Frigates - A New Restaurant
400 US Highway #1, North Palm Beach, Florida

GENERAL NOTES:
ALL WORK MUST COMPLY WITH F.B.C. 2007 WITH 2009 AMENDMENTS,
N.F.P.A., ASCE, ANSI, AND ALL STATE AND LOCAL CODES.

CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS.

CONTRACTOR AND SUB-CONTRACTORS SHALL COMPLETELY FAMILIARIZE THEMSELVES WITH SITE CONDITIONS BEFORE BIDDING.

ALL MATERIAL SHALL BE NEW AND SHALL HAVE A 1 YEAR GUARANTEE.

GENERAL CONTRACTOR SHALL VERIFY ALL WORK UNDER THIS PERMIT WITH WORK UNDER SEPERATE PERMITS, AND REPORT ALL DIFFERENCES TO THE ARCHITECT.

ARCHITECT SHALL HAVE FINAL APPROVAL ON ALL WORK AND MATERIALS.

THESE DRAWINGS AND IDEAS ARE COPYWRITTEN AND SOLE PROPOERTY OF THE ARCHITECT. NO USE OF THESE DRAWINGS IN ANY WAY SHALL OCCUR WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

HAZZARD NOTES:
OWNER SHALL VERIFY ANY HAZZARDOUS WASTE ON SITE.

LEAD IS PROHIBITED ON SITE.

ASBESTOS IS PROHIBITED ON SITE.

MERCURY IS PROHIBITED ON SITE.

100% VENTILATION REQUIRED WHEN USING ANY CONSTRUCTION CHEMICAL.

FORMALDEHYDE IS PROHIBITED ON SITE.

ALL WATER LINES TO BE COPPER, DO NOT JOIN WITH LEAD SOLDER.

FRAMING NOTES
FRAMING SHALL BE DONE IN A WORKMAN LIKE MANNER BY SKILLED LABOR.

ALL NAILING SHALL CONFORM TO THE BUILDING CODE NAILING SCHEDULE.

ALL STRAPS, METAL ANCHORS, AND BRACKETS ARE TO BE GALVANIZED.

PROVIDE DOUBLE STUDS AT EACH SIDE OF DOOR OPENING.

rOOF SHEATHING TO BE 5/8" CDX PLYWOOD UNLESS NOTED. STAPLES ARE NOT PERMITTED.

ALL INTERIOR AND EXTERIOR TRIM BOARDS TO HAVE TIGHT JOINTS AND WELL SANDED.

PRESSURE TREAT ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE AS PER "AMERICAN WOOD PRESERVERS BUREAU".

ALL LUMBER USED STRUCTURALLY SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

STRESS-GRADE LUMBER SHALL BE DOUGLAS FIR #1 OR BETTER AND CONFORM TO THE "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND IT'S FASTENERS" LATEST ADDITION WITH 1200 PSI MINIUM FIBER STRESS IN BENDING AND 12% OR LESS MOISTURE CONTENET, UNLESS NOTED.

CONCRETE NOTES:
ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI-301-71)

ALL POURED CONCRETE TO BE 3,000 PSI (IN 28 DAYS) PUMP MIX UNLESS NOTED.

FIBER MESH SHALL BE 'NYCON' BRAND. THE INCORPORATION OF FIBERS SHALL BE DOCUMENTED ON THE DELIVERY TICKET FROM THE READY MIX PRODUCER.

FIBERS TO BE ADDED TO THE CONCRETE IN STRICT ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. FIBERS SHALL BE 3/4" IN LENGHT AND SHALL BE ADDED AT THE RATE OF 1 LB/CUBIC YARD OF CONCRETE.

CONCRETE TO BE MACHINE MIXED WITH A MAXIUM OF 6 1/2 GALLONS OF POTABLE WATER PER 94-LB SACK OF CEMENT FOR A MAXIUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE WITH MAXIUM 6" SLUMP.

MASONRY NOTES:
CONCRETE MASONRY UNITS SHALL BE ASTM C90-70 GRADE 'A' AND STORED IN A DRY PLACE UNDER COVER. FACE SHELL THICKNESS SHALL BE NO LESS THAN 1 1/4" THICK WITH A 1" MIN WEB THICKNESS.

MASONRY SHALL BE LAID IN FULL MORTAR BEDS.

PROVIDE OPENINGS REQUIRED BY OTHER TRADES AND VERIFY ALL OPENING SIZES WITH THEM.

DO NOT USE SQUARE END BLOCKS ABUTTING CONCRETE COLUMNS.

mORTAT SHALL CONFORM TO ASTM C-270 TYPE 'M'.

METAL NOTES:
ALL STRUCTURAL STEEL TO BE DOMESTIC ASTM A-36 OR AS NOTED.

SHOP COAT ALL STRUCTURAL STEEL WITH A NON-LEADED RED PRIMER.

ALL METAL STRAPS AND ANCHORS ARE TO BE GALVANIZED.

ALL INTERIOR NAILS TO BE GALVANIZED UNLESS NOTED.
ALL EXTERIOR NAILS TO BE STAINLESS STEEL UNLESS NOTED.

REINFORCING STEEL TO BE NEW BILLET STEEL CONFORMING TO THE LATEST ASTM A-615 GRADE 60 SPECIFICATIONS FABRICATED IN ACCORDANCE WITH ACI BUILDING CODE AND MANUAL OF STANDARD PRACTICE.

MINIUM CONCRETE OVER REINFORCING STEEL:
FOOTINGS = 3"
COLUMNS, BEAMS, AND SLABS = 1 1/2"

ALL VERTICL BARS SHALL HAVE A MINIUM LAP OF 30 DIAMETERS.

FINISH NOTES:
PAINTED ITEMS ARE TO HAVE 1 COAT OF PRIMER AND 2 COATS OF FINISH PAINT.
PAINT IS TO BE 'BENJAMIN MOORE' OR APPROVED EQUAL FROM ARCHIECT.

ALL GYPSUM BOARDS ARE TO BE PRODUCED IN THE USA.

ALL GYPSUM BOARDS TO HAVE 'US GYPSUM' "FIRST COAT" OR EQUAL BEFORE PAINTING.

ALL CERAMIC TILE TO BE BACKED BY DURO-ROCK.

ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURES INSTRUCTIONS AND SPECS.

Drawing List		
Sheet Number	Sheet Name	Current Revision
A-0.0	Cover	
A-1.0	Master Site Plan	
A-1.1	Isometrics	
A-1.2	Photometrics	
A-2.0	Elevations	
A-3.0	Floor Plan	
A-3.1	Roof Plan	
A-3.2	Reflected Ceiling Plan	
A-4.0	Kitchen & Tiki Plan	
A-4.1	Toilet Room	
A-5.0	Building Section	
A-5.1	Kitchen Section	
A-6.0	Front Wall Section	
A-6.1	Rear Wall Section	
A-6.2	East Wall Section	
A-6.3	Tiki Bar Section & Wall Schedule	
AL-1.0	Architectural Lighting Plan	
ID-1.0	Furniture Isometric	
ID-2.0	Furniture plan	
L-1.0	Rear Decking	
L-2.0	Tiki Deck Plan	
S-1.0	Foundation	
S-1.1	Cap Beam Plan	
S-1.2	Roof Framing Plan	

TYPE 'II A' CONSTRUCTION
CATAGORY 1 BUILDING (ASCE 7-98 TABLE 1.1)
140 MPH WIND LOAD & 3 SEC GUST

FIRE SPRINKLED PROTECTED

EXPOSURE 'B'
IMPORTANCE FACTOR = 1.0
ENCLOSED BUILDING

MIN WIND DESIGN LOAD - ASCE 7-05 (& REV 7-10) TABLE 4.1
DESIGN WALL PRESSURE END ZONE = 60 PSF
DESIGN WALL PRESSURE INTERIOR ZONE = 50 PSF

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

Cover

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-0.0

Scale

R.B. BRENNAN SURVEYING L.B. # 6813

2080 WEST INDIANTOWN ROAD, SUITE 400
JUPITER, FLORIDA 33458
Phone (561) 776-0505
Fax (561) 776-0506
BRENNANCOMPANIES@ATT.NET

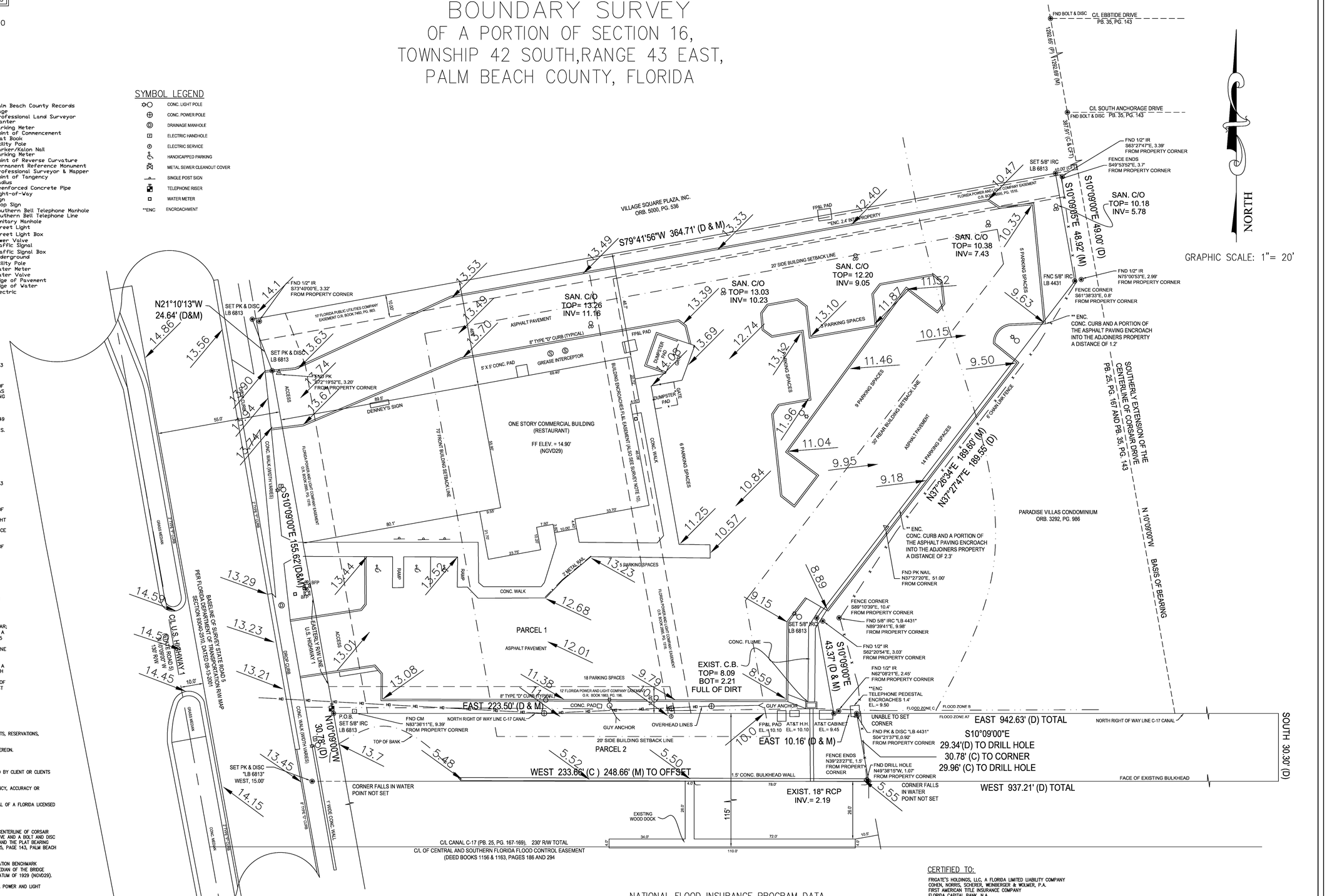
BOUNDARY SURVEY
OF A PORTION OF SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA

LEGEND:

A	Arc		
A/C	Air Conditioner	P.B.C.R.	Palm Beach County Records
BFP	Back Flow Preventer	PG	Page
BM	Bench Mark	PLS	Professional Land Surveyor
(C)	Calculated Data	PL	Planter
Ch	Chord	PM	Parking Meter
(CFT)	Calculated from Field Traverse	POC	Point of Commencement
CLF	Chain Link Fence	PB	Plat Book
CLP	Concrete Light Pole	UP	Utility Pole
C/L	Center Line	PK	Parker/Kalon Nail
CM	Concrete Monument	PM	Parking Meter
C/O	Clean-Out	PRC	Point of Reverse Curvature
Conc	Concrete	PRM	Permanent Reference Monument
D	Central angle of Curve	PSM	Professional Surveyor & Mapper
(D)	Data Per Record Deed	PT	Point of Tangency
DMH	Drainage Manhole	R	Radius
EL	Elevation	RCP	Reenforced Concrete Pipe
FND	Found	R/W	Right-of-Way
FF	Finish Floor	S	Sign
FH	Fire Hydrant	SS	Stop Sign
FOB	Fiber Optic Box	SB&T MH	Southern Bell Telephone Manhole
FP&L	Florida Power & Light	SBT LINE	Southern Bell Telephone Line
GC	Gas Cap	SMH	Sanitary Manhole
GV	Gas Valve	SL	Street Light
H.H.	Hand Hole	SLB	Street Light Box
IP	Iron Pipe	SV	Sewer Valve
IR	Iron Rod	TS	Traffic Signal
IRC	Iron Rod and Cap	TSB	Traffic Signal Box
LB	Licensed Business	U/G	Underground
LP	Light Pole	UP	Utility Pole
M	Measured	WM	Water Meter
MH	Man Hole	WV	Water Valve
±	Plus or Minus	EOP	Edge of Pavement
NGVD	National Geodetic Vertical Datum	EOW	Edge of Water
ORB	Official Records Book	ELEC.	Electric
O/H	Overhead		
PC	Point of Curvature		
POB	Point of Beginning		
PCC	Point of Compound Curvature		
PCP	Permanent Control Point		

SYMBOL LEGEND

- CONC. LIGHT POLE
- CONC. POWER POLE
- DRAINAGE MANHOLE
- ELECTRIC HANDHOLE
- ELECTRIC SERVICE
- HANDICAPPED PARKING
- METAL SEWER CLEANOUT COVER
- SINGLE POST SIGN
- TELEPHONE RISER
- WATER METER
- **ENC ENCROACHMENT



DESCRIPTION

PARCEL 1:
A PARCEL OF LAND LYING IN SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, VILLAGE OF NORTH PALM BEACH, PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 WITH THE NORTH RIGHT OF WAY LINE OF CANAL C-17 AS NOW ESTABLISHED; THENCE ON AN ASSUMED BEARING OF DUE EAST ALONG THE SAID NORTH RIGHT OF WAY LINE OF CANAL C-17, A DISTANCE OF 223.50 FEET; THENCE NORTH 10 DEGREES 09'00" WEST, A DISTANCE OF 43.37 FEET; THENCE NORTH 37 DEGREES 27'47" EAST, A DISTANCE OF 189.55 FEET; THENCE NORTH 10 DEGREES 09'00" WEST, A DISTANCE OF 49 FEET; THENCE SOUTH 79 DEGREES 41'56" WEST, A DISTANCE OF 364.71 FEET TO A POINT IN THE AFORESAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 AS NOW ESTABLISHED; THENCE SOUTH 21 DEGREES 10'13" EAST, A DISTANCE OF 24.64 FEET; THENCE SOUTH 10 DEGREES 09'00" EAST, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 155.62 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

PARCEL 2:

A PARCEL OF LAND LYING IN SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, VILLAGE OF NORTH PALM BEACH, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE WEST 233.66 FEET OF THE FOLLOWING DESCRIBED PROPERTY:
BEGINNING AT THE INTERSECTION OF THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 WITH THE NORTH RIGHT OF WAY LINE OF CANAL C-17; THENCE ON AN ASSUMED BEARING OF DUE EAST, ALONG SAID NORTH RIGHT OF WAY LINE, A DISTANCE OF 942.63 FEET; THENCE DUE SOUTH, A DISTANCE OF 30.30 FEET TO THE FACE OF AN EXISTING BULKHEAD; THENCE DUE WEST, ALONG THE FACE OF SAID BULKHEAD, A DISTANCE OF 937.21 FEET TO THE SAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1, THENCE NORTH 10 DEGREES 09'00" WEST, ALONG SAID EASTERLY RIGHT OF WAY LINE, A DISTANCE OF 30.78 FEET TO THE POINT OF BEGINNING.

ALSO KNOWN AS:

A PORTION OF SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE NORTHERLY RIGHT OF WAY LINE OF CANAL C-17 WITH THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 1 (130 FOOT RIGHT-OF-WAY); THENCE NORTH 10 DEGREES 09'00" WEST ALONG THE SAID EASTERLY RIGHT OF WAY LINE A DISTANCE OF 155.62 FEET TO A NAIL; THENCE NORTH 21 DEGREES 10'13" WEST ALONG SAID RIGHT OF WAY LINE A DISTANCE OF 24.64 FEET TO A REBAR; THENCE NORTH 79 DEGREES 41'56" EAST, A DISTANCE OF 364.71 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 49.00 FEET TO A REBAR; THENCE SOUTH 37 DEGREES 27 47" WEST, A DISTANCE OF 189.55 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 43.37 FEET TO A REBAR LYING ON SAID NORTHERLY RIGHT OF WAY LINE OF CANAL C-17; THENCE NORTH 90 DEGREES 00'00" EAST ALONG SAID NORTHERLY RIGHT OF WAY LINE A DISTANCE OF 10.16 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 29.34 FEET TO A DRILL HOLE IN THE BULKHEAD WALL OF SAID CANAL C-17; THENCE NORTH 89 DEGREES 56'06" WEST ALONG THE FACE OF SAID BULKHEAD WALL A DISTANCE OF 233.66 FEET TO A REBAR LYING ON SAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY ONE, THENCE NORTH 10 DEGREES 09'00" WEST A DISTANCE OF 29.07 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.527 ACRES MORE OR LESS.

SURVEYORS NOTES

1) LANDS SHOWN HEREON HAVE NOT BEEN ABSTRACTED BY THIS OFFICE FOR EASEMENTS, RESERVATIONS, OR RIGHTS OF WAY OF RECORD.

2) SUBSURFACE IMPROVEMENTS OF ENCROACHMENTS WERE NOT LOCATED OR SHOWN HEREON.

3) ONLY IMPROVEMENTS LOCATED ARE THOSE SHOWN HEREON.

4) THE SURVEY OF PROPERTY SHOWN IS IN ACCORDANCE WITH DESCRIPTION FURNISHED BY CLIENT OR CLIENTS REPRESENTATIVE.

5) NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THIS OFFICE FOR CURRENCY, ACCURACY OR OMISSIONS OF DESCRIPTION FURNISHED.

6) THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

7) ALL DIMENSIONS SHOWN HEREON ARE PER DEED UNLESS OTHERWISE NOTED.

8) BEARINGS SHOWN HEREON ARE BASED ON A BEARING OF N10°09'00"W ALONG THE CENTERLINE OF CORSAIR BETWEEN A FOUND BOLT AND DISC AT THE INTERSECTION OF SOUTH ANCORAGE DRIVE AND A BOLT AND DISC AT THE INTERSECTION OF EBBTIDE DRIVE, AND IS RELATIVE TO THE DEED BEARING AND THE PLAT BEARING OF PLAT NO. 2 PALM BEACH LAKE WORTH ESTATES AS RECORDED IN PLAT BOOK 35, PAGE 143, PALM BEACH COUNTY RECORDS.

9) ELEVATIONS SHOWN HEREON ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK "QA15", ELEVATION = 14.584', LOCATED ON U.S. HIGHWAY 1 IN THE CONCRETE MEDIAN OF THE BRIDGE OVER THE C-17 CANAL AND IS RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

10) THE EASTERLY PORTION OF THE EXISTING BUILDING ENCROACHES INTO THE FLORIDA POWER AND LIGHT EASEMENT RECORDED ON OFFICIAL RECORDS BOOK 2695, PAGE 1516.

11) LAST DATE OF FIELD WORK NOVERBER 11, 2008.

12) TOTAL AREA OF PROPERTY AS SURVEYED (PARCELS 1 AND 2) CONTAINS 1.535 ACRES.

NATIONAL FLOOD INSURANCE PROGRAM DATA

COMMUNITY PANEL No.	120217 0001 D
FIRM DATE:	06/02/92
FLOOD ZONES:	C, B, AND A7 (BASE FLOOD ELEVATION 7 FEET NGVD29)

CERTIFIED TO:

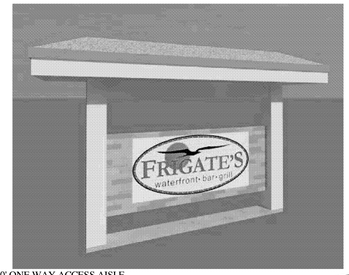
FRIGATE'S HOLDINGS, LLC, A FLORIDA LIMITED LIABILITY COMPANY
COHEN, NORRIS, SCHERER, WEINBERGER & WOLMER, P.A.
FIRST AMERICAN TITLE INSURANCE COMPANY
FLORIDA CAPITAL BANK, N.A.

I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND MEETS THE MINIMUM TECHNICAL STANDARDS ADOPTED BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO SECTION 472.027 FLORIDA STATUTES AND FLORIDA ADMINISTRATIVE CODE CHAPTER 61G17-6 AND IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TERRY L. MACDEVITT, P.S.M. (FOR THE FIRM) DATE OF SIGNATURE
FLORIDA CERTIFICATION NO. LS 4557
R.B. BRENNAN LAND SURVEYING, INC.
CERTIFICATE OF AUTHORIZATION NO. LB 6813

SHEET 1 OF 1

REVISION	DATE	BY	CHK
ADD ADDITIONAL LEGAL DESC, TEXT EDITS	11/12/08	SG	SG
ADD DOCK INFO	10/29/09	MJM	MJM
ADD TOPO INFO	4/11/10	MJM	MJM



VILLAGE SQUARE PLAZA, INC. ORB. 5000, PG. 536

S79°41'56"W 364.71' (D & M)

N21°10'13"W 24.64' (D&M)

S10°09'00"E 155.62'(D&M)

S10°09'05"E 48.92' (M)

S10°09'00"E 49.00' (D)

N37°26'34"E 189.60' (M)

N37°27'47"E 189.55' (D)

S10°09'00"E 43.37' (D & M)

N10°09'00"W 30.78' (D)

EAST 942.63' (D) TOTAL

EAST 10.16' (D & M)

S10°09'00"E
29.34'(D) TO DRILL HOLE
30.78' (C) TO CORNER
29.96' (C) TO DRILL HOLE

WEST 233.66' (C) 248.66' (M) TO OFFSET

WEST 937.21' (D) TOTAL

PATIO TERRACE
719 PATRON S.F.

PARADISE VILLAS CONDOMINIUM
ORB. 3292, PG. 986

C/L U.S. HIGHWAY 1
(STATE ROAD 5)
N 10°09'00" W
130' R/W

BASELINE OF SURVEY STATE ROAD 5
PER FLORIDA DEPARTMENT OF TRANSPORTATION R/W MAP
SECTION 93040-2510, DATED 06-13-2001

C/L CANAL C-17 (PB. 25, PG. 167-169), 230' R/W TOTAL
C/L OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL EASEMENT
(DEED BOOKS 1156 & 1163, PAGES 186 AND 294

1 Site
1/16" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

Master Site Plan

Project number	CB-01
Date	25 May 2010
Drawn by	ERF
Checked by	ERF

A-1.0

Scale 1/16" = 1'-0"

1 Front Isometric

2 Rear Isometric

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No.	Description	Date

Frigates Holdings LLC

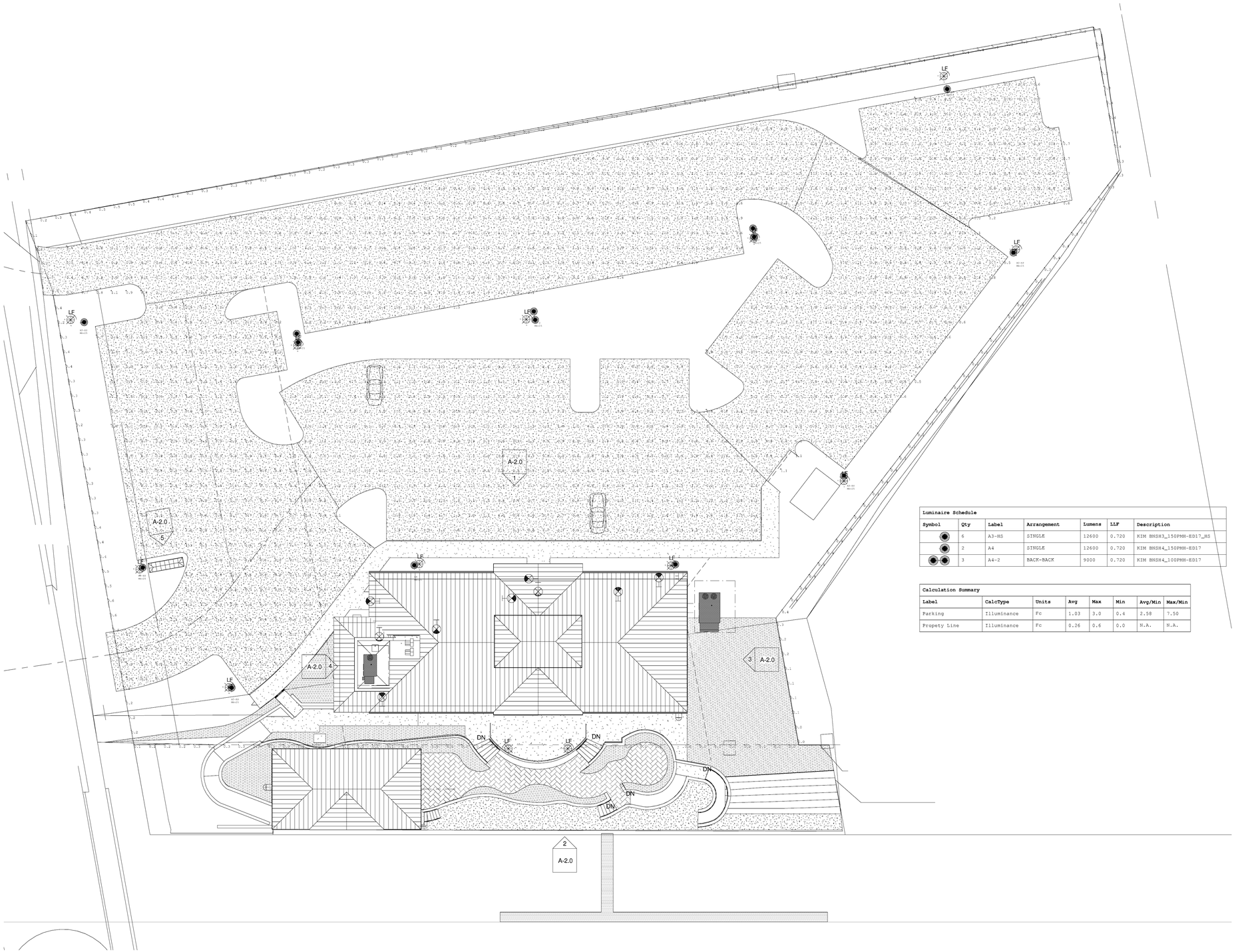
Frigates Restaurant

Isometrics

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-1.1

Scale



1 Photometrics
1/16" = 1'-0"

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	6	A3-HS	SINGLE	12600	0.720	KIM BNSH3_150PMH-ED17_HS
	2	A4	SINGLE	12600	0.720	KIM BNSH4_150PMH-ED17
	3	A4-2	BACK-BACK	9000	0.720	KIM BNSH4_100PMH-ED17

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking	Illuminance	Fc	1.03	3.0	0.4	2.58	7.50
Propety Line	Illuminance	Fc	0.26	0.6	0.0	N.A.	N.A.

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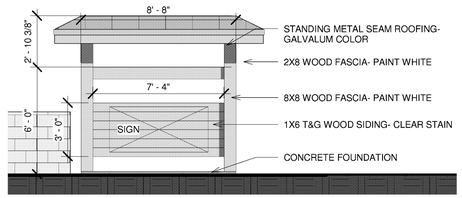
No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Photometrics

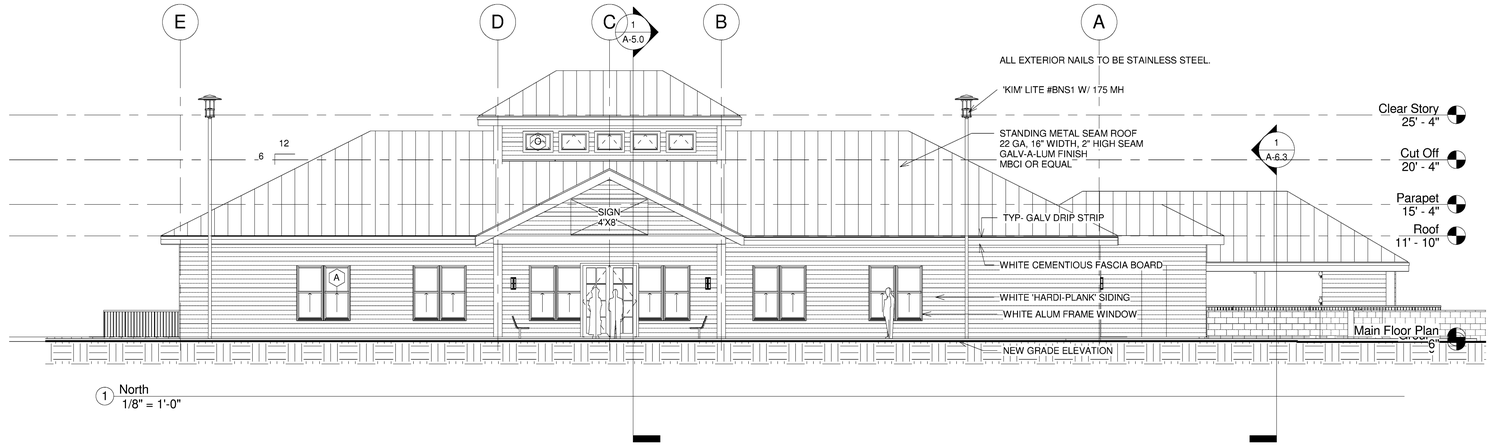
Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-1.2

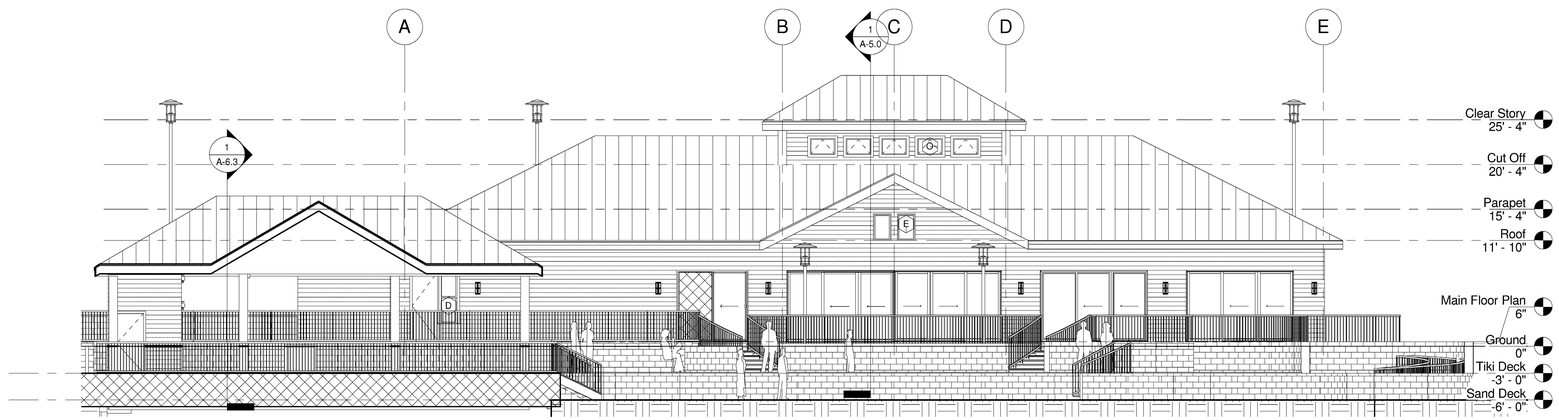
Scale 1/16" = 1'-0"



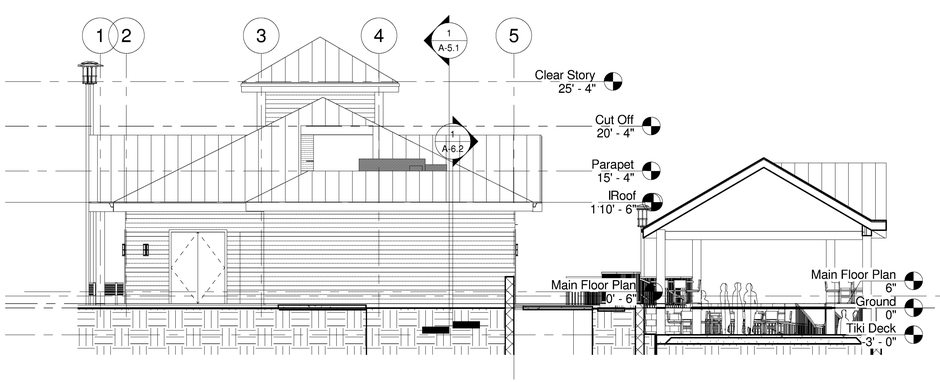
5 Sign
1/4" = 1'-0"



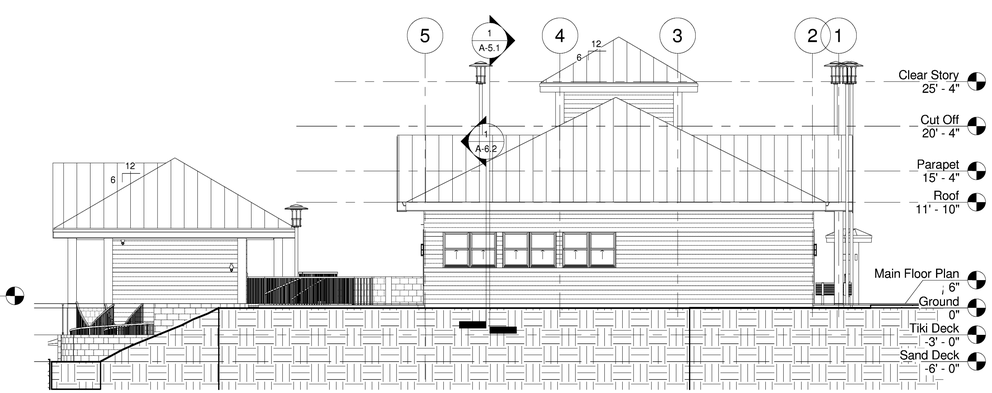
1 North
1/8" = 1'-0"



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



4 West
1/8" = 1'-0"



3 East
1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Elevations

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-2.0

Scale	As indicated

[redacted]

Window Schedule

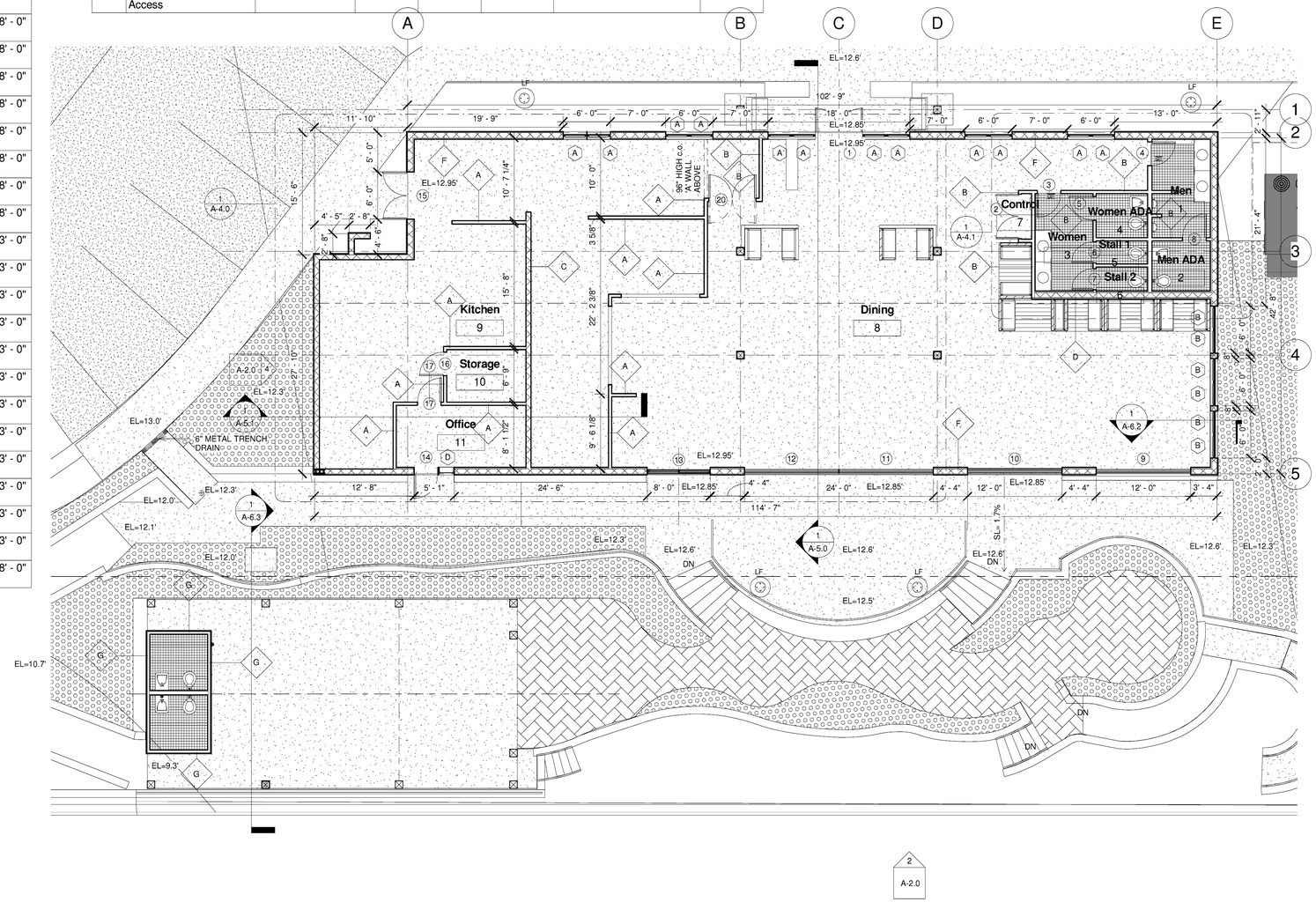
Mark	Type Mark	Width	Rough Width	Height	Rough Height	Manuf	Description	Constr Type	Operation	Head Height
1	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
2	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
3	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
4	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
5	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
6	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
7	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
8	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
9	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
10	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
11	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
12	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
13	A	3' - 0"	3' - 1 3/4"	6' - 2"	6' - 4"	PGT Industries	SH 700-26	Alum Frame	Single Hung	8' - 0"
14	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
15	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
16	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
17	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
18	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
19	B	3' - 0"	3' - 1 3/4"	4' - 0"	4' - 2 5/8"	PGT Industries	SH 700-24	Alum Frame	Single Hung	8' - 0"
22	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
23	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
24	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
25	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
26	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
27	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
28	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
29	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
30	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
31	O	3' - 0"		2' - 0"				Alum Frame	Awning	3' - 0"
32	E	2' - 0"	2' - 3 1/4"	3' - 0"	3' - 2 3/8"	PGT	SH 700-H33	Alum Frame	Single Hung	3' - 0"
33	E	2' - 0"	2' - 3 1/4"	3' - 0"	3' - 2 3/8"	PGT	SH 700-H33	Alum Frame	Single Hung	3' - 0"
34	D	2' - 0"	2' - 3 1/4"	6' - 0"	6' - 4"	PGT	SH 700-HB36	Alum Frame	Single Hung	8' - 0"

Door Schedule

Mark	Description	Manufacturer	Width	Height	Finish	Type Comments	Comments
1	French Door	By Owner	6' - 0"	8' - 0"	Stain Grade		ADA sill
2	Solid Flush		5' - 8"	6' - 8"	Stain Grade	Pre-Hung Wood Frame	
3	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
4	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
5	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
6	4 Panel Wood		2' - 8"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
7	4 Panel Wood		2' - 8"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
8	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
9	Sliding Glass Doors	PGT Industries	12' - 0"	8' - 0"	ESP White		
10	Sliding Glass Doors	PGT Industries	12' - 0"	8' - 0"	ESP White		
11	Sliding Glass Doors	PGT Industries	12' - 0"	8' - 0"	ESP White		
12	Sliding Glass Doors	PGT Industries	12' - 0"	8' - 0"	ESP White		
13	Sliding Glass Doors	PGT Industries	8' - 0"	8' - 0"	ESP White		
14	Metal Insulated Flush		3' - 0"	8' - 0"	Paint White	Pre-Hung Metal Frame	ADA sill
15	Metal Isulated Flush		6' - 0"	8' - 0"	Paint White	Pre-Hung Metal Frame	ADA sill
16	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
17	4 Panel		3' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
18	Metal Insulated 4 panel		3' - 0"	6' - 8"	Paint White	Pre-Hung Metal Frame	
19	Metal Insulated 4 panel		3' - 0"	6' - 8"	Paint White	Pre-Hung Metal Frame	
20	SC Wood Bi swing		6' - 0"	8' - 0"	Stain Grade	Pre-Hung Wood Frame	
21	Meat Insulated Attic Access		3' - 0"	3' - 0"	Paint White	Pre-Hung Metal Frame	

Room Schedule

Name	Area	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
Men	91 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Men ADA	47 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Women	91 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Women ADA	36 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Stall 1	19 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Stall 2	20 SF	Ceramic Tile	Cermaic Tile	Painted	Painted
Control	7 SF	Stained Conc	Painted	Painted	Painted
Dining	2481 SF	Stained Conc	Painted	Painted	Clear Sealant
Kitchen	1395 SF	Quarry Tile	Quarry Tile	Painted	Drop Accou
Storage	67 SF	Quarry Tile	Quarry Tile	Painted	Drop Accou
Office	130 SF	Quarry Tile	Quarry Tile	Painted	Drop Accou
Grand total: 11	4385 SF				



1 Main Floor Plan
1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Floor Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-3.0

Scale 1/8" = 1'-0"

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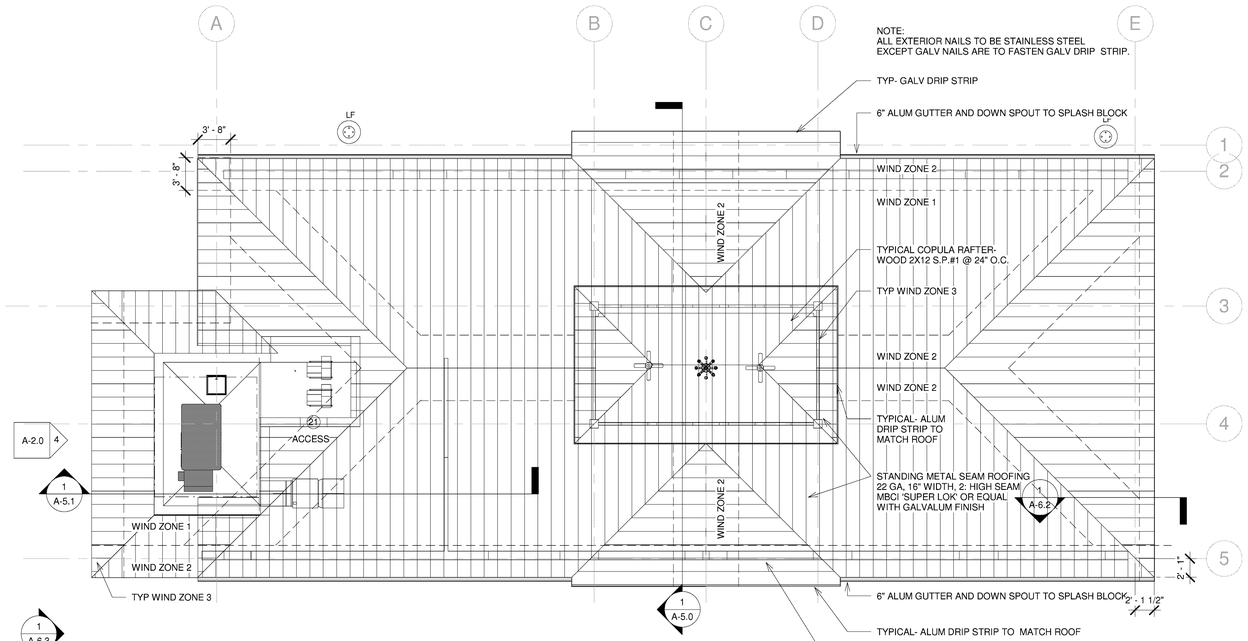
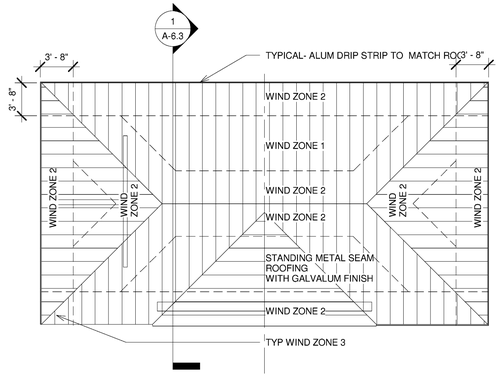


NOTE:
ALL EXTERIOR NAILS TO BE STAINLESS STEEL
EXCEPT GALV NAILS ARE TO FASTEN GALV DRIP STRIP.



WIND LOAD - WORST CASE

ROOF OVER HANG - 59.8 PSF X 2' X 2' = 240#
ROOF END ZONE - 23.9 PSF X 47' X 2' = 2,247 #
TOTAL = 2,487#
EACH END = 1,243.5# UPLIFT

2
A-2.0

1 Roof
1/8" = 1'-0"

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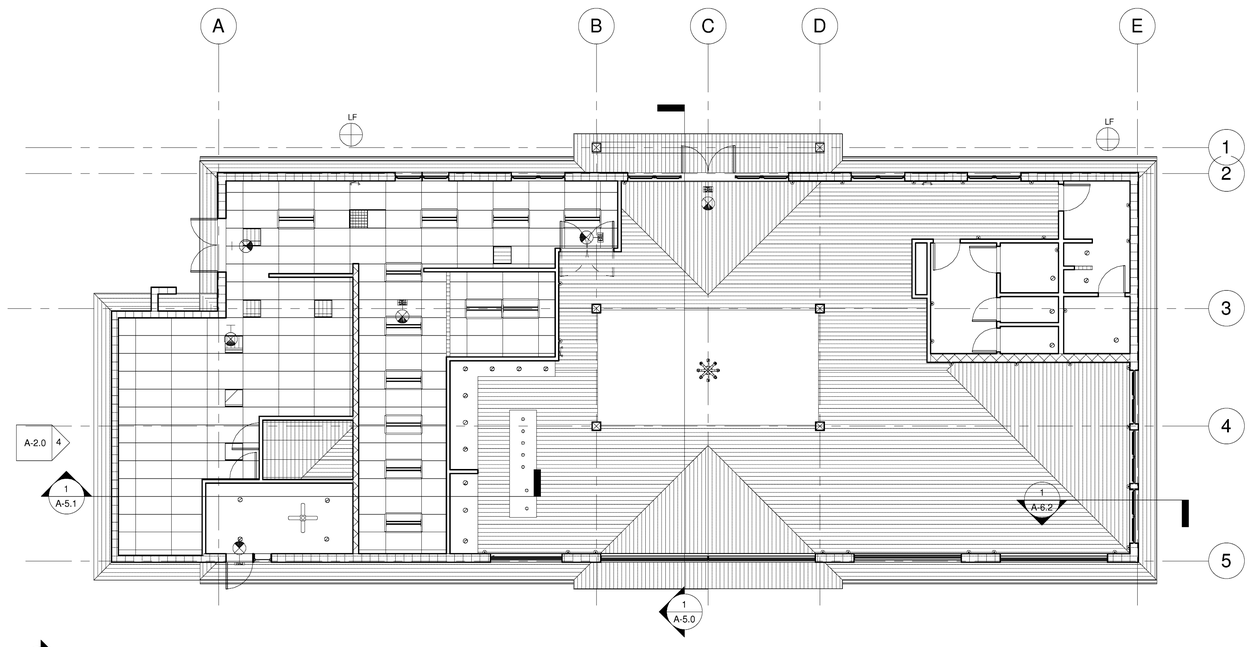
No.	Description	Date

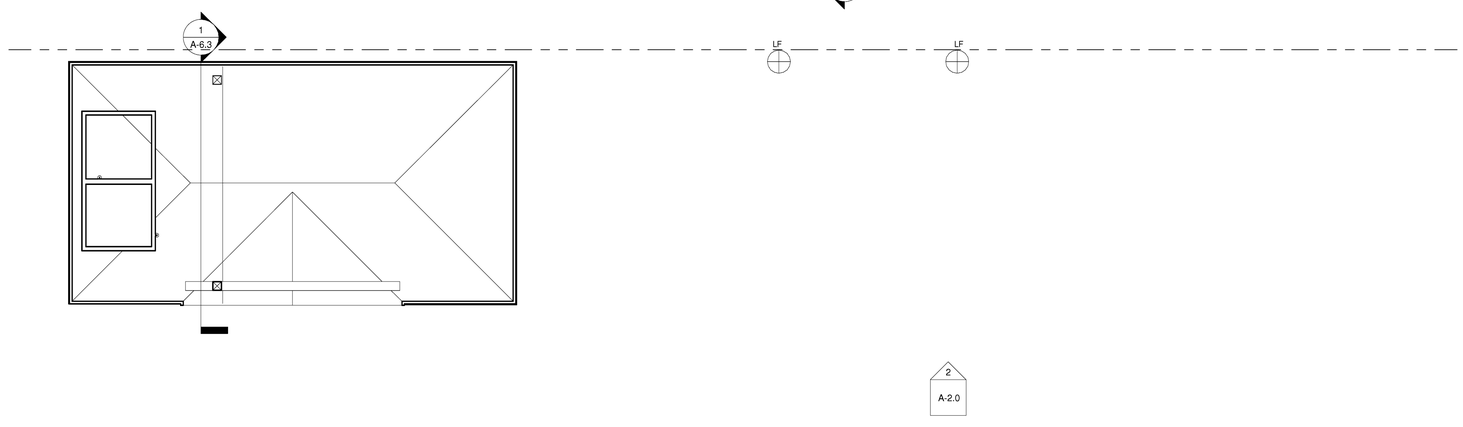
Frigates Holdings LLC
Frigates Restaurant
Roof Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-3.1

Scale 1/8" = 1'-0"





1 Main Floor Plan
1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

Reflected Ceiling Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-3.2

Scale	1/8" = 1'-0"

'A' WALL = 3 5/8" 20 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

'B' WALL = 3 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

'C' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
T.O.W.= 11'-4" A.F.F.

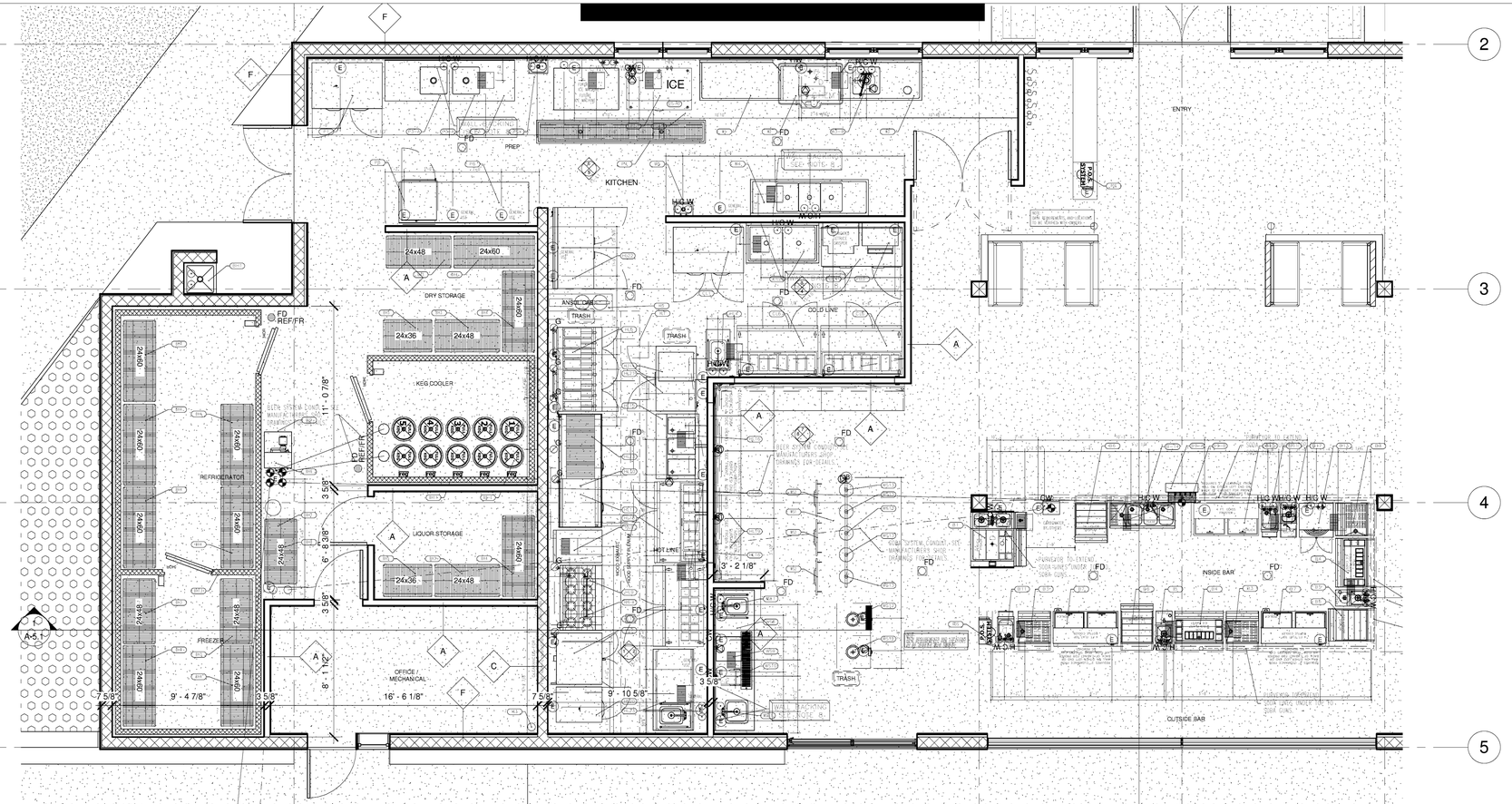
'D' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 2" METAL FURR @ 16" O.C. EACH SIDE
T.O.W.= 11'-4" A.F.F.

