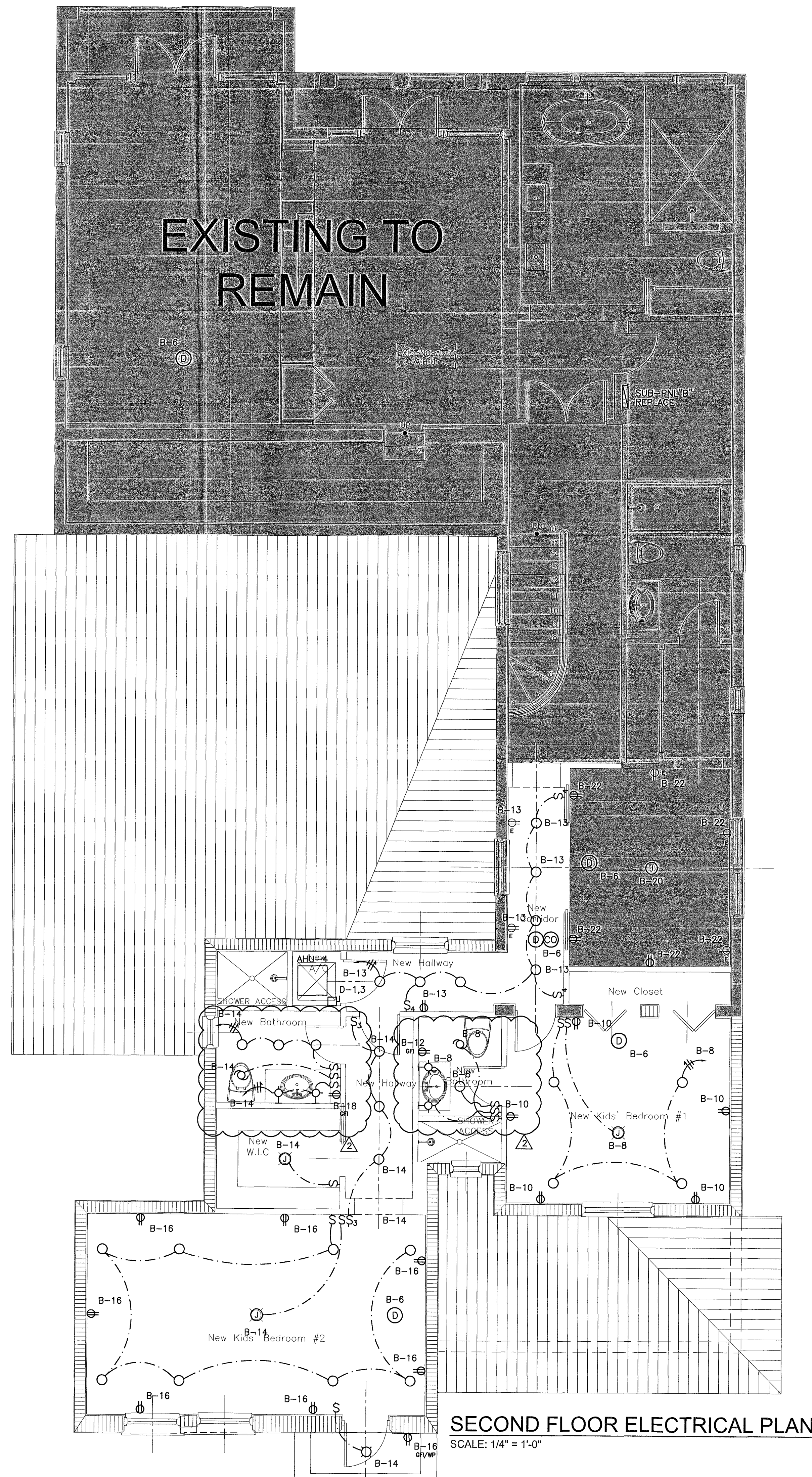
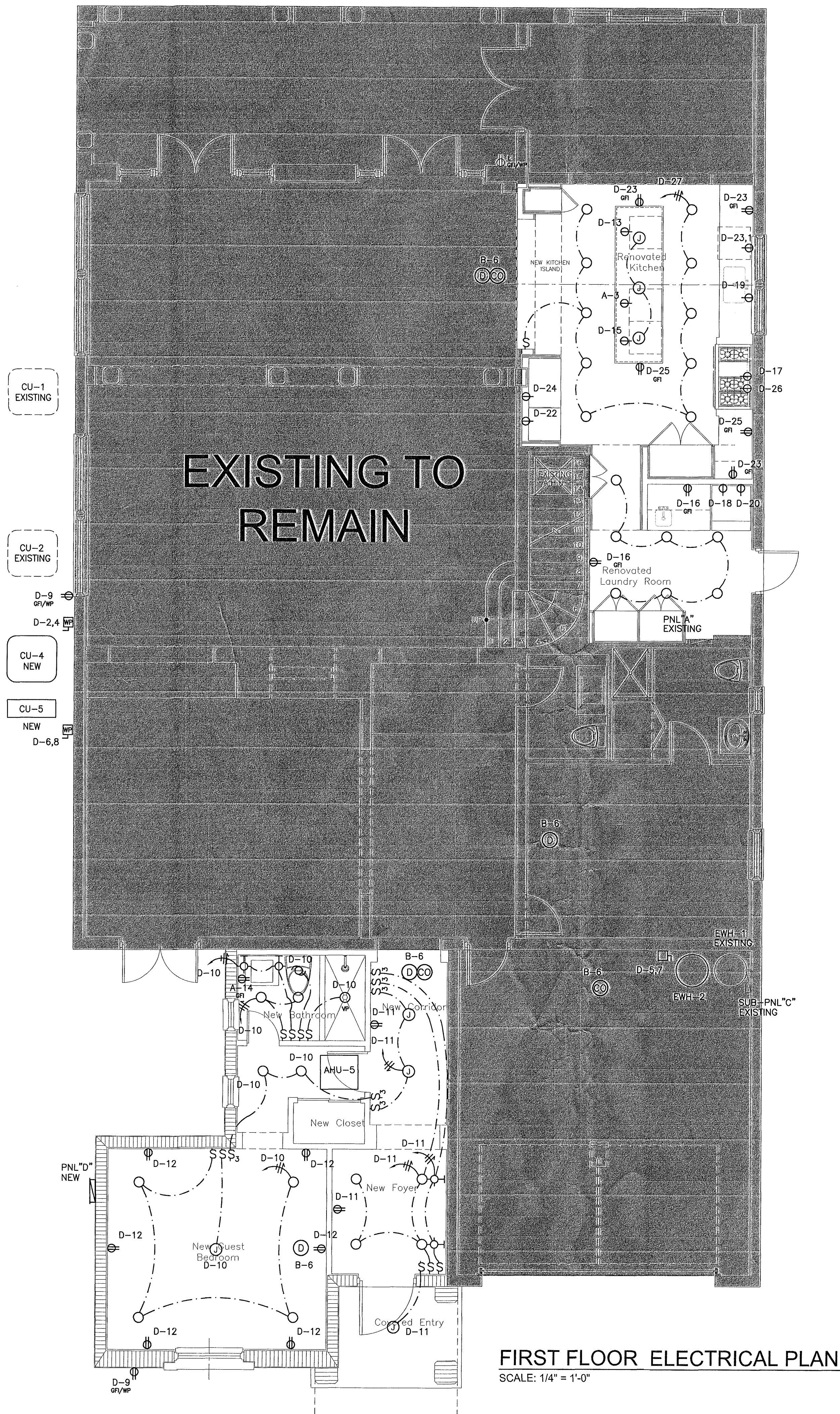


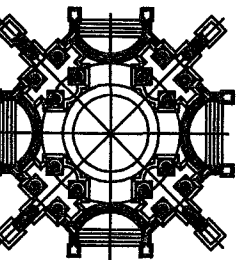


RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 18th St.
Miami, Florida 33015
Phone: 305 308 9657
Fax: 305 628 3647
email: rperrez@rpa-engineering.com

SEAL

[Signature]
LIC. # 58728

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:



Z.W. JAROSZ ARCHITECT, P.A.
3326 MARY STREET SUITE 500
COCONUT GROVE, FLORIDA 33133
305.446.0888 WWW.JAROSZARCH.COM

PROJECT / SHEET TITLE

SNYDER RESIDENCE
190 S Hibiscus Drive, Miami Beach, FL 33139

ELECTRICAL FLOOR PLANS

LIC. AR8223

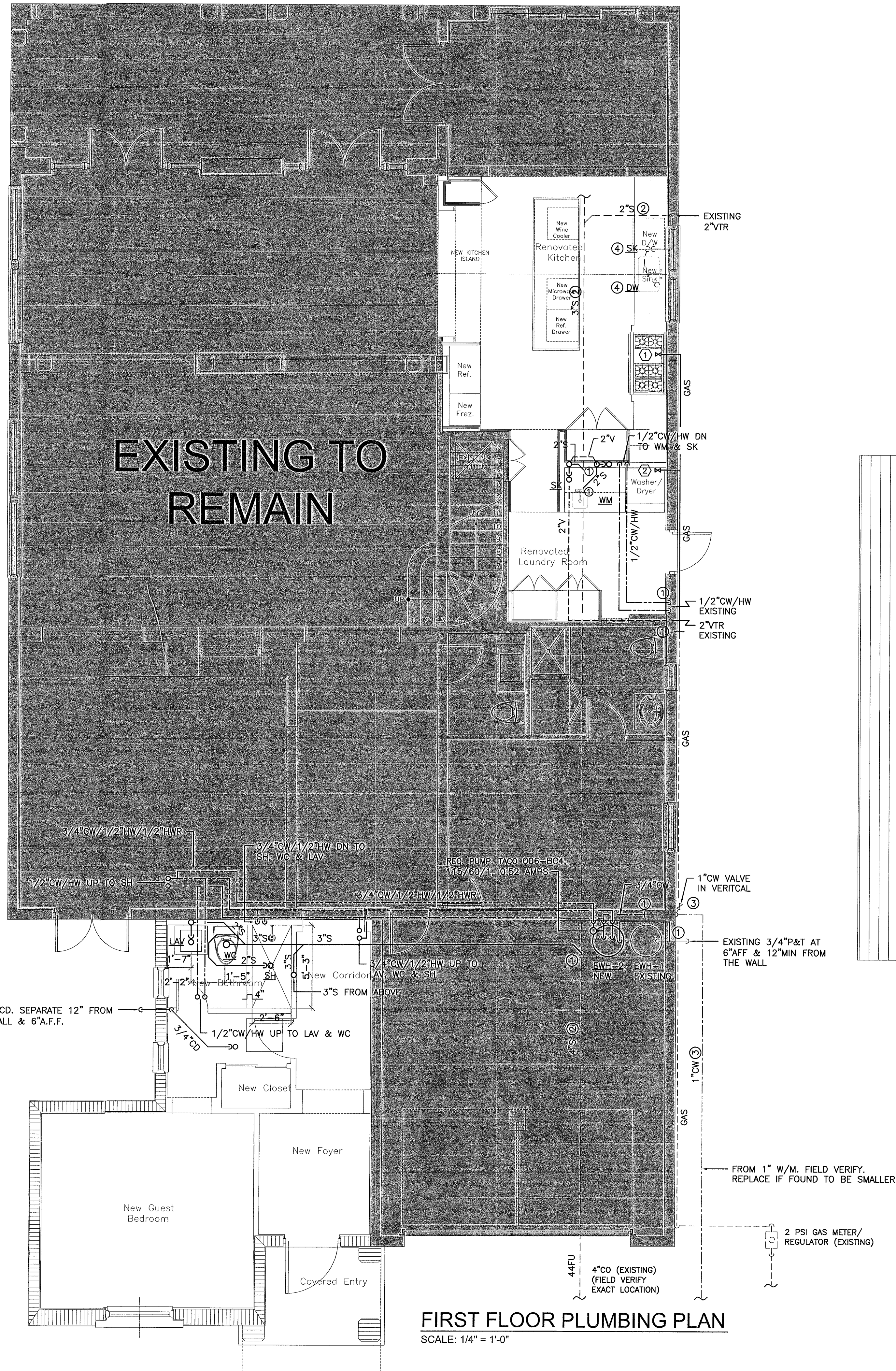
REVISIONS		
NO.	DATE	DESCRIPTION
1	11/13/13	B.D.C.
2	06/24/14	OWNER CHANGES

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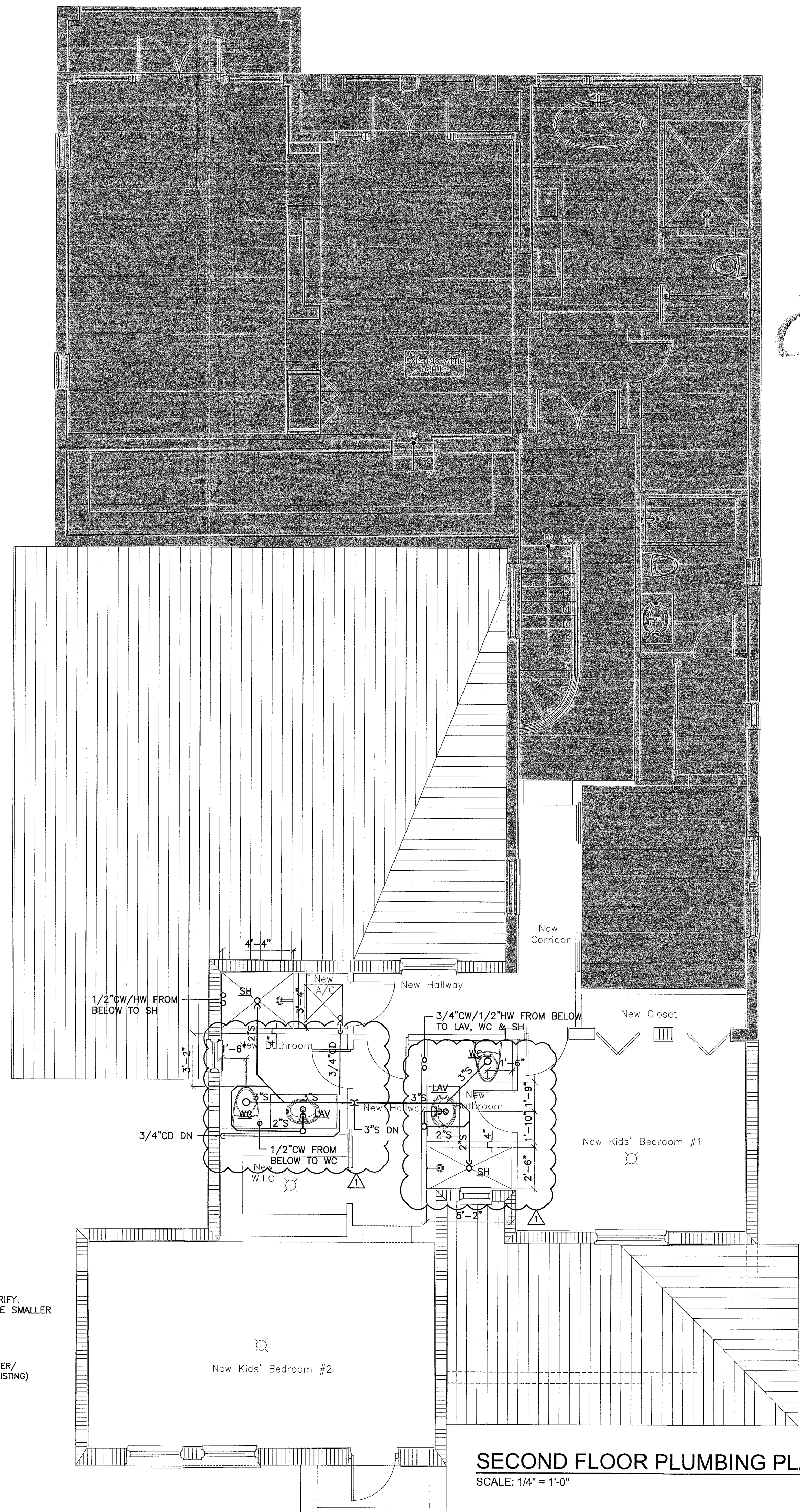
1301-SNYD

DATE:	Oct. 7, 2013
DRAWN BY:	AB
CHECKED BY:	CHECKED BY: ZJ
SCALE:	AS SHOWN
SHEET	

E1.01



FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"



SECOND FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: _____
ZONING: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
FLOOD: _____
PUBLIC WORKS: _____
STRUCTURAL: _____
ENGINEER: _____

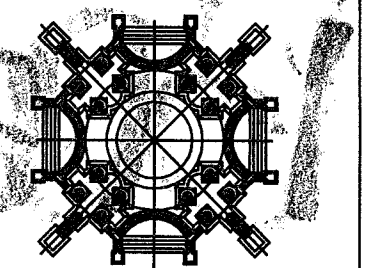
CONSTRUCTION NOTES:

- ① TIE-IN TO EXISTING.
- ② EXISTING DRAINAGE/VENT PIPES TO REMAIN.
- ③ EXISTING WATER PIPES TO REMAIN.
- ④ EXISTING TO BE UPGRADE. TIE IN TO EXISTING SANITARIES, VENTS, & WATER LINES.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7890 NW 19th St.
Miami, Florida, 33108
Phone: 305 308 8657
Fax: 305 828 3847
email: rpercz@rpa-engineering.com

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[Signature]
LIC. # 58728



Z.W. JAROSZ ARCHITECT, P.A.

3326 MARY STREET SUITE 500
COCONUT GROVE, FLORIDA 33133
305.476.0888 WWW.JAROSZARCH.COM

PROJECT / SHEET TITLE

SNYDER RESIDENCE
190 S Hibiscus Drive, Miami Beach, FL 33139

LIC. AR8223

REVISIONS

NO.	DATE	DESCRIPTION
1	06/24/14	OWNER CHANGES

1301-SNYD

DATE:	06/7/2013
DRAWN BY:	AS
CHECKED BY:	AS
SCALE:	AS SHOWN
SHEET	

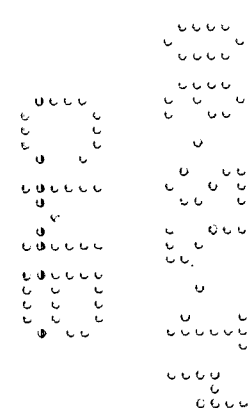
P1.01

BREV 141916

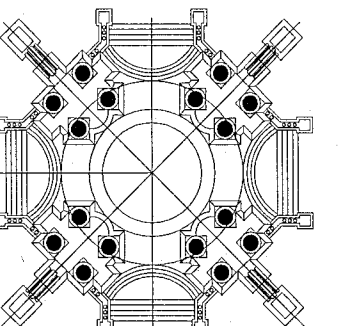
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190 S. Hibiscus

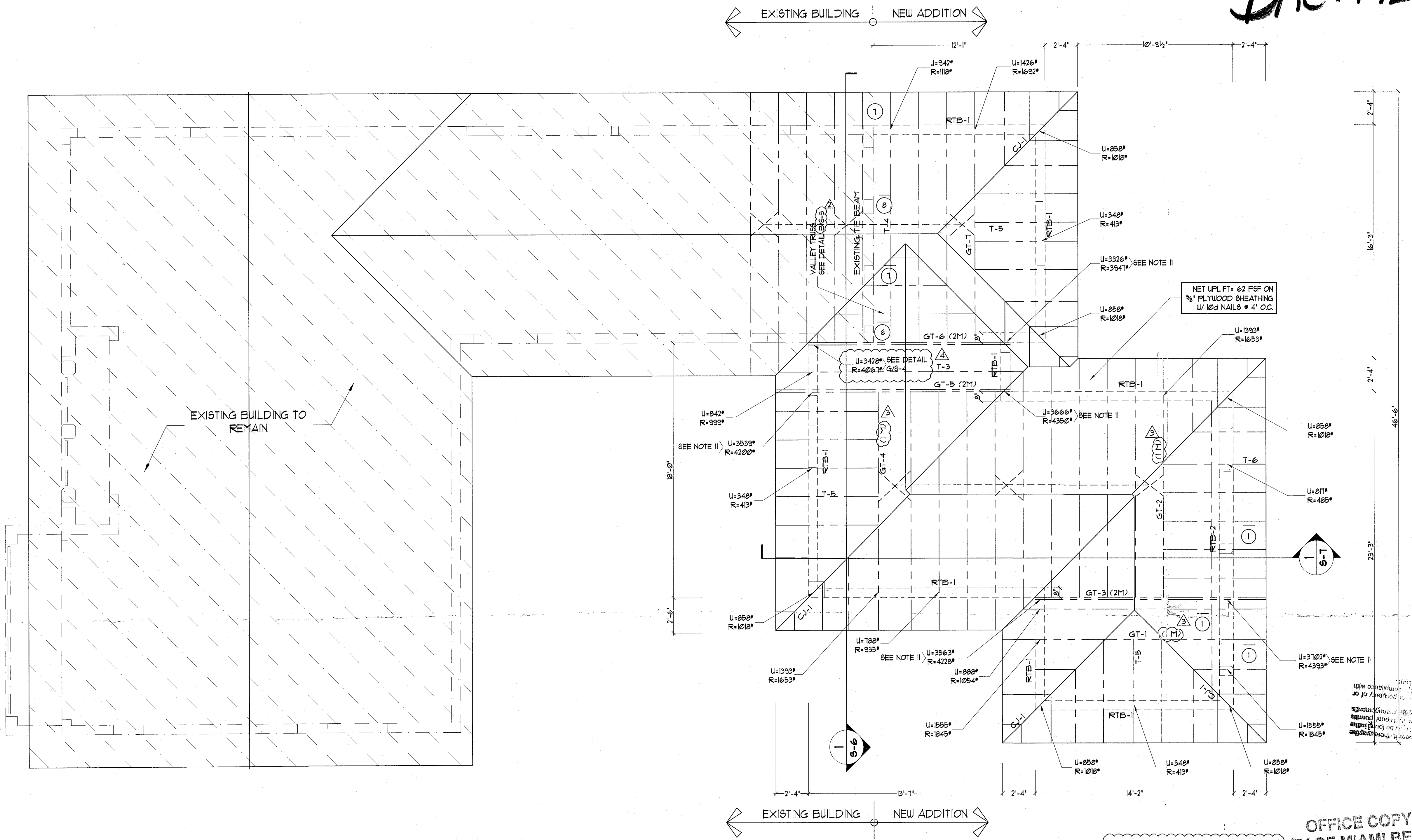
Dr, #203



BREV 4253



Z.W. JAROSZ ARCHITECT, P.A.
AR 8223
3326 MARY STREET
COCONUT GROVE, FLORIDA 33133
TEL: (305) 556-8888



- WOOD ROOF NOTES:**
1. ROOF DESIGN LOADS:
DL = 25 PSF LL = 30 PSF
 2. ALL PRE-FABRICATED ROOF TRUSSES @ 24" O.C. DESIGNED AND FABRICATED IN ACCORDANCE WITH THE FLORIDA BLDG. CODE 2010 EDITION LOCAL CITY CODE, THE TRUSS PLATE INSTITUTE AND ARCHITECTURAL/STRUCTURAL DRAWINGS.
 3. NET UPLIFT: AS SHOWN ON PLAN TRUSSES SHALL BE DESIGNED AS A COMPONENT AND CLADDING.
 4. FOR SCHEDULES, GENERAL NOTES, & TYP. DETAILS SEE SHEET S-4.
 5. FOR SECTIONS SEE SHEETS S-5 THRU S-7.
 6. COORDINATE ALL SLAB DEPRESSIONS AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 7. SEE ARCH. DWS. FOR OVERHANG DIMENSION.
 8. GENERAL CONTRACTOR MUST VERIFY AND COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWING.
 9. PLAN AND CALCULATIONS HAVE BEEN DESIGNED FOR COMPLIANCE WITH F.B.C. 2010 EDITION.
10. ALL STRAP SHALL BE NYHTA-20H BY NY-VUE W/ (6) 10d x 1 1/2 SEAT PLATE AND (18) 10d x 1 1/2 TO TRUSS OUN. (UPLIFT CAPACITY = 3111 #) N.O.A. # 13-020617.
11. FOR GIRDER TRUSSES 2 MEMBER USE NYUCE-2 BY NYE-VUE W/ 3/4" THRU BOLT AT TRUSSES AND (2) 3/4" WEDGE ANCHOR BOLT. (UPLIFT CAPACITY = 9600 #)

LEGEND	
----	PREFABRICATED WOOD ROOF TRUSS @ 24" O.C.
<----->	2"x4" CONT. PERM. HORIZONTAL BRACING W/ (3) 16d NAILS @ EA TRUSS @ 8'-0" (MAX). PROVIDE CROSS BRACING AS SHOWN AND AT EA END ROW OF HORIZONTAL BRACING AT EA END OF THE BUILDING, AND NOT MORE THAN 20'-0" SPACING IN DIRECTION OF HORIZONTAL BRACING.

OFFICE COPY
ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: _____
ZONING: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
FLOOD: _____
PUBLIC WORKS: _____
STRUCTURAL: AR 9/9/14
ELEVATOR: _____

NOTICE:
ARCHITECT & STRUCTURAL DRAWINGS HAVE TO BE CONSULTED TOGETHER. CALL ARCH/ENGINEER FOR ANY DISCREPANCY BEFORE START OF WORK.

J. EDUARDO GONZALEZ P.E., INC.
EDUARDO GONZALEZ
STRUCTURAL ENGINEER
717 Bonanza de Leon Blvd., Suite 305
Coral Gables, Florida 33134
Tel: (305) 445-8100 Fax: (305) 445-8844
STATE OF FLORIDA REGISTRATION # 24927
LICENSE # CA-0006188 PROJECT # 1331

Revisions		
No.	Date	Description
1	11-21-13	B.D.C.
2	01-22-14	B.D.C.
3	03-31-14	GENERAL COORD.
4	08-13-14	FIELD COND.

