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

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DISTRICT II

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DISTRICT III

DOUGLAS MOORE
DISTRICT IV

PHILIP "GRIFF" GRIFFITTS
DISTRICT V

ROBERT J. MAJKA
COUNTY MANAGER

January 18, 2022

Prospective Respondents

RE: Addendum #2 22-27 Bay County Government Center Building Generator Re-Bid

Please accept this as Addendum No. 2 for the above referenced solicitation.

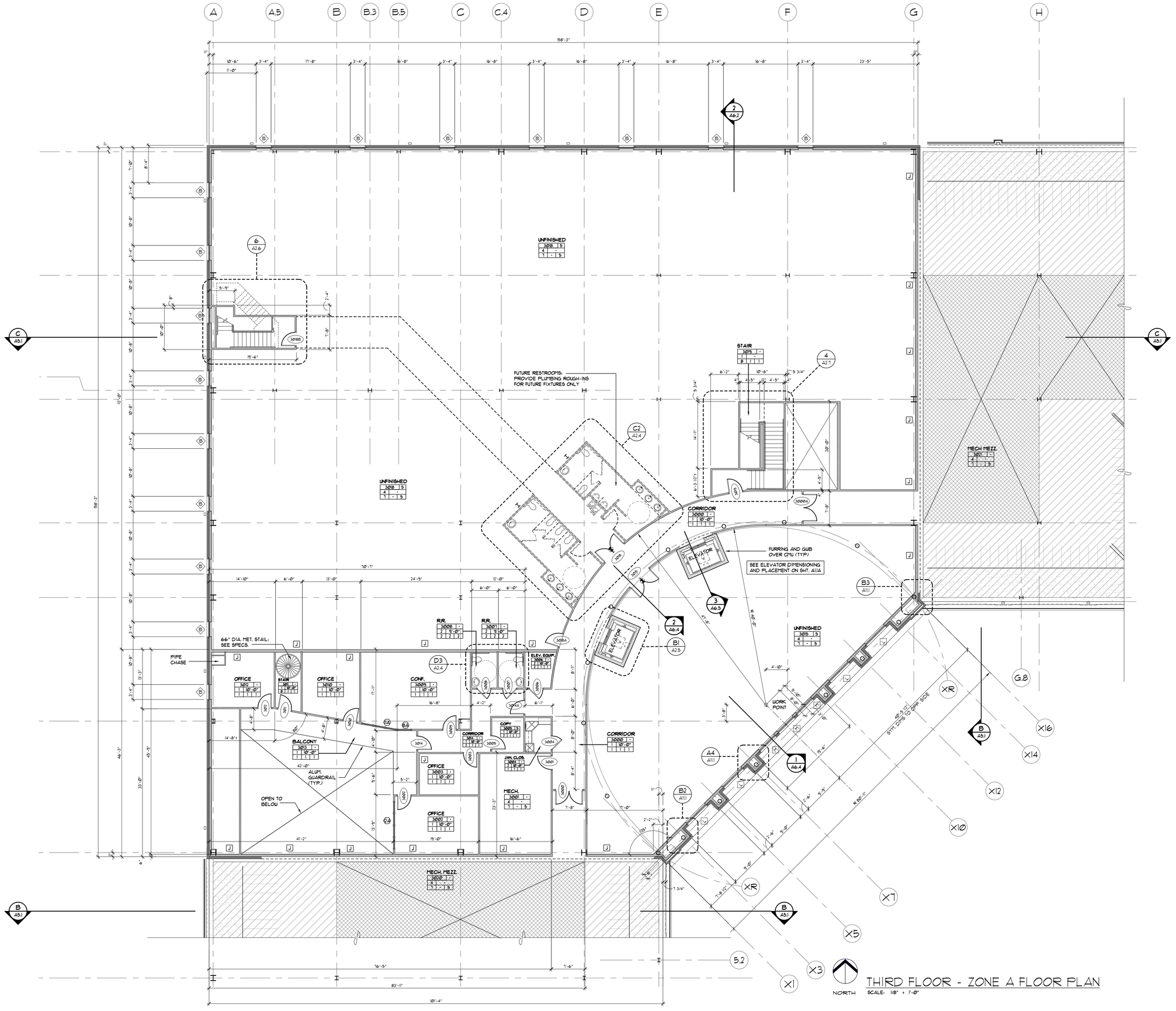
The following questions have been received during the Pre-bid meeting. The County's answers follow in **bold.**

1) In reviewing the as-built drawings provided in Addendum 1 per the response to question 2, it appears the plans are only 75% plans and do not accurately reflect existing conditions. On Page 11 of the addendum the riser diagram shown on Plan Sheet E7.0 is for a 120/240 volt power plan. The actual power plan for this facility should have a 277/480 volt service entrance. When this job bid on November 2, 2021 under IT ITB 22-03, Drawings were provided that were marked 100% and more accurately reflect existing conditions. Can theses plans dated 03/03/2008 be verified for use with this Bid Proposal and provided under another Addendum? **Please see the updated plan set 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,

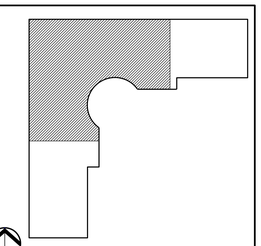
Scott Nabers
Contracts Administrator



THIRD FLOOR - ZONE A FLOOR PLAN

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

NORTH



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 GUBS/ 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
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:

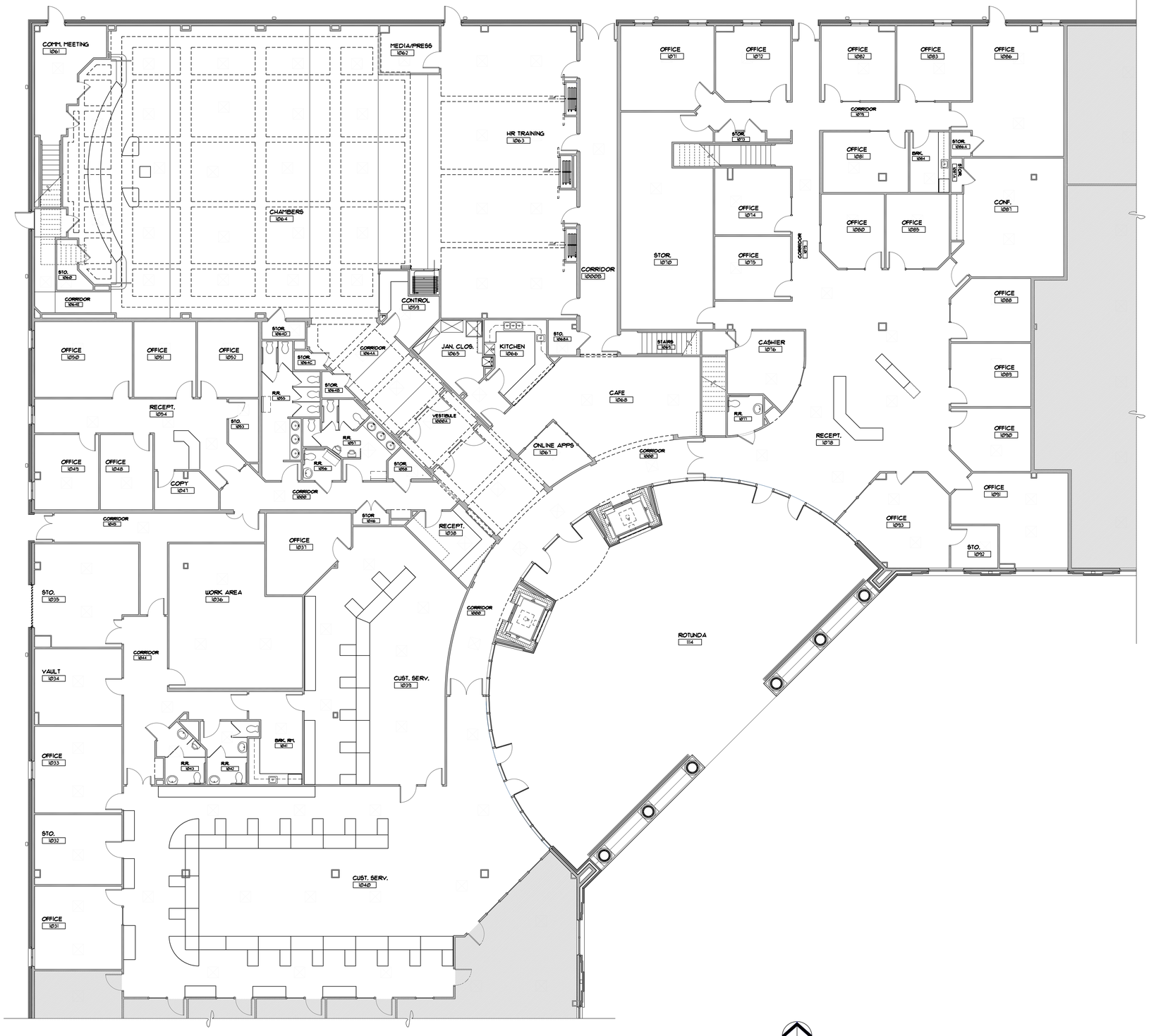
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
THIRD FLOOR ZONE A FLOOR PLAN

SHEET NUMBER:
A1.3A

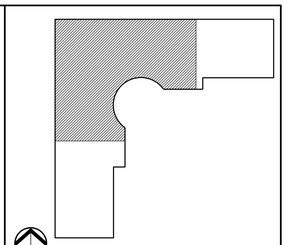
\\fltserver\jobs\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A1 - FLOOR PLANS\A1.3A THIRD FLOOR ZONE A FLOOR PLAN.dwg, 3/20/2008 11:11:14 AM, cjackson



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. 12' 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, 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 4 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 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 HOP 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. UNO, MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
3. CUT ACOUSTIC PANELS EVEN WITH TOP OF H.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
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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:

FIRST FLOOR ZONE A EQUIPMENT PLAN

SHEET NUMBER:

A2.1A

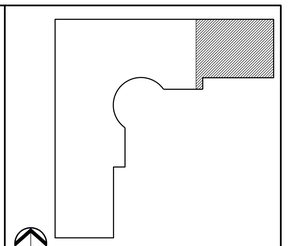
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NORTH

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. 12' 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, 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. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS, 4' HIGH (U.N.O.), 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 & 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 (A1.0X) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

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
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

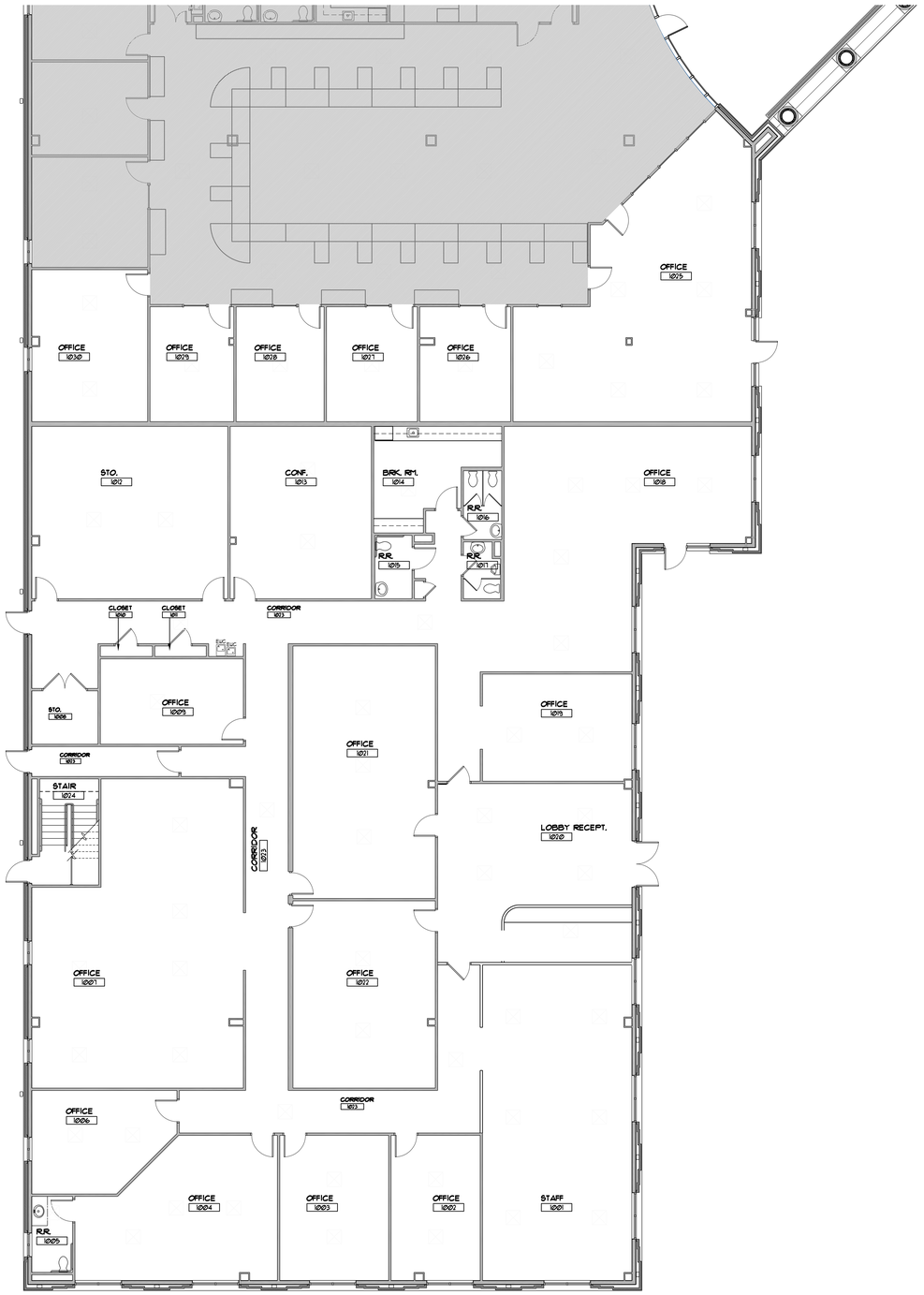
SHEET TITLE:

FIRST FLOOR ZONE B
EQUIPMENT PLAN

SHEET NUMBER:

A2.1B

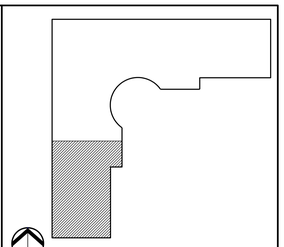
\\ftlserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A2 - EQUIPMENT PLANS\A2.1B FIRST FLOOR ZONE B EQUIPMENT PLAN.dwg, 3/20/2008 9:33:00 AM, cjackson



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)
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1C. 16' x 4' MARKER BOARD (RAIL @ 32" AFF)
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9. UNDERCOUNTER REFRIGERATOR (N.I.C.)
10. FULL HEIGHT REFRIGERATOR - RESIDENTIAL TYPE
11. DISHWASHER - RESIDENTIAL TYPE
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13. STACKED CLOTHES WASHER/DRYER COMBO UNIT - RESIDENTIAL TYPE
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GENERAL NOTES

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2. U.N.O., MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
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CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C
EQUIPMENT PLAN

SHEET NUMBER:

A2.1C

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NORTH SECOND 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)
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4A. 12' x 20' PROJECTION SCREEN W/ REMOTE.
5. MOVABLE PARTITION, 80' L (V.I.F.).
5A. MOVABLE PARTITION, 20' L (V.I.F.).
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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.
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GENERAL NOTES

1. PROVIDE HORIZONTAL BLINDS AT ALL EXTERIOR & INTERIOR GLAZINGS.
2. UNO, MOUNT ACOUSTIC PANELS WITH TOP EDGE ADJACENT TO CEILING.
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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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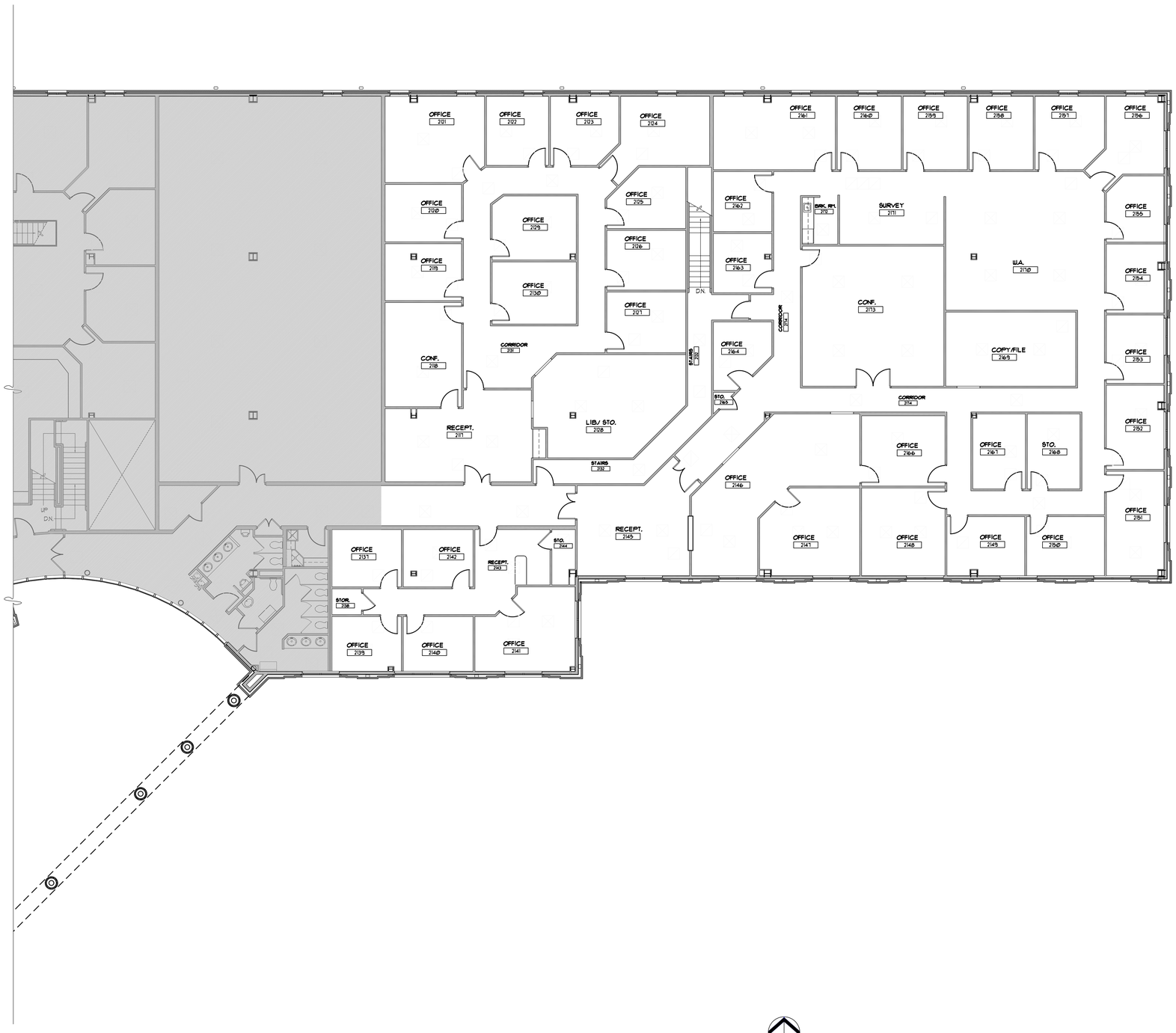
SHEET TITLE:

SECOND FLOOR ZONE A EQUIPMENT PLAN

SHEET NUMBER:

A2.2A

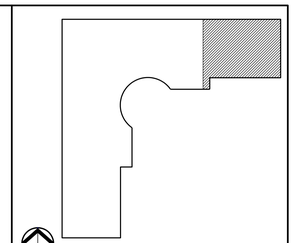
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NORTH

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. 12' 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, 8'0" L (V.I.F.).
5A. MOVABLE PARTITION, 20'-0" 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 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 & 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. UNO, 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	-	-	03-28-07
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

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

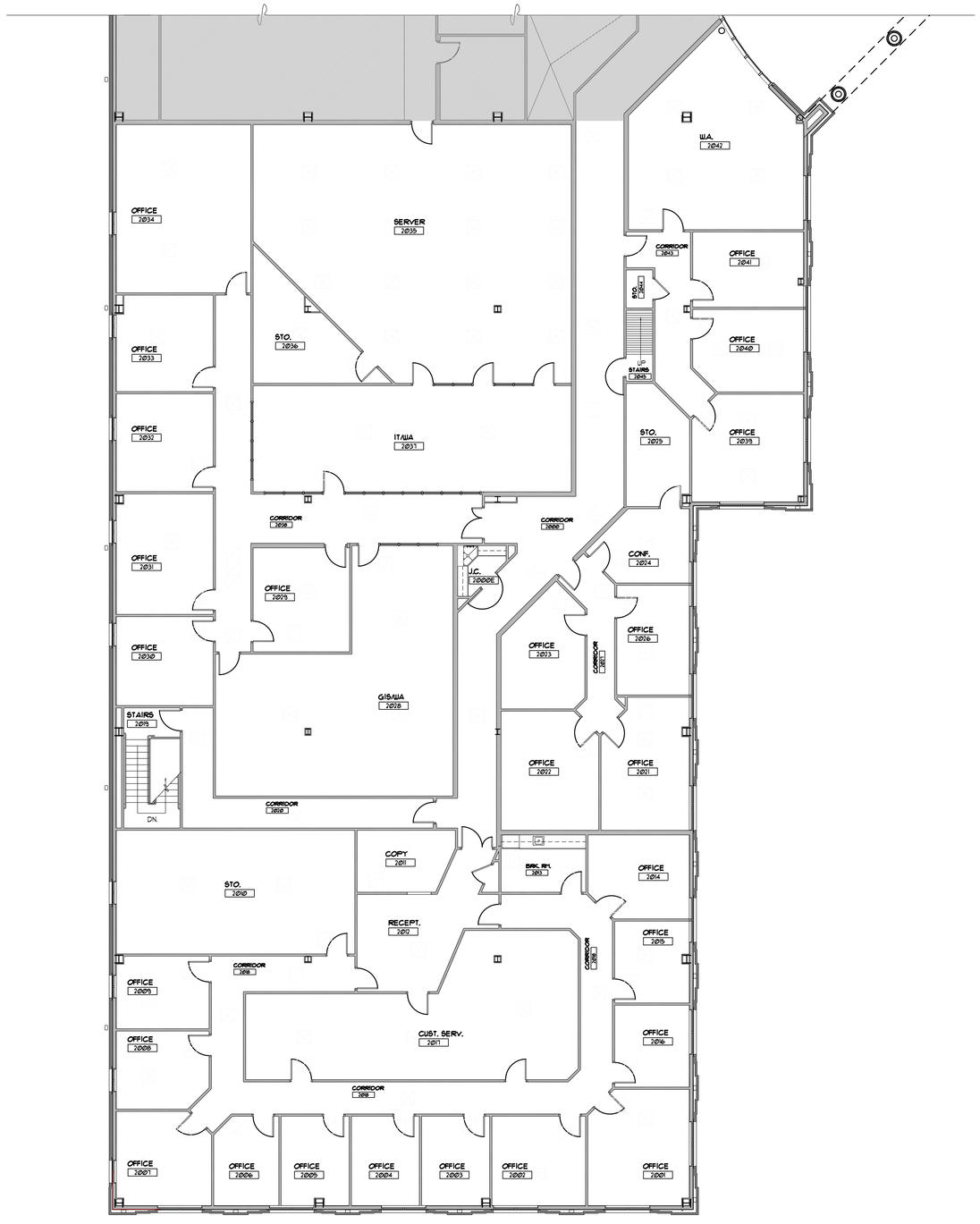
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SECOND FLOOR ZONE B EQUIPMENT PLAN

SHEET NUMBER:

A2.2B

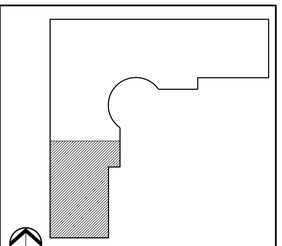
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NORTH

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. 12' 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, 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. STUDIO CURTAIN
16. ACOUSTIC WALL PANELS, 4' HIGH (U.N.O.); 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 & 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.XX) SHEETS FOR FIRE EXTINGUISHER REQUIREMENTS.

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

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

CONSULTANTS:

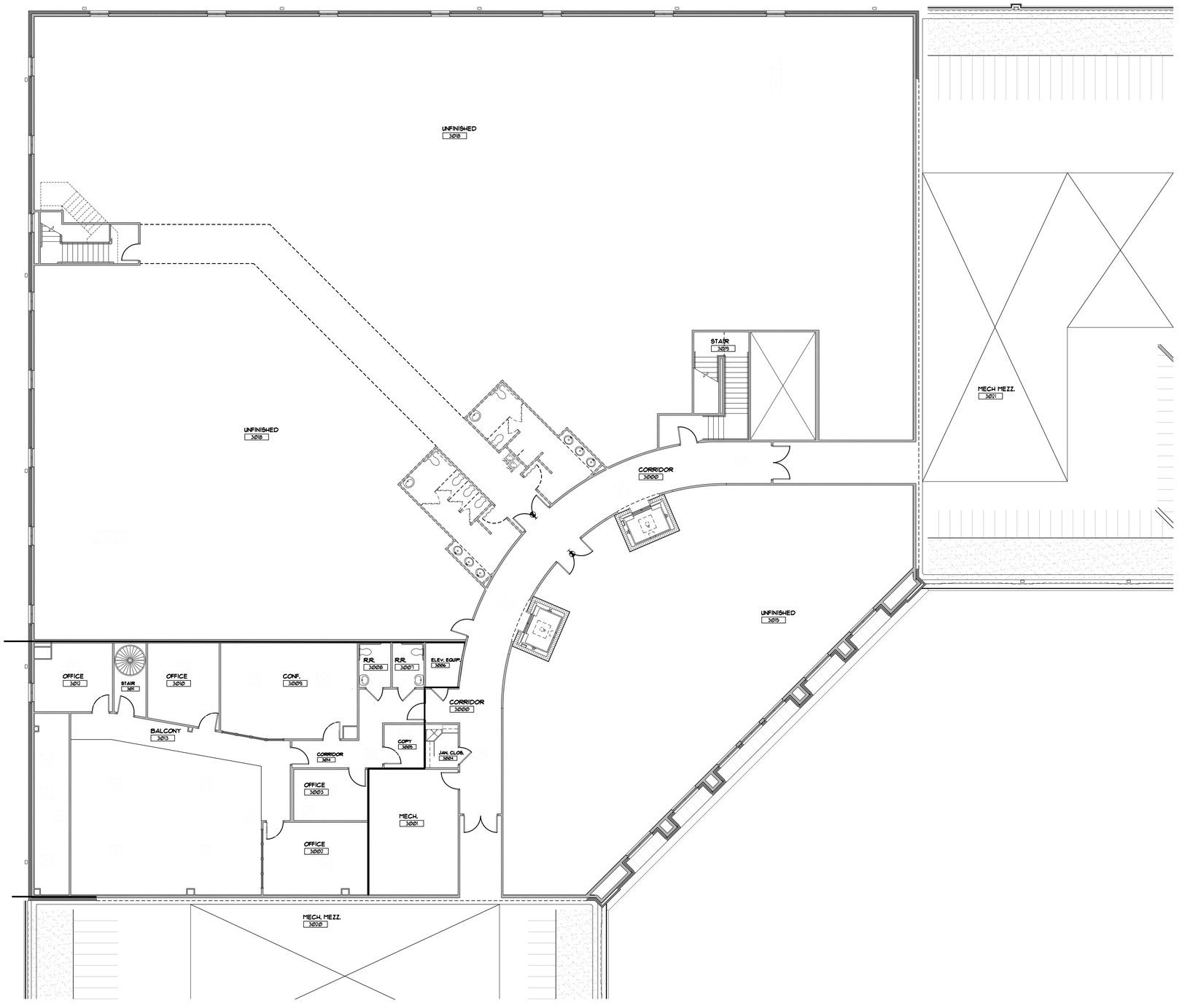
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ZONE C EQUIPMENT PLAN

SHEET NUMBER:
A2.2C

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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 @ 32" AFF)
1A. 8' x 4' MARKERBOARD (RAIL @ 32" AFF)
1B. 12' 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, 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. 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 6'0" 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.)
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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 H.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 (A1.00X) 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

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

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

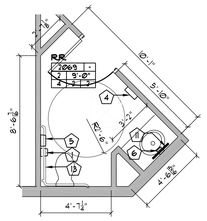
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THIRD FLOOR ZONE A EQUIPMENT PLAN

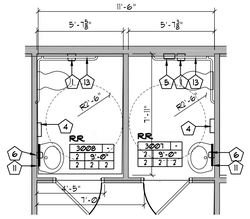
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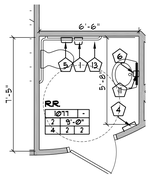
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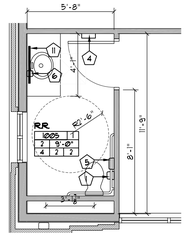
D4 ADMIN RESTROOM 2ND FLR
SCALE: 1/4" = 1'-0"



D3 MEN / WOMENS R.R. 3RD FL
SCALE: 1/4" = 1'-0"



D2 BUILDERS SERV. R.R. 1ST FL
SCALE: 1/4" = 1'-0"

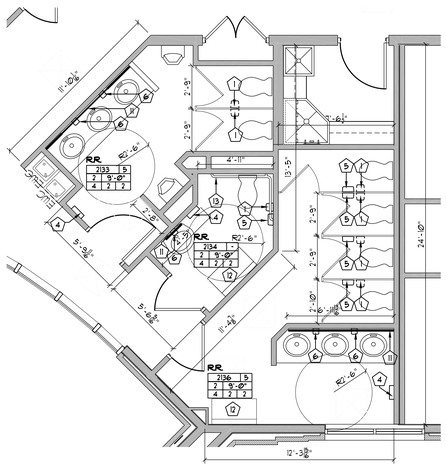


D1 PROPERTY APPR. R.R.
SCALE: 1/4" = 1'-0"

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-7ØØ7	48" TOP OF UNIT	-
4	PAPER TOWEL DISP. W/ RECEPTACLE	B-3699	-	51.5" 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	-
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				

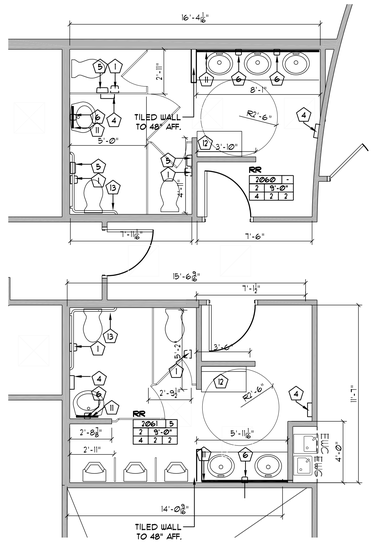
MANUFACTURERS OF EQUAL PRODUCTS MAY BE SUBSTITUTED.
* BASIC OF DESIGN FOR TOILET ACCESSORIES IS FOR BOBRICK BRAND, ACCESSORIES, HOWEVER OTHER



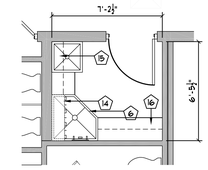
C5 MENS/WOMENS R.R. 2ND FLR.
SCALE: 1/4" = 1'-0"



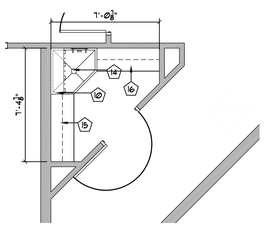
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SCALE: 1/4" = 1'-0"



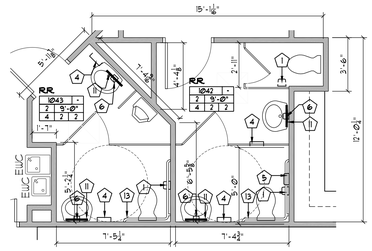
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SCALE: 1/4" = 1'-0"



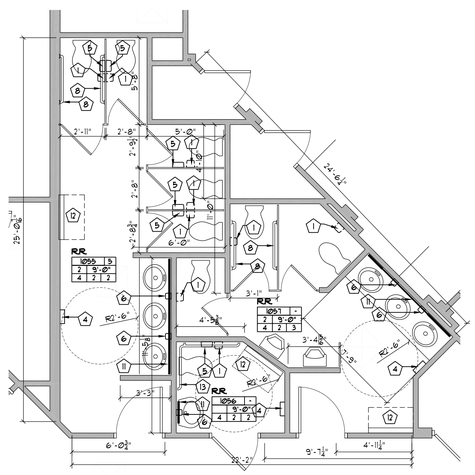
C2 JANITOR'S CLOSET
SCALE: 1/4" = 1'-0"



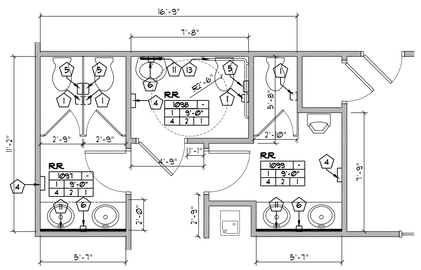
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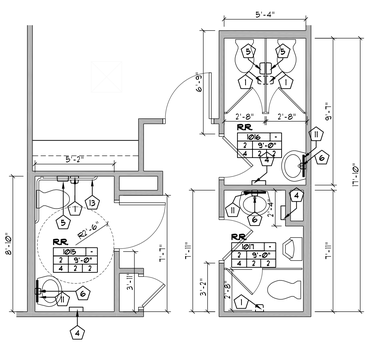
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SCALE: 1/4" = 1'-0"



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	-	-	Ø3-2Ø-Ø7
DESIGN DEVELOPMENT	-	-	Ø6-Ø6-Ø7
DD OWNER REVIEW	-	-	Ø8-Ø8-Ø7
75% CONSTRUCTION DOCUMENTS	-	-	11-16-Ø7
1ØØ% PROGRESS SET	-	-	Ø1-18-Ø8
BID DOCUMENTS	-	-	Ø3-Ø3-Ø8

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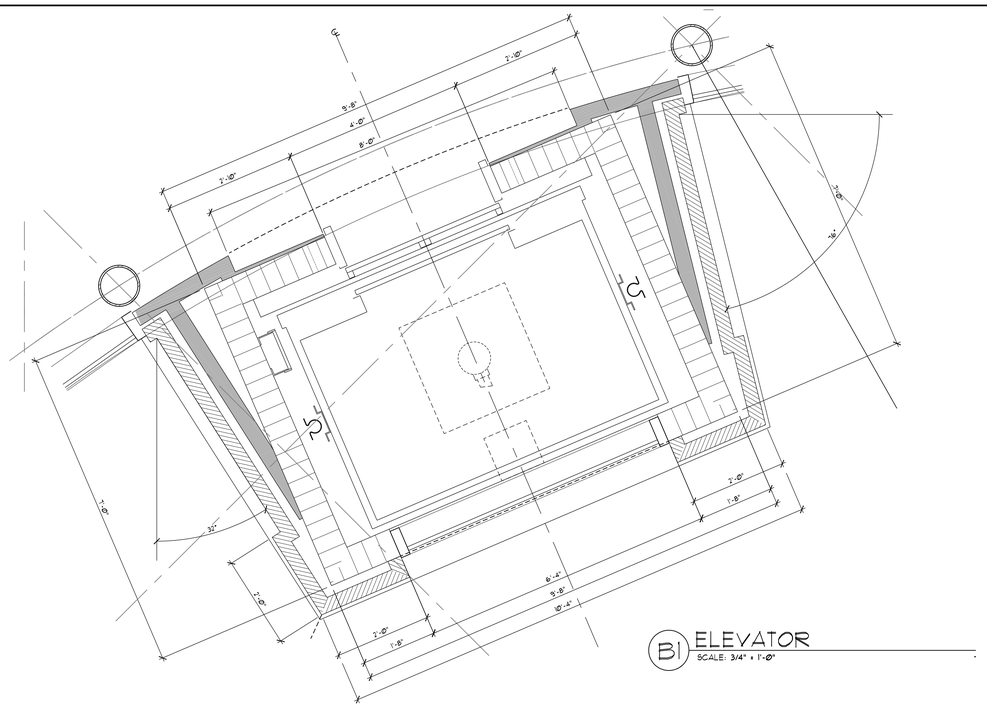
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

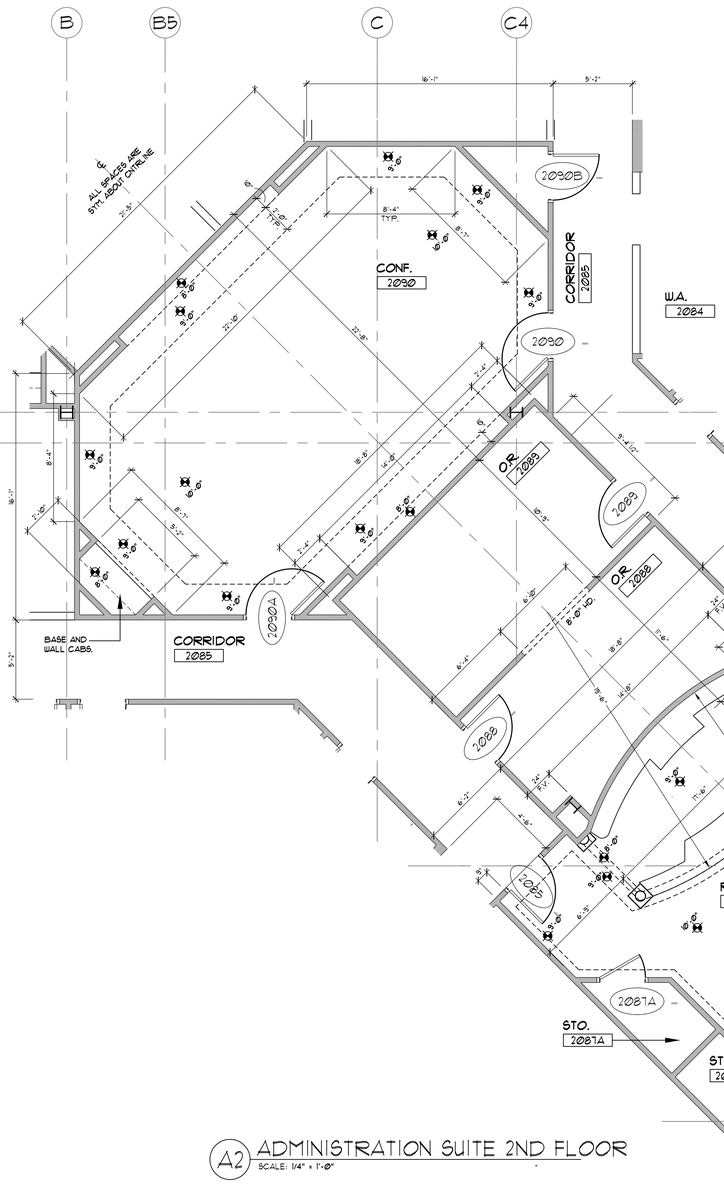
SHEET TITLE:
ENLARGED TOILET PLANS

SHEET NUMBER:
A2.4

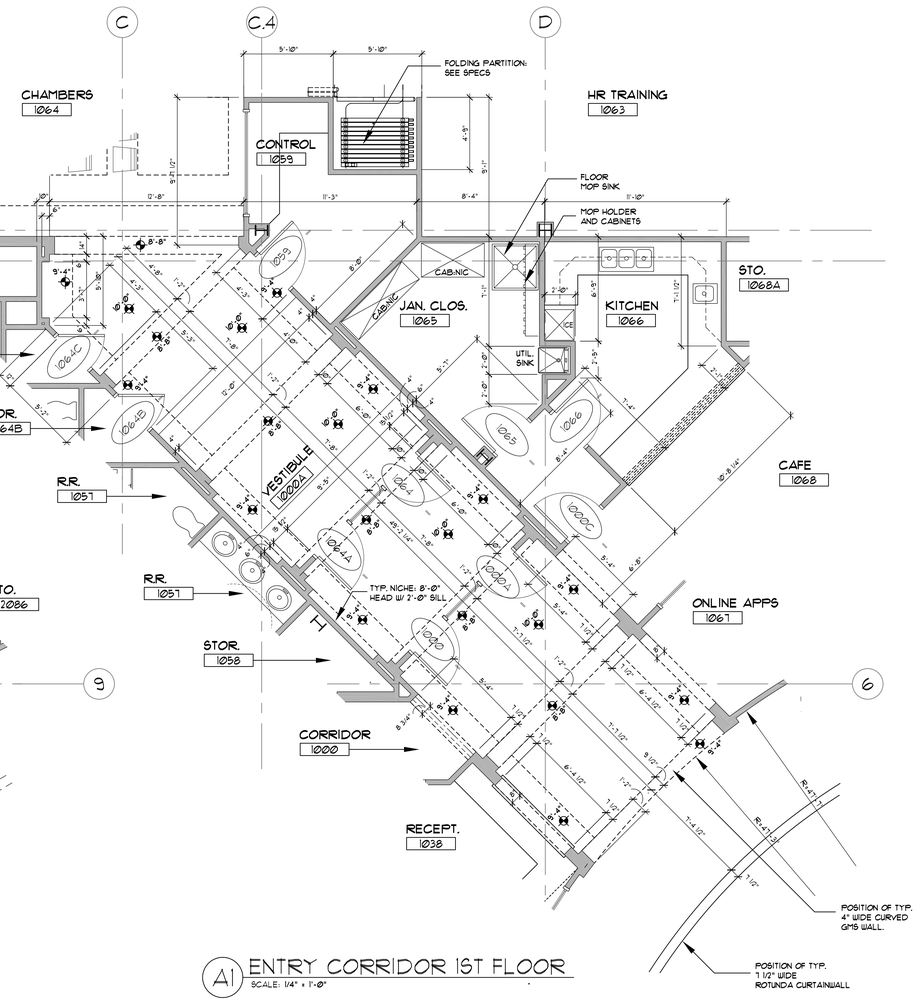
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B1 ELEVATOR
SCALE: 3/4" = 1'-0"



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	-	-	03-28-07
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

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

CONSULTANTS:

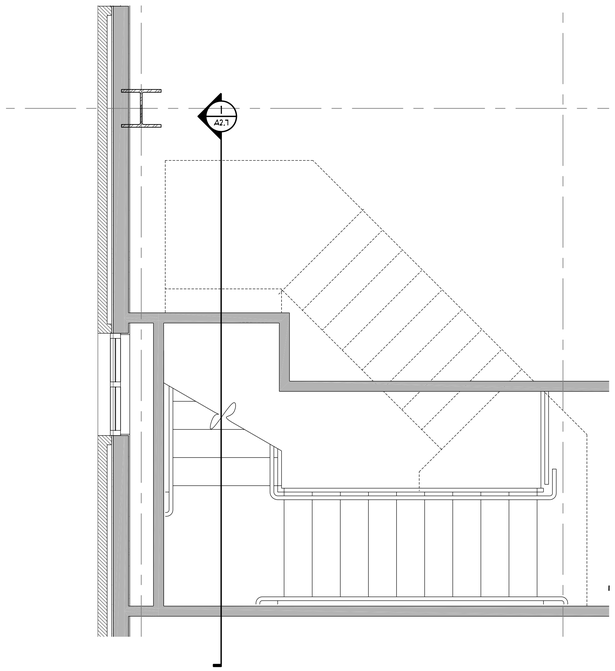
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

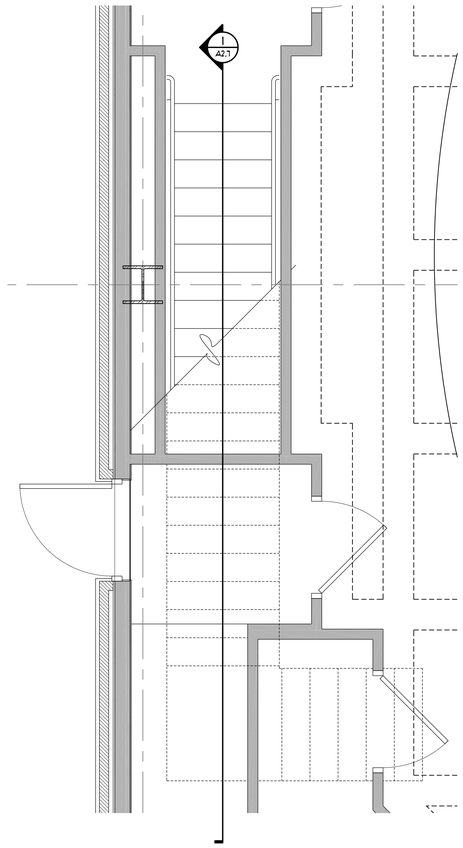
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ENLARGED PLANS

SHEET NUMBER:
A2.5

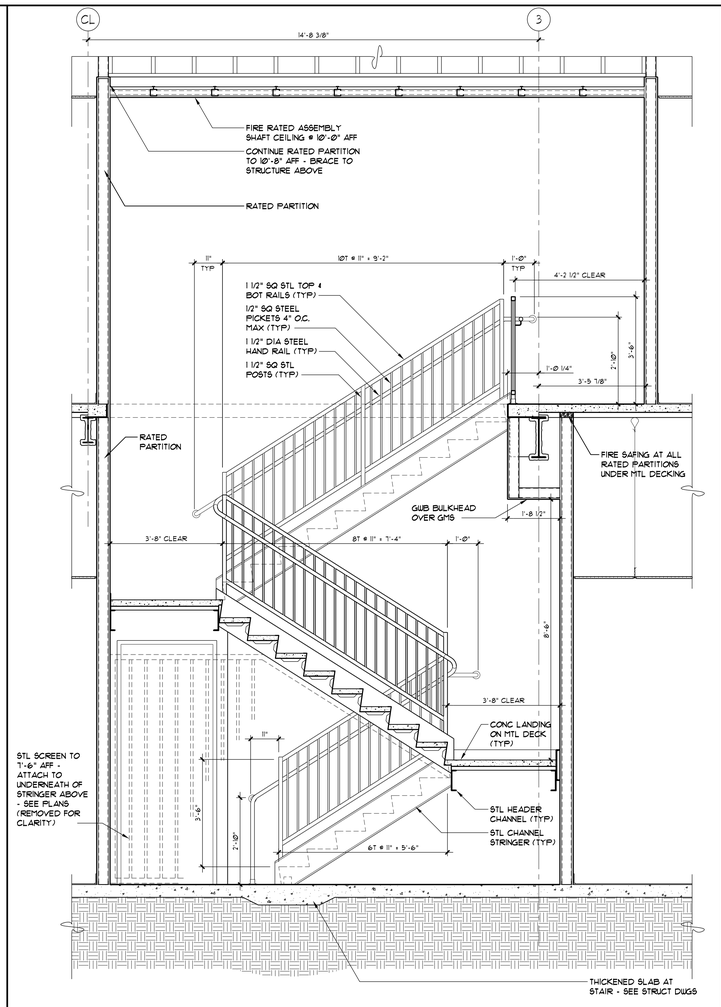
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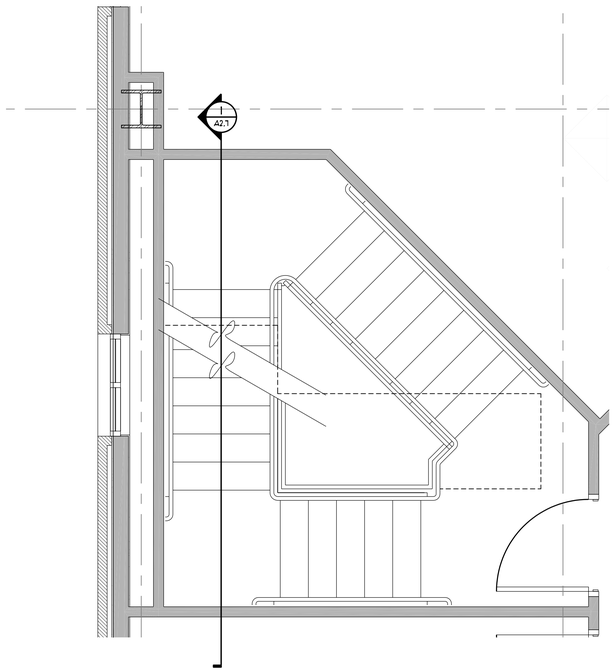
6 STAIR PLAN - THIRD FLOOR
SCALE: 1/2" = 1'-0" A-EPRI.DWG



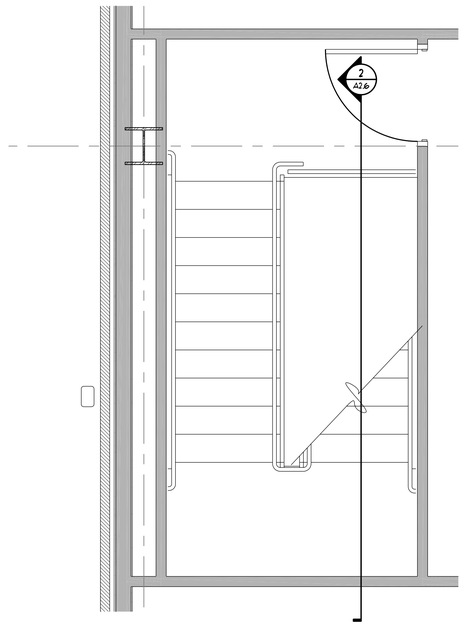
4 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0" A-EPRI.DWG



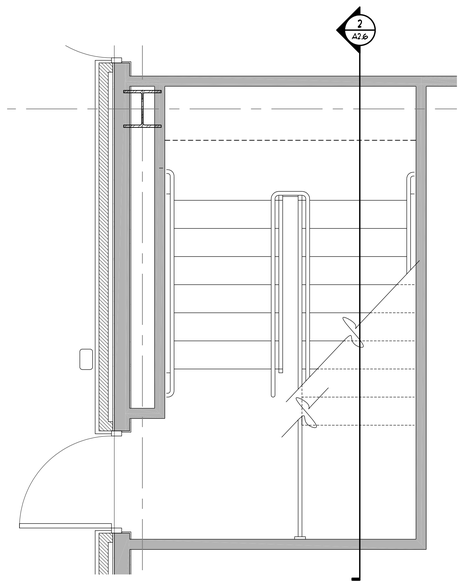
2 STAIR SECTION
SCALE: 1/2" = 1'-0" A-STR.DWG



5 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-EPRI.DWG



3 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-EPRI.DWG



1 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0" A-EPRI.DWG

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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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

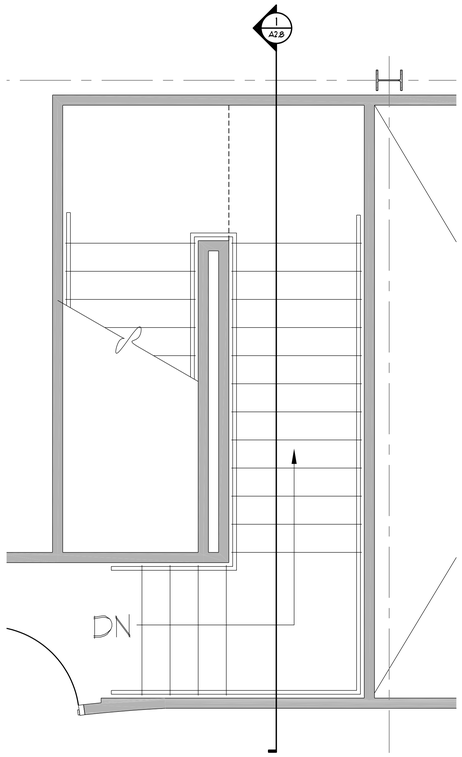
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

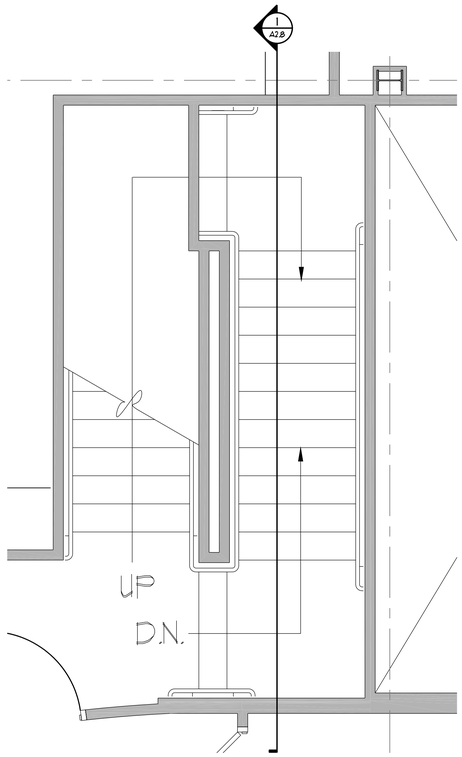
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ENLARGED PLANS - STAIRS

SHEET NUMBER:
A2.6

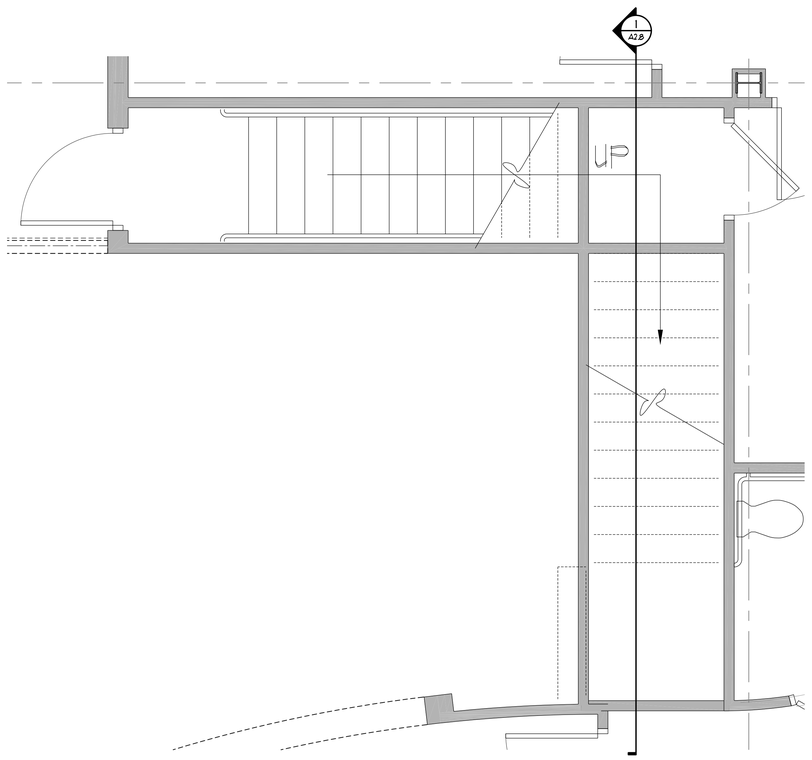
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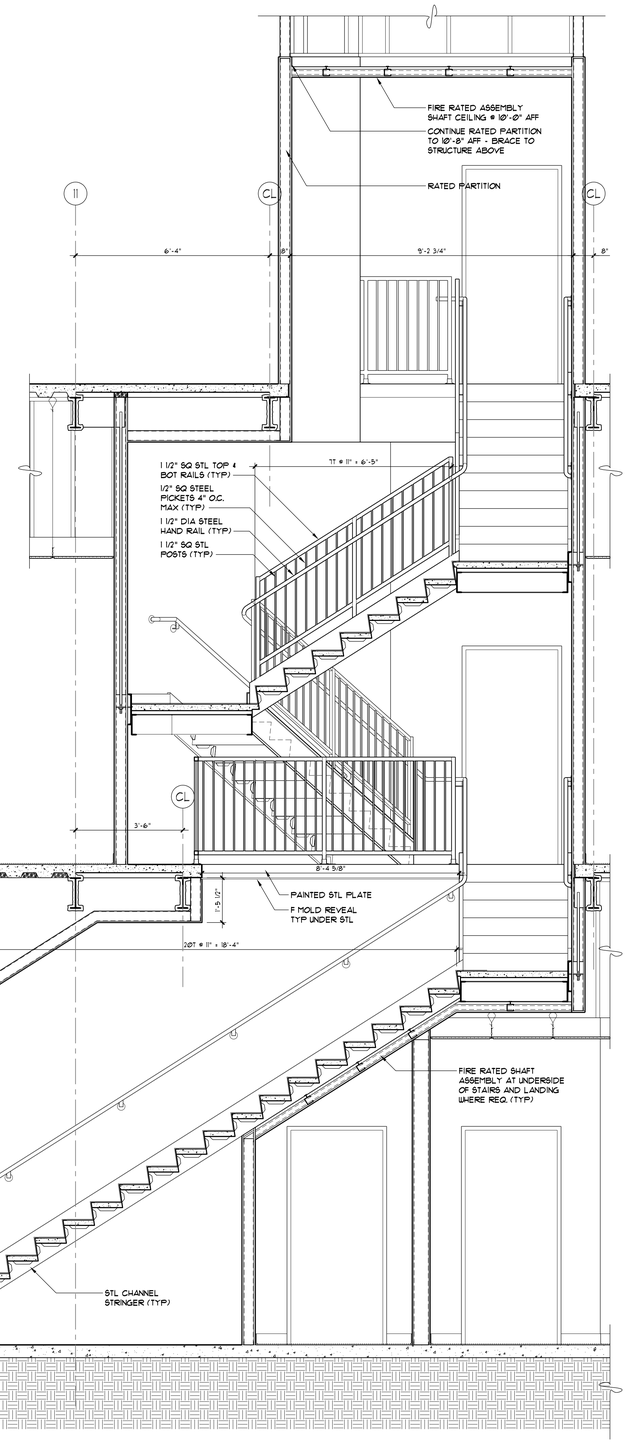
4 STAIR PLAN - THIRD FLOOR
SCALE: 1/2" = 1'-0" A-EP101.DWG



3 STAIR PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0" A-EP102.DWG



2 STAIR PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0" A-EP101.DWG



1 STAIR SECTION
SCALE: 1/2" = 1'-0" A-ST102.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:

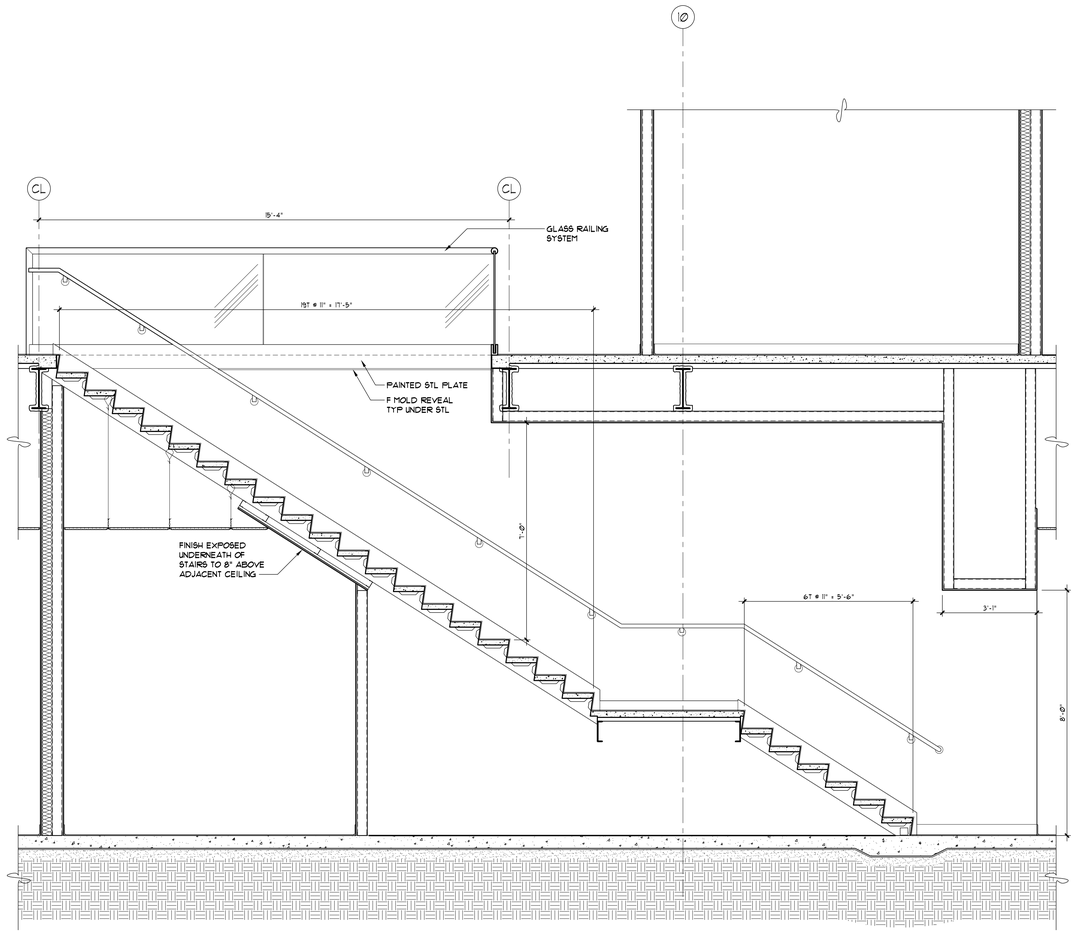
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ENLARGED PLANS - STAIRS

SHEET NUMBER:
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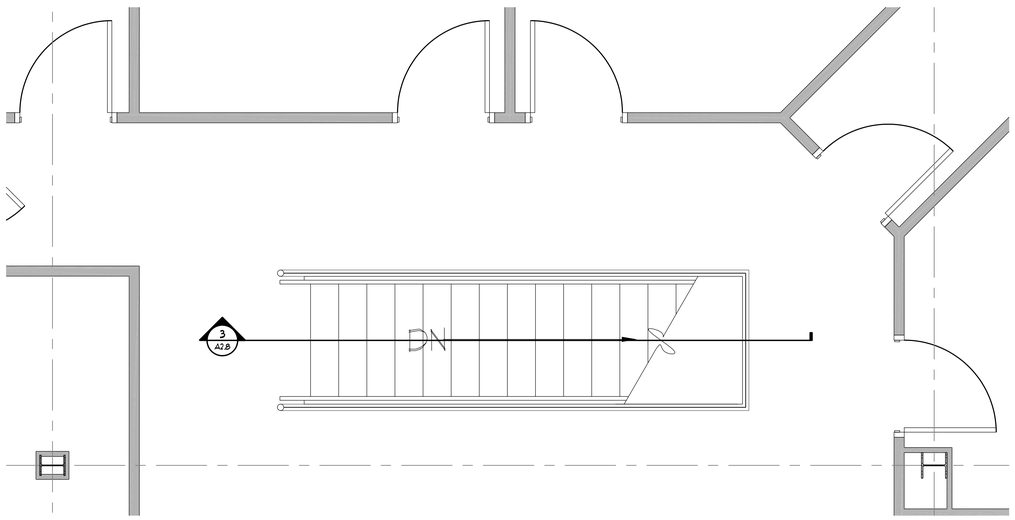
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3 STAIR SECTION

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

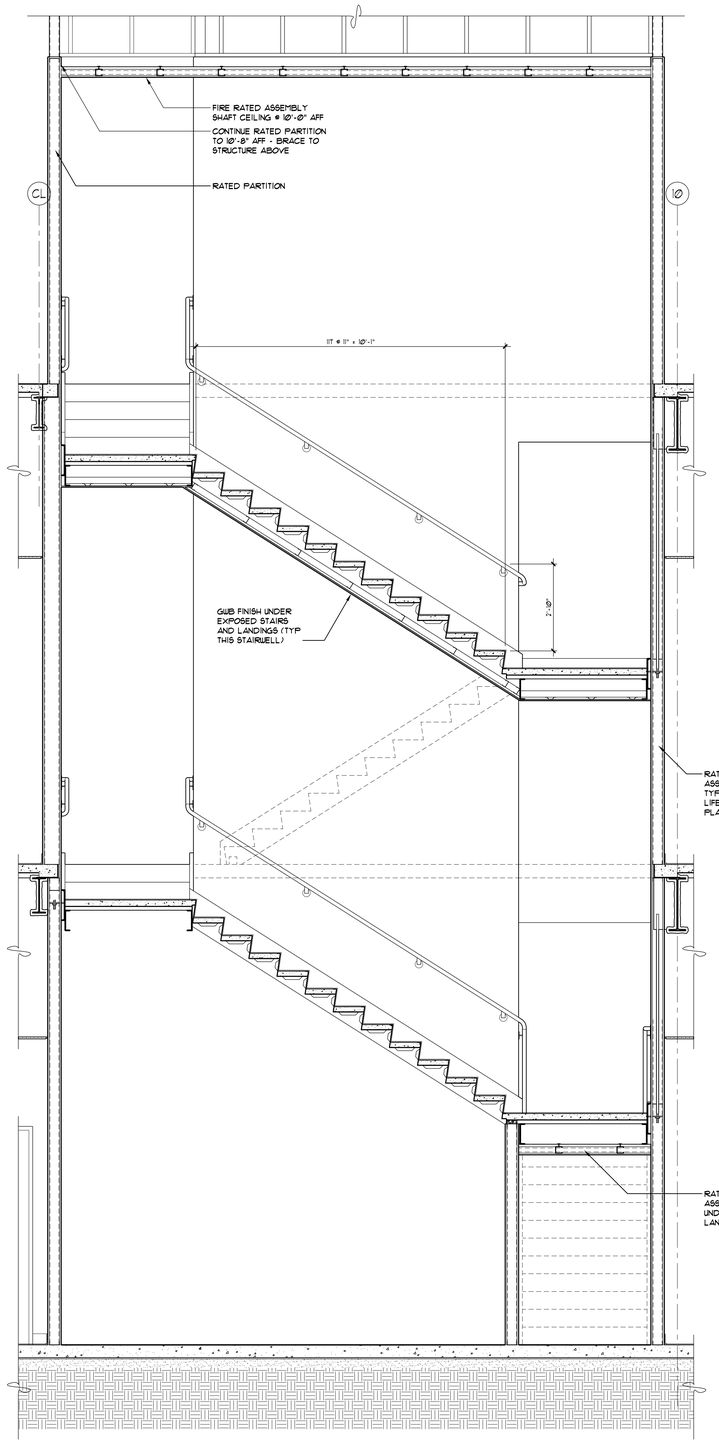
A-ST04.DWG



2 STAIR PLAN - SECOND FLOOR

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

A-EP03.DWG



1 STAIR SECTION

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

A-ST03.DWG

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
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

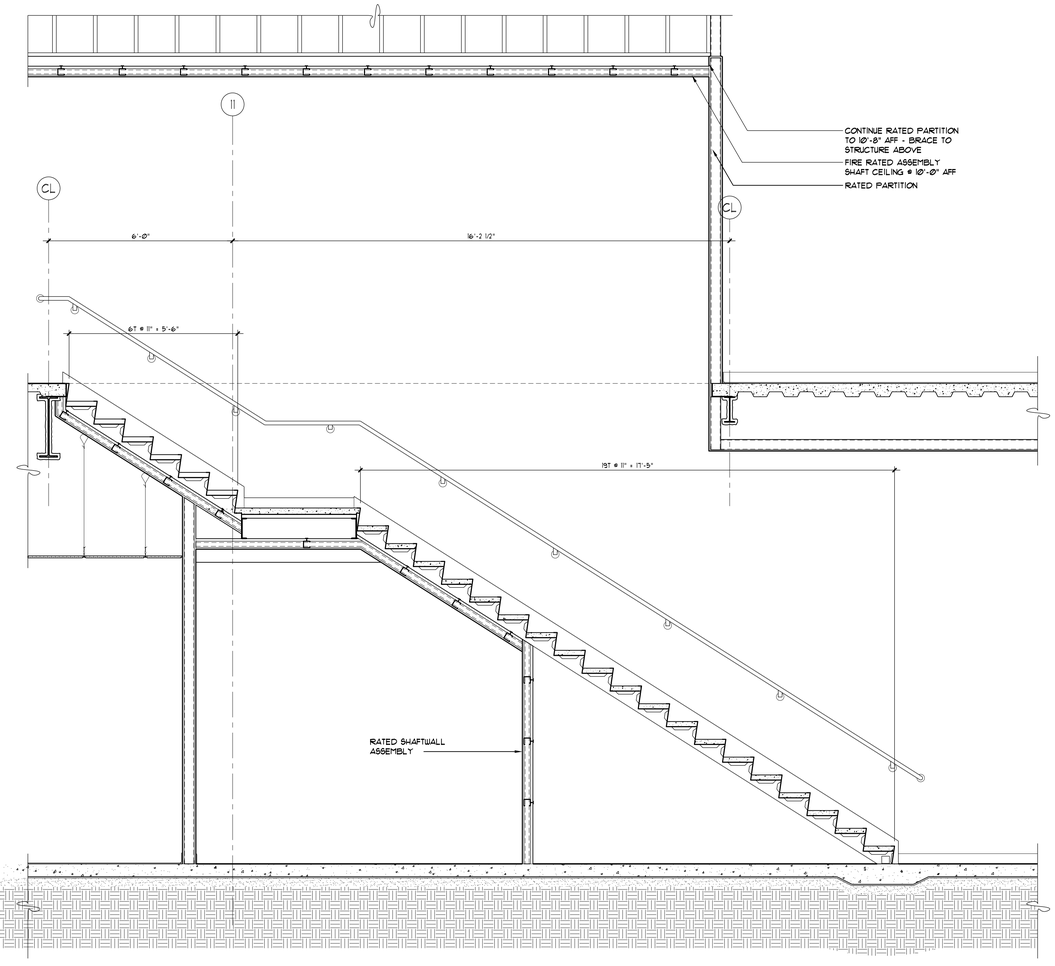
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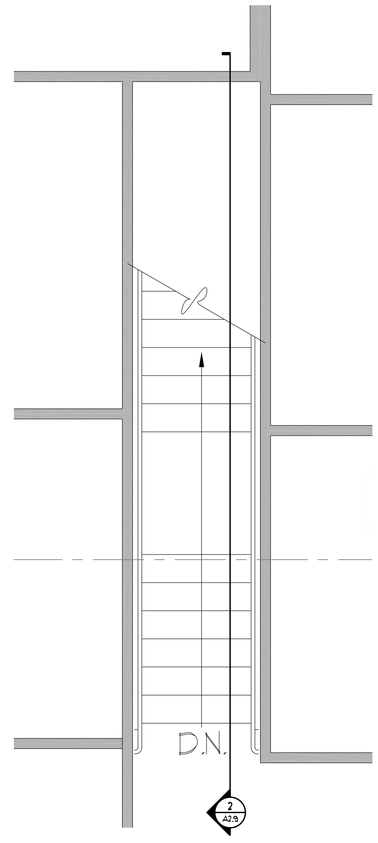
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2 STAIR SECTION

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

A-STDS.DWG



1 STAIR PLAN - SECOND FLOOR

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

A-EP04.DWG

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
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

SHEET NUMBER:

A2.9

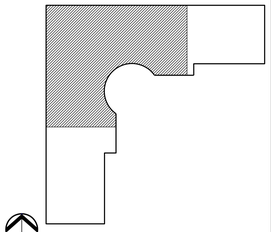
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NORTH

FIRST FLOOR - ZONE A 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
- 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
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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

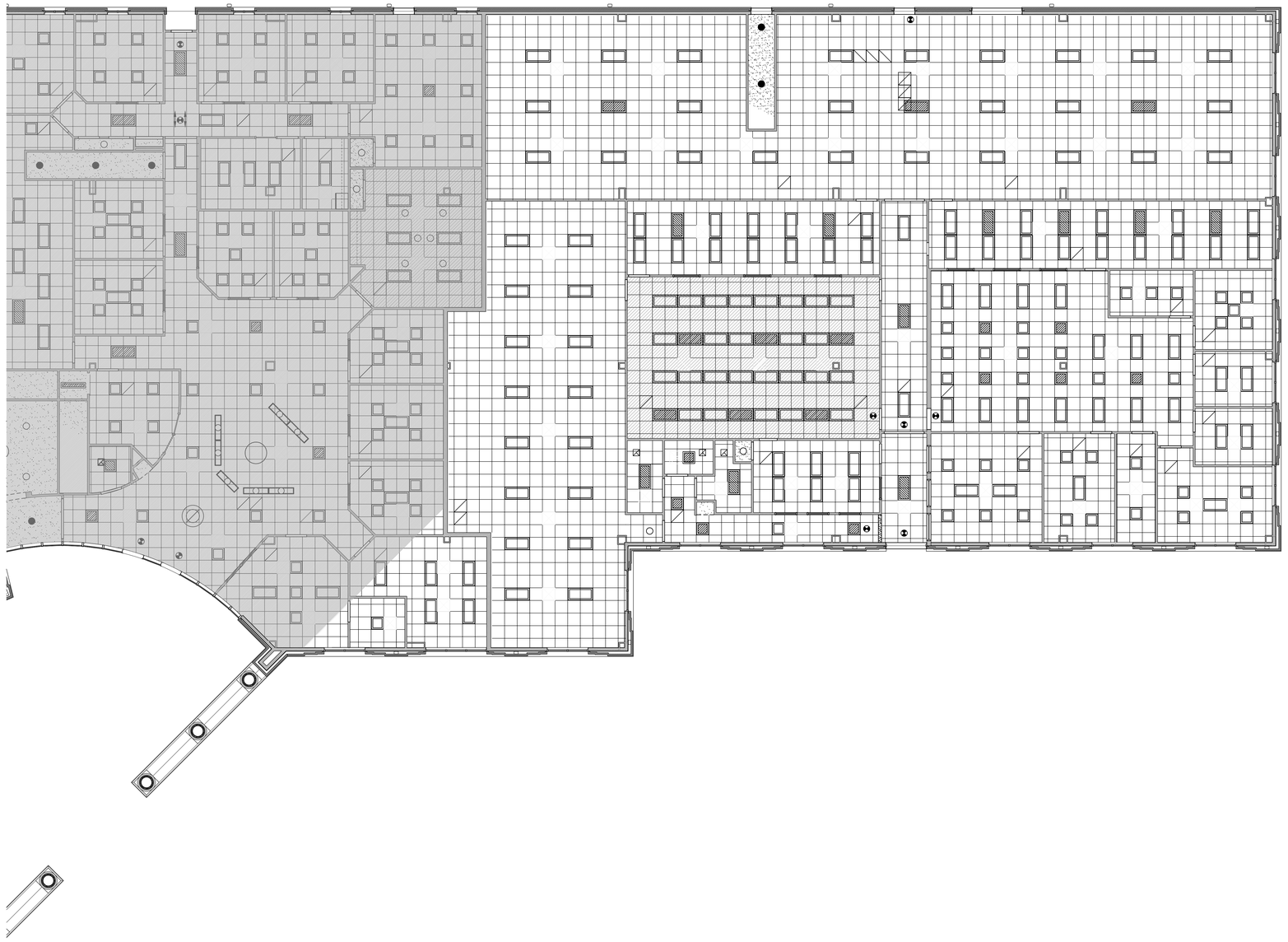
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FIRST FLOOR ZONE A
REFLECTED CEILING PLAN

SHEET NUMBER:

A3.1A

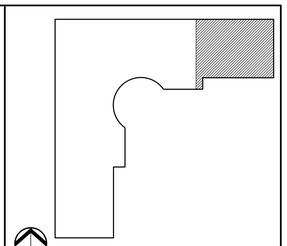
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NORTH

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
- 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	-	-	03-28-07
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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FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

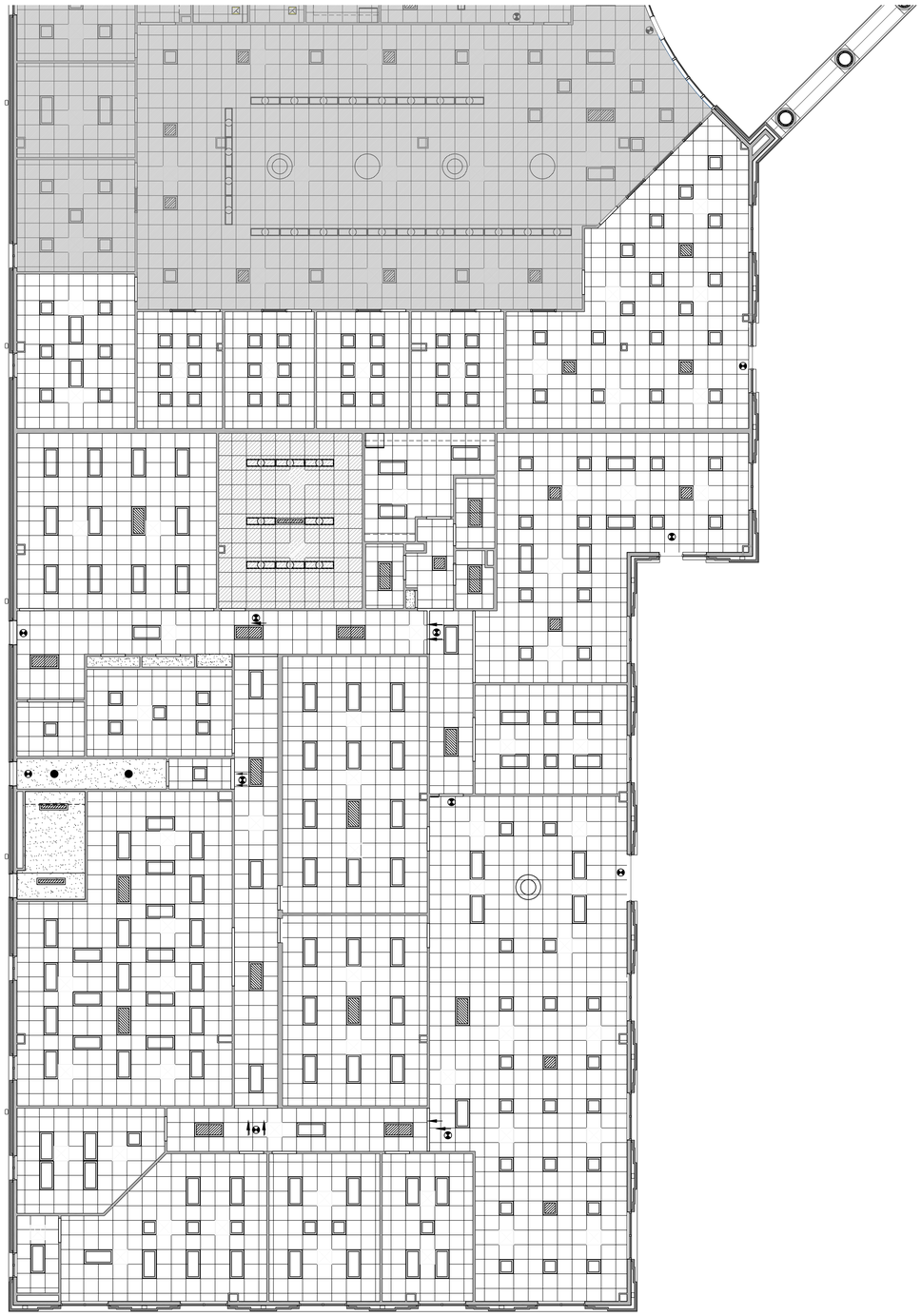
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FIRST FLOOR ZONE B
REFLECTED CEILING PLAN

SHEET NUMBER:

A3.1B

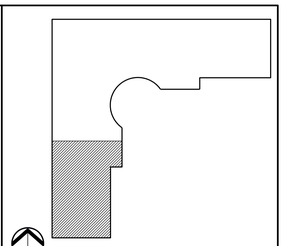
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NORTH

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
- 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	-	-	03-28-07
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

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 REFLECTED CEILING PLAN

SHEET NUMBER:

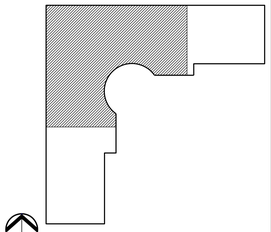
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SECOND FLOOR - ZONE A REFLECTED CEILING PLAN

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
- 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	·	·	03-20-07
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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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE A REFLECTED CEILING PLAN

SHEET NUMBER:

A3.2A

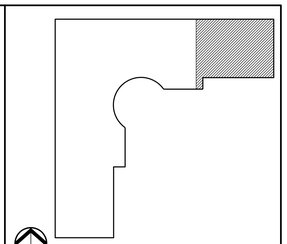
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NORTH

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
- 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	-	-	03-28-07
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

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

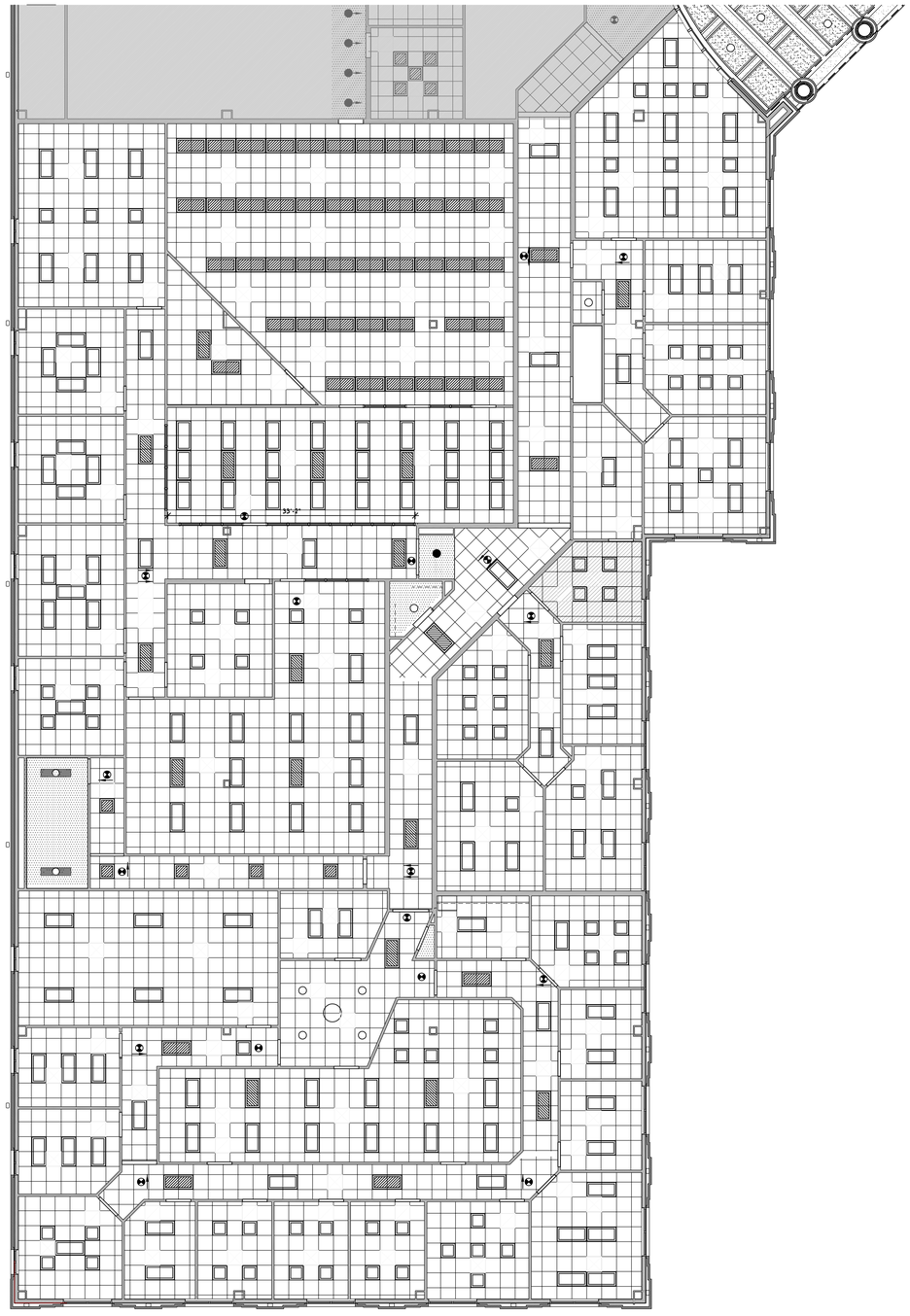
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SECOND FLOOR ZONE B REFLECTED CEILING PLAN

SHEET NUMBER:

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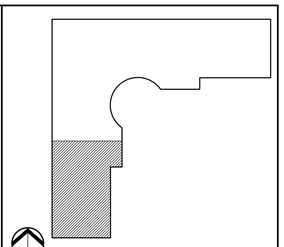
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NORTH

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
- SUSPENDED GYPSUM BOARD CEILING
- EIFS SOFFIT
- EXPOSED STRUCTURE

NOTES

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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

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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FAX: (850) 230-3564
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

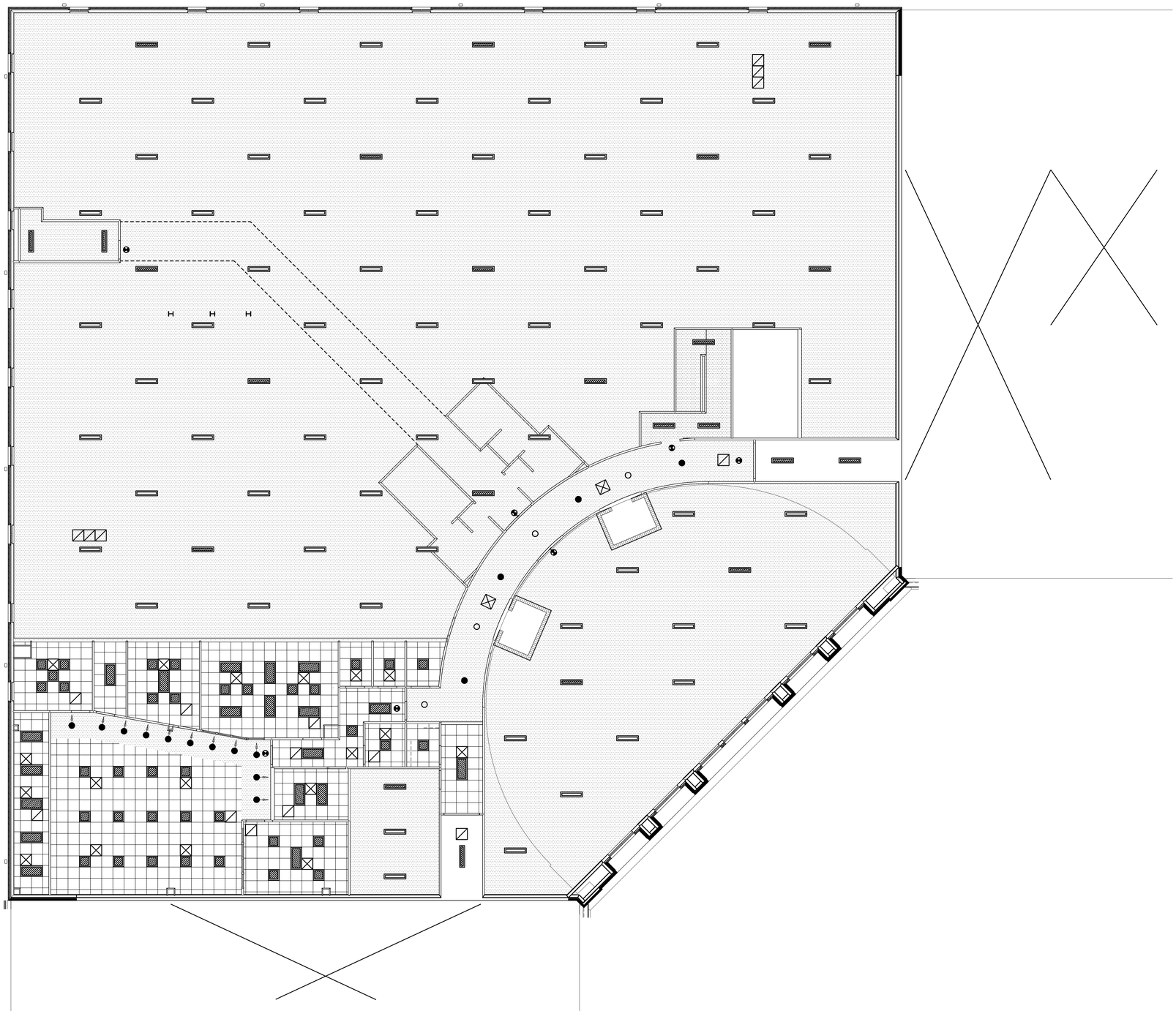
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SECOND FLOOR ZONE C REFLECTED CEILING PLAN

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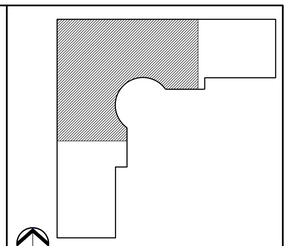
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THIRD FLOOR - ZONE A REFLECTED CEILING PLAN

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
- 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

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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

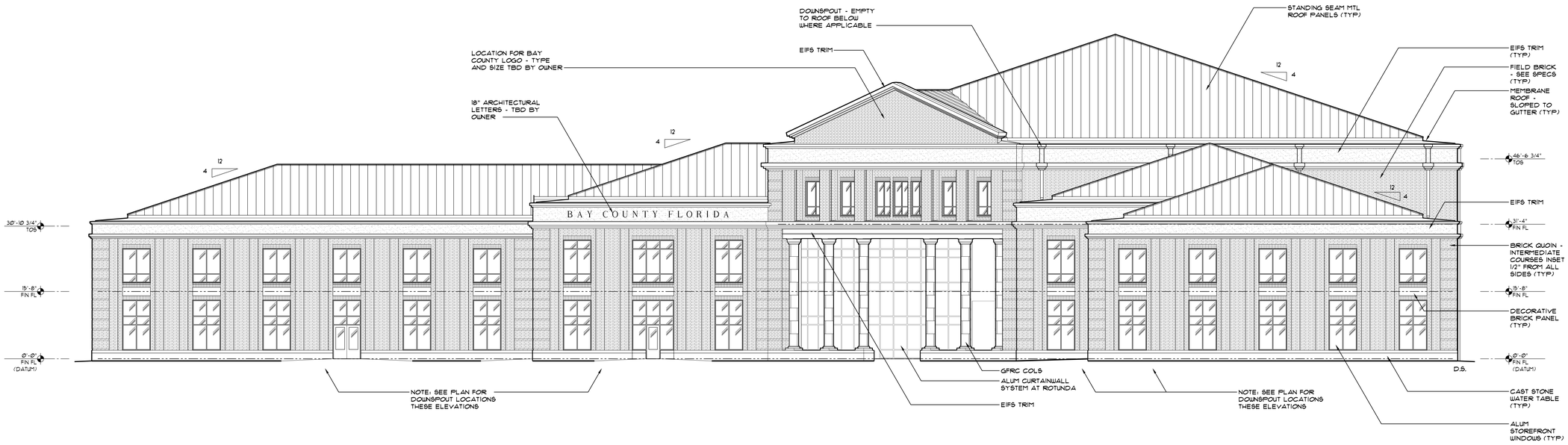
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THIRD FLOOR ZONE A REFLECTED CEILING PLAN

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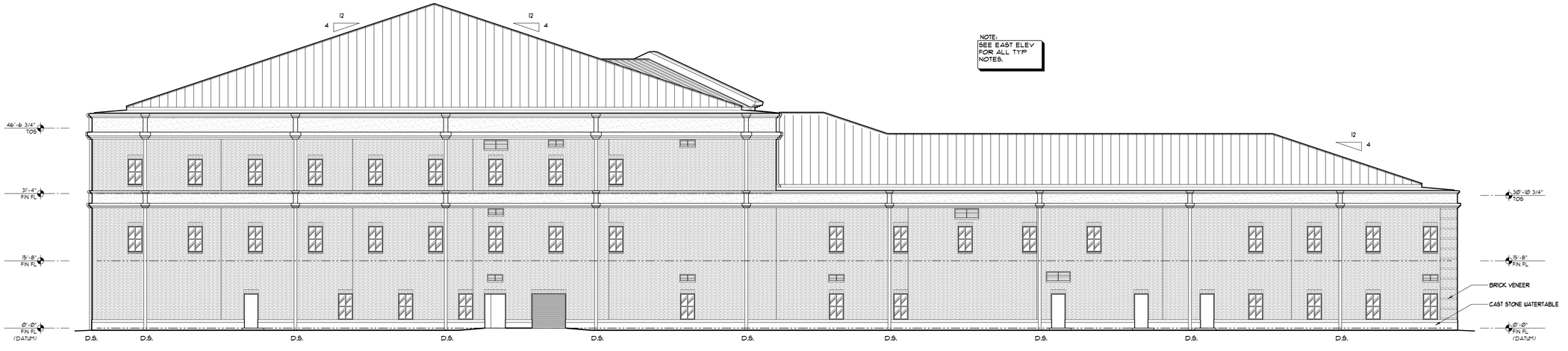
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EAST ELEVATION

