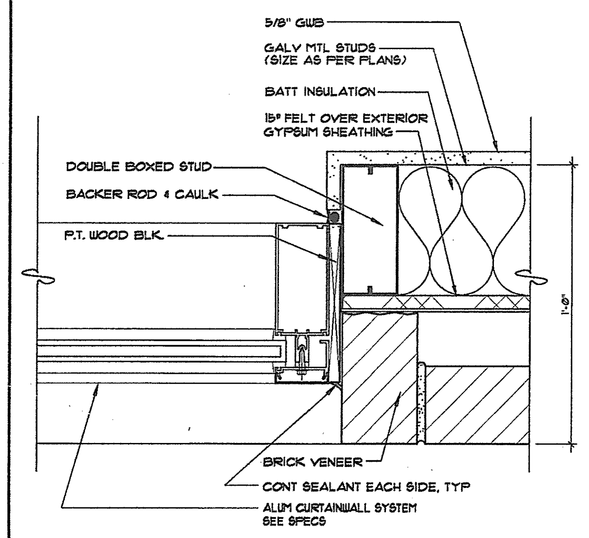
4 HEAD, JAMB DETAIL

SCALE: 3" = 1'-0" A-DT-005



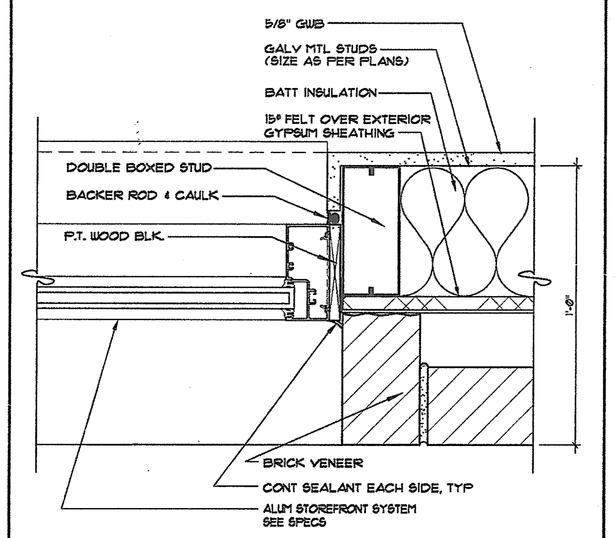
19 WINDOW JAMB DETAIL

SCALE: 3" = 1'-0" A-DT-010



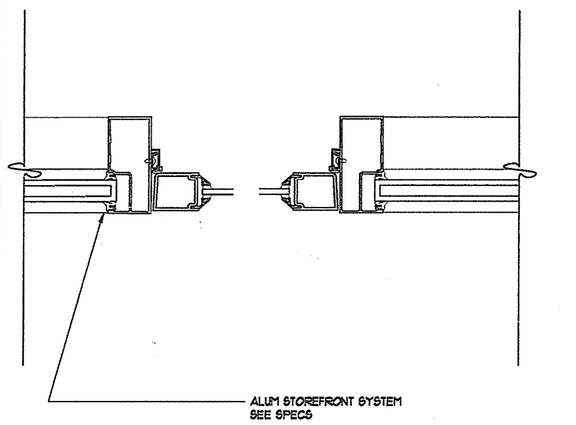
15 CURTAINWALL JAMB

SCALE: 3" = 1'-0" A-DT-096



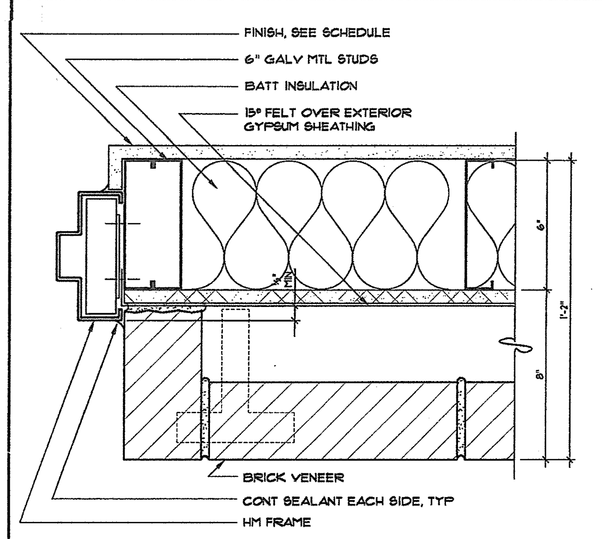
11 STOREFRONT JAMB

SCALE: 3" = 1'-0" A-DT-003



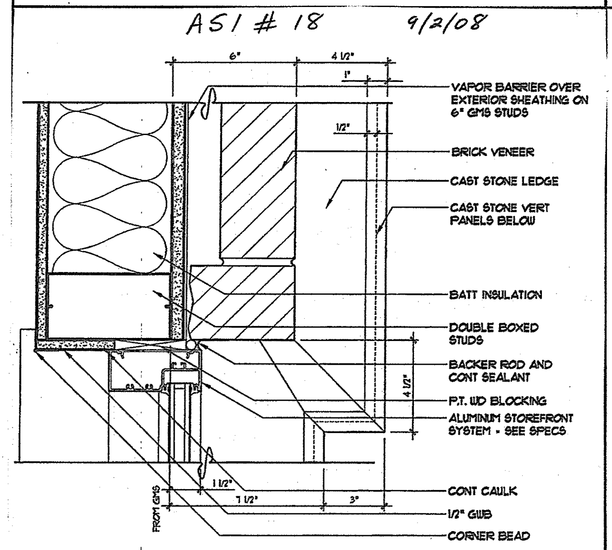
7 STOREFRONT JAMB

SCALE: 3" = 1'-0" A-DT-060



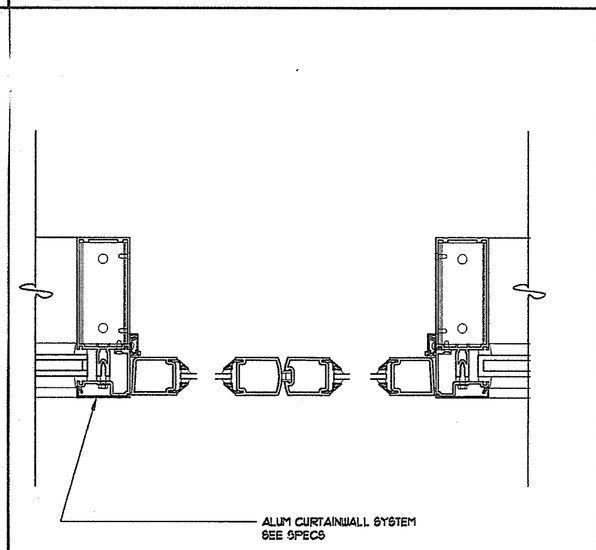
3 JAMB DETAIL

SCALE: 3" = 1'-0" A-DT-008



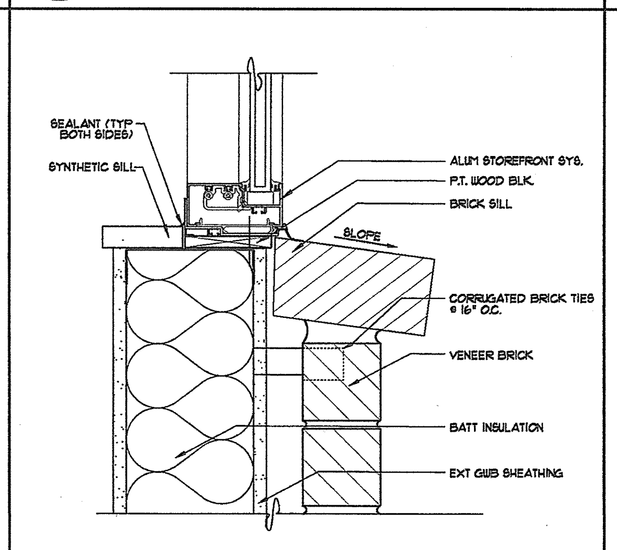
18 STOREFRONT JAMB DETAIL

SCALE: 3" = 1'-0" A-DT-005



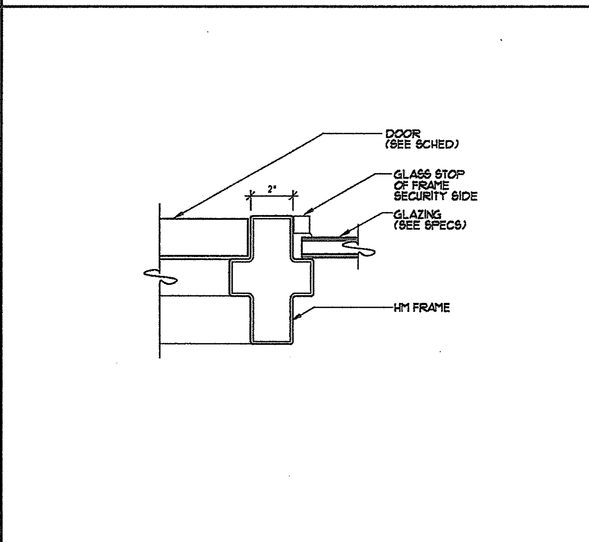
14 CURTAINWALL JAMB

SCALE: 3" = 1'-0" A-DT-051



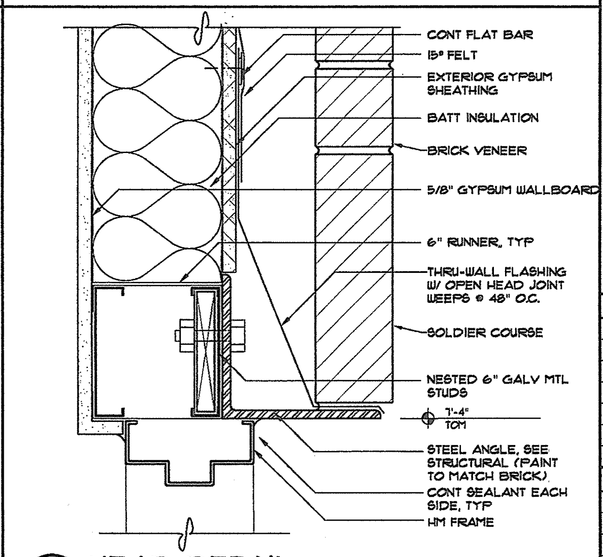
10 STOREFRONT SILL

SCALE: 3" = 1'-0" A-DT-004



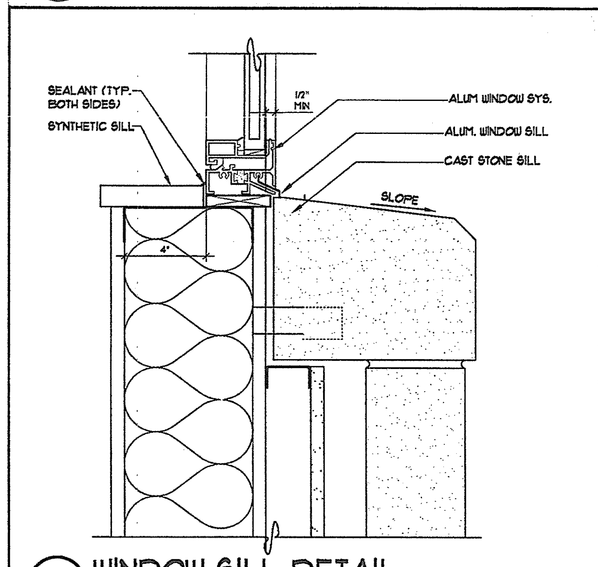
6 JAMB DETAIL (TRANSOM SIMILAR)

SCALE: 3" = 1'-0" A-DT-006



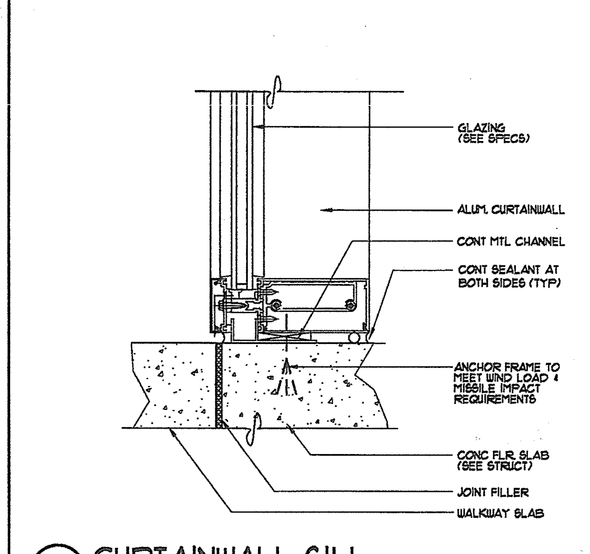
2 HEAD DETAIL

SCALE: 3"=1'-0" A-DT-001



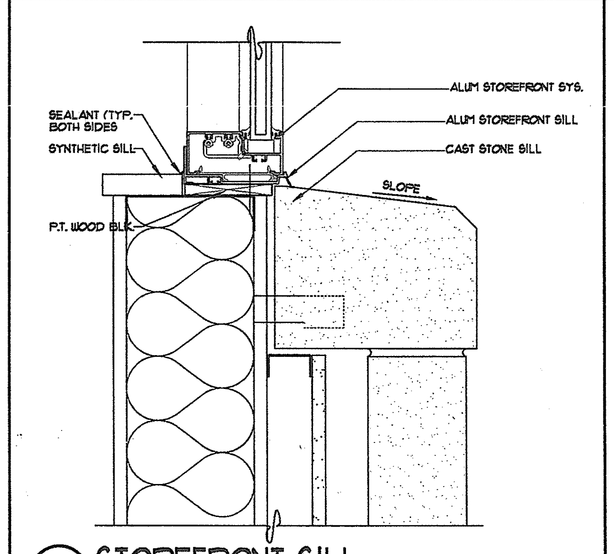
17 WINDOW SILL DETAIL

SCALE: 3" = 1'-0" A-DT-050



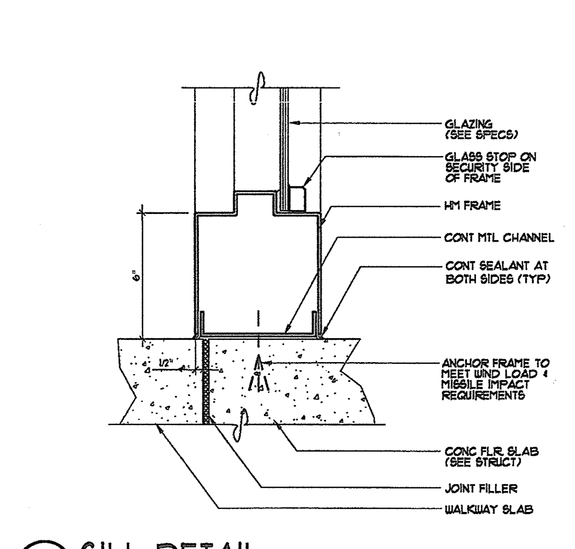
13 CURTAINWALL SILL

SCALE: 3" = 1'-0" A-DT-052



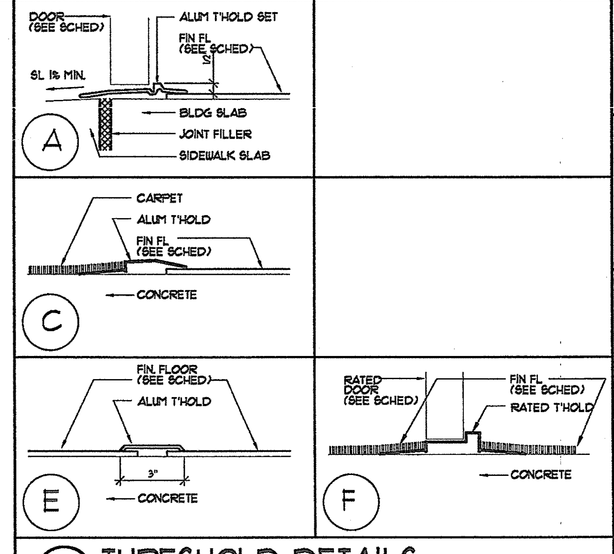
9 STOREFRONT SILL

SCALE: 3" = 1'-0" A-DT-056



5 SILL DETAIL

SCALE: 3" = 1'-0" A-DT-004



1 THRESHOLD DETAILS

SCALE: 3" = 1'-0" A-DT-001

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

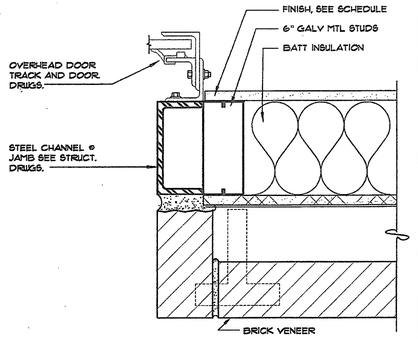
SHEET TITLE:

HEAD - JAMB - SILL - DETAILS

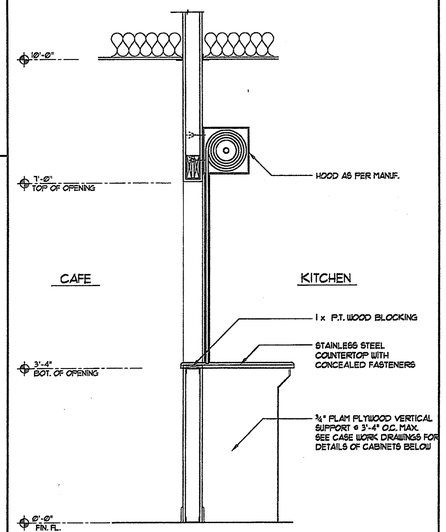
SHEET NUMBER:

A9.3

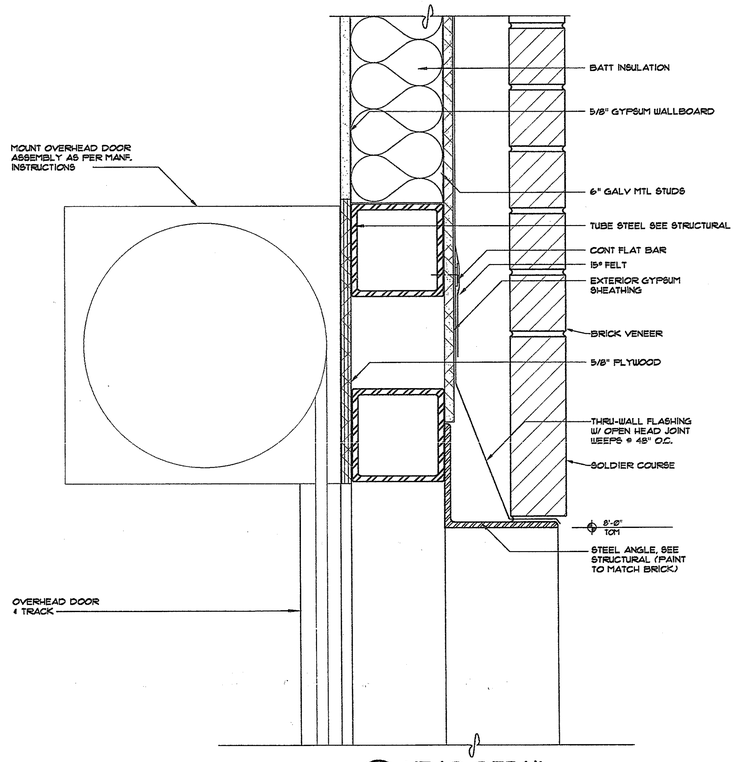
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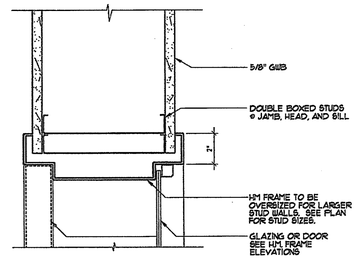
6 JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-065



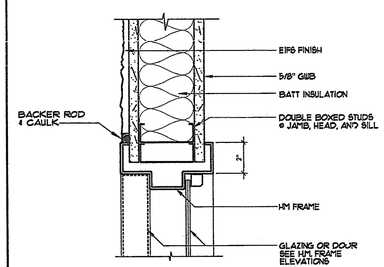
3 ROLL UP DOOR SECTION
SCALE: 3/4" = 1'-0" A-DT-071DWG



5 HEAD DETAIL
SCALE: 3"=1'-0" A-DT-069



2 HEAD, JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-067



1 HEAD, JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-066

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ASI # 2 / SUPPLEMENTAL SHEET			03-24-08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-26-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-15-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 06318

CONSULTANTS:

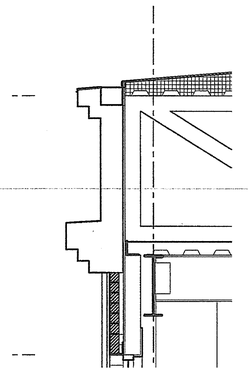
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

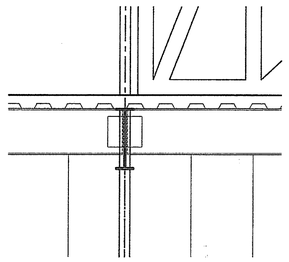
SHEET TITLE:
DETAILS

SHEET NUMBER:
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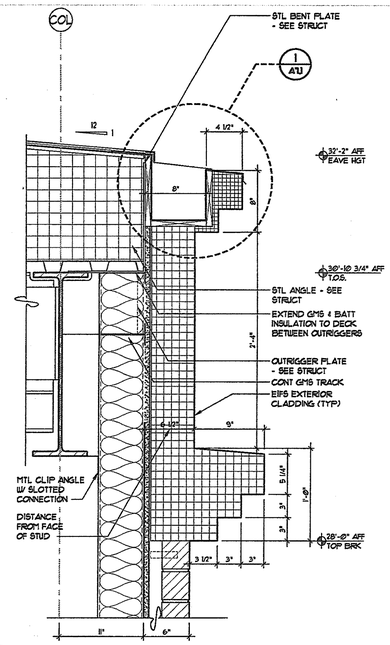
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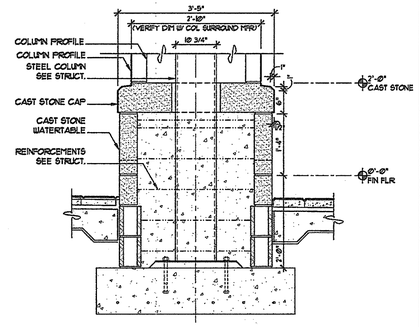
DETAIL
SCALE: 1/2" = 1'-0"
A-DT-071



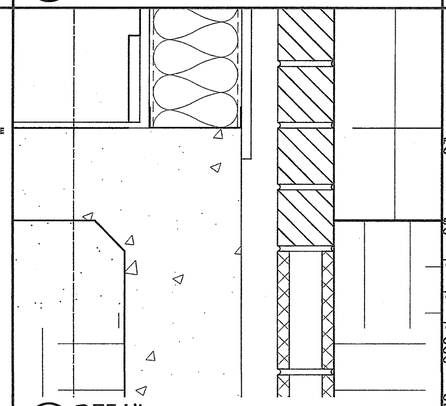
DETAIL
SCALE: 1/2" = 1'-0"
A-DT-071



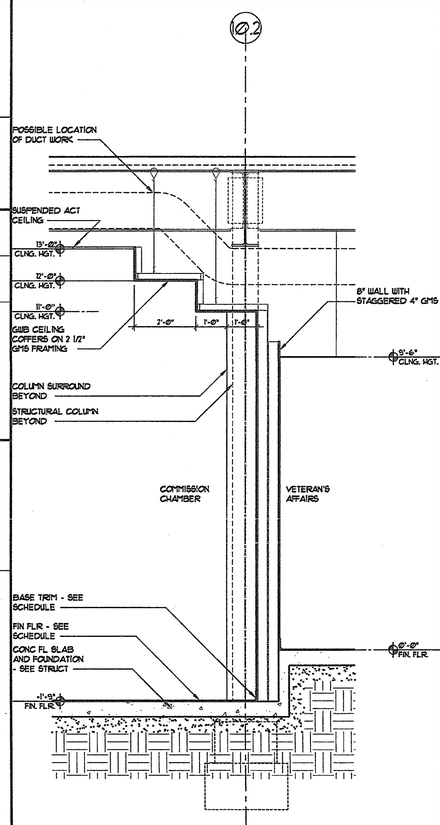
17 EIFS SECTION
SCALE: 1 1/2" = 1'-0"
A-DT-026.DWG



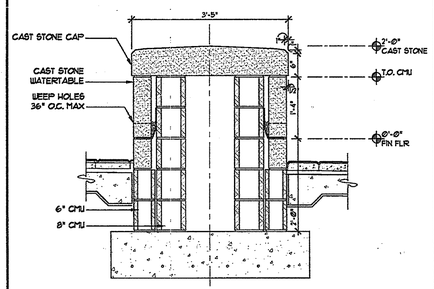
SEAT WALL / EXT. ROTUNDA COL.
SCALE: 3/4" = 1'-0"
A-DT-070



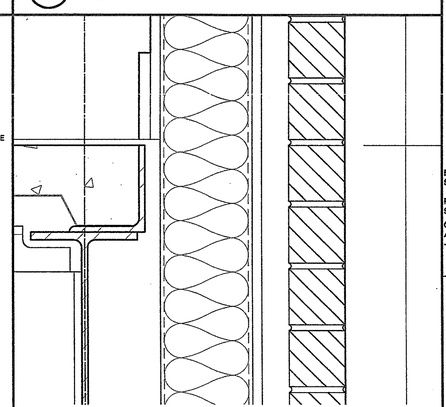
DETAIL
SCALE: 3" = 1'-0"
A-DT-070



1 PARTIAL WALL SECTION
SCALE: 1/2" = 1'-0"
A-DT-071



SEAT WALL
SCALE: 3/4" = 1'-0"
A-DT-070



DETAIL
SCALE: 1/2" = 1'-0"
A-DT-073

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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Commission Number: 06316

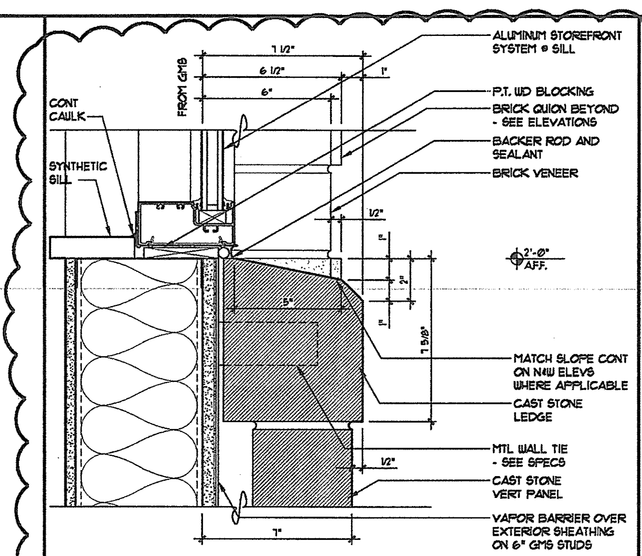
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

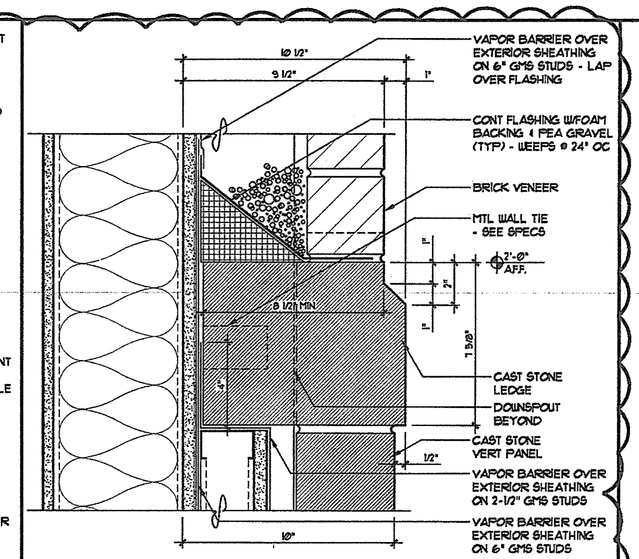
PANAMA CITY, FLORIDA

SHEET TITLE:
DETAILS

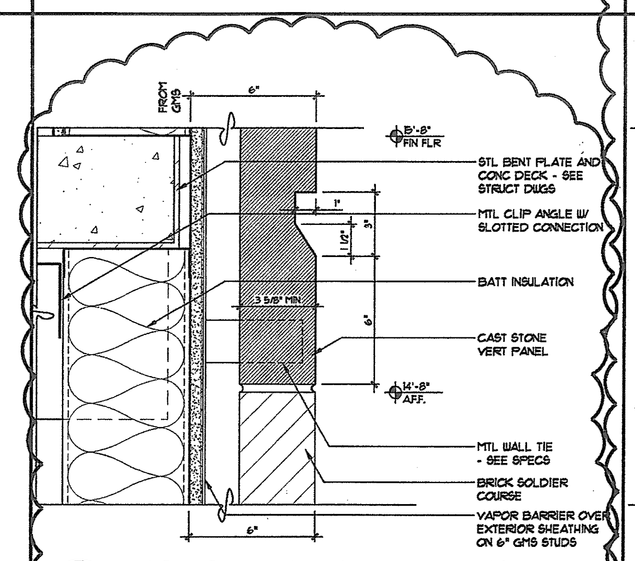
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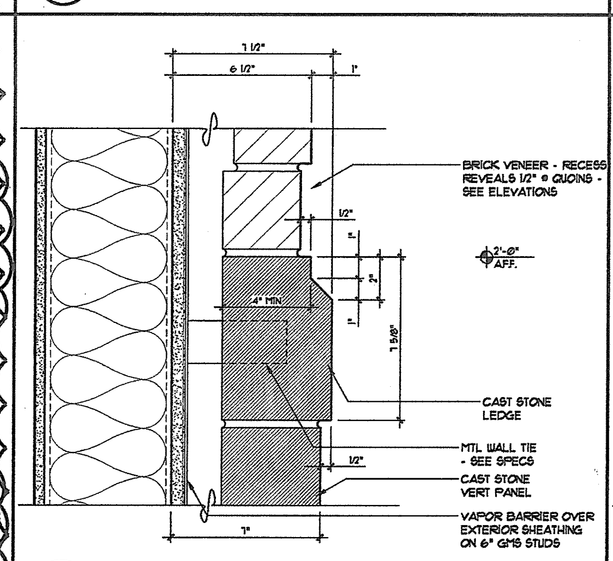
8 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-113.DWG



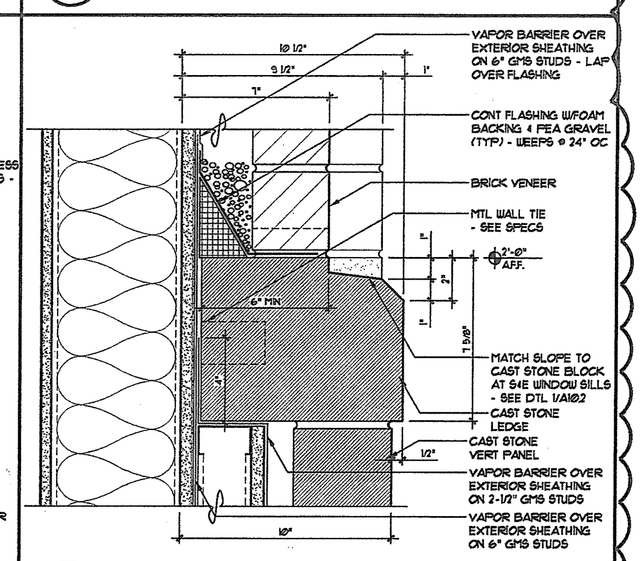
4 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-104.DWG



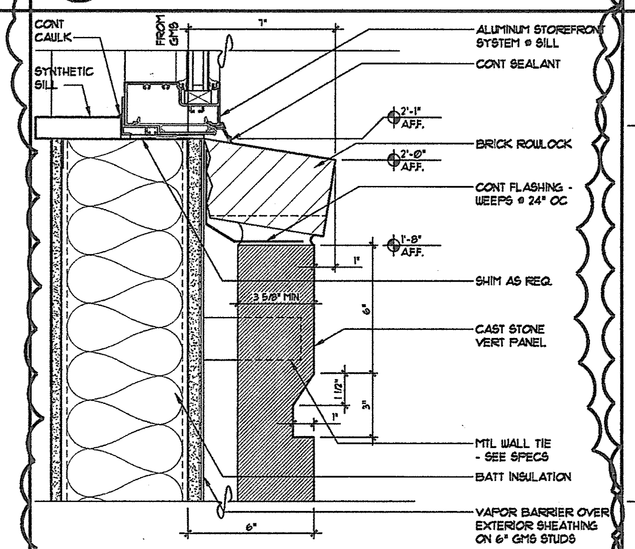
11 CAST STONE PANEL DETAIL
SCALE: 3" = 1'-0"
A-DT-117.DWG



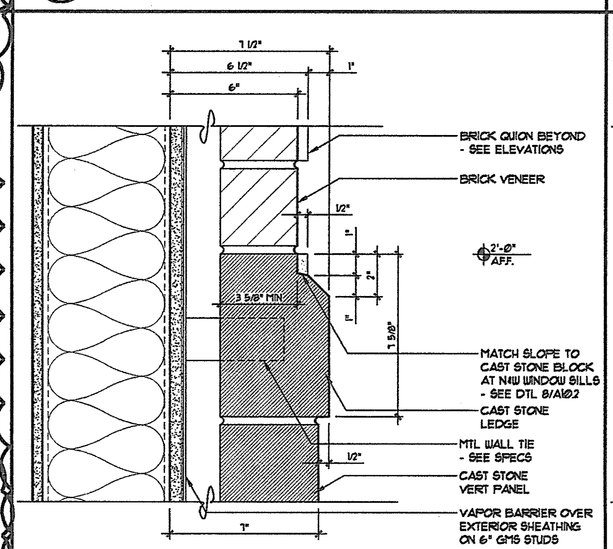
7 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-120.DWG



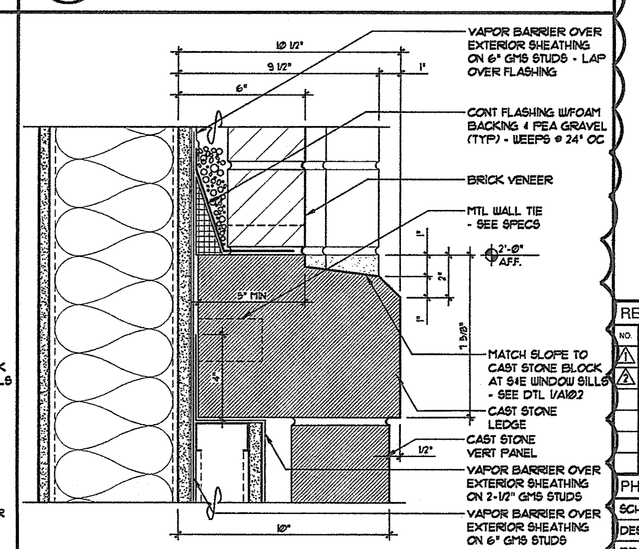
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A-DT-103.DWG



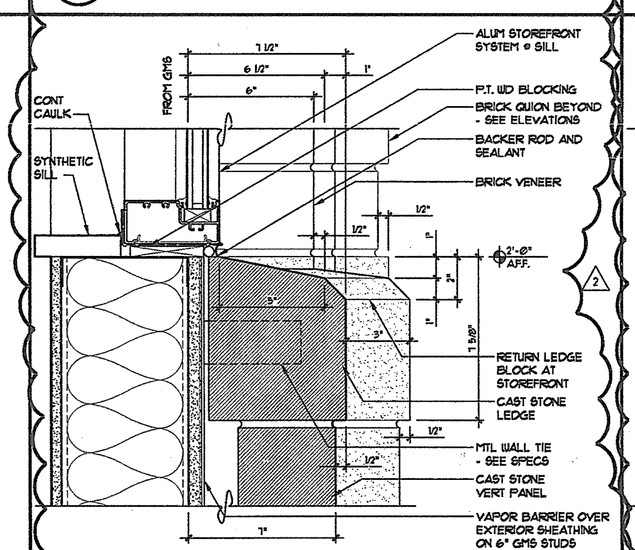
10 CAST STONE PANEL DETAIL
SCALE: 3" = 1'-0"
A-DT-116.DWG



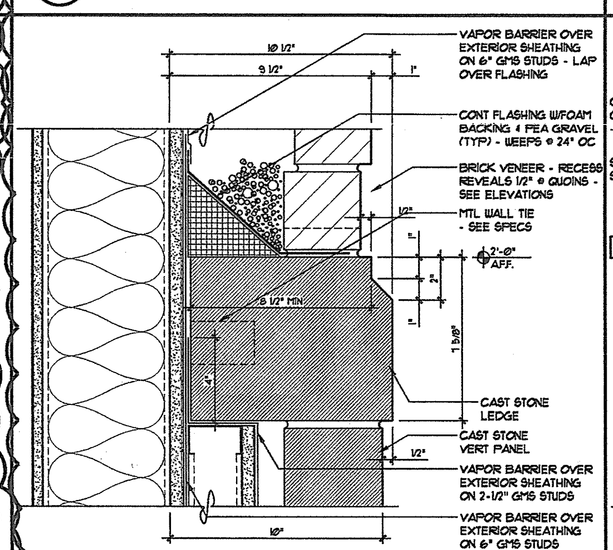
6 LEDGE BLOCK DETAIL
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A-DT-119.DWG



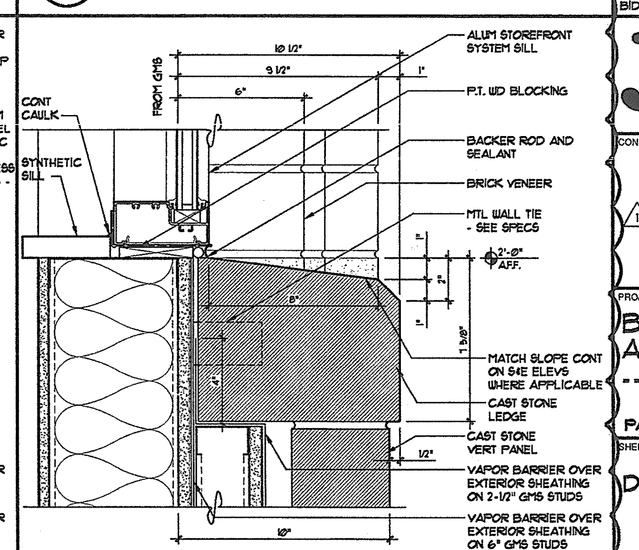
2 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-102.DWG



9 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-114.DWG



5 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-106.DWG



1 LEDGE BLOCK DETAIL
SCALE: 3" = 1'-0"
A-DT-101.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	RFI # 42: BRICK DIMENSIONS	CJ	DB	8/22/08
2	AS1 # 18: CAST STONE DTLS	CJ	DB	9/2/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	3-14-07
DESIGN DEVELOPMENT	-	-	06-26-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 235-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

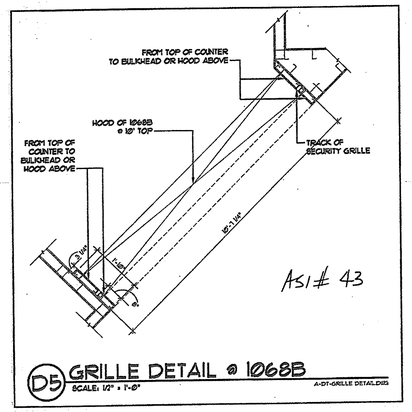
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

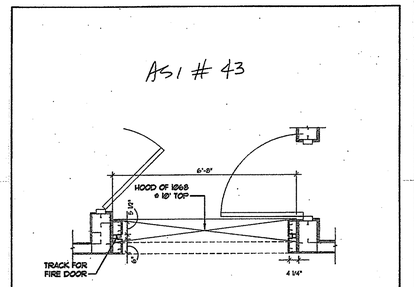
PANAMA CITY, FLORIDA

SHEET TITLE:
DETAILS

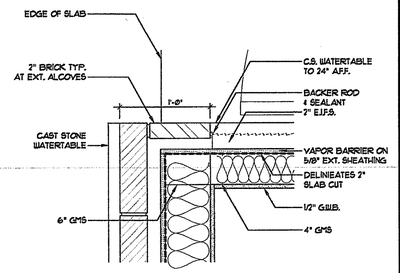
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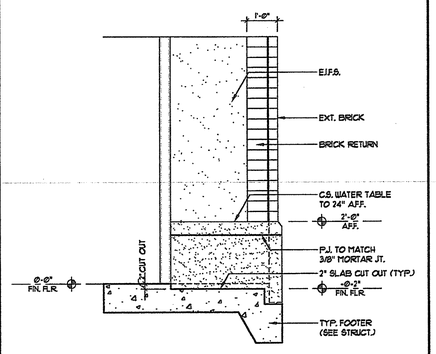
D5 GRILLE DETAIL @ 1068B
SCALE: 1/2" = 1'-0" A-DT-GRILLE DETAILDIS



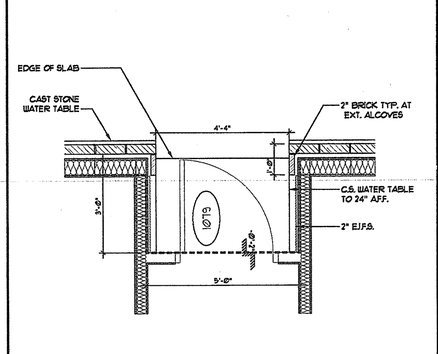
D4 FIRE DOOR DETAIL @ 1068
SCALE: 1/2" = 1'-0" A-DT-FIRE DOORDIS



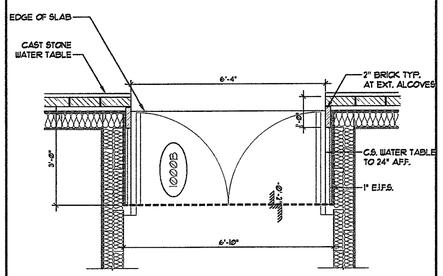
D3 EXTERIOR ALCOVE
SCALE: 1-1/2" = 1'-0" A-DT-112



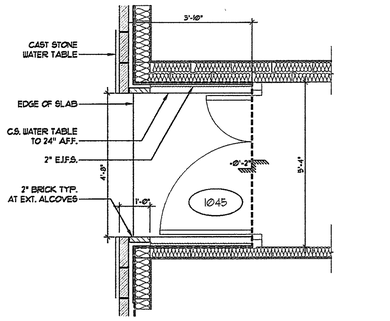
D2 TYPICAL EXTERIOR ALCOVE
SCALE: 1/2" = 1'-0" A-DT-105



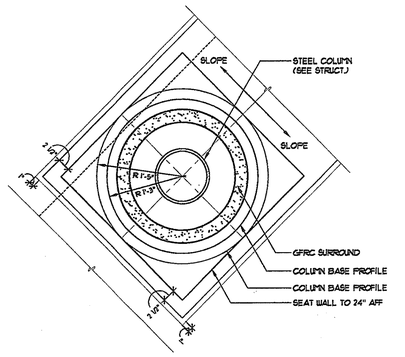
D1 EXTERIOR ALCOVE
SCALE: 1/2" = 1'-0" A-DT-100



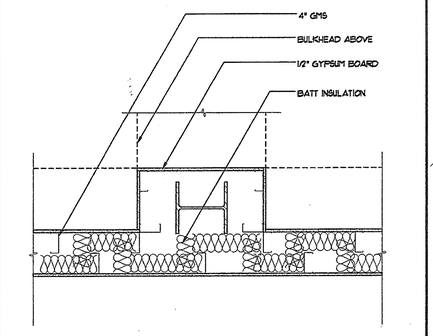
C5 EXTERIOR ALCOVE
SCALE: 1/2" = 1'-0" A-DT-109



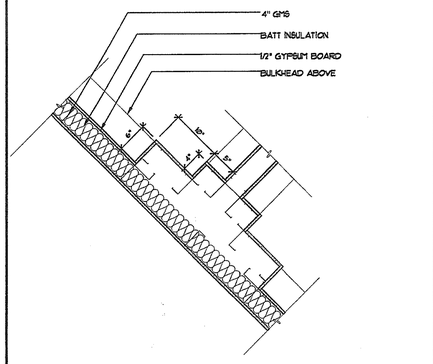
C4 EXTERIOR ALCOVE
SCALE: 1/2" = 1'-0" A-DT-108



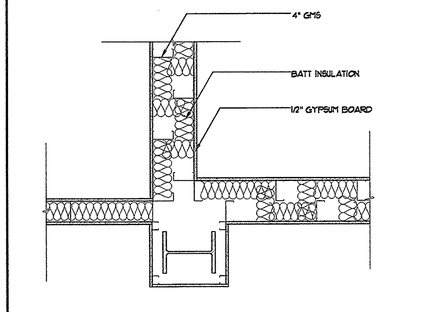
C3 ENTRY COLUMN
SCALE: 1" = 1'-0" A-DT-046



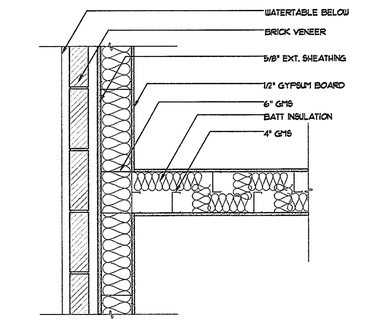
C2 ADMIN COLUMN SURROUND
SCALE: 1" = 1'-0" A-DT-041



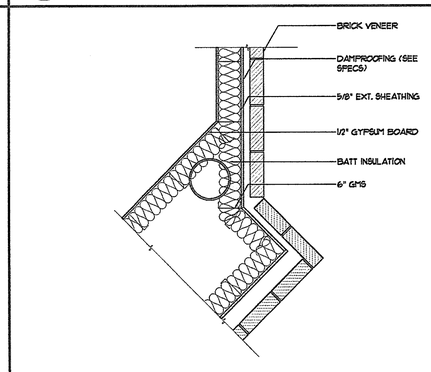
C1 ADMIN VESTIBULE
SCALE: 1" = 1'-0" A-DT-046



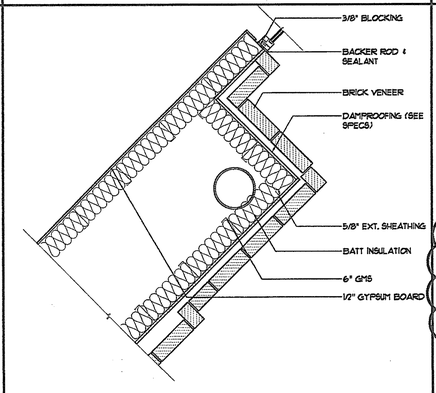
B5 SUITE SEPARATION WALL
SCALE: 1" = 1'-0" A-DT-045



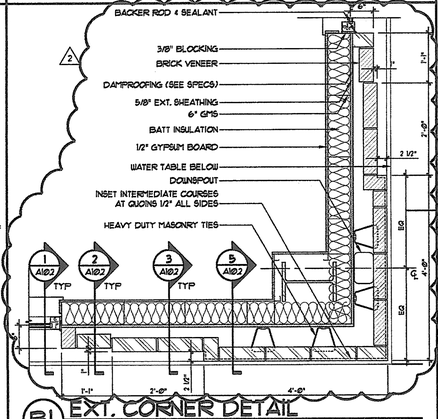
B4 SUITE SEPARATION WALL (TYP)
SCALE: 1" = 1'-0" A-DT-044



B3 WING WALL DETAIL
SCALE: 3/4" = 1'-0" A-DT-031



B2 WING WALL DETAIL
SCALE: 3/4" = 1'-0" A-DT-024



B1 EXT. CORNER DETAIL
SCALE: 3/4" = 1'-0" A-DT-024

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	RFI # 39: DOOR ALCOVE	BC	DB	8/15/08
2	RFI # 42: BRICK DIMENSIONS	CJ	DB	8/22/08

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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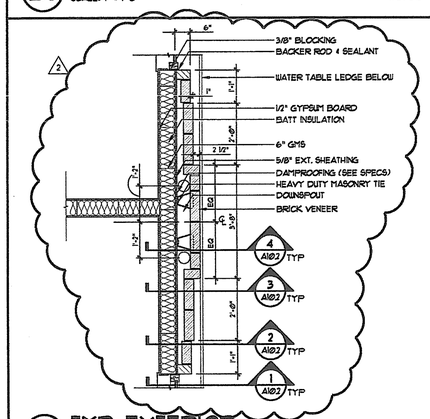
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

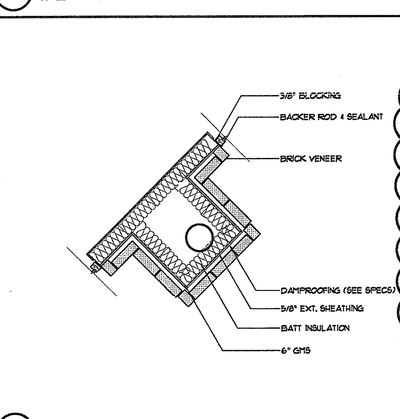
PANAMA CITY, FLORIDA

SHEET TITLE:
PLAN DETAILS

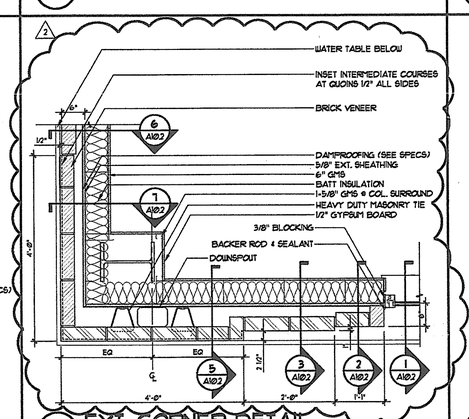
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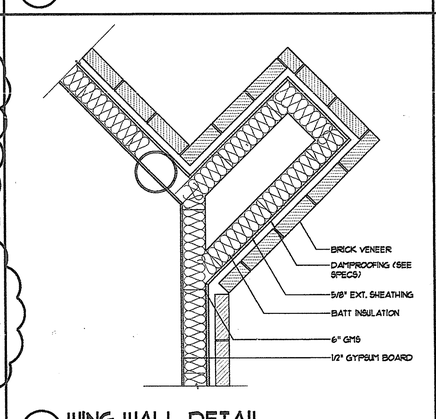
A5 TYP. EXTERIOR
SCALE: 1/2" = 1'-0" A-DT-015



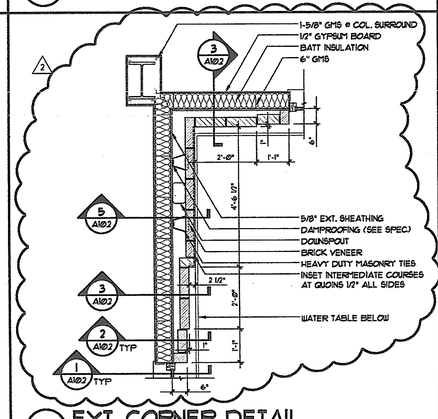
A4 ----------
SCALE: 1/2" = 1'-0" A-DT-011



A3 EXT. CORNER DETAIL
SCALE: 3/4" = 1'-0" A-DT-016



A2 WING WALL DETAIL
SCALE: 3/4" = 1'-0" A-DT-015



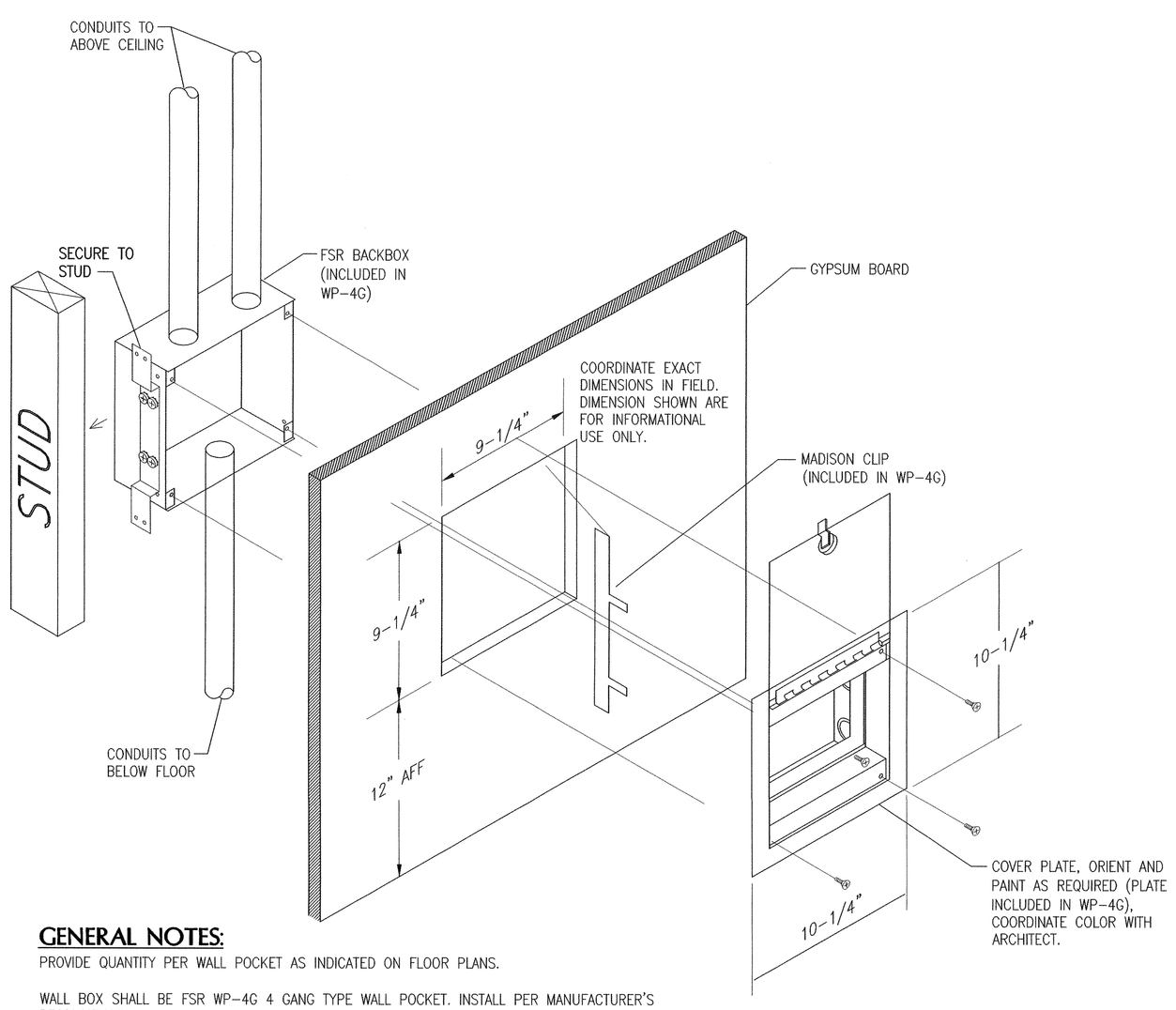
A1 EXT. CORNER DETAIL
SCALE: 1/2" = 1'-0" A-DT-014

AUDIO-VISUAL SYSTEMS LEGEND

SYMBOL	DESCRIPTION	BACKBOX SIZE	MUDRING/ FACEPLATE	PROVIDE (QTY/x") CONDUIT	OTHER	NOTES
AV FB	COMBINATION POWER/AUDIO-VISUAL FLOOR BOX FITTING.			(1) 1-1/4"		ROUTE CONDUIT IN SLAB TO NEAREST WALL, THEN OVER TO CONTROL CABINET.
AV PT	COMBINATION POWER/AUDIO-VISUAL POKETHRU FITTING.			(1) 1-1/4"		ROUTE CONDUIT IN CEILING OF FLOOR BELOW, THEN OVER TO CONTROL CABINET.
S	SPEAKER MOUNTED FLUSH IN CEILING TILE, SEE SINGLE LINES FOR SPEAKER TYPES.			(1) 3/4"		HOMERUN CONDUIT TO CONTROL CABINET. LOP UP TO 4 SPEAKERS TOGETHER.
RC	ROOM CONTROL KEYPAD	2-GANG	1-GANG	(1) 1"	PROVIDE BACKBOX FOR CONTROL SYSTEM DOCKING STATION	HOMERUN CONDUIT TO CONTROL CABINET.
PR	CEILING MOUNTED PROJECTOR, SEE A/V DETAILS AND DIAGRAMS.			(1) 1-1/4"		HOMERUN CONDUIT TO CONTROL CABINET.
WP	A/V CABLE WALL PCOKET				4-GANG FLUSH WALL POCKET.	FSR WB-4G WALL POCKET, SEE DETAILS.