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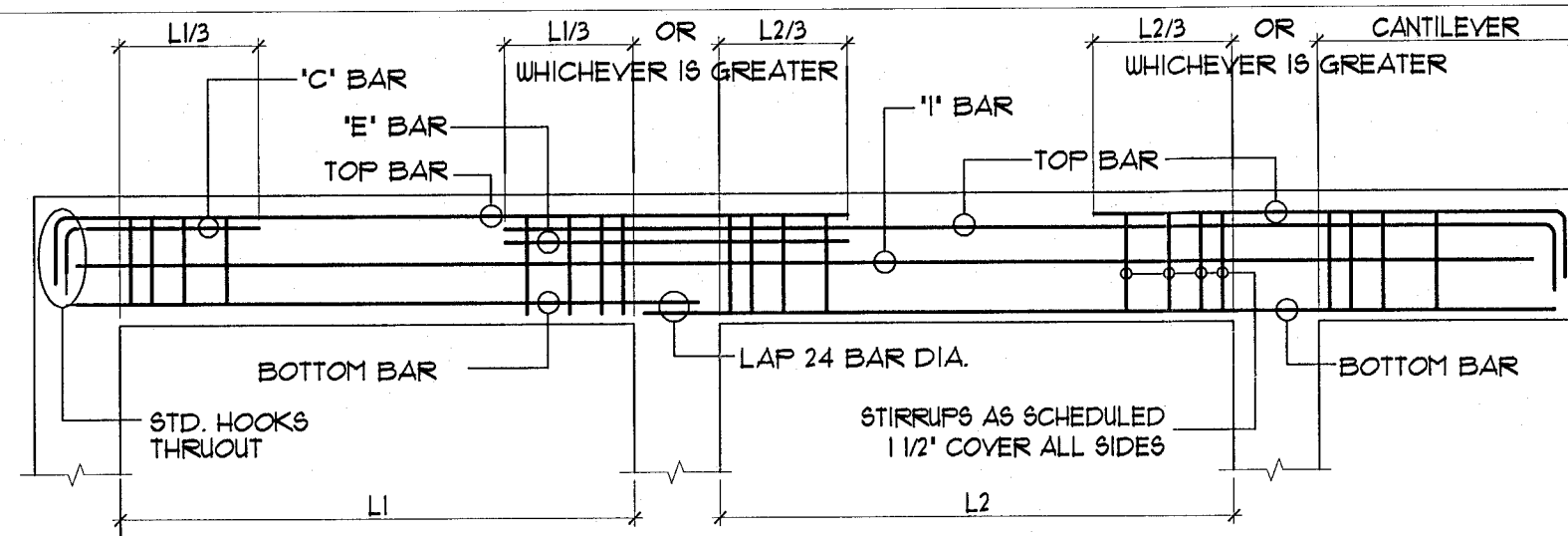
Drawn by _____
Checked by _____
Scale _____
Sheet _____

S-3

GENERAL STRUCTURAL NOTES

- ALLOWABLE SOIL BEARING CAPACITY:
ALLOWABLE LOADS FOR 14" AUGER CAST PILE AS PER SOIL REPORT PREPARED BY EASTCOAST TESTING & ENGINEERING INC., DATED OF 03-18-13.
COMPRESSION: 35 TONS.
LATERAL LOAD: 2 TONS.
MINIMUM PILE DEPTH BELOW GRADE = 30'-0".
REINFORCEMENT: 4 #6 VERTICAL 16'-0" LONG. 1 #1 VERTICAL FULL LENGTH. #3 @ 6" O.C. FIRST 6'-0" BALANCED @ 34".
USE 5000 PSI GROUT.
WATER CEMENT RATIO = 0.40
TENSION: 10 TONS.
LATERAL LOAD: 2 TONS.
MINIMUM PILE DEPTH BELOW GRADE = 30'-0".
REINFORCEMENT: 4 #6 VERTICAL 21'-0" LONG. 1 #1 VERTICAL FULL LENGTH. #3 @ 6" O.C. FIRST 6'-0" BALANCED @ 34".
USE 5000 PSI GROUT.
WATER CEMENT RATIO = 0.40
ALLOWABLE LOADS FOR 4" GALVANIZED HELICAL PILES AS PER SOIL REPORT PREPARED BY EASTCOAST TESTING & ENGINEERING INC., DATED OF 03-18-13.
COMPRESSION: 35 KIPS.
TENSION: 6 KIPS.
LATERAL LOAD: 1 KIP.
MINIMUM PILE DEPTH BELOW GRADE = 25'-0" (SCHEDULE 80 FOR THE HOUSE AND SCHEDULE 40 FOR JACUZZI).
- CONCRETE:
A. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-08 AND ACI 318-08. *SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS*.
B. ALL CONCRETE SHALL ATTAIN 5000 P.S.I. (WATER CEMENT RATIO = 0.4) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
C. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.
D. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
E. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI-301-08.
3. CONCRETE COVER:
TO BE AS FOLLOWS:

	BOTTOM	TOP	SIDES
FOOTINGS	3"	2"	3"
BEAMS	1 1/2"	1 1/2"	1 1/2"
COLUMNS	---	---	1 1/2"
INTERIOR SLABS	3/4"	3/4"	1 1/2"
EXTERIOR SLAB	1"	1 1/2"	1 1/2"
GROUND FLOOR SLAB	1"	1"	3"
AUGER CAST PILES	---	---	2 1/2"
- REINFORCING STEEL:
TO BE NEW HIGH STRENGTH BILLET STEEL DEFORMED AS PER ASTM A-305 AND CONFORMING TO ASTM A-615, GRADE 60. LAP CONTINUOUS BARS 36 BARS DIAMETERS. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS. ALL REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES AND THE ACI BUILDING CODE 318-08. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
- CONCRETE MASONRY WALLS:
A. ALL CONCRETE MASONRY WALLS ARE DESIGNED AS LOAD BEARING WALLS, UNLESS OTHERWISE NOTED, AND SHALL BE IN PLACE BEFORE THE SLABS AND BEAMS SUPPORTED BY THEM ARE POURED AS WELL AS THE CONCRETE TIE COLUMNS FRAMING THEM.
B. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C 90, *STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS* WITH A NET AREA COMPRESSIVE STRENGTH OF MASONRY OF 1900 P.S.I.
C. CONCRETE MASONRY STRENGTH SHALL BE A MINIMUM OF 2000 P.S.I.
D. VERTICAL REINFORCING IN CMU CELLS SHALL BE SPICED WITH 48 BAR DIAMETER LAP SPICERS.
E. PROVIDE CLEAN OUT HOLES AT BASE OF FILLED CELLS FOR LAP INSPECTION AND VERIFYING THAT THE CELLS HAVE BEEN FILLED SOLID WITH GROUT.
F. FILLED CELLS SHALL BE FILLED WITH 3000 P.S.I. GROUT AS PER ACI-330-08 AND ACI-3301-08. FILLING OF CELLS SHALL BE DONE IN FOUR FOOT LIFTS WITH A MAXIMUM FOUR OF 12 FEET. USE MECHANICAL VIBRATION TO ACHIEVE GROUT FILLED SOLID CELLS. GROUT SHALL CONFORM TO ASTM C-416. SLURRY SHALL BE BETWEEN 8" x 11".
G. ALL CMU WALLS SHALL BE HORIZONTALLY REINFORCING WITH STANDARD NO. 3 LADDER TYPE GALVANIZED STEEL REINFORCING EVERY SECOND COURSE. EXTEND REINFORCING A MINIMUM OF 4" INTO COLUMNS.
H. MORTAR SHALL CONFORM TO ASTM C 270, TYPE "M", WITH A MINIMUM AVERAGE STRENGTH OF 2500 P.S.I.
- STRUCTURAL STEEL:
SHALL CONFORM TO ASTM A-36 DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS. ALL STEEL COLUMNS TO BE ASTM A-500 FILL WITH 3000 P.S.I. CONCRETE. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
- WELDING:
ALL WELDING TO CONFORM WITH AWS AND AISC SPECIFICATIONS AND TO BE DONE BY CERTIFIED WELDERS HOLDING CURRENT WELDING CERTIFICATION. WELDING TO BE E70XX ELECTRODES, BOLTS TO BE A325 AS SHOWN ON DRAWINGS.
- SLAB ON GRADE:
A. FILL AND BACKFILL TO BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST. COMPACTION LAYERS NOT TO EXCEED 12". SEE GEOTECHNICAL REPORT.
B. ALL CONCRETE SLABS ON GRADE TO BE IN ACCORDANCE WITH THE LATEST *GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION* (ACI 302).
C. JOINTS SHALL BE PROVIDED IN ALL SLABS ON GRADE WHERE INDICATED ON THE PLANS.
D. 6 MIL POLYETHYLENE MEMBRANE SHALL BE PROVIDED UNDER ALL SLABS FORMED ON FILL.
E. COLUMNS, BEAMS, WALLS OR ANY OTHER STRUCTURAL MEMBER PENETRATING SLABS ON FILL SHALL BE ISOLATED BY PRE-MOLDED JOINT FILLER (1/2" THK) COMPLYING WITH ASTM D152, TYPE I.
- PRE-FABRICATED WOOD TRUSSES:
TO BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE FLORIDA BLDG. CODE, 2010 EDITION, THE TRUSS PLATE INSTITUTE, AND ARCHITECTURAL/STRUCTURAL DRAWINGS. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL TO ENGINEER OF RECORD AND BUILDING DEPARTMENT PRIOR TO FABRICATION. SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER.
DESIGN LOADS AS FOLLOWS:
TOP CHORD = 45 P.S.F.
BOTTOM CHORD = 10 P.S.F.
ADDITIONAL 200 LB LOAD IN BOTTOM CHORD PANEL POINT
WIND UPLIFT = ACCORDING TO FLA. BUILDING CODE, ASCE 7-10
- PRESSURE TREATED LUMBER / LUMBER:
ALL LUMBER SHALL BE GIVEN A PRESERVATIVE TREATMENT IN ACCORDANCE WITH THE LATEST FEDERAL SPECIFICATION. THE PRESERVATIVE AND THE METHOD AND RESULT OF TREATMENT SHALL BE SUITABLE FOR THE SPECIES OF WOOD SPECIFIED AND EXPOSURE CONDITIONS ANTICIPATED. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER W/IN FLEXURAL ALLOWABLE STRESS Fb = 1200 P.S.I. MIN. SHEAR STRESS Fv = 50 P.S.I. MIN. MODULES OF ELASTICITY E = 1,600,000 P.S.I.
- DESIGN LOADS:
A. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FLA. BLDG. CODE 2010 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL REFERENCED CODES SHALL BE LATEST EDITION AT THE TIME OF PERMIT.
B. WIND LOAD CRITERIA:
BASIC WIND VELOCITY = 115 MPH ASCE 7-10.
IMPORTANCE FACTOR (CAT-2) = 1.00
EXPOSURE CATEGORY: D
WIND DIRECTIONALITY FACTOR, Kd = 0.85
SUPERIMPOSED LOADS:
LIVE LOADS:
ROOF = 30 P.S.F.
FLOOR = 40 P.S.F. (U.O.N. ON PLAN)
FLOOR = 55 P.S.F. + SYSTEM WEIGHT
- FORM WORK AND SHORING:
FORMS AND SHORES FOR CONCRETE SLAB AND BEAM SHALL BE DESIGNED TO WITHSTAND THE DEAD LOAD OF CONCRETE AND ALL CONSTRUCTION LOADS. DESIGN AND CONSTRUCTION OF FORM WORK AND SHORING SHALL COMPLY WITH THE ACI 318-08 BUILDING CODE AND BE ENTIRELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SHORING DRAWINGS TO BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- RAILINGS:
BALCONY AND TERRACE RAILINGS AND STAIR RAILINGS SHALL BE DESIGNED BY MANUFACTURER'S REGISTERED ENGINEER IN THE STATE OF FLORIDA TO RESIST A LOAD OF 50 LB/FT. APPLIED IN ANY DIRECTION AT TOP OF SUCH A BARRIER. RAILINGS SHALL BE DESIGNED TO RESIST THE REACTION FROM THE RAILINGS OR A MINIMUM LOAD OF 200 LBS. HANDRAILS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST A LOAD OF NOT LESS THAN 200 LBS. APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE RAIL.
- TERMITES NOTE:
SOIL SHALL BE TREATED FOR TERMITE PROTECTION AS PER F.B.C. 2010, SECTION R 320.
- SAFETY:
A. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL LAWS.
B. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY AND FOR THE PROPER EXECUTION OF THE WORK, REMOVE WHEN THE WORK IS COMPLETED.
- GENERAL:
STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEFENSES, SLABS, SLOPES, OPENINGS AND DIMENSIONS. ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE BEFORE STARTING WORK. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND RE-SHORING REQUIRED.



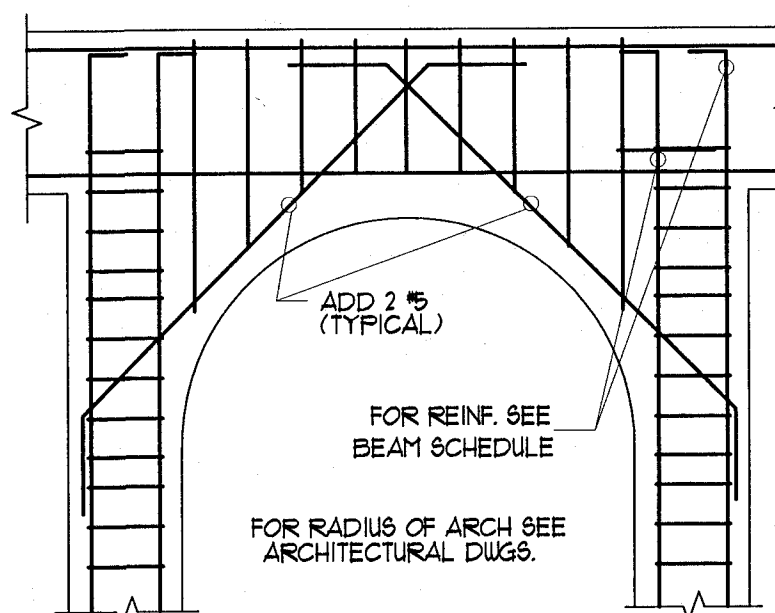
TYPICAL BEAM DIAGRAM

'C' BARS ARE TOP BARS AT NON-CONTINUOUS ENDS.
'E' BARS ARE TOP BARS OVER RIGHT INTERIOR SUPPORTS. @ 6" O.C.
TOP BARS CALLED FOR AS CONTINUOUS WHEN SPICED, SHALL BE SPICED IN THE MIDDLE THIRD OF THE SPAN.
'I' INTERMEDIATE BARS IN SCHEDULE SHALL BE PLACED 1/2" EF.

BEAM SCHEDULE									
MARK	ELEV	DIM. (IN.)	REINFORCING			STIRRUPS		REMARKS	
			B	T	C	I	No.		
2B-1	42'-3 1/2"	8'x42"	2#5	2#5		4#5	3	@ 8" O.C.	UPTURN BEAM
2B-2	43'-10 1/2"	8'x16"	2#1	2#1			3	@ 6" O.C.	
2B-3	43'-10 1/2"	8'x24"	4#1	4#1			3	@ 6" O.C.	TWO LAYER
2B-4	43'-10 1/2"	8'x11"	2#1	2#1			3	@ 6" O.C.	
2B-5	43'-10 1/2"	8'x36"	2#5	2#5		2#5	3	@ 8" O.C.	ARCH BEAM
2B-6	43'-10 1/2"	8'x24"	2#5	2#5		2#5	3	@ 8" O.C.	
2B-7	43'-10 1/2"	24'x43.5"	4#5	4#5		4#5	3	@ 8" O.C.	ARCH BEAM
2B-8	43'-10 1/2"	12'x24"	3#5	3#5			3	@ 8" O.C.	
2TB-1	43'-10 1/2"	8'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
2TB-2	43'-10 1/2"	12'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
2TB-3	43'-10 1/2"	8'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
2TB-4	43'-10 1/2"	8'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
RTB-1	49'-3"	8'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
RTB-2	49'-3"	12'x12"	2#5	2#5			3	4#12" EE. BAL. #48'	
GB-1	MATCH TO EXISTING	14'x24"	4#5	4#5			3	@ 8" O.C.	
GB-2	MATCH TO EXISTING	14'x24"	6#5	6#5			4	@ 6" O.C.	TWO LAYER
GB-3	MATCH TO EXISTING	22'x24"	4#5	4#5			3	@ 8" O.C.	

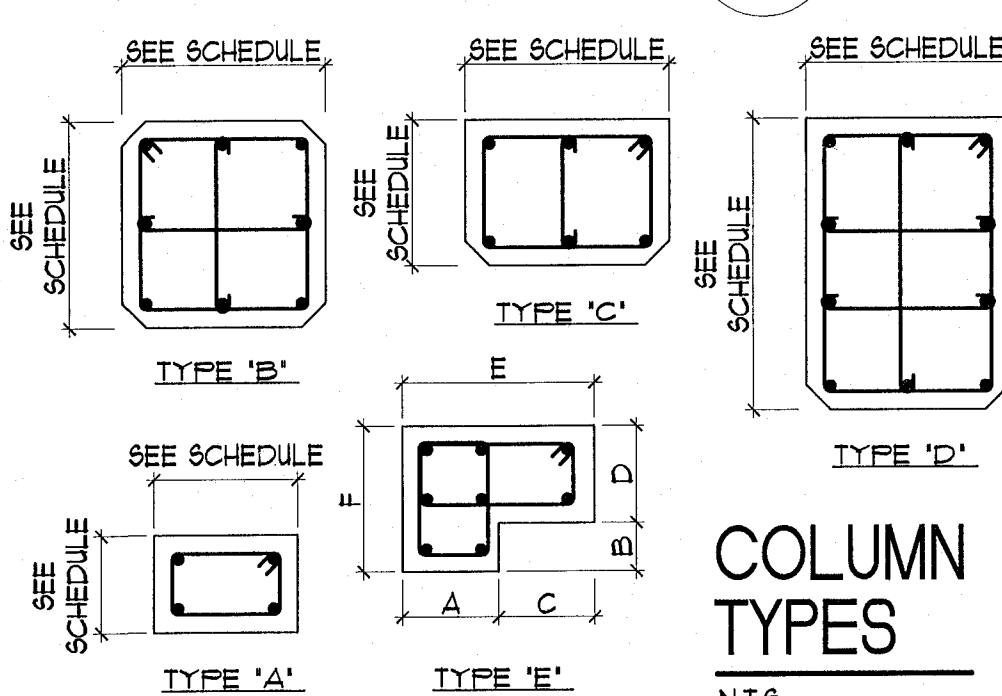
COLUMN SCHEDULE

MARK	SIZE (IN.) a b c d e f	REINFORCING		TIES	TYPE	REMARKS
		VERTICAL				
1	8' x 12'	4 #6		#3 @ 8" O.C.	A	CONCRETE
2	8' x 12'	8 #6		#3 @ 8" O.C.	E	CONCRETE
3	11' x 11'	8 #6		#3 @ 8" O.C.	B	CONCRETE
4	11' x 24'	10 #6		#3 @ 8" O.C.	D	CONCRETE
5	11' x 12'	6 #6		#3 @ 8" O.C.	C	CONCRETE
6	8' x 14'	4 #5		#3 @ 8" O.C.	A	CONCRETE. SEE DETAIL J/5-5
7	8' x 18'	4 #6		#3 @ 8" O.C.	A	CONCRETE. SEE DETAIL J/5-5
8	8' x 12'	4 #6		#3 @ 8" O.C.	A	CONCRETE. SEE DETAIL J/5-5



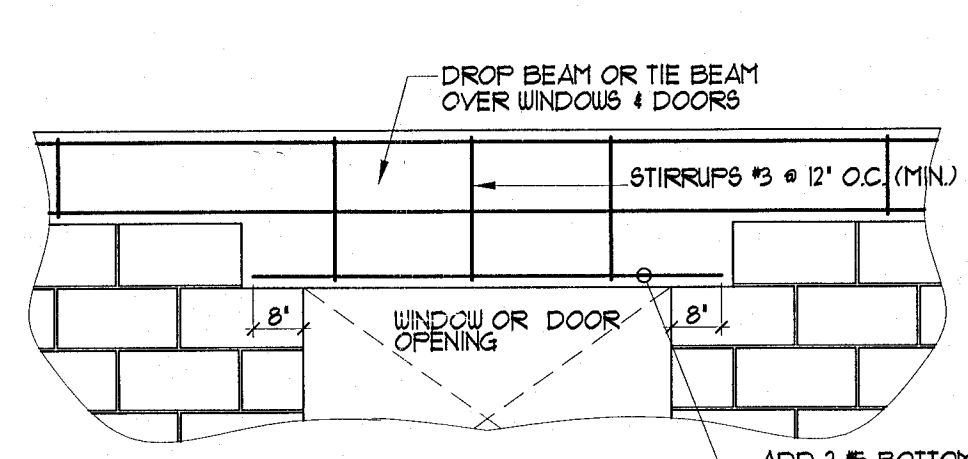
TYP. ARCH DETAIL

N.T.S.



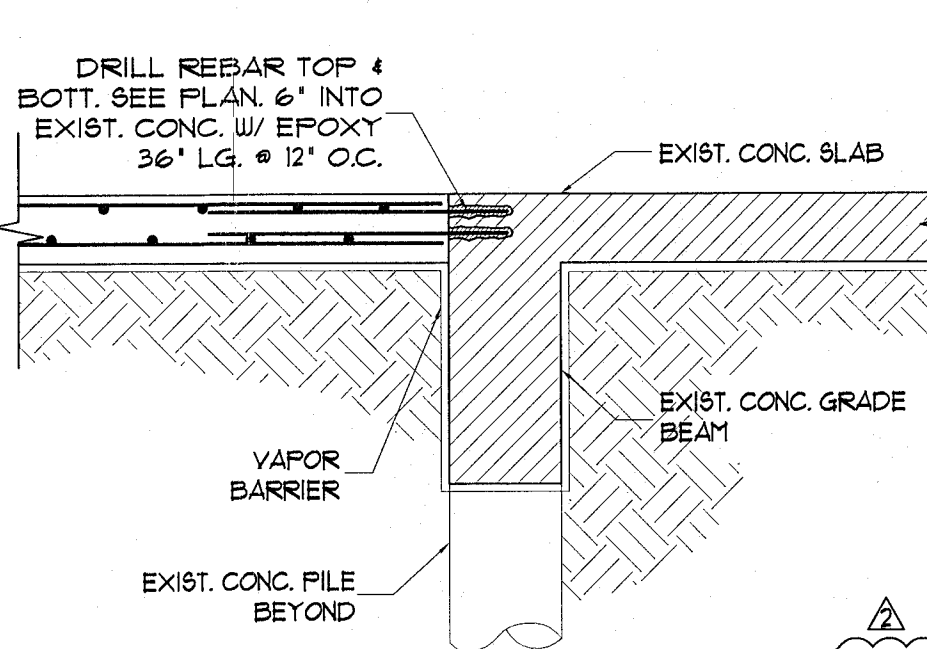
COLUMN TYPES

N.T.S.



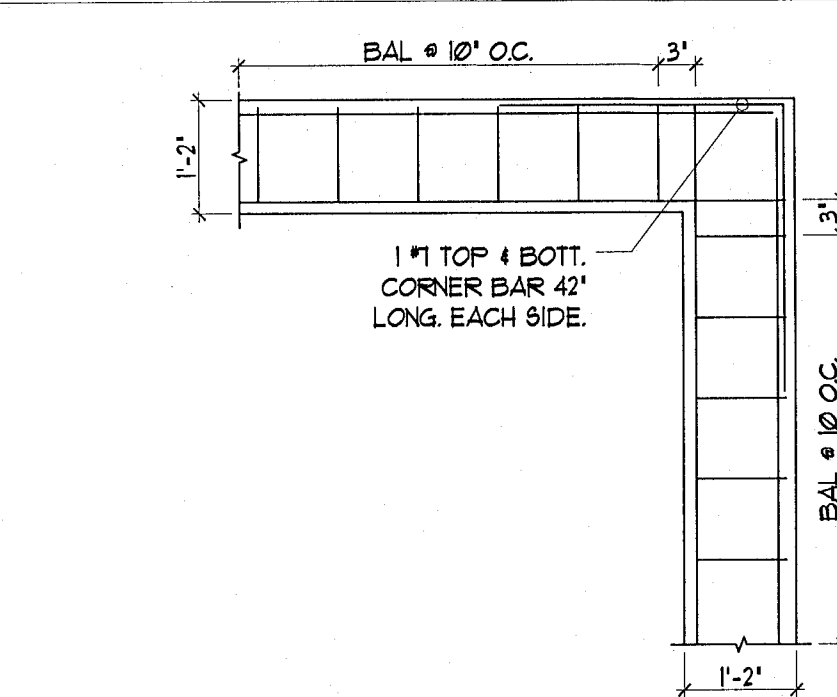
DROP TIE BEAM DETAIL

N.T.S.