SCALE: 3/32" = 1'-0"

A-EL-BLDG



WEST 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	-	-	01-18-08
BID DOCUMENTS	CJ	DB	03-03-08

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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

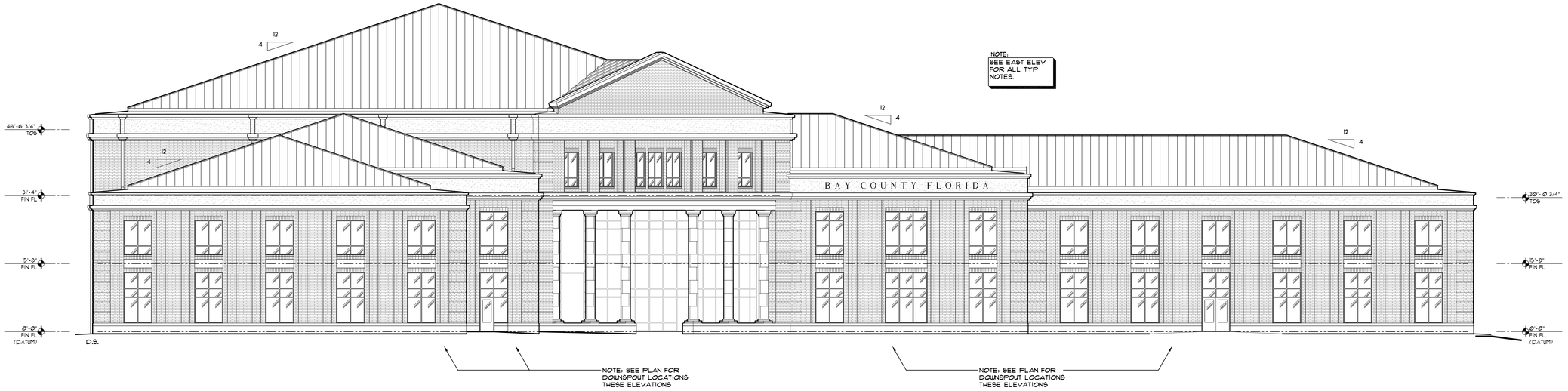
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EXTERIOR ELEVATIONS

SHEET NUMBER:

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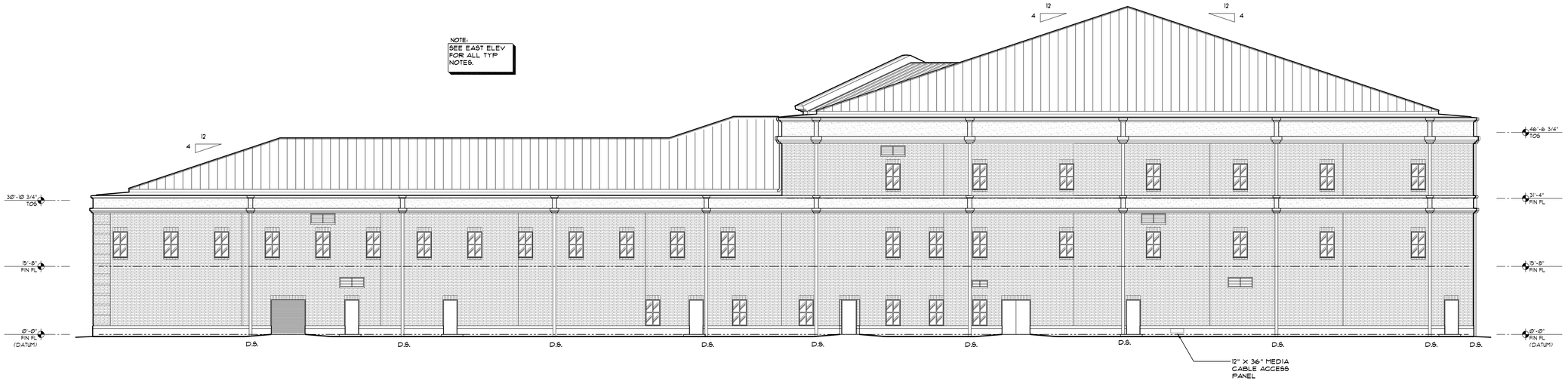
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SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

A-EL-BLDG



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	-	-	01-18-08
BID DOCUMENTS	CJ	DB	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

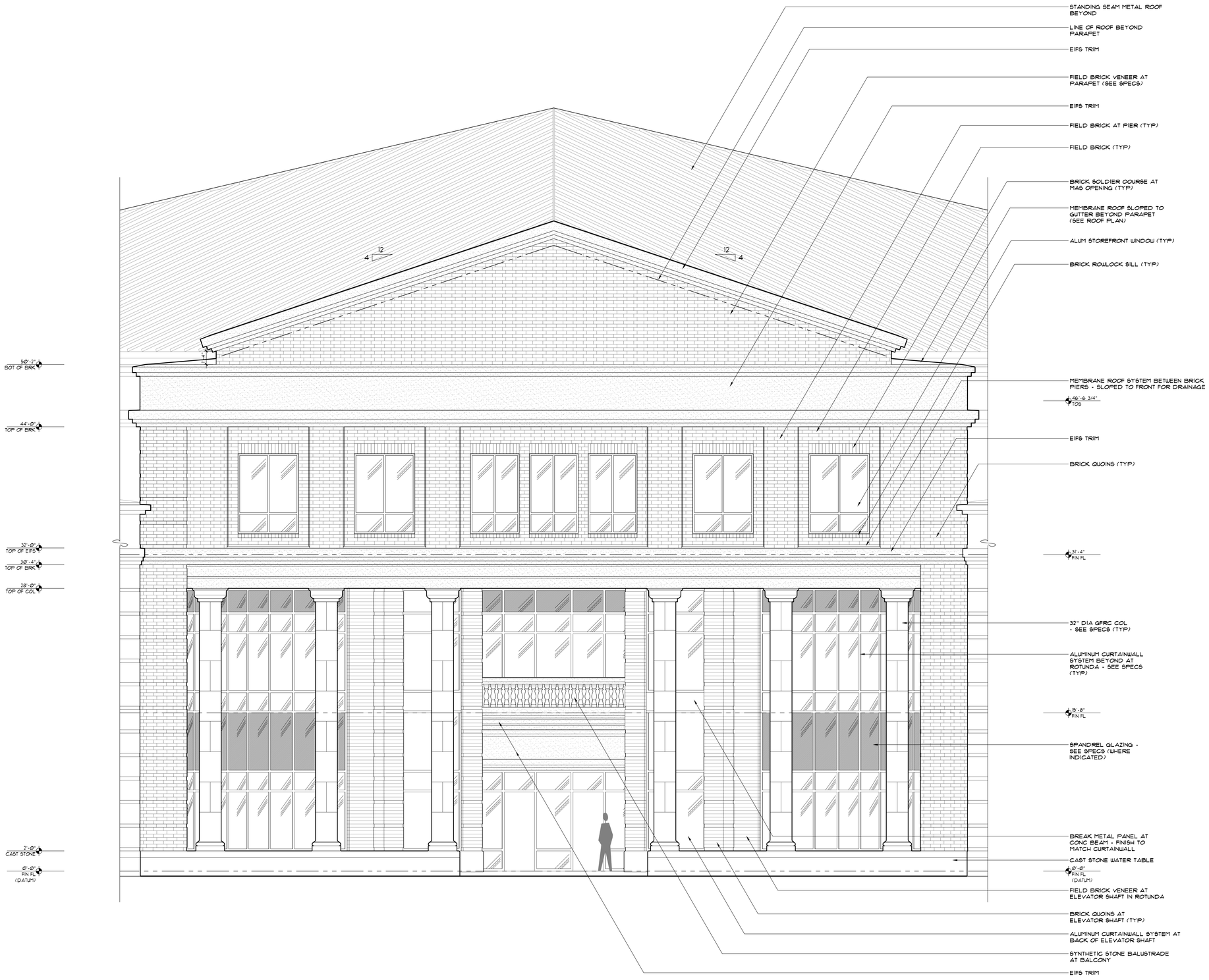
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EXTERIOR ELEVATIONS

SHEET NUMBER:

A4.2

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SOUTHEAST ELEVATION

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

A-EL-BLDG

\\ftlserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A4 - EXTERIOR ELEVATIONS\A4.3 EXTERIOR ELEVATIONS.dwg, 3/18/2008 11:08:35 AM, gjackson

REVISIONS:

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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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	CJ	DB	03-03-08

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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

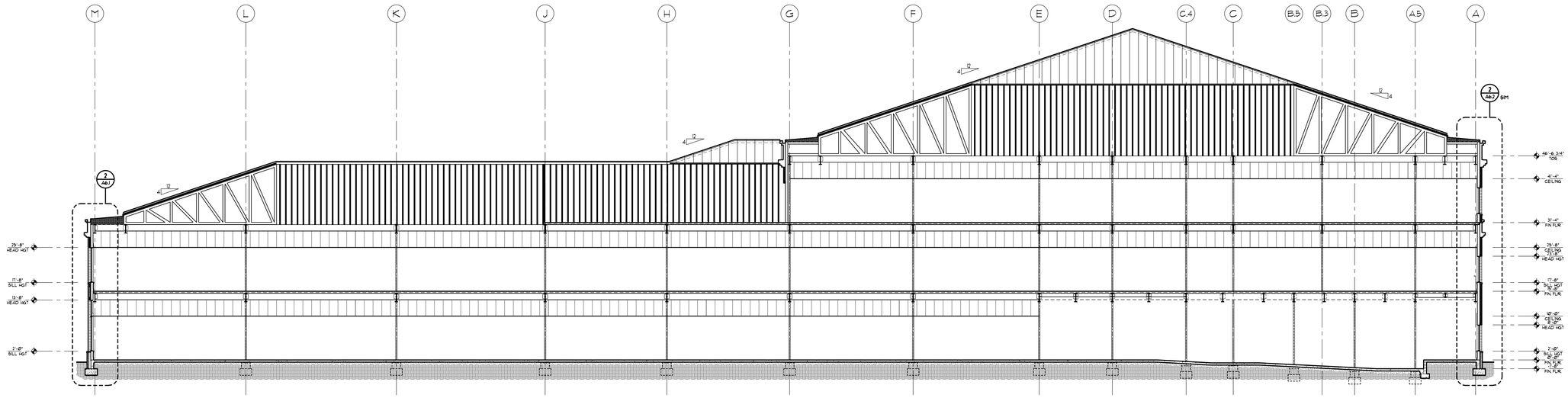
PANAMA CITY, FLORIDA

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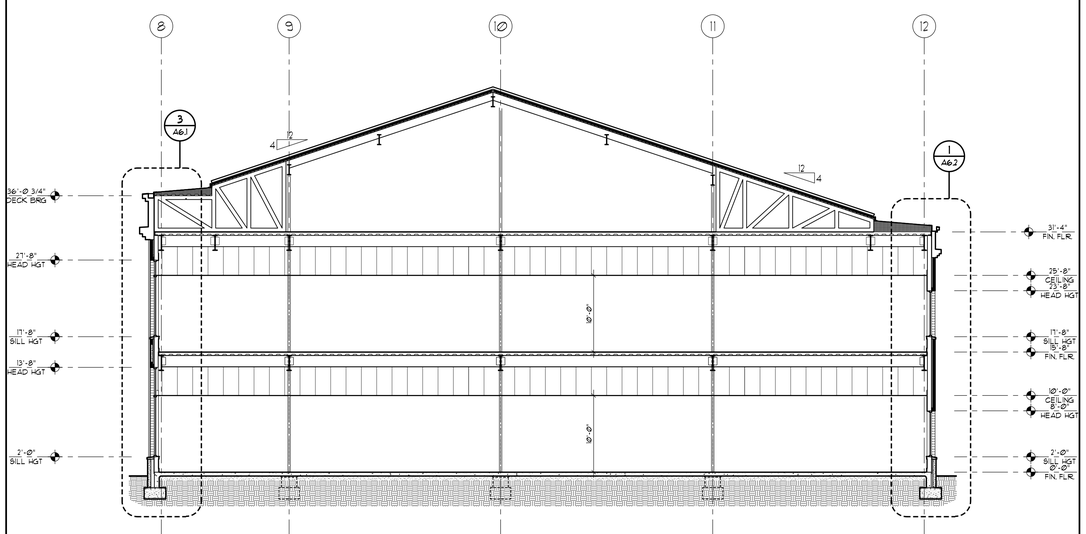
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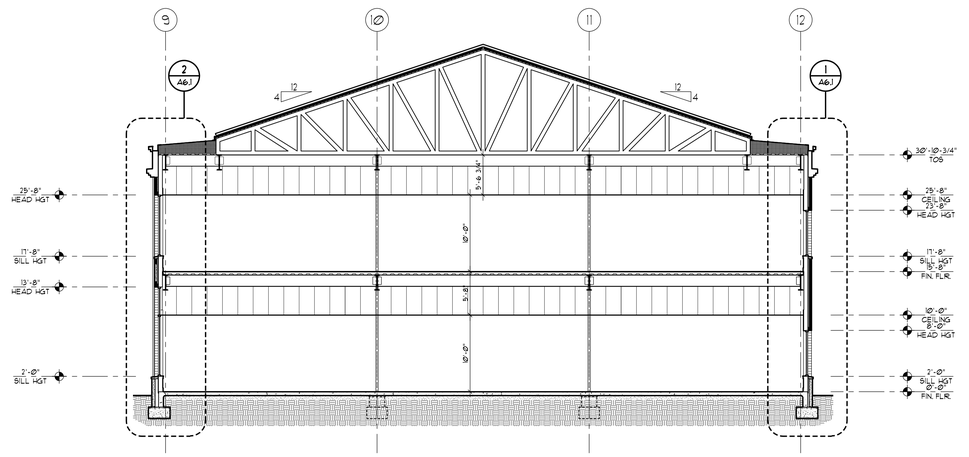
A4.3



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	-	-	03-28-07
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:

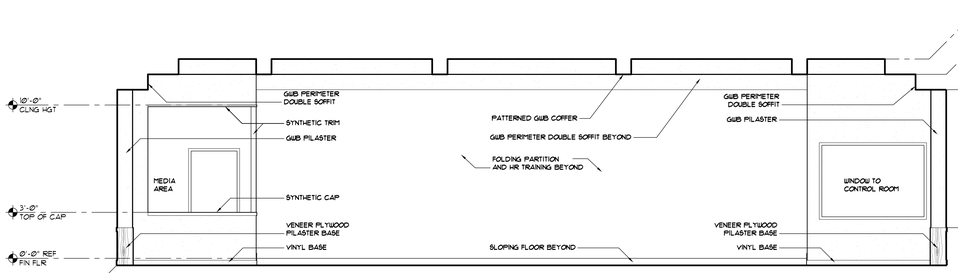
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
BUILDING SECTIONS

SHEET NUMBER:
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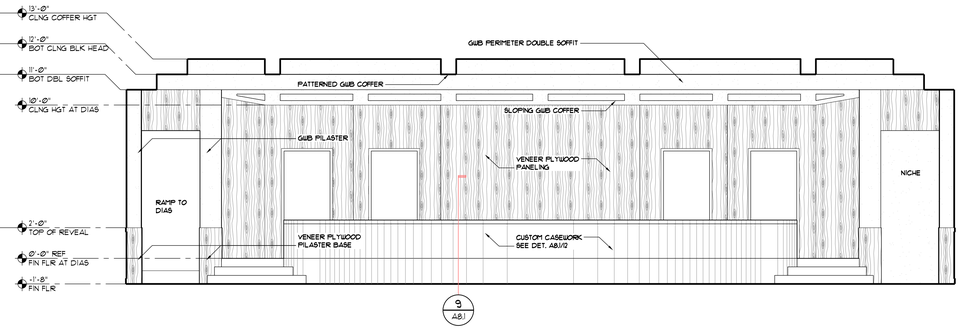
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7 INTERIOR ELEV COMM. CHAMBER

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

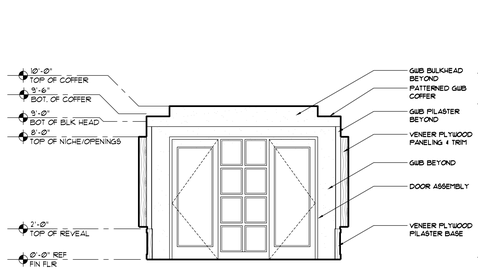
A-L-01



4 INTERIOR ELEV COMM. CHAMBER

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

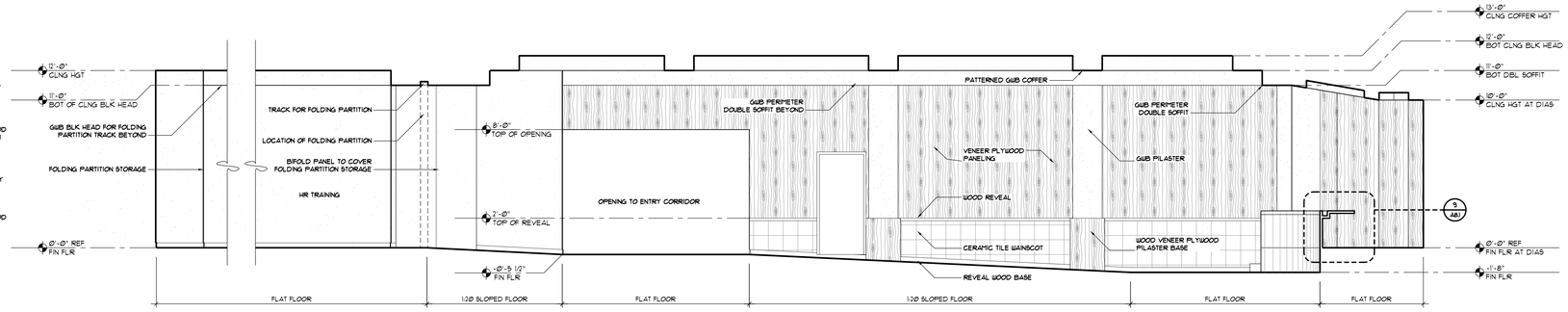
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6 INTERIOR ELEV CHAMBER ENTRY

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

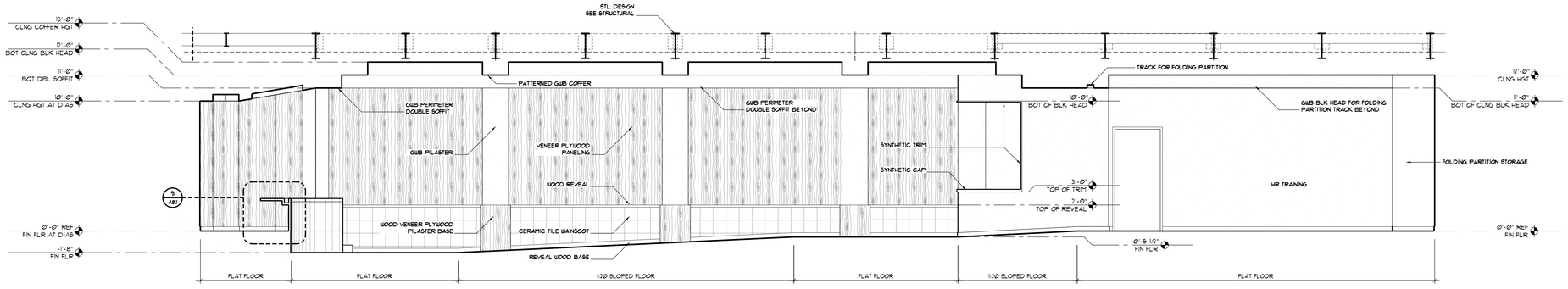
A-L-01



3 INTERIOR ELEV COMM. CHAMBER

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

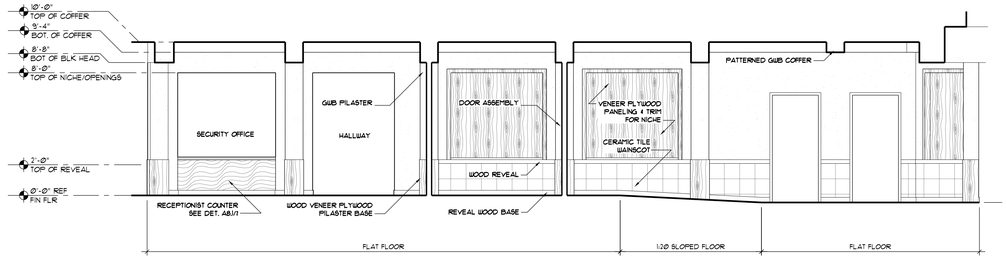
A-L-01



2 INTERIOR ELEV COMM. CHAMBER

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

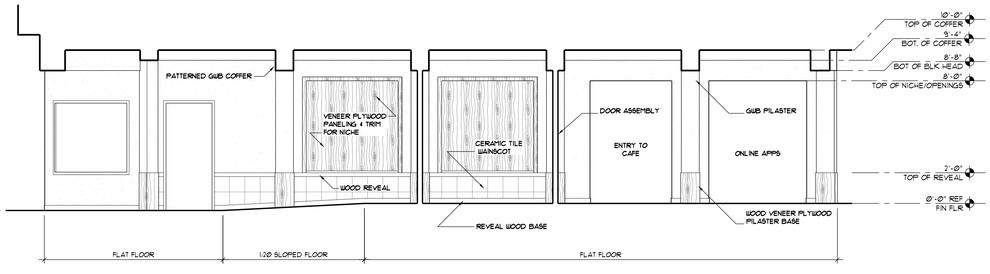
A-L-01



5 INTERIOR ELEV CHAMBER ENTRY

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

A-L-01



1 INTERIOR ELEV CHAMBER ENTRY

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

A-L-01

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) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

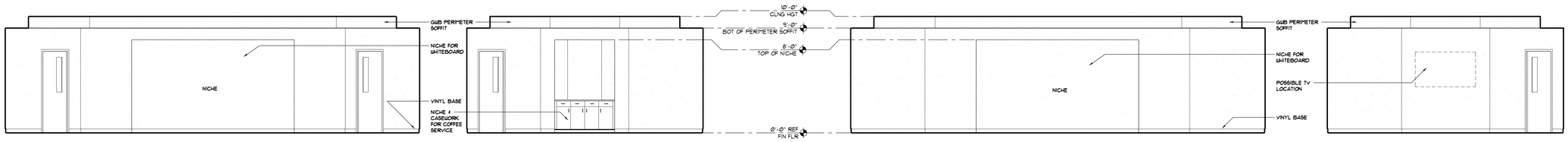
SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NUMBER:

A5.2

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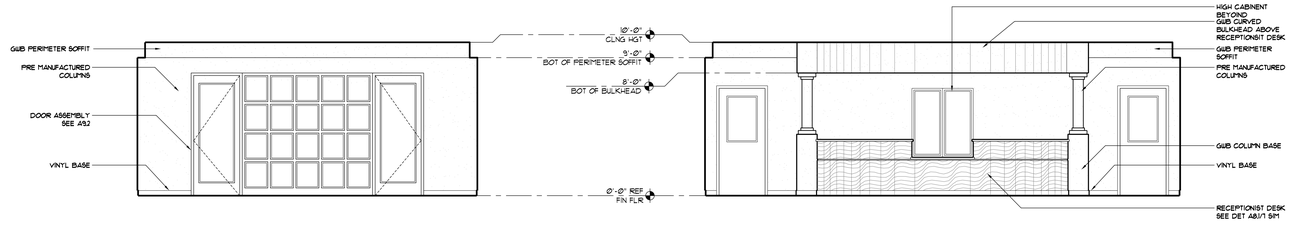


6 INTERIOR ELEV ADMIN. CONF.
SCALE: 1/4" = 1'-0" A-IL-01

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	·	·	03-20-07
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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CONSULTANTS:

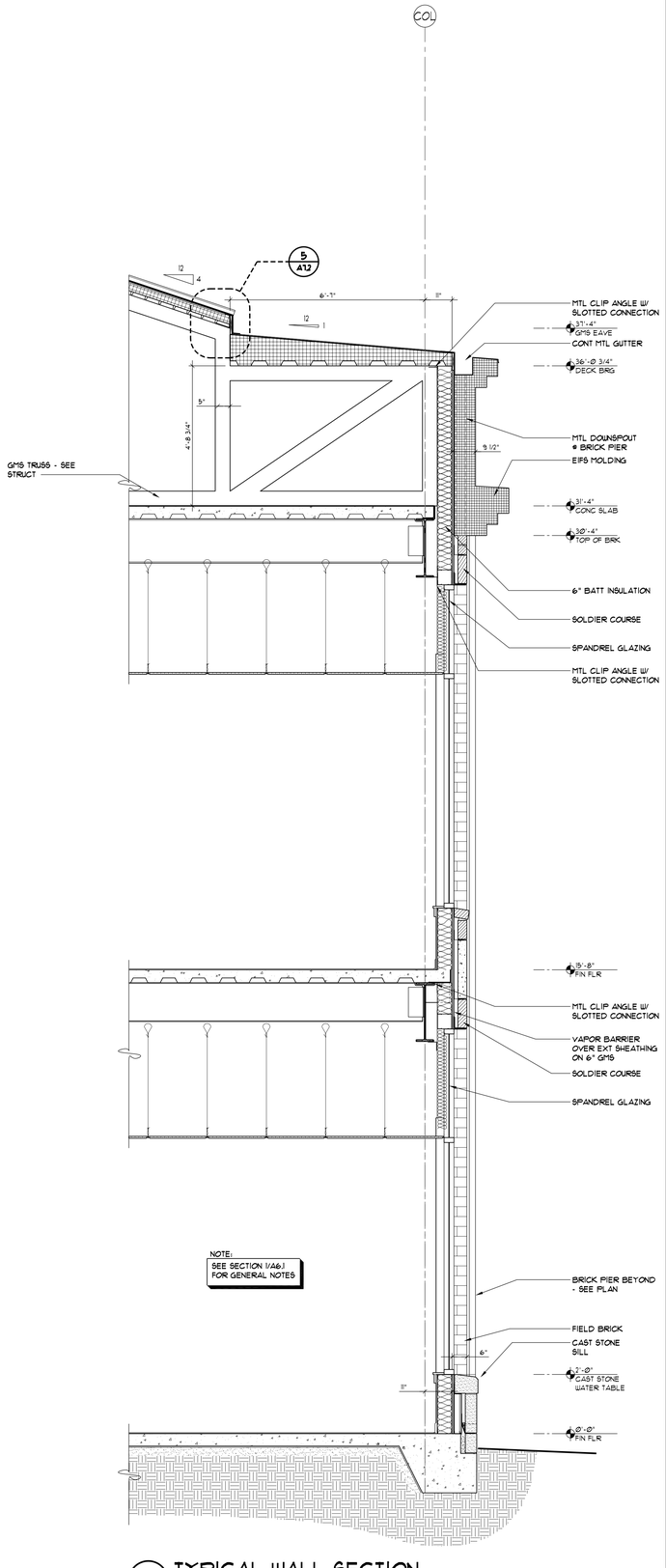
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
INTERIOR ELEVATIONS

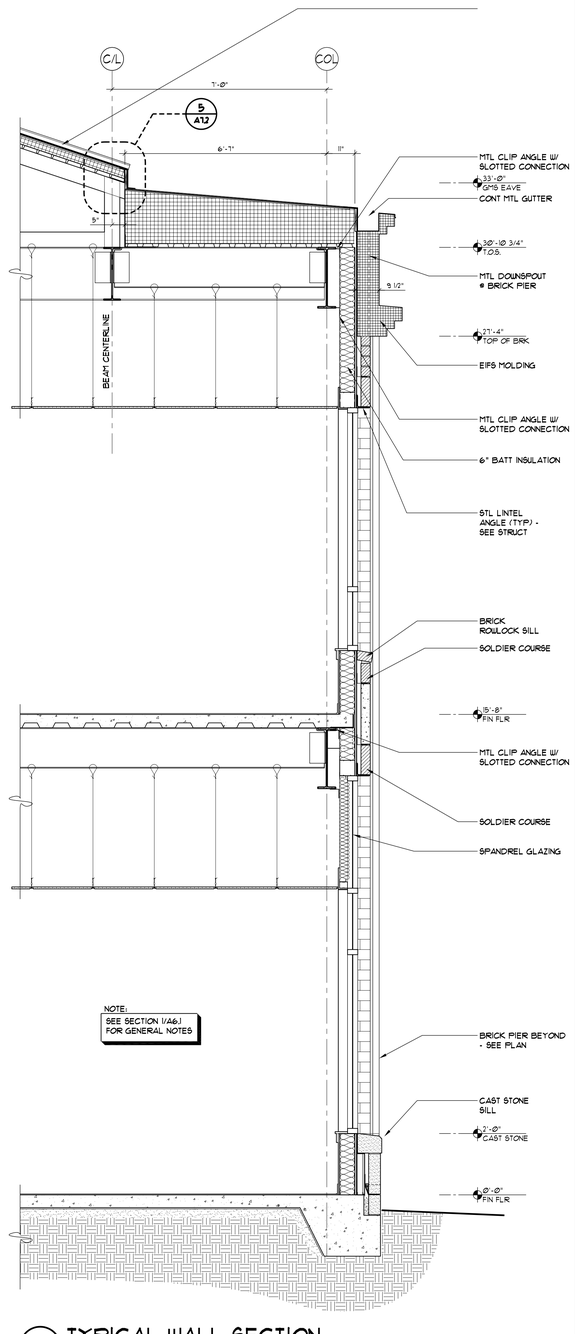
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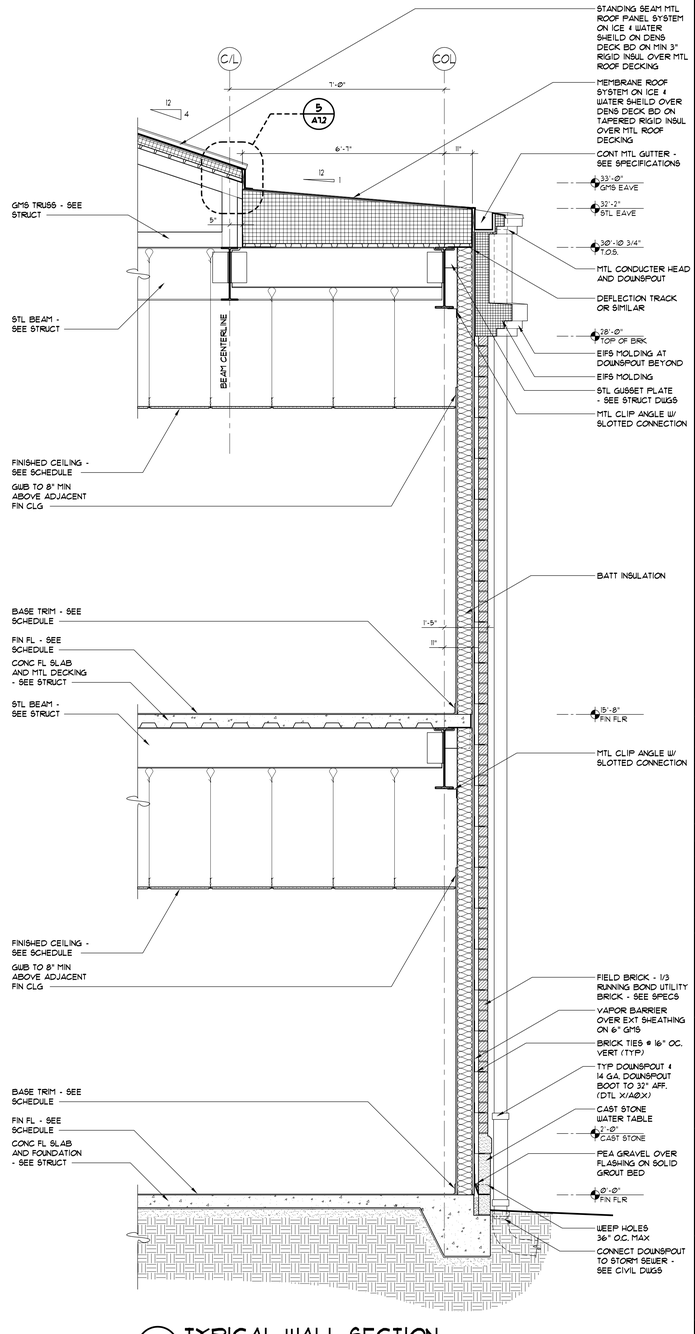
3 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-Ø" A-SCB3.DWG



2 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-Ø" A-SCB2.DWG



1 TYPICAL WALL SECTION

SCALE: 1/2" = 1'-Ø" A-SCB1.DWG

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	Ø3-2Ø-Ø7
DESIGN DEVELOPMENT	-	-	Ø6-Ø6-Ø7
DD OWNER REVIEW	-	-	Ø8-Ø8-Ø7
75% CONSTRUCTION DOCUMENTS	-	-	11-16-Ø1
1ØØ% PROGRESS SET	-	-	Ø1-18-Ø8
BID DOCUMENTS	-	-	Ø3-Ø3-Ø8

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BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

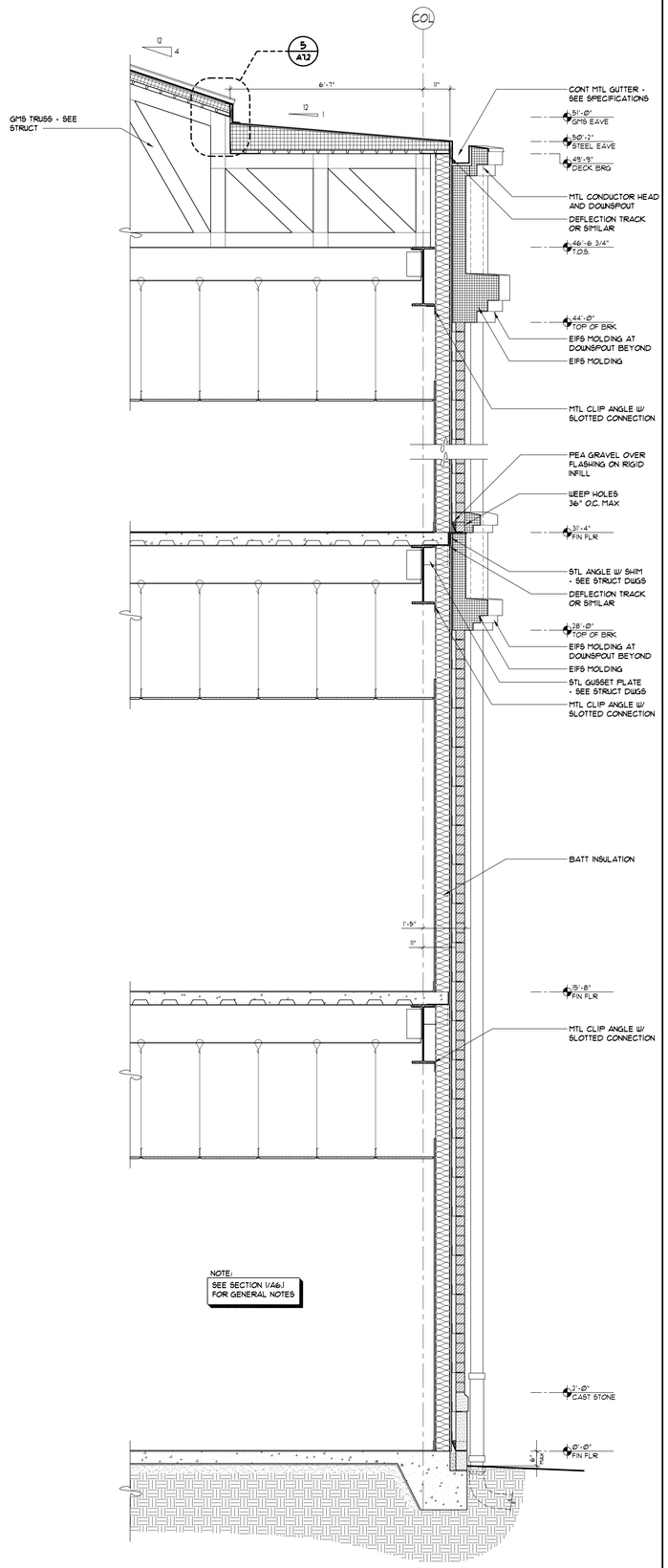
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WALL SECTIONS

SHEET NUMBER:

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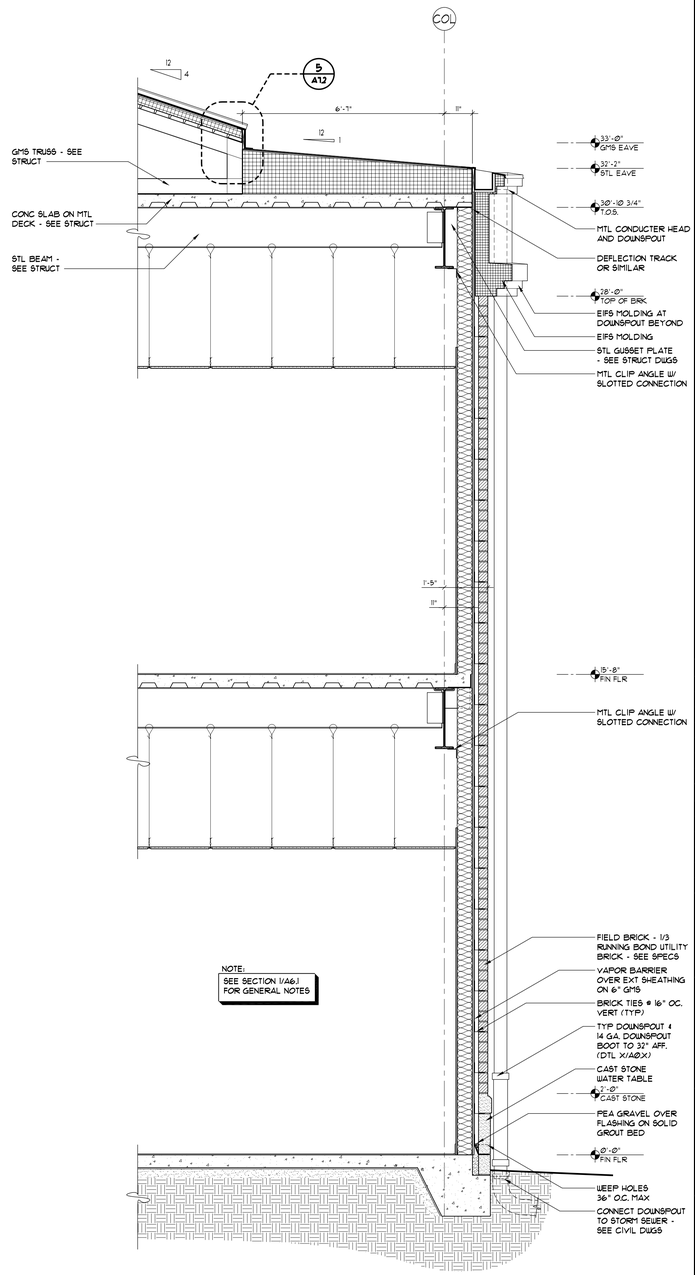
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2 TYPICAL WALL SECTION

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

A-SC05.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	-	-	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

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

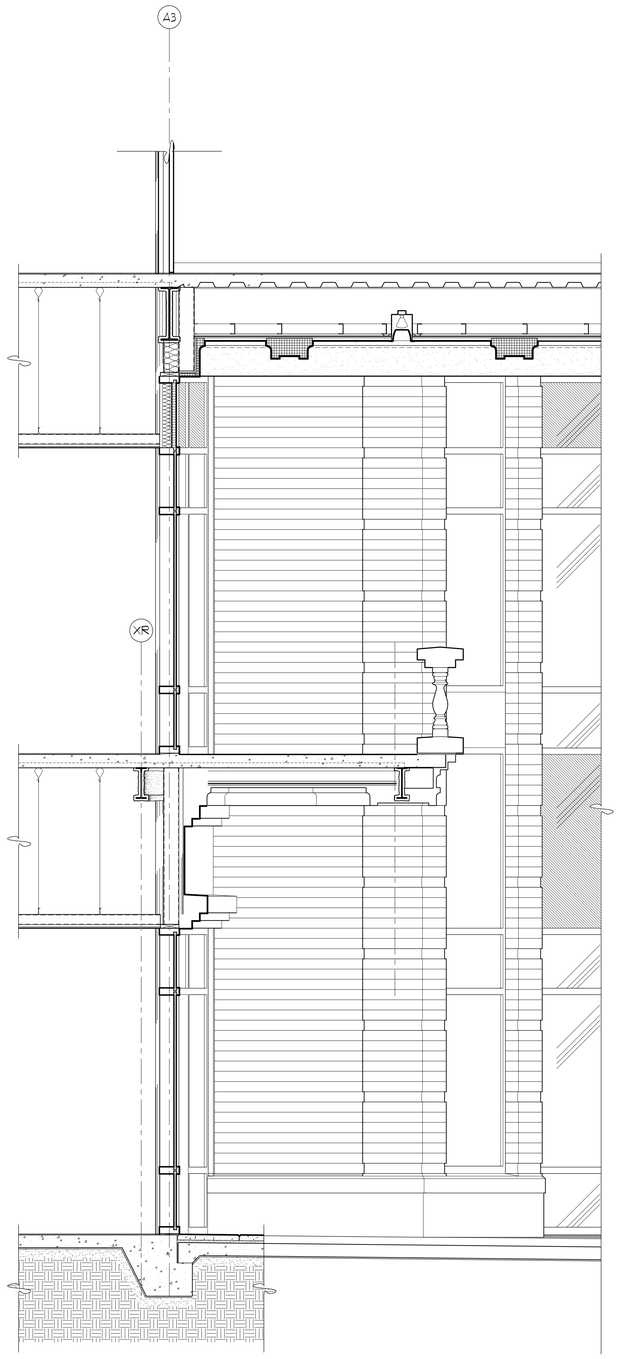
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WALL SECTIONS

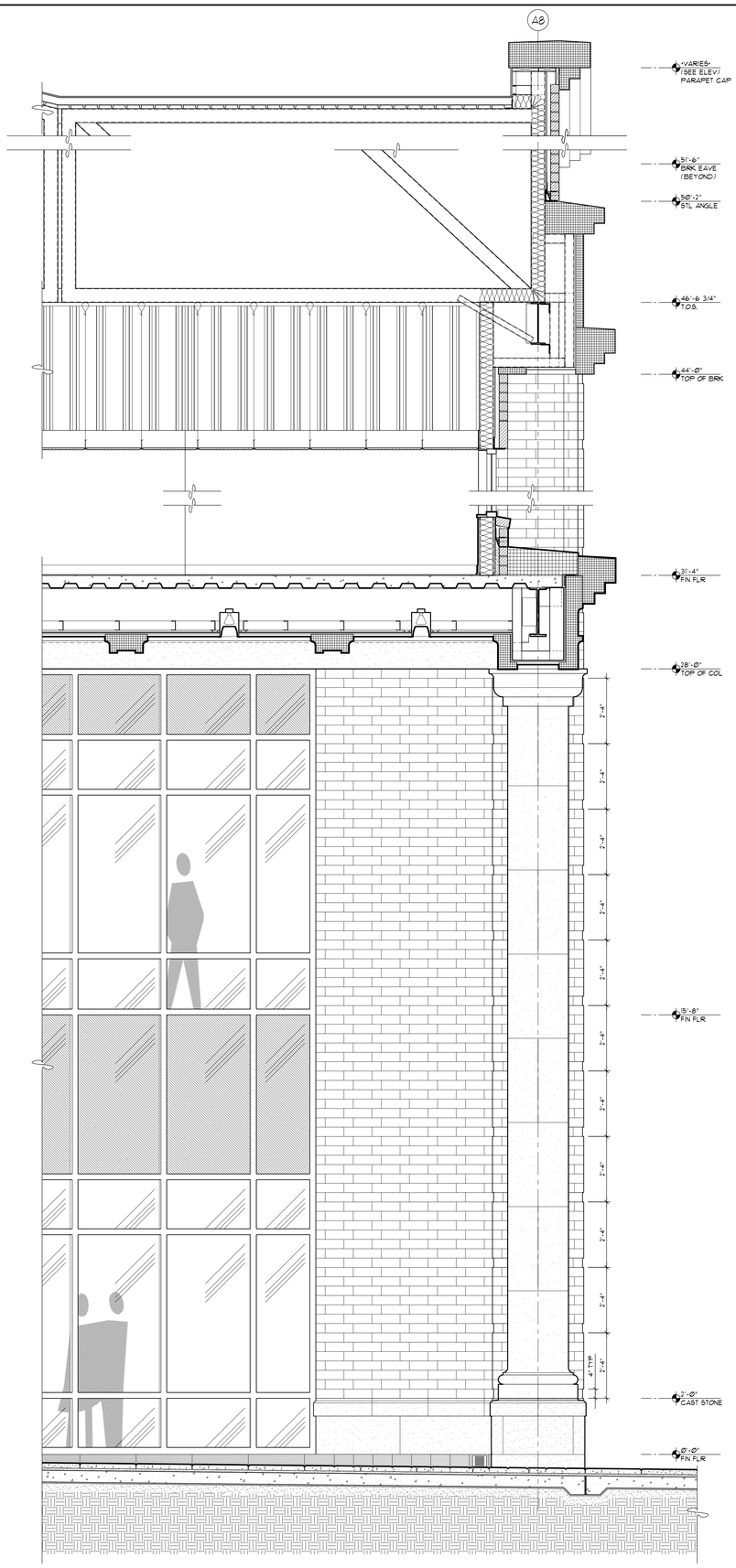
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2 ENTRANCE SECTION
SCALE: 1/2" = 1'-0"
A-SC13.DWG



1 TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"
A-SC12.DWG

\\fltserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A6 - WALL SECTIONS\A6.4 WALL SECTIONS.dwg, 3/18/2008 10:35:16 AM, cjackson

REVISIONS:

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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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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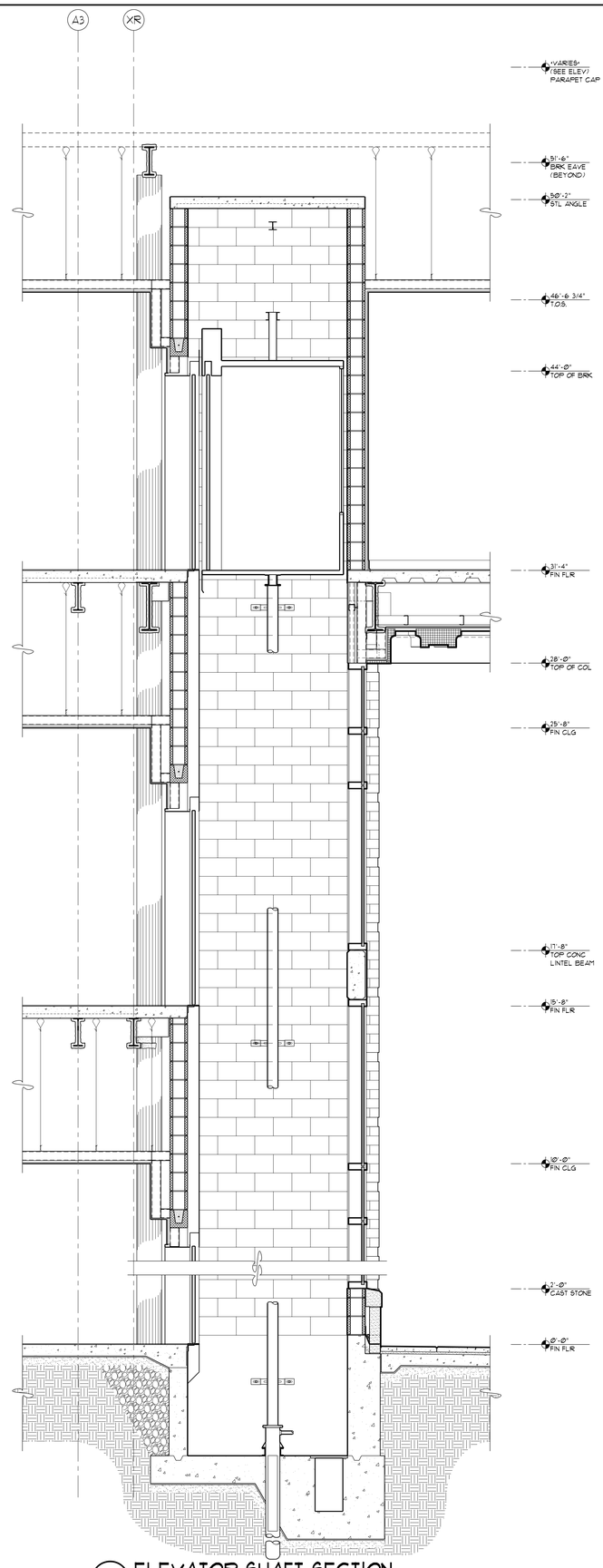
CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

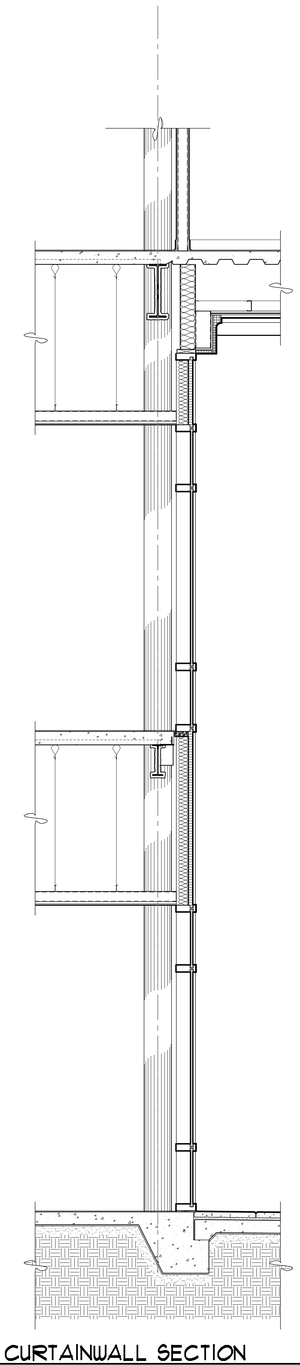
PANAMA CITY, FLORIDA

SHEET TITLE:
WALL SECTIONS

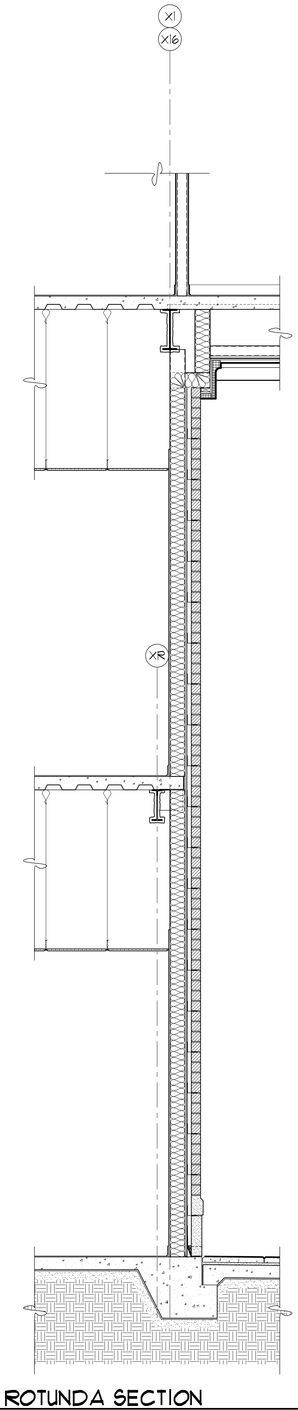
SHEET NUMBER:
A6.3



3 ELEVATOR SHAFT SECTION
SCALE: 1/2" = 1'-0" A-8CD3.DWG



2 CURTAINWALL SECTION
SCALE: 1/2" = 1'-0" A-8C11.DWG



1 ROTUNDA SECTION
SCALE: 1/2" = 1'-0" A-8C12.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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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CONSULTANTS:

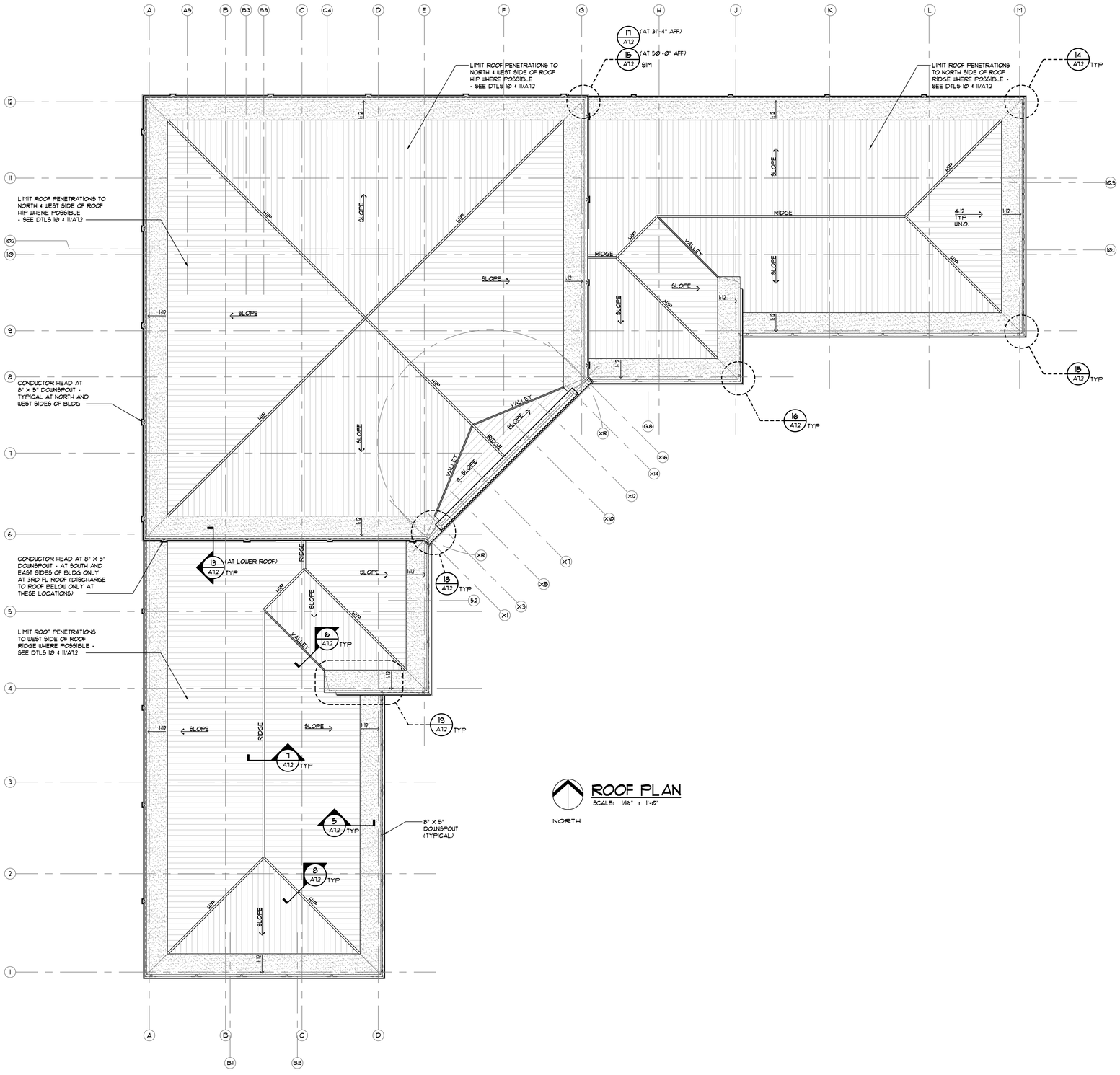
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
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ROOF PLAN

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

NORTH

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

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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

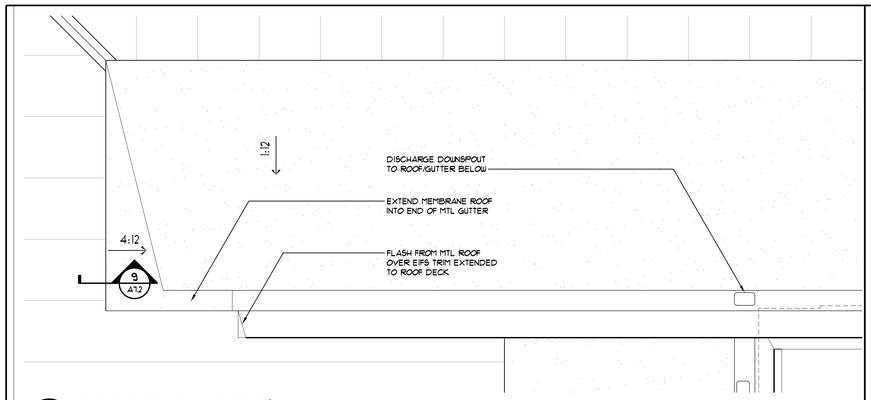
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SHEET NUMBER:

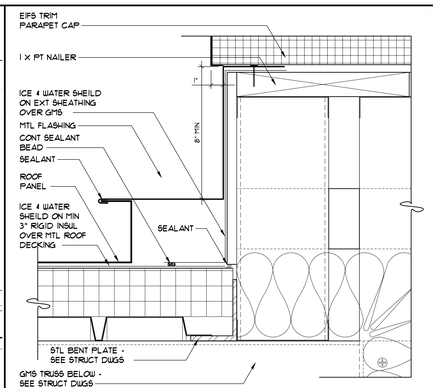
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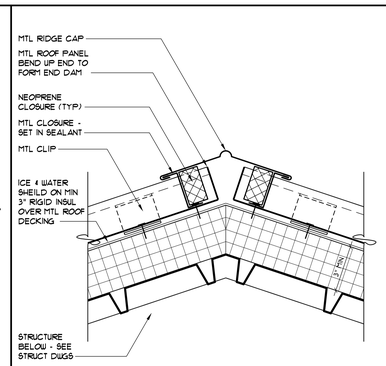
19 ROOF PLAN DETAIL

SCALE: 1/2" = 1'-0" A-DT-038.DWG



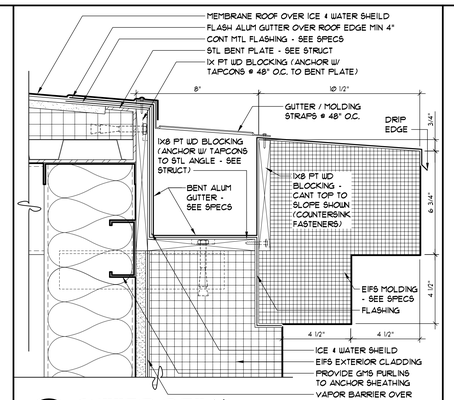
12 ROOF DETAIL

SCALE: 3" = 1'-0" A-DT-076.DWG



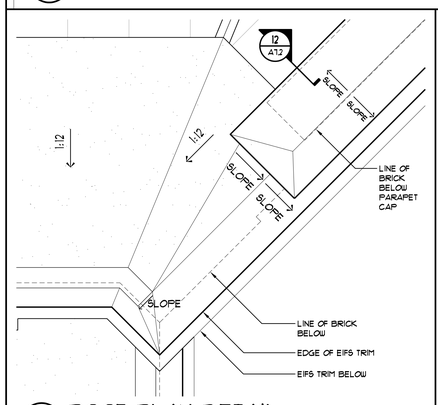
8 HIP DETAIL

SCALE: 3" = 1'-0" A-DT-042.DWG



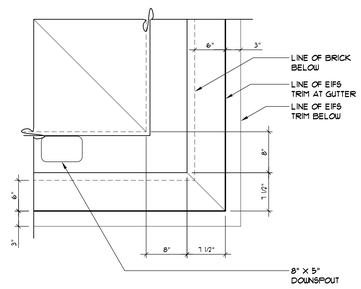
4 GUTTER DETAIL

SCALE: 3" = 1'-0" A-DT-030.DWG



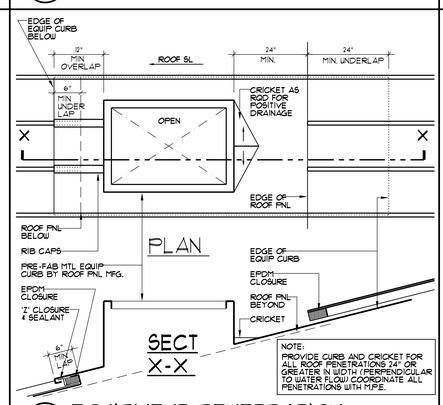
18 ROOF PLAN DETAIL

SCALE: 1/2" = 1'-0" A-DT-039.DWG



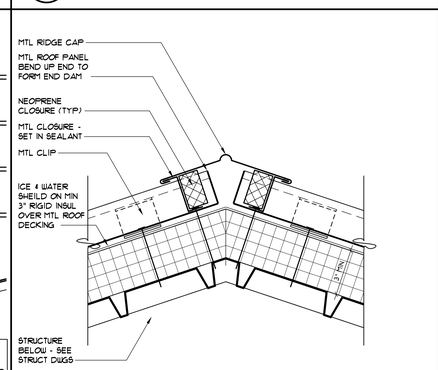
15 ROOF PLAN DETAIL

SCALE: 1" = 1'-0" A-DT-036.DWG



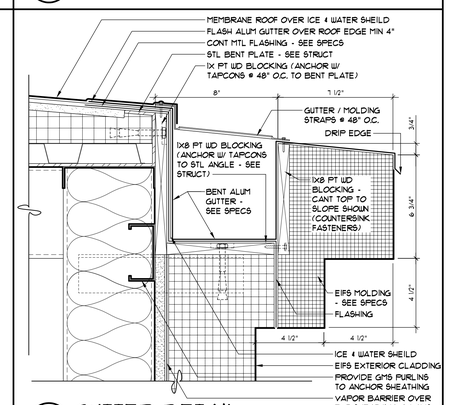
11 EQUIPMENT PENETRATION

SCALE: N.T.S. A-DT-041.DWG



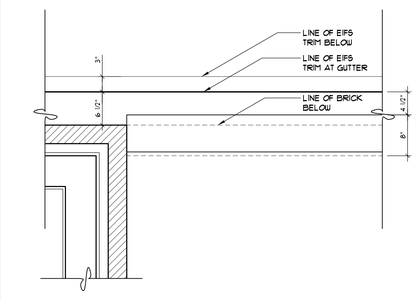
7 RIDGE DETAIL - NONVENTED

SCALE: 3" = 1'-0" A-DT-032.DWG



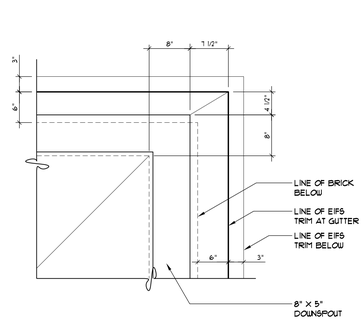
3 GUTTER DETAIL

SCALE: 3" = 1'-0" A-DT-029.DWG



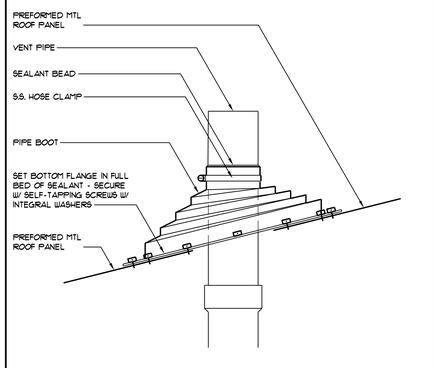
17 ROOF PLAN DETAIL

SCALE: 1" = 1'-0" A-DT-979.DWG



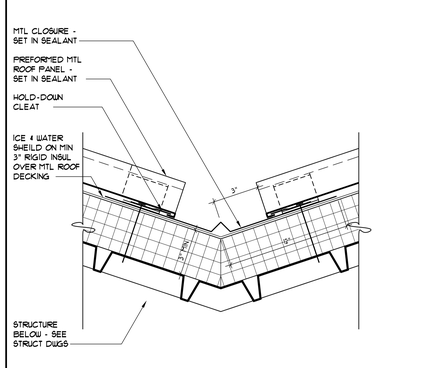
14 ROOF PLAN DETAIL

SCALE: 1" = 1'-0" A-DT-035.DWG



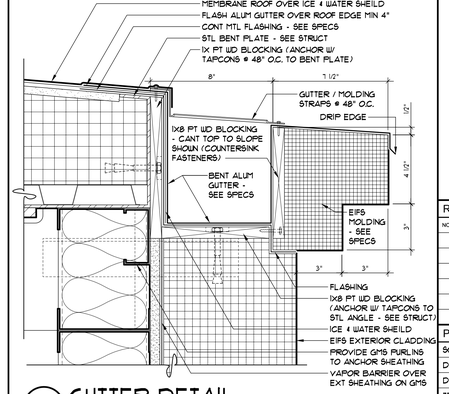
10 TYP PIPE PENETRATION

SCALE: N.T.S. A-DT-048.DWG



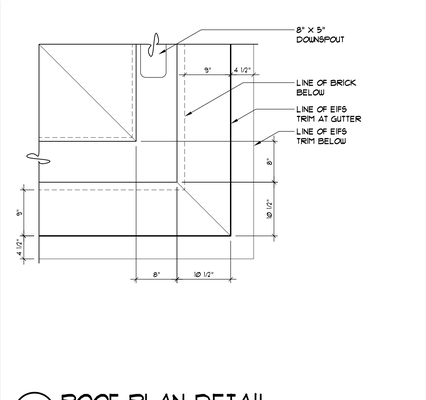
6 VALLEY DETAIL

SCALE: 3" = 1'-0" A-DT-033.DWG



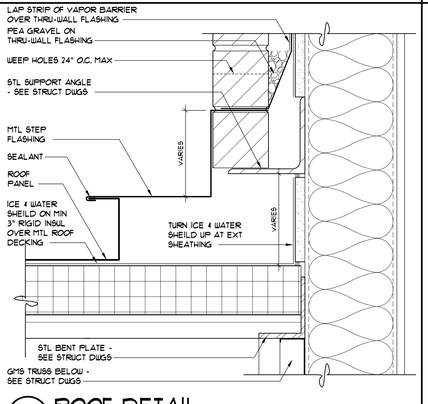
2 GUTTER DETAIL

SCALE: 3" = 1'-0" A-DT-028.DWG



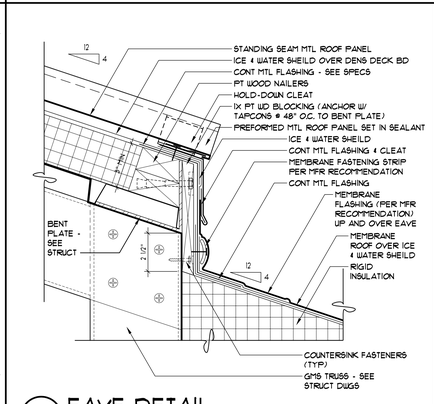
16 ROOF PLAN DETAIL

SCALE: 1" = 1'-0" A-DT-037.DWG



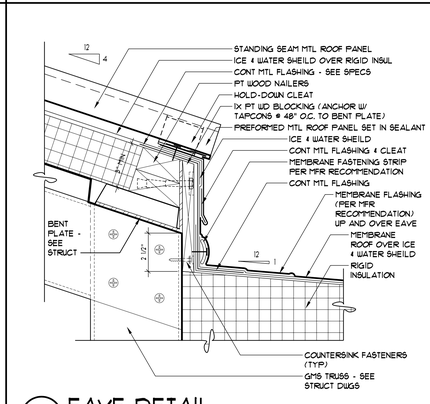
13 ROOF DETAIL

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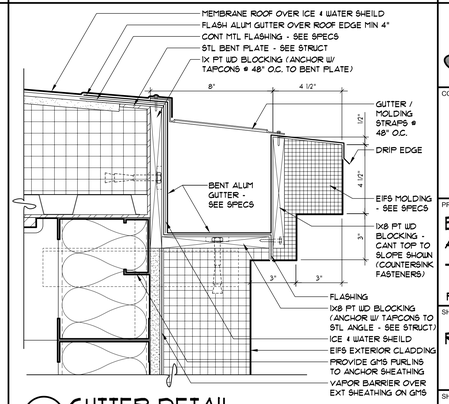
9 EAVE DETAIL

SCALE: 3" = 1'-0" A-DT-043.DWG



5 EAVE DETAIL

SCALE: 3" = 1'-0" A-DT-034.DWG



1 GUTTER DETAIL

SCALE: 3" = 1'-0" A-DT-027.DWG

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	CJ	DB	03-03-08

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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

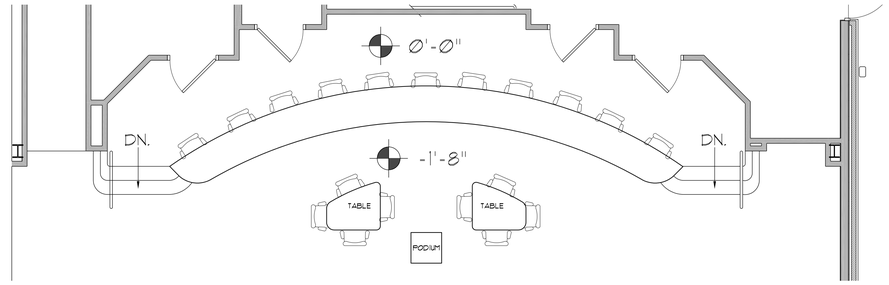
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ROOF DETAILS

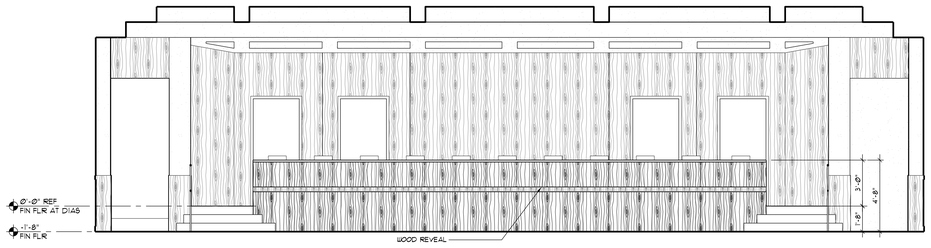
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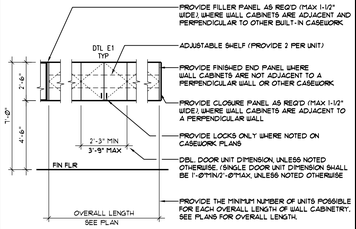
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13 DIAS ENLARGED PLAN
SCALE: 1/4"=1'-Ø"



12 DIAS CASEWORK ELEV.
SCALE: 1/4"=1'-Ø"

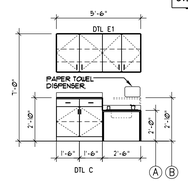


5 TYPICAL UPPER CABINETS
SCALE: 1/4" = 1'-Ø"

PROVIDE BRADLEY "TERREON" SOLID SURFACE COUNTERTOP W/ INTEGRAL SINK OR APPROVED EQUAL. (SEE PLUMB.)

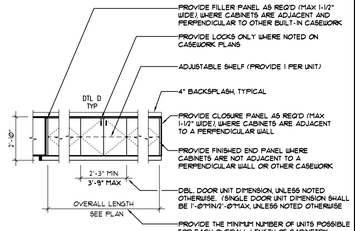
AT 8A, PROVIDE SOLID COUNTER TO MATCH SINK COUNTER ON LOWER SECTION.

AT 8B, PROVIDE CONTINUOUS COUNTER OVER FULL LENGTH OF BASE CABINET.



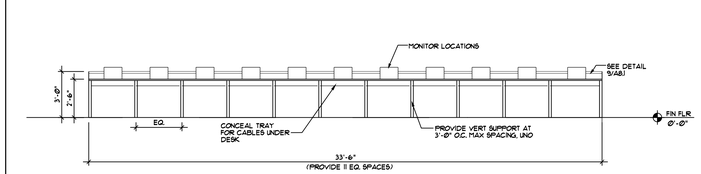
9 ELEVATION
SCALE: 1/4" = 1'-Ø"

CONTRACTOR SHALL VERIFY SINK EXISTENCE IN BASE CABINETS. SEE CASEWORK PLANS FOR LOCATION.

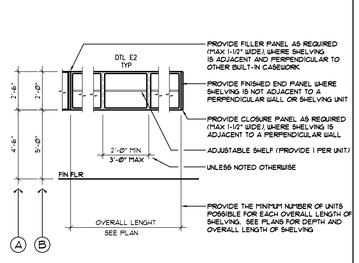


4 TYPICAL BASE CABINETS
SCALE: 1/4" = 1'-Ø"

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.

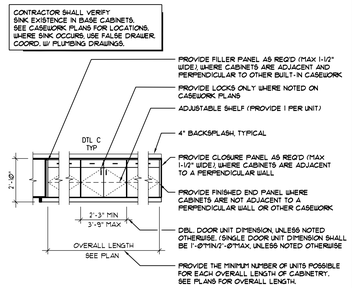


11 REAR ELEVATION
SCALE: 1/4"=1'-Ø"

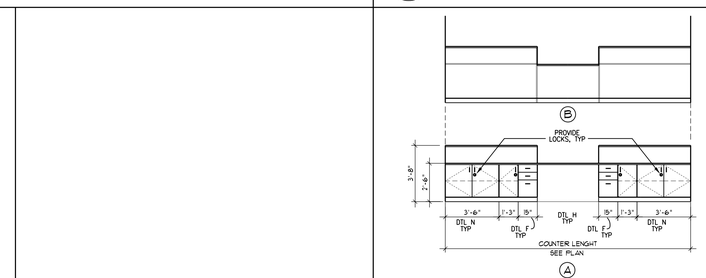


8 TYPICAL UPPER SHELVING
SCALE: 1/4" = 1'-Ø"

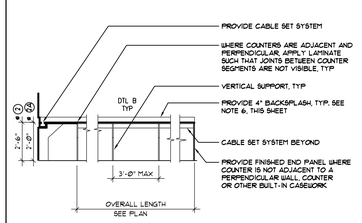
CONTRACTOR SHALL VERIFY SINK EXISTENCE IN BASE CABINETS. SEE CASEWORK PLANS FOR LOCATIONS. WHERE SINK OCCURS, USE FALSE DRAWER. COORD. W/ PLUMBING DRAWINGS.



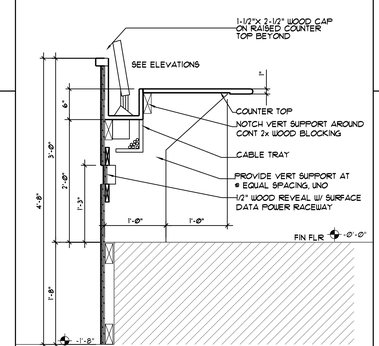
3 TYPICAL BASE CABINETS
SCALE: 1/4" = 1'-Ø"



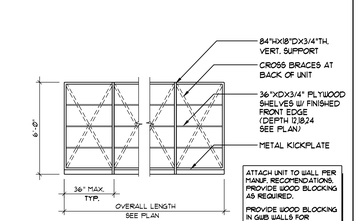
7 RECEPTION SECRETERIAL COUNTER
SCALE: 1/4" = 1'-Ø"



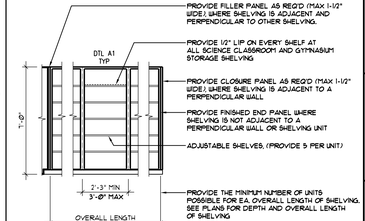
2, 2A TYP COMPUTER COUNTER
SCALE: 1/4" = 1'-Ø"



10 DIAS SECTION
SCALE: 1"=1'-Ø"



6 PRE-MANUF. SHELVING
SCALE: 1/4" = 1'-Ø"



1 TYP STORAGE SHELVING
SCALE: 1/4" = 1'-Ø"

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	Ø3-12-Ø7
DESIGN DEVELOPMENT	-	-	Ø6-Ø6-Ø7
DD OWNER REVIEW	-	-	Ø8-Ø8-Ø7
75% CONSTRUCTION DOCUMENTS	-	-	11-16-Ø7
100% PROGRESS SET	-	-	Ø1-18-Ø8
BID DOCUMENTS	-	-	Ø3-Ø3-Ø8

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PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

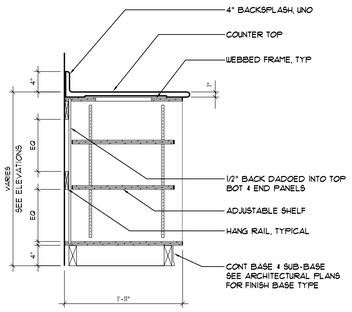
SHEET TITLE:
CASEWORK ELEVATIONS

SHEET NUMBER:
A8.1

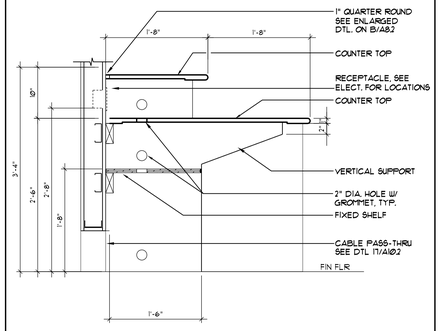
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\\fileserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A8 - CASEWORK ELEVATIONS & DETAILS\A8.2 CASEWORK DETAILS.dwg, 3/18/2008 10:16:38 AM, djackson

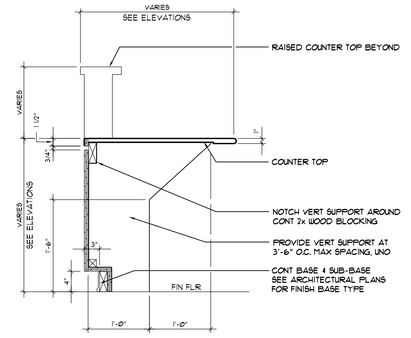
FUTURE DETAIL
SCALE: 1" = 1'-0"



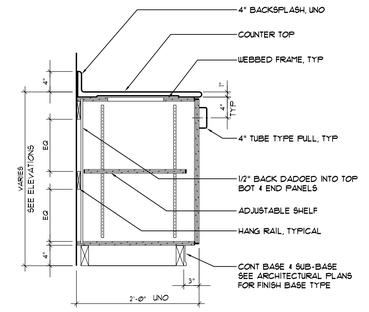
R BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"



M STUDIO CASEWORK DETAIL
SCALE: 1" = 1'-0"

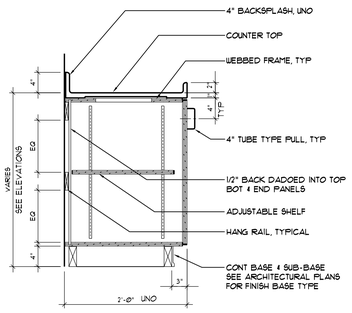


H KNEE SPACE @ H.C. ACCESS
SCALE: 1" = 1'-0"

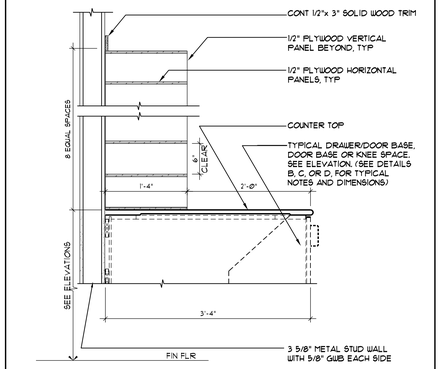


D BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"

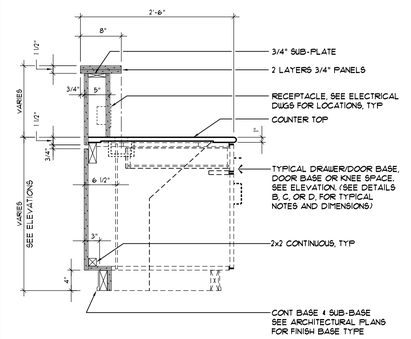
FUTURE DETAIL
SCALE: 1" = 1'-0"



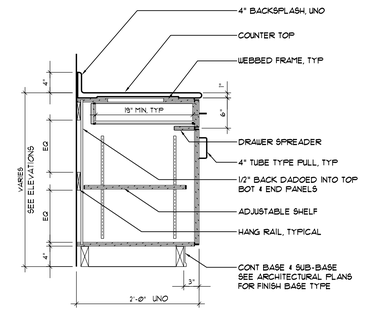
Q BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"



L MAIL BOXES
SCALE: 1" = 1'-0"



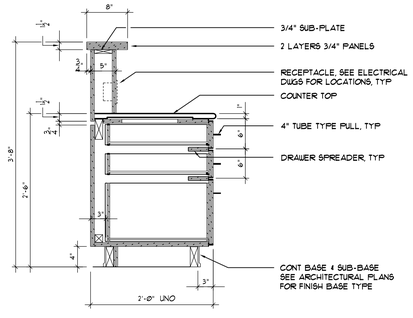
G RAISED COUNTER @ RECEPTION
SCALE: 1" = 1'-0"



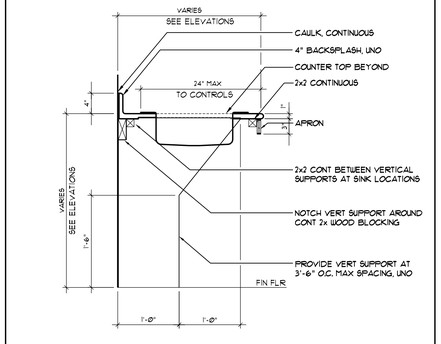
C BASE CAB W/DRAWER & DOOR
SCALE: 1" = 1'-0"

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.

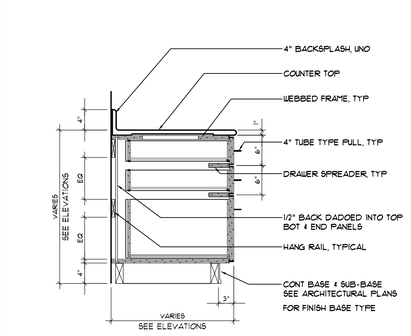
FUTURE DETAIL
SCALE: 1" = 1'-0"



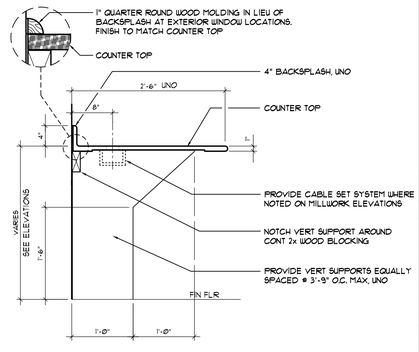
RECEPTION/SECRETERIAL BASE CABINET W/3 DRAWERS (P)
SCALE: 1" = 1'-0"



K SINK BASE W/KNEE SPACE
SCALE: 1" = 1'-0"

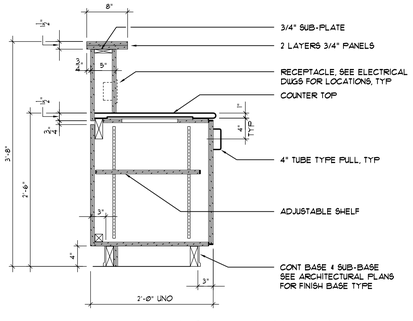


F BASE CABINET W/3 DRAWERS
SCALE: 1" = 1'-0"

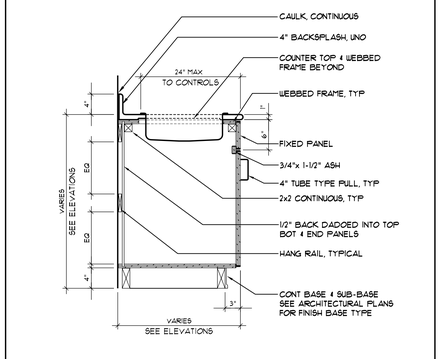


B COUNTER W/KNEE SPACE
SCALE: 1" = 1'-0"

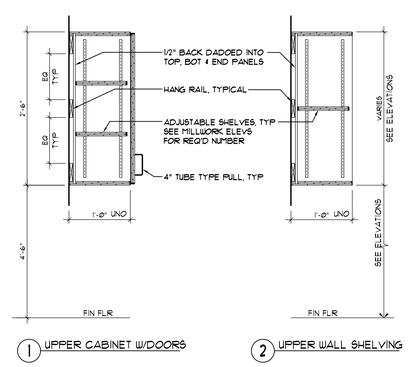
FUTURE DETAIL
SCALE: 1" = 1'-0"



RECEPTION/SECRETERIAL BASE CABINET WITH DOOR (N)
SCALE: 1" = 1'-0"

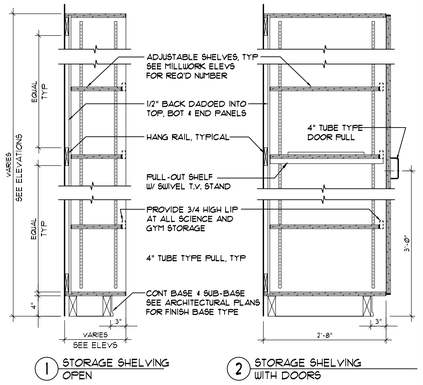


J SINK BASE CABINET W/DOOR
SCALE: 1" = 1'-0"



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	-	-	03-28-07
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:
CASEWORK DETAILS

SHEET NUMBER:
A8.2

DOOR SCHEDULE - LEVEL 1

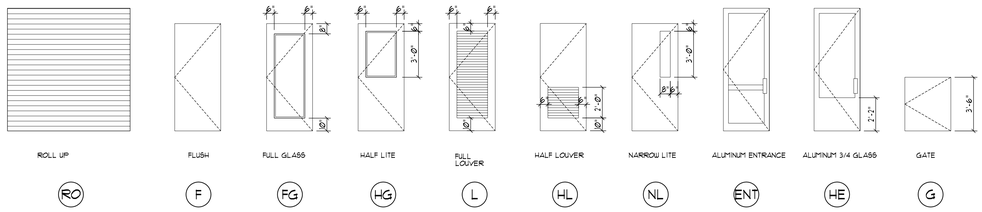
DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT	FTYPE	FMAT	HW-SET	HEAD	JAMB	SILL	REMARKS
1000	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1000A	FG	3-0	7-0	1-3/4	-	SCWD	5	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1000B	F	FIR 3-0	7-0	1-3/4	-	HM	2	HM	-	1/A9.4	1/A9.4	1/A9.3	-
1000C	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1000D	ENT	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1000E	ENT	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1001	G	3-0	3-6	1-3/4	-	WD	-	-	-	-	-	-	-
1002	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1003	HG	3-0	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	-	WD	-	-	-	-	-	-	-
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	-
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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	7-10	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 1/2	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/A9.4	2/A9.4	1/A9.3	-
1063A	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1063B	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1063C	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	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	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1064C	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1064D	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	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	6-10	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	1	HM	-	2/A9.4	2/A9.4	1/A9.3	-
1068B	RO	10-8	3-8	1	-	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/A9.1	5/A9.1	1/A9.1	-
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	-

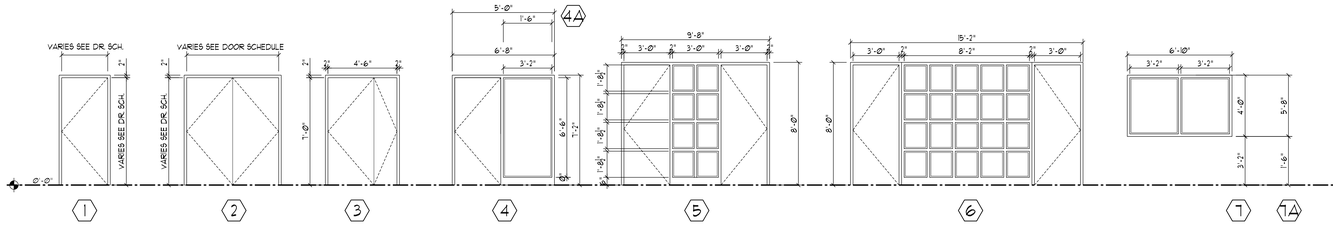
DOOR SCHEDULE - LEVEL 1 CONT.