AUDIO/VIDEO CABLE SCHEDULE

SYMBOL:	DESCRIPTION:
CV	COMPOSITE VIDEO CABLE - RG-6 COAX WITH RCA OR BNC CONNECTORS (AS REQUIRED), LENGTH AS REQUIRED.
LLA OR A	LINE-LEVEL AUDIO CABLE - 2 PAIR/18 A.W.G. SHIELDED AUDIO CABLE, LENGTH AS REQUIRED.
RGBHV	RGBHV CABLE - 5 CABLE COAXIAL BUNDLE.
VGA (/A)	VGA VIDEO CABLE - FACTORY MADE VGA CABLE WITH 15 PIN HD CONNECTORS EACH END, LENGTH AS REQUIRED. ("A" DENOTES ADDITIONAL AUDIO SIGNAL CONDUCTORS REQUIRED).
LBC	LAPTOP BREAKOUT CABLE - 6' VGA CABLE WITH AUDIO, GENDER AS REQUIRED, 15 PIN HD CONNECTORS EACH END.
SPKR	SPEAKER CABLE - 2 COND./16 A.W.G. SPEAKER CABLE, LENGTH AS REQUIRED.
MIC	MICROPHONE CABLING - 2 PAIR/22 A.W.G. CABLE, WEST PENN WIRE 291



GENERAL NOTES:

PROVIDE QUANTITY PER WALL POCKET AS INDICATED ON FLOOR PLANS.

WALL BOX SHALL BE FSR WP-4G 4 GANG TYPE WALL POCKET. INSTALL PER MANUFACTURER'S RECOMMENDTAION FOR A FLUSH INSTALLATION IN WALL.

FOUR GANG WALL POCKET DETAIL

NOT TO SCALE

NOTE

THE DIAGRAMS AND DETAILS SHOWN WITHIN THESE DRAWINGS ARE INTENDED TO SHOW TYPICAL CABLING AND EQUIPMENT REQUIRED TO MEET THE SPECIFICATIONS FOR EACH ROOM. THIS DIAGRAM SHALL NOT BE CONSTRUED AS BEING COMPLETE. ADDITIONAL EQUIPMENT AND/OR CABLING MAY BE REQUIRED FOR THE AUDIO-VISUAL SYSTEMS TO PERFORM AS SPECIFIED, INTENDED, AND REQUIRED. THE A/V CONTRACTOR SHALL FULLY UNDERSTAND THE INTEND OF THE DRAWINGS PRIOR TO SUBMITTING SHOP DRAWINGS, BEGINNING CONTROL SYSTEM PROGRAMMING, AND BEGINNING INSTALLATION. THE A/V CONTRACTOR SHALL PROVIDE A "TURN-KEY" INSTALLATION AND BE RESPONSIBLE FOR ANY ADDITIONAL CABLES OR EQUIPMENT REQUIRED TO CONSTRUCT A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

A/V SYSTEMS COORDINATION NOTE:

FIRESTOPPING:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE A/V CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CABLING IS COMPLETE.

SCREENS, MOUNTS, ETC: THE A/V CONTRACTOR SHALL FULLY COORDINATE THE EXACT PLACEMENT OF ALL PROJECTION SCREENS, CAMERA MOUNTS, PROJECTOR MOUNTS, LECTERN LOCATIONS, ETC, INCLUDING ANY APPURTENANCES REQUIRED FOR THE A/V SYSTEM WHETHER PROVIDED BY THE A/V CONTRACTOR OR NOT.

CONDUIT AND BACKBOX ROUGH-IN:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR ALL ROUGH-IN OF ALL CONDUIT, BACKBOXES, FLOORBOXES, ETC AS REQUIRED TO PROVIDED A COMPLETE ROUGH-IN FOR THE A/V SYSTEMS. THE A/V CONTRACTOR SHALL PROVIDE ELECTRICAL CONTRACTOR WITH COMPLETE SHOP DRAWINGS DEPICTING ALL SAID REQUIREMENTS, INCLUDING EXACT LOCATIONS, HEIGHTS, AND SIZES. THIS SHALL ALSO INCLUDE ALL WALL PENETRATIONS AND CONDUIT SLEEVES REQUIRED FOR INSTALLATION WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL HEIGHT PARTITIONS. CONDUIT PATHWAYS SHALL INCLUDE ALL PULLBOXES, PULLTAPE, PULLSTRINGS, CONDUIT MARKINGS, ETC. ALL CONDUIT SHALL BE INSTALLED ACCORDING TO THE ABOVEGROUND AND UNDERGROUND CONDUIT NOTES AS SHOWN ON THE TELECOMMUNICATION DRAWINGS AND SPECIFICATIONS. PROVIDE END BUSHINGS ON ALL CONDUIT.

CABLE HANGERS:
THE A/V CONTRACTOR SHALL PROPERLY HANG ALL CABLING USING APPROVED HANGERS AT 4' ON CENTER MINIMUM.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL A/V SYSTEM, WHETHER TAKEN AS A BASE BID ALTERNATE OR NOT.

THIS LIST IS NOT COMPREHENSIVE. THE A/V CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS SHOWN ON THE DRAWINGS AND/OR REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

CONTROL SYSTEM NOTE

EFFORT HAS BEEN MADE TO SHOW THE BASIC REQUIRED COMPONENTS OF THE CONTROL SYSTEM. IN THE EVENT THAT ADDITIONAL CONTROLLERS OR CONTROL MODULES ARE REQUIRED TO SATISFY THE CONTROL REQUIREMENTS OF THE SPECIFICATIONS, THE A/V CONTRACTOR SHALL PROVIDE AND INSTALL AT NO ADDITIONAL EXPENSE TO THE OWNER IN ORDER TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

POWER SUPPLIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.

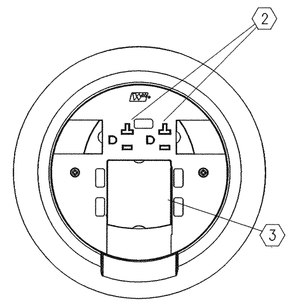
CONTRACTOR SHALL BE RESPONSIBLE TO FULLY UNDERSTAND THE OWNERS AND ENGINEERS INTENT FOR THE CONTROL SYSTEM PRIOR TO PROGRAMMING SYSTEMS

DISPLAY MOUNTING NOTE

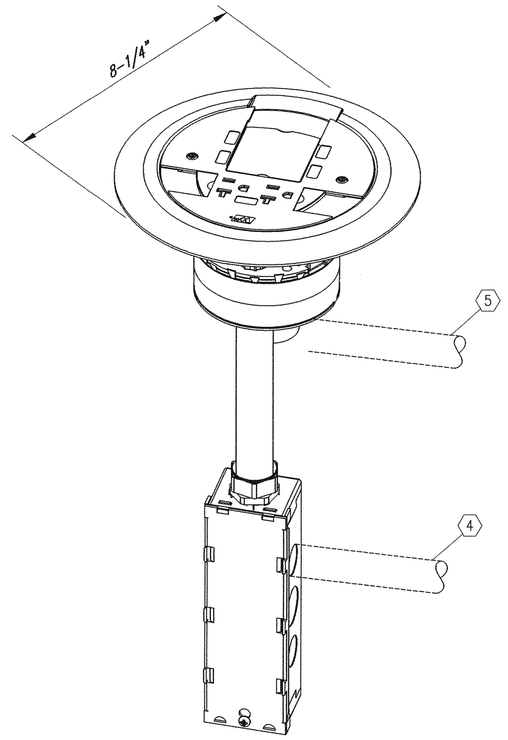
A/V CONTRACTOR SHALL PROVIDE ALL HARDWARE AND MOUNTING BRACKETS AS REQUIRED TO SECURE VIDEO DISPLAYS AND PROJECTORS IN APPROXIMATE LOCATIONS SHOWN. A/V CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO CORRECTLY LOCATE PROJECTION EQUIPMENT IN REGARDS TO HVAC DUCTWORK, LIGHT FIXTURES, PROJECTIONS SCREEN, AND THE LIKE. ALL EQUIPMENT SHALL BE SECURED WITH TAMPER RESISTANT HARDWARE AS WELL AND KENSINGTON-STYLE ANTI-THEFT SECURITY CABLES.

POKE THRU INSTALLATION NOTE !

COORDINATE POKE THRU WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, BUILDING STRUCTURE, AND ARCHITECT PRIOR TO INSTALLATION. FINAL LOCATION OF EACH POKE THRU SHALL BE BY THE ARCHITECT IN THE FIELD.



PLAN VIEW MODEL AV3



(1) ISOMETRIC VIEW (WALKER POKE THRU MODEL No. AV3)

POKE THRU KEY NOTES

(1) BY ELECTRICAL CONTRACTOR: POWER/DATA POKE THRU, WALKER INFLOOR SYSTEMS AV3. PROVIDE FITTINGS AS REQUIRED AND INSTALL POKE THRU'S IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. SET FLANGE TO BE FLUSH WITH FLOOR. FLANGE TO BE WALKER SYSTEMS AV3ATCAL, FINISH SHALL BE BRUSHED ALUMINUM.

(2) BY ELECTRICAL CONTRACTOR: STANDARD DUPLEX RECEPTACLE PLATE WITH (1) 120 VAC OUTLET RECEPTACLE PROVIDED WITH POKE THRU. SEE ELECTRICAL PLANS FOR CIRCUITING REQUIREMENTS.

(3) BY AUDIO-VIDEO CONTRACTOR: PROVIDE AND INSTALL EXTRON MAAP SERIES MINI ARCHITECTURAL ADAPTER PLATES TO FIT APPLICATION.

(4) BY ELECTRICAL CONTRACTOR: CONNECT POWER CONDUIT WITH FITTINGS, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

(5) BY ELECTRICAL CONTRACTOR: PROVIDE 1-1/4" CONDUIT FROM AV SIDE OF POKEOTHRU IN CEILING SPACE OF FLOOR BELOW AND EXTEND UP NEAREST WALL TO ABOVE CEILING IN THE ROOM IN WHICH THE POKE-THRU RESIDES.

TYPICAL MULTIMEDIA POKE THRU DETAIL

NOT TO SCALE

PT AV

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-30-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

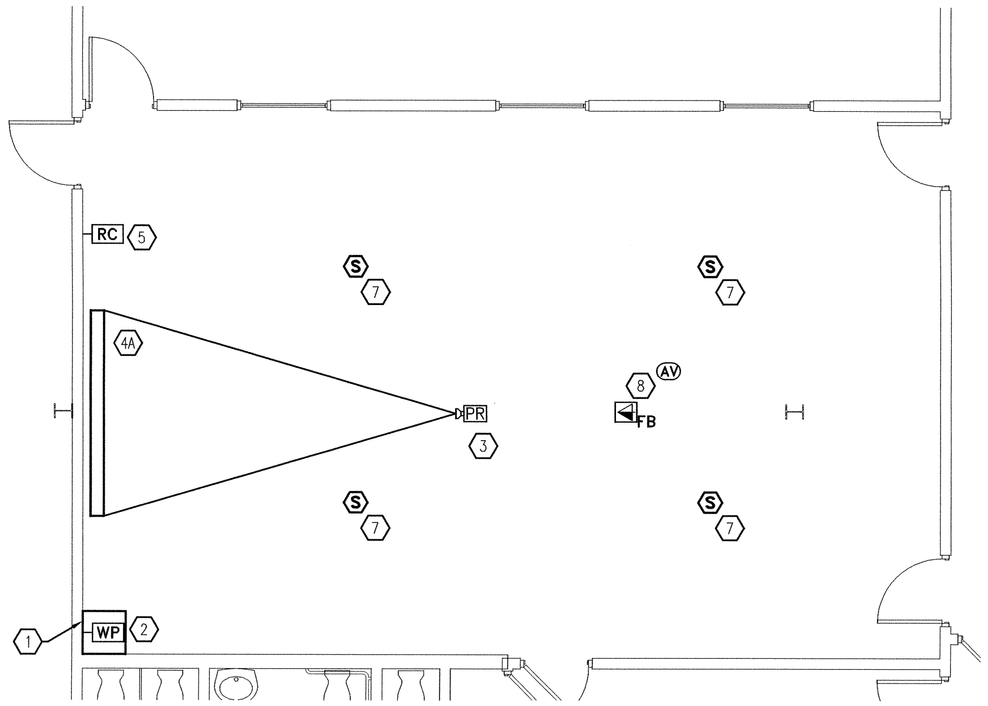
PANAMA CITY, FLORIDA

SHEET TITLE:
AUDIO-VISUAL LEGEND AND NOTES

SHEET NUMBER:
AV1.0

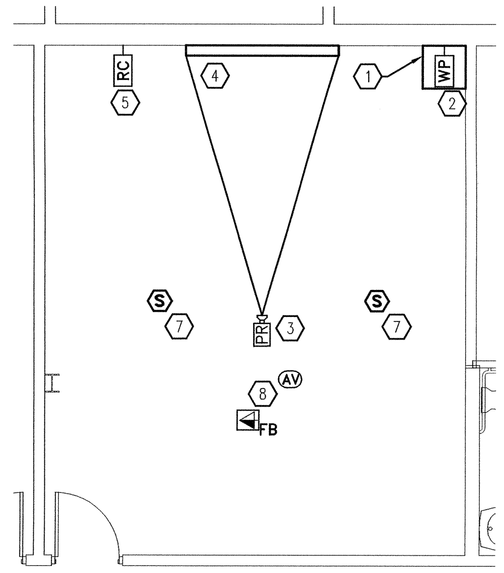
A/V SYSTEMS FLOOR PLAN KEY NOTES

1. AV CABINET, REFER TO ELEVATIONS FOR DETAILS.
2. 4-GANG WALLPOCKET, SEE DETIALS, WITH (2) 2" CONDUIT TO ABOVE CEILING AND (1) 1 ¼" C. TO POKE-THRU/FLOOR BOX. FSR WP-4G, NO EQUAL .PROVIDE WITH CUSTOM PLATE FOR ALL CABINET CONNECTIONS.
3. CEILING MOUNTED VIDEO PROJECTOR, PROVIDE FIXED, LOW PROFILE MOUNT TO MOUNT PROJCTOR AS CLOSE AS POSSIBLE TO CEILING. LOCATE AS REQUIRED TO FILL SCREEN, AVOID LIGHTING.
4. FLUSH MOUNTED MOTORIZED TAB-TENSIONED PROJECTION SCREEN 4:3 ASPECT RATIO, 84" DIAGIONAL SIZE, DRAPER ULTIMATE ACCESS/SERIES V WITH M2500 FABRIC OR EQUAL. PROVIDE WITH LOW VOLTAGE CONTROL OPTION.
4A. FLUSH MOUNTED MOTORIZED TAB-TENSIONED PROJECTION SCREEN 4:3 ASPECT RATIO, 100" DIAGIONAL SIZE, DRAPER ULTIMATE ACCESS/SERIES V WITH M2500 FABRIC OR EQUAL. PROVIDE WITH LOW VOLTAGE CONTROL OPTION.
5. AV CONTROL PLATE WITH POWER, VOLUME, AND SOURCE SELECTION CONTROLS, MOUNT @48" A.F.F.
7. CEILING MOUNTED SPEAKER, JBL PRO 24CT MICRO PLUS SERIES, PROVIDE WITH PLENUM RATED BACKCAN, PROPERLY SECURED TO CEILING GRID.
8. PROVIDE CUSTOM PLATE IN STANDARD FLOORBOX, SEE TELECOM DRAWINGS, FOR AND VIDEO CONNECTIONS. PROVIDE CABLES TO EXTEND UP TO CABLE NOOK ON TABLE TOP.
8A. PROVIDE POKE-THRU DEDICATED FOR AUDIO-VISUAL CABLING. PROVIDE WITH FITTING IN FLOOR WITH LAPTOP (VGA W/ AUDIO) INPUT PLATE. PROVIDE LAPTOP CABLE TO CABLE NOOK ON TOP OF CONFERENCE TABLE.



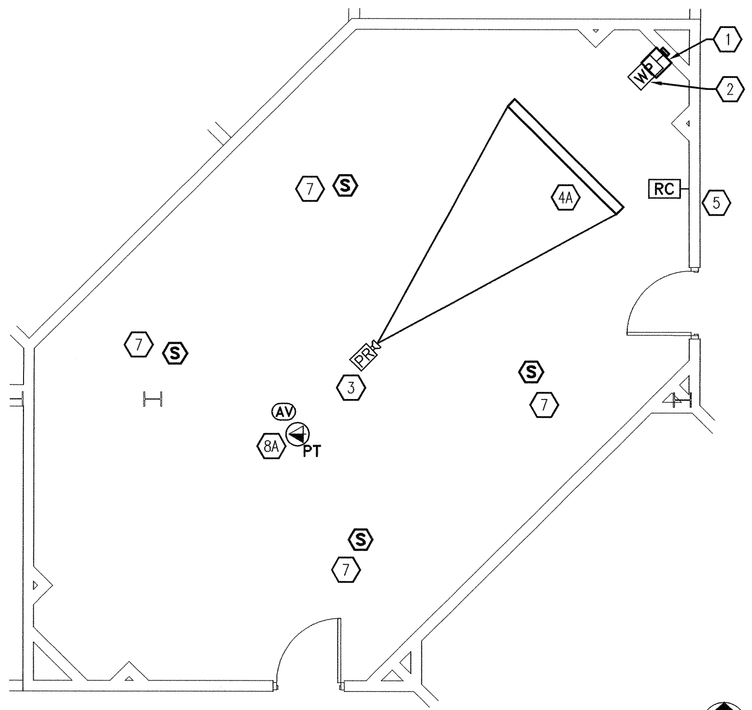
NORTH

A/V SYSTEMS ENLARGED FLOOR PLAN
SUPERVISOR OF ELECTIONS - CONFERENCE ROOM 1096
SCALE: 1/4"=1'-0"



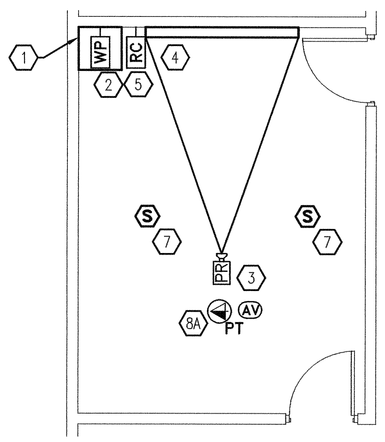
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A/V SYSTEMS ENLARGED FLOOR PLAN
PROPERTY APPRAISER - CONFERENCE ROOM 1013
SCALE: 1/4"=1'-0"



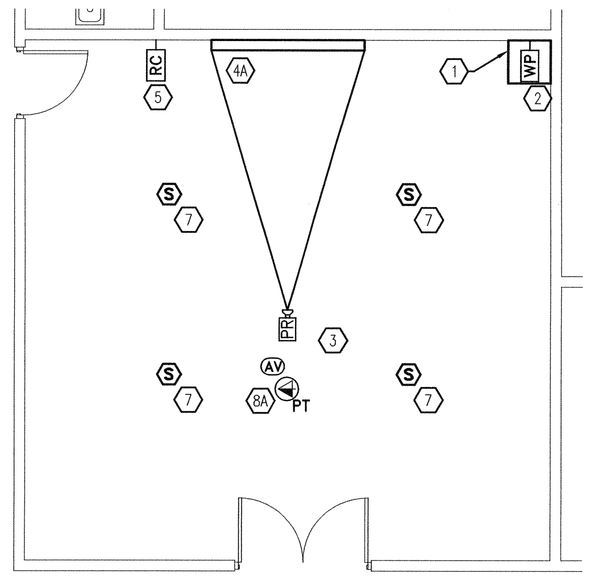
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A/V SYSTEMS ENLARGED FLOOR PLAN
ADMINISTRATION - CONFERENCE ROOM 2090
SCALE: 1/4"=1'-0"



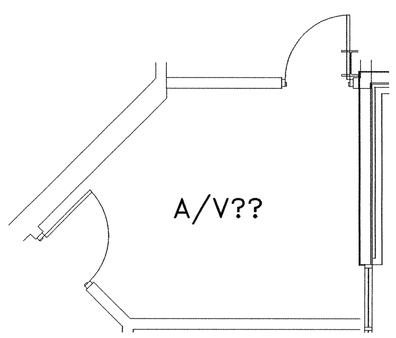
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A/V SYSTEMS ENLARGED FLOOR PLAN
PLANNING AND ZONING - CONFERENCE ROOM 2116
SCALE: 1/4"=1'-0"



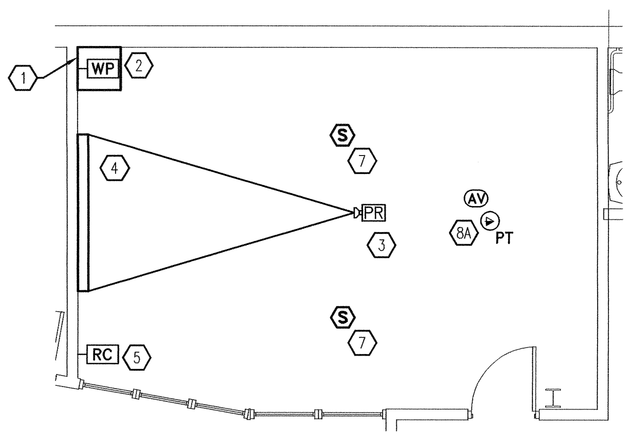
NORTH

A/V SYSTEMS ENLARGED FLOOR PLAN
P.W.D. / ENGINEERING - CONFERENCE ROOM 2166
SCALE: 1/4"=1'-0"



NORTH

A/V SYSTEMS ENLARGED FLOOR PLAN
XXX - CONFERENCE ROOM 2026
SCALE: 1/4"=1'-0"



NORTH

A/V SYSTEMS ENLARGED FLOOR PLAN
TRAFFIC / ENGINEERING - CONFERENCE ROOM 3009
SCALE: 1/4"=1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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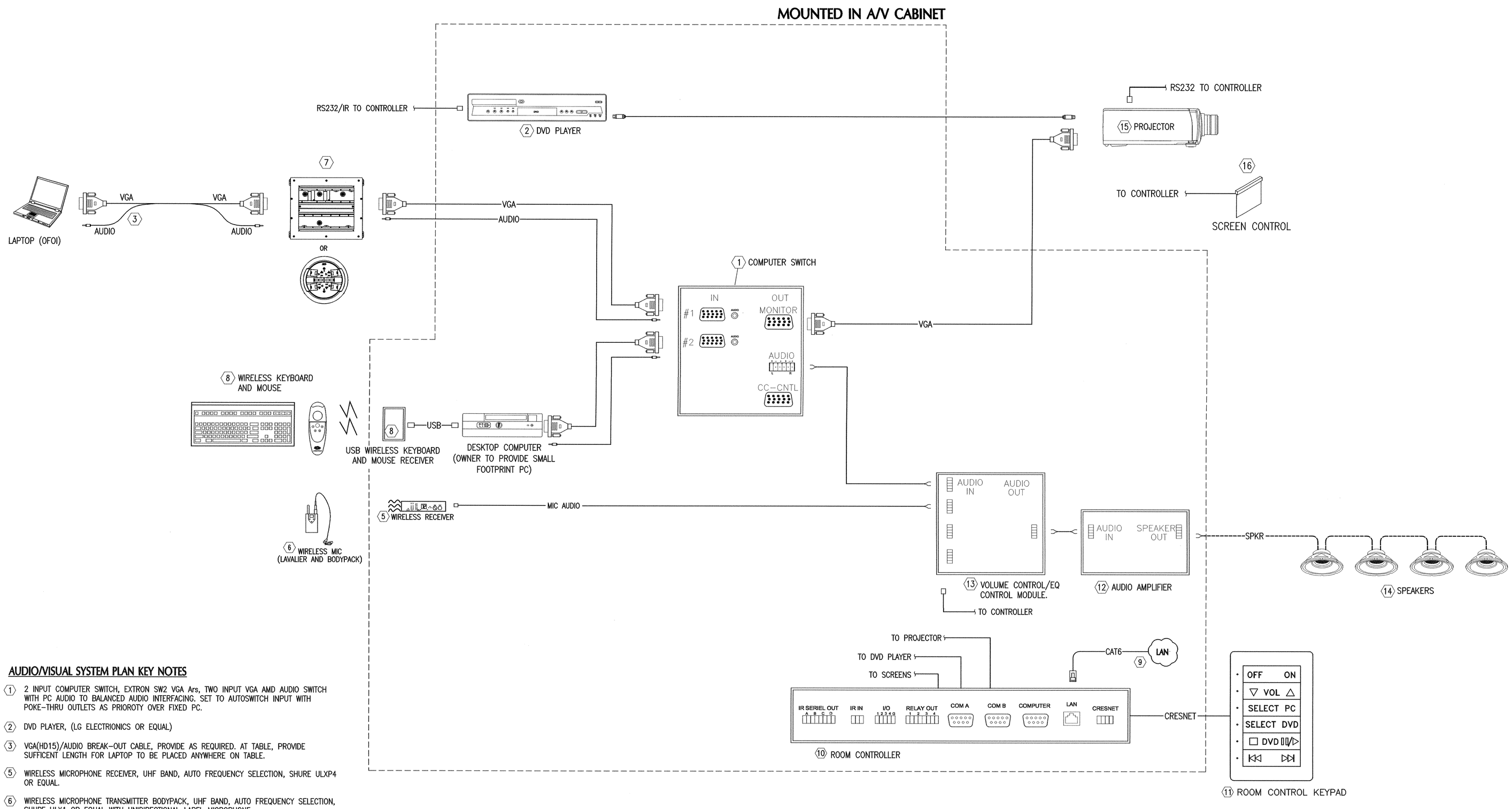
CONSULTANTS:

PROJECT:
BAY COUNTY
ADMINISTRATION
BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
AUDIO-VISUAL ENLARGED
ROOM FLOOR PLANS

SHEET NUMBER:
AV2.0



AUDIO/VISUAL SYSTEM PLAN KEY NOTES

1. 2 INPUT COMPUTER SWITCH, EXTRON SW2 VGA Ars, TWO INPUT VGA AMD AUDIO SWITCH WITH PC AUDIO TO BALANCED AUDIO INTERFACING. SET TO AUTOSWITCH INPUT WITH POKE-THRU OUTLETS AS PRIOROTY OVER FIXED PC.
2. DVD PLAYER, (LG ELECTRIONICS OR EQUAL)
3. VGA(HD15)/AUDIO BREAK-OUT CABLE, PROVIDE AS REQUIRED. AT TABLE, PROVIDE SUFFICENT LENGTH FOR LAPTOP TO BE PLACED ANYWHERE ON TABLE.
5. WIRELESS MICROPHONE RECEIVER, UHF BAND, AUTO FREQUENCY SELECTION, SHURE ULXP4 OR EQUAL.
6. WIRELESS MICROPHONE TRANSMITTER BODYPACK, UHF BAND, AUTO FREQUENCY SELECTION, SHURE ULX1 OR EQUAL WITH UNIDIRECTIONAL LAPEL MICROPHONE.
7. COMBINATION AV/POWER POKE-THRU OR FLOORBOX, PROVIDE WITH EXTRON VGA AND AUDIO INPUT PLATES. WIREMOLD OR EQUAL.
8. RF WIRELESS PC KEYBOARD AND REMOTE WITH NO LINE OF SIGHT LIMITATIONS, INTERLINK VERSAPOINT RF WIRELESS KEYBOARD AND REMOTEPOINT RF CORDLESS MOUSE. PROVIDE WITH USB RECEIVER AS REQUIRED.
9. CONNECT TO LOCAL AREA NETWORK VIA DATA PORT, DATA CABLING AND OUTLET PROVIDED AND INSTALLED BY STRUCTURED CABLING CONTRACTOR.
10. ROOM MEDIA CONTROLLER/ CONTROL SYSTEM. CRESTRON MC2E OR EQUAL.
11. ROOM CONTROL KEYPAD, PROGRAM TO ACHIEVE CONTROL AS SHOWN AND SPECIFIED. CRESTRON CAMEO SERIES OR EQUAL.
12. AUDIO AMPLIFIER. 100 WATT, 70V, RACK MOUNT.
13. 4 CHANNEL VOLUME CONTROL/EQ CONTROL MODULE. CRESTRON C2N-VEQ4 OR EQUAL.
14. FLUSH MOUNTED CEILING SPEAKERS WITH BACKBOX, JBL 26CT OR EQUAL. COLOR WHITE.
15. PROJECTOR
16. MOTORIZED PROJECTION SCREEN, SEE FLOORPLAN FOR REQUIREMENTS, PROVIDE WITH LOW VOLTAGE CONTROL OPTION AND CONNECT TO CONTROL SYSTEM.

CONFERENCE ROOM AUDIO-VISUAL SYSTEM RISER DIAGRAM

NOT TO SCALE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	HRC	HRC	11-16-07
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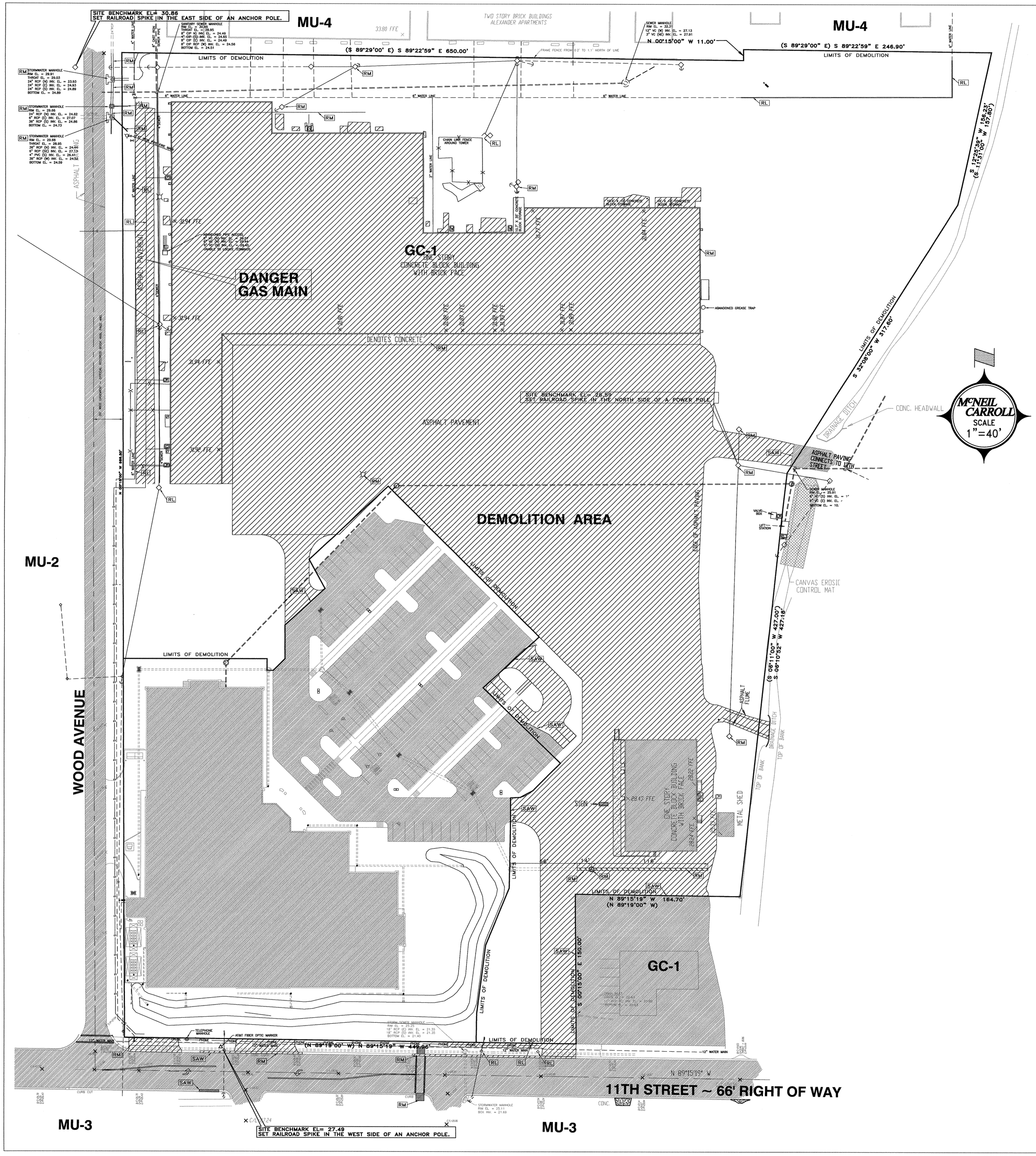
JRA Architects, Inc.
2606 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
AUDIO-VISUAL SYSTEM SINGLE LINE DIAGRAM

SHEET NUMBER:
AV3.0



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE DEMOLITION DRAWING NOTES:

1. ONLY EXISTING FEATURES ARE SHOWN IN THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ECT...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
5. ALTHOUGH EVERY ATTEMPT TO LOCATED UNDERGROUND UTILITIES HAS BEEN MADE, THERE IS THE POSSIBILITY OF UNDERGROUND GAS, ELECTRICAL, WATER SEWER, ETC.... THAT HAS NOT BEEN LOCATED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
6. THE EXISTING POWER SERVICE POLES AND GAS MAIN SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY. SEE SITE UTILITY PLAN FOR PROPOSED RELOCATION OF REMOVED UTILITIES.
7. ALL UTILITIES REMOVED FROM SERVICE SHALL BE CAPPED BY THE APPROPRIATE UTILITY COMPANY. SEE SITE UTILITY PLAN FOR PROPOSED RELOCATION OF REMOVED UTILITIES.
8. CONTRACTOR SHALL NOTIFY THE CITY OF PANAMA CITY UNDERGROUND UTILITIES SUPERVISOR AND METER SECTION SUPERVISOR 72 HOURS PRIOR TO TERMINATION OF SERVICE TO EXISTING WATER MAIN AND METER SERVICES. CONTRACTOR TO REMOVE ALL METERS, BOXES, LIDS AND REMOTE READING ELECTRICAL COMPONENTS UNDER THE DIRECT SUPERVISION OF THE METER SECTION PERSONNEL. ALL CITY-OWNED METER EQUIPMENT REMOVED TO BE SAFELY STORED AND PROMPTLY RETURNED TO THE CITY.

DEMOLITION DATA SCHEDULE
TOTAL AREA OF CONSTRUCTION SITE = 11.12 ACRES = 484,565 SQUARE FEET
TOTAL IMPERVIOUS AREA = 6.35 ACRES = 276,879 SQUARE FEET
TOTAL IMPERVIOUS AREA TO BE REMOVED = 6.35 ACRES = 276,879 SQUARE FEET

SYMBOL LEGEND

- CAP (PLUG AND CAP EXISTING SERVICE)
- N1 (SEE NOTE ie., #1 – SEE NOTES ON THIS SHEET)
- RL (RELOCATE EXISTING UTILITY – BY APPROPRIATE UTILITY COMPANY)
- RJ (REMOVE EXISTING MATERIALS TO NEAREST JOINT)
- RM (REMOVE EXISTING MATERIALS OR UTILITY – BY APPROPRIATE UTILITY COMPANY)
- RP (PROPOSED RELOCATED POWER POLE LOCATION)
- SAW (SAW CUT AND REMOVE EXISTING MATERIALS)

McNEIL CARROLL
SCALE
1"=40'

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
FL LIC # 46903	FL LIC # 57988	FL LIC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5790
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

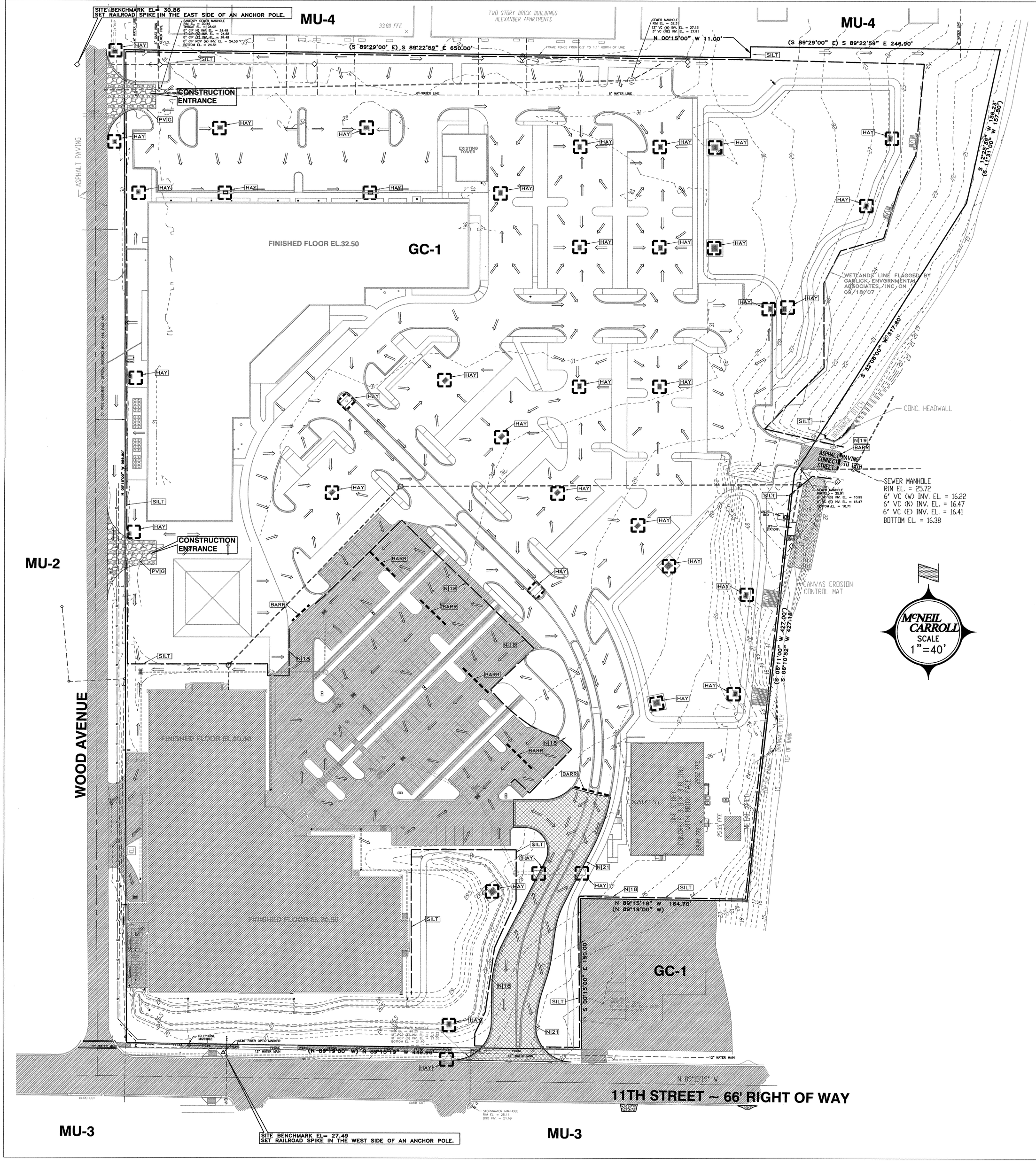
SHEET TITLE:

SITE DEMOLITION PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C1



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE EROSION CONTROL DRAWING NOTES:

1. EROSION CONTROL SHALL BE MAINTAINED FOR THE DURATION FOR THE PROJECT.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. SEE SECTIONS IN CONSTRUCTION DETAILS.
5. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
6. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
7. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
8. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
9. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).
10. CONSTRUCTION DRIVES SHALL SLOPE AWAY FROM THE ROADWAY AT A MINIMUM SLOPE OF 2.00% TO DISTANCE OF NOT LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT. THE MAXIMUM WIDTH OF THE DRIVE SHALL BE 30 FEET WITH A COARSE GRAVEL SURFACE 4 INCHES THICK. SIGNS SHALL BE PLACED (IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS) TO WARN APPROACHING DRIVERS AND PEDESTRIANS.
11. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE", WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR OR PRIVATE PROPERTY.
12. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN 1 ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 48 HOUR NOTIFICATION TO THE APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL REQUIRED ELEMENTS OF THE SWPPP MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.
13. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM EVENT (RAINFALL) THAT IS A 1/2 INCH OR GREATER:
    - A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
    - B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM WATER SYSTEMS.
    - C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
    - D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
    - E. STRUCTURAL CONTROLS.
    - F. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
14. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
15. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. AS NEEDED.
16. RECORDS OF THE INSPECTIONS AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
17. ALL STORMWATER MANAGEMENT FACILITIES AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, DEMOLITION OR OTHER DISTURBANCE TO THE SUBJECT SITE.
18. AMBER FLASHING LIGHTS SHALL BE PROVIDED AT THE PERIMETER OF THE LIMITS OF CONSTRUCTION SPACED AT 100 FT. INTERVALS DURING CONSTRUCTION.
19. AMBER FLASHING LIGHTS AND SIGNAGE SHALL BE ERECTED PROHIBITING THRU TRAFFIC USE OF THE ENTRANCE/EXIT AND NO CONSTRUCTION VEHICLES AT ANY TIME SHALL USE THE CORRIDOR TO OR FROM THE SITE. A SIGN SHALL BE ON EACH SIDE FACING ONCOMING TRAFFIC.
20. BARRIERS SHALL ONLY BE MAINTAINED DURING CONSTRUCTION OF THESE AREAS. ACCESS TO THE COUNTY BUILDING SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION TIMES TWO (2) WEEKS PRIOR TO THE CONSTRUCTION PERIOD WITH COUNTY OFFICIALS. THESE AREAS SHALL BE SAFE FOR VEHICULAR USE AND PATCHED IMMEDIATELY UPON APPROVAL BY THE ENGINEER.
21. THE 11th STREET ENTRANCE SHALL BE COMPLETED TO PROVIDE PUBLIC ACCESS TO THE BAY COUNTY LIBRARY UPON ITS OPENING. AT NO TIME SHALL CONSTRUCTION VEHICLES USE THIS ACCESS AS AN ENTRANCE OR EXIT. FLASHING BARRICADES, BARRIERS AND OTHER SAFETY DEVICES SHALL BE MAINTAINED AT ALL TIMES FOR PUBLIC SAFETY.

SYMBOL LEGEND

- BARR (TRAFFIC BARRICADE – SEE CONSTRUCTION DETAILS)
- HAY (HAY BALE BARRIER – SEE CONSTRUCTION DETAILS)
- N16 (i.e. SEE NOTE 6)
- SILT (SILT FENCE – SEE CONSTRUCTION DETAILS)
- PVG (24' WIDE #57 GRAVEL CONSTRUCTION ENTRANCE 6" THICK)
- ⟹ (STORMWATER SURFACE FLOW)

CONTRACTORS / SUBCONTRACTORS CERTIFICATION STATEMENT

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THE STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

NAME	TITLE	COMPANY NAME, ADDRESS AND PHONE NUMBER	DATE

CONTRACTORS / SUBCONTRACTORS CERTIFICATION STATEMENT / OPERATOR/RESPONSIBLE AUTHORITY

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME	TITLE	COMPANY NAME, ADDRESS AND PHONE NUMBER	DATE
PRINT:			
SIGN:			

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
FL LIC # 46303	FL LIC # 57988	FL LIC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
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75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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2605 THOMAS DRIVE SUITE 105
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CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7388
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

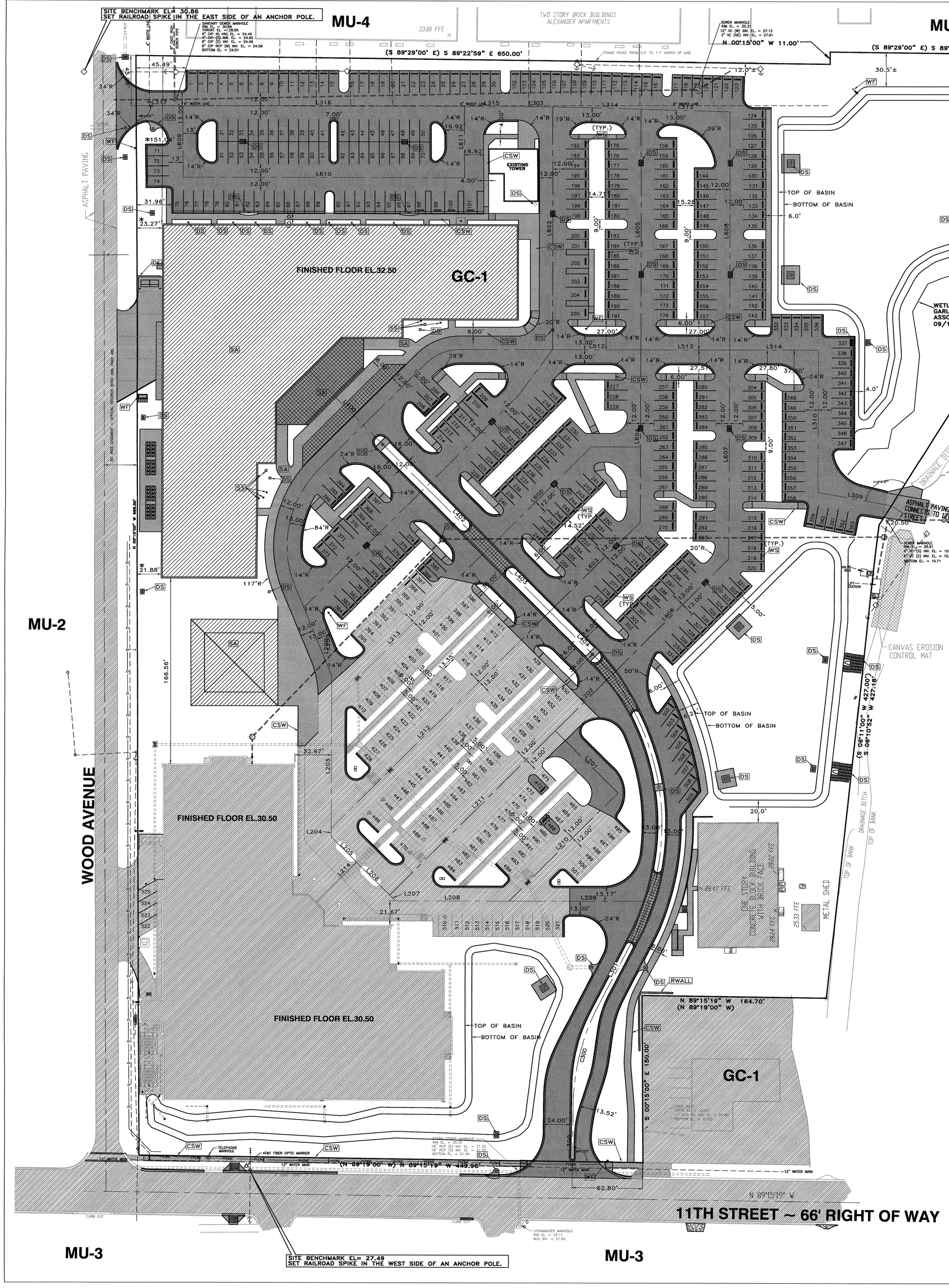
SHEET TITLE:

SITE EROSION CONTROL PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE.
NOT FOR CONSTRUCTION

C2



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE LAYOUT DRAWING NOTES:

1. ONLY EXISTING UNDERGROUND AND ABOVE GROUND FEATURES ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. ALL RADII AT FACE OF CURB ARE 4' UNLESS SHOWN.
4. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
5. ALL DIMENSIONS AT CURB ARE FROM FACE OF CURB.
6. BOLLARDS SHALL BE PLACE ALONG THE SIDEWALK WITH A 6" OFFSET FROM THE ABUTTING DRIVING LANE AS SHOWN. A 6 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN ALL BOLLARDS. SEE ARCHITECTS PLANS FOR SIZE AND TYPE.
7. THE 11th STREET ENTRANCE SHALL BE COMPLETED TO PROVIDE PUBLIC ASSESS TO THE BAY COUNTY LIBRARY UPON ITS OPENING. AT NO TIME SHALL CONSTRUCTION VEHICLES USE THIS ACCESS AS AN ENTRANCE OR EXIT. FLASHING BARRICADES, BARRIERS AND OTHER SAFETY DEVICES SHALL BE MAINTAINED AT ALL TIMES FOR PUBLIC SAFETY.

SYMBOL LEGEND

- ✱ (DENOTES CRITICAL DIMENSION TO OUTSIDE FACE OF BUILDING)
- CSW (CONCRETE SIDEWALK – SEE CONSTRUCTION DETAILS)
- DE (DUMPSTER ENCLOSURE – SEE ARCH. PLANS)
- DS (DRAINAGE STRUCTURE – SEE GRADING & DRAINAGE PLAN)
- N1 (SEE NOTE ie., #1 – SEE NOTES ON THIS SHEET)
- RWALL (RETAINING WALL – SEE ARCH. PLANS)
- SA (SEE ARCH. PLANS)
- SS (SEWER STRUCTURE – SEE UTILITY PLANS)
- WF (WATER FIXTURE – SEE UTILITY PLANS)
- WS (WHEELSTOP – SEE CONSTRUCTION DETAILS)

McNEIL CARROLL
SCALE
1"=40'

PARKING SPACE SCHEDULE					
NO.	ANGLE	WIDTH	DEPTH	NOTES:	
1–98	90°	9	20		
99	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
100	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
101	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
102–201	90°	9	20		
202	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
203	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
204	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
205	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
206–209	90°	9	20		
210	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
211–370	90°	9	20		
371	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
372–447	90°	9	20		
448	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
449	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
450–468	90°	9	20		
469	90°	12	20	W/ DRIVERS SIDE 5'WIDE AISLE	
470	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
471–501	90°	9	20		
502–509	90°	9	20		
510	90°	12	20	W/ PASSENGERS SIDE 5'WIDE AISLE	
511–521	90°	9	20		
522–525	90°	9	20	REAR OF LIBRARY	

ALL PARKING STALLS SHALL BE 4" WHITE STRIPING ON ASPHALT AND 4"YELLOW ON CONCRETE. HANDICAP SIGNAGE AND STRIPING SHALL BE TO STATE AND CITY CODE. LANE SEPARATION LINES SHALL BE 6" WIDE.