'E' WALL = 5 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

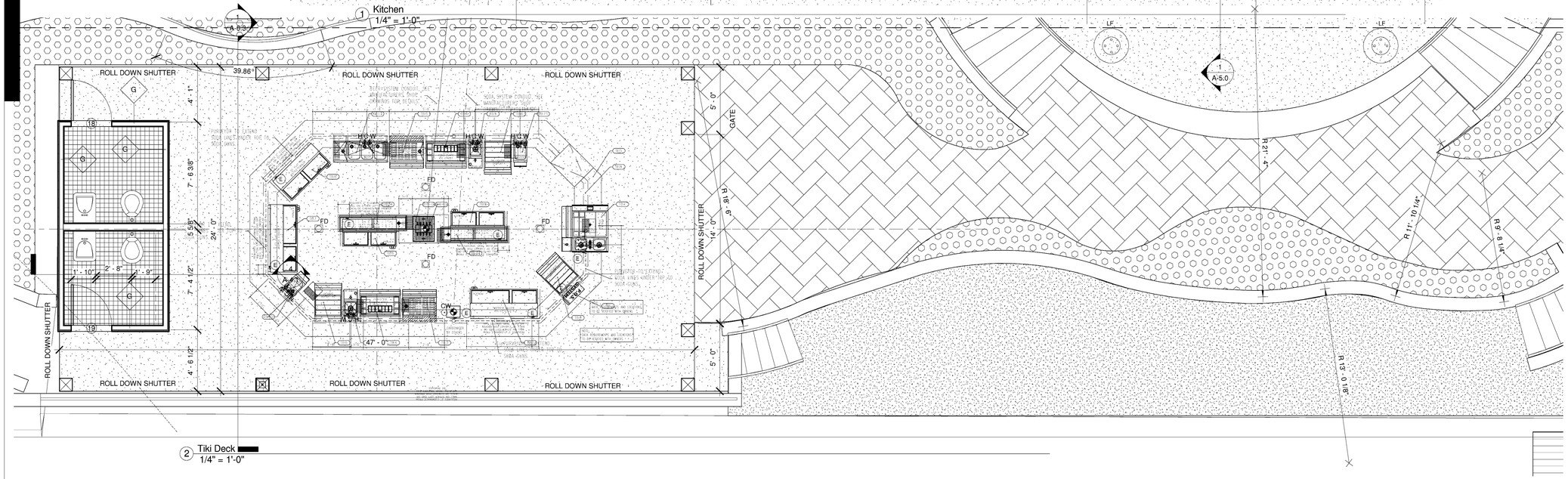
'F' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 1 5/8" METAL FURR @ 16" O.C. (INTERIOR)
T.O.W.= 11'-4" A.F.F.

'G' WALL = 2X4 P.T. WOOD STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS INTERIOR
5/8" CDX PLYWOOD AND HARDI-PLANKS EXTERIOR
2X4 P.T. WOOD SOLE FASTEN W/ 1/4"X5" TAPCONS @ 16" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

'H' WALL = SEA WALL AND CAP BY OTHERS IN SEPARATE PERMIT



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



2 Tiki Deck
1/4" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Kitchen & Tiki Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-4.0

Scale 1/4" = 1'-0"

'A' WALL = 3 5/8" 20 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

'B' WALL = 3 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

'C' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
T.O.W.= 11'-4" A.F.F.

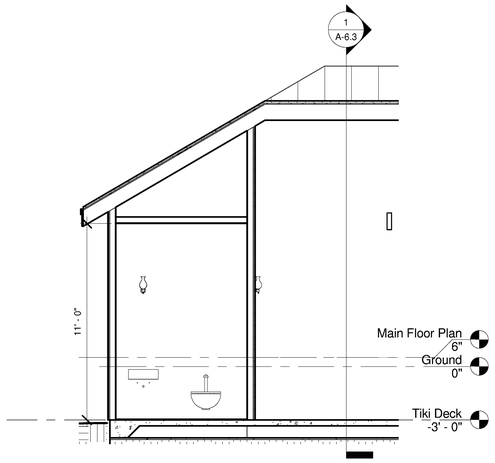
'D' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 2" METAL FURR @ 16" O.C. EACH SIDE
T.O.W.= 11'-4" A.F.F.

'E' WALL = 5 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

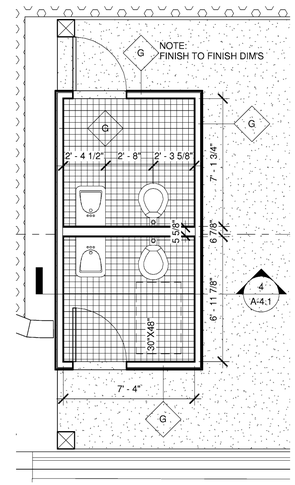
'F' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 1 5/8" METAL FURR @ 16" O.C. (INTERIOR)
T.O.W.= 11'-4" A.F.F.

'G' WALL = 2X4 P.T. WOOD STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS INTERIOR
5/8" CDX PLYWOOD AND HARDI-PLANKS EXTERIOR
2X4 P.T. WOOD SOLE FASTEN W/ 1/4"X5" TAPCONS @ 16" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

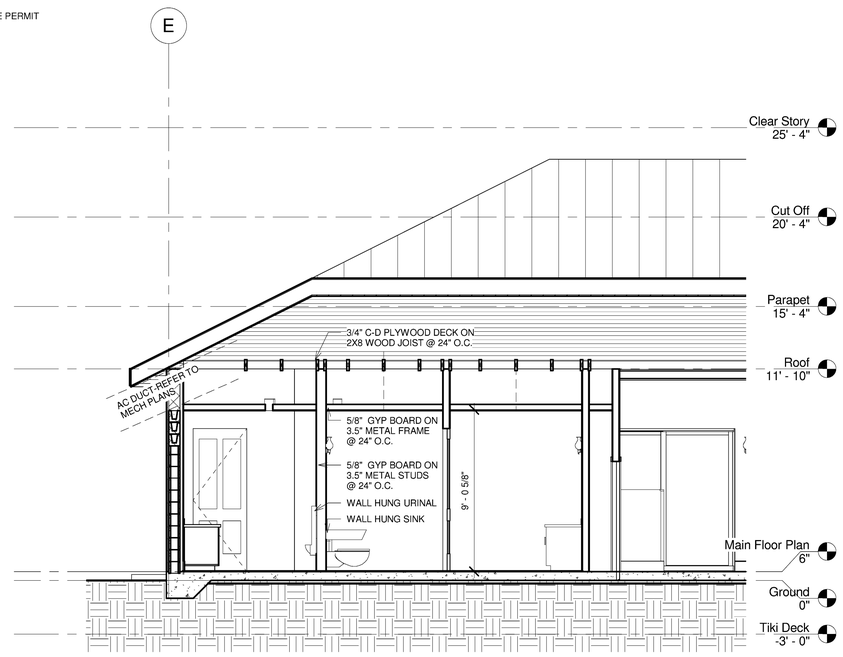
'H' WALL = SEA WALL AND CAP BY OTHERS IN SEPARATE PERMIT



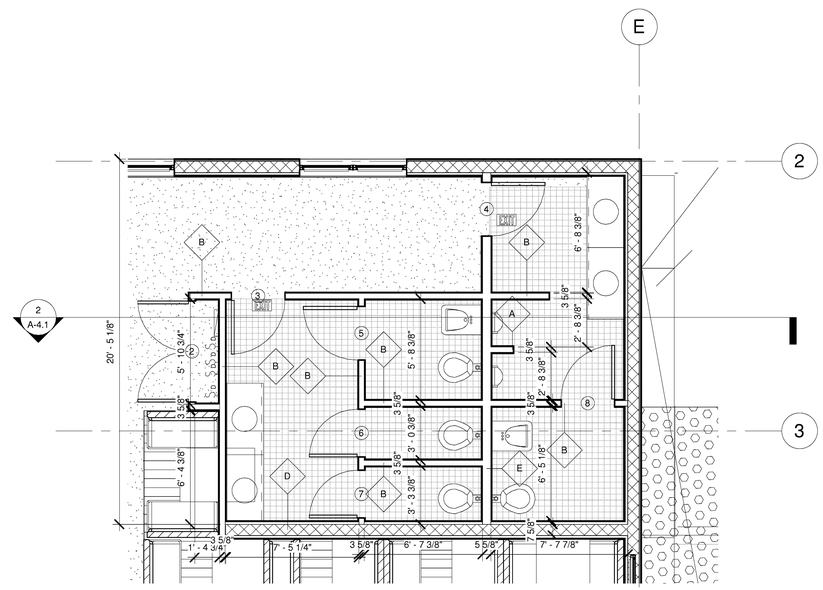
4 Tiki Toilet Rooms
1/4" = 1'-0"



3 Tiki Deck Toilet Rooms
1/4" = 1'-0"



2 Toilet Room Section
1/4" = 1'-0"



1 Toilet Rooms
1/4" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

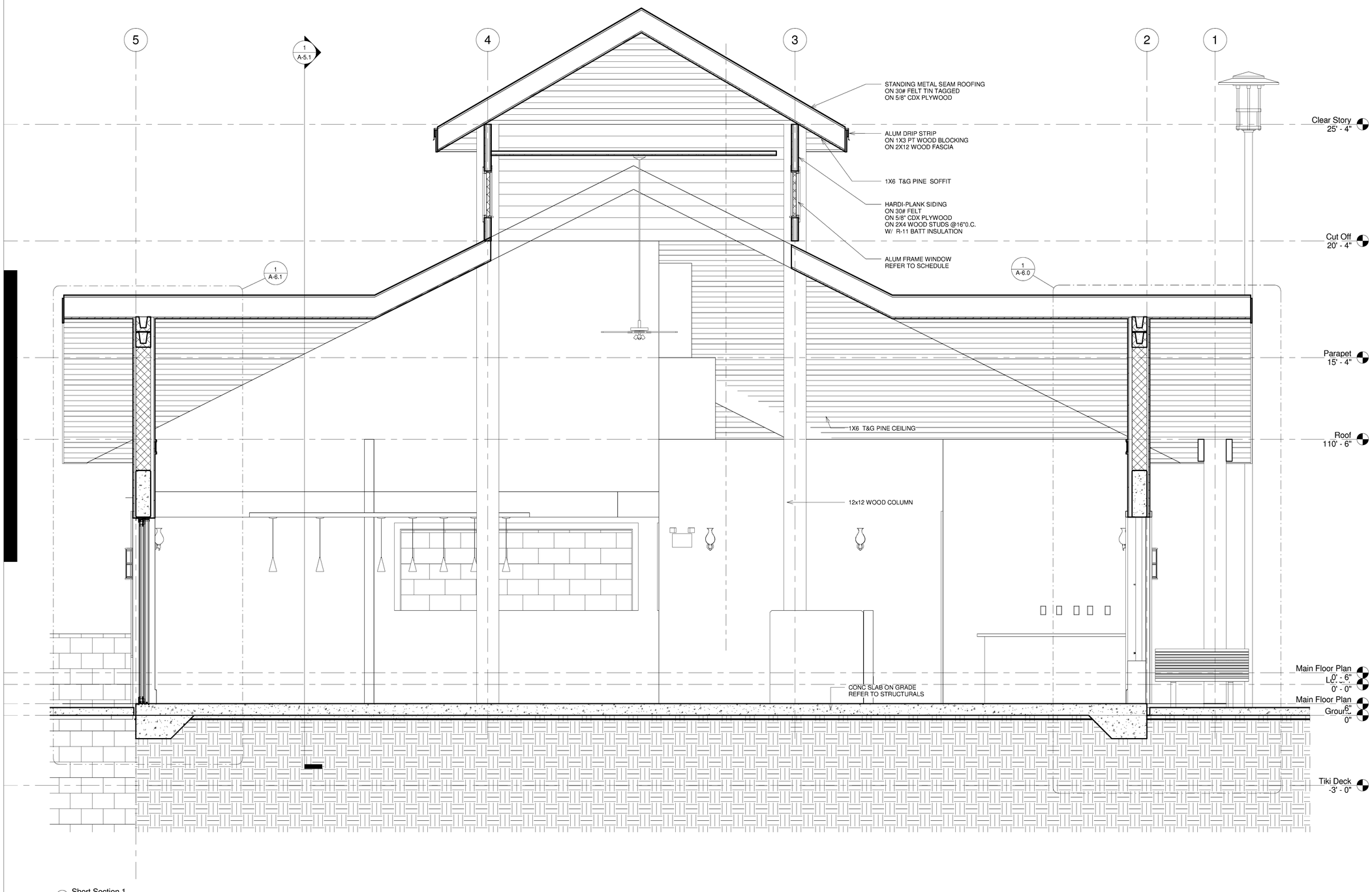
Frigates Restaurant

Toilet Room

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-4.1

Scale	1/4" = 1'-0"



1 Short Section 1
1/2" = 1'-0"

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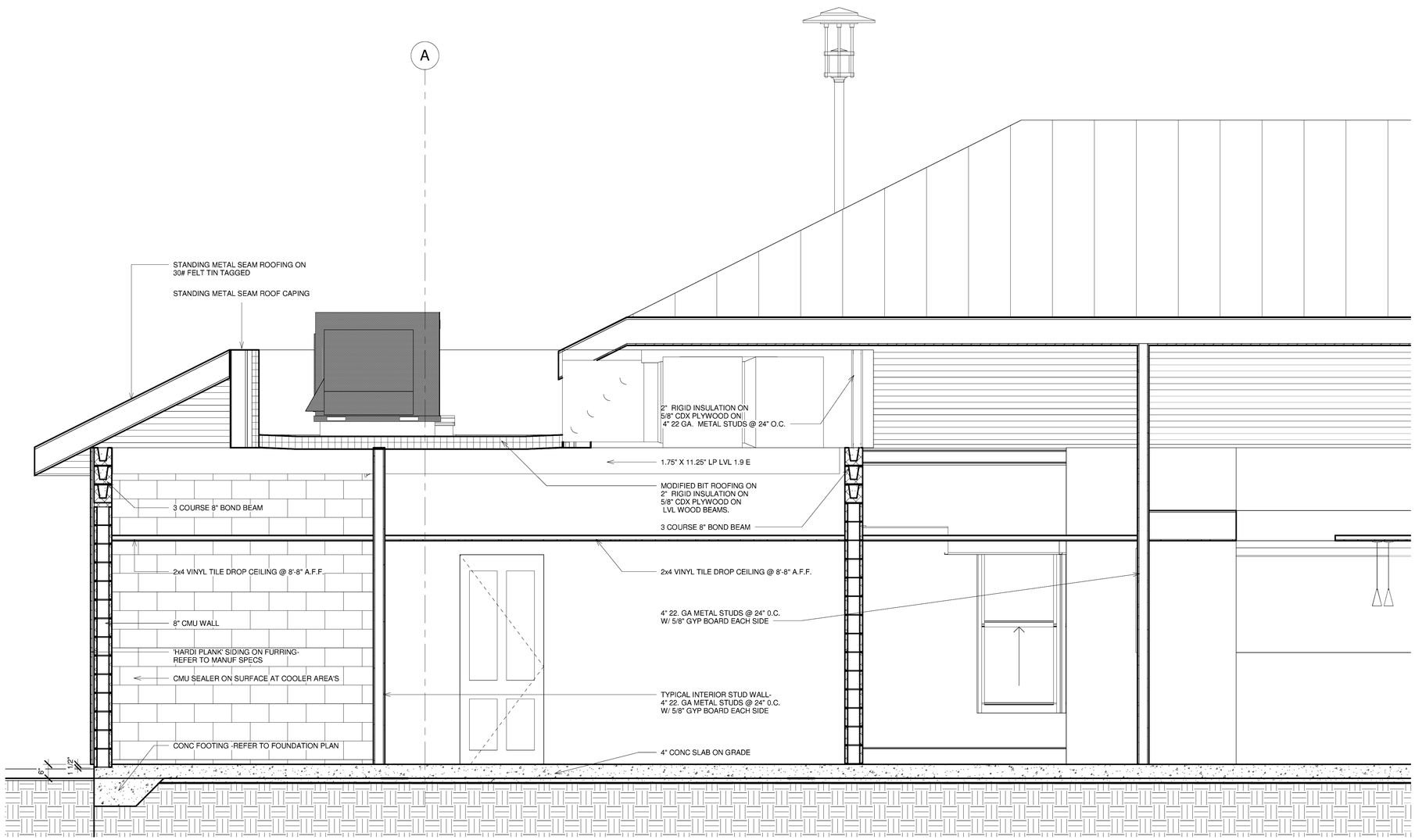
No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Building Section

Project number	CB-01
Date	25 May 2010
Drawn by	ERF
Checked by	ERF

A-5.0

Scale	1/2" = 1'-0"



1 Kitchen Section
1/2" = 1'-0"

Eugene R Fagan III Architect #11668

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Eugene@FaganArchitect.com

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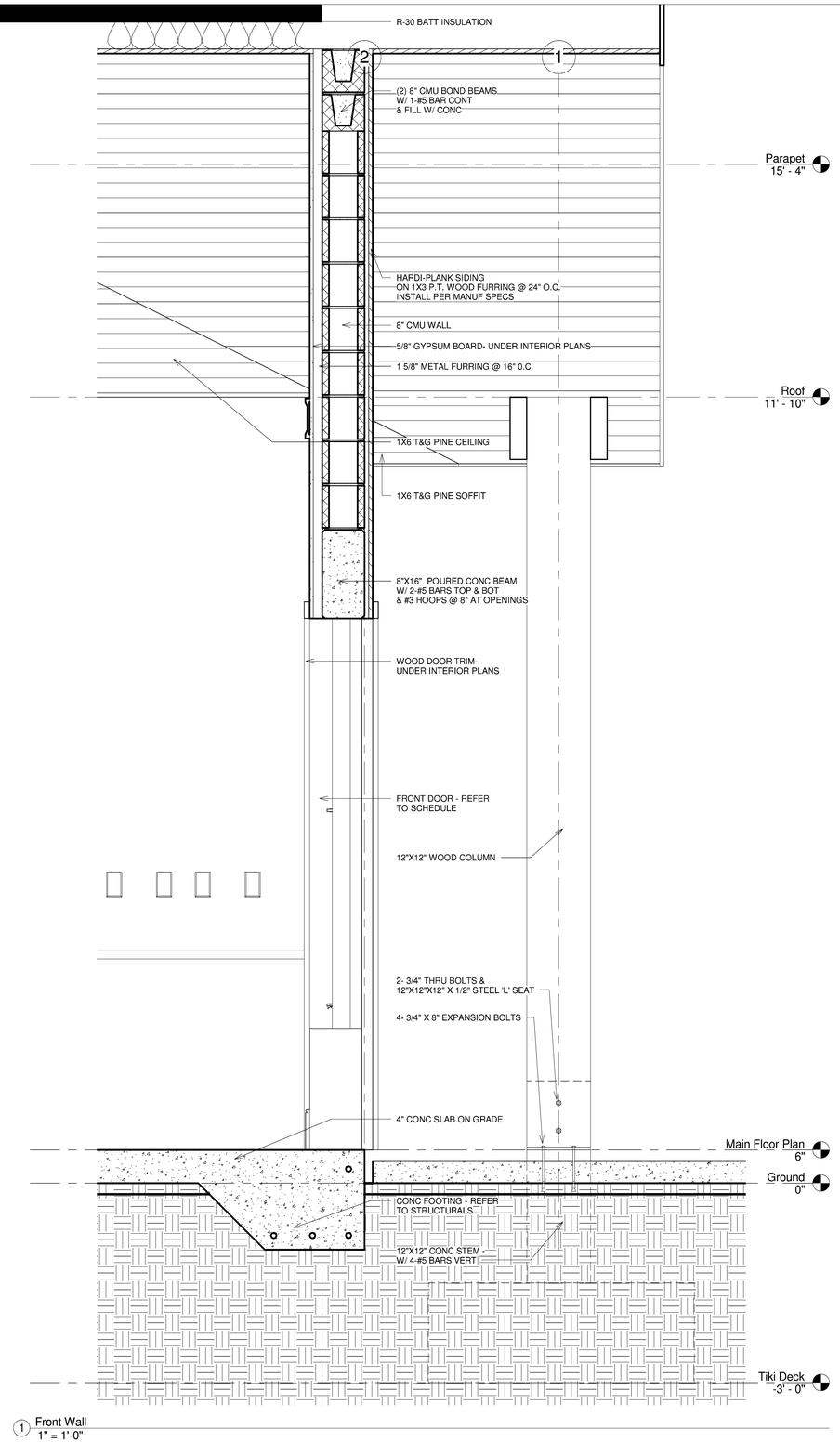
No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Kitchen Section

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-5.1

Scale 1/2" = 1'-0"



1 Front Wall
1" = 1'-0"

Eugene R Fagan III Architect #11668

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(561) 385-4514
Eugene@FaganArchitect.com

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No.	Description	Date

Frigates Holdings LLC

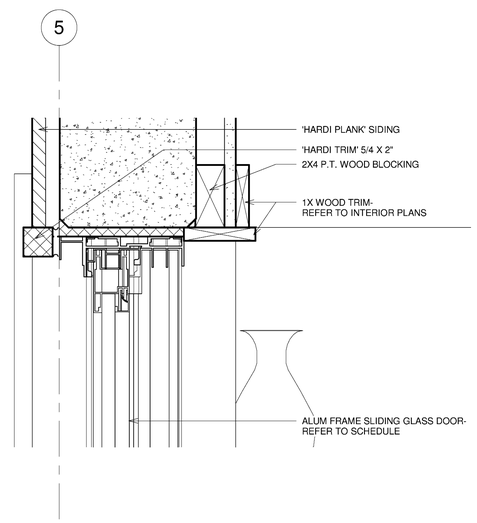
Frigates Restaurant

Front Wall Section

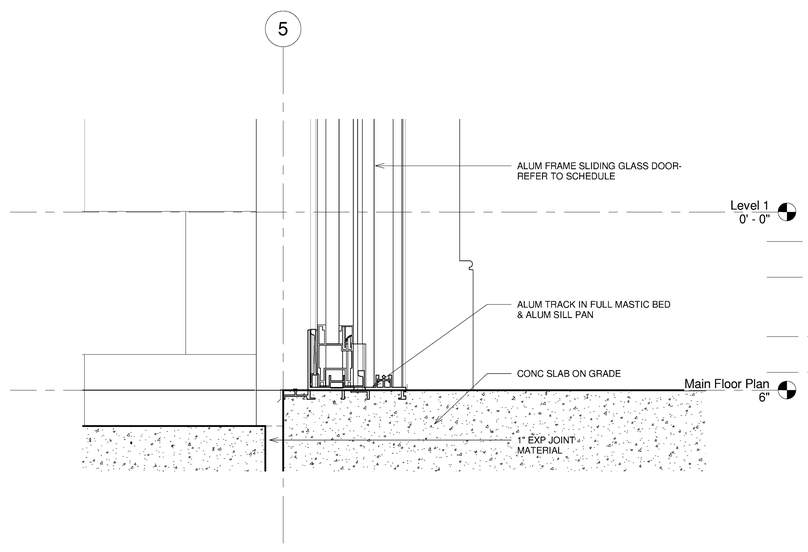
Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-6.0

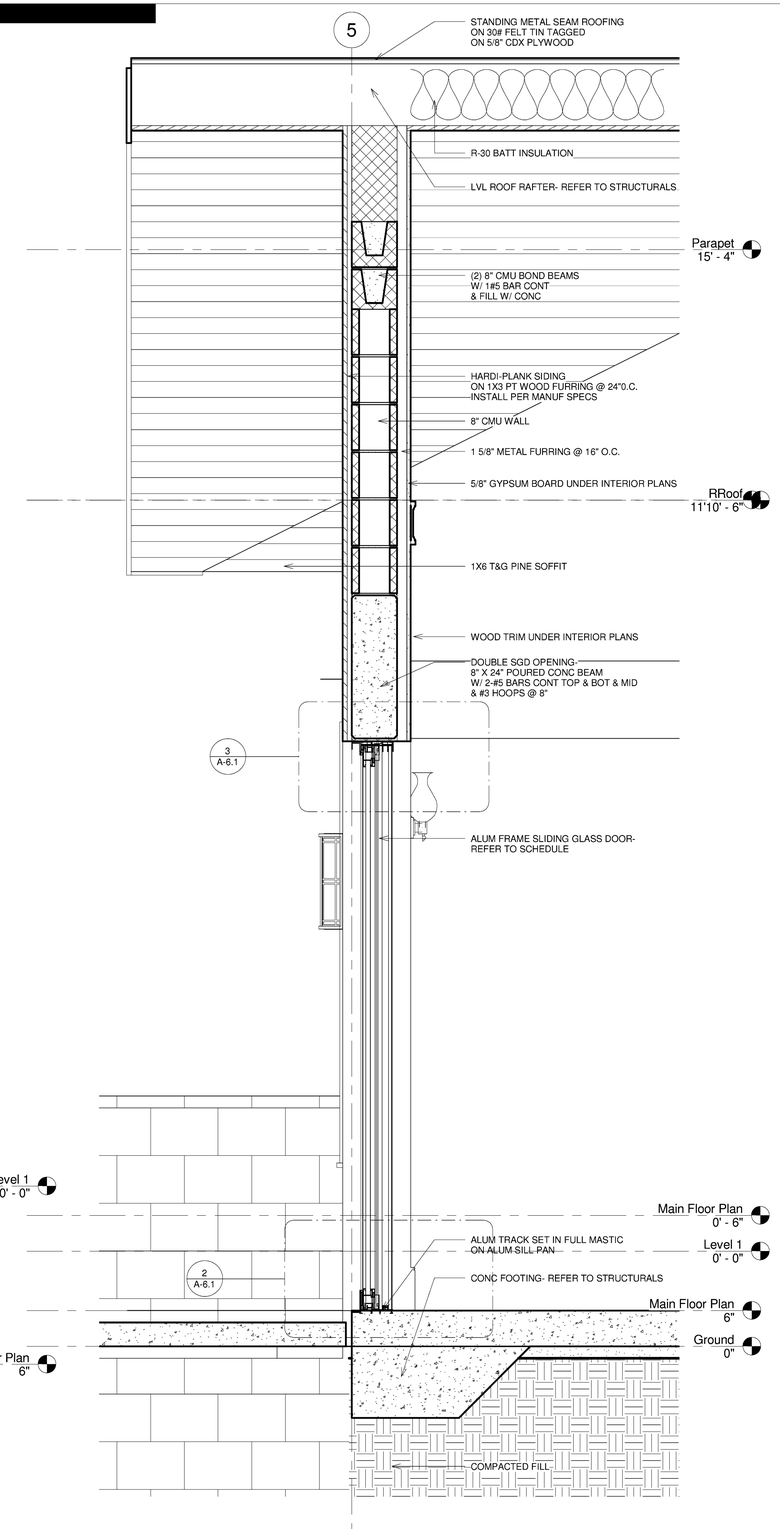
Scale 1" = 1'-0"



3 SGD Head
3" = 1'-0"



2 SGD Sill
3" = 1'-0"



1 Rear Wall
1" = 1'-0"

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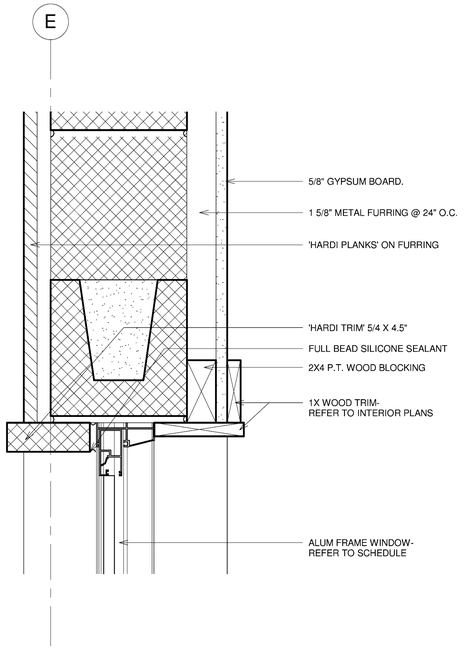
No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Rear Wall Section

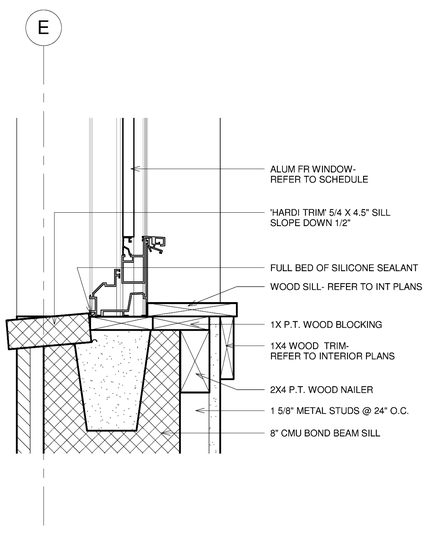
Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-6.1

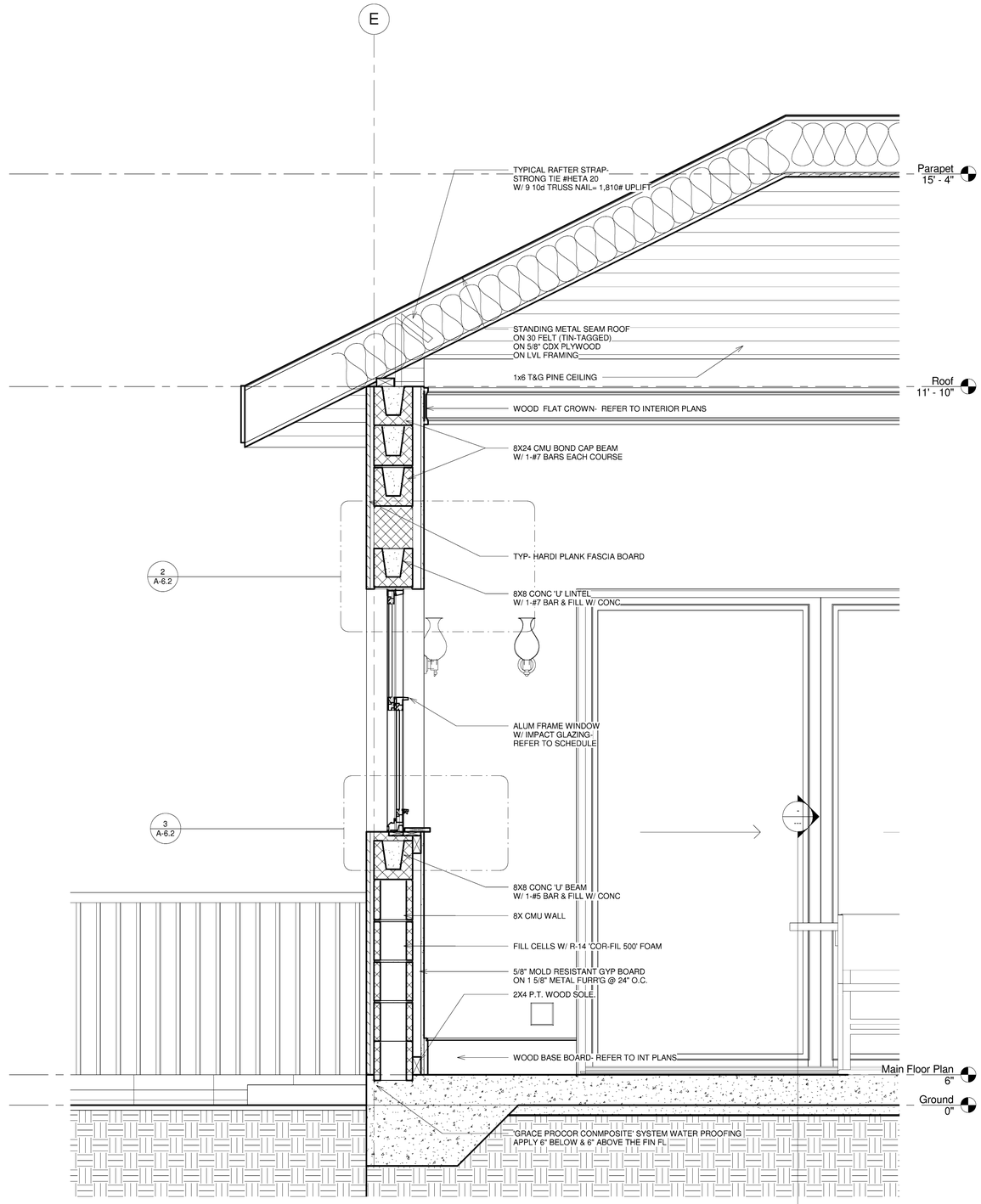
Scale: As indicated



2 Window Head
3" = 1'-0"



3 Window Sill
3" = 1'-0"



1 East Wall
1" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
East Wall Section

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

A-6.2

Scale	As indicated

'A' WALL = 3 5/8" 20 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

'B' WALL = 3 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

'C' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
T.O.W.= 11'-4" A.F.F.

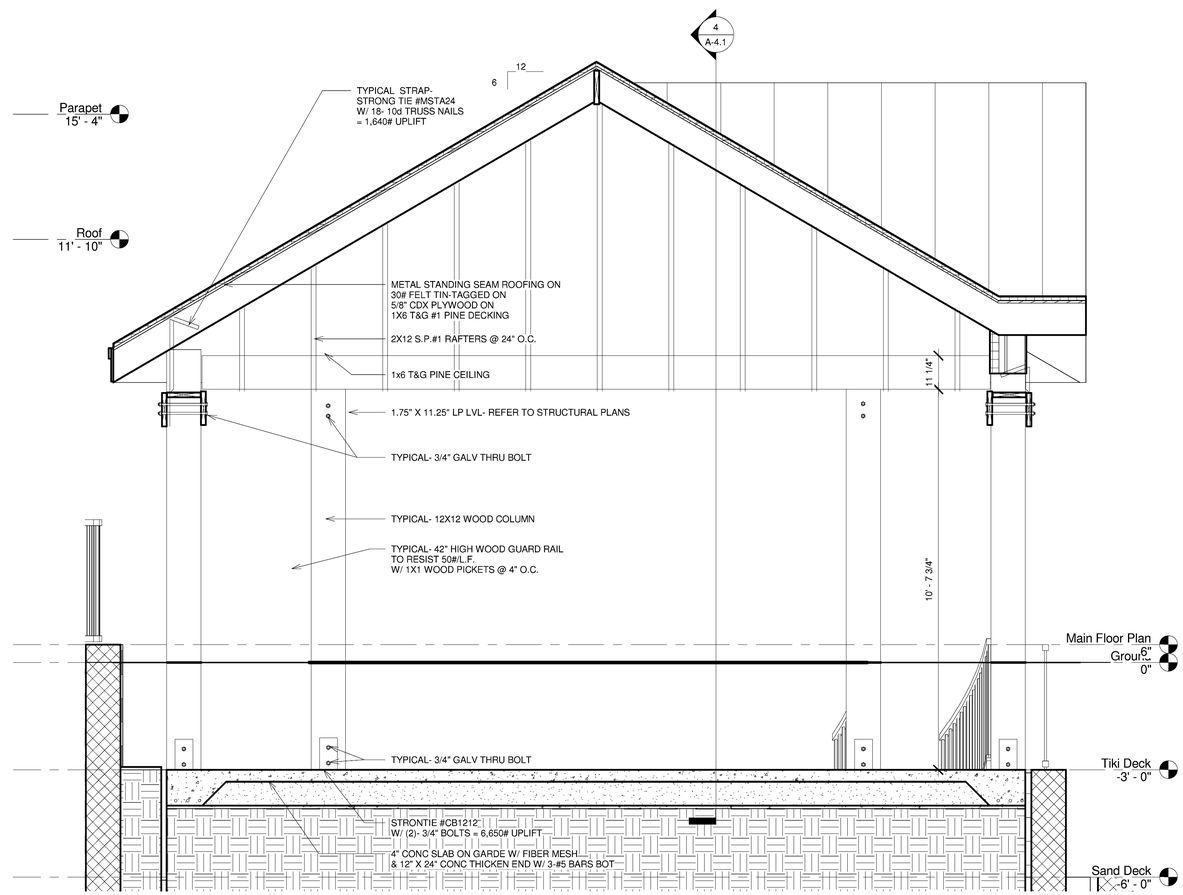
'D' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 2" METAL FURR @ 16" O.C. EACH SIDE
T.O.W.= 11'-4" A.F.F.

'E' WALL = 5 5/8" 25 GA METAL STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS EACH SIDE
& SOUNDS BATTS BETWEEN STUDS
METAL BOTTOM TRACK FASTEN W/ 'SHOT-PIN' @ 32" O.C.
T.O.W.= 11'-4" A.F.F.

'F' WALL = 7 5/8" CMU
(3) 8" BOND BEAM CAP
W/1-#5 BAR & FILL W/ CONC
5/8" GYPSUM BOARDS ON 1 5/8" METAL FURR @ 16" O.C. (INTERIOR)
T.O.W.= 11'-4" A.F.F.

'G' WALL = 2X4 P.T. WOOD STUDS @ 16" o.c.
W/ 5/8" GYPSUM BOARDS INTERIOR
5/8" CDX PLYWOOD AND HARDI-PLANKS EXTERIOR
2X4 P.T. WOOD SOLE FASTEN W/ 1/4"X5" TAPCONS @ 16" O.C.
T.O.W.= EXTEND TO ROOF RAFTERS

'H' WALL = SEA WALL AND CAP BY OTHERS IN SEPARATE PERMIT



1 Tiki Bar Section
1/2" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

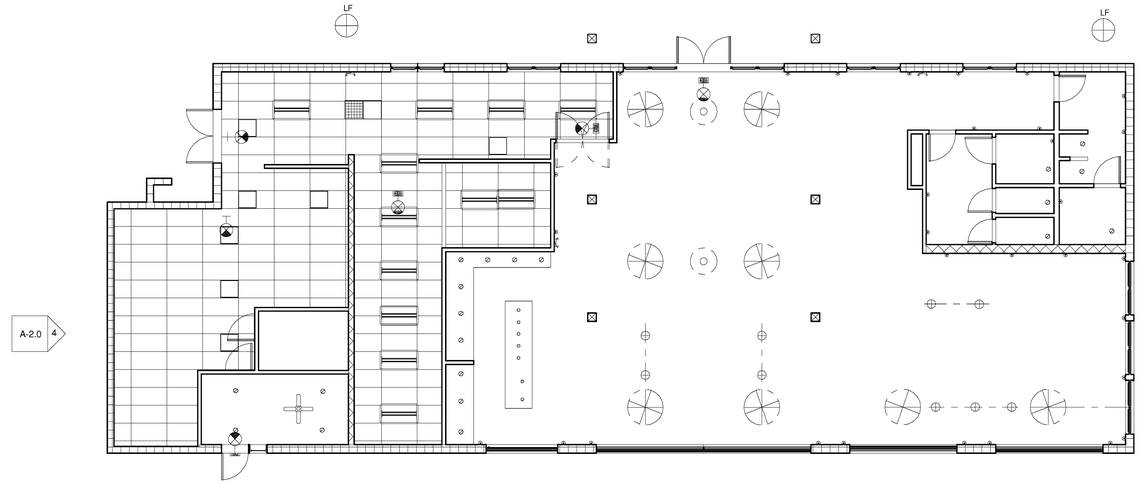
Frigates Restaurant

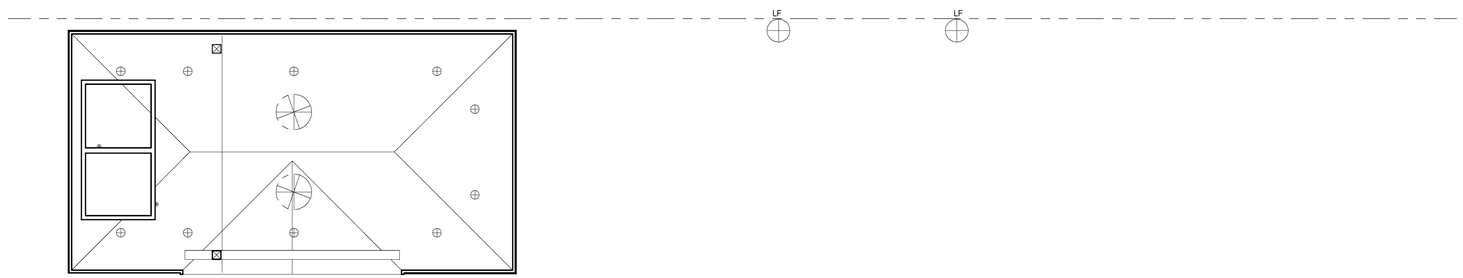
Tiki Bar Section & Wall Schedule

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

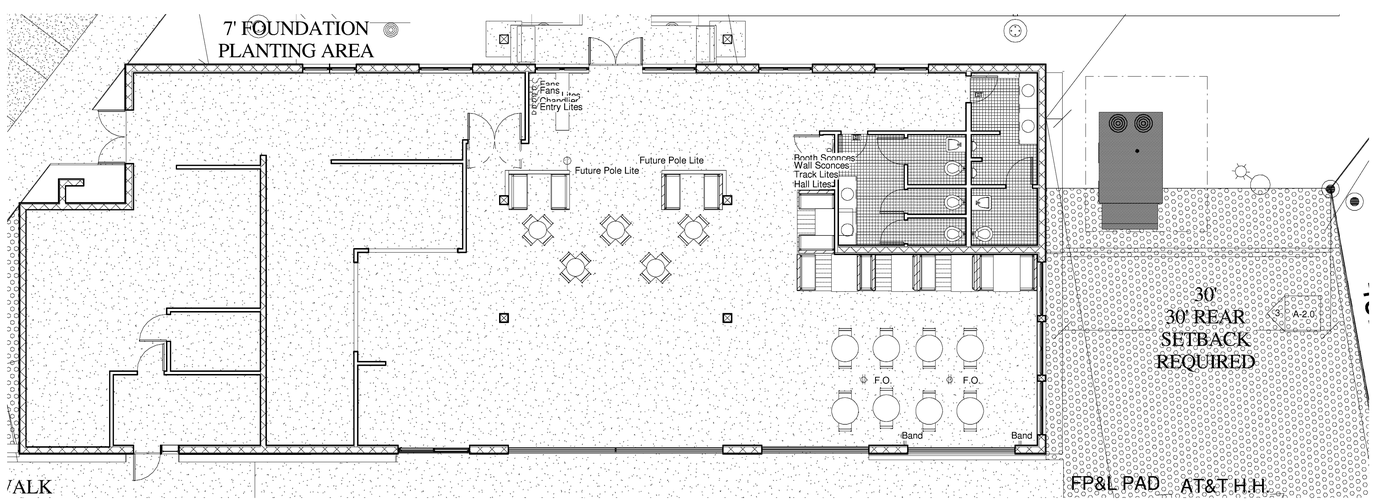
A-6.3

Scale	1/2" = 1'-0"





2 Main Floor Plan Ceiling Lighting
1/8" = 1'-0"



1 Main Floor Plan-Lighting
1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

Architectural Lighting Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

AL-1.0

Scale	1/8" = 1'-0"

SITE ENGINEERING PLANS
FOR

Frigate's Restaurant

Village of North Palm Beach, Florida

LEGAL DESCRIPTION

PARCEL 1:
A PARCEL OF LAND LYING IN SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, VILLAGE OF NORTH PALM BEACH, PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 WITH THE NORTH RIGHT OF WAY LINE OF CANAL C-17 AS NOW ESTABLISHED; THENCE ON AN ASSUMED BEARING OF DUE EAST ALONG THE SAID NORTH RIGHT OF WAY LINE OF CANAL C-17, A DISTANCE OF 223.50 FEET; THENCE NORTH 10 DEGREES 09'00" WEST, A DISTANCE OF 43.37 FEET; THENCE NORTH 37 DEGREES 27'47" EAST, A DISTANCE OF 189.55 FEET; THENCE NORTH 10 DEGREES 09'00" WEST, A DISTANCE OF 49 FEET; THENCE SOUTH 79 DEGREES 41'56" WEST, A DISTANCE OF 364.71 FEET TO A POINT IN THE AFORESAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 AS NOW ESTABLISHED; THENCE SOUTH 21 DEGREES 10'13" EAST, A DISTANCE OF 24.64 FEET; THENCE SOUTH 10 DEGREES 09'00" EAST, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 155.62 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

PARCEL 2:

A PARCEL OF LAND LYING IN SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, VILLAGE OF NORTH PALM BEACH, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE WEST 233.66 FEET OF THE FOLLOWING DESCRIBED PROPERTY: BEGINNING AT THE INTERSECTION OF THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1 WITH THE NORTH RIGHT OF WAY LINE OF CANAL C-17; THENCE ON AN ASSUMED BEARING OF DUE EAST, ALONG SAID NORTH RIGHT OF WAY LINE, A DISTANCE OF 942.63 FEET; THENCE DUE SOUTH, A DISTANCE OF 30.30 FEET TO THE FACE OF AN EXISTING BULKHEAD; THENCE DUE WEST, ALONG THE FACE OF SAID BULKHEAD, A DISTANCE OF 937.21 FEET TO THE SAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #1, THENCE NORTH 10 DEGREES 09'00" WEST, ALONG SAID EASTERLY RIGHT OF WAY LINE, A DISTANCE OF 30.78 FEET TO THE POINT OF BEGINNING.

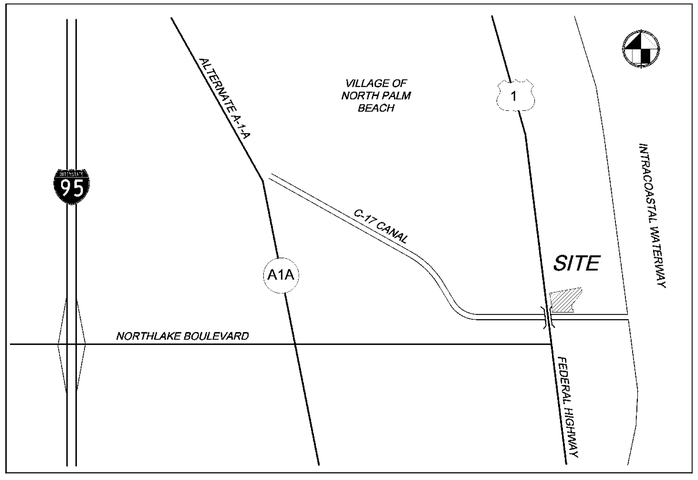
ALSO KNOWN AS:

A PORTION OF SECTION 16, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE NORTHERLY RIGHT OF WAY LINE OF CANAL C-17 WITH THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 1 (130 FOOT RIGHT-OF-WAY); THENCE NORTH 10 DEGREES 09'00" WEST ALONG THE SAID EASTERLY RIGHT OF WAY LINE A DISTANCE OF 155.62 FEET TO A NAIL; THENCE NORTH 21 DEGREES 10'13" WEST ALONG SAID RIGHT OF WAY LINE A DISTANCE OF 24.64 FEET TO A REBAR; THENCE NORTH 79 DEGREES 41'56" EAST, A DISTANCE OF 364.71 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 49.00 FEET TO A REBAR; THENCE SOUTH 37 DEGREES 27 47" WEST, A DISTANCE OF 189.55 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 43.37 FEET TO A REBAR LYING ON SAID NORTHERLY RIGHT OF WAY LINE OF CANAL C-17; THENCE NORTH 90 DEGREES 00'00" EAST ALONG SAID NORTHERLY RIGHT OF WAY LINE A DISTANCE OF 10.16 FEET TO A REBAR; THENCE SOUTH 10 DEGREES 09'00" EAST A DISTANCE OF 29.34 FEET TO A DRILL HOLE IN THE BULKHEAD WALL OF SAID CANAL C-17; THENCE NORTH 89 DEGREES 56'06" WEST ALONG THE FACE OF SAID BULKHEAD WALL A DISTANCE OF 233.66 FEET TO A REBAR LYING ON SAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY ONE, THENCE NORTH 10 DEGREES 09'00" WEST A DISTANCE OF 29.07 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.527 ACRES MORE OR LESS.

OWNER:
Frigate's Holdings LLC
100 Ebbtide Drive
North Palm Beach, Florida



LOCATION MAP
S 16, T 42S, R 43E
NTS

INDEX OF SHEETS

SHEET DESCRIPTION	SHEET NO.
CONSTRUCTION PERIOD STORMWATER POLLUTION PREVENTION PLAN	1
DEMOLITION PLAN	2
PAVING, GRADING, & DRAINAGE PLAN	3
WATER & SEWER PLAN	4
PAVING, GRADING & DRAINAGE DETAILS	5
WATER & SEWER DETAILS	6 - 8

PROJECT NO. 10125
May 2010

THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN OF THE PUBLIC ROADS SHOWN HEREON COMPLIES WITH THE INTENT OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREET AND HIGHWAYS", AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE, CHAPTER 72-328 F.S.

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TOLL FREE
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UNDERGROUND UTILITIES NOTIFICATION CENTER OF FLORIDA

FIRST CALL OF FLORIDA
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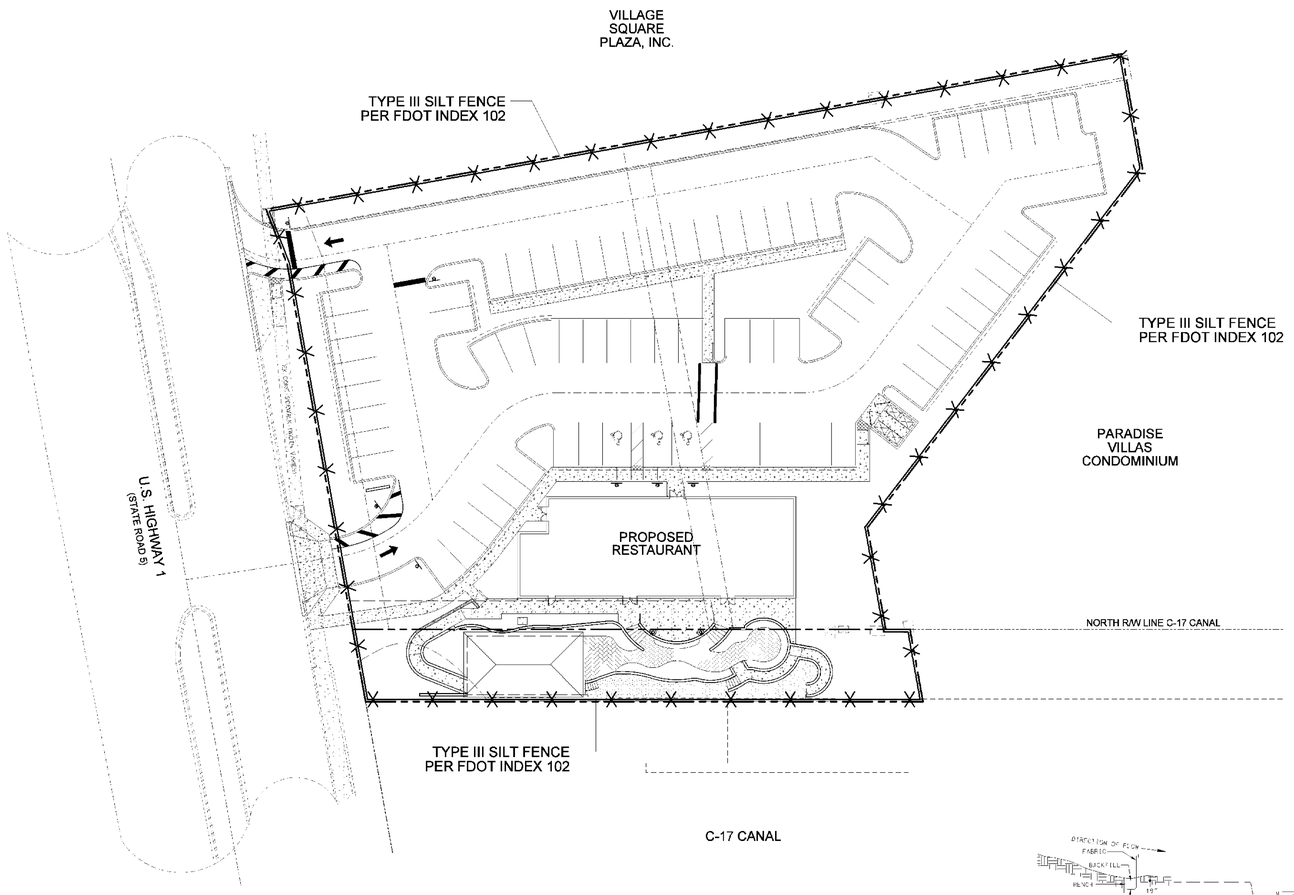
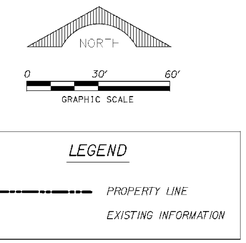
FOR FLORIDA POWER AND LIGHT CO.

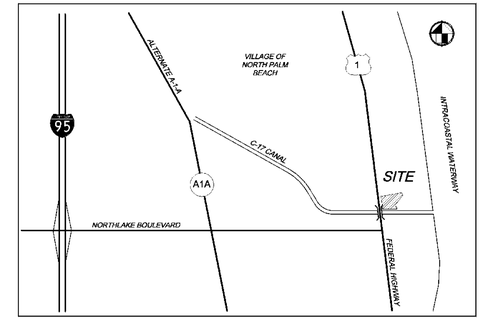
SCHNARS ENGINEERING CORPORATION
949A CLINT MOORE ROAD • BOCA RATON, FLORIDA 33487
TEL: (561) 241-6455 • FAX: (561) 241-5182
CERTIFICATE OF AUTHORIZATION 36640

SCHNARS
ENGINEERING CORPORATION

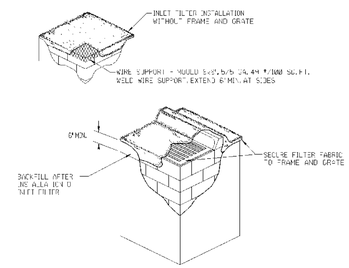
James W. Mahoney, P.E.
Civil Engineer
Florida Registration No. 47066
(FOR THE FIRM)







LOCATION MAP
NOT TO SCALE



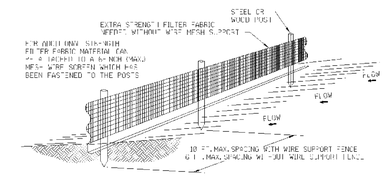
NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL PASS THROUGH THE SEDIMENT TRAP VIA THREE OPENINGS IN THE BACK SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY PASS THROUGH THE TRAPS VIA PIPES AND FLOW INTO AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPLACED WHEN THE SEDIMENT IS TO BE REMOVED.

INLET FILTER DETAIL



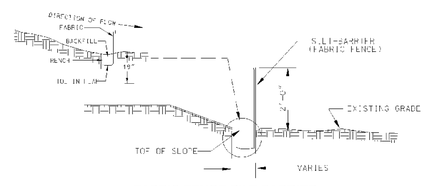
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES AND CMS.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE PLOWED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS, USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 30 INCHES (80 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 ACRE OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO DEP.