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	-	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	-
1090	HG	3-0	7-0	1-3/4	-	SCWD	4	HM	-	4/A9.3	6/A9.3	1/A9.3	-
1096A	NL	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	-
1101B	ENT	FIR 3-0	7-10	1-3/4	-	ALUM	E	ALUM	-	12/A9.3	8/A9.3	1/A9.3	-
1106	HG	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	-
1087A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1098	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1103	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1101	HG	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1100A	F	2-6	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1114B	ENT	3-0	7-10	1-3/4	-	ALUM	M	ALUM	-	16/A9.3	14/A9.3	1/A9.3	-
1102	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1109	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.3	4/A9.3	1/A9.3	-
1113	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	-
1110	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	-
1104	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

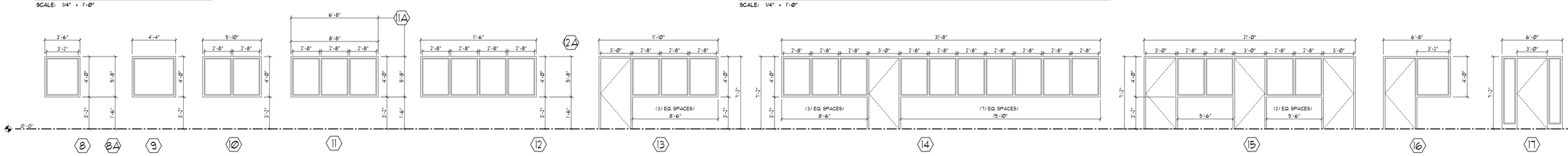
DR MARK	DTYPE	WIDTH	HEIGHT	THICK	RATING	DMAT	FTYPE	FMAT	HW-SET	HEAD	JAMB	SILL	REMARKS
2000A	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2000B	F	FIR 3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2000C	ENT	3-0	7-0	1-3/4	*	ALUM	1	ALUM	-	4/A9.1	4/A9.1	1/A9.1	-
2000D	ENT	3-0	7-0	1-3/4	*	ALUM	1	ALUM	-	4/A9.1	4/A9.1	1/A9.1	-
2000E	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2000F	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2000G	F	FIR 3-0	7-0	1-3/4	-	SCWD	2	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2001	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2001	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2003	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2004	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2005	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2006	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2007	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2008	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2009	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2010	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2012	FG	FIR 4-6	7-0	1-3/4	-	SCWD	3	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2012A	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2012B	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2013	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2014	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2015	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2016	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2017	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2017A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2017B	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2018	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2019	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2020	F	3-0	7-0	1-3/4	*	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2021	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2022	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2023	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2024	NL	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2025	F	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2026	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2027	FG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2028	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2028A	FG	3-0	7-0	1-3/4	-	SCWD	13	HM	-	4/A9.1	5/A9.1	1/A9.1	-
2029	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2029A	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2030	HG	3-0	7-0	1-3/4	-	SCWD	1	HM	-	4/A9.1	4/A9.1	1/A9.1	-
2031	HG	3-0	7-0





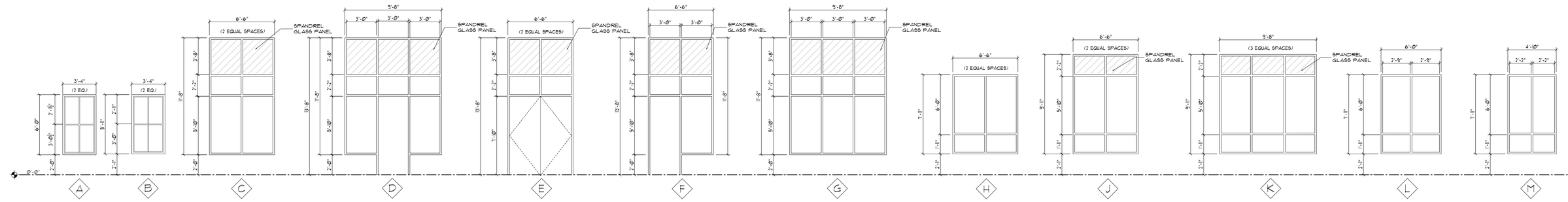
DOOR TYPE ELEVATIONS

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



HOLLOW METAL DOOR & WINDOW FRAME ELEVATIONS

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

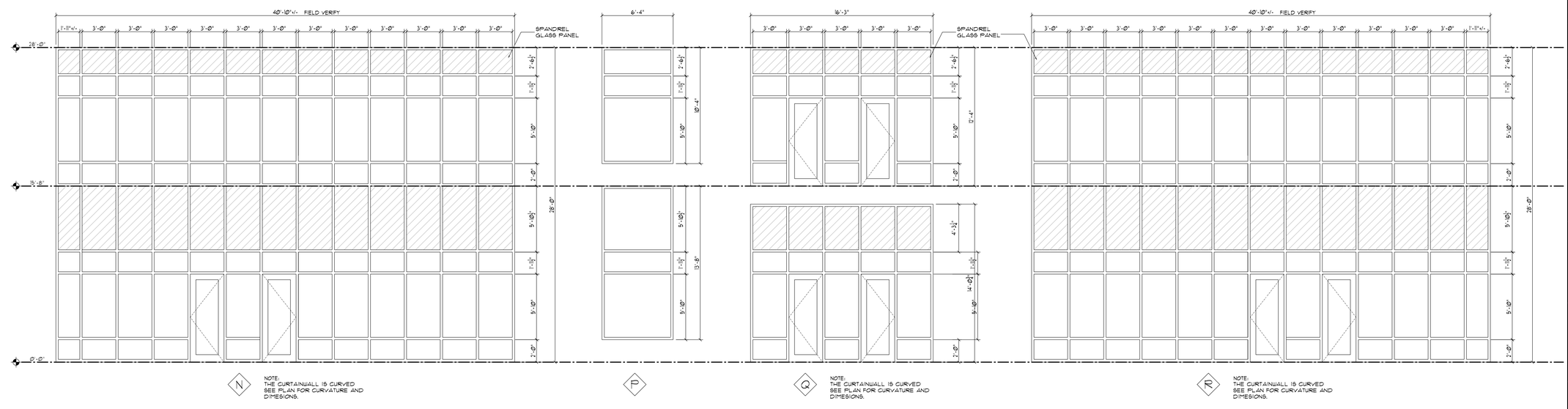


HOLLOW METAL DOOR & WINDOW FRAME ELEVATIONS

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

DOOR & WINDOW STOREFRONT FRAME ELEVATIONS

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



CURTAINWALL ELEVATIONS

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	-	-	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

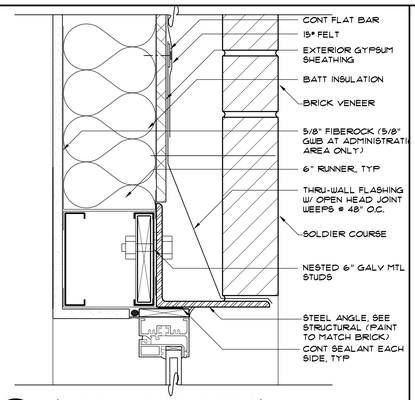
SHEET TITLE:

DOOR AND WINDOW ELEVATIONS

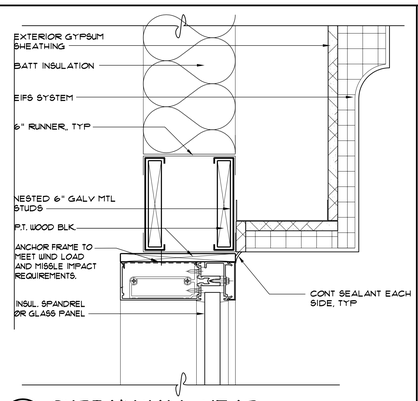
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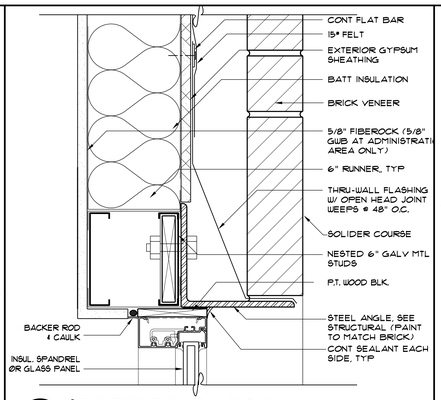
\\fltserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A9 - DOOR & WINDOW SCHEDULES ELEVATIONS & DETAILS\A9.2 DOOR AND WINDOW ELEVATIONS.dwg, 3/18/2008 10:13:23 AM, clackson



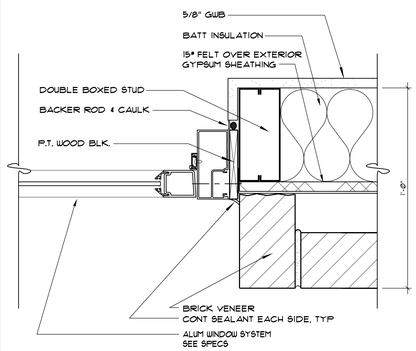
20 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0" A-DT-010



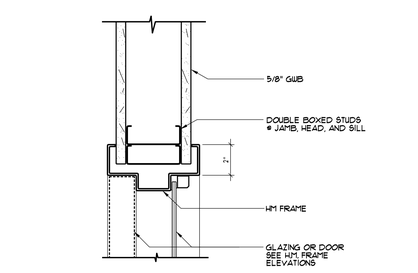
16 CURTAINWALL HEAD
SCALE: 3" = 1'-0" A-DT-098



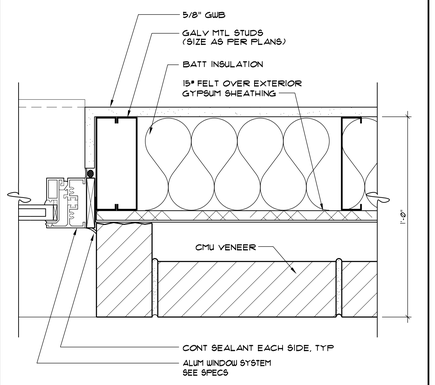
12 STOREFRONT HEAD
SCALE: 3" = 1'-0" A-DT-093



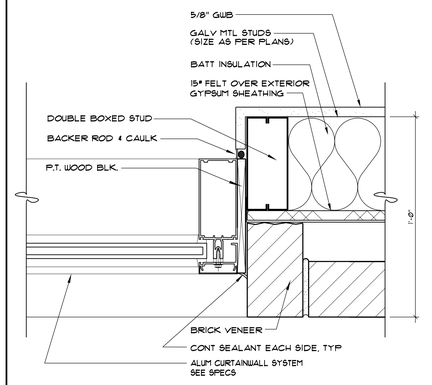
8 STOREFRONT JAMB
SCALE: 3" = 1'-0" A-DT-061



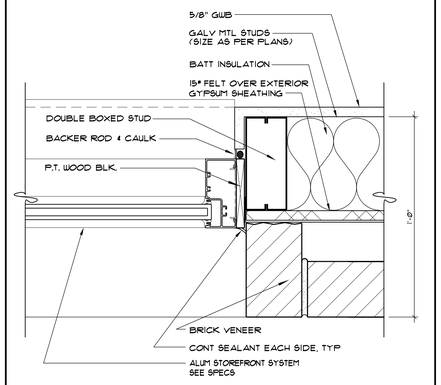
4 HEAD, JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-009



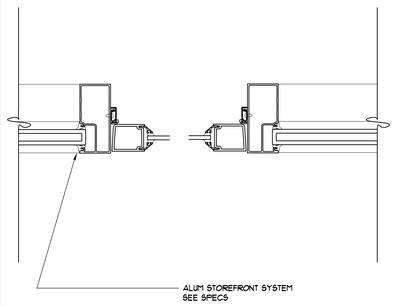
19 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-010



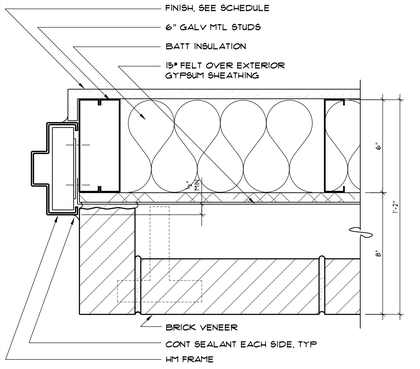
15 CURTAINWALL JAMB
SCALE: 3" = 1'-0" A-DT-096



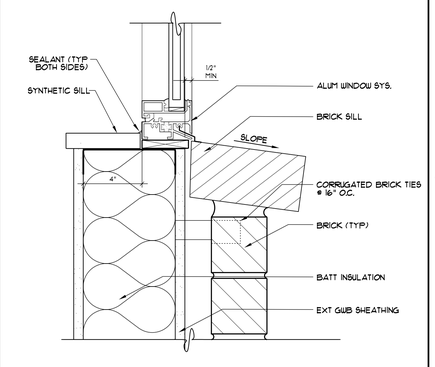
11 STOREFRONT JAMB
SCALE: 3" = 1'-0" A-DT-093



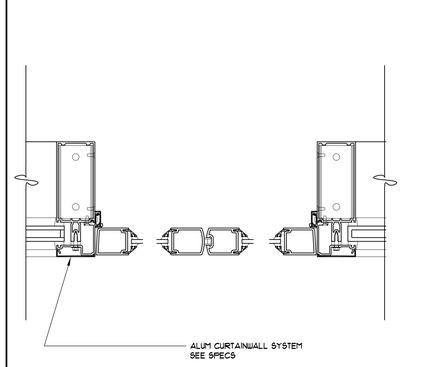
7 STOREFRONT JAMB
SCALE: 3" = 1'-0" A-DT-060



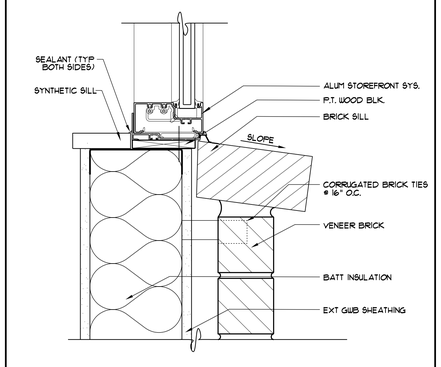
3 JAMB DETAIL
SCALE: 3" = 1'-0" A-DT-008



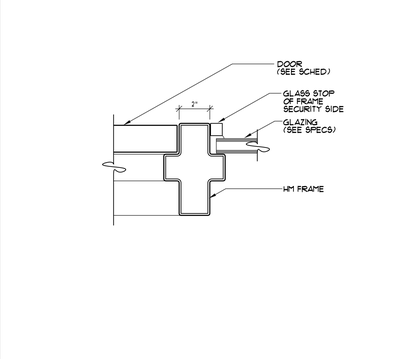
18 WINDOW SILL DETAIL
SCALE: 3" = 1'-0" A-DT-095



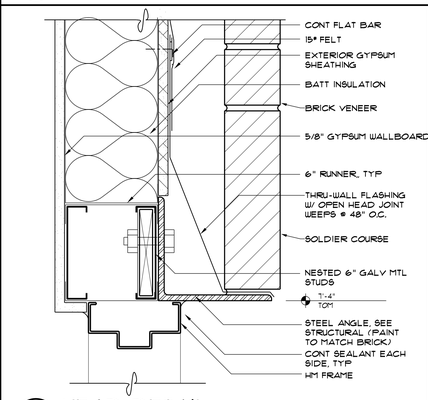
14 CURTAINWALL JAMB
SCALE: 3" = 1'-0" A-DT-097



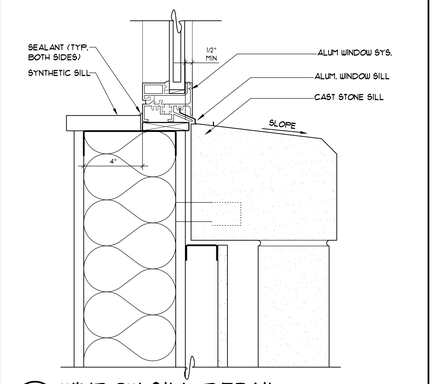
10 STOREFRONT SILL
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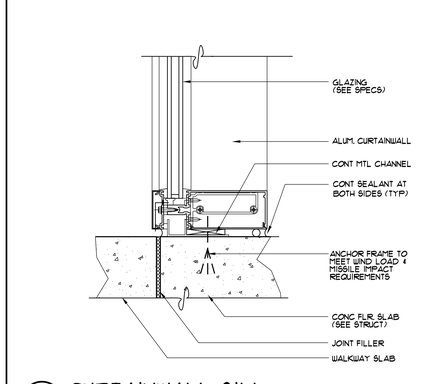
6 JAMB DETAIL (TRANSOM SIMILAR)
SCALE: 3" = 1'-0" A-DT-006



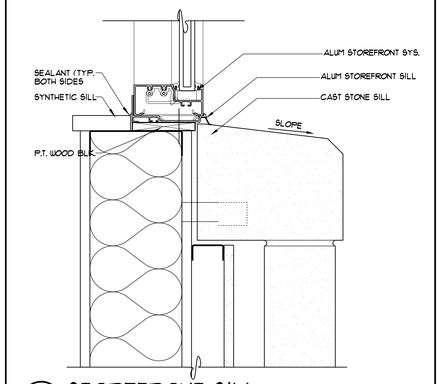
2 HEAD DETAIL
SCALE: 3"=1'-0" A-DT-001



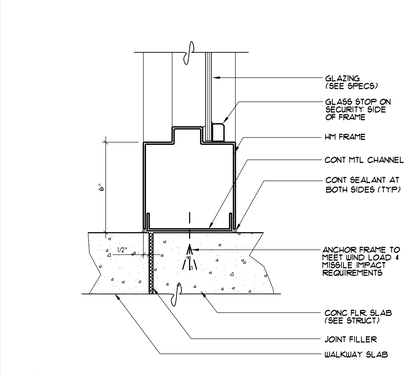
17 WINDOW SILL DETAIL
SCALE: 3" = 1'-0" A-DT-096



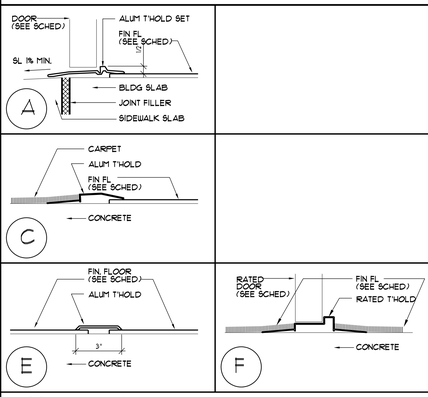
13 CURTAINWALL SILL
SCALE: 3" = 1'-0" A-DT-092



9 STOREFRONT SILL
SCALE: 3" = 1'-0" A-DT-058



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	-	-	03-10-07
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:

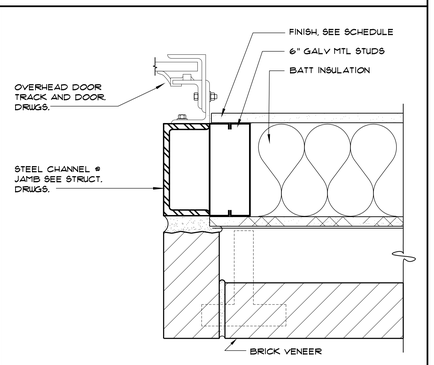
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

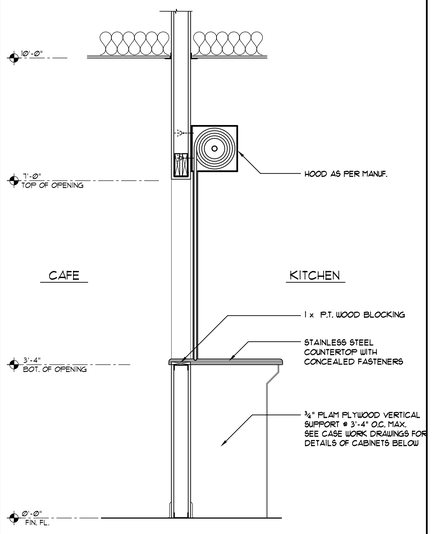
SHEET TITLE:
HEAD - JAMB - SILL - DETAILS

SHEET NUMBER:
A9.3

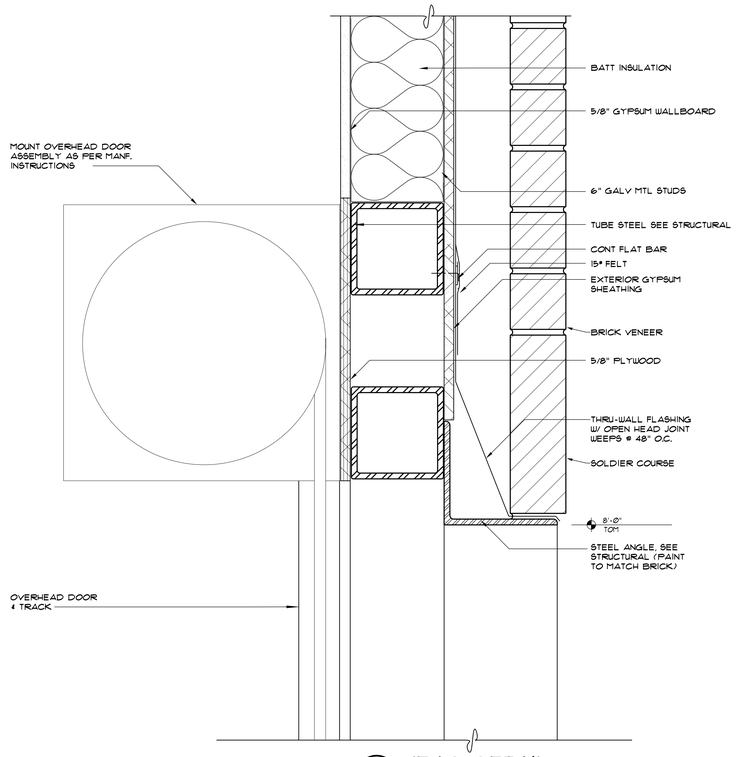
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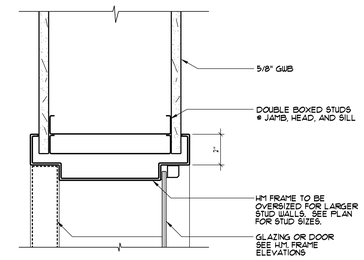
6 JAMB DETAIL
SCALE: 3" = 1'-0"
A-DT-08B



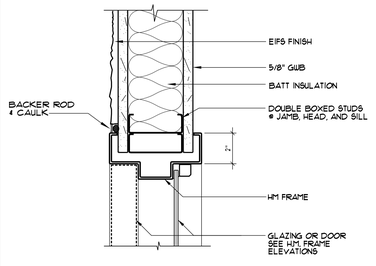
3 ROLL UP DOOR SECTION
SCALE: 3/4" = 1'-0"
A-DT-07LDUG



5 HEAD DETAIL
SCALE: 3"=1'-0"
A-DT-06S



2 HEAD, JAMB DETAIL
SCALE: 3" = 1'-0"
A-DT-06T



1 HEAD, JAMB DETAIL
SCALE: 3" = 1'-0"
A-DT-06B

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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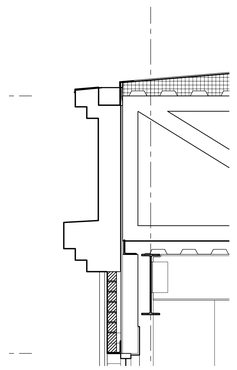
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

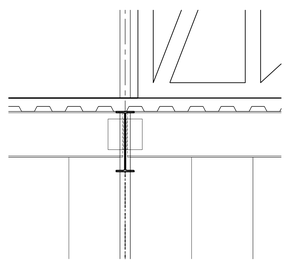
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DETAILS

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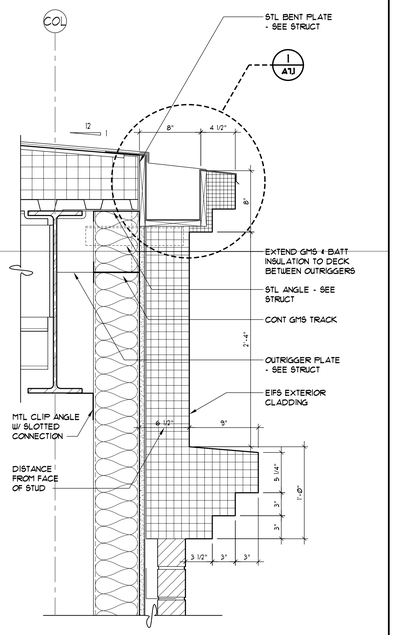
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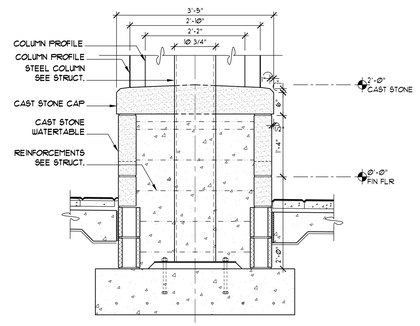
DETAIL
SCALE: 1/2" = 1'-0"
A-DT-002



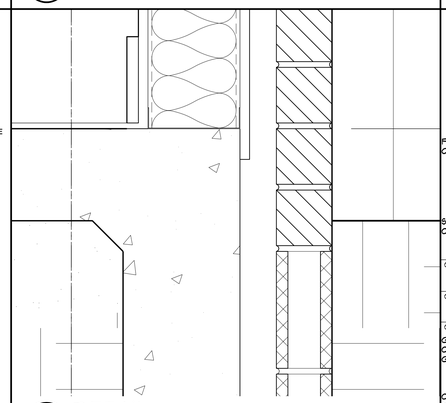
DETAIL
SCALE: 1/2" = 1'-0"
A-DT-001



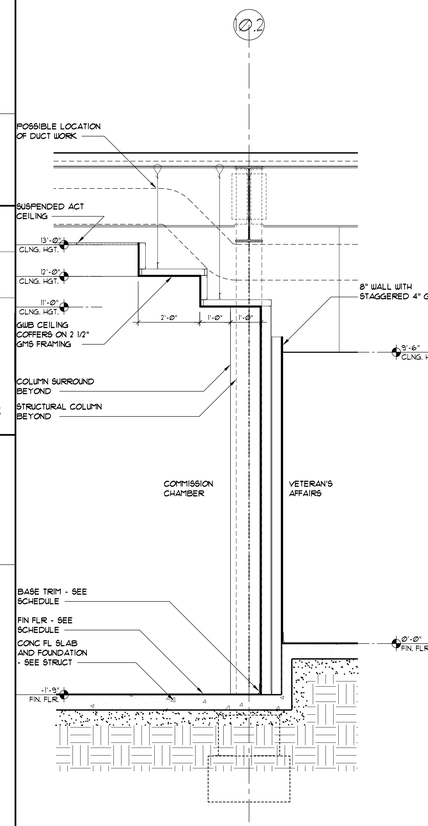
17 DETAIL
SCALE: 1 1/2" = 1'-0"
A-DT-026.DWG

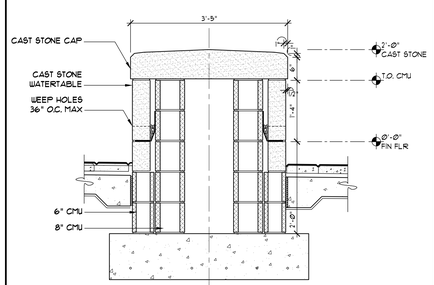


SEAT WALL / EXT. ROTUNDA COL.
SCALE: 3/4" = 1'-0"
A-DT-012

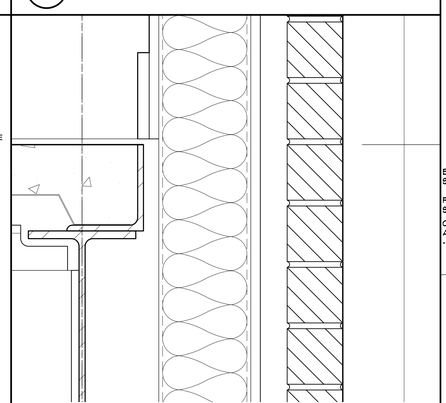


DETAIL
SCALE: 3" = 1'-0"
A-DT-020





SEAT WALL
SCALE: 3/4" = 1'-0"
A-DT-010



DETAIL
SCALE: 1/2" = 1'-0"
A-DT-013

1 PARTIAL WALL SECTION
SCALE: 1/2" = 1'-0"
A-SC01

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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CONSULTANTS:

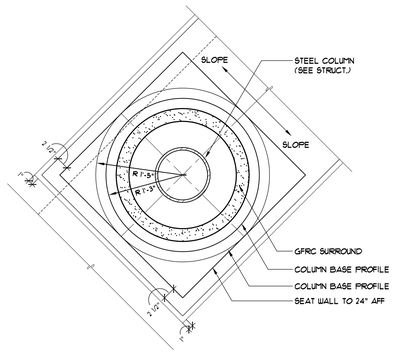
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

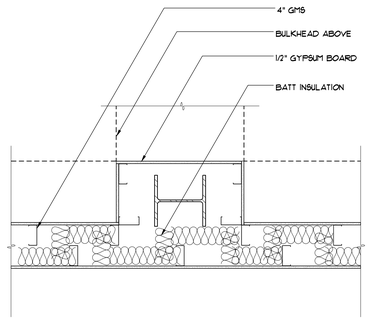
SHEET TITLE:
DETAILS

SHEET NUMBER:
A10.1

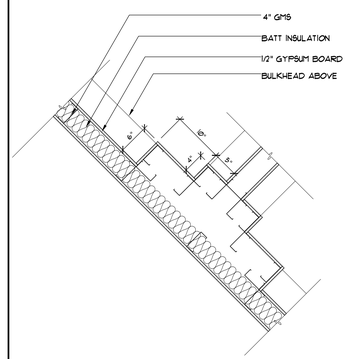
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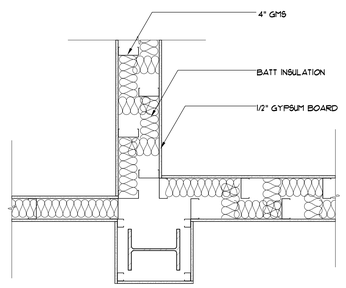
C3 ENTRY COLUMN
SCALE: 1" = 1'-0" A-DT-048



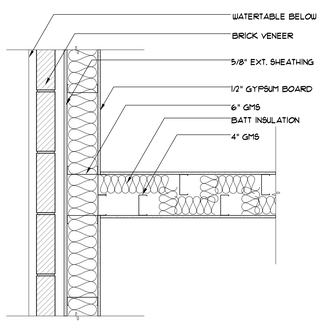
C2 ADMIN COLUMN SURROUND
SCALE: 1" = 1'-0" A-DT-041



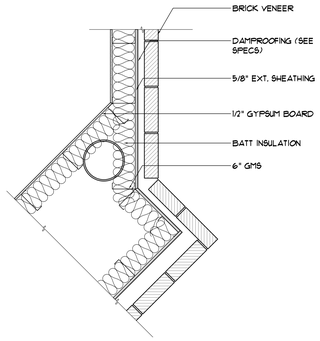
C1 ADMIN VESTIBULE
SCALE: 1" = 1'-0" A-DT-046



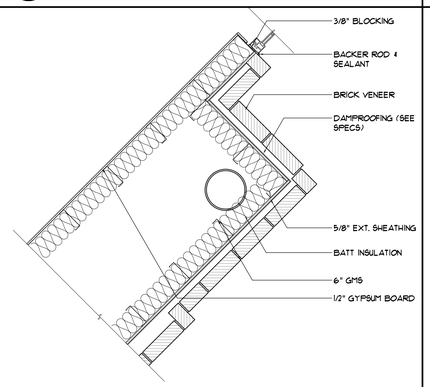
B5 SUITE SEPARATION WALL
SCALE: 1" = 1'-0" A-DT-045



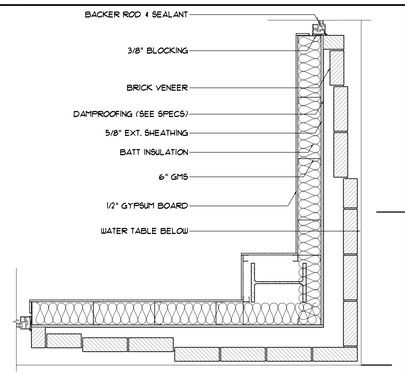
B4 SUITE SEPARATION WALL (TYP)
SCALE: 1" = 1'-0" A-DT-044



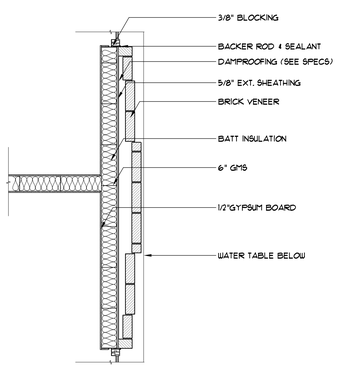
B3 WING WALL DETAIL
SCALE: 3/4" = 1'-0" A-DT-031



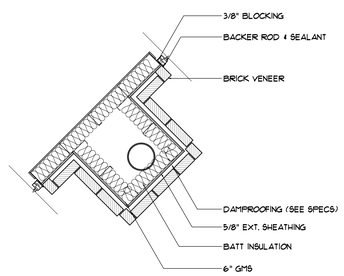
B2 WING WALL DETAIL
SCALE: 3/4" = 1'-0" A-DT-024



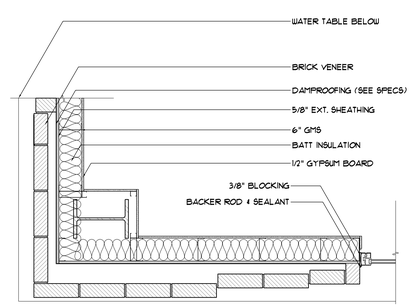
B1 EXT. CORNER DETAIL
SCALE: 3/4" = 1'-0" A-DT-024



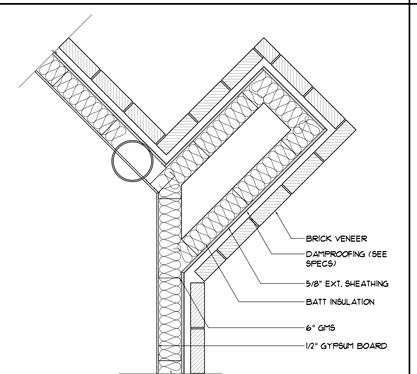
A5 TYP. EXTERIOR
SCALE: 1/2" = 1'-0" A-DT-018



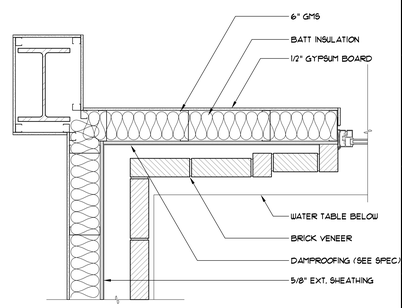
A4 ----------
SCALE: 1/2" = 1'-0" A-DT-011



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" = 1'-0" A-DT-014

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-28-07
DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-06-07
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:
PLAN DETAILS

SHEET NUMBER:
A11.1

\\tlfileserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A11 - DETAILS PLAN\A11.1 PLAN DETAILS.dwg, 3/18/2008 8:56:29 AM, cjackson

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK PROVIDED FOR THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NFPA-70), EDITION 2005, 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
- BATTERY POWERED EXIT LIGHT
- (C) 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.
- $4 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	NIC	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.
- #1 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
- #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, C/T/D 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. ECOORDINATE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN)
- IG #2 ISOLATED EQUIPMENT GROUND CONDUCTOR
- TELEPHONE BACKBOARD WITH #6 CU. GROUND (SIZE AS NOTED)
- EF EXHAUST FAN
- TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT CONDUIT TO ABOVE CEILING, MOUNT, 60" A.F.F. T.V. 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

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.

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.

NOTE: SEE ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR EXACT CEILING LAYOUT.
SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND COMMUNICATIONS/AUDIOVISUAL 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).
CONDUITS SHALL NOT BE INSTALLED HORIZONTALLY IN COMPOSITE SLABS - SEE STRUCTURAL DRAWINGS - SUBMIT ALL PROPOSED PENETRATION DETAILS TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONDUIT INSTALLATION - TYPICAL

FIXTURE SCHEDULE

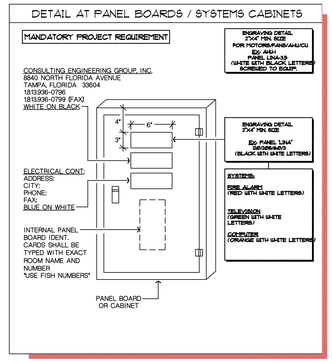
MARK/MANUFACTURER CATALOG NUMBER/VOLTAGE/LAMP/MOUNTING - REMARKS

A LIGHTOLIER / #A1B(AS REQD.)C54WH / 277V /(1) 54W T5 HO 3000k / AIRCRAFT CABLE LENGTH AS SPECIFIED BY ARCHITECT
A1 LIGHTOLIER / #A1B(AS REQD.)C54WH / 277V /(1) 28W T5 HO 3000k / AIRCRAFT CABLE LENGTH AS SPECIFIED BY ARCHITECT
B LIGHTOLIER / #MBS2GPW154277 / 277V / (1) 54W T5 HO 3000k / LAY-IN
B1 LIGHTOLIER / #MBS2GPW228277 / 277V / (2) 28W T5 3000k / LAY-IN
B2 LIGHTOLIER / #MBS2GPW128277 / 277V / (1) 28W T5 3000k / LAY-IN
C LIGHTOLIER / #8022CCLW/S7142BUF / 277V / 42W TRIPLE TUBE 3000k / FLUSH
C1 LIGHTOLIER / #1127/1100DAICM / 120V / (1) 90W PAR38F - 0 AIMING ANGLE / FLUSH
C2(30) LIGHTOLIER / #1127/1100DAICM / 120V / (1) 90W PAR38F - 30 AIMING ANGLE / FLUSH
C3 LIGHTOLIER / #1127/1100DAICM / 120V / (1) 45W PAR38F - 0 AIMING ANGLE / FLUSH
C30 LIGHTOLIER / #1127/1100DAICM / 120V / (1) 45W PAR38F - 30 AIMING ANGLE / FLUSH
D LIGHTOLIER / #SPS2GFSV232UNVHIGLR / 120V / (2) 32W T8 3000k / LAY-IN
D1 LIGHTOLIER / #CBS232UNVHIGLR / 277V / (2) 32W T8 3000k / CEILING SURFACE
D2 LIGHTOLIER / #SPS2FFSVA332UNVH4GLR / 277V / (3) 32W T8 3000k / FLANGE
E LIGHTOLIER / #MBS2GPW224277 / 277V / (2) 24W T5 HO 3000k / LAY-IN
E1 LIGHTOLIER / #MBS2GPW214277 / 277V / (2) 14W T5 3000k / LAY-IN
G LIGHTOLIER / #KW4S232UNVHIGLR / 277V/ (2) 32W T8 3000k / CEILING SURFACE
H LIGHTOLIER / #C3E28WWCDWC925MHUF2 / 277V / (1) 250W CERAMIC MH / CEILING FLUSH
J LIGHTOLIER / #XP2GV126UUNVHI / 277V / (2) 32W T8 U 3000k / LAY-IN
CH LAM / # LDL29339BNRB24AB277ALB / 277V / (3) 39W BX LAMPS PER ASSEMBLY 3000k / CEILING SURFACE 24" LENGTH
CH1 LAM / # LDL41655BNRB24AB277ALB / 277V / (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 / #AL3M400HS277F2HSSHAL3BLK / 480V 1-PHASE / (1) 400W MH / CONCRETE POLE 30' AFG (SUBMIT POLE FOR APPROVAL)
SA2 WIDELITE / #AL3M400HS277F2HSSHAL3BLK / 480V 1-PHASE / (2) 400W MH / CONCRETE POLE 30' AFG (SUBMIT POLE FOR APPROVAL)
SB EXCELINE / #GXMW175MALWHWBLK / 277V / (1) 175 MH / WALL MOUNTED - VERIFY HEIGHT WITH ARCHITECT

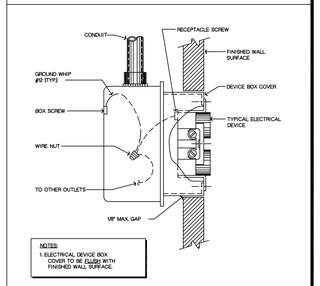
NOTE: VERIFY ALL FIXTURE MOUNTING HEIGHTS AND LOCATION w/ARCHITECT & ARCHITECTURAL REFLECTED CEILING DRAWINGS PRIOR TO INSTALLATION
ALL FIXTURES SHALL HAVE ELECTRONIC BALLAST & FUSING. FIXTURES DESIGNATED 'DIM' SHALL HAVE DIMMING BALLAST AS SPECIFIED DIMMING SYSTEM MANUFACTURER

NSNL - NON-SWITCHED NIGHT LIGHT

DETAIL AT PANEL BOARDS / SYSTEMS CABINETS



DEVICE RING INSTALLATION



DRAWING INDEX

E1.0	LEGEND/NOTES/DETAILS/SPECIFICATIONS
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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
E3.2C	SECOND FLOOR ZONE C LIGHTING
E3.3A	THIRD FLOOR ZONE A LIGHTING
E4.1A	FIRST FLOOR ZONE A SYSTEMS
E4.1B	FIRST FLOOR ZONE B SYSTEMS
E4.1C	FIRST FLOOR ZONE C SYSTEMS
E4.2A	SECOND FLOOR ZONE A SYSTEMS
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
E7.3	ELECTRICAL SCHEDULES & DETAILS
E7.4	ELECTRICAL SCHEDULES & DETAILS
E8.0	MECHANICAL SCHEDULES & DETAILS

LEGEND / NOTES / DETAILS / SPECIFICATIONS

SCALE: NONE

STATE OF FLORIDA PROFESSIONAL ENGINEER — BRIAN P. BARRETT — No. 61666
SEAL SHOWN IS VALID ONLY WHEN IT HAS AN ORIGINAL IMPRINT AND SIGNATURE

REVISIONS:

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	08-06-07
75% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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Commission Number: 06318

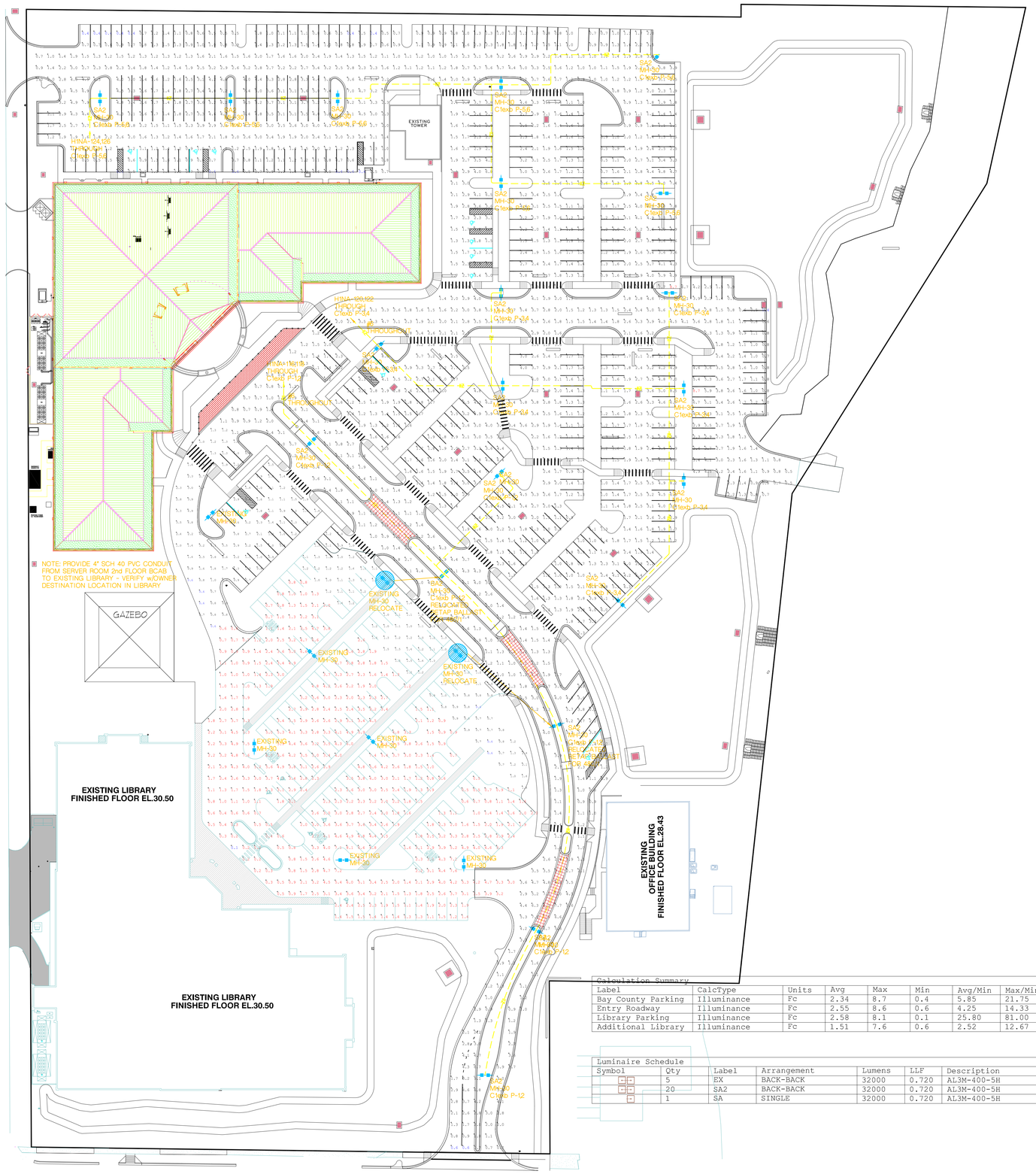
CONSULTANTS:
CONSULTING ENGINEERING GROUP INC. INTERNATIONAL TAMPA, FLORIDA
8840 NORTH FLORIDA AVE
TAMPA, FLORIDA 33604
813.936.0796
FAX 813.935.9021
EMAIL CEGITAMPA@AOL.COM
CEGI PROJECT NO. 129

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ELECTRICAL LEGEND

SHEET NUMBER:
E1.0


EXISTING TOWER
GAZEBO
EXISTING LIBRARY
FINISHED FLOOR EL.30.50
EXISTING LIBRARY
FINISHED FLOOR EL.30.50
EXISTING
OFFICE BUILDING
FINISHED FLOOR EL.28.43
NOTE: PROVIDE 4" SCH 40 PVC CONDUIT FROM SERVER ROOM 2nd FLOOR BCAB TO EXISTING LIBRARY - VERIFY w/OWNER DESTINATION LOCATION IN LIBRARY
EXISTING MH-30 RELOCATE
EXISTING MH-30
EXISTING MH-30 RELOCATE
EXISTING MH-30
EXISTING MH-30
EXISTING MH-30
EXISTING MH-30
SA2 MH-30 C1exb P-56
SA2 MH-30 C1exb P-54
SA2 MH-30 C1exb P-34
SA2 MH-30 C1exb P-12
HNA-120,122 THROUGH C1exb P-34
HNA-116,118 THROUGH C1exb P-12
HNA-104,106 THROUGH C1exb P-34
SA2 MH-30 C1exb P-56
SA2 MH-30 C1exb P-54
SA2 MH-30 C1exb P-34
SA2 MH-30 C1exb P-12
SA2 MH-30 C1exb P-56
SA2 MH-30 C1exb P-54
SA2 MH-30 C1exb P-34
SA2 MH-30 C1exb P-12
SA2 MH-30 C1exb P-12
SA2 MH-30 C1exb P-12

MPP - HUBBELL MARINA POWER PEDESTAL w/(1) 120V, 20A, RECEPTACLE, (1) 240V, 20A RECEPTACLE, (1) 20A, 1P, GFCB, & (1) 20A, 2P, GFCB, NEMA 3R CONSTRUCTION. MOUNT PEDESTAL ON 6" REINFORCED CONCRETE SLAB. SLAB SHALL BE 1' LARGER THAN PEDESTAL BASE. FIELD VERIFY.

PROVIDE (2) 20/1 GF IN POWER PEDESTAL SEE COMM DWGS FOR PEDESTAL DETAILS - TYP.

NOTE: COORDINATE ALL RECEPTACLES W/ COMMUNICATIONS/AUDIVISUAL SUPPLIERS AND DRAWINGS - TYPICAL

FACP & VOICE COMMAND PANELS

NOTE: 'AD' DESIGNATED DOOR ARE AUTOMATIC OPEN - VERIFY EXACT REQUIREMENTS WITH DOOR SUPPLIER TYPICAL

ELEVATOR TRAIL CABLE - VERIFY REQMTS. w/ ELEVATOR SUPPLIER NOTE: VERIFY PIT ARRANGEMENT W/ ELEVATOR EQUIPMENT SUPPLIER

DATA/POWER FLOOR BOX - PROVIDE (1) 20A 120V RECEPTACEL REFER TO COMMUNICATIONS/AUDIOVISUAL DRAWINGS FOR BOX SPECIFICATIONS - PROVIDE COMMUNICATIONS - SECTIONS - SEE COMMUNICATIONS/ AUDIOVISUAL DRAWINGS - VERIFY EXACT LOCATION W/OWNER PRIOR TO ROUGH IN USING DIMENSIONED DRAWINGS PROVIDED BY OWNER - TYPICAL 1R/D/T DESIGNATION 2R/D/T DESIGNATION SAME AS 1R/D/T DESIGNATION EXCEPT PROVIDE (2) 20A 120V RECEPTACLES - TYPICAL 1R DESIGNATION SAME AS 1R/D/T DESIGNATION EXCEPT NO COMMUNICATIONS/AUDIOVISUAL - TYPICAL

NOTE: ALL NEUTRAL CONDUCTORS IN RECEPTACLE CIRCUITS SHALL BE #10 - TYPICAL

NOTE: PROVIDE (3) 1" SCH 40 PVC CONDUITS FROM EACH FUTURE WATER FEATURE TO PANEL L1NB - VERIFY CONDUIT PLACEMENT W/ARCHITECT

FIRST FLOOR PLAN - POWER AREA A

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

KEY PLAN

NORTH

SCALE: N.T.S.

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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PHONE: (850) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

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EMAIL: CEGMEP@AOL.COM
FAX: 813.935.7771
COA # EB0005712

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

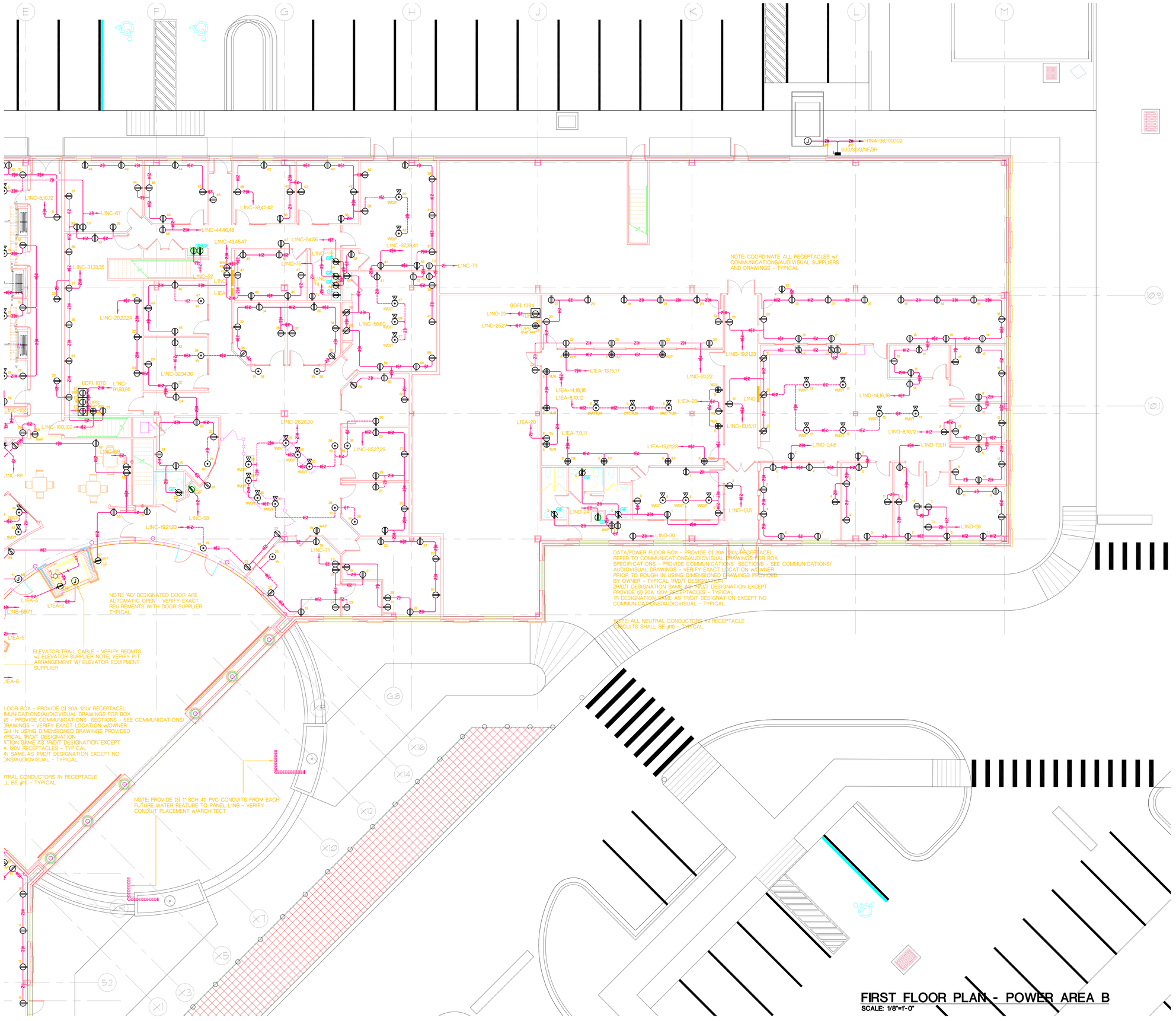
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A ELECTRICAL POWER

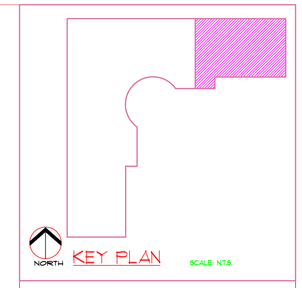
SHEET NUMBER:

E2.1A



FIRST FLOOR PLAN - POWER AREA B

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



SEAL SIGNATURE IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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Commission Number: 06318

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813.930.2796
EMAIL: CEGI.TAMPA@VERIZON.NET
EMAIL: CEGI@CEGIGROUP.COM
CGA # EB-0007721

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

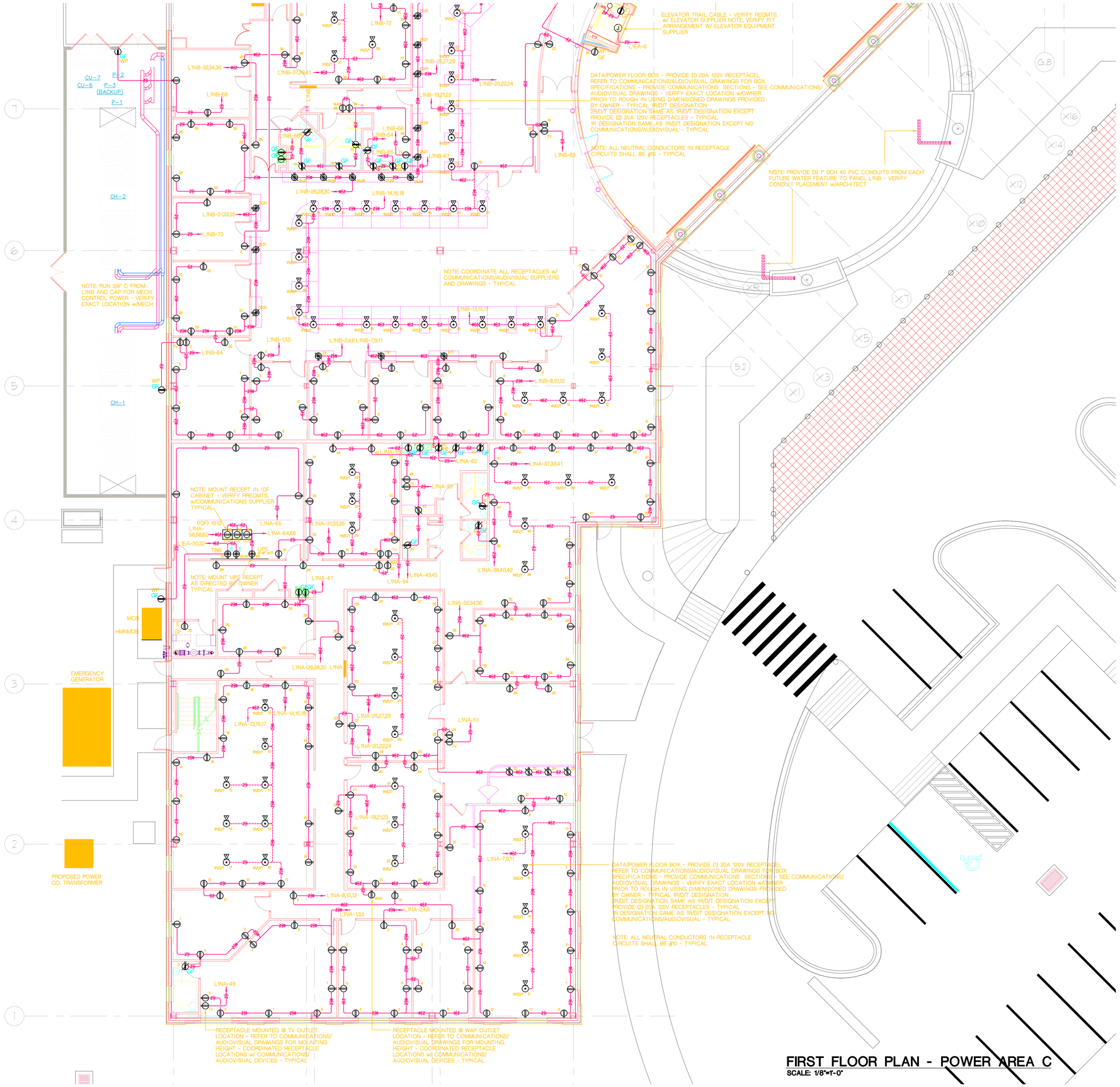
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B ELECTRICAL POWER

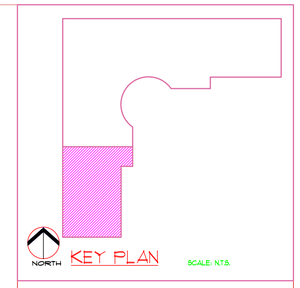
SHEET NUMBER:

E2.1B



FIRST FLOOR PLAN - POWER AREA C

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



REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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Commission Number: 06318

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EMAIL: CEGITAMPA@AOL.COM
WEB: CEGITAMPA.COM
CGA # EB0002722
CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

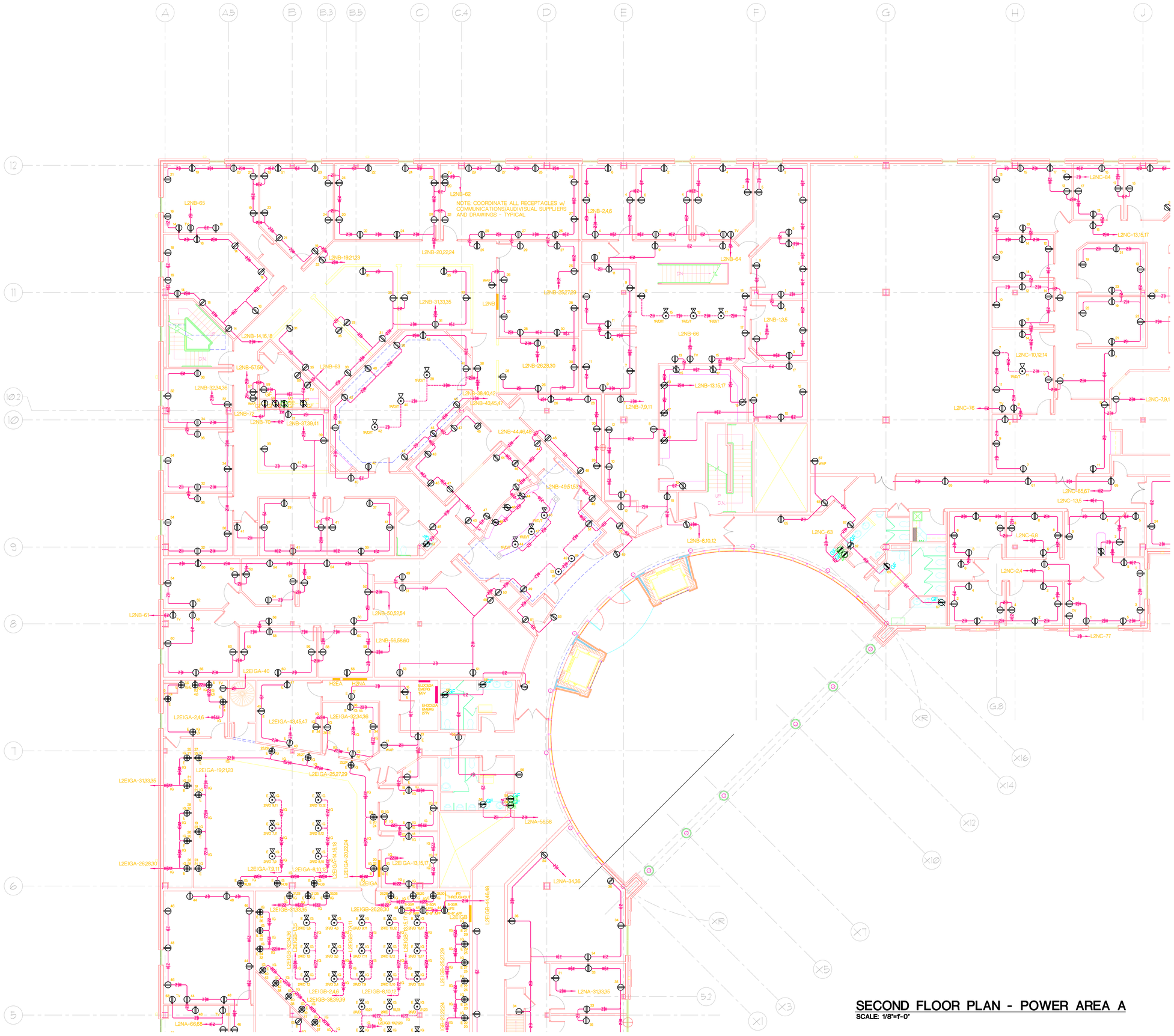
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C
ELECTRICAL POWER

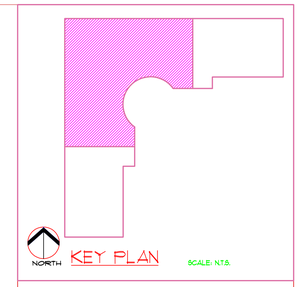
SHEET NUMBER:

E2.1C



SECOND FLOOR PLAN - POWER AREA A

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





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REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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Commission Number: 06318

CONSULTANTS:

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5840 NORTH FLORIDA AVE.
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813.930.3796
FAX: 813.930.3797
EMAIL: CEG@TAMPABAY.RR.COM
EMAIL: CEG@CEGGROUP.COM
CEGI # EB 8007722

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

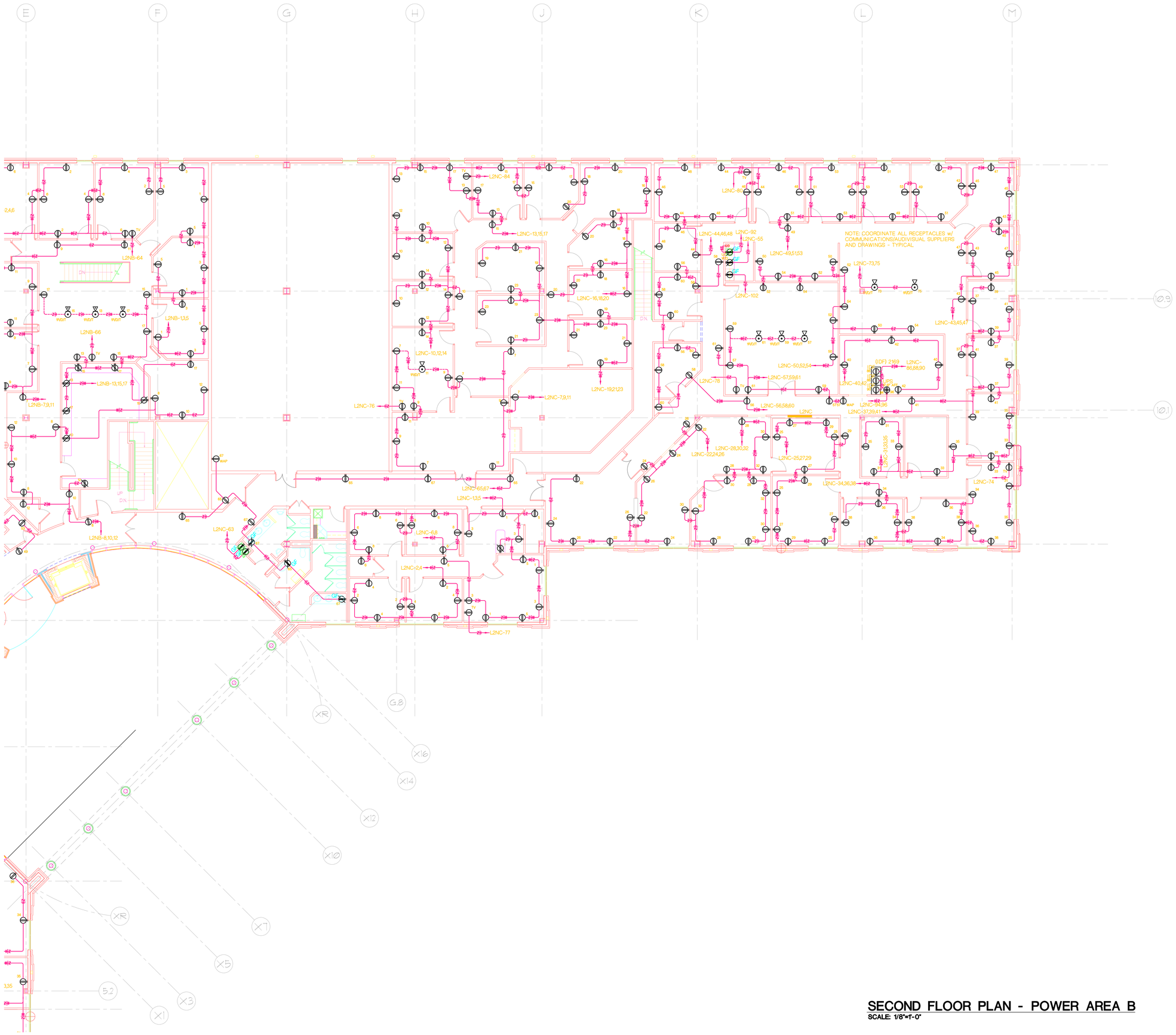
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE A ELECTRICAL POWER

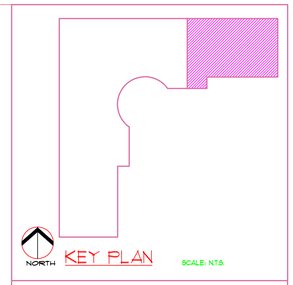
SHEET NUMBER:

E2.2A



SECOND FLOOR PLAN - POWER AREA B

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



PANAMA BENTON LICENSED No. 69888 STATE OF FLORIDA PROFESSIONAL ENGINEER
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REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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EMAIL: CEGTAMPA@AOL.COM
WEB: CEGTAMPA.COM
CGA # EB0003712

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

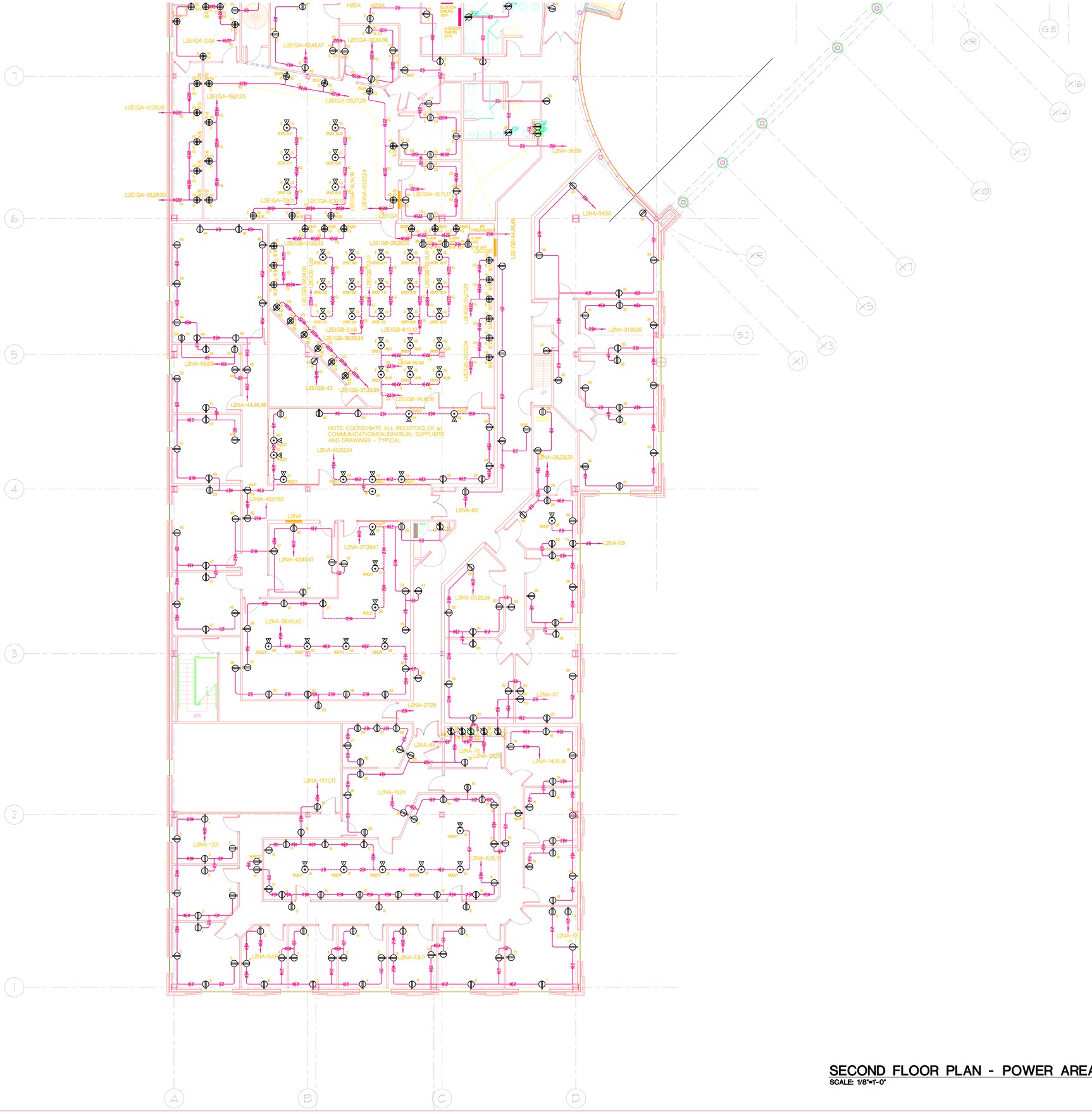
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B ELECTRICAL POWER

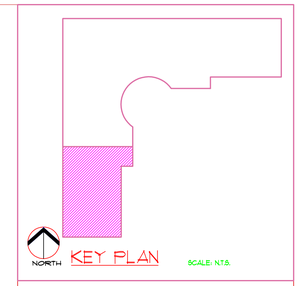
SHEET NUMBER:

E2.2B



SECOND FLOOR PLAN - POWER AREA C

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





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REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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813.930.2296
EMAIL: CEGI@TAMPABAY.RR.COM
EMAIL: CEGI@MSN.COM
CGA # EB 0007722

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

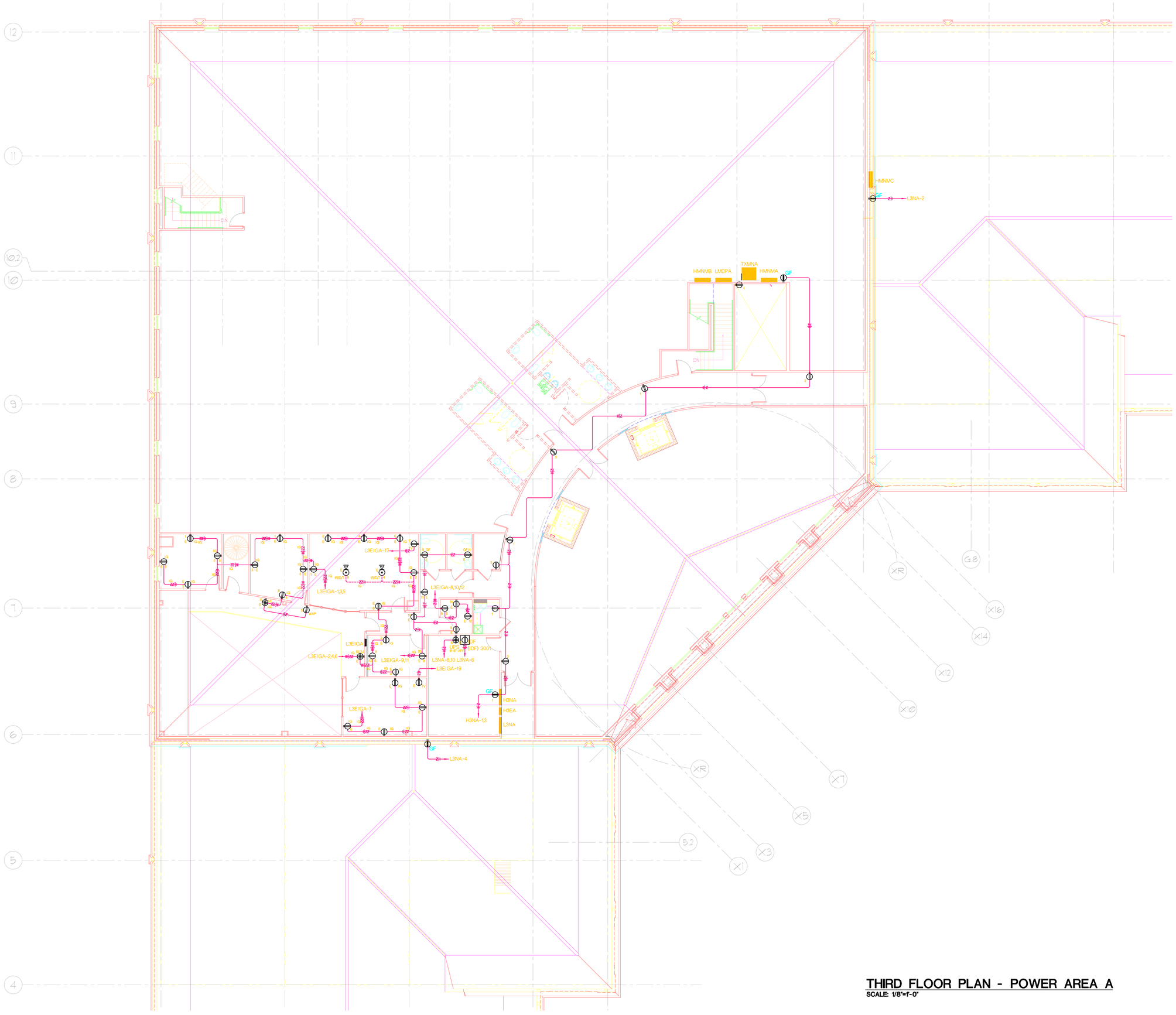
PANAMA CITY, FLORIDA

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SECOND FLOOR ZONE C
ELECTRICAL POWER

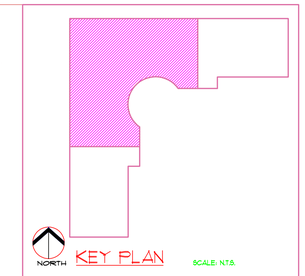
SHEET NUMBER:

E2.2C



THIRD FLOOR PLAN - POWER AREA A

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





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REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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

CONSULTANTS:

CONSULTING ENGINEERING GROUP INC.
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813.936.0296
EMAIL: CEGITAMPA@YAHOO.COM
EMAIL: CEGITAMPA@AOL.COM
COA # EB 0002722

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

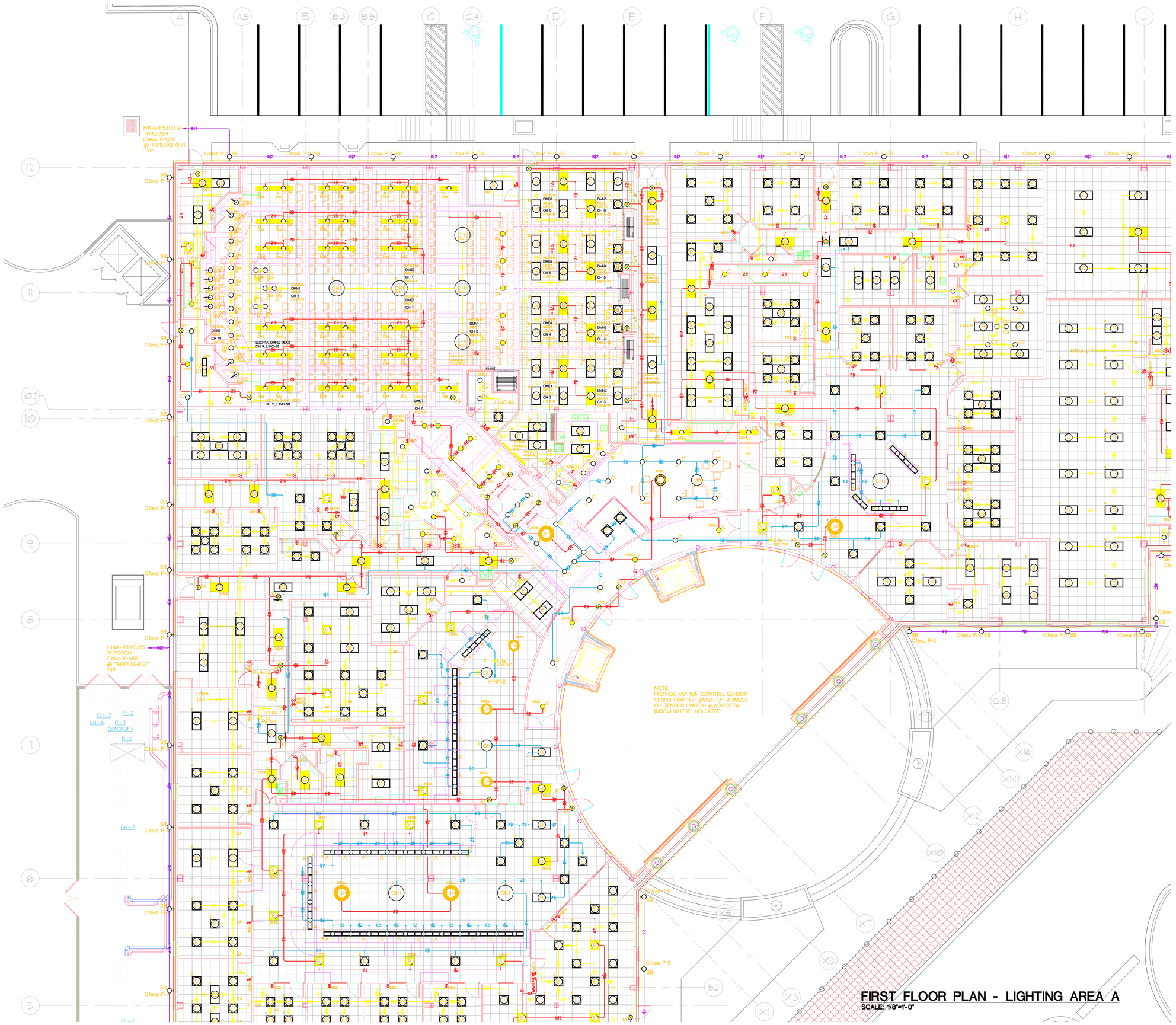
PANAMA CITY, FLORIDA

SHEET TITLE:

THIRD FLOOR ZONE A
ELECTRICAL POWER

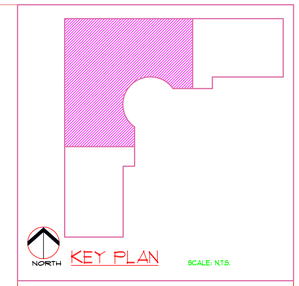
SHEET NUMBER:

E2.3A



FIRST FLOOR PLAN - LIGHTING AREA A

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



KEY PLAN

SCALE: N.T.S.

DIMMER EQUIPMENT SPECIFICATIONS:

HDCE1A – LYTEMODE CABINET #LS-LM-80-277, 480Y/277V, 3-PHASE INPUT WITH DIMMER MODULES AS INDICATED. EMERGENCY INPUT.

HDCN1A – LYTEMODE CABINET #LS-LM-80-277, 480Y/277V, 3-PHASE INPUT WITH DIMMER MODULES AS INDICATED. NORMAL INPUT.

LDCN1A – LYTEMODE CABINET #LS-LM-4040, 208/120V, 1-PHASE INPUT WITH DIMMER MODULES AS INDICATED. NORMAL INPUT.

LDCN1A – LYTEMODE CABINET #LS-LM-4040, 208/120V, 1-PHASE INPUT WITH DIMMER MODULES AS INDICATED. NORMAL INPUT.

MDC1 - LYTEMODE SYSTEM MASTER STATION #LS-CL-16SES

LDC1A,B,C,D – LYTEMODE #LSCL2RESRL

MANUFACTURE SHALL PROVIDE COMPLETE SHOP DRAWINGS WIRING DIAGRAMS, INSTALLATION AND OPERATING INSTRUCTIONS

NOTE: SYSTEM SHALL PROVIDE FULL LIGHT OUTPUT DURING FIRE ALARM - VERIFY REQUIREMENTS w/FIRE ALARM SYSTEM SUPPLIER

BRIAN BENTLEY LICENSE No. 69866 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVISIONS:

DESCRIPTION	DRAWN	CHECKED	DATE

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SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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Commission Number: 06318

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EMAIL: CEGTAMPA@AOL.COM
FAX: 813.935.2717
CEGA EB0003722

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

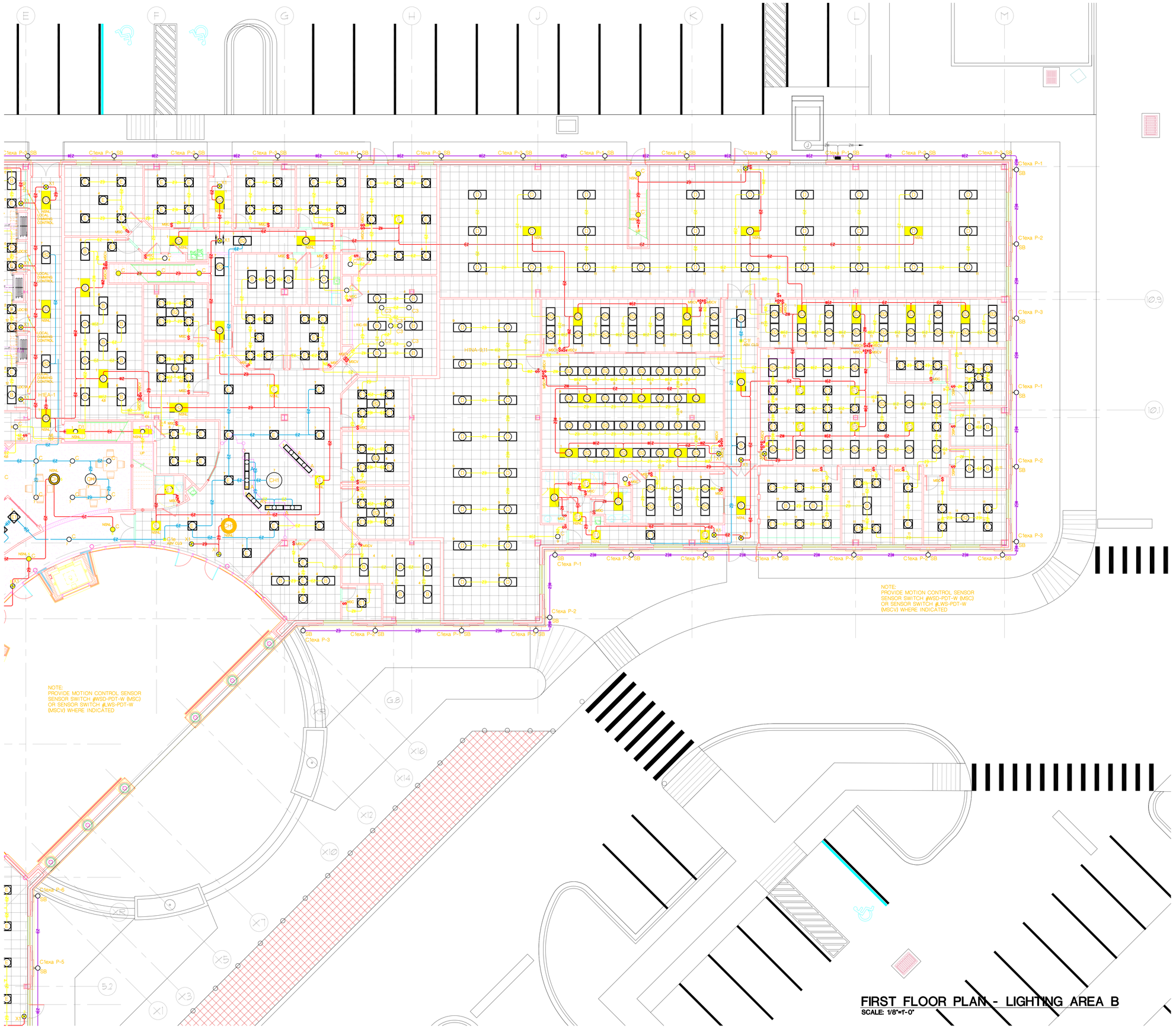
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A ELECTRICAL LIGHTING

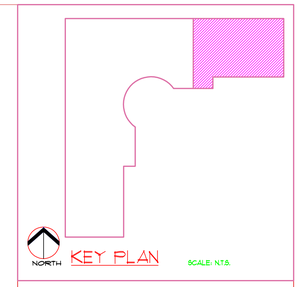
SHEET NUMBER:

E3.1A



FIRST FLOOR PLAN - LIGHTING AREA B

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



REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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EMAIL: CEGI@TAMPABAY.RR.COM
WEBSITE: CEGITAMPA.COM
CGA # EB-0030772

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

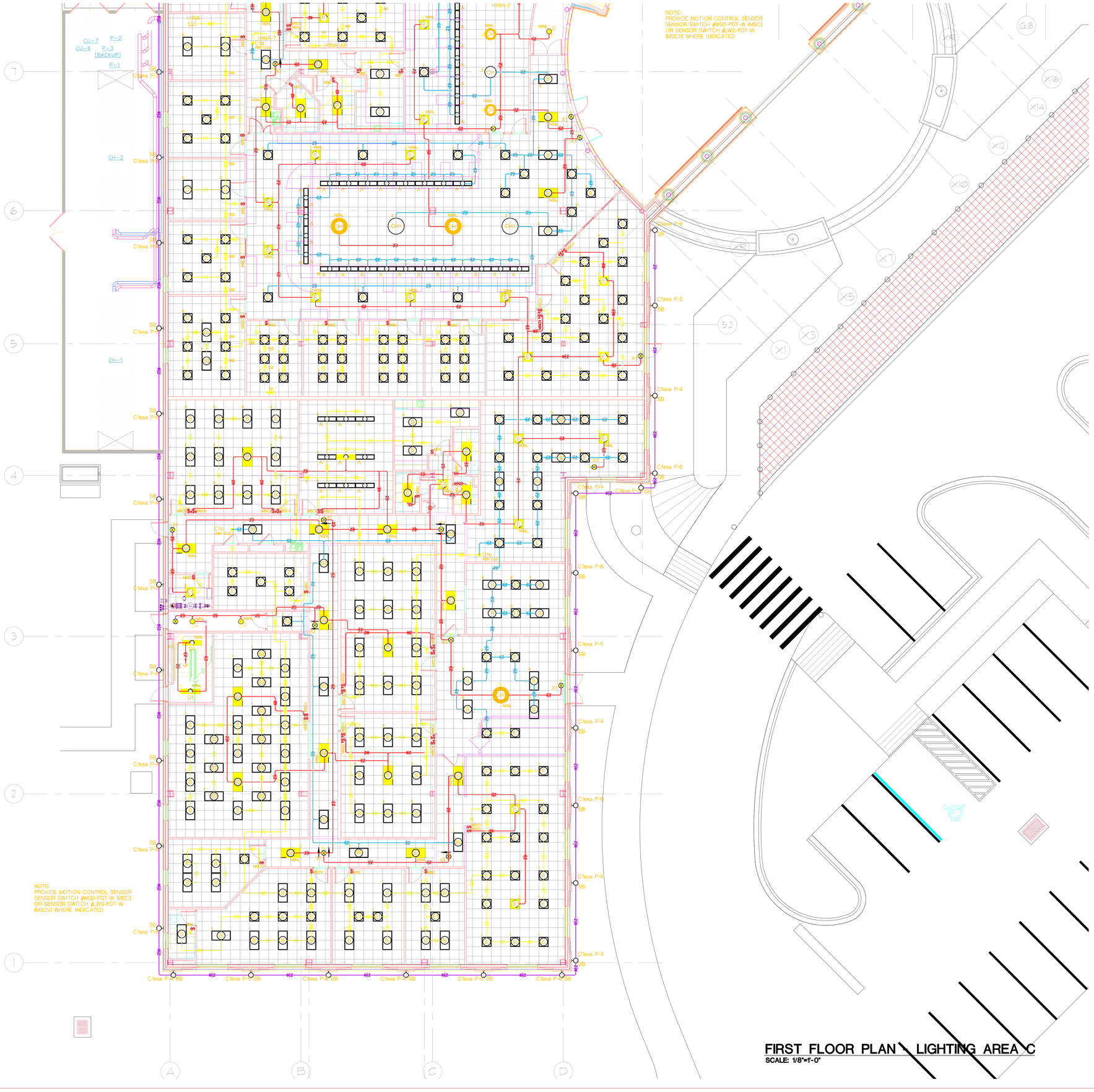
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE B ELECTRICAL LIGHTING

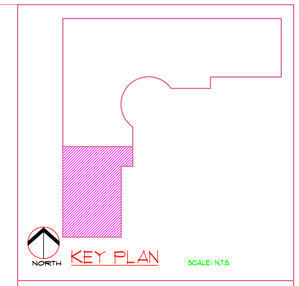
SHEET NUMBER:

E3.1B



FIRST FLOOR PLAN - LIGHTING AREA C

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





SEAL SHOWN TO VALID ONLY WITH ORIGINAL IMPRINT AND SIGNATURE

REVISIONS:

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	08-06-07
75% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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

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EMAIL: CEGI@TAMPABAY.RR.COM
WEB SITE: WWW.CEGIFLA.COM
CGIA # EB 0000772

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

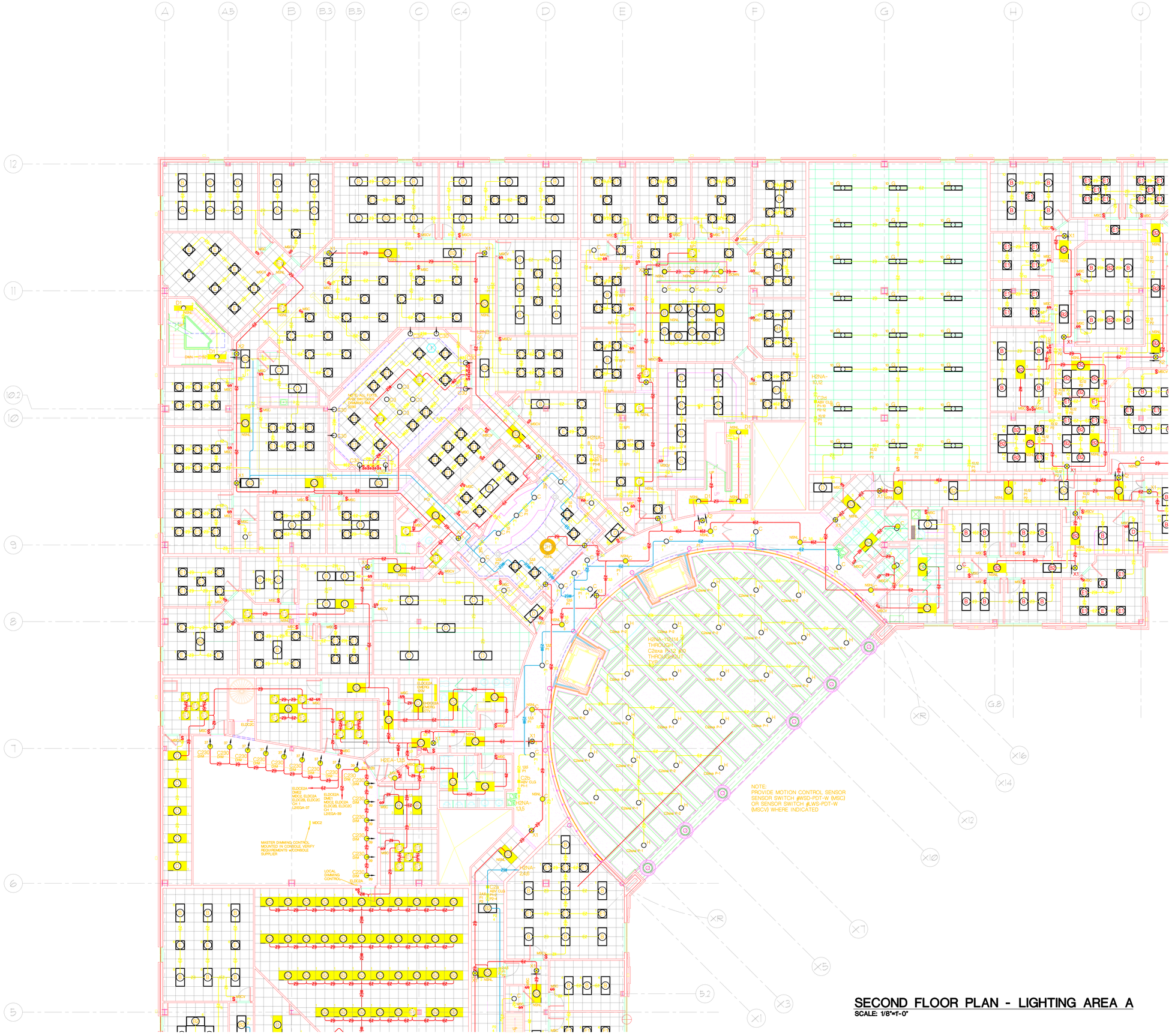
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE C
ELECTRICAL LIGHTING

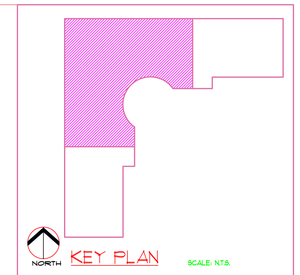
SHEET NUMBER:

E3.1C



SECOND FLOOR PLAN - LIGHTING AREA A

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



KEY PLAN SCALE: N.T.S.