LINE TABLE		
LIBRARY SITE		
LINE	LENGTH	BEARING
L200	75.73	N00°00'00"E
L201	79.00	N45°00'00"W
L202	54.00	N45°00'00"E
L203	111.46	N00°00'00"W
L204	7.75	N00°00'00"W
L205	32.07	S45°00'00"E
L206	41.64	S45°00'00"E
L207	7.40	S45°00'00"E
L208	101.26	N90°00'00"W
L209	128.28	N90°00'00"E
L210	155.31	N45°00'00"E
L211	226.91	N45°00'00"E
L212	275.43	N45°00'00"E
L213	196.62	N45°00'00"E
L214	50.88	N45°00'00"E
ADMINISTRATION SITE		
ENTRANCE DRIVE		
L300	50.06	N00°44'41"E
L301	106.23	N27°18'41"E
L302	21.79	N22°59'27"E
L303	59.27	N16°00'58"E
L304	50.00	S23°34'14"W
L305	50.00	N15°46'00"E
L306	35.08	N26°29'47"E
L307	35.35	N45°00'00"E
L308	25.27	N00°00'00"E
L309	66.55	S79°52'05"E
L310	127.71	N00°00'00"E
L311	141.40	N00°00'00"E
L312	8.84	S88°26'43"E
L313	79.31	S88°26'43"E
L314	55.70	S88°26'43"E
L315	48.73	N90°00'00"W
L316	251.10	N90°00'00"W
L317	42.16	N90°00'00"W
BOULEVARD DRIVE TO BUILDING		
L400	96.04	S45°00'00"E
L401	43.96	S45°00'00"E
L402	86.11	S45°00'00"E
L403	78.81	S45°00'00"E
L404	79.19	S45°00'00"E
L405	114.55	S45°00'00"E
BOULEVARD DRIVE INFRONT OF BUILDING		
L500	6.58	N90°00'00"W
L501	35.30	N05°31'49"W
L502	15.00	N00°00'00"E
L503	7.97	N11°41'47"E
L504	74.41	N50°18'30"E
L505	13.82	N48°48'17"E
L506	6.00	S00°00'00"E
L507	5.00	N90°00'00"E
L508	10.33	N00°00'00"E
L509	3.03	N00°00'00"E
L510	10.99	N90°00'00"E
L511	79.11	N90°00'00"E
L512	79.28	N90°00'00"E
L513	78.88	N90°00'00"E
PARKING		
L600	80.80	S45°00'00"W
L601	122.17	N00°00'00"E
L602	217.77	N00°00'00"E
L603	113.86	S45°00'00"W
L604	154.53	N00°00'00"E
L605	215.76	N00°00'00"E
L606	146.79	S45°00'00"W
L607	187.24	N00°00'00"E
L608	213.61	N00°00'00"E
L609	64.00	N00°00'00"E
L610	251.10	N90°00'00"E
L611	64.00	N00°00'00"E

REQUIRED PARKING CALCULATION			
PROPOSED USE	PARKING REQUIREMENT	SQUARE FOOTAGE	SPACES REQUIRED
OFFICE	1 PER 300 SQ. FT	128,132 SQUARE FEET	427
PUBLIC LIBRARY	1 PER 500 SQ. FT	55,900 SQUARE FEET	112
		TOTAL PARKING REQUIRED =	539
		TOTAL PARKING PROVIDED =	525

TRIP GENERATION SCHEDULE			
DESCRIPTION/ ITE CODE	UNIT DESIGNATION	EXPECTED DAILY TRIPS	P.M. PEAK TRIPS
GENERAL OFFICE BUILDING/710	1,000 SF	1,322	214

CALCULATION DERIVED FROM ITE 7th. EDITION.

SITE DATA TABLE		
GOVERNING ENTITY – CITY OF PANAMA CITY		
ZONING – GC-1		
TOTAL AREA OF SITE: 664,085 SQUARE FEET – 15.24 ACRES		
TOTAL EXISTING IMPERVIOUS AREA: 481,812 SQUARE FEET – 11.06 ACRES		
TOTAL BUILDING AREA: 116,845 SQUARE FEET – 2.68 ACRES		
FLOOD ZONES ON PROPERTY "X"		
	ALLOWED/REQUIRED	PROPOSED
TOTAL IMPERVIOUS AREA	597,676 SQUARE FEET – 13.72 ACRES	395,846 SQUARE FEET – 9.09 ACRES
IMPERVIOUS SURFACE RATIO	0.90 MAX.	0.87
OPEN SPACE AREA	SQUARE FEET – ACRES	SQUARE FEET – ACRES
OPEN SPACE RATIO	0.10 MIN.	0.00
FRONT YARD SETBACK	25 FEET	49.6 FEET
SIDE YARD SETBACK	0 FEET	1.33 FEET
REAR YARD SETBACK	25 FEET	151 FEET

CURVE TABLE						
ENTRANCE DRIVE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C300	200.00	92.74	47.22	91.91	N14°01'41"E	26°34'00"
C301	162.00	127.23	67.10	123.99	N22°30'00"E	45°00'00"
C302	72.00	111.14	70.07	100.43	N44°13'22"W	88°26'44"
C303	1976.00	30.18	15.09	30.18	N89°33'44"W	00°52'31"
BOULEVARD DRIVE INFRONT OF BUILDING						
C500	86.00	17.56	8.81	17.53	N05°50'54"E	11°41'47"
C501	58.00	17.06	8.59	17.00	N20°07'20"E	16°51'5"
C502	278.96	80.10	40.33	79.83	N36°46'26"E	16°27'6"
C503	278.96	25.84	12.93	25.84	N47°39'15"E	5°18'30"
C504	78.00	56.08	29.31	54.88	N69°24'08"E	41°11'43"
C505	57.00	97.56	65.65	86.08	N49°02'04"E	98°4'9"
C506	58.00	53.72	28.96	51.82	N71°32'04"E	53°4'9"
C507	58.00	68.69	39.02	64.75	N11°04'17"E	67°51'26"
C508	67.26	124.07	88.76	107.21	N29°59'24"E	105°41'42"

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PHASE:		DRAWN	CHECKED	DATE
SCHEMATIC DESIGN		T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT		T.A. ERB	JMS	06-06-07
DD OWNER REVIEW		T.A. ERB	JMS	09-08-07
75% CONSTRUCTION DOCUMENTS		T.A. ERB	JMS	11-16-07

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2605 THOMAS DRIVE SUITE 105
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CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7266
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5790
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SITE LAYOUT PLAN

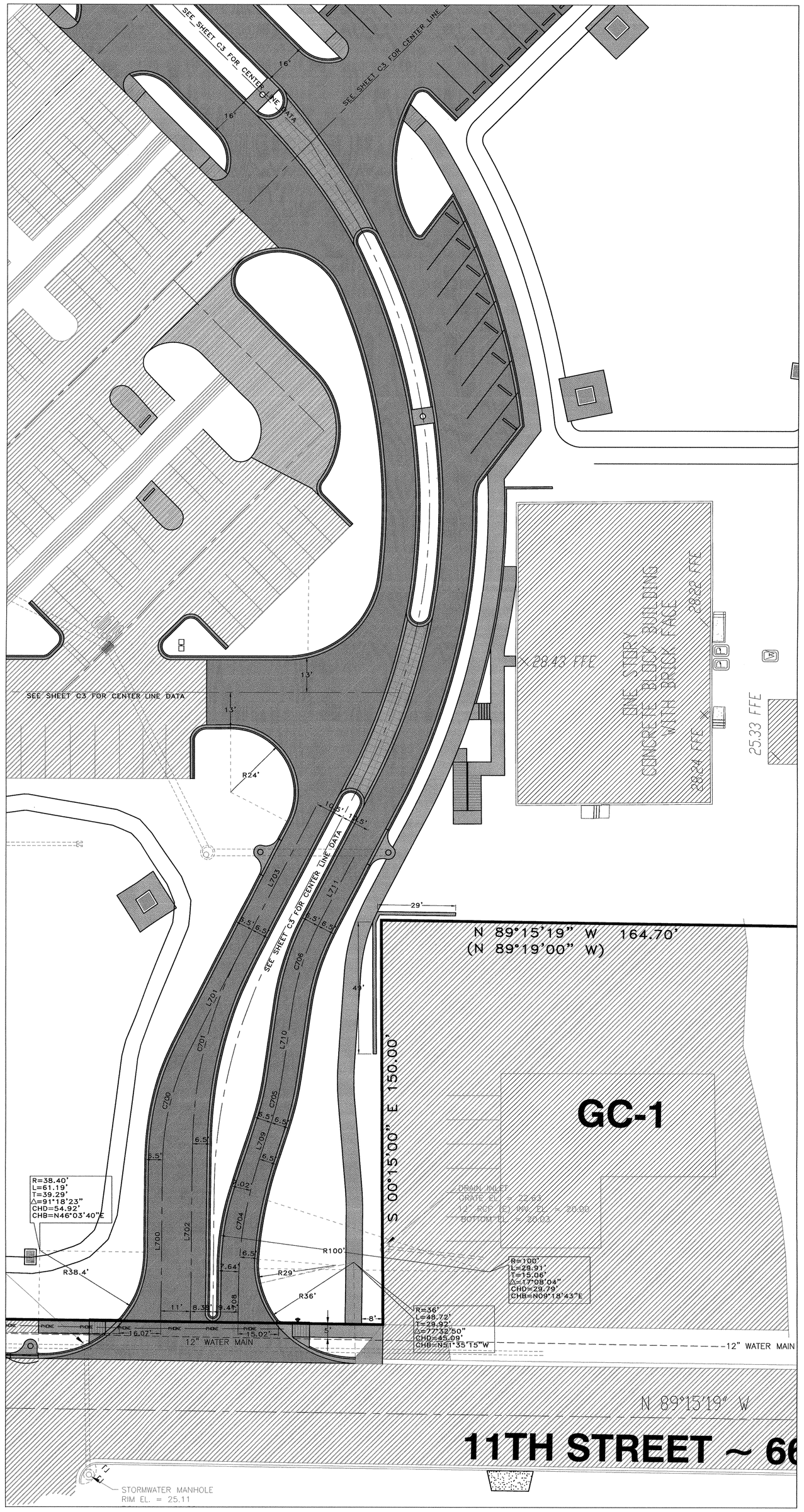
NO.	DATE	BY	REVISIONS

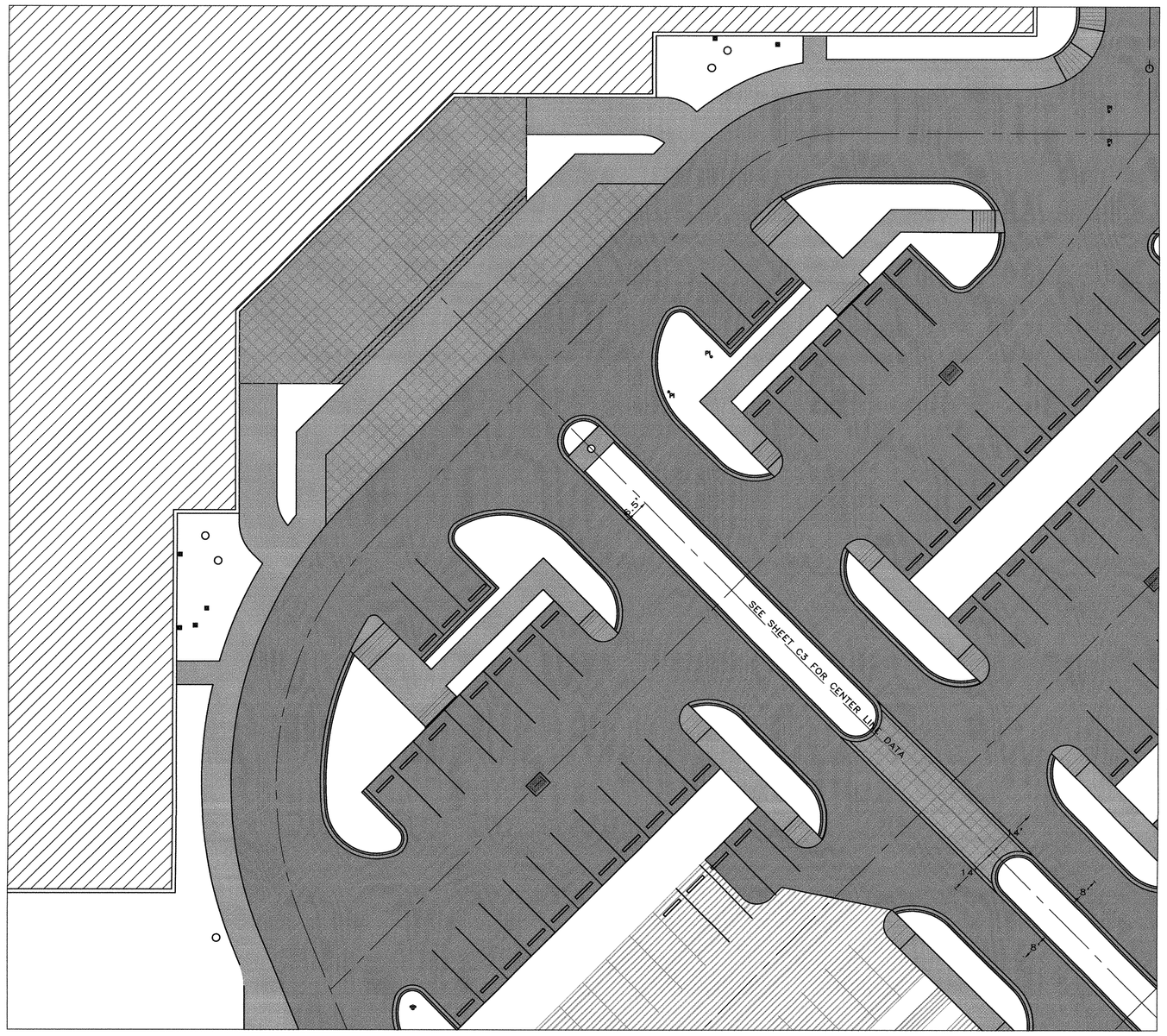
Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LIC # 46903
Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LIC # 57988
Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LIC # 61729

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C3





McNEIL CARROLL
SCALE
1"=20'

LINE TABLE		
LINE	LENGTH	BEARING
L700	59.69	N00°44'41"E
L701	39.23	N27°18'41"E
L702	67.05	N00°44'41"E
L703	61.16	N27°18'41"E
L704	47.24	N26°20'08"E
L705	12.64	N26°20'08"E
L706	17.51	N12°36'09"E
L707	44.35	N05°54'30"E
L708	13.98	S00°44'41"W
L709	14.56	N17°52'44"E
L710	27.60	N08°21'16"E
L711	28.13	N27°18'41"E
L712	68.05	N27°18'41"E
L713	15.00	N45°00'00"E
L714	70.00	N45°00'00"E
L715	28.09	N00°00'00"E
L716	24.57	N75°00'00"E
L717	8.05	S45°00'00"W
L718	29.25	N45°00'00"W
L719	216.70	S45°00'00"E
L720	216.70	S45°00'00"E
L721	20.87	N64°46'51"E
L722	11.21	S45°00'00"W
L723	11.21	N45°00'00"E
L724	11.21	S45°00'00"W

CURVE TABLE						
11TH. STREET ENTRANCE DRIVE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C700	94.50	43.82	22.31	43.43	N14°11'41"E	26°34'0"
C701	156.50	72.57	36.95	71.92	N14°11'41"E	26°34'0"
C702	104.50	17.90	8.97	17.88	N21°17'23"E	9°48'54"
C703	104.50	6.89	3.45	6.89	N14°29'33"E	3°46'47"
C704	156.50	46.80	23.58	46.63	N09°18'43"E	17°8'4"
C705	106.50	17.70	8.87	17.68	N13°07'00"E	9°31'29"
C706	93.50	30.94	15.61	30.79	N17°49'58"E	18°57'26"
C707	126.50	40.31	20.33	40.14	N18°10'57"E	18°15'28"
C708	55.50	59.16	32.74	56.40	N39°35'29"E	61°4'32"
C709	44.50	33.74	17.73	32.94	N88°09'01"E	43°26'29"
C710	44.50	77.51	52.84	68.07	N20°13'59"E	99°47'31"
C711	44.50	34.62	18.24	33.75	N51°56'53"W	44°34'13"
C712	44.50	28.31	14.65	27.83	S87°32'41"W	36°26'39"
C713	44.50	4.65	2.33	4.65	S66°19'47"W	5°59'8"
C714	44.50	14.24	7.18	14.18	S54°10'07"W	18°20'13"
C715	44.50	14.24	7.18	14.18	S35°49'53"W	18°20'13"
C716	44.50	49.72	27.82	47.17	S05°20'43"E	64°1'0"
C717	44.50	22.58	11.54	22.34	S51°53'30"E	29°4'33"
C718	55.50	72.32	42.33	67.31	N07°40'07"E	74°39'46"
ADMINISTRATION BUILDING ENTRANCE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C719	13.00	7.30	3.75	7.20	N16°04'57"E	32°9'55"
C720	293.00	65.63	32.96	65.50	N38°34'57"E	12°50'5"
C721	293.00	66.98	33.64	66.83	N51°32'56"E	13°5'52"
C722	13.00	3.84	1.93	3.82	N66°32'56"E	16°54'8"
C723	58.00	45.69	24.10	44.51	S22°26'05"W	45°7'49"
C724	58.00	82.81	50.24	75.95	S41°01'50"E	81°48'2"
C725	58.00	68.51	38.88	64.59	N56°41'38"W	67°40'24"
C726	58.00	45.02	23.71	43.89	S67°14'05"W	44°28'10"
C727	77.00	5.59	2.80	5.59	N89°29'26"E	4°9'39"
C728	77.00	58.36	30.66	56.98	S66°42'52"E	43°25'44"
C729	22.50	40.12	27.87	35.01	S27°08'46"E	102°10'5"
C730	77.00	52.15	27.12	51.16	S25°35'57"E	38°48'7"
C731	77.00	11.81	5.92	11.80	S01°48'15"E	8°47'17"
C732	18.00	33.45	24.09	28.84	S61°59'07"E	106°28'6"

SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE LAYOUT DRAWING NOTES:

1. ONLY EXISTING UNDERGROUND AND ABOVE GROUND FEATURES ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. ALL RADII AT FACE OF CURB ARE 4' UNLESS SHOWN.
4. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
5. ALL DIMENSIONS AT CURB ARE FROM FACE OF CURB.
6. BOLLARDS SHALL BE PLACE ALONG THE SIDEWALK WITH A 6" OFFSET FROM THE ABUTTING DRIVING LANE AS SHOWN. A 6 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN ALL BOLLARDS. SEE ARCHITECTS PLANS FOR SIZE AND TYPE.
7. THE 11th STREET ENTRANCE SHALL BE COMPLETED TO PROVIDE PUBLIC ASSESS TO THE BAY COUNTY LIBRARY UPON ITS OPENING. AT NO TIME SHALL CONSTRUCTION VEHICLES USE THIS ACCESS AS AN ENTRANCE OR EXIT. FLASHING BARRICADES, BARRIERS AND OTHER SAFETY DEVICES SHALL BE MAINTAINED AT ALL TIMES FOR PUBLIC SAFETY.

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LIC # 49305

Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LIC # 57908

Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LIC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-20-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5730
Fax: 850-763-5744
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

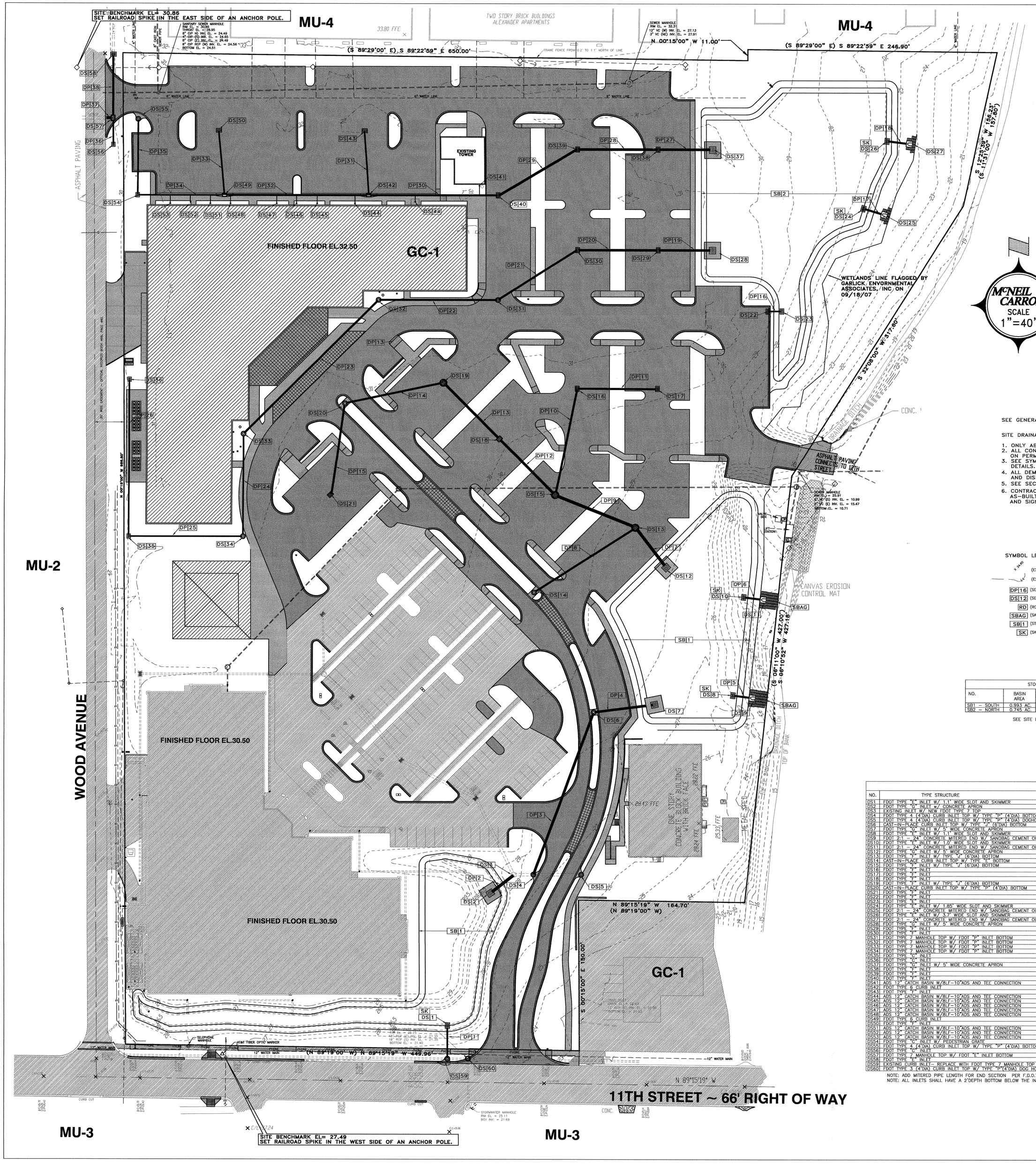
SHEET TITLE:

SITE LAYOUT PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C4



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE DRAINAGE DRAWING NOTES:

1. ONLY ABOVE GROUND FEATURES AND UNDERGROUND DRAINAGE STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
5. SEE SECTIONS IN CONSTRUCTION DETAILS.
6. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. *FIVE (5)* SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.

SYMBOL LEGEND

- X.XX.XX (EXISTING SPOT ELEVATION)
- (EXISTING CONTOUR)
- DP16 (SEE DRAINAGE PIPE SCHEDULE THIS SHEET ie..#16)
- DS12 (SEE DRAINAGE STRUCTURE SCHEDULE THIS SHEET ie..#12)
- RD (ROOF DRAIN CONNECTION – SEE ARCH PLANS)
- SBAG (SANDBAG CEMENT – SEE CONSTRUCTION DETAILS)
- SB1 (STORMWATER BASIN – SEE SCHEDULE THIS SHEET)
- SK (SKIMMER – SEE CONSTRUCTION DETAILS)

DRAINAGE PIPE SCHEDULE

NO.	SIZE	LF	TYPE	SLOPE
DP1	18	30	ADS(N-12)	2.00%
DP2	18	76	ADS(N-12)	0.00%
DP3	30	122	FRCP	0.20%
DP4	30	58	FRCP	0.20%
DP5	24	22	FRCP	0.20%
DP6	24	22	FRCP	1.00%
DP7	36	48	FRCP	0.20%
DP8	24	116	FRCP	0.20%
DP9	36	84	FRCP	0.20%
DP10	24	108	FRCP	0.20%
DP11	30	102	FRCP	0.20%
DP12	30	76	FRCP	0.20%
DP13	30	76	FRCP	0.20%
DP14	24	96	FRCP	0.20%
DP15	24	70	FRCP	0.20%
DP16	24	12	ADS(N-12)	5.00%
DP17	24	12	ADS(N-12)	1.00%
DP18	24	12	ADS(N-12)	1.00%
DP19	30	174	FRCP	0.20%
DP20	30	156	FRCP	0.20%
DP21	24	12	FRCP	0.46%
DP22	24	116	FRCP	0.20%
DP23	24	108	FRCP	0.20%
DP24	18	59	ADS(N-12)	0.20%
DP25	18	112	ADS(N-12)	0.20%
DP26	18	164	ADS(N-12)	0.20%
DP27	30	52	FRCP	0.20%
DP28	30	58	FRCP	0.20%
DP29	30	20	FRCP	0.20%
DP30	24	126	FRCP	0.20%
DP31	18	64	FRCP	0.20%
DP32	24	140	FRCP	0.20%
DP33	18	84	FRCP	0.20%
DP34	18	84	FRCP	0.20%
DP35	18	72	FRCP	0.20%
DP36	18	72	FRCP	0.20%
DP37	36	6	ADS(N-12)	0.20%
DP38	36	6	RCP	0.00%
DP39	24	60	FRCP	~1.00%

ALL ADS PIPE SHALL BE AS SHOWN OR EQUAL
ALL ADS PIPE SHALL BE RATED N-12
SEE CONSTRUCTION DETAILS
ALL BENDS, TEES AND HEADERS SHALL BE INCLUDED FOR THE DOWNSPOUTS.

STORMWATER BASIN SCHEDULE

NO.	BASIN AREA	TOP OF BANK ELEV.	SIDE SLOPE	BOTTOM ELEV.	WATERSHED AREA
SB1 – SOUTH	0.953 AC	EL 28.50	4:1	EL 25.00	2.83 AC
SB2 – NORTH	0.745 AC	EL 30.00	4:1	EL 27.00	6.06 AC

SEE SITE LAYOUT PLAN FOR DIMENSIONS

DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE STRUCTURE	TOP OF GRATE	NORTH INVERT	SOUTH INVERT	EAST INVERT	WEST INVERT	SLOT INVERT	BOTTOM
DS1	FDOT TYPE "C" INLET W/ 1.1' WIDE SLOT AND SKIMMER	EL. 27.00	EL.	EL. 22.00 18"OUT	EL.	EL.	EL.	EL.
DS2	FDOT TYPE "C" INLET W/ CONCRETE APRON	EL. 29.83	EL.	EL.	EL. 22.30 36" IN	EL.	EL.	EL.
DS3	EXISTING INLET W/ NEW FDOT TYPE "P" TOP	EL. 29.60	EL. 22.81 36" IN	EL. 22.81 36"OUT	EL. 22.81 36"OUT	EL.	EL.	EL.
DS4	FDOT TYPE 4 (4'DIA) CURB INLET TOP W/ TYPE "P" (4'DIA) BOTTOM	EL. 29.47	EL. 22.77 30" IN	EL.	EL. 22.77 36"	EL. 22.72 36"	EL. 28.80	EL.
DS5	FDOT TYPE 4 (4'DIA) CURB INLET TOP W/ TYPE "P" (4'DIA) DOGHOUSE BOTTOM	EL. 29.47	EL.	EL.	EL.	EL. 21.65 30"OUT	EL. 28.80	EL.
DS6	FDOT TYPE 4 (4'DIA) CURB INLET TOP W/ TYPE "P" (4'DIA) BOTTOM	EL. 29.47	EL.	EL. 22.71 30"	EL. 22.71 30" IN	EL.	EL. 28.80	EL.
DS7	FDOT TYPE "C" INLET W/ 5' WIDE CONCRETE APRON	EL. 29.60	EL.	EL.	EL.	EL. 22.30 30" IN	EL.	EL.
DS8	FDOT TYPE "C" INLET W/ 1.1' WIDE SLOT AND SKIMMER	EL. 29.17	EL.	EL.	EL. 22.00 24"OUT	EL.	EL. 26.91	EL.
DS9	FDOT TYPE 4 – 24" CONCRETE MITERED END W/ SANDBAG CEMENT OUTFALL	EL.	EL.	EL.	EL.	EL. 21.76 24" IN	EL.	EL.
DS10	FDOT TYPE "C" INLET W/ 1.1' WIDE SLOT AND SKIMMER	EL. 27.00	EL.	EL.	EL. 22.00 24"OUT	EL.	EL.	EL.
DS11	FDOT TYPE 4 – 24" CONCRETE MITERED END W/ SANDBAG CEMENT OUTFALL	EL.	EL.	EL.	EL.	EL. 21.76 24" IN	EL.	EL.
DS12	FDOT TYPE "C" INLET W/ 5' WIDE CONCRETE APRON	EL. 29.60	EL. 22.30 36" IN	EL.	EL.	EL.	EL.	EL.
DS13	FDOT TYPE "P" INLET W/ TYPE "P" (6'DIA) BOTTOM	EL. 29.60	EL. 22.90 36" IN	EL. 22.90 36"OUT	EL.	EL. 24.30 24" IN	EL.	EL.
DS14	FDOT TYPE "C" INLET W/ 1.1' WIDE SLOT AND SKIMMER	EL. 27.00	EL.	EL.	EL. 25.42 24"OUT	EL.	EL.	EL.
DS15	FDOT TYPE "P" INLET W/ TYPE "P" (6'DIA) BOTTOM	EL. 29.40	EL. 23.93 24" IN	EL.	EL. 23.93 36"OUT	EL. 23.93 36" IN	EL.	EL.
DS16	FDOT TYPE "P" INLET	EL. 29.40	EL.	EL. 24.15 24"OUT	EL. 24.15 24" IN	EL.	EL.	EL.
DS17	FDOT TYPE "P" INLET	EL. 29.80	EL.	EL.	EL.	EL. 24.30 24"OUT	EL.	EL.
DS18	FDOT TYPE "P" INLET	EL. 29.80	EL. 24.86 30" IN	EL. 24.86 30"OUT	EL.	EL.	EL.	EL.
DS19	FDOT TYPE "P" INLET W/ TYPE "P" (6'DIA) BOTTOM	EL. 29.40	EL.	EL. 24.86 30"OUT	EL.	EL. 24.8624" IN	EL.	EL.
DS20	FDOT TYPE "C" GRADE CURB INLET TOP W/ TYPE "P" (4'DIA) BOTTOM	EL. 29.14	EL.	EL. 25.05 24" IN	EL. 25.05 24"OUT	EL.	EL. 29.40	EL.
DS21	FDOT TYPE "P" INLET	EL. 29.40	EL. 25.23 24"OUT	EL.	EL.	EL.	EL.	EL.
DS22	FDOT TYPE "P" INLET	EL. 30.80	EL.	EL.	EL.	EL. 26.70 18"OUT	EL.	EL.
DS23	FDOT TYPE "P" INLET	EL. 29.93	EL.	EL.	EL.	EL.	EL.	EL.
DS24	FDOT TYPE "C" INLET W/ 1.1RD WIDE SLOT AND SKIMMER	EL. 27.00	EL.	EL.	EL. 26.00 24"OUT	EL. 26.50 18" IN	EL.	EL.
DS25	FDOT TYPE 4 – 24" CONCRETE MITERED END W/ SANDBAG CEMENT OUTFALL	EL.	EL.	EL.	EL.	EL. 25.73 24" IN	EL. 29.37 WEST	EL.
DS26	FDOT TYPE "C" INLET W/ 1.1' WIDE SLOT AND SKIMMER	EL. 30.27	EL.	EL.	EL. 26.00 24"OUT	EL.	EL. 29.37 WEST	EL.
DS27	FDOT TYPE 4 – 24" CONCRETE MITERED END W/ SANDBAG CEMENT OUTFALL	EL.	EL.	EL.	EL.	EL. 25.73 24" IN	EL.	EL.
DS28	FDOT TYPE "C" INLET W/ 5' WIDE CONCRETE APRON	EL. 29.30	EL.	EL.	EL.	EL. 25.50 30" IN	EL.	EL.
DS29	FDOT TYPE "P" INLET	EL. 31.00	EL.	EL.	EL. 24.62 30"OUT	EL. 24.62 30" IN	EL.	EL.
DS30	FDOT TYPE "P" INLET	EL. 29.00	EL.	EL.	EL. 24.54 30"OUT	EL. 24.54 24" IN	EL.	EL.
DS31	FDOT TYPE 7 MANHOLE TOP W/ FDOT "P" INLET BOTTOM	EL. 29.00	EL.	EL.	EL. 25.65 24"OUT	EL. 25.65 24" IN	EL.	EL.
DS32	FDOT TYPE 7 MANHOLE TOP W/ FDOT "P" INLET BOTTOM	EL. 30.00	EL. 25.89 24" IN	EL. 25.89 24"OUT	EL.	EL.	EL.	EL.
DS33	FDOT TYPE 7 MANHOLE TOP W/ FDOT "P" INLET BOTTOM	EL. 31.00	EL. 26.27 24"OUT	EL. 26.27 18" IN	EL.	EL.	EL.	EL.
DS34	FDOT TYPE 7 MANHOLE TOP W/ FDOT "P" INLET BOTTOM	EL. 30.00	EL. 26.47 24"OUT	EL.	EL.	EL. 26.47 18" IN	EL.	EL.
DS35	FDOT TYPE "C" INLET	EL. 30.00	EL. 26.69 18" IN	EL.	EL.	EL.	EL.	EL.
DS36	FDOT TYPE "C" INLET W/ 5' WIDE CONCRETE APRON	EL. 29.50	EL.	EL. 27.00 18"OUT	EL.	EL.	EL.	EL.
DS37	FDOT TYPE "C" INLET W/ 5' WIDE CONCRETE APRON	EL. 29.50	EL.	EL.	EL.	EL. 25.50 30" IN	EL.	EL.
DS38	FDOT TYPE "P" INLET	EL. 31.00	EL.	EL.	EL. 26.50 30"OUT	EL. 26.50 30" IN	EL.	EL.
DS39	FDOT TYPE "P" INLET	EL. 31.00	EL.	EL.	EL. 27.00 30"OUT	EL.	EL.	EL.
DS40	FDOT TYPE "P" INLET	EL. 31.00	EL.	EL.	EL. 26.64 30"OUT	EL. 26.64 24" IN	EL.	EL.
DS41	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 31.00	EL.	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.
DS42	FDOT TYPE 6 CURB INLET	EL. 32.13	EL. 27.13 18" IN	EL.	EL. 26.63 24"OUT	EL. 26.63 24" IN	EL. 31.66	EL.
DS43	FDOT TYPE "P" INLET W/ PEDESTRIAN GRATE	EL. 32.50	EL.	EL. 27.66 18"OUT	EL.	EL.	EL.	EL.
DS44	FDOT TYPE "P" INLET	EL. 31.66	EL.	EL.	EL.	EL.	EL.	EL.
DS44	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS45	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS46	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS47	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS48	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS49	FDOT TYPE 6 CURB INLET	EL. 32.13	EL. 27.13 18" IN	EL.	EL. 26.91 24"OUT	EL. 27.13 18" IN	EL. 31.66	EL.
DS50	FDOT TYPE "P" INLET	EL. 32.50	EL.	EL. 27.66 18"OUT	EL.	EL.	EL.	EL.
DS51	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS52	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS53	ADS 12" CATCH BASIN W/BLF-10"ADS AND TEE CONNECTION	EL. 32.00	EL. 30.00 10"OUT	EL.	EL.	EL.	EL.	EL.
DS54	FDOT TYPE "P" INLET W/ PEDESTRIAN GRATE	EL. 32.50	EL.	EL. 27.47 18"OUT	EL.	EL.	EL.	EL.
DS55	FDOT TYPE 4 (4'DIA) CURB INLET TOP W/ TYPE "P" (4'DIA) BOTTOM	EL. 31.87	EL.	EL.	EL.	EL. 27.32 18"OUT	EL. 31.00	EL.
DS56	FDOT TYPE "C" INLET	EL. 28.80	EL. 26.30 18"OUT	EL.	EL.	EL.	EL.	EL.
DS57	FDOT TYPE 7 MANHOLE TOP W/ FDOT "E" INLET BOTTOM	EL. 30.03	EL. 24.55 24"	EL. 26.00 18" IN	EL.	EL. 24.52 36"OUT	EL.	EL.
DS58	FDOT TYPE "P" INLET	EL. 28.50	EL. 23.63 24"	EL. 23.63 24"OUT	EL.	EL.	EL.	EL.
DS59	EXISTING CURB INLET TO REPLACE WITH FDOT TYPE 7 MANHOLE TOP	EL. 33.98	EL.	EL. 21.35 18"	EL. 21.35 18"	EL. 21.35 18"	EL.	EL.
DS60	FDOT TYPE 3 (4'DIA) CURB INLET TOP W/ TYPE "P" (4'DIA) DOG HOUSE BOTTOM	EL. 25.25	EL. 21.40 18" IN	EL.	EL. 21.40 18"	EL. 21.40 18"	EL. 24.58	EL.

NOTE: ADD MITERED PIPE LENGTH FOR END SECTION PER F.D.O.T. INDEX 273 EXCEPT A.D.S. SEE CONSTRUCTION DETAILS.
NOTE: ALL INLETS SHALL HAVE A 2'DEPTH BOTTOM BELOW THE INVERT OF THE LOWEST PIPE INVERT.

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER FL LIC # 48203	PROFESSIONAL ENGINEER FL LIC # 57988	PROFESSIONAL ENGINEER FL LIC # 61759

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-20-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-09-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 7288
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

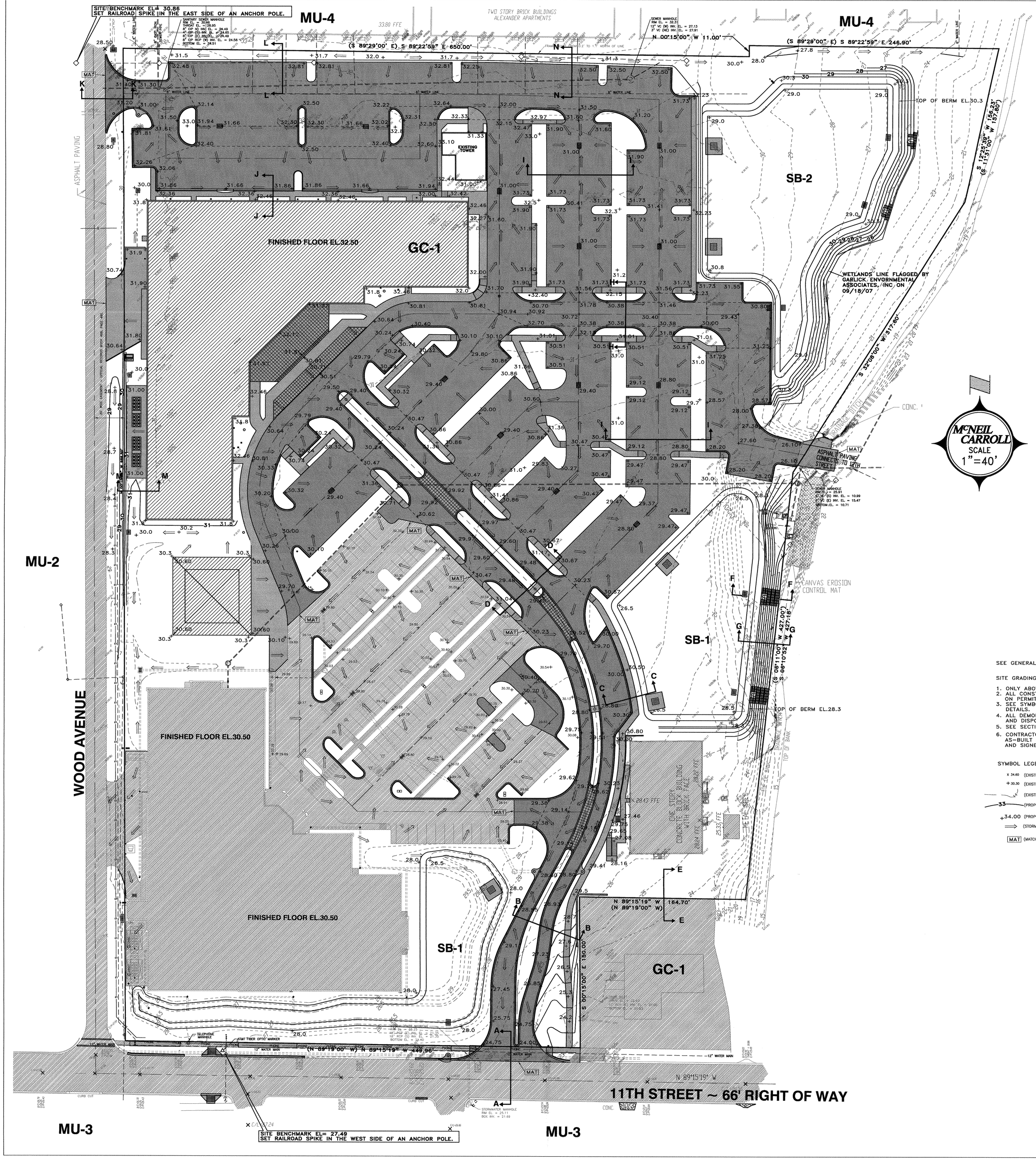
SHEET TITLE:

SITE DRAINAGE PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C5



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE GRADING AND PAVING DRAWING NOTES:

1. ONLY ABOVE GROUND FEATURES AND UNDERGROUND DRAINAGE STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
5. SEE SECTIONS IN CONSTRUCTION DETAILS.
6. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.

SYMBOL LEGEND

- x 34.60 (EXISTING SPOT ELEVATION)
- +30.30 (EXISTING SPOT ELEVATION (LIBRARY SITE))
- (EXISTING CONTOUR)
- 33 (PROPOSED CONTOUR)
- +34.00 (PROPOSED SPOT ELEVATION)
- (STORMWATER SURFACE FLOW)
- MAT (MATCH PROPOSED SURFACE TO EXISTING SURFACE)

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 49305 | Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988 | Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7388
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5730
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

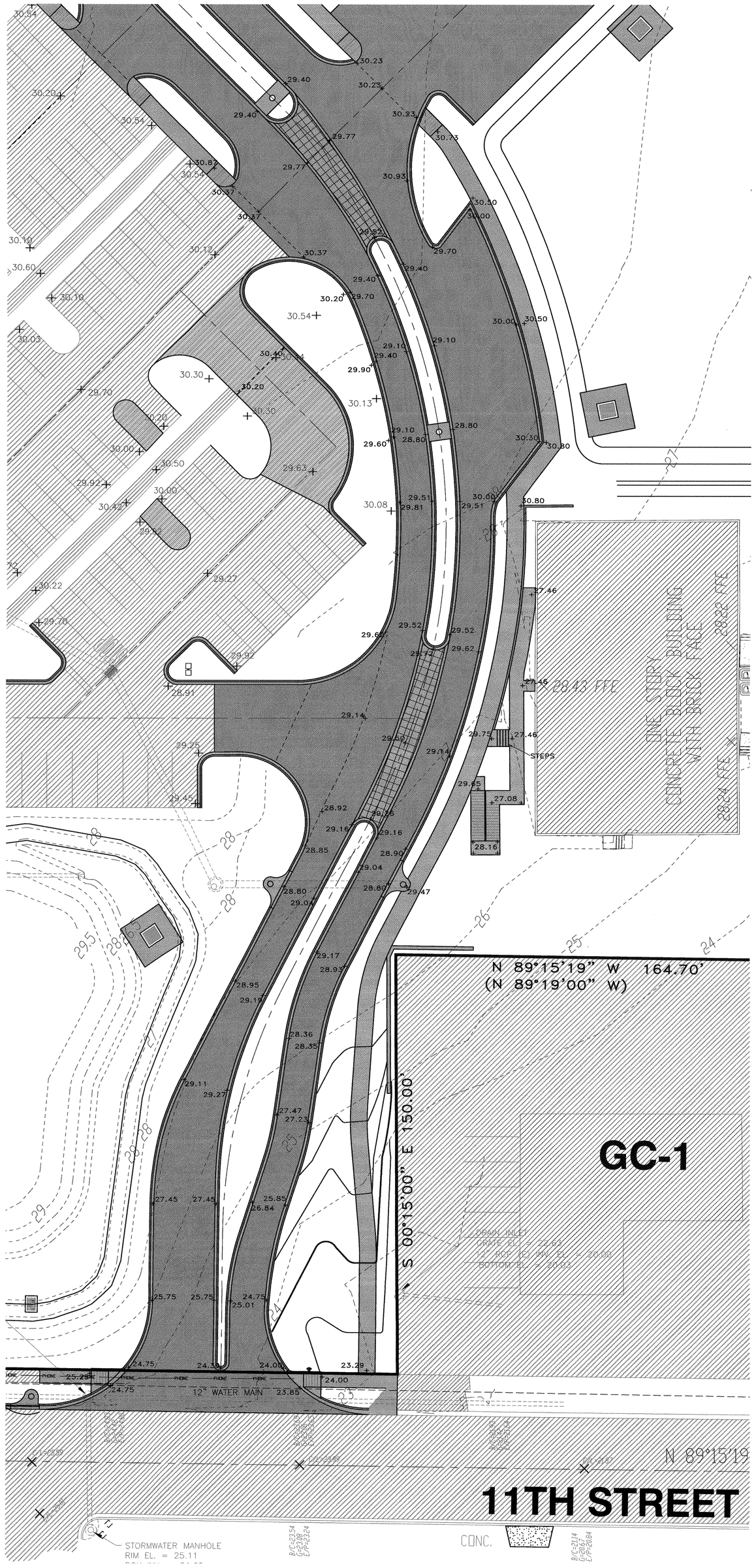
SHEET TITLE:

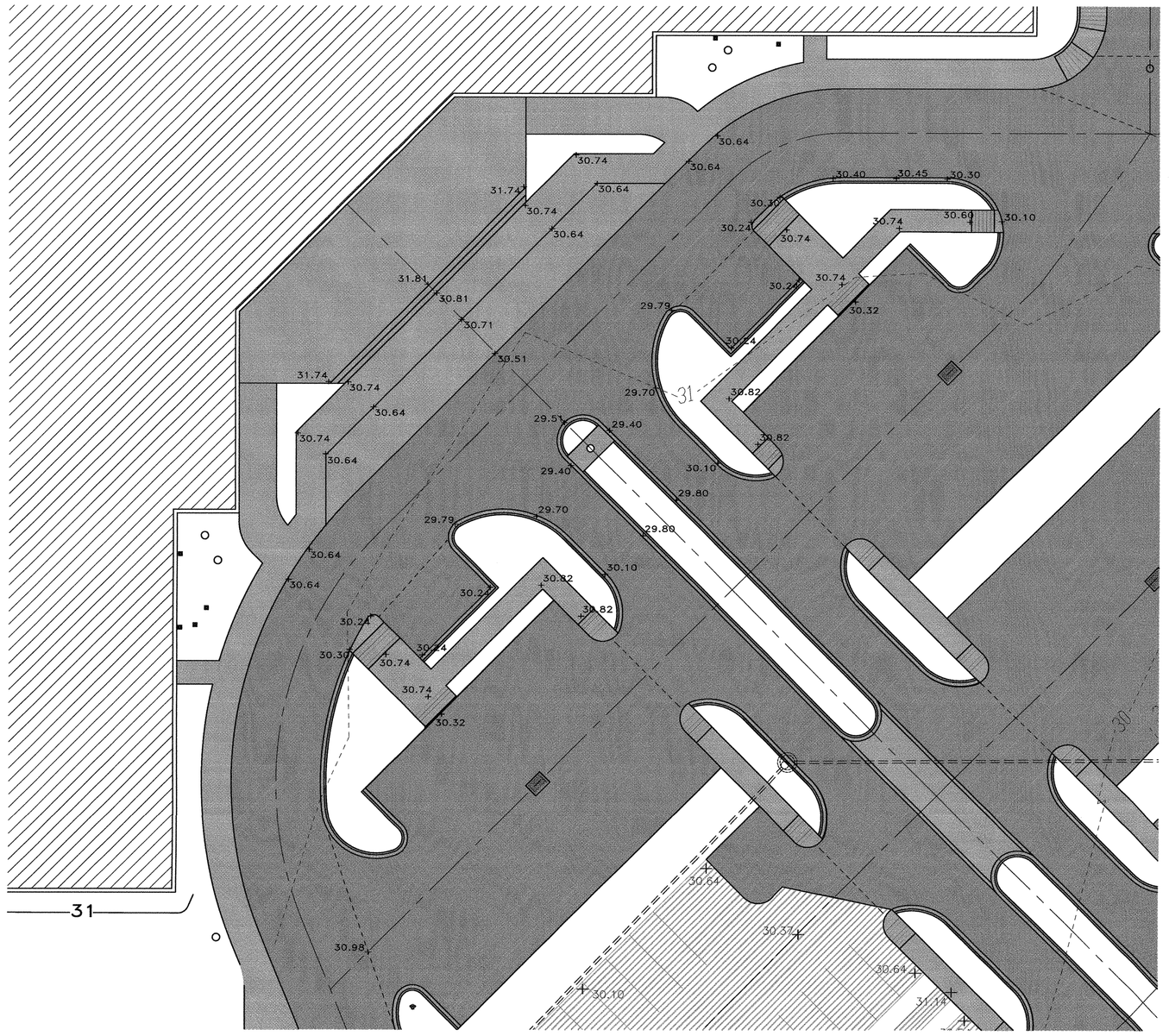
SITE GRADING PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C6





McNEIL CARROLL
SCALE
1"=40'

SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

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2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
5. SEE SECTIONS IN CONSTRUCTION DETAILS.
6. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.