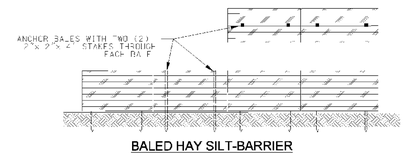
SILT FENCE INSTALLATION DETAIL

EROSION AND SEDIMENTATION CONTROL NOTES

1. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SUBGRADE MATERIAL ON THE BALANCE OF THE PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
2. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM DITCH, OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
3. BEFORE TEMPORARY, OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
4. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
5. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTRIBUTING ACTIVITIES.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, IN THE OPINION OF THE REVIEWER. DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
7. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DISPOSITION AND EROSION.
8. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NOS. 101, 102 AND 103 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
9. THE ENGINEER MAY APPROVE MODIFICATIONS OR ALTER PLANS TO THESE EROSION CONTROL CRITERIA DUE TO SITE SPECIFIC CONDITIONS.
10. FILTER FABRIC SHALL BE INSTALLED ON ALL DRAINAGE INLET TOPS AND SOD SHALL BE PLACED AROUND DITCH BOTTOM INLETS TO PREVENT DEBRIS AND SILTATION FROM ENTERING DRAINAGE SYSTEM DURING CONSTRUCTION.
11. SILT FENCES OR STRAW BALES SHALL BE UTILIZED AT INLETS AND ALONG PROPERTY LINES TO RETAIN SEDIMENT ON THE SITE. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND FOUR INCHES DEEP. EACH BALE SHALL BE ANCHORED BY AT LEAST TWO STAKES.
12. WATER TRUCKS SHALL BE UTILIZED TO MINIMIZE WIND EROSION.
13. A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FDOT AGGREGATE NO. 1) AT LEAST SIX INCHES THICK. IT MUST EXTEND TO THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
14. IF THE CONDITIONS ON THE SITE ARE SUCH THAT MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL ENTRANCE ROAD, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT.
15. THE LIMEROCK SHALL BE INSTALLED IMMEDIATELY AFTER THE FINISHED GRADING IS COMPLETE ON THE ROAD AND PARKING LOT SUBGRADE.
16. LAKE BANKS SHALL BE SEED AND MULCHED OR SODDED IMMEDIATELY AFTER FINAL GRADING.
17. TRUCKS ENTERING AND EXITING THE SITE WITH FILL MATERIAL SHALL BE COVERED.
18. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.
19. EXPOSED SOIL SHALL BE PLANTED WITH VEGETATIVE MATERIAL OR COVERED WITH PROTECTIVE GROUND COVER AS SOON AS PRACTICAL UPON COMPLETION OF CONSTRUCTION ACTIVITIES.



FABRIC FENCE SILT-BARRIER



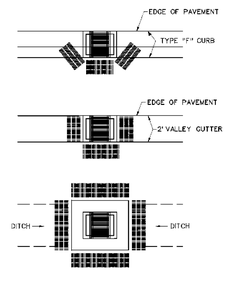
BALED HAY SILT-BARRIER

PERIMETER EROSION AND SEDIMENT CONTROL

NOTES:

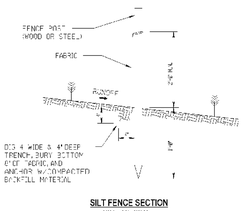
1. CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ONTO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE. THE BARRIER MUST REMAIN IN PLACE UNTIL UPLAND VEGETATION IS ESTABLISHED.
2. BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

SILT BARRIER DETAIL

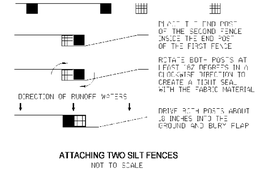


ANCHOR BALES WITH 2- 2"x2"x4' STAKES PER BALE
PER FDOT INDEX No.102

LOCATION OF TEMPORARY SEDIMENT TRAPS TO BE DETERMINED BY CONTRACTOR



SILT FENCE SECTION
NOT TO SCALE



ATTACHING TWO SILT FENCES
NOT TO SCALE

SILT FENCE INSTALLATION DETAIL

SCHNARS ENGINEERING CORPORATION
949A Clint Moore Road
Boca Raton, Florida 33487
Certificate of Authorization #6640
Tel: (561) 241-6455
Fax: (561) 241-5182

OWNER:	PROJECT:	TASK:
FRIGATE'S HOLDINGS LLC	FRIGATE'S RESTAURANT	CONSTRUCTION PERIOD
100 EBBTIDE DRIVE		STORMWATER POLLUTION PREVENTION PLAN
NORTH PALM BEACH, FLORIDA	VILLAGE OF NORTH PALM BEACH FLORIDA	

ORIGINAL: MAY 2010

REVISIONS:
1 7/13/10 PER VILLAGE OF NPB
2 12/10/10 REV. REAR DINING AREA
3
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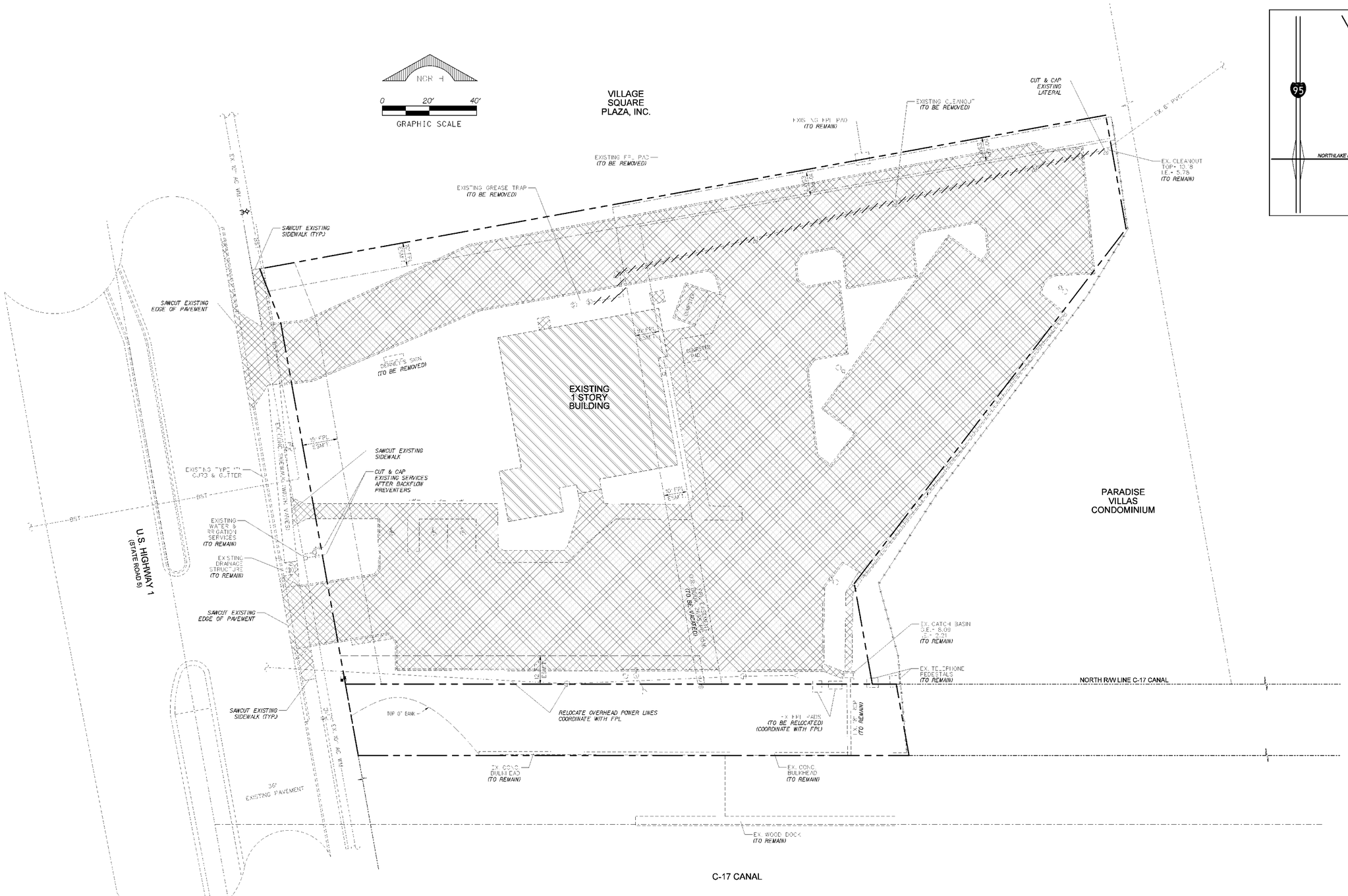
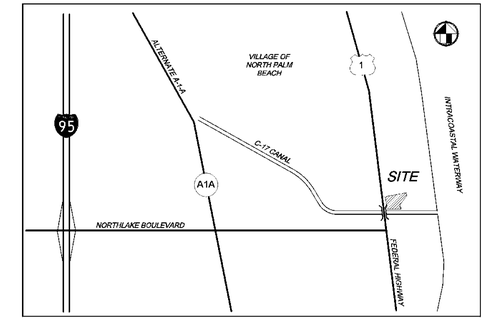
SEAL

Jerome W. Middlebrooks, P.E.
Civil Engineer
Florida Registration No. 47066
(561) 241-6455

JOB NO.	10125
DRAWN	RAD
DESIGNED	JWM
CHECKED	JTS
Q.C.	JWM
SHEET	1 OF 8





LOCATION MAP
NOT TO SCALE

LEGEND

- PROPERTY LINE
- EXISTING UTILITIES TO BE REMOVED
- EXISTING PAVEMENT, CURB AND SIDEWALK TO BE REMOVED
- EXISTING BUILDING TO BE REMOVED
- CONC. LIGHT POLE
- CONC. POWER POLE
- GUY WIRE
- BACKFLOW PREVENTER
- WATER METER
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- ELECTRIC HANDHOLE
- ELECTRIC SERVICE
- SANITARY CLEANOUT
- SINGLE POST SIGN
- TELEPHONE RISER

NOTES:

1. ALL PAVING AND CURBS WITHIN THE PROPERTY BOUNDARY SHALL BE REMOVED UNLESS DESIGNATED TO REMAIN.
2. ALL CATCH BASINS AND DRAINAGE PIPE WITHIN THE PROPERTY BOUNDARY SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE WITH THE SEACOAST UTILITY AUTHORITY ON ALL WATER AND SEWER REMOVAL. CONTINUOUS WATER & SEWER SERVICE SHALL BE MAINTAINED TO EXISTING USERS.
4. ALL LIGHT POLES WITHIN THE PROPERTY LIMITS SHALL BE REMOVED.
5. UNDER FLORIDA STATUTES, THE CONTRACTOR MUST PROVIDE A 48 HOUR NOTIFICATION PRIOR TO ANY OPERATION WHICH WOULD "PIERCE THE EARTH'S SURFACE" WITH THE WORK STARTED WITHIN FIVE WORKING DAYS AFTER ALL UNDERGROUND UTILITIES HAVE BEEN IDENTIFIED. THE NOTIFICATION NUMBER IS A ONE CALL SYSTEM STATEWIDE AT (800) 432-4770. FAILURE TO COMPLY COULD RESULT IN FINES AND DAMAGES.

   UNIVERSAL COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

RED	ELECTRIC
YELLOW	GAS-OIL
ORANGE	COMMUNICATION, CATV
BLUE	WATER
GREEN	SEWER
PINK	SURVEY MARKINGS
WHITE	PROPOSED EXCAVATION

6. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE.

   FLORIDA POWER AND LIGHT COMPANY
   A T & T
   SEACOAST UTILITY AUTHORITY
   ADELPHIA COMMUNICATIONS
   FLORIDA PUBLIC UTILITIES
   FLORIDA DEPARTMENT OF TRANSPORTATION
   VILLAGE OF NORTH PALM BEACH ENGINEERING DEPT.

8. SEE SURVEY BY R.B.BRENNAN SURVEYING FOR EXISTING TREE IDENTIFICATION. SEE LANDSCAPE PLAN FOR TREE DISPOSITION.
9. CONTRACTOR SHALL COORDINATE THE RELOCATION OF UNDERGROUND AND OVERHEAD ELECTRIC WITH FLORIDA POWER & LIGHT.

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OWNER: **FRIGATE'S HOLDINGS LLC**
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: **FRIGATE'S RESTAURANT**
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: **DEMOLITION PLAN**

ORIGINAL: MAY 2010
REVISIONS:
1 7/13/10 PER VILLAGE OF NPB
2
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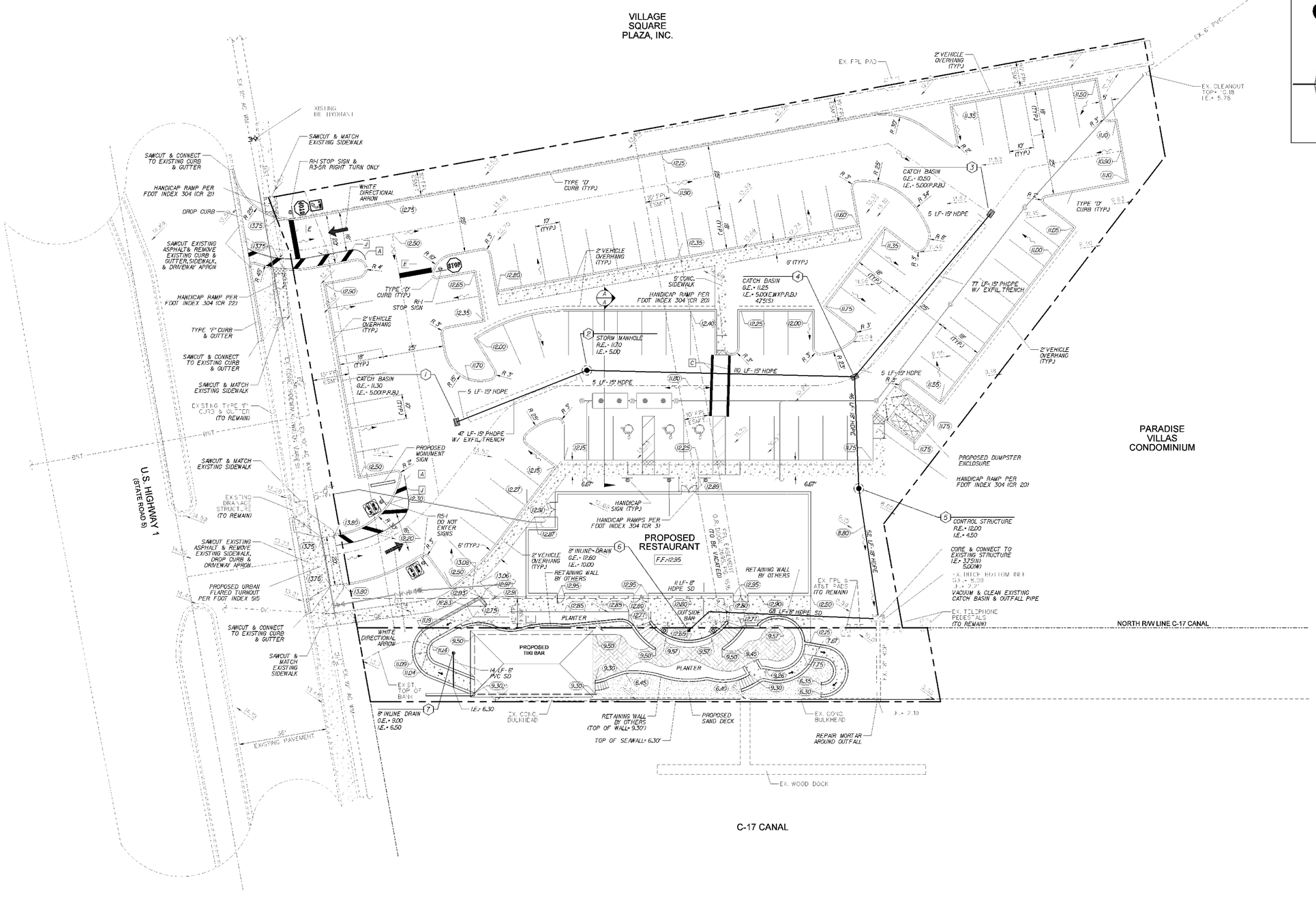
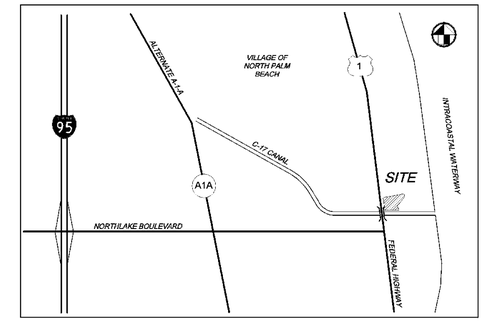
SEAL

James W. Mohrmann, P.E.
Civil Engineer
Florida Registration No. 47066
(FOR T.P. FIRM)

JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 2 OF 8

9/4/25 AM
7-14-2010





LOCATION MAP
NOT TO SCALE

NORTH

0 20' 40'
GRAPHIC SCALE

PAVING AND DRAINAGE LEGEND

R.E.	RIM ELEVATION
G.E.	GRATE ELEVATION
I.E.	INVERT ELEVATION
— — 5 — —	EXISTING CONTOUR LINE
	DIRECTION OF OVERLAND FLOW
150' @ 0.5%	PAVEMENT SLOPE
P.R.B.	POLLUTION RETARDANT BASIN
F.F.= 10.00	FINISHED FLOOR ELEVATION
	EXISTING UTILITIES
CATCH BASIN G.E.= I.E.=	STRUCTURE DESIGNATION
100 LF- 15"	LENGTH & SIZE OF STORM DRAIN
12.45	EXISTING ELEVATION
(15.50)	PROPOSED GRADE
	PROPERTY LINE
	EXISTING OR PROPOSED BY OTHERS INFORMATION
	PROPOSED INFORMATION
	PROPOSED BRICK PAVERS
	PROPOSED CONCRETE

STRIPING KEY

A - 6" SOLID WHITE
B - 8" SOLID WHITE
C - 12" SOLID WHITE
D - 18" SOLID WHITE
E - 24" SOLID WHITE
F - 6" SKIP WHITE TYP (10'- 30')
G - 6" SKIP WHITE TYP (6'- 10')
H - 6" SKIP WHITE TYP (2'- 4')
I - 6" SOLID YELLOW
J - 18" SOLID YELLOW
K - 6" DOUBLE YELLOW
L - 6" SKIP YELLOW TYP (10'- 30')
M - 6" SKIP YELLOW TYP (6'- 10')
N - 6" SKIP YELLOW TYP (2'- 4')
P - RPM MONO-DIRECTIONAL WHITE/CLEAR
Q - RPM BI-DIRECTIONAL AMBER/AMBER
R - FDP WHITE
S - FDP YELLOW
T - RPM BI-DIRECTIONAL WHITE/RED

NOTES:

1. ALL ONSITE PAVEMENT MARKINGS SHALL BE PAINT & ALL OFFSITE PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH STANDARD INDEX 17346.
2. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST FDOT DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. MAINTENANCE OF TRAFFIC (MOT) WILL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD INDEX 612 SERIES.
4. CONTRACTOR SHALL SUBMIT MOT PLANS TO FDOT AND VILLAGE OF NORTH PALM BEACH PRIOR TO BEGINNING WORK.
5. CONTRACTOR TO VERIFY ALL SETBACKS, EASEMENTS, R.O.W. SIZE, SHOULDER LINES AND LOCATIONS PRIOR TO BEGINNING WORK.
6. ALL ELEVATIONS REFER TO N.G.V.D. 1929.

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OWNER: **FRIGATE'S HOLDINGS LLC**
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: **FRIGATE'S RESTAURANT**
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: **PAVING, GRADING & DRAINAGE PLAN**

ORIGINAL: MAY 2010
REVISIONS:
1 7/13/10 PER VILLAGE OF NPB
2 7/26/10 PER VILLAGE OF NPB
3 12/10/10 REV. REAR DINING AREA
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SEAL

James W. Mohrmann, P.E.
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Florida Registration No. 47266
(FOR THE FIRM)

JOB NO. 10125
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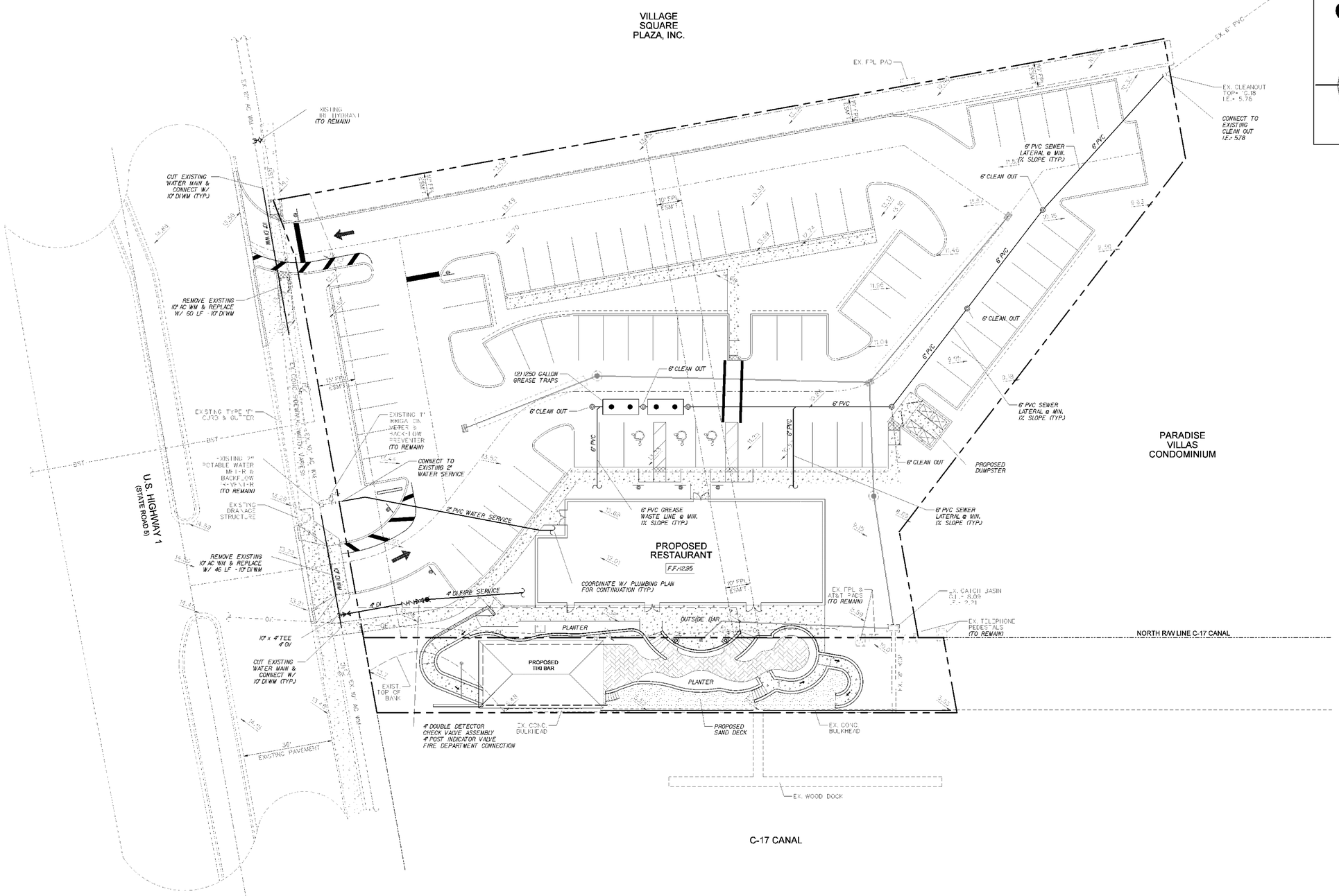
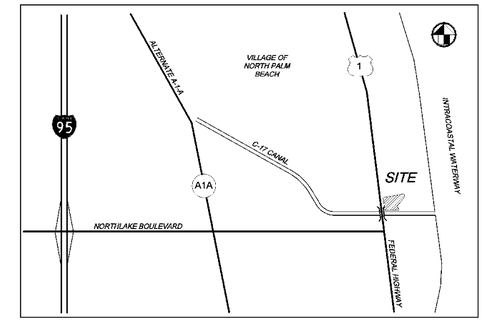
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 3 OF 8





LOCATION MAP
NOT TO SCALE

NORTH

0 20' 40'
GRAPHIC SCALE

WATER & SEWER LEGEND

- DOUBLE WATER METER SERVICE
- SINGLE WATER METER SERVICE
- 8" PVC 305' — LENGTH & MATERIAL OF PROPOSED WATER MAIN
- FIRE HYDRANT, GATE VALVE & TEE ASSEMBLY
- PROPOSED GATE VALVE
- REDUCER
- TAPPING SLEEVE
- B.P.-#2 — BACTERIOLOGICAL SAMPLING POINT
- PLUG WITH BLOWOFF ASSEMBLY
- DUCTILE IRON PIPE
- R.E. — RIM ELEVATION
- I.E. — INVERT ELEVATION
- MANHOLE DESIGNATION
- LENGTH & SLOPE OF SANITARY SEWER PIPE
- DOUBLE SEWER LATERAL
- SINGLE SEWER LATERAL
- PROPERTY LINE
- PROPOSED INFORMATION
- PROPOSED BRICK PAVERS
- PROPOSED ASPHALT
- EXISTING UTILITIES
- EXISTING ELEVATION
- EXISTING CONTOUR LINE

NOTE:
1. ALL ELEVATIONS REFER TO N.G.V.D. 1929.

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OWNER:	PROJECT:	TASK:
FRIGATE'S HOLDINGS LLC	FRIGATE'S RESTAURANT	WATER & SEWER PLAN
100 EBBTIDE DRIVE		
NORTH PALM BEACH, FLORIDA	VILLAGE OF NORTH PALM BEACH FLORIDA	

ORIGINAL: MAY 2010
REVISIONS:
1 7/13/10 PER VILLAGE OF NPB
2 12/10/10 REV. REAR DINING AREA
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SEAL

James W. Mohrmann, P.E.
Civil Engineer
Florida Registration No. 47066
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JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 4 OF 8

PAVING, GRADING AND DRAINAGE NOTES

1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, HARDPAN, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M-145, FOUND WITHIN THE BUILDING PAD, ROAD AND PARKING LOT AREAS SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, AND REPLACED WITH THE SPECIFIED FILL MATERIAL IN MAXIMUM 18" LIFTS THOROUGHLY AND UNIFORMLY COMPACTED TO ACHIEVE 95 PERCENT OF THE ASTM D1557 MAXIMUM DRY DENSITY.
2. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1 FOOT. ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS.
3. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, or A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. FILL MATERIAL SHOULD HAVE NOT MORE THAN 10% BY WEIGHT PASSING THE NO. 200 SIEVE AND SHALL HAVE NO PARTICLE SIZE LARGER THAN 12". CARE SHOULD BE EXERCISED WHEN PLACING MATERIALS WHICH EXCEED 3" TO ASSURE THAT NESTING DOES NOT OCCUR AND TO FURTHER ASSURE THAT THE +3" PARTICLES ARE FULLY SURROUNDED BY FINER GRAINED MATERIAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
5. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
6. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
7. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
8. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1 FOOT OF THE REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO DRAIN.
9. ALL SUBGRADE SHALL HAVE AN LBR OF 40, UNLESS OTHERWISE NOTED, AND SHALL BE COMPACTED TO 100% MAXIMUM DRY DENSITY PER AASHTO T-99.
10. LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 911 OF FLORIDA'S DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS EXCEPT AS LISTED BELOW. LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM. ALL LIMEROCK SHALL BE PRIMED.
11. SHELLROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 913A OF FLORIDA'S DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS EXCEPT AS LISTED BELOW. SHELLROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM. ALL LIMEROCK SHALL BE PRIMED.
12. CONCRETE AND ASPHALT SHALL BE OF THE TYPE DESIGNATED ON THE DRAWINGS.
13. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS.
14. CONCRETE SIDEWALK SHALL BE 4 INCHES THICK ON COMPACTED SUBGRADE. CRACK CONTROL JOINTS SHALL BE 5 FEET ON CENTER. THE BACK OF SIDEWALK ELEVATION SHALL EQUAL THE CROWN OF ROADWAY, UNLESS OTHERWISE SPECIFIED BY LOCAL CODES, OR SHOWN ON THE DRAWINGS. ALL CONCRETE SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6 INCHES THICK WITH 6" X 6" WELDED WIRE MESH REINFORCEMENT.
15. PIPE SPECIFICATIONS: THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS:

    RCP = REINFORCED CONCRETE PIPE, ASTM DESIGNATION C-76 TABLE III.
    CMP = CORRUGATED METAL (ALUMINUM) PIPE, ASTM DESIGNATION M-196
    CMP (SMOOTH LINED)=CORRUGATED METAL ALUMINUM PIPE (SMOOTH LINES), ASTM DESIGNATION M-196
    SCP = SLOTTED CONCRETE PIPE, FDOT SECTIONS 941 AND 942.
    PVC = POLYVINYL CHLORIDE PIPE
    PCMP= PERFORATED CMP, FDOT SECTION 945
    DIP = DUCTILE IRON PIPE
    HDPEP = SMOOTH LINED HIGH DENSITY POLYETHYLENE, AASHTO M294, TYPE-S
16. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MINIMUM STANDARDS OF VILLAGE OF NORTH PALM BEACH ENGINEERING DIVISION.
17. ASPHALT: BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT, VISCOSITY GRADE AC-20, CONFORMING TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, 1986, EDITION, SECTION 916-1.

    PRIME COAT SHALL BE CUT BACK ASPHALT GRADE RC-70, OR RC-250 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M81-75 (1982) (RATE - 0.10 GALLONS PER SQUARE YARD). TACK COAT SHALL BE EMULSIFIED ASPHALT, GRADE RS-2 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M 140-82 (RATE 0.02 TO 0.08 GALLONS PER SQUARE YARD).

    DESIGN MIX SHALL CONFORM TO FDOT SECTION 331 UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
18. DENSITY TESTS SHALL BE TAKEN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
19. ASPHALTIC CONCRETE SHALL BE OF THE TYPE SPECIFIED IN THE ROADWAY CROSS-SECTIONS.
20. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
21. PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATIONS C-478 AND 641, AND CITY OF LAKE WORTH ENGINEERING DEPARTMENT STANDARDS.
22. CONCRETE FOR PRECAST MANHOLE AND CATCH BASINS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
23. REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO ASTM SPECIFICATION A-615 AND A-305, LATEST REVISION.
24. ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
25. ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATER TIGHT.
26. ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 CEMENT MORTAR.
27. ALL CMP SHALL BE HELICAL ALUMINUM UNLESS OTHERWISE NOTED.
28. JOINTS IN CORRUGATED ALUMINUM PIPE SHALL EMPLOY CORRUGATED METAL BANDS OF SIMILAR METAL AND CORRUGATIONS WITH NEOPRENE, RAM-NEK, OR BITUMASTIC GASKETS INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. HDPEP JOINTS SHALL BE ADS PRO LINK ULTRA, HANCOR SURE-LOK OR APPROVED EQUAL AND SHALL BE WRAPPED WITH FILTER FABRIC.
29. REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION C-76, CLASS III, WALL THICKNESS B, LATEST REVISION, AND AS MODIFIED BY SECTION 941 OF THE FLORIDA DOT STANDARD SPECIFICATIONS, LATEST REVISION.
30. ALL UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO PAVING.
31. ALL HANDICAP SPACES, RAMPS, AND ACCESS AREAS SHALL COMPLY IN STRICT ACCORDANCE WITH THE "AMERICAN DISABILITY ACT" (ADA) (28 CFR PART 36), AND "ACCESSIBILITY BY HANDICAPPED PERSONS", CHAPTER 553, PART V, FLORIDA STATUTES. ANY DISCREPANCY SHALL BE CALLED TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

PAVEMENT MARKING AND SIGNING NOTES

1. PAVEMENT MARKINGS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PALM BEACH COUNTY TYPICAL No. T-P-97-002.
2. ALL ONSITE PAVEMENT MARKINGS SHALL BE PAINT & ALL OFFSITE PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
3. THESE INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. HOWEVER, WHERE CONFLICTS EXIST, P.B.C. TYPICAL T-P-97-002 SHALL TAKE PRECEDENT OVER FDOT STANDARD SPECIFICATIONS.
5. ALL R1-1 AND D3's SHALL BE HIGH INTENSITY MATERIAL.
6. TEMPORARY PAVEMENT MARKINGS ON FIRST LIFT OF ASPHALT SHALL BE PAINT.
7. TEMPORARY PAVEMENT MARKINGS ON FINAL LIFT SHALL BE FOIL BACK TAPE.

GENERAL NOTES

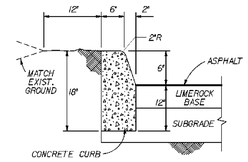
1. UNDER FLORIDA STATUTES, THE CONTRACTOR MUST PROVIDE A 48 HOUR NOTIFICATION PRIOR TO ANY OPERATION WHICH WOULD "PIERCE THE EARTH'S SURFACE" WITH THE WORK STARTED WITHIN FIVE WORKING DAYS AFTER ALL UNDERGROUND UTILITIES HAVE BEEN IDENTIFIED. THE NOTIFICATION NUMBER IS A ONE CALL SYSTEM STATEWIDE AT (800) 432-4770. FAILURE TO COMPLY COULD RESULT IN FINES AND DAMAGES.

UNIVERSAL COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

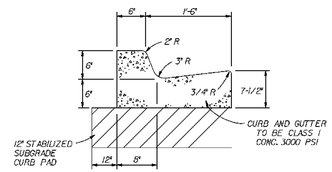
RED	ELECTRIC
YELLOW	GAS-OIL
ORANGE	COMMUNICATION, CATV
BLUE	WATER
GREEN	SEWER
PINK	SURVEY MARKINGS
WHITE	PROPOSED EXCAVATION

2. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE.

    SEACOAST UTILITY AUTHORITY
    A T & T
    LOCAL CABLE TELEVISION COMPANY(S)
    FLORIDA PUBLIC UTILITIES
    FLORIDA DEPT. OF TRANSPORTATION
    VILLAGE OF NORTH PALM BEACH PUBLIC WORKS DEPARTMENT
    FLORIDA POWER & LIGHT
4. ALL ELEVATIONS ARE BASED UPON THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY.
6. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD WITH THE CERTIFICATION THAT ALL CONSTRUCTION AND MATERIALS MEET OR EXCEEDS THE DESIGN AND HAS BEEN INSTALLED PER THE DRAWINGS AND/OR AS-BUILT DRAWINGS.
7. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND CONDUIT REQUIRED FOR FP&L, SOUTHERN BELL, IRRIGATION SYSTEM, ETC. PRIOR TO BEGINNING SUBGRADE. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.
8. THE CONTRACTOR SHALL SUBMIT THREE (5) SETS OF SHOP DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION FOR ALL MATERIALS USED ON THE PROJECT. APPROVED SHOP DRAWINGS FROM THE ENGINEER SHALL THEN BE SUBMITTED TO THE COUNTY OR CITY FOR THEIR APPROVAL. NO CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVED SHOP DRAWINGS HAVE BEEN OBTAINED BY THE CONTRACTOR FROM THE ENGINEER.
9. COMPLIANCE TO "TRENCH SAFETY ACT" IS REQUIRED FOR ALL EXCAVATIONS IN EXCESS OF 5 FEET DEEP.
10. GATE VALVES SHALL BE LOCATED ENTIRELY WITHIN THE PAVEMENT OR GRASS AND OUTSIDE OF CURBS AND SIDEWALKS.

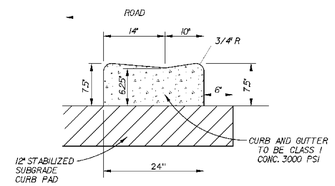


TYPE 'D' CURB

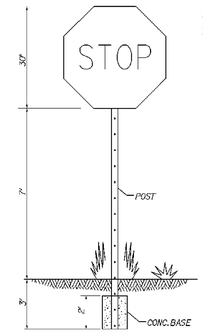


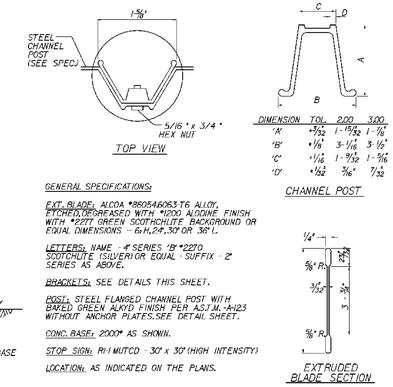
TYPE 'F' CURB AND GUTTER

NOTE: WHEN USED ON HIGH SIDE OF ROADWAY, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6, UNLESS OTHERWISE SHOWN ON THE PLANS.



DROP CURB DETAIL





GENERAL SPECIFICATIONS:

EXT. BLADE: ALCOA #6063A6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALODINE FINISH WITH #2017 GREEN SCOTHCHLITE BACKGROUND OR EQUAL DIMENSIONS - 6H, 2-X .50 OR 36" L.

LETTERS: NAME - 4" SERIES 'B' #2270 SCOTCHLITE (SILVER) OR EQUAL - SUFFIX - 2" SERIES AS ABOVE.

BRACKETS: SEE DETAILS THIS SHEET.

POST: STEEL FLANGED CHANNEL POST WITH BAKED GREEN ALKYD FINISH PER A.S.T.M.-A-123 WITHOUT ANCHOR PLATES. SEE DETAIL SHEET.

CONC. BASE: 2000# AS SHOWN.

STOP SIGN: R1-1 MUTCD - 30" x 30" (HIGH INTENSITY)

LOCATION: AS INDICATED ON THE PLANS.

TYPICAL STOP SIGN

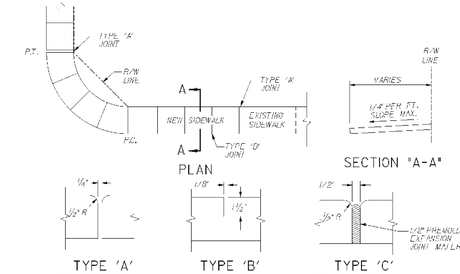


TABLE OF SIDEWALK THICKNESS - 'T'	
LOCATION	'T'
RESIDENTIAL AREAS	4"
AT DRIVEWAYS AND OTHER AREAS	6"

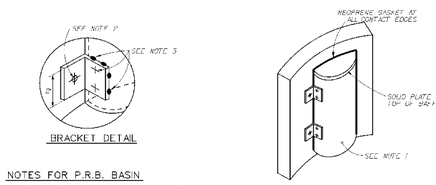
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS
'C'	* WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES

* AT THE DISCRETION OF THE ENGINEER

NOTES:
1. SUBGRADE TO BE A MINIMUM 4" OF CLEAN SAND OR SANDY LOAM COMPACTED TO 98% DENSITY AASHTO T-99.
2. SIDEWALKS TO BE PORTLAND CEMENT CONCRETE, MIN. 2500 PSI @ 28 DAYS.
3. SIDEWALKS TO BE BROOM FINISHED WITH EVEN, DUSTLESS SURFACE.
4. AT DRIVEWAY LOCATIONS, SIDEWALKS SHALL BE 6" THICK AND SHALL INCLUDE 6X6X10/10 WELDED WIRE MESH WITH 2" ON CENTER FROM THE BOTTOM AND END.

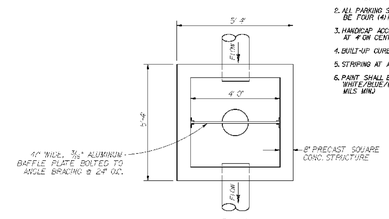
SIDEWALK DETAIL

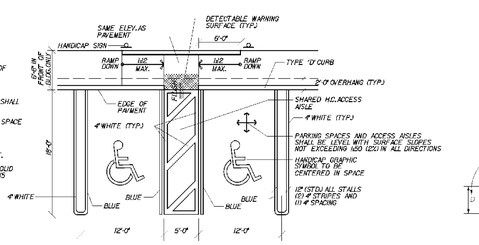
SECTION "A"



NOTES FOR P.R.B. BASIN

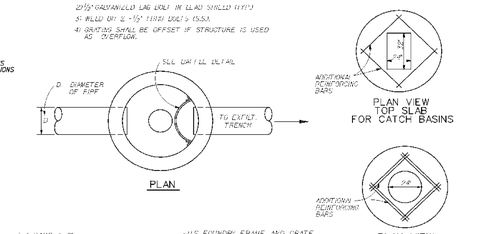
1) BAFFLE (1) TO BE A SECTION OF CMP (SEE IN PLAN). EDGE TOP OF BAFFLE SHALL BE TWICE THE OUTFALL PIPE SIZE.
2) 1/2" GALVANIZED LAG BOLT IN LEAD SHIELD (TYP.)
3) WELD OFF 2 - 1/2" THREADED RODS (TYP.)
4) BAFFLES SHALL BE OFFSET IF STRUCTURE IS USED AS OVERFLOW.

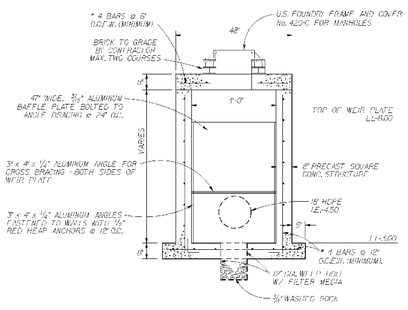




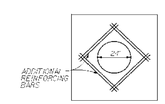
HANDICAP PARKING DETAIL
N.T.S.

NOTES:
1. ACCESSIBILITY TO AND WITHIN BUILDINGS, INCLUDING THE PLACEMENT OF RAMPS, SHALL CONFORM TO THE LATEST EDITIONS OF THE D.O.A. ACCESSIBILITY MANUAL, CHAPTER 553, PART V, OF THE FLORIDA STATUTES AND THE F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS.
2. ALL PARKING STALLS SHALL BE DOUBLE STRIPED AND ALL STRIPING SHALL BE FOUR (4) INCHES WIDE.
3. HANDICAP ACCESSWAY STRIPING SHALL BE LAID OUT ON A 45° ANGLE SPACE AT 4' ON CENTER AS MEASURED ALONG THE ACCESSWAY.
4. BUILT-UP CURB RAMPS SHALL NOT PROJECT INTO TRAFFIC LANES.
5. STRIPING AT ALL WALKWAYS IN THE PARKING AREAS SHALL BE PAINT.
6. PAINT SHALL BE APPLIED AT A RATE THICK ENOUGH TO PROVIDE SOLID WHITE/BLUE/BLACK LINES WITH NO LIGHT SPOTS OR PAINT SKIPS (15 MILS MIN.)

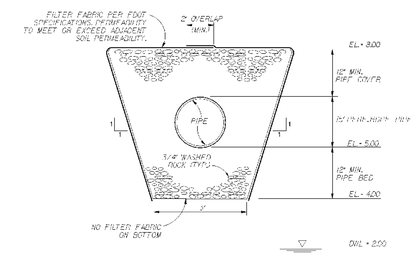




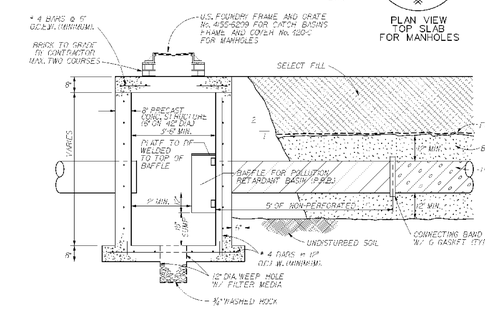
CONTROL STRUCTURE



PLAN VIEW TOP SLAB FOR MANHOLES



EXFILTRATION TRENCH SECTION



TYPICAL CATCH BASIN WITH EXFILTRATION TRENCH

SCHNARS ENGINEERING CORPORATION
949A Clint Moore Road
Boca Raton, Florida 33487
Certificate of Authorization #6640
Tel: (561) 241-6455
Fax: (561) 241-5182

OWNER: FRIGATE'S HOLDINGS LLC
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: FRIGATE'S RESTAURANT
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: CONSTRUCTION DETAILS

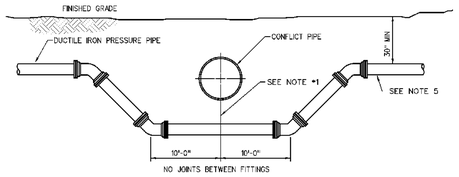
ORIGINAL: MAY 2010
REVISIONS:
1 7/13/10 PER VILLAGE OF NPB
2
3
4
5
6
7
8
9
10
11
12

SEAL

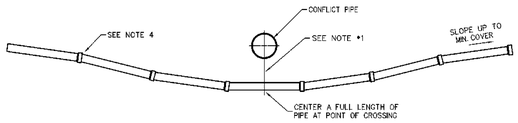
James W. Mohorovich, P.E.
Civil Engineer
Florida Registration No. 47066
(FOR T.E. ONLY)

JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 5 OF 8

SCHNARS
7/13/2010



FITTING TYPE



DEFLECTION TYPE

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. FOR VERTICAL SEPARATION SEE "WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT" DETAIL.

2. ONE OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED FROM FITTING TO FITTING FOR PIPE SIZES UP TO AND INCLUDING 12", FOR PIPE SIZES GREATER THAN 12" BOTH FORMS OF RESTRAINT SHALL BE USED.
   A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

3. THE DEFLECTION TYPE CROSSING IS PREFERRED, BUT IN INSTANCES WHERE THE FITTING TYPE DEFLECTION IS USED, 22 1/2 & 11 1/4 BENDS ARE PREFERRED.

4. DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.

5. PIPE SHALL BE RESTRAINED FOR A MINIMUM DISTANCE OF 60' FROM EACH TOP DEFLECTION. SEE "PIPE RESTRAINT TABLE" DETAIL FOR ADDITIONAL RESTRAINT DISTANCES FOR PIPE GREATER THAN 12".

Pressure Pipe Deflection

June 10, 2009

INSTALLATION PROTOCOL

1. All pipe is to be laid in a clean dry trench.

2. All muck and unsuitable materials encountered in trench bottom shall be removed and replaced with compacted granular material to 98% of maximum density per AASHTO T-180. Proctor and density test results shall be submitted to EOR with a copy to Authority.

3. All backfill shall be placed in 12 inch lifts and compacted by mechanical means to 98% of maximum density per AASHTO T-180 or as otherwise required by the permitting agency.

4. Utilities crossing road right-of-way shall be installed prior to road construction and backfilled and compacted within right-of-way limits in strict accordance with the directions of the EOR and requirements of all agencies of jurisdiction.

5. Embedment materials below pipe shall conform to Unified Soil Classification System (U.S.C.S.) Soil Classification Class for fills noted in ASTM D2321.

6. All lines under construction shall be plugged with a wing plug, and all pressure pipes are to be plugged with a mechanical plug or cap at the end of the working day to prevent ground water and potential contaminants from entering completed lines and lines under construction.

7. Above ground piping, including but not limited to, aerial crossings, lift station piping, fire lines, meter/backflow prevention device assemblies, etc. shall be flanged and be coated in the following manner:
   Sandblast and remove all paint and any loose material in accordance with SSPC-SP10. Sandblasting shall be performed using non-silica media. Paint all exterior ferrous metal surfaces. The manufacturer's recommendations for surface preparation, priming, recoating, etc. shall be strictly followed. Do not paint or coat any nameplates, brass or stainless steel surfaces. Contractor shall use the following paint system or approved equal.
   TNEMEC
   a. Primer: TNEMEC-MODIFIED POLYAMIDOAMINE EPOXY #135 (3.0 to 5.0 mils DFT) aluminum color
   b. Intermediate Coat: TNEMEC-MODIFIED POLYAMIDOAMINE EPOXY (3.0 to 5.0 mils DFT) off white color
   c. Finish Coat: Series 1074 Endura-Shield, DFT.
The finished coat of paint shall be green in color for sanitary sewer, lavender for reclaimed appurtenances and blue for potable water appurtenances.

8. All flanged pipe shall be caulked between each flange and threads with Sika 1 A urethane caulk.

9. All tie rods, bolts, nuts, etc. installed underground must be Cor Ten and shall be painted with Koppers 300-M or an Authority approved equal. Brass and stainless steel hardware is exempt from this requirement.

10. Coatings and linings damaged due mishandling or otherwise, must be replaced. Coating and linings damaged due to field cutting shall be repaired in strict accordance with the manufacturer's recommendations. This includes, but is not limited to, cement mortar and polyethylene pipe linings, Protecto 401, galvanized coatings, PVC fence coatings and other paint type coatings. Specific approval must be obtained from Authority prior to performing coating and lining repairs. The Authority will require inspections of all repairs.

11. All stainless steel nuts, bolts and hardware referenced in these standards, shall be SS 316 grade and shall be so stamped by the manufacturer to verify alloy. The use of any other stainless steel alloy will require specific approval by Authority. In general, stainless steel nuts, bolts and hardware are required in and around lift stations and for facilities installed over or under brackish or marine waters. This requirement applies to flange bolts and nuts on flanged piping, mounting brackets, all thread rod, anchor bolts, washers, clamps and other miscellaneous hardware. Anti-galling compound anti-seize lubricant shall be applied to the threads of all stainless steel bolts prior to installation.

Anti-seize lubricant shall be graphite 50 anti-seize by Loctite Corporation, 1000 anti-seize paste by Dow Corning, 2M Lube and anti-seize by 3M.

12. All rubber and synthetic elastomeric components of products that come in contact with potable water shall be manufactured with chloramine resistant elastomers and shall bear NSF approval.

13. All main, including fittings, shall be easily identifiable as to their contents and shall be color coded or marked using the universal color code of blue for water, green for sewer and lavender for reclaimed. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape is used to stripe pipe during installation of the pipe, the tape shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipes for pipes with an internal diameter of 24 inches or greater, tape shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.

Installation Protocol

June 10, 2009

PUSH ON JOINT PIPE RESTRAINT REQUIREMENTS AT FITTINGS, VALVES AND DEAD ENDS

PIPE SIZE	90° BEND	45° BEND	22½° BEND	11¼° BEND	TEE	REDUCER	VALVE	DEAD END
4"	54'	54'	39'	36'	54'	54'	72'	72'
6"	54'	54'	39'	36'	54'	54'	72'	72'
8"	54'	54'	39'	36'	54'	54'	72'	72'
10"	54'	54'	39'	36'	54'	54'	108'	108'
12"	72'	72'	54'	54'	72'	72'	108'	108'
14"	72'	72'	54'	54'	72'	72'	108'	108'
16"	72'	72'	54'	54'	72'	72'	154'	154'
18"	72'	72'	54'	54'	72'	72'	154'	154'
20"	90'	90'	54'	54'	90'	90'	154'	154'
24"	90'	90'	54'	54'	90'	90'	172'	172'
30"	90'	90'	54'	54'	90'	90'	180'	180'
36"	90'	90'	54'	54'	90'	90'	270'	270'
42"	108'	108'	54'	54'	108'	108'	270'	270'
48"	108'	108'	54'	54'	108'	108'	270'	270'
54"	108'	108'	54'	54'	108'	108'	270'	270'

MINIMUM LENGTH OF PUSH ON JOINT PIPE WITH SPECIAL RESTRAINING GASKETS

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. ALL BURIED PRESSURE MAINS SHALL INCLUDE A RESTRAINED JOINT SYSTEM. THE CONTRACTOR SHALL USE A DUCTILE IRON RESTRAINING SYSTEM AS MANUFACTURED BY EBAA IRON, INC. (MEGALUG) FOR FITTINGS AND VALVES AND FAST GRIP GASKETS (AMERICAN OR FIELD LOK GASKETS (U.S. PIPE) FOR PUSH ON JOINT PIPE.

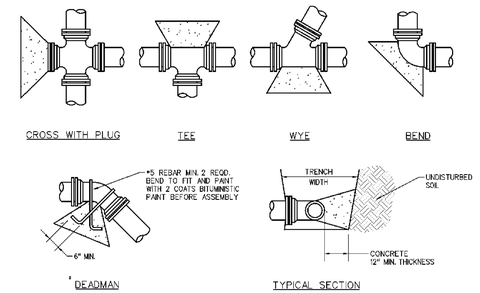
2. RESTRAINING LENGTHS SHOWN ARE THE MINIMUM LENGTH REQUIRED BASED ON A TEST PRESSURE OF 150 P.S.I.G. WITH A MINIMUM COVER OF 30".

3. THRUST BLOCKS SHALL ALSO BE REQUIRED AT ALL TIE-INS TO EXISTING LINES, ALL TAPPING TEES ON EXISTING LINES, ALL NEW HYDRANTS, ALL ABOVE GROUND ASSEMBLIES 3" AND LARGER AND MAINS GREATER THAN 12".

4. IF LENGTH BETWEEN MECHANICAL JOINT FITTINGS AND OR VALVES IS LESS THAN THE MINIMUM LENGTHS SHOWN IN THIS TABLE THE CONTRACTOR SHALL RESTRAIN THE ENTIRE LENGTH.

Pipe Restraint Table

June 10, 2009



ALL THRUST BLOCKS SHALL BE FORMED. LAID FORMS SHALL BE INSPECTED BY SUA PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY SUA PRIOR TO COVER-ING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTIONS (THRUST BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER CONCRETE SHALL HAVE 2500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS. AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUEEN OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

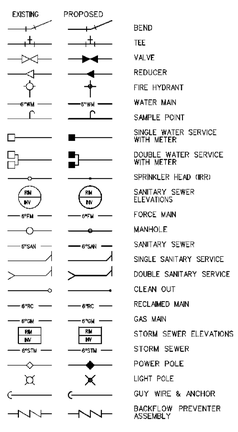
(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BEND, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 33% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES.
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	60.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	68.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

Thrust Blocks

June 10, 2009



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Symbols

June 10, 2009

STANDARD WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT

1. STORM SEWER, GRAVITY WASTEWATER, FORCE MAINS AND RECLAIMED WATER MAINS CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED BETWEEN GRAVITY SEWER OR STORM SEWER, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/GRAVITY SEWER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN SIX (6) FEET BETWEEN ANY TWO JOINTS. BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE SIX (6) INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/FORCE MAIN/RECLAIMED WATER MAINS CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION, IN ALL OF THE ABOVE CASES D.I.P. IS NOT REQUIRED FOR STORM SEWER PIPE.

2. FORCE MAINS CROSSING RECLAIMED WATER MAINS OR STORM SEWER SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE OUTSIDE OF THE RECLAIMED WATER MAIN OR STORM SEWER AND THE RECLAIMED WATER MAIN SHALL CROSS OVER THE FORCE MAIN.

3. AT THE UTILITY CROSSING DESCRIBED IN ITEMS 1 AND 2 ABOVE, ONE FULL LENGTH OF DUCTILE IRON WATER MAIN PIPE SHALL BE CENTERED SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE JOINTS. WHERE THIS IS NOT POSSIBLE, JOINTS SHALL BE AT LEAST THREE (3) FEET FROM STORM SEWERS AND SIX (6) FEET FROM GRAVITY SEWER MAINS, FORCE MAINS AND RECLAIMED WATER MAINS.

4. SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF 12" VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SEWER SERVICE LATERAL SHALL BE C-900 SDR 18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED, THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.