DIMMER EQUIPMENT SPECIFICATIONS:

EHDCE2A - LYTEMODE CABINET #LS-LM-80-277, 277V, 1-PHASE INPUT WITH DIMMER MODULES AS INDICATED, EMERGENCY INPUT.
ELDCE2A - LYTEMODE CABINET #LS-LM-4040, 208/120V, 3-PHASE INPUT WITH DIMMER MODULES AS INDICATED, EMERGENCY INPUT.
MDC2 - LYTEMODE SYSTEM MASTER STATION #LS-CL-45ES
ELDC2A,2B,2C - LYTEMODE #LSCL2RESRE
ELDC3A3B
MANUFACTURE SHALL PROVIDE COMPLETE SHOP DRAWINGS WIRING DIAGRAMS, INSTALLATION AND OPERATING INSTRUCTIONS

NOTE: SYSTEM SHALL PROVIDE FULL LIGHT OUTPUT DURING FIRE ALARM - VERIFY REQUIREMENTS w/FIRE ALARM SYSTEM SUPPLIER

(X1) DIMMER SYSTEM FOR THIS AREA SHALL BE INRARED HAND HELD CONTROL DEVICE CONTROLLED. SUBMIT COMPLETE DTAILS FOR APPROVAL.

SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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CEGA # EB0007212

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

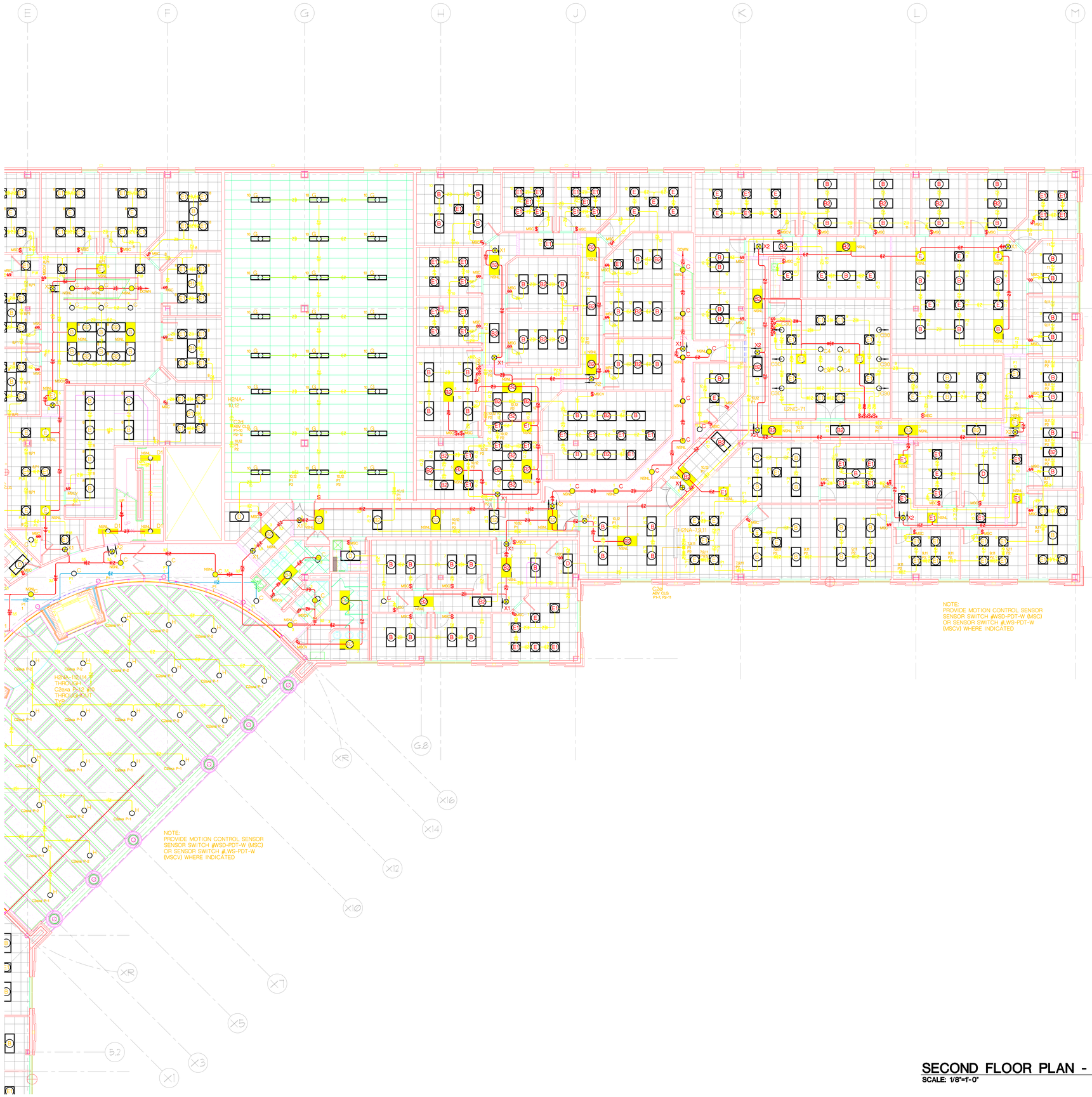
PANAMA CITY, FLORIDA

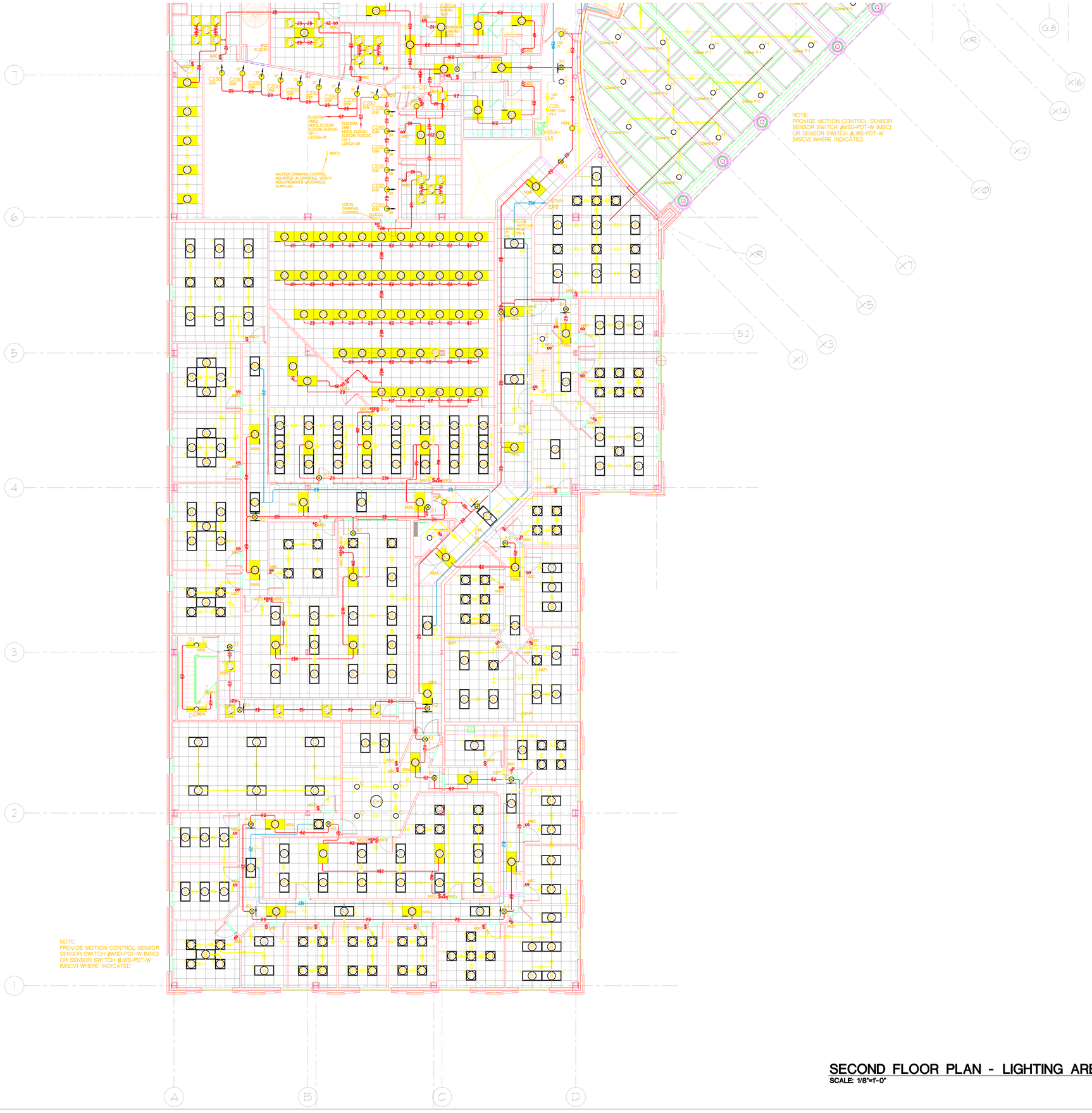
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SECOND FLOOR ZONE A ELECTRICAL LIGHTING

SHEET NUMBER:

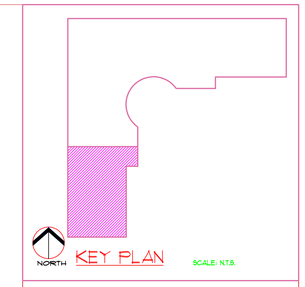
E3.2A


E
F
G
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J
K
L
M
G.8
J.8
K.8
L.8
M.8
10.9
10.1
5.2
HONA-10,12
C20a P-10 #10 THROUGHOUT TYPE
HONA-11,13
C20a P-11 #10 THROUGHOUT TYPE
HONA-12,14
C20a P-12 #10 THROUGHOUT TYPE
HONA-13,15
C20a P-13 #10 THROUGHOUT TYPE
HONA-14,16
C20a P-14 #10 THROUGHOUT TYPE
HONA-15,17
C20a P-15 #10 THROUGHOUT TYPE



SECOND FLOOR PLAN - LIGHTING AREA C

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



REVISIONS:

DESCRIPTION	DRAWN	CHECKED	DATE

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

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CGA # EB 0007212

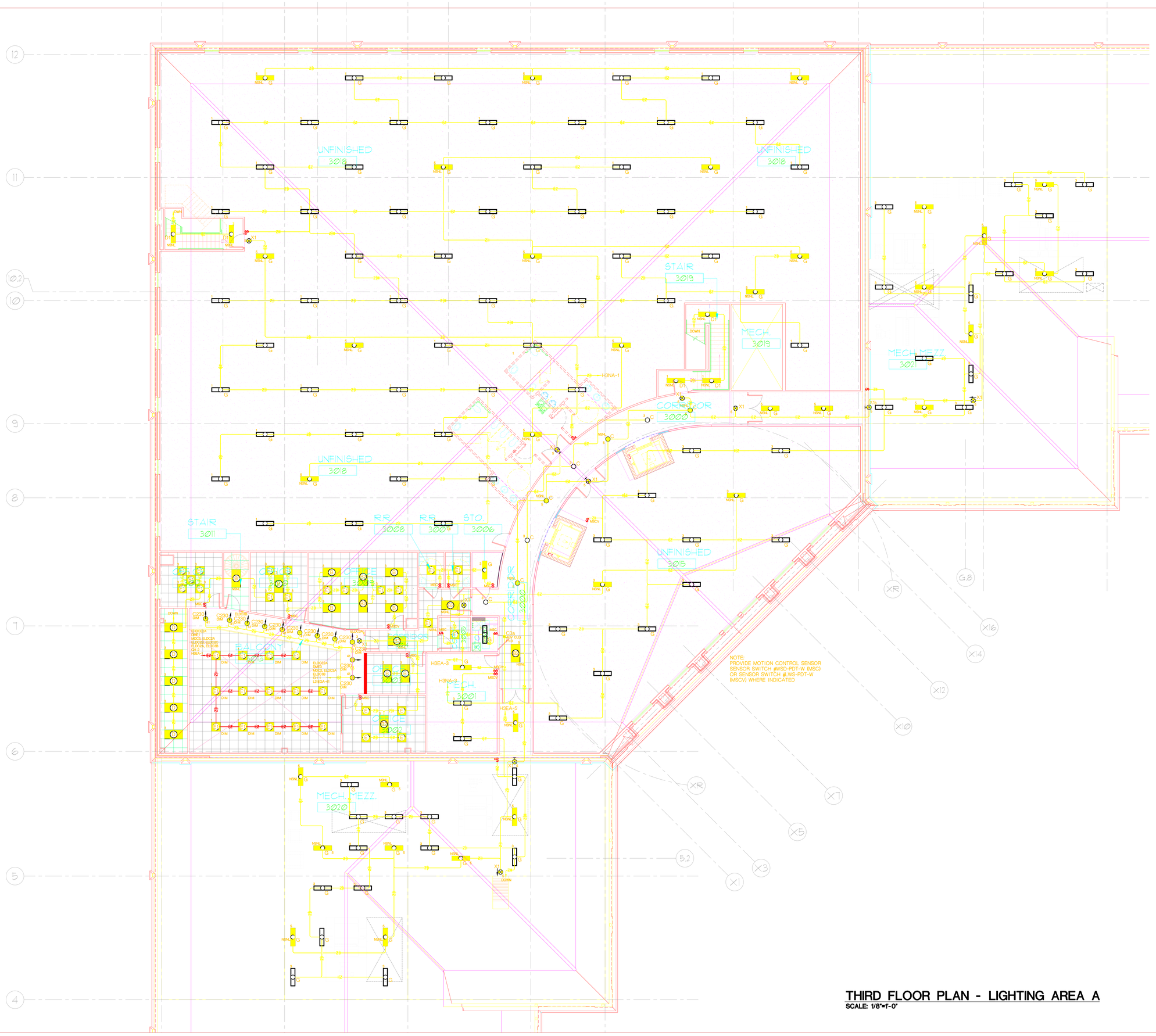
CEGI PROJECT NO. 129

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
SECOND FLOOR ZONE C
ELECTRICAL LIGHTING

SHEET NUMBER:
E3.2C



THIRD FLOOR PLAN - LIGHTING AREA A

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

KEY PLAN

NORTH

SCALE: N.T.S.

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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WEB: CEGITAMPA.COM
COA # EB0003712

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

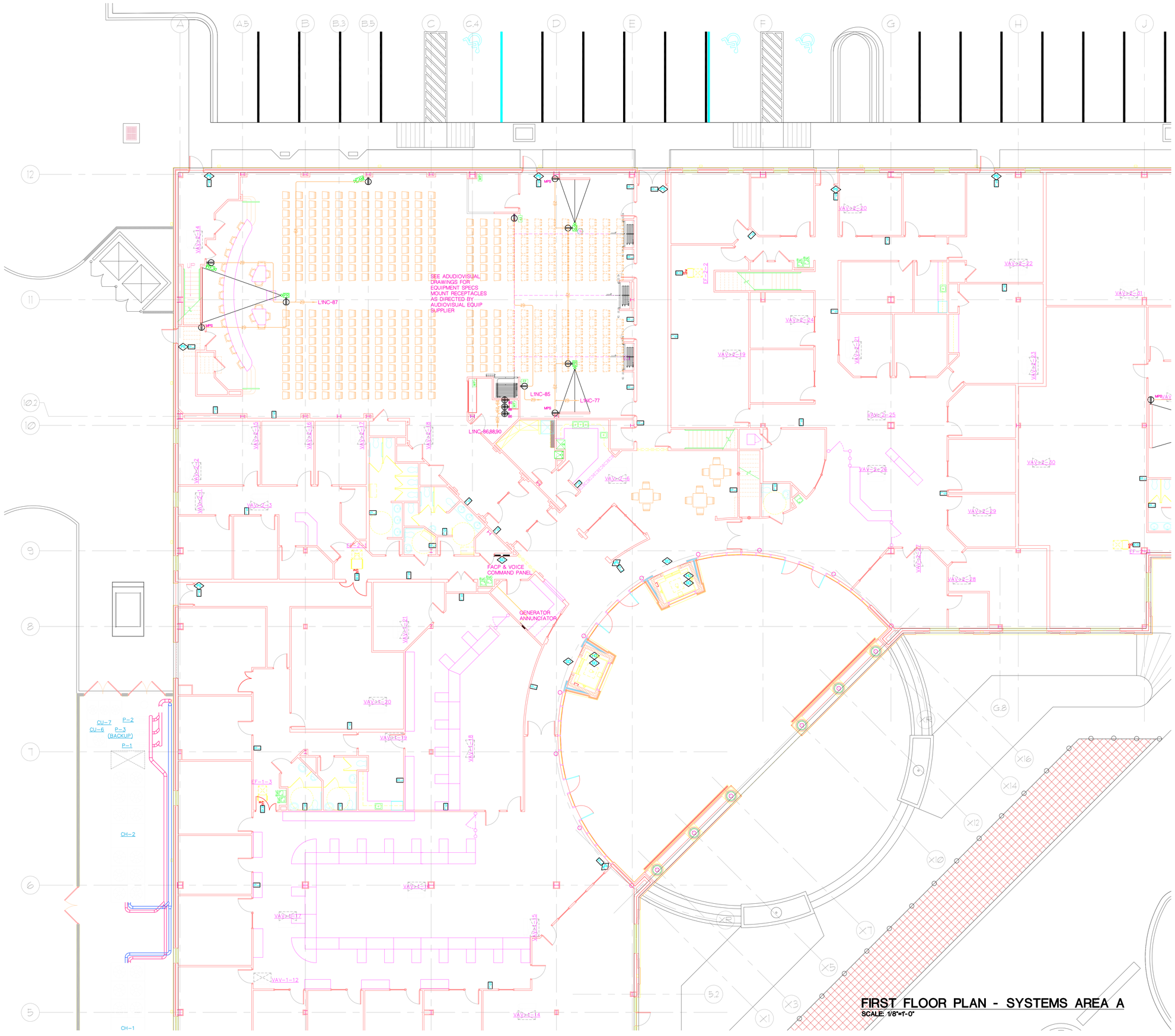
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SHEET TITLE:

THIRD FLOOR ZONE A
ELECTRICAL LIGHTING

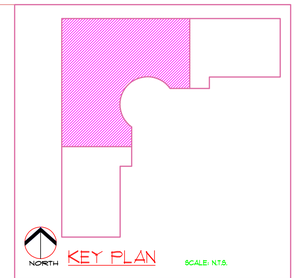
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E3.3A



FIRST FLOOR PLAN - SYSTEMS AREA A

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



KEY PLAN SCALE: N.T.S.

NOTE: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL.



SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

DESCRIPTION	DRAWN	CHECKED	DATE

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

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WEBSITE: CEGTAMPA.COM
COA # EB0005712

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

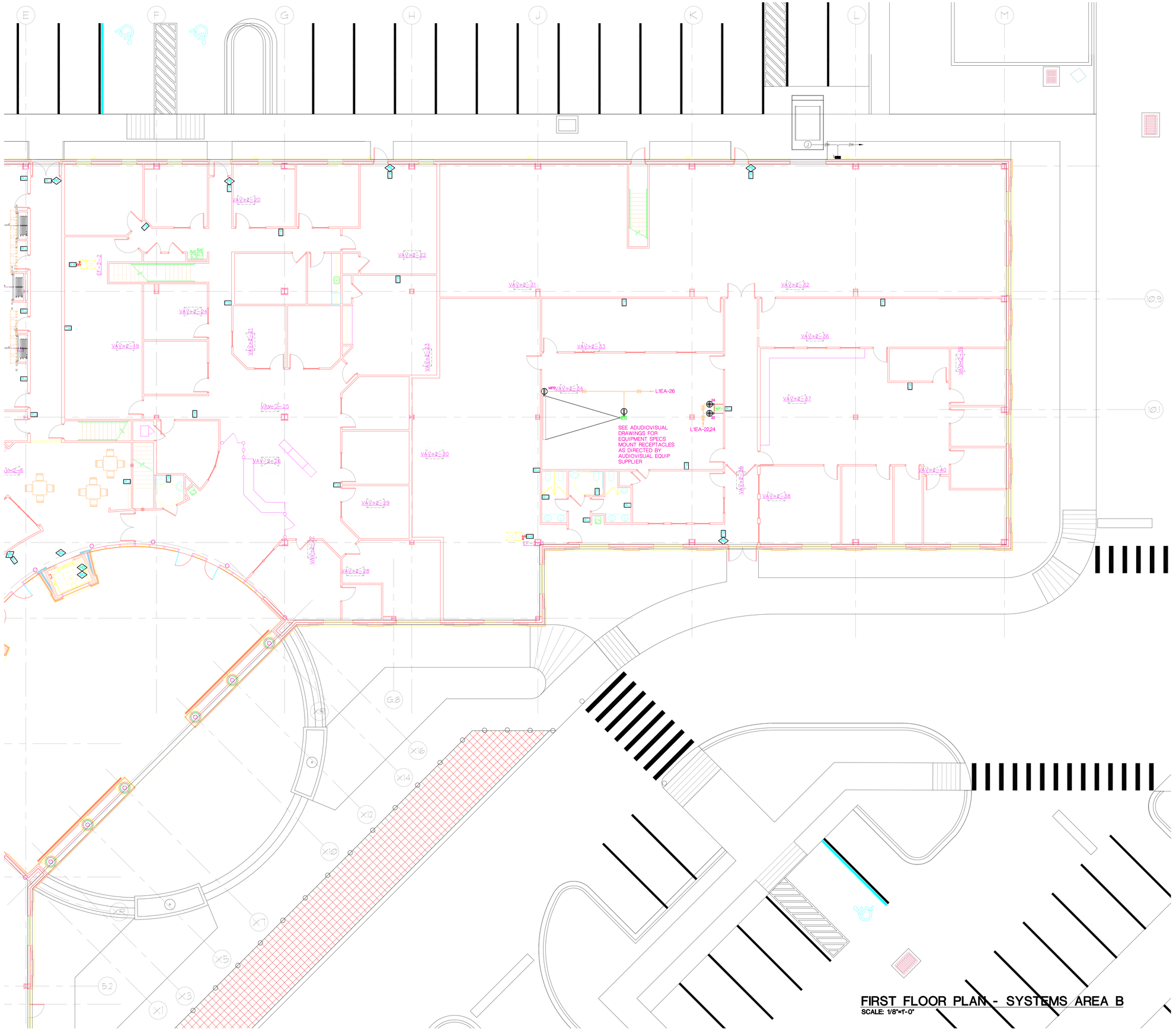
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR ZONE A ELECTRICAL SYSTEMS

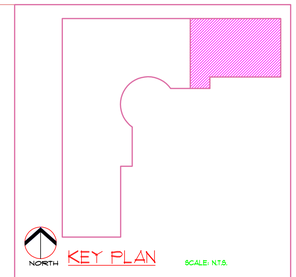
SHEET NUMBER:

E4.1A



FIRST FLOOR PLAN - SYSTEMS AREA B

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



KEY PLAN SCALE: N.T.S.

NOTE: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL.

BRIAN RAY PATTERSON LICENSE No. 59868 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

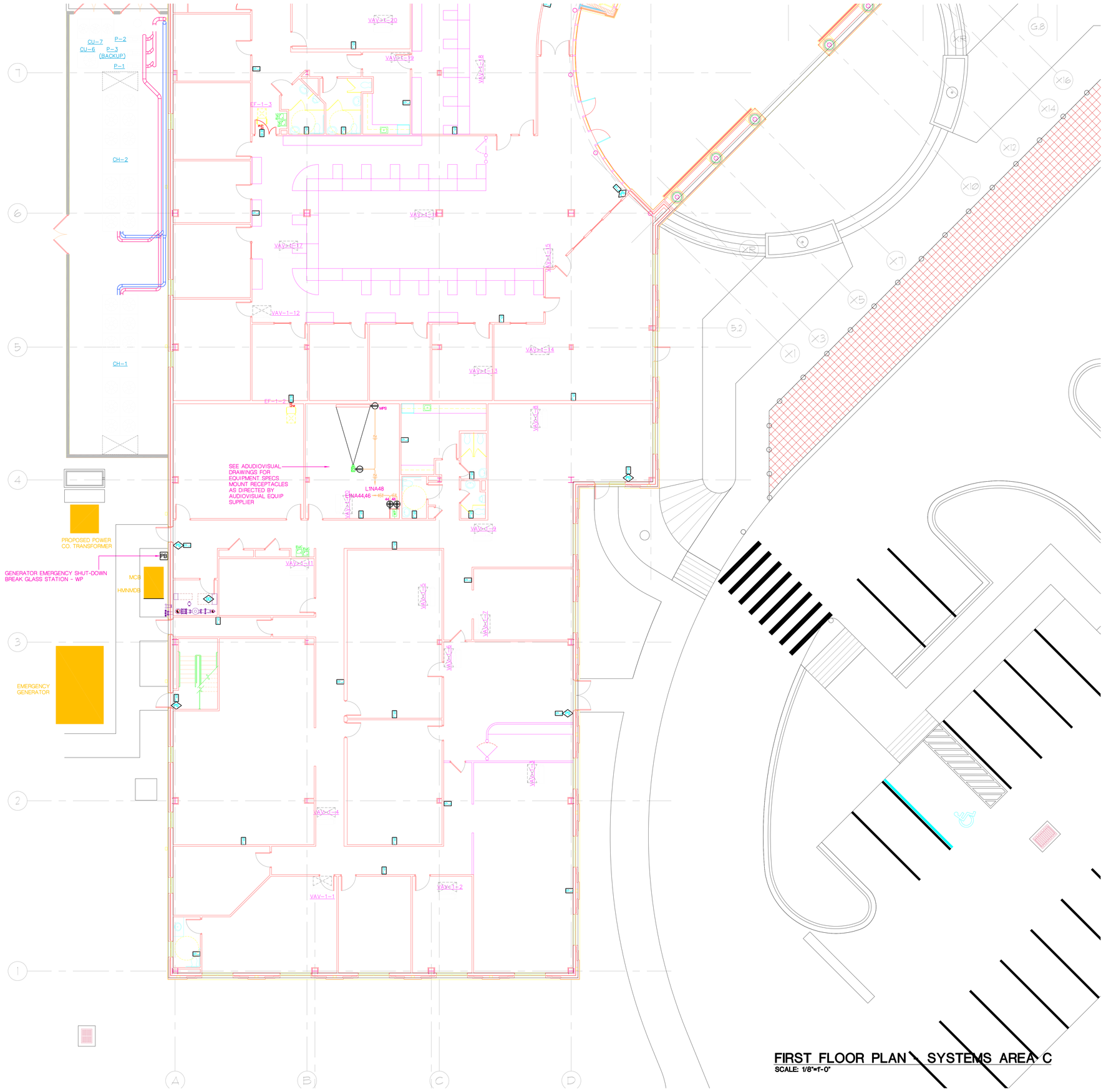
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FIRST FLOOR ZONE B ELECTRICAL SYSTEMS

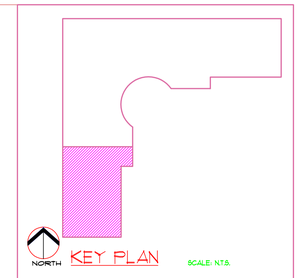
SHEET NUMBER:

E4.1B



FIRST FLOOR PLAN - SYSTEMS AREA C

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



PANAMA CITY, FLORIDA
LICENSED
No. 29888
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT OF SEAL PICTURE

REVISIONS:

DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	LHP	BB	03-26-07
DESIGN DEVELOPMENT	LHP	BB	06-06-07
DD OWNER REVIEW	LHP	BB	08-06-07
75% CONSTRUCTION DOCUMENTS	LHP	BB	11-16-07
100% PROGRESS SET	LHP	BB	01-18-08
BID DOCUMENTS	LHP	BB	03-03-08

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COA # EB 0003722

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

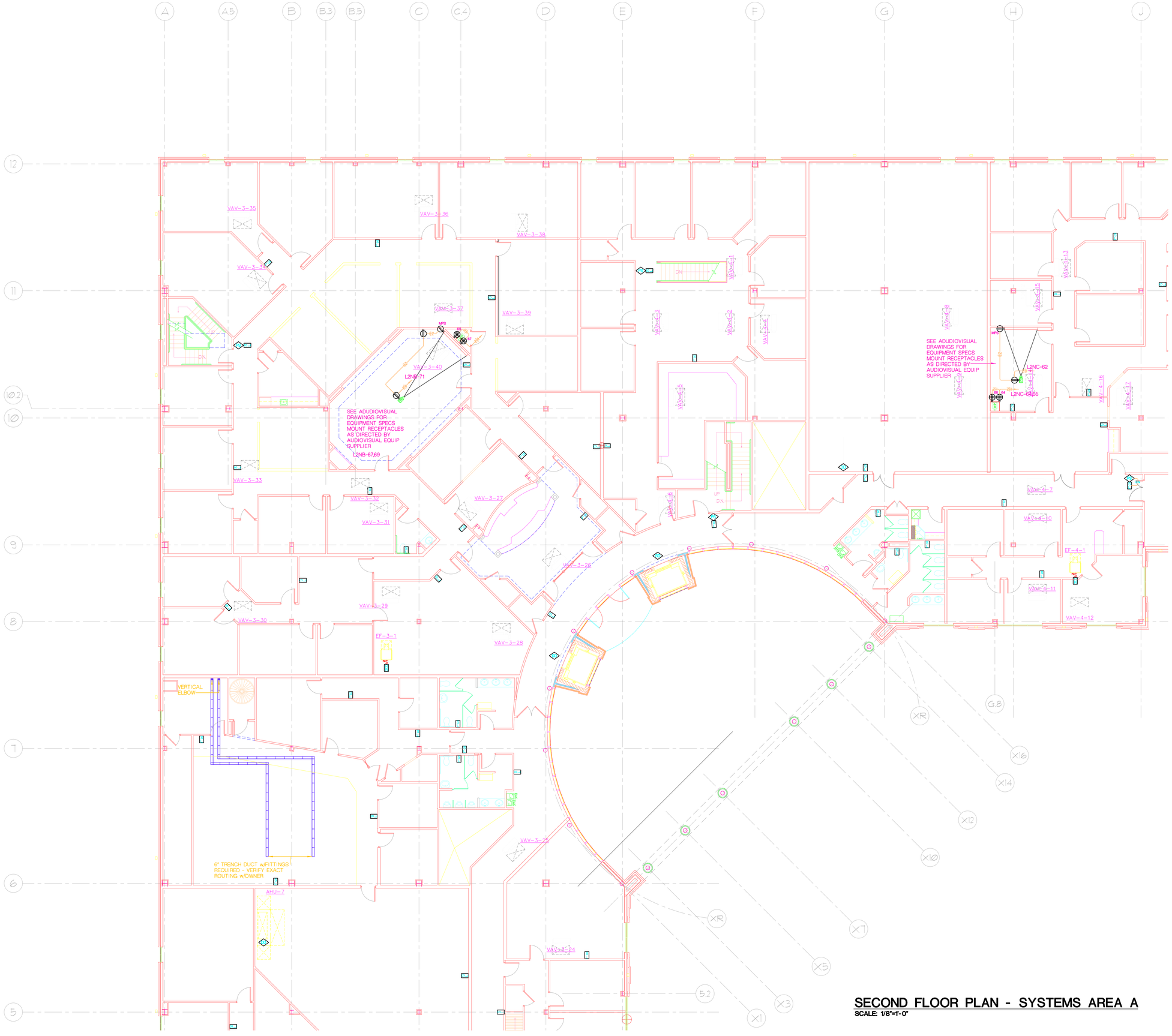
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FIRST FLOOR ZONE C
ELECTRICAL SYSTEMS

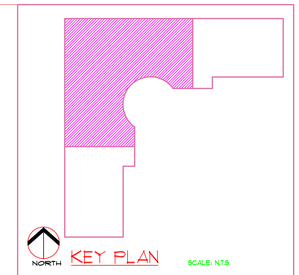
SHEET NUMBER:

E4.1C



SECOND FLOOR PLAN - SYSTEMS AREA A

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



NOTE: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL.

BENJAMIN READ TADLOCK LICENSE No. 69869 STATE OF FLORIDA PROFESSIONAL ENGINEER
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REVISIONS:

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DESIGN DEVELOPMENT	WHP	BB	06-06-07
DD OWNER REVIEW	WHP	BB	08-08-07
75% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID DOCUMENTS	WHP	BB	03-03-08

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WEB: CEGTAMPA.COM
CEG # EB-0007721

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

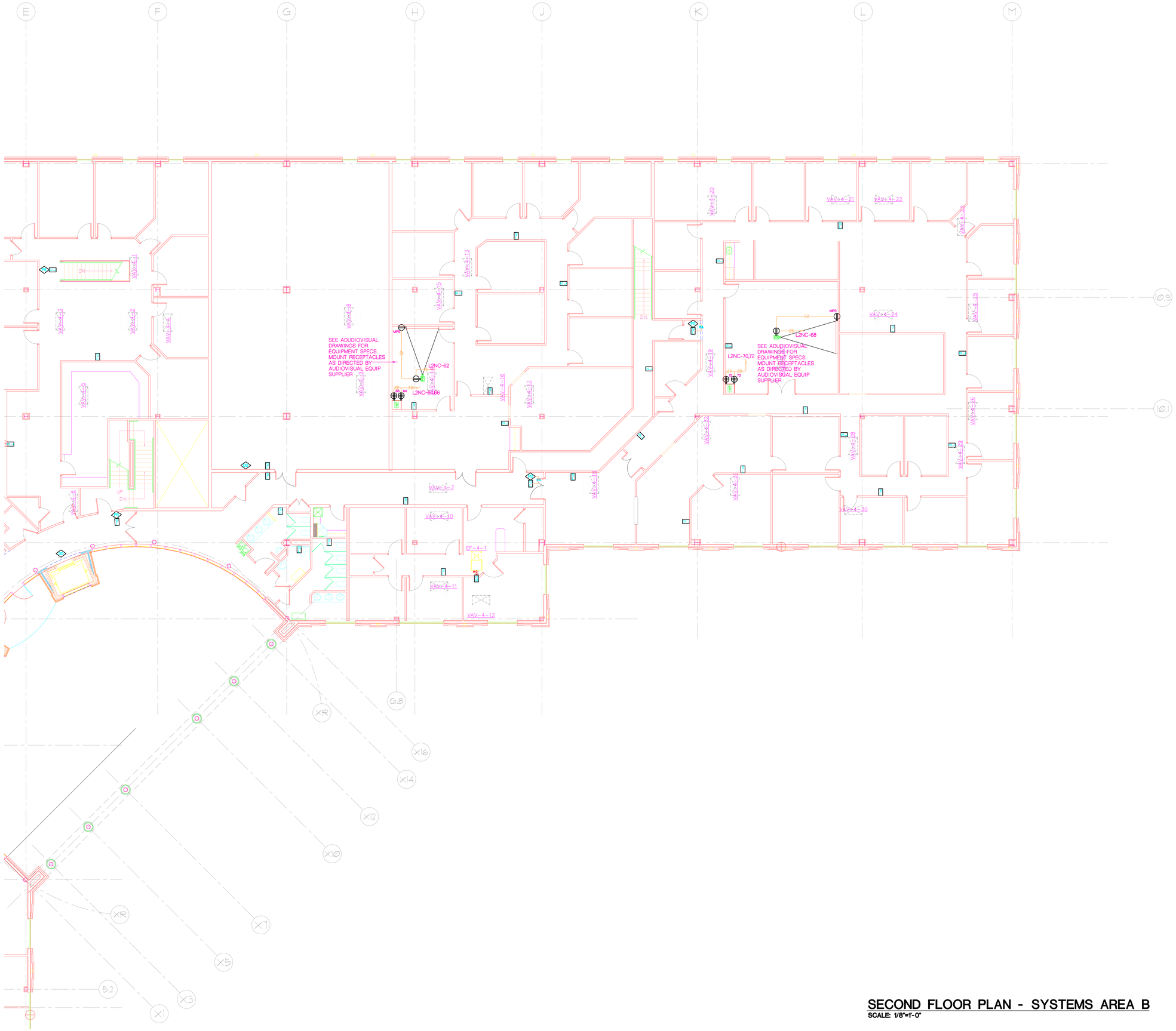
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SECOND FLOOR ZONE A ELECTRICAL SYSTEMS

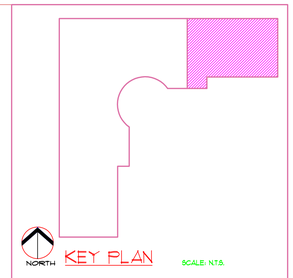
SHEET NUMBER:

E4.2A



SECOND FLOOR PLAN - SYSTEMS AREA B

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



NOTE: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL.

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COA # EB0005712

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

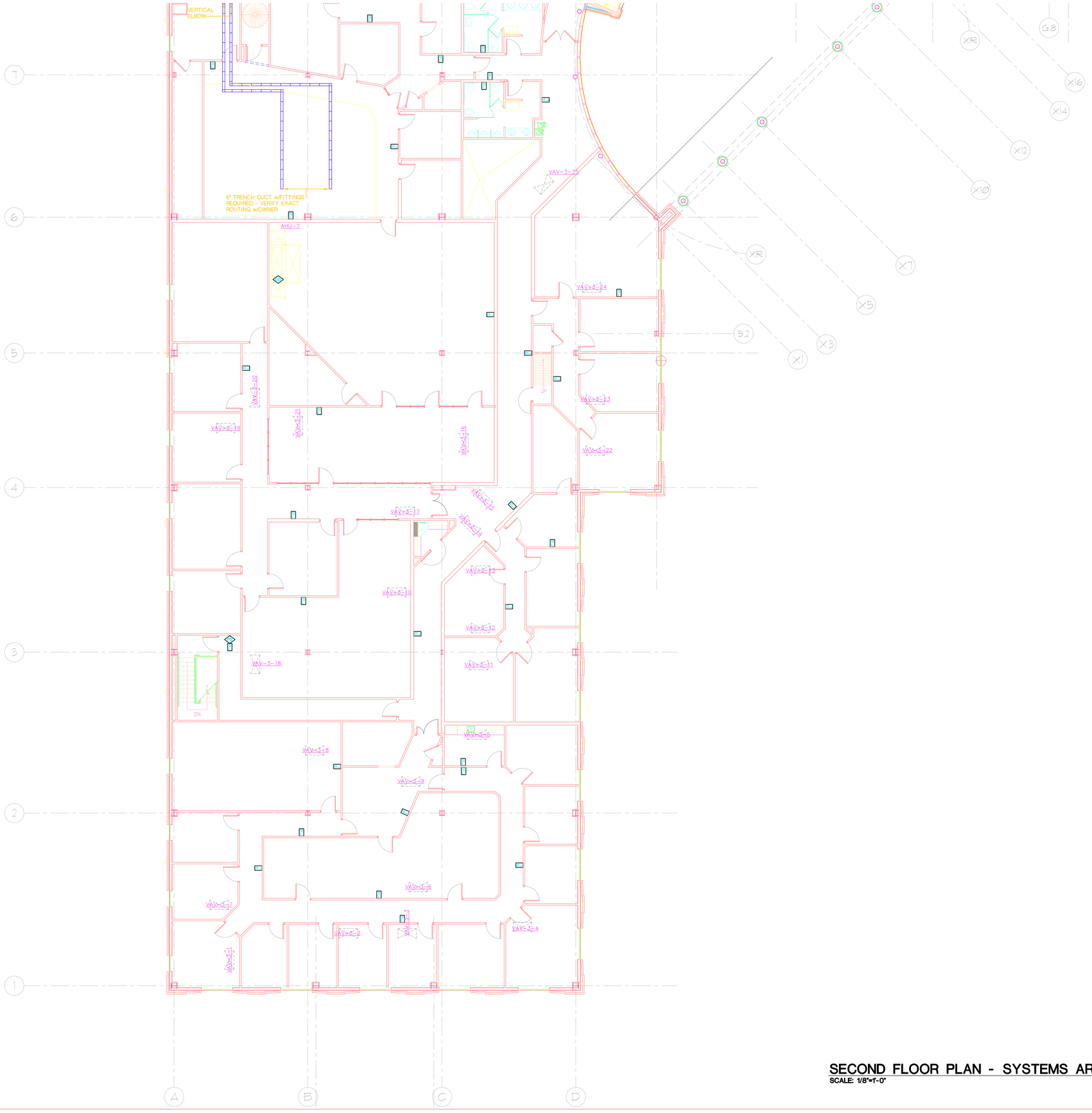
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE B ELECTRICAL SYSTEMS

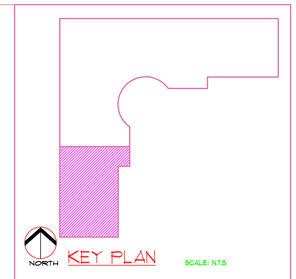
SHEET NUMBER:

E4.2B



SECOND FLOOR PLAN - SYSTEMS AREA C

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



NOTE: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL.

BENJAMIN LICENSED No. 69668 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL SHOWN IS VALID ONLY WITH SIGNATURE IMPRINT AND DATE.

REVISIONS:

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BID DOCUMENTS	WHP	BB	03-03-08

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CGA # ER0007212

CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

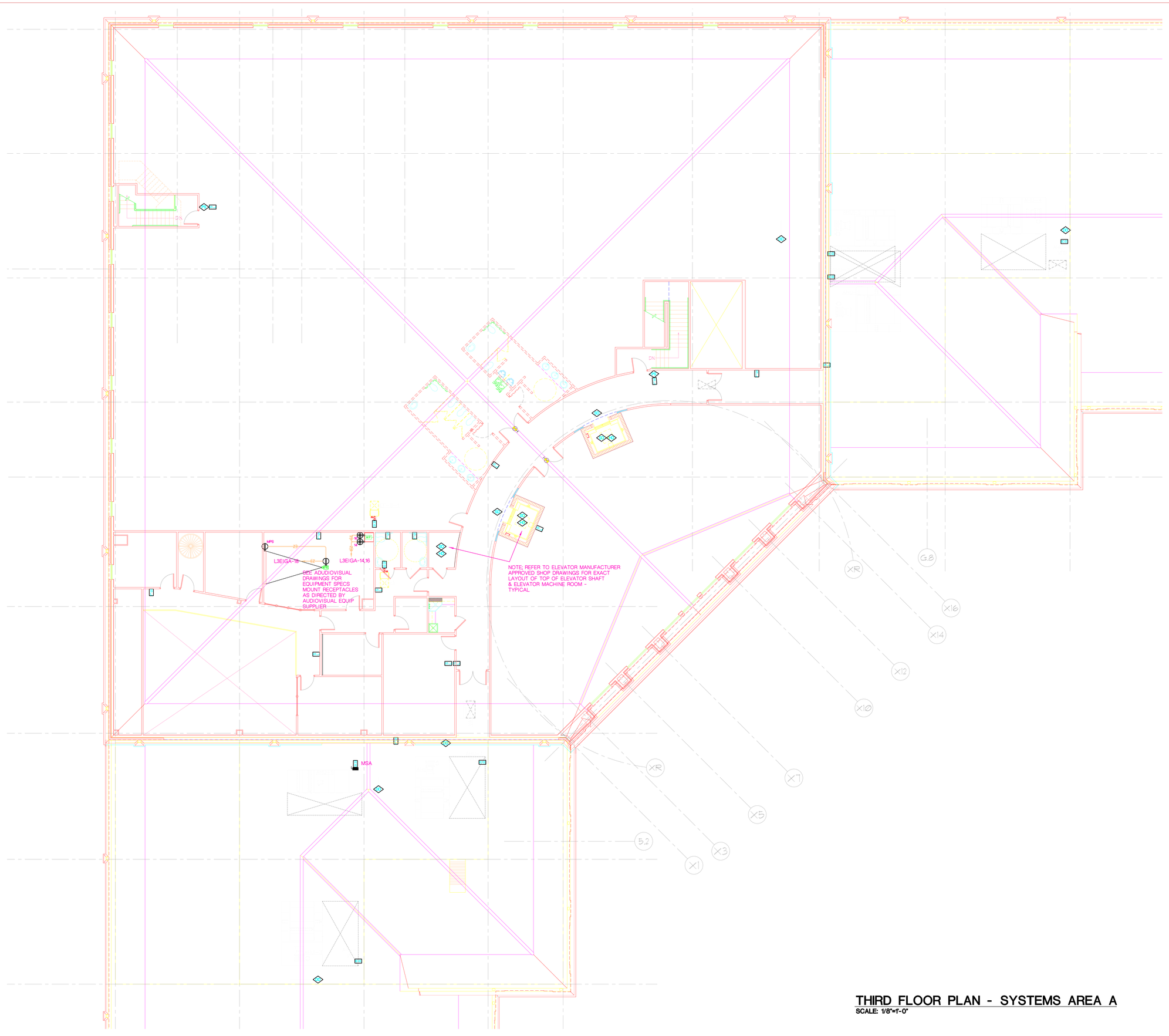
PANAMA CITY, FLORIDA

SHEET TITLE:

SECOND FLOOR ZONE C
ELECTRICAL SYSTEMS

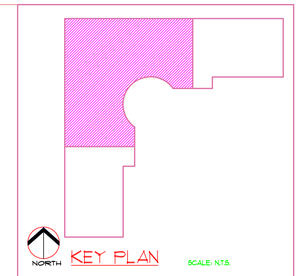
SHEET NUMBER:

E4.2C



THIRD FLOOR PLAN - SYSTEMS AREA A

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



KEY PLAN SCALE: N.T.S.

NOTE; REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AS DIRECTED BY FIRE ALARM AND FIRE PROTECTION SYSTEMS APPROVED SHOP DRAWINGS - TYPICAL

BENJAMIN BENITO LICENSE No. 69868 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

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% CONSTRUCTION DOCUMENTS	WHP	BB	11-16-07
100% PROGRESS SET	WHP	BB	01-18-08
BID/CONSTRUCTION	WHP	BB	03-20-08

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CEGI PROJECT NO. 129

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

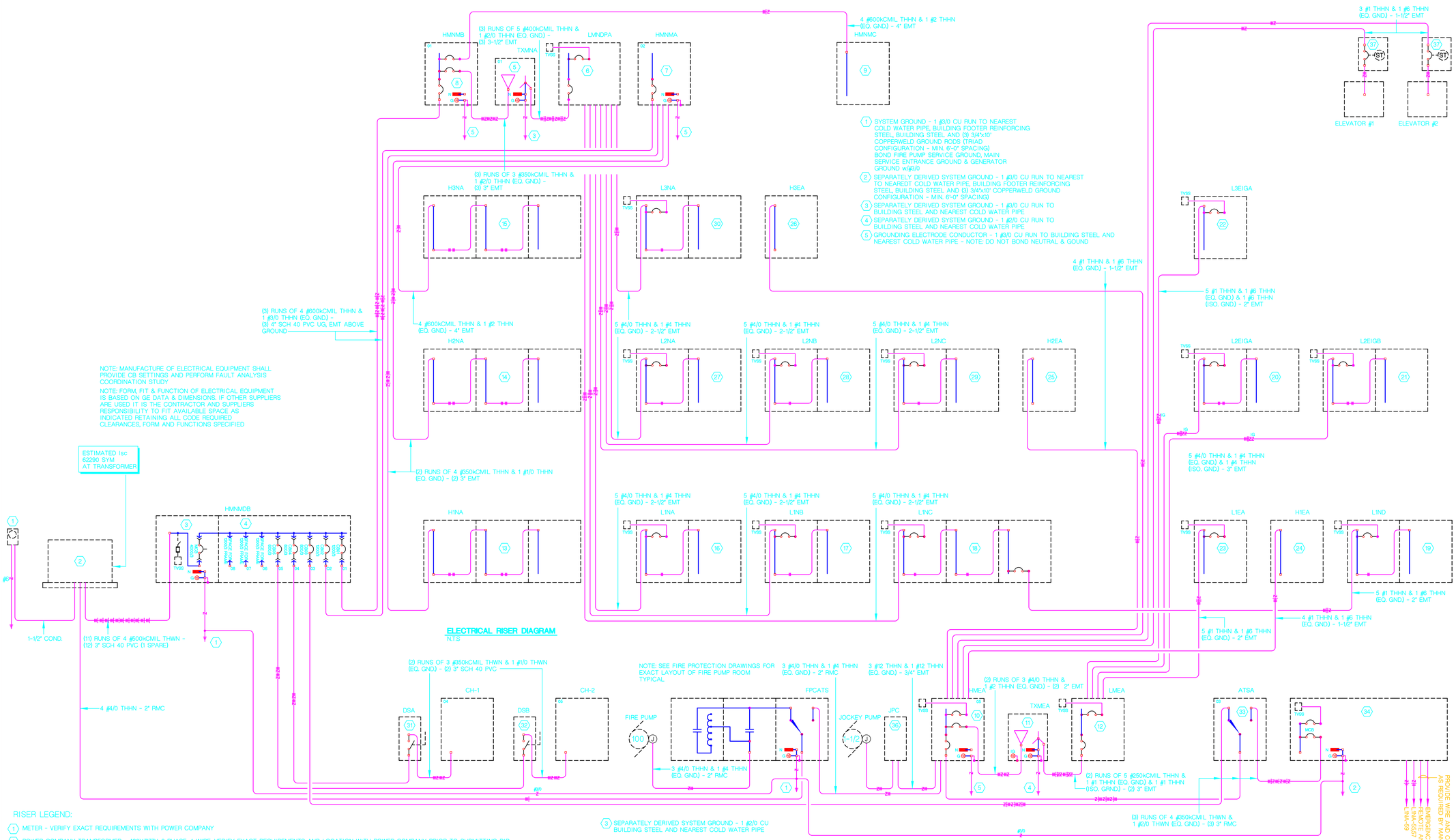
PANAMA CITY, FLORIDA

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 - 480Y/277V, 3-PHASE, 4-WIRE. VERIFY EXACT REQUIREMENTS AND LOCATION WITH POWER COMPANY PRIOR TO SUBMITTING BID.
3. MAIN CIRCUIT BREAKER MCB - 4000A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MOUNTED IN NEMA 3R ENCLOSURE. MAIN CIRCUIT BREAKER SHALL BE GE POWER BREAK w/MVT (LSIGT) GROUND FAULT FUNCTION. MAIN CIRCUIT BREAKER IN SHALL HAVE 100kAIC MINIMUM RATING. CIRCUIT BREAKER SHALL BE SERVICE ENTRANCE RATED. PROVIDE FACTORY INSTALLED TVSS w/FUSED DISCONNECT SWITCH.
4. MAIN SWITCHBOARD HMNMDP - 4000A, 480Y/277V, 3-PHASE, 4-WIRES/N, GROUND BAR, MOUNTED IN NEMA 3R ENCLOSURE w/MCB. SWITCHBOARD SHALL BE GE SPECTRA SERIES SWITCHBOARD. CIRCUIT BREAKERS IN SWITCHBOARD SHALL HAVE 100kAIC MINIMUM RATING. SEE CIRCUIT SCHEDULE FOR CB TYPES GE SPECTRA RMS w/MVT (LSIGT), BOLT-IN.
5. TRANSFORMER TXMNA - 480V DELTA PRIMARY/208Y/120V SECONDARY, 300kVA, K-FACTOR RATE (4), 115 Deg. RISE, 200% NEUTRAL, (6) 2-1/2% TAPS: 2 ABOVE AND 4 BELOW RATED PRIMARY VOLTS, GE TYPE QL.
6. PANELBOARD LMDPA - 1200A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MAIN CB 1000/3 GE SPECTRUM RMS w/MVT (LSIT), BOLT-IN 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
7. PANELBOARD HMNMA - 1200A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, 1200/3 MCS, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
8. PANELBOARD HMNMB - 1200A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, 1200/3 MCS, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
9. PANELBOARD HMNMC - 400A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
10. PANELBOARD HMEA - 1200A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, 850/3 MCS, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
11. TRANSFORMER TXMEA - 480V DELTA PRIMARY/208Y/120V SECONDARY, 150kVA, K-FACTOR RATE (13), 115 Deg. RISE, 200% NEUTRAL, (6) 2-1/2% TAPS: 2 ABOVE AND 4 BELOW RATED PRIMARY VOLTS, GE TYPE QL.
12. PANELBOARD LMEA - 600A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MAIN CB 500/3 GE SPECTRUM RMS w/MVT (LSIT), BOLT-IN 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. GE SPECTRA SERIES POWER PANELBOARD.
13. PANELBOARD H1NA - 600A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 3 SECTION.
14. PANELBOARD H2NA - 600A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 3 SECTION.
15. PANELBOARD H3NA - 400A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
16. PANELBOARD L1NA - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
17. PANELBOARD L1NB - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
18. PANELBOARD L1NC - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 3 SECTION.
19. PANELBOARD L1ND - 125A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
20. PANELBOARD L2EIGA - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, ISOLATED GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
21. PANELBOARD L2EIGB - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
22. PANELBOARD L3EIGA - 125A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
23. PANELBOARD L1EA - 125A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
24. PANELBOARD H1EA - 125A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
25. PANELBOARD H2EA - 125A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
26. PANELBOARD H3EA - 125A, 480Y/277V, 3-PHASE, 4-WIRE, S/N, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED.
27. PANELBOARD L2NA - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
28. PANELBOARD L2NB - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
29. PANELBOARD L2NC - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
30. PANELBOARD L3NA - 225A, 208Y/120V, 3-PHASE, 4-WIRE, 200% S/N, GROUND BAR, MLO, BOLT-IN CB's, 65kAIC RATED. SEE CIRCUIT SCHEDULE FOR BRANCH CIRCUIT BREAKERS REQUIRED. 2 SECTION.
31. DISCONNECT SWITCH DSA - 600V, 600A, 3-POLE, GROUND BAR, FUSE LESS, NEMA 3R. VERIFY MOUNTING w/MECHANICAL.
32. DISCONNECT SWITCH DSB - 600V, 600A, 3-POLE, GROUND BAR, FUSE LESS, NEMA 3R. VERIFY MOUNTING w/MECHANICAL.
33. AUTOMATIC TRANSFER SWITCH ATSA - 1000A, 4-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 - 65,000A RUSSELECTRIC RMTD
34. GENERATOR - 480Y/277V, 450kW/562.5 kVA 130deg. C. RISE, 3-PHASE, 4-WIRE, CATERPILLAR C15, EPA TIER 3 LOW EMISSIONS w/THE FOLLOWING:
    a) ONE YEAR WARRANTY
    b) UL 1446 RECOGNIZED CLASS H INSULATION GENERATOR
    c) ELECTRONIC ISOCHRONOUS GOVERNOR
    d) DIESEL FUEL w/UL LISTED DOUBLE WALL SUB-BASE FUEL TANK WITH 72 HOUR RUNNING CAPACITY @ FULL LOAD - UNIT MUST FIT IN FOOTPRINT AS SHOWN ON DRAWINGS
    e) DECISION-MAKER 550 CONTROLLER
    f) REMOTE ANNUCIATOR
    g) BATTERY RACK, CABLES, BATTERY, BATTERY HEATER, BATTERY CHARGER (EQUALIZE/FLOAT TYPE)
    h) DIESEL FUEL SYSTEM
    i) INTEGRAL VIBRATION ISOLATION
    j) OIL DRAIN EXTENSION
    k) WEATHER HOUSING WITH ROOF-MOUNTED CRITICAL SILENCER
    l) BLOCK HEATER
    m) FUEL FILTER
    n) ENGINE FLUIDS
    o) LINE CIRCUIT BREAKER 850/3 w/ENCLOSURE (CIRCUIT BREAKER GE SPECTRA RMS w/MVT (LSIT))
    p) REMOTE EMERGENCY STOP KIT
    q) BATTERY CHARGER
    r) INTERNAL FLUORESCENT LIGHT - BATTERY POWERED
    PROVIDE COMPLETE INSTALLATION, STARTUP, AND TWO HOUR LOAD BANK TEST. MANUFACTURER SHALL VERIFY ALTERNATOR SELECTION
35. FIRE PUMP AUTOTRANSFORMER STARTER CLOSED TRANSITION/POWER TRANSFER SWITCH - FIRETROL FTA-600/FTA900 FOR 100 HP FIRE PUMP. AUTOTRANSFORMER STARTER SHALL COMPLY WITH UL 218, STANDARD FOR FIRE PUMP CONTROLLERS, CSA, STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT, APPROVED BY FACTORY MUTUAL, NFPA 20, INSTALLATION OF CENTRIFUGAL FIRE PUMPS, AND NFPA 70, NEC. POWER TRANSFER SWITCH SHALL COMPLY WITH UL 218, STANDARD FOR FIRE PUMP CONTROLLERS, UL 1008, AUTOMATIC TRANSFER SWITCHES, UL 508, INDUSTRIAL CONTROL, EQUIPMENT, CSA, STANDARD INDUSTRIAL CONTROL EQUIPMENT, APPROVED BY FACTORY MUTUAL, NFPA 20, INSTALLATION OF CENTRIFUGAL FIRE PUMPS, AND NFPA 70, NEC. SHORT-CIRCUIT (WITHSTAND) CURRENT RATING OF THE COMBINATIONS SHALL BE 200KAIC SYM. MAX. PROVIDE STANDARD CONTROLS AND ACCESSORIES ON BOTH UNITS. UNIT SHALL BE RATED FOR SERVICE ENTRANCE USE. PROVIDE FACTORY INSTALLED STANDARD FEATURES.
36. JOCKEY PUMP CONTROLLER - FIRETROL FTA500 FOR 1-1/2 HP JOCKEY PUMP. STARTER SHALL BE LISTED BY UNDERWRITERS LABORATORIES UL508, CSA, STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT, NEMA, LATEST EDITION OF NATIONAL ELECTRICAL CODE, NFPA 70. PROVIDE FACTORY INSTALLED STANDARD FEATURES WITH POWER 'ON' AND PUMP OPERATING PILOT LIGHTS.
37. ELEVATOR SHUNT-TRIP CB - 480V, 3 POLE, 80 AMP, ENCLOSED CB w/120V SHUNT-TRIP OPERATOR FOR ELEVATOR SHUT DOWN. VERIFY EXACT REQUIREMENTS w/FIRE ALARM SYSTEM SUPPLIER AND ELEVATOR EQUIPMENT SUPPLIER.

ELECTRICAL RISER DIAGRAM
SCALE: NTS

STATE OF FLORIDA PROFESSIONAL ENGINEER
BRIAN KEITH TAYLOR
No. 59869
SEAL SHOWN IS VALID ONLY WITH EMBOSSED IMPRINT AND SIGNATURE

REVISIONS:

DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	WHP	BB	03-26-07
DESIGN DEVELOPMENT	WHP	BB	06-06-07
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CAGE CODE 3BAM2

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
ELECTRICAL RISER DIAGRAM

SHEET NUMBER:
E7.0

NEW - NORMAL BRANCH

PANEL: HMNMDB

A.I.C.: 100,000 VOLTS: 277/480/60/3 — MCB: 4000/3 MLO: N/A — BLDG: MEZZANINE MTD: FLOOR

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
T	HMNMB	1200	3	263.59			1				2	273.89			1200	3	HMNMA	T
T	GE SPECTRA RMS				264.55								275.28				GE SPECTRA RMS	T
T	w/MVT (LSIGT)					265.42								275.12			w/MVT (LSIGT)	T
T	ATSA	800	3	150.33			3				4	118.33			600	3	CH-1	M
T	GE SPECTRA RMS				149.77								118.33				GE SPECTRA RMS	M
T	w/MVT (LSIGT)					149.54								118.33			w/MVT (LSIGT)	M
M	CH-2	600	3	118.33			5				6						SPACE	
M	GE SPECTRA RMS				118.33													
M	w/MVT (LSIGT)					118.33												
	SPACE						7				8						SPACE	
	SPACE						9				10						SPACE	
	SPACE						11				12						SPACE	
	SPACE						13				14						SPACE	
	TOTAL CONNECTED KVA			532.25	532.65	533.29						392.22	393.61	393.45				

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:	266.24	266.24	266.24
T	XFRMR./PANEL/ATS:	687.81	689.60	690.08

	PHASE A	PHASE B	PHASE C
TOTAL KVA	954.05	955.84	956.32
TOTAL AMPS	3444.23	3450.69	3452.43

ACTUAL BREAKER AMPS 3453.27
TOTAL KVA 2866.22

PROVIDE GROUND FAULT FUNTION ON ALL FEEDER BREAKERS

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NEW - NORMAL BRANCH

PANEL: H1NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: TAX COLL 1st FLOOR MTD: FLUSH

Section 1 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
L	LTG	20	1	4.12			2				4	4.00			20	1	LTG	L
L	LTG	20	1		4.15		3				4		3.71		20	1	LTG	L
L	LTG	20	1			3.90	5				6			4.01	20	1	LTG	L
L	LTG	20	1	2.72			7				8	1.72			20	3	HCCN1A-DME1	L
L	LTG	20	1		3.62		9				10		0.72				HCCN1A-DME4&5	L
L	LTG	20	1			3.62	11				12			0.72			HCCN1A-DME2&3	L
	SPARE	20	1				13				14				20	1	SPARE	
	SPARE	20	1				15				16				20	1	SPARE	
	SPARE	20	1				17				18				20	1	SPARE	
	SPARE	20	1				19				20				20	1	SPARE	
	SPARE	20	1				21				22				20	1	SPARE	
	SPARE	20	1				23				24				20	1	SPARE	
H	VAV-1-1	30	2	5.00			25				26	5.00			30	2	VAV-1-8	H
H					5.00		27				28		5.00					H
H	VAV-1-5	25	1			5.00	29				30			5.00	25	1	VAV-1-6	H
H	VAV-1-15	30	2	5.00			31				32	5.00			30	2	VAV-2-15	H
H					5.00		33				34		5.00					H
H	VAV-1-17	25	1			5.00	35				36			5.00	25	1	VAV-1-19	H
H	VAV-2-16	30	2	5.00			37				38	5.00			30	2	VAV-2-17	H
H					5.00		39				40		5.00					H
H	VAV-2-4	25	1			5.00	41				42			5.00	25	1	VAV-2-25	H
	TOTAL CONNECTED KVA			21.83	22.77	22.52						20.77	19.43	19.73				

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NEW - NORMAL BRANCH

PANEL: H2NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: FLUSH MTD: TRAFFIC 2nd FLOOR

Section 1 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
L	LTG	20	1	3.11			2				4	3.05			20	1	LTG	L
L	LTG	20	1		3.29		3				4		3.01		20	1	LTG	L
L	LTG	20	1			3.15	5				6			3.13	20	1	LTG	L
L	LTG	20	1	1.98			7				8	3.01			20	1	LTG	L
L	LTG	20	1		1.78		9				10		3.15		20	1	LTG	L
L	LTG	20	1			1.73	11				12			3.11	20	1	LTG	L
	SPARE	20	1				13				14				20	1	SPARE	
	SPARE	20	1				15				16				20	1	SPARE	
	SPARE	20	1				17				18				20	1	SPARE	
	SPARE	20	1				19				20				20	1	SPARE	
	SPARE	20	1				21				22				20	1	SPARE	
	SPARE	20	1				23				24				20	1	SPARE	
H	VAV-3-1	20	1	4.00			25				26	4.00			20	1	VAV-3-11	H
H	VAV-3-3	20	1		4.00		27				28		4.00		20	1	VAV-3-18	H
H	VAV-3-7	20	1			4.00	29				30			4.00	20	1	VAV-3-19	H
H	VAV-3-27	20	1	4.00			31				32	4.00			20	1	VAV-3-36	H
H	VAV-3-29	20	1		4.00		33				34		4.00		20	1	VAV-3-37	H
H	VAV-3-30	20	1			4.00	35				36			4.00	20	1	VAV-4-17	H
H	VAV-4-25	20	1	4.00			37				38	3.50			20	2	VAV-3-2	H
H	VAV-4-28	20	1		4.00		39				40		3.50					H
H	VAV-4-29	20	1			4.00	41				42			5.00	25	1	VAV-3-4	H
	TOTAL CONNECTED KVA			17.01	17.07	16.88						17.56	17.65	19.24				

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NEW - NORMAL BRANCH

PANEL: HMNMA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: 1200/3 MLO: N/A — BLDG: MEZZANINE MTD: WALL

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
T	PNL H1NA	600	3	148.66			1				2	7.39			400	3	PNL H3NA	T
T	GE SPECTRA RMS				148.35								6.82				GE SPECTRA RMS	T
T	w/MVT (LSIT)					148.5								3.50			w/MVT (LSIT)	T
T	PNL H2NA	600	3	117.84			3				4						SPACE	
T	GE SPECTRA RMS				120.11													
T	w/MVT (LSIT)					123.11												
	SPACE						5				6						SPACE	
	SPACE						7				8						SPACE	
	SPACE						9				10						SPACE	
	SPACE						11				12						SPACE	
	SPACE						13				14						SPACE	
	TOTAL CONNECTED KVA			266.50	268.46	271.62						7.39	6.82	3.50				

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:	0.00	0.00	0.00
T	XFRMR./PANEL/ATS:	273.89	275.28	275.12

	PHASE A	PHASE B	PHASE C
TOTAL KVA	273.89	275.28	275.12
TOTAL AMPS	988.77	993.79	993.21

ACTUAL BREAKER AMPS 993.12
TOTAL KVA 824.29

MCB SHALL BE MOLDED CASE SWITCH
ALL CB's SHALL BE BOLT-IN

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NEW - NORMAL BRANCH

PANEL: H1NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: TAX COLL 1st FLOOR MTD: FLUSH

Section 2 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
H	VAV-2-18	30	2	5.00			43				44	5.00			30	2	VAV-2-26	H
H					5.00		45				46		5.00					H
H	VAV-2-27	25	1			5.00	47				48			5.00	25	1	VAV-2-28	H
H	VAV-2-35	30	2	5.00			49				50	6.00			30	1	VAV-1-2	H
H					5.00		51				52		6.00		30	1	VAV-1-18	H
H	VAV-2-40	25	1			5.00	53				54			6.00	30	1	VAV-2-3	H
H	VAV-2-30	30	1	6.00			55				56	6.00			35	2	VAV-2-5	H
H	VAV-2-31	30	1		6.00		57				58		6.00					H
H	VAV-2-32	30	1			6.00	59				60			6.00	30	1	VAV-2-39	H
H	VAV-1-3	30	2	5.50			61				62	4.00			20	1	VAV-1-11	H
H					5.50		63				64		5.50		30	2	VAV-1-14	H
H	VAV-1-10	20	1			4.00	65				66			5.50				H
H	VAV-1-13	20	1	4.00			67				68	4.00			25	2	VAV-1-4	H
H	VAV-1-7	15	1		3.00		69				70		4.00					H
H	VAV-1-20	20	1			4.00	71				72			4.00	20	1	VAV-2-1	H
H	VAV-1-9	15	1	3.00			73				74	4.00			20	1	VAV-2-11	H
H	VAV-1-12	15	1		3.00		75				76		4.00		20	1	VAV-2-19	H
H	VAV-2-13	15	1			3.00	77				78			4.50	25	2	VAV-1-16	H
H	VAV-2-9	20	1	4.00			79				80	4.50			20	1	VAV-2-6	H
H	VAV-2-10	20	1		4.00		81				82		4.00		20	1	VAV-2-8	H
H	VAV-2-23	20	1			4.00	83				84			4.00	20	1	VAV-2-6	H
	TOTAL CONNECTED KVA			32.50	31.50	31.00						33.50	34.50	35.00				

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NEW - NORMAL BRANCH

PANEL: H2NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: FLUSH MTD: TRAFFIC 2nd FLOOR

Section 2 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
H	VAV-4-32	20	1	4.00			43				44	6.00			30	1	VAV-3-5	H
H	VAV-4-33	20	2		3.50		45				46		6.00		30	1	VAV-3-10	H
H						3.50	47				48			5.00	25	1	VAV-3-22	H
H	VAV-3-13	15	1	3.00			49				50	3.00			15	1	VAV-3-8	H
H	VAV-3-17	15	1		3.00		51				52		3.00		15	1	VAV-3-9	H
H	VAV-3-20	15	1			3.00	53				54			3.00	15	1	VAV-3-12	H
H	VAV-3-26	15	1	3.00			55				56	3.00			15	1	VAV-3-33	H
H	VAV-3-34	15	1		3.00		57				58		3.00		15	1	VAV-3-39	H
H	VAV-3-35	15	1			3.00	59				60			3.00	15	1	VAV-4-2	H
H	VAV-4-4	15	1	3.00			61				62	3.00			15	1	VAV-4-21	H
H	VAV-4-5	15	1		3.00		63				64		3.00		15	1	VAV-4-22	H
H	VAV-4-18	15	1			3.00	65				66			3.00	15	1	VAV-4-23	H
H	VAV-4-9	30	1	6.00			67				68	6.00			30	1	VAV-3-23	H
H	VAV-4-13	30	1		6.00		69				70		6.00		30	1	VAV-3-33	H
H	VAV-4-19	30	1			6.00	71				72			6.00	30	1	VAV-4-31	H
H	VAV-3-28	15	1	2.00			73				74	2.00			15	1	VAV-3-14	H
H	VAV-3-31	15	1		2.00		75				76		2.00		15	1	VAV-3-15	H
H	VAV-4-3	15	1			2.00	77				78			2.00	15	1	VAV-3-16	H
H	VAV-3-40	25	1	5.00			79				80	2.00			15	1	VAV-4-14	H
H	VAV-4-1	25	1		5.00		81				82		2.00		15	1	VAV-4-15	H
H	VAV-4-10	25	1			5.00	83				84			2.00	15	1	VAV-4-20	H
	TOTAL CONNECTED KVA			26.00	25.50	25.50						25.00	25.00	24.00				

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NEW - NORMAL BRANCH

PANEL: HMNMB

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: 1200/3 MLO: N/A — BLDG: MEZZANINE MTD: WALL

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
M	AHU-1	60	3	9.42			1				2	11.67			70	3	AHU-1	H
M	FAN		*		9.42								11.67				* STRIP HEATER	H
M	25 HP					9.42								11.67			35 kW	H
M	AHU-3	70	3	11.08			3				4	15.00			80	3	AHU-3	H
M	FAN		*		11.08								15.00				* STRIP HEATER	H
M	30 HP					11.08								15.00			45 kW	H
	SPACE						5				6	14.40			90	3	P-1	M
													14.40				* PUMP 40 HP	M
	SPACE						7				8	14.40			90	3	P-2	M
													14.40				* PUMP 40 HP	M
	SPACE						9				10				90	3	P-3 (STANDBY)	M
																	* PUMP 40 HP	M
	SPACE						11				12						SPACE	
T	TXMNA	900	3	83.01			13				14	101.00			400	3	HMNMC	T
T	GE SPECTRA RMS				83.97								101.00				GE SPECTRA RMS	T
T	w/MVT (LSIT)					84.84								101.00			w/MVT (LSIT)	T
	TOTAL CONNECTED KVA			103.51	104.47	105.34						156.48	156.48	156.48				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	26.67	26.67	26.67
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:	52.91	52.91	52.91
T	XFRMR./PANEL/ATS:	184.01	184.97	185.84

	PHASE A	PHASE B	PHASE C
TOTAL KVA	263.59	264.55	265.42
TOTAL AMPS	951.58	955.04	958.18

ACTUAL BREAKER AMPS 956.09
TOTAL KVA 793.55

* SEE MECH SCH FOR CB TYPE
MCB SHALL BE MOLDED CASE SWITCH
ALL CB's SHALL BE BOLT-IN

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NEW - NORMAL BRANCH

PANEL: H1NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: TAX COLL 1st FLOOR MTD: FLUSH

Section 3 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
H	VAV-2-14	15	1	3.00			85				86	2.00			15	1	VAV-2-2	H
H	VAV-2-20	15	1		3.00		87				88		2.00		15	1	VAV-2-7	H
H	VAV-2-21	15	1			3.00	89				90			2.00	15	1	VAV-2-24	H
H	VAV-2-22	15	1	3.00			91				92	3.50			20	2	VAV-2-34	H
H	VAV-2-29	15	1		3.00		93				94		3.50					H
H	VAV-2-33	15	1			3.00	95				96			3.00	15	1	VAV-2-36	H
H	VAV-2-37	20	1	4.00			97				98	3.05			20	3	SIZZOR LIFT	M
H	VAV-2-38	20	2		3.50		99				100		3.05				7-1/2 HP	M
H						3.50	101				102			3.05				M
	SPACE						103				104	3.05			20	3	SIZZOR LIFT	M
H	VAV-1-21	15	1		1.00		105				106		3.05				7-1/2 HP	M
H	VAV-2-12	15	1			1.00	107				108			3.05				M
	SPACE						109				110						SPACE	
	SPACE						111				112						SPACE	
	SPACE						113				114						SPACE	
L	Clexa P-1	20	1	2.70			115				116	2.88			20	2	Clexb P-1	L
L	Clexa P-2	20	1		2.70		117				118		2.88				Clexb P-2	L
L	Clexa P-3	20	1			2.70	119				120			3.36	20	2	Clexb P-3	L
L	Clexa P-4	20	1	2.70			121				122	3.36					Clexb P-4	L
L	Clexa P-5	20	1		2.70		123				124		3.12		20	2	Clexb P-5	L
L	Clexa P-6	20	1			2.70	125				126			3.12			Clexb P-6	L
	TOTAL CONNECTED KVA			15.40	15.90	15.90						17.83	17.59	17.57				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	111.50	112.00	111.50
L	LIGHTING:	30.30	29.50	30.16
R	RECEPTACLE:	0.00	0.00	0.00
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	6.86	6.86	6.86
T	TRANSFORMER/ATS/PANEL:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	148.66	148.35	148.51
TOTAL AMPS	536.68	535.58	536.15

ACTUAL BREAKER AMPS 536.78
TOTAL KVA 445.53

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NEW - NORMAL BRANCH

PANEL: H2NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 600/3 — BLDG: FLUSH MTD: TRAFFIC 2nd FLOOR

Section 3 of 3

S	REMARKS	BRKR AMPS	#	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	#	REMARKS	S
H	VAV-4-11	25	1	5.00			85				86	5.00			25	1	VAV-4-24	H
H	VAV-4-12	25	1		5.00		87				88		5.00		25	1	VAV-4-26	H
H	VAV-4-16	25	1			5.00	89				90			5.00	25	1	VAV-4-30	H
H	VAV-3-6	20	2	3.50			91				92	4.50			25	2	VAV-4-6	H
H					3.50		93				94		4.50					H
H	VAV-3-24	20	2			3.50	95				96			3.50	20	1	VAV-3-32	H
H				3.50			97				98	3.00			15	1	VAV-4-27	H
H	VAV-4-8	20	2		3.50		99				100		4.50		25	2	VAV-4-7	H
H						3.50	101				102			4.50				H
	SPACE						103				104						SPACE	
	SPACE						105				106	1.00			15	1	VAV-3-21	H
	SPACE						107				108		5.00		30	2	VAV-3-25	H
	SPACE						109				110	5.00					SPACE	H
	SPACE						111				112		4.08		20	1	C2exa P-1	L
	SPACE						113				114			3.77	20	1	C2exa P-2	L
	SPACE						115				116						SPACE	
	SPACE						117				118						SPACE	
	SPACE						119				120						SPACE	
	SPACE						121				122						SPACE	
	SPACE						123				124						SPACE	
	SPACE						125				126						SPACE	
	TOTAL CONNECTED KVA			12.00	12.00	12.00						17.50	19.08	21.77				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	104.00	101.00	104.50
L	LIGHTING:	13.84	19.11	18.61
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	TRANSFORMER/ATS/PANEL:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	117.84	120.11	123.11
TOTAL AMPS	425.40	433.60	444.45

ACTUAL BREAKER AMPS 435.00
TOTAL KVA 361.05

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NEW - NORMAL BRANCH

PANEL: HMNMC

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 400/3 — BLDG: MEZZANINE MTD: WALL

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
M	AHU-2	80	3	14.40			1				2	11.66			70	3	AHU-4	H
M	FAN		*		14.40								11.66				* STRIP HEATER	H
M	40 HP					14.40								11.66			35 KW	H
M	AHU-4	60	3	9.42			3				4	15.00			80	3	AHU-5	H
M	FAN		*		9.42								15.00				* STRIP HEATER	H
M	25 HP					9.42								15.00			45 kW	H
M	AHU-5	60	3	9.42			5				6	10.00			45	3	CWH-1	W
M	FAN		*		9.42								10.00				*	W
M	25 HP					9.42								10.00				W
	SPACE						7				8						SPACE	
	SPACE						9				10						SPACE	
	SPACE						11				12						SPACE	
	SPACE						13				14	25.00			140	3	AHU-2	H
													25.00				* STRIP HEATER	H
														25.00			75 kW	H
	TOTAL CONNECTED KVA			33.24	33.24	33.24						61.66	61.66	61.66				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	51.66	51.66	51.66
L	LIGHTING:	0.00	0.00	0.00
R	RECEPTACLE:	0.00	0.00	0.00
W	WATER HEATER:	12.50	12.50	12.50
M	MOTORS/HVAC/FAN:	36.84	36.84	36.84
T	XFRMR./PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	101.00	101.00	101.00
TOTAL AMPS	364.62	364.62	364.62

ACTUAL BREAKER AMPS 365.06
TOTAL KVA 303.00

* SEE MECH SCH FOR CB TYPE

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NEW - NORMAL BRANCH

PANEL: H3NA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: N/A MLO: 400/3 — BLDG: MECH 3rd FLOOR MTD: FLUSH

Section 1 of 2

| S | REMARKS | BRKR AMPS | P | KVA A | KVA B | KVA C | CIR NO. | PHASE A | PHASE B | PHASE C | CIR NO. | KVA A | KVA B | KVA C | BRKR AMPS | P | REMARKS | S

NEW - NORMAL BRANCH

PANEL: LMDPA

Section 1 of 1

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: 1000/3 MLO: N/A | BLDG: MEZZANINE MTD: SURFACE

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
T	L1NA	200	3	11.41			1				2	9.81			200	3	L2NA	T
T	GE SPECTRA RMS				11.27		3				4		10.02				GE SPECTRA RMS	T
T	BOLT-IN					11.14	5				6			10.68			BOLT-IN	T
T	L1NB	200	3	11.15			7				8	11.29			200	3	L2NB	T
T	GE SPECTRA RMS				11.47		9				10		11.59				GE SPECTRA RMS	T
T	BOLT-IN					11.75	11				12			11.05			BOLT-IN	T
T	L1NC	200	3	22.40			13				14	14.42			200	3	L2NC	T
T	GE SPECTRA RMS				22.94		15				16		14.28				GE SPECTRA RMS	T
T	BOLT-IN					23.47	17				18			14.39			BOLT-IN	T
T	L3NA	200	3	2.58			19				20						SPACE	T
T	GE SPECTRA RMS				2.40		21				22							T
T	BOLT-IN					2.16	23				24							T
	SPACE						25				26						SPACE	
							27				28							
							29				30							
	SPACE						31				32						SPACE	
							33				34							
							35				36							
	SPACE						37				38						SPACE	
							39				40							
							41				42							
	TOTAL CONNECTED KVA			47.54	48.08	48.52						35.47	35.89	36.12				

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:	0.00	0.00	0.00
T	XFRMR./PANEL/ATS:	83.01	83.97	84.64

	PHASE A	PHASE B	PHASE C
TOTAL KVA	83.01	83.97	84.64
TOTAL AMPS	691.75	699.75	705.33

ACTUAL BREAKER AMPS	698.94
TOTAL KVA	251.62

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NEW - NORMAL BRANCH

PANEL: L1NB

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: TAX COLL 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	VET AFFAIR	20	1	0.90			43				44	0.72			20	1	VET AFFAIR	R
R	VET AFFAIR	20	1		0.72		45				46		0.72		20	1	VET AFFAIR	R
R	VET AFFAIR	20	1			0.72	47				48			0.72	20	1	VET AFFAIR	R
R	VET AFFAIR	20	1	0.72			49				50	1.20			20	1	VET AFFAIR	R
R	VET AFFAIR	20	1		0.72		51				52		1.20		20	1	VET AFFAIR	R
R	VET AFFAIR	20	1			0.72	53				54			1.20	20	1	TAX COLL	R
R	ENT	20	1	0.90			55				56	0.70			20	1	EDF's	M
R	ENT	20	1		0.90		57				58		0.70		20	1	EDF's	M
R	ENT	20	1			0.90	59				60			0.53	15	1	EF-1-3	M
R	VET AFFAIR	20	1	0.60			61				62	0.53			25	1	EF-2-1	M
R	TAX COLL	20	1		0.60		63				64		0.60		20	1	TV TAX COLL	M
M	W/D	20	1			0.86	65				66			0.60	20	1	TAX COLL	R
M	TAX COLL	20	1	0.35			67				68	0.36			20	1	TAX COLL	R
T	AUTO DOOR	20	1		0.60		69				70		0.36		20	1	TAX COLL	R
T	AUTO DOOR	20	1			0.60	71				72			0.60	20	1	TAX COLL	R
	SPACE						73				74				20	1	SPARE	
	SPACE						75				76				20	1	SPARE	
	SPACE						77				78				20	1	SPARE	
	SPACE						79				80				20	1	SPARE	
	SPACE						81				82				20	1	SPARE	
	SPACE						83				84				20	1	SPARE	
	TOTAL CONNECTED KVA			3.47	3.54	3.80						3.51	3.58	3.65				

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:	9.40	9.40	9.54
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	1.75	1.48	1.61
T	XFRMR/PANEL/ATS:	0.00	0.60	0.60

	PHASE A	PHASE B	PHASE C
TOTAL KVA	11.15	11.47	11.75
TOTAL AMPS	92.93	95.61	97.93

ACTUAL BREAKER AMPS	95.49
TOTAL KVA	34.38

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NEW - NORMAL BRANCH

PANEL: L1ND

Section 1 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 125/3 | BLDG: SUPP ELEC 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	SUPP ELEC	20	1	0.72			1				2	0.72			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		0.72		3				4		0.72		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			0.72	5				6			0.72	20	1	SUPP ELEC	R
R	SUPP ELEC	20	1	0.72			7				8	0.72			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		0.72		9				10		0.72		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			0.72	11				12			0.72	20	1	SUPP ELEC	R
R	SUPP ELEC	20	1	0.72			13				14	0.72			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		0.72		15				16		0.72		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			0.72	17				18			0.72	20	1	SUPP ELEC	R
R	SUPP ELEC	20	1	0.72			19				20	0.72			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		0.72		21				22		0.72		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			0.72	23				24			0.70	20	1	EDF	M
R	UPS	20	1	1.50			25				26	0.60			20	1	SUPP ELEC	R
R	UPS	20	1		1.50		27				28		0.53		15	1	EF-2-3	M
R	IDF 1094	20	1			1.50	29				30			0.60	20	1	SUPP ELEC	R
	SPARE	20	1				31				32						SPACE	
	SPARE	20	1				33				34						SPACE	
	SPARE	20	1				35				36						SPACE	
	SPARE	20	1				37				38						SPACE	
	SPARE	20	1				39				40						SPACE	
	SPARE	20	1				41				42						SPACE	
	TOTAL CONNECTED KVA			4.38	4.38	4.38						3.48	3.41	3.46				

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NEW - NORMAL BRANCH

PANEL: L1NA

Section 1 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: PROP APP 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	PROP APP	20	1	0.72			1				2	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		3				4		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	5				6			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			7				8	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		9				10		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	11				12			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			13				14	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		15				16		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	17				18			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			19				20	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		21				22		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	23				24			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			25				26	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		27				28		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	29				30			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			31				32	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		33				34		0.72		20	1	PROP APP	R
R	PROP APP	20	1			0.72	35				36			0.72	20	1	PROP APP	R
R	PROP APP	20	1	0.72			37				38	0.54			20	1	PROP APP	R
R	PROP APP	20	1		0.72		39				40		0.54		20	1	PROP APP	R
R	PROP APP	20	1			0.72	41				42			0.54	20	1	PROP APP	R
	TOTAL CONNECTED KVA			5.04	5.04	5.04						4.86	4.86	4.86				

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NEW - NORMAL BRANCH

PANEL: L1NC

Section 1 of 3

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: BLDR SVCS 1st FLOOR MTD: N/A

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	ADMIN CHAMBS	20	1	0.72			1				2	0.72			20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1		0.72		3				4		0.72		20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1			0.72	5				6			0.72	20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1	0.72			7				8	0.72			20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1		0.72		9				10		0.72		20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1			0.72	11				12			0.72	20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1	0.72			13				14	0.72			20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1		0.72		15				16		0.72		20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1			0.72	17				18			0.72	20	1	ADMIN CHAMBS	R
R	BLDR SVCS	20	1	0.72			19				20	0.90			20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		21				22		0.72		20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	23				24			0.72	20	1	BLDR SVCS	R
R	BLDR SVCS	20	1	0.72			25				26	0.72			20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		27				28		0.72		20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	29				30			0.72	20	1	BLDR SVCS	R
R	BLDR SVCS	20	1	0.72			31				32	0.72			20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		33				34		0.72		20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	35				36			0.72	20	1	BLDR SVCS	R
R	BLDR SVCS	20	1	0.90			37				38	0.72			20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		39				40		0.72		20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	41				42			0.72	20	1	BLDR SVCS	R
	TOTAL CONNECTED KVA			5.22	5.04	5.04						5.22	5.04	5.04				

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NEW - NORMAL BRANCH

PANEL: L1ND

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 125/3 | BLDG: SUPP ELEC 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
	SPACE						43				44						SPACE	
	SPACE						45				46						SPACE	
	SPACE						47				48						SPACE	
	SPACE						49				50						SPACE	
	SPACE						51				52						SPACE	
	SPACE						53				54						SPACE	
	SPACE						55				56						SPACE	
	SPACE						57				58						SPACE	
	SPACE						59				60						SPACE	
	SPACE						61				62						SPACE	
	SPACE						63				64						SPACE	
	SPACE						65				66						SPACE	
	SPACE						67				68						SPACE	
	SPACE						69				70						SPACE	
	SPACE						71				72						SPACE	
	SPACE						73				74						SPACE	
	SPACE						75				76						SPACE	
	SPACE						77				78						SPACE	
	SPACE						79				80						SPACE	
	SPACE						81				82						SPACE	
	SPACE						83				84						SPACE	
	TOTAL CONNECTED KVA			0.00	0.00	0.00						0.00	0.00	0.00				

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:	5.70	5.26	5.17
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.00	0.66	0.88
T	XFRMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	5.70	5.92	6.05
TOTAL AMPS	47.46	49.34	50.41

ACTUAL BREAKER AMPS	49.07
TOTAL KVA	17.67

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NEW - NORMAL BRANCH

PANEL: L1NB

Section 1 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: TAX COLL 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	TAX COLL	20	1	0.72			1				2	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		3				4		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	5				6			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			7				8	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.90		9				10		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	11				12			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			13				14	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		15				16		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	17				18			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			19				20	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		21				22		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	23				24			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			25				26	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		27				28		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	29				30			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			31				32	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		33				34		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.72	35				36			0.72	20	1	TAX COLL	R
R	TAX COLL	20	1	0.72			37				38	0.72			20	1	TAX COLL	R
R	TAX COLL	20	1		0.72		39				40		0.72		20	1	TAX COLL	R
R	TAX COLL	20	1			0.90	41				42			0.72	20	1	TAX COLL	R
	TOTAL CONNECTED KVA			5.04	5.22	5.22						5.04	5.04	5.04				

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NEW - NORMAL BRANCH

PANEL: L1NA

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: PROP APP 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	PROP APP	20	1	0.54			43				44	0.72			20	1	PROP APP	R
R	PROP APP	20	1		0.72		45				46		0.72		20	1	PROP APP	R
M	EDF	20	1			0.70	47				48			1.20	20	1	PROP APP	R
R	TV PROP APP	20	1	0.60			49				50	0.36			20	1	PROP APP	R
R	TV PROP APP	20	1		0.60		51				52		0.60		20	1	PROP APP	R
R	TV PROP APP	20	1			0.60	53				54			0.60	20	1	PROP APP	R
T	BLOCK HEATER	20	2	1.20			55	1.50			56		1.50		20	1	1DF 1012	R
T					1.20		57		1.50		58			1.50	20	1	1DF 1012	R
T	CHARGER	20	1			0.60	59			1.50	60				20	1	1DF 1012	R
M	EF-1-1	15	1	0.53			61	0.86			62				20	1	W/D	M
M	EF-1-2	15	1		0.53		63		1.50		64				20	1	UPS	R
R	PROP APP	20	1			0.54	65			1.50	66				20	1	UPS	R
	SPACE						67				68				20	1	SPARE	
	SPACE						69				70				20	1	SPARE	
	SPACE						71				72				20	1	SPARE	
	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			2.87	3.05	2.44						3.91	4.20	4.80				

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:	8.60	9.41	9.67
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	1.61	0.66	0.88
T	XFRMR/PANEL/ATS:	1.20	1.20	0.60

	PHASE A	PHASE B	PHASE C
TOTAL KVA	11.41	11.27	11.14
TOTAL AMPS	95.05	93.92	92.85

ACTUAL BREAKER AMPS	93.94
TOTAL KVA	33.82

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NEW - NORMAL BRANCH

PANEL: L1NC

Section 2 of 3

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: BLDR SVCS 1st FLOOR MTD: N/A

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	BLDR SVCS	20	1	0.72			43				44	0.72			20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		45				46		0.72		20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	47				48			0.72	20	1	BLDR SVCS	R
R	ADMIN CHAMBS	20	1	0.54			49				50	0.35			20	1	EDF	M
R	ADMIN CHAMBS	20	1		0.54		51				52		0.70		20	1	EDF's	M
R	ADMIN CHAMBS	20	1			0.54	53				54			0.60	20	1	BLDR SVCS	R
L	BLDR SVCS	20	1	0.27			55				56	0.60			20	1	BLDR SVCS	R
L	LDCN1A DMN - 1&3	20	2		0.99		57				58		0.90		20	1	BLDR SVCS	R
L	LDCN1A DMN - 2&4					1.26	59				60			0.90	20	1	BLDR SVCS	R
L	ADMIN CHAMBS	20	1	0.18			61				62	1.20			20	1	MPP	R
M	EF-2-2 1/6 HP	15	1		0.53		63				64		0.60		20	2	MPP	R
R	ADMIN CHAMBS	20	1			1.20	65				66			0.60				R
R	BLDR SVCS	20	1	1.20			67				68	1.20			20	1	MPP	R
R	ADMIN CHAMBS	20	1		0.60		69				70		0.60		20	2	MPP	R
R	BLDR SVCS	20	1			1.20	71				72			0.60				R
R	BLDR SVCS	20	1	1.20			73				74	0.35			20	1	BLDR SVCS	M
R	BLDR SVCS	20	1		0.60		75				76		0.60		20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1			1.20	77				78				20	1	SPARE	R
							79				80	5.70			100	3	L1ND	T
							81				82		5.92					T
							83				84			6.06				T
	TOTAL CONNECTED KVA			4.11	3.95	6.12						10.12	10.04	9.48				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.56	1.24	1.58
R	RECEPTACLE:	14.36	13.48	14.36
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	1.78	2.31	1.48
T	TRANSFORMER/ATS/PANEL:	5.70	5.92	6.06

	PHASE A	PHASE B	PHASE C
TOTAL KVA	22.40	22.94	23.47
TOTAL AMPS	186.70	191.19	195.60

ACTUAL BREAKER AMPS	191.16
TOTAL KVA	68.82

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NEW - NORMAL BRANCH

PANEL: L1NC

Section 3 of 3

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: BLDR SVCS 1st FLOOR MTD: N/A

S	REMARKS	BRKR AMPS	P	A	B	C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	A	B	C	BRKR AMPS	P	REMARKS	S
R	ADMIN CHAMBS	20	1	1.20			85				86	1.20			20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1		1.20		87				88		1.20		20	1	ADMIN CHAMBS	R
R	ADMIN CHAMBS	20	1			0.36	89				90			1.20	20	1	ADMIN CHAMBS	R
R	IDF 1070	20	1	1.50			91		