SYMBOL LEGEND

- x 34.60 (EXISTING SPOT ELEVATION)
- +30.30 (EXISTING SPOT ELEVATION (LIBRARY SITE))
- (EXISTING CONTOUR)
- 33 (PROPOSED CONTOUR)
- +34.00 (PROPOSED SPOT ELEVATION)
- (STORMWATER SURFACE FLOW)
- MAT (MATCH PROPOSED SURFACE TO EXISTING SURFACE)

NO.	DATE	BY	REVISIONS

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Robert L. Carroll, P.E. — PROFESSIONAL ENGINEER — FL LIC # 57988
Alan W. Kirkland, P.E. — PROFESSIONAL ENGINEER — FL LIC # 61729

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2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7399
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

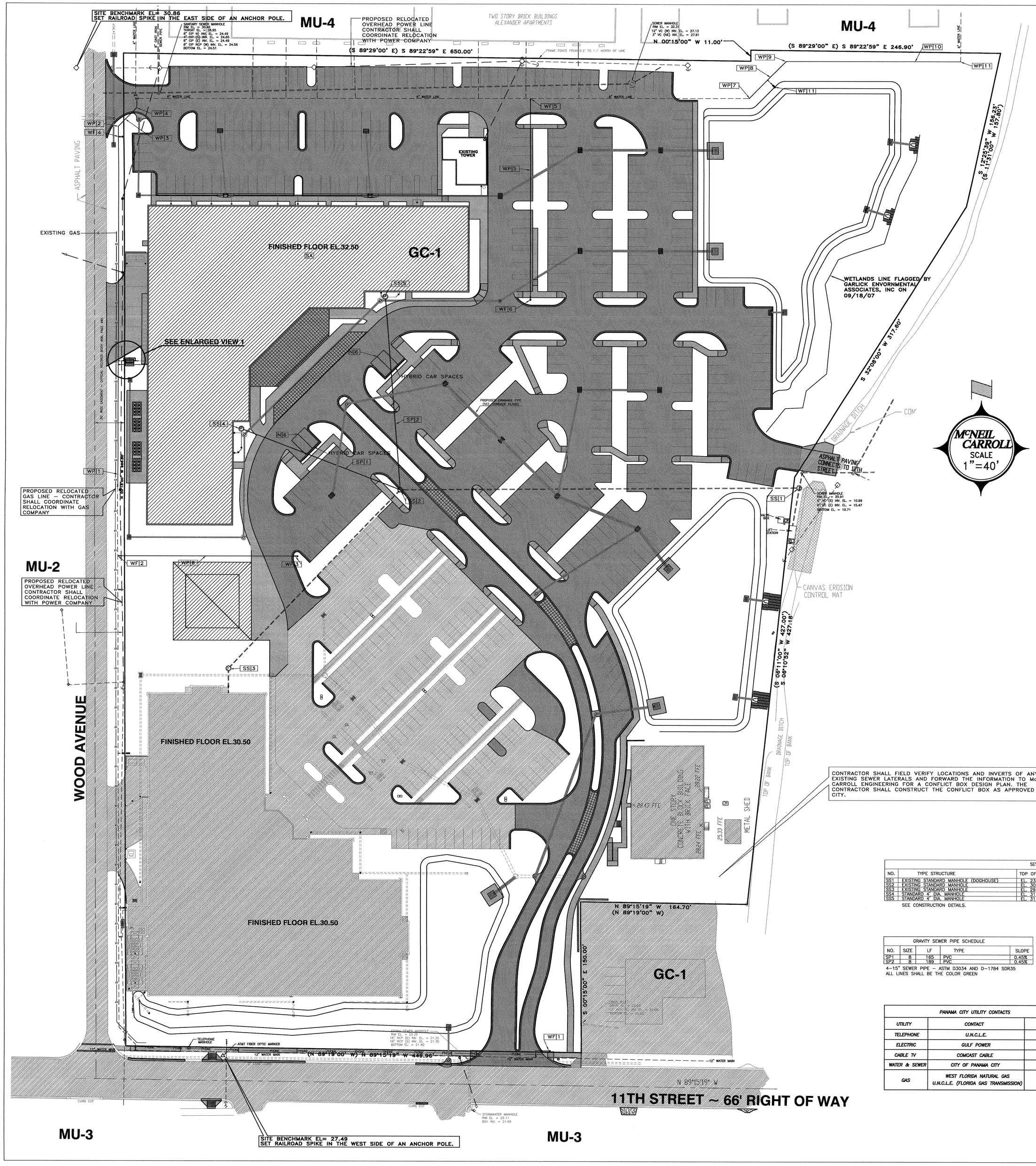
SHEET TITLE:

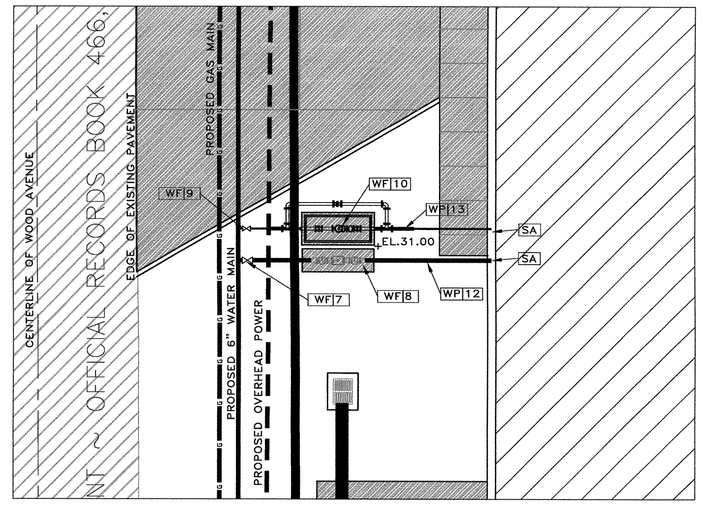
SITE GRADING PLAN

SHEET NUMBER:

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PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C7





ENLARGED VIEW 1
SCALE 1"=10'

SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE UTILITY DRAWING NOTES:

1. ONLY ABOVE GROUND FEATURES AND UTILITIES (DRAINAGE PIPE IS SHADED) ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS.
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. SEE SECTION AND DETAILS IN CONSTRUCTION DETAILS.
5. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
6. SEE ARCHITECTURAL PLANS FOR HYBRID CAR ELECTRICAL SERVICES

SYMBOL LEGEND

- FDC (FIRE DEPARTMENT CONNECTION – SEE ARCH. PLANS)
- N1 (SEE NOTE in … #1 – SEE NOTES THIS SHEET)
- SA (SEE ARCH. PLANS)
- SP1 6 (SEE GRAVITY SEWER PIPE SCHEDULE THIS SHEET in … #16 SEE CONSTRUCTION DETAILS)
- SS1 2 (SEE SEWER STRUCTURE SCHEDULE THIS SHEET in … #12 SEE CONSTRUCTION DETAILS)
- WF1 4 (SEE WATER FIXTURE SCHEDULE THIS SHEET in … #14 SEE CONSTRUCTION DETAILS)
- WP1 0 (SEE WATER PIPE SCHEDULE THIS SHEET in … #10 SEE CONSTRUCTION DETAILS)

SEWER STRUCTURE SCHEDULE

NO.	TYPE STRUCTURE	TOP OF M.H.	NORTH INVERT	SOUTH INVERT	EAST INVERT	WEST INVERT
SS1	EXISTING STANDARD MANHOLE (DOGHOUSE)	EL. 33.00	EL. 10.96	EL. 10.86	EL.	EL. 18.33 8" IN
SS2	EXISTING STANDARD MANHOLE	EL. 30.00	EL. 22.91 8" IN	EL. 22.81 8" IN	EL. 22.81 8"OUT	EL. 22.91 8" IN
SS3	EXISTING STANDARD MANHOLE	EL. 29.30	EL. 24.00 8"OUT	EL. 24.19 8" IN	EL.	EL.
SS4	STANDARD 4' DIA. MANHOLE	EL. 31.00	EL.	EL.	EL. 23.65 8"OUT	EL.
SS5	STANDARD 4' DIA. MANHOLE	EL. 31.00	EL.	EL. 23.76 8" IN	EL.	EL.

SEE CONSTRUCTION DETAILS.

GRAVITY SEWER PIPE SCHEDULE

NO.	SIZE	LF	TYPE	SLOPE
SP1	8	165	PVC	0.45%
SP2	8	189	PVC	0.45%

4-15" SEWER PIPE – ASTM D3034 AND D-1784 SDR35
ALL LINES SHALL BE THE COLOR GREEN

WATER MAIN PIPE SCHEDULE

NO.	SIZE	LF	TYPE
WP1	6	356	PVC
WP2	6	—	45° BEND
WP3	6	28	PVC
WP4	6	—	45° BEND
WP5	6	200	PVC
WP6	6	197	PVC
WP7	6	—	45° BEND
WP8	6	52	PVC
WP9	6	—	45° BEND
WP10	6	172	PVC
WP11	6	—	90° BEND
WP12	6	30	PVC
WP13	4	30	PVC

UP TO 4" WATER MAIN – SDR 26
4-12" WATER MAIN – C900 DR14
ALL LINES SHALL BE THE COLOR BLUE

WATER FIXTURE SCHEDULE

NO.	TYPE
WF1	RELOCATED EXISTING FIRE HYDRANT
WF2	6"X6" TAPPING TEE W/6" GATE VALVE ASSEMBLY
WF3	FIRE HYDRANT ASSEMBLY
WF4	RELOCATED EXISTING FIRE HYDRANT
WF5	6"X6" TAPPING TEE W/6" GATE VALVE ASSEMBLY
WF6	FIRE HYDRANT ASSEMBLY
WF7	6"X6" TAPPING TEE W/6" GATE VALVE ASSEMBLY
WF8	6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY
WF9	8"X4" TAPPING TEE W/4" GATE VALVE ASSEMBLY
WF10	4" STROKE METER ASSEMBLY W/ PRECAST VAULT
WF11	1 1/2" LANDSCAPE METER AND BACKFLOW PREVENTER ASSEMBLY

SEE CONSTRUCTION DETAILS.
ALL LINES SHALL BE THE COLOR BLUE

PANAMA CITY UTILITY CONTACTS		
UTILITY	CONTACT	
TELEPHONE	U.N.C.L.E.	1-800-432-4770
ELECTRIC	GULF POWER	1-850-872-3212
CABLE TV	COMCAST CABLE	1-850-769-9624
WATER & SEWER	CITY OF PANAMA CITY	1-850-872-3195
GAS	WEST FLORIDA NATURAL GAS U.N.C.L.E. (FLORIDA GAS TRANSMISSION)	1-850-872-6140 1-800-432-4770

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. – PROFESSIONAL ENGINEER – FL LIC # 49303
Robert L. Carroll, P.E. – PROFESSIONAL ENGINEER – FL LIC # 57968
Alan W. Kirkland, P.E. – PROFESSIONAL ENGINEER – FL LIC # 61729

REVISIONS:

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JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

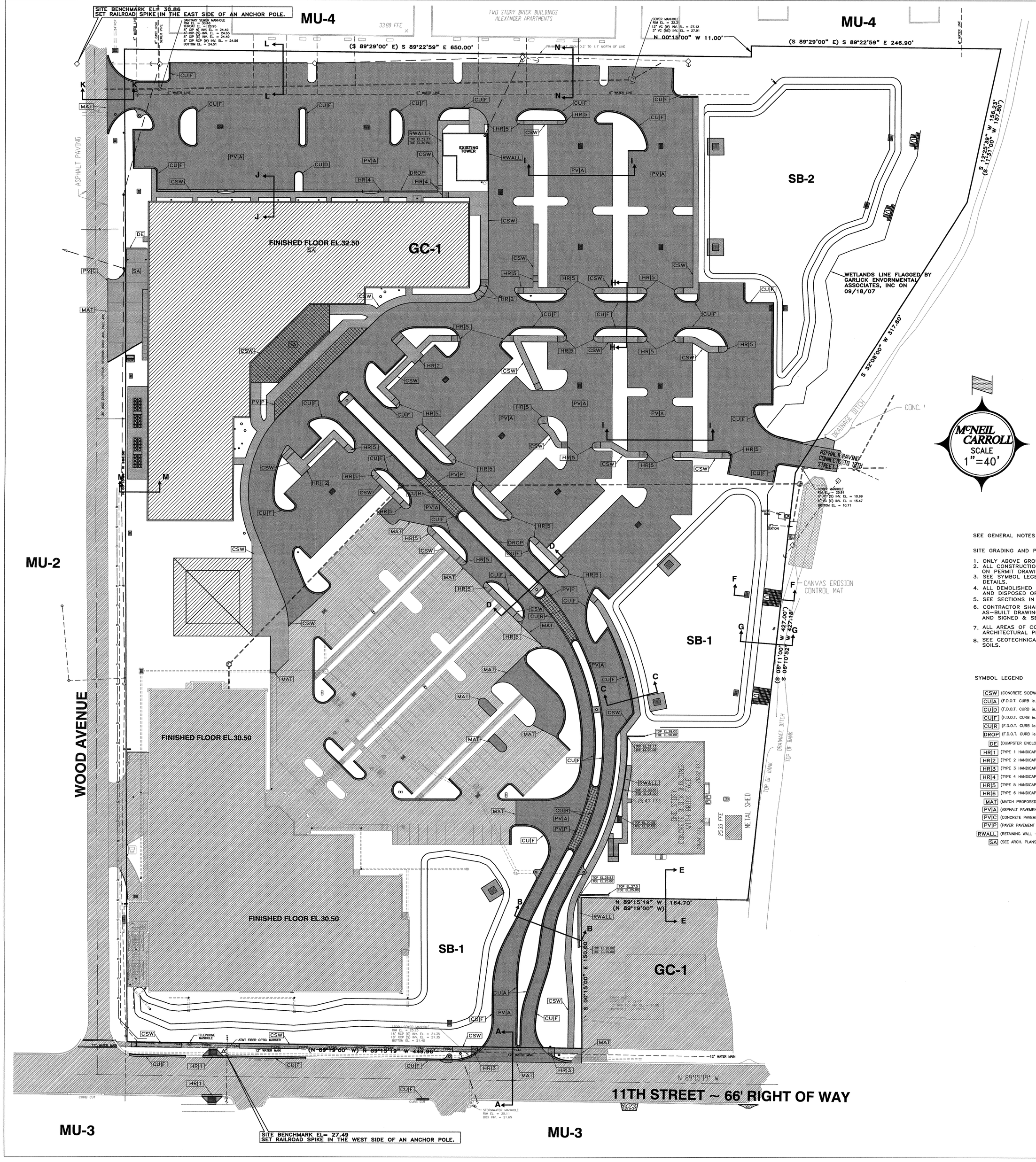
McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7388
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
SITE UTILITY PLAN

SHEET NUMBER:
PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION
C8

OFFICIAL RECORDS BOOK 466 ~ PAGE 1



SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE GRADING AND PAVING DRAWING NOTES:

1. ONLY ABOVE GROUND FEATURES AND UNDERGROUND DRAINAGE STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.)
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
5. SEE SECTIONS IN CONSTRUCTION DETAILS.
6. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
7. ALL AREAS OF CONSTRUCTION NOT PAVED OR LANDSCAPED SHALL BE SODDED. SEE ARCHITECTURAL PLANS FOR LANDSCAPING AND TYPE GRASSES TO BE INSTALLED.
8. SEE GEOTECHNICAL REPORT FOR ALL PAVING RECOMMENDATIONS AND PLACEMENT OF SOILS.

SYMBOL LEGEND

- CSW (CONCRETE SIDEWALK – SEE CONSTRUCTION DETAILS)
- CUA (F.D.O.T. CURB ie., TYPE A)
- CUD (F.D.O.T. CURB ie., TYPE D)
- CUF (F.D.O.T. CURB ie., TYPE F)
- CUR (F.D.O.T. CURB ie., TYPE R" RIBBON)
- DROP (F.D.O.T. CURB ie., DROP)
- DE (DUMPSTER ENCLOSURE – SEE ARCH. PLANS)
- HR1 (TYPE 1 HANDICAP RAMP ie.,12:1 SLOPE)
- HR2 (TYPE 2 HANDICAP RAMP ie.,12:1 SLOPE)
- HR3 (TYPE 3 HANDICAP RAMP ie.,12:1 SLOPE)
- HR4 (TYPE 4 HANDICAP RAMP ie.,12:1 SLOPE)
- HR5 (TYPE 5 HANDICAP RAMP ie.,12:1 SLOPE)
- HR6 (TYPE 6 HANDICAP RAMP ie.,12:1 SLOPE)
- MAT (MATCH PROPOSED SURFACE TO EXISTING SURFACE)
- PVA (ASPHALT PAVEMENT – SEE CONSTRUCTION DETAILS)
- PVC (CONCRETE PAVEMENT – SEE CONSTRUCTION DETAILS)
- PVP (PAVER PAVEMENT – SEE CONSTRUCTION DETAILS)
- RWALL (RETAINING WALL – SEE ARCH. PLANS)
- SA (SEE ARCH. PLANS)

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
FL LC # 46303	FL LC # 57998	FL LC # 61729

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

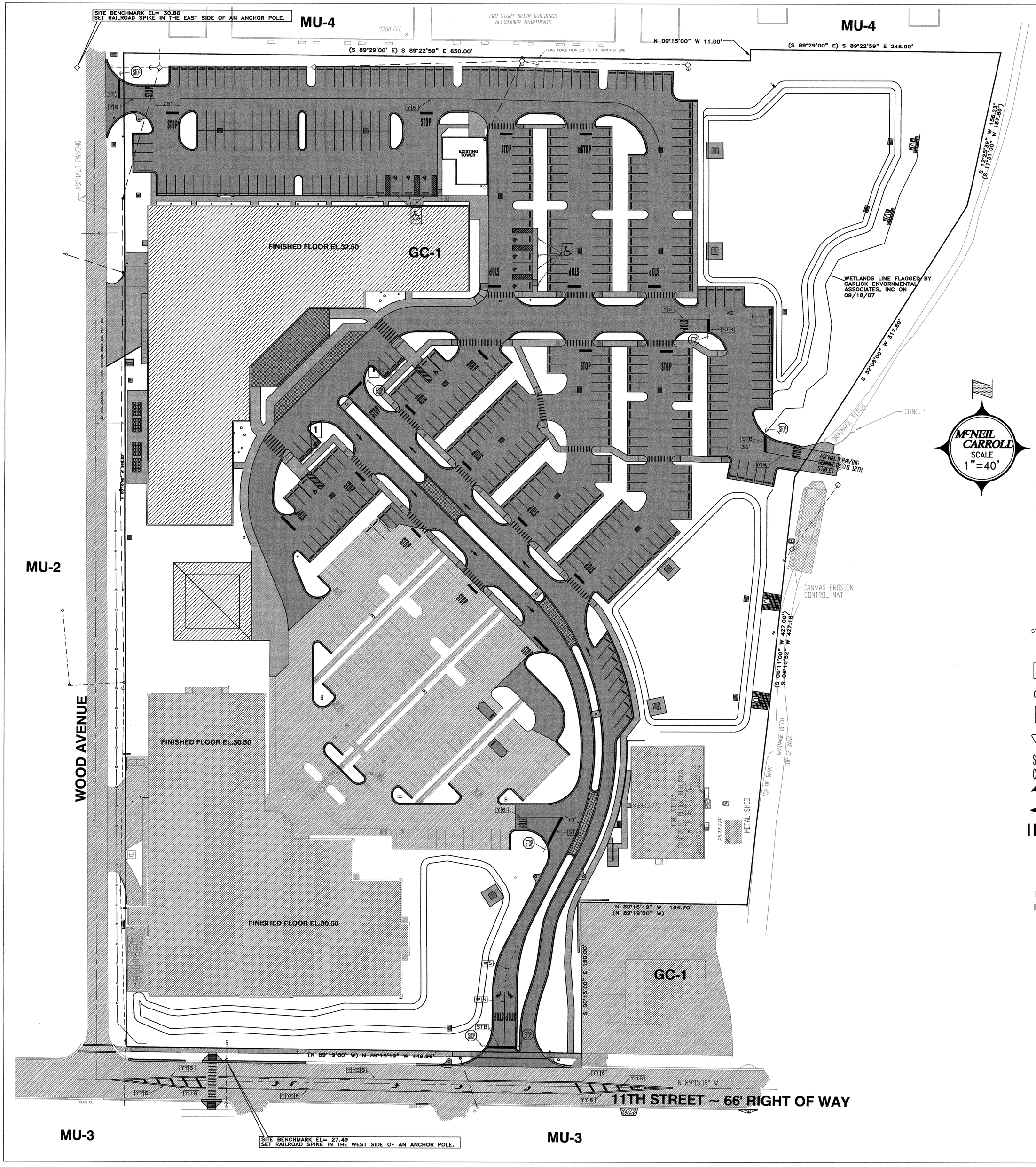
SHEET TITLE:

SITE PAVING PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C9



McNEIL CARROLL
SCALE
1"=40'

SEE GENERAL NOTES IN CONSTRUCTION DETAILS.

SITE SIGNAGE AND STRIPING DRAWING NOTES:

1. ONLY PARKING LOT SIGNAGE AND STRIPING IS SHOWN ON THIS SHEET. SEE ARCHITECT'S PLANS FOR ALL OTHER SIGNAGE AND STRIPING.
2. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED
3. SEE SECTION AND DETAILS IN CONSTRUCTION DETAILS.
4. ALL PARKING STALLS SHALL BE 4" WHITE STRIPING ON ASPHALT AND 4"YELLOW ON CONCRETE. HANDICAP SIGNAGE AND STRIPING SHALL BE TO STATE AND CITY CODE. LANE SEPARATION LINES SHALL BE 6" WIDE. ALL STRIPING SHALL BE PER F.D.O.T. STANDARDS. ONLY THERMOPLASTIC SHALL BE USED ON CONCRETE PER F.D.O.T. SECTION 711 (1991). PAINTED STRIPE SHALL BE ON ASPHALT PER F.D.O.T. SECTION 710 (1991) F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. ALL HANDICAP PARKING STALLS SHALL STRIPED TO STATE AND CITY CODES. ALL STRIPING SHALL BE PER F.D.O.T. STANDARDS. ONLY THERMOPLASTIC SHALL BE USED ON CONCRETE PER F.D.O.T. SECTION 711 (1991). PAINTED STRIPE SHALL BE ON ASPHALT PER F.D.O.T. SECTION 710 (1991) F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. SEE SITE LAYOUT PLAN FOR DIMENSIONS AND LOCATIONS.

SYMBOL LEGEND

- (DENOTES NEW SIGN LOCATION – FDOT INDEX 11860, 11865, 17302)
- 1 (DENOTES NEW INFORMATION SIGN – FDOT INDEX 11860, 11865, 17302)
  1– TOW AWAY ZONE, OFFICAL COUNTY VEHICLE PARKING ONLY
  2– 5 MINUTE UNLOADING ZONE
- STOP (DENOTES NEW STOP SIGN – FDOT INDEX 11860, 11865, 17302)
- (DENOTES NEW HANDICAP SIGN – FDOT INDEX 11860, 11865, 17302) (COMPLY WITH THE CITY'S STANDARD)
- 3 (DENOTES NEW YEILD SIGN – FDOT INDEX 11860, 11865, 17302)
  3– RED YEILD SIGN
  4– YELLOW YEILD SIGN
- STOP (WHITE STOP LETTERING – SEE CONSTRUCTION DETIALS – FDOT INDEX 17346)
- ONLY (WHITE STOP LETTERING – SEE CONSTRUCTION DETIALS – FDOT INDEX 17346)
- (DENOTES NEW TURN DIRECTIONAL ARROW – FDOT INDEX 17346)
- (DENOTES NEW STRAIGHT DIRECTIONAL ARROW – FDOT INDEX 17346)
- (DENOTES NEW HIGH DEFINITION CROSSWALK – FDOT INDEX 17346)
- STB (DENOTES NEW 24" WHITE STOP BAR – FDOT INDEX 17346)
- WS (DENOTES NEW SINGLE 2'LONG WHITE SKIP STRIPE SPACED 9'4" – FDOT INDEX 17346)
- W6 (DENOTES NEW SINGLE WHITE STRIPE WITH WIDTH ie, 6" – FDOT INDEX 17346)
- Y6 (DENOTES NEW SINGLE YELLOW STRIPE WITH WIDTH ie, 6" – FDOT INDEX 17346)
- Y18 (DENOTES NEW SINGLE YELLOW STRIPE WITH WIDTH ie, 18" – FDOT INDEX 17346)
- YY6 (DENOTES NEW DOUBLE YELLOW STRIPE WITH WIDTH ie, 6" – FDOT INDEX 17346)
- Y|YS6 (DENOTES NEW DOUBLE YELLOW STRIPE & YELLOW SKIP WITH WIDTH ie, 6" – FDOT INDEX 17346)
- (DENOTES EXISTING HIGH DEFINITION CROSSWALK)
- STOP (DENOTES EXISTING STOP LETTERING)
- (DENOTES EXISTING HANDICAP PARKING)

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 46303 | Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988 | Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

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475 Harrison Avenue, Suite 200
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Phone: 850-763-5720
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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SITE SIGNAGE & STRIPING PLAN

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C10

GENERAL NOTES

PREVENTION, CONTROL AND ABATEMENT OF EROSION

ALL ON AND OFF SITE WORK INCLUDED CONSISTS OF BUT NOT LIMITED TO THE FOLLOWING:

10.2643;SEEDING AND MULCHING OR SODDING FOR STABILIZATION.

CONSTRUCTION OF SEDIMENT BASINS, CHECK DAMS OR FLOATING BARRIERS.

PLACEMENT OF SILTATION FENCES DURING THE COURSE OF CONSTRUCTION.

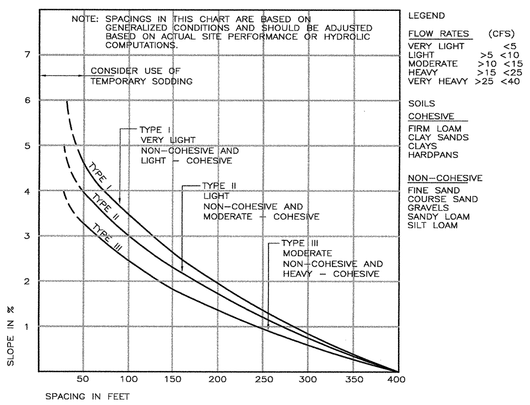
SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.

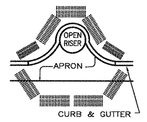
THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.

ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.

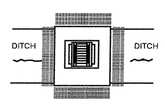
THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIORNMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).



FDOT CHART I (BALED HAY OR STRAW BARRIERS AND SILT FENCES - INDEX 102



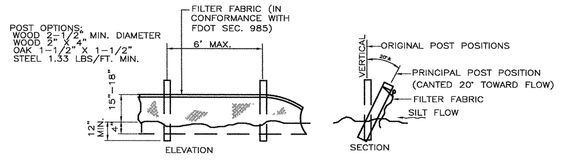
PARTIAL INLET



DITCH BOTTOM INLET

ANCHOR BALES WITH 2 - 2"X2"X4' STAKES PER BALE (SEE DETAIL)

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

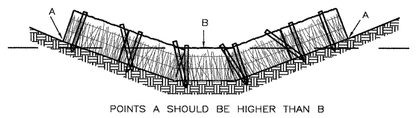


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR THE STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE

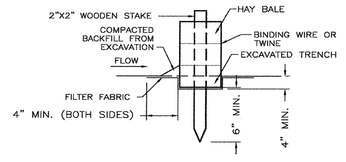
NOTE:

I.0.315,TO.252;DO NOT DEPLOY SILT FENCES IN A MANNER THAT WILL ACT AS A DAM ACCROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND AS TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
SILT FENCE SHOULD BE REPLACED EVERY SIX (6) MONTHS.
SILT FENCE SHALL EXTEND A MINIMUM OF 4" BELOW GRADE. SILT FENCE SHALL EXTEND 4" AWAY FROM STAKES.



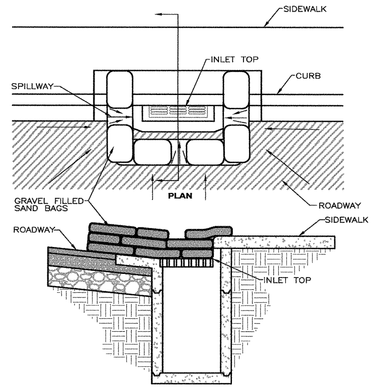
POINTS A SHOULD BE HIGHER THAN B

PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



EROSION CONTROL DETAILS

NOT TO SCALE

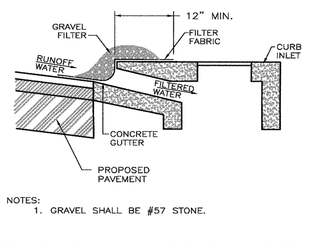


NOTE:

1. GRAVEL FILLED BAGS TO BE PLACED TIGHTLY TOGETHER AS TO NOT ALLOW ANY GAPS IN BETWEEN THE BAGS VERTICALLY AND HORIZONTALLY.
2. IF SEDIMENT IS PENETRATING BAGS, BAGS MAY NEED TO BE WRAPPED IN ADDITIONAL FILTER FABRIC.

CURB INLET SEDIMENT BARRIER (OPTION 1)

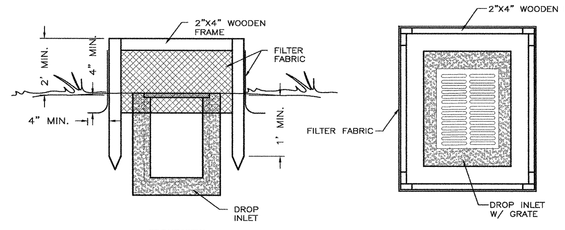
NOT TO SCALE



NOTES:
1. GRAVEL SHALL BE #57 STONE.

GRAVEL CURB INLET SEDIMENT FILTER (OPTION 2)

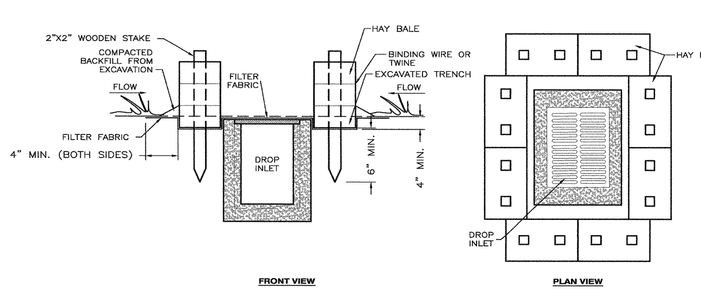
NOT TO SCALE



NOTES:
1. TOP FRAME REQUIRED FOR STABILITY.
2. THIS METHOD OF INLET PROTECTION IS NOT TO BE USED IN RIGHT-OF-WAYS OR MEDIANS.
3. STAKES SHALL EXTEND 1' MIN. BELOW GRADE.
4. FILTER FABRIC SHALL EXTEND 4" MIN. BELOW GRADE AND 4" MIN. BEYOND WOODEN FRAME.

DROP INLET SEDIMENT FILTER OPTION 1

NOT TO SCALE



DROP INLET SEDIMENT FILTER OPTION 2

NOT TO SCALE

WORK IN RIGHTS-OF-WAYS

ALL WORK WITHIN RIGHTS-OF-WAYS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE RESPECTIVE AGENCIES.

THE CONTRACTOR SHALL COOPERATE WITH THE GOVERNING STATE AND LOCAL AGENCIES IN ALL PROCEDURES, MATERIALS AND METHODS OF CONSTRUCTION.

ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

CONSTRUCTION OF DRIVEWAY CONNECTIONS TO EXISTING MUNICIPAL ROADWAYS AS SHOWN ON PLANS.

PLACEMENT OF ABOVE OR BELOW GROUND UTILITIES AND CONNECTION TO EXISTING UTILITIES AS SHOWN ON PLANS.

SITE CLEARING AND DEMOLITION

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED AND PROPER PERMITS OBTAINED.

KEEP ALL AREAS WITHIN THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO PREVENT DUST FROM RISING DUE TO CONSTRUCTION. COMPLY WITH ALL ANTI-POLLUTION ORDINANCES.

THIS SUBCONTRACTOR SHALL SEE TO IT THAT TRUCKS LEAVING THE SITE SHALL DO SO IN SUCH A MANNER THAT MUD AND EARTH WILL NOT BE DEPOSITED ON ADJACENT STREET PAVEMENTS. ANY MUD OR EARTH DEPOSITED ON STREET PAVEMENTS SHALL BE PROMPTLY REMOVED BY THIS SUBCONTRACTOR.

ALL CLEARING SHALL BE PERFORMED IN A MANNER SUCH AS TO PREVENT ANY WASH-OFF OF SOILS FROM THE SITE INTO STREAMS AND/OR STORM DRAINAGE SYSTEMS. APPROPRIATE SEDIMENTATION PONDS, DIKES, COLLARS, AND FILTER MEDIA SHALL BE EMPLOYED TO INSURE COMPLIANCE WITH THESE REQUIREMENTS. WHERE A SPECIFIC STATUTE GOVERNS THESE PROCEDURES, SUCH STATUTE SHALL BE COMPLIED WITH IN IT'S ENTIRETY.

TOPSOIL IS DEFINED AS FRIABLE CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF NOT LESS THAN 4". SATISFACTORY TOPSOIL IS REASONABLE FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER 2" IN DIAMETER, AND WITHOUT WEEDS, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.

STRIP TOPSOIL TO WHATEVER DEPTHS ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OTHER OBJECTIONABLE MATERIAL.

REMOVE HEAVY GROWTHS OF GRASS FROM AREAS BEFORE STRIPPING. WHERE TREES ARE INDICATED TO BE LEFT STANDING, STOP TOPSOIL STRIPPING A SUFFICIENT DISTANCE TO PREVENT DAMAGE TO MAIN ROOT SYSTEM. DISPOSE OF UNSUITABLE OR EXCESS TOPSOIL SAME AS WASTE MATERIAL, HEREIN SPECIFIED.

BURNING WILL NOT BE PERMITTED ON PROJECT SITE.

ALL EXISTING STRUCTURES, UTILITIES AND OTHER OBSTACLES IN CONFLICT WITH THE PROPOSED FACILITY SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. SEE OTHER UTILITY AND MISCELLANEOUS NOTES CONCERNING REMOVAL.

ALLOW TESTING SERVICES TO INSPECT AND APPROVE SUBGRADE AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED.

ATTENTION IS CALLED TO THE FACT THAT THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO DETERMINATIONS OF ALL EXISTING UTILITIES OR OBSTRUCTIONS WHICH HE MAY ENCOUNTER DURING CONSTRUCTION.

AFTER LOCATION OF UTILITIES BY THE APPROPRIATE UTILITY COMPANY, IT IS THE CONTRACTOR'S LIABILITY TO PROTECT ALL SUCH UTILITY LINES, INCLUDING SERVICE LINES AND APPURTENANCES, AND TO REPLACE AT HIS OWN EXPENSE ANY WHICH MAY BE DAMAGED BY THE CONTRACTOR'S EQUIPMENT OR FORCES DURING CONSTRUCTION.

TO PROTECT PERSON FROM INJURY AND TO AVOID PROPERTY DAMAGE, ADEQUATE BARRICADES, CONSTRUCTION SIGNS, TORCHES, RED LANTERNS AND GUARDS AS REQUIRED SHALL BE PLACED AND MAINTAINED DURING THE PROGRESS OF THE CONSTRUCTION WORK.

ADEQUATE PROVISION SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION, AND THE STRUCTURES WHICH MAY HAVE BEEN DISTURBED SHALL BE SATISFACTORILY RESTORED BY THE CONTRACTOR.

EXCAVATING, FILLING AND GRADING

ALL ON AND OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

ALL ON AND OFF-SITE PREPARATION WORK FOR EXCAVATION, PIPE BED PREPARATION AND BACKFILL FOR UNDERGROUND UTILITIES.

COMPACTION OF BACKFILL.

REMOVAL OF ALL EXCESS OR UNUSABLE MATERIAL.

APPROVAL REQUIRED: ALL FILL MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE GEOTECHNICAL ENGINEER.

ALL ON-SITE FILL MATERIAL SHALL BE SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATTER (LESS THAN 3% BY IGNITION), AND OTHER DELETERIOUS SUBSTANCE. IT SHALL CONTAIN NO ROCKS OR LUMPS OVER SIX (6) INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS BY DRY WEIGHT, SHALL BE LARGER THAN 2 AND 1/2 INCHES IN GREATEST DIMENSION.

ALL IMPORTED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF ON-SITE FILL MATERIAL AND SHALL IN ADDITION, BE PREDOMINANTLY GRANULAR WITH A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES AND A PLASTICITY INDEX OF 12 OR LESS.

ALL ON-SITE FILL MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF ARTICLE ABOVE.

ALL IMPORTED COHESIONLESS MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL BE FREE FROM ORGANIC SUBSTANCE (LESS THAN 3% BY IGNITION) AND OTHER DELETERIOUS MATTER, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

PRIOR TO ALL WORK OF THIS SECTION, CONTRACTOR IS TO BECOME THOROUGHLY FAMILIAR WITH THE SITE, THE SITE CONDITIONS, AND ALL PORTIONS OF THE WORK, FALLING WITHIN THIS SECTION.

DO NOT ALLOW OR CAUSE ANY OF THE WORK PERFORMED OR INSTALLED TO BE COVERED UP OR ENCLOSED BY WORK OF THIS SECTION PRIOR TO ALL REQUIRED INSPECTIONS, TESTS AND APPROVALS.

AFTER THE WORK HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO RESTORE THE WORK TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF UNCOVERING, ALL AT NO ADDITIONAL COST TO THE OWNER.

FOR SETTING AND ESTABLISHING FINISH ELEVATIONS AND LINES, SECURE THE SERVICES OF A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR ACCEPTABLE TO THE OWNER, CAREFULLY PRESERVE ALL DATA AND ALL MONUMENTS SET BY THE CIVIL ENGINEER OR LAND SURVEYOR, AND , IF DISPLACE OR LOST, IMMEDIATELY REPLACE TO THE APPROVAL OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC., NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL EARTHWORK AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING; THIS WORK CONSISTS OF GRADING IN ORDER TO ACHIEVE FINISHED ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS.

ALL GRADED SURFACES SHALL BE SMOOTH AND UNIFORM, WITHOUT ABRUPT CHANGES IN SLOPE OR GRADE. AREAS TO BE COVERED WITH PAVING SHALL BE FINE GRADED TO THE REQUIRED ELEVATIONS AND SLOPES. FINISHED SURFACES IN ALL OTHER AREAS MAY VARY UP TO 0.1 FEET FROM THE REQUIRED ELEVATIONS.

PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

EMPLOY, AT CONTRACTOR'S EXPENSE, DESIGN LABORATORY TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. SUBMIT FOLLOWING REPORTS DIRECTLY TO ENGINEER AND COPIES TO CITY ENGINEERING DEPARTMENT FROM THE TESTING SERVICES, WITH COPY TO THE CONTRACTOR.

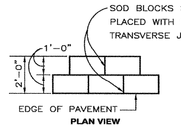
TEST REPORTS ON BORROW MATERIAL.

FIELD DENSITY TEST REPORTS.

ONE OPTIMUM MOISTURE-MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL ENCOUNTERED.

WHERE REQUIRED, THE SITE SHALL BE EXCAVATED TO THE GRADES COURSE. EXCAVATED MATERIAL THAT IS SUITABLE SHALL BE USED IN THE FILL SECTIONS OF THE SITE. NO SUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE. ANY EXCESS SUITABLE MATERIAL SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

EXCAVATION FOR MANHOLES, CATCH BASINS, AND OTHER ACCESSORIES SHALL BE SUFFICIENT TO LEAVE AT LEAST 12 INCHES IN THE CLEAR BETWEEN THEIR OUTER SURFACES AND THE EMBANKMENT OF TIMBER THAT MAY BE USED TO PROTECT THEM.



THIS WORK CONSISTS OF SODDING AREAS CLEARED DURING CONSTRUCTION AND NOT PAVED, OR AS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. ALL MATERIAL AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 570, 571, 573, OR 575 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST REVISION.

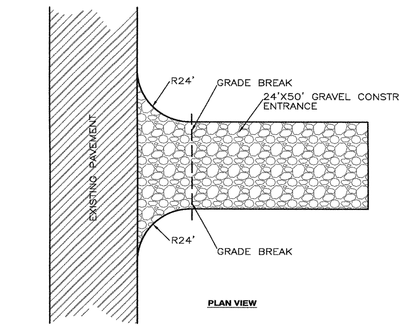
USE ST. AUGUSTINE GRASS (FLORATAM) SOD. THE SOD SHALL BE LIVE, FRESH AND UNINJURED AT HE TIME OF PLANTING AND SHALL HAVE A THICK MAT OF ROOTS WITH ENOUGH ADHERING SOIL TO ASSURE GROWTH. APPLY SOD WITHIN 72 HOURS OF CUTTING OR STACKING TO KEEP MOIST.

PREPARE THE GROUND BY LOOSENING THE SOIL. PLACE SOD ON THE PREPARED SOIL WITH EDGES IN CLOSE CONTACT. STAGGER THE SOD PIECES SO AS TO AVOID A CONTINUOUS DOWNHILL SEAM. TAMP THE OUTER EDGES OF THE SODDED AREA TO PRODUCE A SMOOTH CONTOUR.

KEEP SOD CONTINUOUSLY MOIST TO A DEPTH BELOW THE ROOT ZONE FOR THREE WEEKS AFTER PLACEMENT.

SODDING DETAIL

NOT TO SCALE

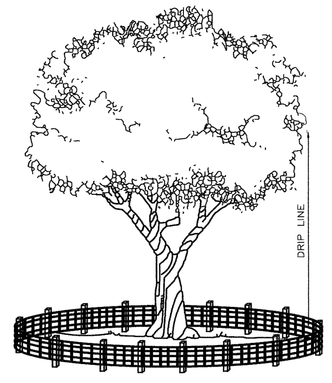


NOTE:

1. GRAVEL CONSTRUCTION ENTRANCE SHALL BE 24' WIDE AND 50' LONG.
2. CONSTRUCTION ENTRANCE SHALL BE 6" OF #57 STONE OVERLAYING FILTER FABRIC.
3. ALGEBRAIC DIFFERENCE OF SLOPE FROM EXISTING ROAD AND SLOPE FROM EDGE OF PAVEMENT TO GRADEBREAK SHALL NOT EXCEED 12%.
4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS.
5. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.

CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



CORD FENCE - POSTS WITH A MINIMUM SIZE 2 INCHES SQUARE OR 2 INCHES IN DIAMETER SET SECURELY IN GROUND AND PROTRUDING AT LEAST 4 FEET ABOVE THE GROUND SHALL BE PLACED AT THE LIMITS OF CLEARING WITH ORANGE CONSTRUCTION MESH FENCING RUNNING BETWEEN POSTS.

TREE BARRIER DETAIL

NOT TO SCALE



SEEDING RATE ZONES

TYPE OF SEED	SEEDING RATES (LBS/AC)							
	ZONE I				ZONE II			
	COASTAL		INLAND		COASTAL		INLAND	
	MAR. TO NOV.	NOV. TO MAR.	MAR. TO OCT.	OCT. TO MAR.	FEB. TO DEC.	DEC. TO FEB.	FEB. TO DEC.	DEC. TO FEB.
PERMANENT GRASS								
UNHULLED BERMUDA	15	15	10	15	15	15	10	15
BAHIA ARGENTINA OR PENSACOLA			30	30			30	30
QUICK GROWING								
BROWN TOP MILLET	20		20		20		20	
ANNUAL RYE GRASS		20		20		20		20
TOTAL POUNDS PER ACRE	35	35	60	65	35	35	60	65

NOTE: THE SEEDING RATES SHOWN IN THIS TABLE APPLY ONLY WHEN SEED IS SPREAD BY AN APPROVED MECHANICAL SPREADER MEETING THE REQUIREMENTS OF SECTION 570 AND 577 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES

1. SPECIAL ATTENTION IS TO BE DIRECTED TO THE CONSTRUCTION OF THE REQUIRED 1" DROP-OFF AT EDGE OF PAVEMENT.
2. FERTILIZE ENTIRE UNPAVED SHOULDER AND FRONT SLOPE TO TOE OF SLOPE OR BOTTOM OF DITCH.
3. TOPSOIL OBTAINED FROM BORROW PITS OR OTHER SOURCES MAY BE USED IN LIEU OF EXCAVATED TURF AND TOPSOIL WHEN ECONOMICALLY FEASIBLE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUBSTITUTING TOPSOIL FOR EXCAVATED TURF OR TOPSOIL.

TOPSOIL: IF THE QUANTITY OF EXISTING STORED OR EXCAVATED TOPSOIL IS INADEQUATE FOR PLANTING, SUFFICIENT ADDITIONAL TOPSOIL SHALL BE FURNISHED. TOPSOIL FURNISHED SHALL BE A NATURAL, FERTILE, FRIABLE SOIL, POSSESSING CHARACTERISTICS OF REPRESENTATIVE PRODUCTIVE SOILS IN THE VICINITY. IT SHALL BE OBTAINED FROM NATURALLY WELL-DRAINED AREAS.

TOPSOIL SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND FREE FROM JOHNSON GRASS (SORGHUM HALEPENSE), NUT GRASS (CYPERUS ROTUNDUS) AND OBJECTIONABLE WEEDS AND TOXIC SUBSTANCES.

GROUND LIMESTONE (DOLOMITE) CONTAINING NOT LESS THAN 85 PERCENT OF TOTAL CARBONATES, AND SHALL BE GROUND TO SUCH A FINENESS THAT 50 PERCENT WILL PASS A 100-MESH SIEVE AND 90 PERCENT WILL PASS A 20-MESH SIEVE.

16-16-16 FORMULATION OF WHICH 60 PERCENT OF THE NITROGEN IS IN THE UREA-FORMALDEHYDE FORM AND SHALL CONFORM TO THE APPLICABLE STATE FERTILIZER LAWS. IT SHALL BE GRANULATED SO THAT 80 PERCENT IS HELD ON A 16-MESH SCREEN, UNIFORM IN COMPOSITION, DRY AND FREE-FLOWING. MULCH: CLEAN HAY OR FREE STRAW MULCH.

AREAS TO BE GRASSED SHALL BE GRADED TO REMOVE DEPRESSIONS, UNDULATIONS, AND IRREGULARITIES IN THE SURFACE BEFORE GRASSING.

PLACING TOPSOIL: AREAS TO BE GRASSED SHALL HAVE A MINIMUM TOPSOIL OVER OF TWO INCHES. TOPSOIL SHALL NOT BE PLACED WHEN THE SUBGRADE IS EXCESSIVELY WET, EXTREMELY DRY OR IN A CONDITION OTHERWISE DETRIMENTAL TO THE PROPOSED PLANTING OR PROPER GRADING

TILLAGE: THE AREA TO BE GRASSED SHALL BE THOROUGHLY TILLED TO A DEPTH OF FOUR INCHES USING A PLOW AND DISC HARROW OR ROTARY TILLING MACHINERY UNTIL A SUITABLE BED HAS BEEN PREPARED AND NO CLODS OR CLUMPS REMAIN LARGER THAN 1-1/2 INCHES IN DIAMETER.

APPLICATION OF LIME: THE PH OF THE SOIL SHALL BE DETERMINED. IF THE PH IS BELOW 5.0, SUFFICIENT LIME SHALL BE ADDED TO PROVIDE A PH BETWEEN 5.5 AND 6.5. THE LIME SHALL BE THOROUGHLY INCORPORATED INTO THE TOP THREE TO FOUR INCHES OF THE SOIL. LIME AND FERTILIZER MAY BE APPLIED IN ONE OPERATION.

APPLICATION OF FERTILIZER: FERTILIZER SHALL BE APPLIED AT THE RATE OF 6 POUNDS PER 1,000 SQUARE FEET AND SHALL BE THOROUGHLY INCORPORATED INTO THE TOP THREE TO FOUR INCHES OF SOIL.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AS SPECIFIED HEREIN. IMMEDIATELY BEFORE SEEDS ARE SOWN AND AFTER FERTILIZER AND LIME ARE APPLIED, THE GROUND SHALL BE SCARIFIED AS NECESSARY AND SHALL BE RAKED UNTIL HE SURFACE IS SMOOTH, FRIABLE, AND OF UNIFORMLY FINE TEXTURE. AREAS TO BE GRASSED SHALL BE SEEDED EVENLY WITH A MECHANICAL SPREADER, RAKED LIGHTLY, ROLLED WITH A 200-POUND ROLLER, AND WATERED WITH A FINE SPRAY.

SEEDS SHALL BE APPLIED AT THE FOLLOWING RATE:

SEEDS RATE OF APPLICATION

BERMUDA 6 LBS./1000 SQ.FT.

SEEDED AREAS SHALL BE MULCHED AT THE RATE OF NOT LESS THAN 1-1/2" LOOSE MEASUREMENT OVER ALL SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT. MULCH SHALL BE CUT INTO THE SOIL WITH EQUIPMENT CAPABLE OF CUTTING THE MULCH UNIFORMLY INTO THE SOIL. MULCHING SHALL BE DONE WITHIN 24 OURS OF THE TIME SEEDING IS COMPLETED.

AFTER SEEDING AND MULCHING, A CULTIPACKER, TRAFFIC ROLLER, OR OTHER SUITABLE EQUIPMENT SHALL BE USED FOR ROLLING THE DRASSED AREAS. AREAS SHALL THEN BE WATERED WITHIN A FINE SPRAY.

ALL AREAS TO BE GRASSED SHALL BE PROTECTED AGAINST EROSION AT ALL TIMES. FOR PROTECTION DURING WINTER MONTHS (NOVEMBER 1ST THRU MARCH 31ST) ITALIAN RYE GRASS SHALL BE PLANTED AT A RATE OF FOUR POUNDS PER 1,000 SQUARE FEET ON ALL AREAS WHICH ARE NOT PROTECTED BY PERMANENT GRASS.

SEEDING DETAIL

NOT TO SCALE

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PHASE:		DRAWN	CHECKED	DATE
SCHEMATIC DESIGN		T.A.	ERB	JMS	03-20-07
DESIGN DEVELOPMENT		T.A.	ERB	JMS	06-06-07
DD OWNER REVIEW		T.A.	ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS		T.A.	ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

McNEIL-CARROLL ENGINEERING, INC.
Professional Engineering Consultants
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

CONSTRUCTION DETAILS

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 49303

Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988

Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C11

SITE DRAINAGE

ALL OFF-SITE AND ON-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

EXCAVATION, BEDDING, FILTER MATERIAL AND BACKFILL FOR ALL STORM SEWER, SUBSURFACE DRAINS AND DRAINAGE STRUCTURES.

COMPLETE INSTALLATION OF ALL STORM SEWERS, SUBSURFACE DRAINS, CATCH BASINS, JUNCTION BOXES, MANHOLES, ETC., INCLUDING ALL RELATED FITTINGS, JOINTS COVERS, GRATES, FRAMES, RUNGS, ETC.

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL OF THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED.

POLYVINYL CHLORIDE (PVC), FOR PIPE UP TO AND INCLUDING TEN INCHES (10") IN DIAMETER, SHALL CONFORM TO ASTM D3034 SDR 35 WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3212.

REINFORCED CONCRETE PIPE, FOR PIPE TWELVE INCHES (12"D) IN DIAMETER AND UP, SHALL CONFORM TO ASTM C-76, CLASS V OR AASHO M-170 WITH BELL AND SPIGOT OR TONGUE AND GROOVE CONFIGURATION JOINT CONFORMING TO ASTM C-443.

MANHOLES, CATCH BASINS, ETC. SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:

REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C478 OR AASHO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS.

BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM.

CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS CONFORMING TO ASTM C-139.

IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING.

SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THE MAY BE PLAINLY VISIBLE.

CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC. NEENAH FOUNDRY COMPANY, VULCAN FOUNDRY COMPANY OR EQUAL.

MANHOLE STEPS FOR BRICK OR CONCRETE MASONRY STRUCTURES SHALL BE CAST IRON ASPHALT COATED, NEENAH FOUNDRY COMPANY "R-1980-E" OR EQUAL.

CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING:

PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II.

FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10 TO 30% PASSING NO. 50 SIEVE. HYDRATED LIME SHALL CONFORM TO ASTM C-207, TYPE S. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.

ALL MATERIAL USED FOR CONCRETE AND THE DESIGN OF ALL CONCRETE MIXES SHALL CONFORM WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 211.1-81).

ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

JOINT SEALANT SHALL BE HOT LAID BITUMINOUS SEALER.

RIPRAP SHALL BE SOUND, TOUGH DURABLE ROCK OR BROKEN CONCRETE AS APPROVED BY THE GEOTECHNICAL ENGINEER. RIPRAP SHALL BE AT LEAST EIGHT INCH (8") IN ONE DIMENSION AN SHALL HAVE A VOLUME OF NOT LESS THAN .01/3 CUBIC FOOT. SMALLER PIECES PERMITTED FOR FILLING VOIDS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM DESIGNATION A185 FOR SMOOTH WIRE AND ASTM A497 FOR DEFORMED WIRE.

FORMS FOR FOUNDATIONS AND OTHER CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE OF SUFFICIENT STRENGTH TO PREVENT DEFORMATION UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS PERMIT.

ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318-77. WELDED WIRE MESH SHALL BE LAPPED 6-INCHES AT ALL EDGES.

THE MIXING, PLACING, CURING AND FINISHING OF CONCRETE SHALL COMPLY WITH ACI 304 AND ACI 318. ALL EXPOSED SURFACES SHALL BE GIVEN A HARD STEEL TROWELED FINISH WITH NOT TROWEL MARKS SHOWING. ALL CONCRETE SHALL BE 2500 PSI MINIMUM STRENGTH. ALL CONCRETE SHALL BE CURED BY COASTING WITH A CLEAR CURING MIX OF CEMENT CONFORMING TO ASTM C-309, OR BY KEEPING IT WET FOR AT LEAST SIX DAYS AFTER POURING. AFTER THE FORMS ARE STRIPPED, ALL EXPOSED CONCRETE SURFACES SHALL BE POINTED AS NEEDED AND RUBBED TO A UNIFORM FINISH.

CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD.

CONCRETE FILL BELOW GRADE FOR PIPE CRADLES ETC. MAY BE 2500 PSI AT 28 DAYS.

CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% + 1%. ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.

READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.

CEMENT MORTAR SHALL BE AS SPECIFIED HEREINAFTER. USE METHODS OF MIXING MORTAR. MATERIALS CAN BE CONTROLLED AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN SATISFACTORY WORKABILITY. RETEMPERING OF MORTAR IS NOT PERMITTED.

MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME.
MORTAR FOR PARGING SHALL CONSISTS OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND.

MORTAR FOR GROUTING OF RIPRAP SHALL CONSIST OF ONE PART PORTLAND CEMENT AND THREE PARTS SAND.

STORMWATER SEWERS:

STORM SEWERS SHALL BE INSTALLED IN LOCATIONS AND OF SIZES INDICATED ON DRAWING.

LAY PIPE, EMBED IT FIRMLY TO REQUIRED LINE AND GRADE WITH BELLS OF GROOVE END UP-GRADE. FIT ENDS TOGETHER, EXCAVATE BELL HOLES SO THAT SEWER WILL HAVE SMOOTH AND UNIFORM INVERT THROUGHOUT ITS LENGTH.

CORRUGATED METAL PIPE SHALL BE PLACED ON A FLAT BOTTOM TRENCH WITH HAUNCHES SOLIDLY SUPPORTED BY TAMPED BEDDING MATERIAL.

WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CONCRETE CRADLES. DEPOSIT CONCRETE FULL WIDTH OF TRENCH 4" DEEP MINIMUM TO BOTTOM OF PIPE. REINFORCE CONTINUOUSLY WITH TWO (2) NO. 4 REINFORCING BARS. BEFORE CONCRETE IS SET, EMBED PIPE EVENLY, DEPOSIT REMAINDER OF CONCRETE TO CENTERLINE OF PIPE AND TAMP IN A MANNER TO AVOID DISTURBING PIPE.

WHERE STORM SEWER CROSSES A SANITARY SEWER OR WATER LINE AND THE STORM SEWER IS WITHIN ONE AND A HALF (1-1/2) FEET OF THE SANITARY SEWER PIPE OR WATER LINE, THE INTERSECTION OF THE PIPE OR LINE SHALL BE EMBEDDED IN CONCRETE FOR A DISTANCE OF FIVE FEET (5') EACH WAY FROM CENTERLINE OF INTERSECTION.