5. MAINTAIN MINIMUM TEN (10) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN OR FORCE MAIN, RECLAIMED WATER MAIN, STORM SEWER OR GRAVITY SEWER MAIN OR ON SITE SEWAGE DISPOSAL SYSTEMS. ADDITIONAL SEPARATION MAY BE REQUIRED AS OUTLINED IN SECTION II OF SUA STANDARDS.

Water, Reclaimed Water and Sewer Separation Statement

June 10, 2009

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. THIS METHOD SHALL BE COMPLIED WITH WHEN CONNECTING TO AN EXISTING WATER MAIN, (ONE THAT HAS ALREADY BEEN BACTERIOLOGICALLY CLEARED OR IS IN USE) WHETHER BY TAPPING TEE AND VALVE OR BY CONTINUATION OF A PLUGGED STUB OUT WITH AN EXISTING GATE VALVE.

2. THESE REQUIREMENTS ARE BASED ON PALM BEACH COUNTY HEALTH DEPARTMENT REQUIREMENTS.

3. WHEN A TAPPING TEE AND VALVE IS INSTALLED, A PRESSURE/LEAKAGE TEST SHALL BE PERFORMED ON THE ASSEMBLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE PRIOR TO PERFORMING THE ACTUAL TAP.

4. ALL TAPS ON PIPE SIX (6) INCH IN DIAMETER AND LARGER SHALL BE INSTALLED AT THE CENTER/MIDDLE OF A LENGTH OF PIPE.

5. DOUBLE VALVING PERMITS PHYSICAL CONNECTION TO AN EXISTING WATER MAIN WHEN USED IN CONJUNCTION WITH A BYPASS LINE.

6. A 2" BYPASS LINE (MAXIMUM) SHALL BE INSTALLED AS SHOWN BELOW PRIOR TO CANNON FLUSHING.

7. THE 2" TEE SHALL BE USED FOR FEEDING CHLORINE SOLUTION AND FOR ATMOSPHERIC VENT DURING PRESSURE/LEAKAGE TESTS.

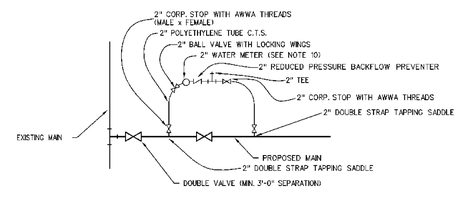
8. UNDER NO CIRCUMSTANCES SHALL VALVES BE OPERATED WITHOUT AN AUTHORIZED SUA REPRESENTATIVE PRESENT.

9. ALL WATER MAINS SHALL BE THOROUGHLY CANNON FLUSHED IN ACCORDANCE WITH SEACOAST SPECIFICATIONS PRIOR TO PRESSURE/LEAKAGE TESTING. THE PROCEDURE SHALL BE DONE ONLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE.

10. FOLLOWING INITIAL CANNON FLUSHING, ALL WATER FOR PRESSURE/LEAKAGE TESTING AND BACTERIOLOGICAL CLEARANCES MUST BE DRAWN FROM THE BYPASS LINE WITH METER AND REDUCED PRESSURE BACKFLOW PREVENTER IN PLACE. THE 2" INCH WATER METER SHALL BE PROVIDED BY SUA UPON APPLICATION BY EITHER THE CONTRACTOR OR DEVELOPER. ALL WATER USED FOR THE CONSTRUCTION OF THE WATER AND SEWER MAINS SHALL BE PAID FOR BY THE ABOVE PARTIES PRIOR TO ANY SERVICE BEING PROVIDED. METER, BALL VALVE, REDUCED PRESSURE BACKFLOW PREVENTER AND TEE SHALL INSTALLED AT LEAST 18" ABOVE EXISTING GRADE, SUPPORTED, AND PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE APPLICANT'S RESPONSIBILITY AND SHALL BE CHARGED ACCORDINGLY.

11. EXCEPT DURING CANNON FLUSHING VALVES SHALL NOT BE OPENED UNTIL AFTER AN APPROVED PRESSURE/ LEAKAGE TEST, BACTERIOLOGICAL CLEARANCE, CERTIFICATION BY THE ENGINEER OF RECORD, RELEASE FROM THE PALM BEACH COUNTY HEALTH DEPARTMENT AND APPROVAL BY SUA.

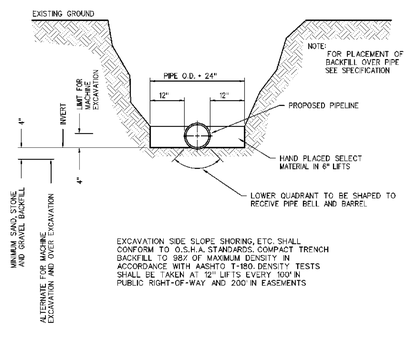
12. DISINFECTION AND BACTERIOLOGICAL CLEARANCES SHALL COMPLY WITH CURRENT AWWA PROCEDURES, PALM BEACH COUNTY HEALTH DEPARTMENT, AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.



Tapping and Main Clearing Procedure

June 10, 2009

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)



CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.

Standard Trenching Procedure

June 10, 2009

SCHNARS ENGINEERING CORPORATION
949A Clint Moore Road
Boca Raton, Florida 33487
Certificate of Authorization #6640
Tel: (561) 241-6455
Fax: (561) 241-5182

OWNER: FRIGATE'S HOLDINGS LLC
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: FRIGATE'S RESTAURANT
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: WATER & SEWER DETAILS

ORIGINAL: MAY 2010
REVISIONS: 1 2 3 4 5 6 7 8 9 10 11 12

SEAL

JAMES W. MOHNINGER, P.E.
Civil Engineer
Florida Registration No. 47266
(FOR S.E. FIRM)

JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 6 OF 8

J:\PALM BEACH\10125\DETAILS\DETAILS.DWG
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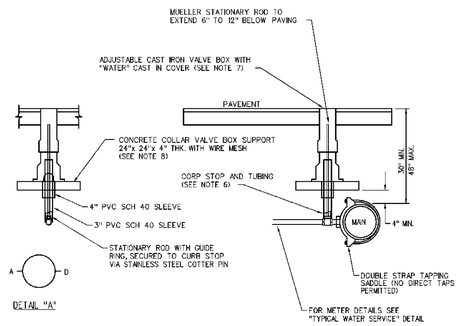


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT 90 33/64 FROM THE CENTERLINE AS SHOWN ON DETAIL "A".

2. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.

3. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER TUBE SIZE.

4. BOTH COPPER AND POLYETHYLENE TUBING SERVICE LINES SHALL BE CONTINUOUS FROM CURB STOP TO ANGLE METER STOP WITH NO FITTINGS IN BETWEEN.

5. TAPPING SADDLES TO HAVE AWWA THREADS.

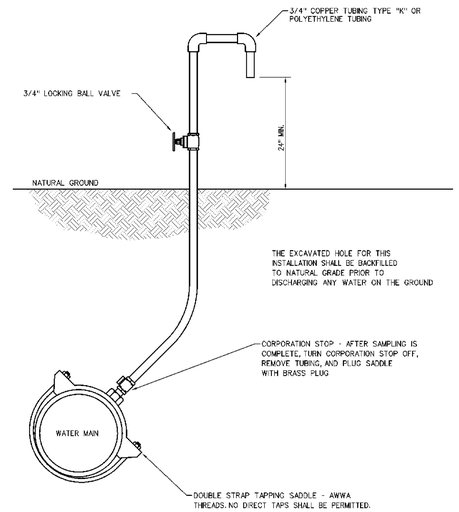
6. CORPORATION STOP AT THE MAIN TO HAVE MALE AWWA THREADS ON ONE SIDE AND BE COMPRESSION ON THE OTHER SIDE.

7. VALVE BOX SHALL BE 5 1/4" CAST IRON SCREW TYPE ADJUSTABLE.

8. CONCRETE COLLAR VALVE BOX SUPPORT TO BE PLACED ON COMPACTED SOIL TO SUPPORT VALVE BOX SO THAT A MINIMUM OF 4 INCHES EXISTS BETWEEN THE BOTTOM OF THE CONCRETE COLLAR AND THE TOP OF THE WATER MAIN.

Water Service Tap Under Pavement

June 10, 2009

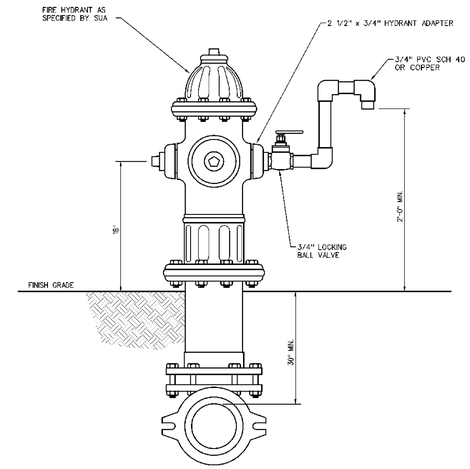


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. WHERE POSSIBLE, SERVICE TAPS OR FIRE HYDRANTS (SEE "SAMPLE POINT - FIRE HYDRANT" DETAIL) SHALL BE USED AS SAMPLING POINTS.

Sample Point - In Line

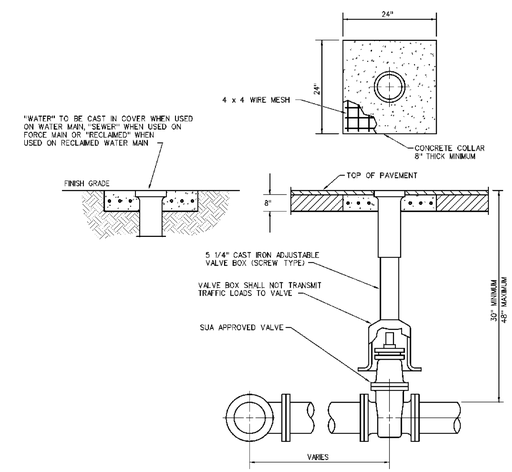
June 10, 2009



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Sample Point - Fire Hydrant

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

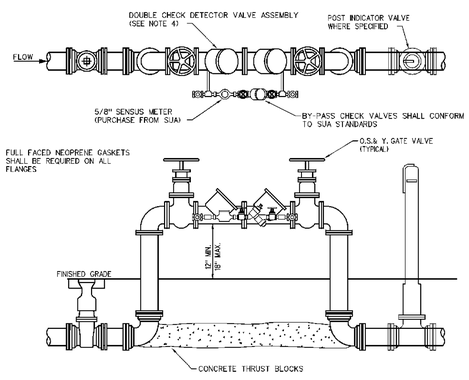
1. CONCRETE COLLAR MAY NOT BE REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO FINAL INSPECTION AND VALVE BOX LID IS AT FINISHED GRADE.

2. WHEN VALVE IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO 24" OF FINISHED GRADE. EXTENSION MUST BE SET SCREW TYPE AND ATTACHED TO OPERATING NUT.

3. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN D/A TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300 -M OR APPROVED EQUAL.

Typical Underground Valve Installation

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNIFLANGES PERMITTED.

2. PAINT THE ABOVE GROUND ASSEMBLY, INCLUDING ENTIRE LENGTH OF TIE RODS, IN ACCORDANCE WITH SUA CONSTRUCTION STANDARD SECTION II, ITEM 7, AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL OR BRASS FITTINGS.

3. WHEN PROTECTIVE PIPE STANCHIONS OR A SCREEN WALL IS REQUIRED, SEE "PROTECTIVE ENCLOSURES FOR ABOVE GROUND DEVICES" DETAIL.

4. APPROVED DOUBLE CHECK DETECTOR VALVE ASSEMBLIES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
   A.) AMES MODEL 3000 SSI
   B.) AMES MODEL 3000 SSR
   C.) WATTS MODEL 774 DCDA SERIES 994

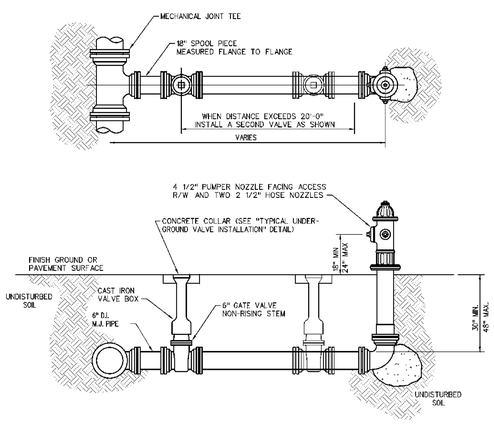
5. SPECIAL FIRE PROTECTION SYSTEMS USING INTERNAL PUMPS, TANKS, ETC. SHALL BE REQUIRED TO USE AN SUA APPROVED REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY.

6. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS.

7. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN D/A TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Above Ground Fireline

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. DRAINS OR WEEP HOLES ON HYDRANT BARREL SHALL BE PLUGGED.

2. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.

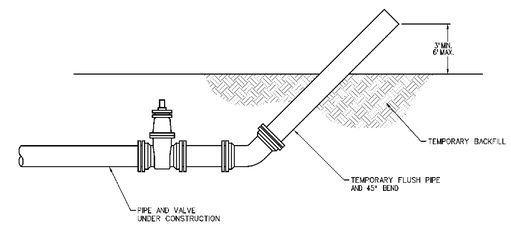
3. THRUST BLOCKS TO REST IN UNDISTURBED SOIL.

4. THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
   A) KENNEDY K-81-D
   B) AMERICAN DARLING B-84-B
   C) MUELLER SUPER CENTURION
   D) CLOW MEDALLION

5. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN D/A TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Typical Fire Hydrant Installation

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. TEMPORARY FITTINGS, PIPE, ETC. MAY BE NEEDED TO FACILITATE CANNON FLUSHING.

2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA, EXERCISE DUE CARE TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR CAUSE PROPERTY DAMAGE.

3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.

4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY SUA OF SUCH INTENDED WATER USE.

5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED SUA PERSONNEL.

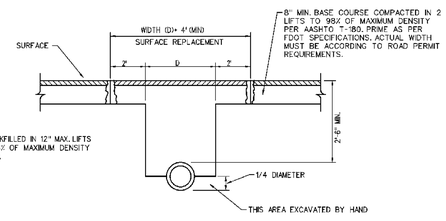
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF AN SUA REPRESENTATIVE.

7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.

8. THERE ARE SPECIAL REQUIREMENTS FOR CLEANING AND FLUSHING PIPE LARGER THAN 12".

Cannon Flushing Procedure

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.

2. BASE MATERIAL SHALL BE PLACED IN A MINIMUM OF 2 LIFTS AND THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.

3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.

4. SURFACE MATERIAL SHALL BE CONSISTENT WITH EXISTING SURFACE, WITH ASPHALT A MINIMUM OF 2" THICK.

5. A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN FOR EACH SIX (6") INCH LIFT OF SUBGRADE AND EACH OPEN CUT CROSSING. ROAD CROSSINGS GREATER THAN 24 FEET IN WIDTH SHALL REQUIRE ONE ADDITIONAL TEST SITE FOR EACH ADDITIONAL 12 FEET OF PAVEMENT. WHEN THE SPECIFIED COMPACTED BASE IS GREATER THAN SIX AND ONE-HALF (6 1/2") INCHES, THE BASE SHALL BE CONSTRUCTED IN TWO OR MORE COURSES. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO SUA UPON REQUEST. BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY PER AASHTO T-180.

6. ANY DAMAGE TO TRAFFIC SIGNALIZATION EQUIPMENT SHALL BE REPAIRED BY THE PALM BEACH TRAFFIC DIVISION AT THE CONTRACTORS EXPENSE.

7. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE PERMITTING AGENCY.

8. TEMPORARY ASPHALT PATCH MUST BE PLACE WITHIN 48 HOURS.

9. TRAFFIC AREAS OR WHERE SAFETY TO THE PUBLIC IS AT ISSUE A TEMPORARY ASPHALT PATCH MUST BE IMMEDIATELY PLACED.

Pavement Replacement

June 10, 2009

SCHNARS
ENGINEERING CORPORATION
949A Clint Moore Road
Boca Raton, Florida 33487
Certificate of Authorization #6640
Tel: (561) 241-6455
Fax: (561) 241-5182

OWNER: FRIGATE'S HOLDINGS LLC
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: FRIGATE'S RESTAURANT
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: WATER & SEWER DETAILS

ORIGINAL: MAY 2010
REVISIONS:
1 2 3 4 5 6 7 8 9 10 11 12

SEAL

James W. Mahoney, P.E.
Civil Engineer
Florida Registration No. 47266
(FOR S.E. FIRM)

JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 7 OF 8

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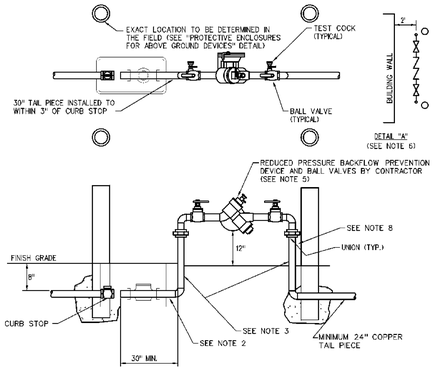


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.

2. IF THIS DISTANCE IS LESS THAN 6 FEET ONLY COPPER TUBING SHALL BE PERMITTED.

3. BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.

4. 1 1/2" AND 2" METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.

5. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
   A.) WATTS MODEL 919 3/4" TO 2"
   B.) AMES MODEL 400B 3/4" TO 2"

6. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MINIMUM OF 2' BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.

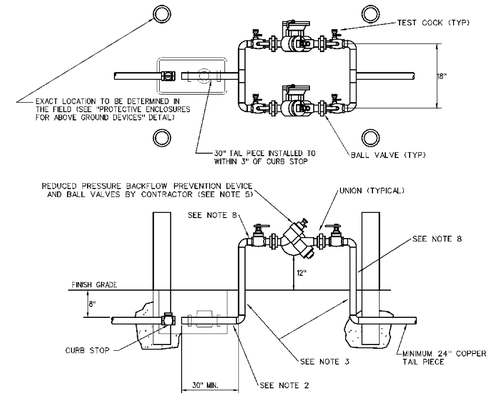
7. BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES.

8. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH STAINLESS STEEL UNISTRUT. RISERS TO BE SECURED TO UNISTRUT WITH 304 STAINLESS STEEL MOUNTING HARDWARE AND 14" NEOPRENE INSULATORS BETWEEN ALL DISSIMILAR METALS.

9. BACKFLOW DEVICES SHALL BE A MINIMUM OF 3' FROM BACK OF CURB.

Water Meter and Backflow Device - 3/4" to 2"

June 10, 2009



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4. 1 1/2" AND 2" METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.

5. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
   A.) WATTS MODEL 919 3/4" TO 2"
   B.) AMES MODEL 400B 3/4" TO 2"

6. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MINIMUM OF 2' BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.

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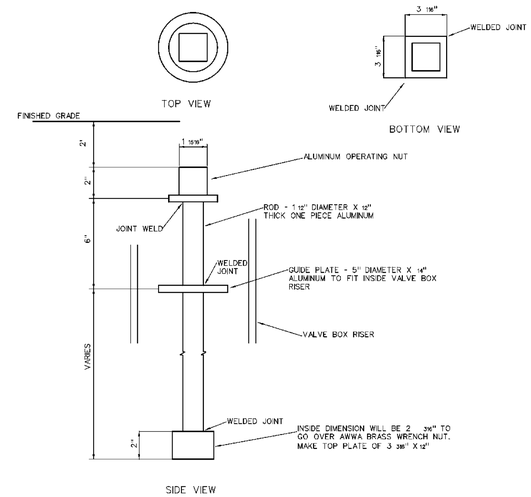
8. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH STAINLESS STEEL UNISTRUT. RISERS TO BE SECURED TO UNISTRUT WITH 304 STAINLESS STEEL MOUNTING HARDWARE AND 14" NEOPRENE INSULATORS BETWEEN ALL DISSIMILAR METALS. TWO UNISTRUTS PER BACKFLOW.

9. BACKFLOW DEVICES SHALL BE A MINIMUM OF 3' FROM BACK OF CURB.

Water Meter and Dual Backflow Device - 3/4" - 2"

June 10, 2009



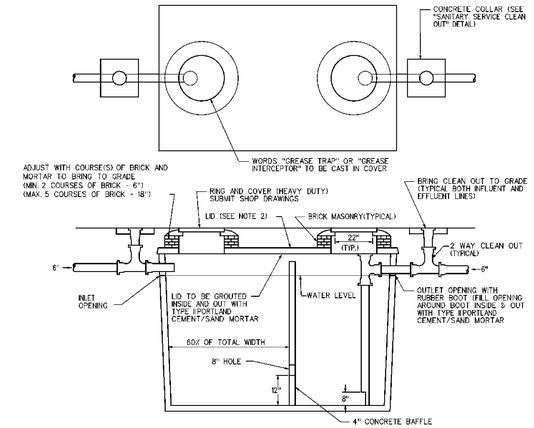
NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. EXTENSIONS ARE REQUIRED FOR VALVES EXTENDING FOR MORE THAN 4 FEET BELOW FINISHED GRADE.

2. ALL MATERIALS SHALL BE 6061 T-6 ALUMINUM.

Valve Extension

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. SHOP DRAWINGS FOR PRECAST TANKS SHALL BEAR THE FOLLOWING STATEMENT:"THIS CONCRETE STRUCTURE MEETS OR EXCEEDS ALL THE REQUIREMENTS FOR GREASE INTERCEPTORS/SEPTIC TANKS AS IN THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 10D-6 AND 64E-6, AND SUA "SPECIFICATIONS AND STANDARDS". THE SHOP DRAWINGS (3 COPIES MINIMUM) SHALL THEN BE SIGNED AND SEALED BY THE ENGINEER OF RECORD AND FORWARDED TO SUA FOR APPROVAL.

2. LID TYPES:
   A) 4" REGULAR LID
   B) 8" TRAFFIC BEARING LID

3. ALL PIPING SHALL BE SOLVENT WELD PIPE.

4. ALL TANKS IN TRAFFIC AREA SHALL BE H20 WHEEL LOAD BEARING.

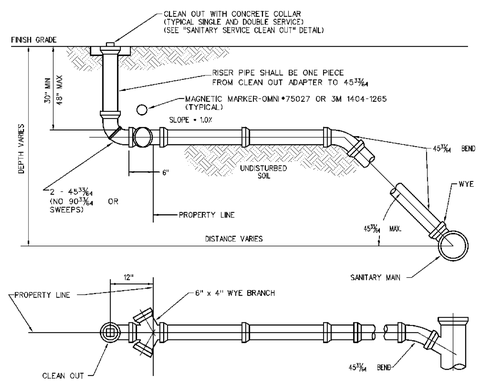
5. INSPECTION OF TANK REQUIRED BY SUA PRIOR TO PLACEMENT.

6. INSPECTION OF TANK REQUIRED BY SUA AFTER TANK IS PIPED.

7. TANKS IN SERIES SHALL HAVE BAFFLE IN LAST TANK ONLY.

Grease Trap

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2" x 2" TREATED WOOD STAKE AND AN E.M.S. SANITARY SEWER MARKER.

2. EACH SERVICE CONNECTION SHALL BE PLUGGED WATERTIGHT WITH AN APPROVED CAP OR PLUG.

3. CUT OFF BELL END WHEN USING FERNCO COUPLING FOR VCP (FOR EXISTING SERVICES ONLY)

4. FOR PVC INSTALLATIONS, CONNECT TO EXISTING "BELL END" AND CONNECT OPPOSITE END WITH PVC TO PVC KNOCK ON SLEEVE.

5. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON "PAVEMENT REPLACEMENT" DETAIL.

6. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO EACH SERVICE LATERAL AND GIVE TO ENGINEER FOR RECORD DRAWING PURPOSES.

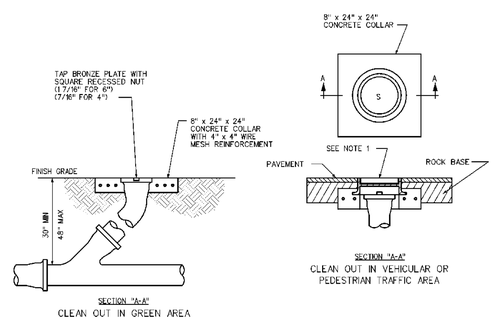
7. ANY DEVIATION FROM THESE METHODS MUST BE APPROVED BY SUA.

8. THE USE OF UNNECESSARY FITTINGS ON THE CUSTOMERS LINE TO REDUCE EXCAVATION EFFORTS WILL BE CAUSE FOR REJECTION.

9. THE USE OF 90 3/64 SWEEPS ON THE CUSTOMERS LINE IN LIEU OF 45 3/64 BENDS WILL REQUIRE AN ADDITIONAL CLEAN OUT AS SHOWN ON "SANITARY SERVICE CLEAN OUT DETAIL". THE CLEAN OUT SHALL BE ON THE HOUSE SIDE OF THE TOP SWEEP WITHIN 2' OF THE SWEEP.

Sewer Service Connection (Wye Branch)

June 10, 2009



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. U.S. FOUNDRY NO. 7521 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED, COVER TO BE CAST WITH "S" IN THE CENTER.

2. CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE OR EASEMENT LINE WHERE APPLICABLE.

3. STANDARD WYE SHALL BE USED AT CLEAN OUT.

Sanitary Service Clean Out

June 10, 2009

SCHNARS
ENGINEERING CORPORATION
949A Clint Moore Road
Boca Raton, Florida 33487
Certificate of Authorization #6640
Tel: (561) 241-6455
Fax: (561) 241-5182

OWNER: FRIGATE'S HOLDINGS LLC
100 EBBTIDE DRIVE
NORTH PALM BEACH, FLORIDA

PROJECT: FRIGATE'S RESTAURANT
VILLAGE OF NORTH PALM BEACH FLORIDA

TASK: WATER & SEWER DETAILS

ORIGINAL: MAY 2010
REVISIONS:
1 2 3 4 5 6 7 8 9 10 11 12

SEAL

James W. Mahoney, P.E.
Civil Engineer
Florida Registration No. 47066
(FOR T.E. FIRM)

JOB NO. 10125
DRAWN RAD
DESIGNED JWM
CHECKED JTS
Q.C. JWM
SHEET 8 OF 8

7/17/2010 3:07:59 PM
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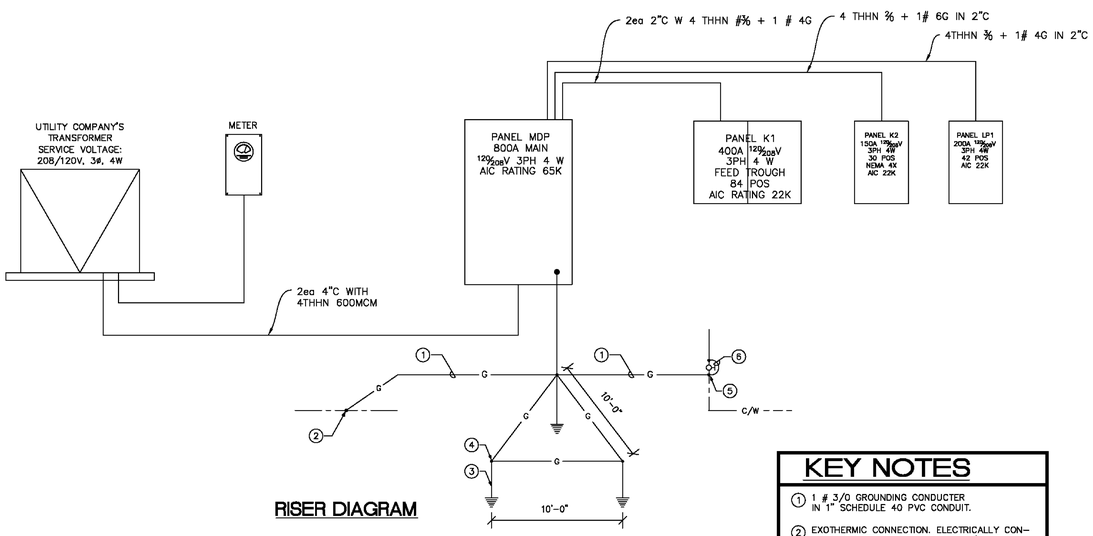

RISER DIAGRAM

KEY NOTES

1. 1 # 3/0 GROUNDING CONDUCTER IN 1" SCHEDULE 40 PVC CONDUIT.
2. EXOTHERMIC CONNECTION. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR (20FT MIN. LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
3. 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE.
4. EXOTHERMIC CONNECTION. (TYPICAL)
5. MAKE CONNECTION TO METALLIC COLD WATER ENTRANCE PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP.
6. PROVIDE (1) 3/0 BONDING JUMPER AROUND FIRST VALVE.
7. 1-# 3/0 GROUNDING CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT TO NEAREST EFFECTIVELY GROUNDED BUILDING STRUCTURAL STEEL MEMBER. BOND TO COLD WATER PIPING IN ADJACENT AREA.

CODES THAT APPLY TO THIS PROJECT:
2007 FBC W/ 2009 AMMENDMENTS
2008 NFPA-70
2002 NFPA-72
2003-NFPA-101

ELECTRIC SYMBOLS LEGEND

- DUPLEX RECEPTACLE
- GFI DUPLEX RECEPTACLE
- SWITCH
- 3-WAY SWITCH
- DIMMER
- RECESSED FLUORESCENT LAMP
- REC. FLUORESC. LAMP W/BATTERY BACK UP
- EXIT/EMERGENCY LIGHT COMBINATION
- EMERGENCY LIGHT
- EXIT LIGHT
- FUSED DISCONNECT
- J BOX
- CEILING FAN

SHORT CIRCUIT CALCULATIONS

TRANSFORMER IS 300 KVA (VERIFY WITH FPL)

IMPEDANCE (Z%) 1.11%

MULTIPLIER 100/Trasnfr. Z%
MULTIPLIER 90.09

I SHORT CIRCUIT =Ifl x MULTIPLIER
TRANSF. FULL LOAD 833 AMPS

Isc 75,045.0 AVAILABLE AMPS
FEEDER 2 600 MCM /PHASE R= 0.0223 ohms/1000ft
f= (1.732xLxIsc)/ (CxNxE)
L= LENGTH FROM TRANSFORMER TO PANEL
I= LOAD IN AMPS
C= 1/(OHM/ft)
N= NUMBER OF CONDUCTORS PER PHASE
E= LINE TO LINE VOLTAGE

L 70 FTS
I 800 MAX
C 44,843.05
N 2
E 208

f= 0.4877

M= (1/(1+f))
M 0.672

Isc 50,442.85 AMPS

MDP TO BE RATED FOR 65,000 AMPS AIC

ELECTRICAL SHEET INDEX

E-0	ELECTRICAL NOTES, RISER DIAGRAM
E-0.1	PANEL SCHEDULE
E-1	POWER PLAN
E-1.2	ROOF POWER PLAN
E-2	LIGHTING PLAN
E-4	PARKING LIGHTING POWER PLAN

ELECTRICAL NOTES

1. SCOPE OF WORK INCLUDES FURNISHING AND INSTALLING FIRST-CLASS WORKING SYSTEMS, TESTED READY FOR OPERATION, COMPLETE WITH LABOR, MATERIALS, APPARATUS, TRANSPORTATION AND TOOLS REQUIRED FOR THE INSTALLATION IN CONFORMANCE WITH DRAWINGS AND SPECIFICATIONS.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCPETED BY ENGINEER/ARCHITECT.
3. COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE(NEC), UL AND ALL LOCAL CODES HAVING JURISDICTIONAL AUTHORITY.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
6. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
7. COORDINATE WORK CLOSELY WITH ALL TRADES. CONSULT PLANS OF ALL OTHER TRADES FOR COORDINATION AND FOR RELATED AND ADJOINING WORK. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILTY OF THE ELECTRICAL CONTRACTOR.
   REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
   REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING EQUIPMENT.
8. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
   a. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
   b. PLUG-IN BREAKERS ARE ACCEPTABLE.
   c. CIRCUIT BREAKERS USED AS SWITCHES IN FLOURESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD"
   d. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
   e. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES
   f. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
   g. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
10. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 16" A.F.F. TO TOP OF BOX, AND UNLESS NOTED OTHERWISE, VERTICALLY MOUNTED.
11. ALL LIGHT SWITCHES TO BE AT 48" A.F.F. TO TOP OF BOX.
12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS.
13. ALL WIRING SHALL BE IN EMT CONDUIT, MINIMUM SIZE 1/2 INCH WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC. ALL CONDUITS IN WET OR DAMP LOCATIONS SHALL BE RIGID GALVANIZED STEEL. ALL OTHERS MAY BE EMT UNLESS OTHERWISE INDICATED.
    a. AT THE OPTION OF THE CONTRACTOR, AND IF LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF FLEXIBLE METAL CONDUIT, ARMORED CABLE, OR METAL-CLAD CABLE, THEN THE CONTRACTOR MAY USE THIS WIRING METHOD IN COMPLIANCE WITH APPLICABLE CODES. FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING.
    b. USE MAXIMUM 6 FOOT LENGTHS OF FLEXIBLE CONDUIT FOR FINAL CONNECTIONS TO LUMINAIRES, FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUIDTIGHT TYPE IN WET OR DAMP LOCATIONS. INSTALL SEPERATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
14. WIRE SHALL BE COPPER, 600 VOLT INSULATION, MINIMUM AWG. #12, TYPE THW, THWN, THHN, OR XHHW, AS APPLICABLE. SIZES SHALL NOT BE LESS THAN INDICATED. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG.. CONDUCTOR FOR BRANCH CIRCUITS OF 120 VOLTS MORE THAN 100 FEET LONG AND OF 277 VOLTS MORE THAN 230 FEET LONG, FROM PANEL TO LOAD, SHALL NOT BE SMALLER THAN #10 AWG.
15. THE CONTRACTOR SHALL CONFIRM WITH THE ELECETRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.
16. ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

E&C JOB# 10-1676

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	ES	ESH

E&C Engineers
Cert. of Auth # 26558
2755 Vista Parkway Suite I-3
West Palm Beach, FL 33411
Tel (561) 712 1149
email: ed@ecengineers.com

Eduardo (Ed) Samour,P.E.
Registered Electrical Engineer
P.E. # 41186
Date: _____

Fagan
Eugene R Fagan III Architect #11668
13411 Fox Croft Lane
Palm Beach Gardens, Fl 33418
(561) 385-4514
Eugene@FaganArchitect.com

Copyrite 2010

01 January, 2000

Consultant
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No.	Description	Date

Frigates Holdings,LCC
Frigates Restaurant

400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

ELECTRICAL NOTES, RISER DIAGRAM

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH
	E-0
Scale	AS NOTED

PANEL MDP

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	65000
MINIMUM BUS CAPACITY (A):	800 A	NOTES:	----
MAIN O.C. DEVICE (A):	800 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		B		C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3,5	PANEL K1	400	3	31105	5410					3	150	PANEL K2	2,4,6
1,3,5	PANEL K1	400	3			31219	4535			3	150	PANEL K2	2,4,6
1,3,5	PANEL K1	400	3					31265	2595	3	150	PANEL K2	2,4,6
7,9,11	PANEL LP1	200	3	11108	----					----	----	----	----
7,9,11	PANEL LP1	200	3			7810	----			----	----	----	----
7,9,11	PANEL LP1	200	3					8708	6333	3	60	RTU 1–1	12,14,16
13,15,17	RTU 1–2	150	3	15240	6333					3	60	RTU 1–1	12,14,16
13,15,17	RTU 1–2	150	3			15240	6333			3	60	RTU 1–1	12,14,16
13,15,17	RTU 1–2	150	3					15240	0	1	20	BREAKER PROVISION	18
19	BREAKER PROVISION	20	1	0	0					1	20	BREAKER PROVISION	20
21	BREAKER PROVISION	20	1			0	0			1	20	BREAKER PROVISION	22
23	BREAKER PROVISION	20	1					0					
				CONNECTED LOAD PHASE TOTALS (VA)									
				69196		65137		64141					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	17.7	1.25	22.1
Kitchen Equipment – Non–Dwelling Unit	87.7	0.65	57.0
Motors	8.6	1.00	8.6
Motors (Largest)	5.0	1.25	6.2
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	1.6	0.50	0.8
Non continuous	3.2	1.00	3.2
Cooling and Heating	64.7	1.00	64.7
TOTAL:	198.5		172.6
LOAD (AMPS):	550.9		479.2

DEMAND LOAD	172.6 KVA
SPARE CAPACITY	115.6 KVA
SPARE CAPACITY	320.8 AMPS
SPARE CAPACITY	40 %
PHASE BALANCE	
A TO B	94 %
B TO C	98 %
C TO A	93 %

PANEL LP1

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	22000
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	----
MAIN O.C. DEVICE (A):	200 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		B		C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	OUTSIDE GFI REC.	20	1	500	720					1	20	GENERAL USE RECEPTACLES	2
3	GENERAL USE RECEPTACLES	20	1			750	1200			1	20	DEDICATED CIRCUIT SOUND EQ.	4
5	GFI RECEPTACLES	20	1					540	1200	1	20	DEDICATED CIRCUIT SOUND EQ.	6
7	HAND DRYER	20	1	1600	1200					1	20	OUTSIDE SIGN	8
9	HAND DRYER	20	1			1600	1500			1	20	FLOOR RECEPTACLES	10
11,13	SITE LIGHTING	20	2					600	300	2	20	SITE LIGHTING	12,14
11,13	SITE LIGHTING	20	2	600	300					2	20	SITE LIGHTING	12,14
15,17	SITE LIGHTING	20	2			150	----			----	----	----	----
15,17	SITE LIGHTING	20	2					150	1500	1	20	DEDICATED RECEPTACLES (BAND)	18
19	ROOF TOP GFI REC.	20	1	200	1500					1	20	DEDICATED RECEPTACLES (BAND)	20
21	WATER HEATER CONTROLS	20	1			250	360			1	20	OFFICE RECEPTACLES	22
23	OFFICE LIGHTS	20	1					580	1018	1	20	KITCHEN LIGHTS	24
25	KITCHEN LIGHTS	20	1	798	1140					1	20	DINING ROOM LIGHTS	26
27	CHANDELIERS	20	1			500	600			1	20	CEILING FAN	28
29	CEILING FAN	20	1					600	840	1	20	SCONCES	30
31	SCONCES	20	1	1500	1050					1	20	REST ROOM LIGHTS	32
33	TRACK LIGHTS	20	1			500	400			1	20	BAR LIGHTS	34
35	FASCIA SIGN	20	1					1200	180	1	20	GFI RECEPTACLE	36
37	----	20	1	0	0					1	20	----	38
39	----	20	1			0	0			1	20	----	40
41	----	20	1					0	0	1	20	----	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				11108		7810		8708					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	14.0	1.25	17.5
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	0.4	0.50	0.2
Non continuous	3.2	1.00	3.2
TOTAL:	27.6		30.9
LOAD (AMPS):	76.7		85.9

DEMAND LOAD	30.9 KVA
SPARE CAPACITY	41.1 KVA
SPARE CAPACITY	114.1 AMPS
SPARE CAPACITY	57 %
PHASE BALANCE	
A TO B	70 %
B TO C	90 %
C TO A	78 %

NOTE:
ALL WIRING IS AWG # 12 IN ½"C UNLESS OTHERWISE NOTED ON THE PLANS.

PANEL K1

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	22000
MINIMUM BUS CAPACITY (A):	400 A	NOTES:	----
MAIN O.C. DEVICE (A):	400 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		B		C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	BOTLE COOLER	20	1	625	1200					1	20	BLENDER	2
3	BOLTE COOLER	20	1			625	1200			1	20	BLENDER	4
5	GLAS FROSTER	20	1					750	1200	1	20	BLENDER	6
7	P.O.S.	20	1	500	750					1	20	GENERAL USE RECEPTACLE	8
9,11	GLASSWASHER	20	2			1560	1900			1	20	SMOKE OVEN/SMOKER	10
9,11	GLASSWASHER	20	2					1560	1500	1	20	HEAT LAMPS	12
13	DROP–IN HOT WELL	20	1	800	1000					1	20	GENERAL USE RECEPTACLE	14
15	DROP–IN HOT WELL	20	1			800	1500			1	20	TEA MAKER	16
17	GENERAL USE RECEPTACLE	20	1					1000	3000	2	40	COFEEMAKER	18,20
19	GENERAL USE RECEPTACLES	20	1	1500	3000					2	40	COFEEMAKER	18,20
21,23	FOOD WARMER	20	2			1102	1102			2	20	FOOD WARMER	22,24
21,23	FOOD WARMER	20	2					1102	1102	2	20	FOOD WARMER	22,24
25,27	FOOD WARMER	20	2	1102	1200					1	20	REFRIGERATOR	26
25,27	FOOD WARMER	20	2			1102	800			1	20	SANDWICH/SALAD REFRIGERATOR	28
29	WORK TABLE	20	1					1560	850	1	20	UNDERCOUNTER REF.	30
31	ELECTRIC FOOD WARMER	20	1	1130	1560					1	20	PIZZA PREP. REFRIGERATOR	32
33	PIZZA PREP. REFRIGERATOR	20	1			1560	300			1	20	LETTUCE CRISPER	34
35	UNDER COUNTER REFRIG.	20	1					780	1100	1	20	REACH–IN REFRIGERATOR	36
37	UNDERCOUNTER FREEZER	20	1	975	820					1	20	DEEP FRYER	38
39	GAS CONVECTION OVEN	20	1			1080	830			1	20	REACH–IN REFRIGERATOR	40
41	COOLER/FREEZER LIGHTS	20	1					448	225	1	20	WALK–IN COOLER COIL FAN	42
43	KEG COOLER COIL FAN	20	1	225	1100					1	20	REACH–IN REFRIGERATOR	44
45	P.O.S.	20	1			500	940			2	20	WALK–IN FREEZER COIL FAN	46,48
47,49	WALK –IN REFRIGERATOR C/U	20	2					1380	940	2	20	WALK–IN FREEZER COIL FAN	46,48
47,49	WALK –IN REFRIGERATOR C/U	20	2	1380	1380					2	20	KEG COOLE C/U	50,52
51,53	FREEZER C/U	30	2			2060	1380			2	20	KEG COOLE C/U	50,52
51,53	FREEZER C/U	30	2					2060	1720	2	30	REMOTE BEV. COOLING SYSTEM	54,56
55,57	ICE MACHINE	30	2	2310	1720					2	30	REMOTE BEV. COOLING SYSTEM	54,56
55,57	ICE MACHINE	30	2			2310	685			3	20	KEF–1	58,60,62
59,61,63	KEF–2	20	3					900	685	3	20	KEF–1	58,60,62
59,61,63	KEF–2	20	3	900	685					3	20	KEF–1	58,60,62
59,61,63	KEF–2	20	3			900	1273			3	20	KSF–1	64,66,68
65,67	ICE MACHINE (FUTURE)	30	2					2310	1273	3	20	KSF–1	64,66,68
65,67	ICE MACHINE (FUTURE)	30	2	2310	1273					3	20	KSF–1	64,66,68
69	WAREWASHING MACHINE	40	1			3600	1660			3	30	GARBAGE DISPOSER	70,72,74
71	HOT FOOD TABLE	30	1					2160	1890	3	30	GARBAGE DISPOSER	70,72,74
----	----	----	----	----	1660					3	30	GARBAGE DISPOSER	70,72,74
75	HOOD LIGHTS	20	1			450	0			1	20	----	76
77	----	20	1					0	0	1	20	----	78
79	----	20	1	0	0					1	20	----	80
81	----	20	1			0	0			1	20	----	82
83	----	20	1					0	0	1	20	----	84
				CONNECTED LOAD PHASE TOTALS (VA)									
				31105		31219		31265					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	2.0	1.25	2.4
Kitchen Equipment – Non–Dwelling Unit	77.6	0.65	50.4
Motors	8.6	1.00	8.6
Motors (Largest)	5.0	1.25	6.2
Receptacles (0 – 10 KVA)	0.5	1.00	0.5
TOTAL:	93.6		68.2
LOAD (AMPS):	259.8		189.2

DEMAND LOAD	68.2 KVA
SPARE CAPACITY	75.9 KVA
SPARE CAPACITY	210.8 AMPS
SPARE CAPACITY	53 %
PHASE BALANCE	
A TO B	100 %
B TO C	100 %
C TO A	99 %

PANEL K2

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 4X
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	22000
MINIMUM BUS CAPACITY (A):	150 A	NOTES:	----
MAIN O.C. DEVICE (A):	150 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		B		C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	BOTTLE COOLER	20	1	850	1200					1	20	BLENDER STATION	2
3	BOTTLE COOLER	20	1			625	1200			1	20	BLENDER STATION	4
5	BOTTLE COOLER	20	1					825	500	1	20	P.O.S.	6
7,9	GLASS WASHER	20	2	1560	500					1	20	GEN USE RECEPTACLE	8
7,9	GLASS WASHER	20	2			1560	750			1	20	MUG FROSTER	10
11	GFI RECEPTACLES	20	1					720	750	1	20	MUG FROSTER	12
13	TIKI BAR LIGHTS	20	1	1000	300					1	20	CEILING FANS	14
15	BATHROOM LIGHTS	20	1			400	0			1	20	----	16
17	----	20	1					0	0	1	20	----	18
19	----	20	1	0	0					1	20	----	20
21	----	20	1			0	0			1	20	----	22
23	----	20	1					0	0	1	20	----	24
25	----	20	1	0	0					1	20	----	26
27	----	20	1			0	0			1	20	----	28
29	----	20	1					0	0	1	20	----	30
				CONNECTED LOAD PHASE TOTALS (VA)									
				5410		4535		2595					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	1.7	1.25	2.1
Kitchen Equipment – Non–Dwelling Unit	10.1	0.65	6.6
Receptacles (0 – 10 KVA)	0.7	1.00	0.7
TOTAL:	12.5		9.4
LOAD (AMPS):	34.8		26.2

DEMAND LOAD	9.4 KVA
SPARE CAPACITY	44.6 KVA
SPARE CAPACITY	123.8 AMPS
SPARE CAPACITY	83 %
PHASE BALANCE	
A TO B	84 %
B TO C	57 %
C TO A	48 %

E&C JOB# 10-1676

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	ES	ESH

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No.	Description	Date

Frigates Holdings,LCC
Frigates Restaurant

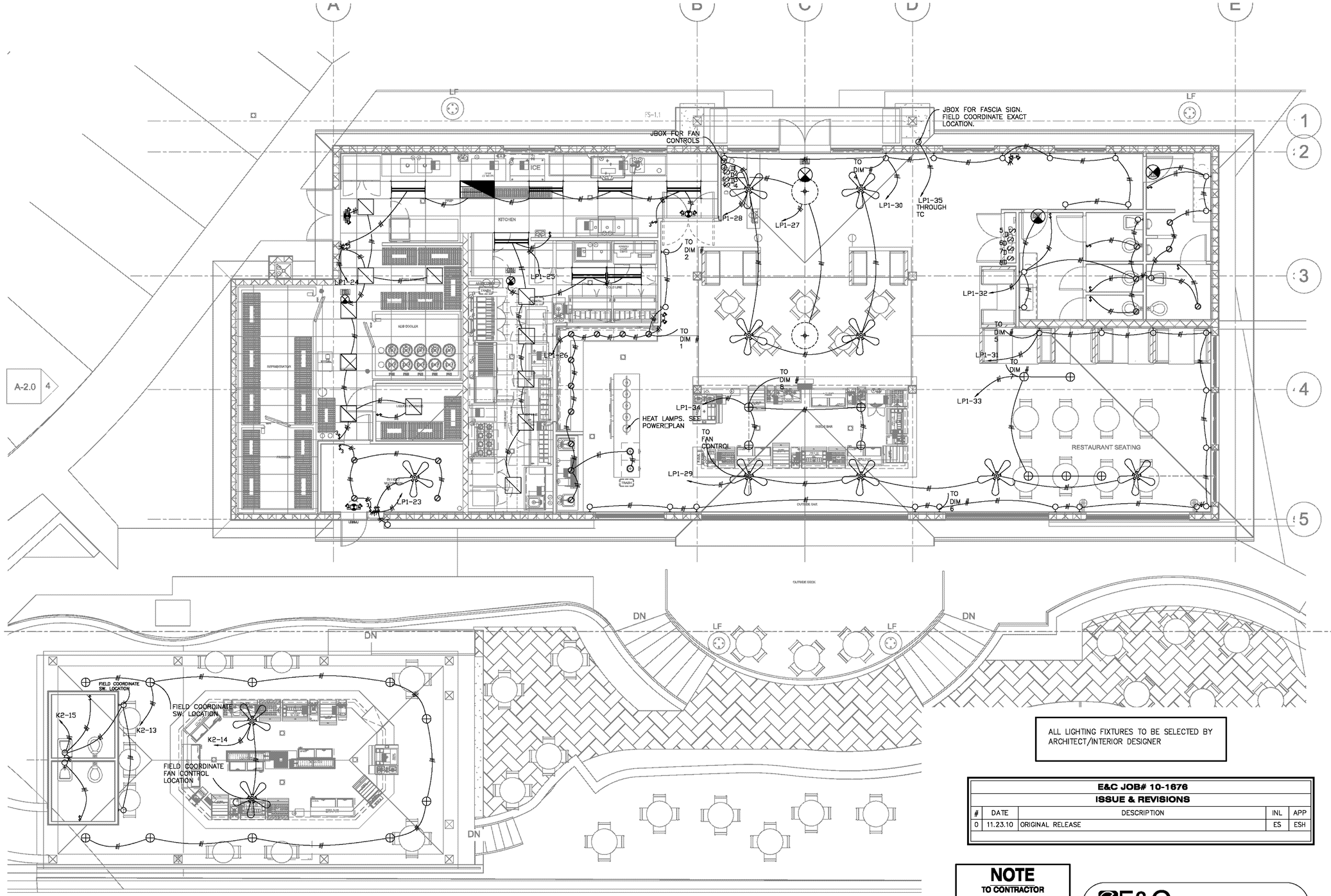
400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

PANEL SCHEDULE

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH

E-0.1

Scale	AS NOTED



LIGHTING PLAN

3/16" = 1ft

ALL LIGHTING FIXTURES TO BE SELECTED BY ARCHITECT/INTERIOR DESIGNER

E&C JOB# 10-1676				
ISSUE & REVISIONS				
#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	ES	ESH

NOTE
TO CONTRACTOR

ALL EXIT AND EMERGENCY LIGHTS ARE TO BE CONNECTED AHEAD OF ANY SWITCH, LIGHTING CONTACTOR OR OCCUPANCY SENSOR

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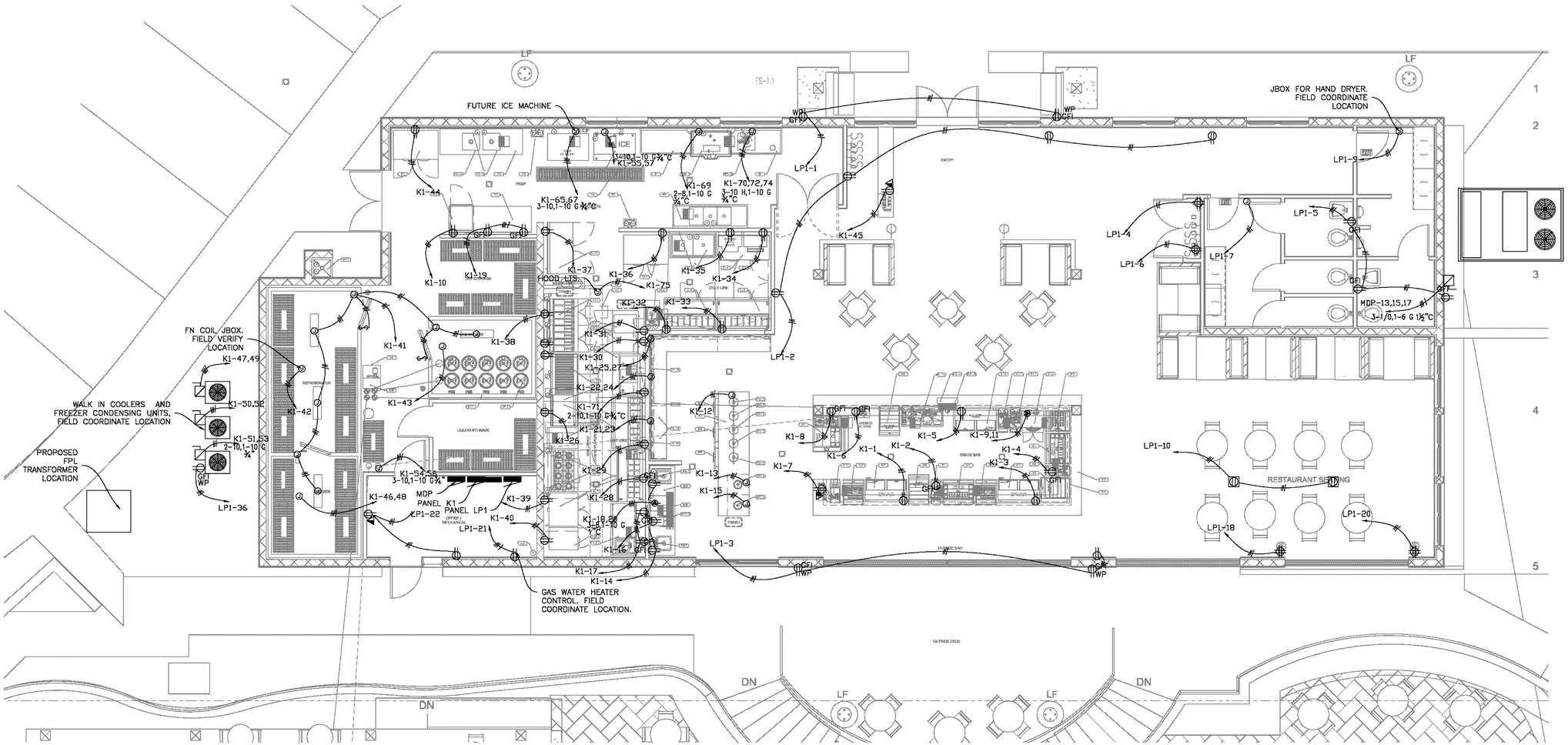
No.	Description	Date

Frigates Holdings,LCC
Frigates Restaurant

400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

LIGHTING PLAN

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH
	E-2
Scale	AS NOTED

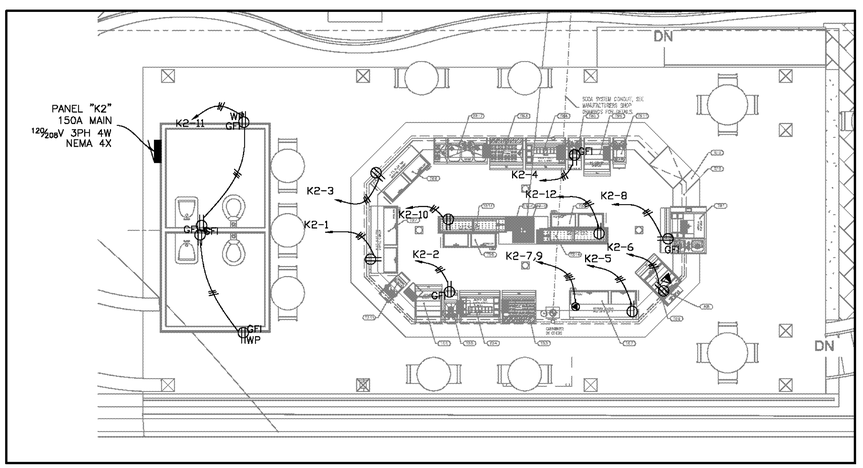


POWER PLAN

3/16" = 1ft

NOTE!
ALL 15A AND 20A 120V RECEPTACLES IN KITCHEN AREA MUST BE GFI PROTECTED AS PER NEC 210.(8)B(2)

NOTE!
ALL BREAKERS FEEDING LOAD UNDER HOOD MUST BE SHUNT TRIP.