NEW - NORMAL BRANCH

PANEL: L2NA

Section 1 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: LT/GIS 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	HR/RM	20	1	0.72			1				2	0.72			20	1	HR/RM	R
R	HR/RM	20	1		0.72		3				4		0.72		20	1	HR/RM	R
R	HR/RM	20	1			0.72	5				6			0.72	20	1	HR/RM	R
R	HR/RM	20	1	0.72			7				8	0.72			20	1	HR/RM	R
R	HR/RM	20	1		0.72		9				10		0.72		20	1	HR/RM	R
R	HR/RM	20	1			0.72	11				12			0.72	20	1	HR/RM	R
R	HR/RM	20	1	0.72			13				14	0.72			20	1	HR/RM	R
R	HR/RM	20	1		0.72		15				16		0.72		20	1	HR/RM	R
R	HR/RM	20	1			0.72	17				18			0.72	20	1	HR/RM	R
R	HR/RM	20	1	0.72			19				20	0.72			20	1	PURCH	R
R	HR/RM	20	1		0.72		21				22		0.72		20	1	PURCH	R
R	HR/RM	20	1			0.72	23				24			0.72	20	1	PURCH	R
R	HR/RM	20	1	0.72			25				26	0.90			20	1	PURCH	R
R	HR/RM	20	1		1.80		27				28		0.72		20	1	PURCH	R
R	HR/RM	20	1			1.80	29				30			0.72	20	1	PURCH	R
R	PARKS/REC	20	1	0.72			31				32	0.70			20	1	EDH's	M
R	PARKS/REC	20	1		0.72		33				34		0.54		20	1	PARKS/REC	R
R	PARKS/REC	20	1			0.72	35				36			0.54	20	1	PARKS/REC	R
R	LT/GIS	20	1	0.72			37				38	0.72			20	1	LT/GIS	R
R	LT/GIS	20	1		0.72		39				40		0.72		20	1	LT/GIS	R
R	LT/GIS	20	1			0.72	41				42			0.72	20	1	LT/GIS	R
	TOTAL CONNECTED KVA			5.04	6.12	6.12						5.20	4.86	4.86				

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:	8.94	9.58	9.60
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.88	0.44	1.08
T	XFRMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	9.81	10.02	10.68
TOTAL AMPS	81.79	83.51	88.97

ACTUAL BREAKER AMPS 84.76
TOTAL KVA 30.51

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NEW - NORMAL BRANCH

PANEL: L2NC

Section 1 of 3

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: PWD/ENG 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	CODE ENF	20	1	0.72			1				2	0.72			20	1	CODE ENF	R
R	CODE ENF	20	1		0.72		3				4		0.72		20	1	CODE ENF	R
R	CODE ENF	20	1			0.72	5				6			0.72	20	1	CODE ENF	R
R	PLAN/ZONE	20	1	0.90			7				8	0.90			20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1		0.72		9				10		0.72		20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1			0.72	11				12			0.72	20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1	0.72			13				14	0.72			20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1		0.72		15				16		0.72		20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1			0.72	17				18			0.72	20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1	0.90			19				20	0.90			20	1	PLAN/ZONE	R
R	PLAN/ZONE	20	1		0.72		21				22		0.72		20	1	PWD/ENG	R
R	PLAN/ZONE	20	1			0.72	23				24			0.72	20	1	PWD/ENG	R
R	PWD/ENG	20	1	0.72			25				26	0.72			20	1	PWD/ENG	R
R	PWD/ENG	20	1		0.72		27				28		0.72		20	1	PWD/ENG	R
R	PWD/ENG	20	1			0.72	29				30			0.72	20	1	PWD/ENG	R
R	PWD/ENG	20	1	0.72			31				32	0.70			20	1	PWD/ENG	R
R	PWD/ENG	20	1		0.72		33				34		0.72		20	1	PWD/ENG	R
R	PWD/ENG	20	1			0.72	35				36			0.72	20	1	PWD/ENG	R
R	PWD/ENG	20	1	0.72			37				38	0.72			20	1	PWD/ENG	R
R	PWD/ENG	20	1		0.72		39				40		1.80		20	1	PWD/ENG	R
R	PWD/ENG	20	1			0.72	41				42			1.80	20	1	PWD/ENG	R
	TOTAL CONNECTED KVA			5.40	5.04	5.04						5.38	6.12	6.12				

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NEW - NORMAL BRANCH

PANEL: L3NA

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: PWD/ENG 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
	SPARE	20	1				43				44				20	1	SPARE	R
	SPARE	20	1				45				46				20	1	SPARE	R
	SPARE	20	1				47				48				20	1	SPARE	R
	SPARE	20	1				49				50				20	1	SPARE	R
	SPARE	20	1				51				52				20	1	SPARE	R
	SPARE	20	1				53				54				20	1	SPARE	R
	SPARE	20	1				55				56				20	1	SPARE	R
	SPARE	20	1				57				58				20	1	SPARE	R
	SPARE	20	1				59				60				20	1	SPARE	R
	SPARE	20	1				61				62				20	1	SPARE	R
	SPARE	20	1				63				64				20	1	SPARE	R
	SPARE	20	1				65				66				20	1	SPARE	R
	SPARE	20	1				67				68				20	1	SPARE	R
	SPARE	20	1				69				70				20	1	SPARE	R
	SPARE	20	1				71				72				20	1	SPARE	R
	SPARE						73				74						SPARE	
	SPARE						75				76						SPARE	
	SPARE						77				78						SPARE	
	SPARE						79				80						SPARE	
	SPARE						81				82						SPARE	
	SPARE						83				84						SPARE	
	TOTAL CONNECTED KVA																	

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NEW - NORMAL BRANCH

PANEL: L3NA

Section 1 of 2

A.I.C.: 65,000 VOLTS: 277/480/60/3 | MCB: N/A MLO: 125/3 | BLDG: TAX COLL 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
L	LTG	20	1	3.21							2	1.74			20	3	HDCE1A-DME1	L
L	LTG	20	1		2.83						4		1.74				HDCE1A-DME2	L
L	LTG	20	1			3.22					6			0.87			HDCE1A-DME3-6	L
	SPARE	20	1								8				20	1	SPARE	
	SPARE	20	1								10				20	1	SPARE	
	SPARE	20	1								12				20	1	SPARE	
	SPACE										14						SPACE	
	SPACE										16						SPACE	
	SPACE										18						SPACE	
	SPACE										20						SPACE	
	SPACE										22						SPACE	
	SPACE										24						SPACE	
	SPACE										26						SPACE	
	SPACE										28						SPACE	
	SPACE										30						SPACE	
	SPACE										32						SPACE	
	SPACE										34						SPACE	
	SPACE										36						SPACE	
	SPACE										38						SPACE	
	SPACE										40						SPACE	
	SPACE										42						SPACE	
	TOTAL CONNECTED KVA			3.21	2.83	3.22						1.74	1.74	0.87				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	6.18	5.70	5.11
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	6.18	5.70	5.11
TOTAL AMPS	22.32	20.59	18.45

ACTUAL BREAKER AMPS 20.48
TOTAL KVA 17.00

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NEW - NORMAL BRANCH

PANEL: L2NA

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: LT/GIS 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	LT/GIS	20	1	0.72			43				44	0.72			20	1	LT/GIS	R
R	LT/GIS	20	1		0.72		45				46		0.72		20	1	LT/GIS	R
R	LT/GIS	20	1			0.72	47				48			0.72	20	1	LT/GIS	R
R	LT/GIS	20	1	0.72			49				50	0.72			20	1	LT/GIS	R
R	LT/GIS	20	1		0.72		51				52		0.72		20	1	LT/GIS	R
R	LT/GIS	20	1			0.72	53				54			0.72	20	1	LT/GIS	R
R	HR/RM	20	1	0.60			55				56	1.20			20	1	TOILETS	R
R	HR/RM	20	1		1.20		57				58		0.70		20	1	EDF	R
R	HR/RM	20	1			0.60	59				60			0.72	20	1	CORR	R
	SPARE	20	1				61				62						SPACE	
	SPARE	20	1				63				64		0.35		20	1	HR/RM	M
	SPARE	20	1				65				66			0.60	20	1	LT/GIS	R
	SPARE	20	1				67				68	0.60			20	1	LT/GIS	R
	SPARE	20	1				69				70						SPACE	
	SPARE	20	1				71				72			0.86	20	1	HR/RM	M
	SPACE						73				74						SPACE	
	SPACE						75				76						SPACE	
	SPACE						77				78						SPACE	
	SPACE						79				80						SPACE	
	SPACE						81				82						SPACE	
	SPACE						83				84						SPACE	
	TOTAL CONNECTED KVA			2.04	2.64	2.04						3.12	2.49	3.62				

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:	13.34	12.88	13.36
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	1.08	1.40	0.44
T	TRANSFORMER/ATS/PANEL:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	14.42	14.28	14.39
TOTAL AMPS	120.20	118.99	119.92

ACTUAL BREAKER AMPS 119.70
TOTAL KVA 43.09

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NEW - NORMAL BRANCH

PANEL: L2NB

Section 1 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: ADMIN 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	BLDR SVCS	20	1	0.72			1				2				20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		3				4			0.72	20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	5				6				20	1	BLDR SVCS	R
R	BLDR SVCS	20	1	0.72			7				8				20	1	BLDR SVCS	R
R	BLDR SVCS	20	1		0.72		9				10				20	1	BLDR SVCS	R
R	BLDR SVCS	20	1			0.72	11				12				20	1	BLDR SVCS	R
R	BLDR SVCS	20	1	0.72			13				14				20	1	ADMIN	R
R	BLDR SVCS	20	1		0.90		15				16				20	1	ADMIN	R
R	BLDR SVCS	20	1			0.90	17				18			0.72	20	1	ADMIN	R
R	ADMIN	20	1	0.72			19				20	0.72			20	1	ADMIN	R
R	ADMIN	20	1		0.72		21				22		0.72		20	1	ADMIN	R
R	ADMIN	20	1			0.72	23				24			0.72	20	1	ADMIN	R
R	ADMIN	20	1	0.72			25				26	0.90			20	1	ADMIN	R
R	ADMIN	20	1		0.72		27				28		0.72		20	1	ADMIN	R
R	ADMIN	20	1			0.70	29				30			0.72	20	1	ADMIN	R
R	ADMIN	20	1	0.72			31				32	0.72			20	1	ADMIN	R
R	ADMIN	20	1		0.72		33				34		0.72		20	1	ADMIN	R
R	ADMIN	20	1			0.72	35				36			0.72	20	1	ADMIN	R
R	ADMIN	20	1	0.72			37				38	0.72			20	1	ADMIN	R
R	ADMIN	20	1		0.72		39				40		0.72		20	1	ADMIN	R
R	ADMIN	20	1			0.90	41				42			0.72	20	1	ADMIN	R
	TOTAL CONNECTED KVA			5.04	5.22	5.38						5.22	5.04	5.04				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.68	0.00	0.00
R	RECEPTACLE:	9.91	10.51	10.61
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.68	1.08	0.44
T	XFRMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	11.24	11.59	11.05
TOTAL AMPS	93.68	96.62	92.06

ACTUAL BREAKER AMPS 94.12
TOTAL KVA 33.88

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NEW - NORMAL BRANCH

PANEL: L2NB

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: ADMIN 2nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	ADMIN	20	1	0.72			43				44	0.72			20	1	ADMIN	R
R	ADMIN	20	1		0.72		45				46		0.72		20	1	ADMIN	R
R	ADMIN	20	1			0.72	47				48			0.72	20	1	ADMIN	R
R	ADMIN	20	1	0.90			49				50	0.72			20	1	BUDGET	R
R	ADMIN	20	1		0.90		51				52		0.72		20	1	BUDGET	R
R	ADMIN	20	1			0.90	53				54			0.72	20	1	BUDGET	R
R	ADMIN	20	1	0.54			55				56	0.90			20	1	BUDGET	R
R	ADMIN	20	1		1.20		57				58		0.72		20	1	BUDGET	R
R	ADMIN	20	1			1.20	59				60			0.72	20	1	BUDGET	R
R	ADMIN	20	1	0.60			61				62	0.60			20	1	ADMIN	R
R	ADMIN	20	1		0.60		63				64		0.60		20	1	ADMIN	R
R	ADMIN	20	1			0.60	65				66			0.60	20	1	ADMIN	R
R	ADMIN	20	1	1.20			67				68	0.83			15	1	ST-3-1	M
R	ADMIN	20	1		1.20		69				70		0.86		20	1	W/D	M
R	ADMIN	20	1			1.20	71				72			0.35	20	1	ADMIN	M
	SPACE						73				74				20	1	SPARE	
	SPACE						75				76				20	1	SPARE	
	SPACE						77				78				20	1	SPARE	
	SPACE						79				80				20	1	SPARE	
	SPACE						81				82				20	1	SPARE	
	SPACE						83				84				20	1	SPARE	
	TOTAL CONNECTED KVA			3.96	4.62	4.62						3.47	3.62	3.11				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.68	0.00	0.00
R	RECEPTACLE:	9.91	10.51	10.61
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.68	1.08	0.44
T	XFRMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	11.24	11.59	11.05
TOTAL AMPS	93.68	96.62	92.06

ACTUAL BREAKER AMPS 94.12
TOTAL KVA 33.88

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NEW - NORMAL BRANCH

PANEL: L3NA

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: MECH 3nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	CORR	20	1	0.90			1				2	0.18			20	1	MEZZANINE	R
R	CORR	20	1		0.72		3				4		0.18		20	1	MEZZANINE	R
M	EF-5-1	15	1			0.53	5				6			1.50	20	1	IDF 3001	R
	SPARE	20	1	0.72			7				8	1.50			20	1	UPS	R
	SPARE	20	1		0.72		9				10		1.50		20	1	UPS	R
	SPARE	20	1			0.72	11				12			1.50	20	1	SPARE	
	SPARE	20	1	0.72			13				14				20	1	SPARE	
	SPARE	20	1		0.72		15				16				20	1	SPARE	
	SPARE	20	1			0.72	17				18				20	1	SPARE	
	SPARE	20	1	0.72			19				20				20	1	SPARE	
	SPARE	20	1		0.72		21				22				20	1	SPARE	
	SPARE	20	1			0.72	23				24				20	1	SPARE	
	SPARE	20	1	0.72			25				26				20	1	SPARE	
	SPARE	20	1		0.72		27				28				20	1	SPARE	
	SPARE	20	1			0.72	29				30				20	1	SPARE	
	SPARE	20	1	0.72			31				32				20	1	SPARE	
	SPARE	20	1		0.72		33				34				20	1	SPARE	
	SPARE	20	1			0.72	35				36				20	1	SPARE	
	SPARE	20	1	0.72			37				38				20	1	SPARE	
	SPARE	20	1		0.72		39				40				20	1	SPARE	
	SPARE	20	1			0.72	41				42				20	1	SPARE	
	TOTAL CONNECTED KVA			0.90	0.72	0.53						1.68	1.68	1.50				

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NEW - LIFE SAFETY BRANCH

PANEL: H1EA

Section 1 of 1

A.I.C.: 65,000 VOLTS: 277/480/60/3 | MCB: N/A MLO: 125/3 | BLDG: TAX COLL 1st FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
L	LTG	20	1	3.21							2	1.74			20	3	HDCE1A-DME1	L
L	LTG	20	1		2.83						4		1.74				HDCE1A-DME2	L
L	LTG	20	1			3.22					6			0.87			HDCE1A-DME3-6	L
	SPARE	20	1								8				20	1	SPARE	
	SPARE	20	1								10				20	1	SPARE	
	SPARE	20	1								12				20	1	SPARE	
	SPACE										14						SPACE	
	SPACE										16						SPACE	
	SPACE										18						SPACE	
	SPACE										20						SPACE	
	SPACE										22						SPACE	
	SPACE										24						SPACE	
	SPACE										26						SPACE	
	SPACE										28						SPACE	
	SPACE										30						SPACE	
	SPACE										32						SPACE	
	SPACE										34						SPACE	
	SPACE										36						SPACE	
	SPACE										38						SPACE	
	SPACE										40						SPACE	
	SPACE										42						SPACE	
	TOTAL CONNECTED KVA			3.21	2.83	3.22						1.74	1.74	0.87				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	6.18	5.70	5.11
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	6.18	5.70	5.11
TOTAL AMPS	22.32	20.59	18.45

ACTUAL BREAKER AMPS 20.48
TOTAL KVA 17.00

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NEW - LIFE SAFETY BRANCH

PANEL: L3NA

Section 2 of 2

A.I.C.: 22,000 VOLTS: 120/208/60/3 | MCB: N/A MLO: 225/3 | BLDG: MECH 3nd FLOOR MTD: FLUSH

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
	SPARE						43				44						SPACE	
	SPARE						45				46						SPACE	
	SPARE						47				48						SPACE	
	SPARE						49				50						SPACE	
	SPARE						51				52						SPACE	
	SPARE						53				54						SPACE	
	SPARE						55				56						SPACE	
	SPARE						57				58						SPACE	
	SPARE						59				60						SPACE	
	SPARE						61				62						SPACE	
	SPARE						63				64						SPACE	
	SPARE						65				66						SPACE	
	SPARE						67				68						SPACE	
	SPARE						69				70						SPACE	
	SPARE						71			

NEW - EQUIPMENT BRANCH

PANEL: LMEA

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: 500/3 MLO: N/A — BLDG: MEZZANINE MTD: SURFACE

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
T	L2EIGA	200	3	9.72			1				2	13.29			200	3	L2EIGB	T
T	GE SPECTRA RMS				9.71								12.93				GE SPECTRA RMS	T
T	BOLT-IN					9.79								12.93			BOLT-IN	T
T	L3EIGA	125	3	5.68			3				4	7.22			125	3	L1EA	T
T	GE SPECTRA RMS				5.31								6.20				GE SPECTRA RMS	T
T	BOLT-IN					5.02								6.61			BOLT-IN	T
	SPACE						5				6						SPACE	
	SPACE						7				8						SPACE	
	SPACE						9				10						SPACE	
	SPACE						11				12						SPACE	
	SPACE						13				14						SPACE	
	TOTAL CONNECTED KVA			15.40	15.02	14.81						20.52	19.13	19.54				

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:	0.00	0.00	0.00
T	XFMR./PANEL/ATS:	35.92	34.15	34.35

	PHASE A	PHASE B	PHASE C
TOTAL KVA	35.92	34.15	34.35
TOTAL AMPS	299.33	284.58	286.25

ACTUAL BREAKER AMPS 290.06
TOTAL KVA 104.42

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NEW - NORMAL BRANCH

PANEL: L2EIGB

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 225/3 — BLDG: SERVERS 2nd FLOOR MTD: FLUSH

Section 1 of 2

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	SERVERS	20	1	1.20			1				2	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		3				4		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	5				6			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			7				8	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		9				10		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	11				12			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			13				14	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		15				16		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	17				18			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			19				20	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		21				22		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	23				24			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			25				26	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		27				28		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	29				30			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			31				32	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		33				34		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	35				36			1.20	20	1	SERVERS	R
R	SERVERS	20	1	1.20			37				38	1.20			20	1	SERVERS	R
R	SERVERS	20	1		1.20		39				40		1.20		20	1	SERVERS	R
R	SERVERS	20	1			1.20	41				42			1.20	20	1	SERVERS	R
	TOTAL CONNECTED KVA			8.40	8.40	8.40						8.40	8.40	8.40				

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NEW - EQUIPMENT BRANCH

PANEL: L1EA

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 125/3 — BLDG: BLDG SVCS 1st FLOOR MTD: FLUSH

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	PUMP, ATSA	20	1	0.38			1				2	0.60			20	1	CAR LTG GFCI CB	L
T	FACP-LOCK CB	20	1		0.60		3				4		0.30		20	1	ELEV PIT	R
R	ELEV PIT	20	1			0.30	5				6			0.60	20	1	CAR LTG GFCI CB	T
R	SUPP ELEC	20	1	1.20			7				8	1.20			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		1.20		9				10		1.20		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			1.20	11				12			1.20	20	1	SUPP ELEC	R
R	SUPP ELEC	20	1	1.20			13				14	1.20			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		1.20		15				16		1.20		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			1.20	17				18			1.20	20	1	SUPP ELEC	R
R	SUPP ELEC	20	1	1.20			19				20	0.60			20	1	SUPP ELEC	R
R	SUPP ELEC	20	1		1.20		21				22		1.20		20	1	SUPP ELEC	R
R	SUPP ELEC	20	1			1.20	23				24			1.20	20	1	SUPP ELEC	R
	SPARE	20	1				25				26	1.20			20	1	SUPP ELEC	R
	SPARE	20	1				27				28		0.60		20	1	SUPP ELEC	R
	SPARE	20	1				29				30			1.20	20	1	TELCO	R
	SPACE						31				32	1.20			20	1	TELCO	R
	SPACE						33				34				20	1	SPARE	
	SPACE						35				36				20	1	SPARE	
	SPACE						37				38						SPACE	
	SPACE						39				40						SPACE	
	SPACE						41				42						SPACE	
	TOTAL CONNECTED KVA			3.98	4.20	3.90						6.00	4.50	5.40				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.75	0.00	0.00
R	RECEPTACLE:	6.48	5.60	6.01
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.00	0.00	0.00
T	XFMR./PANEL/ATS:	0.00	0.60	0.60

	PHASE A	PHASE B	PHASE C
TOTAL KVA	7.23	6.20	6.61
TOTAL AMPS	60.26	51.64	55.10

ACTUAL BREAKER AMPS 55.67
TOTAL KVA 20.04

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NEW - EQUIPMENT BRANCH

PANEL: L2EIGB

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 225/3 — BLDG: SERVERS 2nd FLOOR MTD: FLUSH

Section 2 of 2

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	STORAGE	20	1	0.60			43				44	2.88			30	1	UPS MDF 2035	T
	SPARE	20	1				45				46		2.88		30	1	UPS MDF 2035	T
	SPARE	20	1				47				48			2.88	30	1	UPS MDF 2035	T
	SPARE	20	1				49				50						SPACE	
	SPARE	20	1				51				52						SPACE	
	SPARE	20	1				53				54						SPACE	
	SPARE	20	1				55				56						SPACE	
	SPACE						57				58						SPACE	
	SPACE						59				60						SPACE	
	SPACE						61				62						SPACE	
	SPACE						63				64						SPACE	
	SPACE						65				66						SPACE	
	SPACE						67				68						SPACE	
	SPACE						69				70						SPACE	
	SPACE						71				72						SPACE	
	SPACE						73				74						SPACE	
	SPACE						75				76						SPACE	
	SPACE						77				78						SPACE	
	SPACE						79				80						SPACE	
	SPACE						81				82						SPACE	
	SPACE						83				84						SPACE	
	TOTAL CONNECTED KVA			0.60	0.00	0.00						2.88	2.88	2.88				

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:	10.41	10.05	10.05
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.00	0.00	0.00
T	XFMR/PANEL/ATS:	2.88	2.88	2.88

	PHASE A	PHASE B	PHASE C
TOTAL KVA	13.29	12.93	12.93
TOTAL AMPS	110.72	107.73	107.73

ACTUAL BREAKER AMPS 108.72
TOTAL KVA 39.14

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NEW - EQUIPMENT BRANCH

PANEL: L2EIGA

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 225/3 — BLDG: TRAFFIC 2nd FLOOR MTD: FLUSH

Section 1 of 2

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	TRAFFIC 2nd FL	20	1	1.20			1				2	1.20			20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1		1.20		3				4		1.20		20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1			1.20	5				6			1.20	20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1	1.20			7				8	1.20			20	1	COPY	R
R	TRAFFIC 2nd FL	20	1		1.20		9				10		1.20		20	1	COPY	R
R	TRAFFIC 2nd FL	20	1			1.20	11				12			1.20	20	1	COPY	R
R	TRAFFIC 2nd FL	20	1	0.72			13				14	1.20			20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1		0.72		15				16		1.20		20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1			0.72	17				18			1.20	20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 2nd FL	20	1	1.20			19				20	1.20			20	1	SPARE	
R	TRAFFIC 2nd FL	20	1		1.20		21				22		1.20		20	1	SPARE	
R	TRAFFIC 2nd FL	20	1			1.20	23				24			1.20	20	1	SPARE	
R	TRAFFIC 2nd FL	20	1	1.20			25				26	1.20			20	1	SPARE	
R	TRAFFIC 2nd FL	20	1		1.20		27				28		1.20		20	1	SPARE	
R	TRAFFIC 2nd FL	20	1			1.20	29				30			1.20	20	1	SPARE	
R	TRAFFIC 2nd FL	20	1	1.20			31				32	0.36					SPACE	
R	TRAFFIC 2nd FL	20	1		0.60		33				34		0.54				SPACE	
R	TRAFFIC 2nd FL	20	1			0.60	35				36			0.54			SPACE	
L	ELDCE2A-DME2	20	3	0.72			37				38				20	1	SPARE	
L	ELDCE2A-DME1				0.63		39				40		0.60		20	1	TRAFFIC 2nd FL	R
L	ELDCE2A-DME3					0.99	41				42			0.60	20	1	TRAFFIC 2nd FL	R
	TOTAL CONNECTED KVA			7.44	6.75	7.11						6.36	7.14	6.54				

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NEW - EQUIPMENT BRANCH

PANEL: L3EIGA

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 125/3 — BLDG: TRAFFIC 3rd FLOOR MTD: FLUSH

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	TRAFFIC 3rd FLOOR	20	1	1.20			1				2	1.20			20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 3rd FLOOR	20	1		1.20		3				4		1.20		20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 3rd FLOOR	20	1			1.20	5				6			1.20	20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 3rd FLOOR	20	1	1.20			7				8	1.20			20	1	COPY	R
R	TRAFFIC 3rd FLOOR	20	1		1.20		9				10		1.20		20	1	COPY	R
R	TRAFFIC 3rd FLOOR	20	1			1.20	11				12			1.20	20	1	COPY	R
M	CF-G-1	15	1	0.55			13				14	1.20			20	1	TRAFFIC 3rd FLOOR	R
M	CP-1	20	1		0.60		15				16		1.20		20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 3rd FLOOR	20	1			0.60	17				18			1.20	20	1	TRAFFIC 3rd FLOOR	R
R	TRAFFIC 3rd FLOOR	20	1	0.60			19				20				20	1	SPARE	
	SPACE						21				22				20	1	SPARE	
	SPACE						23				24				20	1	SPARE	
	SPACE						25				26				20	1	SPARE	
	SPACE						27				28				20	1	SPARE	
	SPACE						29				30				20	1	SPARE	
	SPACE						31				32						SPACE	
	SPACE						33				34						SPACE	
	SPACE						35				36						SPACE	
	SPACE						37				38						SPACE	
	SPACE						39				40						SPACE	
	SPACE						41				42						SPACE	
	TOTAL CONNECTED KVA			3.53	3.00	3.00						3.60	3.60	3.60				

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:	5.02	4.58	5.02
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.66	0.75	0.00
T	XFMR./PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	5.68	5.31	5.02
TOTAL AMPS	47.32	44.27	41.82

ACTUAL BREAKER AMPS 44.47
TOTAL KVA 16.01

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NEW - EQUIPMENT BRANCH

PANEL: L2EIGA

A.I.C.: 22,000 VOLTS: 120/208/60/3 — MCB: N/A MLO: 225/3 — BLDG: TRAFFIC 2nd FLOOR MTD: FLUSH

Section 2 of 2

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
R	COPY	20	1	1.20			43				44						SPACE	
R	COPY	20	1		1.20		45				46						SPACE	
R	COPY	20	1			1.20	47				48						SPACE	
	SPARE	20	1				49				50						SPACE	
	SPARE	20	1				51				52						SPACE	
	SPARE	20	1				53				54						SPACE	
	SPARE	20	1				55				56						SPACE	
	SPARE	20	1				57				58						SPACE	
	SPARE	20	1				59				60						SPACE	
	SPACE						61				62						SPACE	
	SPACE						63				64						SPACE	
	SPACE						65				66						SPACE	
	SPACE						67				68						SPACE	
	SPACE						69				70						SPACE	
	SPACE						71				72						SPACE	
	SPACE						73				74						SPACE	
	SPACE						75				76						SPACE	
	SPACE						77				78						SPACE	
	SPACE						79				80						SPACE	
	SPACE						81				82						SPACE	
	SPACE						83				84						SPACE	
	TOTAL CONNECTED KVA			1.20	1.20	1.20						0.00	0.00	0.00				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	0.00	0.00	0.00
L	LIGHTING:	0.90	0.79	1.24
R	RECEPTACLE:	8.82	8.93	8.56
W	WATER HEATER:	0.00	0.00	0.00
M	MOTORS/HVAC/FAN:	0.00	0.00	0.00
T	XFMR/PANEL/ATS:	0.00	0.00	0.00

	PHASE A	PHASE B	PHASE C
TOTAL KVA	9.72	9.71	9.79
TOTAL AMPS	80.97	80.96	81.62

ACTUAL BREAKER AMPS 81.18
TOTAL KVA 29.23

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NEW - EQUIPMENT BRANCH

PANEL: HMEA

A.I.C.: 65,000 VOLTS: 277/480/60/3 — MCB: 850/3 MLO: N/A — BLDG: MEZZANINE MTD: SURFACE

Section 1 of 1

S	REMARKS	BRKR AMPS	P	KVA A	KVA B	KVA C	CIR NO.	PHASE A	PHASE B	PHASE C	CIR NO.	KVA A	KVA B	KVA C	BRKR AMPS	P	REMARKS	S
M	AHU-6	15	3	2.11			1				2	8.33			50	3	AHU-6	H
M	FAN		*		2.11								8.33			*	STRIP HEATER	H
M	5 HP					2.11								8.33			25 kW	H
M	AHU-7	90	3	23.46			3				4	5.95			30	3	CU-6	M
M			*		23.46								5.95			*		M
M						23.46								5.95				M
M	C-7	15	3	1.75			5				6	6.18			125	3	H1EA	T
M			*		1.75								5.70				GE SPECTRA RMS	T
M						1.75								5.11			w/MVT (LSIT)	T
M	ELEVATOR #1	70	3	9.42			7				8	3.51			125	3	H2EA	T
M	GE SPECTRA RMS				9.42								3.17				GE SPECTRA RMS	T
M	w/MVT (LSIT)					9.42								3.14			w/MVT (LSIT)	T
M	ELEVATOR #2	70	3	9.42			9				10	6.63			125	3	H3EA	T
M	GE SPECTRA RMS				9.42								2.66				GE SPECTRA RMS	T
M	w/MVT (LSIT)					9.42								2.85			w/MVT (LSIT)	T
M	JOCKEY PUMP	15	3	0.72			11				12						SPACE	
M			*		0.72													
M						0.72												
M	FIRE PUMP	200	3	34.35			13				14	35.92			450	3	TXEA	T
M	GE SPECTRA RMS				34.35								34.15				GE SPECTRA RMS	T
M	w/MVT (LSIT)					34.35								34.35			w/MVT (LSIT)	T
	TOTAL CONNECTED KVA			81.22	81.22	81.22						60.52	59.96	59.73				

S	TOTAL DEMAND KVA	PHASE A	PHASE B	PHASE C
H	HEATING:	8.33	8.33	8.33
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:	95.76	95.76	95.76
T	XFMR./PANEL/ATS:	46.24	45.68	45.45

	PHASE A	PHASE B	PHASE C
TOTAL KVA	150.33	149.77	149.54
TOTAL AMPS	542.70	540.68	539.85

ACTUAL BREAKER AMPS 541.73
TOTAL KVA 449.63

* SEE MECH SCH FOR CB TYPE MCB SHALL BE MOLDED CASE SWITCH

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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	08-06-07
60% OWNER REVIEW	WHP	BB	11-16-07
100% CIVIL & STRUCTURAL	WHP	BB	01-18-08

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

ELECTRICAL SCHEDULES & DETAILS

SHEET NUMBER:

E7.4

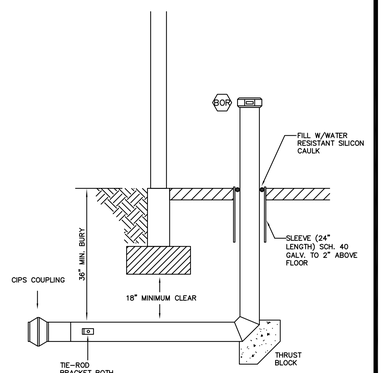
MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

MARK	VOLTAGE	PHASE	PANEL-CIRCUIT	WIRE-CONDUIT	DISCONNECT	HP/kW	STARTER	FEEDER CB SPECIFICATION
P-1	480	3	HMNMB-6	3 #3 THWN & 1 #8 THWN (EQ. GND) - 1" PVC	600/100/3/NF/3R	40 HP	VFD/MECH	GE #SELA 100k 150 150R90 SPECTRA RMS
P-2	480	3	HMNMB-8	3 #3 THWN & 1 #8 THWN (EQ. GND) - 1" PVC	600/100/3/NF/3R	40 HP	VFD/MECH	GE #SELA 100k 150 150R90 SPECTRA RMS
P-3	480	3	HMNMB-10	3 #3 THWN & 1 #8 THWN (EQ. GND) - 1" PVC	600/100/3/NF/3R	40 HP	VFD/MECH	GE #SELA 100k 150 150R90 SPECTRA RMS
AHU-1 (FAN)	480	3	HMNMB-1	3 #6 THHN & 1 #8 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	25 HP	VFD/MECH	GE #SELA 100k 150 150R60 SPECTRA RMS
AHU-1 (SH)	480	3	HMNMB-2	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	600/100/3/NF/1	35.0 kW	N/A	GE #SELA 100k 150 150R70 SPECTRA RMS
AHU-2 (FAN)	480	3	HMNMC-1	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	INTEGRAL	40 HP	VFD/MECH	GE #SELA 100k 150 150R80 SPECTRA RMS
AHU-2 (SH)	480	3	HMNMC-14	3 #1/0 THHN & 1 #6 THHN (EQ. GND) - 1-1/2" EMT	600/200/3/NF/1	75 kW	N/A	GE #SGLA 100k 600 150R150 MVTP (LSIT) (C) SET .90
AHU-3 (FAN)	480	3	HMNMB-3	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	INTEGRAL	30 HP	VFD/MECH	GE #SELA 100k 150 150R70 SPECTRA RMS
AHU-3 (SH)	480	3	HMNMB-4	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	600/100/3/NF/1	45 kW	N/A	GE #SELA 100k 150 150R80 SPECTRA RMS
AHU-4 (FAN)	480	3	HMNMC-3	3 #6 THHN & 1 #8 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	25 HP	VFD/MECH	GE #SELA 100k 150 150R60 SPECTRA RMS
AHU-4 (SH)	480	3	HMNMC-2	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	600/100/3/NF/1	45 kW	N/A	GE #SELA 100k 150 150R80 SPECTRA RMS
AHU-5 (FAN)	480	3	HMNMC-5	3 #6 THHN & 1 #8 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	25 HP	VFD/MECH	GE #SELA 100k 150 150R60 SPECTRA RMS
AHU-5 (SH)	480	3	HMNMC-4	3 #4 THHN & 1 #8 THHN (EQ. GND) - 1" EMT	600/100/3/NF/1	45 kW	N/A	GE #SELA 100k 150 150R80 SPECTRA RMS
AHU-6 (FAN)	480	3	HMEA-1	3 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	COMB STARTER	5 HP	MSA	GE #SELA 100k 150 150R15 SPECTRA RMS
AHU-6 (SH)	480	3	HMEA-2	3 #6 THHN & 1 #8 THHN (EQ. GND) - 3/4" EMT	600/60/3/NF/1	25 kW	N/A	GE #SELA 100k 150 150R50 SPECTRA RMS
CU-6	480	3	HMEA-4	3 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	600/30/3/NF/3R	N/A	N/A	GE #SELA 100k 150 150R30 SPECTRA RMS
AHU-7	480	3	HMEA-3	3 #3 THWN & 1 #8 THWN (EQ. GND) - 1" EMT	INTEGRAL	N/A	MECHANICAL	GE #SELA 100k 150 150R90 SPECTRA RMS
C-7	480	3	HMEA-5	3 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" PVC	600/30/3/NF/3R	N/A	WITH EQUIP	GE #SELA 100k 150 150R15 SPECTRA RMS
FIRE PUMP	480	3	HMEA-13	3 #3/0 THHN & 1 #6 THHN (EQ. GND) - 2" GRS	CONTROLLER	100 HP	ELECTRICAL	GE #SGLA 100k 600 400R200 MVTP (LSIT) (C) SET 1.00
VAV-1-1	480	1	H1NA-25,27	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-1-2	277	1	H1NA-50	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-1-3	480	1	H1NA-61,63	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	11 kW	N/A	GE 30/2 65kAIC
VAV-1-4	480	1	H1NA-68,70	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	8 kW	N/A	GE 25/2 65kAIC
VAV-1-5	277	1	H1NA-29	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-1-6	277	1	H1NA-30	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-1-7	277	1	H1NA-69	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-1-8	480	1	H1NA-26,28	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-1-9	277	1	H1NA-73	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-1-10	277	1	H1NA-65	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-1-11	277	1	H1NA-62	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-1-12	277	1	H1NA-75	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-1-13	277	1	H1NA-67	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-1-14	480	1	H1NA-64,66	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	11 kW	N/A	GE 30/2 65kAIC
VAV-1-15	480	1	H1NA-31,33	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-1-16	480	1	H1NA-78,80	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	9 kW	N/A	GE 25/2 65kAIC
VAV-1-17	277	1	H1NA-35	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-1-18	277	1	H1NA-52	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-1-19	277	1	H1NA-36	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-1-20	277	1	H1NA-71	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-1-21	277	1	H1NA-105	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	1 kW	N/A	GE 15/1 65kAIC
VAV-2-1	277	1	H1NA-72	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-2	277	1	H1NA-86	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-2-3	277	1	H1NA-54	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-2-4	277	1	H1NA-41	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-2-5	480	1	H1NA-56,58	2 #8 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	12 kW	N/A	GE 35/2 65kAIC
VAV-2-6	277	1	H1NA-82	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-7	277	1	H1NA-88	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-2-8	277	1	H1NA-84	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-9	277	1	H1NA-79	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-10	277	1	H1NA-81	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-11	277	1	H1NA-74	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-12	277	1	H1NA-107	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	1 kW	N/A	GE 15/1 65kAIC
VAV-2-13	277	1	H1NA-77	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-14	277	1	H1NA-85	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-15	480	1	H1NA-32,34	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-16	480	1	H1NA-37,39	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-17	480	1	H1NA-38,40	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-18	480	1	H1NA-43,45	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-19	277	1	H1NA-76	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-20	277	1	H1NA-87	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-21	277	1	H1NA-89	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-22	277	1	H1NA-91	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-23	277	1	H1NA-83	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-24	277	1	H1NA-90	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-2-25	277	1	H1NA-42	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-2-26	480	1	H1NA-44,46	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-27	277	1	H1NA-47	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-2-28	277	1	H1NA-48	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-2-29	277	1	H1NA-93	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-30	277	1	H1NA-55	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-2-31	277	1	H1NA-57	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-2-32	277	1	H1NA-59	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-2-33	277	1	H1NA-95	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-34	480	1	H1NA-92,94	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-2-35	480	1	H1NA-49,51	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-2-36	277	1	H1NA-96	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-2-37	277	1	H1NA-97	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-2-38	480	1	H1NA-99,101	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-2-39	277	1	H1NA-60	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-2-40	277	1	H1NA-53	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-3-1	277	1	H2NA-25	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-2	480	1	H2NA-38,40	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-3-3	277	1	H2NA-27	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-4	277	1	H2NA-42	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-3-5	277	1	H2NA-44	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-3-6	480	1	H2NA-91,93	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-3-7	277	1	H2NA-29	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-8	277	1	H2NA-50	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-9	277	1	H2NA-52	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-10	277	1	H2NA-46	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-3-11	277	1	H2NA-26	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-12	277	1	H2NA-54	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-13	277	1	H2NA-49	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-14	277	1	H2NA-74	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-3-15	277	1	H2NA-76	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-3-16	277	1	H2NA-78	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-3-17	277	1	H2NA-51	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-18	277	1	H2NA-28	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-19	277	1	H2NA-30	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-20	277	1	H2NA-53	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-21	277	1	H2NA-106	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	1 kW	N/A	GE 15/1 65kAIC
VAV-3-22	277	1	H2NA-48	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-3-23	277	1	H2NA-68	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-3-24	480	1	H2NA-95,97	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-3-25	480	1	H2NA-108,110	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	10 kW	N/A	GE 30/2 65kAIC
VAV-3-26	277	1	H2NA-55	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-27	277	1	H2NA-31	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

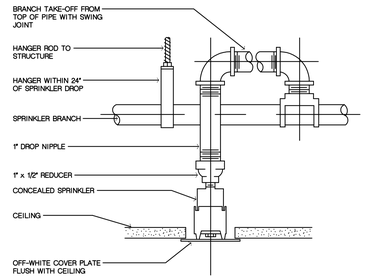
MARK	VOLTAGE	PHASE	PANEL-CIRCUIT	WIRE-CONDUIT	DISCONNECT	HP/kW	STARTER	FEEDER CB SPECIFICATION
VAV-3-28	277	1	H2NA-73	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-3-29	277	1	H2NA-33	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-30	277	1	H2NA-35	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-31	277	1	H2NA-75	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-3-32	277	1	H2NA-96	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3.5 kW	N/A	GE 20/1 65kAIC
VAV-3-33	277	1	H2NA-70	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-3-34	277	1	H2NA-57	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-35	277	1	H2NA-59	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-36	277	1	H2NA-32	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-37	277	1	H2NA-34	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-3-38	277	1	H2NA-56	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-39	277	1	H2NA-58	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-3-40	277	1	H2NA-79	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-1	277	1	H2NA-81	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-2	277	1	H2NA-60	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-3	277	1	H2NA-77	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-4-4	277	1	H2NA-61	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-5	277	1	H2NA-63	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-6	480	1	H2NA-92,94	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	9 kW	N/A	GE 25/2 65kAIC
VAV-4-7	480	1	H2NA-100,102	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	9 kW	N/A	GE 25/2 65kAIC
VAV-4-8	480	1	H2NA-99,101	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-4-9	277	1	H2NA-67	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-4-10	277	1	H2NA-83	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-11	277	1	H2NA-85	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-12	277	1	H2NA-87	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-13	277	1	H2NA-69	2 #10 THHN & 1 #10 THIN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-4-14	277	1	H2NA-80	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-4-15	277	1	H2NA-82	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-4-16	277	1	H2NA-89	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-17	277	1	H2NA-36	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-4-18	277	1	H2NA-65	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-19	277	1	H2NA-71	2 #10 THHN & 1 #10 THIN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-4-20	277	1	H2NA-84	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	2 kW	N/A	GE 15/1 65kAIC
VAV-4-21	277	1	H2NA-62	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-22	277	1	H2NA-64	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-23	277	1	H2NA-68	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-24	277	1	H2NA-86	2 #10 THHN & 1 #10 THIN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-25	277	1	H2NA-37	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-4-26	277	1	H2NA-88	2 #10 THHN & 1 #10 THIN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-27	277	1	H2NA-98	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-4-28	277	1	H2NA-39	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-4-29	277	1	H2NA-41	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-4-30	277	1	H2NA-90	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	5 kW	N/A	GE 25/1 65kAIC
VAV-4-31	277	1	H2NA-72	2 #10 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	6 kW	N/A	GE 30/1 65kAIC
VAV-4-32	277	1	H2NA-43	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	4 kW	N/A	GE 20/1 65kAIC
VAV-4-33	480	1	H2NA-45,47	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
VAV-5-1	277	1	H3NA-26	2 #12 THHN & 1 #12 THIN (EQ. GND) - 3/4" EMT	INTEGRAL	3 kW	N/A	GE 15/1 65kAIC
VAV-5-2	480	1	H3NA-28,30	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	INTEGRAL	7 kW	N/A	GE 20/2 65kAIC
EWH-1	480	1	HMNMC-6	3 #8 THHN & 1 #10 THHN (EQ. GND) - 3/4" EMT	600/60/3/NF	30 kW	N/A	GE #SELA 100k 150 150R45 SPECTRA RMS
CP-1	120	1	L3EIGA-15	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	RECEPT.	FRACT	N/A	GE 15/1 65kAIC
EF-1-1	120	1	L1NA-61	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	STARTER	1/6 HP	FRACTIONAL	GE 15/1 65kAIC
EF-1-2	120	1	L1NA-63	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	STARTER	1/6 HP	FRACTIONAL	GE 15/1 65kAIC
EF-1-3	120	1	L1NB-60	2 #12 THHN & 1 #12 THHN (EQ. GND) - 3/4" EMT	STARTER	1/6 HP	FRACTIONAL	GE 15/1 65kAIC
EF-2-1	120	1	L1NB-62	2 #12 THHN & 1 #12

6" & 4" AMES IN-BUILDING RISER



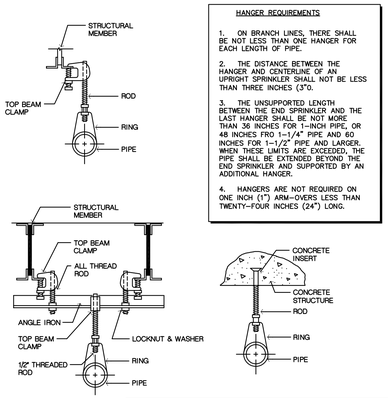
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TYPICAL CONCEALED SPRINKLER



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1410

HANGERS



HANGER REQUIREMENTS

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

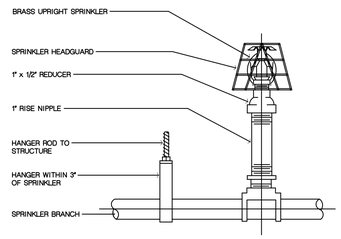
2. THE DISTANCE BETWEEN THE HANGER AND CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN THREE INCHES (3").

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.

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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, INTERMEDIATE TEMPERATURE.
	1/2" CONCEALED PENDENT, QR, WHITE, ORDINARY TEMPERATURE.
⊗	1/2" UPRIGHT, QR,BRASS, ORDINARY TEMPERATURE
✺	1/2" PENDENT, DRY DROP, ORDINARY TEMPERATURE

FIRE PROTCTION GENERAL NOTES

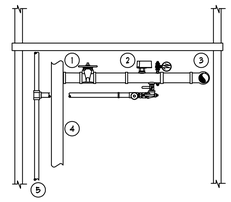
THE DESIGN DRAWINGS OF ALL CATEGORIES AND TRADES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL) AND ALL SPECIFICATIONS AND SHOP DRAWINGS MUST BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION 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
	– 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
	– REVISION REFERENCE
1 FP-1	– DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON

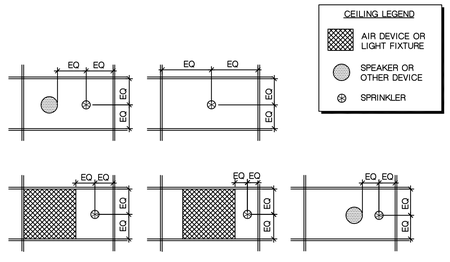
FLOOR CONTROL ASSEMBLY



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

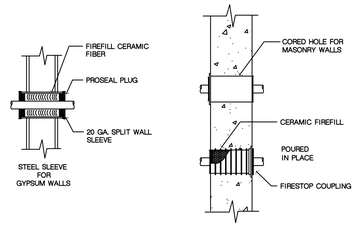
SPRINKLER MOUNTING



SPRINKLERS IN GRID CEILING SYSTEMS SHALL BE LOCATED AT THE MIDPOINT OR QUARTERPOINT OF THE FOUR FOOT (4') DIMENSION AND THE MIDPOINT OF THE TWO FOOT (2') DIMENSION. WHERE A CONFLICT OCCURS, SYMMETRY ABOUT THE AXIS SHALL BE MAINTAINED.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1408

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.

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1407

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. REFER 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.

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.
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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 1500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE.
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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: PANAMA CITY FIRE DEPARTMENT
TESTED BY: JOHN SKIARSKI
LOCATION: WOOD AVE. & 13TH ST.
DATE: SEPTEMBER 25, 2007
STATIC: 47
RESIDUAL: 37
GPM FLOWING: 766

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 LEGENDS, NOTES, AND DETAILS
FP1.0	FIRE PROTECTION SITE PLAN
FP1.1	FIRE PROTECTION FIRST FLOOR PLAN
FP1.2	FIRE PROTECTION SECOND FLOOR PLAN
FP1.3	FIRE PROTECTION THIRD FLOOR PLAN
FP2.0	FIRE PROTECTION FIRE PUMP PLAN

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

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8363 GUNN HIGHWAY
TAMPA, FLORIDA 33626
PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0000362
PROJECT NUMBER: 07014

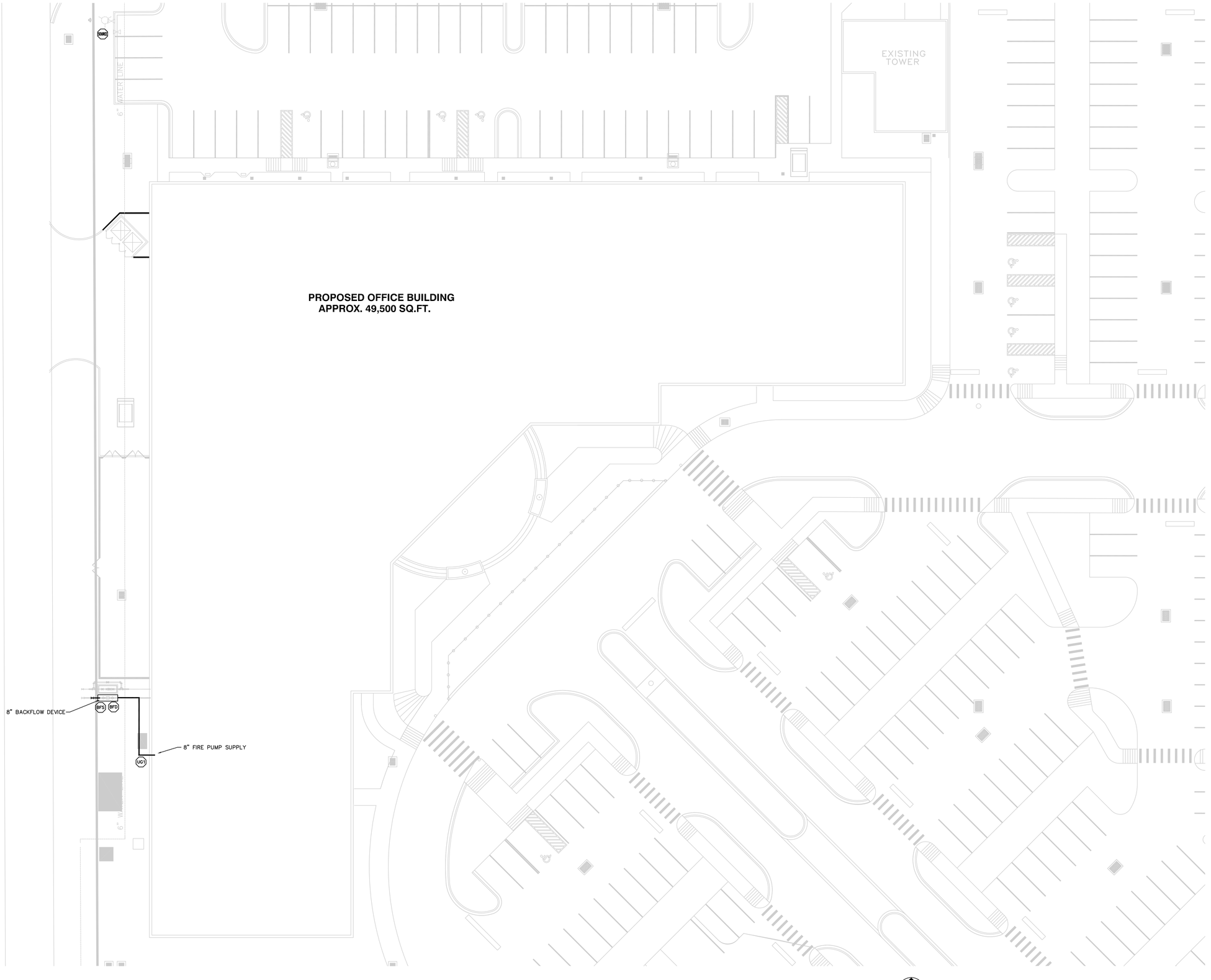
SIGNATURE DATE
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PE 0049347
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION LEGENDS, NOTES, AND DETAILS

SHEET NUMBER:
FP0.1



NORTH

FIRE PROTECTION SITE PLAN

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
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100% PROGRESS SET	.	.	01-18-08
BID DOCUMENTS	.	.	03-03-08

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EB 0003962
PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

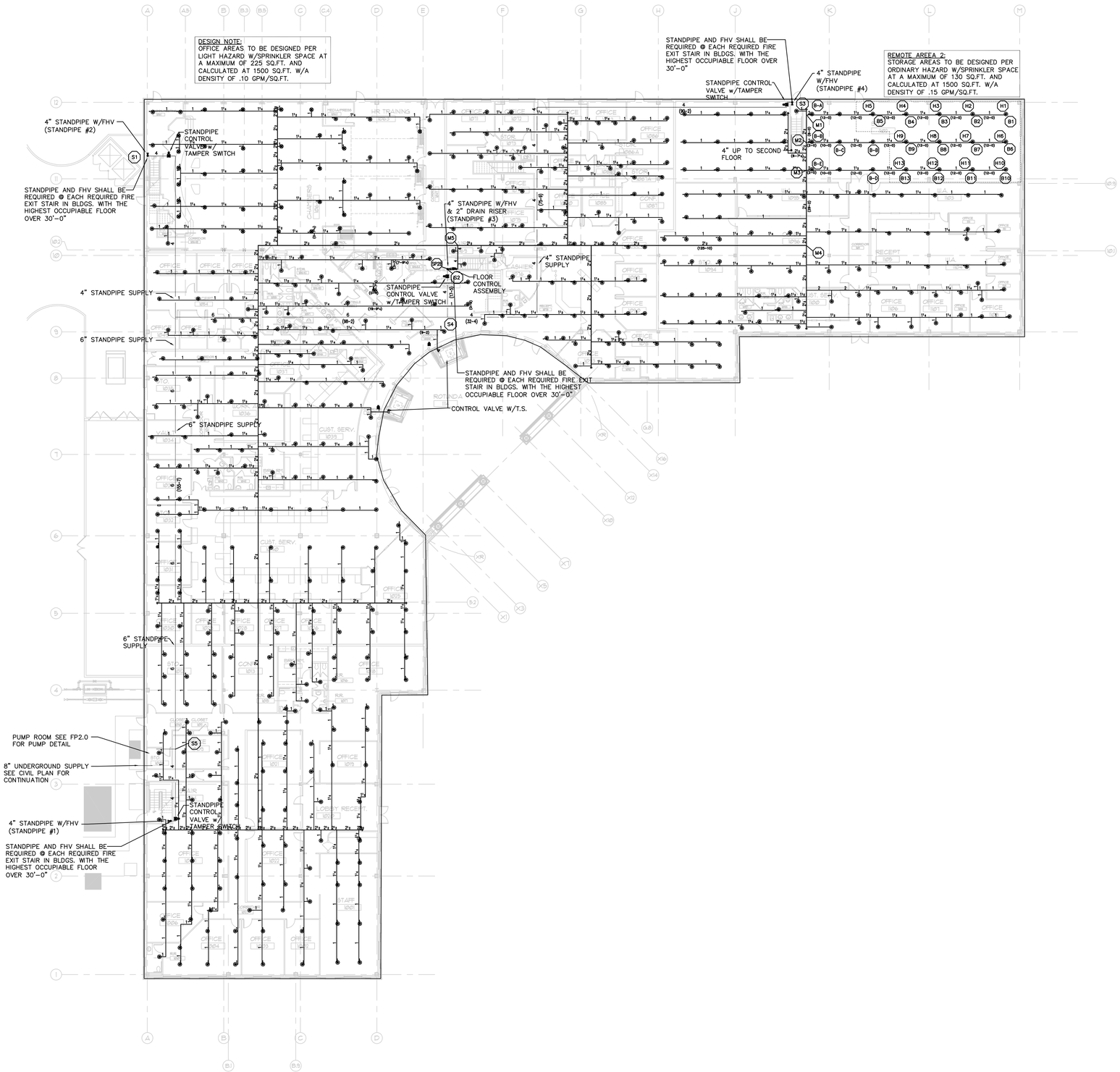
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRE PROTECTION SITE PLAN

SHEET NUMBER:

FP1.0



NORTH

FIRE PROTECTION FIRST FLOOR PLAN

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	·	·	11-16-07
100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

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TAMPA, FLORIDA 33626
PHONE: (813) 448-0225
FAX: (813) 448-0226
CEA PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

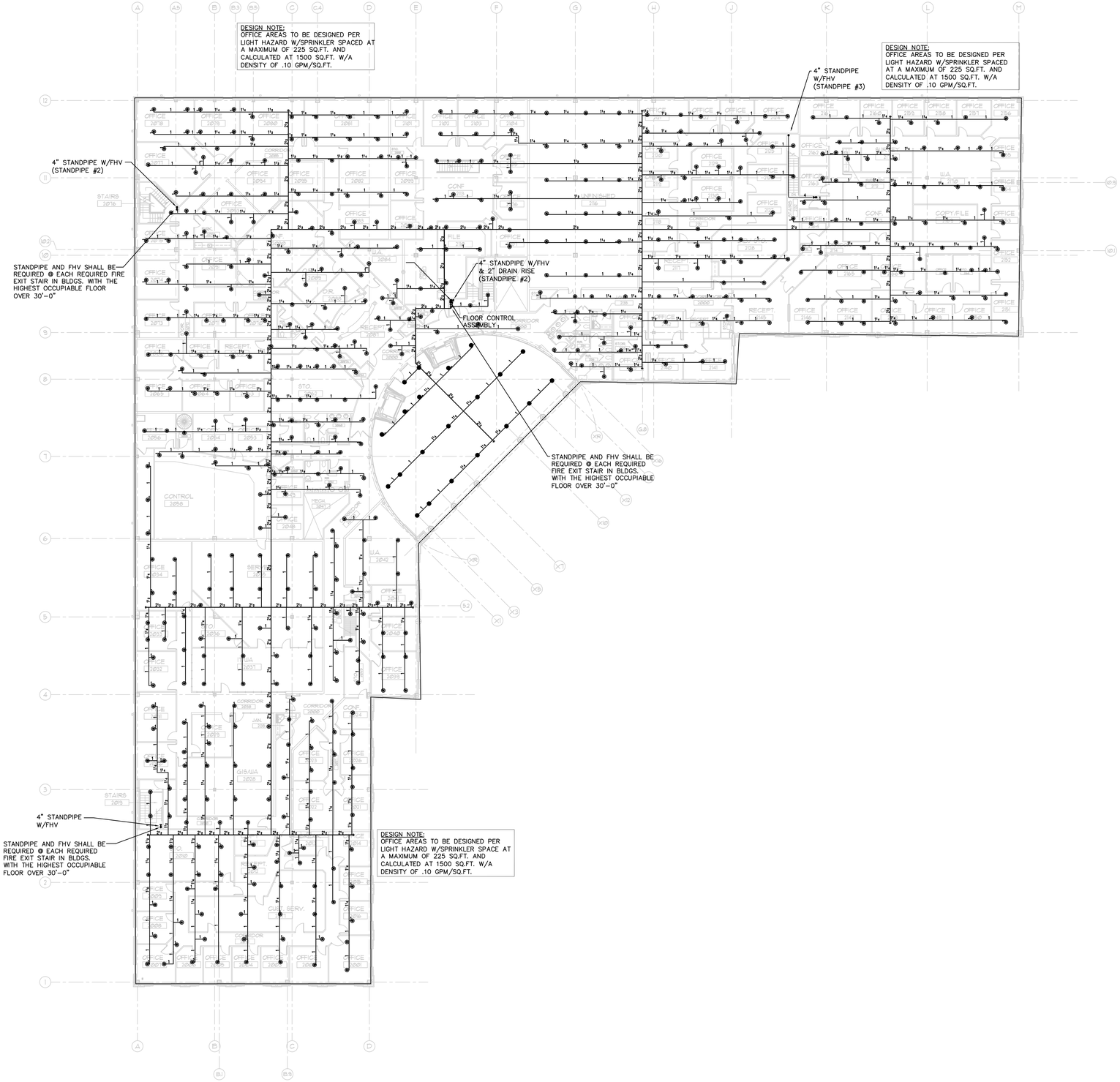
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRE PROTECTION FIRST FLOOR PLAN

SHEET NUMBER:

FP1.1



NORTH

FIRE PROTECTION SECOND FLOOR PLAN

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

REVISIONS:

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75% CONSTRUCTION DOCUMENTS	.	.	11-16-07
100% PROGRESS SET	.	.	01-18-08
BID DOCUMENTS	.	.	03-03-08

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PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

FIRE PROTECTION SECOND FLOOR PLAN

SHEET NUMBER:

FP1.2

DESIGN NOTE:
UNFINISHED AREAS TO BE DESIGNED PER LIGHT HAZARD W/SPRINKLER SPACE AT A MAXIMUM OF 225 SQ.FT. AND CALCULATED AT 1500 SQ.FT. W/A DENSITY OF .10 GPM/SQ.FT.

4" STANDPIPE W/FHV (STANDPIPE #2)

STANDPIPE AND FHV SHALL BE REQUIRED @ EACH REQUIRED FIRE EXIT STAIRWAY ONLY

4" STANDPIPE W/FHV & 2" DRAIN RISER (STANDPIPE #2)

FLOOR CONTROL ASSEMBLY

CONTROL VALVE W/T.S.

REMOTE AREA #1:
MECH. MEZZ. TO BE DESIGNED PER LIGHT HAZARD W/SPRINKLER SPACED AT A MAXIMUM OF 130 SQ.FT. AND CALCULATED AT 1500 SQ.FT. W/A DENSITY OF .10 GPM/SQ.FT.

HYDRAULIC DATA:
FLOW 250 gpm @ 65#

STANDPIPE

NORTH

FIRE PROTECTION THIRD FLOOR PLAN

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

REVISIONS:

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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
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TAMPA, FLORIDA 33626
PHONE: (813) 448-3025
FAX: (813) 448-0226
EB 0000396
PROJECT NUMBER: 07014

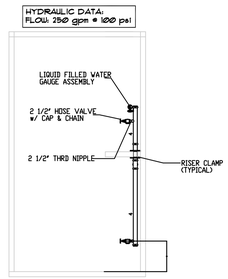
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
FIRE PROTECTION THIRD FLOOR PLAN

SHEET NUMBER:
FP1.3

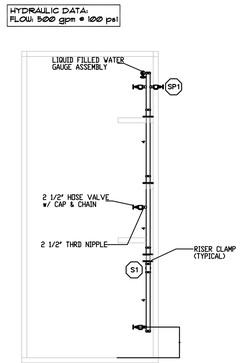
STANDPIPE SECTION



STANDPIPE #1

REV: PD-1406

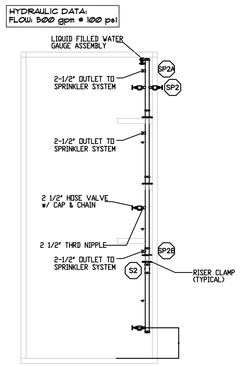
STANDPIPE SECTION



STANDPIPE #2

REV: PD-1406

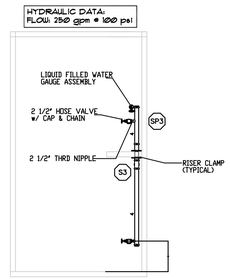
STANDPIPE SECTION



STANDPIPE #3

REV: PD-1406

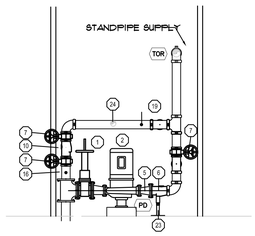
STANDPIPE SECTION



STANDPIPE #4

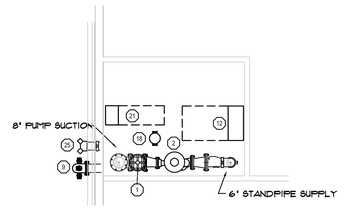
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PUMP SECTION



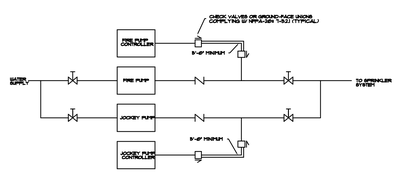
REV: PD-1406

PUMP PLAN



REV: PD-1406

SENSING LINE DETAIL



SENSING LINE DETAIL
SCALE: N.T.S.

REV: PD-1406

PUMP NOTES

PUMP DETAIL LEGEND

1. O.S.&Y. GATE VALVE W/ TAMPER SWITCH
2. 1250 GPM @ 120 PSI VERTICALLY MOUNTED ELECRIC FIRE PUMP ELECTRIC MOTOR 150 HP 1770 RPM 480 VOLT
4. ECCENTRIC REDUCER
5. CONCENTRIC INCREASER
6. 6" GROOVED CHECK VALVE
7. 6" GROOVED BUTTERFLY VALVE W/ TAMPER SWITCH
8. NOT USED
9. 6" TEST MANIFOLD W/ (4) 2-1/2" HOSE VALVES
10. 6" GROOVED CHECK VALVE
11. 6" PUMP BY-PASS
12. FIRE PUMP CONTROLLER
13. NOT USED
14. NOT USED
15. NOT USED
16. 1-1/4" OUTLET FOR JOCKEY PUMP SUCTION
17. 1/2" SENSING LINE OUTLET
18. JOCKEY PUMP
19. 1 1/4" OUTLET FOR JOCKEY PUMP DISCHARGE
21. JOCKEY PUMP CONTROLLER
22. CONCRETE HOUSEKEEPING PAD
23. PIPE STAND
24. 4" OUTLET TO FDC
25. WALL MOUNTED FDC
26. NOT USED

REV: PD-1406

REVISIONS:

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EB 0003962
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:
FIRE PUMP PLAN

SHEET NUMBER:
FP2.0

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

BID DOCUMENTS

MARCH 3, 2008

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.
5500 MARYLAND WAY, SUITE 250
BRENTWOOD, TN 37027
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

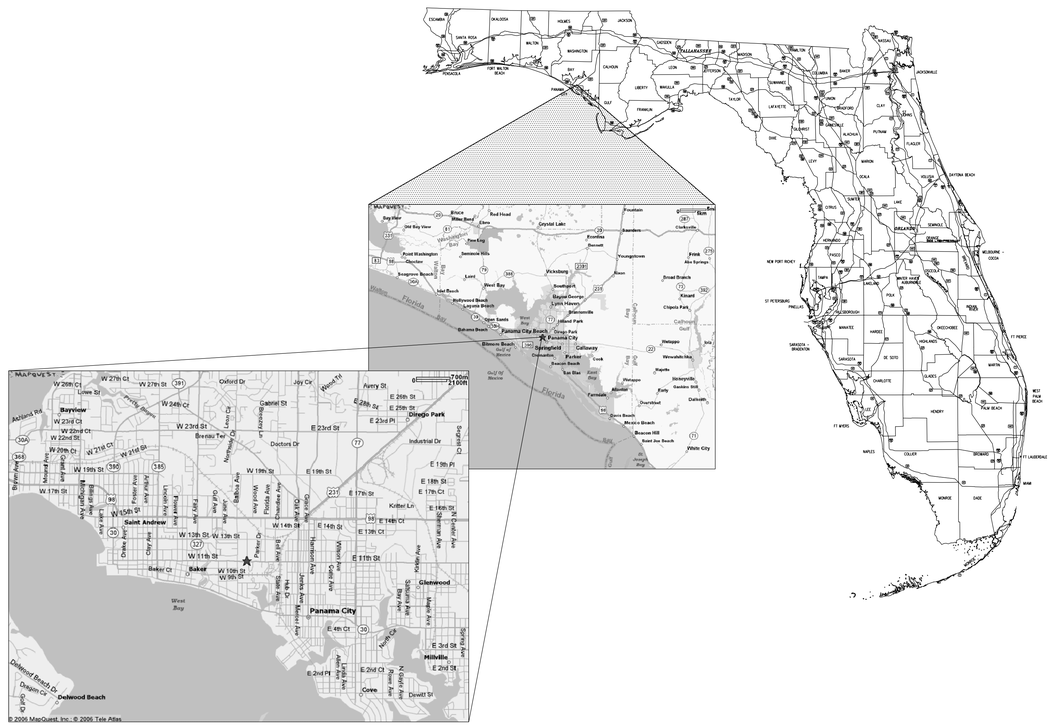
SURVEY

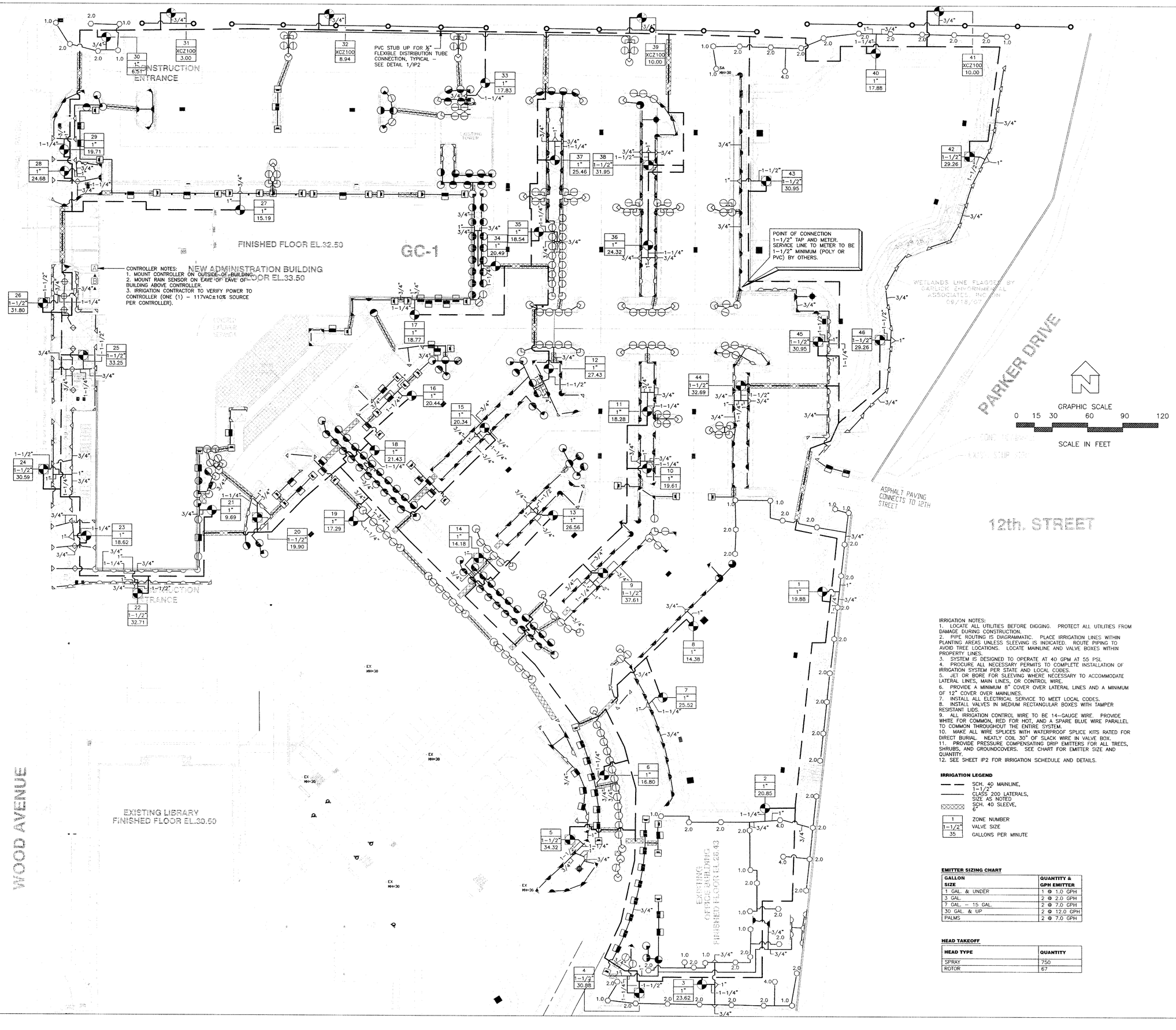
BUCHANAN & HARPER, INC.
735 W. 11TH STREET
PANAMA CITY, FLORIDA 32401
BUS: 850-763-7427
FAX: ----

ENVIRONMENTAL

MCNEIL CARROLL ENGINEERING
475 HARRISON AVE., SUITE 200
PANAMA CITY, FL 32401
BUS: 850-763-5730
FAX: 850-763-5744

\\jfhserver\jobs\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\G0.0 COVER SHEET.dwg, 3/20/2008 2:53:47 PM, cjackson


Panama City
Panama City Beach
Lynn Haven
Callaway
Springfield
Parker
Southport
Millville
Cedar Grove
Bay County
Gulf County
Florida
Gulf of Mexico
West Bay
Deer Point Lake
Econfina Creek
Baywood
Bayview
Diego Park
Saint Andrew
Glenwood
Dehroad Beach
Cove
Downtown
Lisenby Ave
Jenks Ave
Harrison Ave
Beck Ave
Frankford Ave
Thomas Dr
Jan Dr
Jo Ann Dr
Lake Ave
Bay Ave
Baker Ct
Dogwood Beach Dr
Dragon Ct
Gulf Dr
Oxford Dr
Joy Cir
Avery St
Gabriel St
Doctors Dr
Industrial Dr
Knifer Ln
Sherman Ave
Whitaker Ave
Sharon Ave
Mary Ave
Jenks Avenue Ext
North Ct
Dewitt St
Alabama Rd
Bayou George Creek
Watson Bayou
Econfina River
Bear Creek
Bear Creek Rd
Bayou George
Lynn Haven
Panama City Beach
Bonita Beach
Bunkers
Youngstown
Fountain
Parker
Callaway
Springfield
Southport
Lynn Haven
Cedar Grove
Bay County
Florida
Gulf of Mexico
Deer Point Lake
Econfina Creek
Baywood
Bayview
Diego Park
Saint Andrew
Glenwood
Dehroad Beach
Cove
Downtown
Panama City
Millville
Lisenby Ave
Jenks Ave
Harrison Ave
Beck Ave
Frankford Ave
Thomas Dr
Jan Dr
Jo Ann Dr
Lake Ave
Bay Ave
Baker Ct
Dogwood Beach Dr
Dragon Ct
Gulf Dr
Oxford Dr
Joy Cir
Avery St
Gabriel St
Doctors Dr
Industrial Dr
Knifer Ln
Sherman Ave
Whitaker Ave
Sharon Ave
Mary Ave
Jenks Avenue Ext
North Ct
Dewitt St
Alabama Rd
Bayou George Creek
Watson Bayou
Econfina River
Bear Creek
Bear Creek Rd
Bayou George
Lynn Haven
Panama City Beach
Bonita Beach
Bunkers
Youngstown
Fountain
Parker
Callaway
Springfield
Southport
Millville



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 / 1–1/2" / 35 — ZONE NUMBER / VALVE SIZE / 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	750
ROTOR	67

REVISIONS:

NO	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN			03–20–07
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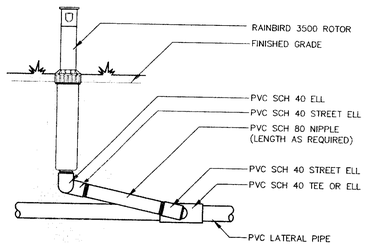
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
IRRIGATION PLAN

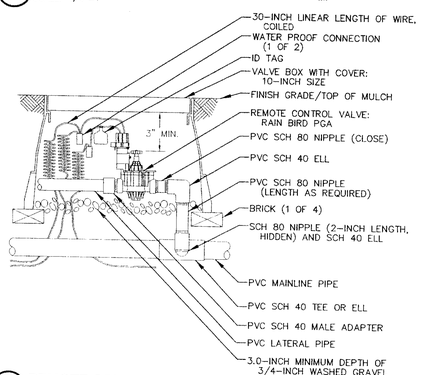
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IRRIGATION SCHEDULE

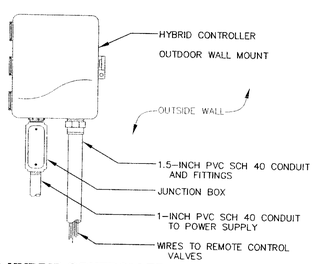
QUANTITY	KEY	MODEL (RAINBIRD UNLESS OTHERWISE NOTED)	GALLONS PER MINUTE
22	VAN	1804-PRS-8VAN	.72-1.55
47		1804-PRS-8Q	.26
119		1804-PRS-8H	.52
2		1804-PRS-8TQ	1.55
27		1804-PRS-10Q	.39
88		1804-PRS-10H	.79
5		1804-PRS-10TQ	1.18
2	VAN	1804-PRS-12VAN	.65-1.30
9		1804-PRS-12Q	.65
54		1804-PRS-12H	1.30
1		1804-PRS-12T	.87
4		1804-PRS-12TQ	1.95
3		1804-PRS-12F	2.60
19	VAN	1804-PRS-15VAN	.92-1.85
30		1804-PRS-15Q	.92
127		1804-PRS-15H	1.85
1		1804-PRS-15T	
6		1804-PRS-15TQ	2.78
3		1804-PRS-15F	3.70
50		1804-PRS-15SST	1.21
43		1804-PRS-15EST	.61
26		1804-PRS-18QVAN	1.33
53		1804-PRS-18HVAN	2.66
2		1804-PRS-18TQVAN	3.99
7		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	



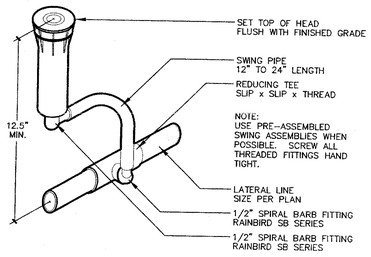
9 / IP2 **3500**
SCALE: 1/4"=1"



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

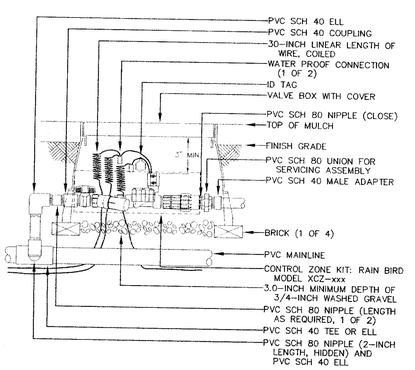


7 / IP2 **HYBRID CONTROLLER**
SCALE: N.T.S.

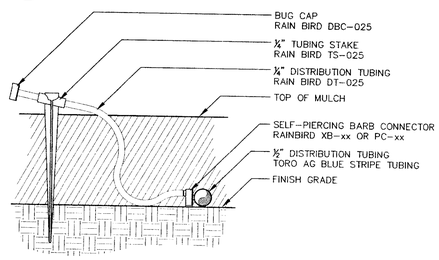


6 / IP2 **SPRAYHEAD DETAIL**
SCALE: 1/4"=1"

©2001 ALAN D. HOLT, ASLA

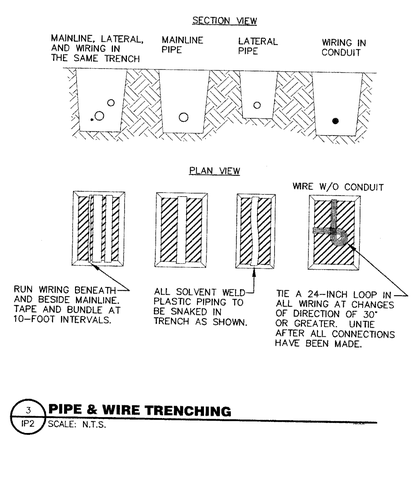


5 / IP2 **DRIP VALVE**
N.T.S.

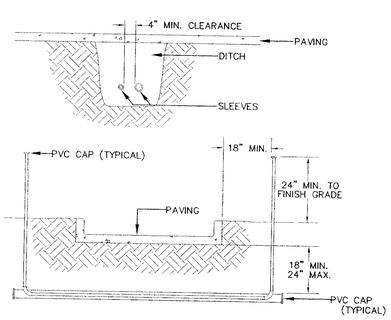


NOTE:
1. USE RAIN BIRD BUG GUN (MODEL EMA-BGX) OR XERIMAN TOOL (MODEL XM-TOOL) TO INSERT BARB CONNECTOR DIRECTLY INTO 1/2" DISTRIBUTION TUBING.

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

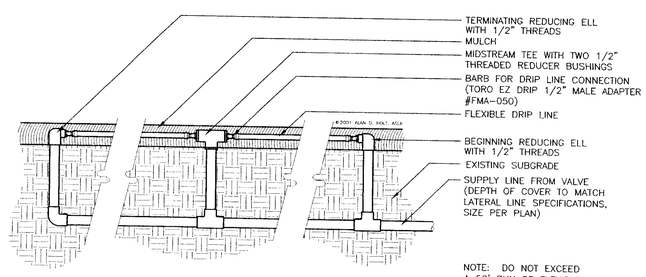


3 / IP2 **PIPE & WIRE TRENCHING**
SCALE: N.T.S.



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"

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
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:

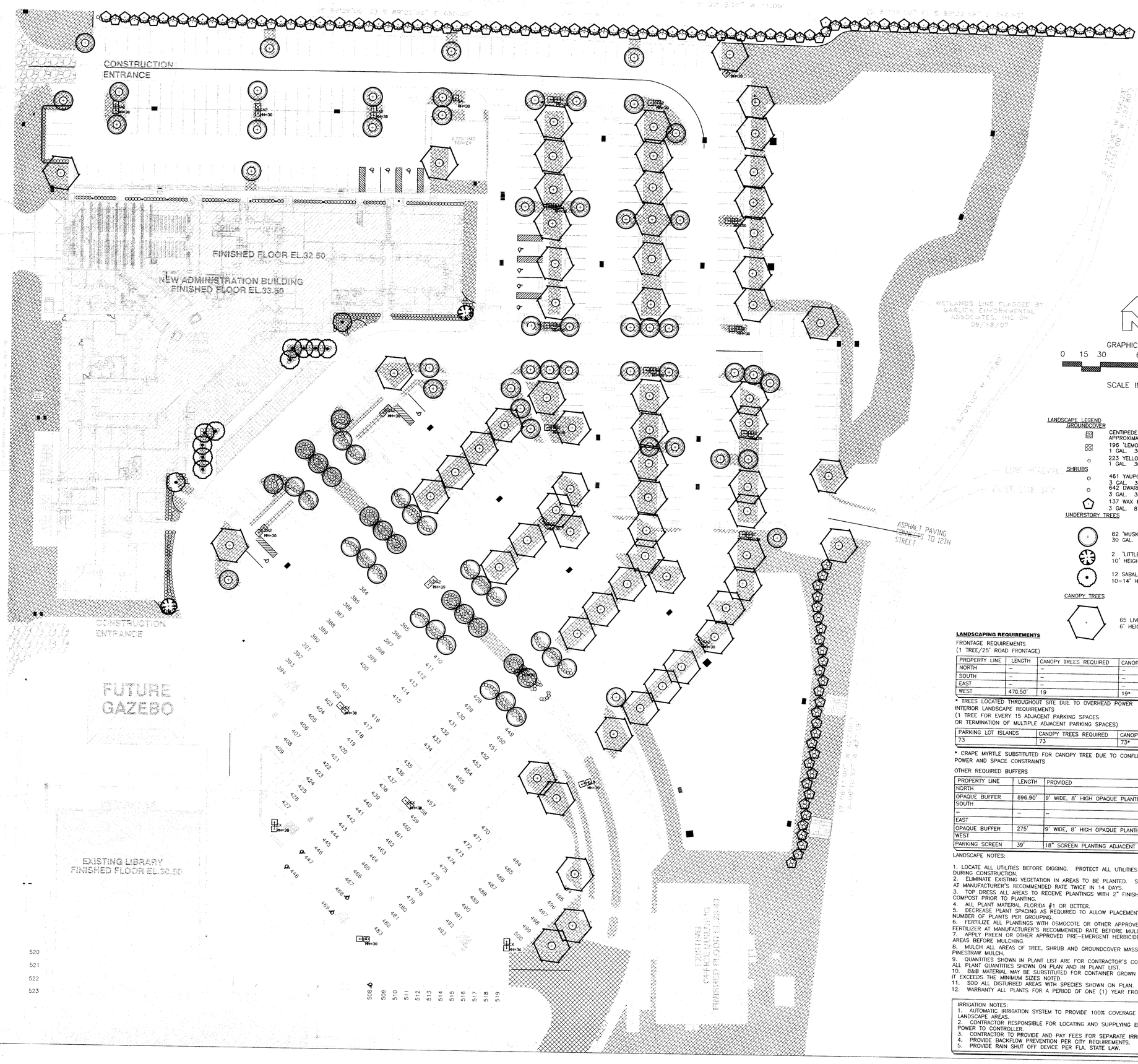
PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
IRRIGATION DETAILS

SHEET NUMBER:
IP2

Luminaire Schedule						
Symbol	Qty	Label	Lamens	LLF	Description	Remarks
	5	L7	32000	0.720	AL3R-400-4HS	AL1404HSIRS
	2	3A	32000	0.720	AL3R-400-4HS	AL1404HSIRS
	20	3AS	32000	0.720	AL3R-400-4HS	AL1404HSIRS



GRAPHIC SCALE

0 15 30 60 90 120

SCALE IN FEET

LANDSCAPE LEGEND

GROUNDCOVER

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

SHRUBS

- 461 YAUPON HOLLY 3 GAL. 30" O.C.
- 642 DWARF INDIAN HAWTHORN 3 GAL. 30" O.C.
- 137 WAX MYRTLE 3 GAL. 8' O.C.

UNDERSTORY TREES

- 82 '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

- 65 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
73	73	73*

* CRAPE MYRTLE SUBSTITUTED FOR CANOPY TREE DUE TO CONFLICTS WITH OVERHEAD POWER AND SPACE CONSTRAINTS

OTHER REQUIRED BUFFERS

PROPERTY LINE	LENGTH	PROVIDED
NORTH		
OPAQUE BUFFER	896.90'	9' WIDE, 8' HIGH OPAQUE PLANTING
SOUTH		
--	--	--
EAST		
OPAQUE BUFFER	275'	9' WIDE, 8' HIGH OPAQUE PLANTING
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	-	-	06-06-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-16-08
BID DOCUMENTS		-	03-03-08

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CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

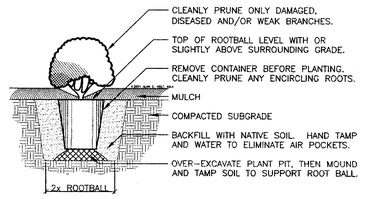
PANAMA CITY, FLORIDA

SHEET TITLE:

LANDSCAPE PLAN

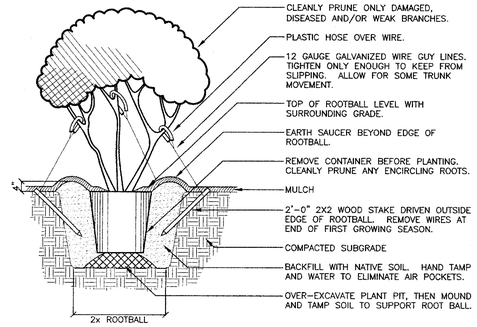
SHEET NUMBER:

LP1



3 LP2 **CONTAINERIZED SHRUB PLANTING DETAIL**
SCALE: NOT TO SCALE

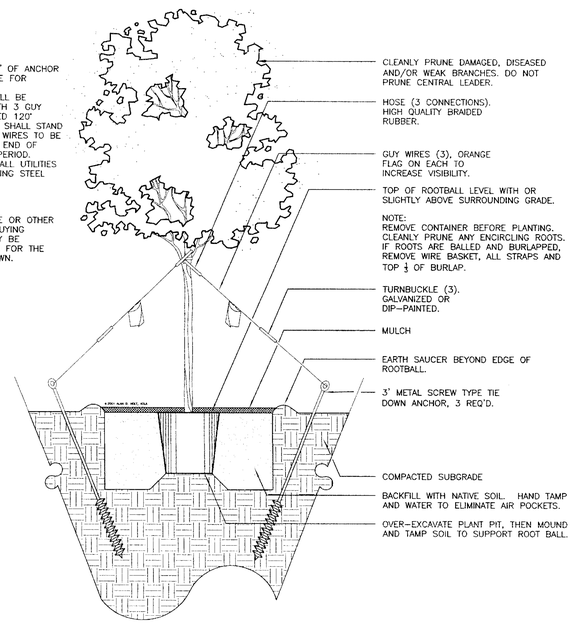
NOTE:
1. ANGLE GUY LINES 45° TO FINISH GRADE.
2. SPACE GUY LINES AT 120°.