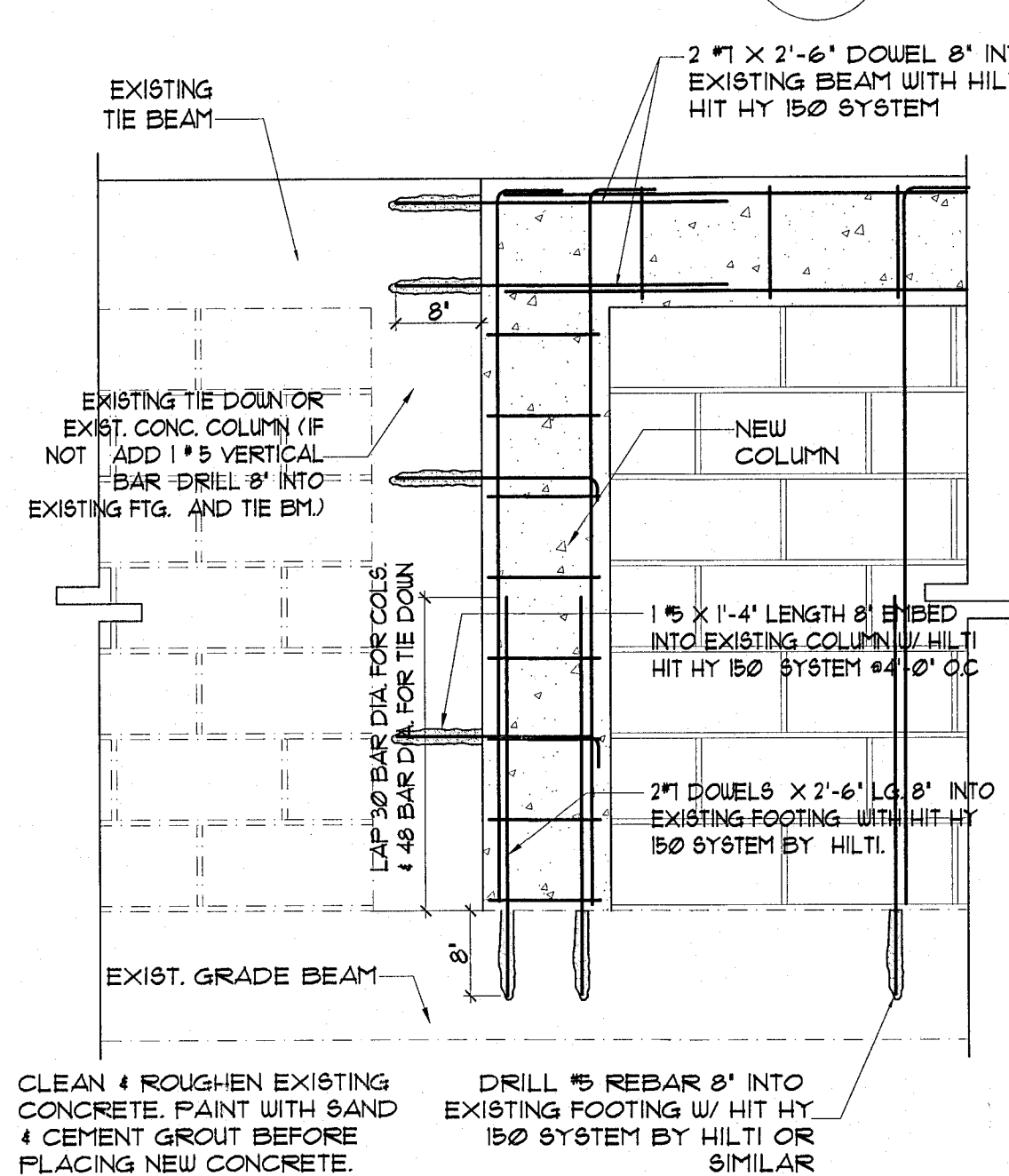
CONNECTION DETAIL

SCALE 1/2" = 1'-0"



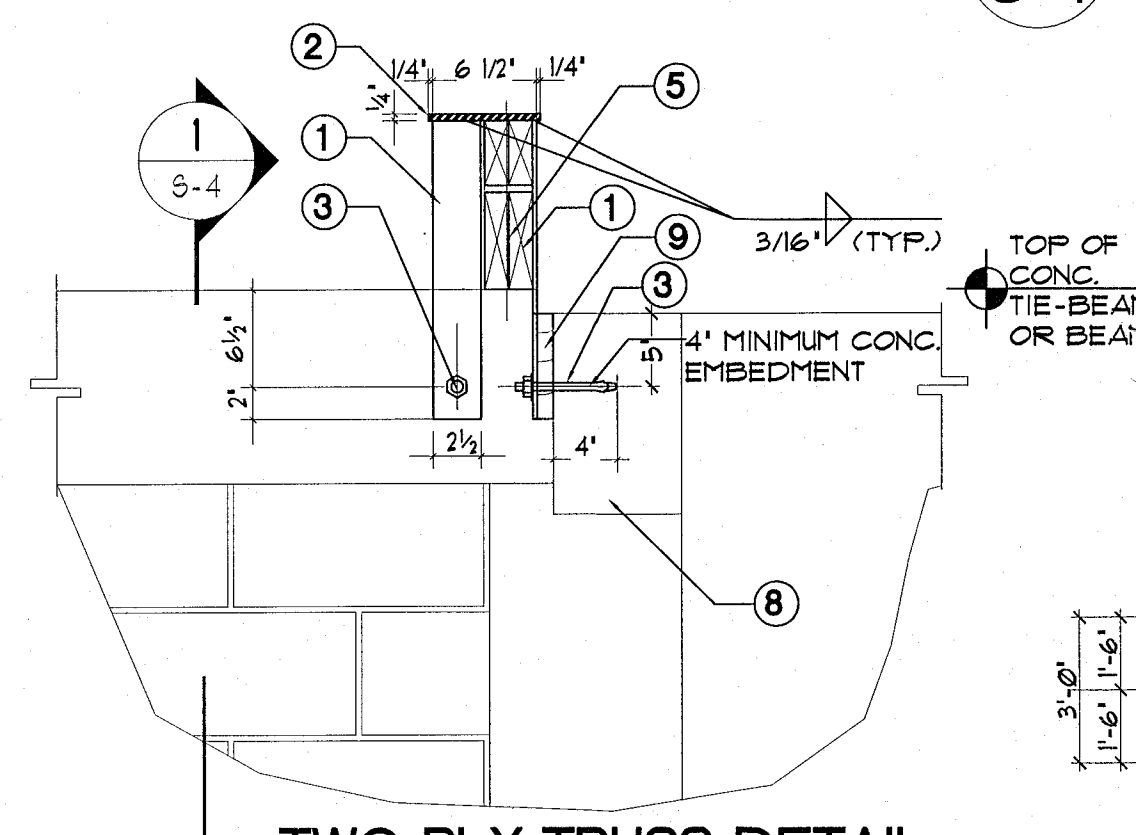
TYPICAL GRADE BEAM CORNER REINF DETAIL

N.T.S.



NEW STARTING COL. DETAIL

SCALE 3/4" = 1'-0"



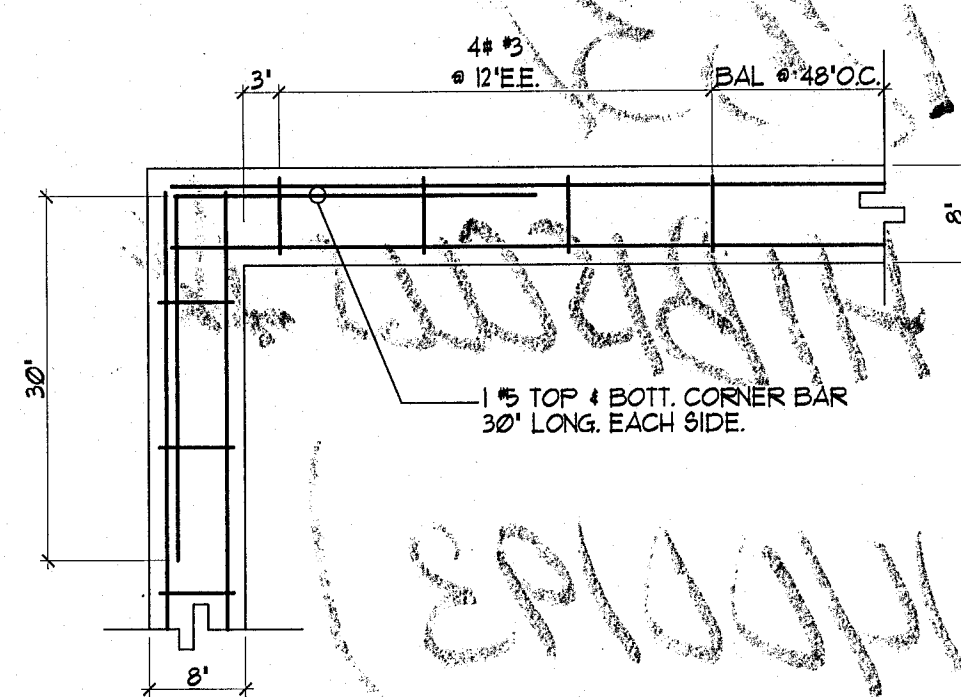
TWO PLY TRUSS DETAIL

(MAX. UPLIFT = 4000 #)

SPECIAL GIRDER TRUSS CONNECTION DETAIL

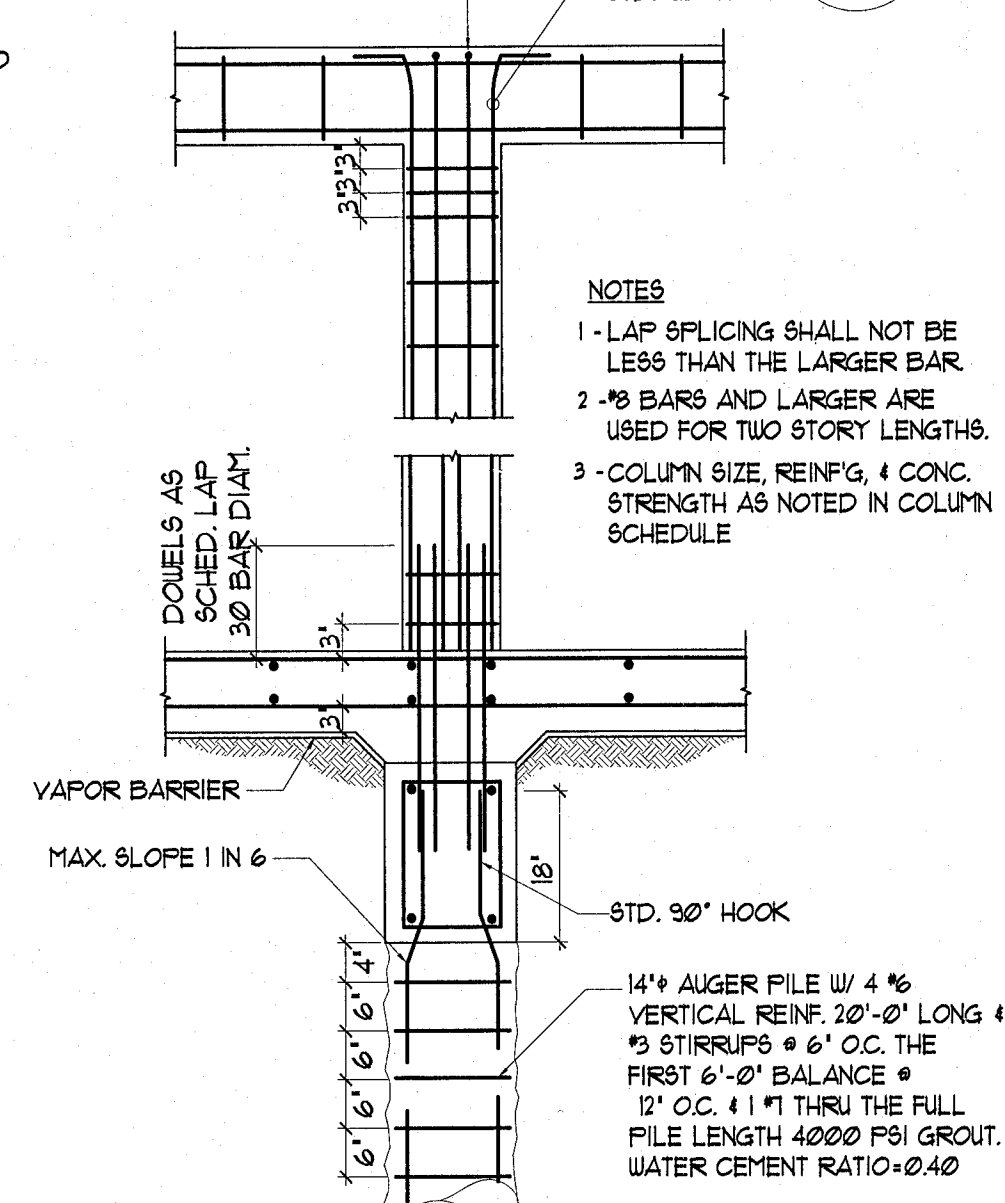
SCALE: 1" = 1'-0"

SCHEDULE	
MARK	DESCRIPTION
1	ANGLE 2"x2"x1/4" W/ EXTENDED LEG (Fy= 36ksi). SEE DWG.
2	STEEL PLATE 7"x 5"x1/4" (Fy= 36ksi).
3	1" DIAM. HILTI KWIK BOLT II (CARBON STEEL) X 4" EMBED.
4	1" DIAM. THRU BOLT FOR TWO PLY TRUSS.
5	PREFABRICATED WOOD TWO PLY TRUSS
6	8"x12" MIN. CONCRETE TIE BEAM (f'c=3,000 psi, MINIMUM)
7	CONCRETE MASONRY BLOCK
8	EXISTING TIE BEAM
9	WOOD FILLER



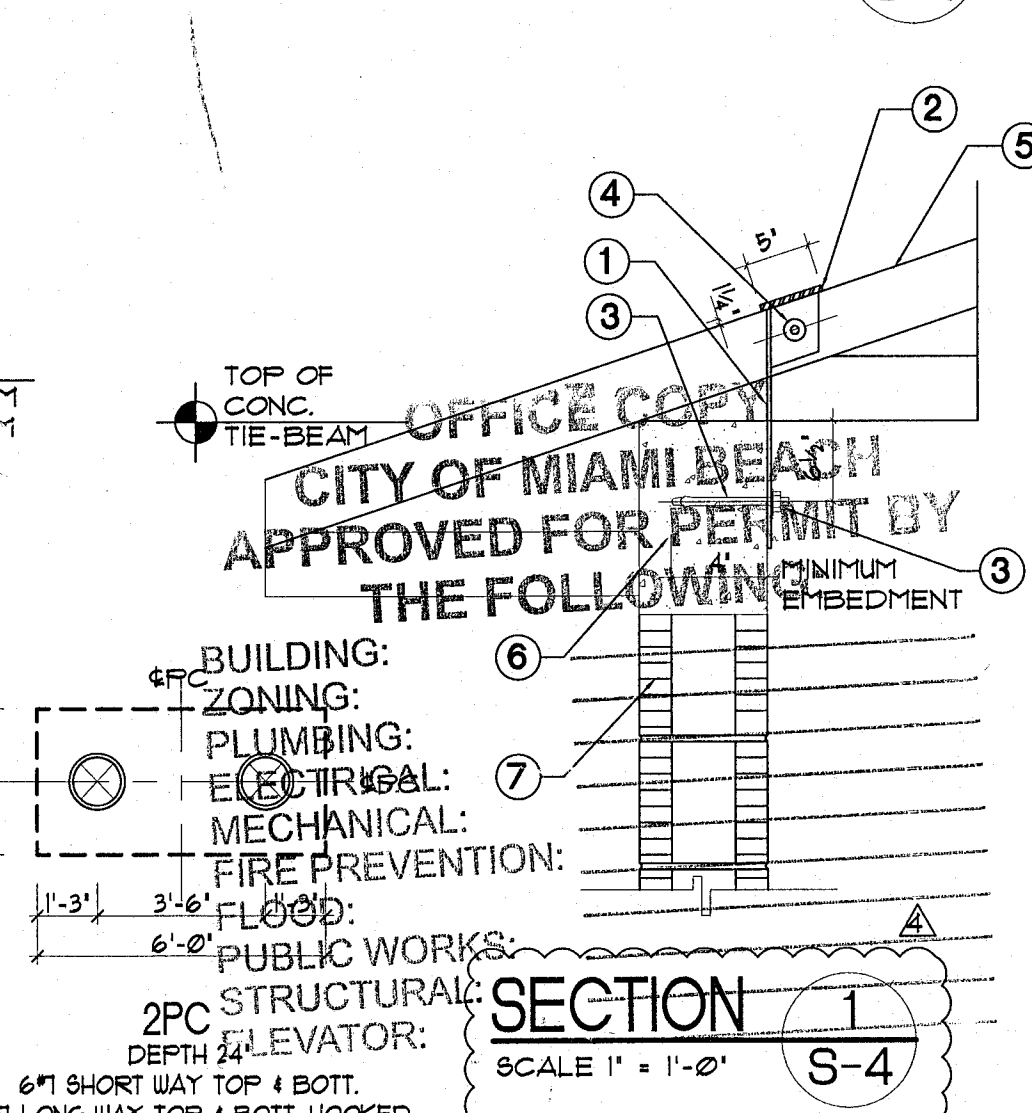
TYP. TIE BEAM AND BEAM CORNER DETAIL

N.T.S.



TYPICAL COLUMN TO GRADE BEAM DETAIL

SCALE 1/2" = 1'-0"



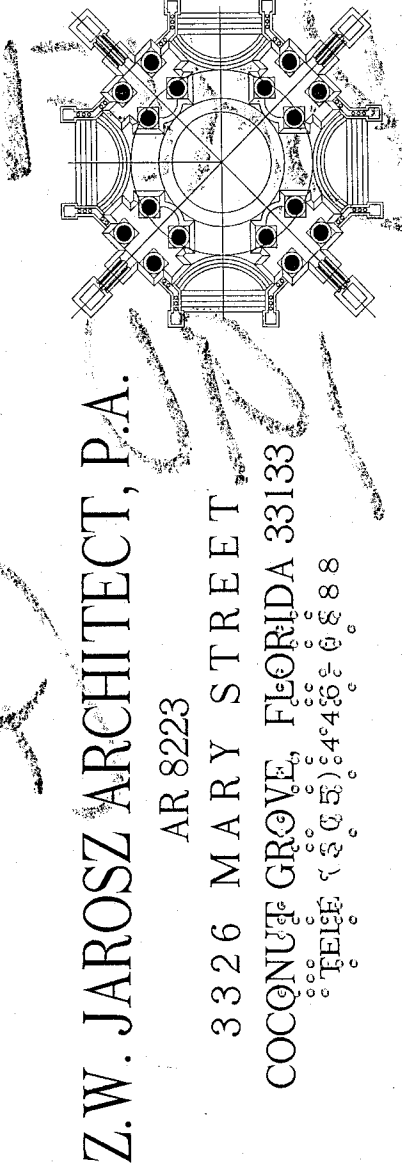
NOTICE:

ARCHITECT & STRUCTURAL DRAWINGS HAVE TO BE CONSULTED TOGETHER CALL ARCH/ENGINEER FOR ANY DISCREPANCY BEFORE START OF WORK



J. EDUARDO GONZALEZ P.E., INC.
STRUCTURAL ENGINEER
717 Ponce de Leon Blvd. Suite 200
Coral Gables, Florida 33134
Tel. (305) 445-9100 Fax (305) 445-9200
STATE OF FLORIDA REGISTRATION # 24927
STATE OF FLORIDA LICENSE # CA-00000000
PROJECT # 1331

"My professional judgment and to the best of my knowledge and belief, these plans and specifications comply with applicable Building Code. This document and the information it contains is the exclusive property of J. Eduardo Gonzalez P.E., Inc. and shall not be reproduced or used for any other purpose other than the specific project for which it was prepared without the explicit consent of J. Eduardo Gonzalez P.E., Inc."



PROJECT / SHEET TITLE

HIBISCUS ISLAND RESIDENCE

Lic. # AR8223

Revisions

No.	Date	Description
1	11-21-13	B.D.C.
2	01-20-14	B.D.C.
3	03-31-14	GENERAL COORD.
4	08-15-14	FIELD COND.

Date	Drawn by
	Checked By
	Scale
	Sheet

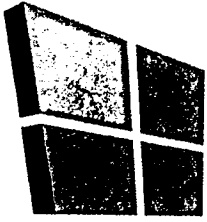
S-4

CAD ID:

BREV142531

BREV142531
190 SHIBISAWA
(B1400193)

(B1400193)



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

Client: KORUS

Project Name: SNYDER

Project Number: AFC #15-0636

Project Address: 3301 NW 22nd TERRACE

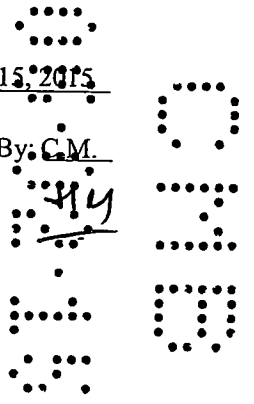
POMPAÑO BEACH FLORIDA 33069
City State ZIP

Building Height: 25 FEET.

Roof Slope: ☐ Slope ☒ Flat

Date: May 15, 2015

Engineered By: C.M.



Design Criteria:

- i, Florida Building Code 2010
- ii, Wind Loads are calculated as per ASCE 7-10.

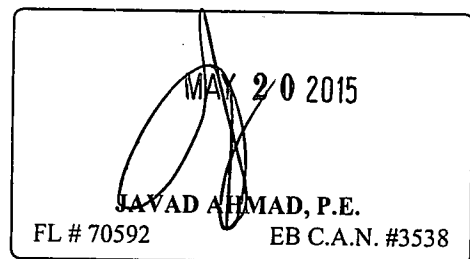
Notes:

- Any deviations from conditions shown on calculations or drawings shall be engineered separately.
- Al-Farooq Corporation will not provide a letter of compliance / inspection report unless called during installation.
- Shop drawings are checked for structural requirements only.

BREVISED

Disclaimer:

- This document is not valid without the embossed seal of an engineer employed by Al-Farooq Corporation.
- No portion of this document may be used or reproduced in any manner.



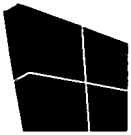
Korus USA, inc. 8615 N.W. 64 St Bay#1 Miami, FL 33166		Snyder 3301 NW 22nd Ter # 700F Pompano Beach, FL 33069		Wind Speed (mph) 170 Importance Factor 1.00 Exposure Category C Risk Category 2		Mean Roof Height [h] (ft) 25.00 Height Above Gnd. Level [z] (ft) 25.00 Horizontal Dimen. of Bldg. (ft) 102.00 Roof Slope (deg.) < 10 Type of Building With Impact Protection	
Coefficient Kh 0.95		Coefficient Kzt 1.00		Coefficient Kz 0.95		Coefficient Kd 0.85	
Velocity Pressure Evaluated @z [qz] (lb/ft^2) 59.74				Velocity Pressure Evaluated @h [qh] (lb/ft^2) 59.74			

Mark	Comp Type	Component Size			Gcp Coefficients				Gcpi Coeff.		Design Wind Pressures (lb/ft^2)					In Zone
		W (in)	H (in)	S (in)	A ft^2	Z4+	Z5+	Z4-	Z5-	Pos	Neg	Z4+	Z4-	Z5+	Z5-	
ALL					10.00	0.90	0.90	-0.99	-1.26	0.18	-0.18	38.7	-41.9	38.7	-51.6	Z5


 MAY 20 2015

ASCE 7-10 WIND LOADS ON COMPONENTS AND CLADDING : AL-FAROOQ CORPORATION, 1235 S.W. 87th AVE, MIAMI FL, 33174 TEL: 305-261-8100

Engineers Seal	Engineers Name And Signature	Design Date 5/15/2015 1:45:04 PM	Design Reference Number 15-0636
-----------------------	-------------------------------------	---	--



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE TEL. (305) 264-8100
MIAMI, FLORIDA 33174 FAX. (305) 262-6978

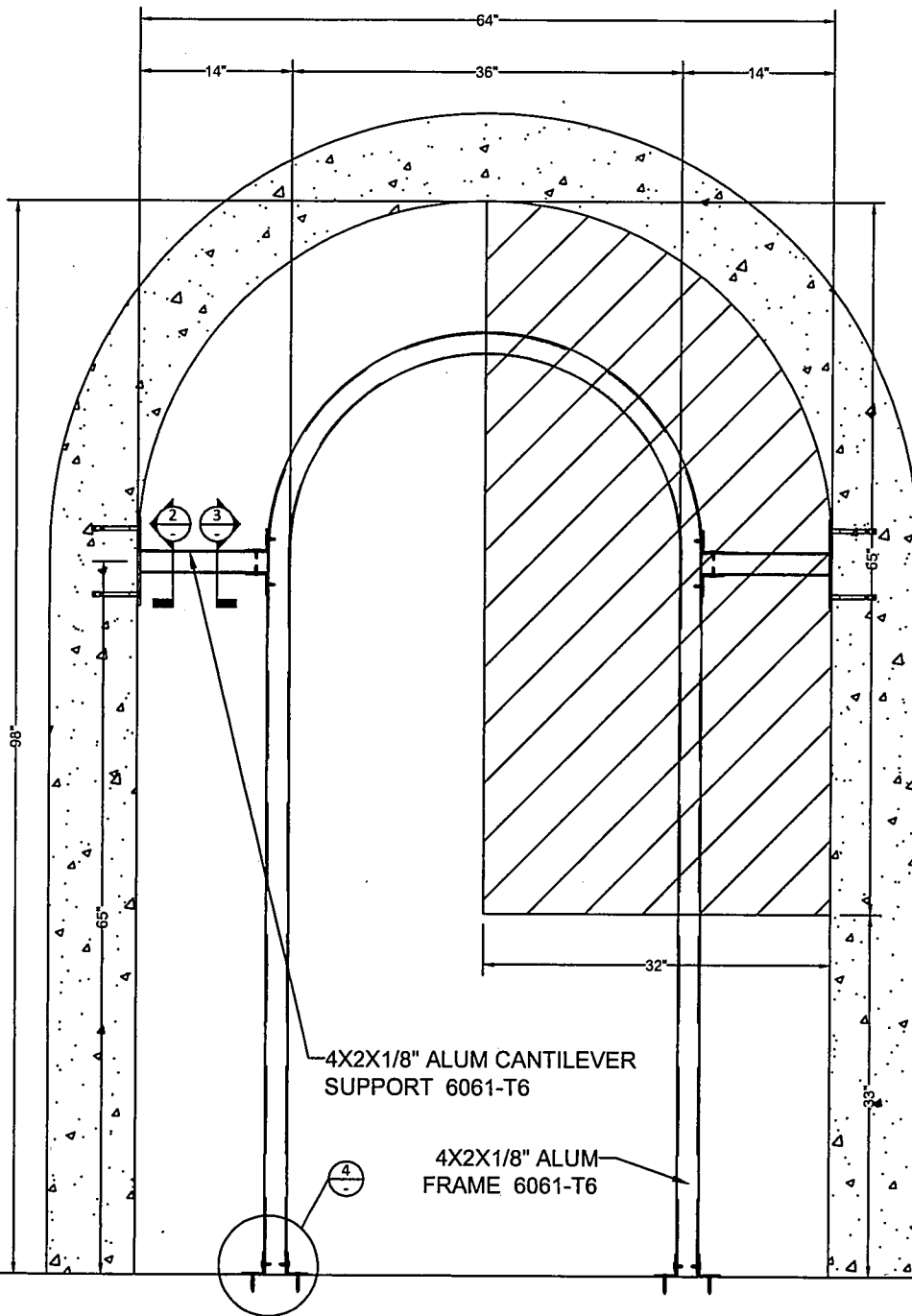
CLIENT:

KORUS USA, INC.