PROVIDE POURED CONCRETE FOUNDATIONS FOR DRAINAGE STRUCTURES. PRECAST CONCRETE BASE MAY BE USED WHERE APPROVED BY THE GEOTECHNICAL ENGINEER.

PRECAST CONCRETE BASE MUST BE SET LEVEL ON SAND CUSHION OF NOT LESS THAN 2" NOR MORE THAN 4".

MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY OR PRECAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.

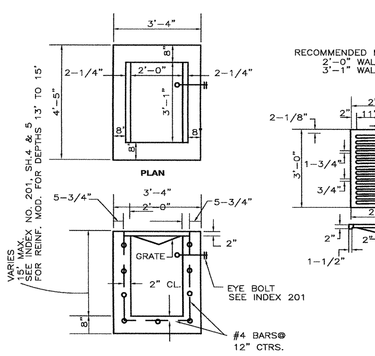
RIPRAP SHALL BE LAID OVER FILTER FABRIC FROM THE BOTTOM UPWARD, STONES SHALL BE LAID BY HAND WITH EIGHT (8") INCH MINIMUM DIMENSION PERPENDICULAR TO GRADE WITH WELL BROKEN JOINTS, COMPACTED AS IT GOES, TRUE TO LINE. ALL JOINTS SHALL BE FILLED WITH CEMENT MORTAR. SURFACE OF STONE TO BE EXPOSED. CLEAN JOINTS WITH SIRE BRUSH.

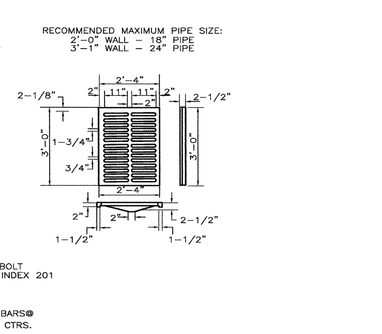
BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN EIGHT INCH (8") MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS.

INFILTRATION OF THE STORM DRAINAGE SYSTEM SHALL NOT EXCEED 0.50 GALLONS PER INCH OF INTERNAL PIPE DIAMETER PER ONE HUNDRED FEET (100') OF PIPELINE PER HOUR WITH A MAXIMUM HYDROSTATIC HEAD AT THE CENTER LINE OF THE PIPE OF TWENTY FIVE FEET (25'), OR AS REQUIRED BY GOVERNING CODE AUTHORITIES.

CATCH BASIN FRAMES AND GRATINGS: ASPHALT COATED GREY CAST IRON, ANSI/ASTM A 48, CLASS 30 B.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO COMPLETE DRAINAGE.



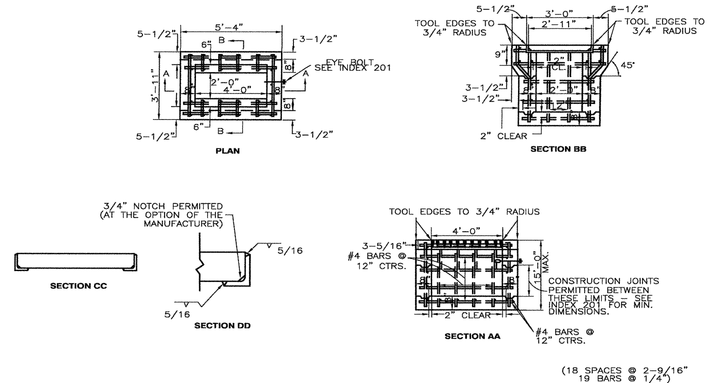


GENERAL NOTES

1. THESE INLETS ARE SUITABLE FOR BICYCLE AND PEDESTRIAN AREAS AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO INFREQUENT TRAFFIC LOADINGS BUT ARE NOT TO BE PLACED IN AREAS SUBJECT TO ANY HEAVY WHEEL LOADS.
2. INLETS SUJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN ROADWAY CLEAR ZONES AND IN AREAS ACCESSIBLE TO PEDESTRIANS SHALL HAVE TRAVERSABLE SLOTS. THE TRAVERSABLE SLOT MODIFICATION IS NOT ADAPTABLE TO INLET TYPE H. SLOTS MAY BE CONSTRUCTED AT EITHER OR BOTH ENDS AS SHOWN ON PLANS.
3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH NON-TRAVERSABLE SLOTS. SUBJECT TO THE SELECTION DESCRIBED ABOVE, WHEN ALTERNATE G GRATE IS SPECIFIED IN THE PLANS, EITHER THE STEEL GRATE, HOT DIPPED GALVANIZED AFTER FABRICATION, OR THE CAST IRON GRATE MAY BE USED, UNLESS THE PLANS STIPULATE THE PARTICULAR TYPE.
4. RECOMMENDED MAXIMUM PIPE SIZES SHOWN ARE FOR CONCRETE PIPE. PIPE SIZES LARGER THAN THOSE RECOMMENDED MUST BE CHECKED FOR FIT.
5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO CHAMFERED 3/4".
6. PAVEMENT TO BE USED ON INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVERSABLE SLOTS ONLY WHEN CALLED FOR IN THE PLANS; BUT REQUIRED ON ALL TRAVERSABLE SLOT INLETS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR INLETS. QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
7. TRAVERSABLE SLOTS CONSTRUCTED IN EXISTING INLETS SHALL BE PAID FOR AS INLETS PARTIAL; AND SHALL INCLUDE THE COST FOR SLOT OPENINGS, PAVING AND ANY REQUIRED REPLACEMENT GRATES.
8. SODDING TO BE USED ON ALL INLETS NOT LOCATED IN PAVED AREAS AND PAID FOR UNDER CONTRACT UNIT PRICE FOR SODDING, SY.
9. FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT TYPE "C" INLET DETAIL

NOT TO SCALE



INLET	PAVT CY*	SOD SY
G	0.43	10
F	0.24	9

INLET	SOD SY
G	6
F	7

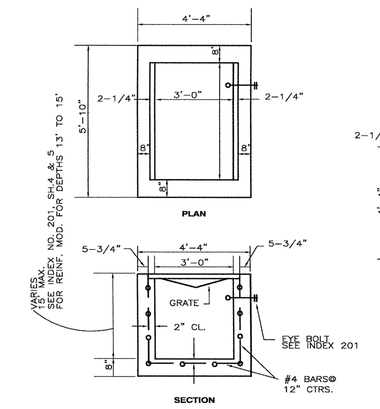
NOTES: 1. PAVEMENT AND/OR SOD TO BE USED ONLY WHERE CALLED FOR IN THE PLANS.
2. COST OF PAVING TO BE INCLUDED IN COST OF INLET.

TYPE F

GENERAL NOTES
1. THESE INLETS ARE DESIGNED FOR USE IN DITCHES, MEDIANS, PAVEMENT AREAS, OR OTHER AREAS SUBJECT TO HEAVY WHEEL LOADS WHERE DEBRIS IS MINIMAL AND IS SUBJECT TO PEDESTRIAN AND/OR BICYCLE TRAFFIC.

FDOT DITCH BOTTOM INLETS TYPE F

NOT TO SCALE

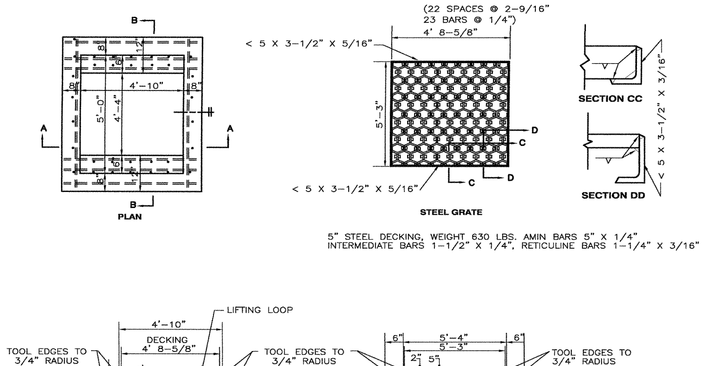


GENERAL NOTES

1. THESE INLETS ARE SUITABLE FOR BICYCLE AND PEDESTRIAN AREAS AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO INFREQUENT TRAFFIC LOADINGS BUT ARE NOT TO BE PLACED IN AREAS SUBJECT TO ANY HEAVY WHEEL LOADS.
2. INLETS SUJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN ROADWAY CLEAR ZONES AND IN AREAS ACCESSIBLE TO PEDESTRIANS SHALL HAVE TRAVERSABLE SLOTS. THE TRAVERSABLE SLOT MODIFICATION IS NOT ADAPTABLE TO INLET TYPE H. SLOTS MAY BE CONSTRUCTED AT EITHER OR BOTH ENDS AS SHOWN ON PLANS.
3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH NON-TRAVERSABLE SLOTS. SUBJECT TO THE SELECTION DESCRIBED ABOVE, WHEN ALTERNATE G GRATE IS SPECIFIED IN THE PLANS, EITHER THE STEEL GRATE, HOT DIPPED GALVANIZED AFTER FABRICATION, OR THE CAST IRON GRATE MAY BE USED, UNLESS THE PLANS STIPULATE THE PARTICULAR TYPE.
4. RECOMMENDED MAXIMUM PIPE SIZES SHOWN ARE FOR CONCRETE PIPE. PIPE SIZES LARGER THAN THOSE RECOMMENDED MUST BE CHECKED FOR FIT.
5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO CHAMFERED 3/4".
6. PAVEMENT TO BE USED ON INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVERSABLE SLOTS ONLY WHEN CALLED FOR IN THE PLANS; BUT REQUIRED ON ALL TRAVERSABLE SLOT INLETS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR INLETS. QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
7. TRAVERSABLE SLOTS CONSTRUCTED IN EXISTING INLETS SHALL BE PAID FOR AS INLETS PARTIAL; AND SHALL INCLUDE THE COST FOR SLOT OPENINGS, PAVING AND ANY REQUIRED REPLACEMENT GRATES.
8. SODDING TO BE USED ON ALL INLETS NOT LOCATED IN PAVED AREAS AND PAID FOR UNDER CONTRACT UNIT PRICE FOR SODDING, SY.
9. FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT TYPE E INLET DETAIL

NOT TO SCALE



TYPE G

GENERAL NOTES
1. THESE INLETS ARE DESIGNED FOR USE IN DITCHES, MEDIANS, PAVEMENT AREAS, OR OTHER AREAS SUBJECT TO HEAVY WHEEL LOADS WHERE DEBRIS IS MINIMAL AND IS SUBJECT TO PEDESTRIAN AND/OR BICYCLE TRAFFIC.
2. WHEN ALTERNATE C GRATE IS SPECIFIED IN PLANS, THE GRATE IS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. THESE INLETS MAY BE USED WITH ALT. B STRUCTURE BOTTOMS, INDEX 200. THE INLET AND BOTTOM COMBINATIONS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR INLETS (DT BOT)(TYPE F (OR G)) (J BOT, DEPTH),EA.

FDOT DITCH BOTTOM INLET TYPE G

NOT TO SCALE

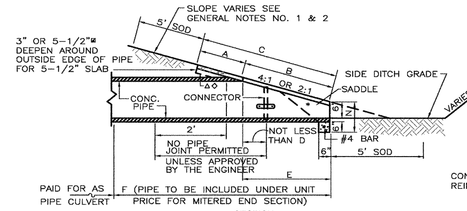
	0	S	A	B	C	E	F	θ	"J" SINGLE	"J" DOUBLE	"J" TRIPLE	"J" QUAD.	5-1/2" CONCRETE SLAB (SQ. FT.) SINGLE	DOUBLE	TRIPLE	QUAD.	SIDEWALK (SQ. YDS.) SINGLE	DOUBLE	TRIPLE	QUAD.
									PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE	PIPE
	18"	2'-0"	1.83'	3.18'	4.10'	2.08'	8"	1.25°	4.83'	7.17'	9.79'	12.07'	1.16'	2.28	3.77	5.28	21	34	57	80
	18"	2'-10"	1.83'	3.74'	4.71'	2.08'	8"	1.47°	4.83'	7.17'	10.00	12.42'	1.27'	2.44	3.83	5.67	23	38	59	91
	24"	2'-0"	2.02'	3.83'	5.01'	2.58'	8"	1.25°	5.92'	8.92	12.92	16.79'	1.20'	2.53	4.05	6.13	24	39	67	98
	30"	2'-0"	2.15'	4.02'	7.13'	4.54'	8"	2.00°	8.00'	12.33'	14.00	18.92'	1.28'	2.66	4.28	6.59	26	41	65	92
	30"	2'-10"	2.15'	4.58'	8.33'	5.54'	8"	2.24°	8.67'	11.75'	15.92	21.67'	1.33'	2.81	5.01	7.38	28	46	74	106
	42"	2'-0"	2.28'	4.21'	8.92'	5.58'	10"	2.49°	7.25'	13.25'	19.25	25.25'	1.29'	2.81	5.75	8.45	33	57	93	130
	42"	2'-10"	2.28'	4.77'	9.53'	6.58'	10"	2.83°	8.67'	13.08'	19.50	25.92'	1.34'	2.96	6.01	8.88	35	59	97	141
	54"	2'-0"	2.42'	4.60'	11.00'	7.62'	12"	2.85°	7.92'	14.92'	21.92'	28.92'	1.41'	3.13	6.85	10.06	39	66	107	147
	54"	2'-10"	2.42'	5.16'	11.59'	8.62'	12"	3.18°	9.50'	15.75'	22.83'	29.92'	1.46'	3.28	6.93	10.18	41	68	111	154
	72"	2'-0"	2.82'	5.60'	14.92'	10.54'	14"	3.39°	10.17'	20.17'	30.17'	40.17'	1.59'	3.64	8.51	13.13	52	83	134	185
	72"	2'-10"	2.82'	6.16'	15.51'	11.54'	14"	3.79°	10.17'	20.17'	30.17'	40.17'	1.64'	3.79	8.59	13.25	54	85	138	191

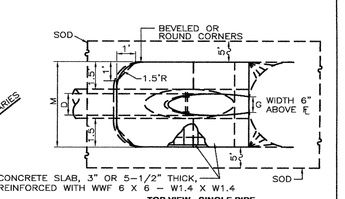
SEE SIDEWALK NOTE NO. 1 SEE INDEX 0 & 10 FOR 5" SLAB QUANTITIES

△ 8.44" x 8.38" DIMENSIONS PERMITTED TO ALLOW USE OF 8" STANDARD PIPE LENGTHS.

○ 10.40"@ 10.32" DIMENSIONS PERMITTED TO ALLOW USE OF 12" STANDARD PIPE LENGTHS.

△○ CONCRETE SLAB SHALL BE SLOPED TO FORM MEDIAN ACROSS THROAT OF INLET. SEE SECTION BELOW.

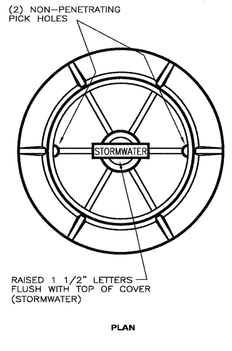




* SLOPE: 4:1 METER: TO ℄ PIPE FOR PIPES 18" AND SMALLER
2:1 FOR PIPES 24" AND LARGER
2:1 METER: TO ℄ PIPE FOR PIPES 18" AND SMALLER.
1:1 FOR PIPES 24" AND LARGER.

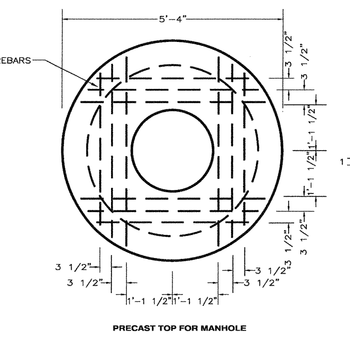
FDOT MITERED END DETAIL

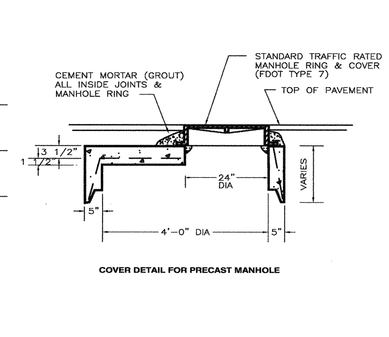
NOT TO SCALE



NOTE: THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.

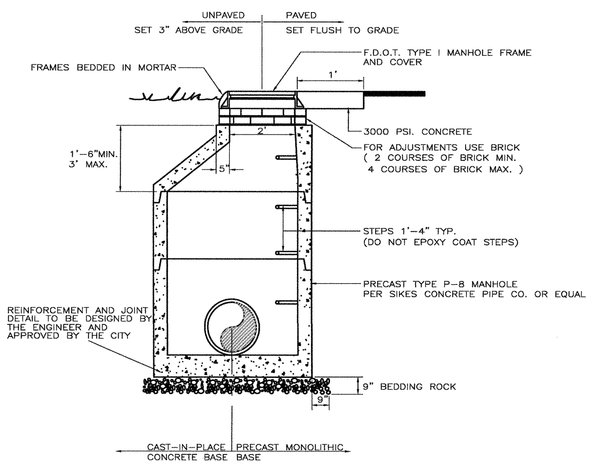
STANDARD FDOT TRAFFIC RATED MANHOLE FRAME AND COVER
(AMSI/ASTM A 48, CLASS 30 B)





STORMWATER MANHOLE FRAME AND COVER (TYPE 7)

NOT TO SCALE



NOTES:

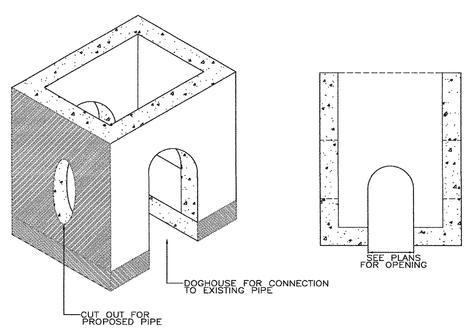
1. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE.

MANHOLE FRAMES AND COVERS: GREY CAST IRON, ANSI/ASTM A48, CLASS 30B. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVES AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING. COMPLY WITH REQUIREMENTS OF FS RR-F-621 FOR TYPE AND STYLE INDICATED.

MANHOLE STEPS: ASPHALT COATED GREY CAST IRON, ANSI/ASTM A 48, CLASS 30 B, INTEGRALLY CAST INTO MANHOLE SIDEWALLS, UNLESS OTHERWISE INDICATED.

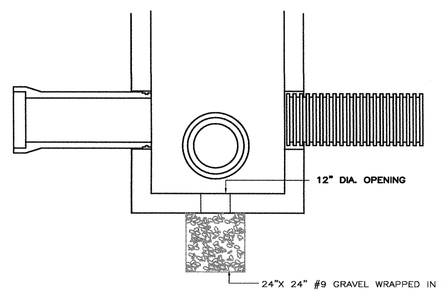
TYPE "P" JUNCTION BOX

NOT TO SCALE



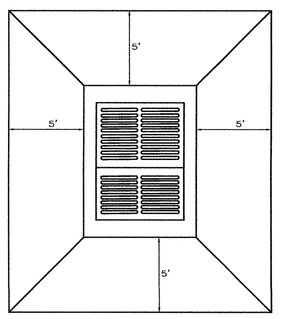
INLET BOTTOM WITH DOGHOUSE

NOT TO SCALE



OPEN BOTTOM INLET DETAIL

NOT TO SCALE



CONCRETE APRON DETAIL

NOT TO SCALE

NO.	DATE	BY	REVISIONS

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PROFESSIONAL ENGINEER FL LIC # 48903	PROFESSIONAL ENGINEER FL LIC # 57988	PROFESSIONAL ENGINEER FL LIC # 61759

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-09-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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Commission Number: 06318

CONSULTANTS:

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

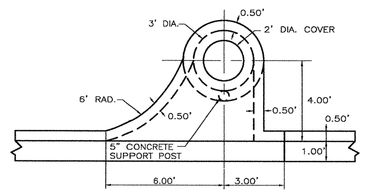
SHEET TITLE:

CONSTRUCTION DETAILS

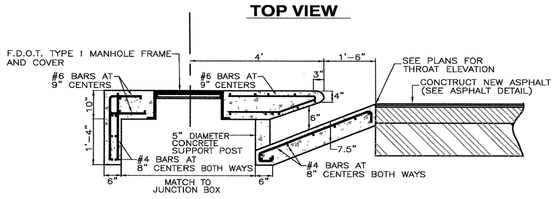
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PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C12



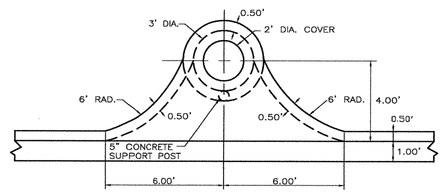
TOP VIEW



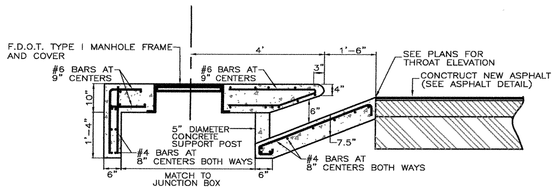
NOTES:
1. THE FINISHED GRADE AND SLOPE OF THE INLET TOPS ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF THE PROPOSED SIDEWALK AND/OR BORDER.
2. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE REFER TO THE PLANS TO DETERMINE THE RADIUS AND WHERE NECESSARY MODIFY THE INLET DETAILS ACCORDINGLY. BEND STEEL WHEN NECESSARIES.
3. ALL STEEL IN INLET TOPS SHALL HAVE 1-1/4" MINIMUM COVER UNLESS OTHERWISE NOTED. INLET TOPS SHALL BE EITHER CAST IN PLACE OR PRE-CAST CONCRETE.
4. ONLY ROUND CONCRETE SUPPORT POST WILL BE ACCEPTABLE

FDOT TYPE 3 CURB INLET DETAIL

NOT TO SCALE



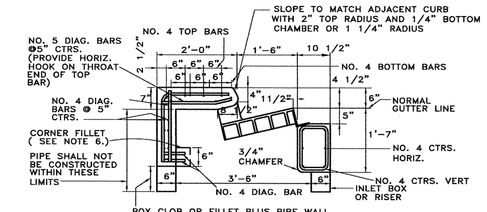
TOP VIEW



NOTES:
1. THE FINISHED GRADE AND SLOPE OF THE INLET TOPS ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF THE PROPOSED SIDEWALK AND/OR BORDER.
2. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE REFER TO THE PLANS TO DETERMINE THE RADIUS AND WHERE NECESSARY MODIFY THE INLET DETAILS ACCORDINGLY. BEND STEEL WHEN NECESSARIES.
3. ALL STEEL IN INLET TOPS SHALL HAVE 1-1/4" MINIMUM COVER UNLESS OTHERWISE NOTED. INLET TOPS SHALL BE EITHER CAST IN PLACE OR PRE-CAST CONCRETE.
4. ONLY ROUND CONCRETE SUPPORT POST WILL BE ACCEPTABLE

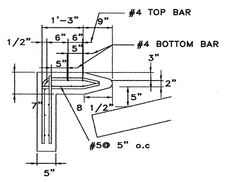
FDOT TYPE 4 CURB INLET DETAIL

NOT TO SCALE

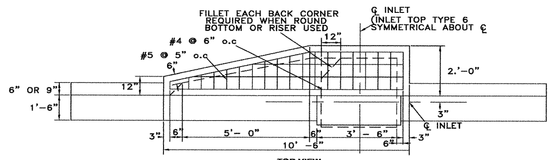


BOX CLOB OR FILLET PLUS PIPE WALL (STEEL COVER SHOWN)

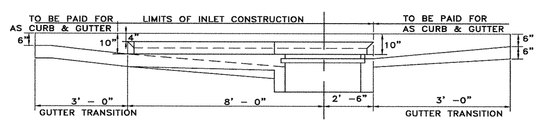
SECTION AA



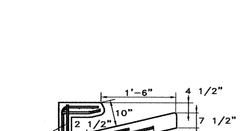
TOP MODIFICATION FOR TYPE E CURB



TOP VIEW

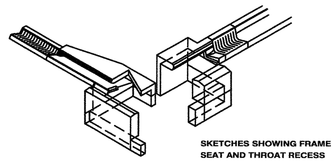


SECTION BB
(CURB INLET TOP TYPE 6 SYMMETRICAL WITH LEFT HALF)
INLET TYPE 5

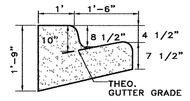


INTERMEDIATE BARS (DISCONTINUED WHEN SPACE BETWEEN ADJACENT LONGITUDINAL CLOSER THAN 8" CENTERS)

SECTION PP



SKETCHES SHOWING FRAME SEAT AND THROAT RECESS



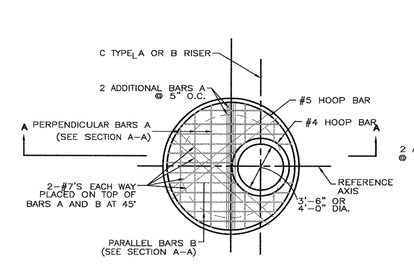
SECTION QQ

GENERAL NOTES

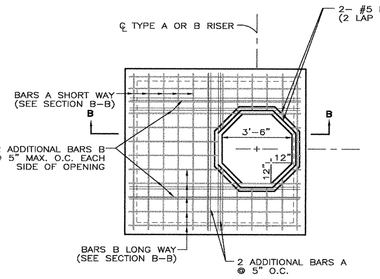
1. THE FINISHED GRADE AND SLOPE OF THE INLET TOPS ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF PROPOSED SIDEWALK AND/OR PARKWAY.
2. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE, REFER TO THE PLANS TO DETERMINE THE RADIUS AND, WHERE NECESSARY MODIFY THE INLET DETAILS ACCORDINGLY. BEND STEEL WHEN NECESSARY.
3. ALL REINFORCED STEEL SHALL HAVE 1 1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN. INLET TOPS SHALL BE EITHER CAST-IN-PLACE OR PRE CAST CONCRETE.
4. PRE CASTING OF THIS INLET TOP WILL BE PERMITTED, PRE CAST UNITS SHALL CONFORM TO THE DIMENSIONS SHOWN OR IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. REQUEST FOR SHOP DRAWINGS APPROVAL SHALL BE DIRECTED TO THE STATE DRAINAGE ENGINEER.
5. CONCRETE MEETING THE REQUIREMENTS OF A.S.T.M. C 478 (4,000 P.S.I.) MAY BE USED IN LIEU OF THE CLASS I CONCRETE FOR PRE CAST UNITS, MANUFACTURED IN PLANTS WHICH ARE UNDER THE STANDARD OPERATION PROCEDURES FOR THE INSPECTION OF PRE CAST DRAINAGE PRODUCTS.
6. THE CORNER FILLETS SHOWN FOR RECTANGULAR THROATS ARE NECESSARY ONLY WHEN THROATS ARE TO BE USED IN CONJUNCTION WITH CIRCULAR INLET BOTTOMS OR WHEN USED ON SKEW WITH RECTANGULAR INLET BOXES.
7. FOR INLET BOTTOMS SEE INDEX NO. 200.
8. THESE INLETS TOPS ARE DESIGNED FOR USE WITH STANDARD CURB AND GUTTER TYPE E AND TYPE F. LOCATE OUTSIDE OF PEDESTRIAN CROSSWALKS WHERE PRACTICAL.
9. SEE INDEX 201 FOR SUPPLEMENTAL DETAILS.
10. ALL STEEL USED FOR FRAME AND COVER SHALL MEET THE REQUIRED OF ASTM A-36.
11. EITHER CAST IRON COVERS OR STEEL COVERS MAY BE USED. IRON COVERS SHALL BE CLASS NO. 30 CASTING IN ACCORDANCE WITH ASTM A-48.
12. WHEN ALTERNATE "G" COVER IS SPECIFIED IN PLANS EITHER THE CAST-IRON COVER AND GALVANIZED STEEL FRAME OR THE GALVANIZED STEEL COVER AND FRAME MUST BE USED. COVERS ARE TO BE GROUTED IN ACCORDANCE WITH THE GROUTING DETAIL SHOWN ON SHEET 2 OF 2, IN LIEU OF TRACK WELDING.
13. INLET TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR INLETS (CURB) (TYPE-), EACH.

F.D.O.T. TYPE 5 AND 6 INLET DETAIL

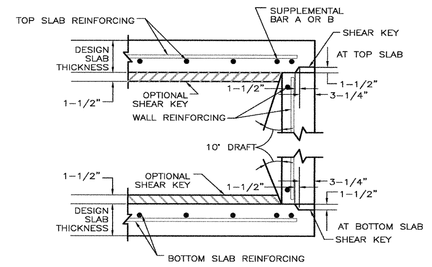
NOT TO SCALE



TOP SLAB REINFORCING STEEL DIAGRAM

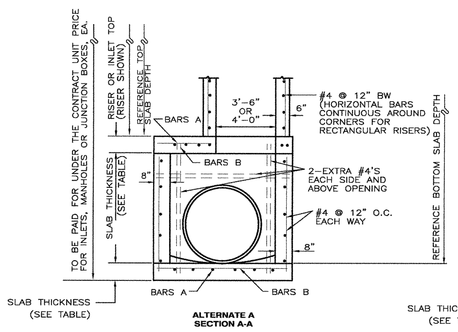


TOP SLAB REINFORCING STEEL DIAGRAM

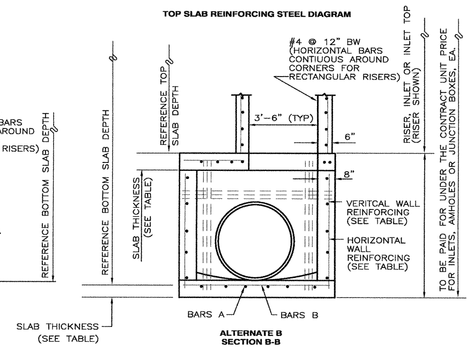


NOTE: VARIATIONS IN SHEAR KEY DIMENSIONS WILL BE PERMITTED SUBJECT TO THE ENGINEER'S APPROVAL

SLAB TO WALL DETAILS FOR PRECAST ALTERNATE WITH 6" WALLS



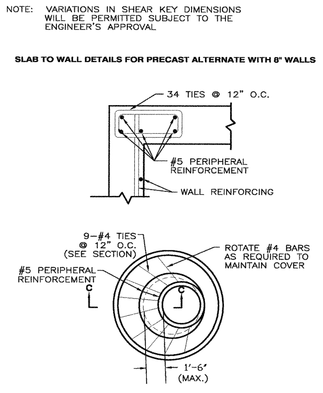
ALTERNATE A SECTION A-A



ALTERNATE B SECTION B-B

* NOTE: WHEN THE INSIDE DIAMETER OF A ROUND STRUCTURE IS NOT MORE THAN 1'-6" LARGER THAN THE OPENING IN THE RISER OR TOP SLAB, THE TOP OF THE STRUCTURE OR RISER SHALL BE CONSTRUCTED ACCORDING TO THE "SPECIAL TOP SLAB" DETAILS ON THIS SHEET.

NOTE: PROVIDED EXTRA REINFORCING EACH SIDE OF EACH OPENING AT 3" MAXIMUM SPACING EQUAL TO HALF THE AREA OF VERTICAL REINFORCEMENT REMOVED BY TEH OPENING AND PROVIDE THE SAME AREA OF REINFORCEMENT ABOVE EACH OPENING AT 3" MAXIMUM SPACING AS REMOVED BY THE OPENING.



SPECIAL TOP SLAB*

1. STANDARD STRUCTURE BOTTOMS 4'-0" DIAMETER AND SMALLER (ALT. A) AND 3'-6" SQUARE (ALT. B) ARE DESIGNATED TYPE P. LARGER STANDARD STRUCTURE BOTTOMS ARE DESIGNATED TYPE J. RISERS ARE PERMITTED FOR ALL STRUCTURES.
2. WALLS OF CIRCULAR STRUCTURES (ALTERNATE A) CONSTRUCTED IN PLACE MAY BE ON NON-REINFORCED CONCRETE OR BRICK OR REINFORCED CONCRETE. PRECAST AND RECTANGULAR STRUCTURES (ALTERNATE B) SHALL BE CONSTRUCTED OF REINFORCED CONCRETE ONLY.
3. WALL THICKNESS AND REINFORCEMENT ARE FOR EITHER REINFORCED CAST-IN-PLACE OR PRECAST CONCRETE UNITS EXCEPT THAT PRECAST CIRCULAR UNITS MAY BE FURNISHED WITH WALLS IN ACCORDANCE WITH EITHER ASTM C-478 (UP TO 96" DIAMETER) OR ASTM C-76, CLASS III, B WALL MODIFIED WHERE THE ELLIPTICAL STEEL CAGE AREA IS PLACED IN THE CENTER ONE-THIRD OF THE WALL.
4. TOP AND FLOOR SLAB THICKNESS AND REINFORCEMENT ARE FOR PRECAST AND CAST-IN-PLACE CONSTRUCTION. TOP AND FLOOR SLABS SHALL BE OF CLASS II CONCRETE. CONCRETE AS SPECIFIED IN ASTM C-478 (4000 PSI) MAY BE USED IN LIEU OF CLASS I AND CLASS II CONCRETE IN PRECAST ITEMS MANUFACTURED IN PLANTS WHICH ARE UNDER THE "STANDARD OPERATING PROCEDURES" FOR THE INSPECTION OF PRECAST DRAINAGE PRODUCTS.
5. ALL REINFORCEMENT SHALL BE ASTM A615, GRADE 60 OR 65 KSI WELDED WIRE FABRIC, EITHER SMOOTH OR DEFORMED.
6. STRUCTURE BOTTOMS MAY BE USED IN CONJUNCTION WITH CURB INLET TOPS TYPES 1, 2, 3, 4, 5, 6, 7, 8, 9, AND 10, AND ANY MANHOLE OR JUNCTION BOX UNLESS OTHERWISE SHOWN IN THE PLANS OR OTHER STANDARD DRAWINGS. ALT. B STRUCTURE BOTTOMS MAY BE USED IN CONJUNCTION WITH CURB INLET TYPES 7 & 8, OR ANY DITCH BOTTOM INLET UNLESS OTHERWISE SHOWN IN THE PLANS OR OTHER STANDARD DRAWINGS.
7. RECTANGULAR STRUCTURES MAY BE ROTATED AS DIRECTED BY THE ENGINEER IN ORDER TO FACILITATE CONNECTIONS BETWEEN THE STRUCTURE WALLS AND STORM SEWER PIPES.
8. EXCEPT WHEN ACI HOOKS ARE SPECIFICALLY REQUIRED, REINFORCEMENT TOP AND SLAB SHALL BE STRAIGHT EMBEDMENT.
9. ALL STEEL BARS SHALL HAVE 1-1/2" MINIMUM COVER UNLESS OTHERWISE SHOWN. EXCEPT FOR PRECAST CIRCULAR UNITS MANUFACTURED UNDER ASTM C-76 OR ASTM C-478, HORIZONTAL STEEL IN RECTANGULAR STRUCTURES SHALL BE LAPPED A MINIMUM OF 24 BAR DIAMETERS AT CORNERS.
10. THE CORNER FILLETS SHOWN ARE NECESSARY FOR RECTANGULAR STRUCTURES USED WITH CIRCULAR RISERS AND INLET THROATS AND USED ON SKEW WITH RECTANGULAR RISERS, INLET AND INLET THROATS. FILLETS WILL BE REQUIRED IN LIEU OF THE BOTTOM SLAB OF THE ALT. B RISER WHEN USED WITH THE ALT. A BOX. EACH FILLET SHALL BE REINFORCED WITH 2-#5 BARS.
11. INLET THROATS, RISERS OR MANHOLE TOPS SHALL BE SECURED TO STRUCTURES AS SHOWN ON INDEX NO. 201.
12. STRUCTURES WITH DEPTHS OVER 14' ARE TO BE CHECKED FOR FLOATATION BY DESIGNER OF PROJECT DRAINAGE.
13. UNITS LARGER THAN SPECIFIED STANDARD MAY BE SUBSTITUTED AT THE CONTRACTORS OPTION WHEN THESE UNITS WILL NOT CAUSE OR INCREASE THE SEVERITY OF UTILITY CONFLICTS. SUCH LARGER UNITS SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE DEPARTMENT. LARGER ALTERNATE A UNITS CANNOT REPLACE ALTERNAT B UNITS WITHOUT APPROVAL OF THE ENGINEER. THIS NOTE APPLIES TO THIS INDEX ONLY.
14. FOR MANHOLE AND JUNCTION BOX TOPS, FOR FRAMES AND COVERS, AND FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT TYPE J INLET DETAIL

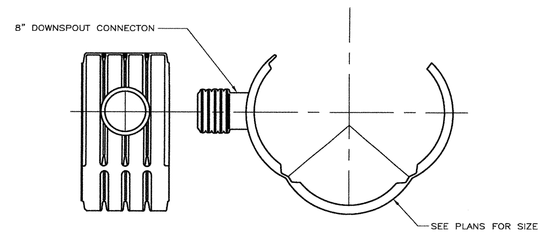
NOT TO SCALE



NOTE: ALL PIPE ADS N-12 OR EQUAL

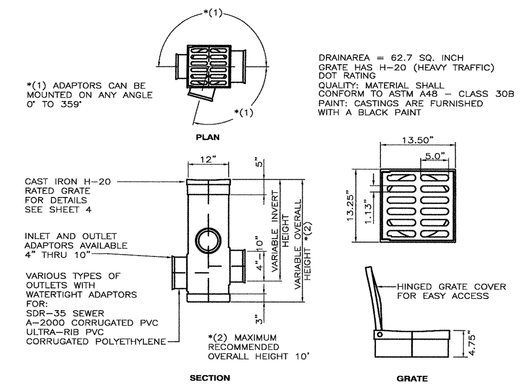
DOWNSPOUT DETAIL

NOT TO SCALE



N-12 FABRICATED SADDLE TEE

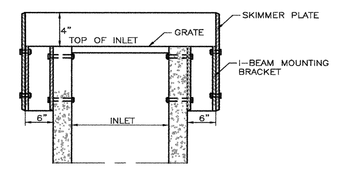
NOT TO SCALE



NOTE: USE ADS CATCH BASIN OR EQUAL.

12" ADS CATCH BASIN DETAIL

NOT TO SCALE



SIDE VIEW

SKIMMER PLATE DETAIL

NOT TO SCALE

NO.	DATE	BY	REVISIONS

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PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
FL LIC # 49303	FL LIC # 67988	FL LIC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-20-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
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75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C13

ASPHALTIC CONCRETE PAVING

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL PAVEMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING:

ASPHALT PAVING MATERIAL AND MIX DESIGN.
PROVIDE COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR, CERTIFYING THAT EACH MATERIAL ITEM COMPLIES WITH, OR EXCEEDS, SPECIFIED REQUIREMENTS.

WEATHER LIMITATIONS: APPLY PRIME AND TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES F. (10 DEGREES C), AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES F. (1 DEGREE C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS AN EXCESS OF MOISTURE.

CONSTRUCT ASPHALT CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40 DEGREES F. (4 DEGREES C), AND WHEN BASE IS DRY. SURFACE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES F. (−1 DEGREE C) AND RISING.

GRADE CONTROL: ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS.

THE SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS.

PRODUCTS: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS.

AGGREGATE: CRUSHED STONE, CRUSHED GRAVEL, AND SHARP-EDGED NATURAL SAND.

MAXIMUM AGGREGATE SIZE SHALL BE NO GREATER THAN ONE-HALF OF THE DESIGN THICKNESS OF THE WEARING OR BINDER COURSE.

SURFACE PREPARATION: PROOF ROLL PREPARED BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.

NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT BASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

PRIME COAT: APPLY AT RATE OF 0.2 TO 0.5 GAL. PER SQ. YD., OVER COMPACTED BASE. APPLY MATERIAL TO PENETRATE AND SEAL, BUT NOT FLOOD SURFACE. CURE AND DRY AS LONG AS NECESSARY TO ATTAIN PENETRATION AND EVAPORATION OF VOLATILE.

TACK COAT: APPLY TO CONTACT SURFACE OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO ASPHALT CONCRETE PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.51 GAL. PER SQ. YD. OF SURFACE.

ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING.

ASPHALT CONCRETE MIX: THIS ITEM SHALL CONSIST OF A WEARING SURFACE CONSTRUCTED OF ASPHALTIC CONCRETE ON A PREPARED BASE.

THE MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THOSE SET FORTH FOR ASPHALTIC CONCRETE IN THE LATEST F.D.O.T. EDITION OF THE STANDARD SPECIFICATIONS.

THE ASPHALTIC CEMENT SHALL MEET THE REQUIREMENTS OF AASHTO SPECIFICATIONS M-20, VISCOSITY GRADE AC-20 (PENETRATION GRADE 60-70).

JOB MIX FORMULA: THE MARSHALL TESTING WILL BE USED IN ESTABLISHING THE JOB MIX FORMULA AND FOR CONTROL TESTING THROUGHOUT THE WORK.

THE DENSITY OF FIELD SAMPLES SHALL NOT BE LESS THAN 95% OF THE MARSHALL LABORATORY COMPACTED MIXTURE COMPOSED OF THE SAME MATERIALS IN LIKE PROPORTIONS.

THE THICKNESS OF THE SURFACE SHALL BE AS SPECIFIED IN THE SITEWORK PLANS. THIS REQUIREMENT SHALL BE CHECKED BY CORES AND WHERE A DEFICIENCY OF MORE THAN 1/4" EXISTS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCY EITHER BY REPLACING THE FULL THICKNESS OR OVERLAYING THE AREAS TO THE SATISFACTION OF THE ENGINEER.

SAND ASPHALT BASE

PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F. (107 DEGREES C).

PLACE IN STRIPS NOT LESS THAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO THE ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTENDED ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BASE COURSE FOR A SECTION BEFORE PLACING SURFACE COURSE.

MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOINING WORK. CLEAN CONTACT SURFACES AND APPLY TACK COAT.

BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.

ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF JOINTS AND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLING, AND REPAIR DISPLACED AREAS BY LOOSENING AND FILLING, IF REQUIRED, WITH HOT MATERIAL. CONTINUE SECOND ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPACTED.

PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED AND COURSE HAS ATTAINED MAXIMUM DENSITY. AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.

TEST IN-PLACE ASPHALT CONCRETE COURSES FOR PAVING AS DIRECTED BY ENGINEER FOR SMOOTHNESS.

THICKNESS: IN-PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABLE IF EXCEEDING FOLLOWING ALLOWABLE VARIATION FROM REQUIRED THICKNESS:

BASE COURSE: 1/2" PLUS OR MINUS
SURFACE COURSE: 1/4" PLUS OR MINUS

SURFACE SMOOTHNESS: TEST FINISHED SURFACE OF EACH ASPHALT CONCRETE COURSE FOR SMOOTHNESS, USING 10' STRAIGHTEDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTER OF PAVED AREAS. SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS:

BASE COURSE SURFACE: 1/4"
WEARING COURSE SURFACE: 3/16"
CHECK SURFACED AREAS AT INTERVALS AS DIRECTED BY ENGINEER.

FIELD DENSITY AND SOIL BEARING CAPACITY TESTS SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER. PROVIDE INSPECTION, CERTIFICATION OF PAVEMENT CONSTRUCTION, FIELD TESTS AND CORE SAMPLES OF THE COMPLETE PAVEMENT CONSTRUCTION.

MISCELLANEOUS PAVEMENT

WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

CONCRETE SIDEWALKS, CURBS, CURB AND GUTTER, INCLUDING POROUS FILL.

CONCRETE LIGHT POLE BASES.

SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING:

CONCRETE MIX DESIGN.

THIS SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS.

POROUS FILL SHALL BE CLEAN COARSE SAND, FREE DRAINING GRAVEL, OR CRUSHED ROCK ALL AS APPROVED BY THE GEOTECHNICAL ENGINEER.

POROUS FILL UNDER SIDEWALKS, ETC., SHALL BE GRADED BETWEEN 3/8" AND NO. 200 SIEVE.

POROUS FILL SHALL BE CAPABLE OF BEING COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-1557.

STEEL REINFORCING BARS SHALL CONFORM TO "SPECIFICATIONS FOR DEFORMED BILLET- STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A-615 GRADE NO. 60, HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI.

TIE WIRE SHALL BE BLACK ANNEALED WIRE, 16 GAUGE MINIMUM. BAR SUPPORTS SHALL CONFORM TO THE "BAR SUPPORT SPECIFICATIONS" CONTAINED IN "MANUAL OF STANDARD PRACTICE" AS PUBLISHED BY CRSI AND WCRSI. BAR SUPPORTS AND ACCESSORIES WITHIN 1/2" OF SURFACE OF CONCRETE EXPOSED TO WEATHER SHALL BE NON-CORROSIVE.

CEMENT SHALL BE GRAY PORTLAND CEMENT, TYPE I OR II, CONFORMING TO ASTM C-150 OR ASTM C-175 FOR AIR-ENTRAINING PORTLAND CEMENT.

CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33.

FINE AND COARSE AGGREGATES SHALL BE REGARDED AS SEPARATE INGREDIENTS AND EACH SHALL CONFORM TO THE APPROPRIATE GRADING REQUIREMENTS OF ASTM C-33.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C-260. EXPANSION JOINTS SHALL BE 1/2" THICK CANE FIBER EXPANSION JOINTS, CONFORMING TO ASTM D-1751.

EXPANSION JOINT SEALANT SHALL BE TRAFFIC GRADE, SELF LEVELING TREMCO THC-900 OR PERCORA CORPORATION "NP-200". COLOR SHALL BE BLACK. SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER.

CURING COMPOUND SHALL BE CLEAR, CONFORMING TO ASTM C-309.

CURING COMPOUND SHALL BE COMPATIBLE WITH PAINTS, ETC., SCHEDULED OR SPECIFIED FOR APPLICATION TO CONCRETE SURFACE.

ALL CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MIX DESIGN SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD.

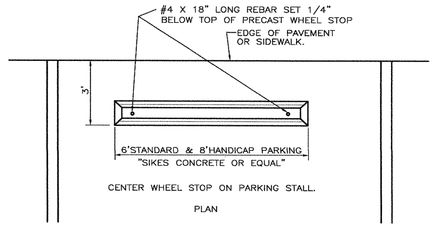
ALL CONCRETE SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4" MAXIMUM. TOLERANCE IN SLUMP SHALL NOT EXCEED ACI RECOMMENDATIONS.

READY-MIXED CONCRETE SHALL CONFORM TO ASTM C-94 AND THE NATIONAL READY MIX CONCRETE ASSOCIATION.

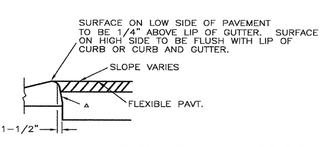
POROUS FILL SHALL BE LAID AND COMPACTED TO A MINIMUM DEPTH OF 3", UNLESS OTHERWISE INDICATED, UNDER ALL SIDEWALKS, ETC..

POROUS FILL SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO COMPLETE PAVING.

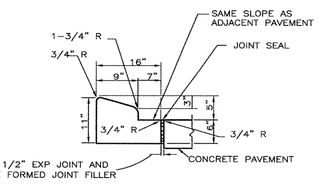


WHEEL STOP DETAIL
NOT TO SCALE



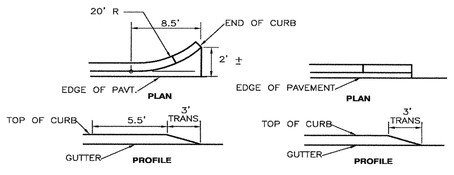
A APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



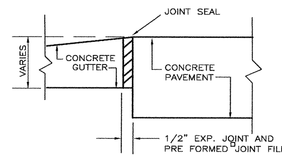
FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT.

TYPE A



CURB TYPE A

CURB AND GUTTER ENDINGS

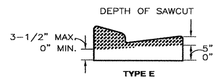


□ APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

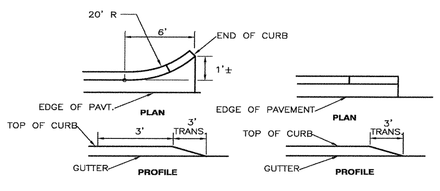
NOTE:
FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN.
EXPANSION JOINT, PRE FORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

TYPE "A" CURB DETAIL
NOT TO SCALE

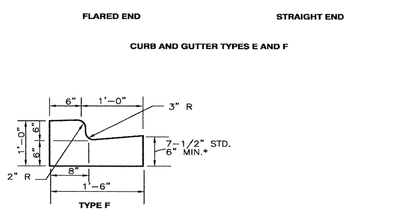


SAWCUTS SHOULD BE AVOIDED WITHIN VALLEY GUTTER AND WITHIN CURB AND GUTTER ENDINGS.

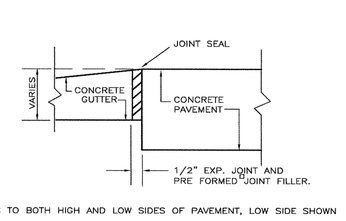
CONTRACTION JOINT IN CURB AND GUTTER



CURB AND GUTTER TYPES E AND F



* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.



A APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT

□ APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN

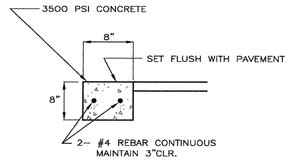
EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

NOTE:
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FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT.
EXPANSION JOINT, PERFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

GENERAL NOTES

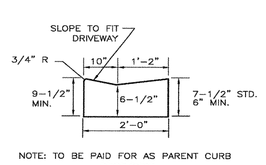
1. FOR CURB, GUTTER AND CURB AND GUTTER PROVIDE 1/8" – 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS.
   CURB, GUTTER AND CURB AND GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

MODIFIED TYPE "F" CURB DETAIL
NOT TO SCALE



1/2" EXPANSION JOINT TO BE PLACED BETWEEN ALL CONCRETE PAVEMENT AND 8" RIBBON CURBING AND SEALED WITH JOINT SEAL. CURB SHALL BE FORMED IN 20FT. SECTIONS OR LESS.

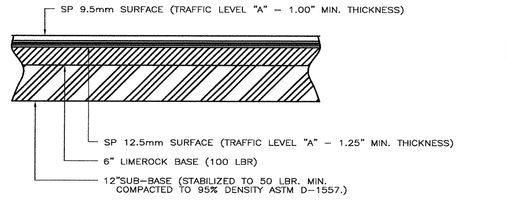
8" RIBBON CURB DETAIL
NOT TO SCALE



NOTE: TO BE PAID FOR AS PARENT CURB
DROP CURB

1/2" EXPANSION JOINT TO BE PLACED BETWEEN ALL CONCRETE PAVEMENT AND 2'CURB AND GUTTER AND SEALED WITH JOINT SEAL. CURB SHALL BE FORMED IN 20FT. SECTIONS OR LESS.

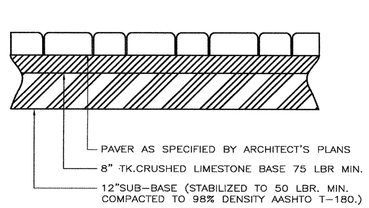
DROP CURB
NOT TO SCALE



WITHIN 4' OF SUBGRADE BOTTOM ALL SILTY AND PEATY SOILS OR ANY OTHER ORGANIC SOILS SHALL BE REMOVED. FILL SOILS SHALL BE SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THAN 15% BY DRY WEIGHT, FINER THAN THE U.S. No. 200 MESH SIEVE AND COMPACTED TO A DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH.

NOTE: SEE GEOTECHNICAL REPORT FOR COMPLETE DETAILS.

ASPHALTIC PAVEMENT DETAIL
NOT TO SCALE

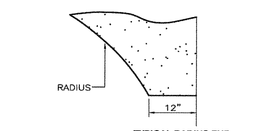


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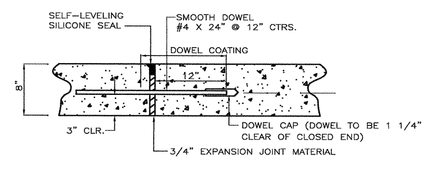
PAVER PAVEMENT DETAIL
NOT TO SCALE

□ APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN

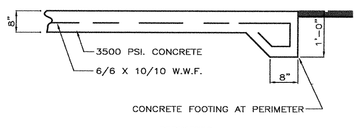
EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT



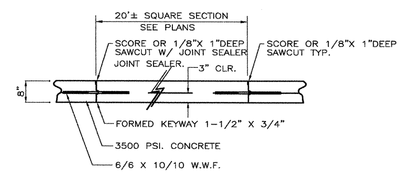
TYPICAL RADIUS END



EXPANSION JOINT



PERIMETER



CONSTRUCTION JOINT

CONSTRUCTION JOINTS MUST BE USED WHERE AN INCOMPLETE POUR IS MADE BETWEEN PLANNED EXPANSION JOINTS. THE MAXIMUM SQUARE MUST BE HALF THE DISTANCE BETWEEN EXPANSION JOINTS (SEE PLANS). WHERE A COMPLETE POUR IS MADE A SAW CUT OR SCORE SHALL BE PLACED IN LIEU OF CONSTRUCTION JOINTS.

WITHIN 4' OF SUBGRADE BOTTOM ALL SILTY AND PEATY SOILS OR ANY OTHER ORGANIC SOILS SHALL BE REMOVED. FILL SOILS SHALL BE SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THAN 15% BY DRY WEIGHT, FINER THAN THE U.S. No. 200 MESH SIEVE AND COMPACTED TO A DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH.