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 SUBSTITUTED 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			03-20-07
DESIGN DEVELOPMENT	-	-	06-08-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS		-	03-03-08

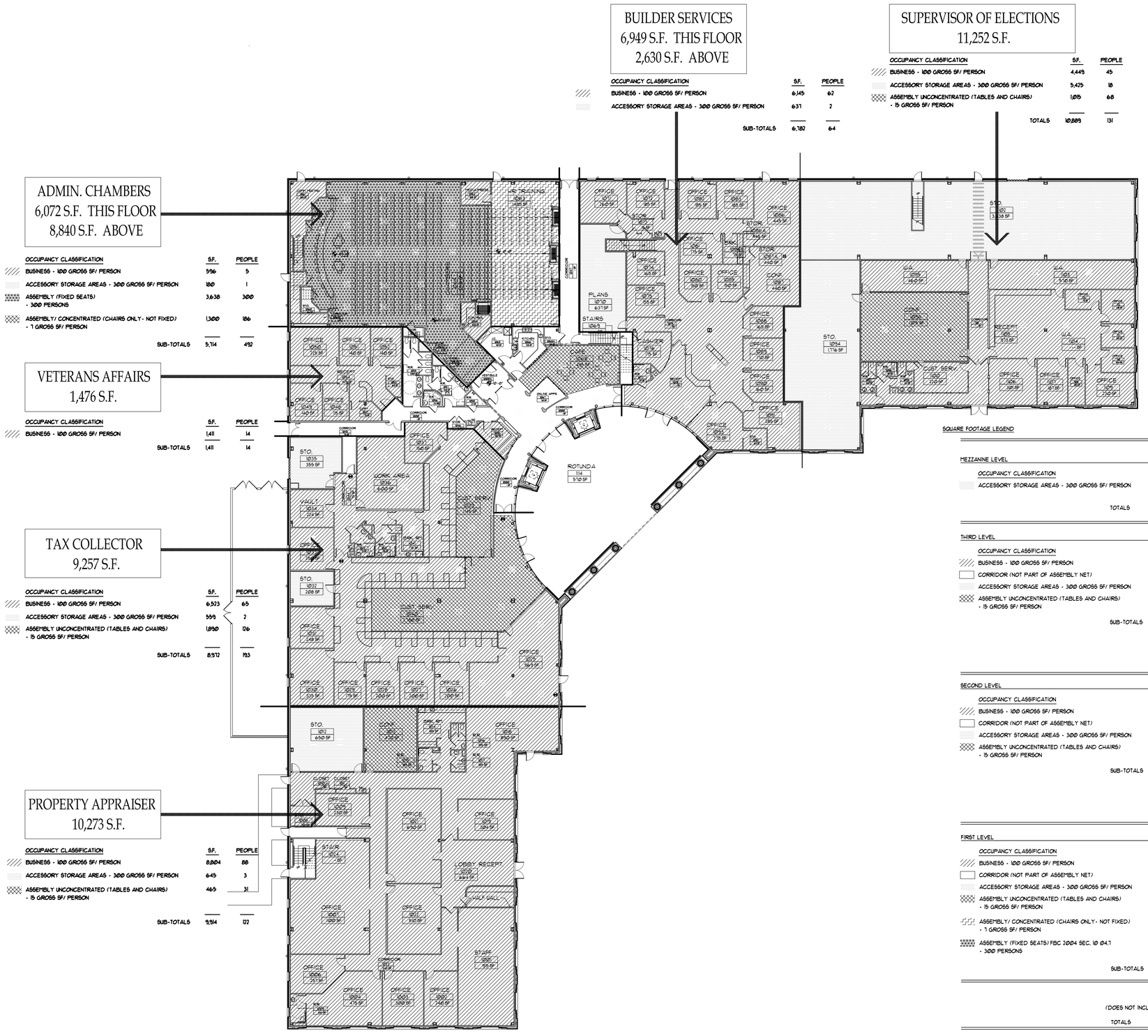
JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
PANAMA CITY, FLORIDA 32408
PHONE: (850) 236-9832
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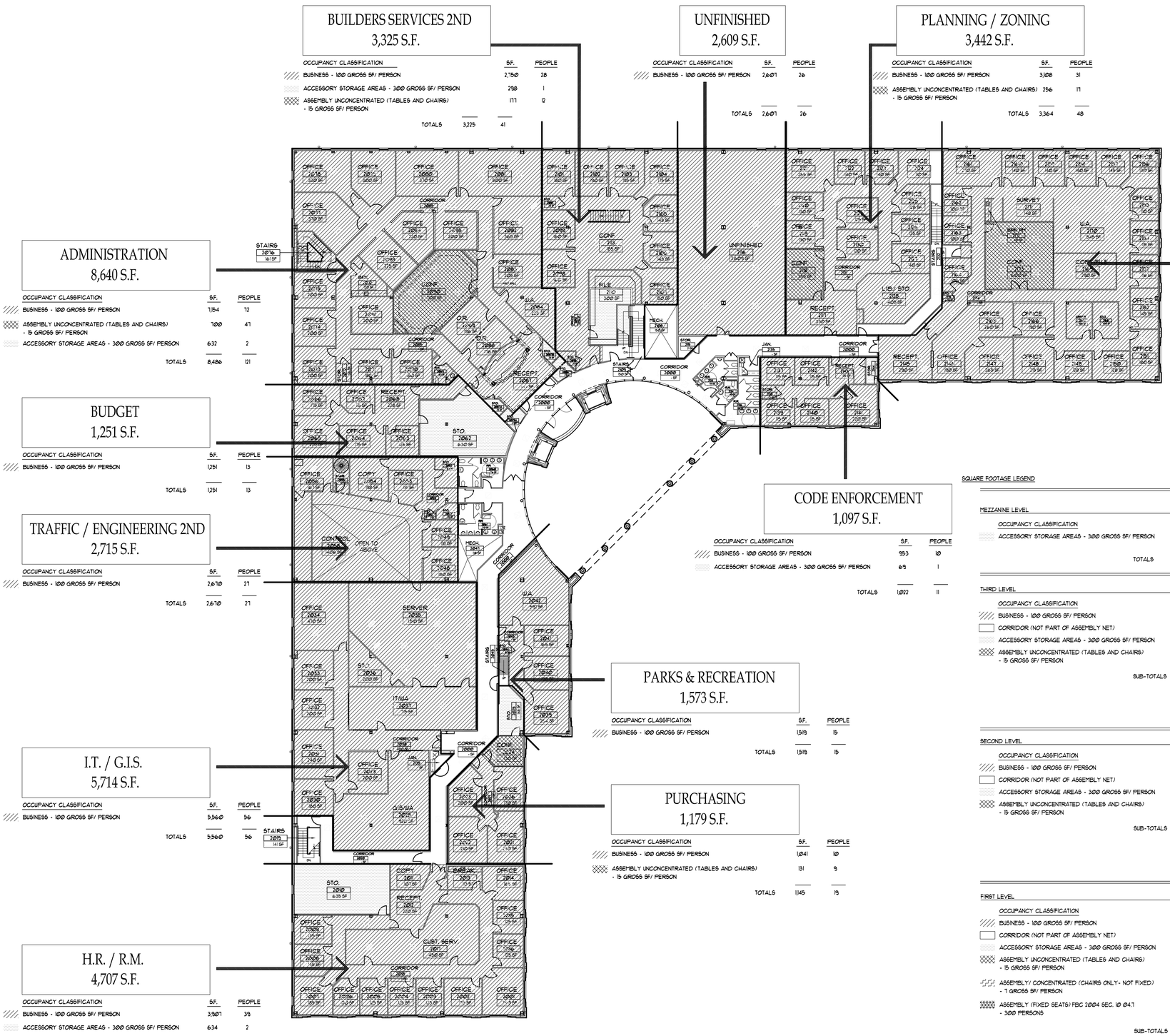
CONSULTANTS:

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
SUPERVISOR OF ELECTIONS
11,252 S.F.
ADMIN. CHAMBERS
6,072 S.F. THIS FLOOR
8,840 S.F. ABOVE
VETERANS AFFAIRS
1,476 S.F.
TAX COLLECTOR
9,257 S.F.
PROPERTY APPRAISER
10,273 S.F.
ROTUNDA
1114
510 SF
PLANS
1010
631 SF
STAIRS
1018
LOBBY
1019
715 SF
LOBBY RECEPT
1020
884 SF
HALF WALL
CUST. SERV.
1009
1,160 SF
WORK AREA
1019
6,000 SF
VAULT
1034
1,008 SF
STO.
1035
359 SF
STO.
1032
208 SF
STO.
1002
650 SF
STO.
1001
3,138 SF
STO.
1054
1,176 SF
CUST. SERV.
1100
1,109 SF
STAIR
1014
STAFF
1007
551 SF
CONF.
1008
CONF.
1081
440 SF
CONF.
1055
CONF.
1056
CLOSET
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1040
CLOSET



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	3,705	12
TOTALS	3,705	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,617	197
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,354	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	275	1
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	403	27
SUB-TOTALS	21,649	225

SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,847	388
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,592	---
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	517

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,950	280
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,714	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,446	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY- NOT FIXED) - 7 GROSS SF/ PERSON	1,300	186
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 24.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,050
	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1803

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	-	-

KEY PLAN

SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- 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

(FE) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 111

(FE3) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 111

"CUTTING AND PATCHING: ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED PER NEC 300-21 USING A THROUGH PENETRATION FIRE STOP SYSTEM (XHEZ) LISTED IN THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY."

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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BID DOCUMENTS	-	-	03-03-08

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CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

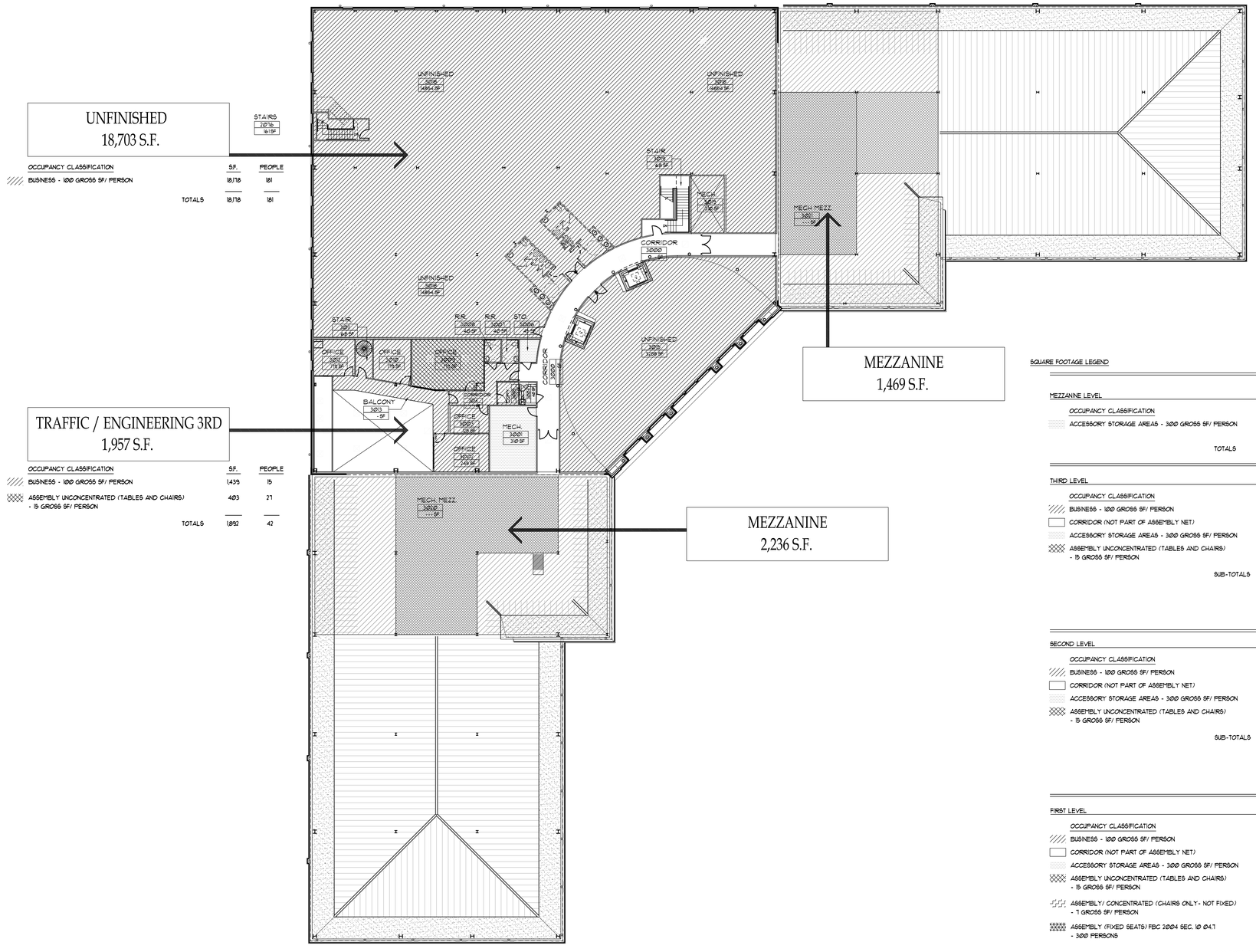
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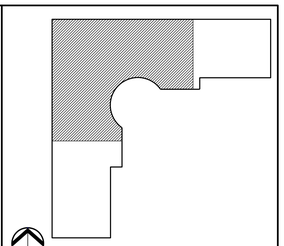
LIFE SAFETY PLAN - LEVEL 2

SHEET NUMBER:

LS1.2

\\fileserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS1.2 LIFE SAFETY PLAN - LEVEL 2.dwg, 3/20/2008 3:19:57 PM, cjackson





NORTH KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- 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

(FE) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL + MAX 50" AFF. MUST COMPLY WITH UL 711

(FE3) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 711

"CUTTING AND PATCHING: ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED PER NEC 300-21 USING A THROUGH PENETRATION FIRE STOP SYSTEM (W-HEZ) LISTED IN THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY."

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,705	12
TOTALS	3,705	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,611	191
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,554	---
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	38,841	388
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,592	---
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	517

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,950	280
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,714	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,446	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY- NOT FIXED) - 1 GROSS SF/ PERSON	1,300	186
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 1004.7 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,050

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,109	1,803

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"

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) 236-9832
FAX: (850) 230-3584
Commission Number: 06318

CONSULTANTS:

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
LIFE SAFETY PLAN - LEVEL 3

SHEET NUMBER:
LS1.3

\\fltserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS1.3 LIFE SAFETY PLAN - LEVEL 3.dwg, 3/20/2008 3:21:26 PM, djackson

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.

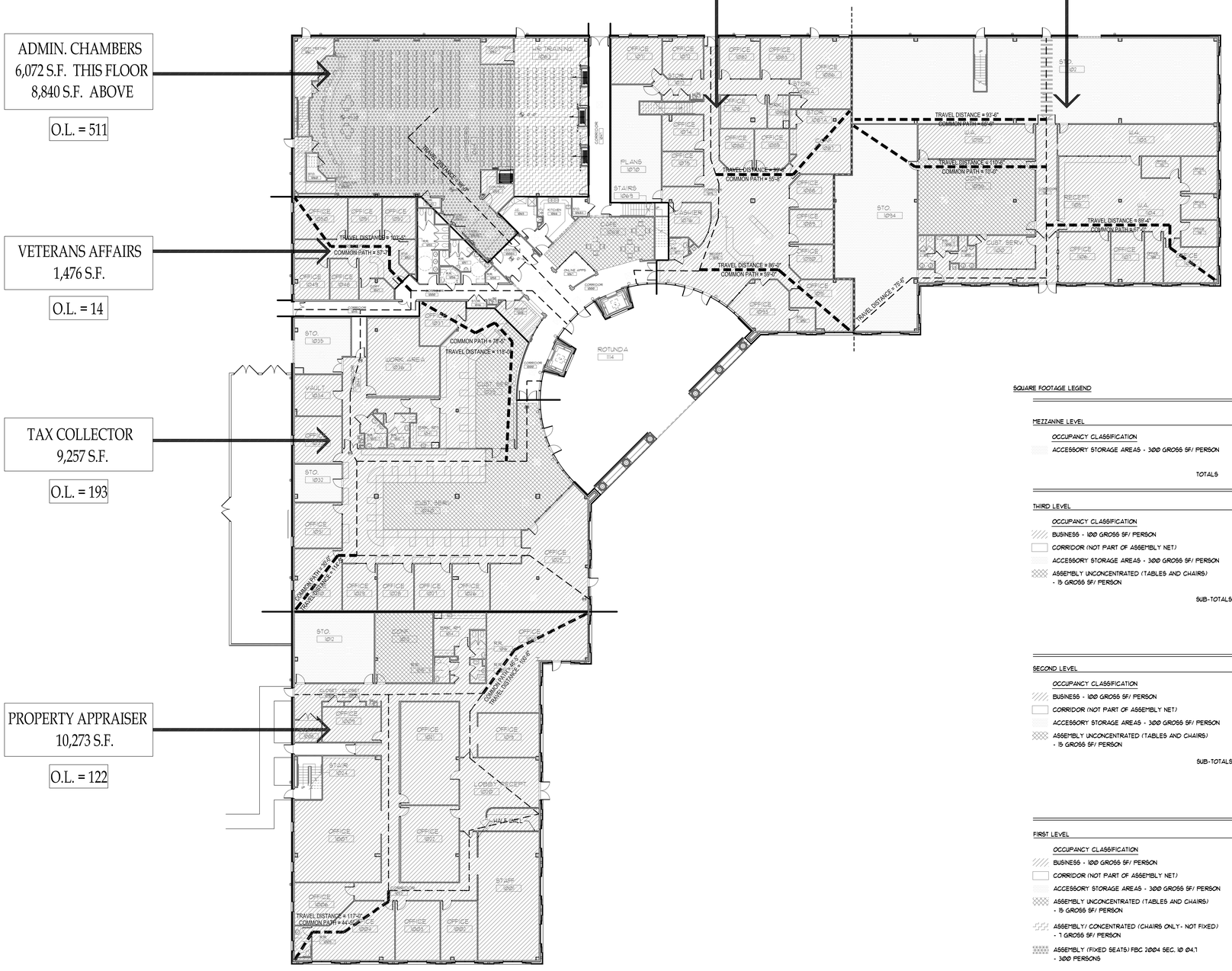
O.L. = 122

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



SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,705	12
TOTALS	3,705	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,617	197
CORRIDOR (NOT PART OF ASSEMBLY NET)	1,554	---
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	38,847	388
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,592	---
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	517

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,950	280
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,714	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,446	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY - NOT FIXED) - 7 GROSS SF/ PERSON	1,300	186
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 04.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,050

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1,803

NORTH

FIRST FLOOR - LIFE SAFETY PLAN

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

NORTH

KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- 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

(FE) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 711

(FE3) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 711

"CUTTING AND PATCHING: ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED PER NEC 300-21 USING A THROUGH PENETRATION FIRE STOP SYSTEM (W-XXE2) LISTED IN THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY."

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

JRA Architects, Inc.
2605 THOMAS DRIVE SUITE 105
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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

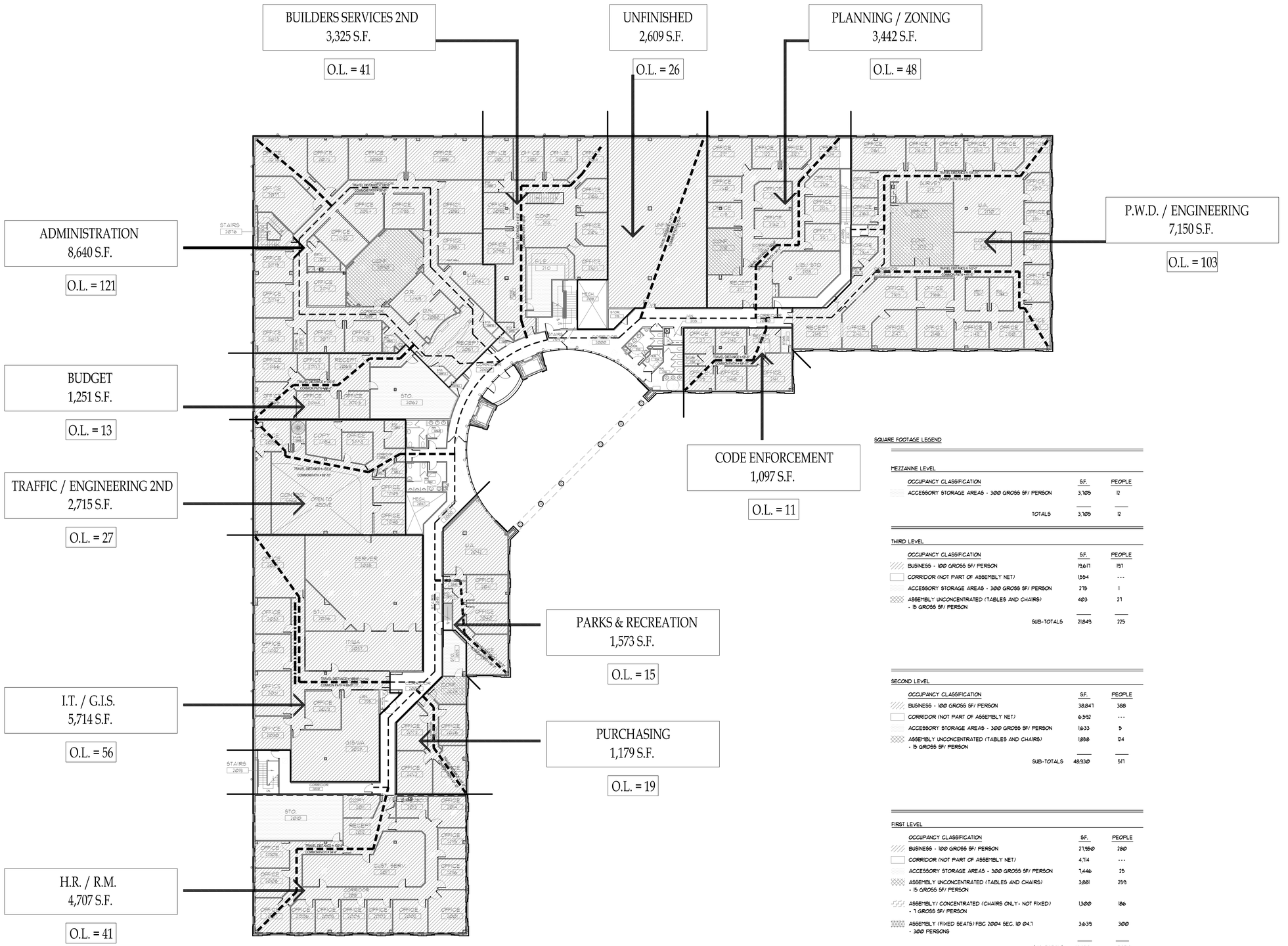
SHEET TITLE:

LIFE SAFETY PLAN - EXITING - LEVEL 1

SHEET NUMBER:

LS2.1

\\ttlserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS2.1 LIFE SAFETY PLAN - EXITING - LEVEL 1.dwg, 3/20/2008 3:22:51 PM, cjackson



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	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)	1,554	---
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	38,847	388
CORRIDOR (NOT PART OF ASSEMBLY NET)	6,592	---
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	517

FIRST LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	27,950	280
CORRIDOR (NOT PART OF ASSEMBLY NET)	4,714	---
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	7,446	25
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 GROSS SF/ PERSON	3,881	259
ASSEMBLY/ CONCENTRATED (CHAIRS ONLY - NOT FIXED) - 7 GROSS SF/ PERSON	1,300	186
ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 04.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,050

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1,803

NORTH KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- 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

(FE) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 111

(FE3) - 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
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

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

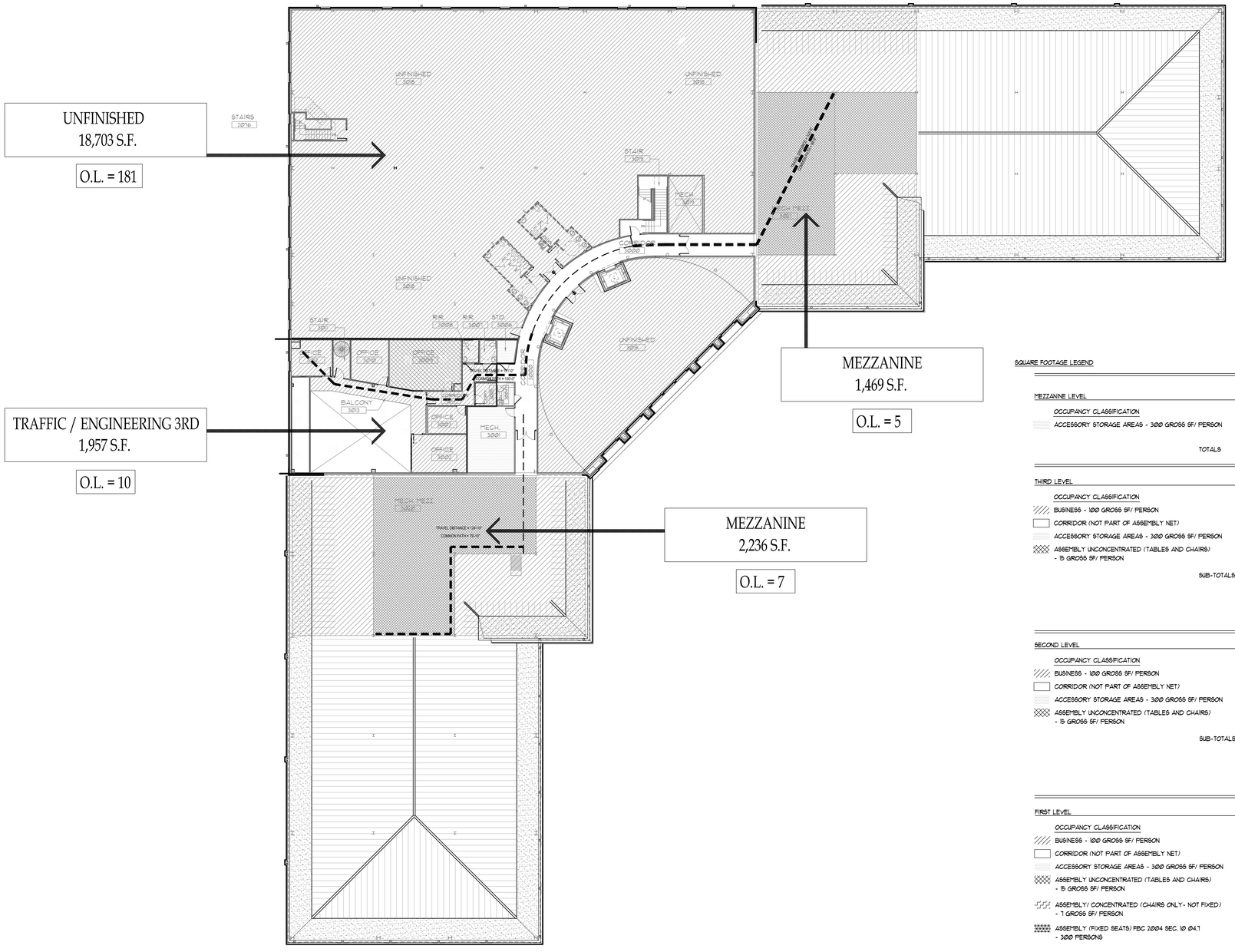
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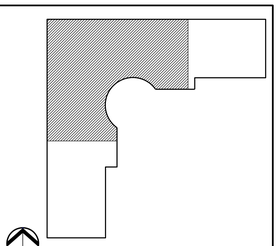
LIFE SAFETY PLAN - EXITING - LEVEL 2

SHEET NUMBER:

LS2.2

\\fltheserver\jobs\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS2.2 LIFE SAFETY PLAN - EXITING - LEVEL 2.dwg, 3/20/2008 3:24:53 PM, cjackson





NORTH KEY PLAN SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- 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

(FE) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL, @ MAX 50" AFF. MUST COMPLY WITH UL 711

(FE3) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 711

"CUTTING AND PATCHING: ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED PER NEC 300-21 USING A THROUGH PENETRATION FIRE STOP SYSTEM (W-HEZ) LISTED IN THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY."

SQUARE FOOTAGE LEGEND

MEZZANINE LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
ACCESSORY STORAGE AREAS - 300 GROSS SF/ PERSON	3,705	12
TOTALS	3,705	12

THIRD LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	19,671	197
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SUB-TOTALS	21,843	225

SECOND LEVEL

OCCUPANCY CLASSIFICATION	S.F.	PEOPLE
BUSINESS - 100 GROSS SF/ PERSON	38,847	388
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BUSINESS - 100 GROSS SF/ PERSON	27,950	280
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ASSEMBLY (FIXED SEATS) FBC 2004 SEC. 10 04.1 - 300 PERSONS	3,639	300
SUB-TOTALS	48,930	1,050

	(DOES NOT INCLUDE MEZZ.)	(INCLUDES MEZZ.)
TOTALS	119,709	1,803

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	·	·	07/17/07
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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CONSULTANTS:

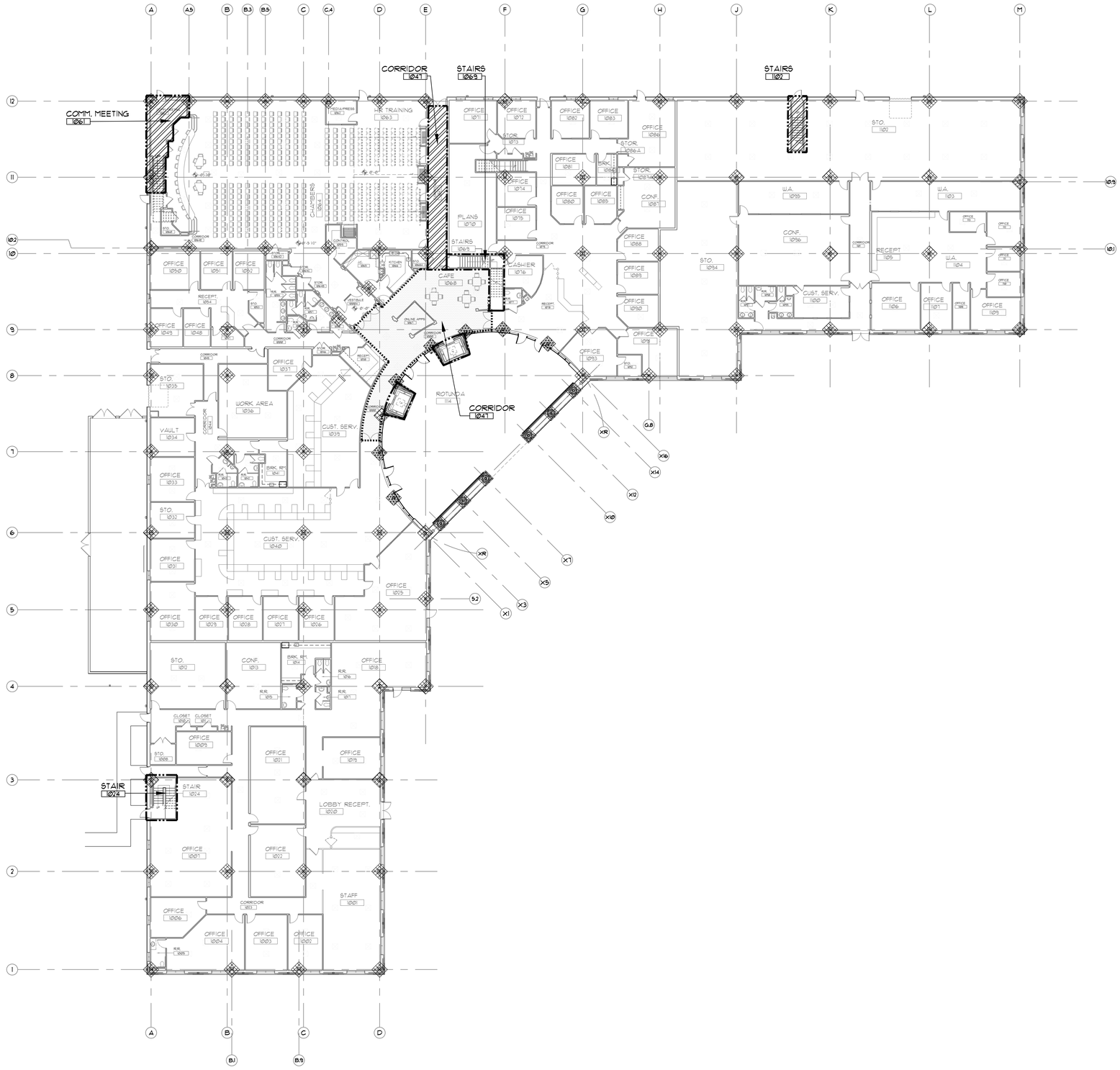
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
LIFE SAFETY PLAN - EXITING - LEVEL 3

SHEET NUMBER:
LS2.3

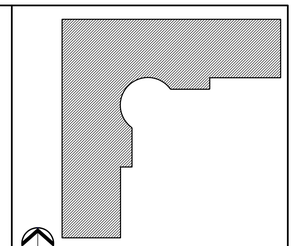
\\fltserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS2.3 LIFE SAFETY PLAN - EXITING - LEVEL 3.dwg, 3/20/2008 3:26:29 PM, djackson



NORTH

FIRST FLOOR - LIFE SAFETY PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION
- EXIT LIGHT
- EMERGENCY LIGHT
- SPRINKLERS
- ONE HOUR RATED GMS/GWB CEILING
- TWO HOUR RATED GMS/GWB CEILING
- SMOKE RATED GMS/GWB CEILING
- ONE HOUR RATED GMS/GWB WALL
- TWO HOUR RATED GMS/GWB WALL
- SMOKE RATED WALL
- TWO HOUR RATED SPRAY FIBER
- TWO HOUR RATED GMS/GWB WALL
- INTUMESCENT RATED PAINT TWO HOURS

FE1 - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 711

FE2 - 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
SCHEMATIC DESIGN	-	-	05/08/06
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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CONSULTANTS:

PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

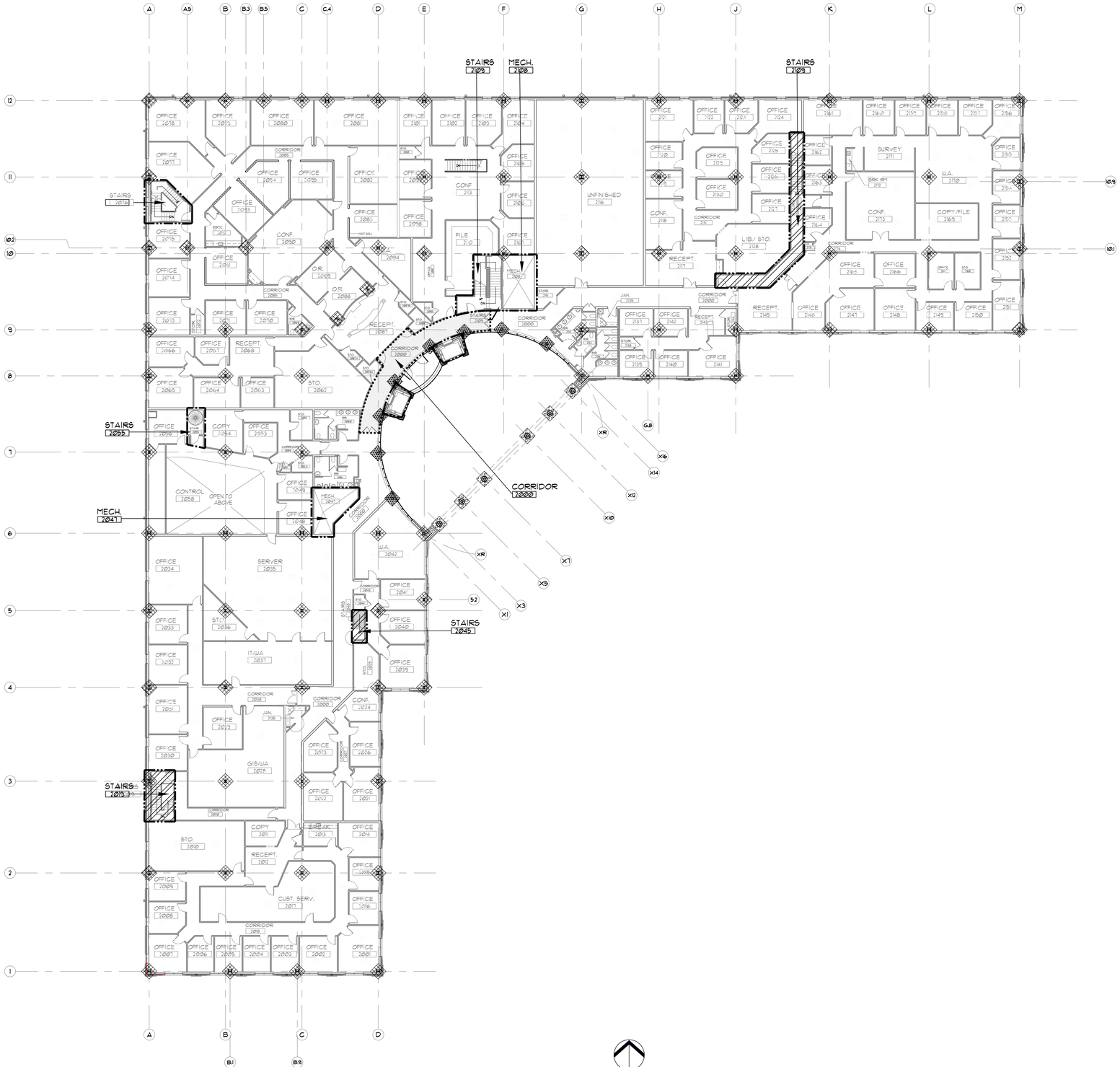
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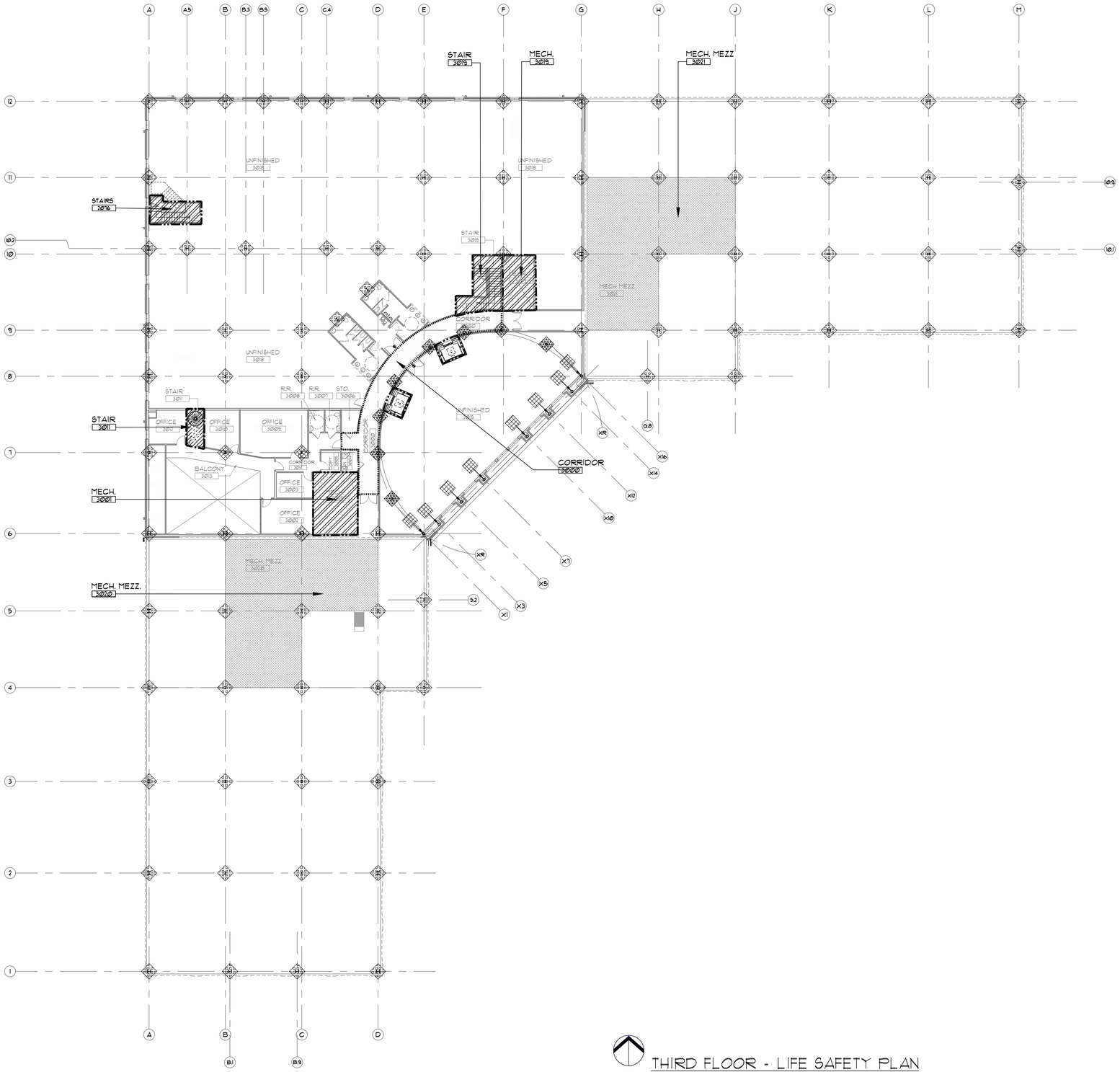
LIFE SAFETY PLAN
CONSTRUCTION RATINGS LEVEL 1

SHEET NUMBER:

LS3.1

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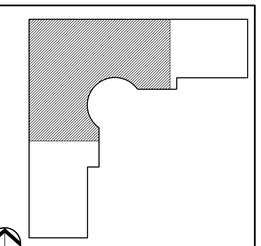

STAIRS 7009
MECH. 7008
STAIRS 7005
STAIRS 7010
STAIRS 7055
MECH. 7041
CORRIDOR 7002
STAIRS 7045
STAIRS 7015
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OFFICE



NORTH

THIRD FLOOR - LIFE SAFETY PLAN

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



NORTH

KEY PLAN

SCALE: N.T.S.

LIFE SAFETY SYMBOL LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE
- CEILING MOUNTED INTERCOM SPEAKER
- SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/ VISUAL WARNING DEVICE
- FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION
- EXIT LIGHT
- EMERGENCY LIGHT
- SPRINKLERS
- ONE HOUR RATED GMS/GWB CEILING
- TWO HOUR RATED GMS/GWB CEILING
- SMOKE RATED GMS/GWB CEILING
- ONE HOUR RATED GMS/GWB WALL
- TWO HOUR RATED GMS/GWB WALL
- SMOKE RATED WALL
- TWO HOUR RATED SPRAY FIBER
- TWO HOUR RATED GMS/GWB WALL
- INTUMESCENT RATED PAINT TWO HOURS

(FE1) - SEMI-RECESSED FIRE EXTINGUISHER MOUNT CENTERLINE OF CABINET CONTROL @ MAX 50" AFF. MUST COMPLY WITH UL 711

(FE2) - BRACKET MOUNTED FIRE EXTINGUISHER - MOUNT TOP OF SUPPORT BRACKET MAX 54" AFF MUST COMPLY WITH UL 711

"CUTTING AND PATCHING: ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED PER NEC 300-21 USING A THROUGH PENETRATION FIRE STOP SYSTEM (XHEZ) LISTED IN THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY."

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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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:

LIFE SAFETY PLAN CONSTRUCTION RATINGS LEVEL 3

SHEET NUMBER:

LS3.3

\\lfhserver\jobs\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\LS3.3 LIFE SAFETY PLAN CONSTRUCTION RATINGS LEVEL 3.dwg, 3/20/2008 3:31:00 PM, cjackson

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 — COUNTER BALANCED 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 FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DRAWINGS OR DIVISION OF THE SPECIFICATIONS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL SECTIONS TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS INSTALLED.
3. CONSTRUCTION SHALL COMPLY WITH LOCAL BUILDING CODES ADOPTED AT TIME OF PERMIT APPLICATION, THE FLORIDA BUILDING CODE 2004 WITH 2005 AND 2006 REVISIONS, THE FLORIDA FIRE PREVENTION CODE 2004 AND THE STATE OF FLORIDA ENERGY CODE.
4. 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.
5. 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, ROOFCAPS AND LOUVERS WITH ELECTRICAL, ARCHITECTURAL, AND PLUMBING WORK. DIFFUSERS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE FROM AT LEAST TWO POINTS.
6. 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 ACCORDANCE WITH SMACNA AND ASHRAE STANDARDS, AND BE COMPLETED BY THE TEST AND BALANCE COMPANY. DUCTS WITH A LEAKAGE RATE MORE THAN 2 % WILL BE REJECTED.
7. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
8. 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).
9. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE. PROVIDE A ONE FOOT LONG PLASTIC STRIP OF MATERIAL FROM ALL DAMPER HANDLES TO ASSIST TEST AND BALANCE AGENCY IN IDENTIFYING ALL DAMPERS. IN AREAS WHERE THE FINAL DAMPER INSTALLATION PROHIBITS ACCESS FOR TEST AND BALANCE, PROVIDE POWER BALANCING DAMPERS AS MANUFACTURED BY UNITED ENERTECH. PROVIDE DAMPER, BATTERY PACK, JACKS AND CAT5 CABLE AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
10. 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.
11. PROVIDE CONICAL SPIN-IN FITTINGS AT ALL CONNECTIONS OF ROUND SHEET METAL OR FLEXIBLE SUPPLY AIR DUCTS TO RIGID RECTANGULAR DUCT.
12. FOR SEALING OF FIRE DAMPER, SMOKE DAMPER, COMBINATION SMOKE AND FIRE DAMPER, AND PIPE OR DUCT PENETRATION THRU FIRE RATED WALLS REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. THE PERIMETER OF SMOKE DAMPER SLEEVE ANGLES SHALL BE SEALED WITH APPROVED CAULKING. ALL PIPE PENETRATIONS SHALL BE SEALED USING APPROVED UL DETAILS.
13. 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".
14. SMOKE AND HIGH TEMPERATURE PROTECTION OF MECHANICAL AIR DISTRIBUTION SYSTEMS.
    a. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED AND WIRED UNDER DIVISION 23 (ELECTRICAL) AT LOCATIONS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED.
    b. MECHANICAL PLANS INDICATE THE APPROXIMATE LOCATION OF DUCT DETECTORS. ASSIST THE SMOKE DETECTOR INSTALLER IN LOCATING AND INSTALLING THE DETECTORS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHEN RECOMMENDED CLEARANCES CAN NOT BE MAINTAINED, SIMULATE A SMOKE AIR FLOW TEST OF EACH DEVICE AND PROVIDE A COPY OF THE FIELD TEST TO THE OWNER'S REPRESENTATIVE.
15. 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.
16. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL AIR MOVING APPARATUS AND DUCTWORK. RECOMMENDED WIDTH IS 4".
17. 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.
18. ALL EQUIPMENT (FANS, AIR HANDLING UNITS, CONDENSING UNITS, 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.
19. ALL WALL MOUNTED TEMPERATURE AND 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.
20. RETAIN THE SERVICES OF A NEBB AND/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.
21. PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES FOR REFRIGERANT AND CONDENSATE DRAIN LINES PENETRATING EXTERIOR WALLS. SEAL VOIDS AROUND PIPING WITH A WEATHERTIGHT PERMANENT NON-SHRINKING SEALANT.
22. REFRIGERANT LINES SHALL BE SIZED AS PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PIPING IS TO BE FILLED WITH DRY NITROGEN WHILE SOLDERING. TEST, CLEAN, AND DEHYDRATE PIPES AND PROVIDE CHARGE OF REFRIGERANT AS PER EQUIPMENT MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY VALVES, TRAPS, FILTER/DRYERS, SIGHT GLASS, ETC. AS REQUIRED FOR A COMPLETE AND READY TO OPERATE INSTALLATION. INCLUDE ACCESSIBLE SERVICE FITTINGS.
23. ALL CHILLED WATER PIPING TO BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS (2-1/2" AND LARGER); SCREWED FITTINGS (2" AND UNDER).
24. 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. (FINISH PAINT TO MATCH EXISTING). SMALLER LINES (1" AND UNDER) AND RUNOUTS TO EQUIPMENT MAY BE INSULATED WITH 1" THICK SEAMLESS CLOSED CELL RUBBER INSULATION. ALL PIPING OUTDOORS SHALL HAVE AN ALUMINUM JACKET.
25. 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.
26. PROVIDE ALL ACCESS PANELS AS MAY BE REQUIRED.

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=20		
	ROOF INSULATION	R=20		
	WINDOW TYPE	DOUBLE PANE IMPACT / LIGHT 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 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.
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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M1.1B	HVAC FIRST FLOOR ZONE B
M1.1C	HVAC FIRST FLOOR ZONE C
M1.2A	HVAC SECOND FLOOR ZONE A
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M4.4	HVAC SCHEDULES
M4.5	HVAC SCHEDULES
M5.1	HVAC CONTROL DIAGRAMS
M5.2	HVAC CONTROL DIAGRAMS
M6.1	HVAC DETAILS
M6.2	HVAC DETAILS

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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EB 0003962
PROJECT NUMBER: 07014

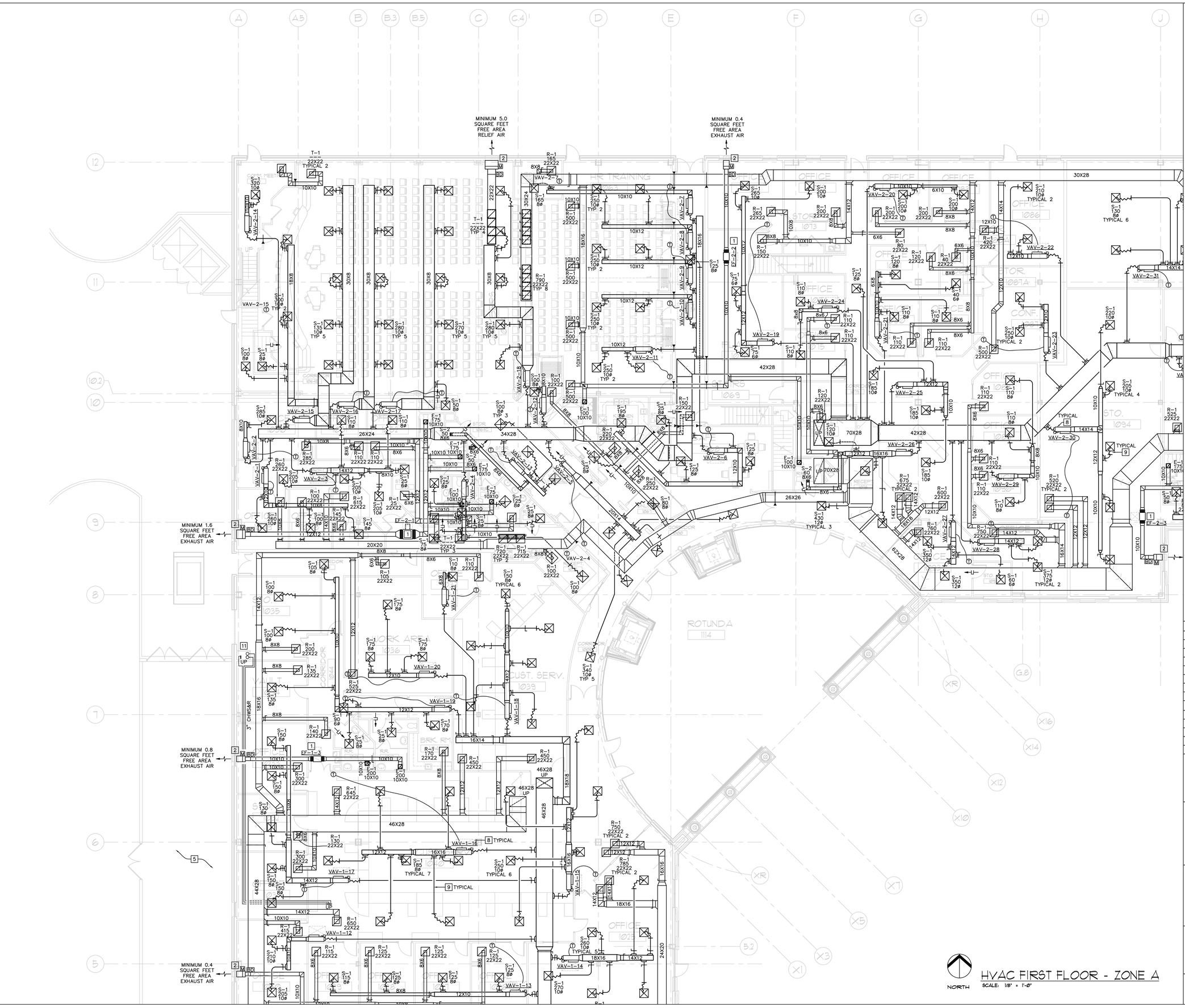
SIGNATURE DATE
JOHN W. WELLS, III, PE
PE 0049347

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC LEGENDS, NOTES, AND SYMBOLS

SHEET NUMBER:
M0.1



HVAC FIRST 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. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1. COORDINATE EXACT LOCATION OF UNIT AND SUPPLY AIR DEVICES WITH SERVER EQUIPMENT IN ROOM. ROUTE CONDENSATE PIPING TO FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
7. VAV BOXES AND AIR DEVICES IN THIS AREA TO BE DESIGNED AND INSTALLED BY FUTURE TENANT.
8. 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. REFER TO VAV SCHEDULE FOR INLET DUCTWORK CONNECTION SIZE.
9. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.
10. LEAVE END OF DUCTWORK OPEN FOR TEMPORARY COOLING OF SPACE UNTIL TENANT BUILDOUT.
11. CHASE FOR CHILLED WATER AND REFRIGERANT PIPING RISERS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S SPECIFICATIONS.

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	.	.	08-06-07
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

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PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0000362
PROJECT NUMBER: 07014

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

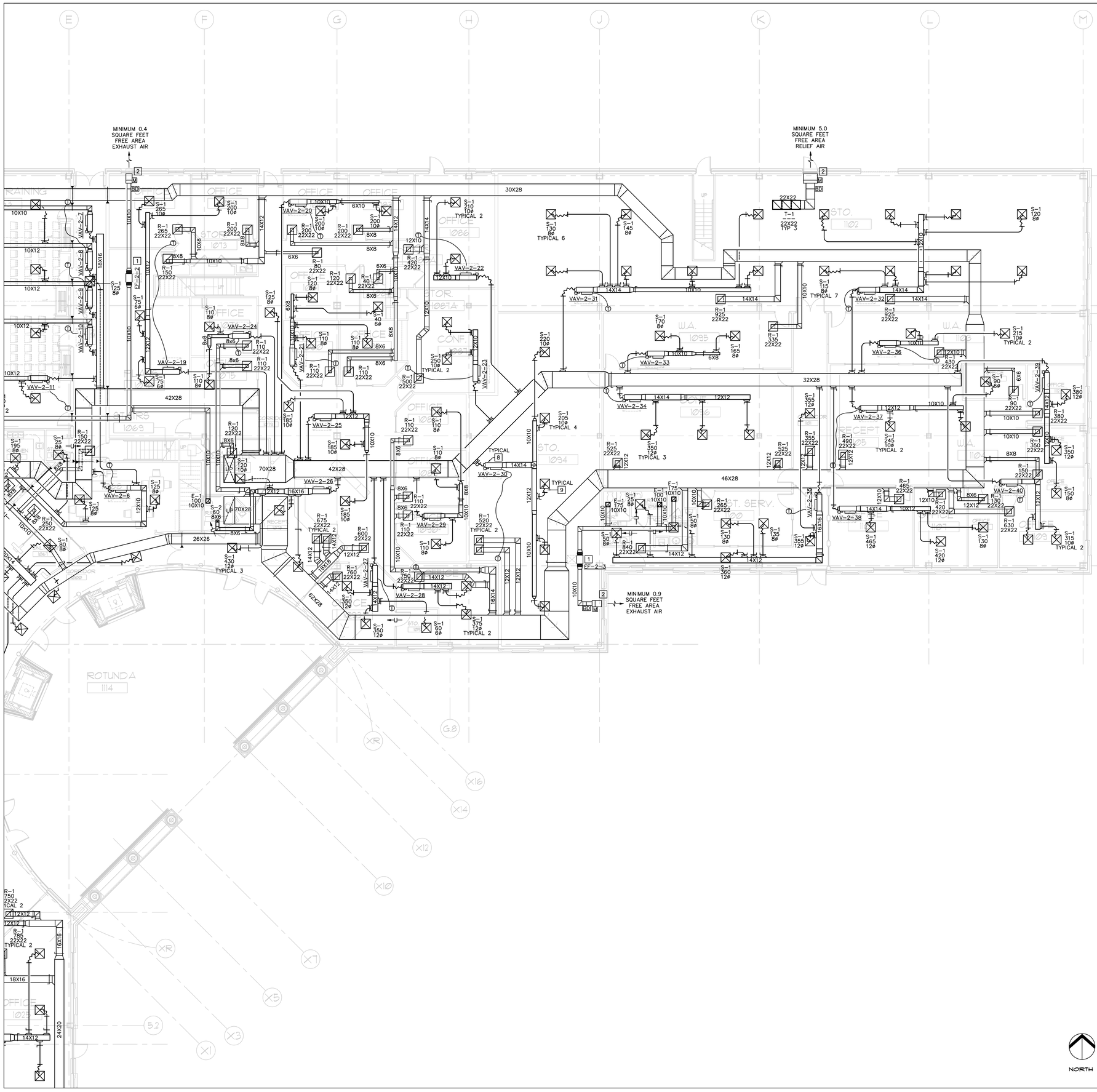
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC FIRST FLOOR ZONE A

SHEET NUMBER:
M1.1A



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.
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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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CA 00003962
PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

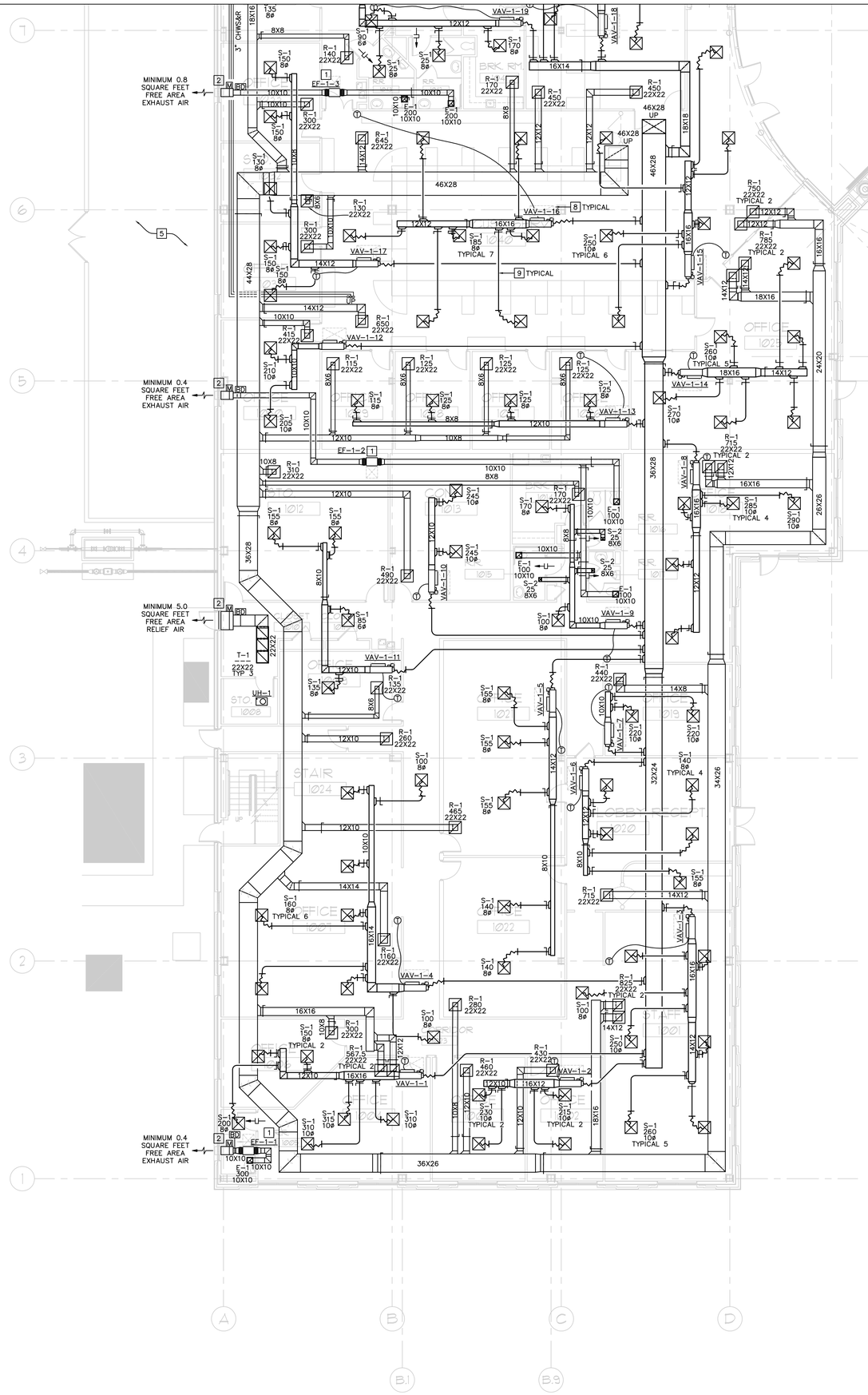
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC FIRST FLOOR ZONE B

SHEET NUMBER:

M1.1B



HVAC CODED NOTES:

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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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ER 0002062
PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

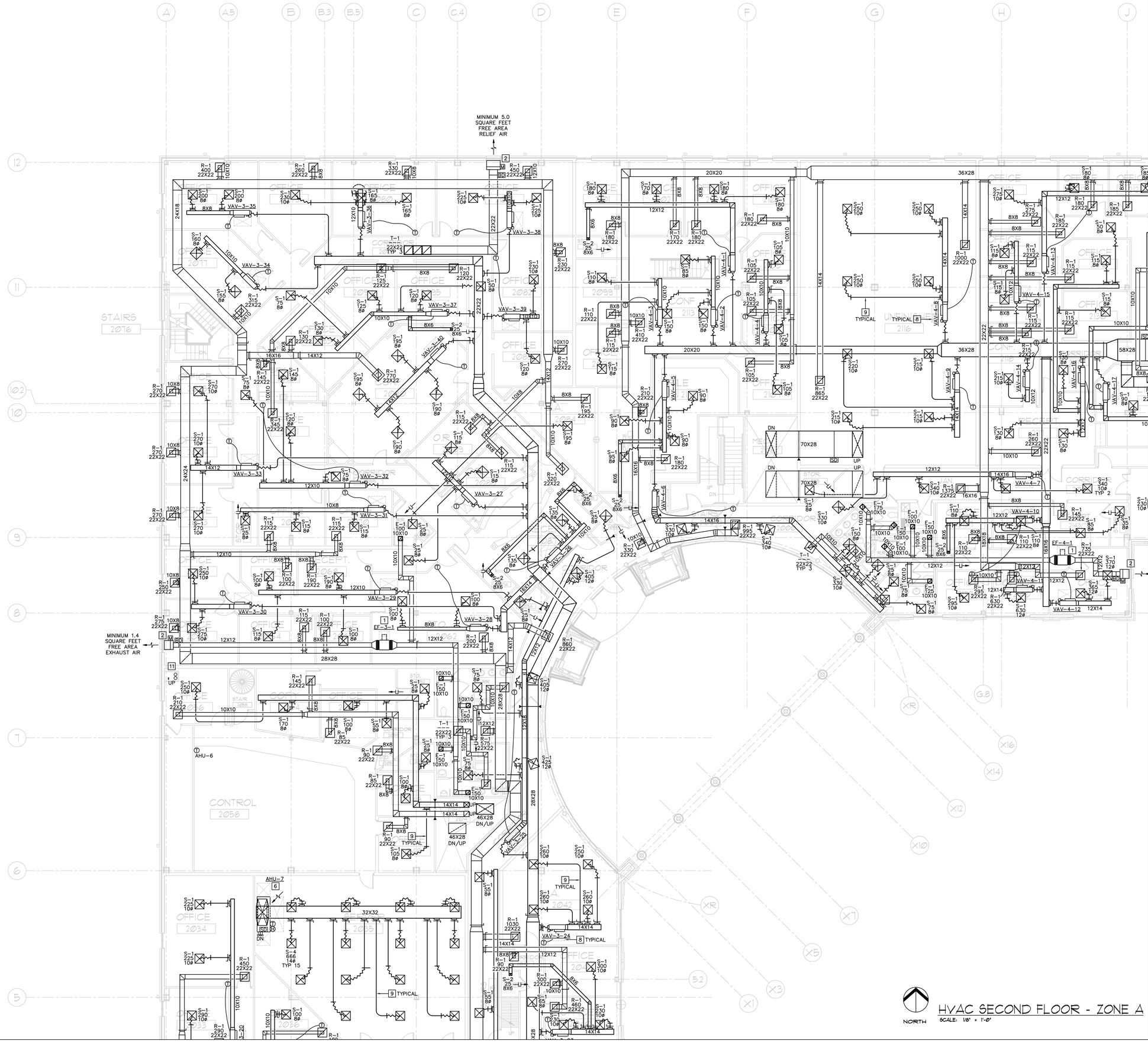
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC FIRST FLOOR ZONE C

SHEET NUMBER:
M1.1C

NORTH

HVAC FIRST FLOOR - ZONE C
SCALE: 1/8" = 1'-0"



HVAC CODED NOTES:

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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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8365 QUINN HIGHWAY
TAMPA, FLORIDA 33626
PHONE: (813) 448-0225
FAX: (813) 448-0238
CEA ID: 07014
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 SECOND FLOOR ZONE A

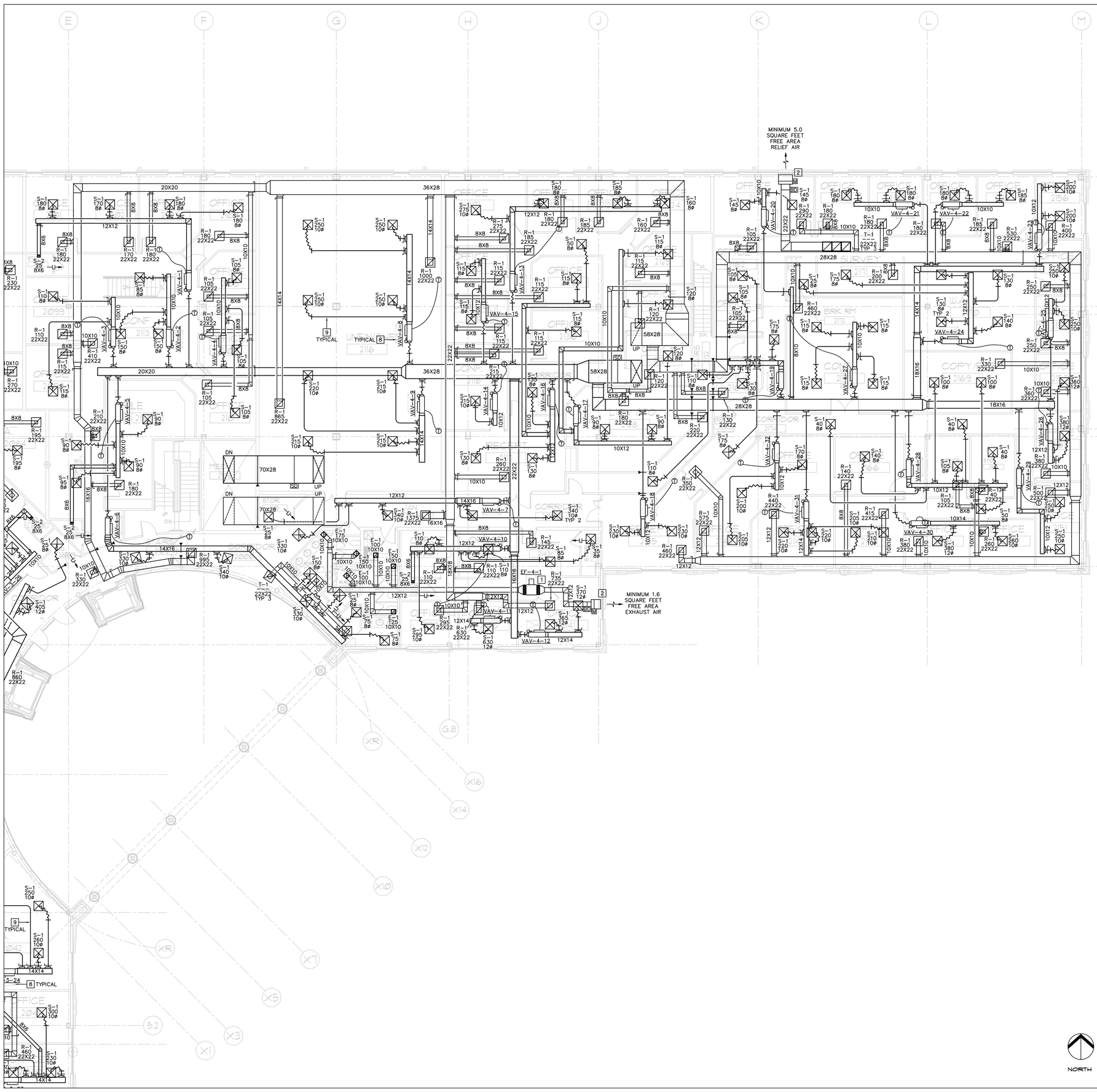
SHEET NUMBER:

M1.2A

NORTH

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.
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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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TAMPA, FLORIDA 33626
PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0000382
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 B

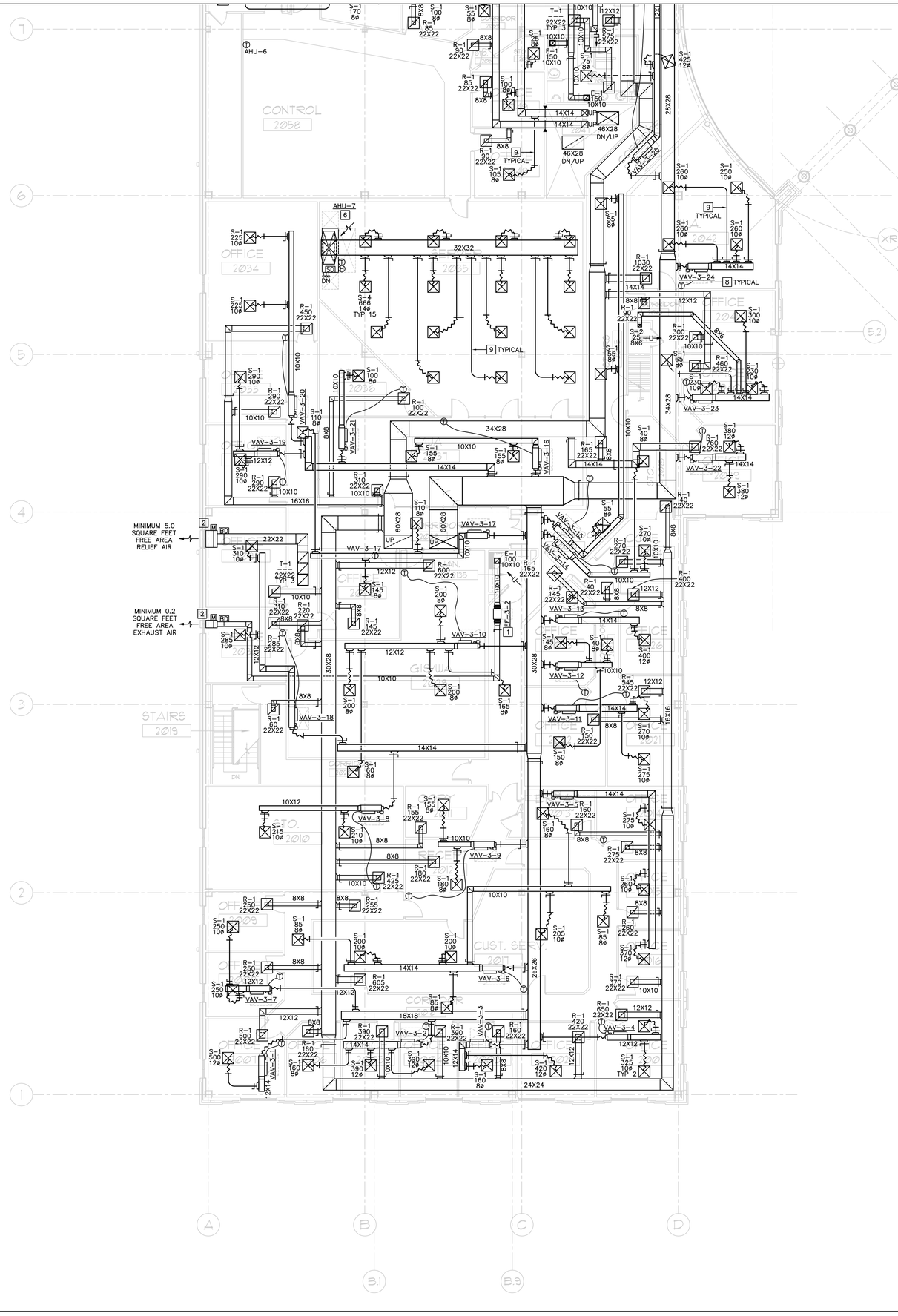
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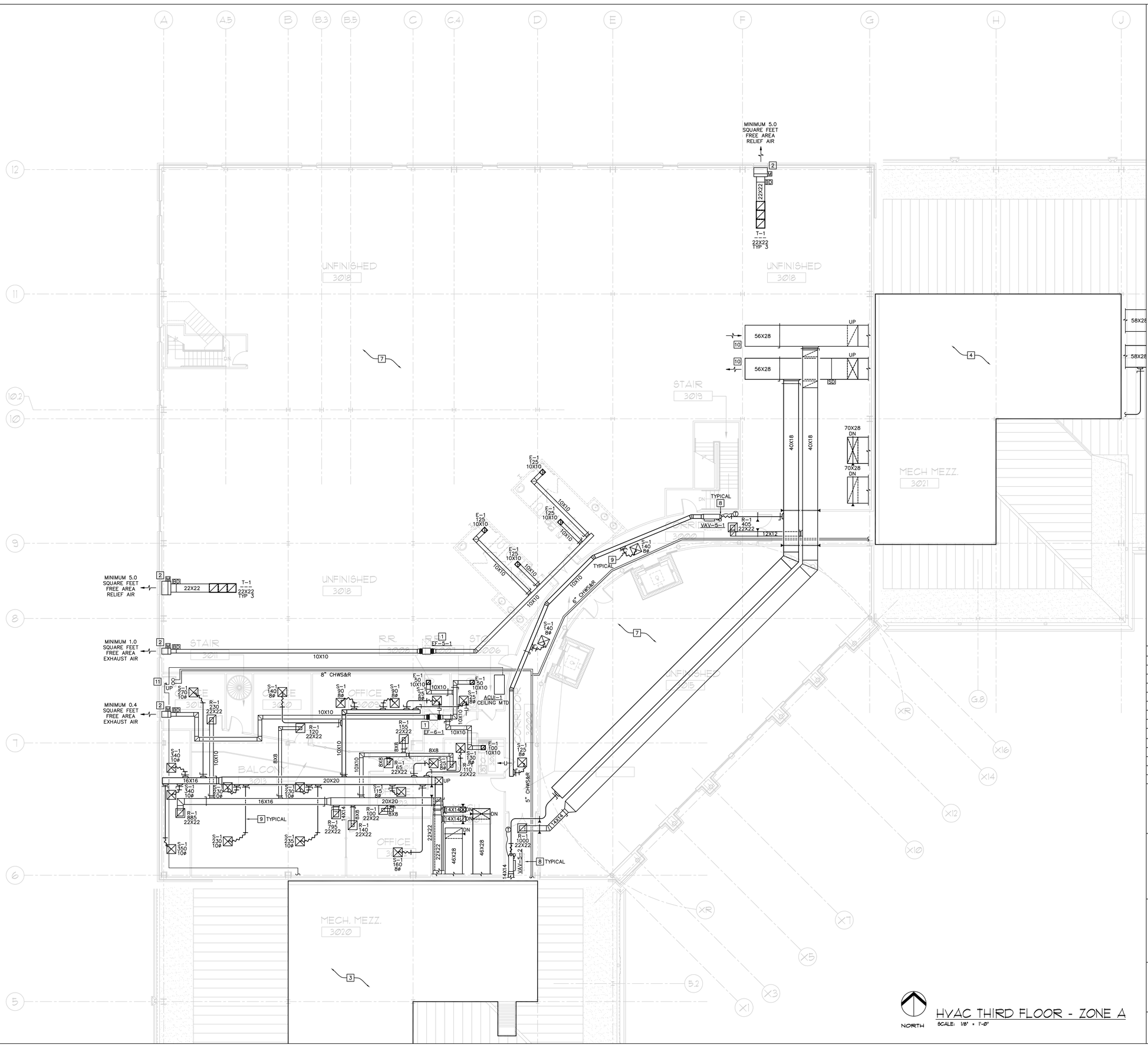
M1.2B

NORTH

HVAC SECOND FLOOR - ZONE B

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


AHU-6
AHU-7
CONTROL 2058
OFFICE 2034
OFFICE 2035
OFFICE 2036
OFFICE 2037
OFFICE 2038
OFFICE 2039
OFFICE 2040
OFFICE 2041
OFFICE 2042
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OFFICE 2054
OFFICE 2055
OFFICE 2056
OFFICE 2057
STAIRS 2019
CUST. SERV. 2017
CORRIDOR 2018
CORRIDOR 2059
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CORRIDOR 2073
CORRIDOR 2074
CORRIDOR 2075
CORRIDOR 2076
CORRIDOR 2077
CORRIDOR 2078
CORRIDOR



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.
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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	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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EB 00003962
PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347
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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

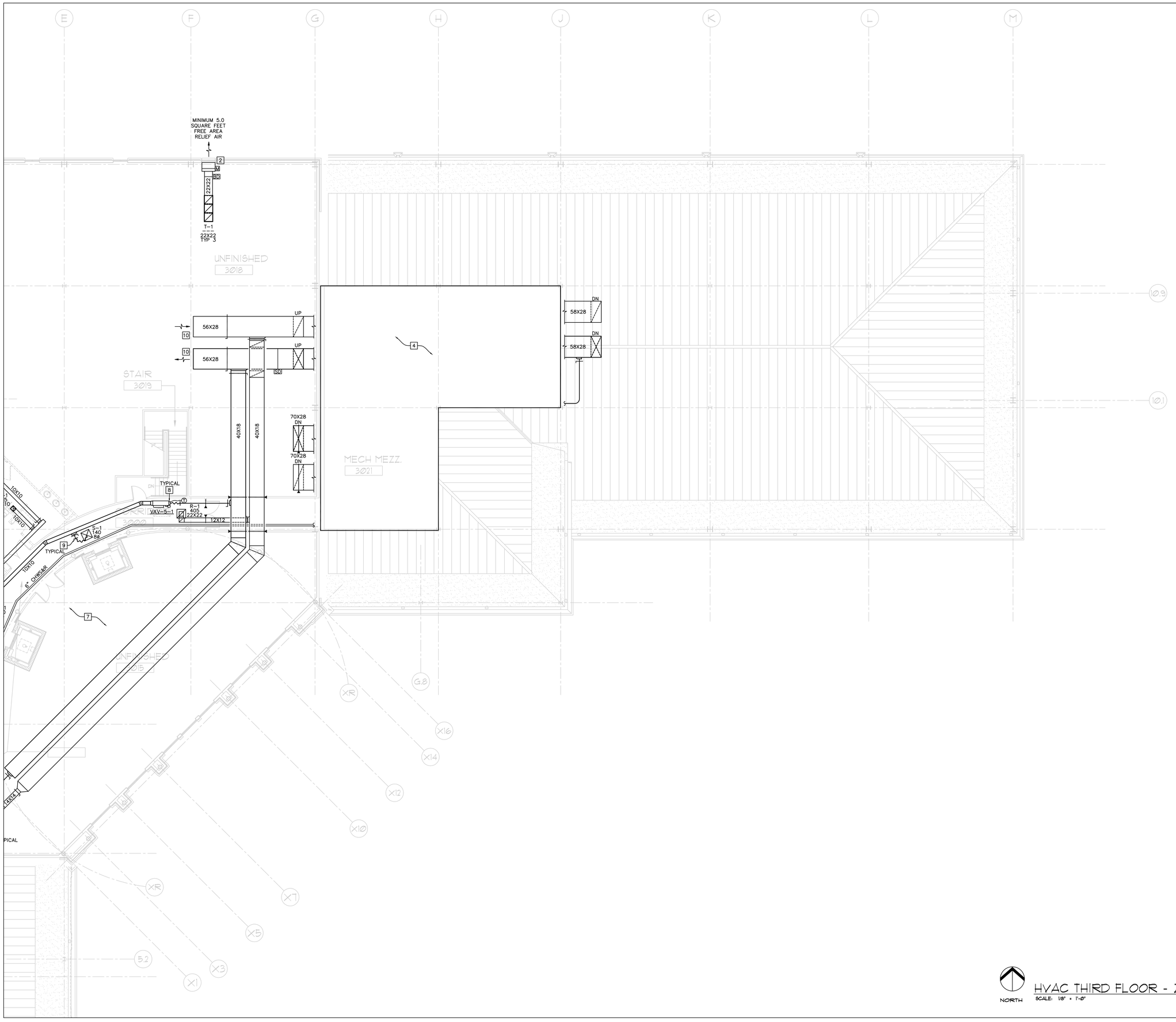
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC THIRD FLOOR
ZONE A

SHEET NUMBER:

M1.3A



NORTH

HVAC THIRD FLOOR - ZONE B

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

HVAC CODED NOTES:

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6. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1. COORDINATE EXACT LOCATION OF UNIT AND SUPPLY AIR DEVICES WITH SERVER EQUIPMENT IN ROOM. ROUTE CONDENSATE PIPING TO FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
7. VAV BOXES AND AIR DEVICES IN THIS AREA TO BE DESIGNED AND INSTALLED BY FUTURE TENANT.
8. 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. REFER TO VAV SCHEDULE FOR INLET DUCTWORK CONNECTION SIZE.
9. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.
10. LEAVE END OF DUCTWORK OPEN FOR TEMPORARY COOLING OF SPACE UNTIL TENANT BUILDOUT.
11. CHASE FOR CHILLED WATER AND REFRIGERANT PIPING RISERS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S SPECIFICATIONS.

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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FAX: (813) 448-0226
EB 00003962
PROJECT NUMBER: 07014

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

BAY COUNTY ADMINISTRATION BUILDING

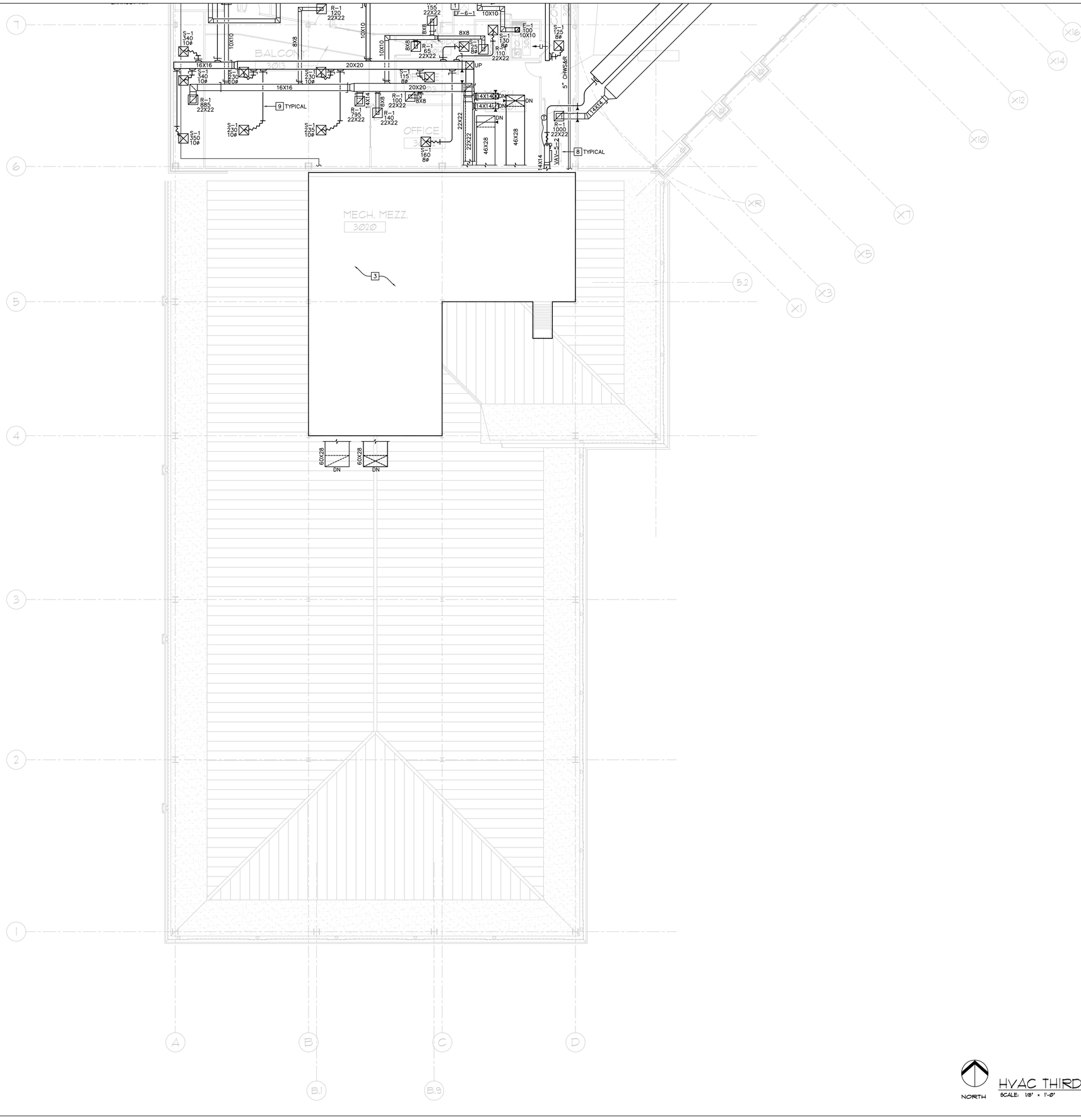
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC THIRD FLOOR ZONE B

SHEET NUMBER:

M1.3B



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. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1. COORDINATE EXACT LOCATION OF UNIT AND SUPPLY AIR DEVICES WITH SERVER EQUIPMENT IN ROOM. ROUTE CONDENSATE PIPING TO FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
7. VAV BOXES AND AIR DEVICES IN THIS AREA TO BE DESIGNED AND INSTALLED BY FUTURE TENANT.
8. 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. REFER TO VAV SCHEDULE FOR INLET DUCTWORK CONNECTION SIZE.
9. SUPPLY AIR DUCTWORK RUNOUT TO BE THE SAME SIZE AS THE ASSOCIATED DIFFUSER NECK SIZE.
10. LEAVE END OF DUCTWORK OPEN FOR TEMPORARY COOLING OF SPACE UNTIL TENANT BUILDOUT.
11. CHASE FOR CHILLED WATER AND REFRIGERANT PIPING RISERS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S SPECIFICATIONS.

NOTE:

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NORTH

HVAC THIRD FLOOR - ZONE C

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

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PROJECT:

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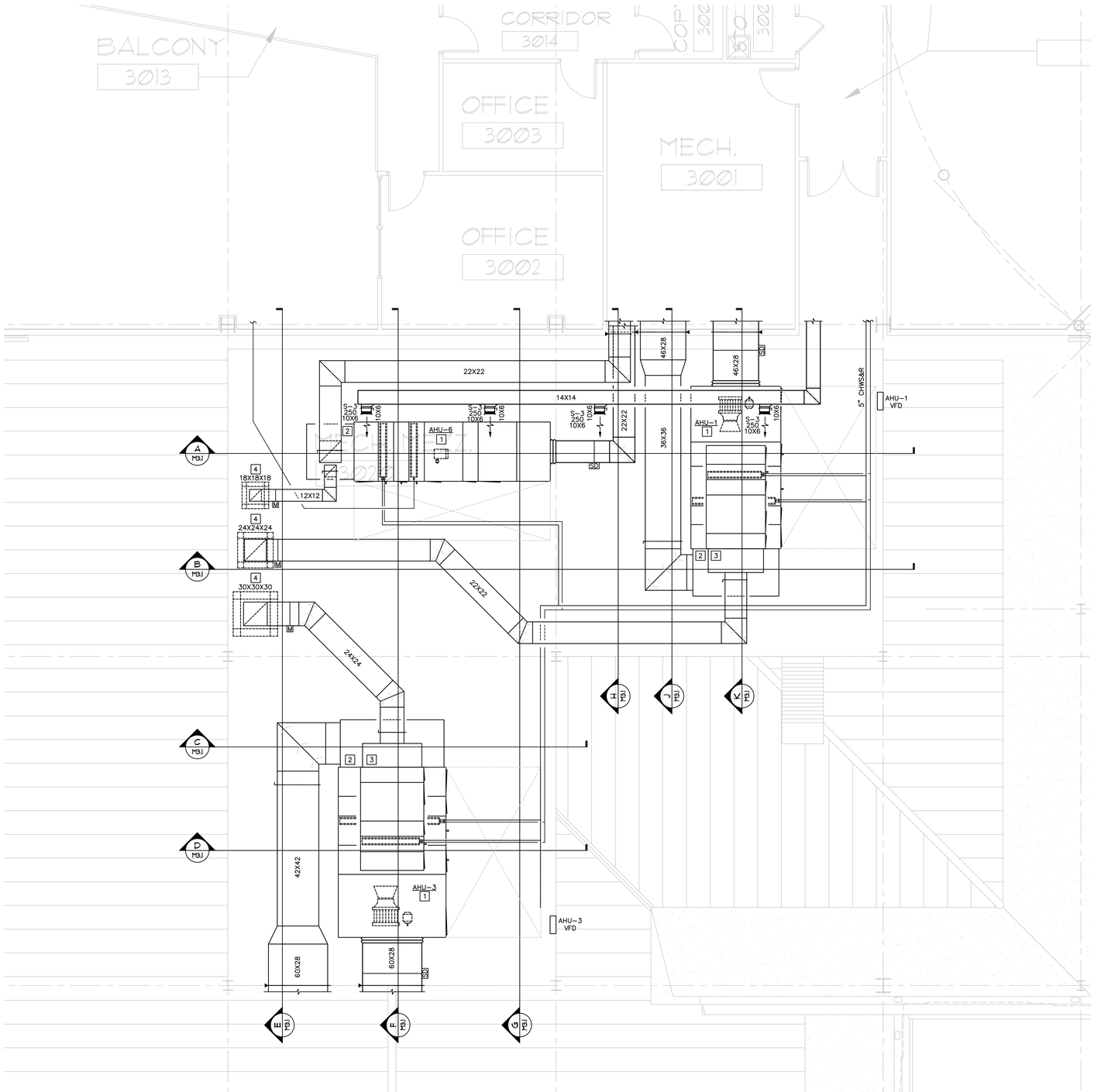
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC THIRD FLOOR ZONE C

SHEET NUMBER:

M1.3C



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. ROUTE CONDENSATE PIPING TO NEAREST FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
2. PROVIDE 48" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR RETURN AIR DUCT CONNECTION.
3. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR OUTSIDE AIR DUCT CONNECTION.
4. PROVIDE ROOF HURRICANE LOUVERED PENTHOUSE EQUAL TO RUSKIN MODEL PHB63750XD. SIZE AS SHOWN. PAINT TO MATCH ROOF COLOR.

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
100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

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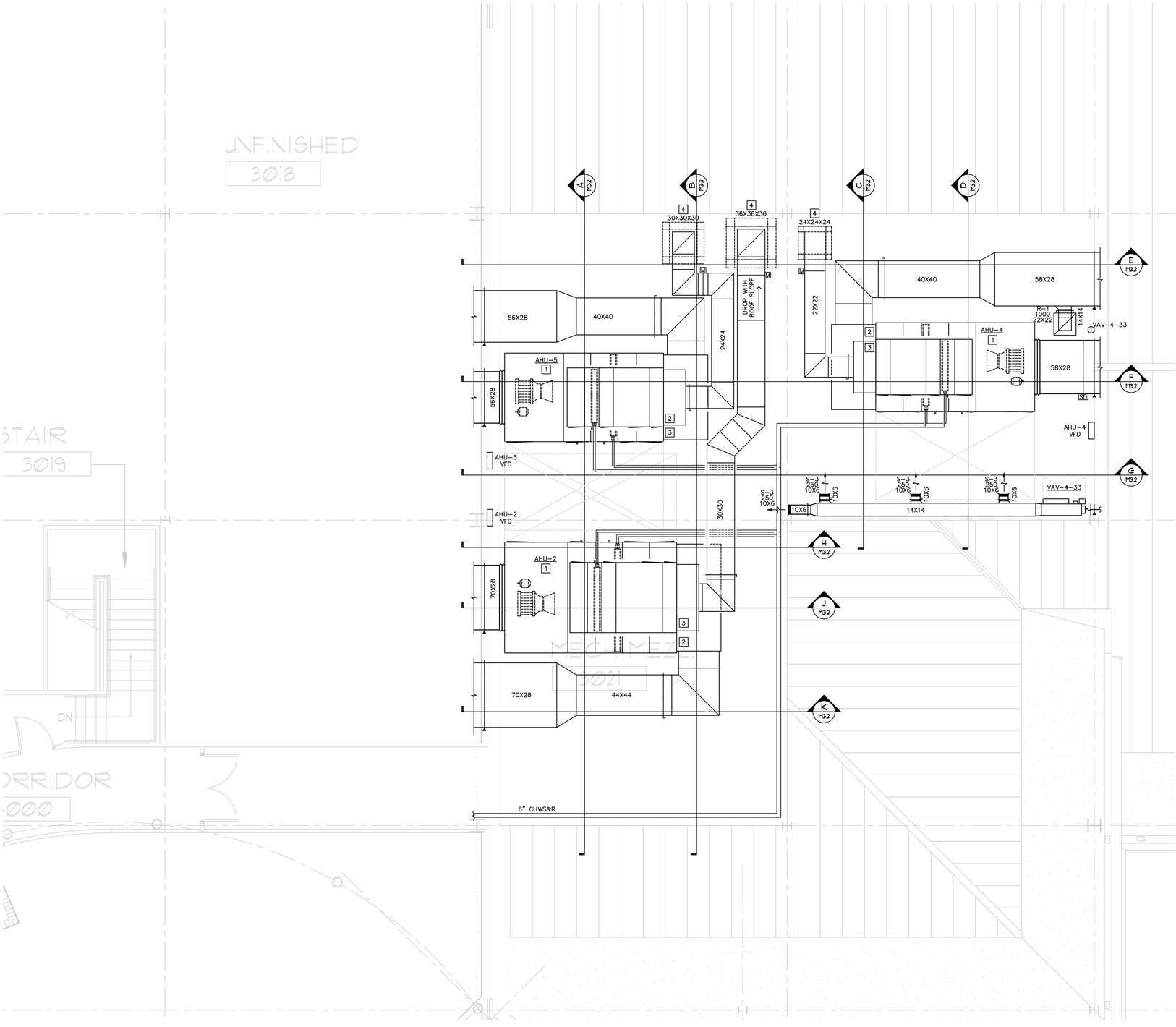
PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC ENLARGED MEZZANINE FLOOR

SHEET NUMBER:

M2.1



HVAC CODED NOTES:

1. REFER TO AIR HANDLING UNIT SUPPORT DETAIL ON SHEET M6.1. ROUTE CONDENSATE PIPING TO NEAREST FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
2. PROVIDE 48" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR RETURN AIR DUCT CONNECTION.
3. PROVIDE 24" DEEP EXTERNALLY INSULATED SHEET METAL PLENUM BOX ON BACK SIDE OF UNIT FOR OUTSIDE AIR DUCT CONNECTION.
4. PROVIDE ROOF HURRICANE LOUVERED PENTHOUSE EQUAL TO RUSKIN MODEL PHB63750XD. SIZE AS SHOWN. PAINT TO MATCH ROOF COLOR.