TIKI BAR POWER PLAN

3/16" = 1ft

E&C JOB# 10-1676				
ISSUE & REVISIONS				
#	DATE	DESCRIPTION	INL	APP
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No.	Description	Date

Frigates Holdings,LCC
Frigates Restaurant

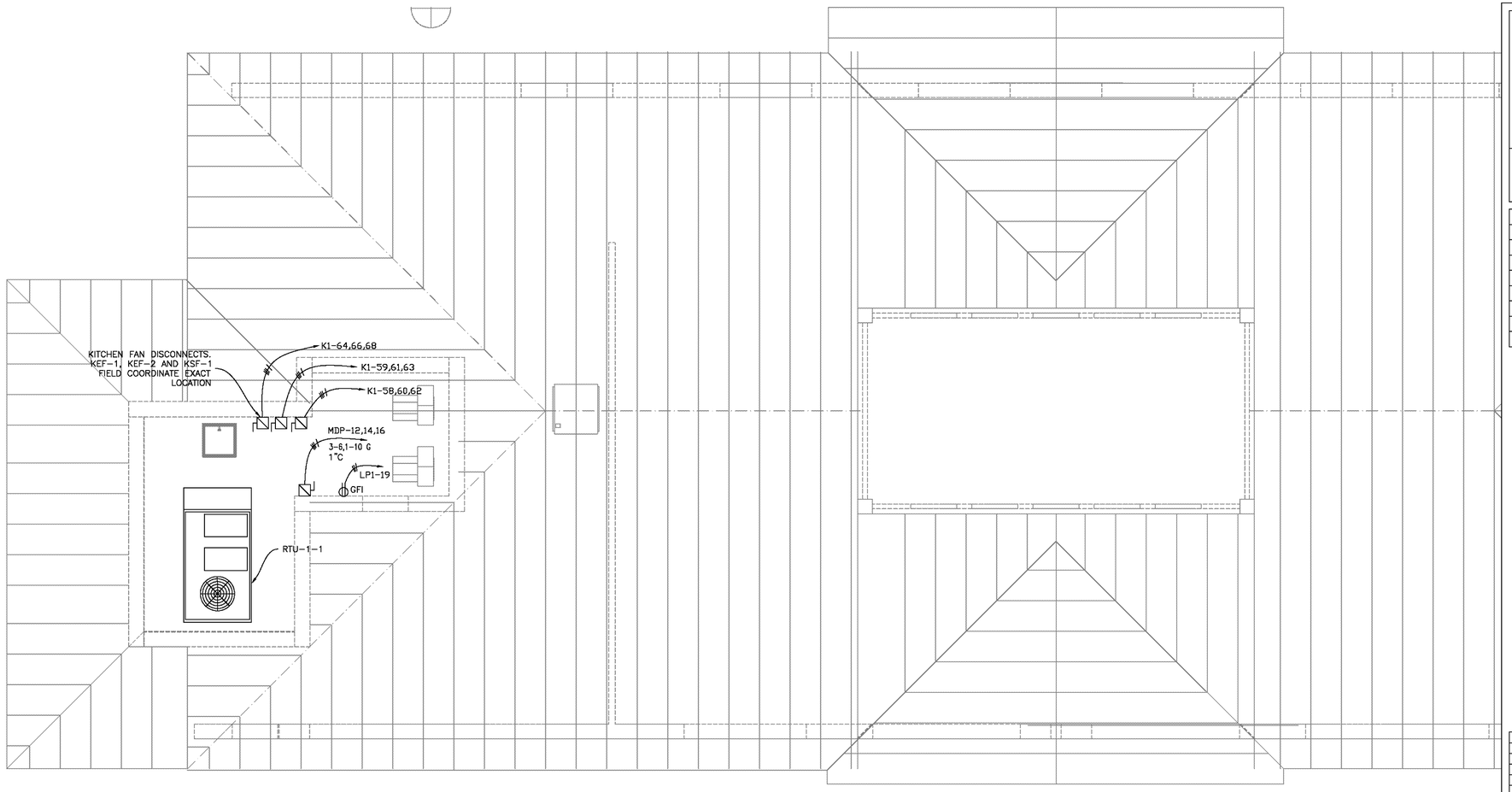
400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

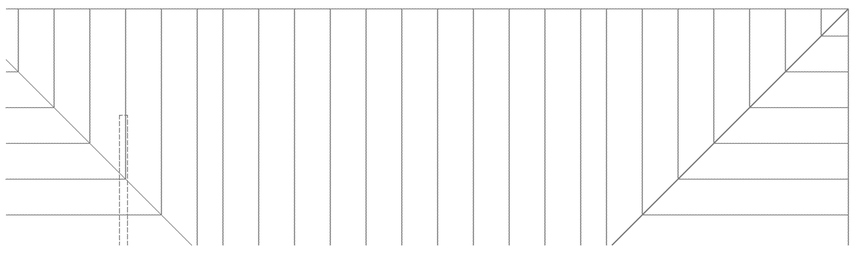
POWER PLAN

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH

E-1.0

Scale	AS NOTED





LF

LF

ROOF POWER PLAN

3/16" = 1ft

E&C JOB# 10-1676				
ISSUE & REVISIONS				
#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	ES	ESH

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No.	Description	Date

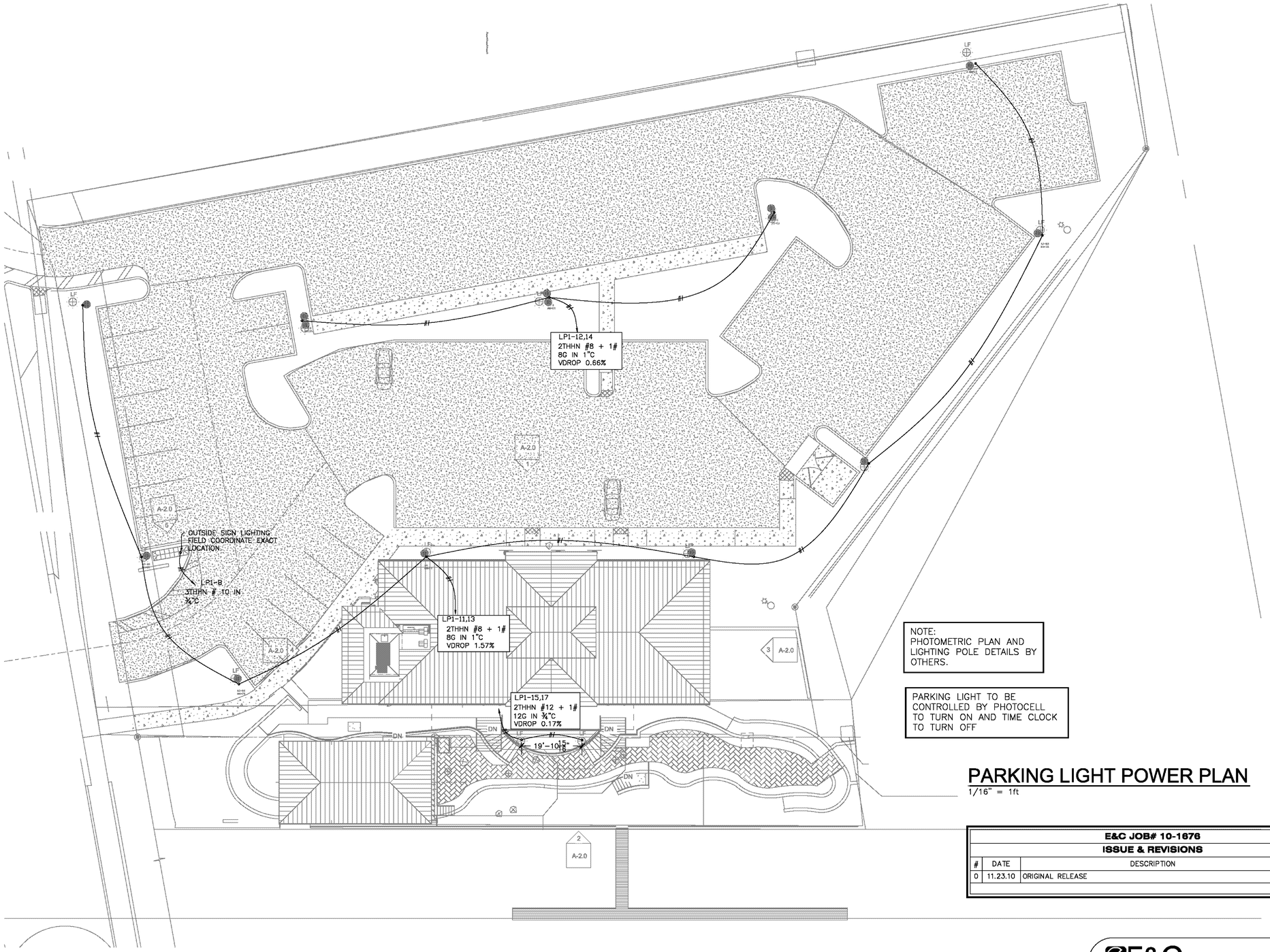
Frigates Holdings,LCC
Frigates Restaurant
400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

ROOF POWER PLAN

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH

E-1.2

Scale	AS NOTED



NOTE:
PHOTOMETRIC PLAN AND LIGHTING POLE DETAILS BY OTHERS.

PARKING LIGHT TO BE CONTROLLED BY PHOTOCELL TO TURN ON AND TIME CLOCK TO TURN OFF

PARKING LIGHT POWER PLAN

1/16" = 1ft

E&C JOB# 10-1676				
ISSUE & REVISIONS				
#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	ES	ESH

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No.	Description	Date

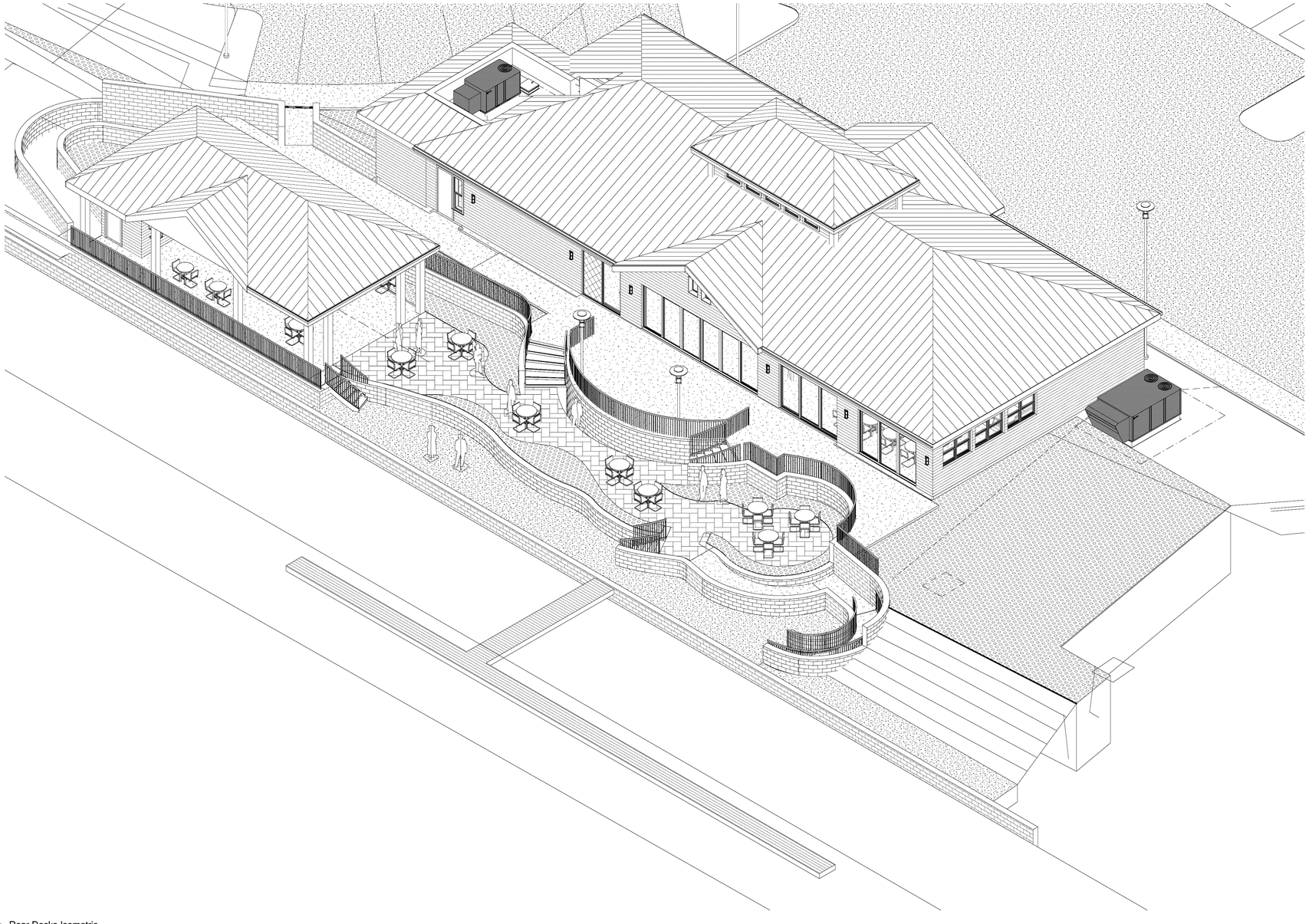
Frigates Holdings,LCC
Frigates Restaurant
400 US HIGHWAY 1 NORTH PALM BEACH, FL 33408

PARKING LOT LIGHTING POWER PLAN

Project number	10-1676
Date	11-22-2010
Drawn by	ES
Checked by	ESH

E-4.0

Scale	AS NOTED



1 Rear Decks Isometric

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No.	Description	Date

Frigates Holdings LLC

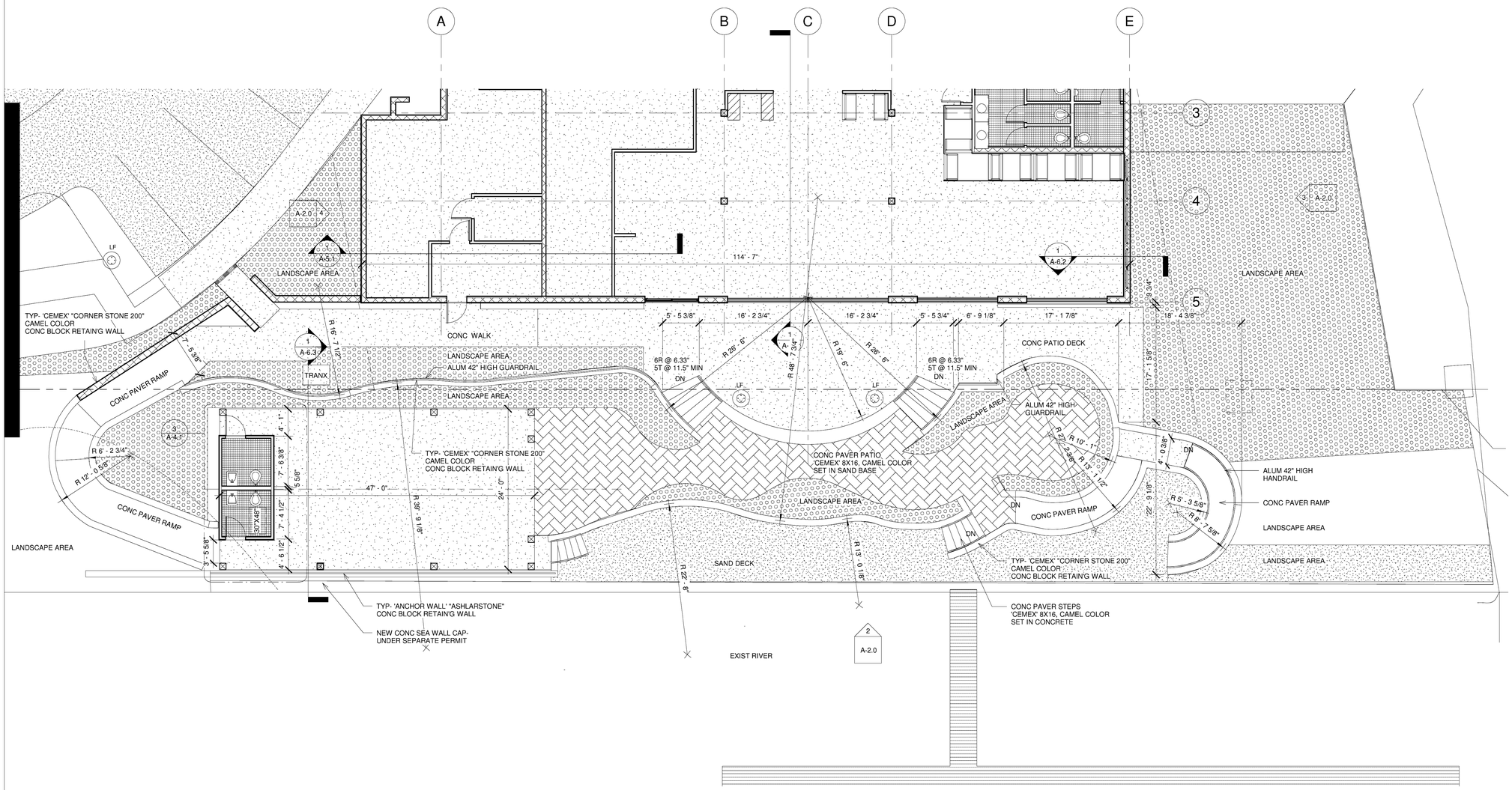
Frigates Restaurant

Rear Decking

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

L-1.0

Scale



1 Tiki Deck Architectural Plan
1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

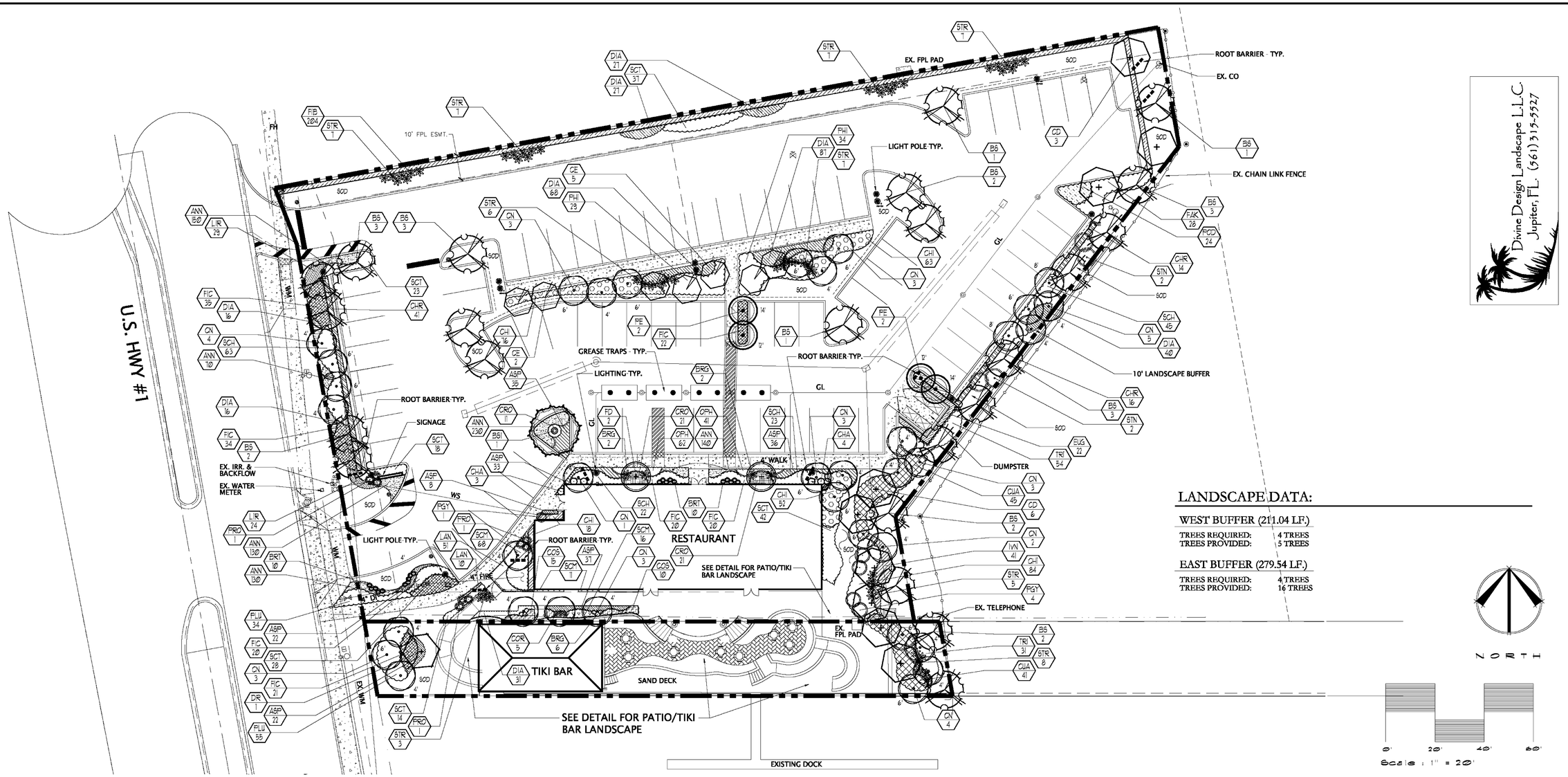
Tiki Deck Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

L-2.0

Scale 1/8" = 1'-0"

BY	REVISIONS	DATE
WED	REVISIONS AS PER DRC COMMENTS	7-15-10
WED	REVISIONS AS PER PLANNING BOARD COMMENTS	8-9-10
WED	REVISIONS AS PER RE-DESIGN OF REAR DECK	11-23-10



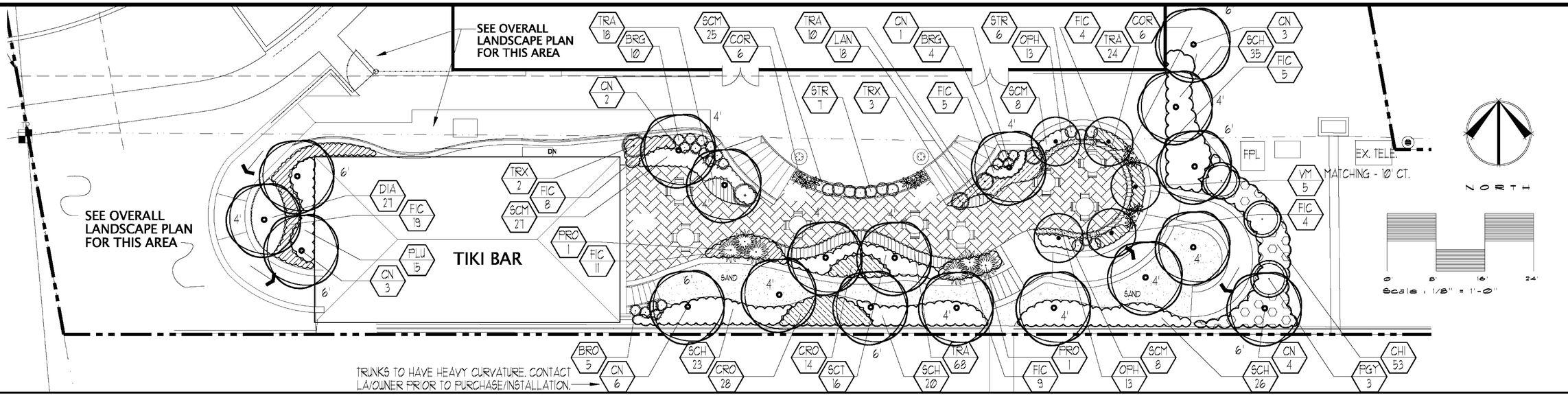
LANDSCAPE DATA:

WEST BUFFER (211.04 LF.)

TREES REQUIRED: 4 TREES
TREES PROVIDED: 5 TREES

EAST BUFFER (279.54 LF.)

TREES REQUIRED: 4 TREES
TREES PROVIDED: 16 TREES



TRUNKS TO HAVE HEAVY CURVATURE. CONTACT LA/OWNER PRIOR TO PURCHASE/INSTALLATION.

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DESIGN AND ENTITLEMENT CONSULTANTS, LLC.

U.S. HIGHWAY 1 PROPERTY
FRIGATES HOLDINGS LLC.
VILLAGE OF NORTH PALM BEACH, FLORIDA

LANDSCAPE PLAN

SCALE:	AS-SHOWN
CHECKED BY:	WED/RMB
DRAWN BY:	WED
DATE:	05.26.10
FILE:	FR_HOLDINGS_LP_11-23-10

SHEET
LSP.1
1 OF 2 SHEETS

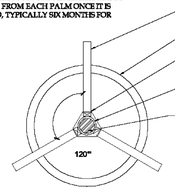
RLA SEAL

SMALL PALM STAKING PLAN

(I.E. FAN PALMS, BOTTLE PALMS, ANY PALM UNDER 8' C.T., ETC.)

NOTE: ALL PALM SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH PALM ONCE IT IS ESTABLISHED, TYPICALLY SIX MONTHS FOR PALMS.

NTS.



(3) 2" X 4" WOOD BRACES. STAKE OUTSIDE PLANTING HOLE ZONE.

OUTSIDE EDGE OF PLANTING SAUCER.

(3) WOOD BATTENS STRAPPED TO TRUNK WITH METAL BANDS. ATTACH WOOD BRACES TO BATTENS TO AVOID TRUNK DAMAGE.

WRAP TRUNK WITH BURLAP FOR PROTECTION AGAINST WOOD BATTENS AND STAKING BRACES.

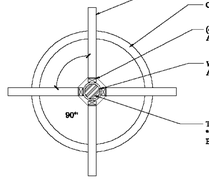
PALM OR TREE TRUNK (SET VERTICAL AND PLUMB, TYP.). * SEE PLAN IF SPECIAL SETTING/LEANING DIRECTIONS EXIST FOR PALMS.

LARGE PALM OR TREE STAKING PLAN

(I.E. ROYAL PALMS, DATE PALMS, MULTI-TRUNK PALMS, LIVE OAKS, DAHOON HOLLIES, ANY HEAVY CALIPER TREE TRUNKS, ETC.)

NOTE: ALL TREE/PALM SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE/PALM ONCE IT IS ESTABLISHED. TYPICALLY SIX MONTHS FOR SHADE TREES OR ONE YEAR FOR PALMS.

NTS.



(4) 2" X 4" WOOD BRACES. STAKE OUTSIDE PLANTING HOLE ZONE.

OUTSIDE EDGE OF PLANTING SAUCER.

(4) WOOD BATTENS STRAPPED TO TRUNK WITH METAL BANDS. ATTACH WOOD BRACES TO BATTENS TO AVOID TRUNK DAMAGE.

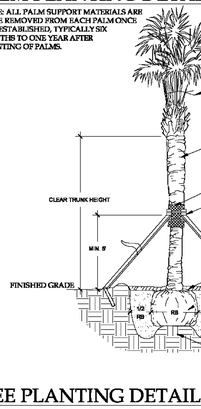
WRAP TRUNK WITH BURLAP FOR PROTECTION AGAINST WOOD BATTENS AND STAKING BRACES.

TREE OR PALM TRUNK (SET VERTICAL AND PLUMB, TYP.). * SEE PLAN IF SPECIAL SETTING OR LEANING DIRECTIONS EXIST FOR TREES.

PALM PLANTING DETAIL

NOTE: ALL PALM SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH PALM ONCE IT IS ESTABLISHED, TYPICALLY SIX MONTHS TO ONE YEAR AFTER PLANTING OF PALMS.

NTS.



FOR BARE ROOT, FIELD DUG, OR BALL AND BURLAP SPECIMEN PALMS: FRONDS SHALL REMAIN TIED FOR 3 MONTHS AFTER PLANTING. FOR CONTAINER GROWN TREES, SHIPPING FROND TIES MAY BE REMOVED AFTER INSTALLATION. TIES SHALL BE ORGANIC TWINE ONLY.

FOR BOOTED TRUNK PALMS, TRUNKS SHALL HAVE CLEAN INTACT BOOTS FIRMLY ATTACHED TO THE PALM TRUNK. FOR SLICK TRUNK PALMS, TRUNK SHALL BE CLEAR AND FREE FROM DEFECTS AND SCARS.

BURLAP WRAP TRUNK WITH 2 LAYERS OF BURLAP UNDER BRACES, TO PROTECT TRUNK.

2" X 4" BATTEN BLOCKS WITH 2" X 4" WOOD STAKING BRACES. USE: STEEL BANDING TO WRAP BLOCKS AROUND PALM TRUNK. USE: 200 NAILS TO NAIL ANCHOR BLOCKS TO STAKING BRACES (SEE STAKING PLANS FOR NUMBER OF REQUIRED BRACES). *NO NAILS SHALL PIERCE THE PALM TRUNK.

APPLY SAFETY FLAGGING TO STAKING.

SET PALM ROOT BALL AT FINISHED GRADE.

PROVIDE A 3" BERMED SAUCER ABOVE THE FINISHED GRADE WITH A 3" LAYER OF MELALEUCA MULCH (OR EQUAL). EXTEND MULCH BEYOND BERM.

2" X 4" X 24" MIN. WOOD STAKES. ANCHOR TREE BRACES WITH WOOD STAKES. INSTALL STAKE BRACES OUTSIDE TEMPORARY SAUCER AND BELOW GRADE.

BACKFILL SHALL BE CLEAN, SALT FREE SAND AND PEAT MOSS MIXTURE AT 3:1 RATIO. ALL BACKFILL SHALL BE WATER-JETTED FOR FIRM COMPACTION.

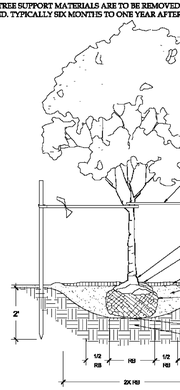
DISTANCE AROUND THE ROOT BALL SHALL BE 1/2 THE WIDTH OF THE ROOTBALL, OR 12" MIN. CLEARANCE.

TAMP BOTTOM OF PLANTING HOLE TO MINIMIZE SETTLING.

TREE PLANTING DETAIL

NOTE: ALL TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS ESTABLISHED. TYPICALLY SIX MONTHS TO ONE YEAR AFTER PLANTING FOR SHADE TREES.

NTS.



NEVER CUT TERMINAL LEADER. THIN BRANCHES AND FOLIAGE AS DIRECTED BY LANDSCAPE ARCHITECT OR CERTIFIED ARBORIST.

FLEXIBLE GUYING MATERIAL. LOCATE ABOVE FIRST LATERAL BRANCH. AVOID OVER-TIGHTENING TIES TO PREVENT NATURAL SWAY OF TREE.

SAFETY FLAGGING

WOODEN STAKES. SET STAKES OUTSIDE OF PLANTING SAUCER AT A MIN. DEPTH OF 2 FEET.

TRUNK FLARE OR TOP ROOT VISIBLE ON SURFACE. DO NOT BURY ROOT IN MULCH.

SET ROOT BALL SLIGHTLY ABOVE GRADE (10% MAXIMUM, OR 2" ABOVE FINISHED GRADE).

3" SHREDDED MELALEUCA MULCH (OR EQUAL). WITH 3" BERMED PLANTING SAUCER (6" TOTAL HEIGHT) ABOVE THE FINISHED GRADE. EXTEND MULCH BEYOND BERM. PULL MULCH AWAY FROM TRUNK FLARE A MINIMUM OF 3".

BACKFILL HOLE WITH APPROVED SOIL MIX REFER TO SPECIFICATIONS FOR PLANTING MIX WATER JET ALL BACKFILL FOR FIRM COMPACTION.

REMOVE ROOT BALL COVERING. CUT BACK WIRE BASKETS BELOW TOP HALF OF THE ROOT BALL. FOLD BACK BURLAP COVERING MATERIALS BELOW TOP HALF OF ROOT BALL. COMPLETELY REMOVE SYNTHETIC BURLAP COVERING MATERIALS.

TAMP BOTTOM OF PLANTING HOLE TO MINIMIZE SETTLING.

PROVIDE A PLANTING HOLE A MINIMUM OF 3 TIMES THE DIAMETER OF THE ROOT BALL ON THE SURFACE AND TWO TIMES THE ROOT BALL DIAMETER AT THE BASE.

SHRUB AND GROUNDCOVER PLANTING DETAIL

NOTES: ALL DIMENSIONS AND NOTES ARE TYPICAL.

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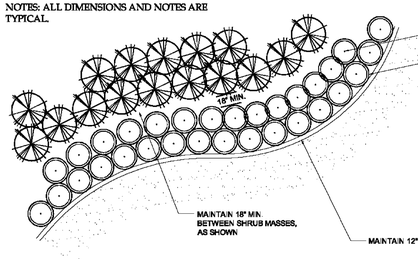


REMAINING SHRUBS FILLED IN BEHIND FRONT SHRUBS

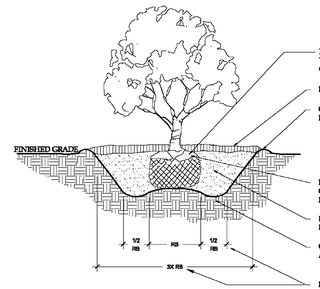
LAYOUT SHRUBS AT BED EDGE FIRST TO ESTABLISH CONTINUOUS LINE. ALLOW BEST FACE OF SHRUB TO FACE FRONT OF PLANTING BED.

MAINTAIN 18" MIN. BETWEEN SHRUB MASSES, AS SHOWN

MAINTAIN 12" AT PLANT BED EDGE

SHRUB PLANTING DETAIL

NTS.



PLANT ROOTBALL MINIMUM OF 1" ABOVE FINISHED GRADE, WITH A MAXIMUM OF 10% OF ROOTBALL EXPOSED ABOVE GRADE.

PROVIDE 3" PLANTING SAUCER

COVER WITH 3" MAXIMUM OF MELALEUCA MULCH OR EQUAL. PULL MULCH AWAY FROM STEM OF SHRUB A MINIMUM OF 3".

REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL. COMPLETELY REMOVE ANY SYNTHETIC WRAPPING MATERIALS.

BACKFILL PLANTING HOLE WITH APPROVED PLANTING MIX. REFER TO SPECIFICATIONS FOR PLANTING MIX.

GENTLY COMPACT BOTTOM OF PLANTING HOLE, AND WATER JET TO MINIMIZE PLANT SETTLING.

PROVIDE A PLANTING HOLE WITH A MINIMUM OF 3 TIMES THE DIAMETER OF THE ROOT BALL ON THE SURFACE AND TWO TIMES THE ROOT BALL DIAMETER AT THE BASE.

GROUNDCOVER DETAIL

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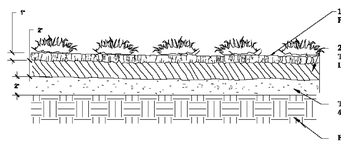

1" OF SHREDDED MELALEUCA MULCH (OR EQUAL) PLACED BETWEEN PLANTS ABOVE EXISTING SOIL LEVEL.

2" OF 1/4" MULCH PLACED ON TOP OF TILLED SOIL. TILL MULCH 2"-4" INTO PREVIOUSLY TILLED SOIL. LEVEL TO FINISHED GRADE BY HAND RAKING.

TILL SOIL TO A MINIMUM DEPTH OF 4" BELOW THE EXISTING SOIL LEVEL.

EXISTING SOIL.

ROOT BARRIER DETAILS

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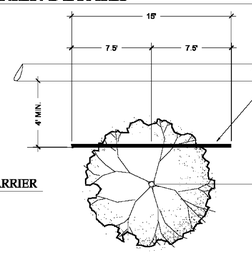
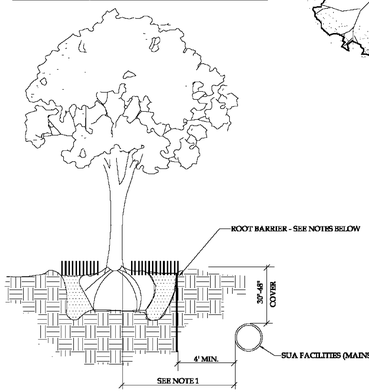


WATER AND/OR SEWER FACILITIES (I.E. MAINS, SERVICES, AND/OR LATERALS)

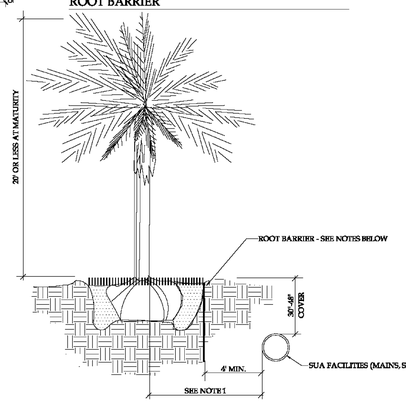
APPROVED ROOT BARRIER

SMALL TREE/PALM WITH ROOT BARRIER



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. THIS DISTANCE SHALL BE 10' MINIMUM WITH ROOT BARRIER AND 15' MINIMUM IF NO ROOT BARRIER IS USED.
2. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL SEACOAST FACILITIES.
3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH SEACOAST AND INSPECTED BY SEACOAST PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
4. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
6. LARGE PALM TREES INCLUDE ROYAL, WASHINGTON, BISMARK, DATE PALMS AND SIMILAR SIZED SPECIES.

CANOPY TREE/LG. PALM/EXOTIC TREE WITH ROOT BARRIER



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. THIS DISTANCE SHALL BE 7' MINIMUM WITH ROOT BARRIER AND 10' MINIMUM IF NO ROOT BARRIER IS USED.
2. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL SEACOAST FACILITIES.
3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH SEACOAST AND INSPECTED BY SEACOAST PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
4. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPICAL PLANTING DIAGRAM

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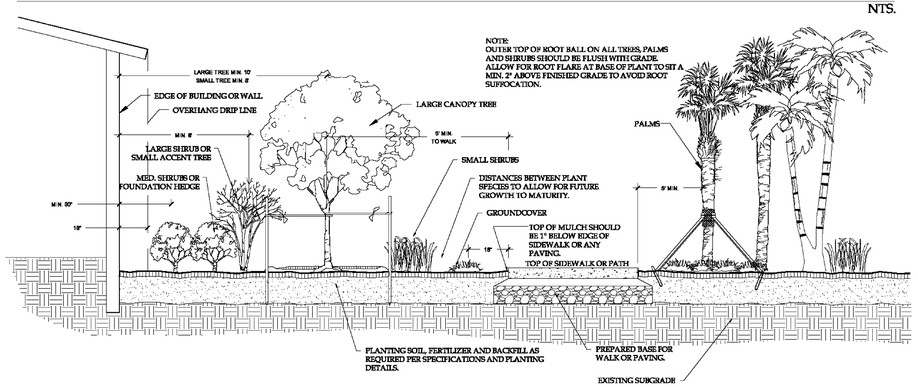


NOTE:
OUTSIDE TOP OF ROOT BALL ON ALL TREES, PALMS AND SHRUBS SHOULD BE FLUSH WITH GRADE. ALLOW FOR ROOT FLARE AT BASE OF PLANT TO SIT A MIN. 2" ABOVE FINISHED GRADE TO AVOID ROOT SUFFOCATION.

LANDSCAPE SCHEDULE

NATIVE	QTY	CODE	BOTANICAL NAME	COMMON NAME	SIZE & REMARK
			TREES		
*	23	BS	Bursera simaruba	Gumbo Limbo	B&B; 15' HT x 8' Spr., 3" cal.
*	1	BSI	Bursera simaruba	Gumbo Limbo	B&B; 20' HT x 10' Spr., 4.5" cal.
*	9	CD	Coccoloba diversifolia	Pigeon Plum	B&B; 15' HT x 8' Spr., 3" cal.
*	7	CE	Conocarpus erectus "Sericeus"	Silver Buttonwood	B&B; 15' HT x 10' Spr., multi-trunk
	2	FD	Filicium decipiens	Japanese Tree Fern	B&B; 10' HT x 8' Spr., multi-trunk
*	1	DR	Delonix regia	Royal Poinciana	B&B; 20' HT x 10' Spr., 4.5" cal.
			PALMS		
	53	CN	Cocos nucifera "Maypan"	Coconut Palm	B&B, See plan for GW. HT., heavy, curved trunk
	4	PE	Ptychosperma elegans	Solitaire Palm	B&B, See plan for CT. HT.
	5	VM	Veitchia montgomeryana	Montgomery Palm	B&B, see plan for CT. HT.
			ACCENT		
	24	RRG	Neoregelia cruenta "Rubra"	Red Cruenta	#3, 24" x 24", full
	5	BRO	Bromeliad spp.	Bromeliads	#3, 24" x 24", full
	20	BRT	Neoregelia "Tricolor"	Tricolor Bromeliad	#3, 18" x 18", full
	7	CHA	Chamaedorea cataractarum	Cat Palm	#3, 36" ht., full
	17	COR	Cordyline fructicosa "Red Sister"	Red Sister Ti Plant	#7, 36" ht., 5 PPP., full
	8	PGY	Phoenix roebelenii	Pygmy Date Palm	#7, 30" x 30", double trunk, full
	5	PRO	Phoenix roebelenii	Pygmy Date Palm	#7, 30" x 30", triple trunk, full
	4	STN	Strelitzia nicolai	White Bird of Paradise	#15, 6'-7' ht., full
	70	STR	Strelitzia reginae	Bird of Paradise	#7, 2'-3' ht, 3 PPP., full
*	5	TRX	Thrinax radiata	Thatch Palm	#7, 4'-5' ht., full
			SHRUBS		
*	346	CHI	Chrysobalanus icaco	Coco Plum	#3, 24"x24", 24" OC.
*	71	CHR	Chrysobalanus icaco 'Red Tip'	Red Tip Coco Plum	#3, 24"x24", 24" OC.
	25	COS	Costus woodsonii	Red Button Ginger	#3, 16"x16", 24" OC.
	95	CRO	Codiaeum variegatum "Mammey"	Mammey Croton	#3, 18"x18", 18" OC.
*	86	CUA	Coccoloba uvifera	Sea Grape	#3, 24"x24", 24" OC.
*	22	EUG	Eugenia foetida	Spanish Stopper	#3, 24"x24", 24" OC.
*	28	FAK	Tripsacum dactyloides	Fakahatchee Grass	#3, 24"x24", 24" OC.
	204	FIB	Ficus benjamina	Weeping Fig	#3, 24"x24", 24" OC.
	237	FIC	Ficus microcarpa "Green Island"	Green Island Ficus	#3, 14"x14", 24" OC.
	104	PLU	Plumbago auriculata "Cape Blue"	Cape Blue Plumbago	#3, 24"x24", 24" OC.
*	41	IVN	Ilex vomitoria "Stokes Dwarf"	Dwarf Yaupon Holly	#3, 16"x16", 24" OC.
	63	PHI	Philodendron bipinnatifidum	Selloum	#3, 24"x24", 24" OC.
	24	POD	Podocarpus macrophyllus 'Pringles'	Dwarf Podocarpus	#3, 14"x14", 24" OC.
	257	SCH	Schefflera arboricola "Dwarf"	Dwarf Arboricola	#3, 24"x24", 24" OC.
	163	SCM	Schefflera arboricola "Compacta"	Mini Arboricola	#3, 16"x16", 18" OC.
	178	SCT	Schefflera arboricola "Trinette"	Variegated Arboricola	#3, 24"x24", 24" OC.
*	85	TRI	Tripsacum floridanum	Gama Grass	#3, 24"x24", 24" OC.
			GROUNDCOVER		
	850	ANN	Annuals	Annuals by season	4" pots, full
	193	ASP	Asparagus densiflorus "Myers"	Foxtail Fern	#1, 12"x12", 18" OC.
	339	DIA	Dianella tasmanica "Variegata"	Blueberry Flax Lily	#1, 14x14", 18" OC.
	79	LAN	Lantana montevidensis	Purple Trailing Lantana	#1, 14x14", 18" OC.
	53	LIR	Liriope muscari "Evergreen Giant"	Giant Lily Turf	#1, 12x12", 18" OC.
	129	OPH	Ophiopogon japonicus "Nana"	Dwarf Mondo Grass	#1, 8"x8", 12" OC.
	120	TRA	Tradescantia bermudensis "Variegata"	Variegated Oyster Plant	#1, 10"x10", 12" OC.
		SOD	Stenotaphrum secundatum	St. Augustine 'Floritam'	Solid Sod, Sq. Ft. to be determined by land. contractor

LANDSCAPE NOTES:

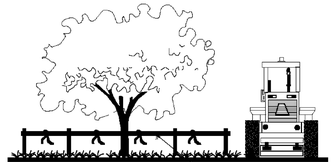
-STRUCTURAL ELEMENTS AND HARDSCAPE FEATURES INDICATED ON LANDSCAPE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPE PLANS ARE TO BE UTILIZED FOR LOCATION OF LIVING PLANT MATERIAL ONLY. LANDSCAPE PLANS SHOULD NOT BE UTILIZED FOR STAKING AND LAYOUT OR LOCATION OF ANY STRUCTURAL SITE FEATURES INCLUDING BUT NOT LIMITED TO: BUILDINGS, SIGNAGE, PATHWAYS, EASEMENTS, UTILITIES OR ROADWAYS.
-TREE REMOVAL/RELOCATION PERMIT IS REQUIRED PRIOR TO REMOVING OR RELOCATING TREES.
-CONTRACTOR SHALL ACQUIRE ALL APPLICABLE FEDERAL, STATE, LOCAL, JURISDICTIONAL OR UTILITY COMPANY PERMITS REQUIRED PRIOR TO REMOVAL, RELOCATION, AND/OR INSTALLATION OF LANDSCAPE MATERIALS INDICATED WITHIN PLAN DOCUMENTS. THE CONTRACTOR SHALL HAVE PERMITS "IN HAND" PRIOR TO STARTING WORK. LANDSCAPE ARCHITECT (LA) SHALL BEAR NO RESPONSIBILITY FOR WORK PERFORMED WITHOUT PERMITTED DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES TO THE WORK, AT NO ADDITIONAL COST TO THE OWNER, AS A RESULT OF UNAUTHORIZED WORK PRIOR TO RECEIPT OF PERMIT.
-ANY TREES THAT CONFLICT WITH LIGHT POLE LOCATIONS ARE TO BE ADJUSTED OR UTILIZED ELSEWHERE. LA TO BE CONTACTED WHEN SCENARIO FIRST OCCURS.
-ANY PLANTING WITHIN THE SIGHT TRIANGLES SHALL PROVIDE UNOBSTRUCTED VIEWS AT A LEVEL BETWEEN 30" AND 8' ABOVE THE PAVEMENT.
-ALL UTILITY BOXES/ STRUCTURES TO BE SCREENED ON 3 SIDES W/ APPROVED HEDGE AS PER PARTICULAR MUNICIPALITY REQUIREMENTS.
-IRRIGATION IS REQUIRED & SHALL PROVIDE 100 % COVERAGE WITH A MAXIMUM OF 50 % OVERLAP. AN AUTOMATIC RAIN SENSOR MUST BE INCLUDED.
-ALL PROPOSED PLANT MATERIAL SHALL CONFORM TO FLORIDA POWER AND LIGHT'S (FPL'S) RIGHT TREE/ RIGHT PLACE GUIDELINES.
-TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH DRIVEWAYS AND UNDERGROUND UTILITIES. IN ANY CASE THE TREES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH THE PLANTING DETAILS SHOWN HEREON.
-ALL TREES AND LANDSCAPING SHALL BE FIELD LOCATED TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES, LIGHT POLES, DRAINAGE LINES AND LAKE MAINTENANCE EASEMENTS.
- ALL TREES TO BE INSTALLED TEN FEET MIN. (10') FROM STRUCTURES AND FIVE FEET MIN. (5') FROM WALKS, CURBS, DRIVEWAYS, PATIOS, ETC. IF CONFLICT ARISES, LA TO BE CONTACTED PRIOR TO INSTALLATION.
-ALL PALMS TO BE INSTALLED SIX TO EIGHT FEET (6-8') FROM A STRUCTURE, DEPENDING ON SPECIES FROND LENGTH AND THREE FEET MIN. (3') FROM WALKS, CURBS, DRIVEWAYS, PATIOS, ETC. IF CONFLICT ARISES, LA TO BE CONTACTED PRIOR TO INSTALLATION.
-SMALL PALMS AND SMALL TREES TO BE INSTALLED WITH A TEN FOOT (10') MIN. SEPARATION FROM ANY PUBLIC WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A TEN FOOT (10') SEPARATION CANNOT BE ACHIEVED, THE PALMS OR TREES CAN BE INSTALLED WITH AN APPROVED ROOT BARRIER SYSTEM. REFER TO THE ROOT BARRIER DETAIL FOR INSTALLATION REQUIREMENTS.
- LARGE CANOPY TREES, LARGE OR EXOTIC PALMS ARE TO BE INSTALLED WITH A FIFTEEN FOOT (15') MIN. SEPARATION FROM ANY PUBLIC WATEROR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A FIFTEEN FOOT (15') SEPARATION CANNOT BE ACHIEVED, THE TREES OR PALMS CAN BE INSTALLED WITH AN APPROVED ROOT BARRIER SYSTEM. REFER TO THE ROOT BARRIER DETAIL FOR INSTALLATION REQUIREMINTS.
-IN THE CASE OF DISCREPANCIES, PLANS TAKE PRECEDENCE OVER PLANT LIST.
-LANDSCAPE CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT IF MATERIAL IS NOT AVAILABLE AS SPECIFIED IN PLANS.
-LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES PRIOR TO BIDDING.
-REMOVAL OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR.
-RELOCATION OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR. REFER TO SPECIFICATIONS FOR RELOCATION INSTRUCTIONS.
-HEIGHT OF TREES MAY HAVE TO BE LARGER TO ACHIEVE MINIMUM CALIPER SIZE OR ANY CLEAR TRUNK SPECIFICATIONS.
-CONTAINER SIZE PROVIDED BY LANDSCAPE ARCHITECT IS ONLY A GUIDE, CONTAINER SIZE MAY HAVE TO BE INCREASED TO MEET OVERALL SIZE SPECIFICATIONS.

TREE PROTECTION DETAIL

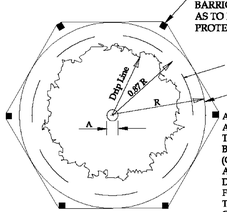
NOTES:

NTS.

- ALL DIMENSIONS AND NOTES ARE TYPICAL.
- THIS DETAIL APPLIES TO ALL TREES THAT ARE TO BE PRESERVED IN PLACE OR RELOCATED



FENCING WITH FLAGGING. THE BARRICADE SHALL BE PLACED SO AS TO ENCOMPASS THE CRITICAL PROTECTION ZONE (CPZ).



B MINIMUM BOUNDARY

B BOUNDARY

A= INCHES IN DIAMETER AT 4.5' ABOVE GRADE OF THE PROTECTED TREE.
B= CRITICAL PROTECTION ZONE (CPZ). THAT AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT 4.5' ABOVE GRADE. *
* B AREA MINIMUM =75% OF B AREA

BY	REVISIONS	DATE
WED	REVISIONS AS PER DRC COMMENTS	7-15-10
WED	REVISIONS AS PER PLANNING BOARD COMMENTS	8-9-10
WED	REVISIONS AS PER RE-DESIGN OF REAR DECK	11-23-10

Divine Design Landscape L.L.C.
Jupiter, FL. (561)315-5527

Design and Entitlement Consultants, LLC.
706 Hollywood Place
West Palm Beach, FL. 33405
Tel: (561) 707-3410
Email: dcelle@bellsouth.net

DESIGN AND ENTITLEMENT CONSULTANTS, LLC

U.S. HIGHWAY 1 PROPERTY
FRIGATES HOLDINGS LLC.
VILLAGE OF NORTH PALM BEACH, FLORIDA

LANDSCAPE DETAILS

SCALE:	NTS
CHECKED BY:	WED/RMB
DRAWN BY:	WED
DATE:	05.26.10
FILE:	FR_HOLDINGS_LP_11-23-10

SHEET
LSP.2
1 OF 2 SHEETS

RLA SEAL

MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS, THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS; FLORIDA BUILDING CODE–MECHANICAL, SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B–9.1 MECHANICAL REFRIGERATION.

2. THE MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL. PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IN WRITING IF MECHANICAL SYSTEMS WILL NOT FIT IN AREA ALLOTTED.

3. ALL INSTALLATIONS LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZE NON–FERROUS MATERIALS FOR ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, STRAPS, TIE DOWNS, CABLES, ANCHORS, SCREWS, ETC.

4. THE CONTRACTOR SHALL BE HELD TO HAVE VERIFIED ALL EXISTING CONDITIONS, INCLUDING REVIEW OF AS BUILT DOCUMENTATION IF APPLICABLE, PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT ON THIS PROJECT.

5. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.

6. ENGINEER OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER SUB–CONTRACTORS TO BE LICENSED IN THE STATE OF FLORIDA. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST.

7. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.

8. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS–BUILT" REDLINE DRAWINGS. UPON COMPLETION OF THE PROJECT AND AUTOCAD SHOP DRAWING FILES (IF APPLICABLE).

9. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED TRADESMEN.

DUCTWORK:

10. FIBROUS GLASS DUCTS SHALL BE CONSTRUCTED OF RIGID GLASS–FIBER BOARDS WITH EDGE TREATMENT, FACTORY MOLDED AND FACED ON ONE SIDE WITH FIRE RETARDING, REINFORCED, FOIL–SCRIM–KRAFT BARRIER. THE BOARD SHALL BE UL LISTED AND LABELED AS COMPLYING WITH UL 181 CLASS 1. THE FLEXURAL RIGIDITY (EI) SHALL BE 475, STANDARD DUTY, 1" (R–4.3) FOR USE IN CONDITIONED SPACE AND 800 1 1/2" (R–6) FOR USE IN UNCONDITIONED SPACE. INSTALL DUCTS AND FITTINGS IN ACCORDANCE NAIMI'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS" OR SMACNA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS".

11. FLEXIBLE DUCT SHALL COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R–8) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INNER LINER SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NAIMA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS". INSULATION SHALL BE 1" (R–4.3) FOR USE IN CONDITIONED SPACE AND 1 1/2" (R–6) FOR USE IN UNCONDITIONED SPACE. LIMIT FLEXIBLE DUCT RUNS TO 10 FEET. PROVIDE TRANSITION BOXES AS NEEDED.