PROJECT:

SNYDER

05-15-15 BY: C.M. AFC15-0636

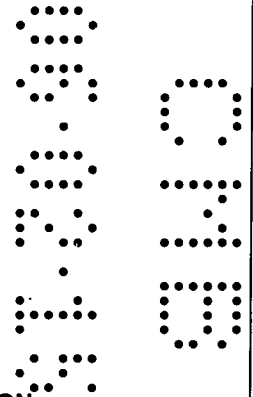


LOAD CALCULATION:

TRIBUTARY AREA = 1056 IN²
= 7.33 SQFT

LOAD = 51.6 PSF

POINT LOAD = R2 = 378.4 LBS



LOAD CALCULATION:

TRIBUTARY AREA = 1874 IN²
= 13 SQFT

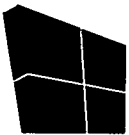
LOAD = 51.6 PSF

POINT LOAD = R1 = 671.51 LBS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 20 2015





AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE TEL. (305) 264-8100
MIAMI, FLORIDA 33174 FAX. (305) 262-6978

CLIENT:

KORUS USA, INC.

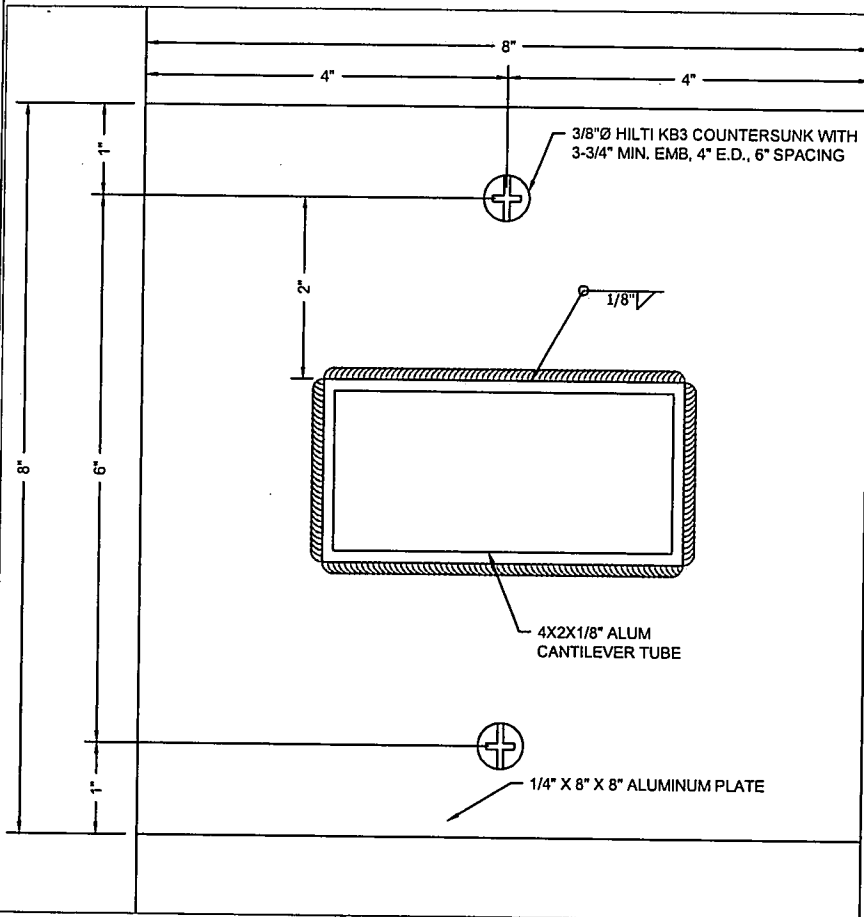
PROJECT:

SNYDER

05-15-15

BY: C.M.

AFC15-0636



ACNHOR CALCULATION:

POINT LOAD = $R1 = 671.51$ LBS
MOMENT = $M = 12" \times 671.51$ LBS
= 8058 LBS - IN

PEAK TENSION PER ANCHOR:
 $T = M / (4 \times 2) = 1007.26$ LBS

PEAK SHEAR PER ANCHOR:
 $S = R1 / 2 = 335.75$ LBS

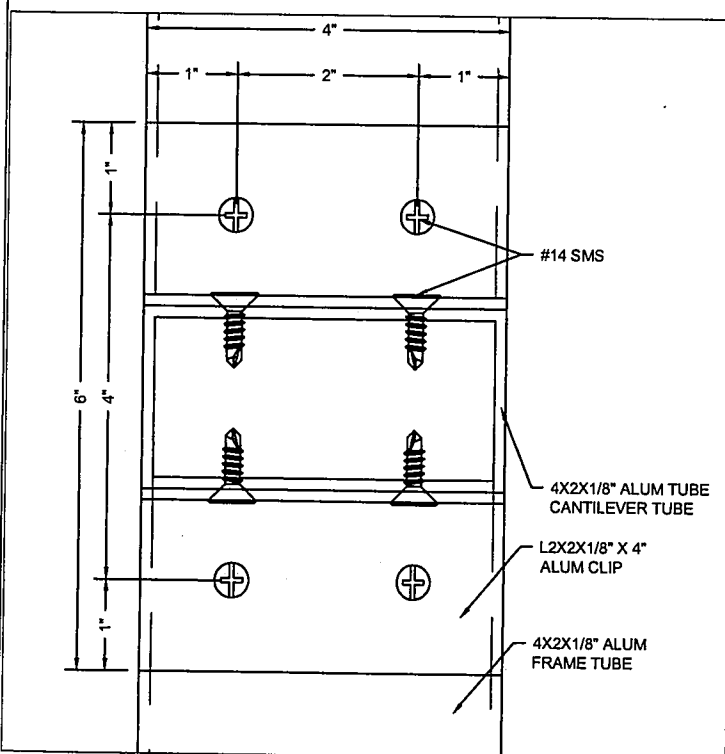
3/8" Ø HILTI KB3 COUNTERSUNK WITH
3-3/4" MIN. EMB, 4" E.D., 6" SPACING
 $Ta = 1770 \times (1) \times (1) = 1770$ LBS
 $Sa = 1315 \times (.82) \times (1) = 1078.3$ LBS

COMBINED STRESSES:
 $(T / Ta) + (S / Sa) \leq 1$

$(1008 / 1770) + (335.75 / 1078.3) = .88 < 1$

OK TO USE //

DETAIL
SCALE: 6"=1'-0"
2



ACNHOR CALCULATION:

POINT LOAD = $R1 = 671.51$ LBS

#14 SMS W/ 3/4" MIN. E.D.
 $Sa = 398$ LBS

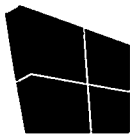
$Sa(2) > R$;

OK TO USE //

DETAIL
SCALE: 6"=1'-0"
3

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 20 2015



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ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE TEL. (305) 264-8100
MIAMI, FLORIDA 33174 FAX. (305) 262-6978

CLIENT:

KORUS USA, INC.

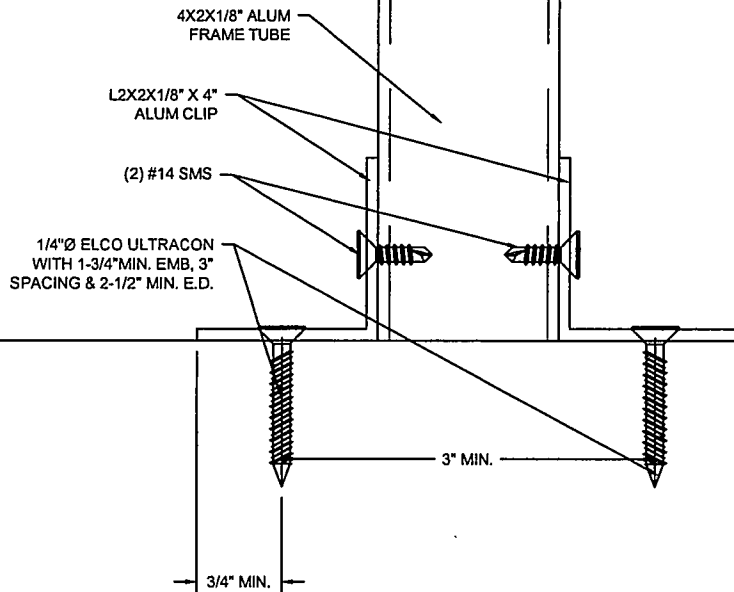
PROJECT:

SNYDER

05-15-15

BY: C.M.

AFC15-0636



DETAIL
SCALE: 6"=1'-0"
4

ACNHOR CALCULATION:

POINT LOAD = R2 = 378.4 LBS

#14 SMS W/ 3/4" MIN. E.D.

Sa = 398 LBS

Sa(4) > R2;

OK TO USE //

1/4"Ø ELCO ULTRACON WITH 1-3/4"MIN.

EMB, 3" SPACING & 2-1/2" MIN. E.D.

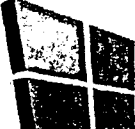
Sa = 390 LBS

Sa > R2;

OK TO USE //

Engr: JAVAD AHMAD
CIVIL
FLA. PE #/70592
C.A.N. 3538

MAY 20 2015

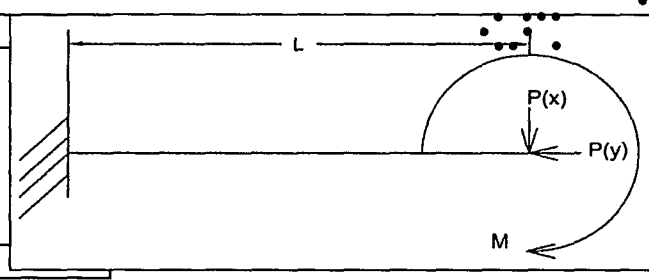
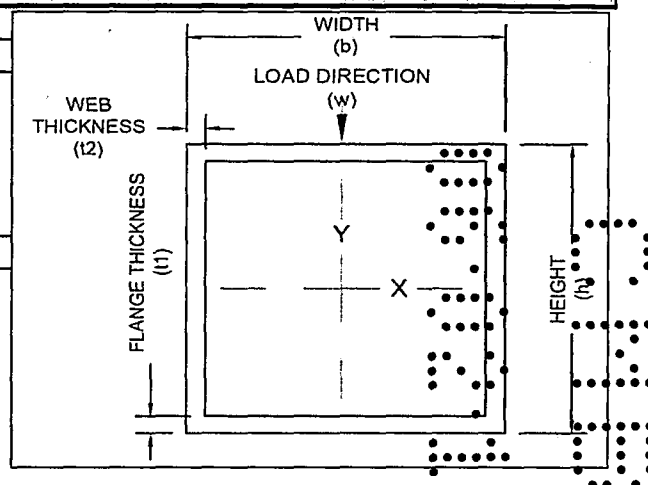
	AL FAROOQ CORPORATION	
	CLIENT NAME:	KORUS USA, INC
	PROJECT NAME:	SNYDER
	PROJECT ADDRESS:	3301 NW 22nd TER. # 700F, POMPANO BEACH, FL 33069
AFC #		14-1166

MARK	CANTILEVER TUBE
SECTION INPUT	
HEIGHT (h)	4
WIDTH (b)	2
FLANGE (t1)	0.125
WEB (t2)	0.125

MATERIAL PROPERTIES			
ALUMINUM		ALUM 6061-T6 [WELDED]	
yield stress	Fy	15,000.00	psi
E. Modulus	E	10,000,000.00	psi
M. Inertia	I	2.98	in^4
Section Mod.	Sx	1.49	IN^3
Area	A	1.44	in^2

LOAD CONDITION			
Pd	P(x)	671.51	lbs
SPAN	P(y)	0	lbs
LENGTH	L	12	in

MEMBER DESIGN LOADS & END REACTIONS
--



$$M_{max} = P_x * L + M \quad 8,058.12 \text{ lbs-in}$$

$$\Delta_{max} = \frac{P_x L^3}{3EI} \quad 0.01 \text{ in}$$

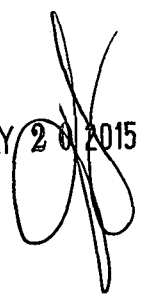
$$\Delta_{all} = \frac{l}{180} \quad 0.07 \text{ in}$$

$$S_{min} = \frac{M}{F_b} \quad 0.90 \text{ in}^3$$

$$V = P_x \quad 671.51 \text{ lbs}$$

Moment @ Ends
ok to use
ok to use
end reactions

MAY 20 2015



4.3.5 Kwik Bolt 3 Expansion Anchor

Table 6 - Carbon Steel Kwik Bolt 3 Allowable Loads in Normal-Weight Concrete¹

Anchor Diameter in. (mm)	Embedment Depth in. (mm)	$f'_c = 2000 \text{ psi (13.8 MPa)}$		$f'_c = 3000 \text{ psi (20.7 MPa)}$		$f'_c = 4000 \text{ psi (27.6 MPa)}$		$f'_c = 6000 \text{ psi (41.4 MPa)}$	
		Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)
1/4 (6.4)	1-1/8 (29)	300 (1.3)	530 (2.4)	365 (1.6)	530 (2.4)	430 (1.9)	530 (2.4)	550 (2.4)	530 (2.4)
	2 (51)	635 (2.8)		715 (3.2)		800 (3.6)		845 (3.8)	
	3 (76)	755 (3.4)		795 (3.5)		840 (3.7)			
3/8 (9.5)	1-5/8 (41)	730 (3.2)	1135 (5.0)	910 (4.0)	1275 (5.7)	1095 (4.9)	1420 (6.3)	1090 (4.8)	1315 (5.8)
	2-1/2 (64)	1260 (5.6)	1315 (5.8)	1555 (6.9)	1315 (5.8)	1850 (8.2)	1315 (5.8)	2060 (9.2)	
	3-1/2 (89)	1580 (7.0)		1770 (7.9)		1965 (8.7)		2150 (9.6)	
1/2 (12.7)	2-1/4 (57)	1235 (5.5)	1865 (8.3)	1420 (6.4)	2300 (10.2)	1620 (7.2)	2405 (10.7)	1975 (8.8)	2415 (10.7)
	3-1/2 (89)	1930 (8.6)	2415 (10.7)	2185 (9.7)	2415 (10.7)	2440 (10.9)	2415 (10.7)	3240 (14.4)	
	4-3/4 (121)	2135 (9.5)		2355 (10.5)		2575 (11.5)		3620 (16.1)	
5/8 (15.9)	2-3/4 (70)	1920 (8.5)	2750 (12.2)	2065 (9.2)	3410 (15.2)	2210 (9.8)	3785 (16.8)	2830 (12.6)	3910 (17.4)
	4 (102)	2660 (11.8)	3910 (17.4)	3020 (13.4)	3910 (17.4)	3385 (15.1)	3910 (17.4)	4770 (21.2)	
	5-1/2 (140)	3285 (14.6)		3695 (16.4)		4100 (18.2)		5325 (23.7)	
3/4 (19.1)	3-1/4 (83)	2120 (9.4)	4090 (18.2)	2425 (10.8)	4900 (21.8)	2730 (12.1)	5310 (23.6)	3785 (16.8)	5310 (23.6)
	4-3/4 (121)	3240 (14.4)	5340 (23.8)	4260 (18.9)	5340 (23.8)	5285 (23.5)	5495 (24.4)	6155 (27.4)	6225 (27.7)
	6-1/2 (165)	4535 (20.2)		5860 (26.1)		7185 (32)		7005 (31.2)	
1 (25.4)	4-1/2 (114)	3330 (14.8)	7070 (31.4)	4050 (18.0)	7600 (33.8)	4670 (20.8)	8140 (36.2)	5070 (22.6)	9200 (40.9)
	6 (152)	4930 (21.9)	9200 (40.9)	6000 (26.7)	9200 (40.9)	7070 (31.4)	9200 (40.9)	8400 (37.4)	
	9 (229)	6670 (29.7)		7670 (34.1)		8670 (38.6)		10670 (47.5)	

¹ Intermediate load values for other concrete strengths and embedments can be calculated by linear interpolation.

4.3.5 Kwik Bolt 3 Expansion Anchor

Influence of Edge Distance and Anchor Spacing on Anchor Performance

Load Adjustment Factors for 1/4 in. Diameter Anchors									
Adjustment Factor 1/4 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{RT}		Spacing Shear f_{AS}	Edge Distance Shear				
		1-1/8	≥2		⊥ toward edge f_{RV1}	∥ to edge f_{RV2}	⊥ away from edge f_{RV3}		
Embedment Depth, in.					≥1-1/8	≥1-1/8	≥1-1/8		
1-1/8	0.60	0.80	0.90	0.50	0.60	0.83			
1-11/16	0.75	0.93	0.94	0.52	0.61	0.84			
1-3/4	0.78	0.95	0.94	0.52	0.61	0.84			
2	0.85	0.60	0.80	0.59	0.67	0.86			
2-1/4	0.92	0.64	0.83	0.91	0.67	0.73	0.89		
2-1/2	0.99	0.68	0.87	1.00	0.92	0.74	0.79	0.91	
3	1.00	0.76	0.93	0.94	0.89	0.91	0.96		
3-3/8	0.82	0.98	0.96	1.00	1.00	1.00	1.00		
3-1/2	0.84	1.00	0.96						
4	0.92		0.98						
4-1/2	1.00		1.00						
4-3/4									
5									

Load Adjustment Factors for 3/8 in. Diameter Anchors									
Adjustment Factor 3/8 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{RT}		Spacing Shear f_{AS}	Edge Distance Shear				
		1-5/8	≥2-1/2		⊥ toward edge f_{RV1}	∥ to edge f_{RV2}	⊥ away from edge f_{RV3}		
Embedment Depth, in.					≥1-5/8	≥1-5/8	≥1-5/8		
1-5/8	0.60	0.80	0.90	0.50	0.60	0.83			
2	0.67	0.86	0.92	0.52	0.61	0.84			
2-1/4	0.72	0.90	0.93	0.52	0.61	0.84			
2-1/2	0.77	0.60	0.80	0.90	0.51	0.61	0.83		
3	0.87	0.66	1.00	0.85	0.97	0.62	0.69	0.87	
3-1/4	0.92	0.70	0.88	0.92	0.67	0.73	0.89		
3-1/2	0.97	0.73	0.91	0.99	0.93	0.72	0.77	0.90	
3-3/4	1.00	0.76	0.93	1.00	0.94	0.77	0.82	0.92	
4	0.79	0.96	0.95	0.82	0.86	0.94			
4-1/2	0.86	1.00	0.96	0.92	0.94	0.97			
5	0.92		0.98	1.00	1.00	1.00			
5-5/8	1.00		1.00						
5-3/4									

Load Adjustment Factors for 1/2 in. Diameter Anchors									
Adjustment Factor 1/2 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{RT}		Spacing Shear f_{AS}	Edge Distance Shear				
		2-1/4	≥3-1/2		⊥ toward edge f_{RV1}	∥ to edge f_{RV2}	⊥ away from edge f_{RV3}		
Embedment Depth, in.					≥2-1/4	≥2-1/4	≥2-1/4		
2-1/4	0.60	0.80	0.90	0.50	0.60	0.83			
2-1/2	0.64	0.83	0.91	0.52	0.61	0.84			
3	0.71	0.89	0.93	0.52	0.61	0.84			
3-3/8	0.76	0.93	0.94	0.50	0.60	0.83			
3-3/4	0.81	0.62	0.98	0.82	0.95	0.91	0.56	0.64	0.85
4-1/4	0.88	0.67	1.00	0.86	0.97	0.92	0.63	0.70	0.87
4-3/4	0.96	0.71	0.90	0.99	0.93	0.70	0.76	0.90	
5	1.00	0.74	0.91	1.00	0.93	0.74	0.79	0.91	
5-3/4	0.81	0.97	0.95	0.85	0.88	0.95			
6	0.83	1.00	0.96	0.89	0.91	0.96			
6-1/2	0.87		0.97	0.96	0.97	0.99			
7-1/4	0.94		0.99	1.00	1.00	1.00			
7-3/4	1.00		1.00						

Standard Anchor Embedments (in.)		
1/4	h_{min}	1-1/8
	h_{nom}	2
	h_{deep}	3
3/8	h_{min}	1-5/8
	h_{nom}	2-1/2
	h_{deep}	3-1/2
1/2	h_{min}	2-1/4
	h_{nom}	3-1/2
	h_{deep}	4-3/4

Note: Tables apply for listed embedment depths. Reduction factors for other embedment depths must be calculated using equations below.

Spacing — Tension

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{AT} = \frac{s/h_{act} + 0.88}{3.13} \quad f_{AT} = \frac{s/h_{nom} + 0.88}{3.13}$$

Edge Distance — Tension

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{RT} = \frac{c/h_{act} + 2}{3.75} \quad f_{RT} = \frac{c/h_{nom} + 2}{3.75}$$

Spacing — Shear

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{AS} = \frac{s/h_{act} + 10.25}{12.5} \quad f_{AS} = \frac{s/h_{nom} + 10.25}{12.5}$$

Edge Distance — Shear

$$h_{act} \geq h_{min}$$

perpendicular toward edge

$$f_{RV1} = \frac{c}{3h_{min}}$$

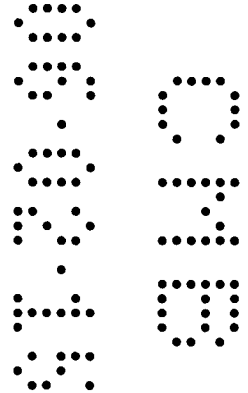
parallel to edge

$$f_{RV2} = \frac{c/h_{min} + 0.75}{3.75}$$

perpendicular away from edge

$$f_{RV3} = \frac{c/h_{min} + 5.82}{8.82}$$

Note: Edge distance and anchor spacing for all light-weight and sand-lightweight concrete are obtained by dividing the normal-weight dimensions by 0.75 and 0.85, respectively.