NOTE:

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HVAC ENLARGED MEZZANINE FLOOR

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

NORTH

REVISIONS:

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DESIGN DEVELOPMENT	·	·	06-06-07
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100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

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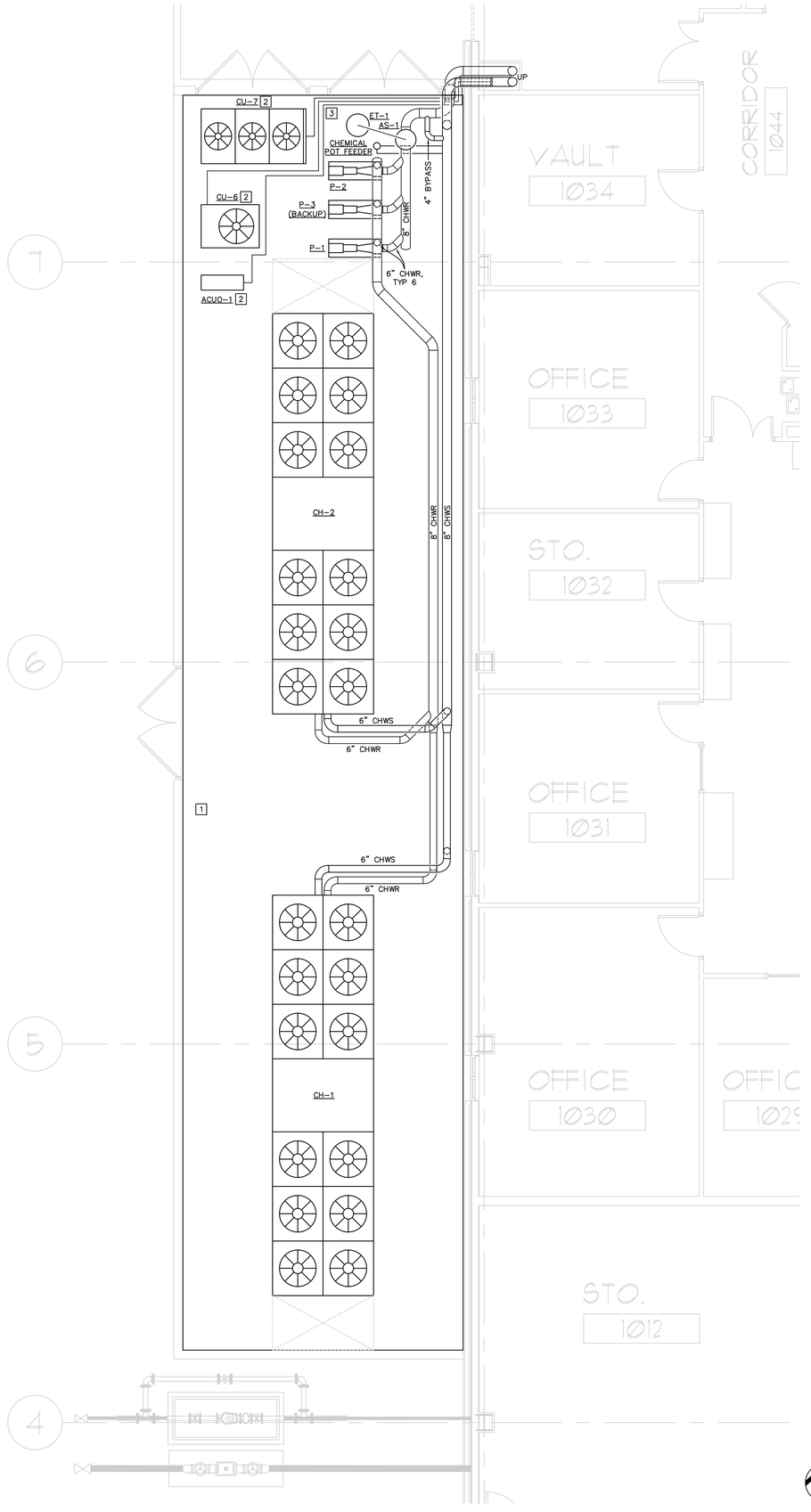
PANAMA CITY, FLORIDA

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.
2. REFER TO CONDENSING UNIT DETAIL ON SHEET M6.2 FOR SUPPORT.
3. SIZE REFRIGERANT PIPING PER MANUFACTURER'S SPECIFICATIONS. PAINT ALL EXPOSED PIPING INSULATION WITH TWO COATS OF WHITE ARMAFLEX PAINT.

NOTE:

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75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
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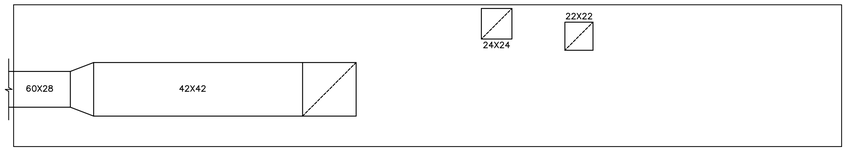
PANAMA CITY, FLORIDA

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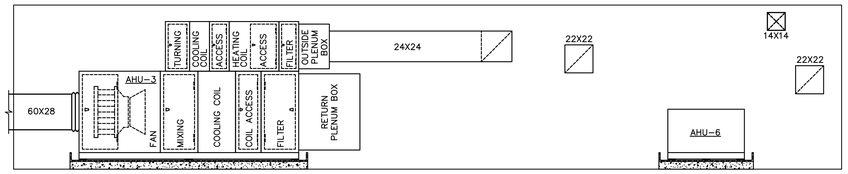
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SHEET NUMBER:

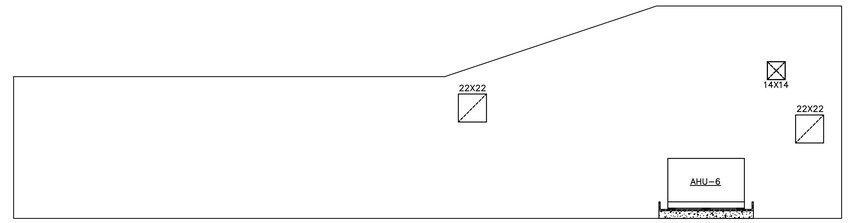
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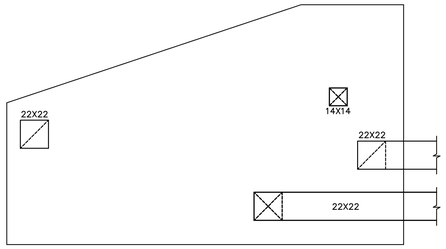
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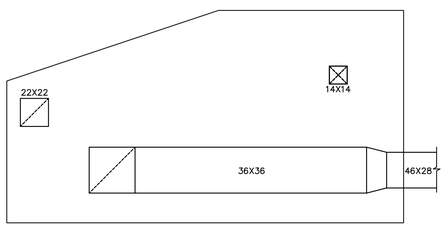
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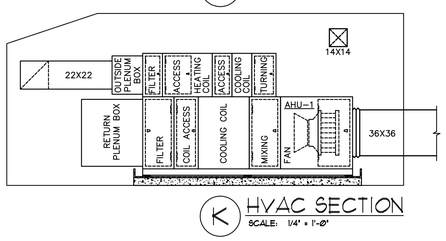
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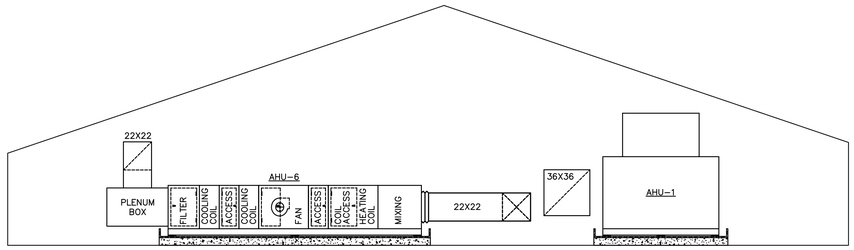
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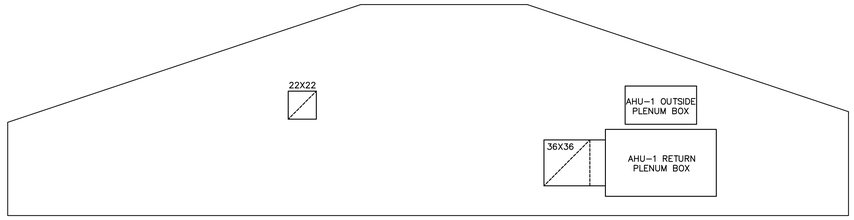
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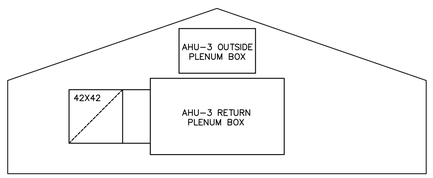
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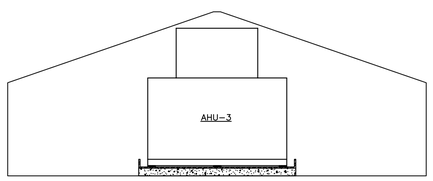
A HVAC SECTION
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B HVAC SECTION
SCALE: 1/4" = 1'-0"



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



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

REVISIONS:

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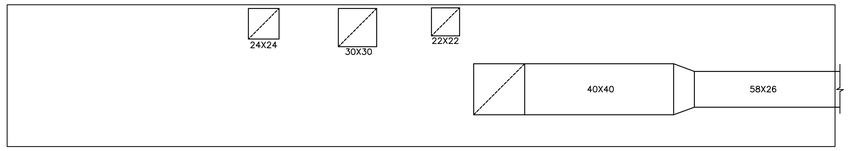
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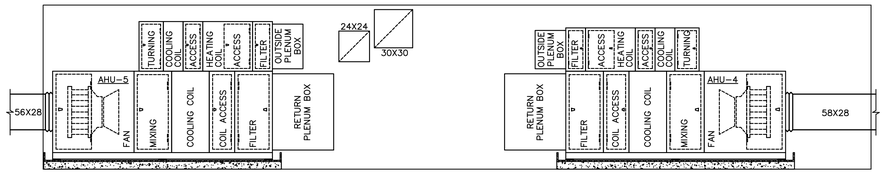
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ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SECTIONS

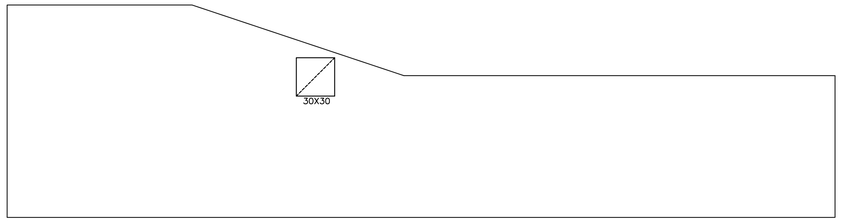
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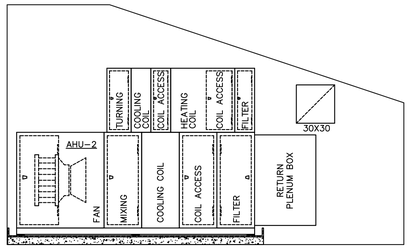
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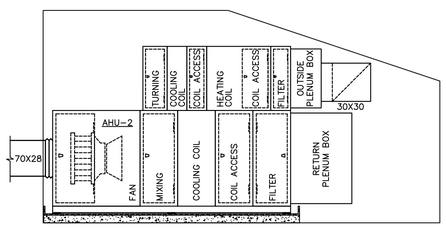
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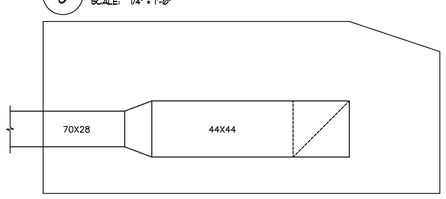
G HVAC SECTION
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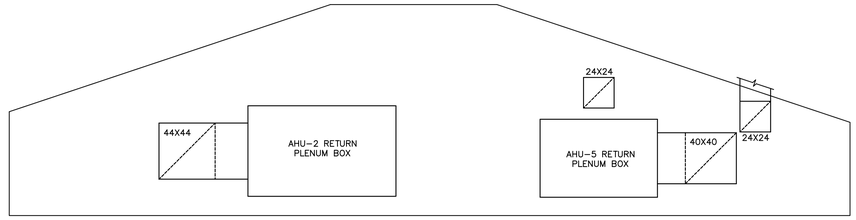
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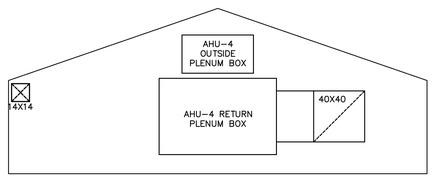
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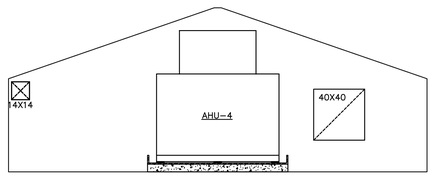
A HVAC SECTION
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B HVAC SECTION
SCALE: 1/4" = 1'-0"



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



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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 rooms	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	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	5	5	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	0	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*Ra		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	3	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*Ra		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	5	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*Ra		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	12	7.5	7.5	7.5	7.5	12	15	8.1	8.1	42.6	7.8	7.8	9.9	13.56	6.42	75	13.2	37.2	12.6	13.8	10.2	6	12	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)	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	Office space	Corridors	Corridors	Storage rooms	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	0	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*Ra		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*Ra		0	5	5	20	0	5	5	5	5	0	5	30	5	5	200	0	5	5	5	5	5	5	10	15
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*Ra		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	.	.	08-08-07
75% CONSTRUCTION DOCUMENTS	.	.	11-16-07
100% PROGRESS SET	.	.	01-18-08
BID DOCUMENTS	.	.	03-03-08

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CONSULTING ENGINEERING ASSOCIATES, INC.

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

		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	Corridors	Storage rooms	Storage rooms	Storage rooms	Storage rooms	Office space	Storage rooms	Office space	Office space	Office space
Az	ZONE FLOOR AREA (SQ FT)	180	145	155	175	28	838	145	160	145	185	150	300	356	2609	908	115	188	45	48	115	22	115	115	115
Pz	ZONE POPULATION (# OF PEOPLE)	1	1	1	1	0	10	1	1	1	1	1	1	3	13	0	0	0	0	0	1	0	1	1	1
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	5	5	5	5	0	5	5	5	5	5	5	5	5	5	0	0	0	0	0	5	0	5	5	5
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	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
Pz*Rp		5	5	5	5	0	50	5	5	5	5	5	5	15	65	0	0	0	0	0	5	0	5	5	5
Az*Ra		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
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.	16	14	14	16	3	100	14	15	14	16	14	23	36	222	54	14	23	5	6	12	3	12	12	12
Vpz	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
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	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
Zp	PRIMARY OUTSIDE AIR FRACTION	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

		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
Az	ZONE FLOOR AREA (SQ FT)	204	220	70	905	245	130	130	255	140	140	110	128	137	140	405	125	120	500	270	140	140	140	145	130
Pz	ZONE POPULATION (# OF PEOPLE)	0	1	0	9	8	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	0	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	5	5	5	5
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	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
Pz*Rp		0	5	0	45	40	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	5	5	5	5
Az*Ra		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
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.	12	18	8	99	55	13	13	20	13	13	12	13	13	13	29	13	12	30	21	13	13	13	14	13
Vpz	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
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	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
Zp	PRIMARY OUTSIDE AIR FRACTION	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

		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
Az	ZONE FLOOR AREA (SQ FT)	675	110	115	118	145	180	128	128	215	265	190	290	260	190	100	100	290	600	22	106	100	100	305	854
Pz	ZONE POPULATION (# OF PEOPLE)	4	1	1	1	1	1	1	1	1	1	1	5	1	1	1	0	1	15	0	1	1	1	2	0
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5	5	0	5	5	5	5	0
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	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
Pz*Rp		20	5	5	5	5	5	5	5	5	5	5	25	5	5	5	0	5	75	0	5	5	5	10	0
Az*Ra		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
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.	61	12	12	12	14	16	13	13	18	21	16	42	21	16	11	12	22	111	3	11	11	11	28	51
Vpz	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
Vpzm	MINIMUM PRIMARY AIRFLOW TO ZONE (CFM)	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
Zp	PRIMARY OUTSIDE AIR FRACTION	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

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

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

		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	Office space
Az	ZONE FLOOR AREA (SQ FT)	150	118	35	195	66	141	198	167	198	1406	179	180	130	40	40	50	52	125	245	
Pz	ZONE POPULATION (# OF PEOPLE)	1	1	0	0	0	1	1	1	0	4	1	1	10	0	0	0	1	1	1	
Rp	TABLE 6.1 PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	5	5	0	0	0	5	5	5	0	0	5	5	5	0	0	0	5	5	5	
Ra	TABLE 6.1 AREA OUTSIDE AIR RATE (CFM/SQ FT)	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	
Pz*Rp		5	5	0	0	0	5	5	5	0	0	5	5	50	0	0	0	5	5	5	
Az*Ra		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	
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	
Voz	OUTSIDE AIR CORRECTED FOR Z.A.D.E.	14	12	4	12	8	13	17	15	24	169	16	16	58	5	5	3	8	13	20	
Vpz	PRIMARY AIRFLOW TO ZONE (CFM)	105	100	25	55	25	100	170	250	1030	925	270	140	180	25	25	25	130	115	160	
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	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–3–2	---	100
EF–4–1	---	800
EF–5–1	---	500
EF–6–1	---	200
BUILDING TOTAL:	23700	4750

18950 CFM POSITIVE BUILDING PRESSURE

NOTE:
PRESSURE RELIEVED VIA PRESSURE RELIEF DAMPER/DUCT ASSEMBLIES THROUGHOUT THE BUILDING.

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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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	25/3
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	35/4	75/8	45/5	35/4	45/5
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	8/10
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	349,100
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	1053	1173	1011	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	227	227
WATER FLOW	GPM	543	543
AMBIENT TEMP	DEG F	95	95
WATER TEMP (ENT/LVG)	DEG F/DEG F	55/45	55/45
MAX WATER PRESS. DROP	FT HD	16.4	16.4
REFRIGERANT TYPE	---	R-134a	R-134a
INDEPENDENT CIRCUITS	NO.	2	2
STEPS OF CAPACITY	NO.	INFINITE	INFINITE
FAN	NO.	14	14
FAN MOTOR (EACH)	HP/BHP	1.5	1.5
FAN (FLA EACH)	AMPS	2.8	2.8
COMPRESSOR	NO.	2	2
COMPRESSOR (RLA EACH)	AMPS	194/162	194/162
COMPRESSOR (LRA EACH)	AMPS	346/285	346/285
ARI CERTIFIED EFF. STANDARD 550	IPLV	14.0	14.0
100%	EER	10.2	10.2
75%	EER	12.8	12.8
50%	EER	14.9	14.9
25%	EER	15.2	15.2
TOTAL UNIT EER	---	10.2	10.2
TOTAL UNIT MCA	AMPS	444	444
TOTAL UNIT MOCP	AMPS	600	600
ELECTRICAL	V/PH/HZ	480/3/60	480/3/60
WEIGHT	LBS	21000	21000
MANUFACTURER	---	TRANE	TRANE
MODEL	---	RTAC225HE	RTAC225HE
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 ALUMINUM 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.

UNIT HEATER WITH ELECTRIC HEAT SCHEDULE		
MARK	---	UH-1
TOTAL CAPACITY	KW/STEPS	5/1
TOTAL CAPACITY	BTUH	17100
TOTAL AIR FLOW	CFM	400
COIL MAX FACE VEL.	FPM	1030
DELTA AIR TEMP	DEG F	40
FAN MOTOR	WATTS	6
FAN SPEED	RPM	1550
TOTAL UNIT MCA	AMPS	18.1
TOTAL UNIT MOCP	AMPS	25
ELECTRICAL	V/PH/HZ	277/1/60
MANUFACTURER	---	ERINCRAFT
MODEL	---	HD527
NOTES	---	1,2,3,4,5

NOTES:
1. PROVIDE SINGLE POINT POWER CONNECTION.
2. PROVIDE FACTORY INTERNAL DISCONNECT SWITCH.
3. PROVIDE FACTORY INTERNAL ADJUSTABLE THERMOSTAT.
4. PROVIDE PROPELLER FAN TYPE.
5. PROVIDE DOWNFLOW STYLE AND ADJUSTABLE VANE DIFFUSER

DIRECT EXPANSION DUCTLESS STRAIGHT COOL AIR CONDITIONER SCHEDULE		
INDOOR UNIT		
MARK	---	ACIU-1
COOLING CAPACITY	BTUH	30000
SEER	---	13
TOTAL UNIT MCA	AMPS	1.0
TOTAL UNIT MOCP	AMPS	15
ELECTRICAL	V/PH/HZ	208/1/60
MANUFACTURER	---	MITSUBISHI
MODEL	---	PCA-A30GA
NOTES	---	1,2,3,4
OUTDOOR UNIT		
MARK	---	ACUO-1
REFRIGERANT TYPE	---	R-410A
TOTAL UNIT MCA	AMPS	25
TOTAL UNIT MOCP	AMPS	30
ELECTRICAL	V/PH/HZ	208/1/60
MANUFACTURER	---	MITSUBISHI
MODEL	---	PUY-A30NHA
NOTES	---	1,2,5

NOTES:
1. PROVIDE SEPARATE POWER CONNECTIONS FOR INDOOR AND OUTDOOR UNIT.
2. PROVIDE ALL ACCESSORIES AS REQUIRED FOR LONG REFRIGERAN PIPING LENGTH.
3. PROVIDE REMOTE CONTROLLER.
4. PROVIDE FACTORY LOCKING MOUNTING BRACKET FOR REMOTE CONTROLLER. FINAL LOCATION OF BRACKET BY ARCHITECT / OWNER IN FIELD.
5. DISCONNECT FOR OUTDOOR UNIT ONLY FURNISHED AND INSTALLED BY DIVISION 26.

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-3-2	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	EXHAUST AIR
AIR QUANTITY	CFM	300	300	400	800	200	450	700	100	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	0.5
FAN TYPE	---	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE
DRIVE	---	DIRECT	DIRECT	DIRECT	BELT	DIRECT	DIRECT	BELT	DIRECT	BELT	DIRECT	DIRECT
SONES	---	5.8	5.8	5.7	5.7	5.0	5.9	5.4	5.0	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	1/6
FAN SPEED	RPM	1311	1311	1376	872	1158	1405	851	1158	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	120/1/60
WEIGHT	LBS	103	103	103	218	103	103	218	103	218	103	103
MANUFACTURER	---	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL	---	100SQN10D	100SQN10D	100SQN15D	165SQN-HP	100SQN10D	100SQN15D	165SQN-HP	100SQN10D	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	1,2,3,4	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.

PUMP SCHEDULE				
MARK	---	P-1	P-2	P-3 (BACKUP)
SERVICE	---	CHILLED WATER	CHILLED WATER	CHILLED WATER
WATER FLOW	GPM	543	543	543
TOTAL HEAD	FT WG	127	127	127
MOTOR	HP/BHP	40/22.47	40/22.47	40/22.47
SPEED	RPM	1750	1750	1750
MOTOR TYPE	---	TEFC	TEFC	TEFC
BASE TYPE	---	FAB	FAB	FAB
IMPELLER DIAMETER	IN	11.625	11.625	11.625
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.	1086
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#.

AIR DEVICE SCHEDULE							
MARK	S-1	S-2	S-3	S-4	R-1	E-1	T-1
SERVICE	SUPPLY AIR	SUPPLY AIR	SUPPLY AIR	SUPPLY AIR	RETURN AIR	EXHAUST AIR	TRANSFER 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	PERFORATED CEILING DIFFUSER WITH NO HORIZONTAL DEFLECTORS	EGG CRATE GRILLE WITH 1/2"x1/2"x1/2" ALUMINUM CORE	FIXED 35 DEGREE SINGLE DEFLECTION GRILLE WITH 3/4" BLADE SPACING	EGG CRATE GRILLE WITH 1/2"x1/2"x1/2" ALUMINUM CORE
MATERIAL	ALUMINUM	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	STANDARD FINISH #26 WHITE
DAMPER	RADIAL	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	NONE
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	OMNI-AA	250-AA	300FS	PAS-AA	50F	350FL	50F

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

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
100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M4.3

VARIABLE AIR VOULME BOX WITH ELECTRIC HEAT SCHEDULE

MARK	---	VAV-1-1	VAV-1-2	VAV-1-3	VAV-1-4	VAV-1-5	VAV-1-6	VAV-1-7	VAV-1-8	VAV-1-9	VAV-1-10	VAV-1-11	VAV-1-12	VAV-1-13	VAV-1-14	VAV-1-15	VAV-1-16	VAV-1-17	VAV-1-18	VAV-1-19	VAV-1-20	VAV-1-21
MAXIMUM AIRFLOW	CFM	1435	890	1650	1160	745	715	440	1430	345	490	530	415	490	1570	1500	1295	730	900	750	525	110
MINIMUM AIRFLOW	CFM	720	445	825	580	375	360	220	715	175	245	265	210	245	785	750	650	365	450	375	265	55
ADP AT MAX COOLING	IN WG	0.04	0.11	0.05	0.04	0.08	0.07	0.18	0.04	0.14	0.22	0.04	0.16	0.22	0.05	0.04	0.05	0.07	0.11	0.08	0.04	0.01
MAX DIS NC	NC	15	16	15	15	15	15	15	15	15	15	15	15	15	15	15	16	15	16	15	15	15
MAX RAD NC	NC	24	26	26	29	21	20	16	24	16	19	16	16	19	26	25	30	21	26	22	16	15
INLET DUCT CONNECTION SIZE	IN	12	8	12	10	8	8	6	12	6	6	8	6	6	12	12	10	8	8	8	8	4
ELECTRIC STRIP HEAT	KW/STEPS	10/2	6/2	11/3	8/2	5/1	5/1	3/1	10/2	3/1	4/1	4/1	3/1	4/1	11/3	10/2	9/2	5/1	6/2	5/1	4/1	1/1
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
LVG. AIR TEMP (DB)	DEG F	95.10	96.97	95.26	85.52	96.41	95.88	80.87	95.10	80.87	88.57	89.49	80.87	89.49	95.26	95.10	94.90	96.41	96.97	96.41	94.97	79.21
ELECTRICAL	V/PH/HZ	480/1/60	277/1/60	480/1/60	480/1/60	277/1/60	277/1/60	277/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	480/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

NOTES:
1. ALL VAV BOXES TO BE SELECTED AT A MAXIMUM INLET STATIC PRESSURE OF 0.30 IN WG.
2. ALL VAV BOXES TO BE PRESSURE INDEPENDENT.
3. NOISE CRITERIA (NC) ESTIMATE CALCULATED USING THE FOLLOWING TRANSFER FUNCTIONS:
   DISCHARGE: ARI 885-98;
   RADIATED: ARI 885-98 MINERAL FIBER.
4. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION FOR ALL THREE PHASE VAV BOXES.
5. CONTROLS CONTRACTOR TO PROVIDE CONTROLLERS TO VAV BOX MANUFACTURER FOR FACTORY MOUNTING.
6. VAV BOX MANUFACTURER TO PROVIDE FACTORY 24 VOLT STEPDOWN TRANSFORMER INSIDE VAV BOX FOR CONTROLS POWER CONNECTIONS.
7. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.

VARIABLE AIR VOULME BOX WITH ELECTRIC HEAT SCHEDULE

MARK	---	VAV-2-1	VAV-2-2	VAV-2-3	VAV-2-4	VAV-2-5	VAV-2-6	VAV-2-7	VAV-2-8	VAV-2-9	VAV-2-10	VAV-2-11	VAV-2-12	VAV-2-13	VAV-2-14	VAV-2-15	VAV-2-16	VAV-2-17	VAV-2-18	VAV-2-19	VAV-2-20	VAV-2-21
MAXIMUM AIRFLOW	CFM	505	285	860	475	1780	620	165	500	500	500	500	100	400	320	1400	1400	1400	1400	615	400	380
MINIMUM AIRFLOW	CFM	255	145	430	240	890	310	85	250	250	250	250	50	200	160	700	700	700	700	310	200	190
ADP AT MAX COOLING	IN WG	0.04	0.02	0.10	0.03	0.06	0.05	0.01	0.23	0.23	0.23	0.23	0.01	0.14	0.09	0.05	0.05	0.05	0.05	0.05	0.14	0.13
MAX DIS NC	NC	15	15	15	15	15	15	15	15	15	15	15	15	15	15	17	17	17	17	15	15	15
MAX RAD NC	NC	16	15	25	15	29	19	15	19	19	19	19	15	16	15	31	31	31	31	19	16	16
INLET DUCT CONNECTION SIZE	IN	8	5	8	8	12	8	5	6	6	6	6	4	6	6	10	10	10	10	8	6	6
ELECTRIC STRIP HEAT	KW/STEPS	4/1	2/1	6/2	5/1	12/3	4/1	2/1	4/1	4/1	4/1	4/1	1/1	3/1	3/1	10/2	10/2	10/2	10/2	4/1	3/1	3/1
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
LVG. AIR TEMP (DB)	DEG F	94.97	82.98	96.97	96.41	95.18	93.74	89.03	96.97	96.97	96.97	96.97	79.21	94.34	94.34	96.14	96.14	96.14	96.14	94.34	94.34	94.34
ELECTRICAL	V/PH/HZ	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	480/1/60	480/1/60	480/1/60	277/1/60	277/1/60	277/1/60
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

MARK	---	VAV-2-22	VAV-2-23	VAV-2-24	VAV-2-25	VAV-2-26	VAV-2-27	VAV-2-28	VAV-2-29	VAV-2-30	VAV-2-31	VAV-2-32	VAV-2-33	VAV-2-34	VAV-2-35	VAV-2-36	VAV-2-37	VAV-2-38	VAV-2-39	VAV-2-40		
MAXIMUM AIRFLOW	CFM	420	500	220	680	1470	760	750	330	1040	925	925	335	1050	1460	430	580	1015	880	630		
MINIMUM AIRFLOW	CFM	210	250	110	340	735	380	375	165	520	465	465	170	525	730	215	290	510	440	315		
ADP AT MAX COOLING	IN WG	0.16	0.23	0.01	0.07	0.04	0.08	0.08	0.10	0.03	0.03	0.03	0.10	0.03	0.04	0.17	0.05	0.03	0.11	0.06		
MAX DIS NC	NC	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	15		
MAX RAD NC	NC	16	19	15	20	24	22	22	15	26	24	24	15	26	24	16	17	25	25	19		
INLET DUCT CONNECTION SIZE	IN	6	6	5	8	12	8	8	6	10	10	10	6	10	12	6	8	10	8	8		
ELECTRIC STRIP HEAT	KW/STEPS	3/1	4/1	2/1	5/1	10/2	5/1	5/1	3/1	6/2	6/2	6/2	3/1	7/2	10/2	3/1	4/1	7/2	6/2	5/1		
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
LVG. AIR TEMP (DB)	DEG F	94.34	94.34	89.03	96.41	95.10	96.41	95.88	94.34	91.32	95.61	95.61	94.34	95.06	95.10	94.34	94.97	94.34	96.97	96.41		
ELECTRICAL	V/PH/HZ	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	480/1/60	277/1/60	277/1/60	480/1/60	277/1/60	277/1/60		
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE		
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF		
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7		

NOTES:
1. ALL VAV BOXES TO BE SELECTED AT A MAXIMUM INLET STATIC PRESSURE OF 0.30 IN WG.
2. ALL VAV BOXES TO BE PRESSURE INDEPENDENT.
3. NOISE CRITERIA (NC) ESTIMATE CALCULATED USING THE FOLLOWING TRANSFER FUNCTIONS:
   DISCHARGE: ARI 885-98;
   RADIATED: ARI 885-98 MINERAL FIBER.
4. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION FOR ALL THREE PHASE VAV BOXES.
5. CONTROLS CONTRACTOR TO PROVIDE CONTROLLERS TO VAV BOX MANUFACTURER FOR FACTORY MOUNTING.
6. VAV BOX MANUFACTURER TO PROVIDE FACTORY 24 VOLT STEPDOWN TRANSFORMER INSIDE VAV BOX FOR CONTROLS POWER CONNECTIONS.
7. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.

VARIABLE AIR VOULME BOX WITH ELECTRIC HEAT SCHEDULE

MARK	---	VAV-3-1	VAV-3-2	VAV-3-3	VAV-3-4	VAV-3-5	VAV-3-6	VAV-3-7	VAV-3-8	VAV-3-9	VAV-3-10	VAV-3-11	VAV-3-12	VAV-3-13	VAV-3-14	VAV-3-15	VAV-3-16	VAV-3-17	VAV-3-18	VAV-3-19	VAV-3-20	VAV-3-21
MAXIMUM AIRFLOW	CFM	500	940	580	650	905	1020	500	425	335	825	545	335	400	310	165	310	365	595	580	450	100
MINIMUM AIRFLOW	CFM	250	470	290	325	450	510	250	215	170	415	275	170	200	155	85	155	185	300	290	225	50
ADP AT MAX COOLING	IN WG	0.23	0.03	0.05	0.06	0.02	0.03	0.23	0.16	0.10	0.10	0.04	0.10	0.14	0.02	0.01	0.02	0.12	0.05	0.05	0.18	0.01
MAX DIS NC	NC	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MAX RAD NC	NC	19	24	17	19	24	26	19	16	15	24	16	15	16	15	15	15	15	17	17	17	15
INLET DUCT CONNECTION SIZE	IN	6	10	8	8	10	10	6	6	6	8	8	6	6	5	5	5	6	8	8	6	4
ELECTRIC STRIP HEAT	KW/STEPS	4/1	7/2	4/1	5/1	6/2	7/2	4/1	3/1	3/1	6/2	4/1	3/1	3/1	2/1	2/1	2/1	3/1	4/1	4/1	3/1	1/1
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
LVG. AIR TEMP (DB)	DEG F	96.97	95.06	94.97	96.41	96.97	95.06	90.97	94.34	94.34	96.97	94.34	94.34	94.34	89.03	89.03	89.03	94.34	94.97	94.34	92.77	79.21
ELECTRICAL	V/PH/HZ	277/1/60	480/1/60	277/1/60	277/1/60	277/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

MARK	---	VAV-3-22	VAV-3-23	VAV-3-24	VAV-3-25	VAV-3-26	VAV-3-27	VAV-3-28	VAV-3-29	VAV-3-30	VAV-3-31	VAV-3-32	VAV-3-33	VAV-3-34	VAV-3-35	VAV-3-36	VAV-3-37	VAV-3-38	VAV-3-39	VAV-3-40		
MAXIMUM AIRFLOW	CFM	760	850	1030	1435	320	475	200	505	525	255	415	810	315	400	560	525	450	350	770		
MINIMUM AIRFLOW	CFM	380	425	515	720	160	240	100	255	265	130	210	405	160	200	280	265	225	175	385		
ADP AT MAX COOLING	IN WG	0.08	0.10	0.03	0.04	0.09	0.21	0.01	0.04	0.04	0.01	0.16	0.09	0.09	0.14	0.04	0.04	0.18	0.11	0.08		
MAX DIS NC	NC	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX RAD NC	NC	22	24	26	24	15	17	15	16	16	15	17	23	15	16	21	16	17	15	22		
INLET DUCT CONNECTION SIZE	IN	8	8	10	12	6	6	5	8	8	5	6	8	6	6	8	8	6	6	8		
ELECTRIC STRIP HEAT	KW/STEPS	5/1	6/2	7/2	10/2	3/1	4/1	2/1	4/1	4/1	2/1	3.5/1	6/2	3/1	3/1	4/1	4/1	3/1	3/1	5/1		
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
LVG. AIR TEMP (DB)	DEG F	96.41	96.97	95.06	95.10	94.34	96.97	89.03	94.97	94.97	89.03	93.65	96.97	94.34	94.34	94.97	94.97	94.34	94.34	95.88		
ELECTRICAL	V/PH/HZ	277/1/60	277/1/60	480/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60		
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE		
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF		
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7		

NOTES:
1. ALL VAV BOXES TO BE SELECTED AT A MAXIMUM INLET STATIC PRESSURE OF 0.30 IN WG.
2. ALL VAV BOXES TO BE PRESSURE INDEPENDENT.
3. NOISE CRITERIA (NC) ESTIMATE CALCULATED USING THE FOLLOWING TRANSFER FUNCTIONS:
   DISCHARGE: ARI 885-98;
   RADIATED: ARI 885-98 MINERAL FIBER.
4. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION FOR ALL THREE PHASE VAV BOXES.
5. CONTROLS CONTRACTOR TO PROVIDE CONTROLLERS TO VAV BOX MANUFACTURER FOR FACTORY MOUNTING.
6. VAV BOX MANUFACTURER TO PROVIDE FACTORY 24 VOLT STEPDOWN TRANSFORMER INSIDE VAV BOX FOR CONTROLS POWER CONNECTIONS.
7. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.

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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SIGNATURE DATE
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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

HVAC SCHEDULES

SHEET NUMBER:

M4.4

VARIABLE AIR VOULME BOX WITH ELECTRIC HEAT SCHEDULE																						
MARK	---	VAV-4-1	VAV-4-2	VAV-4-3	VAV-4-4	VAV-4-5	VAV-4-6	VAV-4-7	VAV-4-8	VAV-4-9	VAV-4-10	VAV-4-11	VAV-4-12	VAV-4-13	VAV-4-14	VAV-4-15	VAV-4-16	VAV-4-17	VAV-4-18	VAV-4-19	VAV-4-20	VAV-4-21
MAXIMUM AIRFLOW	CFM	735	385	225	315	390	1325	1375	1000	865	660	630	735	800	215	230	675	535	460	910	290	360
MINIMUM AIRFLOW	CFM	370	195	115	160	195	665	690	500	435	330	315	370	400	110	115	340	270	230	455	145	180
ADP AT MAX COOLING	IN WG	0.08	0.13	0.01	0.09	0.14	0.05	0.05	0.03	0.10	0.06	0.06	0.08	0.09	0.01	0.01	0.06	0.04	0.19	0.02	0.02	0.12
MAX DIS NC	NC	15	15	15	15	15	16	17	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MAX RAD NC	NC	21	16	15	15	16	30	31	25	25	19	19	21	23	15	15	20	16	17	24	15	15
INLET DUCT CONNECTION SIZE	IN	8	6	5	6	6	10	10	10	8	8	8	8	8	5	5	8	8	6	10	5	6
ELECTRIC STRIP HEAT	KW/STEPS	5/1	3/1	2/1	3/1	3/1	9/2	9/2	7/2	6/2	5/1	5/1	5/1	6/2	2/1	2/1	5/1	4/1	3/1	6/2	2/1	3/1
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
LVG. AIR TEMP (DB)	DEG F	95.88	94.34	89.03	94.34	79.21	94.62	68.49	95.06	96.05	96.41	96.41	95.88	96.97	89.03	89.03	96.41	94.97	88.72	96.50	89.03	94.34
ELECTRICAL	V/PH/HZ	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60	480/1/60	480/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

MARK	---	VAV-4-22	VAV-4-23	VAV-4-24	VAV-4-25	VAV-4-26	VAV-4-27	VAV-4-28	VAV-4-29	VAV-4-30	VAV-4-31	VAV-4-32	VAV-4-33
MAXIMUM AIRFLOW	CFM	365	400	730	500	740	460	615	500	640	855	575	1000
MINIMUM AIRFLOW	CFM	185	200	365	250	370	230	310	250	320	430	290	500
ADP AT MAX COOLING	IN WG	0.12	0.14	0.07	0.23	0.08	0.19	0.05	0.23	0.06	0.10	0.05	0.03
MAX DIS NC	NC	15	15	15	15	15	15	15	15	15	15	15	15
MAX RAD NC	NC	15	16	21	19	21	17	19	19	19	25	17	25
INLET DUCT CONNECTION SIZE	IN	6	6	8	6	8	6	8	6	8	8	8	10
ELECTRIC STRIP HEAT	KW/STEPS	3/1	3/1	5/1	4/1	5/1	3/1	4/1	4/1	5/1	6/2	4/1	7/2
ENT. AIR TEMP (DB)	DEG F	55	55	55	55	55	55	55	55	55	55	55	55
LVG. AIR TEMP (DB)	DEG F	94.34	94.34	96.41	95.61	96.41	88.72	94.97	95.61	95.88	96.97	94.97	95.06
ELECTRICAL	V/PH/HZ	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	480/1/60
MANUFACTURER	---	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	---	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF	VCEF
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

NOTES:
1. ALL VAV BOXES TO BE SELECTED AT A MAXIMUM INLET STATIC PRESSURE OF 0.30 IN WG.
2. ALL VAV BOXES TO BE PRESSURE INDEPENDENT.
3. NOISE CRITERIA (NC) ESTIMATE CALCULATED USING THE FOLLOWING TRANSFER FUNCTIONS:
   DISCHARGE: ARI 885-98;
   RADIATED: ARI 885-98 MINERAL FIBER.
4. PROVIDE ELECTRICAL PHASE LOSS PROTECTION OPTION FOR ALL THREE PHASE VAV BOXES.
5. CONTROLS CONTRACTOR TO PROVIDE CONTROLLERS TO VAV BOX MANUFACTURER FOR FACTORY MOUNTING.
6. VAV BOX MANUFACTURER TO PROVIDE FACTORY 24 VOLT STEPDOWN TRANSFORMER INSIDE VAV BOX FOR CONTROLS POWER CONNECTIONS.
7. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.

VARIABLE AIR VOULME BOX WITH ELECTRIC HEAT SCHEDULE						
MARK	---	VAV-5-1	VAV-5-2			
MAXIMUM AIRFLOW	CFM	405	1000			
MINIMUM AIRFLOW	CFM	200	500			
ADP AT MAX COOLING	IN WG	0.15	0.03			
MAX DIS NC	NC	15	15			
MAX RAD NC	NC	16	25			
INLET DUCT CONNECTION SIZE	IN	6	10			
ELECTRIC STRIP HEAT	KW/STEPS	3/1	7/2			
ENT. AIR TEMP (DB)	DEG F	55	55			
LVG. AIR TEMP (DB)	DEG F	94.34	95.06			
ELECTRICAL	V/PH/HZ	277/1/60	480/1/60			
MANUFACTURER	---	TRANE	TRANE			
MODEL	---	VCEF	VCEF			
NOTES	---	1,2,3,4,5,6,7	1,2,3,4,5,6,7			

NOTES:
1. ALL VAV BOXES TO BE SELECTED AT A MAXIMUM INLET STATIC PRESSURE OF 0.30 IN WG.
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7. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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DESIGN DEVELOPMENT	-	-	06-06-07
DD OWNER REVIEW	-	-	08-08-07
75% CONSTRUCTION DOCUMENTS	-	-	11-16-07
100% PROGRESS SET	-	-	01-18-08
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

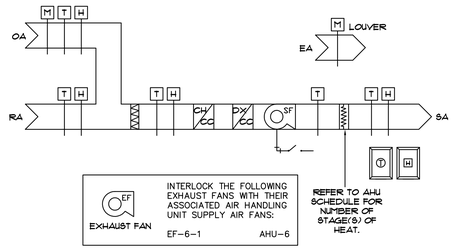
HVAC SCHEDULES

SHEET NUMBER:

M4.5

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 70 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.

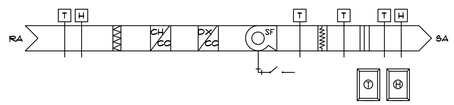
SEQUENCE OF OPERATIONS HURRICANE MODE:
IN THE HURRICANE MODE, EXHAUST FANS SHALL DE-ENERGIZE AND ALL MOTORIZED DAMPERS IN EXTERIOR LOUVERS SHALL AUTOMATICALLY BE CLOSED. ALL OTHER HVAC EQUIPMENT SHALL FUNCTION IN THE OCCUPIED MODE.

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.)

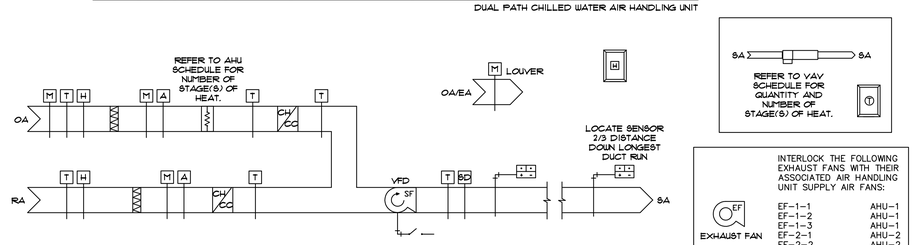
HUMIDIFING MODE
IN THE HUMIDIFING MODE, THE AUTOMATIC 2-WAY CHILLED WATER VALVE, ELECTRIC STRIP HEATER, AND STEAM HUMIDIFIER SHALL CYCLE AND MODULATE TO MAINTAIN THE SPACE HUMIDITY SETPOINT. THE SPACE HUMIDITY SETPOINT SHALL BE DETERMINED BY A FACTORY MICROPROCESSOR AND READABLE ONLY THROUGH THE BAS.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

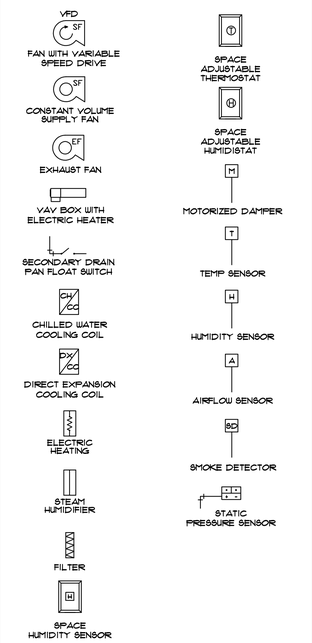
EXHAUST AIR FANS:
OPERATION OF EXHAUST FANS SHALL BE INTERLOCKED WITH ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN, REFER TO SCHEDULE ABOVE. EXHAUST AIR FAN SHALL BE ENERGIZED WHEN ASSOCIATED AIR HANDLING UNIT SUPPLY AIR FAN IS ENERGIZED. EXHAUST AIR FAN SHALL BE DE-ENERGIZED WHEN ASSOCIATED AIR HANDLING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

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SCHEMATIC DESIGN	.	.	03-26-07
DESIGN DEVELOPMENT	.	.	06-06-07
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100% PROGRESS SET	.	.	01-18-08
BID DOCUMENTS	.	.	03-03-08

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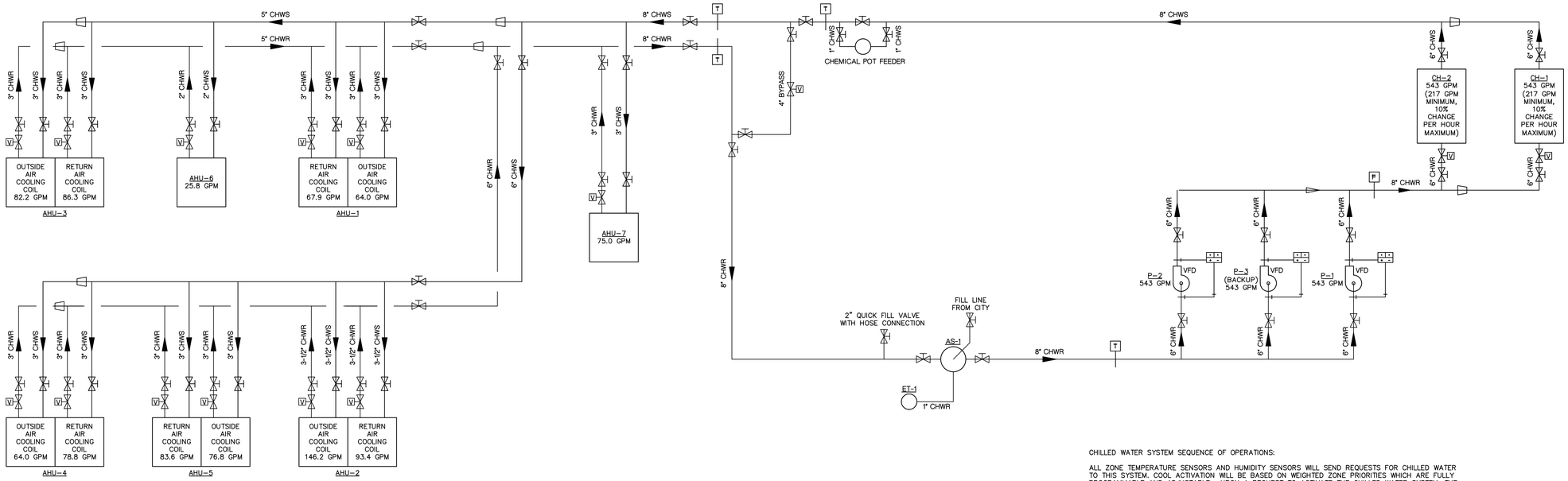
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

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:

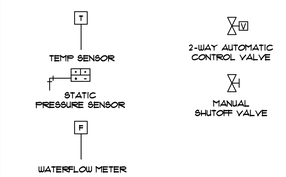
ALL ZONE TEMPERATURE SENSORS AND HUMIDITY SENSORS WILL SEND REQUESTS FOR CHILLED WATER TO THIS SYSTEM. COOL ACTIVATION WILL BE BASED ON WEIGHTED ZONE PRIORITIES WHICH ARE FULLY PROGRAMMABLE AND ADJUSTABLE. UPON A REQUEST TO ACTIVATE THE CHILLED WATER SYSTEM, THE LEAD ISOLATION VALVE WILL BE INDEXED TO 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



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

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NO.	DESCRIPTION	DRAWN	CHECKED	DATE

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75% CONSTRUCTION DOCUMENTS	·	·	11-16-07
100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

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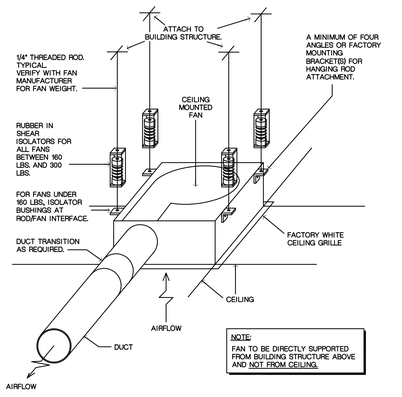
SHEET TITLE:

HVAC CONTROL DIAGRAMS

SHEET NUMBER:

M5.2

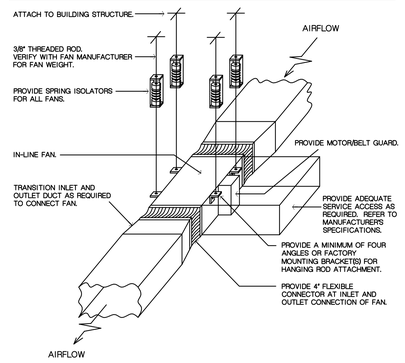
CEILING MOUNTED FAN SUPPORT



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IN-LINE FAN SUPPORT

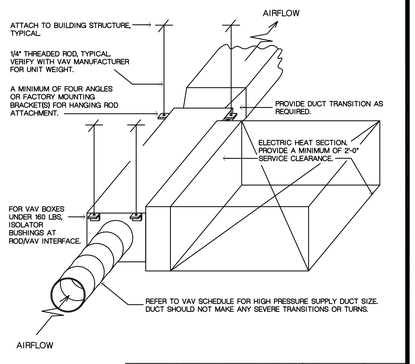
NOTE:
FAN TO BE DIRECTLY SUPPORTED BY BUILDING STRUCTURE AND NOT CONNECTING DUCTWORK OR CEILING.



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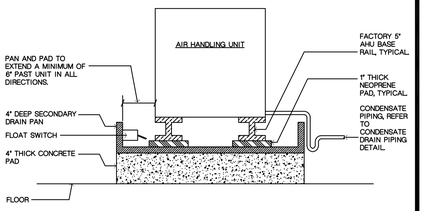
SINGLE DUCT VAV BOX W/ ELEC HEAT SUPPORT

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



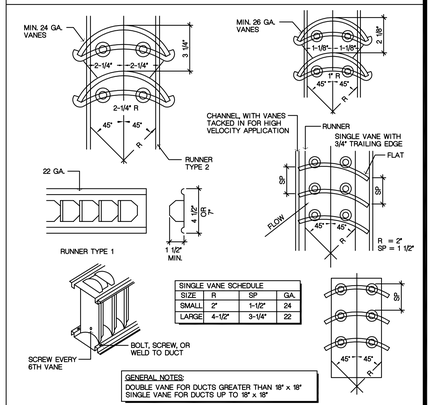
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AIR HANDLING UNIT SUPPORT



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TURNING VANES AND VANE RUNNERS



GENERAL NOTES:
DOUBLE VANE FOR DUCTS GREATER THAN 18" x 18"
SINGLE VANE FOR DUCTS UP TO 18" x 18"

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RECTANGULAR 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.

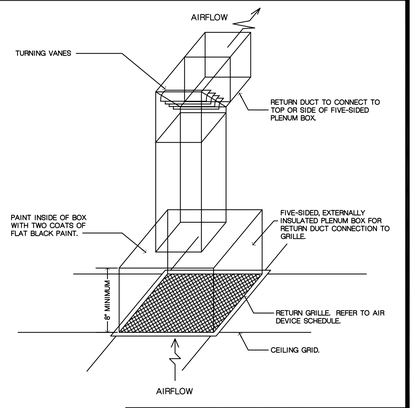
SINGLE HANGER MAXIMUM ALLOW. LOAD

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.

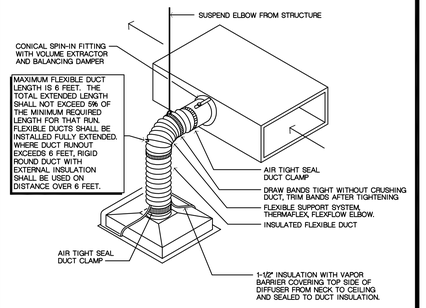
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FIVE SIDED RETURN GRILLE PLENUM BOX



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FLEXIBLE DUCTWORK



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FIRE DAMPER MOUNTING AT WALL AND FLOOR PENETRATIONS (NOTES)

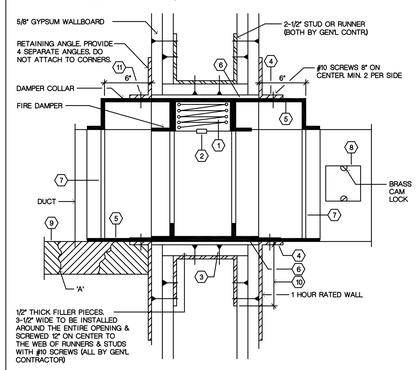
CODED NOTES:

1. PROVIDE PHILLIPS #51 (963368) 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.

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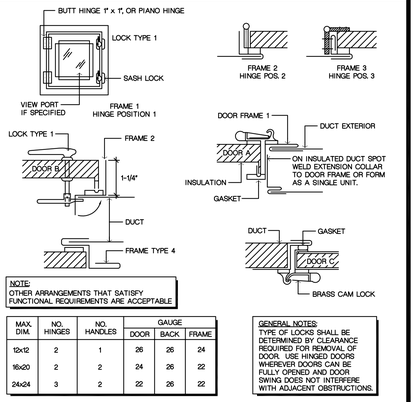
FIRE DAMPER MOUNTING AT WALL AND FLOOR PENETRATIONS

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



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DUCT ACCESS DOORS



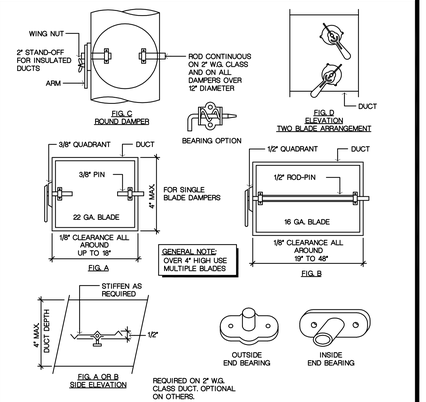
NOTE:
OTHER ARRANGEMENTS THAT SATISFY FUNCTIONAL REQUIREMENTS ARE ACCEPTABLE

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.

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VOLUME DAMPERS FOR DUCTWORK



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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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ER 0002662
PROJECT NUMBER: 07014

SIGNATURE DATE
JOHN W. WELLS, III, PE
PE 0049347
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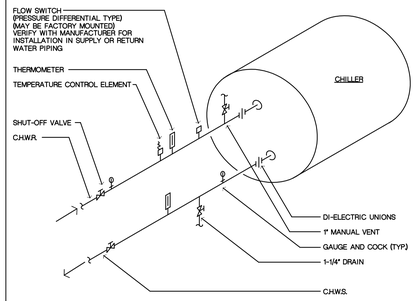
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BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC DETAILS

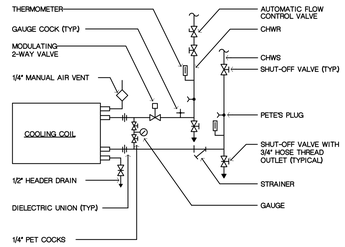
SHEET NUMBER:
M6.1

CHILLER PIPING



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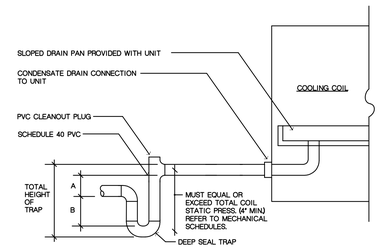
COOLING COIL PIPING



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

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CONDENSATE DRAIN PIPING



POSITIVE STATIC PRESSURE (BLOW-THRU)

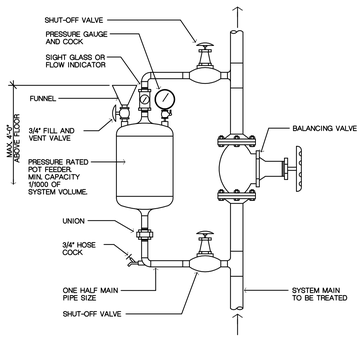
A= AT LEAST ONE(1) INCH PLUS CASING STATIC PRESSURE
B= AT LEAST ONE(1) INCH
TOTAL HEIGHT OF TRAP= A+B+(1.5 x PIPE DIA.)

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.)

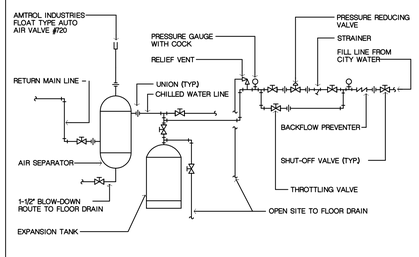
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 01-08-08 | MD-0108

CHEMICAL POT FEEDER



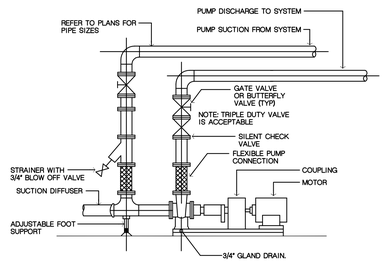
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AIR SEPARATOR AND EXPANSION TANK



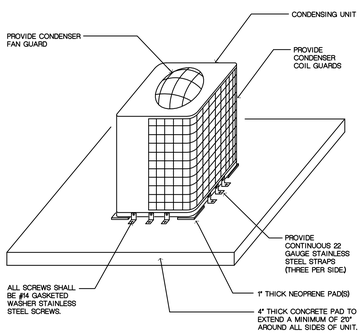
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 01-08-08 | MD-0108

PUMP PIPING



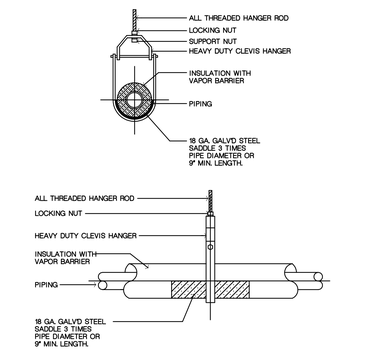
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 01-08-08 | MD-0108

CONDENSING UNIT ON GRADE



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 01-08-08 | MD-0108

PIPE HANGERS



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 01-08-08 | MD-0108

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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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PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347

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CONSULTING ENGINEERING
ASSOCIATES, INC.

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M6.2

PLUMBING FIXTURE SCHEDULE

WC-1 WATER CLOSET: WHITE, VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, FLOOR MOUNTED, 1.6 GALLON FLUSH, 1-1/2" TOP SPUD, BOLT CAPS.

BASIS OF DESIGN: KOHLER "WELLCOMME" K-4350

FLUSH VALVE: CHROME PLATED, EXPOSED FLUSH VALVE, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 1" I.P.S. SCREWDRIVER ANGLE STOP/BACK CHECK WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER, FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" SPUD, WALL FLANGES, 1.6 GALLON FLUSH, SWEAT SOLDER ADAPTER, VANDAL RESISTANT STOP CAP.

BASIS OF DESIGN: SLOAN ROYAL 111

SEAT: WHITE, EXTRA-HEAVY, SOLID PLASTIC ELONGATED SEAT, OPEN FRONT LESS COVER, SELF-SUSTAINING CHECK HINGE,

BASIS OF DEISGN: KOHLER K-4670-SC

WC-2 WATER CLOSET/ADA: WHITE, VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, FLOOR MOUNTED, 1.6 GALLON FLUSH, 1-1/2" TOP SPUD, BOLT CAPS.

BASIS OF DESIGN: KOHLER "HIGHCLIF" K-4368

FLUSH VALVE: CHROME PLATED, EXPOSED FLUSH VALVE, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 1" I.P.S. SCREWDRIVER ANGLE STOP/BACK CHECK WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER, FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" SPUD, WALL FLANGES, 1.6 GALLON FLUSH, SWEAT SOLDER ADAPTER, VANDAL RESISTANT STOP CAP.

BASIS OF DESIGN: SLOAN ROYAL 111

SEAT: WHITE, EXTRA-HEAVY, SOLID PLASTIC ELONGATED SEAT, OPEN FRONT LESS COVER, SELF-SUSTAINING CHECK HINGE,

BASIS OF DEISGN: KOHLER K-4670-SC

U-1 URINAL: WHITE, VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION, INTEGRAL TRAP, WALL HANGERS, 2" OUTLET, 3/4" TOP SPUD, 1.0 GALLON PER FLUSH.

BASIS OF DESIGN: KOHLER "FRESHMAN" K-4989-T

FLUSH VALVE: CHROME PLATED, EXPOSED FLUSH VALVE, METAL OSCILLATION NON HOLD-OPEN HANDLE 3/4" I.P.S. SCREWDRIVER OPERATED ANGLE STOP VALVE/BACK CHECK WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER, FLUSH CONNECTION, SPUD COUPLING FOR 3/4" TOP SPUD, WALL FLANGES, 1.0 GALLON FLUSH, SWEAT SOLDER ADAPTER, VANDAL-RESISTANT STOP CAP.

BASIS OF DESIGN: SLOAN 186-1.0

CARRIER: DURA-COATED CAST IRON RIGID PLATE SYSTEM, RECTANGULAR STEEL UPRIGHTS WITH ADJUSTABLE SUPPORT PLATES, HEAVY DUTY CAST IRON FEET AND MOUNTING FASTENERS COMPLETE WITH BEARING JACKS, VANDAL RESISTANT.

BASIS OF DESIGN: JAY R SMITH 0637

U-2 URINAL/ADA: WHITE, VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION, INTEGRAL TRAP, WALL HANGERS, 2" OUTLET, 3/4" TOP SPUD, 1.0 GALLON PER FLUSH.

BASIS OF DESIGN: KOHLER "FRESHMAN" K-4989-T

FLUSH VALVE: CHROME PLATED, EXPOSED FLUSH VALVE, NON-HOLD OPEN, 3/4" I.P.S. SCREWDRIVER OPERATED ANGLE STOP VALVE/BACK CHECK WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER, FLUSH CONNECTION, SPUD COUPLING FOR 3/4" TOP SPUD, WALL FLANGES, 1.0 GALLON FLUSH, SWEAT SOLDER ADAPTER, VANDAL-RESISTANT STOP CAP.

BASIS OF DESIGN: SLOAN 186-1.0

CARRIER: DURA-COATED CAST IRON RIGID PLATE SYSTEM, RECTANGULAR STEEL UPRIGHTS WITH ADJUSTABLE SUPPORT PLATES, HEAVY DUTY CAST IRON FEET AND MOUNTING FASTENERS COMPLETE WITH BEARING JACKS, VANDAL RESISTANT.

BASIS OF DESIGN: JAY R SMITH 0637

L-1 LAVATORY: WHITE, COUNTER MOUTNED, VITREOUS CHINA, 20-1/4" X 17-1/2", 4" CENTERS, WITH OVERFLOW, SELF-RIMMING.

BASIS OF DESIGN: KOHLER "PENNINGTON" K-2196

FAUCET: POLISHED CHROME, METAL CONSTRUCTION, HIGH-TEMPERATURE LIMIT STOP, 2.0 GPM VANDAL-RESISTANT AERATOR, METAL THROATPLATE, 4-1/2" SINGLE LEVER HANDLE, 4" CENTERS, 4-1/4" RIGID SPOUT, PLUMBED FOR COLD AND HOT WATER SUPPLY.

BASIS OF DESIGN: KOHLER "CORALAIS" K-15592-P

DRAIN: POLISHED CHROME, BRASS CONSTRUCTION, GRID DRIAN, 1-1/4" TAILPIECE, LOCKNUT AND WASHER.

BASIS OF DESIGN: KOHLER K-7715

TRAP: POLISHED CHROME, CAST BRASS CONSTRUCTION, ADJUSTABLE P-TRAP, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/4" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: KOHLER K-8999

SUPPLY: ANGLE STOP, LOOSE KEY HANDLE, SLOW COMPRESSION, 1/2" I.P.S FEMALE INLET, 3/8" O.D. FLEXIBLE RISER, CHROME PLATED COPPER INLET TUBE, CAST ESCUTCHEON WITH SET SCREW, CHROME PLATED, TWO REQUIRED.

BASIS OF DESIGN: MCGUIRE 2165CCLK

L-2 LAVATORY/ADA: WHITE, WALL HUNG, VITREOUS CHINA, 20-3/4" X 18-1/4", 4" CENTERS, WITH OVERFLOW, DRILLED FOR CONCEALED ARM CARRIER.

BASIS OF DESIGN: KOHLER "GREENWICH" K-2032

FAUCET: POLISHED CHROME, METAL CONSTRUCTION, HIGH-TEMPERATURE LIMIT STOP, 2.0 GPM VANDAL-RESISTANT AERATOR, METAL THROATPLATE, 5-3/4" SINGLE LEVER HANDLE, 4" CENTERS, 4-1/4" RIGID SPOUT, PLUMBED FOR COLD AND HOT WATER SUPPLY.

BASIS OF DESIGN: KOHLER "CORALAIS" K-15592-5P

DRAIN: POLISHED CHROME, BRASS CONSTRUCTION, GRID DRIAN, 1-1/4" TAILPIECE, LOCKNUT AND WASHER.

BASIS OF DESIGN: KOHLER K-7715

TRAP: POLISHED CHROME, CAST BRASS CONSTRUCTION, ADJUSTABLE P-TRAP, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/4" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: KOHLER K-8999

SUPPLY: ANGLE STOP, LOOSE KEY HANDLE, SLOW COMPRESSION, 1/2" I.P.S FEMALE INLET, 3/8" O.D. FLEXIBLE RISER, CHROME PLATED COPPER INLET TUBE, CAST ESCUTCHEON WITH SET SCREW, CHROME PLATED, TWO REQUIRED.

BASIS OF DESIGN: MCGUIRE 2165CCLK

CARRIER: ADJUSTABLE SUPPORT SYSTEM, STEEL UPRIGHTS, 4"X4" BASE PLATE, BASE PLATE WELDED TO UPRIGHT, LEVELING SCREWS, ALIGHNMENT BAR, ESCUTCHEON, LOCKING DEVICE.

BASIS OF DESIGN: JAY R SMITH SERIES 700 AS REQUIRED

INSULATION: WHITE, FLEXIBLE VINYL, MOLDED, PROTECT DRAIN, TRAP AND SUPPLIES.

BASIS OF DESIGN: TRUEBRO "LAV-GAURD2"

THERMOSTATIC MIXING VALVE: NICKEL PLATED, BRASS/BRONZE CONSTRUCTION, POINT OF USE, ANTI-SCALD, PROPORTIONAL VALVE, SET AT 105 DEG F.

BASIS OF DESIGN: SPARCO "AQUAMIX" AM100C

L-3 LAVATORY: WHITE, WALL HUNG, VITREOUS CHINA, 20-3/4" X 18-1/4", 4" CENTERS, WITH OVERFLOW, DRILLED FOR CONCEALED ARM CARRIER.

BASIS OF DESIGN: KOHLER "GREENWICH" K-2032

FAUCET: POLISHED CHROME, METAL CONSTRUCTION, HIGH-TEMPERATURE LIMIT STOP, 2.0 GPM VANDAL-RESISTANT AERATOR, METAL THROATPLATE, 4-1/2" SINGLE LEVER HANDLE, 4" CENTERS, 4-1/4" RIGID SPOUT, PLUMBED FOR COLD AND HOT WATER SUPPLY.

BASIS OF DESIGN: KOHLER "CORALAIS" K-15592-P

DRAIN: POLISHED CHROME, BRASS CONSTRUCTION, GRID DRIAN, 1-1/4" TAILPIECE, LOCKNUT AND WASHER.

BASIS OF DESIGN: KOHLER K-7715

TRAP: POLISHED CHROME, CAST BRASS CONSTRUCTION, ADJUSTABLE P-TRAP, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/4" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: KOHLER K-8999

SUPPLY: ANGLE STOP, LOOSE KEY HANDLE, SLOW COMPRESSION, 1/2" I.P.S FEMALE INLET, 3/8" O.D. FLEXIBLE RISER, CHROME PLATED COPPER INLET TUBE, CAST ESCUTCHEON WITH SET SCREW, CHROME PLATED, TWO REQUIRED.

BASIS OF DESIGN: MCGUIRE 2165CCLK

CARRIER: ADJUSTABLE SUPPORT SYSTEM, STEEL UPRIGHTS, 4"X4" BASE PLATE, BASE PLATE WELDED TO UPRIGHT, LEVELING SCREWS, ALIGHNMENT BAR, ESCUTCHEON, LOCKING DEVICE.

BASIS OF DESIGN: JAY R SMITH SERIES 700 AS REQUIRED

S-1 SINK/ADA: STAINLESS STEEL, TYPE 304, 18 GAUGE, COUNTER MOUNTED, OVERALL 19"x18"x6" DEEP, 3 HOLE, 4" CENTERS, SELF-RIMMING, FULLY UNDERCOATED, 3-1/2" OFF-CENTERED REAR DRAIN.

BASIS OF DESIGN: ELKAY "LUSTERTONE" LRAD1918

FAUCET: POLISHED CHROME, SINGLE LEVER, TOP MOUNT, THREE HOLE, 8" CENTERS, 8" SWING SPOUT, REMOVABLE CARTRIDGE, STAINLESS STEEL ESCUTCHEON.

BASIS OF DESIGN: ELKAY LK4100

DRAIN ASSEMBLY: STAINLESS STEEL STRAINER BODY, PUSH AND LOCK STEM BASKET, RUBBER STOPPER, 1-1/2"x4" CHROME PLATED BRASS TAILPIECE, FITS 3-1/2" DRAIN OPENINGS.

BASIS OF DESIGN: ELKAY LK99

TRAP: POLISHED CHROME, 17 GAUGE, CAST BRASS CONSTRUCTION, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/2" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: MCGUIRE 8912

SUPPLY: CHROME PLATED COPPER INLET TUBE, ANGLE STOP, LOOSE KEY HANDLE, SLOW COMPRESSION, 1/2" I.P.S FEMALE INLET, 3/8" O.D. FLEXIBLE RISER, CAST ESCUTCHEON WITH SET SCREW.

BASIS OF DESIGN: MCGUIRE 2165CCLK

S-2 THREE COMPARTMENT SINK: STAINLESS STEEL, TYPE 304, 18 GAUGE, COUNTER MOUNTED, OVERALL 43"x18"x7-1/2" DEEP, THREE HOLES OVER CENTER BOWL, 4" CENTERS, SELF-RIMMING, FULLY UNDERCOATED.

BASIS OF DESIGN: JUST GROUP TL-1843-A-GR

FAUCET: POLISHED CHROME, SOLID BRASS CONSTRUCTION, DECK MOUNT, THREE HOLE, 8" CENTERS, 12" SPOUT, SPOUT SWING RESTRICTION PIN, REPLACEABLE QUARTER TURN CERAMIC DISC CARTRIDGE, 2" LEVER HANDLES.

BASIS OF DESIGN: ELKAY LK810AT12L2

DRAIN: CHROME PLATED TAILPIECE, WROUGHT BRASS, 20 GAUGE, 1-1/2"X4" LONG TAILPIECE, STAINLESS STEEL DRAIN, TYPE 304, CUP STRAINER, RUBBER STOPPER, BRASS COUPLING NUT, DIE-CAST ZINC LOCK NUT.

BASIS OF DESIGN: JUST GROUP JB-99

DRAIN ASSEMBLY: CHROME PLATED, BRASS CONSTRUCTION, 17 GAUGE, CHROME PLATED BRASS T-FITTING, 1-1/2" DRAIN OPENING, BRASS COUPLING NUT, COORDINATE CENTER TO CENTER DRAIN DIMENSIONS PRIOR TO ORDERING.

BASIS OF DESIGN: JUST GROUP J-60-S

TRAP: POLISHED CHROME, 17 GAUGE, CAST BRASS CONSTRUCTION, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/2" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: MCGUIRE 8912

SUPPLY: CHROME PLATED COPPER INLET TUBE, ANGLE STOP, LOOSE KEY HANDLE, SLOW COMPRESSION, 1/2" I.P.S FEMALE INLET, 3/8" O.D. FLEXIBLE RISER, CAST ESCUTCHEON WITH SET SCREW.

BASIS OF DESIGN: MCGUIRE 2165CCLK

MB-1 MOP BASIN: PRECAST TERRAZZO, 36"x36"x12" HIGH, STAINLESS STEEL CAST INTEGRAL DRAIN BODY AND STRAINER, 3" CONNECTION, STAINLESS STEEL CAP ON ALL CURBS.

BASIS OF DESIGN: FIAT TSB-500

FAUCET: POLISHED CHROME, COMBINATION FITTING WITH VACUUM BREAKER, 3/4" HOSE END THREADED SPOUT, WALL BRACE, PAIL HOOK, INTEGRAL STOPS, ADJUSTABLE SUPPLY ARMS.

BASIS OF DESIGN: CHICAGO 897

HOSE AND WALL HOOK: 5/8" FLEXIBLE HEAVY DUTY RUBBER HOSE, 30" LONG, CLOTH REINFORCED, 3/4" CHROME COUPLING, STAINLESS STEEL BRACKET, 5" LONG X 3" WIDE, RUBBER GRIP

BASIS OF DESIGN: FIAT 832 AA

MOP HANGER: STAINLESS STEEL CONSTRUCTION, 24" LONG X 3" WIDE, THREE (3) RUBBER GRIPS.

BASIS OF DESIGN: FIAT 889 CC

*WALL GUARDS: STAINLESS STEEL CONSTRUCTION, TWO (2) PANELS FOR CORNER INSTALLATIONS.

BASIS OF DESIGN: MSG 2424

* PROVIDE WALL GUARDS WHEN WALLS ARE NOT TILE.

MB-2 MOP BASIN: PRECAST TERRAZZO, 24"x24"x12" HIGH, 6" DROP FRONT WITH STAINLESS STEEL THRESHOLD, STAINLESS STEEL DRAIN BODY, 3" CONNECTION.

BASIS OF DESIGN: FIAT TSBC-1610

FAUCET: POLISHED CHROME, COMBINATION FITTING WITH VACUUM BREAKER, 3/4" HOSE END THREADED SPOUT, WALL BRACE, PAIL HOOK, INTEGRAL STOPS, ADJUSTABLE SUPPLY ARMS.

BASIS OF DESIGN: CHICAGO 897

HOSE AND WALL HOOK: 5/8" FLEXIBLE HEAVY DUTY RUBBER HOSE, 30" LONG, CLOTH REINFORCED, 3/4" CHROME COUPLING, STAINLESS STEEL BRACKET, 5" LONG X 3" WIDE, RUBBER GRIP

BASIS OF DESIGN: FIAT 832 AA

MOP HANGER: STAINLESS STEEL CONSTRUCTION, 24" LONG X 3" WIDE, THREE (3) RUBBER GRIPS.

BASIS OF DESIGN: FIAT 889 CC

*WALL GUARDS: STAINLESS STEEL CONSTRUCTION, TWO (2) PANELS FOR CORNER INSTALLATIONS, THREE (3) PANELS FOR RECESSED INSTALLATIONS.

BASIS OF DESIGN: MSG 2424

* PROVIDE WALL GUARDS WHEN WALLS ARE NOT TILE.

SS-1 SERVICE SINK: WHITE, CAST IRON, ACID RESISTANT ENAMEL FINISH, 22-1/4"x18-1/4"x12" DEEP, STAINLESS STEEL RIM GAURD, 2-HOLE DRILLED BACK, 8" CENTERS, HANGER MOUNTING PLATE.

BASIS OF DESIGN: KOHLER K-6714

FAUCET: POLISHED CHROME, VACUUM BREAKER SPOUT WITH PAIL HOOK, 3/4" HOSE END THREADED SPOUT, 8" ADJUSTABLE SUPPLY ARMS.

BASIS OF DESIGN: CHICAGO 305-VB

TRAP: IRON PIPE, CLEANOUT PLUG, ADJUSTABLE TRAP, INTEGRAL STAINLESS STEEL STRAINER, 3" CONNECTION.

BASIS OF DESIGN: KOHLER K-6673

EWC-1 WATER COOLER/ADA: TWO-TONE GRAY MOLDED POLYMER CABINET, STAINLESS STEEL COOLER TOP, EXPOSED WALL MOUNTED, BARRIER-FREE, FRONT PUSH BAR, CHROME PLATED TWO-STREAM BUBBLER, AUTOMATIC STREAM HEIGHT REGULATOR, POSTIVE SENSING THERMOSTAT, PROVIDE WITH OPTIONAL WATER FILTER, 7.6 GPH 50 DEG F DRINKING WATER AT 90 DEG F AMBIENT AND 80 DEG F INLET WATER.

BASIS OF DEISGN: HALSEY TAYLOR HTV8-Q

TRAP: POLISHED CHROME, 17 GAUGE, CAST BRASS CONSTRUCTION, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/4" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: MCGUIRE 8902

SUPPLY: CHROME PLATED, ANGLE STOP, SOLID BRASS, LOOSE KEY HANDLE, 1/2" COMPRESSION INLET, 3/8" COMPRESSION OUTLET, ONE REQUIRED.

BASIS OF DESIGN: ZURN Z8804LKQ-PC

CARRIER: ADJUSTABLE SUPPORT SYSTEM, STEEL UPRIGHTS, 3"X4" BASE PLATE, BASE PLATE WELDED TO UPRIGHT.

BASIS OF DESIGN: JAY R SMITH 0830

EWC-2 WATER COOLER/ADA: TWO-TONE GRAY MOLDED POLYMER CABINET, STAINLESS STEEL COOLER TOP, EXPOSED WALL MOUNTED, BI-LEVEL, BARRIER-FREE, FRONT PUSH BAR, CHROME PLATED TWO-STREAM BUBBLER, AUTOMATIC STREAM HEIGHT REGULATOR, POSTIVE SENSING THERMOSTAT, INTEGRAL LEAD REDUCING WATER FILTER, 7.6 GPH 50 DEG F DRINKING WATER AT 90 DEG F AMBIENT AND 80 DEG F INLET WATER.

BASIS OF DEISGN: HALSEY TAYLOR HTV8BL-WF-Q

TRAP: POLISHED CHROME, 17 GAUGE, CAST BRASS CONSTRUCTION, CLEANOUT PLUG, CAST ESCUTCHEON, 1-1/4" INLET X 1-1/2" OUTLET.

BASIS OF DESIGN: MCGUIRE 8902

SUPPLY: CHROME PLATED, ANGLE STOP, SOLID BRASS, LOOSE KEY HANDLE, 1/2" COMPRESSION INLET, 3/8" COMPRESSION OUTLET, ONE REQUIRED.

BASIS OF DESIGN: ZURN Z8804LKQ-PC

CARRIER: ADJUSTABLE SUPPORT SYSTEM, STEEL UPRIGHTS, 3"X4" BASE PLATE, BASE PLATE WELDED TO UPRIGHT.

BASIS OF DESIGN: JAY R SMITH 0830

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

FS-1 FLOOR SINK: 12-1/2"x12-1/2"x8" DEEP, CAST IRON, ACID RESISTANT INTERIOR COATING, SEEPAGE HOLES, FLASHING CLAMP, NICKLE BRONZE RIM AND GRATE, ALUMINUM DOME STRAINER.

BASIS OF DESIGN: JAY R. SMITH 3150C-C-13

TD-1 TRENCH DRAINS: PRECAST POLYESTER CONCRETE CHANNEL, BUILT IN 0.6% SLOPE, RADIUS BOTTOM, INTERLOCKING TONGUE AND GROOVE ENDS, 4" DOME STRAINER, AND SLOTTED STAINLESS STEEL GRATE.

BASIS OF DESIGN: JAY R. SMITH 9814 (TRENCH DRAIN)
JAY R. SMITH 9870-450-SS (GRATE)

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"

IB ICEMAKER BOX: WHITE, ABS SUPPLY BOX, 18" BRACKET, WHITE ABS FRAME, BALL VALVE WITH INTERGRAL WATER HAMMER ARRESTOR.

BASIS OF DESIGN: SIOUX CHIEF 696-1010MF

BFP-1 BACKFLOW PREVENTOR: BRASS BODY CONSTRUCTION, 33?-140? F TEMPERATURE RANGE, 125 PSI MAXIMUM WORKING PRESSURE.

BASIS OF DESIGN: WATTS SERIES N9

RPZ-1 BACKFLOW PREVENTOR: BRONZE BODY CONSTRUCTION, INTERNAL RELIEF VALVE, BALL VALVE TEST COCKS, SILICONE RUBBER DISC MATERIAL, REPLACEABLE POLYMER CHECK SEATS, REMOVABLE STAINLESS STEEL RELIEF VALVE SEAT, PROVIDE WITH AIR GAP AND ELBOW FITTINGS, MEETS ASSE STANDARD 1013.

BASIS OF DESIGN: WATTS SERIES 009

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

CP-1 CIRCULATING PUMP: CAST BRONZE PUMP CASING, STAINLESS STEEL PUMP SHAFT, GLASS FILLED POLYPROPYLENE (GLASS-FILLED) IMPELLER, GRAPHITE BEARINGS, EPDM BEARING SEAL, 3 POSITION SLIDE SWITCH ON/AUTO/OFF, INTEGRAL AQUASTAT FACTORY SET AT 85 DEG F LOW/105 DEG F HIGH, INTEGRAL 12 HOUR ANALOG CLOCK/TIMER, 5 FOOT POWER CORD, MOLDED DUPLEX PLUG WITH GROUND, CAPABLE OF 4 GPM @ 15 FT OF HEAD.

BASIS OF DEISGN: ARMSTRONG "ASTRO" 50B-TA

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MOUNTING	WASTE (MIN)	VENT (MIN)	CW (MIN)	HW (MIN)
WC-1	FLUSH VALVE WATER CLOSET	FLOOR	4"	2"	1-1/4"	-
WC-2	FLUSH VALVE WATER CLOSET/ADA	FLOOR	4"	2"	1-1/4"	-
U-1	URINAL	WALL	2"	1-1/2"	3/4"	-
U-2	URINAL/ADA	WALL	2"	1-1/2"	3/4"	-
L-1	LAVATORY	COUNTER	2"	1-1/2"	1/2"	1/2"
L-2	LAVATORY/ADA	WALL	2"	1-1/2"	1/2"	1/2"
L-3	LAVATORY	WALL	2"	1-1/2"	1/2"	1/2"
S-1	SINK	COUNTERTOP	2"	1-1/2"	1/2"	1/2"
S-2	THREE COMPARTMENT SINK	COUNTERTOP	2"	1-1/2"	1/2"	1/2"
MB-1	MOP BASIN	FLOOR	3"	2"	3/4"	3/4"
MB-2	MOP BASIN	FLOOR	3"	2"	3/4"	3/4"
SS-1	SERVICE SINK	FLOOR	3"	2"	3/4"	3/4"
EWC-1	ELECTRIC WATER COOLER	WALL	2"	1-1/2"	1/2"	-
EWC-2	ELECTRIC WATER COOLER (BY-LEVEL)	WALL	2"	1-1/2"	1/2"	-
FD-1	FLOOR DRAIN	FLOOR	2"	1-1/2"	-	-
FD-2	FLOOR DRAIN	FLOOR	3"	1-1/2"	-	-
FS-1	FLOOR SINK	FLOOR	3"	1-1/2"	-	-
HB-1	HOSE BIBB	WALL	-	-	3/4"	-
WH-1	WALL HYDRANT	WALL	-	-	3/4"	-

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.
- THESE DOCUMENTS SHALL FOLLOW THE ADA GUIDELINES FOR ACCESSIBILITY TO PLACES OF PUBLIC ACCOMMODATION AND COMMERCIAL FACILITIES BY INDIVIDUALS WITH DISABILITIES. THESE GUIDELINES ARE TO BE APPLIED DURING DESIGN, CONSTRUCTION AND ALTERATION OF SUCH BUILDING AND FACILITIES TO THE EXTENT REQUIRED BY REGULATIONS ISSUED BY FEDERAL AGENCIES, INCLUDING THE DEPARTMENT OF JUSTICE, UNDER THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 AND THE REQUIREMENTS OF ANSI A117.1.
- 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.
- ALL PIPING SHALL BE INSTALLED AS CLOSE TO PLANS AS POSSIBLE. REVISIONS TO PIPING SHALL BE MADE ONLY WHEN A CONFLICT WITH OTHER TRADES OCCURS AND SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
- 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.
- WHERE PLUMBING SERVICES ARE REQUIRED FOR EQUIPMENT FURNISHED UNDER OTHER TRADES OR PROVIDED BY THE OWNER (OFCI), THE CONTRACTOR SHALL DETERMINED ACCURATE ROUGHING REQUIREMENTS IN ADVANCE OF WORK, SET EQUIPMENT IN PLACE AND MAKE NECESSARY SERVICE CONNECTIONS. PROVIDE ACCESSORIES AS REQUIRED. REFER TO "OFCI CONNECTION SCHEDULE" AND KITCHEN EQUIPMENT DRAWINGS WHERE APPLICABLE
- 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 7 2006 REVISIONS, INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
- THE LOCATION OF ALL CLEANOUTS, VALVES, GAUGES, ETC.. SHALL BE LOCATED FOR ACCESS AND/OR SERVICE IN REFERENCE TO THE FINISHED BUILDING. REFER TO THE DRAWINGS FOR APPLICABLE DETAILS. WALL CLEANOUTS SHALL BE 18" A.F.F. AND FLOOR CLEANOUTS SHALL BE LOCATED WITHIN 12" OF AND ADJACENT WALL.
- 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.
- ALL FLOOR DRAINS SHALL BE SERVED BY AN APPROVED TRAP PRIMER. EXCEPTION: SHOWER AND KITCHEN DRAINS.
- ALL HOSE BIBBS, WALL HYDRANTS AND HOSE END CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED INTEGRAL VACUUM BREAKER.
- DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS (SUCH AS COPPER TO GALVANIZED STEEL).
- ALL VENT PENETRATIONS THRU THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.
- UNLESS NOTED OTHERWISE, ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE INSTALLED 24" ABOVE FINISHED FLOORS OR GRADE.
- 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.