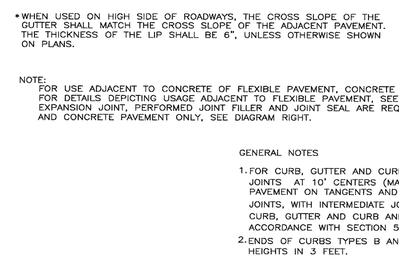
NOTE: SEE GEOTECHNICAL REPORT FOR COMPLETE DETAILS.

CONCRETE PAVEMENT DETAIL
NOT TO SCALE

SAWCUTS SHOULD BE AVOIDED WITHIN VALLEY GUTTER AND WITHIN CURB AND GUTTER ENDINGS.

CONTRACTION JOINT IN CURB AND GUTTER

CURB AND GUTTER TYPES E AND F



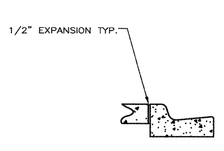
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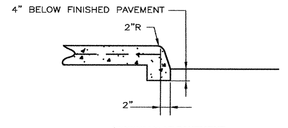
NOTE:
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FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT,
EXPANSION JOINT, PERFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

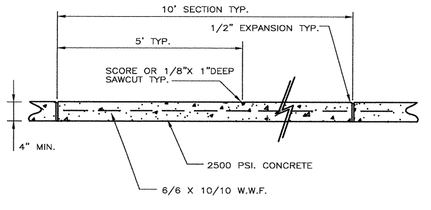
GENERAL NOTES

1. FOR CURB, GUTTER AND CURB AND GUTTER PROVIDE 1/8" – 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS.
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2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

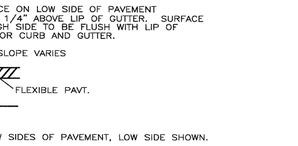
TYPE "F" CURB DETAIL
NOT TO SCALE





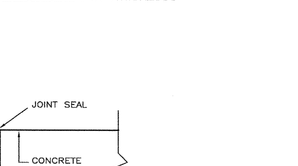


CONCRETE SIDEWALK DETAIL
NOT TO SCALE



A APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

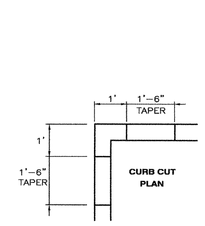
CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



□ APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

EDGE OF PAVEMENT DETAIL
NOT TO SCALE



1/2" EXPANSION JOINT TO BE PLACED BETTWEEN ALL CONCRETE PAVEMENT AND 6"CURBING AND SEALED WITH JOINT SEAL. CURB SHALL BE FORMED IN 20FT. SECTIONS OR LESS.

TYPE D CURB DETAIL
NOT TO SCALE

REVISIONS:				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PHASE:		DRAWN	CHECKED	DATE
SCHEMATIC DESIGN		T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT		T.A. ERB	JMS	06-06-07
DD OWNER REVIEW		T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS		T.A. ERB	JMS	11-16-07

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PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

CONSTRUCTION DETAILS

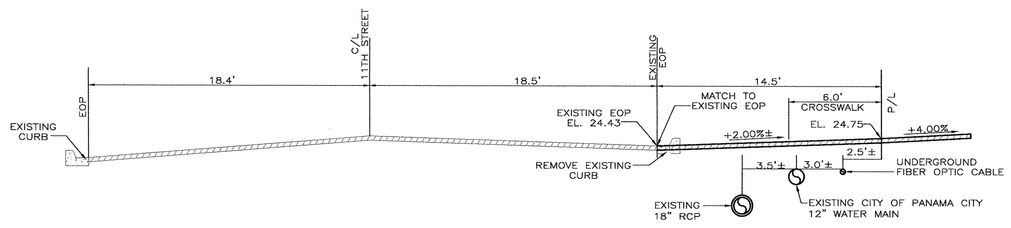
NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER FL LIC # 43003	PROFESSIONAL ENGINEER FL LIC # 57988	PROFESSIONAL ENGINEER FL LIC # 61729

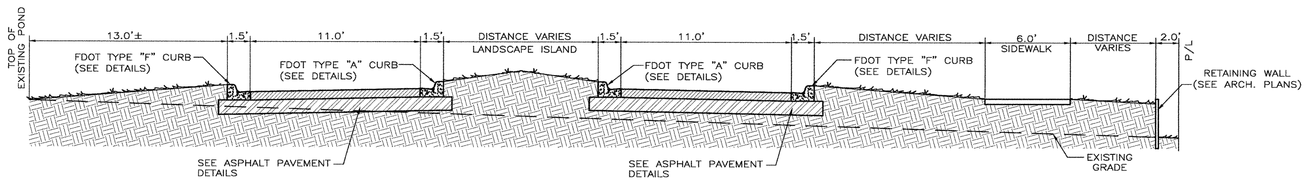
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PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C14

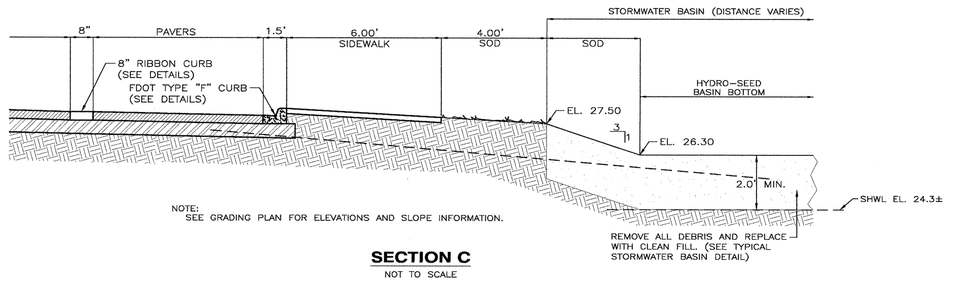


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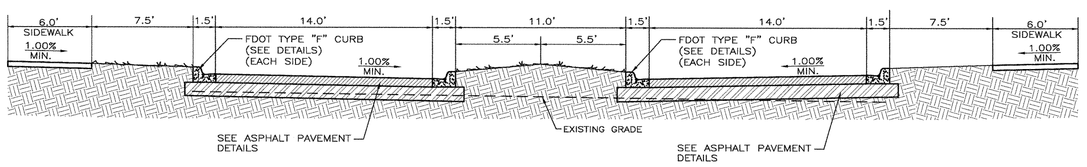
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SEE GRADING PLAN FOR ELEVATIONS AND SLOPE INFORMATION.

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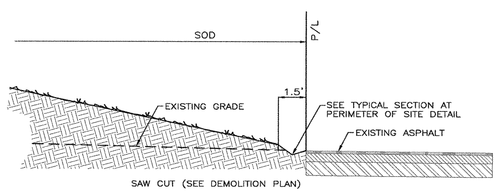
NOTE:
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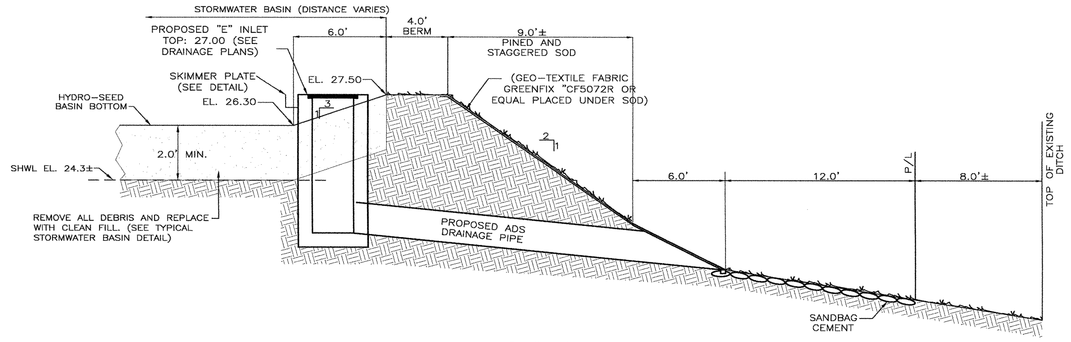


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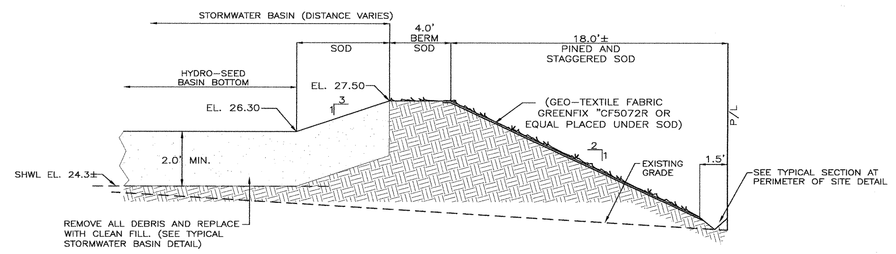
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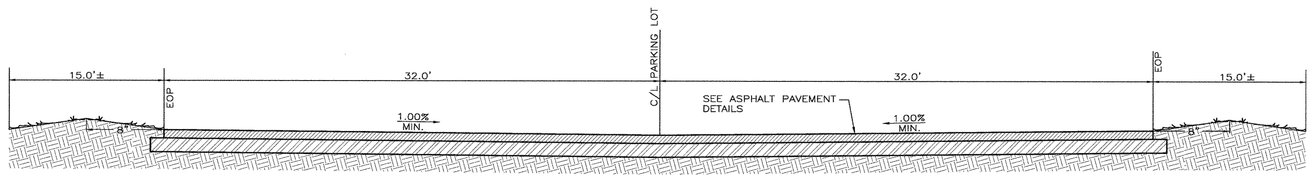
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SECTION G
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NOTE:
SEE GRADING PLAN FOR ELEVATIONS AND SLOPE INFORMATION.

SECTION H
NOT TO SCALE



SECTION I - TYPICAL PARKING SECTION
NOT TO SCALE
NOTE:
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NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 49303 | Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988 | Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	TA ERB	JMS	03-29-07
DESIGN DEVELOPMENT	TA ERB	JMS	06-06-07
DD OWNER REVIEW	TA ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	TA ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

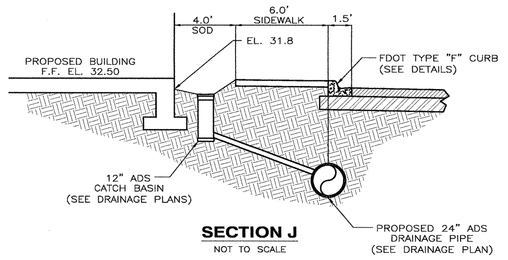
CONSULTANTS:
McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 7288
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

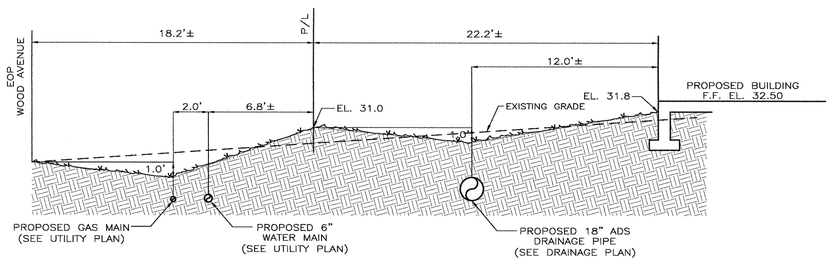
PANAMA CITY, FLORIDA

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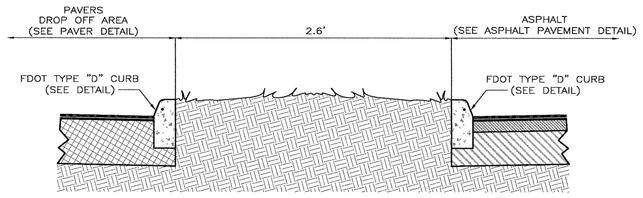
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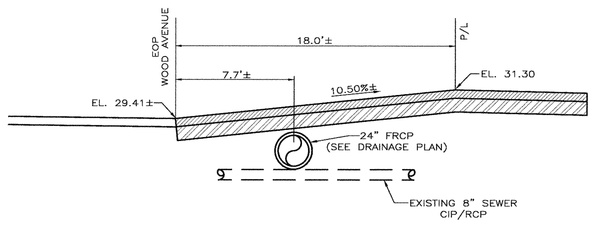
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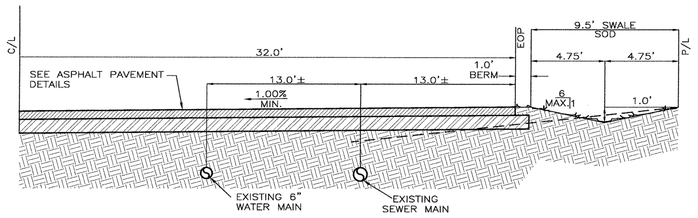
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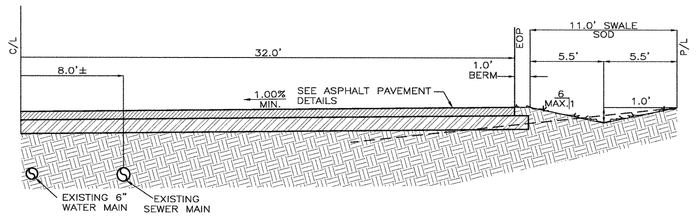
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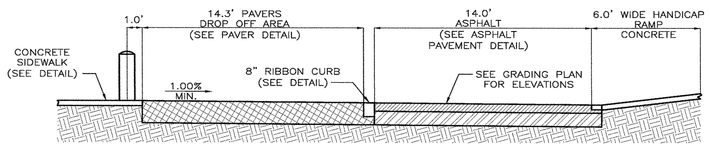
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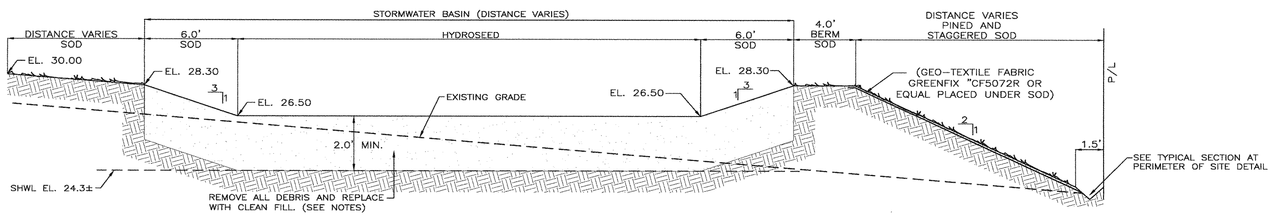
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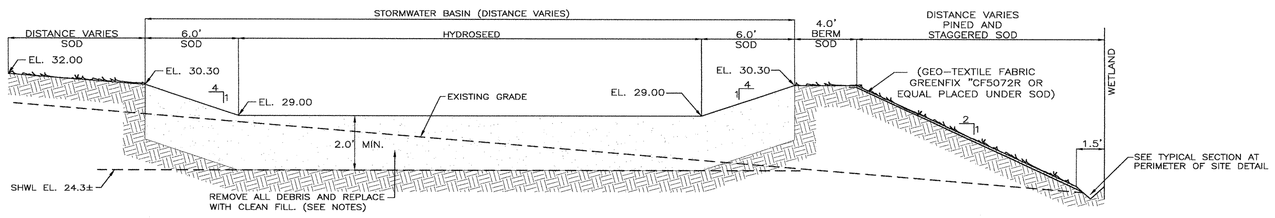


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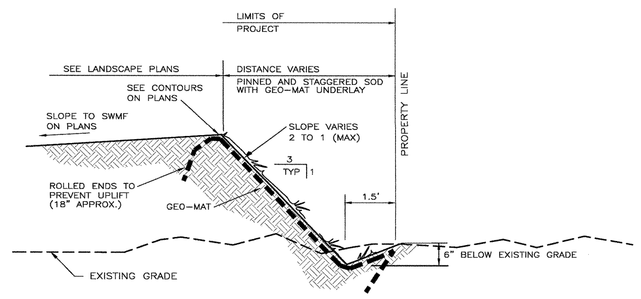
TYPICAL STORMWATER SB-1 BASIN DETAIL
NOT TO SCALE

NOTES:
1. THE FILTER SAND SHALL BE WASHED (LESS THAN 1 PERCENT SILT, CLAY, AND ORGANIC MATTER).
2. THE FILTER SAND SHALL HAVE A UNIFORM COEFFICIENT OF 1.5 OR GREATER.
3. THE FILTER SAND SHALL HAVE AN EFFECTIVE GRAIN SIZE OF 0.20 TO 0.55 MILLIMETERS IN DIAMETER. MINIMUM PERCOLATION RATE SHALL BE 30 IN./HR.



TYPICAL STORMWATER SB-2 BASIN DETAIL
NOT TO SCALE

NOTES:
1. THE FILTER SAND SHALL BE WASHED (LESS THAN 1 PERCENT SILT, CLAY, AND ORGANIC MATTER).
2. THE FILTER SAND SHALL HAVE A UNIFORM COEFFICIENT OF 1.5 OR GREATER.
3. THE FILTER SAND SHALL HAVE AN EFFECTIVE GRAIN SIZE OF 0.20 TO 0.55 MILLIMETERS IN DIAMETER. MINIMUM PERCOLATION RATE SHALL BE 30 IN./HR.



TYPICAL SECTION AT PERIMETER OF SITE
NOT TO SCALE

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
FL LC # 49303	FL LC # 57988	FL LC # 61729

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PANAMA CITY, FLORIDA

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C16

SITE UTILITIES

MATERIALS: WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CRADLES OF 2500 PSI CONCRETE FULL WIDTH OF TRENCH WITH TWO NO. 4 REINFORCING BARS CONTINUOUSLY ALONG THE BOTTOM OF PIPE.

BACKFILL: UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN TEN PERCENT (10%) BY VOLUME PASSING THROUGH A 200 MESH SIEVE.

UTILITY PIPING AND FITTINGS SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
MANHOLES STRUCTURES: SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:

REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI. CONCRETE AND CONFORM TO ASTM C-478 OR AASHO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS.

BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM.

CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS CONFORMING TO ASTM C-139.

IRON CASTING SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS, GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING. SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY MAY BE PLAINLY VISIBLE. CASTING SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC., NEENAH FOUNDRY COMPANY OR EQUAL.

CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF SITE UTILITY STRUCTURES AND PADS SHALL CONSIST OF THE FOLLOWING:

PORTLAND CEMENT: SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II.

FINE OR COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10% TO 30% PASSING NO. 50 SIEVE.

HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S.

WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40.

FORMS FOR CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE SUFFICIENT STRENGTH TO PREVENT DEFORMATIONS UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS PERMIT.

CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD. CONCRETE FILL BELOW GRADE FOR THRUST BLOCKS, PIPE CRADLES ETC. MAY BE 2500 PSI. AT 28 DAYS.

CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% + 1%. ADDITIVE SHALL BE USED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.

READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.

MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE N, AVERAGE COMPRESSIVE STRENGTH 2500 PSI. AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME.

MORTAR FOR PARGING SHALL CONSIST OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND.

BACKFILL SHALL BE SAME MATERIAL SPECIFIED FOR PIPE BEDDING. WHERE SERVICE OR UTILITY LINES CROSS A STREET, BEDDING SHALL BE CARRIED TO FIVE FEET (5') BEHIND THE CURB, OR WHERE SIDEWALKS EXIST, TO THE SIDE OF THE SIDEWALK FARTHEST AWAY FROM THE STREET.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO COMPLETE UTILITIES .

SEWER COLLECTION SYSTEM

PRODUCTS
GENERAL: ALL MATERIALS SHALL BE ACCORDANCE WITH THE MATERIAL STANDARD AND SHALL IN NO EVENT, BE LESS THAN THAT NECESSARY TO CONFORM TO THE REQUIREMENTS OF ANY APPLICABLE LAW, ORDINANCES, AND CODES. ALL MATERIALS SHALL BE NEW, UNUSED, AND CORRECTLY DESIGNED. THEY SHALL BE OF STANDARD, FIRST GRADE QUALITY AND INTENDED FOR THE USE FOR WHICH THEY ARE OFFERED. MATERIALS OR EQUIPMENT WHICH, IN THE OPINION OF THE OWNER'S ENGINEER, ARE INFERIOR OR OF A LOWER GRADE THAN INDICATED, SPECIFIED, OR REQUIRED WILL NOT BE ACCEPTED.

GRAVITY SEWER
GENERAL: SEWER PIPE CONSTRUCTION SHALL BE AS SHOWN ON THE DRAWINGS. FURNISH WYES, TEES, REDUCING TEES, WYES, COUPLINGS, INCREASERS, CROSSES, TRANSITIONS, AND END CAPS OF SAME TYPE AND CLASS OF MATERIAL AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO THE ENGINEER.

DUCTILE IRON PIPE
PIPE: ALL DUCTILE IRON PIPE SHALL HAVE A MINIMUM TESILE STRENGTH OF 60,000 PSI, A MINIMUM YIELD STRENGTH OF 42,000 PSI, AND A MINIMUM OF CLASS 52 IN ACCORDANCE WITH AWWA C-151/ANSI A 21.51.
JOINTS: JOINTS FOR DUCTILE IRON PIPE SHALL BE EITHER OF THE SLIP-ON TYPE USING A SINGLE RUBBER GASKET, OR MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111/ANSI A 21.11.
COATINGS: ALL PIPE SHALL BE CEMENT MORTAR LINED AND SEALED COATED IN ACCORDANCE WITH AWWA C-104. THE LINING THICKNESS SHALL BE STANDARD THICKNESS. PIPE SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A-21.6 A-21.8, OR A-21.51.

POLYVINYL CHLORIDE (PVC) PIPE
PIPE: PVC PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D-3034 AND D-1784. ALL PVC PIPE SHALL MEET THE DIMENSION REQUIREMENTS OF STANDARD DIMENSION RATION (SDR) 35.

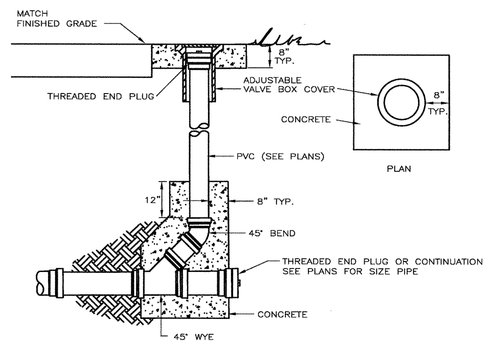
JOINTS: JOINTS FOR PVC SEWER PIPE SHALL BE OF THE BELL AND SPIGOT TYPE CONFORMING TO ASTMD-3212 USING FACTORY INSTALLED, FLEXIBLE ELASTOMERIC SEALS. THE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F-477.
PIPE MARKINGS: ALL PIPE SHALL BE MARKED AS PRESCRIBED IN ASTM 3-2241, i.e., NOMINAL PIPE SIZE, TYPE OF PLASTIC PIPE MATERIAL, PIPE DIMENSION RATIO, PRESSURE RATING, ASTM SPECIFICATION DESIGNATION NUMBER MANUFACTURER'S NAME AND CODE, AND THE NATIONAL SANITATION FOUNDATION SEAL FOR POTABLE WATER.
COATING: NOT REQUIRED.
CUTTING: PVC SEWER PIPE MAY BE FIELD CUT USING HAND OR POWER SAWS IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS. THE LAW SPIGOT END THUS FORMED SHALL BE FILED TO REMOVE GASKET DAMAGING BURRS AND TO FORM A STANDARD BEVEL.
FITTINGS: PVC SEWER PIPE FITTINGS SHALL COMPLY WITH ASTM D3034, ASTM 3212 AND HAVE ELASTOMERIC SEALS CONFORMING TO ASTM F-477.

MANHOLES
GENERAL: MANHOLES SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE SECTIONS. EACH MANHOLE SHALL HAVE A BASE SECTION OR TEE SECTION, BARREL SECTION AND TOP ALL AS REQUIRED. EXCEPT AS OTHERWISE SPECIFIED OR SHOWN, PRECAST CONCRETE MANHOLES SHALL COMPLY WITH ANSI/ASTM C478.
MANHOLE BARRELS: MANHOLE BARREL SECTIONS SHALL BE CONSTRUCTED WITH PRE-FORMED OPENINGS PROPERLY LOCATED FOR AMINO SEWER LINE CONNECTIONS AND SHALL BE JOINTED TO PREVENT GROUND WATER INFILTRATION. THE DIAMETER OF SUCH OPENINGS SHALL NOT BE MORE THAN FOUR INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE OR PIPE AND TO BE CONNECTED. THE DISTANCE BETWEEN THE NEAREST EDGE OF SUCH OPENINGS SHALL BE 12" OR GREATER. THE MANHOLE TOP SHALL BE SIX INCHES MINIMUM.
MANHOLE JOINTS: JOINTS SHALL BE TONGUE AND GROOVE WITH O-RING OR "RAM-NECK" COMPRESSION RUBBER GASKETS.
MANHOLE CONNECTOR: A FLEXIBLE PIPE-TO-MANHOLE CONNECTOR SHALL BE EMPLOYED IN THE CONNECTION OF THE SEWER PIPE TO THE PRE-CAST MANHOLE. THE FLEXIBLE CONNECTOR SHALL BE A KOR-N-SEAL CONNECTOR OR EQUAL AND SHALL COMPLY WITH ASTM C443 AND ASTM C923 AND CONSIST OF MATERIAL DESIGNED TO BE RESISTANT TO OZONE, WEATHER ELEMENTS, CHEMICALS, INCLUDING ACIDS, ALKALIES, ANIMAL AND VEGETABLE FATS, OILS AND PETROLEUM PRODUCTS. THE DISTANCE BETWEEN THE NEAREST EDGE OF SUCH OPENINGS AND THE SHOULDER OF THE MANHOLE JOINT SHALL BE SIX INCHES MINIMUM.
INVERT CHANNEL: INVERT CHANNELS SHALL BE CONSTRUCTED SMOOTH AND SEMICIRCULAR, CONFORMING TO THE INSIDE OF ADJACENT SEWER SECTION. THE MONITERED INVERT SHALL SHALL BE MADE IN A SMOOTH CURVE OF GRADUALLY INCREASING POSSIBLE CHANGE IN SIZE AND GRADE SHALL BE MADE GRADUALLY AND SMOOTHLY. BENCHES SHALL BE BUILT UP SOLIDLY WITH CONCRETE OR BRICK AND MORTAR AND SHALL BE BUILT WHENEVER THE INSIDE DROP EXCEEDS 24 INCHES. ALL PIPE ENTERING THE MANHOLE MUST BE TRIMMED FLUSH WITH THE WALLS. ALL EXPOSED SHARP EDGES OF THE PIPE SHALL BE WIPED SMOOTH WITH MORTAR.
CONCRETE BASE: PRECAST OR CAST-IN-PLACE AT CONTRACTOR'S OPTION. USE CONCRETE WHICH WILL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI. USE REINFORCING STEEL WITH A YIELD STRENGTH OF NOT LESS THAN 60,00 PSI IN ACCORDANCE WITH ASTM A 615.
TOPS: THE TOP SECTION OF MANHOLES LESS THAN 6 FEET IN DEPTH SHALL BE FLAT CONCRETE SLABS. FOR MANHOLES SIX FEET IN DEPTH OR MORE, THE TOP SECTION SHALL BE AN ECCENTRIC CONE.
COATINGS: ALL SURFACES SHALL BE COATED WITH COAL TAR EPOXY WITH A MINIMUM OF 20 MILS IN ORDER TO PREVENT GROUND WATER INFILTRATION.

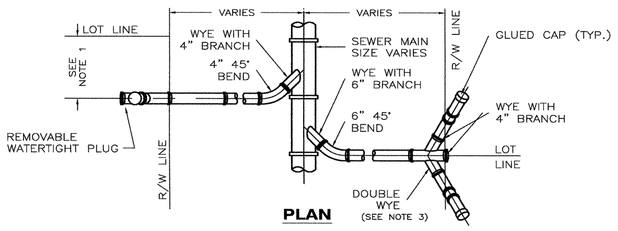
MASONRY MATERIALS
BRICK: ANSI/ASTM C32, GRADE MS.
MASONRY MORTAR: ANSI/ASTM C 270, TYPE M
FOR MINOR AMOUNTS OF MORTAR, PACKAGE MATERIALS COMPLYING WITH ANSI/ASTM C387, TYPE M, WILL BE ACCEPTABLE.

METAL ACCESSORIES
MANHOLE FRAMES AND COVERS: GRAY CAST IRON, ANSI/ASTM A 48, CLASS 30B.
FURNISH COVERS WITH CAST-IN LEGEND "SANITARY" OR IN ACCORDANCE WITH UTILITY.
MANHOLE STEPS: MANHOLE STEPS TO BE STEEL RODS ENCASED IN POLYPROPYLENE PLASTIC AND SHALL BE TYPE APS-1-B-@ AS MANUFACTURED BY M.A. INDUSTRIES, INC. OR AN APPROVED EQUAL.

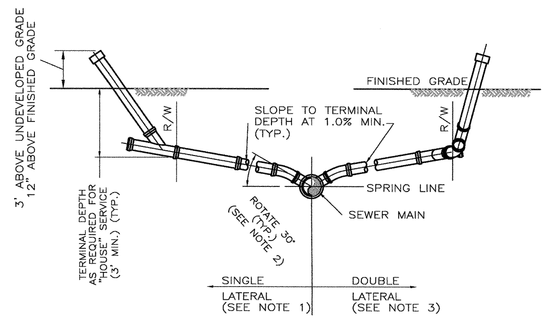
TESTING AND INSPECTION REQUIREMENTS
FLUSHING LINES: UPON COMPLETION AND IN THE PRESENCE OF THE OWNER'S ENGINEER, THE SEWER LINES SHALL BE FLASHED BETWEEN MANHOLES IN EACH STRAIGHT OR WORKING SECTION OF THE SEWER, A ROUND CIRCLE OF LIGHT FROM THE FINISHED OR OTHER END MANHOLE SHALL REMAIN CONSTANTLY IN PLAIN VIEW THROUGHOUT THE ENTIRE LENGTH OF EACH SECTION AND SHALL SHOW A TRUE CIRCUMFERENCE AND SHAPE OF THE INTERIOR SURFACE OF THE SEWER. THE TEST SHALL BE APPLIED FOR EACH WORKING SECTION AFTER THE SEWER IS COMPLETED IN ALL RESPECTS AND BEFORE IT IS ACCEPTED. ON COMPLETION OF THE SEWER LINES, THE CONTRACTOR MAY BE REQUIRED TO FLOAT A BALL THROUGH ANY LINE. IN EACH CASE, THE SIZE OF THE BALL IS TO BE ONE INCH IN DIAMETER LESS THAN THE SEWER THROUGH WHICH IT IS TO PASS.
LEAKAGE: ALL GRAVITY SEWERS, MANHOLES, AND SERVICE CONNECTIONS SHALL BE TESTED FOR LEAKAGE AS SOON AFTER BACKFILL AS IS PRACTICAL. SERVICE CONNECTIONS SHALL BE PROVIDED WITH WATERTIGHT PLUGS OR END CAPS, PROPERLY BRACED AND CAPABLE OF WITHSTANDING TEST PRESSURES.
THE TOTAL INFILTRATION OR EXFILTRATION OF ANY SECTION OF SEWER SHALL NOT EXCEED 100 GALLONS PER MILE OF PIPE PER 24 HOURS PER INCH OF NOMINAL PIPE DIAMETER. MANHOLES SHALL BE CONSIDERED AS EQUIVALENT DIAMETER PIPE FOR LEAKAGE DETERMINATION PURPOSES.



CLEANOUT DETAIL
NOT TO SCALE



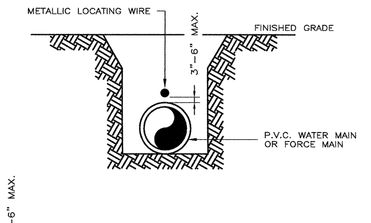
PLAN



PROFILE

NOTES:
1. LOCATE SINGLE LATERAL AS NEAR TO CENTER OF LOT AS POSSIBLE.
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
3. UPON CITY APPROVAL, DOUBLE SERVICE LATERALS SHALL ONLY BE PERMITTED ON TAPS TO OVERSIZED GRAVITY MAINS, LATERALS AND WHERE EXISTING ROAD PAVEMENT MUST BE CUT.

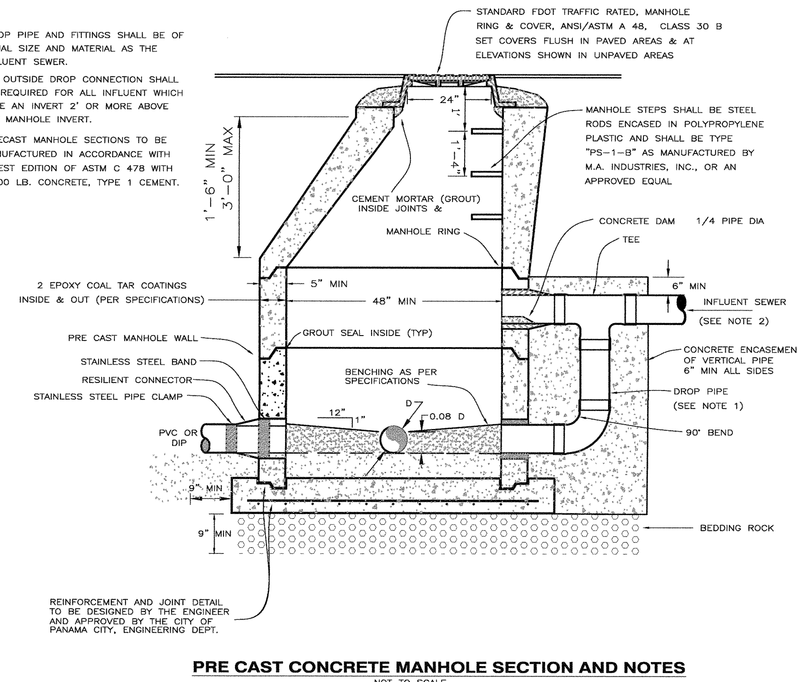
SERVICE LATERAL DETAIL
NOT TO SCALE



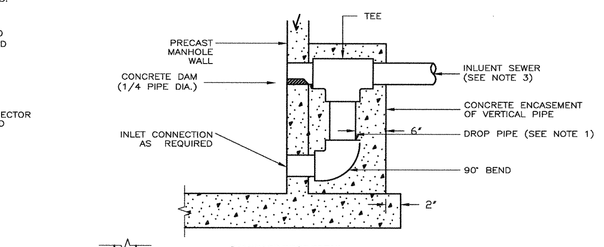
NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 24" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

PVC PIPE LOCATING WIRE
NOT TO SCALE

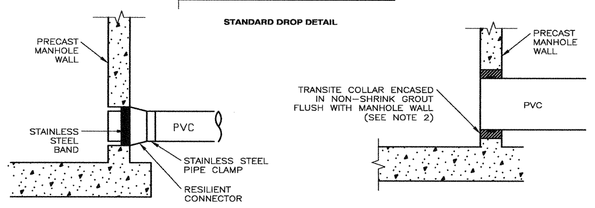
NOTE:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.
3. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH LATEST EDITION OF ASTM C 478 WITH 4,000 LB. CONCRETE, TYPE 1 CEMENT.



PRE CAST CONCRETE MANHOLE SECTION AND NOTES
NOT TO SCALE



STANDARD DROP DETAIL

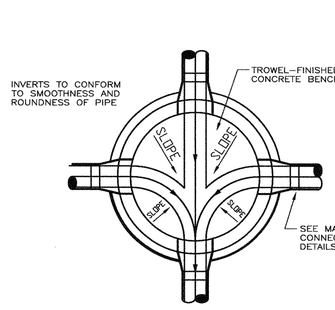


STANDARD PRECAST MANHOLE PIPE CONNECTION

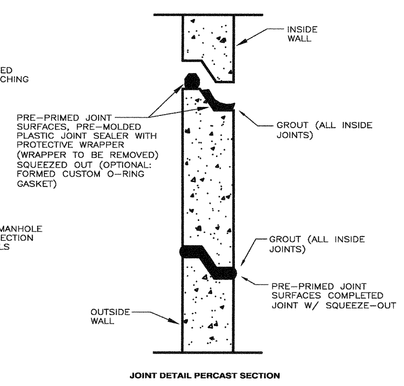
SPECIAL DETAIL FOR 24" DIAMETER PIPE AND LARGER

NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.

MANHOLE CONNECTION DETAIL
NOT TO SCALE

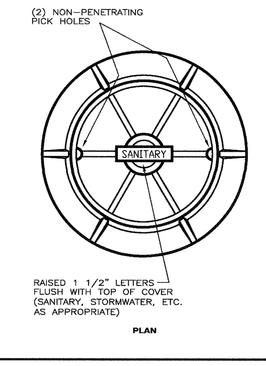


MANHOLE INVERT TYPICAL PLAN

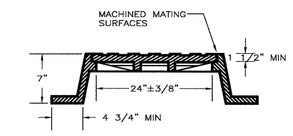


JOINT DETAIL PERCAST SECTION

MANHOLE DETAILS
NOT TO SCALE



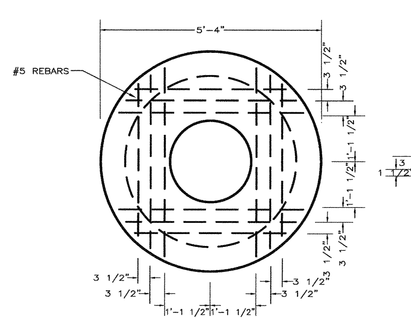
PLAN



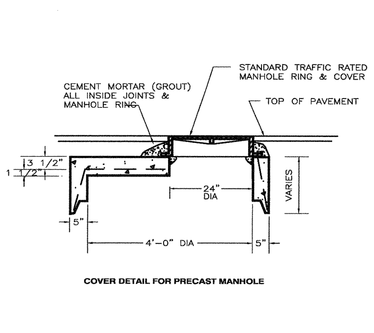
ELEVATION

NOTE: THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.

STANDARD FDOT TRAFFIC RATED MANHOLE FRAME AND COVER (ANSI/ASTM A 48, CLASS 30 B)



PRECAST TOP FOR MANHOLE



COVER DETAIL FOR PRECAST MANHOLE

MANHOLE FRAME AND COVER
NOT TO SCALE

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER FL LC # 46903	PROFESSIONAL ENGINEER FL LC # 57908	PROFESSIONAL ENGINEER FL LC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-20-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

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Phone: 850-763-5720
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Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION
C17

WATER DISTRIBUTION SYSTEM

PRODUCTS: PROVIDE ELLS, TEES, REDUCING TEES, WYES, COUPLINGS, AND OTHER REQUIRED PIPING ACCESSORIES OF SAME TYPE AND CLASS OF MATERIALS AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO ENGINEER.

UNPLASTICIZED POLYVINYL CHLORIDE (PVC PIPE SHALL HAVE AN INTEGRATED BELL-TYPE JOINT DESIGNED FOR CONVEYING POTABLE WATER UNDER PRESSURE.

JOINTS: JOINTS SHALL BE "PUSH-ON" AND SHALL MEET ALL REQUIREMENTS OF ASTM STANDARD D-3139. EACH BELL SHALL BE AN INTEGRAL WALL SECTION JOINT ASSEMBLY USING ELASTOMERIC GASKET SEALS. ALL GASKETS SHALL MEET ALL REQUIREMENTS FOR PERFORMANCE AS SPECIFIED BY ASTM STANDARD F-477. PUSH ON JOINTS AND PIPE SHALL BE EQUAL TO SUPERMAIN 900 WATER MAIN AS MANUFACTURED BY CLOW CORPORATION.

FITTINGS
GENERAL: FITTINGS THREE INCHES AND LARGER SHALL BE DUCTILE IRON MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C-11-/A21.10 OR C-153/A21.53. THE MINIMUM PRESSURE RATING FOR FITTINGS SHALL BE 250 PSI.
COATING: ALL FITTINGS FURNISHED SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA STANDARD C-104.
ANCHORING DEVICES: ALL ANCHORING DEVICES SHALL BE SUITABLE FOR USE WITH MECHANICAL JOINT FITTINGS MEETING ANSI/AWWA STANDARDS C-110, AND/OR C-111.
ALL ANCHORING DEVICES SHALL HAVE A SUFFICIENT NUMBER OF SET SCREWS SO AS TO PROPERLY ANCHOR THE FITTINGS OR PIPES AT THE RATED PRESSURE WITHOUT THE NEED FOR ADDITIONAL THRUST RESTRAINT.
RETAINER GLANDS: MECHANICAL JOINT RESTRAINT SHALL BE INCORPORATED IN THE DESIGN OF THE FOLLOWER GLAND AND SHALL INCLUDE A RESTRAINING MECHANISM WHICH, WHEN ACTUATED, IMPARTS MULTIPLE WEDGING ACTION AGAINST THE PIPE, INCREASING ITS RESISTANCE AS THE PRESSURE INCREASES. FLEXIBILITY OF THE JOINT SHALL BE MAINTAINED AFTER BURIAL. GLANDS SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A 536-80. RESTRAINING DEVICES SHALL BE DUCTILE IRON HEAT TREATED TO A MINIMUM HARDNESS OF 370 BHN. DIMENSIONS OF THE GLAND SHALL BE SUCH THAT IT CAN BE USED WITH THE STANDARDIZED MECHANICAL JOINT BELL AND TEE-HEAD BOLTS CONFORMING TO ANSI/AWWA A21.11 AND ANSI/AWWA C153/A21.53 OF LATEST REVISION. TWIST-OFF NUTS SHALL BE USED TO INSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICE SHALL HAVE A WORKING PRESSURE OF AT LEAST 350 PSI WITH A MINIMUM SAFETY FACTOR OF 2 TO 1. EBAA IRON, SERIES 2000PV, MEGALUG OR EQUAL. PUSH-ON JOINT RESTRAINTS SHALL BE SIMILAR TO EBAA IRON, SERIES 800 OR APPROVED EQUAL.

PRECAST THRUST BLOCKS
GENERAL: PRECAST CONCRETE THRUST BLOCKS SHALL BE MANUFACTURED TO PROVIDE THE MINIMUM DIMENSIONS AND CONSTRUCTION SHOWN ON THE PLANS. PRECAST THRUST BLOCKS WILL BE SUBJECT TO APPROVAL BY THE OWNER'S ENGINEER.

GATE AND TAPPING VALVES
GENERAL: GATE AND TAPPING VALVES SHALL BE RESILIENT SEAT AND SHALL COMPLY WITH ALL REQUIREMENTS OF AWWA STANDARD C-509 AND THE FOLLOWING SUPPLEMENTAL REQUIREMENTS.
TEST PRESSURE: VALVES SHALL BE TESTED AND BUBBLE-TIGHT AT 200 PSI WATER WORKING PRESSURE. TEST PRESSURE SHALL BE MAINTAINED FOR THE FULL DURATION OF THE TEST. ZERO LEAKAGE WILL BE MAINTAINED. ALL VALVES SHALL BE CLASS B GRAY IRON BODY, NON-RISING STEM, WATER VALVES SUITABLE FOR BURIED VERTICAL MOUNTING. NON-RISING STEMS SHALL BE IN FULL COMPLIANCE WITH AWWA SPECIFICATIONS WITH CAST INTEGRAL STEM COLLAR AND FURNISHED OF BRONZE CONFORMING TO ASTM B 132 ALLOY A. STEM NUTS SHALL BE INDEPENDENT OF WEDGE AND SHALL BE OF SUCH A SIZE CONFORMING TO ASTM B-62. SEALING MECHANISM SHALL BE EITHER A REPLACEABLE, INTERNALLY-REINFORCED, SPECIALLY-CONTOURED, MOLDED RUBBER DISC SET RING ATTACHED TO THE FACE OF THE DISC WITH SELF-LOCKING STAINLESS STEEL SCREWS OR A SEALING SURFACE PERMANENTLY BONDED WITH RESILIENT RESILIENT MATERIAL TO MEET ASTM D-429. REPLACEABLE SEAT RINGS SHALL BE DESIGNED SUCH THAT IT CANNOT BE INSTALLED IMPROPERLY. STUFFING BOXES SHALL BE O-RING SEAL TYPE WITH TWO RINGS LOCATED IN THE STEM. LOW FRICTION TORQUE REDUCTION THRUST BEARINGS SHALL BE LOCATED BOTH ABOVE AND BELOW THE STEM COLLAR . ALL VALVES SHALL BE OPEN BY TURNING A TWO-INCH SQUARE AWWA OPERATING NUT COUNTERCLOCKWISE.
JOINTS: JOINTS SHALL BE MECHANICAL JOINTS AND SHALL CONFORM TO AWWA STANDARD C-111, AND ALL BOLTS AND NUTS FOR MECHANICAL JOINTS SHALL BE HIGH-STRENGTH, LOW-ALLOY STEEL IN ACCORDANCE WITH SECTION 11-6.5 OF AWWA C-111. ALL GASKETS SHALL BE FOR A STANDARD MECHANICAL JOINT OF BUNA-N (SBR BUNA N) IN ACCORDANCE WITH ANSI A21.11 AND AWWA C-111. ALL MECHANICAL JOINT ACCESSORIES SHALL BE FURNISHED WITH THE VALVES. ALL VALVES SHALL BE FURNISHED WITH OPERATING NUTS AND TWO (2) OPERATING WRENCHES. ALL TAPPING VALVES SHALL HAVE FLANGE BY MECHANICAL JOINT ENDS.
ALL TAPPING VALVES SHALL BE INTERCHANGEABLE WITH OTHER MAKES OF TAPPING VALVES.
COATING: BODY AND COVER BOLTS AND NUTS SHALL MEET SPECIFICATIONS ASTM A-307 AND BE RUST PROOF. VALVE INTERIOR SHALL HAVE PROTECTIVE COATING MEETING AWWA STANDARD C-550.

BUTTERFLY VALVES
GENERAL: ALL BUTTERFLY VALVES AND OPERATORS SHALL MEET ALL REQUIREMENTS OF AWWA STANDARD C-504, FOR CLASS 150B, BURIED SERVICE VALVES AND THE FOLLOWING CRITERIA:
MECHANICAL JOINT VALVE ENDS SHALL BE IN ACCORDANCE WITH AWWA C-111. ACCESSORIES (BOLTS, GASKETS, ETC.) SHALL BE SUPPLIED BY THE VALVE MANUFACTURER, AND THE BOLTS AND NUTS SHALL BE A HIGH-STRENGTH, LOW-ALLOY SUCH AS "CORTEN", "USALLOY", "ACIPALLOY" APPROVED EQUAL.
VALVE SEAT: THE VALVE SEAT SHALL BE LOCATED ON THE VALVE BODY OR DISC AND SHALL PROVIDE DRIP-TIGHT SHUTOFF FOR PRESSURE DIFFERENTIAL OF 150 PSI VERSUS 0 PSI IN EITHER DIRECTION. THE SEAT SHALL BE OF BUNA N RUBBER AND SHALL BE CLAMPED, MECHANICALLY SECURED, BONDED OR VULCANIZED TO THE VALVE BODY OR DISC.
VALVE SHAFTS AND DISC: THE VALVE SHAFT SHALL BE A ONE-PIECE UNIT EXTENDING COMPLETELY THROUGH THE VALVE DISC OR MAY BE STUB SHAFT CONSTRUCTION. SHAFT MATERIALS SHALL CONFORM TO AWWA STANDARD C-504, SECTION 3.3. NO DEVIATION WILL BE ACCEPTED. THE VALVE DISC SHALL HAVE NOT EXTERNAL RIBS TRANSVERSE TO THE FLOW AND SHALL BE CONSTRUCTED OF MATERIAL AS SPECIFIED IN AWWA C-504, SECTION 3.4, LATEST REVISION. NO DEVIATION WILL BE ACCEPTED.
VALVE SHAFT SEALS: SHAFT SEALS SHALL BE STANDARD "O" RING OR "V" PACKED SEALS, AND ALL SEALS SHALL BE REPLACEABLE WITHOUT DISASSEMBLY OF THE VALVE.
OPERATORS: THE OPERATOR SHALL BE MANUAL TYPE OPENING TO THE RIGHT AND EQUIPPED WITH TWO INCH AWWA OPERATING NUT. THE OPERATOR SHALL BE GEAR TYPE OR TRAVELING NUT TYPE. ALL OPERATORS SHALL BE TOTALLY ENCLOSED, SEALED, GASKETED, AND LUBRICATED FOR UNDERGROUND SERVICE.
THE OPERATOR SHALL ALSO BE ABLE TO OUTPUT TORQUE REQUIRED TO OPERATE THE VALVE UNDER ALL SPECIFIED CONDITIONS WITHOUT EXCEEDING INPUT TORQUE AS ALLOWED UNDER AWWA STANDARD C-504, AT GIVEN CONDITIONS. ALL OPERATORS SHALL HAVE OUTSTANDING OVERLOAD INPUT TORQUE AS SPECIFIED IN AWWA STANDARD C-504, LATEST REVISION.

TAPPING SLEEVES
GENERAL: TAPPING SLEEVES SHALL BE CONSTRUCTED OF HEAVY GRAY CAST IRON, DUCTILE CAST IRON, OR HIGH-STRENGTH STEEL AN IN TWO HALVES; ALL TAPPING SLEEVES SHALL BE STANDARD FOR CLASS C AND D GRAY CAST IRON PIPE, AND ALL PIPE MANUFACTURED IN ACCORDANCE WITH ANSI S 21 STANDARDS.
JOINTS: TAPPING SLEEVES SHALL SEAL TO THE PIPE BY THE USE OF CONFINED "O" RING GASKET AND ABLE TO WITHSTAND A PRESSURE TEST OF 150 PSI WITH NO LEAKAGE IN ACCORDANCE WITH AWWA C-110. A 3/4 INCH NPT TEST PLUG SHALL BE PROVIDED FOR PRESSURE TESTING. ALL BOLTS JOINING THE TWO HALVES SHALL BE HIGH-STRENGTH, LOW-ALLOY STEEL IN ACCORDANCE WITH SECTION 11-6.5 OF AWWA C-111. ALL GASKETS AND OUTLET BRANCH FLANGE JOINT SHALL BE A 125# FLANGE JOINT SUITABLE FOR ATTACHMENT BY ALL OTHER MAKES OF TAPPING VALVES MEETING AWWA STANDARDS.
COATINGS: ALL GRAY CAST IRON AND DUCTILE CAST IRON SLEEVES SHALL HAVE AN OUTSIDE BITUMINOUS COATING IN ACCORDANCE WITH AWWA C-110 AND AN INSIDE CEMENT-MORTAR LINING IN ACCORDANCE WITH AWWA C-104. ALL STEEL SLEEVES SHALL BE FINISHED WITH AN EPOXY COATING BOTH INSIDE AND OUTSIDE.

TAPPING SADDLES
GENERAL: TAPPING SADDLES SHALL BE CONSTRUCTED OF HEAVY GRAY CAST IRON OR DUCTILE CAST IRON, WITH THE ATTACHMENT STRAPS, NUTS, AND WASHERS CONSTRUCTED OF CORROSION-RESISTANT, ALLOY STEEL IN ACCORDANCE WITH AWWA C-111. ALL TAPPING SADDLES SHALL BE SUITABLE FOR CLASS C & D GRAY CAST IRON, DUCTILE CAST IRON PIPE, AND ALL PIPE MANUFACTURED IN ACCORDANCE WITH ANSI A 21 STANDARDS.
JOINTS: TAPPING SADDLES SHALL SEAL TO THE PIPE BY THE USE OF A CONFINED "O" RING GASKET AND BE ABLE TO WITHSTAND A PRESSURE TEST OF 150 PSI WITH NO LEAKAGE IN ACCORDANCE WITH AWWA C-110. A 3/4 INCH NPT TEST PLUG SHALL BE PROVIDED FOR PRESSURE TESTING.
THE OUTLET BRANCH FLANGE SHALL BE A 125# FLANGE JOINT SUITABLE FOR ATTACHMENT BY ALL OTHER MAKES OF TAPPING VALVES MEETING AWWA STANDARDS.
COATINGS: TAPPING SADDLES SHALL HAVE OUTSIDE BITUMINOUS COATING IN ACCORDANCE WITH AWWA C-110 AND AN INSIDE CEMENT-MORTAR LINING IN THE BRANCH RUN IN ACCORDANCE WITH AWWAC-104.
THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST TWO HOURS OR UNTIL THE LINE HAS BEEN COMPLETELY INSPECTED FOR VISIBLE LEAKS.

PERMISSIBLE LEAKAGE: NO PIPE INSTALLATION WILL BE ACCEPTABLE UNTIL OR UNLESS THIS LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 4 U.S. GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER IN ACCORDANCE WITH AWWA C600.

DISINFECTION SHALL BE AFTER THE DISTRIBUTION SYSTEM HAS BEEN TESTED TO THE SATISFACTION OF THE ENGINEER AND SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATION C-651.