14. EXTERIOR RECTANGULAR METAL DUCT AND FITTINGS SHALL BE DOUBLE WALL CONSTRUCTION. THE OUTER SHELL SHALL BE FABRICATED WITH SST SHEET STEEL LOCK–FORMING QUALITY; ASTM A653/A653M, WITH ASTM G–90 GALVANIZE COATING THE INSULATION SHALL BE 2" (R–8) FIBERGLASS DUCT WRAP. THE INNER SHELL SHALL BE 24 GA PERFORATED METAL WITH 3/32" DIAMETER HOLES ON 3/16" STAGGERED CENTERS. MYLAR SHALL BE INSTALLED BETWEEN THE FIBERGLASS DUCT WRAP AND THE PERFORATED INNER SHELL. ALL JOINT CONNECTORS SHALL BE WARD ANGLE FLANGES WITH APPROPRIATE GASKETS. METAL GAUGES SHALL CONFORM TO SMACNA'S 3"W.G. STANDARDS. ALL PIECES SHALL HAVE NOSING ON BOTH ENDS. ALL SEAMS TO BE "PITTSBURGH" AND SEALED WITH SMACNA APPROVED EXTERIOR JOINT SEALANT. ALL 909 DEGREE ELBOWS SHALL HAVE DOUBLE TURNING VANES. APPROVED MANUFACTURES; AUTODUCT/SEMCO

15. DOUBLE WALL SPIRAL DUCT SHOWN OR SPECIFIED AS DOUBLE–WALL TO BE CONSTRUCTED WITH OUTER PRESSURE SHELL 2" THICK, 1–LB INSULATION LAYER OVER A SOLID OR PERFORATED INNER LINER. CONSTRUCT SHELL AND LINER OF GALVANIZED STEEL COMPLYING WITH LATEST ASTM STANDARDS OF SPIRAL LOCKSEAM AND GAUGED AS SPECIFIED FOR PRESSURE CLASS.
FITTINGS AND COUPLINGS: CONSTRUCTED OF MINIMUM GAUGES AS SPECIFIED FOR PRESSURE CLASS.
PERFORATED INNER LINER: 24–GA GALVANIZED STEEL, PERFORATE WITH 3/32" HOLES ON 3/16" STAGGERED CENTERS FOR A 22% FREE AREA.
PROVIDE INSULATION STOPS AT ALL LOCATIONS WHERE INSULATION ENDS.

16. LAVATORY EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL OR CORRUGATED ALUMINUM FLEX DUCT WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR AND EXHAUST AIR DUCTS LOCATED IN AREAS WERE DEWPOINT CONDITIONS COULD OCCUR SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATIONS WITH A MINIMUM OF R–6.

17. ALL OUTSIDE AIR DUCT INTAKES SHALL BE LOCATED BEYOND 10'0" OF ANY VENTILATION OUTLET OR SANITARY VENT PIPE AND SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH.. ALL OUTSIDE AIR INTAKES SHALL BE MARKED WITH A PERMANENT PLATE TITLED "INTAKE FOR UNIT NUMBER(#)" PER FMC 2007, 401.5.1. (E.G. "INTAKE FOR AHU–1", "INTAKE FOR FCU–1–1", ETC.)

18. ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(#) OR AREA". (E.G. "EF–1 FOR LOCKER ROOM", "EF–1–1 FOR GRD FL TOILET", ETC.)

19. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

THERMOSTATS/CONTROLS:

20. UNLESS OTHERWISE SPECIFIED, THERMOSTATS SHALL BE A PROGRAMMABLE TYPE WITH A COMBINATION COOLING/HEATING, WITH SYSTEM "COOL–AUTO– HEAT–OFF" AND FAN "ON–AUTO" SELECTOR SWITCHES. THERMOSTAT SHALL BE INSTALLED AT 48" TO 54" A.F.F PER A.DA. REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL REQUIREMENTS FOR JUNCTIONS BOXES, CONDUITS, POWER WIRING, CONTROL WIRING, ETC. FINAL LOCATION OF THERMOSTATS SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION, UNLESS OTHERWISE SHOWN ON THE PLAN. APPROVED MANUFACTURERS HONEYWELL, UNIT MANUFACTURE SUPPLIED OR AS PER THE BUILDING STANDARD.

21. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.

22. PROVIDE PHOTO ELECTRIC TWIST IN TYPE SMOKE DETECTORS WITH ACCESS DOORS IN ALL FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, AND SHALL COMPLY WITH UL 268A LOCATE THE SMOKE DETECTORS IN THE SUPPLY AIR DUCT FOR INSTALLATIONS IN COMPLIANCE WITH THE THE FLORIDA BUILDING CODE. THE DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR & INSTALL IN THE DUCT BY THE MECHANICAL CONTRACTOR. PROVIDE REMOTE TEST STATION. ELECTRICAL CONNECTION SHALL BE BY ELECTRICAL CONTRACTOR. UPON SMOKE DETECTION ALL ASSOCIATED AIR MOVING EQUIPMENT SERVING A COMMON PLENUM WILL BE SHUT DOWN. TIE FIRE ALARM DEVICES INTO EXISTING FIRE ALARM SYSTEM (IF APPLICABLE).

23. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED ASSEMBLIES. PROVIDE RADIATION DAMPERS IN DIFFUSERS OF RATED CEILINGS.

24. ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH 1" THICK ARMAFLEX INSULATION. PVC PIPING SHALL NOT BE ALLOWED. SEE PLANS FOR SIZE AND LOCATION OF PIPING.

25. FOR ELECTRICAL OR CONTROL PANELS PROVIDE A MINIMUM OF 3'0" CLEARANCE IN FRONT OF ALL 120–240 VOLT PANELS AND 4'0" CLEARANCE IN FRONT OF ANY 480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC. DUCTS, PIPES, AND OTHER EQUIPMENT ARE NOT ALLOWED TO RUN OVER PANELS PER NEC.

26. THE GENERAL CONTRACTOR SHALL TEST AND BALANCE THE AIR SIDE SYSTEM UPON COMPLETION. THE FINAL TEST AND BALANCE MUST BE PERFORMED BY AN INDEPENDENT FIRM CONTRACTED BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE FIRM SHALL HOLD A CURRENT CERTIFICATION FROM A RECOGNIZED TEST AND BALANCE ORGANIZATION. THE TEST AND BALANCE OPERATION SHALL INCLUDE ALL AIR SIDE SYSTEMS REGARDLESS OF SIZE OF EQUIPMENT AND A TEST TO CONFIRM BUILDING IS NEUTRAL OR POSITIVELY PRESSURIZED. THE T & B FIRM SHALL PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEER UPON COMPLETION. FBC 2007, CHAPTER 13 410.1AB4.2 AND 4.3.

27. ALL OPERATIONS / MAINTENANCE MANUALS FOR EQUIPMENT SPECIFIED SHALL BE PROVIDED TO OWNER UPON COMPLETION OF PROJECT.

28. ALL ROOF CURBS SHALL BE A MIN. OF 18" UNLESS OTHERWISE SPECIFIED ON DRAWINGS. MECHANICAL EQUIPMENT ON ELEVATED STRUCTURES OR ROOFS SHALL COMPLY WITH FBC 2007 PAR. 306.5

29. ALL WIND LOAD CALCULATIONS AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT AS REQUIRED BY FBC 2007, SEC. 1509, 1522 AND CHAPTER 16.

30. UNLESS OTHERWISE SPECIFIED, THE MECHANICAL CONTRACTOR SHALL PROVIDE BAS MOTOR STARTERS WITH H.O.A. (HAND/OFF/AUTOMATIC) SWITCH AS REQUIRED FOR ALL MECHANICAL HVAC EQUIPMENT. THE STARTERS SHALL BE MATCHED TO THE EQUIPMENT AND THE SERVICE VOLTAGE. PHASE LOSS MONITORS/PROTECTION SHALL BE REQUIRED ON ALL THREE PHASE EQUIPMENT.

MECHANICAL SYMBOL LEGEND

- NEW RIGID DUCT METAL OR FIBER (REF. KEY NOTES)
- SUPPLY DUCT VERTICAL TAPS
- NEW RETURN DUCT
- NEW FLEXIBLE DUCT
- E/A — METAL EXHAUST DUCT
- O/A — OUTSIDE AIR DUCT
- VD — MANUAL VOLUME DAMPER
- MVD — MOTORIZED VOLUME DAMPER
- FD — FIRE DAMPER
- BDD — BACK DRAFT DAMPER
- F/SD — FIRE SMOKE DAMPER
- SD — SMOKE DAMPER
- SUPPLY DIFFUSER, SEE GRILL REGISTER AND DIFFUSER SCHEDULE FOR DESCRIPTION.
- T–BAR DROP IN SUPPLY DIFFUSER, SEE GRILL REGISTER AND DIFFUSER SCHEDULE FOR DESCRIPTION.
- RETURN GRILLE, SEE GRILLE REGISTER AND DIFFUSER SCHEDULE FOR DESCRIPTION.
- T — THERMOSTAT
- H — HUMIDISTAT
- EXHAUST FAN
- CU# — CONDENSING UNIT
- C — CONDENSATE LINE
- DD — SMOKE DETECTOR/ CUTOFF
- SD–O / 500 — DIFFUSER/GRILL SYMBOL
- AHU–X–X — EQUIPMENT TAG
  - EQUIPMENT NUMBER
  - EQUIPMENT FLOOR/LOCATION
- ACCESS PANEL
- SUPPLY AIR
- RETURN AIR
- U/C — DOOR UNDER CUT

NOTE: NOT ALL SYMBOLS MAY APPLY TO PLANS

SHOP DRAWINGS

PRIOR TO COMMENCING ANY WORK, FABRICATING DUCTWORK, OR ORDERING EQUIPMENT THE MECHANICAL CONTRACTOR SHALL PRODUCE AND PROVIDE TO THE ARCHITECT AND ENGINEER A FULLY COORDINATED SET OF SHOP DRAWINGS FOR ALL HVAC WORK. THESE PLANS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL INCLUDE FIELD VERIFIED STRUCTURAL INFORMATION AND COORDINATION WITH ALL OTHER ENGINEERING AND ARCHITECTURAL TRADES AND CONTRACTORS.

MECHANICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS IN AUTOCAD 2009 FORMAT WITH A DATED CONTRACTOR OF RECORD TITLE BLOCK/SEAL. PLANS SHALL SHOW DUCT ROUTING, DUCT SIZES, OFFSETS, ELBOWS, TRANSITIONS, PIPING, CONNECTIONS, ACCESS AREAS, MOUNTING/INSTALLATION METHODS AND SUPPORTS, ETC.

THE SHOP DRAWINGS SHALL PROVIDE A COMPLETE WORKING SYSTEM THAT SHALL NOT REQUIRE ANY ADDITIONAL COSTS TO THE OWNER.

MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN THEIR LATEST REVISIONS.

CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURERS' SHOP DRAWINGS.

ALL EQUIPMENT SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.

MECHANICAL ABBREVIATIONS

ACCH	AIR COOLED CHILLER	IL	INTAKE LOUVERED PENTHOUSE
AFF	ABOVE FINISHED FLOOR	KVU	KITCHEN VENTILATION UNIT
ACP	AIR COMPRESSOR	MAU	MAKE UP AIR UNIT
AEL	AIR ELIMINATOR	MCP	MAIN CONDENSATE PUMP
AHU	AIR HANDLING UNIT	NEW	NEW
BDD	BACK DRAFT DAMPER	OA	OUTSIDE AIR
BF	BOOSTER FAN	P	PUMP
CC	COOLING COIL	PF	PRE–FILTER
CFP	CHEMICAL FEED PUMP	PHC	PREHEAT COIL
CHP	CHILLED WATER PUMP	PIU	POWERED INDUCTION UNIT W/ EL. HEAT
CH	CHILLER	PRV	PRESSURE REDUCING VAVLE
CONV	CONVERTER	PUX	PUMP/HEAT EXCHANGER
CP	CONDENSATE PUMP	RD	RELIEF DAMPER
CRAC	COMPUTER ROOM A/C UNIT	RE	RELOCATE EXISTING
CT	COOLING TOWER	RF	RETURN FAN
CWP	CONDENSER WATER PUMP	RGH	ROOF MOUNT RELIEF GRAVITY HOOD
DHC	DUCT RE–HEAT COIL	RH	RELIEF HOOD
EDH	ELECTRIC DUCT HEATER	RHC	REHEAT COIL
EF	EXHAUST FAN	RL	RELIEF LOUVERED PENTHOUSE
E/A	EXHAUST AIR	SA	SOUND ATTENUATOR
ERU	ENERGY RECOVERY O/A PRECONDITIONER UNIT	SEF	SMOKE EXHAUST FAN
F	FILTER	SEP	SEPARATOR
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FDP	FLUID DISTRIBUTION POINT	SH	SUPPLY HOOD
FF	FINAL FILTER	SIH	ROOF MOUNT SUPPLY INTAKE HOOD
FMS	FLOW MEASURING STATION	SSF	SMOKE SUPPLY FAN
FTK	FLASH TANK	TK	TANK
GLYP	GLYCOL PUMP	TRP	TRANSFER PUMP
GX	GENERAL EXHAUST	TRF	TRANSFER AIR FAN
H	HUMIDIFIER	TX	TOILET EXHAUST
HC	HEATING COIL	UH	UNIT HEATER
HV	HEATING & VENTILATION UNIT	UPAC	USP ROOM A/C UNIT
HOA	HAND OFF AUTOMATIC	VAV	VARIABLE AIR VOLUME TERMINAL
IH	INFRARED HEATER	VFD	VARIABLE FREQUENCY DRIVE
N	NEW	WCCH	WATER COOLED CHILLER
E	EXISTING	WTS	WATER TEMPERATURE SENSOR
RE	RELOCATED EXISTING		

NOTE: NOT ALL ABBREVATIONS MAY APPLY TO PLANS

HVAC DESIGN CONDITIONS

	DB °F	WB °F	GR/#	COMMENTS
OUTDOOR	95	79		
INDOOR	73	67		
OUTSIDE AIR	1650			
GLASS TYPE	–			
GLASS HEIGHT	VARIES			
ROOF TYPE	TILE ON WOOD TRUSS			
TOTAL ROOF "R" VALUE	30			
CEILING HEIGHT	VARIES			
CEILING CAVITY	VARIES			
WALL TYPE	8" CMU			
TOTAL WALL "R" VALUE	13			
AIR CONDITIONED SQ.FT.	–			
FLOOR LEVEL(S)	1			

NOTES:
1. THIS SPACE SHALL NOT OPERATE BELOW 73°F.
2. DIVERSITY IS BASE ON LESS THAN 3 HR EXPOSURE.
3. ALL CONSTRUCTION METHODS AND R–VALUES PROVIDED BY ARCHITECT. SEE ARCHITECT PLANS FOR DETAILS.

MECHANICAL SHEET INDEX

M0.1	MECHANICAL NOTES & LEGEND
M1.1	MECHANICAL ZONE MAP
M2.1	MECHANICAL PLAN – 1ST FLOOR WEST
M2.2	MECHANICAL PLAN – 1ST FLOOR EAST
M2.3	MECHANICAL PLAN – ROOF
M4.1	MECHANICAL SCHEDULES
M5.1	MECHANICAL DETAILS

OUTSIDE AIR CALCULATIONS

(BASED ON FBC 403.3)

AREA	PEOPLE/SQ.FT.	CFM	SUBTOTAL	TOTAL	NOTES
KITCHEN	15	7.5 CFM/P	113	113	1
LIQUOR STORAGE	67	.05 CFM/SF	3	3	1
OFFICE /MECHANICAL	130	.14 CFM/SF	18	18	1
COLD LINE KITCHEN	2	7.5 CFM/P	15	15	1
DINING ROOM	100	15 CFM/P	1500	1500	1
KITCHEN SUPPLY FAN			6500	6500	
BLDG TOTAL				8149	

NOTES:
1. O/A IS SUPPLIED THROUGH OUTSIDE AIR DAMPER INSTALLED ON THE RTUs.

EXHAUST AIR CALCULATIONS

AREA	FIXT.	EXHAUST RATE	REQUIRED	PROVIDED	NOTES
WOMEN'S BATH	3	50 CFM/FIXT.	150	150	1
MEN'S BATH	3	50 CFM/FIXT.	150	150	1
KEF – 1			2925	2925	
KEF – 2			3575	3575	
BLDG TOTAL				6800	

NOTES:
1. EXHAUST AIR SHALL BE INTERMITTENT BY THE USE OF OCCUPANCY SENSOR.

AIR BALANCE SCHEDULE

AREA	EXHAUST	OUTSIDE AIR	MAKE UP AIR	TOTAL	NOTES
1ST FLOOR	6800	1649	6500	(+) 1349	–
BLDG TOTAL				(+) 1349	

NOTES:
BUILDING IS 8149–6800=1349 CFM POSITIVE WHEN ALL EQUIPMENT ARE OPERATING AT FULL CAPACITY.

RGD JOB# 10-4088

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1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

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No.	Description	Date

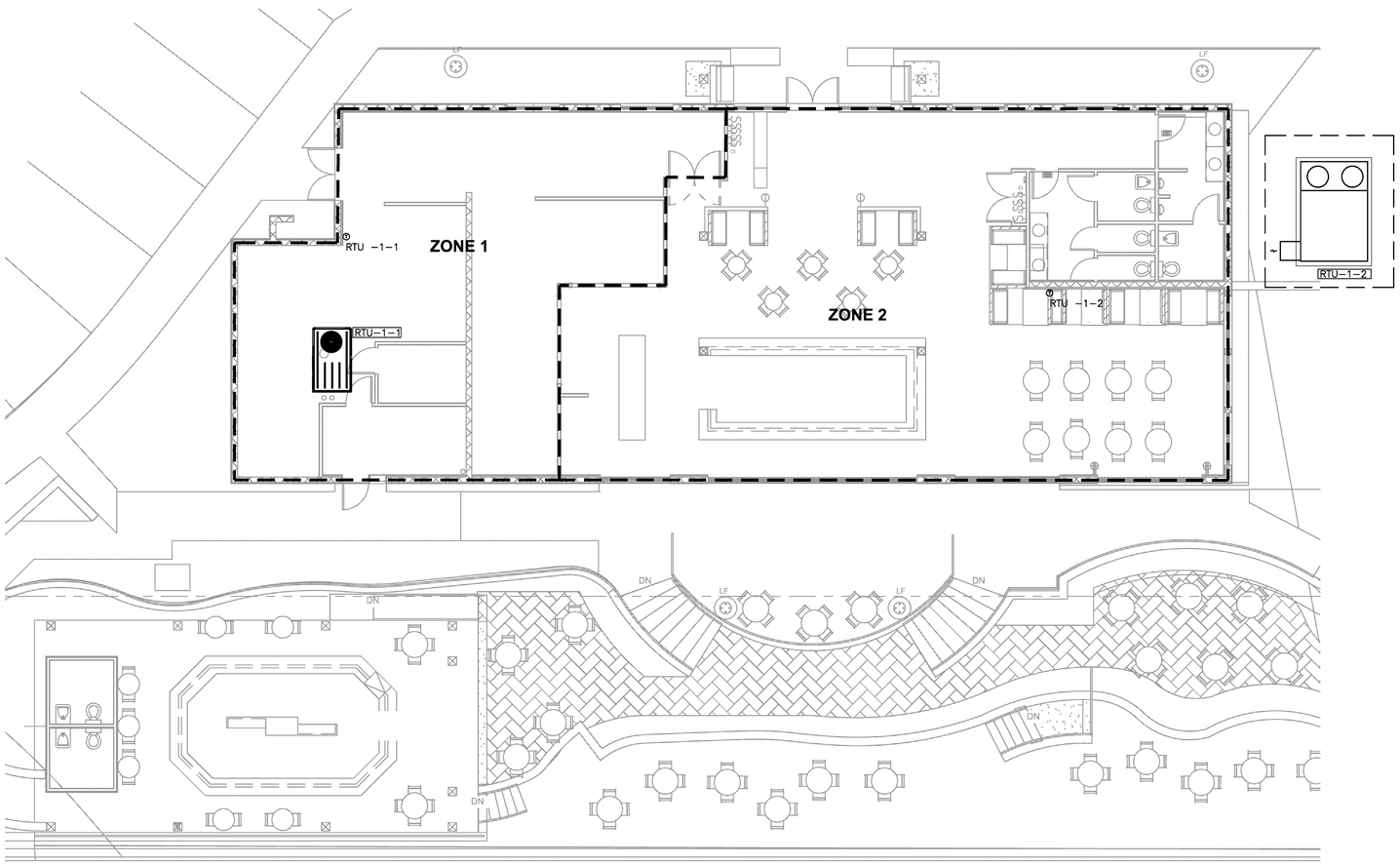
Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL NOTES & LEGENDS

Project number
Date
Drawn by
Checked by

M0.1

Scale



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MECHANICAL PLAN - ZONE MAP

SCALE 1/8" = 1'-0"

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL PLAN - ZONE MAP

Project number

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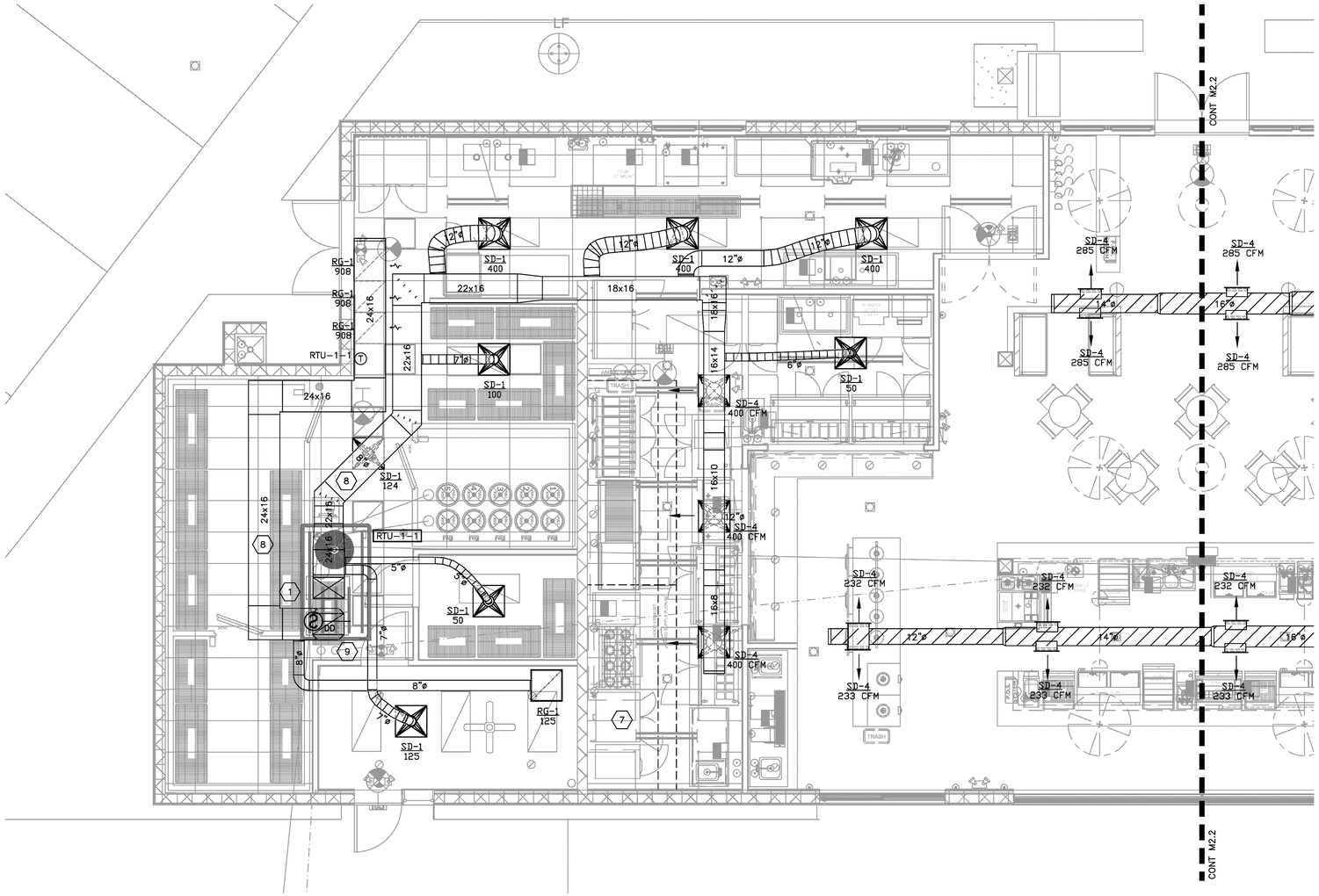
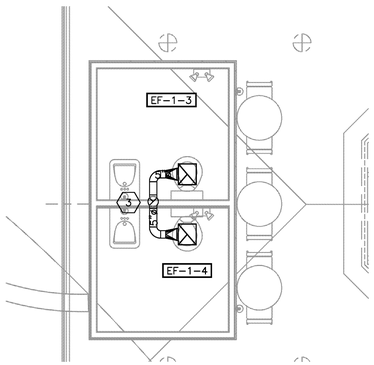


MECHANICAL PLAN - 1ST FLOOR WEST

SCALE 1/4" = 1'-0"



MECHANICAL PLAN - TIKI BAR BATHS

SCALE 1/4" = 1'-0"

MECHANICAL KEY NOTES:

1. COORDINATE RTU ROOF OPENINGS AND CLEARANCES WITH THE STRUCTURAL LOAD BEARING JOISTS.
2. PROVIDE TEMPERATURE/HUMIDTY SENSOR. REFERENCE DETAIL.
3. EXHAUST DUCT TO ROOF. REFERENCE DETAIL FOR ROOF PENETRATION. COORDINATE FINAL LOCATION WITH ARCHITECT/OWNER.
4. PROVIDE ACCESS DOOR FOR EXHAUST FANS.
5. EXTERIOR SUPPLY/RETURN DUCTS UP SIDE OF BUILDING, COORDINATE PENETRATION LOCATION WITH ARCHITECT/GENERAL CONTRACTOR TO PROVIDE REQUIRED OPENING.
6. ALL EXPOSED ROUND DUCT TO BE PAINT GRADE DOUBLE WALL SPIRAL DUCT. SEE MECHANICAL NOTES FOR SPECIFICATION.
7. KITCHEN EXHAUST HOOD BY OTHERS.
8. KITCHEN DUCT TO BE 1½" DUCTBOARD, REFERENCE MECHANICAL NOTES FOR SPECIFICATION.
9. PROVIDE DUCT MOUNTED SMOKE DETECTOR.
10. PROVIDE WATERPROOF ENCLOSER FOR DUCT MOUNTED SMOKE DETECTOR.
11. PROVIDE 6" THICK CONCRETE PAD. 3000PSI CONCRETE OVER CLEAN COMPACTED FILL WITH 6" X 6" #10 X 10 WWM.

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No.	Description	Date

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MECHANICAL PLAN - 1ST FLOOR WEST

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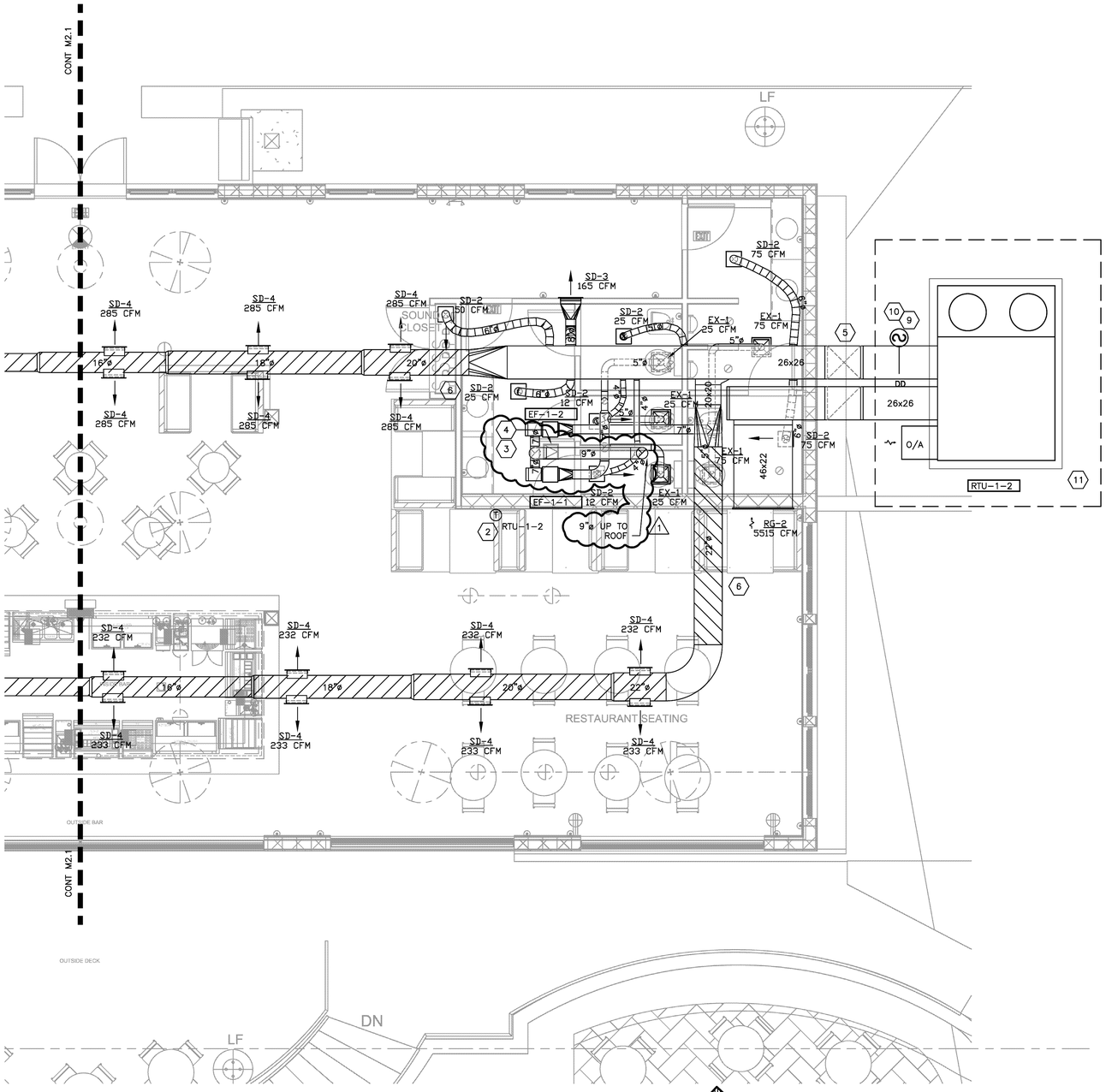

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MECHANICAL PLAN - 1ST FLOOR EAST

SCALE 1/4" = 1'-0"

MECHANICAL KEY NOTES:

1. COORDINATE RTU ROOF OPENINGS AND CLEARANCES WITH THE STRUCTURAL LOAD BEARING JOISTS.
2. PROVIDE TEMPERATURE/HUMIDTY SENSOR. REFERENCE DETAIL.
3. EXHAUST DUCT TO ROOF. REFERENCE DETAIL FOR ROOF PENETRATION. COORDINATE FINAL LOCATION WITH ARCHITECT/OWNER.
4. PROVIDE ACCESS DOOR FOR EXHAUST FANS.
5. EXTERIOR SUPPLY/RETURN DUCTS UP SIDE OF BUILDING, COORDINATE PENETRATION LOCATION WITH ARCHITECT/GENERAL CONTRACTOR TO PROVIDE REQUIRED OPENING.
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1003 JUPITER PARK LANE SUITE 8, JUPITER, FL 33458
WWW.RGDENGINEERS.COM

ROBERT DAVENPORT P.E.
FLORIDA P.E. NO. 31932
CERT OF AUTH 5454
MECHANICAL ENGINEER
DATE

Fagan

Eugene R Fagan III Architect #11668

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(561) 385-4514
Eugene@FaganArchitect.com

Copyrite 2010

23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL PLAN - 1ST FLOOR EAST

Project number

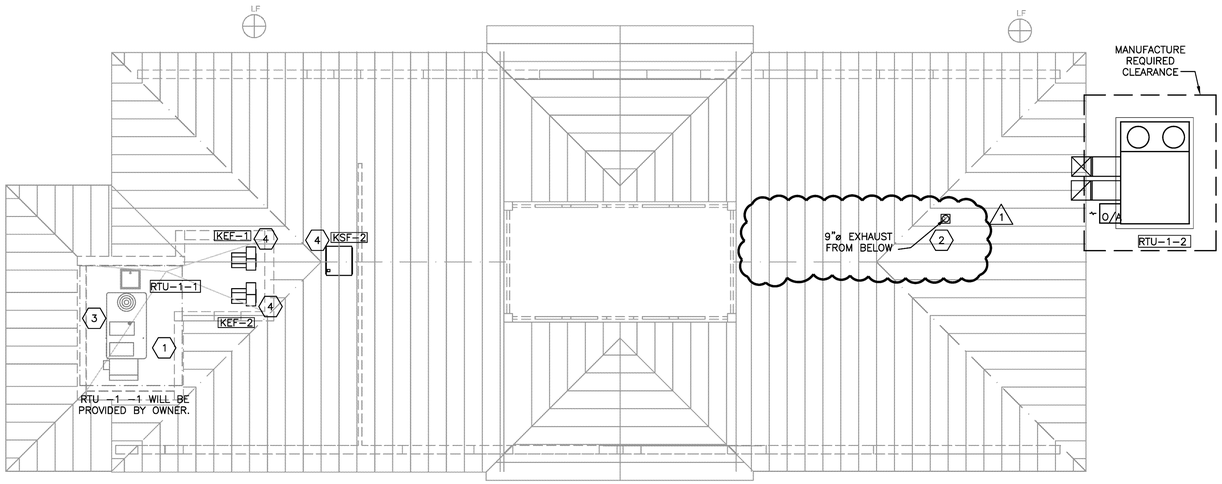
Date

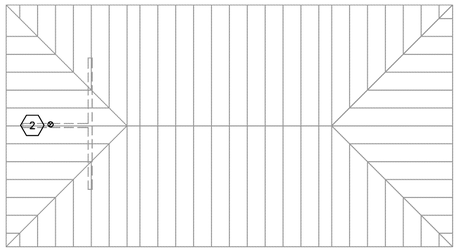
Drawn by

Checked by

M2.2

Scale





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MECHANICAL PLAN - ROOF

SCALE 1/8" = 1'-0"

7 MECHANICAL KEY NOTES:

1. ROUTE CONDENSATE TO ROOF DRAINS. CONTRACTOR TO VERIFY THAT DRAIN IS INSULATED FOR CONDENSATE DISPOSAL. PROVIDE ROOF SUPPORTS 48" O.C. REFERENCE DETAILS.
2. PROVIDE ROOFJACK FOR BATHROOM EXHAUST. REFERENCE DETAIL.
3. COORDINATE RTU ROOF OPENINGS AND CLEARANCES WITH THE STRUCTURAL LOAD BEARING JOISTS.
4. HOOD EXHAUST AND MAKE UP AIR FAN BY OTHERS.

RGD JOB# 10-4088

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	DJC	RGD
1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

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Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL PLAN - ROOF

Project number
Date
Drawn by
Checked by

M2.3

Scale

ROOFTOP UNIT EQUIPMENT SCHEDULE

SYSTEM	UNIT MARK	RTU 1-1	RTU 1-2	
	MANUFACTURER	TRANE	YORK	
	MODEL	TSC120	ZF300E3852CZZ10001	
	DESIGN COOLING CAP. MBH.	82.4	153.0	
	DESIGN SENSIBLE CAP. MBH.	70.0	122.9	
	TOTAL COOLING CAP. MBH.	100.1	265.8	
	TOTAL SENSIBLE CAP. MBH.	91.3	181.3	
	ENTERING AIR TEMP D.B./W.B. (°F)	74.7/61.2	73.7/61.6	
	LEAVING AIR TEMP D.B./W.B. (°F)	53.8/51.8	53.8/51.9	
	SUPPLY AIR CFM	3049	5515	
	OUTSIDE AIR CFM	150	1501	
	VOLTAGE	208/3/60	208/3/60	
	MCA/MOCP	52.6/60	126.9/150	
	SEER/EER	/10.4	/10.0	
	OPERATING WEIGHT LBS.	1052	2792	
	ROOF CURB WEIGHT LBS.	115	200	
	ROOF CURB L x W x H (IN.)	84X50X18	N/A	
	RTU DIMENSIONS L x W x H (IN.)	88X53X46	136X92X48	
	ROOF OPENING L x W (IN.)	46 X 46	N/A	
		–	–	
CONDENSER	REF./LBS.	R22/CIR 1 7.2/CIR 2 5.3	410A/CIR 1- 22/CIR 2-23.4	
	NOMINAL TONNAGE/STAGES	10/2	25/2	
	NUMBER OF COMPRESSORS	2	2	
	COMPRESSOR R.L.A. (EACH)	18.6	38.0	
	NUMBER OF OUTDOOR FANS	1	2	
	FAN F.L.A. (EACH)	4.0	4.5	
		–	–	
EVAPORATOR	INDOOR FAN TYPE	FC	FC	
	FAN E.S.P. (IN. W.G.)	1.0	0.6	
	FAN H.P./B.H.P.	3	7.5	
	FAN F.L.A.	9.4	20.0	
	COIL ROWS/FPI	4/16	4/13.5	
	HEATER TYPE	N/A	ELECTRIC	
	HEATER K.W. @ RATED VOLTAGE	N/A	36KW	
	NUMBER OF STEPS	N/A	2	
	FILTER TYPE/EFF.	MEERV 8/ (2)20X25X2	MEERV 8/ (4)16X25X2	
	ACCESSORIES	1,2,3,4,5,6,7,10-15,22	1,2,3,4,5,6,8-14,16,18-21	

ACCESSORIES NOTES:
APPROVED EQUIVALENT: NONE

1. UNITS SHALL BE A.R.I. RATED.
2. PROVIDE FACTORY BUILT ROOF/CURB. COORDINATE HEIGHT REQUIRMENTS OF CURB WITH ROOF INSULATION THICKNESS. CONFIRM THAT RTU WILL BE AT LEAST 8" ABOVE FINISHED ROOF MEMBRANE. (SEE DETAIL)
3. PROVIDE UNIT TIE DOWNS AND LEVEL UNIT PER MANUFACTURES RECOMMENDATIONS (SEE DETAIL).
4. PROVIDE COMPRESSOR 5-YEAR WARRANTY (MINIMUM).
5. PROVIDE SLOPED CONDENSATE DRAIN PAN, PUMP, AND INTERNAL TRAP.
6. PROVIDE WATER GUARD SHUT OFF OR EQUAL FOR CONDENSATE.
7. PROVIDE MANUAL OUTSIDE AIR DAMPER.
8. PROVIDE MODULATING OUTSIDE AIR DAMPER.
9. PROVIDE "ULTRA GUARD" COASTAL CORROSION PROTECTION FOR CONDENSER. FULLY DIPPED COIL BY MANUFACTURER.
10. PROVIDE SERVICE CLEARANCES PER MANUFACTURES RECOMMENDATIONS.
11. PROVIDE SINGLE POINT POWER ENTRY.
12. PROVIDE INTERNAL SPRING ISOLATION FOR SUPPLY FAN. (IF APPLICABLE)
13. PROVIDE PLENUM CURB.
14. PROVIDE MOTOR OVERLOAD AND THERMAL PROTECTION.
15. PROVIDE MATCHING PROGRAMMABLE THERMOSTAT FOR CAPACITY STAGING.
16. PROVIDE "ULTRA-DRY" OPTION W/MODULATING HOT-GAS REHEAT.
17. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF.
18. PROVIDE FACTORY MOUNTED SERVICE RECEPTACLE.
19. PROVIDE "ULTRA SMART" FX SERIES CONTROLS
20. MOTOR STARTERS BY MECHANICAL CONTRACTOR. FUSIBLE DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT POWER WIRING BY ELECTRICAL CONTRACTOR. PHASE LOSS MONITORS/PROTECTION SHALL BE REQUIRED ALL THREE PHASE EQUIPMENT. COORDINATE PRIOR TO ORDERING/PURCHASING/INSTALLATION.
21. PROVIDE RAWAL CAPACITY CONTROL DEVICE.
22. RTU TO BE PROVIDED BY OWNER.

SUPPLY / RETURN AIR DIFFUSER / GRILLE SCHEDULE

SUPPLY

MARK	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM	ACCESSORIES
SD-1	TITUS TDC	24" X 24"	SEE PLANS	ALUM	LAY-IN	PER ARCH	OBD	SEE PLANS	MAX. 30	SEE PLANS	1,2,3,10
SD-2	TITUS TDC	13.75" X 13.75"	SEE PLANS	ALUM	SURFACE	PER ARCH	OBD	SEE PLANS	MAX. 30	SEE PLANS	1,2,3,10
SD-3	TITUS 272 RS	18" X 14"	16" X 12"	ALUM	SURFACE	PER ARCH	OBD	SEE PLANS	MAX. 30	SEE PLANS	1,2,3,10
SD-4	TITUS 272 RS	18" X 8"	16" X 6"	ALUM	SURFACE	PER ARCH	OBD	SEE PLANS	MAX. 30	SEE PLANS	1,2,3,10

RETURN

MARK	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM	ACCESSORIES
RG-1	TITUS 50F	47 3/4 X 23 3/4	46" X 22"	ALUM	SURFACE	PER ARCH	OBD	–	MAX. 30	SEE PLANS	4,10
RG-2	TITUS 50F	24" X 24"	24" X 24"	ALUM	LAY-IN	PER ARCH	OBD	–	MAX. 30	SEE PLANS	4,10
EX-1	TITUS 50F	13.75" X 13.75"	12" X 12"	ALUM	SURFACE	PER ARCH	OBD	–	MAX. 30	SEE PLANS	4,10

ACCESSORIES NOTES:
APPROVED EQUIVALENT: TITUS, AIR GUIDE, PRICE, NAILOR

1. PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION (SEE DETAIL).
2. PROVIDE TYPICAL 2-WAY, 3-WAY, OR 4-WAY DIFFUSION ONLY WHERE INDICATED ON PLANS.
3. PROVIDE INSULATION ON THE BACK OF DIFFUSER/GRILLE IF LOCATED IN AN UNCONDITIONED SPACE.
4. PROVIDE VOLUME CONTROL DAMPERS FOR BALANCED AIRFLOW.
5. PROVIDE MITERED CORNERS FOR LINEAR DIFFUSERS.
6. PROVIDE INTERNAL CABLE CONTROL FOR DIFFUSERS IN HARD CEILINGS (SEE DETAIL).
7. ADJUST LENGTHS TO LINE UP WITH INTERIOR DESIGNER'S PLANS.
8. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
9. PROVIDE RETURN AIR SHIELD ON ALL LINEARS.
10. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.

COORDINATION NOTE:
CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER/PROPERTY MANAGER PRIOR TO ANY ORDERING/PURCHASING/INSTALLATION OF DIFFUSERS TO CONFIRM IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING ANY SPECIFIC MODEL OR MANUFACTURER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER.

FAN SCHEDULE

SELECTION					FAN			MOTOR						GENERAL				
MARK	SERVICE AREA	MANUF.(*)	MODEL	MOUNTING	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	WATTS	AMPS	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"XW"XH"	OPENING L"XW"	CONTROL	ACCESSORIES
EF-1-1	WOMENS BATH	Panasonic	FV-20NLF	INLINE	150	0.6	1.0	---	1590	DIRECT	57	.46	115/60/1	17	13⅝x9⅝x7⅞	N/A	OCC. SENSOR	1,2,3
EF-1-2	MEN'S BATH	Panasonic	FV-20NLF	INLINE	150	0.6	1.0	---	1590	DIRECT	57	.46	115/60/1	17	13⅝x9⅝x7⅞	N/A	OCC. SENSOR	1,2,3
EF-1-3	WOMENS TIKI BATH	Panasonic	FV-05K1	CEILING	50	0.25	1.0	---	916	DIRECT	11.2	.09	115/60/1	14	13⅝x9⅝x7⅞	10"	OCC. SENSOR	1,2,3
EF-1-4	MEN'S TIKI BATH	Panasonic	FV-05K1	CEILING	50	0.25	1.0	---	916	DIRECT	11.2	.09	115/60/1	14	13⅝x9⅝x7⅞	10"	OCC. SENSOR	1,2,3
KEF-1	KITCHEN HOOD	ACCUREX	XUEB-216-15	ROOF	2925	1.0	12.9	1 1/2	1725	VARIABLE		6.6	208/60/3	251	22"X32"X31"	17"X 17"	HOOD	4
KEF-2	KITCHEN HOOD	ACCUREX	XUEB-216-20	ROOF	3575	1.25	16.7	2	1725	VARIABLE		7.5	208/60/3	251	22"X32"X31"	17"X 17"	HOOD	4
KSF-1	KITCHEN HOOD	ACCUREX	XIB-240-30	ATTIC	6500	1.173	13.9	3	992	VARIABLE		10.6	208/60/3	416	69"X39"X39"	30"X 30"	HOOD	4

(-) APPROVED EQUAL MANUFACTURER: GREENHECK, NUTONE

ACCESSORIES NOTES:

1. PROVIDE BACKDRAFT DAMPER.
2. SUPPORT FROM STRUCTURE COMPLETELY WITH VIBRATION ISOLATORS.
3. PROVIDE MOTION SENSOR
4. FAN PROVIDED BY OTHERS.

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Frigates Holdings LLC
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400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL SCHEDULES

Project number
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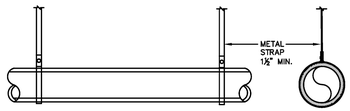
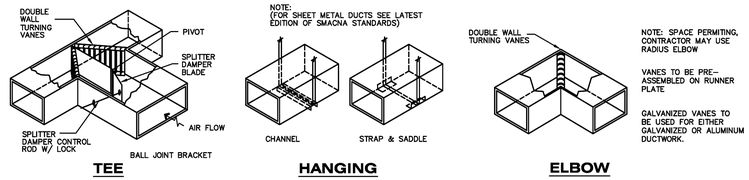


NOTES:
1. DUCT SHOULD EXTEND FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

1 ROUND DUCT SUPPORT DETAIL

N.T.S.

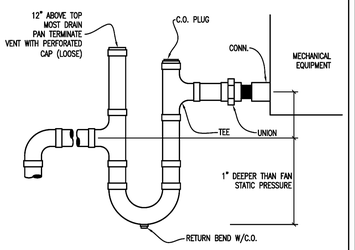


TEE HANGING ELBOW

2 HVAC DUCT DETAILS

NOTE: SEE PLANS FOR DUCT SIZES

N.T.S.



3 CONDENSATE PIPING DETAIL

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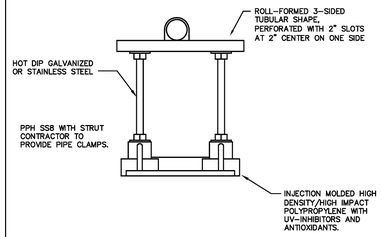
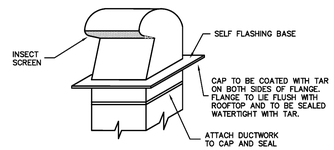


4 PIPE HANGERS

N.T.S.

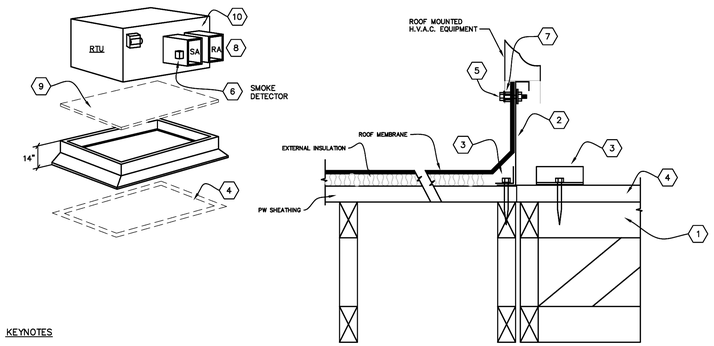


NOTE:
CONTRACTOR TO COORDINATE WITH ARCHITECTURAL SHEETS FOR EXACT ROOF LOCATION.

5 EXHAUST OR FRESH AIR ROOF JACK

NOTE

N.T.S.



KEYNOTES

1. PROVIDE GIRDER AND FLAT TRUSS FRAMING CONTINUOUS AROUND THE PERIMETER OF THE CURB. COORDINATE LOCATION WITH THE STRUCTURAL ENGINEER.

2. ROOF CURB SHALL BE PROVIDED BY THE HVAC EQUIPMENT MANUFACTURER AND MATCHED TO THE RTU. INSTALLED CURB SHALL EXTEND 8" MIN ABOVE THE ROOF MEMBRANE.

3. ANCHOR THE CURB TO THE ROOF STRUCTURE WITH ⅜"GALVANIZED LAG BOLT AS SHOWN. PROVIDE 1 ½" X 1 ½" X ¼" X 3"LG ANGLE STEEL BACKING PLATES. LOCATE ONE BOLT 6" FROM THE CORNERS AND 16" O.C. IN BETWEEN. TYPICAL ON ALL SIDES. 8 BOLTS MIN PER UNIT.

4. CUT ROOF SHEATHING BACK AS REQUIRED TO ACCESS THE UNDERSIDE OF THE PACKAGE UNIT

5. MOUNT RTU TO CURB WITH ⅜" THRU BOLTS. LOCATE ONE BOLT 6" FROM THE CORNERS AND 16" O.C. IN BETWEEN. TYPICAL ON ALL SIDES. 8 BOLTS MIN PER UNIT. USE SELF LOCKING NUTS AND FENDER WASHERS ON THE INSIDE OF CURB. TIGHTEN SECURELY, BUT DO NOT CRUSH THE RTU BOTTOM RAIL.

6. PROVIDE SMOKE DETECTORS IN ACCORDANCE WITH FBC-M 2007 SECTION 606. PROVIDE SA DETECTORS ON UNITS SERVING EGRESS, OR UNITS GREATER THAN 2000 CFM OR AS AGGREGATE SYSTEMS GREATER THAN 2000 CFM. THE DETECTORS SHALL BE UL268A W/REMOTE TEST STATION. THE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR (IF BUILDING EQUIPPED WITH A FIRE ALARM SYSTEM) AND INSTALLED BY THE MECHANICAL CONTRACTOR. ELECTRICAL INTERCONNECTION BY THE ELECTRICAL CONTRACTOR. IF FIRE ALARM SYSTEM IS PRESENT, SMOKE CUT OFF MUST BE INTERLOCKED WITH ALARM SYSTEM.

7. PROVIDE SPACER AS REQUIRED.

8. THE DUCT SIZES SHOWN ON THE PLAN MAY BE LARGER THAT THE OPENING PROVIDED ON THE RTU. THE CONTRACTOR SHALL PROVIDE TRANSITIONS AS REQUIRED AS SOON AS POSSIBLE AFTER LEAVING THE RTU.

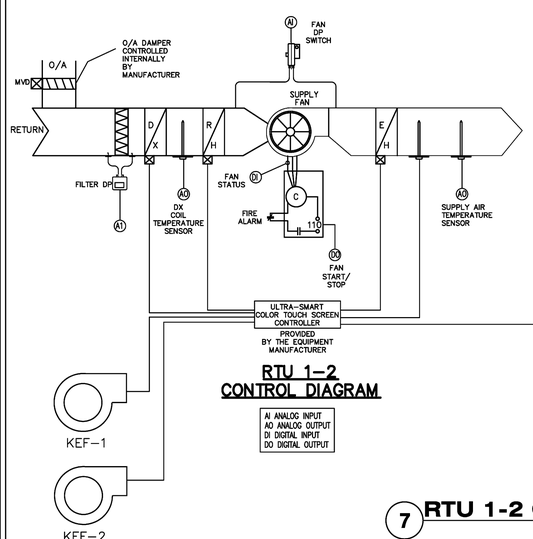
9. CONTRACTOR TO FABRICATE A SHEET METAL COUNTER FLASHING ATTACHED TO THE ROOF CURB FOR PROTECTION AGAINST ROOF LEAKAGE.

10. "IMPORTANT" RTU MUST BE LEVEL TO INSURE PROPER CONDENSATE REMOVAL.

6 RTU MOUNTING DETAIL

NOTE

SCALE



RTU 1-2 CONTROL DIAGRAM

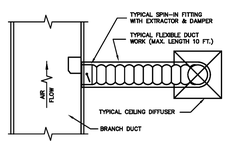
SEQUENCE OF OPERATION

OCCUPIED MODE: THE PROGRAMMABLE CONTROLLER SETS HOURS OF OPERATION FOR BUILDING. THE SPACE TEMPERATURE AND HUMIDITY FOR THE SPACE IS DONE AT THE ULTRA SMART CONTROLLER. AFTER RECEIVING A START COMMAND FROM THE CONTROLLER, THE SYSTEM'S INTERNAL CONTROLS TAKE OVER. THE OUTSIDE AIR DAMPER OPENS. AFTER AN APPROPRIATE TIME INTERVAL THE UNIT STARTS AND RUNS CONSTANT VOLUME DURING THE OCCUPIED TIME PERIOD. DURING THE COOLING SEASON, THE CONDENSING UNIT STAGES COMPRESSORS AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE OFF THE COLD DECK AT OR BELOW 54°F. HOT GAS REHEAT IS ENERGIZED AS REQUIRED TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SET POINT (COOLING SEASON SPACE TEMPERATURE RANGE 70-75°F). WHEN THE SPACE TEMPERATURE DROPS BELOW 68°F FOR AN EXTENDED AMOUNT OF TIME THE SYSTEMS INTERNAL CONTROLS LOCK OUT COMPRESSORS AND OR ENERGIZE RETURN AIR HEAT STRIPS AS REQUIRED BY THE MANUFACTURER TO MAINTAIN THE SPACE TEMPERATURE. HEATING SEASON SPACE TEMPERATURE RANGE 65-68°F.

UN-OCCUPIED MODE: THE UNIT RECEIVES A STOP COMMAND FROM THE CONTROLLER. IN THE UNOCCUPIED MODE THE UNIT IS NORMALLY OFF BUT OPERATES ON DEMAND. IN THE OFF CONDITION THE OUTSIDE AIR DAMPER IS CYCLE CLOSED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SEASON UNOCCUPIED SET POINT OR DROPS BELOW THE HEATING SEASON SET POINT THE UNIT IS ENERGIZED. IN THE COOLING SEASON THE UNITS RUN UNTIL THE TEMPERATURE SET POINT IS ACHIEVED. IT CONTINUES TO RUN IN THE REHEAT MODE IF REQUIRED UNTIL THE HUMIDITY SET POINT IS ACHIEVED. UPON REACHING BOTH SET POINTS THE UNIT SHUTS OFF AND THE OA DAMPER CLOSES. IN THE HEATING SYSTEM THE HEAT STRIP LOCATED IN THE RETURN AIR IS ENERGIZED TO MAINTAIN SPACE TEMPERATURE.