WATER HEATER SCHEDULE

MARK	EWH-1
MANUFACTURER	A.O. SMITH
MODEL NUMBER	DVE-250-30
TYPE	ELECTRIC
VOLTS/PHASE/HERTZ	480/3/60
KW	30
NO. OF ELEMENTS	3
LEAVING WATER TEMP.	140°F
STORAGE CAPACITY (GAL)	250
GAL PER HR RECOVERY @ 100°F RISE	123
DIMENSIONS	93"H x 36"L x 43"D
EXPANSION TANK	AMTROL-ST-20V-C

NOTES:
1. UNIT SHALL BE COMPLETE PACKAGE WITH INSULATED TANK, HEATING ELEMENT(S), TEMPERATURE PRESSURE RELIEF VALVE AND ALL REQUIRED VALVES, T



NORTH

PLUMBING FIRST FLOOR - SANITARY - ZONE A

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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PROJECT NUMBER: 07014

SIGNATURE
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PE 0049347
DATE

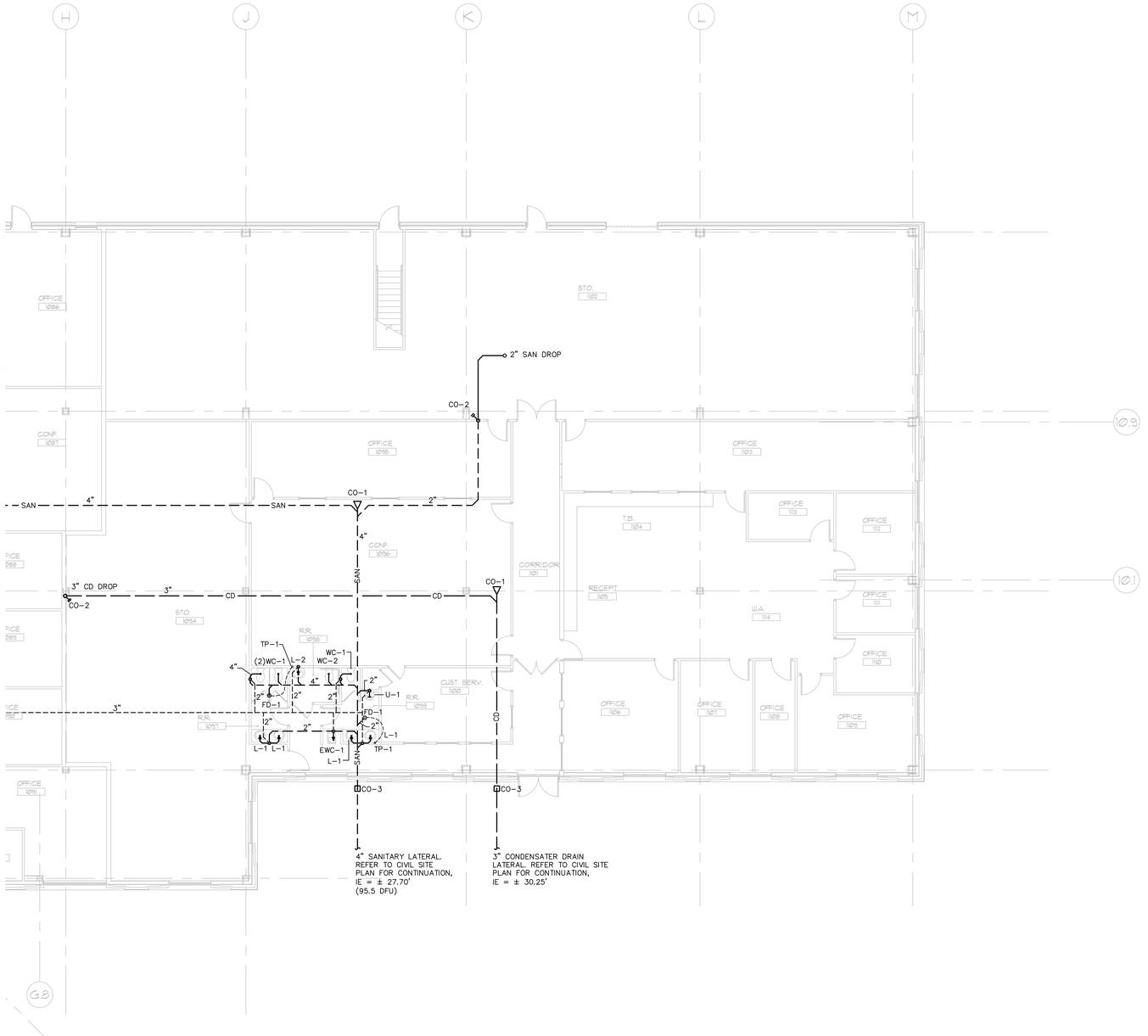
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PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING FIRST FLOOR
SANITARY - ZONE A

SHEET NUMBER:
P1.1A



NORTH

PLUMBING FIRST FLOOR - SANITARY - ZONE B

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

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PE 0049347

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

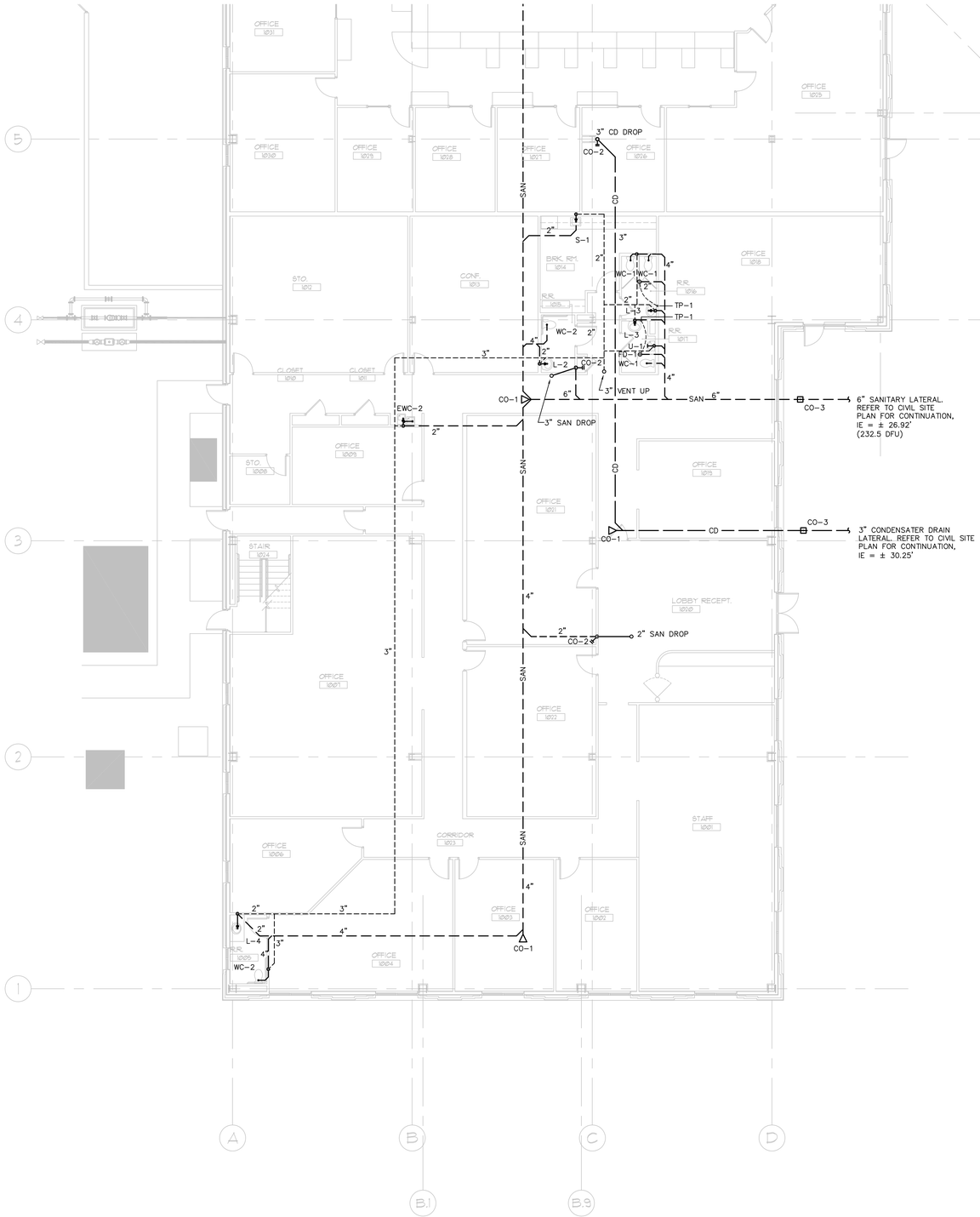
PANAMA CITY, FLORIDA

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
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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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING FIRST FLOOR SANITARY - ZONE C

SHEET NUMBER:

P1.1C


2" SAN DN
1-1/2"
3" VENT UP & DN
4" SAN UP & DN
WC-2
L-2
4" DROP
3" CD DN.
3" VENT UP & DN
4" SAN DN
TP-1
L-1
WC-1
SS-1
MB-2
FD-1
EWC-2
WC-2
L-1 (TYP.)
4" SAN DN
3" VENT UP
4" SAN DROP
3" VENT DN
EWC-2
AHU-7
3"
3" HUB DRAIN
3" CD DN.
OFFICE 2078
OFFICE 2079
OFFICE 2080
OFFICE 2081
OFFICE 2101
OFFICE 2102
OFFICE 2103
OFFICE 2104
OFFICE 2105
OFFICE 2106
OFFICE 2107
OFFICE 2108
OFFICE 2109
OFFICE 2110
OFFICE 2111
OFFICE 2112
OFFICE 2113
OFFICE 2114
OFFICE 2115
CONF. 2116
CONF. 2117
RECEPT. 2101
UNFINISHED 2116
CORRIDOR 2086
CORRIDOR 2114
STO. 2100
STAIRS 2076
BRK. 2092
CONF. 2090
W.A. 2084
STAIRS 2093
FILE 2110
MECH. 2109
STO. 119
JAN. 1135
OFFICE 1137
OFFICE 2142
OFFICE 2139
OFFICE 2140
RR. 1133
RR. 2134
RR. 1136
STOR. 1138
OFFICE 2077
OFFICE 2078
OFFICE 2079
OFFICE 2080
OFFICE 2081
OFFICE 2082
OFFICE 2083
OFFICE 2084
OFFICE 2085
OFFICE 2086
OFFICE 2087
OFFICE 2088
OFFICE 2089
OFFICE 2090
OFFICE 2091
OFFICE 2092
OFFICE 2093
OFFICE 2094
OFFICE 2095
OFFICE 2096
OFFICE



NORTH

PLUMBING SECOND FLOOR - SANITARY - ZONE B

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

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

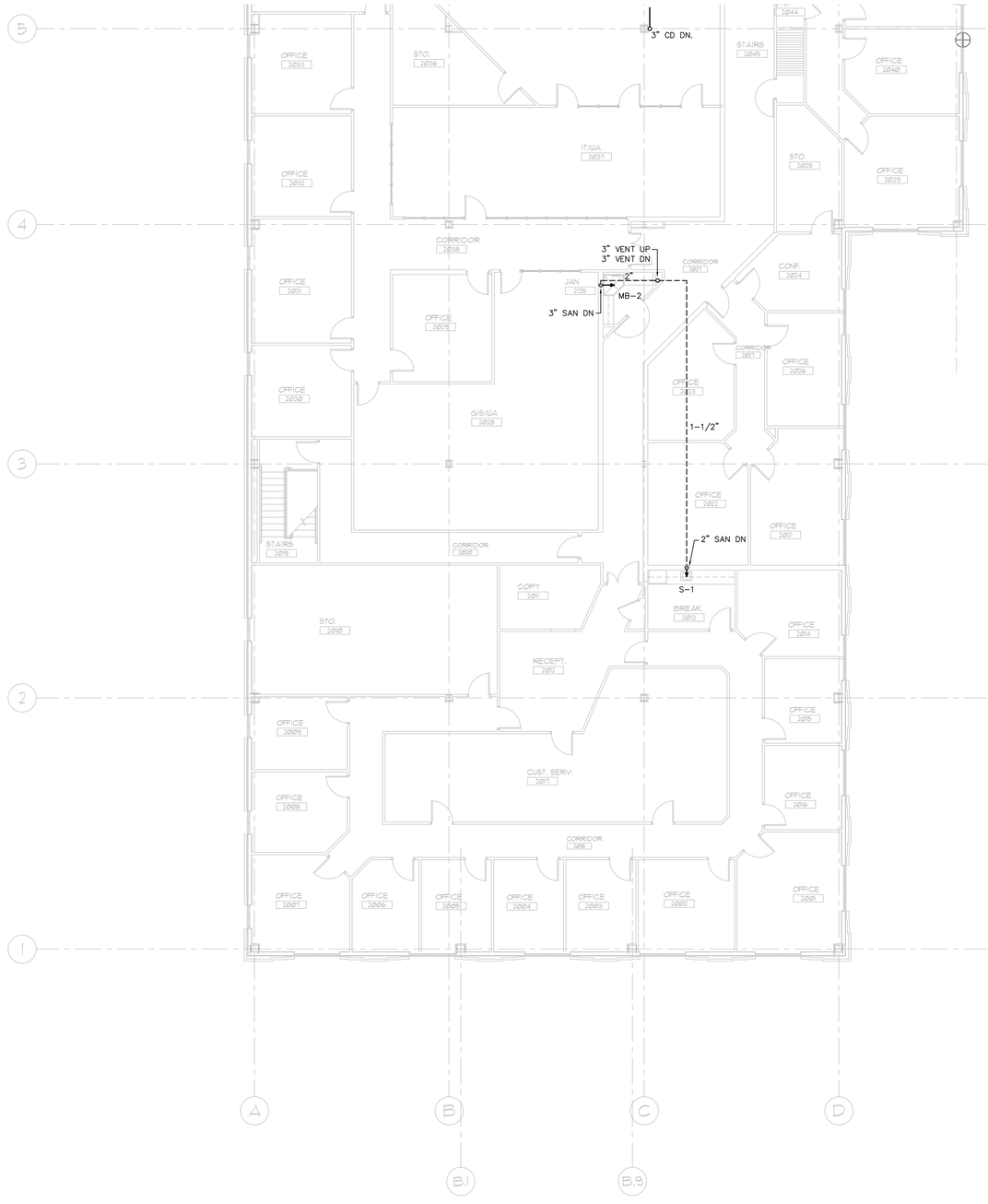
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR SANITARY - ZONE B

SHEET NUMBER:

P1.2B



NORTH

PLUMBING SECOND FLOOR - SANITARY - 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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

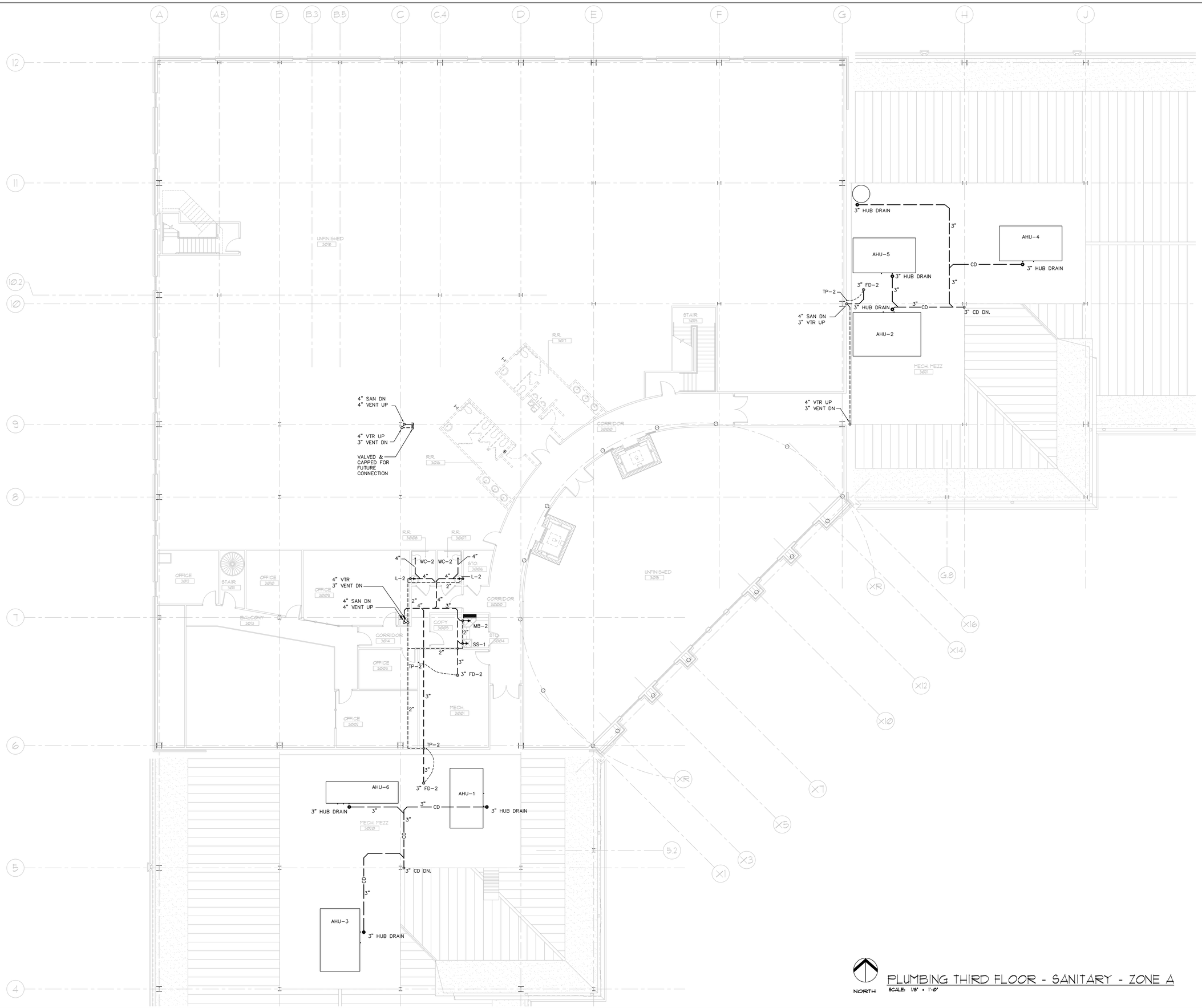
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR SANITARY - ZONE C

SHEET NUMBER:

P1.2C



PLUMBING THIRD FLOOR - SANITARY - ZONE A

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

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PROJECT NUMBER: 07014

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING THIRD FLOOR
SANITARY - ZONE A

SHEET NUMBER:

P1.3A



NORTH

PLUMBING FIRST FLOOR- WATER - ZONE A

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

PLUMBING KEY NOTES

1. 2-1/2" CW UP TO FLOOR ABOVE.
2. 2" HW DN FROM FLOOR ABOVE.
3. 3/4" HWR UP TO FLOOR ABOVE.
4. NOT USED
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 1" MAKE-UP WATER, REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING FIRST FLOOR WATER - ZONE A

SHEET NUMBER:
P2.1A



PLUMBING KEY NOTES

1. 2-1/2" CW UP TO FLOOR ABOVE.
2. 2" HW DN FROM FLOOR ABOVE.
3. 3/4" HWR UP TO FLOOR ABOVE.
4. NOT USED
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 1" MAKE-UP WATER, REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.

NORTH

PLUMBING FIRST FLOOR - WATER - ZONE B

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

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PROJECT NUMBER: 07014

SIGNATURE DATE
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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

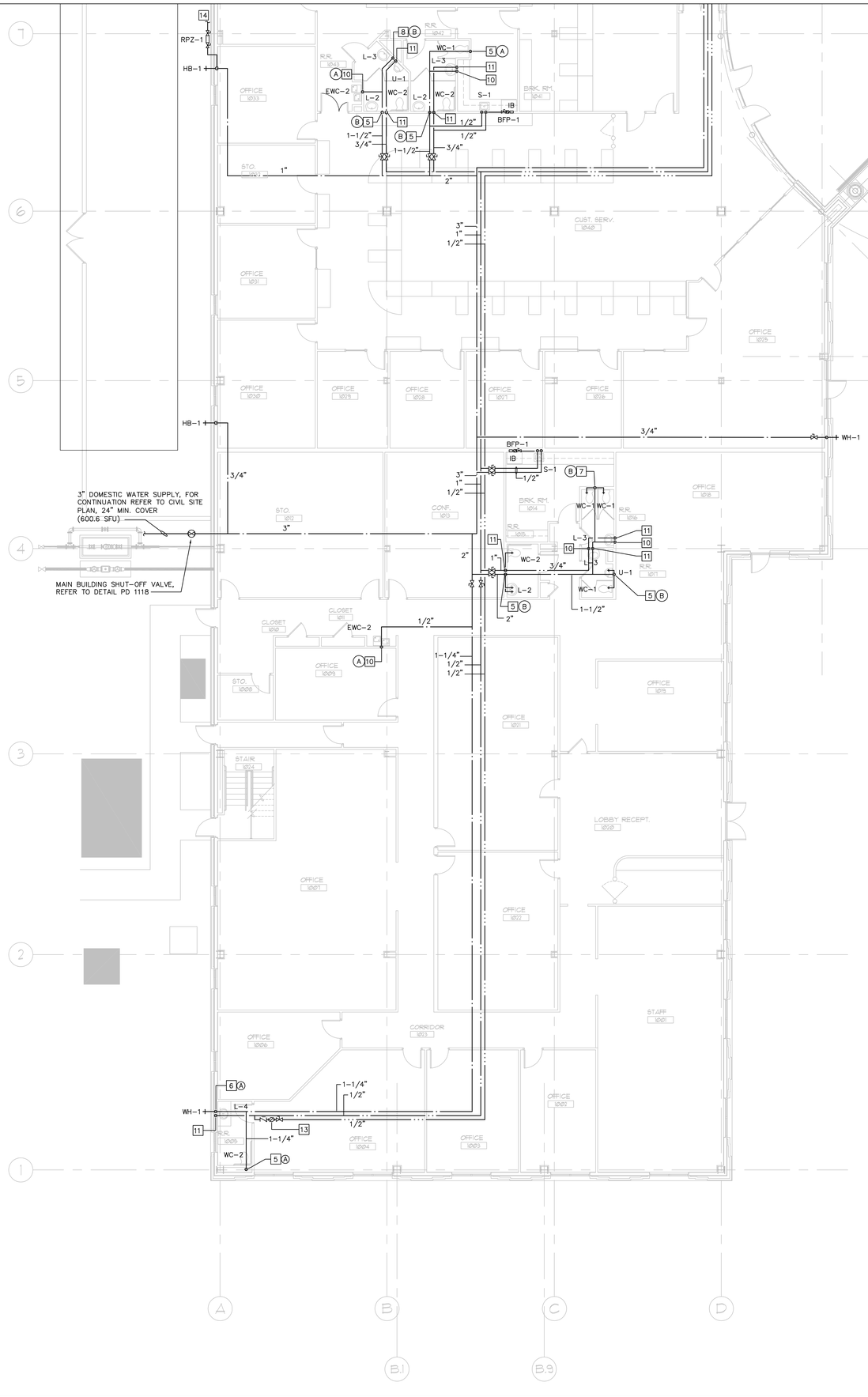
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING FIRST FLOOR
WATER - ZONE B

SHEET NUMBER:

P2.1B



PLUMBING KEY NOTES

1. 2-1/2" CW UP TO FLOOR ABOVE.
2. 2" HW DN FROM FLOOR ABOVE.
3. 3/4" HWR UP TO FLOOR ABOVE.
4. NOT USED
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 1" MAKE-UP WATER, REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.

NORTH

PLUMBING FIRST FLOOR - WATER - ZONE C

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
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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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING FIRST FLOOR WATER - ZONE C

SHEET NUMBER:

P2.1C



PLUMBING KEY NOTES

1. 2-1/2" CW UP IN WALL FROM FIRST FLOOR TO THIRD FLOOR.
2. 2" HW DN IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
3. 3/4" HWR IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
4. 1-1/2" CW AND 1" HW VALVED AND CAPPED FOR FUTURE CONNECTION.
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 3/4" CW DN IN WALL TO AHU-7 FOR INTERNAL HUMIDIFIER.

NORTH

PLUMBING SECOND FLOOR - WATER - ZONE A

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

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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SECOND FLOOR WATER - ZONE A

SHEET NUMBER:
P2.2A



PLUMBING KEY NOTES

1. 2-1/2" CW UP IN WALL FROM FIRST FLOOR TO THIRD FLOOR.
2. 2" HW DN IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
3. 3/4" HWR IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
4. 1-1/2" CW AND 1" HW VALVED AND CAPPED FOR FUTURE CONNECTION.
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 3/4" CW DN IN WALL TO AHU-7 FOR INTERNAL HUMIDIFIER.

NORTH

PLUMBING SECOND FLOOR- WATER - ZONE B

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

REVISIONS:

NO.	DESCRIPTION	DRAWN	CHECKED	DATE

PHASE:	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	-	-	03-20-07
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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PROJECT NUMBER: 07014

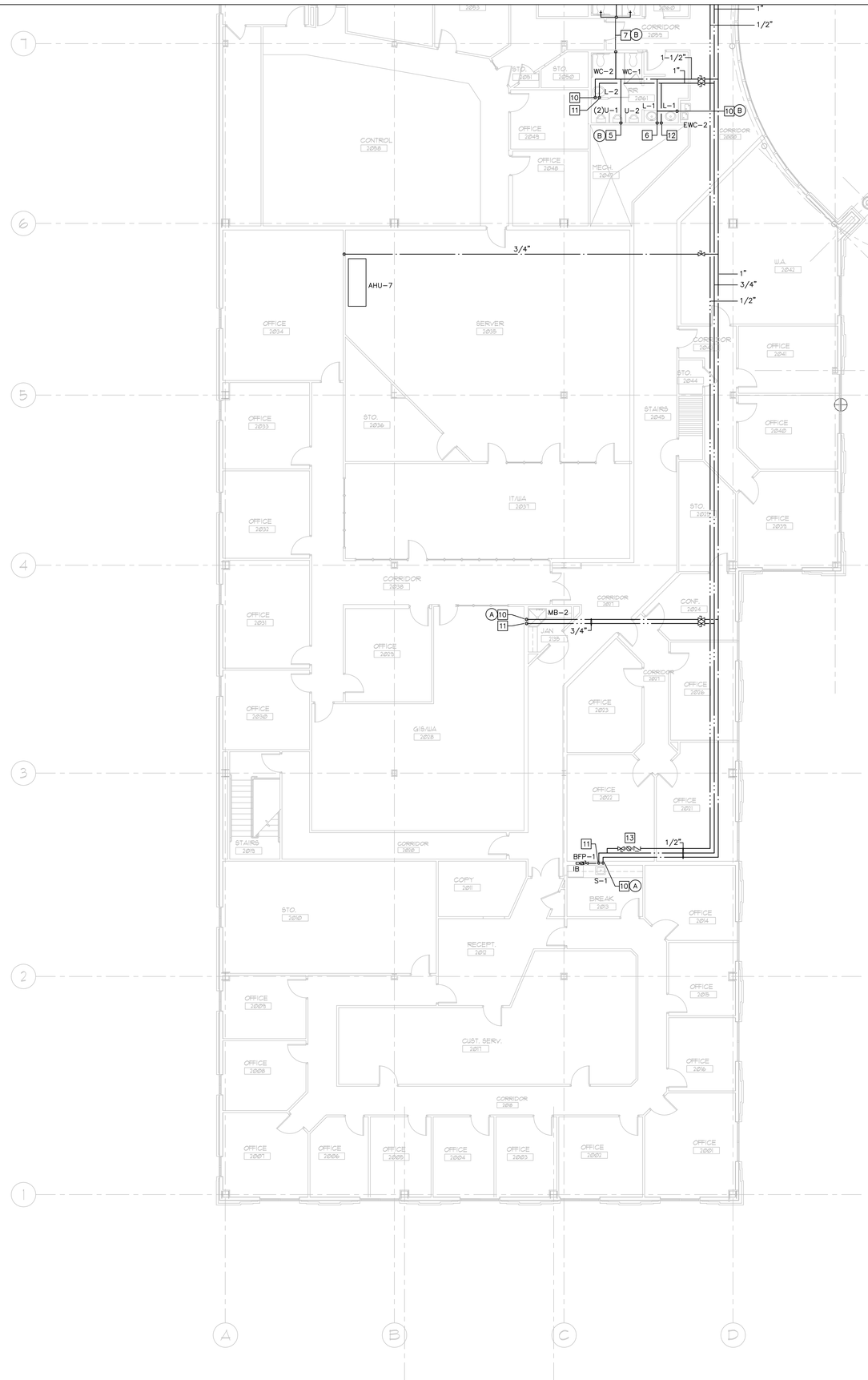
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PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

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"

PLUMBING KEY NOTES

1. 2-1/2" CW UP IN WALL FROM FIRST FLOOR TO THIRD FLOOR.
2. 2" HW DN IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
3. 3/4" HWR IN WALL FROM THIRD FLOOR TO FIRST FLOOR.
4. 1-1/2" CW AND 1" HW VALVED AND CAPPED FOR FUTURE CONNECTION.
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 3/4" CW DN IN WALL TO FIXTURES
7. 1-1/2" CW DN IN WALL TO FIXTURES
8. 1" CW DN IN WALL TO FIXTURES
9. 1" HW DN IN WALL TO FIXTURES
10. 1/2" CW DN IN WALL TO FIXTURES
11. 1/2" HW DN IN WALL TO FIXTURES
12. 3/4" HW DN IN WALL TO FIXTURES
13. BALANCING VALVE SET @ 1 GPM
14. 3/4" CW DN IN WALL TO AHU-7 FOR INTERNAL HUMIDIFIER.

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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CERTIFICATE NUMBER:
PROJECT NUMBER: 07014

SIGNATURE DATE
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

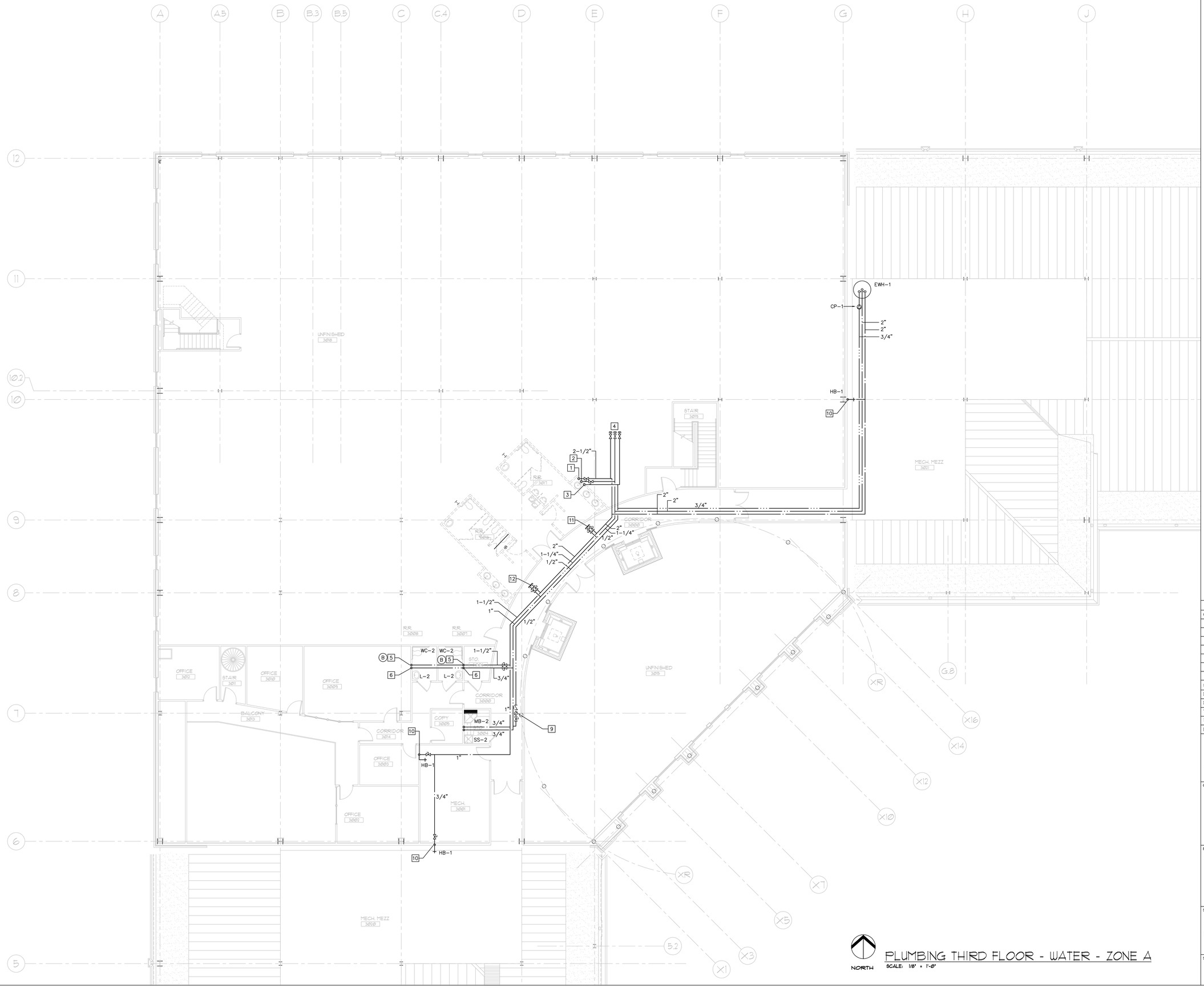
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SECOND FLOOR WATER - ZONE C

SHEET NUMBER:

P2.2C



NORTH

PLUMBING THIRD FLOOR - WATER - ZONE A

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

PLUMBING KEY NOTES

1. 2-1/2" CW UP IN WALL FROM FLOOR BELOW
2. 2" HW DN IN WALL TO FLOOR BELOW
3. 3/4" HWR UP IN WALL FROM FLOOR BELOW
4. 2" CW, 1" HW AND 3/4" HWR VALVED AND CAPPED FOR FUTURE CONNECTION.
5. 1-1/4" CW DN IN WALL TO FIXTURES
6. 1/2" HW DN IN WALL TO FIXTURES
7. 1" CW DN IN WALL TO FIXTURES
8. 1" HW DN IN WALL TO FIXTURES
9. BALANCING VALVE SET @ 1 GPM
10. 3/4" CW DN IN WALL TO FIXTURES
11. 1-1/2" CW & 1" HW VALVED & CAPPED FOR FUTURE CONNECTION.
12. 2" CW & 1" HW VALVED & CAPPED FOR FUTURE CONNECTION.

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: 06318

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EB 0000366
PROJECT NUMBER: 07014

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

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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

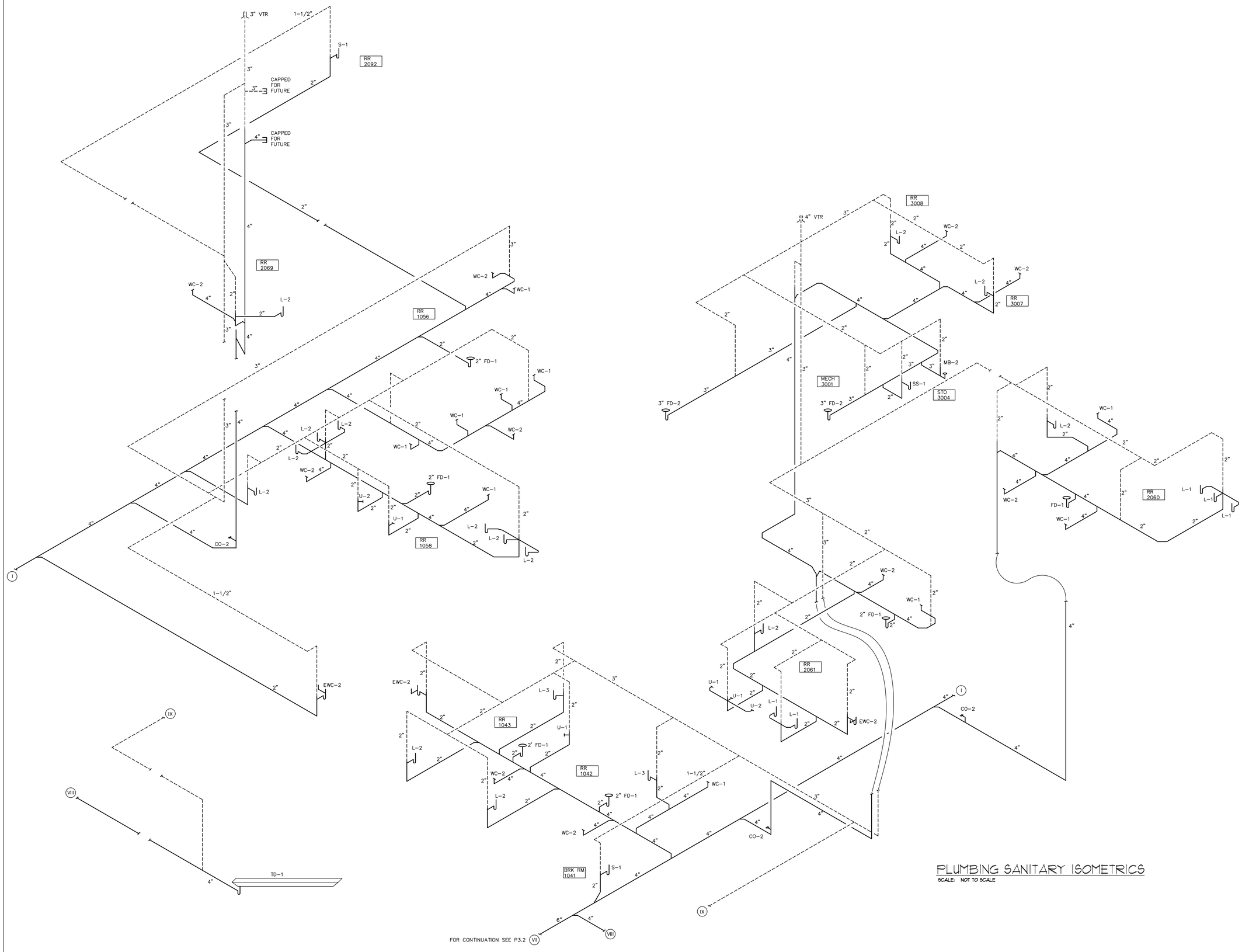
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING THIRD FLOOR WATER - ZONE A

SHEET NUMBER:

P2.3A



FOR CONTINUATION SEE P3.2 (VII)

PLUMBING SANITARY ISOMETRICS

SCALE: NOT TO SCALE

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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Commission Number: 06318

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PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0000362
PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347
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PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

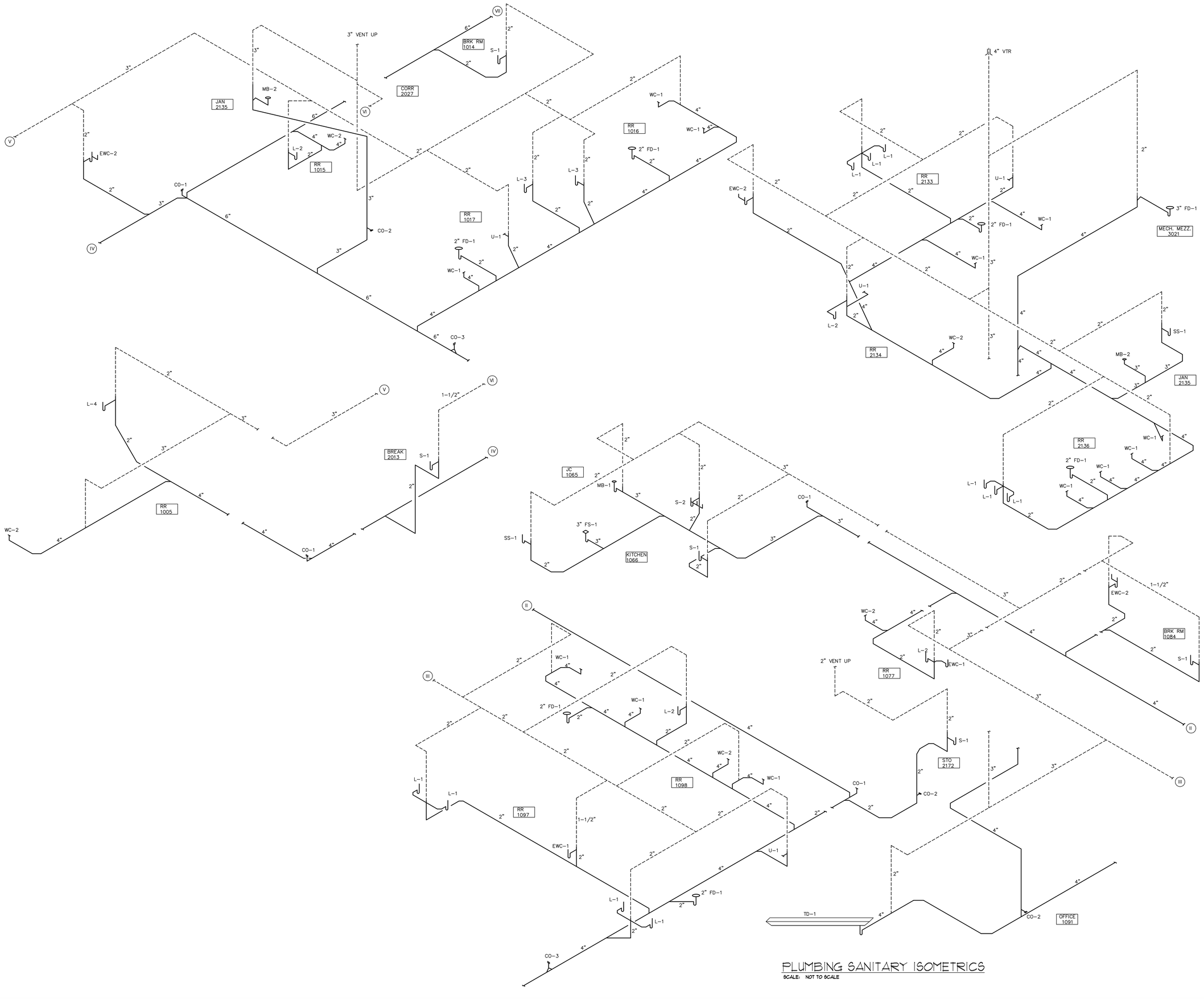
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SANITARY RISER DIAGRAMS

SHEET NUMBER:

P3.1



PLUMBING SANITARY ISOMETRICS

SCALE: NOT TO SCALE

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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Commission Number: 06318

CONSULTANTS:
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8365 GUNN HIGHWAY
TAMPA, FLORIDA 33626
PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 00003962
PROJECT NUMBER: 07014

SIGNATURE DATE
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PE 0049347

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PROJECT:

BAY COUNTY
ADMINISTRATION BUILDING

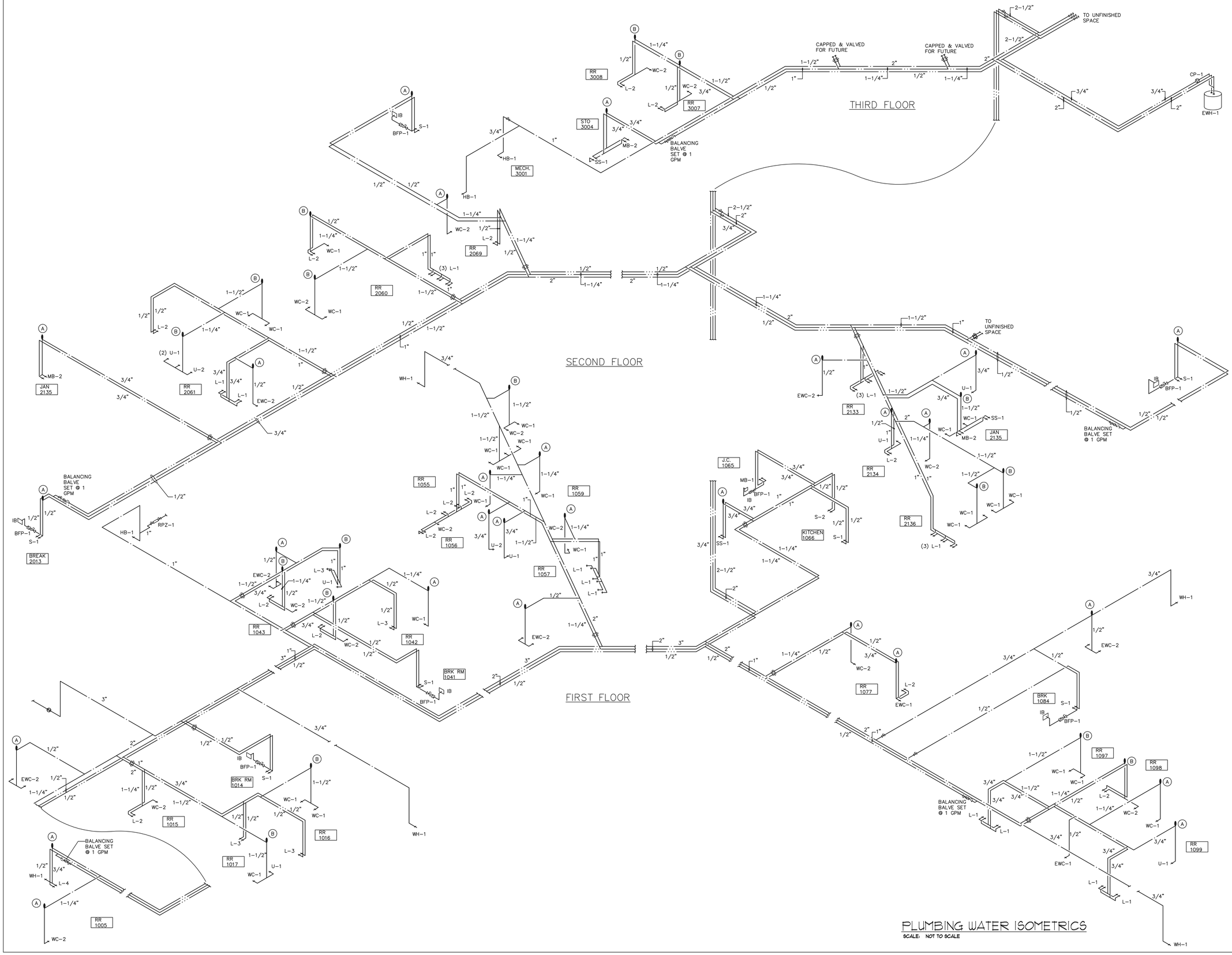
PANAMA CITY, FLORIDA

SHEET TITLE:

PLUMBING SANITARY
RISER DIAGRAMS

SHEET NUMBER:

P3.2



PLUMBING WATER ISOMETRICS

SCALE: NOT TO SCALE

REVISIONS:

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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
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

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PHONE: (813) 448-0225
FAX: (813) 448-0226
EB 0000362
PROJECT NUMBER: 07014

SIGNATURE DATE
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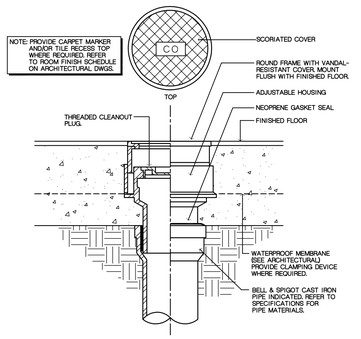
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING WATER RISER DIAGRAMS

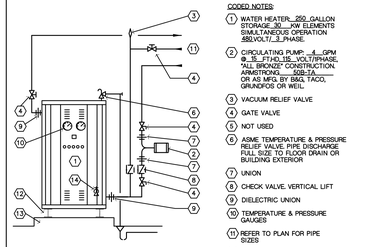
SHEET NUMBER:
P3.3

CO-1 FLOOR CLEANOUT



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0101

EWH-1 ELECTRIC WATER HEATER

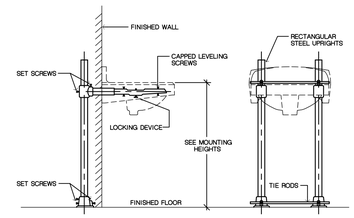


CODED NOTES:

1. WATER HEATER: 250 GALLON STORAGE, 30 KW ELEMENTS SIMULTANEOUS OPERATION 480 VOLT/ 3 PHASE
2. CIRCULATING PUMP: 4 GPM @ 15' FTHD, 115 VOLT/PHASE, "ALL BRONZE" CONSTRUCTION, ARMSTRONG 026-1A OR AS MFG. BY B&G, TACO, GRUNDFOS OR WEIL
3. VACUUM RELIEF VALVE
4. GATE VALVE
5. NOT USED
6. ASME TEMPERATURE & PRESSURE RELIEF VALVE PIPE DISCHARGE FULL SIZE TO FLOOR DRAIN OR BUILDING EXTERIOR
7. UNION
8. CHECK VALVE, VERTICAL LIFT
9. DIELECTRIC UNION
10. TEMPERATURE & PRESSURE GAUGES
11. REFER TO PLAN FOR PIPE SIZES
12. MIN. 4"HIGH HEATER SUPPORTS
13. HOUSEKEEPING PAD, MIN. 4" HIGH
14. BRASS DRAIN VALVE

CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-10-05 | PD-0812

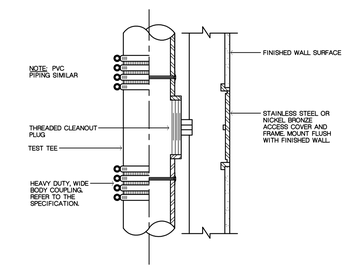
LAVATORY CARRIER



GENERAL NOTES:
CARRIER SHALL BE ABLE TO WITHSTAND AN APPLIED VERTICAL LOAD OF A MINIMUM OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
PROVIDE EXTENDED ARMS AT WHEELCHAIR LAVATORIES.

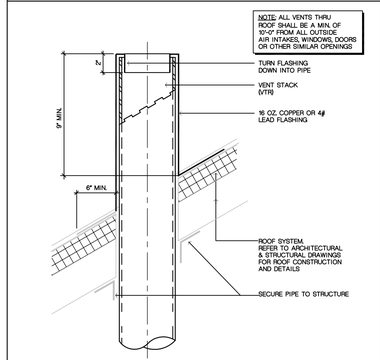
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0405

CO-2 WALL CLEANOUT HUBLESS CAST IRON PIPE W/ACCESS COVER



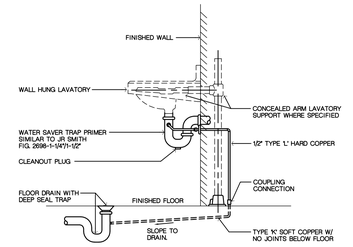
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0102

VENT THRU ROOF (VTR)



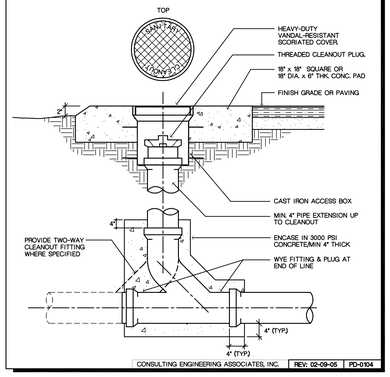
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-10-05 | PD-0705A

TP-1 WATER SAVER TRAP PRIMER



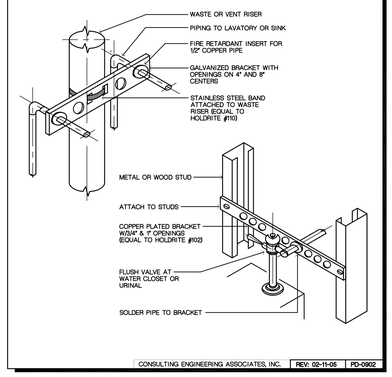
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0406

CO-3 EXTERIOR CLEANOUT



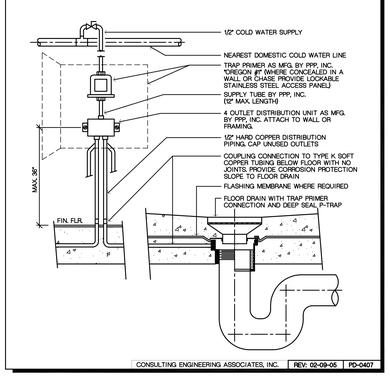
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0104

WATER PIPING SUPPORTS



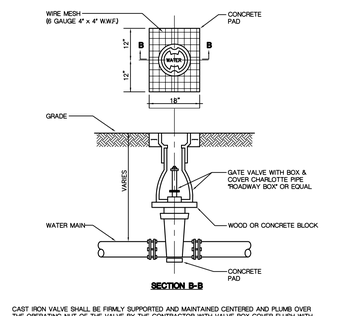
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-11-05 | PD-0902

TP-2 TRAP PRIMER



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0407

GATE VALVE, VALVE BOX & PAD INSTALLATION

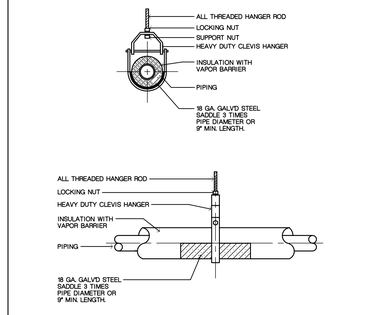


SECTION B-B

CAST IRON VALVE SHALL BE FIRMLY SUPPORTED AND MAINTAINED CENTERED AND PLUMB OVER THE OPERATING NUT OF THE VALVE BY THE CONTRACTOR WITH VALVE BOX COVER FLUSH WITH THE SURFACE OF THE FINISHED PAVEMENT OR AT SUCH OTHER LEVEL AS MAY BE DIRECTED.

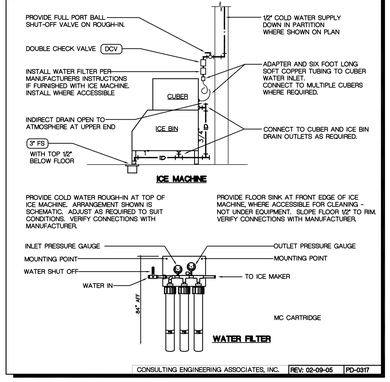
CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-14-05 | PD-1118

PIPE HANGERS



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-11-05 | PD-0905

ICE MACHINE CONNECTION



CONSULTING ENGINEERING ASSOCIATES, INC. | REV: 02-09-05 | PD-0317

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

JRA Architects, Inc.
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Commission Number: 06318

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C.O.A. 0000809
PROJECT NUMBER: 07014

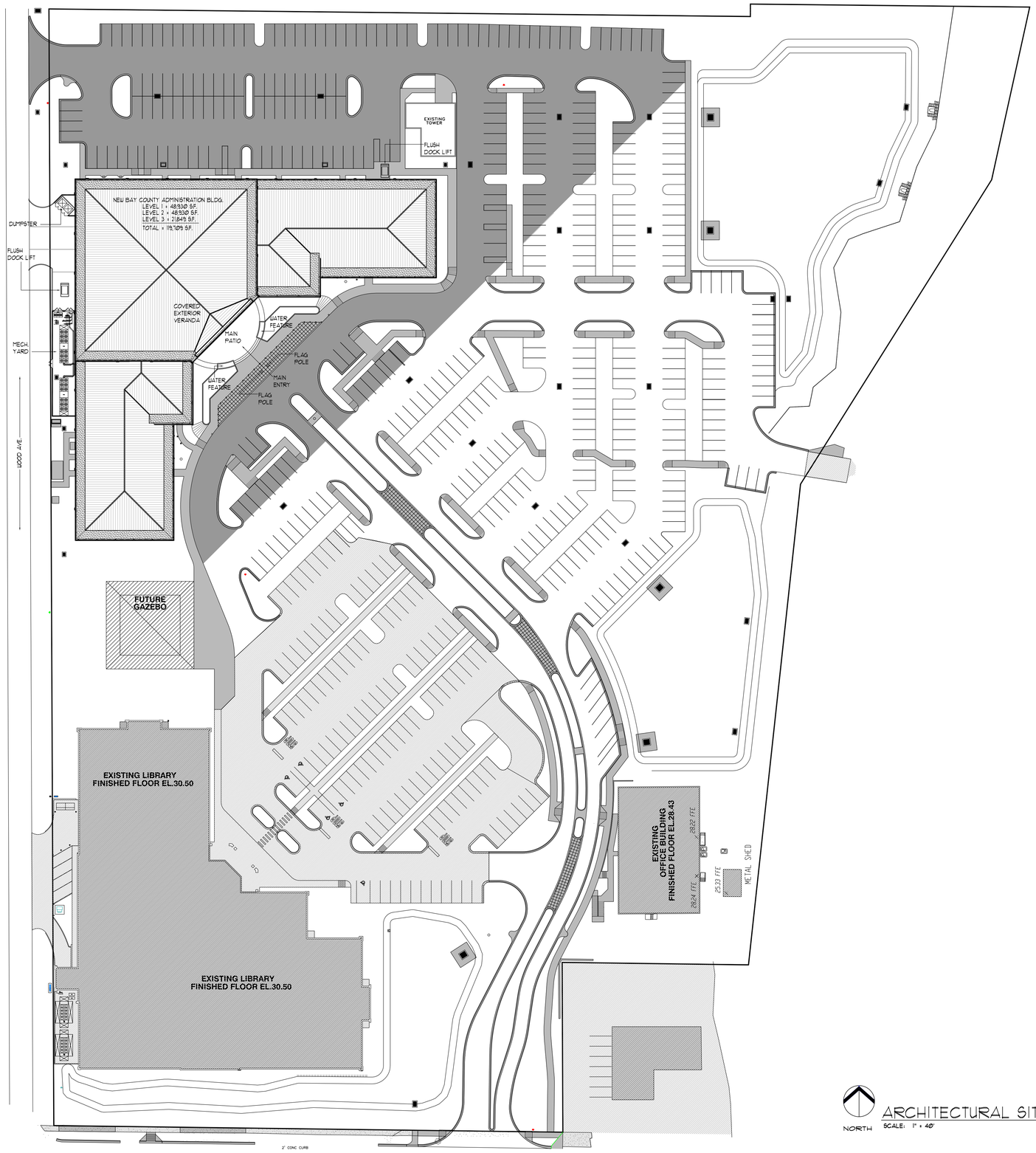
SIGNATURE DATE
JOHN W. WELLS, III, P.E.
PE 0049347

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CONSULTING ENGINEERING ASSOCIATES, INC.

PROJECT:
BAY COUNTY
ADMINISTRATION BUILDING
PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P4.1



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. 19/A9.3
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	·	·	01-18-08
BID DOCUMENTS			03-03-08

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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

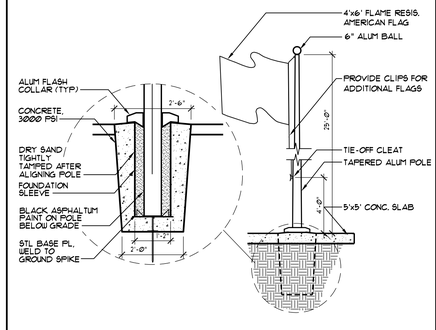
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ARCHITECTURAL SITE PLAN

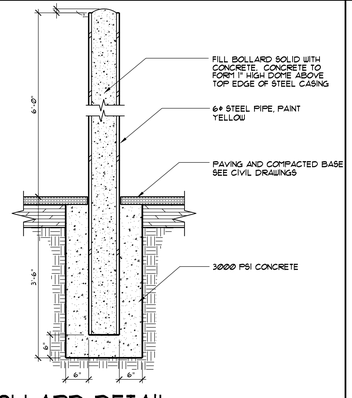
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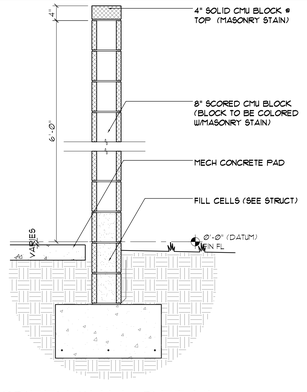
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3 FLAGPOLE DETAIL
SCALE: 1/2" = 1'-0"
A-DT-0604



2 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"
A-DT-0603



1 SCREEN WALL DETAIL
SCALE: 3/4" = 1'-0"
A-DT-0602

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
100% PROGRESS SET	-	-	01-18-08
BID DOCUMENTS	-	-	03-03-08

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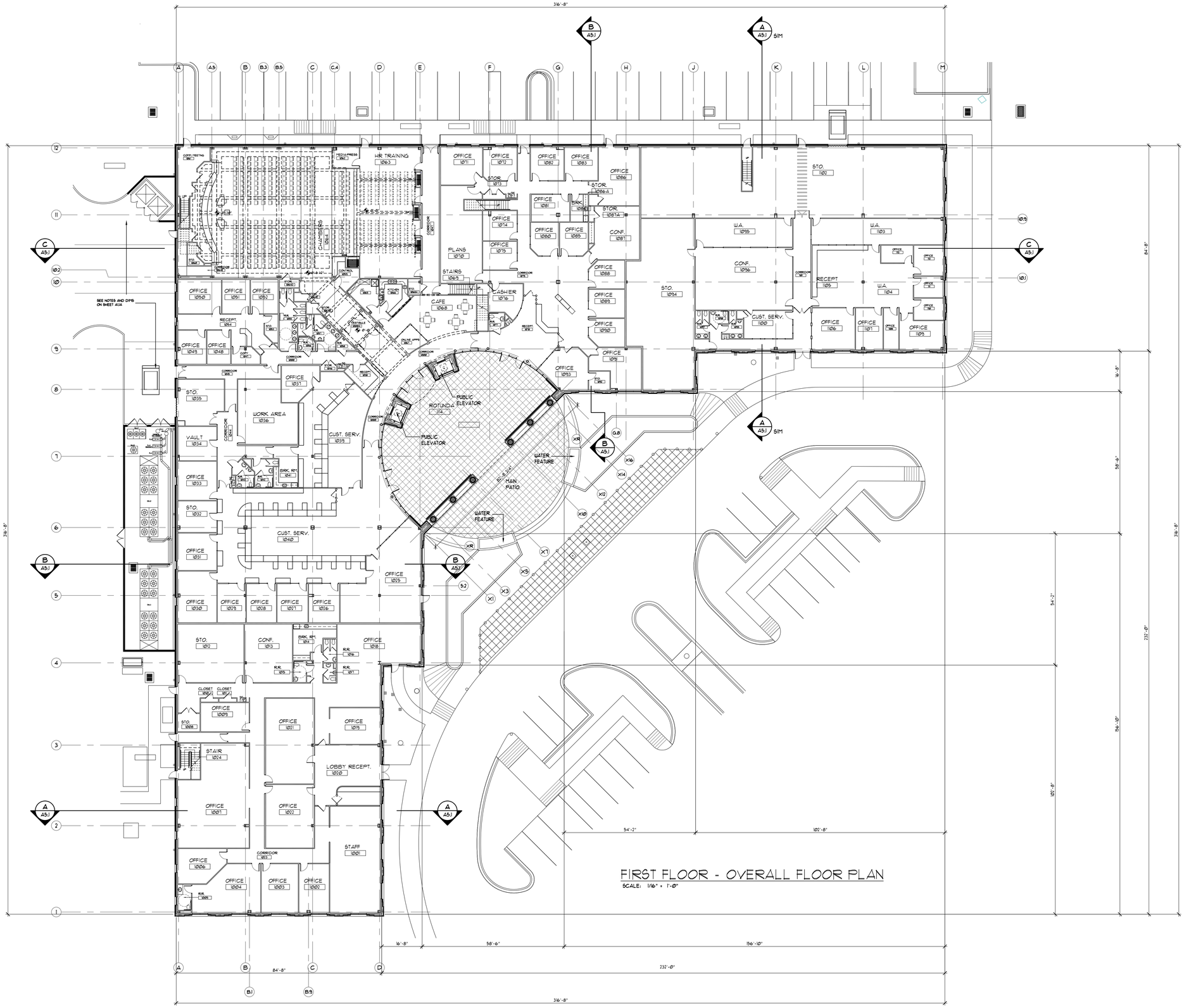
PROJECT:
BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

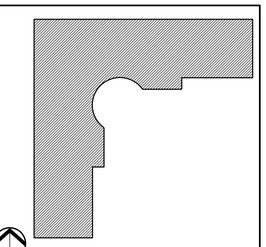
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SITE DETAILS

SHEET NUMBER:
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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 GUB/ 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
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BID DOCUMENTS	-	-	03-03-08

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PHONE: (850) 236-9632
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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

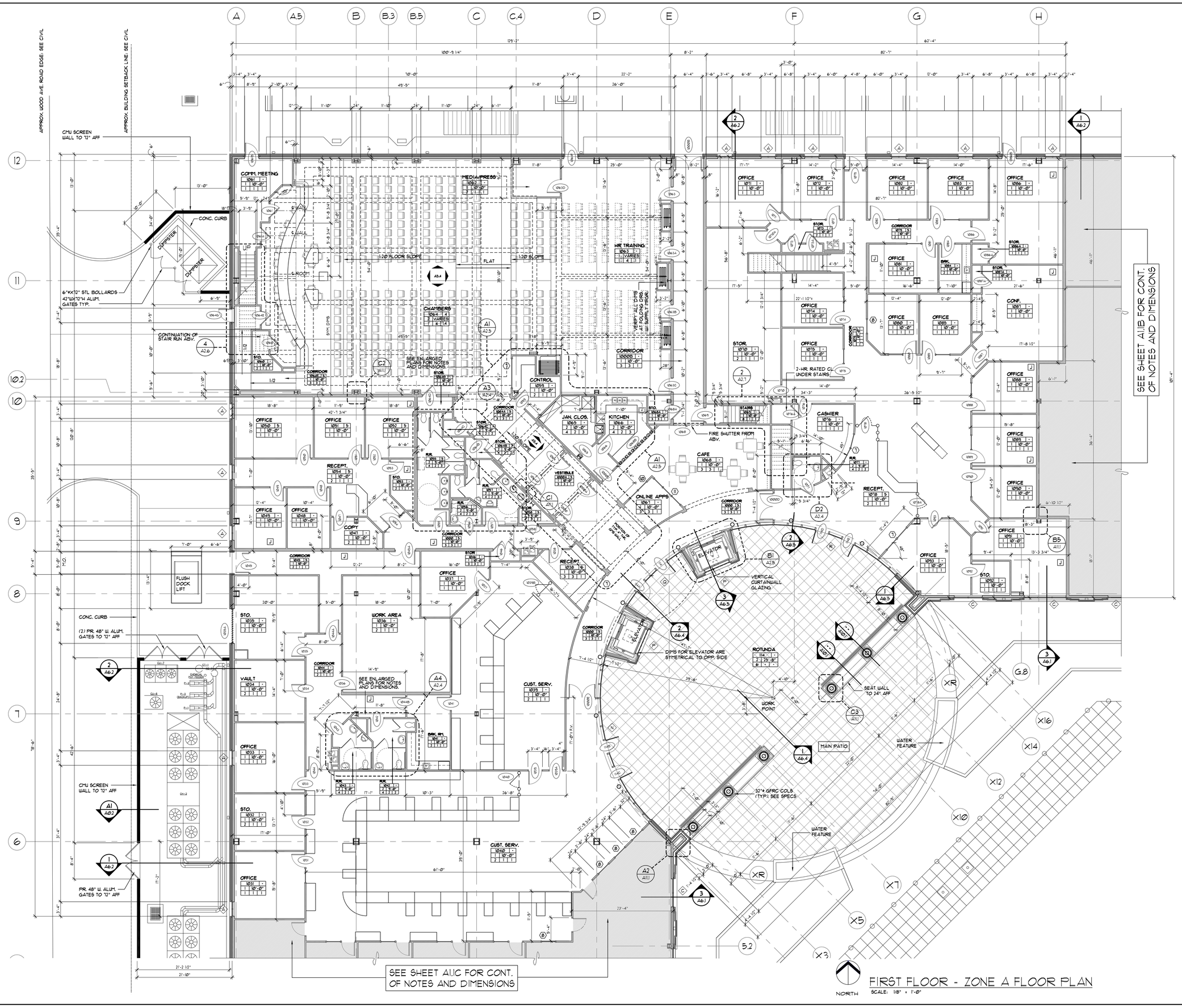
PANAMA CITY, FLORIDA

SHEET TITLE:

FIRST FLOOR OVERALL FLOOR PLAN

SHEET NUMBER:

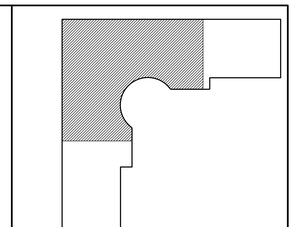
A1.1



NORTH

FIRST 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. 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 GUB/ 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 GYP. 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
100% PROGRESS SET	·	·	01-18-08
BID DOCUMENTS	·	·	03-03-08

JRA Architects, Inc.
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PHONE: (850) 236-9832
FAX: (850) 230-3564
Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

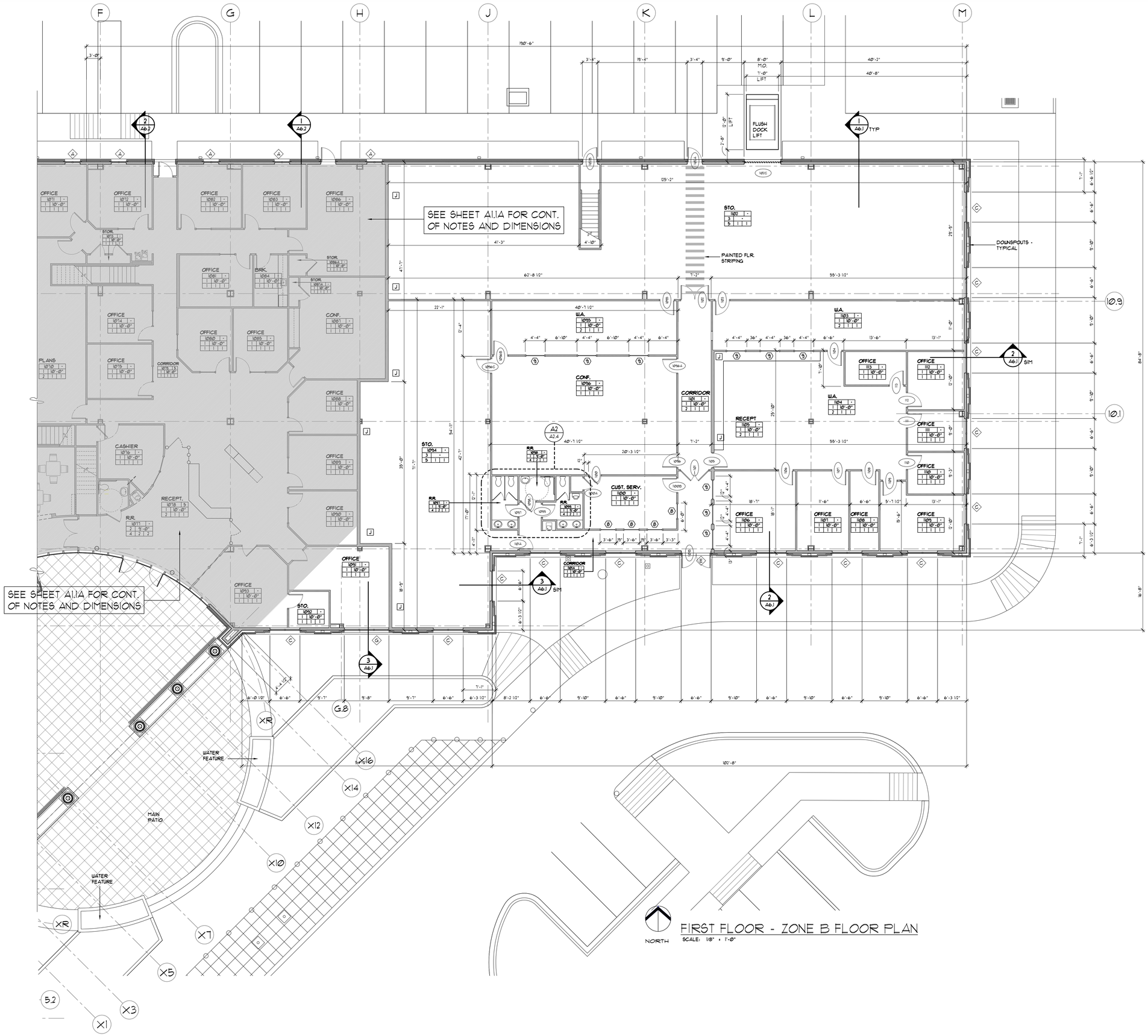
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FIRST FLOOR ZONE A FLOOR PLAN

SHEET NUMBER:

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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

FINISHES KEY

SPACE NAME

SPACE No — REMARKS

CLG / CLG HT

FLR / BASE / WALL

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 GUB/ 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
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:

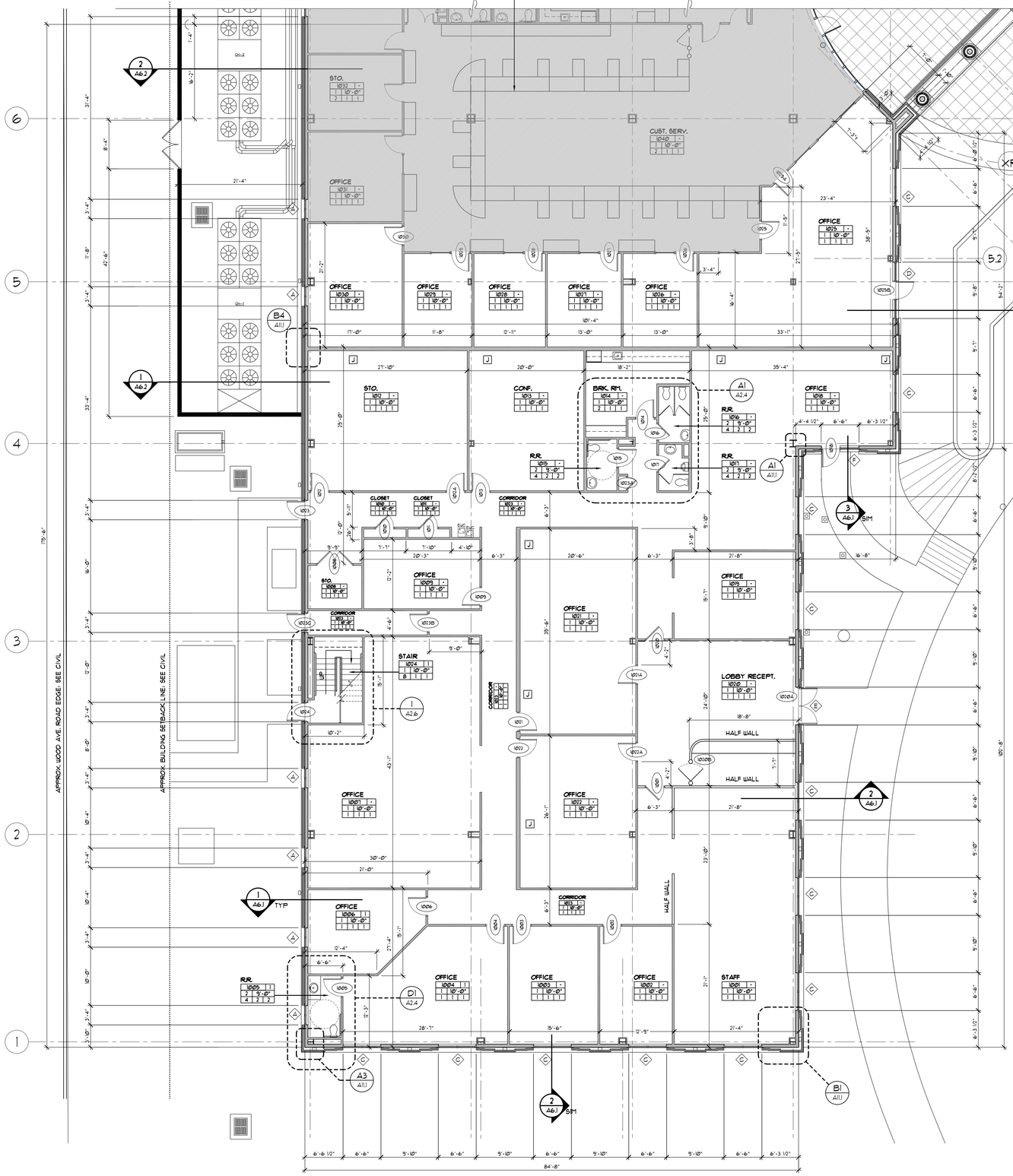
FIRST FLOOR ZONE B FLOOR PLAN

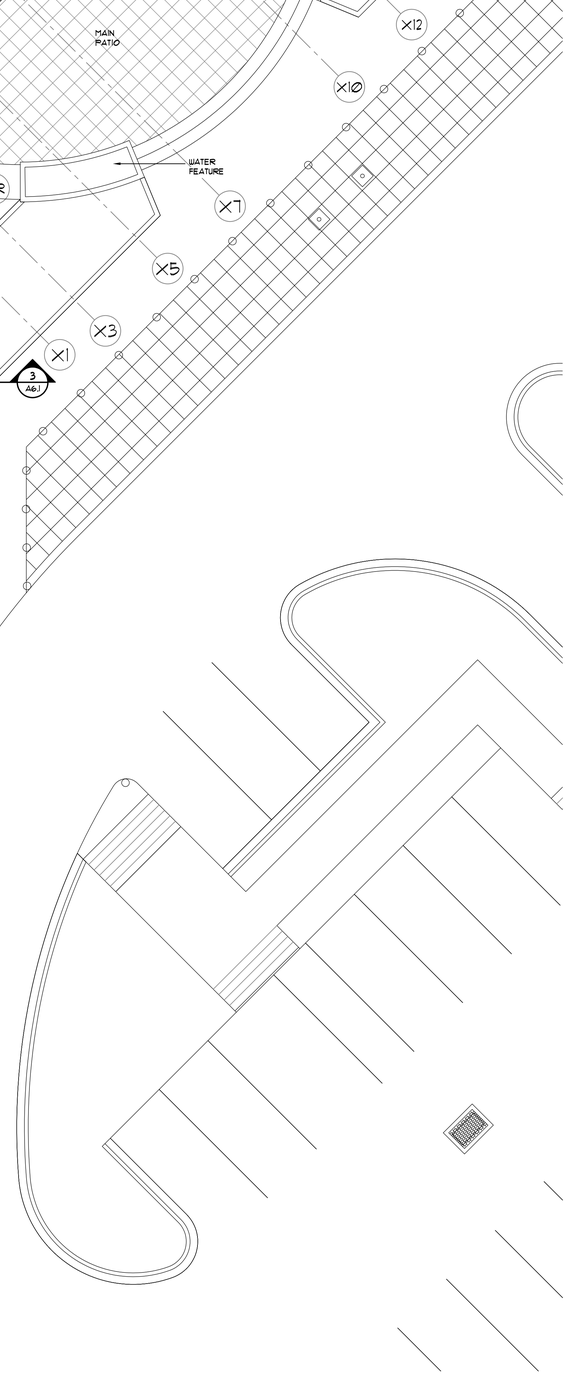
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SEE SHEET A1.1A FOR CONT. OF NOTES AND DIMENSIONS

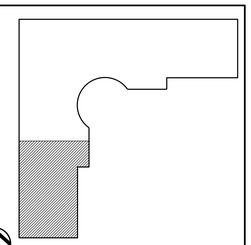




NORTH

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
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 GMS PARTITIONS THIS SPACE.
3. 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
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

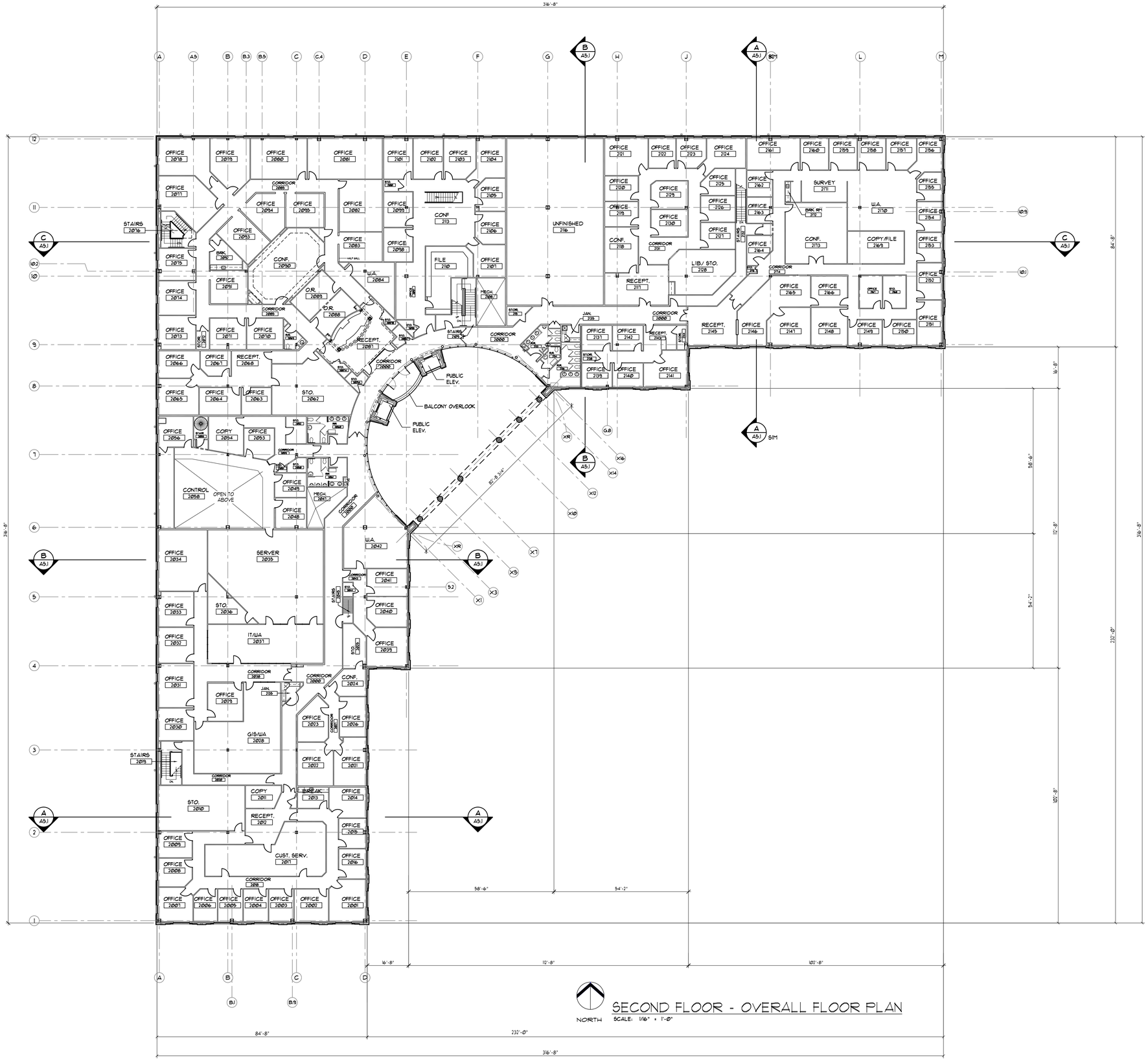
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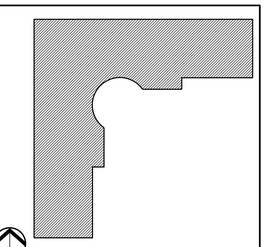
FIRST FLOOR ZONE C FLOOR PLAN

SHEET NUMBER:

A1.1C

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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 GUB/ 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	
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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

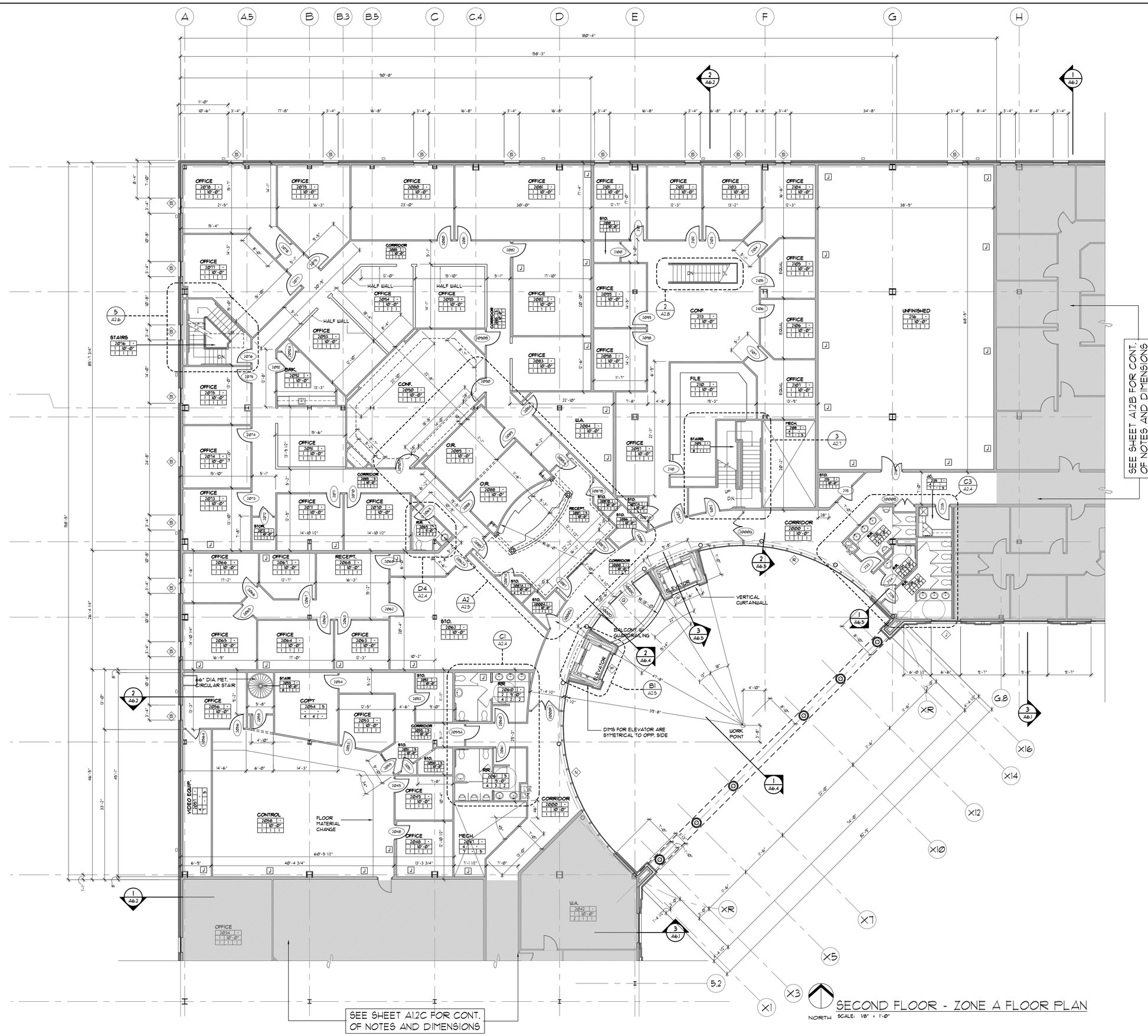
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SECOND FLOOR OVERALL FLOOR PLAN

SHEET NUMBER:

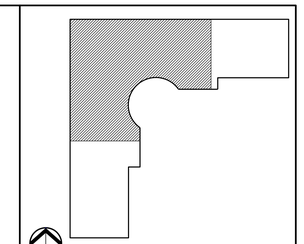
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SECOND FLOOR - ZONE A FLOOR PLAN

NORTH 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. 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 GUBS/ 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
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:
SECOND FLOOR ZONE A FLOOR PLAN

SHEET NUMBER:
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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

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 GUBS/ 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	·	·	03-28-07
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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PHONE: (850) 236-9832
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Commission Number: 06318

CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

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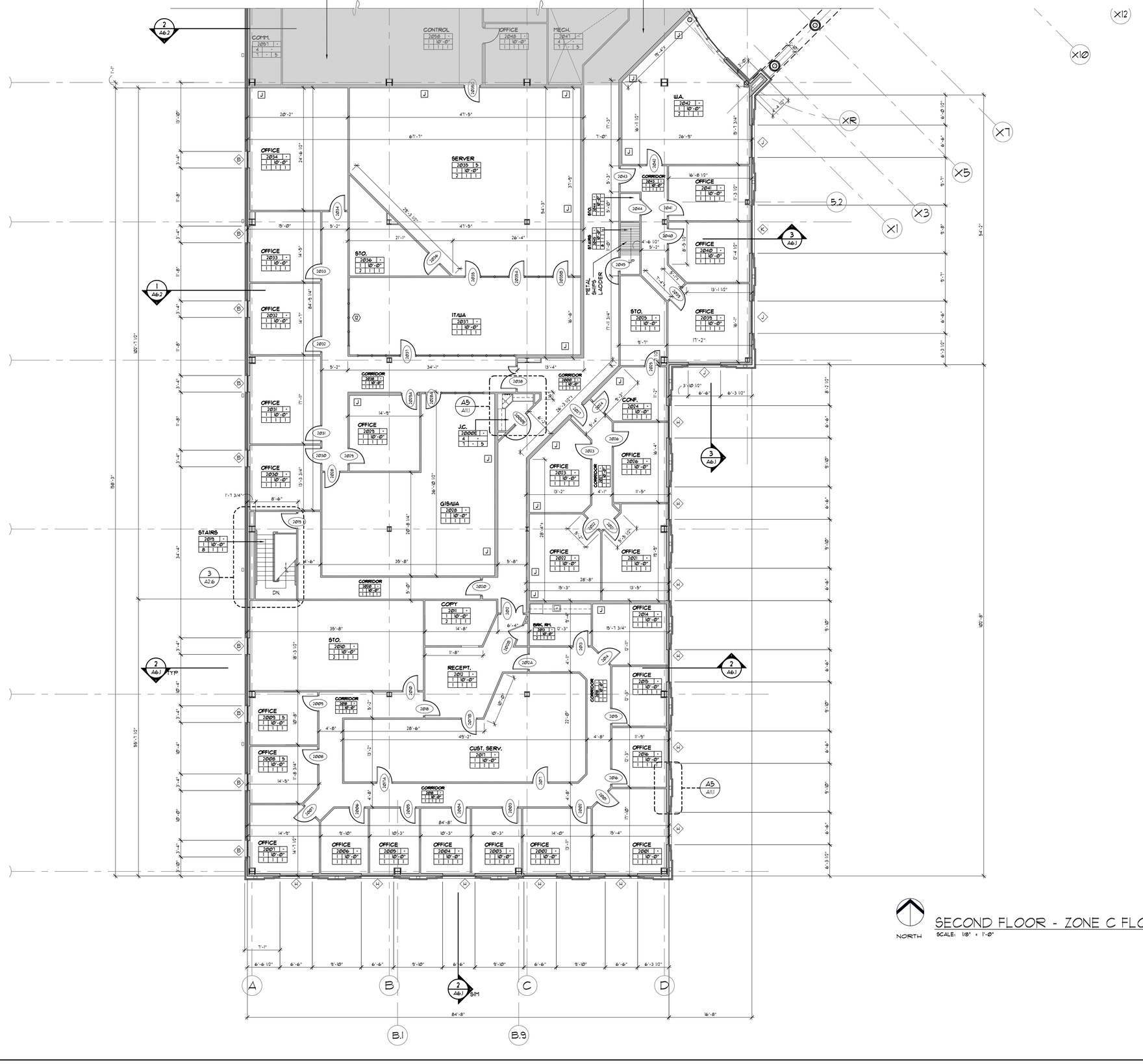
SECOND FLOOR ZONE B FLOOR PLAN

SHEET NUMBER:

A1.2B

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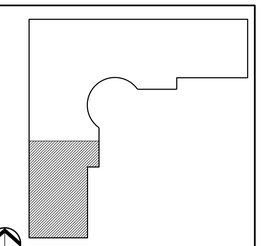
SEE SHEET A1.2A FOR CONT. OF NOTES AND DIMENSIONS



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. TROWLED EPOXY RESIN FLOORING
5. SEALED CONCRETE
6. GRANITE TILE
7. CONCRETE
8. RUBBER STAIR TREADS & RISERS

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

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 GUBS/ 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	·	·	03-20-07
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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CONSULTANTS:

PROJECT:

BAY COUNTY ADMINISTRATION BUILDING

PANAMA CITY, FLORIDA

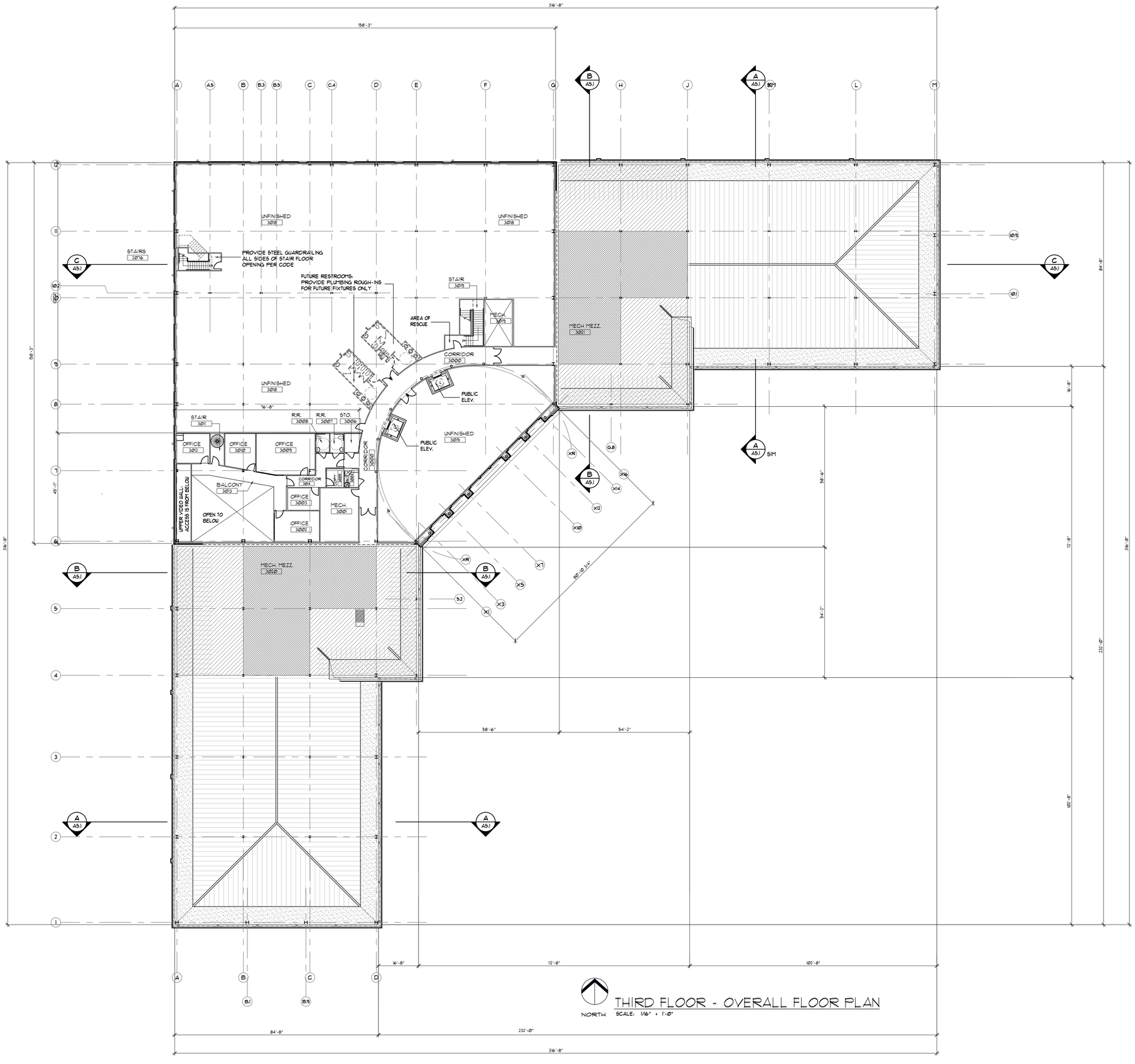
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SECOND FLOOR ZONE C FLOOR PLAN

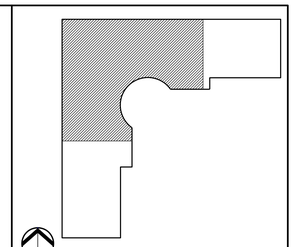
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NORTH **THIRD FLOOR - OVERALL FLOOR PLAN**
SCALE: 1/16" = 1'-0"



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
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 GUB/ 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
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:
THIRD FLOOR OVERALL FLOOR PLAN

SHEET NUMBER:
A1.3

\\fltserver\job\06318 (BAY COUNTY ADMIN)\BAY COUNTY ADMINISTRATION BUILDING\Sheets\A1 - FLOOR PLANS\A1.3 THIRD FLOOR OVERALL FLOOR PLAN.dwg, 3/20/2008 11:06:10 AM, cjackson