Kwik Bolt 3 Expansion Anchor 4.3.5

Influence of Edge Distance and Anchor Spacing on Anchor Performance

Load Adjustment Factors for 5/8 in. Diameter Anchors									
Adjustment Factor 5/8 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{ET}		Spacing Shear f_{AS}	Edge Distance Shear			f_{RT1}	f_{RT2}
		$\perp$ to edge f_{ET1}	$\parallel$ to edge f_{ET2}		$\perp$ to edge f_{RS1}	$\parallel$ to edge f_{RS2}	$\perp$ away from edge f_{RS3}		
Embedment Depth, in.	2-3/4	≥ 4	2-3/4	≥ 4	2-3/4	≥ 4	$\geq 2-3/4$	$\geq 2-3/4$	$\geq 2-3/4$
2-3/4	0.60	0.80	0.90	0.90	0.52	0.61	0.84	0.52	0.61
3-1/2	0.69	0.87	0.92	0.92	0.52	0.61	0.84	0.52	0.61
4	0.75	0.60	0.92	0.80	0.94	0.90	0.90	0.94	0.90
4-1/4	0.77	0.62	0.95	0.82	0.94	0.91	0.52	0.61	0.84
4-3/4	0.83	0.66	1.00	0.85	0.96	0.92	0.58	0.66	0.86
5-1/2	0.92	0.72	0.90	0.98	0.93	0.67	0.73	0.89	0.91
6	0.98	0.76	0.93	0.99	0.94	0.73	0.78	0.91	0.91
6-1/4	1.00	0.78	0.95	1.00	0.95	0.76	0.81	0.92	0.92
7	0.84	1.00	0.96	0.85	0.88	0.95	0.95	0.95	0.95
7-1/2	0.88	0.97	0.91	0.93	0.97	0.97	0.97	0.97	0.97
7-3/4	0.90	0.98	0.94	0.95	0.98	0.94	0.95	0.98	0.98
8-1/2	0.96	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Load Adjustment Factors for 3/4 in. Diameter Anchors									
Adjustment Factor 3/4 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{ET}		Spacing Shear f_{AS}	Edge Distance Shear			f_{RT1}	f_{RT2}
		$\perp$ to edge f_{ET1}	$\parallel$ to edge f_{ET2}		$\perp$ to edge f_{RS1}	$\parallel$ to edge f_{RS2}	$\perp$ away from edge f_{RS3}		
Embedment Depth, in.	3-1/4	$\geq 4-3/4$	3-1/4	$\geq 4-3/4$	3-1/4	$\geq 4-3/4$	$\geq 3-1/4$	$\geq 3-1/4$	$\geq 3-1/4$
3-3/8	0.61	0.81	0.90	0.90	0.51	0.61	0.83	0.51	0.61
4	0.67	0.86	0.92	0.92	0.51	0.61	0.83	0.51	0.61
5	0.77	0.62	0.94	0.81	0.94	0.90	0.51	0.61	0.83
5-3/4	0.85	0.67	1.00	0.86	0.96	0.92	0.59	0.67	0.86
6-1/4	0.90	0.70	0.88	0.97	0.93	0.64	0.71	0.88	0.88
6-1/2	0.92	0.72	0.90	0.98	0.93	0.67	0.73	0.89	0.89
7	0.97	0.75	0.93	0.99	0.94	0.72	0.77	0.90	0.90
7-1/2	1.00	0.79	0.95	1.00	0.95	0.77	0.82	0.92	0.92
8-1/4	0.84	1.00	0.96	0.85	0.88	0.95	0.95	0.95	0.95
9	0.89	0.97	0.92	0.94	0.97	0.92	0.94	0.97	0.97
9-3/4	0.94	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10-1/4	0.97	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10-3/4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Load Adjustment Factors for 1 in. Diameter Anchors									
Adjustment Factor 1 in.	Spacing Tension f_{AT}	Edge Distance Tension, f_{ET}		Spacing Shear f_{AS}	Edge Distance Shear			f_{RT1}	f_{RT2}
		$\perp$ to edge f_{ET1}	$\parallel$ to edge f_{ET2}		$\perp$ to edge f_{RS1}	$\parallel$ to edge f_{RS2}	$\perp$ away from edge f_{RS3}		
Embedment Depth, in.	4-1/2	≥ 6	4-1/2	≥ 6	4-1/2	≥ 6	$\geq 4-1/2$	$\geq 4-1/2$	$\geq 4-1/2$
4-1/2	0.60	0.80	0.90	0.90	0.52	0.61	0.84	0.52	0.61
6	0.71	0.60	0.89	0.80	0.93	0.90	0.90	0.93	0.90
7	0.78	0.65	0.95	0.84	0.94	0.91	0.52	0.61	0.84
8	0.85	0.71	1.00	0.89	0.96	0.93	0.59	0.67	0.86
9	0.92	0.76	0.93	0.98	0.94	0.67	0.73	0.89	0.91
9-3/4	0.97	0.80	0.97	0.99	0.95	0.72	0.78	0.91	0.91
10-1/4	1.00	0.83	0.99	1.00	0.96	0.76	0.81	0.92	0.92
11-1/4	0.88	1.00	0.97	0.83	0.87	0.94	0.94	0.94	0.94
11-5/8	0.90	0.98	0.86	0.89	0.95	0.95	0.95	0.95	0.95
12-1/2	0.95	0.99	0.93	0.94	0.97	0.94	0.97	0.97	0.97
13	0.97	0.99	0.96	0.97	0.99	0.96	0.97	0.99	0.99
13-1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14-3/4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Standard Anchor Embedments (in.)		
5/8	h_{min}	2-3/4
	h_{nom}	4
	h_{deep}	5-1/2
3/4	h_{min}	3-1/4
	h_{nom}	4-3/4
	h_{deep}	6-1/2 ¹
1	h_{min}	4-1/2
	h_{nom}	6
	h_{deep}	9

¹ Embedment depth shown reflects embedment for carbon steel anchor, deep embedment depth for stainless steel anchor is 8 inch.

Note: Tables apply for listed embedment depths. Reduction factors for other embedment depths must be calculated using equations below.

Spacing — Tension

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{AT} = \frac{s/h_{act} + 0.88}{3.13} \quad f_{AT} = \frac{s/h_{nom} + 0.88}{3.13}$$

Edge Distance — Tension

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{ET} = \frac{c/h_{act} + 2}{3.75} \quad f_{ET} = \frac{c/h_{nom} + 2}{3.75}$$

Spacing — Shear

$$h_{min} \leq h_{act} \leq h_{nom} \quad h_{act} \geq h_{nom}$$

$$f_{AS} = \frac{s/h_{act} + 10.25}{12.5} \quad f_{AS} = \frac{s/h_{nom} + 10.25}{12.5}$$

Edge Distance — Shear

$$h_{act} \geq h_{min}$$

perpendicular toward edge

$$f_{RT1} = \frac{c}{3h_{min}}$$

parallel to edge

$$f_{RT2} = \frac{c/h_{min} + 0.75}{3.75}$$

perpendicular away from edge

$$f_{RT3} = \frac{c/h_{min} + 5.82}{8.82}$$

Note: Edge distance and anchor spacing for all light-weight and sand-lightweight concrete are obtained by dividing the normal-weight dimensions by 0.75 and 0.85, respectively.

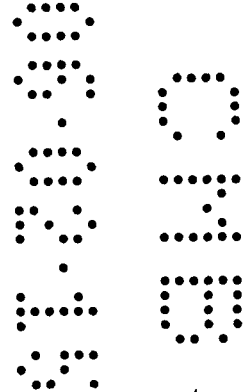


TABLE 20.2: Fastener Capacity

SAE Grade 2 Steel for Diameters up thru 9/16" (UNC Threads)															
Nominal Fastener Diameter & Threads per Inch	D Nominal Thread Diameter (in)	A(S) Tensile Stress Area (in ²)	A(R) Thread Root Area (in ²)	Allowable Tension (lbs)	Allowable Shear		Allowable Bearing (lbs)			Minimum Material Thickness (lbs) to Equal Tensile Capacity of Fastener (in)			Maximum Tensile Load (lbs) for Available 3/8" Plate Thickness		
					Single (lbs)	Double (lbs)	1/8" Steel A36	1/8" Aluminum 6063-T5	1/8" Aluminum 6063-T6	A36	6063-T5	6063-T6	3/8" Steel A36	3/8" Aluminum 6063-T5	3/8" Aluminum 6063-T6
#6-32	0.1380	0.0091	0.0078	224	111	222	900	253	345	0.0988	0.2005	0.1522	224	224	224
#8-32	0.1640	0.0140	0.0124	346	177	353	1,070	301	410	0.1282	0.2487	0.1900	346	346	346
#10-24	0.1900	0.0175	0.0151	432	216	431	1,240	348	475	0.1385	0.2524	0.1951	432	432	432
#12-24	0.2160	0.0242	0.0214	596	304	608	1,409	396	540	0.1679	0.3044	0.2274	596	596	596
1/4-20	0.2500	0.0318	0.0280	785	398	796	1,631	458	625	0.1911	0.3404	0.2497	785	785	785
5/16-18	0.3125	0.0524	0.0469	1,552	801	1,603	2,039	573	781	0.2507	> 3/8"	0.3276	1,552	1,303	1,552
3/8-16	0.3750	0.0775	0.0699	2,294	1,194	2,389	2,447	688	938	0.2742	> 3/8"	> 3/8"	2,294	1,572	2,144
7/16-14	0.4375	0.1063	0.0961	3,147	1,643	3,286	2,855	802	1,094	0.2945	> 3/8"	> 3/8"	3,147	1,873	2,554
1/2-13	0.5000	0.1419	0.1292	4,200	2,208	4,417	3,263	917	1,250	0.3183	> 3/8"	> 3/8"	4,200	2,140	2,918
9/16-12	0.5625	0.1819	0.1664	5,386	2,843	5,687	3,670	1,031	1,406	0.3511	> 3/8"	> 3/8"	5,386	2,444	3,333

SAE Grade 2 Steel (Spaced Threads)															
Nominal Fastener Diameter & Threads per Inch	D Nominal Thread Diameter (in)	K Basic Minor Diameter (in)	A(R) Thread Root Area (in ²)	Allowable Tension (lbs)	Allowable Shear		Allowable Bearing (lbs)			Minimum Material Thickness (lbs) to Equal Tensile Capacity of Fastener (in)			Maximum Tensile Load (lbs) for Available 3/8" Plate Thickness		
					Single (lbs)	Double (lbs)	1/8" Steel A36	1/8" Aluminum 6063-T5	1/8" Aluminum 6063-T6	A36	6063-T5	6063-T6	3/8" Steel A36	3/8" Aluminum 6063-T5	3/8" Aluminum 6063-T6
#6-20	0.1380	0.0990	0.0077	190	110	219	900	253	345	0.1191	0.1418	0.1191	190	190	190
#8-18	0.1640	0.1160	0.0106	261	151	301	1,070	301	410	0.1437	0.1611	0.1437	261	261	261
#10-16	0.1900	0.1350	0.0143	353	204	408	1,240	348	475	0.1401	0.1852	0.1516	353	353	353
#12-14	0.2160	0.1570	0.0194	478	276	551	1,409	396	540	0.1820	0.2166	0.1820	478	478	478
1/4-14	0.2500	0.1850	0.0269	663	383	766	1,631	458	625	0.1797	0.2418	0.1967	663	663	663
5/16-12	0.3125	0.2360	0.0437	1,295	748	1,495	2,039	573	781	0.2428	0.3026	0.2453	1,295	1,295	1,295
3/8-12	0.3750	0.2990	0.0702	2,078	1,200	2,400	2,447	688	938	0.2811	> 3/8"	0.2969	2,078	2,017	2,078

SAE Grade 2: (< 9/16")				
F _u (Min. Ultimate Tensile Strength)	74,000 psi	For All Diameters	Effective Area (UNC Threads)	Effective Area (Spaced Threads)
F _T (Allow. Tensile Stress, D ≤ 1/4")	24,667 psi	F _T = F _u / SF	A(R) = π (D-1.2269/N) ² / 4	A(R) = π k ² / 4
F _T (Allow. Tensile Stress, D > 1/4")	29,600 psi	Allowable Tension = F _T [A(S)]	A(S) = π (D-0.9743/N) ² / 4	A(S) = π k ² / 4
F _V (Allowable Shear Stress, D ≤ 1/4")	14,241 psi	F _V = F _u / (SF x sq rt (3))		
F _V (Allowable Shear Stress, D > 1/4")	17,090 psi	Allowable Single Shear = F _V [A(R)]		

NOTE 4:

- Values are taken from AISC, ASTM, IFI, SAE and AA documents. K values for spaced threads are taken as the minimum values in IFI Fastener Handbook, 8th Ed.
- Safety Factor used for fasteners with diameters 1/4" or less is 3.0, Safety Factor used for fasteners with diameters 5/16" or greater is 2.5.

3/16"Ø ULTRACON ALLOWABLE LOAD CAPACITIES:

	EDGE DISTANCE	SPACING		EMBEDMENT	TENSION (LB)	SHEAR (LB)
		INCHES	NUMBER OF DIAMETERS			
2,848 P.S.I. CONCRETE*	1"	1-1/8"	8d	1-3/4"	270	120
		2-1/4"	12d	1-3/4"	270	105
		3"	16d	1"	105	155
		3-9/16"	18d	1-3/8"	185	195
		1-1/8"	8d	1-3/4"	315	175
	2-1/2"	2-1/4"	12d	1-3/4"	315	175
		3"	16d	1"	110	165
		3-9/16"	18d	1-3/8"	185	195
		3-9/16"	18d	1-3/4"	315	195
		4-1/2"	24d	2-1/4"	220	105
GROUT FILLED BLOCK	2-1/2"	3-9/16"	18d	1-3/4"	175	135
HOLLOW BLOCK	1"	6"	32d	1-1/4"	80	105
	2-1/2"	1-1/8"	8d		85	75
		2-1/4"	12d		85	115
		6"	32d		85	115

NOTE:

*ULTRACON ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES.

1/4"Ø ULTRACON ALLOWABLE LOAD CAPACITIES:

	EDGE DISTANCE	SPACING		EMBEDMENT**	TENSION (LB)	SHEAR (LB)
		INCHES	NUMBER OF DIAMETERS			
2,848 P.S.I. CONCRETE*	1"	1-1/2"	8d	1-3/4"	345	120
		3"	12d	1-3/4"	345	170
		4"	16d	1"	150	155
		4-1/8"	18d	1-3/8"	290	225
		1-1/8"	8d	1-3/4"	460	225
	2-1/2"	3"	12d	1-3/4"	455	315
		4"	16d	1"	200	285
		4-1/2"	18d	1-3/8"	375	395
		4"	16d	1-3/4"	475	445
		4"	16d	1-3/4"	-	315
2,730 P.S.I. CONCRETE†	2-1/2"	4"	16d	1-3/4"	-	315
GROUT FILLED BLOCK	2-1/2"	4"	16d	1-3/4"	230	250
HOLLOW BLOCK	1"	6"	24d	1-1/4"	140	140
	2-1/2"	1-1/2"	8d		140	100
		3"	12d		140	150
		6"	24d		140	285

NOTE:

*ULTRACON ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 308.2.

† EMBEDMENT DEPTH INTO 2,848 PSI CONCRETE, WITH THE WOOD BUCK LOCATED BETWEEN THE CONCRETE AND THE SIDE MEMBER.

** EMBEDMENT VALUE LISTED HEREIN CONSIDERS FULL EMBEDMENT TO CONCRETE, GROUT FILLED BLOCK OR HOLLOW BLOCK. EMBEDMENT DEPTH DOES NOT INCLUDE THE THICKNESS OF ANY WOOD BUCKS.

5/16"Ø ULTRACON ALLOWABLE LOAD CAPACITIES:

	EDGE DISTANCE	SPACING		EMBEDMENT**	TENSION (LB)	SHEAR (LB)
		INCHES	NUMBER OF DIAMETERS			
3,515 P.S.I. CONCRETE†	1-1/4"	1-7/8"	8d	2"	205	120
		3-3/4"	12d	2"	290	120
		5"	16d	1"	180	215
	2-3/16"	5"	16d	1-3/4"	525	330
		1-7/8"	8d	1"	205	375
		3-3/4"	12d	1-3/4"	600	785
	3-1/8"	5"	16d	2"	300	120
		1-7/8"	8d	1"	455	710
		3-3/4"	12d	1-3/4"	210	450
		5"	16d	2"	860	850
GROUT FILLED BLOCK	2-1/2"	5"	16d	2-1/4"	835	850
HOLLOW BLOCK	1-9/16"	6"	20d	1-3/4"	230	370
		1-7/8"	8d	2-1/4"	290	375
	3-1/8"	3-3/4"	12d	1-1/4"	130	140
		6"	20d	1-1/4"	130	175

NOTE:

*ULTRACON ALLOWABLE LOAD CAPACITIES LISTED HEREIN ARE NOT VALID FOR CRACKED CONCRETE SUBSTRATES.

† EMBEDMENT DEPTH INTO 2,848 PSI CONCRETE, WITH THE WOOD BUCK LOCATED BETWEEN THE CONCRETE AND THE SIDE MEMBER.

** EMBEDMENT VALUE LISTED HEREIN CONSIDERS FULL EMBEDMENT TO CONCRETE, GROUT FILLED BLOCK OR HOLLOW BLOCK. EMBEDMENT DEPTH DOES NOT INCLUDE THE THICKNESS OF ANY WOOD BUCKS.

ULTRACON HEAD DIMENSIONS:

HEAD STYLE	HEAD DIAMETER
3/16" PFH	0.363"
3/16" PPH	0.365"
1/4" PFH	0.480"
1/4" TRIMFIT	0.414"
5/16" PFH	0.543"
5/16" LDFH	0.695"
5/16" TRIMFIT	0.414"

HEX WASHER HEAD (HWH) DIMENSIONS:

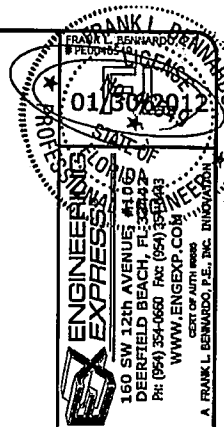
HEAD STYLE	ACROSS FLAT	WASHER DIAMETER
3/16" HWH	1/4"	0.355"
1/4" HWH	5/16"	0.625"
1/4" HWH	5/16"	0.415"
1/4" 300 SS CAP HWH	5/16"	0.580"
5/16" HWH	5/16"	0.543"
5/16" HWH	5/16"	0.585"

DRILL BIT SCHEDULE:

SCREW-ANCHOR DIAMETER	DRILL BIT
3/16"	3/8" DIAMETER ELCO ULTRACON BIT
1/4"	3/8" DIAMETER ELCO ULTRACON BIT
5/16"	3/4" DIAMETER ELCO ULTRACON BIT

1. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS MIAMI-DADE COUNTY, FLORIDA P.E.R.A. NOTICE OF ACCEPTANCE.
2. DRILL HOLES AT LEAST 1/2" DEEPER THAN ULTRACON EMBEDMENT.
3. CLEAN HOLES OR DEBRIS AND DUST BEFORE INSTALLATION OF ANCHOR.
4. ANCHORS SHALL NOT BE INSTALLED BEFORE THE CONCRETE HAS DEVELOPED ITS DESIGN STRENGTH.
5. ANCHORS SHALL NOT BE INSTALLED IN CRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 308.2.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0006-01
Expiration Date 01/08/2016
By *[Signature]*
Miami Dade Product Control



ELCO
ELCO CONSTRUCTION PRODUCTS, DIV. OF INFASTECH
1304 KEBR DRIVE
DEERFIELD BEACH, FL 33442
PH: (561) 354-0660 FAX: (561) 354-0663
WWW.ENGEXP.COM

ULTRACON CONCRETE ANCHORS
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	BY	DATE	BY
11-ECP-0001	03/07/12	CSL	03/07/12	CSL
	03/07/12	CSL	03/07/12	CSL
	03/07/12	CSL	03/07/12	CSL
	03/07/12	CSL	03/07/12	CSL

11-ECP-0001
SCALE: 1"=1'-0"
PAGE DESCRIPTION:

3



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE TEL. (305) 264-8100
MIAMI, FLORIDA 33174 FAX. (305) 262-6978

CLIENT:

KÖRUS USA, INC.

PROJECT:

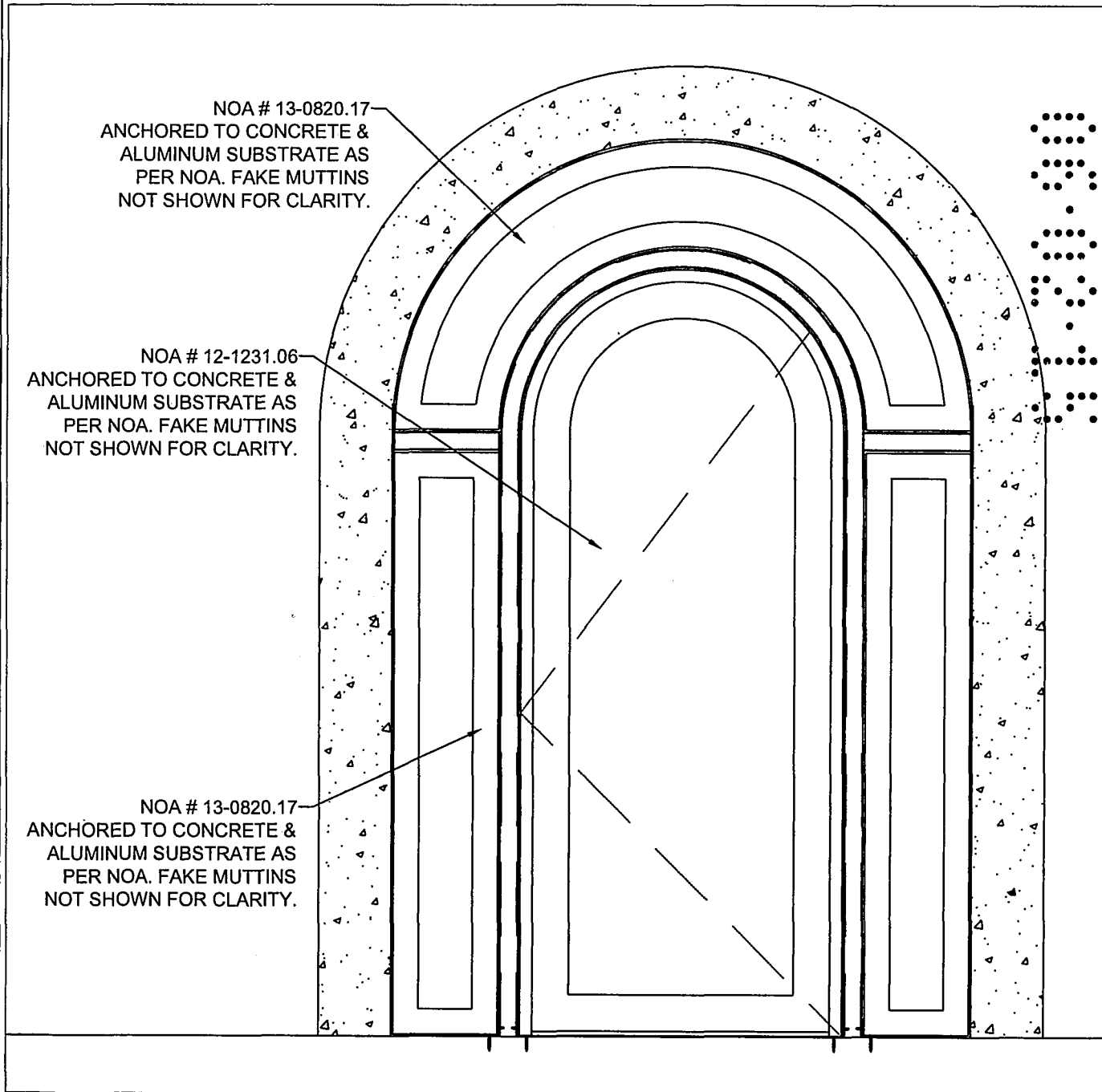
SNYDER

05-15-15 BY: C.M. AFC15-0636

NOA # 13-0820.17
ANCHORED TO CONCRETE &
ALUMINUM SUBSTRATE AS
PER NOA. FAKE MUTTINS
NOT SHOWN FOR CLARITY.

NOA # 12-1231.06
ANCHORED TO CONCRETE &
ALUMINUM SUBSTRATE AS
PER NOA. FAKE MUTTINS
NOT SHOWN FOR CLARITY.

NOA # 13-0820.17
ANCHORED TO CONCRETE &
ALUMINUM SUBSTRATE AS
PER NOA. FAKE MUTTINS
NOT SHOWN FOR CLARITY.



5 ELEVATION

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

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AV



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Korus USA, Inc.
8615 N. W. 64th Street Bay #1
Miami, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "KA" Aluminum Outswing French Door-LMI

APPROVAL DOCUMENT: Drawing No. W08-01-001, titled "Series KA Aluminum Outswing French Door", sheets 1 through 8 of 8, inclusive 2.1, dated 03/25/08 and last revised on JUL 15, 2013, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitations:

1. Single or double doors may be mulled with approved impacted clipped mullion (under separate approvals), lower design rating shall apply and such installation to be reviewed & approved by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Latina, Italy and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 09-0128.13 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



7/16/13

NOA No. 12-1231.06
Expiration Date: July 03, 2018
Approval Date: July 25, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W08-31 Rev E**, titled "Series KA Aluminum Outswing French Door", sheets 1 through 8 of 8, dated 03/25/08 and last revised on JUL 15, 2013, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

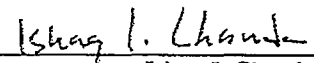
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of aluminum outswing door w/ 1-3/16" flange and without flange, prepared by Fenestration Testing Lab., Test Report No(s). **FTL-6531**, dated 11/12/12 and last revised on 07/02/13, signed and sealed by Jorge A. Naya, P.E.
Note: This test report has addendum letter dated July 02, 2013 and impacted sample D-1 photograph (sent via e-mail dated 07/12/13) issued by Fenestration Testing Lab.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of aluminum outswing door, prepared by Hurricane Testing Lab., Test Report No(s). **HTL- 0458-0606-07**, dated 04/25/08, signed and sealed by Vinu J. Abraham, P.E. (Submitted under file # **09-0128.13**).
3. Additional Referenced fixed Windows test report # **FTL-7101**, dated 04/01/13 per TAS 201, 202 & 203-94, issued by Fenestration Testing Lab., signed & sealed by Marlin D. Brinson, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 04/04/13, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02 & -04

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 12-1231.06
Expiration Date: July 03, 2018
Approval Date: July 25, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

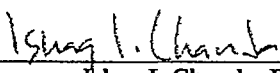
1. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass Interlayer", expiring on 01/14/17.
2. Notice of Acceptance No. 11-0624.01 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite PVB Interlayer", expiring on 12/11/16.
3. Notice of Acceptance No. 12-1231.08 issued to Eastman Chemical Company (MA), Inc. (Former Solutia Inc.) for their "Saflex CP: Saflex and saflex HP composite interlayer w/ PET core", expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/15/13, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test reports.
3. Distribution agreement dated 06/02/13 between manufacturer, Korus spa, Italy and Korus, USA (distributor), signed by Guiseppe AndiNacci and Gianfranco Ippoliti on behalf of respective companies.

G. OTHER

1. This NOA revises & renews NOA # 09-0128.13, expired on July 03, 2013.
2. Test proposal, dated 02/02/12 approved by RER and Test proposal # 04-0210, dated May 17, 2004, approved by BCCO.
3. Previous NOA(s) related to the files are # 08-0512.17



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 12-1231.06
Expiration Date: July 03, 2018
Approval Date: July 25, 2013

DOOR LEAF HEIGHT = INTERIOR OPNG. HEIGHT - 1.50"
 DOOR LEAF WIDTH (X DOORS) = INT. OPNG. WIDTH - 2.375"
 DOOR LEAF WIDTH (XX DOORS) = (INT. OPNG. WIDTH - 2.50")/2
 D.L.O. HEIGHT = INTERIOR OPNG. HEIGHT - 9.875"
 D.L.O. WIDTH (X DOORS) = INT. OPNG. WIDTH - 10.875"
 D.L.O. WIDTH (XX DOORS) = (INT. OPNG. WIDTH - 19.50")/2

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
 SHUTTERS ARE NOT REQUIRED.