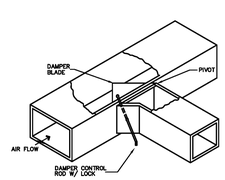
7 RTU 1-2 CONTROLS

N.T.S



8 FLEX DUCT TAKE-OFF WITH VOLUME DAMPER

N.T.S.



9 TYP. BOOT TAP WITH DAMPER

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23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

MECHANICAL DETAILS

Project number
Date
Drawn by
Checked by

M5.1

Scale

GENERAL PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. THE PLUMBING CONTRACTOR SHALL BE HELD TO HAVE VERIFIED ALL EXISTING CONDITIONS, INCLUDING SITE VISITATION, AND REVIEW OF AS BUILT DOCUMENTATION AS APPLICABLE PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF ANY MATERIALS OR EQUIPMENT ON THIS PROJECT.
3. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACK FILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
5. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS, PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
6. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS AND ARE CONSIDERED TO BE ONE SET OF DOCUMENTS. BENDS OFFSETS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE AND FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL COST. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
7. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND PLUMBING FIXTURES INCLUDED IN CONTRACT. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED TRADESMEN.
8. ENGINEER OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS TO BE LICENSED IN THE STATE OF FLORIDA. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST
9. THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING ON COMPANY LETTER HEAD ALL ITEMS VALUE ENGINEERED OR OMITTED FROM ENTIRE PROJECT. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.
10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
11. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
12. THE INVERT ELEVATIONS OF DRAINAGE PIPING LEAVING THE BUILDING ARE APPROXIMATE AND MAY VARY DEPENDING ON FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH SITE CIVIL AS REQUIRED TO ASSURE THAT A CONNECTION TO THE SANITARY SEWER SYSTEM CAN BE COMPLETED. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF THE GROUND ROUGH.
13. WATER DISTRIBUTION PIPING SHALL BE TYPE "L" COPPER.
14. ALL PVC SHALL BE SOLID CORE NO CELLULAR CORE.
15. UNLESS OTHERWISE INDICATED ON THE PLAN, THE SOIL, WASTE AND RAINWATER PIPING MAY BE PVC. PVC MAY NOT BE USED THROUGH RATED ASSEMBLIES OR IN RETURN AIR PLENUMS.
16. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. ISOLATION VALVES LOCATED IN CEILING CAVITIES ABOVE HARD CEILINGS SHALL BE SUPPLIED WITH APPROVED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
17. FURNISH AND INSTALL APPROVED, ENGINEERED PISTON TYPE MECHANICAL WATER HAMMER ARRESTORS AT EACH PLUMBING FIXTURE OR FIXTURE GROUP WITH QUICK CLOSING VALVES, INSTALLATION OF THE ARRESTOR SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, AND SHALL BE IN COMPLIANCE WITH FBC–P 604.9 AND ASSE 1010. THE ARRESTOR SHALL BE LOCATED WITHIN THE AFFECTIVE RANGE OF THE QUICK CLOSING VALVE, WITH ACCESS UNLESS THE ARRESTOR IS DESIGNED FOR CONCEALED APPLICATION AND IS APPROVED BY THE BUILDING DEPARTMENT. PRECISION PLUMBING PRODUCTS, JOSAM OR SOUIX CHIEF ARE ACCEPTABLE SUPPLIERS.
18. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
19. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
20. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
21. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
22. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
23. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL WALL CLEAN OUTS
24. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
25. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
26. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
27. ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH 1" THICK ARMAFLEX INSULATION WHERE USED IN A RETURN AIR PLENUM. PVC PIPING SHALL NOT BE ALLOWED. SEE PLANS FOR SIZE AND LOCATION OF PIPING.
28. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT–OFF.
29. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
30. DRAIN PIPE FROM ICE MAKERS ON ALL FLOORS ABOVE THE GROUND FLOOR SHALL BE INSULATED WITH 1" THICK ARMAFLEX FOR THE FIRST 10'–0" OR UNTIL THE BRANCH CONNECTS WITH THE RISER.
31. STUDOR MINI/MAXI AIR ADMITTANCE VALVES OR AN APPROVED EQUAL MAY BE USED AS AN ALTERNATE TO VENT PIPING THROUGH ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL. THE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 917 OF THE FLORIDA BUILDING CODE–PLUMBING AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
32. ALL FLOOR DRAINS NOT OTHERWISE PRIMED WITH INDIRECT WASTE SHALL BE PRIMED FROM THE NEAREST DOMESTIC WATER FIXTURE. PROVIDE TRAP GUARD PRODUCT ON ALL FLOOR DRAINS. REF. FLOOR DRAIN PRIMING DETAIL.
33. DRYWELL LOCATIONS INDICATED ON THE CONSTRUCTION DOCUMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND THE CIVIL ENGINEER PRIOR TO PLACEMENT AS REQUIRED.
34. PLUMBING CONTRACTOR SHALL PROVIDE ENGINEER WITH AS–BUILT DRAWINGS UPON COMPLETION.
35. UNLESS OTHERWISE SPECIFIED, THE PLUMBING CONTRACTOR SHALL PROVIDE MOTOR STARTERS AS REQUIRED FOR ALL PLUMBING RELATED EQUIPMENT. THE STARTERS SHALL BE MATCHED TO THE EQUIPMENT AND THE SERVICE VOLTAGE. PHASE LOSS MONITORS/PROTECTION SHALL BE REQUIRED ALL THREE PHASE EQUIPMENT. COORDINATE PRIOR TO ORDERING/PURCHASING/INSTALLATION.
36. CONTRACTOR SHALL SUBMIT FOR APPROVAL (BEFORE ORDERING OR INSTALLING SUCH UNITS) TO THE MECHANICAL ENGINEER A TYPED LIST OF ALL BACKFLOW PREVENTERS TO BE USED FOR PROJECT.

CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURERS' SHOP DRAWINGS.

ALL EQUIPMENT SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.

PLUMBING SYMBOL LEGEND

SAN	SANITARY PIPE
VNT	SANITARY VENT
GRSE	GREASE LINE
STRM	STORM LINE
c	CONDENSATE LINE
	INDIRECT WASTE
X"ø CW	DOMESTIC COLD WATER LINE
X"ø HW	DOMESTIC HOT WATER LINE
X"ø HWR	HOT WATER RECIRCULATION
X"ø HW 140	HOT WATER 140°
	EXISTING PIPE
	DEMO
	DOMESTIC WATER DOWN
	DOMESTIC WATER UP
	BALL VALVE
	ISOLATION VALVE W/ACCESS DOOR
	VALVE IN BOX
	WATER HAMMER ARRESTER (PDI–A ETC.)
	GAS EQUIPMENT LABEL
	CONNECT TO EXISTING AT THIS LOCATION
	POINT OF DEMO

NOTE: NOT ALL SYMBOLS MAY APPLY TO PLANS

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HW	HOT WATER
AFF	ABOVE FINISHED FLOOR	HWR	HOT WATER RETURN
AHU	AIR HANDLING UNIT	KS	KITCHEN SINK
CI	CAST IRON	LAV	LAVATORY
CONT.	CONTINUATION	MCP	MAIN CONDENSATE PUMP
CHP	CHILLED WATER PUMP	NEW	NEW
CH	CHILLER	NTS	NOT TO SCALE
CONV	CONVERTER	OD	OVERFLOW DRAIN
COND	CONDENSATE	P	PUMP
CP	CONDENSATE PUMP	PRV	PRESSURE REDUCING VALVE
CTG	CLEAN–OUT TO GRADE	RD	ROOF DRAIN
CT	COOLING TOWER	RE	RELOCATE EXISTING
CW	COLD WATER	REF	REFRIGERATOR
Cu.	COPPER	RO	REVERSE OSMOSIS
DCW	DOMESTIC COLD WATER	RW	RAIN WATER
DHW	DOMESTIC HOT WATER	RWL	RAIN WATER LEADER
DHWR	DOMESTIC HOT WATER RECIRC.	SK	SINK
EWC	ELECTRICAL WATER COOLER	SHWR	SHOWER
EWH	ELECTRICAL WATER HEATER	SST	STAINLESS STEEL
EX	EXISTING	SOV	SHUT OFF VALVE
FCU	FAN COIL UNIT	TK	TANK
FCO	FLOOR CLEAN OUT	TRP	TRANSFER PUMP
FD	FLOOR DRAIN	TUB/SH	BATH TUB W/SHOWER HEAD
GWH	GAS WATER HEATER	UR	URINAL
H	HUMIDIFIER	VTR	VENT THRU ROOF
HB	HOSE BIBB	WC	WATER CLOSET
HC	HANDICAPPED	WCCH	WATER COOLED CHILLER
HS	HAND SINK	WCO	WALL CLEAN OUT
HW	HOT WATER	WM	CLOTHES WASHING MACHINE
		WTS	WATER TEMPERATURE SENSOR

NOTE: NOT ALL ABBREVATIONS MAY APPLY TO PLANS

PLUMBING SHEET INDEX

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SHOP DRAWINGS

PRIOR TO COMMENCING ANY WORK, FABRICATING PIPING, OR ORDERING EQUIPMENT THE PLUMBING CONTRACTOR SHALL PRODUCE AND PROVIDE TO THE ARCHITECT AND ENGINEER A FULLY COORDINATED SET OF SHOP DRAWINGS FOR ALL PLUMBING WORK. THESE PLANS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL INCLUDE FIELD VERIFIED STRUCTURAL INFORMATION AND COORDINATION WITH ALL OTHER ENGINEERING AND ARCHITECTURAL TRADES AND CONTRACTORS.

PLUMBING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS IN AUTOCAD 2009 FORMAT WITH A DATED CONTRACTOR OF RECORD TITLE BLOCK/SEAL. PLANS SHALL SHOW PIPE ROUTING, PIPE SIZES, OFFSETS, EBLOWS, TRANISITIONS, RISERS, CONNNECTIONS, ACCESS AREAS, MOUNTING/INSTALLATION METHODS AND SUPPORTS, ETC.

THE SHOP DRAWINGS SHALL PROVIDE A COMPLETE WORKING SYSTEM THAT SHALL NOT REQUIRE ANY ADDITIONAL COSTS TO THE OWNER.

THE FOLLOWING AREAS SHALL BE HAVE THE UTMOST ATTENTION: TIKI BAR, INSIDE BAR

SITE / CIVIL NOTE:

ALL STORM DRAIN CONNECTIONS ARE SHOWN ON THE SITE / CIVIL DRAWINGS. ALL LOCATIONS OF NEW & EXISTING PIPE ARE APPROXIMATE, COORDINATE UNDER GROUND UTILITIES WITH CIVIL'S DRAWINGS AND UTILITY COMPANY.

THE INVERT ELEVATIONS OF DRAINAGE PIPING LEAVING THE BUILDING ARE APPROXIMATE AND MAY VARY DEPENDING ON FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION CIVIL AS REQUIRED TO ASSURE THAT A CONNECTION TO THE SANITARY SEWER SYSTEM CAN BE COMPLETED. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF THE GROUND ROUGH.

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1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

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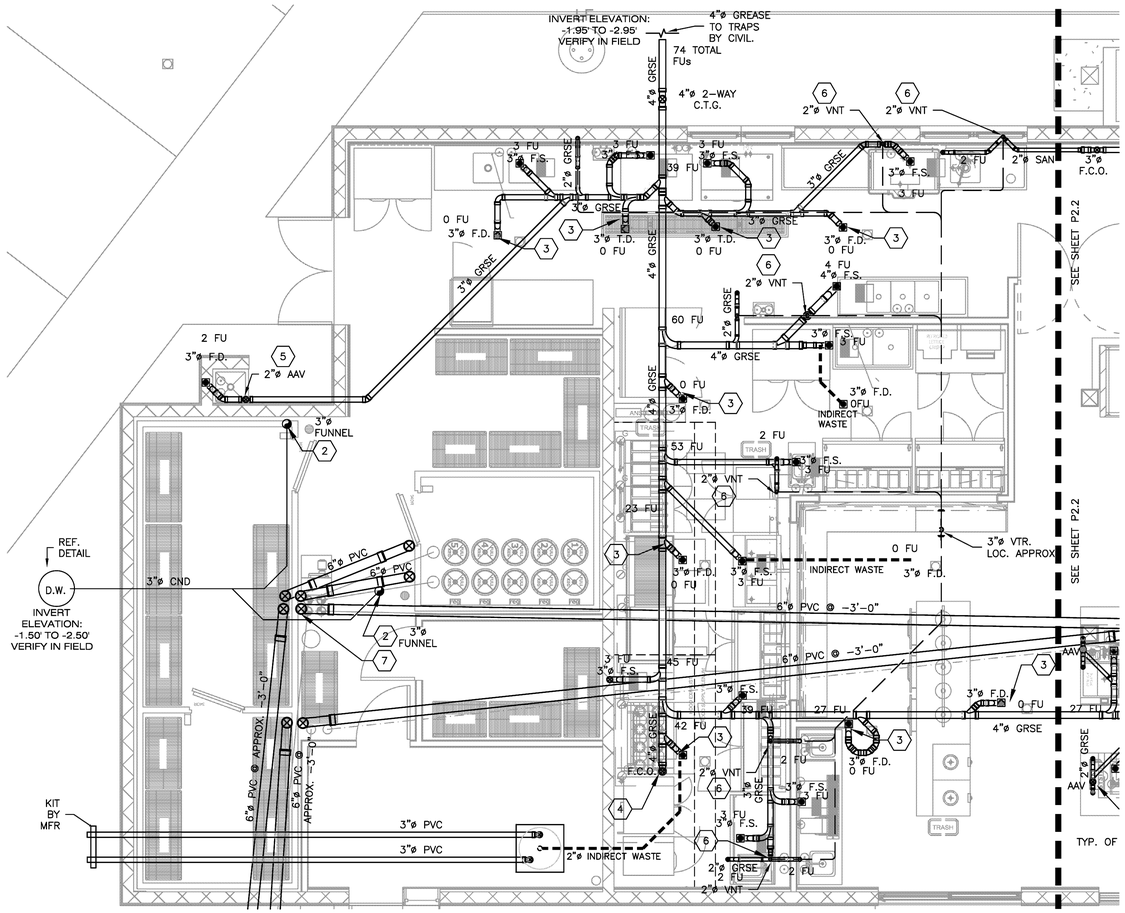
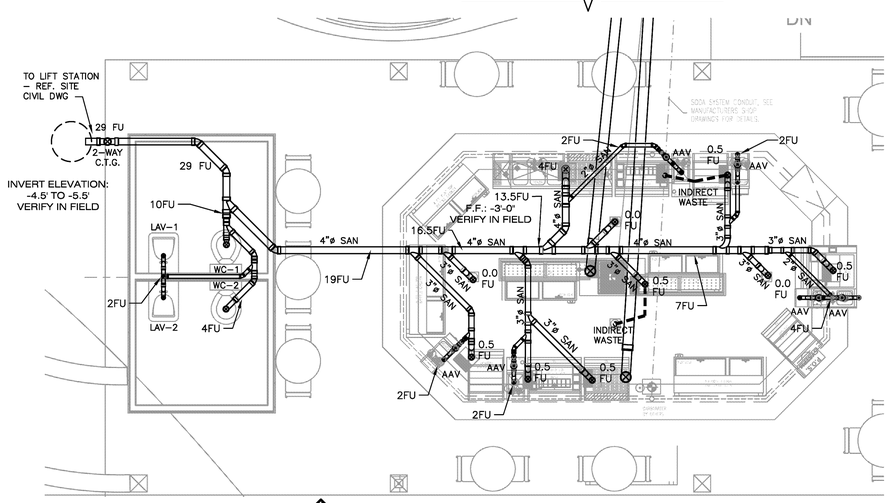


N SANITARY FLOOR PLAN - WEST

SCALE 1/4" = 1'-0"



N SANITARY FLOOR PLAN - TIKI BAR

SCALE 1/4" = 1'-0"

SANITARY KEY NOTES:

1. THE SANITARY CONNECTION IS LOCATED APPROXIMATELY 5'-0" BEYOND THE BUILDING PERIMETER. REFERENCE THE SITE CIVIL DRAWINGS FOR CONTINUATION AND CONNECTION TO THE SEWAGE UTILITY.
2. PROVIDE A TRAPPED 3"ø HUB DRAIN.
3. PROVIDE A TRAP PRIMER FROM THE NEAREST SINK OR LAVATORY (REF DETAILS).
4. PROVIDE A WALL/FLOOR CLEAN OUT (REF DETAILS).
5. PROVIDE A "STUDOR" BRAND MECHANICAL AIR ADMITTANCE VALVE. INSTALLATION SHALL BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTION. MUST BE ACCESSIBLE. (REF DETAILS).
6. REFERENCE SANITARY ISOMETRIC FOR VENT PIPE CONFIGURATION.
7. COORDINATE ROUTING OF BEVERAGE CONDUIT WITH ALL OTHER PIPING, MAINTAINING MAXIMUM OF TWO LONG-RADIUS ELBOWS PER RUN. DEPTH OF PIPING IS APPROXIMATE; TIKI BAR FLOOR IS APPROXIMATELY 3' LOWER THAN MAIN BUILDING. COORDINATE EASEMENT ELEVATION WITH SITE CIVIL.

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SANITARY FLOOR PLAN - WEST

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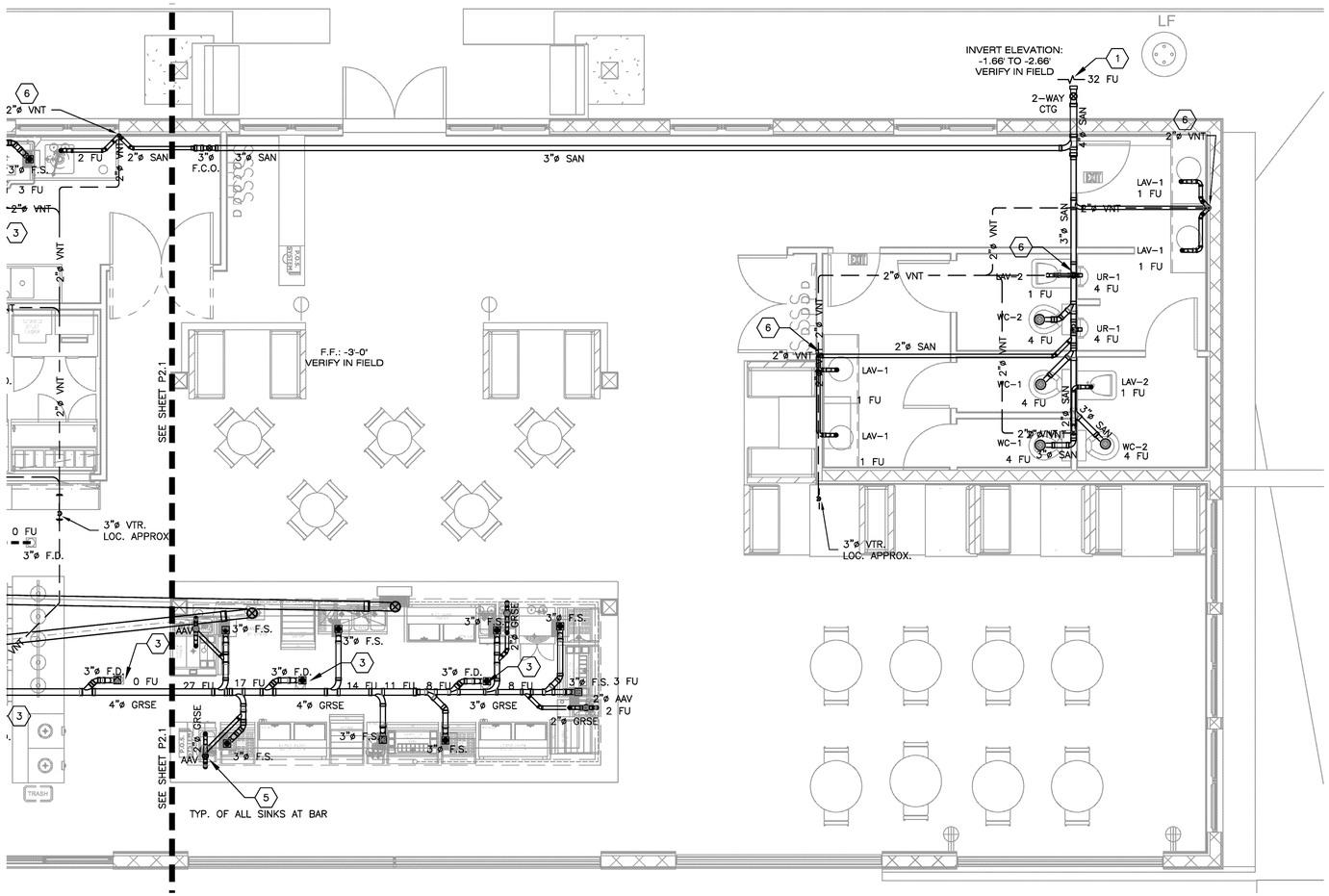

SANITARY FLOOR PLAN - EAST

SCALE 1/4" = 1'-0"

SANITARY KEY NOTES:

1. THE SANITARY CONNECTION IS LOCATED APPROXIMATELY 5'-0" BEYOND THE BUILDING PERIMETER. REFERENCE THE SITE CIVIL DRAWINGS FOR CONTINUATION AND CONNECTION TO THE SEWAGE UTILITY.
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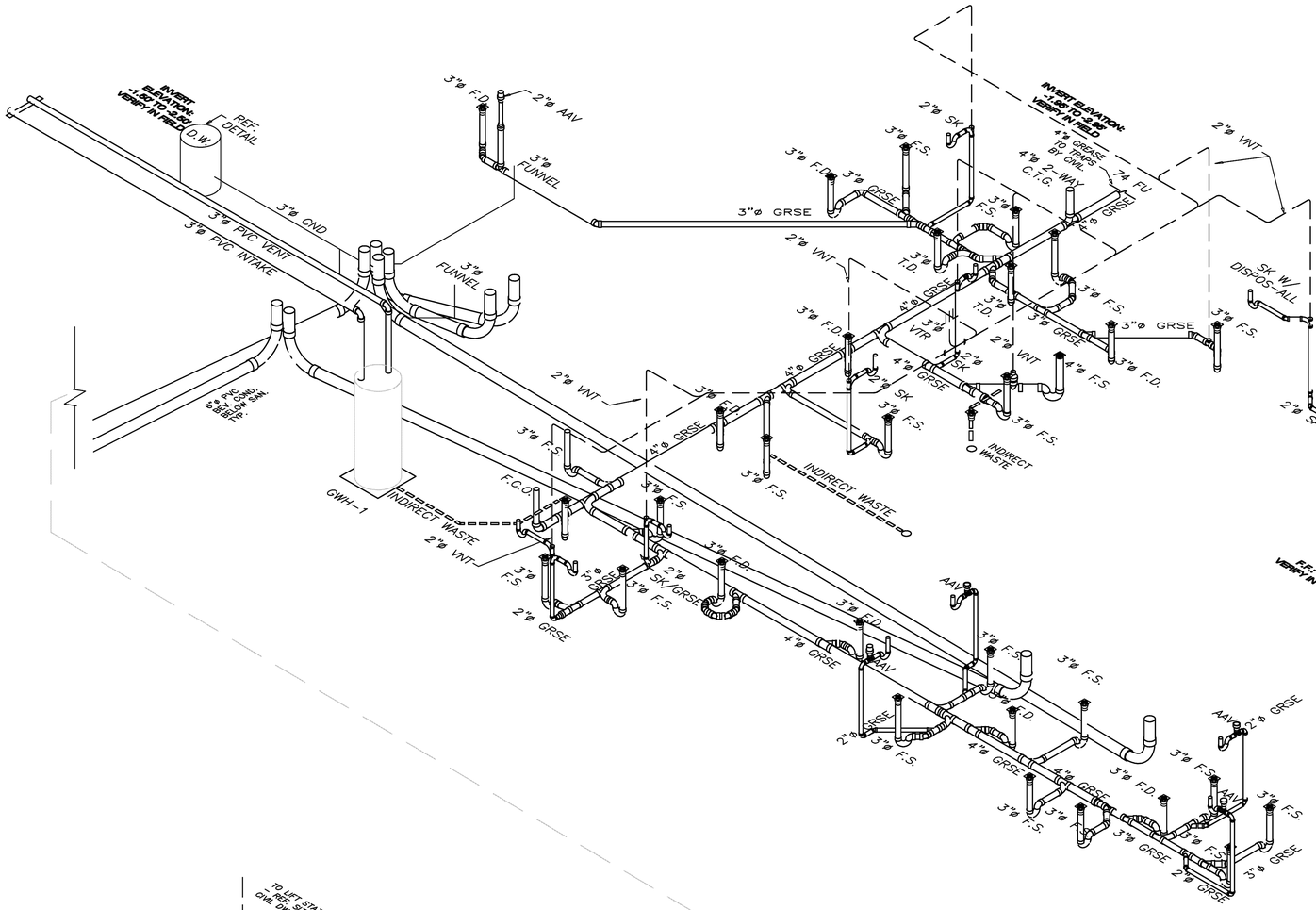

MAIN KITCHEN AREA - SAN. ISO.

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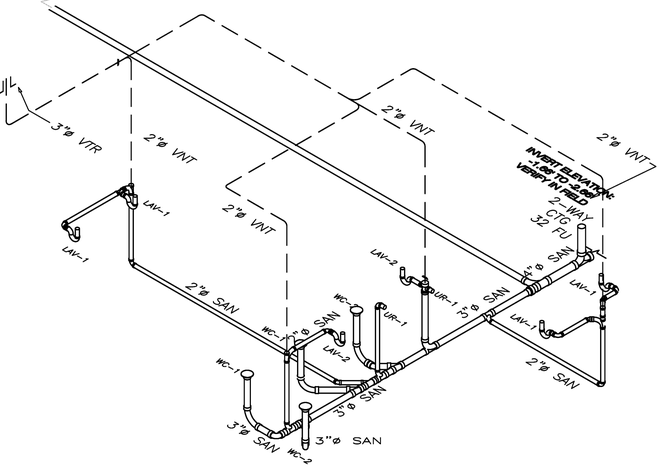

RESTROOM AREA - SAN. ISO.

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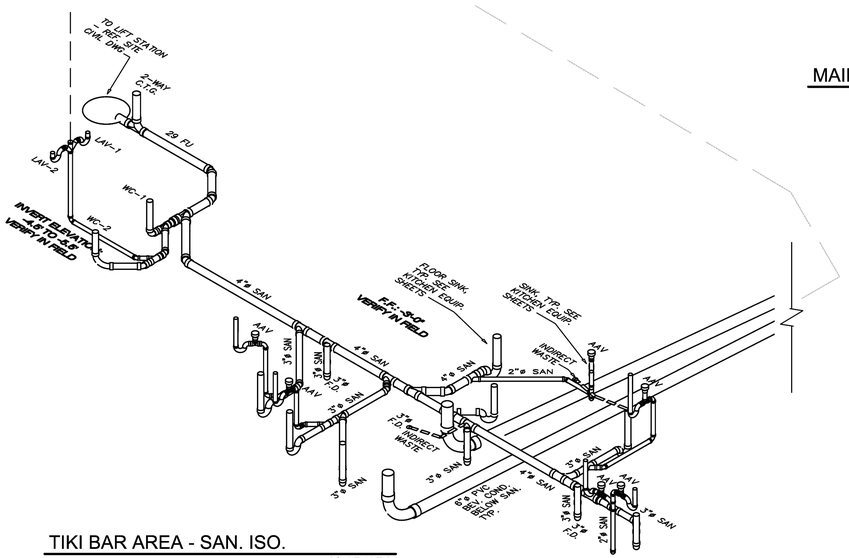

TIKI BAR AREA - SAN. ISO.

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MECHANICAL ENGINEER

DATE _____

Fagan

Eugene R Fagan III Architect #11668

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Eugene@FaganArchitect.com

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23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant

400 US Hwy 1, North Palm Beach, FL 33408

Project number

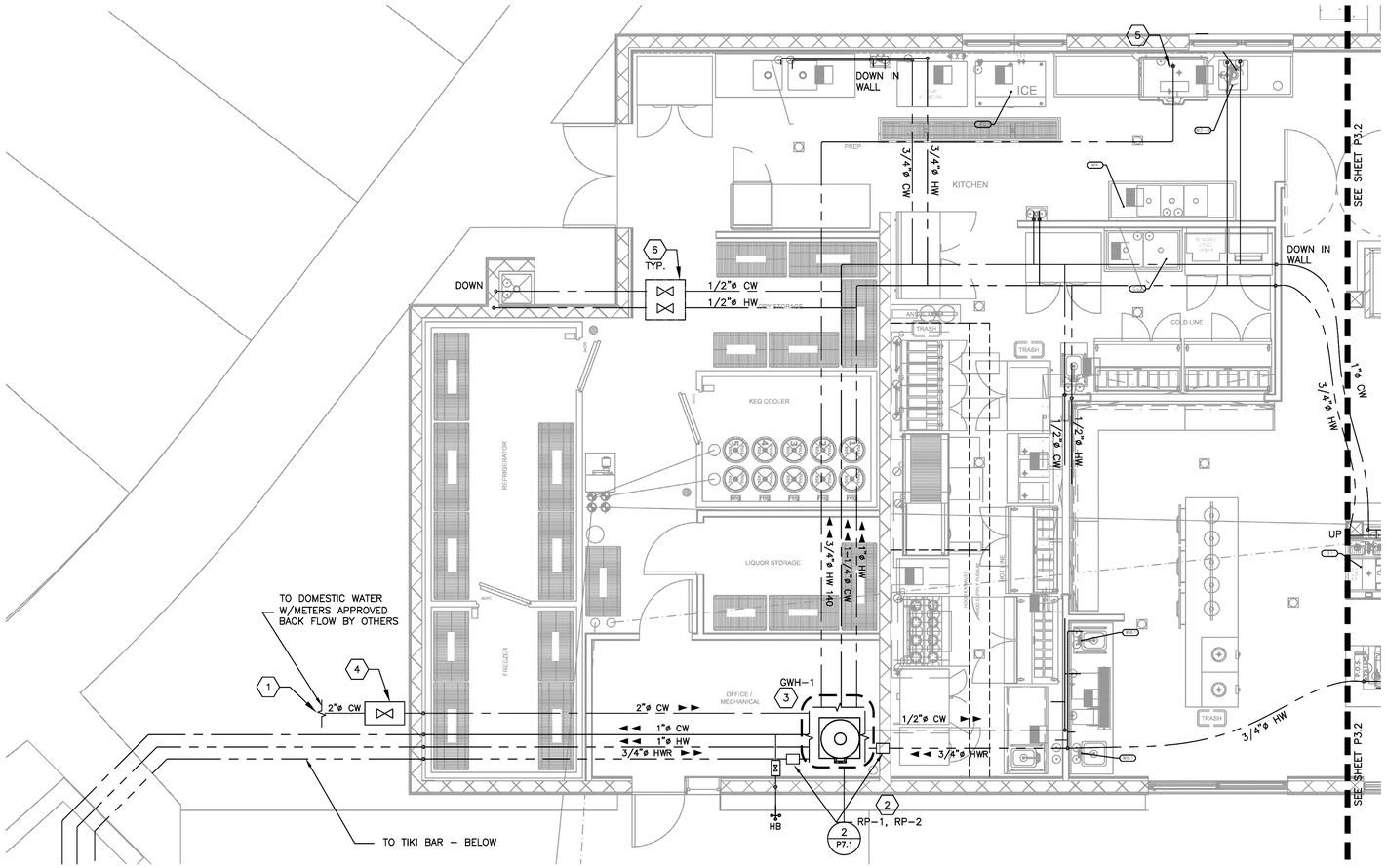
Date

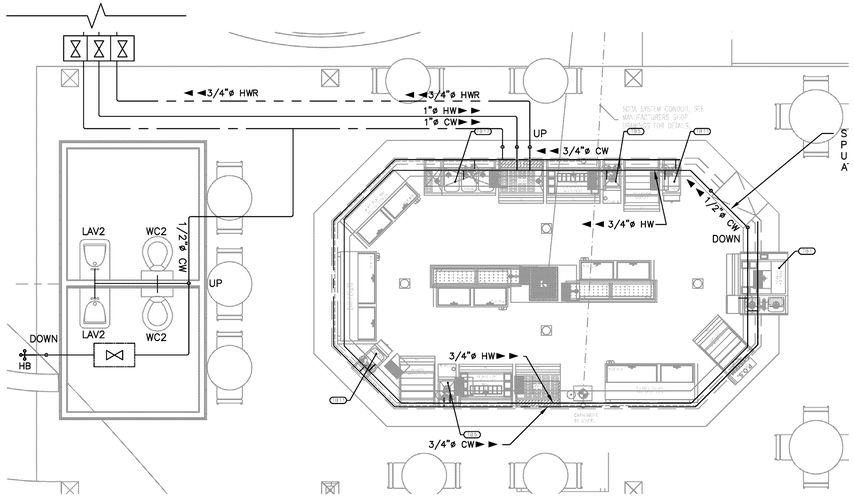
Drawn by

Checked by

P2.3

Scale





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DOMESTIC WATER FLOOR PLAN - WEST

SCALE 1/4" = 1'-0"

DOMESTIC WATER KEY NOTES:

1. THE DOMESTIC WATER CONNECTION IS LOCATED APPROXIMATELY 5'-0" BEYOND THE BUILDING PERIMETER. REFERENCE THE SITE CIVIL DRAWINGS FOR CONTINUATION AND CONNECTION TO THE DOMESTIC WATER SYSTEM. A BACK-FLOW REGULATOR, AND METER, APPROVED BY THE UTILITY COMPANY IS REQUIRED. THE METER AND BACK-FLOW REGULATOR SHALL BE PROVIDED BY OTHERS.
2. PROVIDE 2 HOT WATER RE-CIRCULATION PUMPS. LOCATE PUMPS IN AN ACCESSIBLE LOCATION IN THE VICINITY OF THE WATER HEATERS (REF WATER HEATER SCHEMATIC DETAIL).
3. SEE WATER HEATER PIPING SCHEMATIC DETAIL FOR PIPING AND VALVES.
4. PROVIDE A NON-METALLIC VALVE BOX LOCATED APPROXIMATELY AS SHOWN. COORDINATE FINAL LOCATION WITH ARCHITECT AND LANDSCAPE DESIGN. SET THE TOP OF THE BOX FLUSH WITH THE FINISHED GRADE. THE BOX LID SHALL BE EMBOSSED WITH THE LABEL (DOMESTIC WATER).
5. PROVIDE WATER HAMMER ARRESTOR (REF GENERAL PLUMBING NOTES).
6. PROVIDE ISOLATION VALVE WITH ACCESS PANEL.

KITCHEN AND FOOD SERVICE GENERAL CONDITIONS

1. THE PLUMBING CONTRACTOR SHALL BE HELD TO HAVE COMPLETELY FAMILIARIZED HIMSELF WITH THE FOOD SERVICE DESIGNERS PLANS AND THE SERVICE REQUIREMENTS OF THE APPLIANCES BEING SUPPLIED.
2. UNLESS OTHERWISE INDICATED, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL FINAL INTERCONNECTIONS BETWEEN THE FOOD SERVICE APPLIANCES AND THE BUILDING SERVICE. THIS INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OBERABLE SYSTEM, INCLUDING BUT NOT LIMITED TO FITTINGS, SHUT OFF VALVES, TRAPS, TAIL PIECES, STRAINERS AND PRESSURE REDUCING VALVES AS APPLICABLE.
3. THE REQUIREMENTS OF ITEM 2 ABOVE SHALL INCLUDE ALL FOOD SERVICE EQUIPEMENT WHETHER BEING SUPPLIED BY AN EQUIPMENT SUPPLIER OR DIRECTLY BY THE OWNER.
4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WIT H THE FOOD SERVICE DESIGNER AND EQUIPMENT MANUFACTURER TO MAKE SURE THAT THE INTERCONNECTS HAVE BEEN COORDINATED AS REGARDS SIZED AND HAVE BEEN INCLUDED IN THE CONTRACTORS BID.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CRITICAL DIMENSIONS ON THE FOOD SERVICE DESIGNER'S AND ARCHITECTS OWNER APPROVED PLANS. ANY DIMENSIONAL DATA SHOWN ON "P" SHEET IS PROVIDED FOR REFERENCE ONLY AND THE CONTRACTOR SHALL NOT RELY ON.
6. THE PLUMBING CONTRACTOR SHALL FURNISH CONDENSATE DRAINS AND OTHER INDIRECT WASTE LINES FROM REFIGERATION AND APPLICABLE FOOD SERVICE EQUIPMENT.
7. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE FLOOR CUTTING AND PATCHING. COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR AND STRUCTURAL ENGINEER AS REQUIRED.
8. THE PLUMBING CONTRACTOR SHALL FURNISH THE ENGINEER AND ARCHITECT A COMPLETE SET OF AS BUILT DRAWINGS UPON COMPLETTION OF THE JOB. THE HORIZONTAL AND VERTICAL POSITION OF ALL UNDERSLAB PIPING SHALL BE CLEARLY INDICATED.

RGD JOB# 10-4088

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	DJC	RGD
1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

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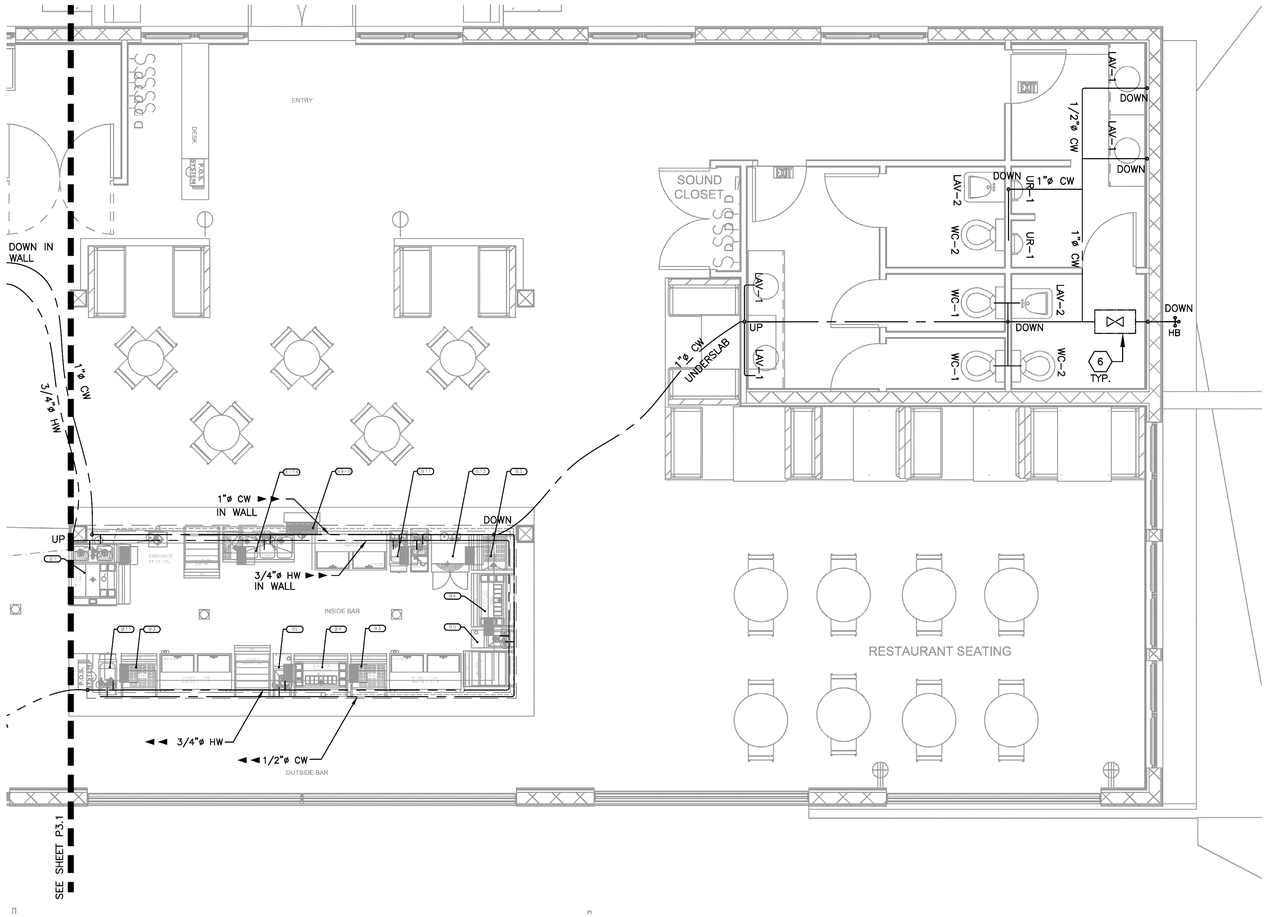

DOMESTIC WATER FLOOR PLAN - EAST

SCALE 1/4" = 1'-0"

DOMESTIC WATER KEY NOTES:

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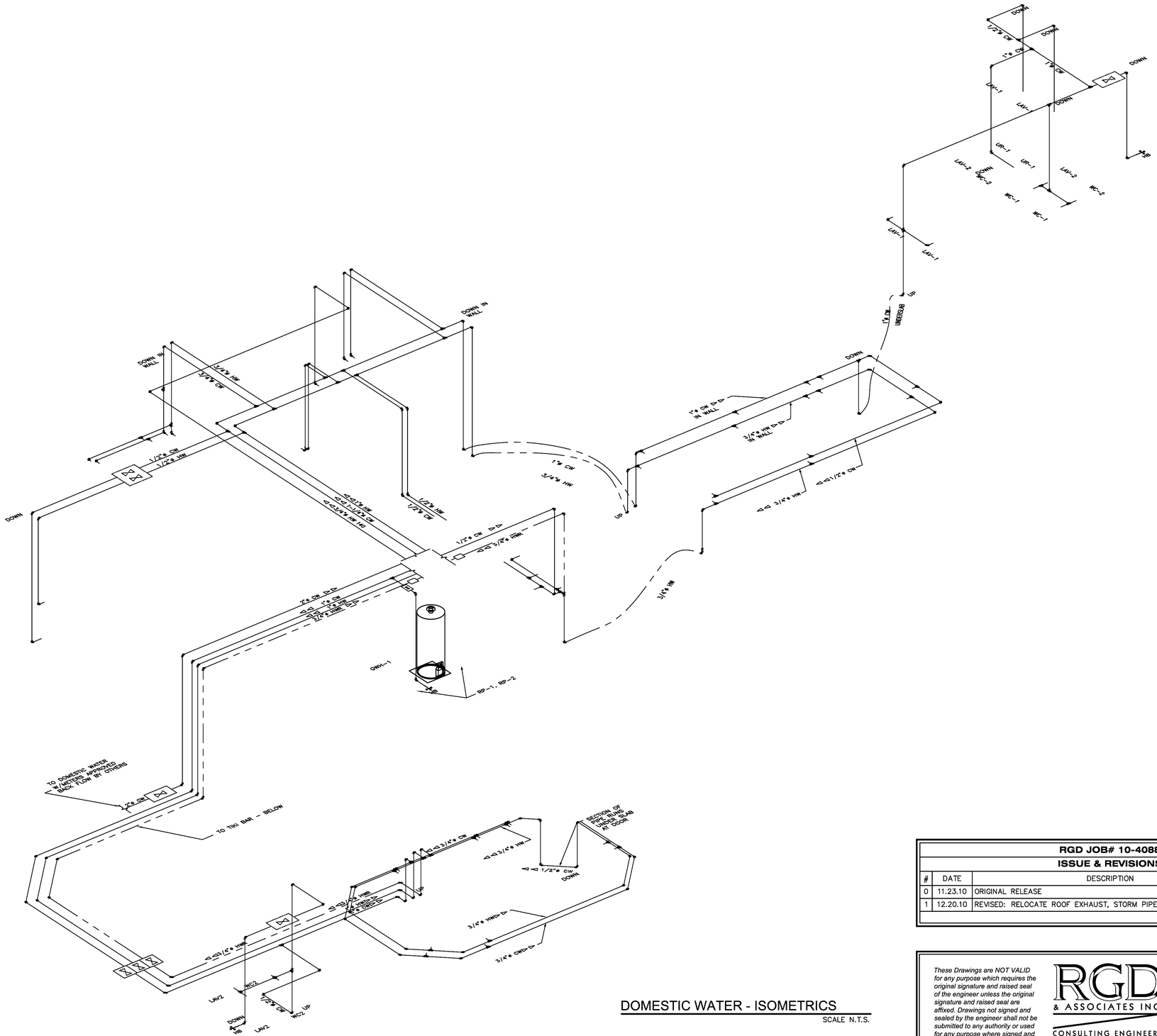

DOMESTIC WATER - ISOMETRICS

SCALE N.T.S.

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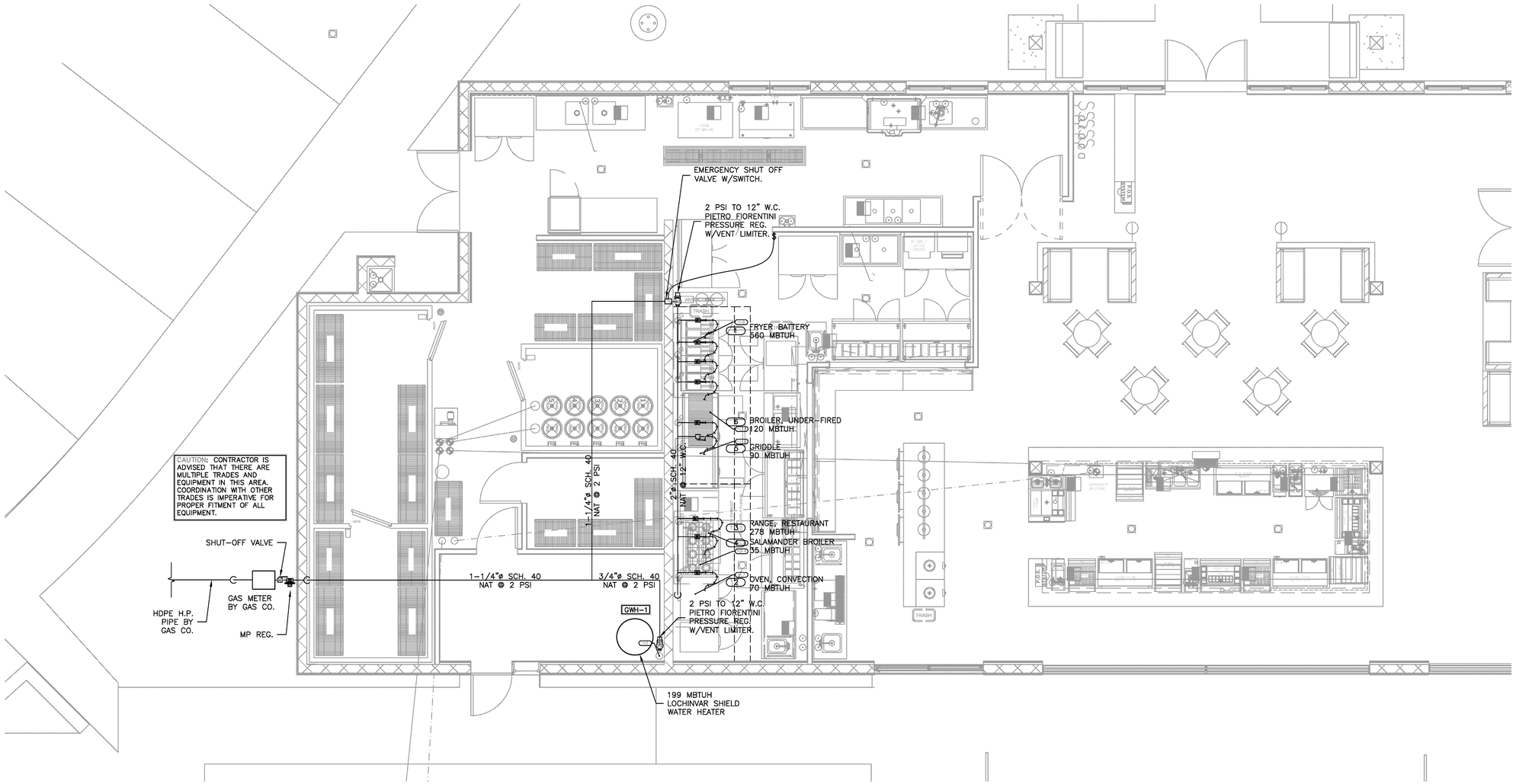

GAS - PLAN

SCALE 1/4" = 1'-0"

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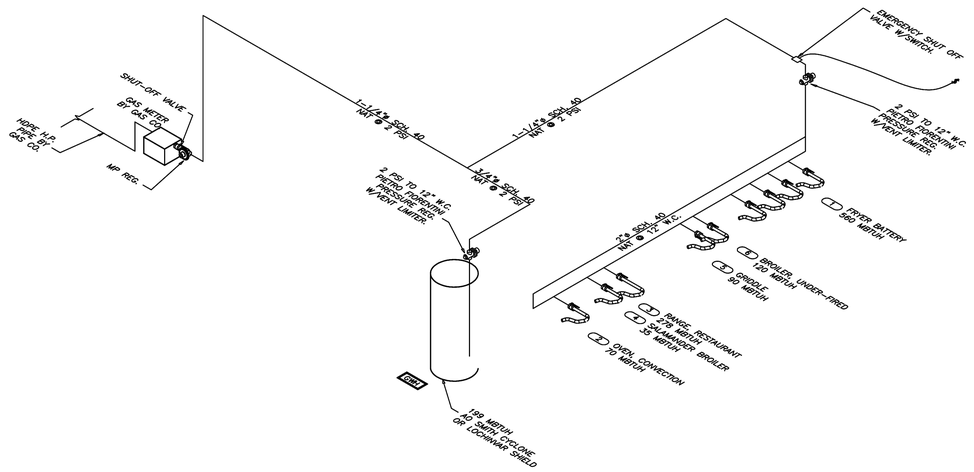
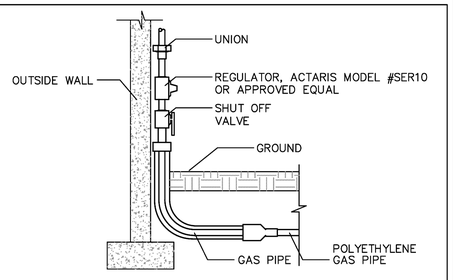


GAS - ISOMETRICS

SCALE N.T.S.



1. PERFECTION CORPORATION POLY RISER OR EQUAL.

1 POLY RISER DETAIL

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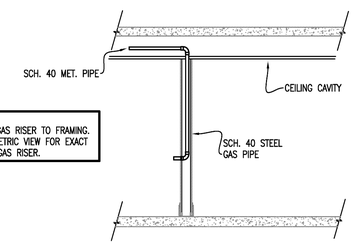

NOTE:
SECURE GAS RISER TO FRAMING. SEE ISOMETRIC VIEW FOR EXACT SIZE OF GAS RISER.

2 INWALL GAS INSTALLATION

N.T.S

GENERAL GAS NOTES

1. THE GAS SYSTEM SHALL BE INSTALLED TESTED IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE–FUEL GAS.
2. GAS PIPE SHALL BE STEEL OR WROUGHT–IRON PIPE COMPLYING WITH THE AMERICAN NATIONAL STANDARD FOR WROUGHT–STEEL AND WROUGHT–IRON PIPE, A.N.S.I. B36.10–1970. THREADED COPPER OR BRASS PIPE IN IRON SIZED MAY BE USED WITH GASES NOT CORROSIVE TO SUCH MATERIAL. ALUMINUM ALLOY PIPE SHALL NOT BE USED. TUBING: WHEN ACCEPTABLE TO THE SERVING GAS SUPPLIER, SEAMLESS
3. COPPER OR STEEL TUBING MAY BE USED WITH GASES NOT CORROSIVE TO SUCH MATERIAL. COPPER TUBING SHALL BE OF STANDARD TYPE K OR L OR EQUIVALENT, COMPLYING WITH SPECIFICATION ASTM B88–62 AND HAVING A MINIMUM WALL THICKNESS FOR EACH TUBING SIZE IN COMPLIANCE WITH ASTM SPECIFICATIONS. CONCEALED PIPING SHALL NOT BE SMALLER THAN 1/2 INCH IRON PIPE SIZE AND SHALL NOT BE LOCATED IN SOLID PARTITIONS.
4. WHERE PIPING PASSES THROUGH THE FOUNDATION IT SHOULD BE PROTECTED BY A SLEEVE AND SEALED TIGHT.
5. WHERE PIPING PASSES UNDER A BUILDING IT SHOULD BE RUN IN A WATER–TIGHT, VENTED CONDUIT.
6. ALL UNDERGROUND PIPING SHALL BE POLYETHYLENE IN ACCORDANCE WITH ASTM2513, SDR–11, AND FLORIDA BUILDING CODE FUEL GAS 403.11.
7. ALL GAS PIPING SHALL BE PITCHED NOT LESS THAN 1/4 INCH IN 15 FEET UNLESS GAS COMPANY CERTIFIES THAT THE GAS IS DRY.
8. PROVIDE DRIPS AT THE LOW POINTS FOR THE COLLECTION OF CONDENSATE AND DIRT.
9. PIPING SHALL NOT BE BENT AND SHALL BE SUPPORTED BY METAL HANGERS. SEE TABLE BELOW FOR SUPPORT SPACING.
10. BEFORE APPLIANCES ARE CONNECTED, PIPING SHALL STAND A PRESSURE OF AT LEAST SIX INCHES HG OR THREE PSIG FOR A PERIOD OF NOT LESS THAN TEN MINUTES WITHOUT SHOWING ANY DROP IN PRESSURE.
11. CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER'S SHOP DRAWINGS.
12. ALL ABOVE–GROUND PIPING SHALL BE BONDED AND/OR GROUNDED PER FLORIDA BUILDING CODE – FUEL GAS, SECTIONS 309 AND 310.

NEW CONNECTION SCHEDULE

INCLUDES ALL GAS FIRED EQUIPMENT

QTY	MARK	FIXTURE	(MBH)	CONNECTION SIZE	NOTES
1	1	FRYERS W/FILTER	560	SEE KITCHEN EQUIPMENT CONNECTION SCHEDULE BY KITCHEN EQUIPMENT SUPPLIER	1,2,3,4
1	2	CONVECTION OVEN	70		1,2,3,4
1	3	REST. RANGE	278		1,2,3,4
1	4	SALAMANDER BRLR.	35		1,2,3,4
1	5	GAS GRIDDLE	90		1,2,3,4
1	6	UNDER–FIRED BRLR.	120		1,2,3,4
1	GWH–1	GAS WATER HEATER	199	1/2"	1,2,3,4
TOTAL GAS DEMAND = 1,352 MBTU					

NOTES:

1. PROVIDE APPLIANCE REGULATORS AS REQUIRED. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.
2. CONTRACTOR SHALL VERIFY GAS INPUT WITH APPLIANCES.
3. CALCULATIONS BASED OF KITCHEN CONSULTANT PLANS REC'D: 11–19–10.
4. PROVIDE PIETRO FIORENTINI GAS VENT LIMITER/LIMITING REGULATOR(S).