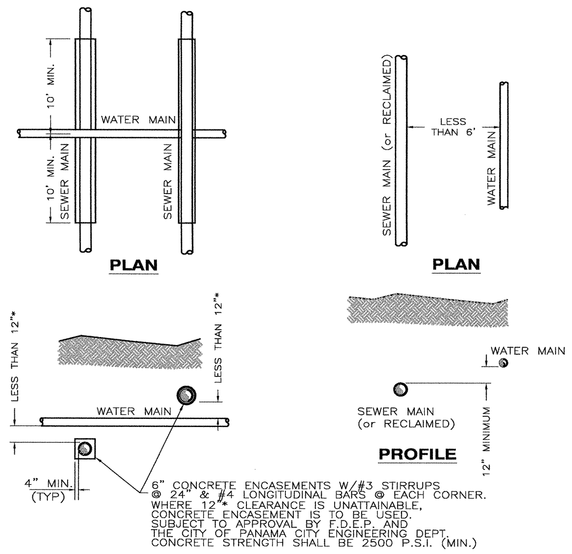
BACTERIOLOGICAL TESTING: AFTER DISINFECTING AND FINAL FLUSHING AND BEFORE THE SYSTEM IS PLACED IN SERVICE, SAMPLES SHALL BE COLLECTED AND TESTED BY A LABORATORY STATE CERTIFIED IN ACCORDANCE WITH CHAPTER 403, FLORIDA STATUTES, AT LEAST TWO SAMPLES TAKEN ONE PER DAY ON CONSECUTIVE DAYS, SHALL BE COLLECTED FROM THE OF THE MAIN FOR EACH ONE-HALF MILE SECTION OF MAIN AND FOR EACH BRANCH.

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-14 PVC PIPE

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	
24	90	38	18	X24 / 172	X20 / 139	X16 / 84	X12 / 40	X10 / 6		X20 / 64	X16 / 117	X12 / 158		214
				X24 / 148	X20 / 105	X16 / 56	X12 / 25	X10 / 0		X16 / 65	X12 / 115	X10 / 149		
20	78	32	15	X20 / 116	X16 / 70	X12 / 42	X10 / 18	X8 / 12		X16 / 64	X12 / 90	X10 / 111		184
16	66	27	13	X16 / 116	X12 / 70	X10 / 42	X8 / 18			X12 / 64	X10 / 90	X8 / 111		151
12	51	22	10	X12 / 83	X10 / 59	X8 / 32	X6 / 0			X10 / 34	X8 / 62	X6 / 86		118
10	44	18	9	X10 / 66	X8 / 41	X6 / 8				X8 / 33	X6 / 61	X4 / 81		100
8	37	15	7	X8 / 50	X6 / 21	X4 / 0				X6 / 35	X4 / 59			83
6	29	12	5	X6 / 30	X4 / 0					X4 / 32				63
4	21	8	4	X4 / 14										45

NOTES:
1.) RESTRAIN TO NEXT FULL JOINT BEYOND GIVEN LENGTH.
2.) RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
3.) ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
4.) ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
5.) PIPE SIZES ARE GIVEN IN INCHES.
6.) PIPE LENGTHS ARE GIVEN IN FEET.
7.) LENGTHS SHOWN ARE FOR A TEST PRESURE OF 180 PSI.
8.) THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON THE USE OF LIGHTLY COMPACTED CLEAN SAND WITH AT LEAST A 95% COARSE PARTICLE CONTENT. ACTUAL SOIL CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.

RESTRAINED LENGTHS FOR PVC
NOT TO SCALE

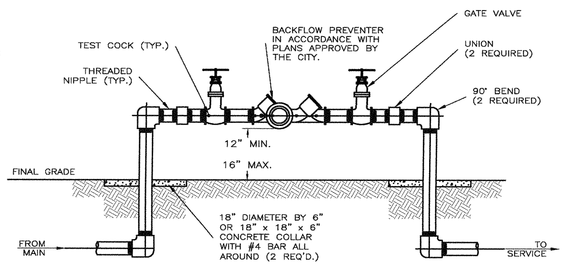


*LOCATION OF PWS MAINS.

WATER MAINS TO PROVIDE A HORIZONTAL DISTANCE OF (3) THREE FEET BETWEEN THE WATER MAIN AND ANY VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING PUBLIC-ACCESS RECLAIMED WATER AND A HORIZONTAL DISTANCE OF (6) SIX FEET BETWEEN THE WATER MAIN AND ANY GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING NON-PUBLIC-ACCESS RECLAIMED WATER.

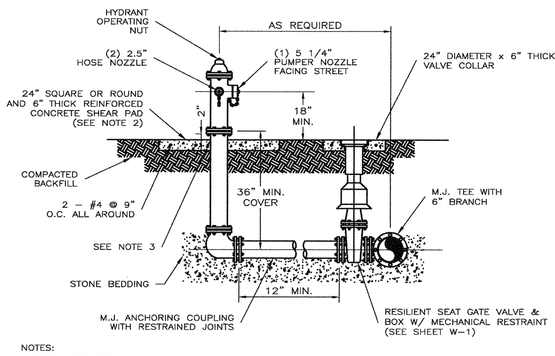
WATER MAINS CROSSING ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER MAY BE LAID SO THE WATER MAIN CROSSES (6) SIX INCHES ABOVE OR (12) TWELVE INCHES BELOW THE OTHER PIPELINE, AND WATER MAIN CROSSING ANY PRESSURE TYPE SANITARY SEWER, STORMWATER OR WASTE-WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER LAID SO THE WATER MAIN CROSSES ONLY (12) TWELVE INCHES ABOVE OR BELOW THE OTHER PIPELINE.

WATER AND SEWER MAIN CROSSING/SEPERATION DETAIL
NOT TO SCALE



NOTES:
1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.
2. PROVIDE PROTECTION AGAINST FREEZING.
3. TWO PIPE SUPPORTS REQUIRED.
4. ALL ITEMS SHALL HAVE TWO COATS OF APPROVED RUST RESISTANT BLUE ENAMEL PAINT.

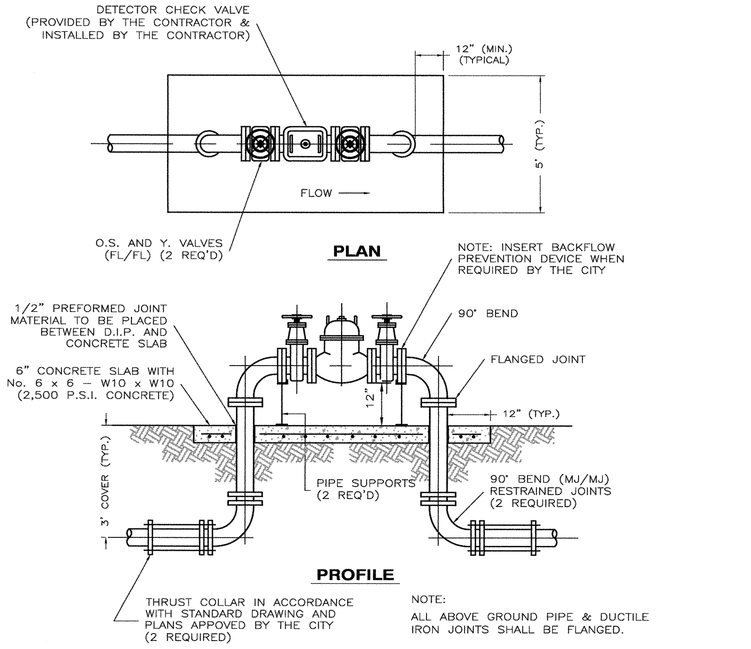
BACKFLOW PREVENTER
NOT TO SCALE



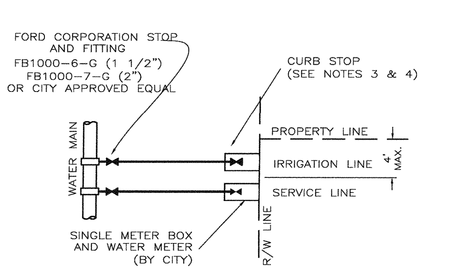
NOTES:
1. THE SHEAR PAD MAY BE RECESSED UP TO 6 INCHES BELOW FINISHED GRADE.
2. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE 2" MINIMUM.

HYDRANTS SHALL:
1. BE ABLE TO DELIVER 600 GPM WITH A FRICTION LOSS OF NOT MORE THAN 5 PSI IN THE HYDRANT AND A TOTAL LOSS OF NOT MORE THAN 5 PSI BETWEEN STREET MAIN AND OUTLET.
2. HAVE AT LEAST TWO 2 1/2" OUTLETS AND ONE 5 1/4" OUTLET, WITH NATIONAL STANDARD TYPE THREADS.
3. BE OF SUCH A DESIGN THAT WHEN THE BARREL IS BROKEN OFF THE HYDRANT WILL REMAIN CLOSED.
4. HAVE CONNECTION TO THE STREET MAIN OF NOT LESS THAN 6 INCHES IN DIA.
5. HAVE ALL FITTINGS WITH MEG-A-LUG GLANDS.
6. HAVE ALL D.I.P. PIPING.
7. HAVE A GATE VALVE BETWEEN HYDRANT AND THE STREET MAIN.
8. HAVE A 5 1/4" MAIN VALVE SEAT.
9. APPROVED MODELS ARE AMERICAN DARLING B84B, MUELLER CENTURION, M&H 129 OR CLOW MEDALLION. NO SUBSTITUTIONS ARE ALLOWED.

FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

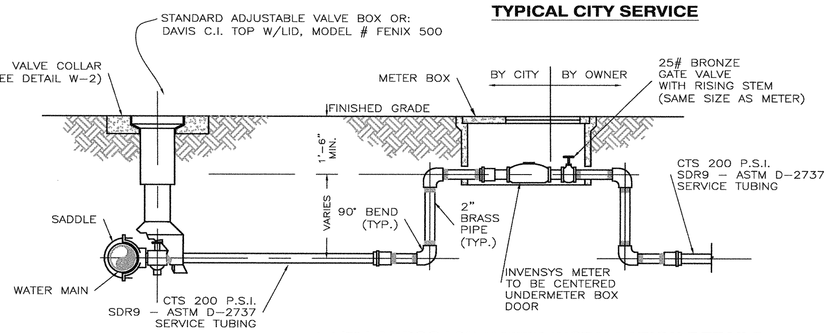


DOUBLE DETECTOR CHECK VALVE ASSEMBLY

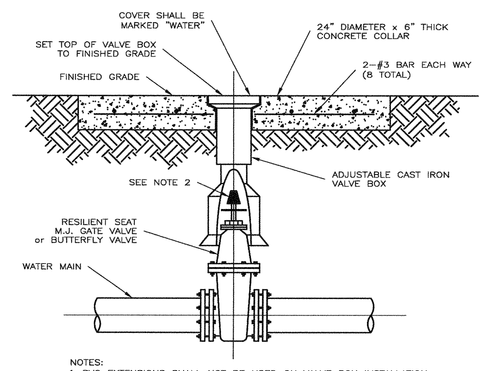


NOTES:
1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK (GRIP) JOINT TYPE CONNECTIONS.
2. NO SERVICE LINE SHALL BE CONSTRUCTED BENEATH OR TERMINATE UNDER A DRIVEWAY.
3. AT THE CITY'S DISCRETION EACH SERVICE SHALL TERMINATE AT A CURB STOP WHICH SHALL BE FASTENED TO A 1"x4"x30" STAKE PAINTED WHITE AND MARKED WITH THE NUMBER OF THE LOT TO BE SERVED, OR IN A STANDARD CITY METER BOX.
4. CURB STOP SHALL BE A FORD BALL METER VALVE BF43-666W-G, BF43-777W-G OR CITY APPROVED EQUAL.
5. ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS WILL NOT BE SET IN DRAINAGE SWALES, EASEMENTS OR SIDEWALKS.
6. METER BOX SHALL BE SOUTHERN METER BOX TH 1-1/2-B WITH C.I. LID W/ 2" HOLE (OR CITY APPROVED EQUAL)

TYPICAL CITY SERVICE

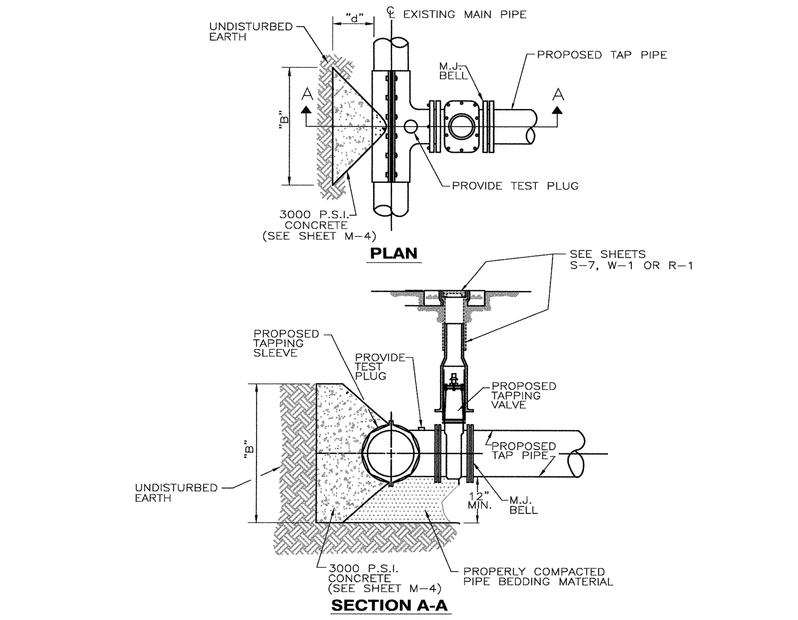


1 1/2" LANDSCAPE METER INSTALLATION DETAILS
NOT TO SCALE



NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 2 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVES ARE TO BE MJ RESTRAINTS (MEGALUG OR EQUAL)

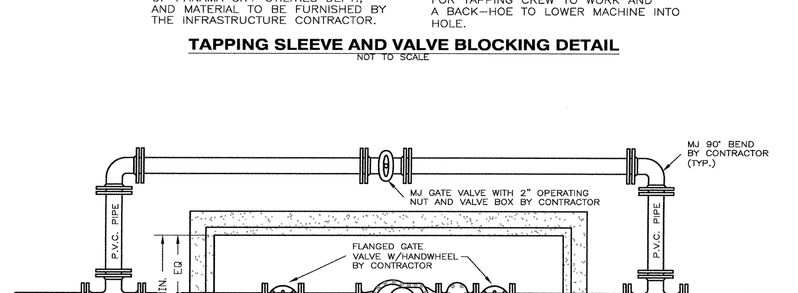
GATE VALVE DETAIL
NOT TO SCALE

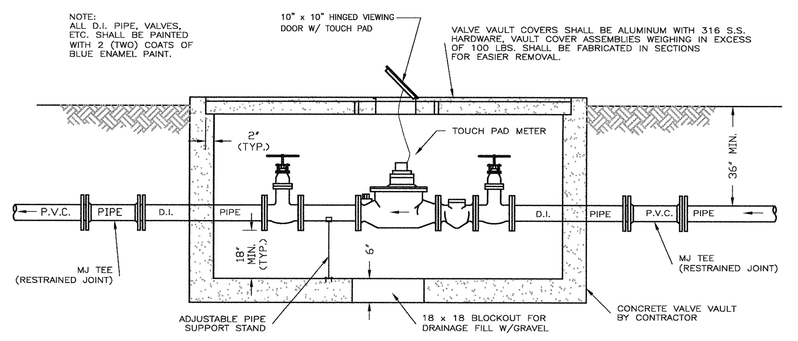


FOR DIMENSIONS "B" AND "d" SEE RU-13; THRUST BLOCK DETAILS

NOTES:
1.) NO CUTS SHALL BE MADE BEFORE:
(A) A TEST ON THE SLEEVE OF 180 P.S.I. FOR 60 MINUTES IS MADE.
(B) ALL FITTINGS TO BE WRAPPED WITH 24 MIL VISQUEEN AT THRUST BLOCK
(C) ALL TAPS TO BE MADE BY THE CITY OF PANAMA CITY UTILITIES DEPT., AND MATERIAL TO BE FURNISHED BY THE INFRASTRUCTURE CONTRACTOR.
2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.
3.) CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

TAPPING SLEEVE AND VALVE BLOCKING DETAIL
NOT TO SCALE





4" - 6" WATER METER INSTALLATION DETAIL
NOT TO SCALE

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-20-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 49303
Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988
Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

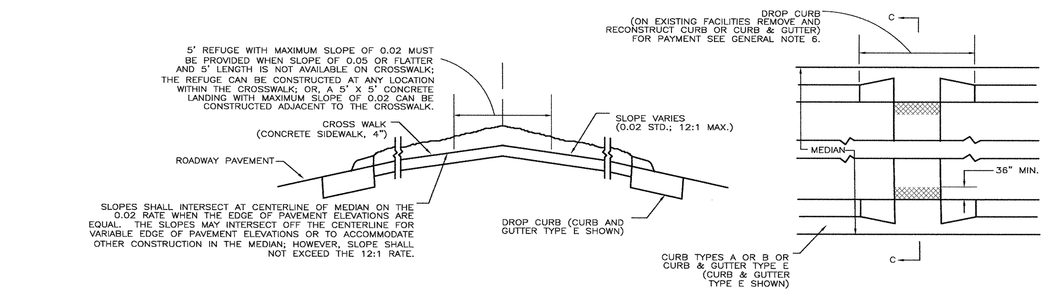
JRA Architects, Inc.
2606 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:
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Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7388
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

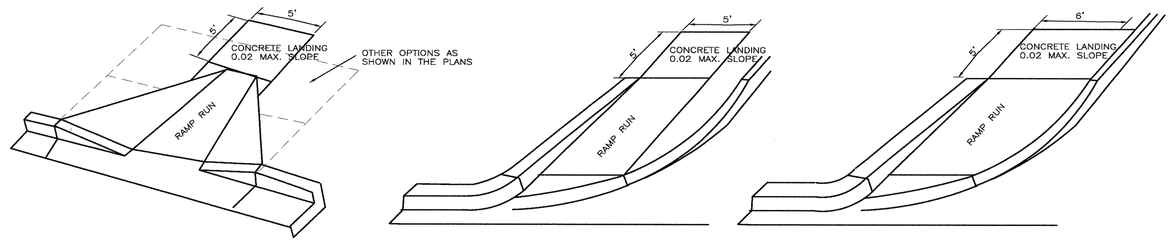
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION
C18



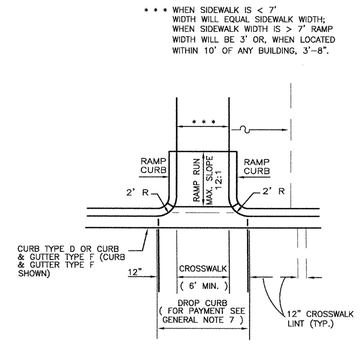
MEDIAN CROSS WALK (WITH AND WITHOUT RAMP SLOPES)



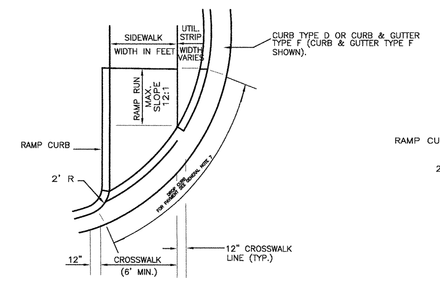
LANDINGS FOR RAMPS CONSTRUCTED AT LOCATIONS WITHOUT SIDEWALK

FDOT CURB CUT RAMPS (FDOT INDEX 304)

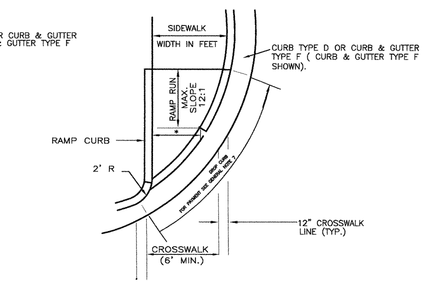
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PLAN VIEW

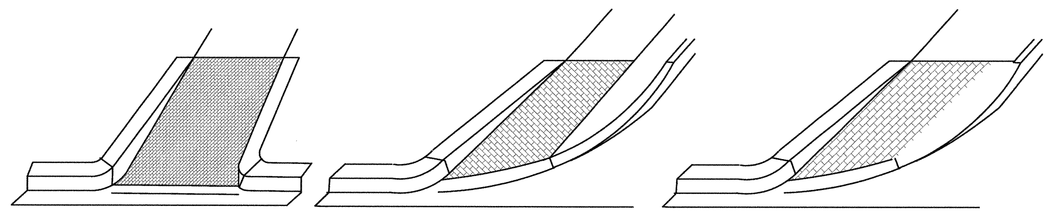


PLAN VIEW



PLAN VIEW

* 3' STD., 3'-8" WHEN RAMP IS LOCATED WITHIN 10' OF ANY BUILDING.



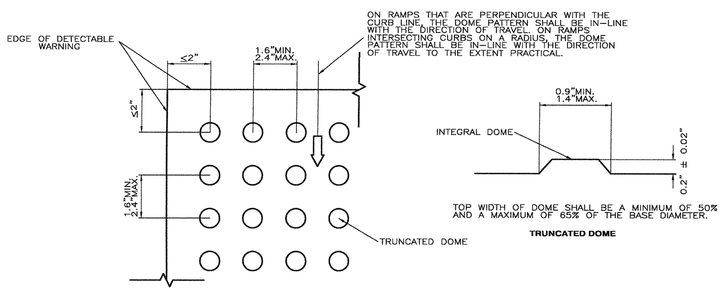
PICTORIAL VIEW

PICTORIAL VIEW

PICTORIAL VIEW

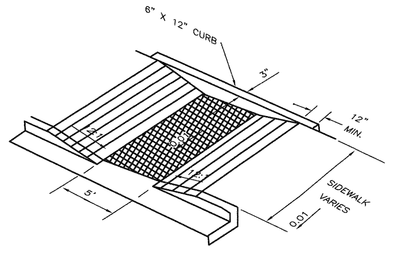
RAMPS FOR LINEAR PEDESTRIAN TRAFFIC (FDOT INDEX 304)

NOT TO SCALE

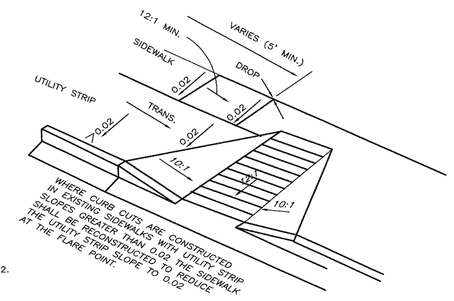


PLAN VIEW

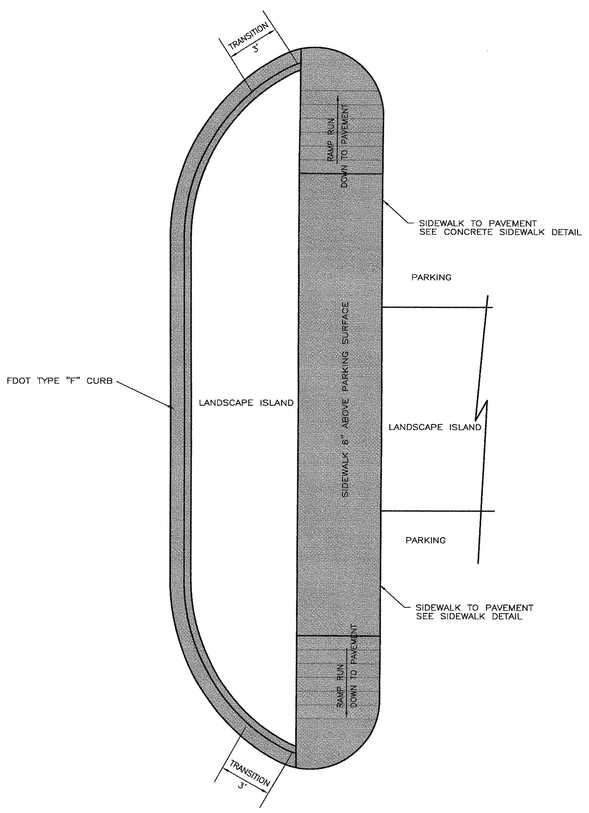
TRUNCATED DOME



1. PEDESTRIAN PATHWAYS WITH RUNNING SLOPES STEEPER THAN 20:1 ARE CONSIDERED RAMPS. RAMP RUNNING SLOPES SHALL NOT EXCEED 12:1. RAMP CROSS SLOPES SHALL NOT EXCEED 0.02.
2. THE LOCATION AND ORIENTATION OF CURB CUT RAMPS SHALL BE AS SHOWN IN THE PLANS.
3. RAMPS RUNS SHALL HAVE A TACTILE SURFACE. RAMP LANDINGS ADJOINING VEHICULAR WAYS SHALL HAVE A TACTILE SURFACE 36" WIDE BORDERING THE VEHICULAR WAY. TACTILE SURFACES SHALL BE CONSTRUCTED BY TEXTURING TO A DEPTH NOT EXCEEDING 1/8" BY USE OF A TAMP OR ROLLER FABRICATED WITH AN IMPRINTING SURFACE OF EITHER 1" MESH 0.250 WIRE CLOTH (PLAIN WEAVE, CONVENTIONAL CRIMP), #6 EXPANDED METAL (STANDARD) OR 3 LB. EXPANDED METAL GRATING. TRANSITION SLOPES ARE NOT TO HAVE TACTILE SURFACES.
4. WHERE A CURB CUT RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OF CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE DROP CURB OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.

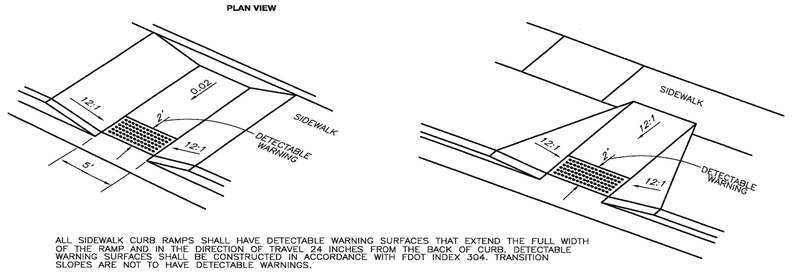


SIDEWALK UTILITY STRIP TRANSITION



STANDARD ISLAND DETAIL

NOT TO SCALE



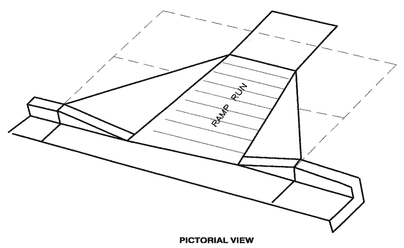
ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES FROM THE BACK OF CURB. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 304. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.

CURB RAMP DETECTABLE WARNING DETAIL (FDOT INDEX 304)

NOT TO SCALE

HANDICAP RAMP DETAIL (FDOT INDEX 304)

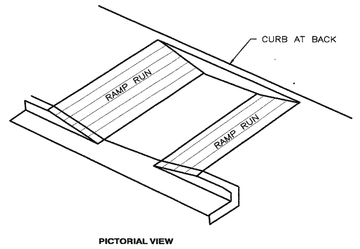
NOT TO SCALE



PICTORIAL VIEW

HR1 - HANDICAP RAMP

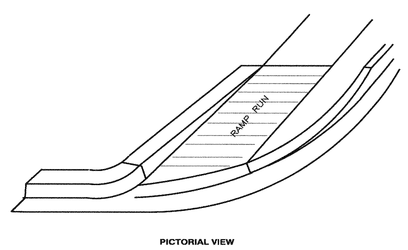
NOT TO SCALE



PICTORIAL VIEW

HR2 - HANDICAP RAMP

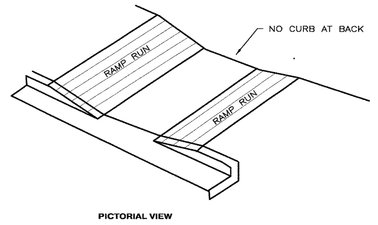
NOT TO SCALE



PICTORIAL VIEW

HR3 - HANDICAP RAMP

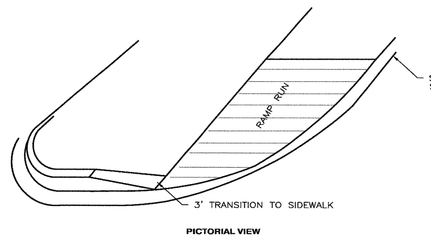
NOT TO SCALE



PICTORIAL VIEW

HR4 - HANDICAP RAMP

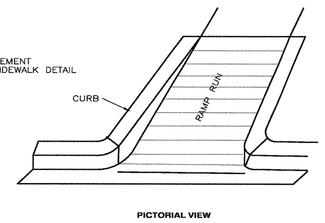
NOT TO SCALE



PICTORIAL VIEW

HR5 - HANDICAP RAMP

NOT TO SCALE



PICTORIAL VIEW

HR6 - HANDICAP RAMP

NOT TO SCALE

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E.	Robert L. Carroll, P.E.	Alan W. Kirkland, P.E.
PROFESSIONAL ENGINEER FL LC # 49303	PROFESSIONAL ENGINEER FL LC # 57988	PROFESSIONAL ENGINEER FL LC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5720
Fax: 850-763-5744

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C19

SITE IMPROVEMENTS

ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

SITE RELATED FENCING.

GUARD POSTS, GUARD RAIL AND POSTS AND SIGN POSTS LOCATED ON THE SITE.

TRAFFIC CONTROL SIGNS.

GUARD POSTS, GUARD RAIL AND POSTS AND SIGN POSTS:

STEEL SHAPES SHALL CONFORM TO ASTM A-36.

STEEL PIPE SHALL CONFORM TO ASTM A-53, E OR S, TYPE B.

STEEL PIPE SHALL CONFORM TO ASTM A-501.

SHOP COAT SHALL BE RUST INHIBITING RED OXIDE, RED LEAD OR LEAD CHROMATE OR EQUAL. IT IS THE INTENT TO PERMIT THE USE OF THE FABRICATORS STANDARD PRIME COATING.

ASPHALT BASED COATING IS NOT PERMITTED.

CONCRETE FOR SETTING FENCE AND GUARD RAIL POSTS AND SETTING AND FILLING OF SIGN AND GUARD POSTS SHALL BE PORTLAND CEMENT COMPLYING WITH ASTM C-150. AGGREGATES COMPLYING WITH ASTM C-33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI, USING AT LEAST 4 SACKS OF CEMENT PER CU. YD., 1" MAXIMUM SIZE AGGREGATES, MAXIMUM 3" SLUMP, AND 2% TO 4% ENTRAINED AIR. PREPARE TO CONFORM TO ASTM C-94

MISCELLANEOUS NOTES

THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.

THE ENGINEER HAS ATTEMPTED TO LOCATE EXISTING STRUCTURES AND EXISTING UTILITIES IN THE PROJECT AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF THESE STRUCTURES OR UTILITIES AND TO DETERMINE IF OTHER STRUCTURES OR UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION AND RELOCATION OF UTILITIES IN CONFLICT WITH NEW CONSTRUCTION BY APPROPRIATE UTILITY COMPANY.

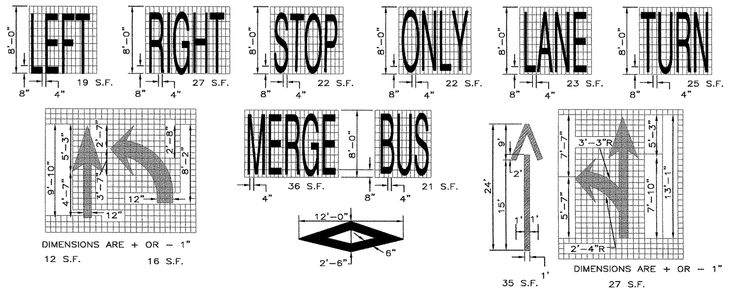
THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK IN ACCORDANCE WITH STATE STANDARDS AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.

CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING SURROUNDINGS (I.E., ASPHALT, SIDEWALKS, CURBS, ETC.) THAT ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT SHALL MATCH EXISTING.

ALL SITEWORK MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

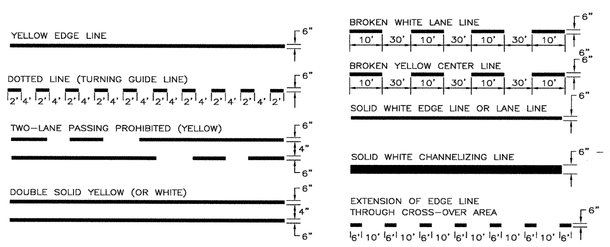
CONTRACTOR SHALL HAVE ALL PERMITS PRIOR TO CONSTRUCTION IN WETLANDS, COUNTY RIGHT OF WAY, ETC.

CONSTRUCTION PLANS ARE BASED ON FIELD SURVEY AND OTHER DATA AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS OF NEW AND EXISTING CONNECTIONS NECESSARY TO COMPLETE THE INTENT OF THE PLANS. IF THE CONTRACTOR FINDS THAT ANY PART OF THE CONSTRUCTION PLANS FALSE OR SHORT FALLS TO CONNECTIONS (WHICH DOES NOT MEET THE INTENT OF THE CONSTRUCTION PLANS). THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION. THE CONTRACTOR SHALL RELOCATE OR REMOVE OBSTACLES AS DIRECTED BY OWNER.



PAVEMENT ARROWS AND MESSAGE DETAILS

NOT TO SCALE



TYPES OF PERMANENT LONGITUDINAL LINES

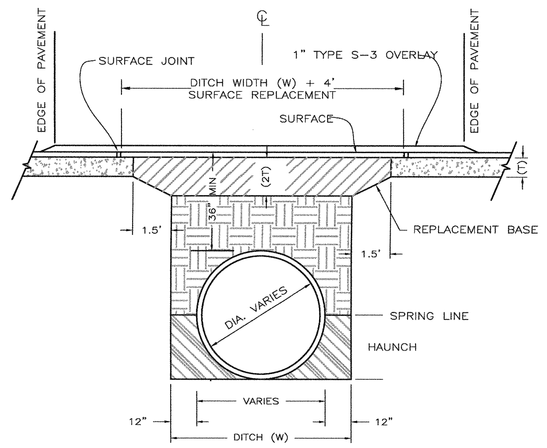
NOT TO SCALE

TEST SCHEDULE				
ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENT	TEST FREQUENCY
FILL & BACKFILL	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO M-99 ASTM D-698-70	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T-191,T-204 ASTM D-1556,D-2937	95% OF MAXIMUM DENSITY	ONE PER 150L.F. HORIZONTAL FOR EACH COMPUTED LIFT NOT TO EXCEED 12"
	GRADATION	AASHTO M-92	< 15% PASSING NO. 200	ONE PER SOIL TYPE
FILL & BACKFILL UNDER ROADWAYS AND STRUCTURES	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO M-92 ASTM D-1557	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T-191,T-204, T-238	95% OF MAXIMUM DENSITY	ONE PER 150 L.F. HORIZONTAL FOR EACH COMPACTED LIFT NOT TO EXCEED 12"
	GRADATION	AASHTO M-92	<15% PASSING NO. 200	PER SOIL TYPE
SUBGRADE	BEARING VALUES	LBR-F.D.O.T.	50 (MIN.)	ONE PER SITE OR AT MATERIAL CHANGES
	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO M-92 ASTM D-1557	N/A	PER SOIL TYPE
	FIELD DENSITY & THICKNESS	AASHTO T-238 ASTM D-2922	95% OF MAXIMUM DENSITY	ONE PER 500 L.F. HORIZONTAL OR ONE PER 750 S.Y. WITH A MINIMUM OF 3 TESTS
BASE (SAND-ASPHALT)	MARSHALL STABILITY TESTS	F.D.O.T. FM 5-511	500 LBS. (MIN.)	ONE PER SOURCE OF AS MATERIAL CHANGES
	FIELD DENSITY & THICKNESS		95% OF LAB DENSITY AS DETERMINED BY MARSHALL METHOD	ONE PER 500 L.F. HORIZONTAL OR ONE PER 750 S.Y. WITH A MINIMUM OF 3 TESTS
ASPHALT	MATERIALS QUALITY	AASHTO T-164,T-30	FDOT SPEC 330,331,916	FDOT SPEC 331,916
	BITUMEN CONTENT & GRADATION	ASTM D-2172	FDOT SPEC 330,331,916	ONE PER DAY FOR GRADATION
	AGGREGATE CERTIFICATION	N/A	FDOT SPEC 901,902	ONE PER SUPPLIER
	MARSHALL STABILITY & DENSITY	AASHTO T-238	FDOT SPEC 330, 331	ONE PER DAY
CONCRETE (MISC. SITE WORK)	SLUMP TEST	AASHTO T-119	3" TO 4"	AS REQUIRED BY SOILS ENGINEER OR ONE PER SET OF CYLINDERS
	COMPRESSIVE STRENGTH	AASHTO T-23	4000 PSI	ONE SET OF 3 CYLINDERS PER 100 C.Y. PER DAY
	AIR CONTENT	AASHTO T-199	3% TO 6%	ONE PER SET OF CYLINDERS

NOTE: 1. CONCRETE FOR SITE WORK INCLUDES BUT IS NOT LIMITED TO CURB, CURB & GUTTER, SIDEWALKS, CONCRETE PAVING, ETC.
2. THIS TEST SCHEDULE APPLIES TO SITE WORK ONLY. SEE ARCHITECT'S SPECIFICATIONS FOR FOUNDATION/BUILDING TESTING.
3. TEST FREQUENCY FOR HORIZONTAL DISTANCES ARE BASED ON AN AVERAGE 24 FOOT WIDE ROADWAY.

MATERIALS TEST SCHEDULE

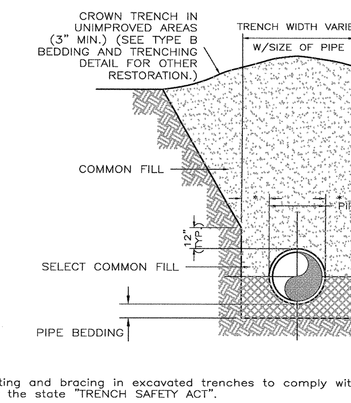
NOT TO SCALE



1. Sheeting and bracing in excavated trenches to comply with the manufacturer specifications, and must meet the state "TRENCH SAFETY ACT".
2. All pipe to be installed as per the lines, grades, and slopes called for in the plans, and at a minimum of 36 inches below the top of pavement.
3. Hand tamp the fill material in the haunch area that cannot be reached by mechanical tampers.
4. For concrete pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-180, Method C. For metal and plastic pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-99, Method C.
5. Compact and stabilize the remaining backfill, in 6 inch layers, to a density of at least 98% of the maximum density as determined by AASHTO T-180.
6. The existing asphalt is to be sawed mechanically and removed to leave neat lines a minimum of 1.5 feet wider on each side of the trench cut.
7. if the existing base is not an asphaltic base, it is to be replaced with the same material at twice the thickness of the existing base, in 6 inch layers, and compacted to a density of at least 95% of the maximum density as determined by AASHTO T-180.
8. if the existing base is an apshaltic base, it is to be replaced with a minimum of 5 inches of ABC-III and meet the requirements of the FDOT Standard Specifications for Road and Bridge Construction, specifications 330 and 331.
9. The surface course is to be replaced consistent with the existing surface course. The length of the trench cut is to be overlayed with 1 inch Type S-3 asphalt (or an appropriate, approved superpave mix) the width of the existing pavement and feathered at the sides and the ends.
10. Contractor to place a woven or non-woven filter fabric (Type D-3) around the hubbed joint of all concrete pipe to prevent potential soil infiltration.
11. Water will not be permitted in the trench during construction. Dewater as necessary during placement.

TRENCH TYPE "B" (BELOW EXISTING PAVEMENT)

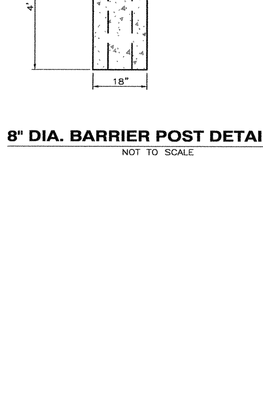
NOT TO SCALE



1. Sheeting and bracing in excavated trenches to comply with the manufacturer specifications, and must meet the state "TRENCH SAFETY ACT".
2. All pipe to be installed as per the lines, grades, and slopes called for in the plans, and at a minimum of 36 inches below the top of the finish grade.
3. (*)The width of the trench is to be kept to a maximum of 24 inches wider than the outside diameter of pipe less than 24 inches, or a maximum of 48 inches wider than the outside diameter of pipe greater than 24 inches.
4. If the trench is undercut or unsuitable material is encountered, bedding material (select common fill or bedding rock) is to be utilized and left in a loose condition below the middle third of the outside diameter of the pipe. The remainder of the trench bottom is to be compacted to a minimum of 95% of the maximum density as determined by AASHTO T-180.
5. When bedding material is to be utilized, it is to be installed at a minimum depth of 4 inches below the bottom of the pipe.
6. If the trench is not undercut, excavate for the pipe bells before laying the pipe.
7. The pipes are to be installed so that the bell of the pipe is facing upstream to the direction of flow.
8. Hand tamp the fill material in the haunch area that cannot be reached by mechanical tampers.
9. For concrete pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-180, Method C. For metal and plastic pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-99, Method C.
10. Compact and stabilize the remaining backfill, in 6 inch layers, to a density of at least 98% of the maximum density as determined by AASHTO T-180.
11. Contractor to place a woven or non-woven filter fabric (Type D-3) around the hubbed joint of all concrete pipe to prevent potential soil infiltration.
12. Water will not be permitted in the trench during construction. Dewater as necessary during placement.

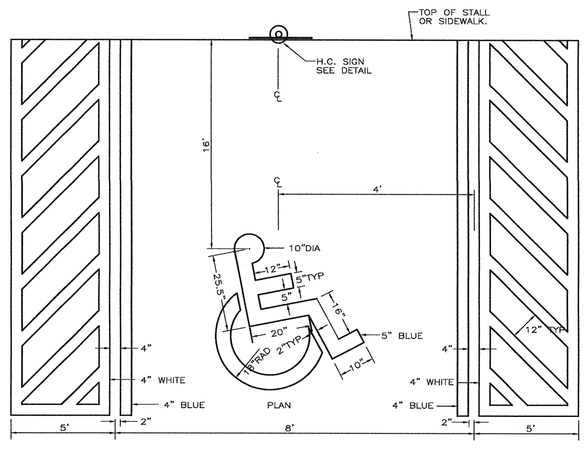
TRENCH TYPE "A" (BELOW EXISTING GRADE)

NOT TO SCALE



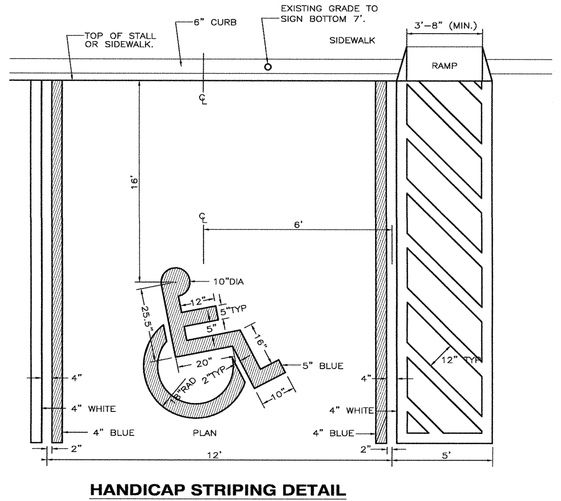
8" DIA. BARRIER POST DETAIL

NOT TO SCALE



HANDICAP STRIPING DETAIL

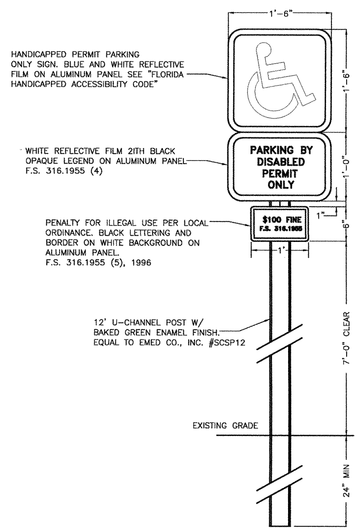
NOT TO SCALE



HANDICAP STRIPING DETAIL

NOT TO SCALE

NOTE: EACH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY" OR BEARING BOTH SUCH SYMBOLS AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS BY THE DEPARTMENT OF TRANSPORTATION.



NOTE: COLOR CONTRAST CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

H.C. SIGN POST DETAIL

NOT TO SCALE

NO.	DATE	BY	REVISIONS

Sean D. McNeil P.E. PROFESSIONAL ENGINEER FL LC # 49303

Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57908

Alan W. Kirkland, P.E. PROFESSIONAL ENGINEER FL LC # 61729

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	T.A. ERB	JMS	03-29-07
DESIGN DEVELOPMENT	T.A. ERB	JMS	06-06-07
DD OWNER REVIEW	T.A. ERB	JMS	08-08-07
75% CONSTRUCTION DOCUMENTS	T.A. ERB	JMS	11-16-07

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

McNEIL CARROLL ENGINEERING, INC.
475 Harrison Avenue, Suite 200
Panama City, Florida 32401
Phone: 850-763-5730
Fax: 850-763-5744
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 7288

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

PRELIMINARY
PLANS SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

C20

BAY COUNTY ADMINISTRATION BUILDING

FOR

BAY COUNTY BOARD OF COMMISSIONERS

PANAMA CITY, FLORIDA



JRA Architects, Inc.

2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
(850) 236-9832
(850) 230-3584

Commission Number: 06318

75% CONSTRUCTION DOCUMENTS

NOVEMBER 16, 2007

BAY COUNTY BOARD OF COUNTY COMMISSIONERS

DISTRICT 1	*	Mike Nelson
DISTRICT 2	*	George B. Gainer
DISTRICT 3	*	William T. Dozier
DISTRICT 4	*	Jerry L. Girvin
DISTRICT 5	*	Mike Thomas

CONSULTANTS:

STRUCTURAL

STANLEY D. LINDSEY AND ASSOCIATES, LTD.
1801 WEST END AVE., SUITE 400
NASHVILLE, TN 37203
BUS: 615-320-1735
FAX: 615-320-0387

HVAC/PLUMBING

CONSULTING ENGINEERING ASSOCIATES, INC.
8365 GUNN HIGHWAY
TAMPA, FL 33626
BUS: 813-448-0225
FAX: 813-448-0226

ELECTRICAL

CONSULTING ENGINEERING GROUP, INC.
8840 NORTH FLORIDA AVE.
TAMPA, FL 33604
BUS: 813-936-0796
FAX: 813-936-0799

CIVIL

MCNEIL CARROLL ENGINEERING
475 HARRISON AVE., SUITE 200
PANAMA CITY, FL 32401
BUS: 850-763-5730
FAX: 850-763-5744

SURVEY

BUCHANAN & HARPER, INC.
735 W. 11TH STREET
PANAMA CITY, FLORIDA 32401
BUS: 850-763-7427
FAX: ----

ENVIRONMENTAL

MCNEIL ENGINEERING
475 HARRISON AVE., SUITE 200
PANAMA CITY, FL 32401
BUS: 850-763-5730
FAX: 850-763-5744

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK PROVIDED FOR THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NFPA-70), EDITION 2002, STANDARD BUILDING CODE, LOCAL CODES, ALL OTHER APPLICABLE CODES AND ORDINANCES AND THE FOLLOWING CRITERIA:

   (A) TRADE SIZE CONDUIT SMALLER THAN 3/4 INCH SHALL NOT BE USED.
   (B) CONDUIT ABOVE GRADE AND NOT EXPOSED TO WEATHER SHALL BE ELECTRICAL METALLIC TUBING (EMT). FITTING SHALL BE COMPRESSION TYPE.
   (C) CONDUIT BELOW GRADE SHALL BE GALVANIZED RIGID STEEL.

   (D) CONDUIT ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE GALVANIZED RIGID STEEL METAL CONDUIT.
   (E) WIRE SIZE SMALLER THAN #12 AWG SHALL NOT BE USED FOR POWER AND LIGHTING CIRCUITS.
   (F) ALL WIRING PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE COPPER.
   (G) ALL CONDUCTORS SHALL HAVE A MINIMUM TEMPERATURE RATING OF 90 DEGREES CELSIUS, TYPE THWN OR THHN.
   (H) ALL CONDUIT SHALL BE RUN CONCEALED BELOW GRADE, WITHIN WALLS OR ABOVE CEILING UNLESS IT IS SHOWN OTHERWISE.
   (I) ALL CONDUCTORS SHALL BE STRANDED.

   (J) THERE SHALL BE NO MORE THAN 270 DEGREES TOTAL TURN OR 100 FEET BETWEEN PULL POINT IN CONDUIT RUNS.

2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PERMITS FOR ELECTRICAL WORK AND FOR SCHEDULING ELECTRICAL INSPECTIONS.
3. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED FOR A COMPLETE INSTALLATION AND FOR PROPER OPERATION OF ELECTRICAL SYSTEMS, INCLUDING ALL WORK REQUIRED BY CODE OR REGULATORY AGENCIES.
4. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR AND MAKE NECESSARY CONNECTIONS FOR TEMPORARY POWER AS REQUIRED FOR CONSTRUCTION. IF TEMPORARY POWER REQUIREMENTS ARE NOT CLEARLY DEFINED IN THE CONTRACT DOCUMENTS, THEN THE CHANGE ORDER PROCEDURE WILL BE USED TO DEFINE THE WORK.
5. THE ELECTRICAL CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE ELECTRIC UTILITY COMPANY FOR SERVICE CONNECTIONS.
6. SOME SAFETY DISCONNECT SWITCHES MAY BE PROVIDED BY THE MECHANICAL CONTRACTOR BUT INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. THIS WORK SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.
7. CONDUIT WHICH PENETRATES THE ROOF OR EXTERIOR WALL SHALL BE FLASHED AND SEALED WATERTIGHT.
8. BURIED CONDUIT NOT UNDER SLAB SHALL HAVE A MINIMUM COVER OF 24 INCHES.
9. FOR EACH PANELBOARD, PROVIDE A TYPED CIRCUIT SCHEDULE TO BE PLACED INSIDE THE PANELBOARD DOOR WITH EXACT ROOM NAME AND DEVICE SERVED.
10. UNLESS NOTED OTHERWISE:
    (A) LIGHT SWITCHES SHALL BE CENTERED 42 INCHES A.F.F.
    (B) RECEPTACLES SHALL BE CENTERED 18 INCHES A.F.F.
11. WALL RECEPTACLES SHALL NOT BE INSTALLED "BACK-TO-BACK", MIN. 4" OFFSETS.
12. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, AND ALL LAMPS SHALL BE OPERABLE AT TIME OF FINAL INSPECTION.
13. CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS OF ALL ELECTRICAL DEVICES.
14. MINIMUM SIZE CONDUCTOR SHALL BE #10 FOR ALL POWER BRANCH CIRCUITS.
15. BRANCH CIRCUITS OF 20A SHALL BE #10 MINIMUM WIRE SIZE FOR NEUTRAL CONDUCTOR.
16. BRANCH CIRCUITS FOR RECEPTACLES SHALL HAVE SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR
17. J BOX HEIGHT CAN BE NO MORE THAN 3 TO 5 FEET ABOVE FINISHED CEILING.
18. EMT FITTINGS SHALL BE SET SCREW TYPE FOR INTERIOR LOCATIONS AND COMPRESSION TYPE FOR EXTERIOR LOCATIONS.
19. CONTRACTOR SHALL NOTIFY OWNER A MINIMUM OF 24 HOURS OF ANY POWER INTERRUPTION THAT MAY DISRUPT MOSQUITO CONTROL OPERATIONS

ELECTRICAL LEGEND AND SYMBOLS LIST

LIGHTING FIXTURES

- (A) FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE (2x4)
- (B) INCANDESCENT OR HID CEILING DECORATIVE LIGHT FIXTURE, LETTER INDICATES TYPE
- C WALL BRACKET DECORATIVE LIGHT FIXTURE, LETTER INDICATES TYPE
- (X) BATTERY POWERED EXIT LIGHT
- FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE (1x4)
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY BATTERY POWER

DEVICES

- $ SINGLE POLE SWITCH, GENERAL PURPOSE MOUNT 42" A.F.F. U.O.N. NEW
- $3 THREE WAY SWITCH, MOUNT 42" A.F.F. U.O.N.
- DUPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.
- DUPLEX RECEPTACLE, MOUNT 6" ABOVE COUNTER BACKSPLASH U.O.N SEE ARCHITECTURAL CONTER DETAILS FOR CONTER HEIGHTS
- 30 SINGLE PHASE, 250V. RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.
- GF GROUND FAULT INTERRUPTER RECEPTACLE, LEVITON #6898-I, MOUNT 6" ABOVE COUNTER BACKSPLASH U.O.N. - SEE ARCHITECTURAL COUNTER DETAILS FOR COUNTER HEIGHTS
- (J) JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N.)
- LIGHTING OR POWER PANELBOARD, SURFACE MOUNTED
- LIGHTING OR POWER PANELBOARD, FLUSH MOUNTED
- $D DIMMER, 800W, 42" A.F.F., U.O.N.
- $M MOTOR RATED SWITCH - 20/1, MOUNT AS REQUIRED.
- $P, $L FOUR WAY SWITCH, MOUNT 42" A.F.F. U.O.N.
- DATA/TELEPHONE OUTLET, PROVIDE TWO GANG BOX WITH (2) 1" C. TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. MOUNT CENTERLINE 18" AFF
- W WALL MOUNTED TELEPHONE OUTLET MOUNT CENTER LINE 48" AFF
- TELEVISION OUTLET MOUNT CL 18" AFF
- IG DUPLEX RECEPTACLE w/ISOLATED GROUND, MOUNT 18" A.F.F. U.O.N.