SERIES KA **ALUMINUM OUTSWING FRENCH DOOR**

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS.
 ALSO COMBINATION OF DOOR/DOOR OR DOOR WITH MIAMI-DADE
 COUNTY APPROVED SIDELITES & TRANSOMS BY USING MIAMI-DADE
 COUNTY APPROVED LARGE MISSILE IMPACT RESISTANT CLIPPED
 MULLIONS IN BETWEEN.
 LOWER DESIGN PRESSURES FROM DOOR, SIDELITE, TRANSOM OR
 MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
 REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY
 HURRICANE ZONE (HVHZ).

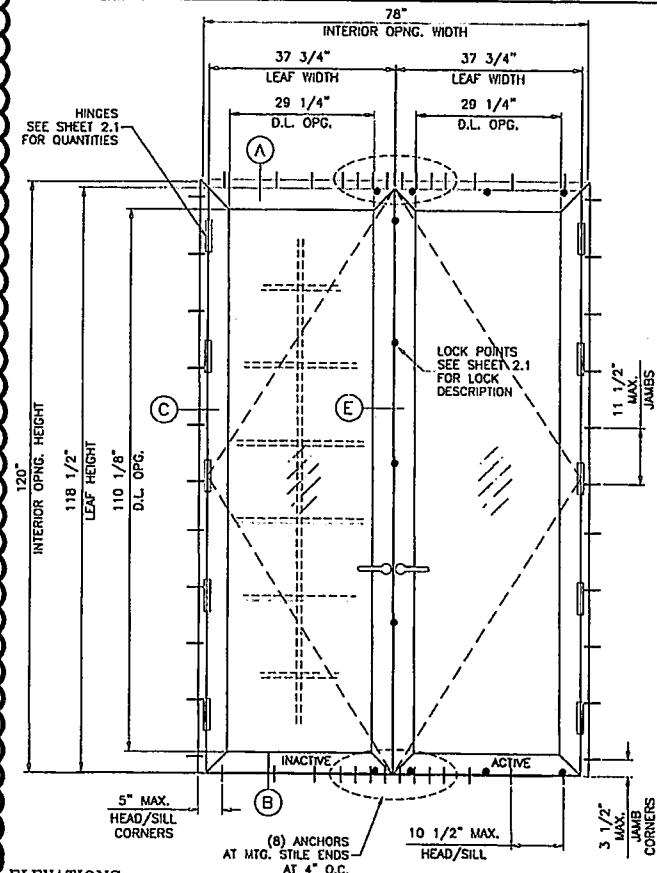
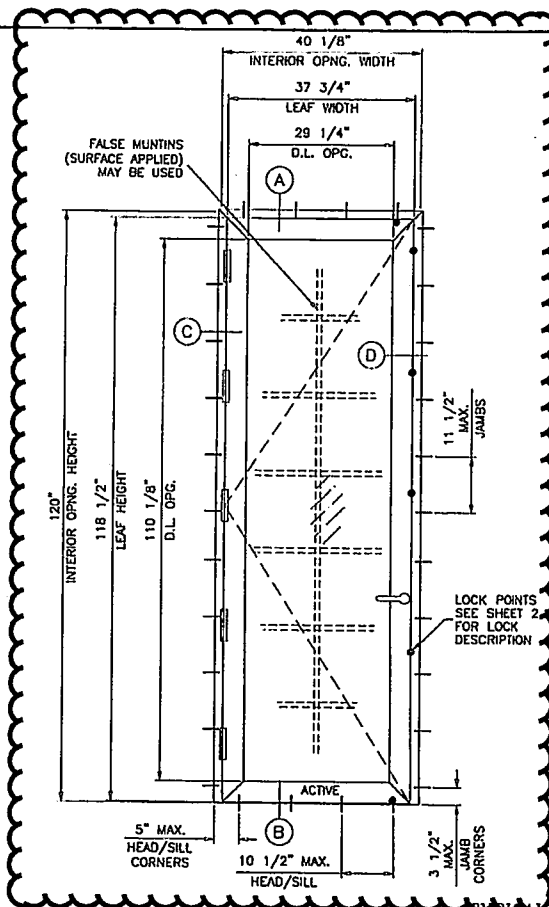
1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY
 TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
 EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE
 NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
 COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
 REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.



DOORS LOAD CAPACITY - PSF									
SINGLE DOORS (X)									
DOOR DIMS.			GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		
INT. OPNG. WIDTH	INT. OPNG. HEIGHT	LEAF WIDTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
36"	94-7/8"	33-1/2"	75.0	75.0	75.0	75.0	60.0	60.0	
40-1/8"	118"	37-3/4"	66.0	66.0	66.0	66.0	60.0	60.0	
40-1/8"	120"	37-3/4"	53.3	53.3	66.0	66.0	60.0	60.0	

DOORS LOAD CAPACITY - PSF									
DOUBLE DOORS (XX)									
DOOR DIMS.			GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		
INT. OPNG. WIDTH	INT. OPNG. HEIGHT	LEAF WIDTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
69-5/8"	94-7/8"	33-1/2"	75.0	75.0	75.0	75.0	60.0	60.0	
78"	98"	37-3/4"	66.0	66.0	66.0	66.0	60.0	60.0	
78"	120"	37-3/4"	53.3	53.3	66.0	66.0	60.0	60.0	

NOTE:
 GLASS CAPACITIES ON THIS SHEET ARE
 BASED ON ASTM E1300-04 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE. # 70592
 C.A.N. 3538

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-1231-06
 Issuance Date: July 23, 2013

301 15-2013

drawing no.
 W08-31

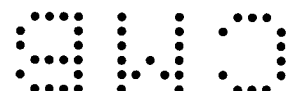
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-8978
 COMP-ANI, W08-31KUI

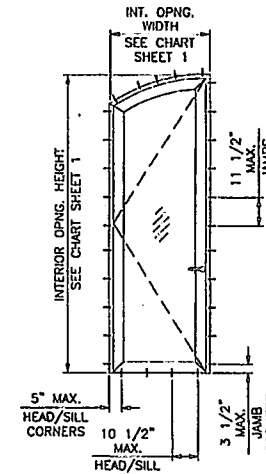
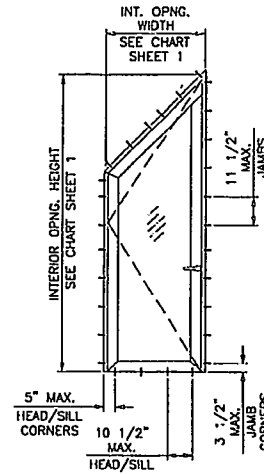
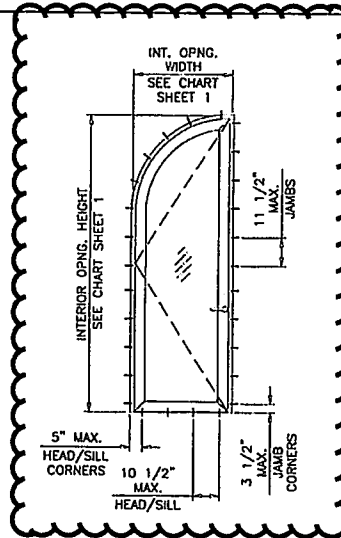
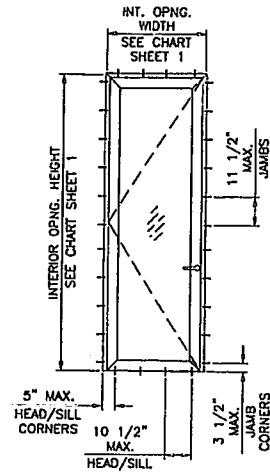
SERIES KA ALUMINUM OUTSWING FRENCH DOOR (LML)
KORUS USA, INC.
 8615 N.W. 64 STREET BAY #1
 MIAMI, FL 33166
 TEL (954) 874-7040 FAX (954) 874-7049

NO.	DATE	BY	DESCRIPTION
A	11/1/08	INTERIOR	WOOD COVERS ADDED
B	10/30/12	GENERAL	REVISION
C	03/04/13	NEW	SIZED ADDED
D	06/04/13	REV	PER PER COMMENTS
E	07/23/13	REV	PER PER COMMENTS

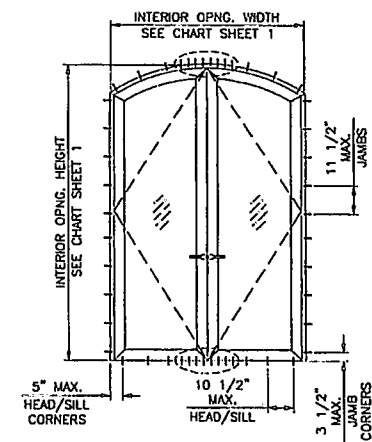
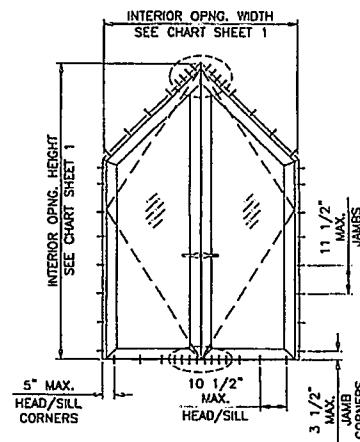
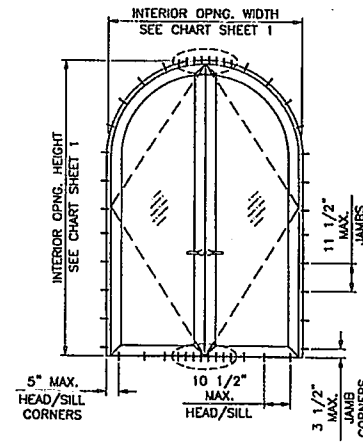
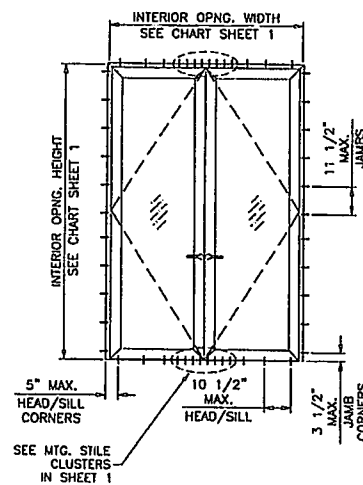
date: 03-25-08
 scale: 1/2"=1'-0"
 by: JAVAD AHMAD
 checked by:

drawing no.
 W08-31
 sheet 1 of 8





PRODUCT REVISED
to comply with the Florida
Building Code
Adopted No. 12-1231-06
Expiration Date 7/3/18
By *Shane L. Gault*
Independent Under Product Control



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING DOOR SHAPE WITHIN RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

APPROVED CONFIGURATIONS

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3536

JUL 15 2013

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANLY W08-31KU1

a f c

SPRCS KA ALUMINUM OUTSWING FRENCH DOOR (LWL)

KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL 33166
TEL (954) 874-7040 FAX (954) 874-7049

REV.	DATE	BY	DESCRIPTION
A	11/10/08		INTERIOR WOOD COVERS ADDED
B	10/30/12		CENDAL REVISION
C	03/04/13		NEW SIZED ADDED
D	06/04/13		REV. PER RER COMMENTS
E	07/12/13		REV. PER RER COMMENTS

Series: 03-25-08

Scale: 1/2" = 1"

Dr. by: HAND

CNL by:

drawing no.
W08-31

sheet 2 of 8

SEALANTS:

LEAF CORNERS SEALED WITH DOW CORNING 899 SEALANT.

HINGES:

(3) PER LEAF FOR INTERIOR OPNG. HEIGHTS UPTO 94-7/8"
AT 12" FROM TOP & BOTTOM AND 38" O.C. MAX.

(5) PER LEAF FOR INTERIOR OPNG HEIGHTS ABOVE 94-7/8"
AT 5" FROM TOP & BOTTOM AND 27" O.C. MAX.

EACH HASP FASTENED TO LEAF AND FRAME WITH (2) #1/4-20 X 5/8" OH MS

HINGE SPACING SHOWN ABOVE IS FOR RECTANGULAR SHAPED DOORS.
FOR ARCH TOP DOORS REDUCE HINGE SPACING AS REQD. TO MAINTAIN TOTAL QUANTITY.

ANTI-BLOW OUT CLIPS:

28" LONG SLIDE IN METALLIC BLOW-OUT CLIPS AT EACH FRAME JAMB
AND HINGE STILE AT 18" FROM TOP AND BOTTOM AND 30" O.C. MAX.
BLOW OUT CLIPS NOT REQUIRED FOR DOOR OPNG HEIGHTS UPTO 96 INCHES.

LOCKS:

ACTIVE LEAF:

MULTI POINT LOCK SYSTEM BY 'SIEGENIA' AT 41"
FROM BOTTOM
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS
ENGAGING AT HEAD, SILL AND LOCK STILES
KEY OPERATED ON EXTERIOR AND THUMB TURN ON
INTERIOR

FASTENED TO ACTIVE LEAF LOCK STILE WITH

(3) #12-28 X 3-1/8" FH MS

(12) #8 X 1-3/4" FH SMS

(2) #8 X 3/4" FH SDS

INACTIVE LEAF:

TWO POINT LOCK SYSTEM BY 'SIEGENIA' AT 41"
FROM BOTTOM

HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL

FASTENED TO INACTIVE LEAF LOCK STILE WITH

(3) #12-28 X 3-1/8" FH MS

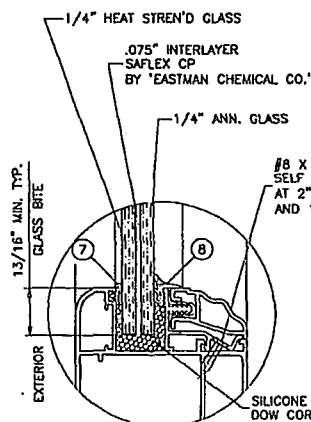
(15) #10 X 1-3/4" FH SMS

(4) #8 X 7/8" FH SDS

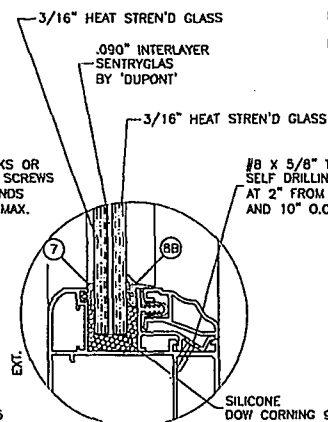
KEEPERS:

SURFACE MOUNT KEEPERS FACING LOCK POINTS
EACH KEEPER FASTENED TO FRAME AND STILE WITH

(3) #8 X 5/8" OH SDS

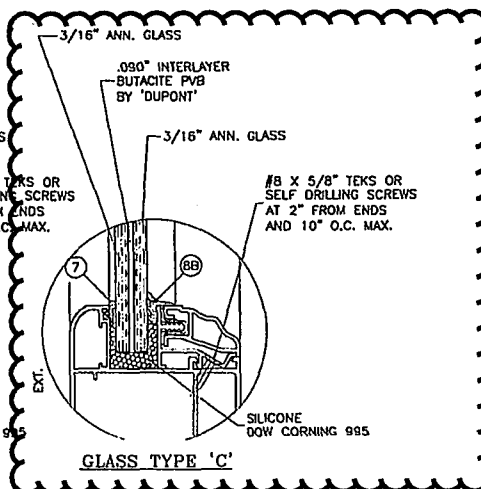


GLASS TYPE 'A'



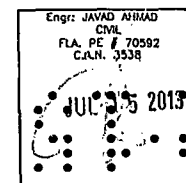
GLASS TYPE 'B'

GLAZING OPTIONS

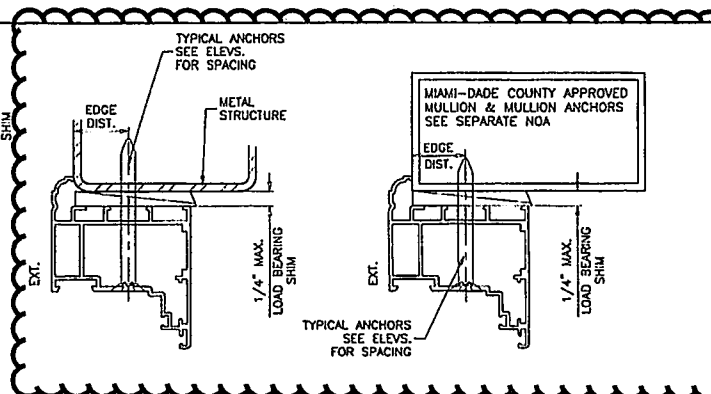
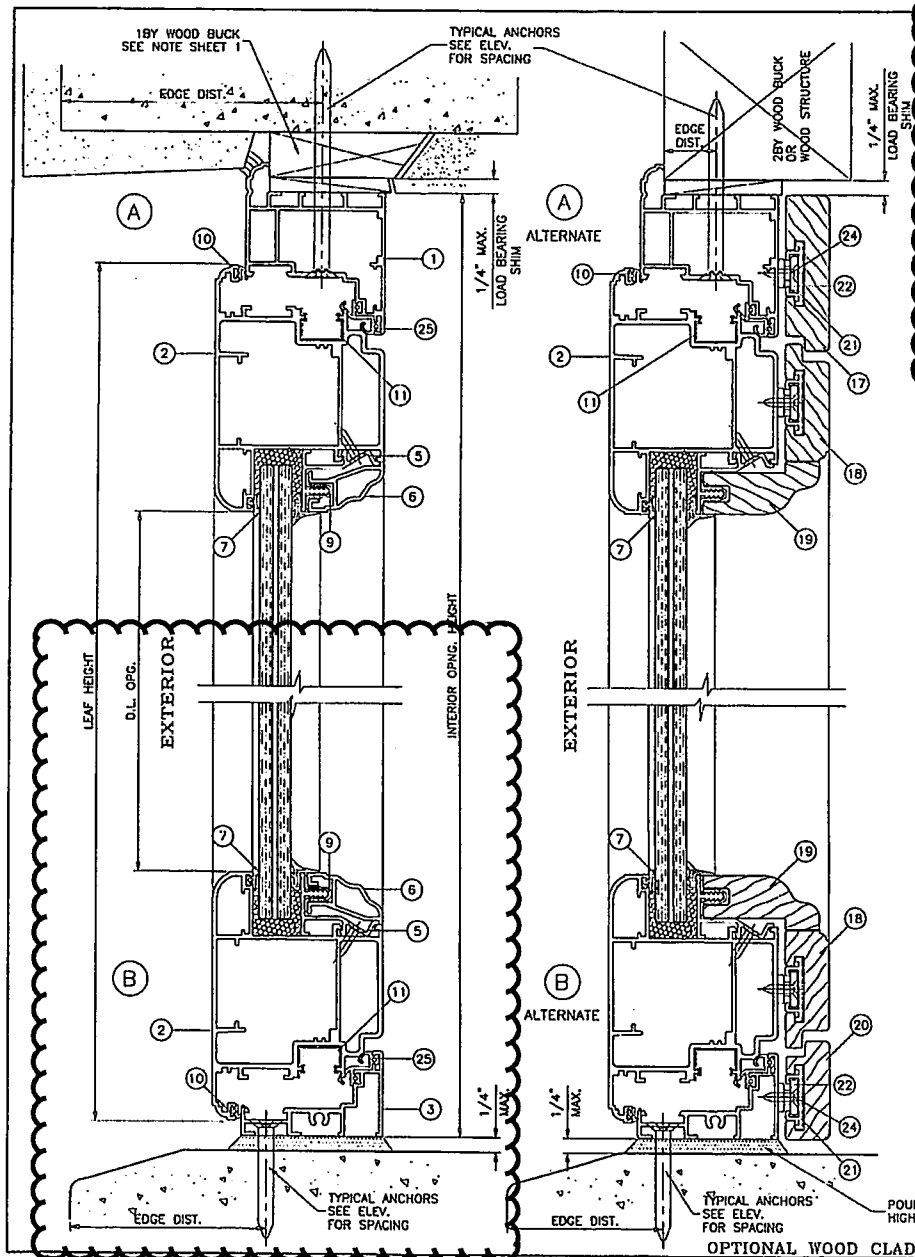


GLASS TYPE 'C'

PRODUCT REVISSED
as complying with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date 7/12/12
By: [Signature]
Release Date: Product Change



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8100 FAX (305) 262-6978 COMP-ANL\W08-31KU	
SERIES KA ALUMINUM OUTSLING FRENCH DOOR (L.M.I.)	
KORUS USA, INC. 8615, N.W. 64 STREET BAY #1 MIAMI, FL 33166 TEL (954) 874-7040 FAX (954) 874-7049	
REVISIONS:	BY DESCRIPTION
A 11/10/08	INTERIOR WOOD CORNERS ADDED
B 11/13/12	GENERAL REVISION
C 03/04/13	NEW SIZED ADDED
D 06/24/13	REV. PER RET COMMENTS
E 07/12/13	REV. PER RET COMMENTS
DATE: 03-25-08	SCALE: 1/2" = 1"
DR. BY: HAMID	CHECK BY:
drawing no. W08-31	
sheet 2 of 8	



18Y OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY KORUS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 18Y BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:

PANEL CORNERS SEALED WITH DOW CORNING 899 SEALANT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date 7/31/18
By *[Signature]*
Project Field Product Control

**INSTALLATION DETAILS
FRAMES WITH 1/2" FLANGE**

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3338

JUL 4 2013



AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W08-31KU

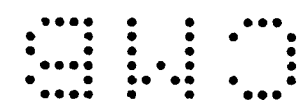
KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL 33166
TEL (954) 874-7040 FAX (954) 874-7049

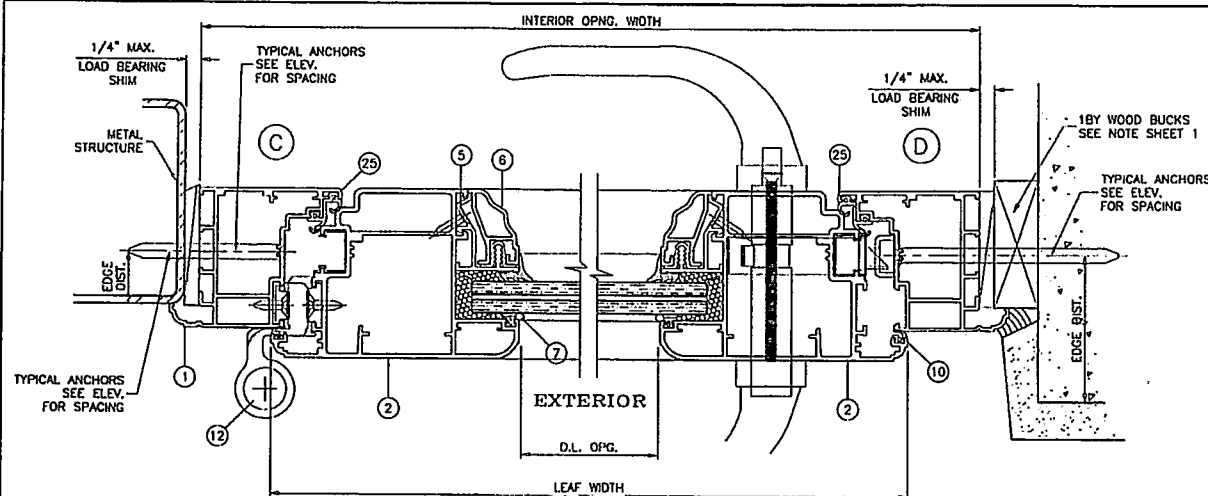
NO.	DATE	BY	DESCRIPTION
A	11-10-08	INTERIOR WOOD COVERS ADDED	
B	10-30-12	CENTRAL REVISION	
C	03-04-13	NO CHANGE THIS SHEET	
D	06-04-13	REV. PER RET COMMENTS	
E	07-12-13	NO CHANGE THIS SHEET	

date: 03-25-08
scale: 1/2" = 1"
dr. by: HAND
chk. by:

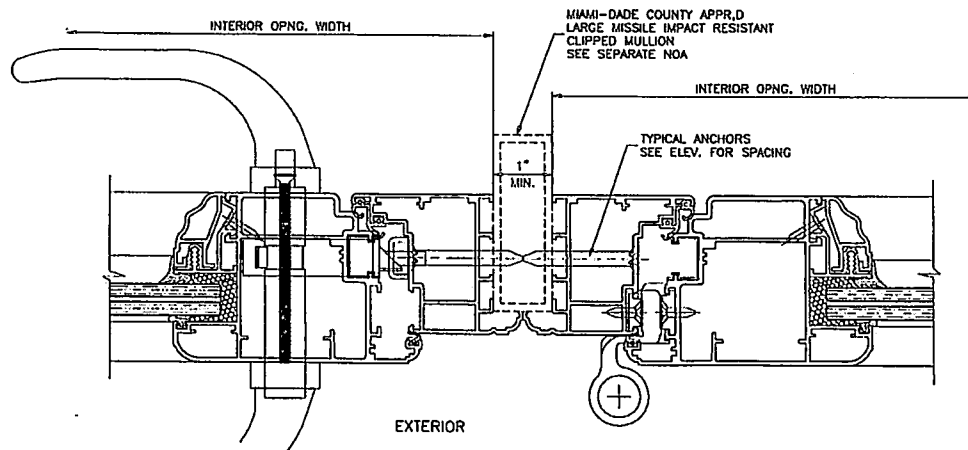
drawing no.
W08-31

sheet 3 of 8

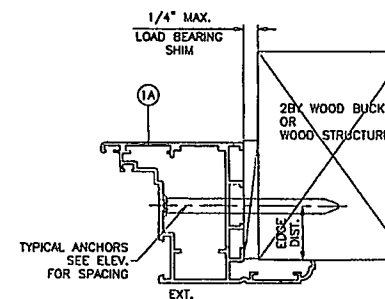
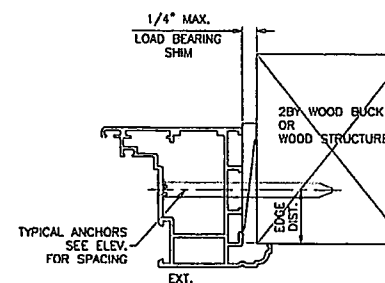




SINGLE (X)



INSTALLATION DETAILS
FRAMES WITH 1/2" FLANGE



FRAME WITH 1 3/16" FLANGE
OPTIONAL

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 12-1231-06
Expiration Date 7/13/15
By: *Isaac L. Chait*
Miami Dade Product Control

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

2043

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W08-31KUI

SERIES KA ALUMINUM OUTSWING FRENCH DOOR (L.M.I.)