NAT. GAS REQUIREMENTS

TOTAL MBTUH	TOTAL DEVELOPED PIPE LENGTH
1352	100'

MIN. SERVICE PIPE SIZE 1–1/4"ø SCH. 40 MET.
STAINLESS STEEL OR CORROSION RESISTANT PIPING.
(2 PSIG) UTILITY GAS 0.6 S.G.
PIPE SIZING PER TABLE 402.4(3).

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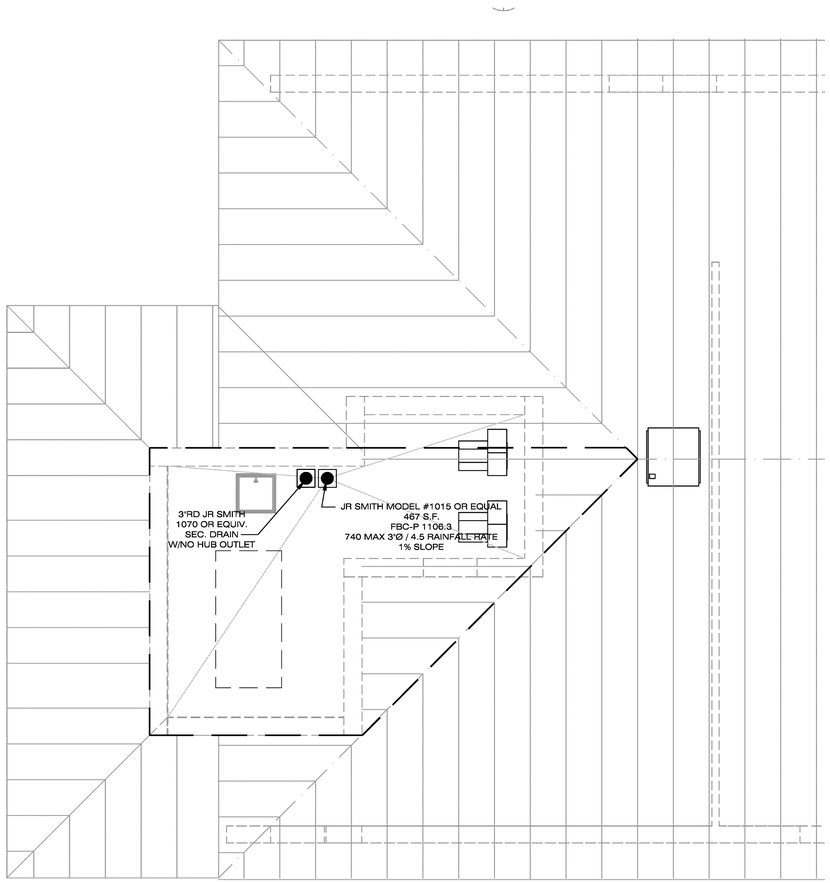

N STORM - ROOF PLAN

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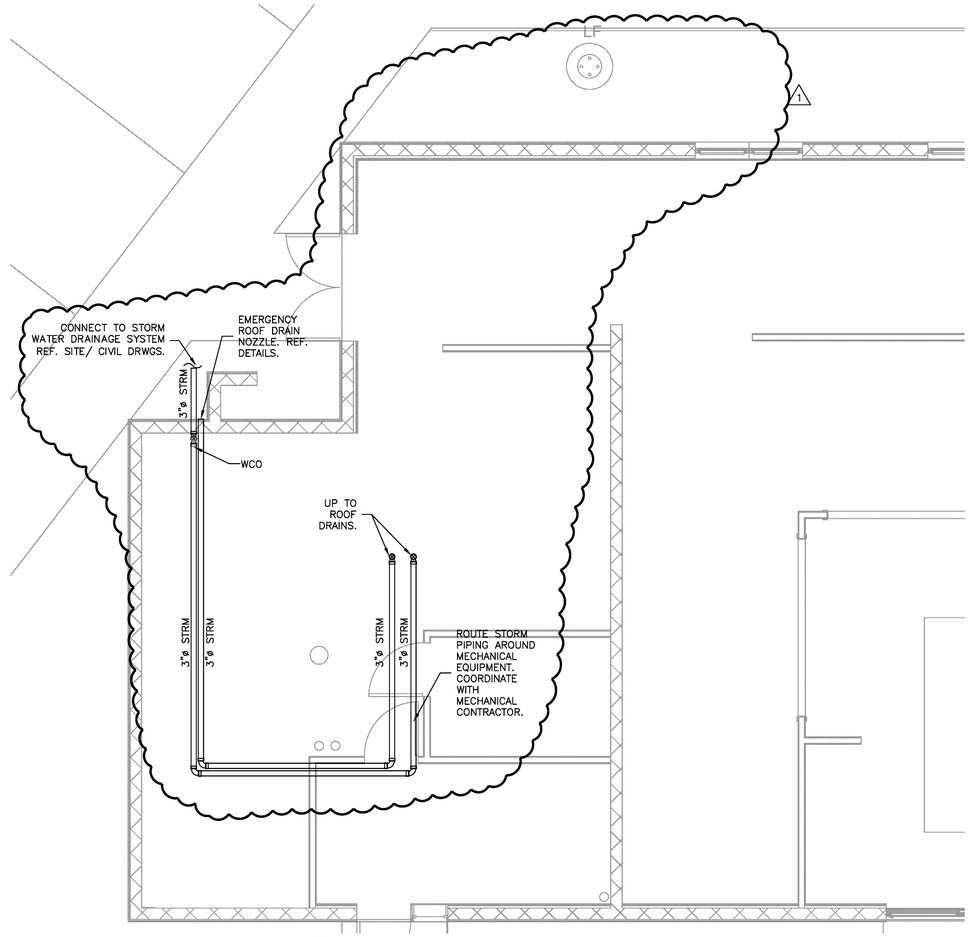

N STORM - 1ST FLOOR PLAN

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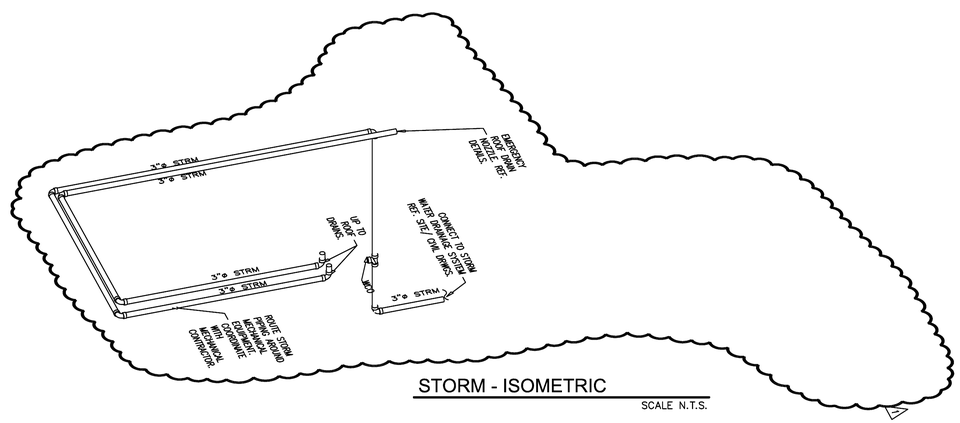

STORM - ISOMETRIC

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P5.1

Scale

GAS WATER HEATER SCHEDULE WITH PUMP

SELECTION			CAPACITY	SECONDARY TANK		PIPING		GAS	ELECTRIC		GENERAL		
MARK	MANUFACTURER	MODEL	US GAL.	US GAL.	STORAGE TEMP.	INLET (IN)	OUTLET (IN)	MBTUH	VOLTAGE/ PHASE	TOT. AMP	WEIGHT (LBS)	DIMENSIONS (IN)	NOTES
GWH–1	LOCHINVAR	SNR200–100	93	N/A	150°F	1.5"	1.5"	199	120/1/60	6.5	640	80"H X 28"W	1,2,3

EXPANSION TANK

MANUFACTURER	MODEL	TOT. GAL.	DIMENSIONS (IN)	CONNECTION SIZE
AMTROL	THERM–X–TROL ST25V	10.3	15⅜"ø X 19¼""H	¾"NPT

RECIRCULATION PUMPS

MANUFACTURER	MODEL	VOLTAGE/ PHASE	QUANTITY
GRUNDFOS	UP10–16BU	115/1/60	2

THERMOSTATIC MIXING VALVE

MANUFACTURER	MODEL
LAWLER	66–150 WATER CONTROLLER

(–) APPROVED EQUAL : AO SMITH

NOTES:

1. PROVIDE DRAIN PAN.
2. PROVIDE A WATER HEATER STAND.
3. PROVIDE A MANUFACTURES OPTION COMBINATION INTAKE/EXHAUST WALL TERMINATION. PAINT TO MATCH EXTERIOR.

PLUMBING FIXTURE SCHEDULE

UNIT	FIXTURE DESCRIPTION	MOUNTING HEIGHT	SPECIFICATIONS BY ARCHITECT	NOTES
WC–1	WATER CLOSET: FLOOR MOUNT FLUSH VALVE	FLOOR TO RIM 14 1/8"	KOHLER WELLCOMME K–4350 OR EQUAL ELONGATED BOWL – VITREOUS CHINA ELONGATED OPEN FRONT SEAT W/COVER 1" FLUSH VALVE 1.6 GPF	1,3
WC–2	WATER CLOSET: FLOOR MOUNT FLUSH VALVE HANDICAPPED	FLOOR TO RIM 17 1/4"	KOHLER HIGHCLIFF K–4368 OR EQUAL ELONGATED BOWL – VITREOUS CHINA ELONGATED OPEN FRONT SEAT W/COVER 1" FLUSH VALVE 1.6 GPF	1,3
UR–1	URINAL	STANDARD HEIGHT 17" H.C. HEIGHT 17"	KOHLER STANWELL K–4972–T 1 1/4" TOP SPUD, 1" FLUSH VALVE 1.6 GPF VITREOUS CHINA W/ JR SMITH 634 CARRIER SET CARRIERS FOR STANDARD AND HC HEIGHTS AS INDICATED ON PLANS	1,3
LAV–1	LAVATORY:	UNDER COUNTER	KOHLER "DEVONSHIRE" MODEL K–2336 OR EQUAL WHITE VITREOUS CHINA UNDERCOUNTER MOUNT	2
LAV–2	LAVATORY: WALL HUNG HANDICAPPED	FLOOR TO RIM 34"	KOHLER CHESAPEAKE WALL–MOUNT LAVATORY, 4" CENTERS MODEL K–1729 OR EQUAL KOHLER FINESSE CENTERSET LAVATORY FAUCET W/ WRIST CONTROL LEVER HANDLES MODEL K–13335–5 OR EQUAL	1
SK–1	MOP SINK	FLUSH WITH FINISHED FLOOR	ACORN MODEL TNC–32 (SQUARE). MUSTEE – 63.600A SERVICE SINK FAUCET – UPC 6 71031 00277 8 OR EQUAL MUSTEE – 65.700 HOSE AND HOSE HOLDER – UPC 6 71031 00196 2 OR EQUAL MUSTEE – 63.600 MOP HANGER – UPC 6 71031 00196 2 OR EQUAL	

NOTES:

1. COLOR AND TRIM FOR ALL FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT
2. MAKE AND MODEL OF LAV AND FAUCET SHALL BE SPECIFIED BY THE ARCHITECT.
3. ALL WATER CLOSETS AND URINALS SHALL BE PROVIDED WITH AUTOMATIC FLUSH VALVES EQUAL TO SLOAN OPTIMA PLUS MODEL 811 BATTERY POWERED FLUSHOMETER. LOW CONSUMPTION (1.6 GPF/13.2 LPF) REF SPECIFICATION SHEET FOR MORE INFORMATION.

PLUMBING DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL	QUANTITY	OUTLET (IN)	STRAINER HEAD (IN)	FUNCTION
FD–1	JR SMITH	2005–A	4	3"ø	6"ø	GENERAL SERVICE FLOOR DRAIN FOR USE IN SHOWERS, TOILETS, KITCHEN, AND OTHER FINISHED AREAS WHERE FOOT TRAFFIC IS EXPECTED.
FS–1	ZURN	FD2378	2	2"ø	–	GENERAL SERVICE CAST IRON FLOOR SINK WITH WHITE PORCELAIN FINISH AND ABS DOME STRAINER. PROVIDE OPTIONAL GRATE TOP AS REQUIRED.

(–) APPROVED EQUAL : JR SMITH, ZURN, AND WATTS

NOTES:

1. COORDINATE FINISH WITH THE ARCHITECT AND/OR OWNER.
2. PROVIDE A TRAP PRIMER CONNECTION FROM THE FACTORY.

BACKFLOW PREVENTER SCHEDULE

MARK	MANUFACTURER	FAMILY	MODEL	PIPE SIZE	BACKFLOW TYPE	CONNECTION TYPE	DIMENSIONS (IN)	WEIGHT (LBS)	NOTES
BFP–1	WATTS	SERIES CU7	T.B.D.	½"–1"	DOUBLE DET.	NPT	----	----	1

NOTES:

1. EXACT MODEL TO BE DETERMINED BY PLUMBING CONTRACTOR, DEPENDING ON FIXTURE BEING PROTECTED. PROVIDE PROTECTION AGAINST BACKFLOW FOR ALL WATER PUMPS, FILTERS, SOFTENERS, TANKS, COMMERCIAL DRINKING WATER DISPENSERS, WATER COOLERS, ICE MAKERS AND ALL OTHER APPLIANCES THAT HANDLE OR TREAT POTABLE WATER. SEE FOOD SERVICE PLANS FOR EQUIPMENT.

WATER HAMMER ARRESTOR SIZING CHART

FOR PRESSURES UP TO 65 PSIG

LENGTH OF PIPE	ZURN SHOKTROL WATER HAMMER ARRESTORS, Z1700 SERIES					
	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1 ¼"	1 ½"	2"
25	ONE #100	ONE #100	ONE #200	ONE #300	ONE #400	ONE #500
50	ONE #100	ONE #200	ONE #300	ONE #400	ONE #500	ONE #600
75	ONE #200	ONE #300	ONE #400	ONE #100 & ONE #500	ONE #600	ONE #500 & ONE #600
100	ONE #300	ONE #400	ONE #500	ONE #600	ONE #300 & ONE #600	TWO #600
125	ONE #300	ONE #400	ONE #600	ONE #100 & ONE #600	ONE #500 & ONE #600	ONE #500 & TWO #600
150	ONE #400	ONE #500	ONE #600	ONE #400 & ONE #600	TWO #600	THREE #600
ZURN SHOKTROL SIZE Z1700 SERIES	#100	#200	#300	#400	#500	#600
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE-UNITS	1–11	12–32	33–60	61–113	114–154	155–330

RGD JOB# 10-4088

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	DJC	RGD
1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

These Drawings are NOT VALID for any purpose which requires the original signature and raised seal of the engineer unless the original signature and raised seal are affixed. Drawings not signed and sealed by the engineer shall not be submitted to any authority or used for any purpose where signed and sealed documents are required.

RGD & ASSOCIATES INC.
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WWW.RGDENGINEERS.COM

ROBERT DAVENPORT P.E.
FLORIDA P.E. NO. 31932
CERT OF AUTH 5454
MECHANICAL ENGINEER

DATE _____

Fagan

Eugene R Fagan III Architect #11668

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Palm Beach Gardens, Fl 33418
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Copyrite 2010

23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

PLUMBING SCHEDULES

Project number

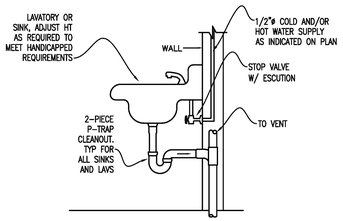
Date

Drawn by

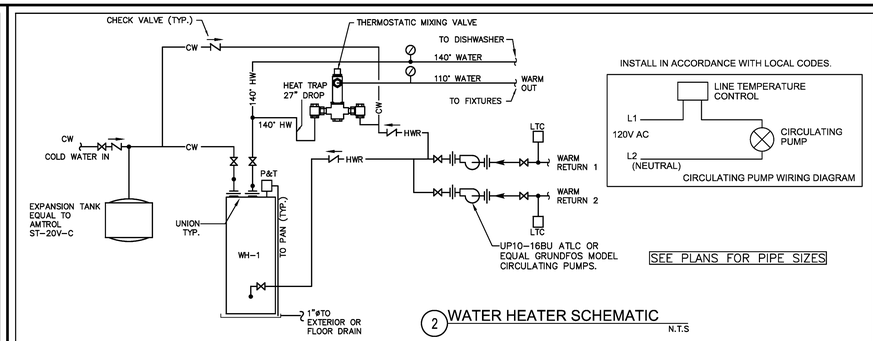
Checked by

P6.1

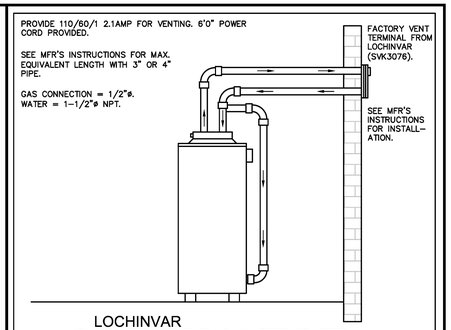
Scale



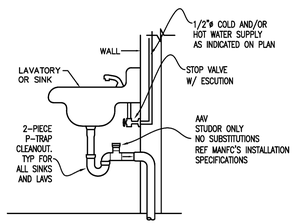
1 TYPICAL SINK/LAV INSTALLATION
N.T.S



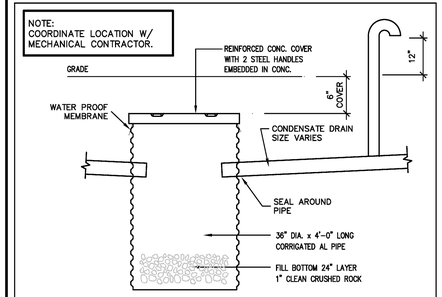
2 WATER HEATER SCHEMATIC
N.T.S



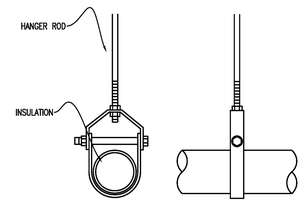
3 LOCHINVAR POWER VENT GAS WATERHEATER
N.T.S



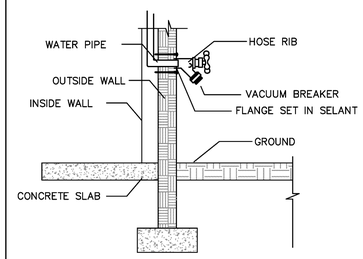
4 TYPICAL SINK/LAV INSTALLATION W/AIR ADMITTANCE VALVE
N.T.S



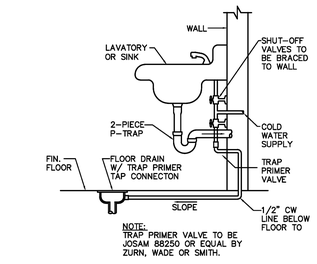
5 DRY WELL DETAIL
N.T.S



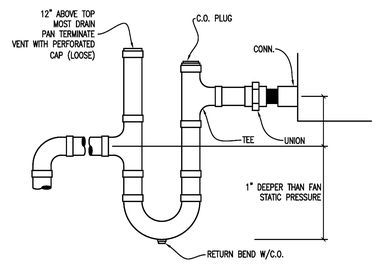
6 PIPE HANGER DETAIL
N.T.S



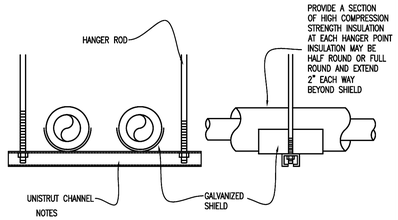
7 HOSE BIBB DETAIL
N.T.S



8 TRAP PRIME DETAIL
N.T.S



9 CONDENSATE PIPING DETAIL
N.T.S

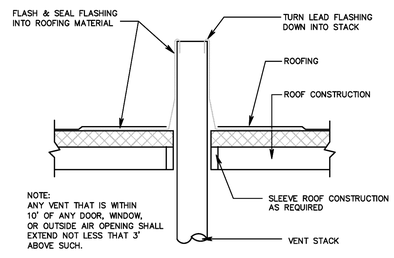


NOTES

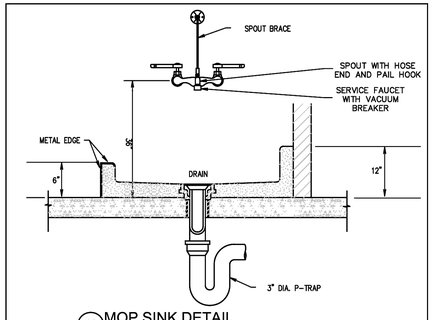
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.

2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

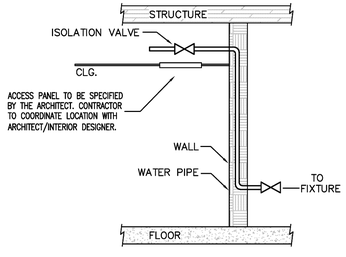
10 INSULATED MULTIPLE PIPE HANGER DETAIL
N.T.S



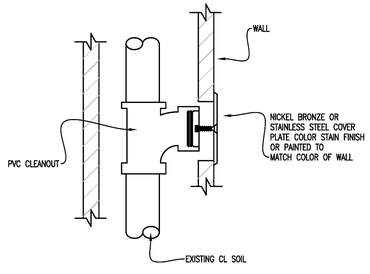
11 ROOF VENT DETAIL
N.T.S



12 MOP SINK DETAIL
N.T.S



13 TYPICAL FIXTURE RISER DETAIL
FOR 1ST FLOOR
N.T.S



14 WALL CLEAN OUT PVC NON FIRE RATED WALL DETAIL
N.T.S

RGD JOB# 10-4088

ISSUE & REVISIONS

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23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant

400 US Hwy 1, North Palm Beach, FL 33408

PLUMBING DETAILS

Project number

Date

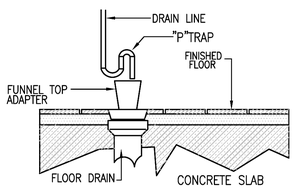
Drawn by

Checked by

P7.1

Scale

DRAIN LINE & "P" TRAP AS DETAILED SHALL BE PROVIDED & INSTALLED BY THE PLUMBING CONTRACTOR. "P" TRAP & DRAIN LINE TO BE RIGID COPPER PIPE.
* PROVIDE TRAP GUARD PRODUCT ON ALL FLOOR DRAINS.

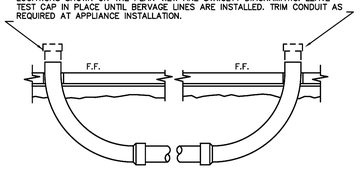


SECTION

1 SAFE WASTE WITH FUNNEL TOP

N.T.S

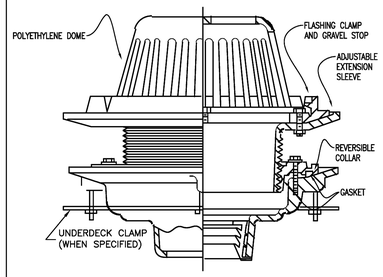
STUB ELBOWS THROUGH FLOOR 12" AT 90 DEGREES TO THE SLAB AND SEAL. COORDINATE LOCATIONS WITH THE KITCHEN EQUIPMENT SUPPLIER. THE LOCATIONS SHOWN ON THE PLAN VIEW ARE STRICLTY DIAGRAMATIC. LEAVE TEST CAP IN PLACE UNTIL BERVAGE LINES ARE INSTALLED. TRIM CONDUIT AS REQUIRED AT APPLIANCE INSTALLATION.



USE SIX INCH SCHEDULE 40 PVC ELECTRICAL CONDUIT AND FITTINGS WITH SOLVENT–WELDED JOINTS. PROVIDE LONG SWEEP ELBOWS AT BOTH ENDS, 30" MIN RADIUS. TWO ELBOWS MAX PER RUN. PRESSURE TEST TO 10 PSIG FOR 24 HRS PRIOR TO BACK FILLING. MAINTAIN PRESSURE ON LINES UNTIL BEVERAGE LINES ARE INSTALLED. HORIZONTAL ELEBOWS SHALL NOT BE USED. DEEPEN TRENCH AND GENTLY BELLY DOWN CONDUIT AS REQUIRED TO AVOID OTHER PIPE. SEAL ENDS OF CONDUIT WITH FOAM AFTER BEVERAGE LINES ARE INSTALLED IN CONDUIT.

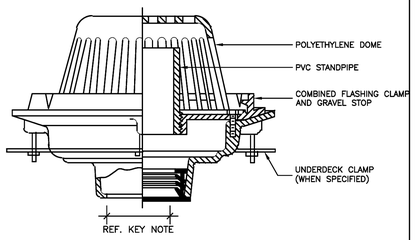
2 BEVERAGE CONDUIT DETAIL

N.T.S



3 ROOF DRAIN DETAIL

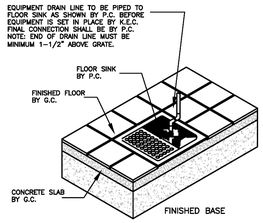
N.T.S



4 EMERGENCY ROOF DRAIN DETAIL

N.T.S

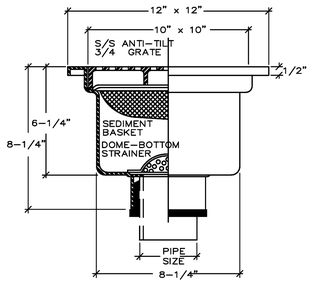
EQUIPMENT DRAIN LINE TO BE PIPED TO FLOOR SINK AS SHOWN BY P.C. BEFORE EQUIPMENT IS SET IN PLACE BY K.E.C. FINAL CONNECTION SHALL BE BY P.C. NOTE: END OF DRAIN LINE MUST BE MINIMUM 1–1/2" ABOVE GRATE.



* PROVIDE TRAP GUARD PRODUCT ON ALL FLOOR DRAINS.

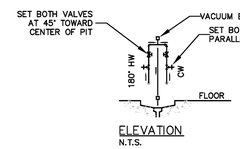
5 FLOOR SINK

N.T.S



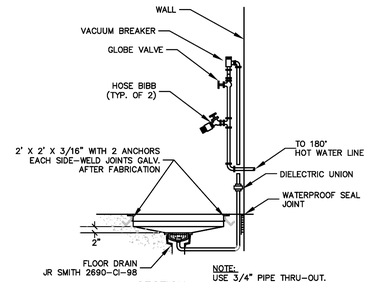
6 TYP FLOOR SINK SECTION

N.T.S



ELEVATION

N.T.S.



SECTION

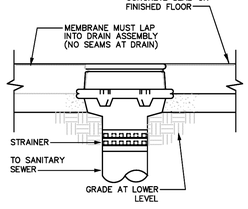
N.T.S.

NOTE:
USE 3/4" PIPE THRU–OUT. GALVANIZED STEEL ABOVE GND. & COPPER TUBE TYPE K BELOW GROUND.

7 TYP. CAN WASH DETAIL

N.T.S

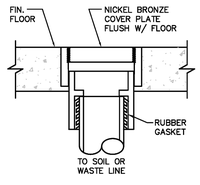
CONCRETE SLAB OR FINISHED FLOOR



* PROVIDE TRAP GUARD PRODUCT ON ALL FLOOR DRAINS.

8 FLOOR DRAIN DETAIL

N.T.S

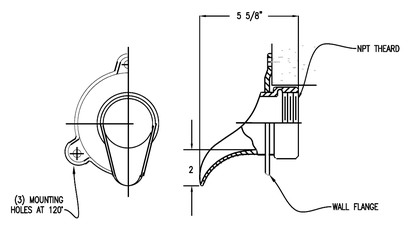


10 FLOOR CLEAN OUT DETAIL

N.T.S

FIRESTOP PIPING SCHEDULE

PENETRATING ITEM	CONCRETE				GYPSUM		WOOD FLOOR/CEILING	
	UL SYSTEM	3M DESCRIPTION	UL SYSTEM	3M DESCRIPTION	UL SYSTEM	3M DESCRIPTION	UL SYSTEM	3M DESCRIPTION
PLASTIC PIPE	CAJ2001 CAJ2002 CAJ2003 CAJ2004 CAJ2027 CAJ2028	RC–1, FS–195 FS–195 CS–195, FS–195 PSS 7900 CP 25WB+, FS–195 FS–195, CP 25WB+	CAJ2029 CAJ2030 CAJ2040 CAJ2044 CBK2002	FS–195, RC–1 CS–195, FS–195 FS–195 FS–195, CP 25WB+ FS–195, RC–2, E–5A	WL2002 WL2003 WL2031 WL2032 WL2033	FS–195, RC–1 FS–195 CS–195,FS–195 FS–195, CS–195 FS–195, CP 25WB+	FC2002 FC2007 FC2008	FS–195, RC–1 FS–195, RC–1 FS–195
METAL PIPE	CAJ1001 CBJ1007 CAJ1027 CBJ1020	CP 25N/S, CP25S/L CP 25N/S MOLDABLE PUTTY CS–195, FS–195, CP25	CAJ1044 CAJ1052 CAJ1066 CAJ1092 CAJ1112 CAJ1017 CAJ1091	CP 25WB+ CP 25N/S CP 25WB+ CP 25WB+ FS–195, CP 25WB+ FIREDAM 150 CP 25	WJ1010 WL1001 WL1003 WL1016 WL1017 WL1032 WL1036 WL 1037	CP 25WB+ CP 25 CP 25 & SLEEVE CP 25WB+ CP 25N/S CP 25 FIREDAM 150 CS–195, CP 25WB+	FA1002 FC1002 FC1006	CP 25WB+ CP 25N/S CP 25WB+
INSULATED METAL PIPE	CAJ5001 CAJ5002 CAJ5003 CAJ5005 CAJ5017 CAJ5024	CP 25WB+ FS–195 FS–195, RC–1 MOLDABLE PUTTY ARMAFLEX ON COPPER FS–195, CP 25WB+	CAJ5030 CBJ5002 CBJ5003 CBJ5004	CS–195, FS–195 CP 25 FS–195 CS–195, FS–195	WL5001 WL5002 WL5009 WL5010 WL5011	FS–195, CP 25 FS–195, RC–1 ARMAFLEX FS–195 CP 25WB+	FA5001 FC5002	AB/PVC & FIBERGLASS CP 25N/S



9 DOWNSPOUT NOZZEL

N.T.S

RGD JOB# 10-4088				
ISSUE & REVISIONS				
#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	DJC	RGD
1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

These Drawings are NOT VALID for any purpose which requires the original signature and raised seal of the engineer unless the original signature and raised seal are affixed. Drawings not signed and sealed by the engineer shall not be submitted to any authority or used for any purpose where signed and sealed documents are required.

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ROBERT DAVENPORT P.E.
FLORIDA P.E. NO. 31932
CERT OF AUTH 5454
MECHANICAL ENGINEER
DATE

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23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
400 US Hwy 1, North Palm Beach, FL 33408

PLUMBING DETAILS

Project number

Date

Drawn by

Checked by

P7.2

Scale

EQUIPMENT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	AMPS	KW	HP	VOLTS	PHASE	CYCLE	DIRECT PLUG	NEMA	COLD WATER SIZE (IN)	HOT WATER SIZE (IN)	HOT WATER GPH	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	GAS ACH (IN)	GAS AFF (IN)	ELECTRICAL AFF (IN)	ELECTRICAL ACH (IN)	COLD WATER AFF (IN)	COLD WATER ACH (IN)	HOT WATER AFF (IN)	HOT WATER ACH (IN)	DIRECT DRAIN AFF (IN)	DIRECT DRAIN ACH (IN)	INDIR DRAIN AFF (IN)	INDIR DRAIN ACH (IN)
B-14	1	UNDERBAR SINK	PERLICK	TS43R									0.375	0.375			1.5						31		20				17	
																	1.5												16.5	
B1	1	UNDERBAR PASS-THRU SERVICE STATION	PERLICK	PTS42R							X	5-15R	0.5	0.5			1.5					18		25		25			16	
B3	3	UNDERBAR FILLERS & DRAINBOARDS	PERLICK	TS24													1.5												26	
B4	2	UNDERBAR ICE CHEST	PERLICK	TS36ICB													0.5												14	
B5	2	UNDERBAR BLENDER STATION	PERLICK	TS12BLW							X		0.375	0.375			1.5					18		20		20			20	
								115	1	60		X 5-15P										12								
											X																			
B6	3	UNDERBAR LIQUOR DISPLAY	PERLICK	7055A3																										
B7	2	COOLER, BOTTLE	PERLICK	BC48	5.2		0.25	115	1	60		X 5-15P										1.5								
B9	1	BEVERAGE COOLING SYSTEM, REMOTE	PERLICK	4420	16.5		1.5	220	1	60	X											22								
B9-A	1	DISPENSING HEAD, DRAFT BEER	PERLICK	4007-5BTF																										
B9-B	1	DRIP PAN, TOP MOUNTED	PERLICK	C18645A																										
B9-C	1	DRIP PAN, RECESSED	CBI-CUSTOM																											
B9-D	1	DISPENSING HEAD, DRAFT BEER, TEE TOWER	PERLICK	4006-5B-5X5-TFN																										
B9-E	1	BEER KEGS	BY OTHERS																											
B10	1	FROSTER/CHILLER, GLASS/MUG/PLATE	PERLICK	FR48	6.2		0.33	115	1	60		X 5-15P										4								
B11	2	UNDERBAR HANDSINK	PERLICK	TS12HSN									0.375	375			1.5							20		20			17	
B13	1	GLASSWASHER	CMA DISHWASERS	GL-C																										
B13-A	1	GLASSWASHER ACCESSORY	PERLICK	7057-3	15			208	1	60																				
B15	1	BAR TOP	CUSTOM - BY OWNER	N/A	REFER TO SHOP DRAWINGS																									
B16	1	CUSTOM BUILT BAR DYE	CUSTOM - BY OWNER	N/A																										
B17	1	GLASSWASHER ACCESSORY	PERLICK	7057-3																										
BH1	1	MOP SINK	SELECTED BY OWNER	SELECTED BY OWNER	SELECTED BY OWNER																									
BH3	5	WIRE SHELF - GREEN EPOXY FINISHED	NEXEL	S2448EP																										
BH4	10	WIRE SHELF - GREEN EPOXY FINISHED	NEXEL	S2460EP																										
BH5	2	WIRE SHELF - GREEN EPOXY FINISHED	NEXEL	S2436EP																										
BH6	1	CO2 BOTTLE	BY OTHERS																											
BH7	1	WIRE SHELF - GREEN EPOXY FINISHED	NEXEL	S2448EP																										
BH8	1	BAG IN THE BOX LINES	PERLICK																											
BH11	1	WALK IN BEER COOLER	CUSTOM		REFER TO SHOP DRAWINGS																									
BH13	1	WALK IN COOLER FREEZER COMBO	CUSTOM																											
CL1	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	2R	9.1		0.33	115	1	60		X 5-15P										76								
CL2	1	SINK, SCULLERY, 2 COMPARTMENTS	AERO MANUFACTURING	XF2-2424									0.5	0.5			2							34.5		34.5			18.5	
																	2												18.5	
CL3	1	REFRIGERATED LETTUCE CRISPER/DISPENSER	SILVER KING	SK2SB/C1	2.4		0.125	115	1	60		X 5-15P																		
CL4	1	REFRIGERATOR, UNDERCOUNTER, COMPACT	BEVERAGE-AIR	WTR60A	6.5		0.25	115	1	60		X 5-15P										12								
CL6	2	REFRIGERATOR, PIZZA PREP	CONTINENTAL REFRIGERATOR	CPA60	13.0			115	1	60		X																		
HL1	1	HOOD	CUSTOM		REFER TO SHOP DRAWINGS																									
HL2	1	ANSUL CABINET	CUSTOM																											
HL3	1	GAS RISER	CUSTOM																											
HL4	1	TABLE, WORK, ENCLOSED BASE, DROP-IN SINK	CUSTOM	CUSTOM																										
HL6	1	FRYER BATTERY, DEEP FAT, GAS W/FILTER	IMPERIAL RANGE	IFSSP-450	6.8			115	1	60								1.25		7.5										
HL7	1	OVEN, CONVECTION, GAS	IMPERIAL RANGE	ICV-1	9.0		0.5	120	1	60		X 5-15P						0.75	70	30	30									
HL8	1	WORK TABLE	ADVANCED TABCO	FMG-243																										
HL9	1	RANGE, RESTAURANT, GAS	IMPERIAL RANGE	IR-8														0.75	278	30										
HL9-A	1	SALAMANDER BROILER, GAS	IMPERIAL RANGE	ISB-36														0.75	35	18.5										
HL10	1	GRIDDLE, GAS	IMPERIAL RANGE	ITG-36														0.75	90	6										
HL11	1	REFRIGERATOR, SHORTY	BEVERAGE-AIR	WTRCS84-1	4.5		0.2	115	1	60		X 5-15P																		
HL12	1	REFRIGERATOR, SANDWICH/SALAD PREP	CONTINENTAL REFRIGERATOR	SW60-16C	6.6		0.25	115	1	60		X 5-15P																		
HL13	1	BROILER, UNDER-FIRED/GAS	IMPERIAL RANGE	IRB 48														0.75	120	6										
HL15	1	TABLE, HOT FOOD	EAGLE GROUP/METAL MASTERS	SHT3-120	18			120				X 5-15P																		
HL16	3	WARMER, FOOD OVERHEAD	HATCO	GRAH-48D3	10.6	2.2		208	1	60	X												30							
HL18	1	REFRIGERATOR, PIZZA PREP	CONTINENTAL REFRIGERATOR	CPA60	13.0			115	1	60		X																		
HL19	1	CUSTOM PLATE RAIL	CBI CUSTOM PLATE RAIL																											
HL20	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	1R	6.9		0.25	115	1	60		X 5-15P										76								
HL21	1	REFRIGERATOR, UNDERCOUNTER, COMPACT	CONTINENTAL REFRIGERATOR	SW48	7.1		0.2	115	1	60		X 5-15P										12								
HL21.1	1	WARMER, FOOD, ELECTRIC	APW WYOTT	CFHS-21	9.4			120				X 5-15P										24								
HL22	1	FREEZER, UNDERCOUNTER, COMPACT	CONTINENTAL REFRIGERATOR	SWF60-BS-FB	8.1		0.33	115	1	60		X 5-15P										5								
HL23	1	ENCLOSED WORK TABLE	EAGLE GROUP	OB3060SE-BS																										
P1	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	2R	9.1		0.33	115	1	60		X 5-15P										76								
P2	1	SINK, HAND, WALL MOUNT, WITH FAUCET	AERO MANUFACTURING	HSF																										
P3	1	TABLE, WORK	AERO MANUFACTURING	4TSS-3096																										
P3-A	2	SINK, WELDED INTO TABLE	AERO MANUFACTURING	T-102													2												26	
P4	1	FLOOR DRAIN 60"X12"	CUSTOM CBI	CUSTOM																										
P5	1	ICE MAKER W/O BIN	ICE-O-MATIC	ICE1406HR	22.2			208	1	60	X		0.375				0.75						17.2		2.9					3.2
P5-A	1	BIN, ICE	ICE-O-MATIC	B100PS													1												7	
P5-B	1	FILTER SYSTEM, ICEMAKER	ICE-O-MATIC	IFQ2																				18						
P5-C	1	ICEMAKER CONDENSER, REMOTE	ICE-O-MATIC	VRC-2661B	2.6			208	1	60	X											32.5								
P6	1	TABLE, WORK	AERO MANUFACTURING	4TGX-3096																										
P8	1	SMOKER & SMOKE OVEN	ALTO-SHAAM	767-SK	16.0	1.9		120	1	60		X 5-20P										30.5								
POS	3	POINT OF SELL SYSTEM	BY OTHERS	N/A	SELECTE BY OWNER - REFER TO SHOP DRAWINGS																									
TB1	1	UNDERBAR PASS-THRU SERVICE STATION	PERLICK	PTS42R							X	5-15R	0.5	0.5			1.5					18		25		25			16	
TB3	2	UNDERBAR FILLERS & DRAINBOARDS	PERLICK	TS30													1.5												26	
TB4	2	UNDERBAR ICE CHEST	PERLICK	TS36ICB													0.5												14	
TB5	2	UNDERBAR BLENDER STATION	PERLICK	TS12BLW							X		0.375	0.375			1.5					18		20		20			20	
								115	1	60		X 5-15P										12								
											X																			
TB6	3	UNDERBAR LIQUOR DISPLAY	PERLICK	7055A3																										
TB7	2	COOLER, BOTTLE	PERLICK	BC60	7.0		0.33	115	1	60		X 5-15P										1.5								
TB8	3	COOLER, BOTTLE	PERLICK	BC48	5.2		0.25	115	1	60		X 5-15P										1.5								
TB11	2	UNDERBAR HANDSINK	PERLICK	TS12HSN									0.375	375			1.5							20		20			17	
TB14	2	DISPLAY, ICED	PERLICK	GMDS14X60													0.75													
TB15	1	BAR TOP	CUSTOM - BY OWNER	N/A	REFER TO SHOP DRAWINGS																									
TB16	1	CUSTOM BUILT BAR DYE	CUSTOM - BY OWNER	N/A																										
TB17	1	UNDERBAR SINK	PERLICK	TS43R									0.375	0.375			1.5							31		20			17	
																	1.5												16.5	
W1	1	60" CLEAN DISH TABLE	AERO	XCD-L-60																										
W2	1	WAREWASHING MACHINE	CBI WAREWASHING DEPARTMENT	B	30			115																						
W3	1	60" SOILED DISH TABLE WITH PRE-RINSE UNIT	AERO	XSD-R-60																										
W3-A	1	PRE-RINSE FAUCET, DECK MOUNT	T & S BRASS	B-0113									0.25	0.25										8		8				
W3-B	1	DISPOSER, GARBAGE	SALVAJOR	500	13.8		5.0	208	3	60	X		0.5			3						13		26				16		
W4	1	SINK, SCULLERY, 3 COMPARTMENTS	AERO MANUFACTURING	XF3-2116-18LR									0.5	0.5			2							34.5		34.5			18.5	
																	2												18.5	
																	2												18.5	
W5	1	SINK, HAND, WALL MOUNT, WITH FAUCET	AERO MANUFACTURING	HSF																										
WS1	1	GRANITE WAIT STATION COUNTER	BY OTHERS	N/A	REFER TO SHOP DRAWINGS																									
WS2	3	FLATWARE DRAWER	BY OTHERS	N/A																										
WS6	1	CBI CUSTOM BEVERAGE COUNTER	CUSTOM		REFER TO SHOP DRAWINGS																									
WS6.1	2	FAUCET, PANTRY TYPE	T & S BRASS	B-0325									0.5	0.5										34		34				
WS9	1	COFFEE MACHINE	CBI BEVERAGE DEPARTMENT	N/A	30			208																						
WS10	1	TEA MAKER	CBI BEVERAGE DEPARTMENT	N/A	20			120																						
WS12	2	DROP-IN, HOT WELLS	WELLS	SS-BULTD	6.9	0.8		120	1	60	X						0.5					28							27	
WS13	5	HEAT LAMP, DECORATIVE	HATCO	DL-775-RTR	2.0	0.3		120	1	60	X																			

ANY SUPPLIES NEEDED FOR DIRECT EQUIPMENT INSTALLATION TO BE SUPPLIED BY ELECTRICIAN
ANY SUPPLIES NEEDED FOR PLUMBING INSTALLATION TO BE SUPPLIED BY PLUMBER.

FOOD SERVICE EQUIPMENT SCHEDULE

THE EQUIPMENT SCHEDULE IS BELIEVED TO BE UP TO DATE AT THE TIME OF PRINTING AND IS PROVIDED AS A REFERENCE ONLY. DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE SEE THE LATEST FOOD SERVICE DRAWINGS FOR CONFIRMATION.

RGD JOB# 10-4088

ISSUE & REVISIONS

#	DATE	DESCRIPTION	INL	APP
0	11.23.10	ORIGINAL RELEASE	DJC	RGD
1	12.20.10	REVISED: RELOCATE ROOF EXHAUST, STORM PIPE ROUTING.	DJC	RGD

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CONSULTING ENGINEERS
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WWW.RGDENGINEERS.COM

ROBERT DAVENPORT P.E.
FLORIDA P.E. NO. 31902
CERT OF AUTH 5454
MECHANICAL ENGINEER
DATE _____

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23 November, 2010

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No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant

400 US Hwy 1, North Palm Beach, FL 33408

FOOD SERVICE EQUIPMENT SCHEDULE

Project number

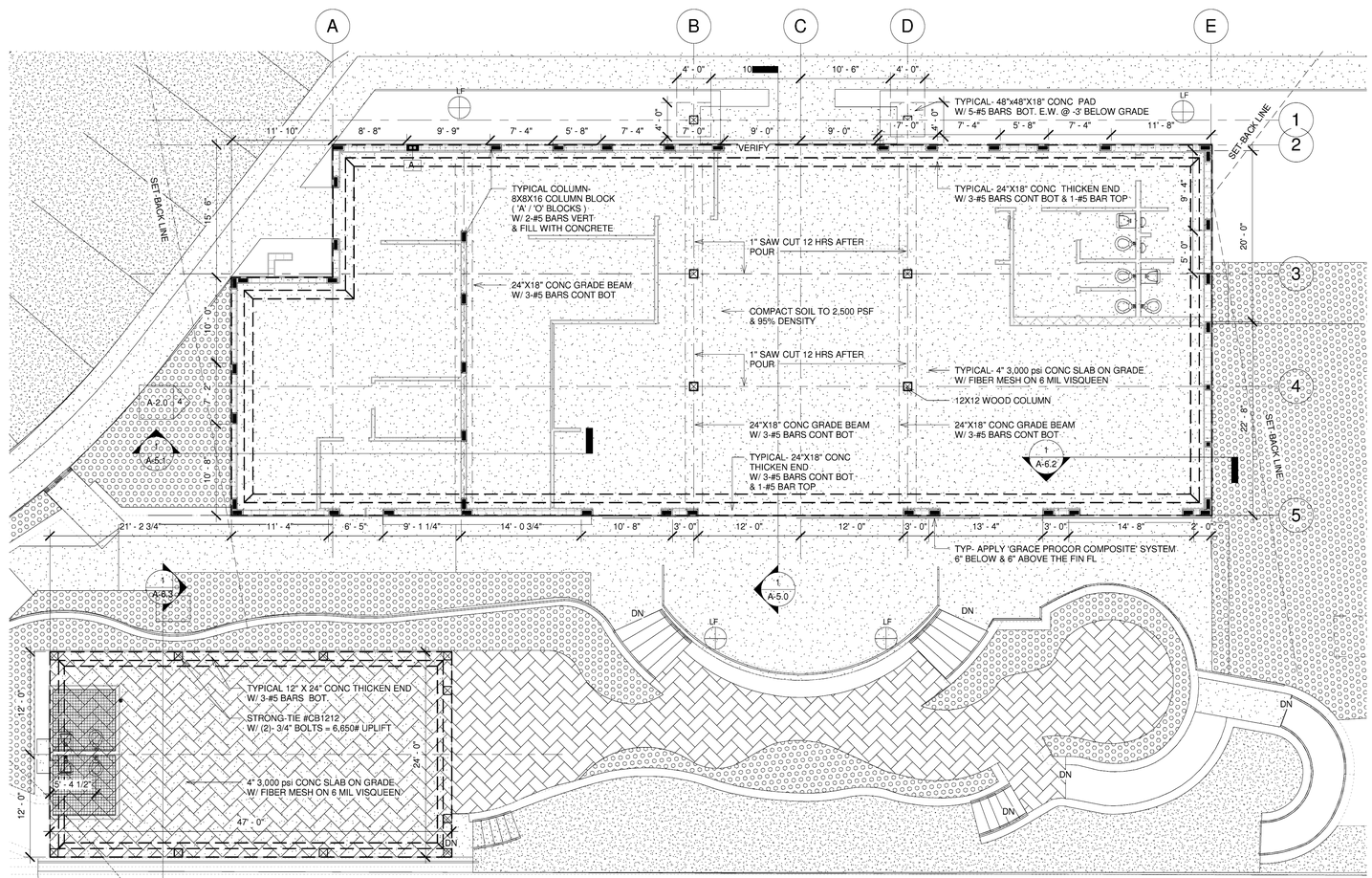
Date

Drawn by

Checked by

P8.1

Scale



A TYPICAL COLUMN-
8X8X16 COLUMN BLOCK
('A' / 'O' BLOCKS)
W/ 2-#5 BARS VERT
& FILL WITH CONCRETE

VERIFY ALL DOOR & WINDOW OPENINGS W/ MANUF

ALL REINF BARS TO HAVE 3" CONC COVERAGE

SURVEYOR TO VERIFY SET-BACK LINES BEFORE CONC POUR

2 A-2.0

1 Foundation
1/8" = 1'-0"

Eugene R Fagan III Architect #11668

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No.	Description	Date

Frigates Holdings LLC

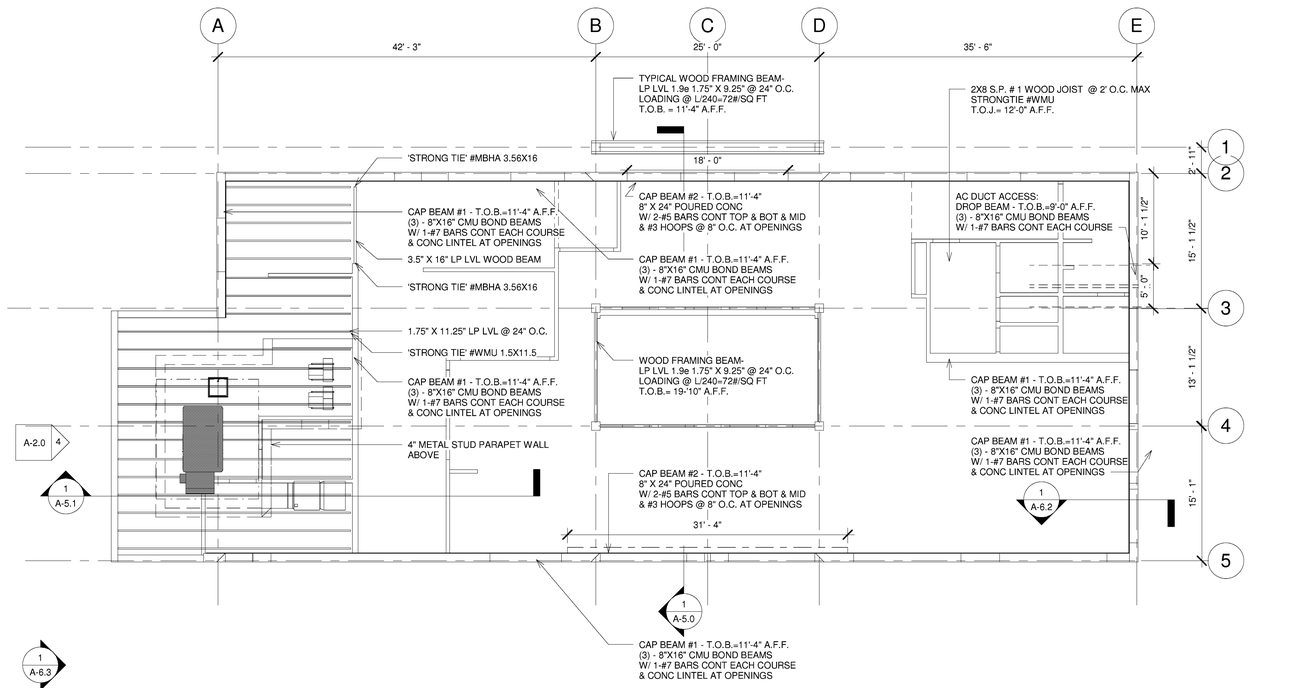
Frigates Restaurant

Foundation

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

S-1.0

Scale	1/8" = 1'-0"



1 Beam Plan
1/8" = 1'-0"

Eugene R Fagan III Architect #11668

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Eugene@FaganArchitect.com

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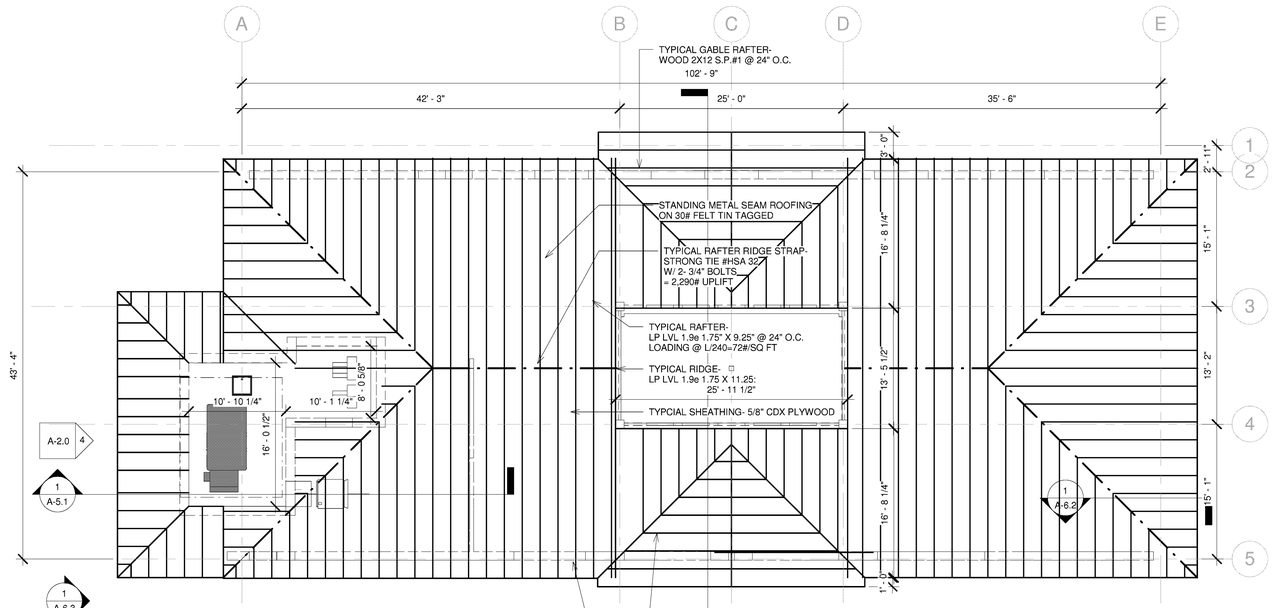
No.	Description	Date

Frigates Holdings LLC
Frigates Restaurant
Cap Beam Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

S-1.1

Scale	1/8" = 1'-0"



NOTE: ALL SLOPES ARE 6/12
TREAT ALL ROOF WOOD FRAMING WITH FIRE RETARDANT

1 Roof Framing
1/8" = 1'-0"

Eugene R Fagan III Architect #11668

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No.	Description	Date

Frigates Holdings LLC

Frigates Restaurant

Roof Framing Plan

Project number	CB-01
Date	25 May 2010
Drawn by	Author
Checked by	Checker

S-1.2

Scale	1/8" = 1'-0"