ABBREVIATIONS

EG	EQUIPMENT GROUND	NL	NIGHT LIGHT
IG	ISOLATED GROUND	PC	PULL CHAIN
WP	WEATHERPROOF	C/T	CURRENT TRANSFORMER
EWH	ELECTRIC WATER HEATER	EC	EMPTY CONDUIT
EWC	ELECTRIC WATER COOLER	AFF	ABOVE FINISH FLOOR
E/F-EF	EXHAUST FAN	AFG	ABOVE FINISH GRADE
A/H-AHU	AIR HANDLING UNIT	U.O.N.	UNLESS OTHERWISE NOTED
ACC-CU	CONDENSING UNIT	N.T.S.	NOT TO SCALE
E	EXISTING EQUIPMENT	N.I.C.	NOT IN CONTRACT

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN. U.O.N.

NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW LIGHTING PLANS, POWER PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.

DEVICES

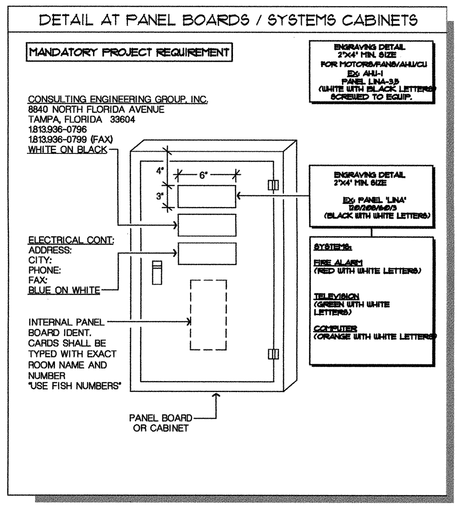
- #2 CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH 2 #10, 1 #10 EG. CONDUCTORS IN 3/4 " CONDUIT MIN. U.O.N.
- #2 CONDUIT CONCEALED IN COUNTER CONSTRUCTION 3/4 " CONDUIT MIN. U.O.N.
- #2 CONDUIT CONCEALED IN FLOOR 3/4 " CONDUIT MIN. U.O.N.
- (#2) FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH
- #2 EQUIPMENT GROUND CONDUCTOR
- #2 #10 CONDUIT HOME RUN EXPOSE, CONCEALED OR UNDERGROUND AS INDICATED. HATCH MARKS INDICATED NO. OF CONDUCTORS INCLUDING HOT, NEUTRAL AND GROUND.
- DISCONNECT SWITCH, SURFACE MOUNTED, TOP AT 6'-0" A.F.F., MAXIMUM SIZE AND TYPE AS NOTED.
- 100/3/60 DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED; CL/TD INDICATES DUAL ELEMENT FUSES.
- T THERMOSTAT. PROVIDE SINGLE GANG BOX WITH 1/2 " C. STUBBED INTO CEILING SPACE, MOUNT 60" A.F.F. U.O.N. (COORDINATE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN)
- IG #2 ISOLATED EQUIPMENT GROUND CONDUCTOR
- TELEPHONE BACKBOARD WITH #6 CU. GROUND (SIZE AS NOTED)
- EXHAUST FAN
- TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT CONDUIT TO ABOVE CEILING MOUNT, 80" A.F.F. TV AND BRACKET FURNISHED BY OWNER. VERIFY MOUNTING HEIGHT w/OWNER
- QUADRAPLEX RECEPTACLE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
- FIRE ALARM SYSTEM DUCT DETECTOR
- FIRE ALARM SYSTEM SMOKE DETECTOR
- FIRE ALARM SYSTEM PULL STATION
- FIRE ALARM SYSTEM SPEAKER/STROBE COMBINATION
- FIRE ALARM RELAY FOR FAN SHUT DOWN - N/O FAIL SAFE VERIFY REQUIREMENTS w/ FIRE ALARM SUPPLIER AND MECHANICAL
- FIRE ALARM SYSTEM FLOW SWITCH
- FIRE ALARM SYSTEM TAMPER SWITCH

NOTE: SYMBOLS SHOWN ARE GENERAL SYMBOLS. SEE DRAWINGS FOR SPECIFIC SYMBOLS AND SPECIFICATIONS.

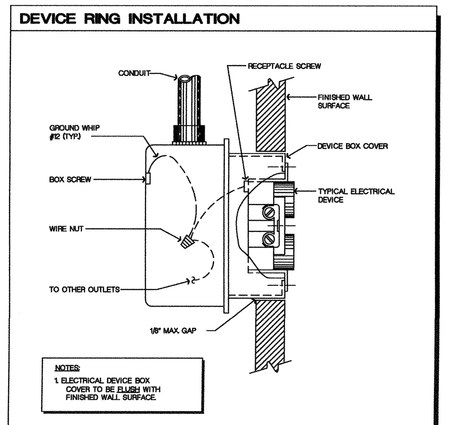
VERIFY ALL MOUNTING HEIGHTS w/ARCHITECT PRIOR TO INSTALLATION

MOUNTING HEIGHTS SHOWN ARE MAXIMUM / MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION

DETAIL AT PANEL BOARDS / SYSTEMS CABINETS



DEVICE RING INSTALLATION



FIRE ALARM GENERAL NOTES:

1. OBSERVE POLARITY OF SMOKE DETECTORS, SPEAKERS, HORNS, LIGHTS AND ETC,
2. DO NOT "T" TAP WIRING CONNECTIONS UNLESS SHOWN.
3. ALL WIRES MUST TEST FREE OF GROUNDS AND SHORTS.
4. CABLE SHIELDS MUST TEST FREE OF GROUNDS AND SHORTS. TERMINATE SHIELDS IN FACP ONLY.
5. MARK SPARE WIRES WITH "SPARE" AND TERMINATE IN AN APPROVED MANNER.
6. MARK ALL WIRES WITH ZONE OR CIRCUIT DESIGNATIONS, i.e., ZONE 2 WIRES WILL BE MARKED "2" (TYPICAL ALL ZONES AND CIRCUITS).
7. ALL WIRE MARKERS AND STRIPES MUST BE VISIBLE IN ALL JUNCTION, DEVICE AND CONTROL BOXES.
8. DO NOT RUN CIRCUITS INTO BOTTOM OR SIDES OF CONTROL EQUIPMENT.
9. THE INSTALLER SHALL CONTACT VENDOR AT LEAST (5) FIVE DAYS PRIOR TO ANY DESIRED CHECK-OUT TO ALLOW FOR SCHEDULING OF THE TECHNICIANS.
10. THE INSTALLING COMPACT SHALL MAKE AVAILABLE THE INSTALLER FOR WIRING THE SYSTEM. THIS PERSON MUST BE PRESENT AT FINAL CHECKOUT TO IDENTIFY ALL WIRES LEADING INTO THE CONTROL PANEL.
11. ALL SMOKE DETECTORS ARE TO BE PROTECTED FROM JOB SITE ELEMENTS UNTIL FINAL CHECKOUT. NOTE: PHOTOELECTRIC AND IONIZATION DETECTOR HEADS SHOULD NOT BE INSTALLED IN THE BASES UNTIL JUST PRIOR TO THE FINAL SYSTEM TESTS. DUST, PAINTS AND OTHER CONTAMINANTS FROM CONSTRUCTION MAY DAMAGE THESE DEVICES AND REQUIRE FACTORY CLEANING OR REPLACEMENT WHICH ARE NOT PART OF THE SIMPLEX SYSTEM WARRANTY".
12. EXACT DEVICE LOCATIONS ARE SHOWN ON CONTRACT DRAWINGS.
13. RELAYS, RELAY IAMS AND CONTROL ZAMS SHALL BE LOCATED WITHIN (3) THREE FEET OF CONTROLLED DEVICE.

ELECTRICAL COORDINATION GENERAL NOTES:

**NOTE: SEE ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR EXACT CEILING LAYOUT.
SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT LOCATION AND REQUIREMENTS - ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY FOR EQUIPMENT ELECTRICAL INTERCONNECTIONS. DO NOT SCALE ELECTRICAL DRAWINGS.
MECHANICAL CONTROLS BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR BUILDING MANAGEMENT INTERFACE REQUIREMENTS TO LIGHTING, FIRE ALARM, ETC. PROVIDE ALL INTERFACING AS REQUIRED BY BUILDING MANAGEMENT SYSTEM AND MECHANICAL DRAWINGS AND SPECIFICATION.
FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE COMPLETE SHOP AND WIRING DIAGRAMS (WITH CONDUIT SIZES).**

FIRE ALARM SHOP DRAWING REQUIREMENTS:

CONTRACTOR SHALL INCLUDE IN HIS OR HER BID COMPLETE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE ALL EQUIPMENT CUT SHEETS FOR PROPOSED EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE FLOOR PLANS SHOWING ALL DEVICES, CONDUIT RUNS, WIRING REQUIREMENTS TO MEET THE REQUIREMENTS OF LOCAL BUILDING DEPARTMENT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER AND SUBMITTED TO LOCAL BUILDING AUTHORITY. CONSULTING ENGINEERING GROUP SHALL PROVIDE LETTER TO ENGINEER RELEASING DRAWINGS AND LIABILITY OVER TO NEW ENGINEER OF RECORD PER FLORIDA STATUES. NEW FIRE ALARM SYSTEM SHALL BE COMPATIBLE WITH EXISTING SYSTEM.

**NOTE: SEE ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR EXACT CEILING LAYOUT.
SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT LOCATION AND REQUIREMENTS - ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY FOR EQUIPMENT ELECTRICAL INTERCONNECTIONS. DO NOT SCALE ELECTRICAL DRAWINGS.
MECHANICAL CONTROLS BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR BUILDING MANAGEMENT INTERFACE REQUIREMENTS TO LIGHTING, FIRE ALARM, ETC. PROVIDE ALL INTERFACING AS REQUIRED BY BUILDING MANAGEMENT SYSTEM AND MECHANICAL DRAWINGS AND SPECIFICATION.
FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE COMPLETE SHOP AND WIRING DIAGRAMS (WITH CONDUIT SIZES).**

FIXTURE SCHEDULE

MARK/MANUFACTURER CATALOG NUMBER/VOLTAGE/LAMP/MOUNTING - REMARKS

A LIGHTOLIER / #A1B(AS REQD)C54WH / 120V /(1) 54W T5 HO 3000k / AIRCRAFT CABLE LENGTH AS SPECIFIED BY ARCHITECT
A1 LIGHTOLIER / #A1B(AS REQD)C54WH / 120V /(1) 28W T5 HO 3000k / AIRCRAFT CABLE LENGTH AS SPECIFIED BY ARCHITECT
B LIGHTOLIER / #MBS2GPW154120 / 120V / (1) 54W T5 HO 3000k / LAY-IN
C LIGHTOLIER / #602ICCLW/S6132BU / 120V / 32W TRIPLE TUBE 3000k / FLUSH
D LIGHTOLIER / #SPS2G2FSV1232UNVHGLR / 120V / (2) 32W T8 3000k / LAY-IN
E LIGHTOLIER / #MBS2GPW224120 / 120V / (2) 24W T5 HO 3000k / CEILING SURFACE
G LIGHTOLIER / #KW4S232UNVHGLR / 120V/ (2) 32W T8 3000k / CEILING SURFACE
H LIGHTOLIER / #C4CEX3974EUCASS / 120V/ (1) 39W MH / CEILING SURFACE
J LIGHTOLIER / #XP2GV126UUNVH / 120V / (2) 32W T8 U 3000k / LAY-IN
CH LAM / # LDL29339BNRB24AB120ALB / 120V / (3) 39W BX LAMPS PER ASSEMBLY 3000k / CEILING SURFACE 24" LENGTH
CH1 LAM / # LDL416555BNRB24AB120ALB / 120V / (6) 55W BX LAMPS PER ASSEMBLY 3000k / CEILING SURFACE 24" LENGTH
X1 LIGHTOLIER / #LLAURW / 120V / LED / CEILING OR WALL AS SHOWN - PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED
SA WIDELITE / #AL3M400HS208F2FSSHAL3BLK / 208V / (1) 400W MH / CONCRETE POLE 30' AFG (SUBMIT POLE FOR APPROVAL)

NOTE: VERIFY ALL FIXTURE MOUNTING HEIGHTS AND LOCATION w/ARCHITECT & ARCHITECTURAL REFLECTED CEILING DRAWINGS PRIOR TO INSTALLATION
ALL FIXTURES SHALL HAVE ELECTRONIC BALLAST & FUSING
PROVIDE BATTERY BACK UP IN FIXTURES INDICATED

DRAWING INDEX

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E2.1A FIRST FLOOR ZONE A POWER
E2.1B FIRST FLOOR ZONE B POWER
E2.1C FIRST FLOOR ZONE C POWER
E2.2A SECOND FLOOR ZONE A POWER
E2.2B SECOND FLOOR ZONE B POWER
E2.2C SECOND FLOOR ZONE C POWER
E2.3A THIRD FLOOR ZONE A POWER
E3.1A FIRST FLOOR ZONE A LIGHTING
E3.1B FIRST FLOOR ZONE B LIGHTING
E3.1C FIRST FLOOR ZONE C LIGHTING
E3.2A SECOND FLOOR ZONE A LIGHTING
E3.2B SECOND FLOOR ZONE B LIGHTING
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E3.3A THIRD FLOOR ZONE A LIGHTING
E4.1A FIRST FLOOR ZONE A SYSTEMS
E4.1B FIRST FLOOR ZONE B SYSTEMS
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E4.2B SECOND FLOOR ZONE B SYSTEMS
E4.2C SECOND FLOOR ZONE C SYSTEMS
E4.3A THIRD FLOOR ZONE A SYSTEMS
E7.0 ELECTRICAL RISER DIAGRAM
E7.1 ELECTRICAL SCHEDULES & DETAILS
E7.2 ELECTRICAL SCHEDULES & DETAILS

LEGEND / NOTES / DETAILS / SPECIFICATIONS

SCALE: NONE

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

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FAX: (850) 230-3584
Commission Number: 06318

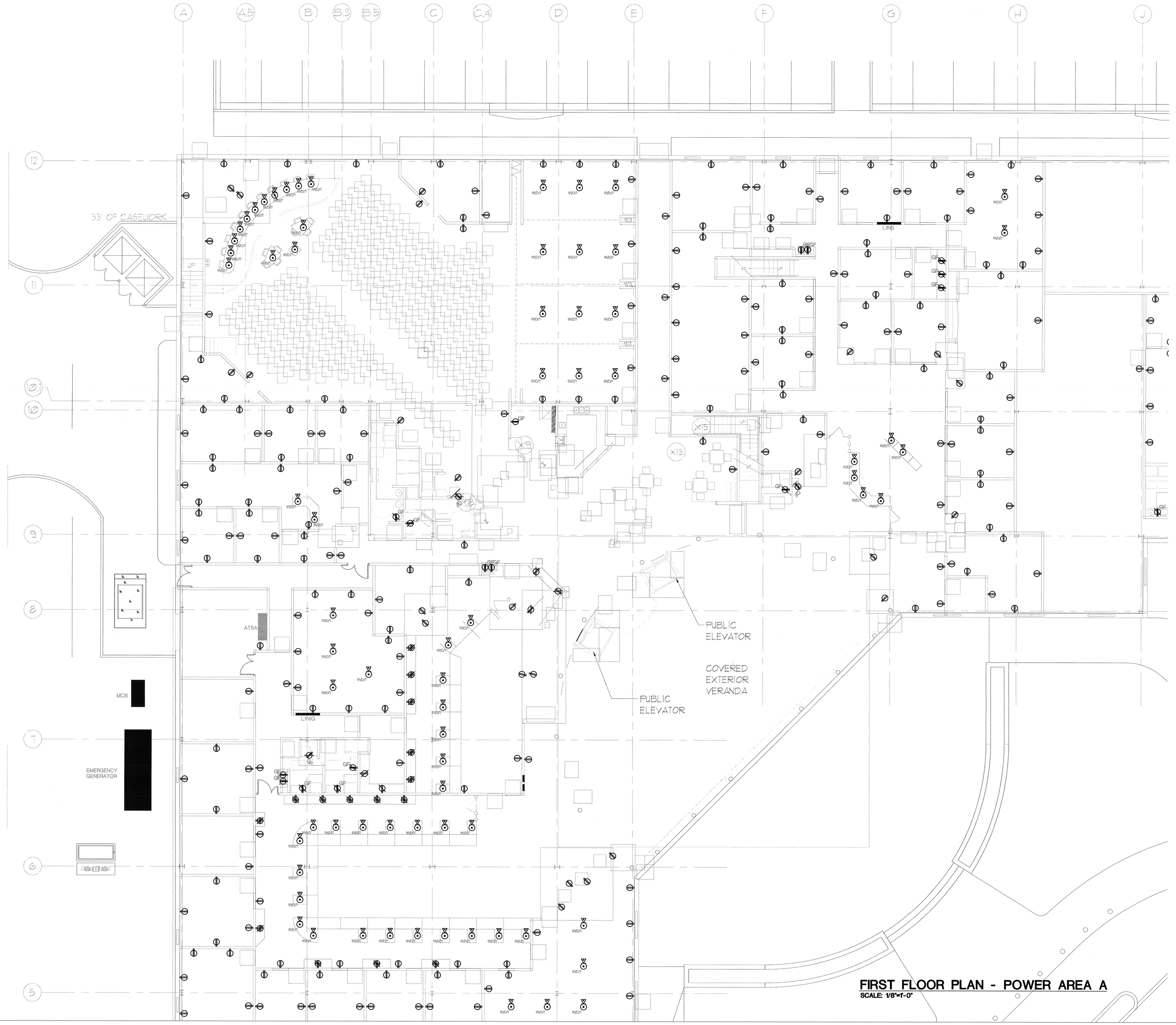
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8940 NORTH FLORIDA AVE.
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813.936.0796
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EMAIL: CEGITAMPA@ATT.BELLSOUTH.NET
EMAIL: CEGI@TAMPABAY.RR.COM
COA # EB-0007172

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ELECTRICAL LEGEND

SHEET NUMBER:
E1.0



FIRST FLOOR PLAN - POWER AREA A

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

REVISIONS:

NO.	DESCRIPTION	BY/INITIALS	APPROVED	DATE

PHASE:	BY/INITIALS	APPROVED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-21
DESIGN DEVELOPMENT	WHP	BB	06-06-21
DD OWNER REVIEW	WHP	BB	08-06-21
75% OWNER REVIEW	WHP	BB	11-16-21
----	-	-	----

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813.961.2790
WEBSITE: CEGITAMPA.COM
CGA # EB-8617772

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A ELECTRICAL POWER

SHEET NUMBER:

E2.1A



FIRST FLOOR PLAN - POWER AREA B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BJB	03-26-07
DESIGN DEVELOPMENT	WHP	BJB	06-06-07
DD OWNER REVIEW	WHP	BJB	08-06-07
75% OWNER REVIEW	WHP	BJB	11-16-07
----	-	-	----

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Commission Number: 06318

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813.238.2599 (FAX)
EMAIL: CEGI@TAMPABAY.RR.COM
WEBSITE: CEGITAMPA.COM
CGA # EB 0007721

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

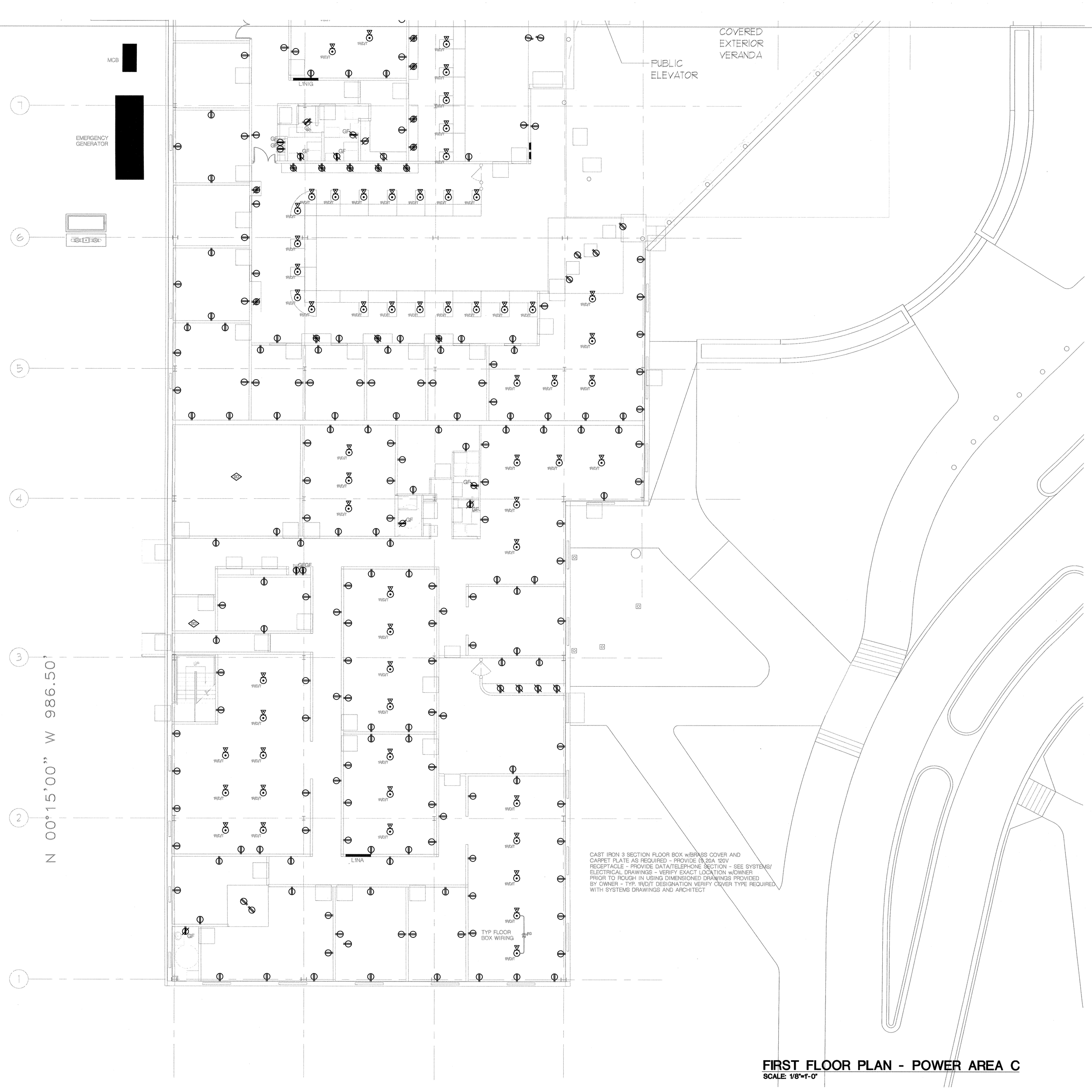
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B
ELECTRICAL POWER

SHEET NUMBER:

E2.1B



CAST IRON 3 SECTION FLOOR BOX w/BRASS COVER AND CARPET PLATE AS REQUIRED - PROVIDE (1) 20A 120V RECEPTACLE - PROVIDE DATA/TELEPHONE SECTION - SEE SYSTEMS/ ELECTRICAL DRAWINGS - VERIFY EXACT LOCATION w/OWNER PRIOR TO ROUGH IN USING DIMENSIONED DRAWINGS PROVIDED BY OWNER - TYP. 1RD/T DESIGNATION VERIFY COVER TYPE REQUIRED WITH SYSTEMS DRAWINGS AND ARCHITECT

FIRST FLOOR PLAN - POWER AREA C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

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Commission Number: 06318

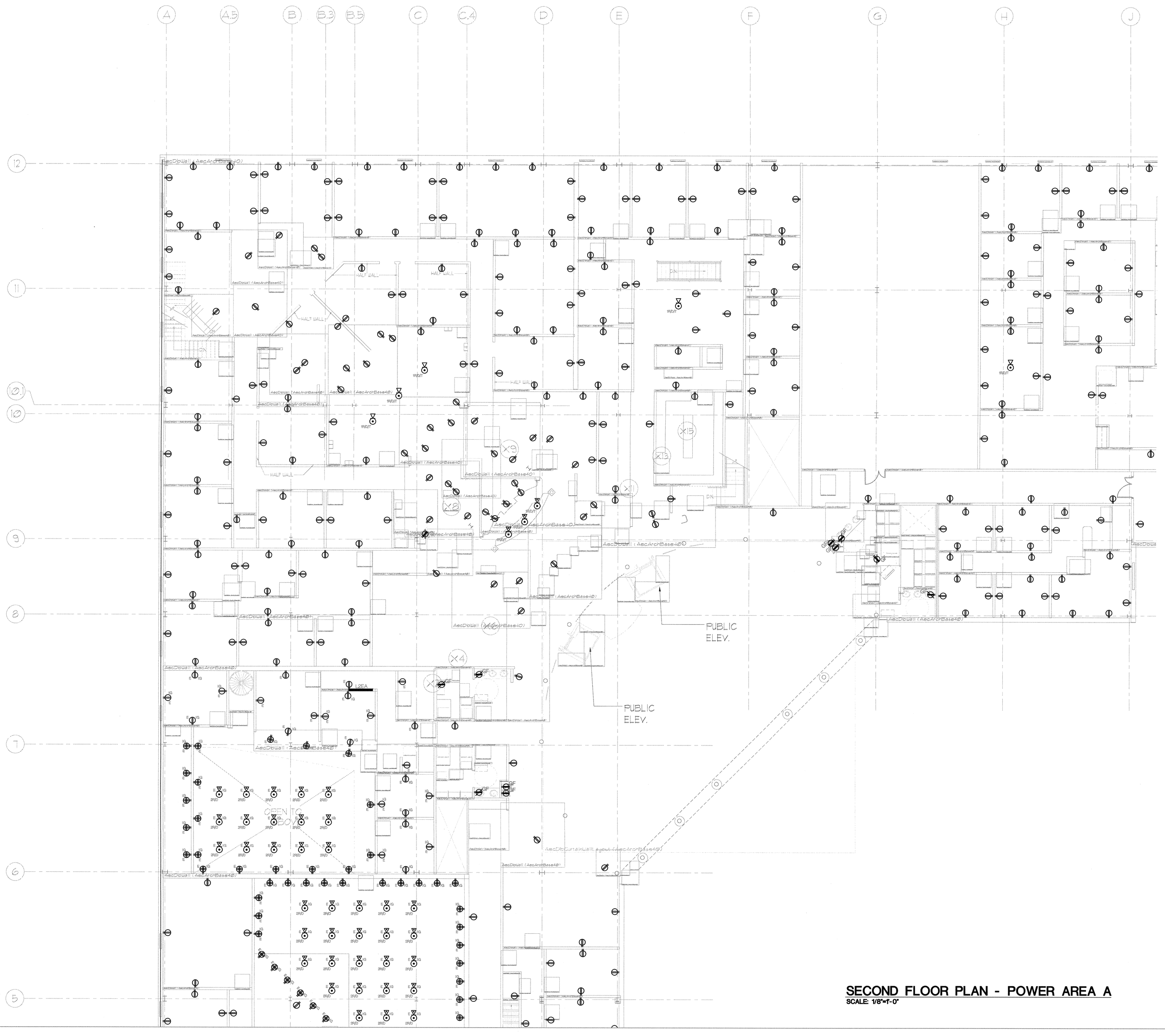
CONSULTANTS:
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CERTIFICATE OF AUTHORIZATION
COA # EB-0007212
CEGI PROJECT NO. 129

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRST FLOOR ZONE C
ELECTRICAL POWER

SHEET NUMBER:
E2.1C



SECOND FLOOR PLAN - POWER AREA A

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

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Commission Number: 06318

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CEG # EB-0007121

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

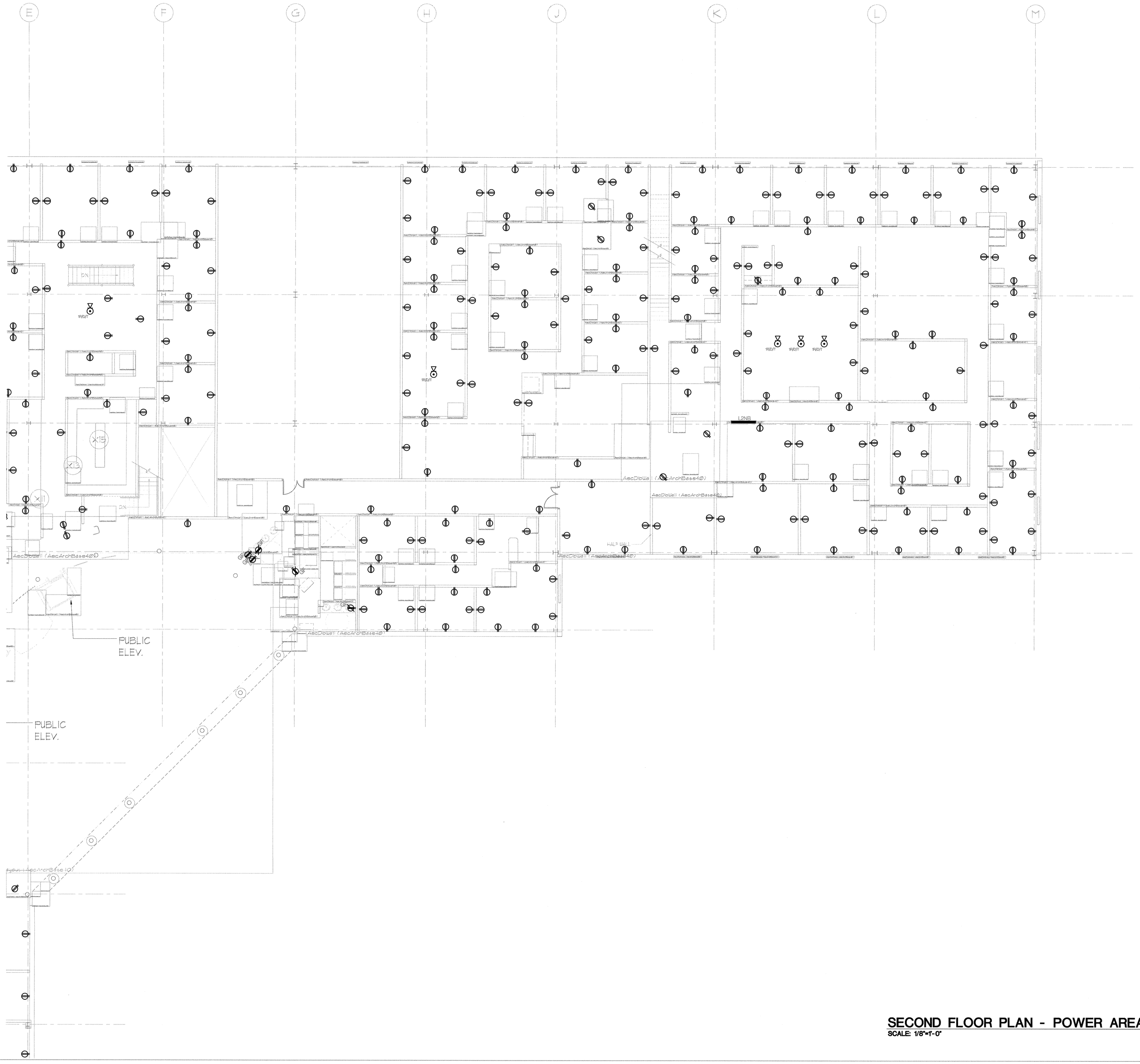
PANAMA CITY, FLORIDA

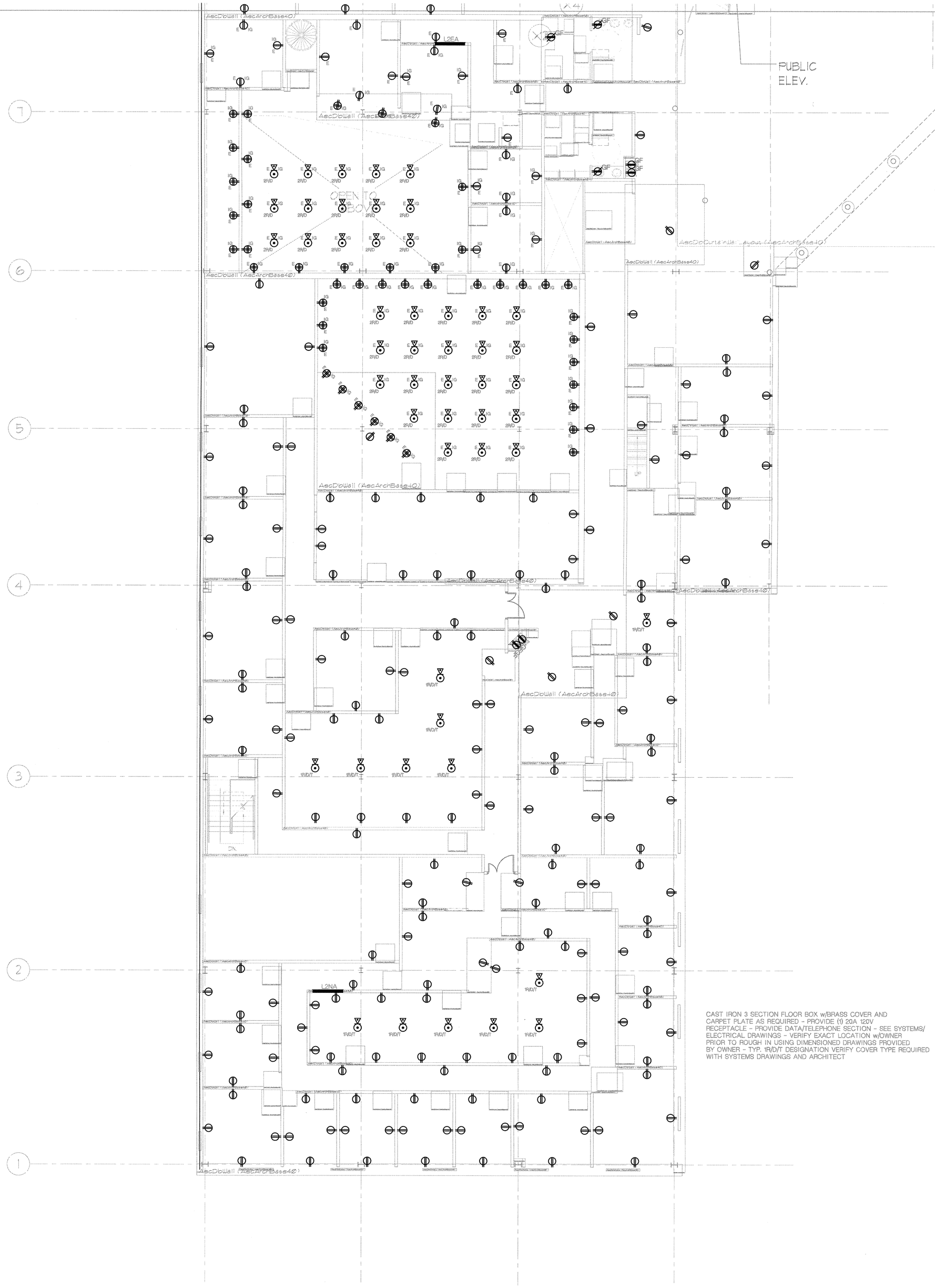
SHEET TITLE:

SECOND FLOOR ZONE A
ELECTRICAL POWER

SHEET NUMBER:

E2.2A


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PUBLIC
ELEV.
OPEN TO BELOW
L2SA
L2NA
AscDowall (AscArchBase40)
AscDowall (AscArchBase42)
AscDowall (AscArchBase-0)
AscDowall (AscArchBase-40)
AscDowall (AscArchBase-42)
AscDowall (AscArchBase40

A | A.5 | B | B.3 | B.5 | C | C.4 | D | E | F | G | H | J

12 | 11 | 10 | 9 | 8 | 7 | 6 | 5

MECH. MEZZ.

UNFINISHED
3018
--- SF

X9 | X15 | X13 | X11 | X8 | X6 | X4 | X2

RE
3016
28 SF

RE
3017
30 SF
25 SF

OFFICE
3012
119 SF

STAIR
3011
88 SF

OFFICE
3010
80 SF

CONF.
3009
400 SF

RWT

RWT

RWT

3008
40 SF

3007
40 SF

3006
40 SF

CORRIDOR
3005
--- SF

CORRIDOR
3004
--- SF

S.T.O.
3003
52 SF

S.T.O.
3002
40 SF

OFFICE
3003
170 SF

MECH.
3001
310 SF

OFFICE
3002
245 SF

OPEN TO BELOW

PUBLIC ELEV.

TO CAGED STORAGE

UNFINISHED
3015
--- SF

PUBLIC ELEV.

MECH. MEZZ.

DN

MEZZANINE
1,469 S.F.

MEZZANINE
2,236 S.F.

THIRD FLOOR PLAN - POWER AREA A
SCALE: 1/8"=1'-0"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-30-21
DESIGN DEVELOPMENT	WHP	BB	06-06-21
DD OWNER REVIEW	WHP	BB	08-06-21
75% OWNER REVIEW	WHP	BB	11-16-21
----	-	-	----

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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR ZONE A
ELECTRICAL POWER

SHEET NUMBER:
E2.3A



FIRST FLOOR PLAN - LIGHTING AREA A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-20-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
----	-	-	----

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

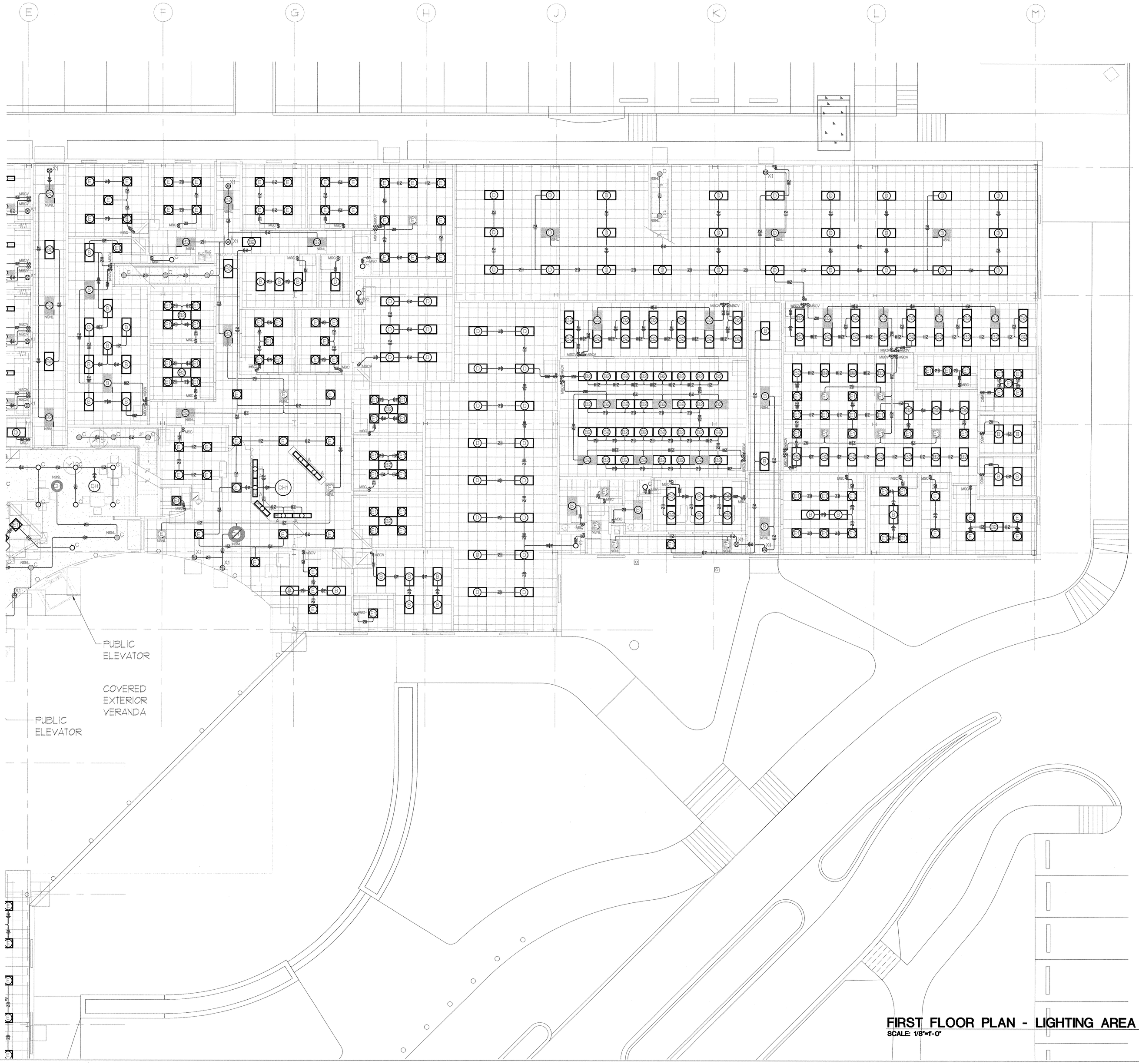
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A ELECTRICAL LIGHTING

SHEET NUMBER:

E3.1A



FIRST FLOOR PLAN - LIGHTING AREA B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
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WEBSITE: CEGITAMPA.COM
COA # EB-0007772

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.1B



FIRST FLOOR PLAN - LIGHTING AREA C

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
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WEB: CONSULTINGENGINEERINGGROUP.COM
COA # EB 0007721

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

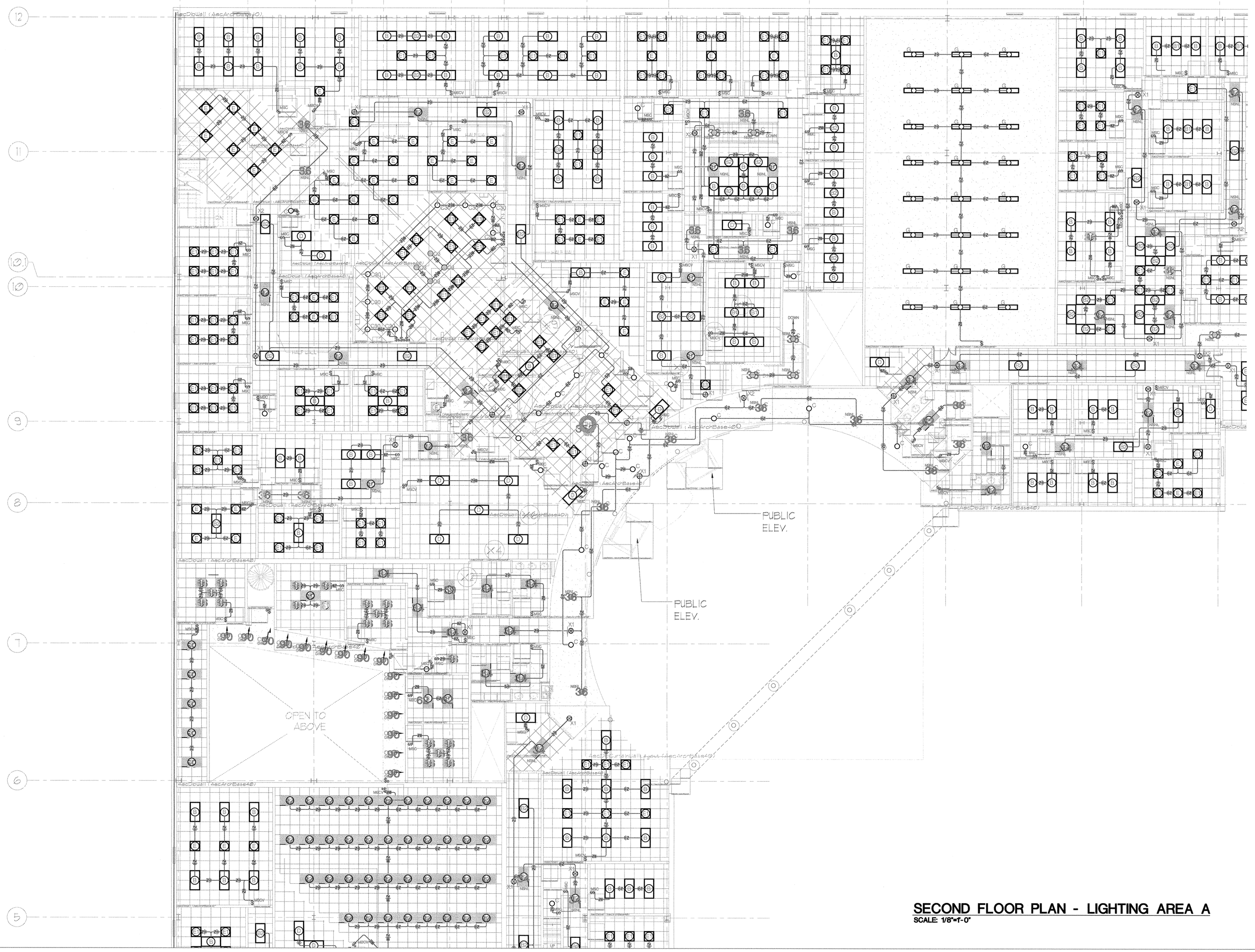
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.1C



SECOND FLOOR PLAN - LIGHTING AREA A

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-30-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
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FAX: (850) 230-3584
Commission Number: 06318

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813.935.1296
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CONTACT: SCOTT ZAYAC

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

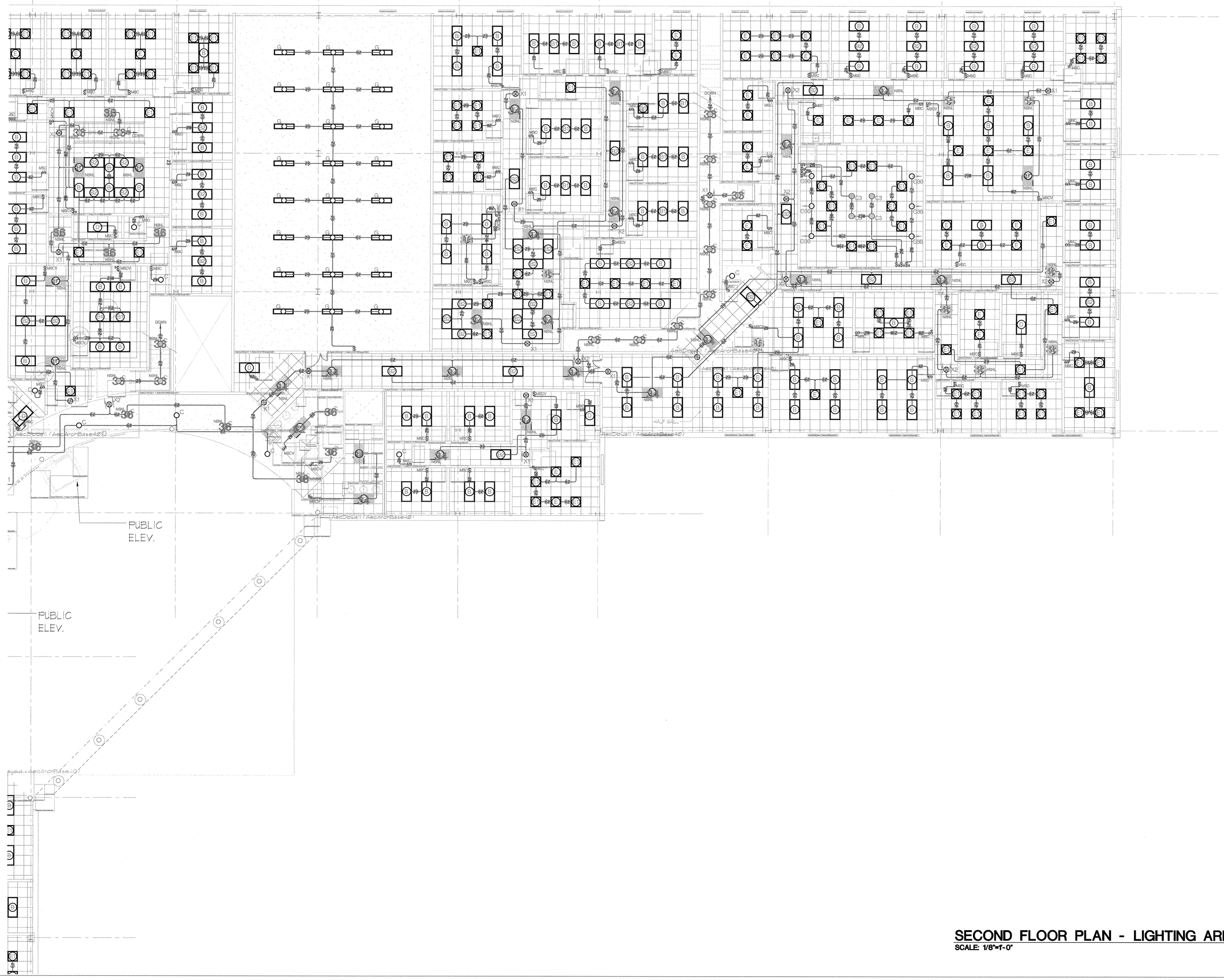
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE A
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.2A



SECOND FLOOR PLAN - LIGHTING AREA B

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

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-21
DESIGN DEVELOPMENT	WHP	BB	06-06-21
DD OWNER REVIEW	WHP	BB	08-06-21
75% OWNER REVIEW	WHP	BB	11-16-21
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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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EDDIE L. KAYE, P.E. FLORIDA
COA # EB-0007712

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

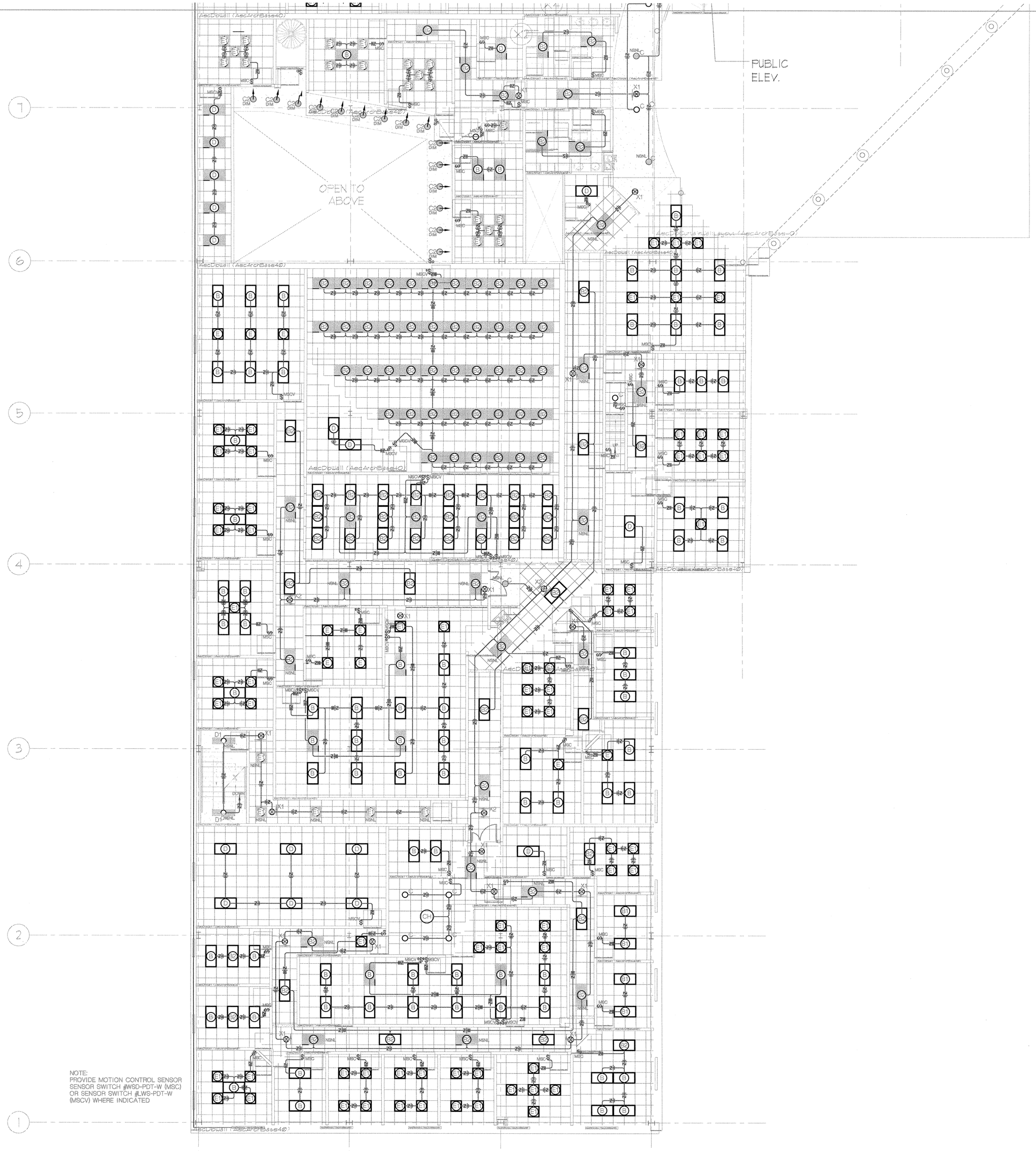
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.2B



NOTE:
PROVIDE MOTION CONTROL SENSOR SENSOR SWITCH #WSD-PDT-W (MSC) OR SENSOR SWITCH #LWS-PDT-W (MSCV) WHERE INDICATED

SECOND FLOOR PLAN - LIGHTING AREA C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-30-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% OWNER REVIEW	WHP	BB	11-16-07
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CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE C
ELECTRICAL LIGHTING

SHEET NUMBER:

E3.2C