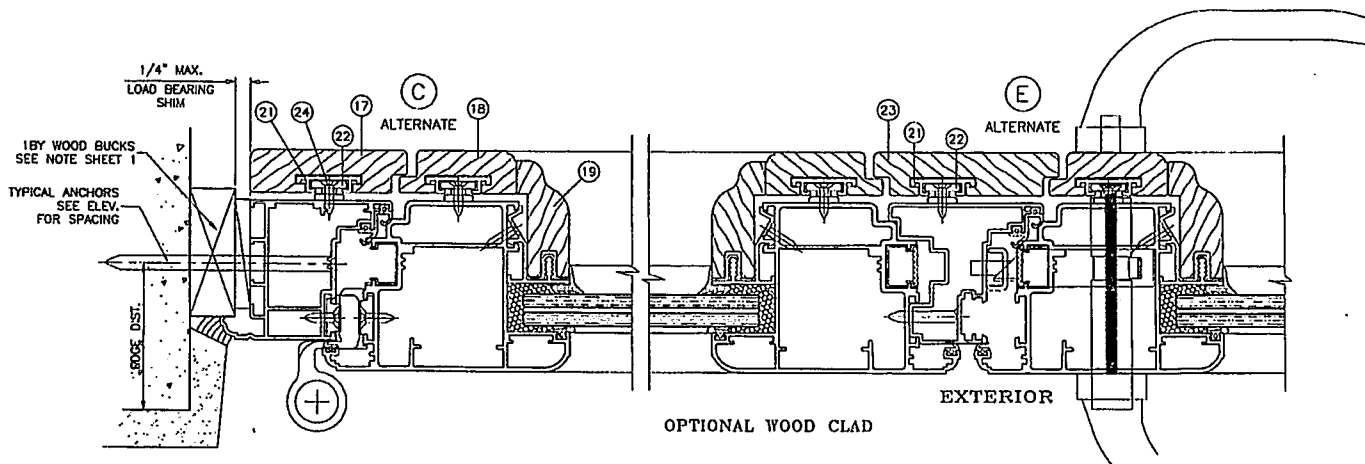
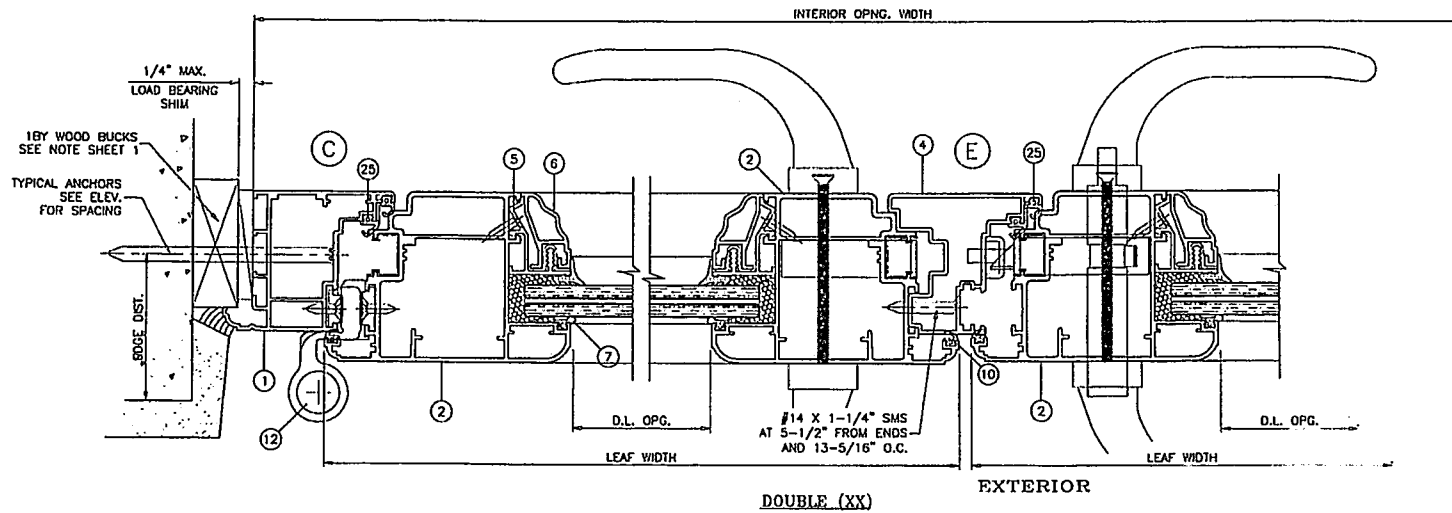
KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL. 33166
TEL. (954) 874-7040 FAX. (954) 874-7049

REV. NO. 03-25-08
SCALE: 1/2" = 1"
DR. BY: HAMID
CHK. BY:

NO.	DATE	BY	DESCRIPTION
1	11.10.08	A	INTERIOR WOOD COVERS ADDED
2	10.30.12	B	GENERAL REVISION
3	03.04.13	C	NO CHANGE THIS SHEET
4	06.04.13	D	REV. PER RER COMMENTS
5	07.12.13	E	REV. PER RER COMMENTS

drawing no.
W08-31
sheet 4 of 8

2043



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date 7/3/13
By *Klaus L. Hand*
Alfred Dade Product Control

INSTALLATION DETAILS
FRAMES WITH 1/2" FLANGE

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUL 1 4 2013

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W08-31(KU)

SERIES 9A ALUMINUM OUTSWING FRENCH DOOR (LUL)
KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL. 33166
TEL. (954) 874-7040 FAX. (954) 874-7049

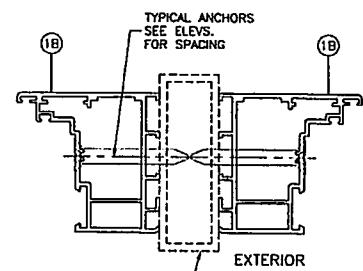
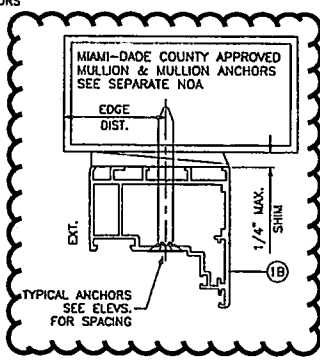
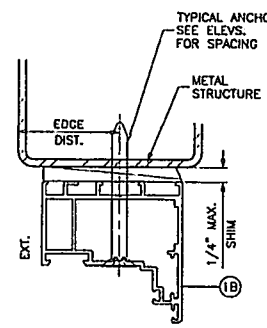
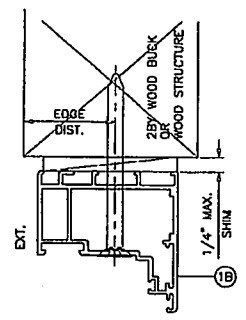
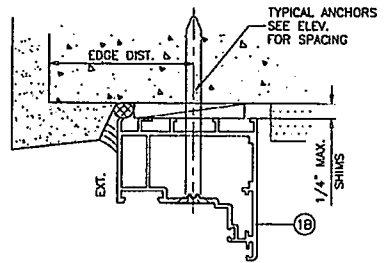
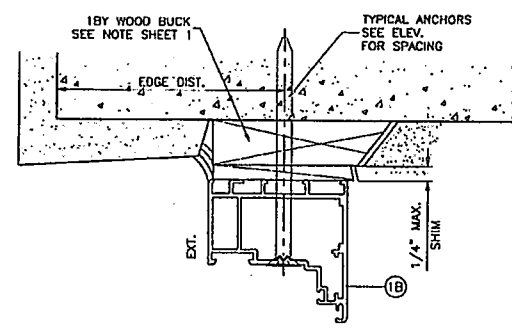
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B	10/30/12		GENERAL REVISION
C	03/24/13		NO CHANGE THIS SHEET
D	06/24/13		REV. PER REE COMMENTS
E	07/12/13		REV. PER REE COMMENTS

date: 03-25-08
scale: 1/2" = 1"
dr. by: HMD
chk. by:

drawing no.
W08-31

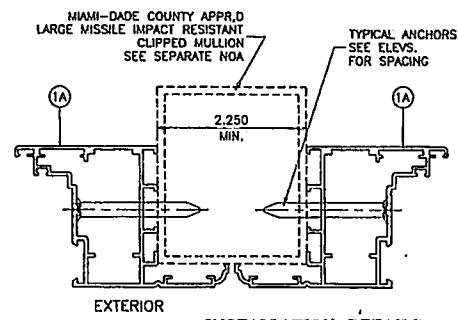
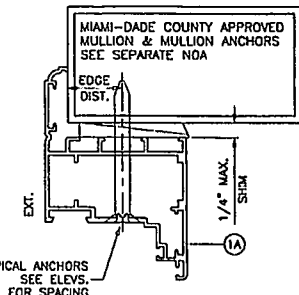
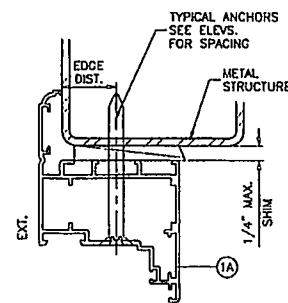
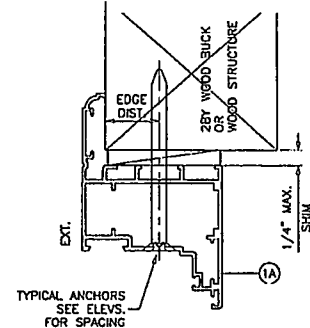
sheet 5 of 8

940



MIAMI-DADE COUNTY APPR.D
LARGE MISSILE IMPACT RESISTANT
CLIPPED MULLION
SEE SEPARATE NOA

**INSTALLATION DETAILS
FRAMES WITHOUT FLANGE**



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date 7/5/18
By: *Sheng L. Chen*
Miami Dade Product Control

**INSTALLATION DETAILS
FRAMES WITH 1-3/16\"/>**

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUL 15 2013

a f c

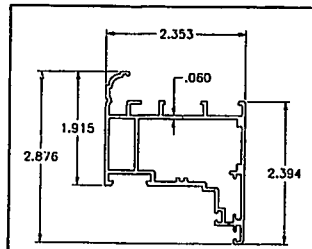
AL-FAROQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 COMP-ANL W08-31K01

SERIES KA ALUMINUM OUTSWING FRENCH DOOR (LKL)
KORUS USA, INC.
 8615 N.W. 64 STREET BAY #1
 MIAMI, FL 33166
 TEL (954) 874-7040 FAX (954) 874-7049

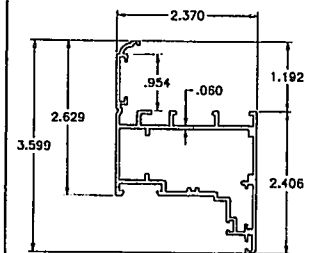
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C	03.04.13		NO CHANGE THIS SHEET
D	03.04.13		REV. PER PER COMMENTS
E	07.12.13		REV. PER PER COMMENTS

Date: 03-25-08
 Scale: 1/2" = 1"
 Dr. by: HMMJ
 Chk. by:

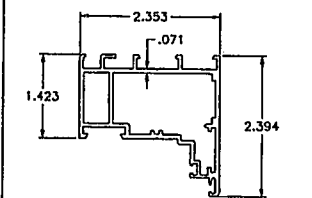
drawing no.
W08-31
 sheet 6 of 8



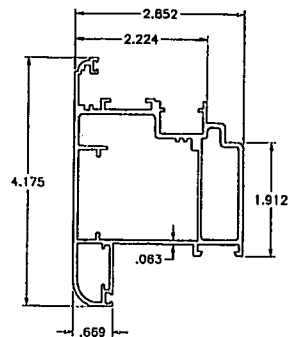
① DOOR FRAME (1/2" FLANGE)



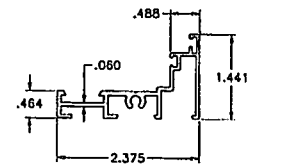
1A DOOR FRAME (1-3/16" FLANGE)



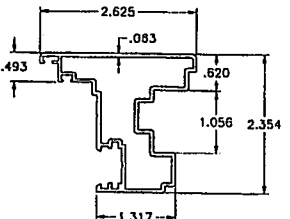
1B DOOR FRAME (WITHOUT FLANGE)



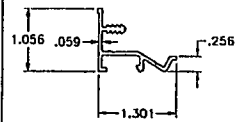
② LEAF FRAME



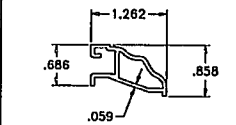
③ THRESHOLD



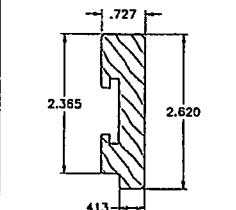
④ ASTRAGAL



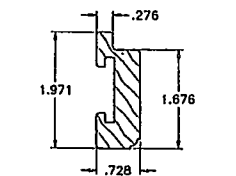
⑤ GLASS STOP



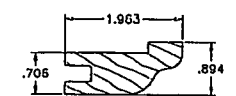
⑥ GLASS STOP COVER



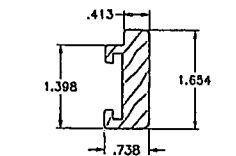
⑦ INTERIOR FRAME COVER



⑧ INTERIOR LEAF COVER

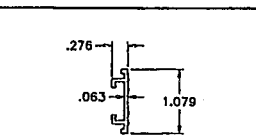


⑨ INTERIOR GLASS STOP COVER

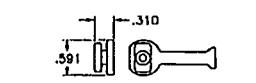


⑩ INTERIOR SILL COVER

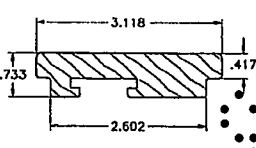
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	KA025	4/ DOOR	DOOR FRAME (1/2" FLANGE)	6060-T5	KORUS
1A	KA016	4/ DOOR	DOOR FRAME (1-3/16" FLANGE)	6060-T5	KORUS
1B	KA012	4/ DOOR	DOOR FRAME (WITHOUT FLANGE)	6060-T5	KORUS
2	KA015	4/ LEAF	LEAF FRAME	6060-T5	KORUS
3	KA008	1	THRESHOLD	6060-T5	KORUS
4	KA003	1	ASTRAGAL	6060-T5	KORUS
5	KA006	4/ LEAF	GLASS STOP	6060-T5	KORUS
6	KA007	AS REQD.	GLASS STOP COVER	6060-T5	KORUS
7	COP8069	4/ LEAF	EXTERIOR GLAZING GASKET	EPDM	COMPLASTEX
8	COP0UP4W	4/ LEAF	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
8A	COP0UP5W	4/ LEAF	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
8B	COP0UP6W	4/ LEAF	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
9	COP2217	AS REQD.	GLASS STOP HOOK GASKET	EPDM	COMPLASTEX
10	COP02686	AS REQD.	EXTERIOR FRAME GASKET	EPDM	COMPLASTEX
11	ALF7340	AS REQD.	INTERNAL GASKET	EPDM	ALFASOLARE
12	FAP5603A	3/ LEAF	HINGE	CAST ALUM	FAPIM
13	MON5007	AS REQD.	LEAF JOINING BRACKET	CAST ALUM	MONICELLI
14	MON5002	AS REQD.	FRAME JOINING BRACKET	CAST ALUM	MONICELLI
15	SIG898068	AS REQD.	CORNER JOINT	STEEL	SIEGENIA
16	PONK20	AS REQD.	ALIGNING BRACKET	PA6	PONTINA STAMPI
17	-	AS REQD.	INTERIOR FRAME COVER	-	-
18	-	AS REQD.	INTERIOR LEAF COVER	-	-
19	-	AS REQD.	INTERIOR GLASS STOP COVER	-	-
20	-	AS REQD.	INTERIOR SILL COVER	-	-
21	C71808	AS REQD.	COVER RECEIVER CHANNEL (CONT.)	6060-T5	KORUS
22	PS002	AS REQD.	COVER LATCH AT 12" O.C.	CAST ALUM	MONICELLI
23	-	AS REQD.	INTERIOR ASTRAGAL COVER	-	-
24	#6 x 3/4"	1/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
25	COP020250	AS REQD.	FRAME W/STRIPPING GASKET	EPDM	COMPLASTEX
26	-	1	MULTI POINT LOCK, SEE SHEET 2.1	-	SIEGENIA



⑪ COVER RECEIVER CHANNEL



⑫ COVER LATCH



⑬ INTERIOR ASTRAGAL COVER

PRODUCT REVISED
as templating with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date 7/21/18
By *[Signature]*
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUL 15 2013

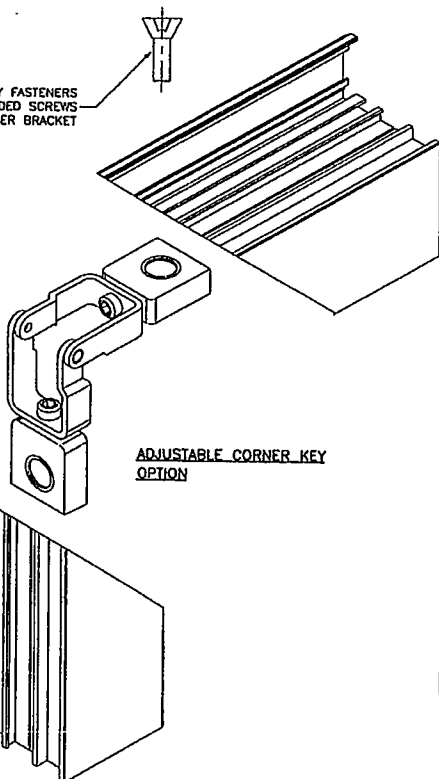
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
4235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-9100 FAX (305) 262-6878
COMP-ANL\WOB-31KU

SERIES KA ALUMINUM OUTSWING FRENCH DOOR (L.M.)
KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL 33166
TEL (954) 874-7040 FAX (954) 874-7049

NO.	DATE	BY	DESCRIPTION
1	11.10.08	INTERIOR WOOD COVERS ADDED	
2	12.30.12	GENERAL REVISION	
3	03.04.13	NO CHANGE THIS SHEET	
4	06.04.13	REV. PER RER COMMENTS	
5	07.12.13	REV. PER RER COMMENTS	

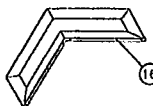
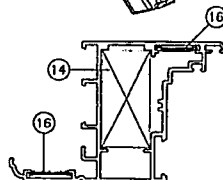
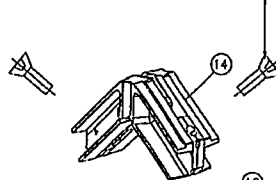
date 03-25-08
scale: 1/2" = 1"
dr. by: HAUD
chk. by:
drawing no.
W08-31
sheet 7 of 8

ASSEMBLY FASTENERS
#8 X 3/4" THREADED SCREWS
2 PER BRACKET

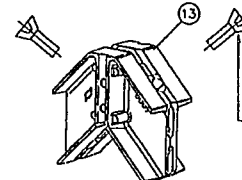


ADJUSTABLE CORNER KEY
OPTION

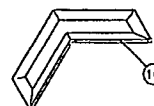
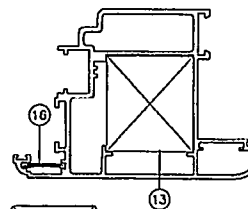
ASSEMBLY FASTENERS
#8 X 3/4" THREADED SCREWS
2 PER BRACKET



FRAME CORNER



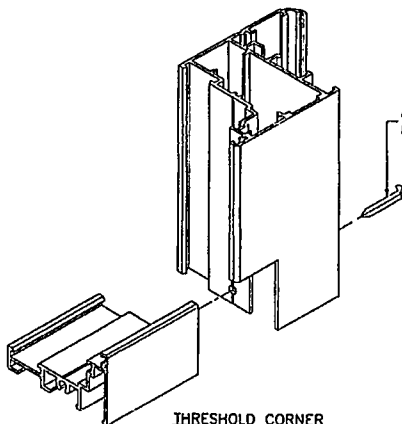
ASSEMBLY FASTENERS
#8 X 3/4" THREADED SCREWS
2 PER BRACKET



LEAF CORNER

MITER CUT FRAME AND LEAF CORNERS

ASSEMBLY FASTENER
#10 X 2" SMS



THRESHOLD CORNER

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 12-1231-06
Expiration Date July 15, 2018
By: Ismael J. Llanusa
Miami Dade Product Control

Engr: JAVAD AHZAD
CML
FLA. P.E. # 70592
C.A.N. 3538

97.30.00
15.2013

040

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-AN\W08-31(KJ)

SERIES KA ALUMINUM OUTSWING FRENCH DOOR (L.M.)
KORUS USA, INC.
8615 N.W. 64 STREET BAY #1
MIAMI, FL 33166
TEL (954) 874-7040 FAX (954) 874-7049

NO	DATE	BY	DESCRIPTION
A	11.10.06		INTERIOR WOOD COVERS ADDED
B	10.30.12		GENERAL REVISION
C	03.24.13		NO CHANGE THIS SHEET
D	06.24.13		REV. FOR PER COMMENTS
E	07.12.13		NO CHANGE THIS SHEET

date: 03-28-08
scale: 1/2" = 1"
dr. by: HAUD
chk. by:

drawing no.
W08-31

sheet 8 of 8



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Korus USA, Inc.
8615 NW 64th Street, Bay No. 01
Miami, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION:

Series "Firenze - Venezia - Roma" Wood Clad (Interior) Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W97-69, titled "Firenze Venezia Roma Alumin. Fixed Wdw. (L.M.I.)", sheets 01 through 06 of 06, dated 09/13/07, with revision "E" dated 10/01/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Latina, Italy, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0224.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.

MIAMI-DADE COUNTY
APPROVED

J. Gascon
1/22/14

NOA No. 13-0820.17
Expiration Date: January 10, 2017
Approval Date: January 30, 2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. W07-69, titled "Firenze - Venezia - Roma Alum. Fixed Wdw. (L.M.I.)", sheets 01 through 06 of 06, dated 09/13/07, with revision "T" dated 10/01/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Almad, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7101, dated 04/01/13, signed and sealed by Marlin D. Brinson, P. E.
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, specimen no. 9, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0458-0605-07, dated 06/04/08, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0128.12)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed windows rectangular, round top and eyebrow top, specimens no.'s 5, 8, 10, 11 & 12, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s HTL-0458-0108-07 and HTL-0458-0605-07, dated 3/8/07 to 6/19/07, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0128.12)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0820.17
Expiration Date: January 10, 2017
Approval Date: January 30, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 05/22/13, prepared by Al-Farooq Corporation, dated 01/14/14, signed and sealed by Javad Ahmad, P. E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

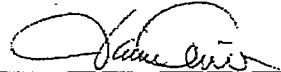
1. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
3. Notice of Acceptance No. 12-1231.08 issued to Eastman Chemical Company (MA) for their "Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 03/28/13, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and complying with FBC-2010, issued by Al-Farooq Corporation, dated 05/22/13, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No. FTL-7101, dated 04/01/13, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Marlin D. Brinson, P. E.
3. Proposal No. 12-3694 issued by Product Control, dated 02/02/12, signed by Jaime D. Gascon, P. E.
4. Distributor Agreement between manufacturer: Korus, Spa, Italy and distributor: Korus, USA, Inc., signed by Guiseppe Andinacci and Gianfranco Ippoliti on behalf of respective companies.
(Submitted under previous NOA No. 12-0224.03)
5. Laboratory compliance letter for Test Reports No.'s HTL-0458-0605-07, dated 06/04/08, HTL-0458-0108-07, dated 03/08/07 and HTL-0458-0605-07, dated 06/19/07, issued by Hurricane Test Laboratory, LLC, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0128.12)

G. OTHERS

1. Notice of Acceptance No. 12-0224.03, issued to Korus USA, Inc. for their Series "Firenze - Venezia - Roma Aluminum Fixed Window - L.M.I.", approved on 05/03/12 and expiring on 01/10/17.



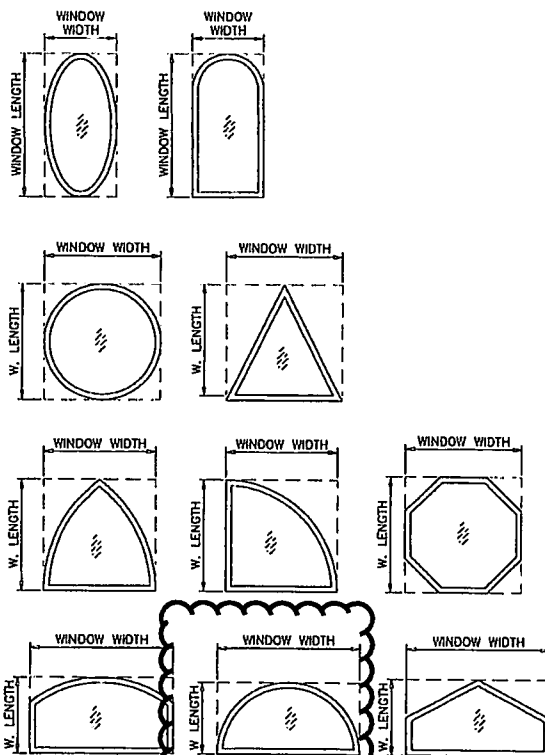
Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 13-0820.17

Expiration Date: January 10, 2017

Approval Date: January 30, 2014



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

SERIES FIRENZE-VENEZIA-ROMA
ALUMINUM FIXED WINDOW
WITH OPTIONAL WOOD CLAD INTERIOR

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

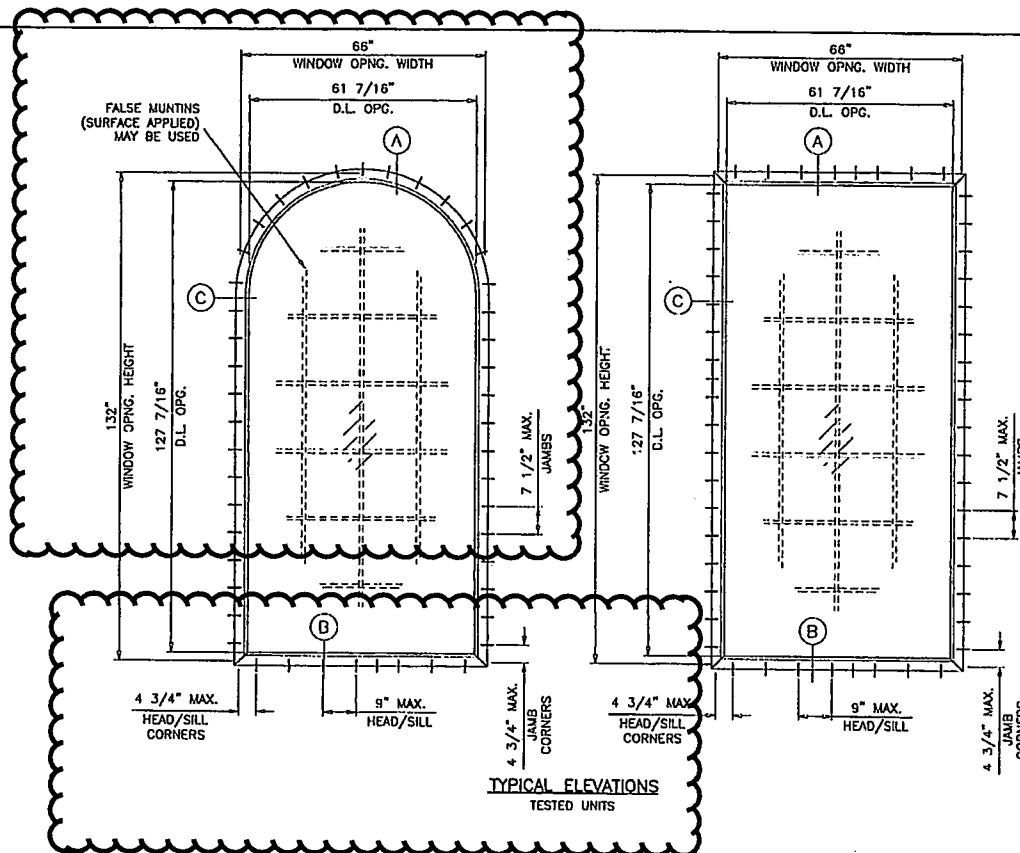
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

CMU = NORMAL WEIGHT - HOLLOW LOAD BEARING CONCRETE MASONRY UNITS WITH COMPRESSIVE STRENGTH OF MIN. 1900 PSI.



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0820.17
 Expiration Date 01/18/2017
 Miami Dade Product Control

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
 CIVIL
 FLA. P.E. # 70592
 C.A.N. 3538

AL-FAROQQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-6100 FAX (305) 262-6978
 COMP-ANL\W07-69KU

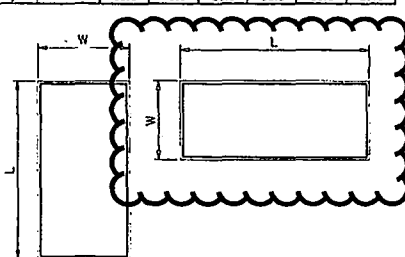
KORUS USA INC.
 FIRENZE-VENEZIA-ROMA ALUM FIXED WDW. (L.M.I.)
 8615 N.W. 64th STREET, BAY #1
 MIAMI, FL 33166
 TEL (954) 874-7040 FAX (954) 874-7049

REV	DATE	BY	DESCRIPTION
A	11.10.08		UPDATED FOR 2007 FBC
B	05.19.09		REV. PER BCC COMMENTS
C	02.15.12		UPDATED TO 2010 FBC
D	05.20.13		GENERAL REDVISION
E	10.01.13		REV. PER PER COMMENTS

date: 09-13-07
 scale: 3/8"=1'-0"
 dr. by: JAVAD
 ink. by:
 drawing no.
W07-69
 sheet 1 of 6

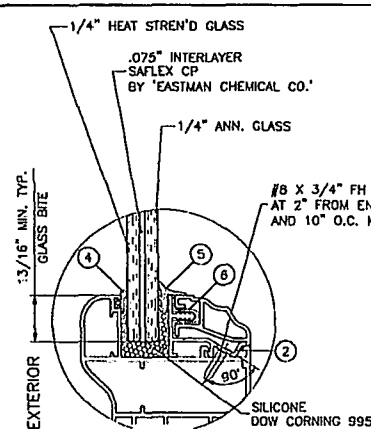
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WDTH. OPNG. DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C' & 'D'			
WIDTH	LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
30"	60"	75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-5/8"		75.0	75.0	60.0	60.0	80.0	80.0		
48"		71.3	71.3	60.0	60.0	80.0	80.0		
54"	72"	63.4	63.4	53.3	53.3	80.0	80.0		
60"		57.0	57.0	48.0	48.0	80.0	80.0		
66"		57.0	57.0	48.0	48.0	80.0	80.0		
30"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"	84"	75.0	75.0	60.0	60.0	80.0	80.0		
45-5/8"		75.0	75.0	60.0	60.0	80.0	80.0		
48"		71.3	71.3	60.0	60.0	80.0	80.0		
54"		63.4	63.4	53.3	53.3	80.0	80.0		
60"		57.0	57.0	48.0	48.0	80.0	80.0		
66"	96"	57.0	57.0	48.0	48.0	80.0	80.0		
30"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-5/8"		75.0	75.0	60.0	60.0	80.0	80.0		
48"	108"	75.0	75.0	60.0	60.0	80.0	80.0		
54"		63.4	63.4	53.3	53.3	80.0	80.0		
60"		57.0	57.0	48.0	48.0	80.0	80.0		
66"		57.0	57.0	48.0	48.0	80.0	80.0		
30"		75.0	75.0	60.0	60.0	80.0	80.0		
36"	120"	75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-5/8"		75.0	75.0	60.0	60.0	80.0	80.0		
48"		71.3	71.3	60.0	60.0	80.0	80.0		
54"		63.4	63.4	53.3	53.3	80.0	80.0		
60"	132"	57.0	57.0	48.0	48.0	80.0	80.0		
66"		57.0	57.0	48.0	48.0	80.0	80.0		
30"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-5/8"		75.0	75.0	60.0	60.0	80.0	80.0		
48"		71.3	71.3	60.0	60.0	80.0	80.0		
54"		63.4	63.4	53.3	53.3	80.0	80.0		
60"		57.0	57.0	48.0	48.0	80.0	80.0		
66"		57.0	57.0	48.0	48.0	80.0	80.0		

DESIGN LOAD CAPACITY - PSP									
WDTH. OPNG. DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C' & 'D'			
WIDTH	LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
25-1/2"	25"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		
52-1/2"	37-3/8"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		
52-1/2"	49-5/8"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		
52-1/2"	55"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		
52-1/2"	62"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		
52-1/2"	75"	75.0	75.0	60.0	60.0	80.0	80.0		
31"		75.0	75.0	60.0	60.0	80.0	80.0		
36"		75.0	75.0	60.0	60.0	80.0	80.0		
42"		75.0	75.0	60.0	60.0	80.0	80.0		
45-1/8"		75.0	75.0	60.0	60.0	80.0	80.0		

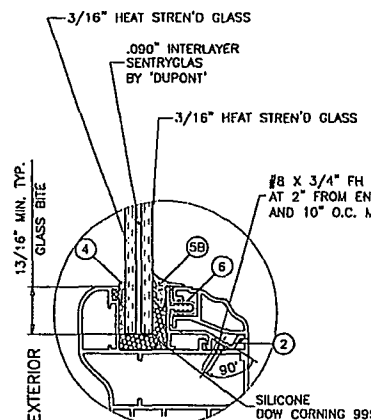


NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

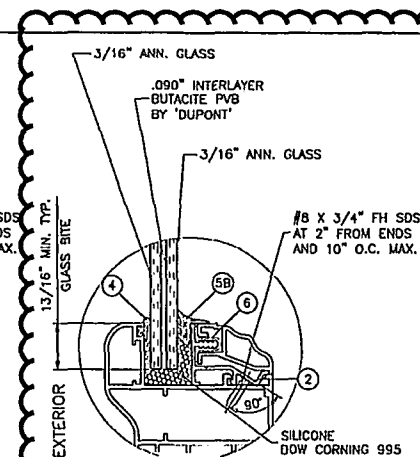
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



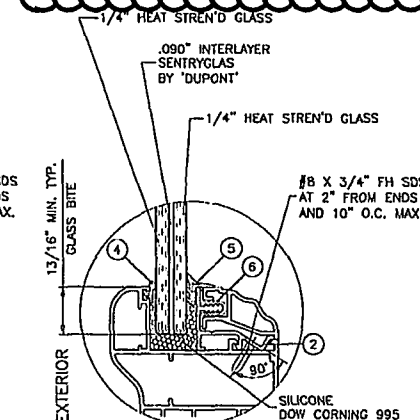
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9/16\"/>



GLASS TYPE 'C'
7/16\"/>



GLASS TYPE 'B'
7/16\"/>



GLASS TYPE 'D'
9/16\"/>

GLAZING OPTIONS

PRODUCED BY
as complying with the Florida
Building Code
Acceptance No. 13-0822-17
Expiration Date 02/20/2019
By: [Signature]
Miami Dade Product Control

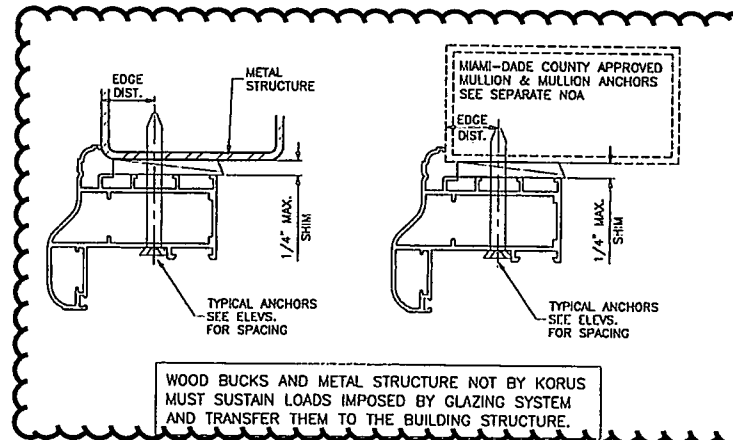
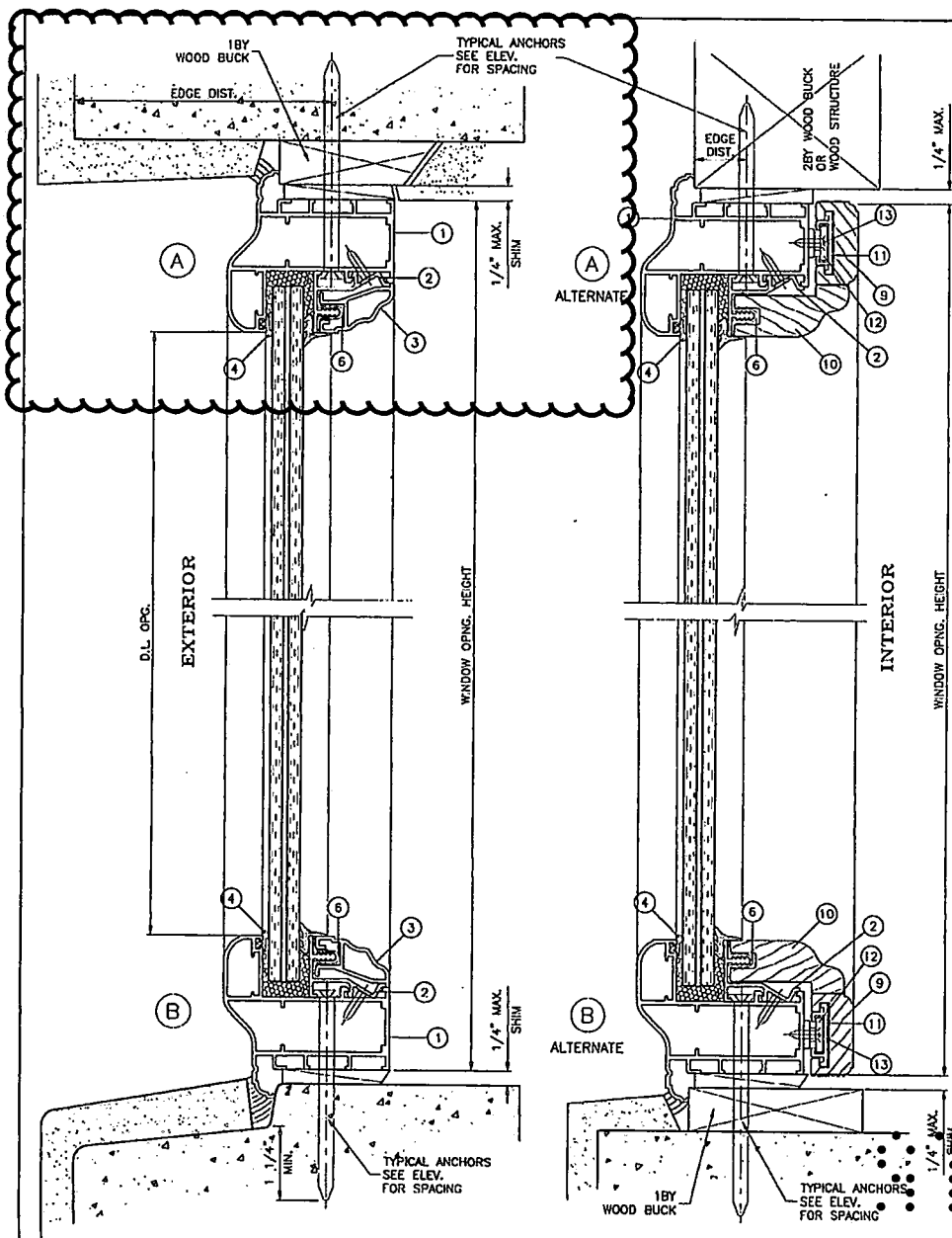
Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70582
C.A.N. 3533
JAN 4 2014

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12345 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX (305) 262-6978
COMP-ANL W07-69KUL

KORUS USA INC.
FIRENZE-VENEZIA-ROMA ALUM FIXED WDW. (L.M.I.)
8615 N.W. 64th STREET, BAY #1
MIAMI, FL 33166
TEL. (954) 874-7040 FAX. (954) 874-7049

REVISIONS:
NO. DATE BY DESCRIPTION
A 11/10/08 NO CHANGE THIS SHEET
B 10/21/09 REV. PER BCCO COMMENTS
C 02/15/12 UPDATED TO 2010 PEC
D 02/15/13 GENERAL REVISION
E 10/07/13 REV. PER REVISIONS

DATE: 09-13-07
SCALE: -
DR. BY: HAMM
CHK. BY:
drawing no.
W07-69
sheet 2 of 6



WOOD BUCKS AND METAL STRUCTURE NOT BY KORUS
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")

INTO METAL STRUCTURES

STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK (NORMAL WEIGHT) AT JAMBS f'm = 1900 PSI MIN.

SEALANTS:

VENT CORNERS SEALED WITH DOW CORNING 899 SEALANT.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 14 2014

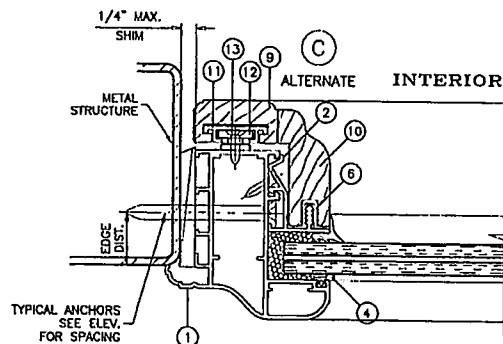
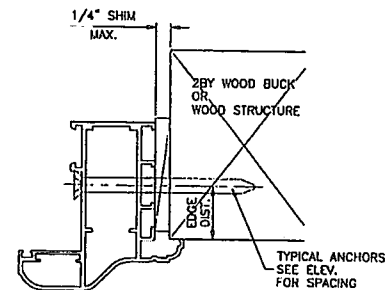
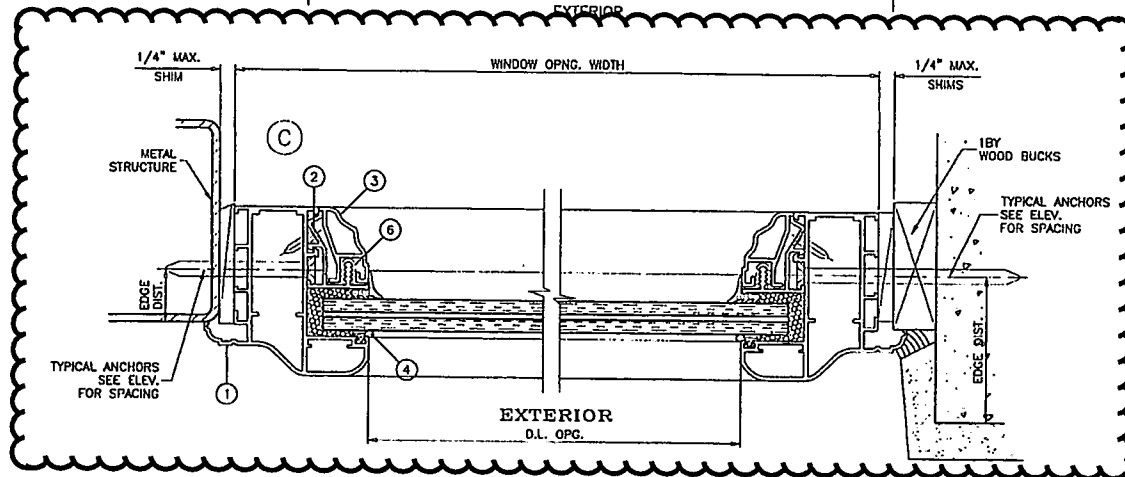
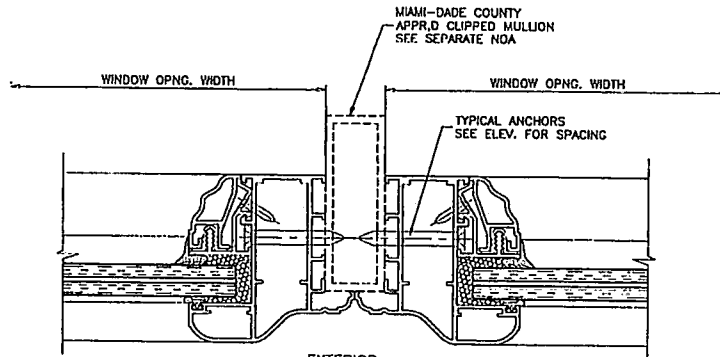
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-6100 FAX (305) 265-6978
COMP-ANL W07-69KU

PRENZE-VENEZIA-ROMA ALUM FIXED WDM. (L.M.I.)
KORUS USA INC.
8615 N.W. 64th STREET, BAY #1
MIAMI, FL 33166
TEL (954) 874-7040 FAX (954) 874-7049

NO	DATE	BY	DESCRIPTION
A	11/15/08		UPDATED FOR 2007 FBC
B	05/19/09		REV. PER BCC COMMENTS
C	02/15/12		NO CHANGE THIS SHEET
D	05/20/12		GENERAL REVISION
E	10/01/13		REV. PER COMMENTS

date: 08-13-07
scale: 1/2" = 1"
dr. by: JAVAD
chk. by:
drawing no.
W07-69
sheet 3 of 6

040



PRODUCT REVISED
to comply with the Florida
Building Code
As required by
Exhibition Date 01/16/2017

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3338

JAN 14 2014

97.20.00

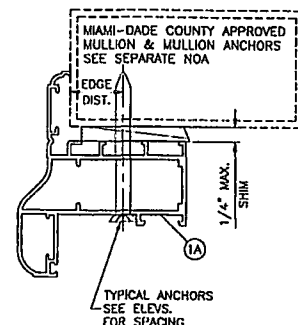
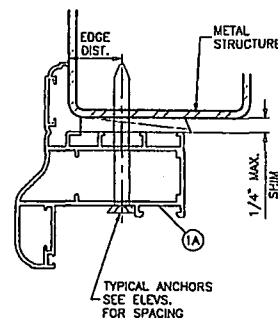
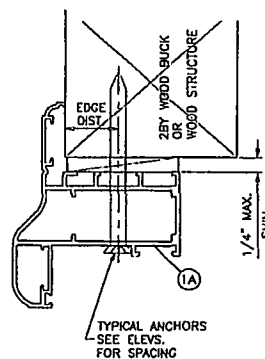
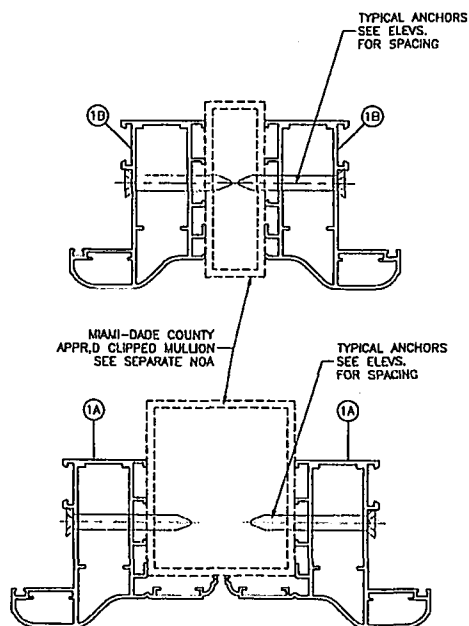
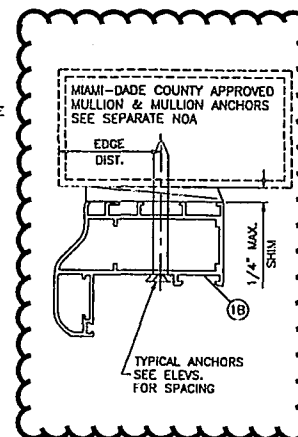
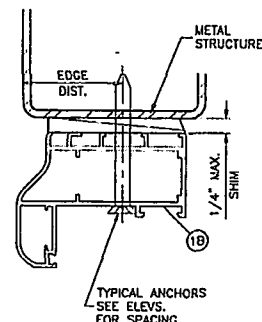
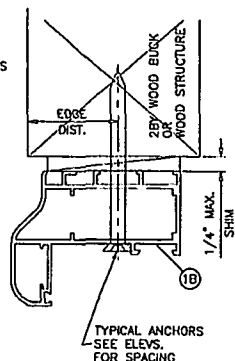
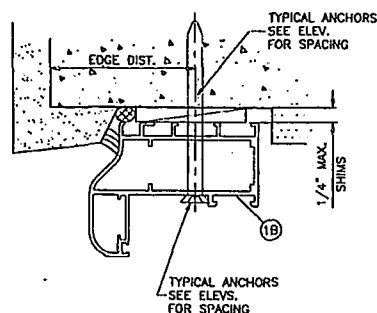
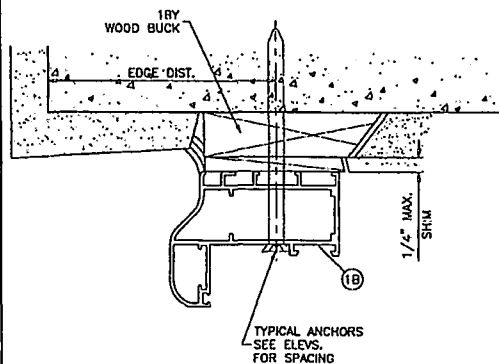
940

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12345 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
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TEL (954) 874-7040 FAX (954) 874-7049

NO	DATE	BY	DESCRIPTION
A	11.10.08		UPDATED FOR 2007 FBC
B	05.19.09		REV. FOR BCO COMMENTS
C	02.15.12		NO CHANGE THIS SHEET
D	05.20.13		GENERAL REVISION
E	10.01.13		NO CHANGE THIS SHEET

date: 08-13-07
scale: 1/2" = 1"
des. by: HAMM
chk. by:
drawing no.
W07-69
sheet 4 of 6



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0820.17
 Expiration Date 8/1/2017

Eng: JAVAD AHMAD
 CIVIL
 FLA. PE # 70302
 C.A.N. 3538
 JAN 14 2014

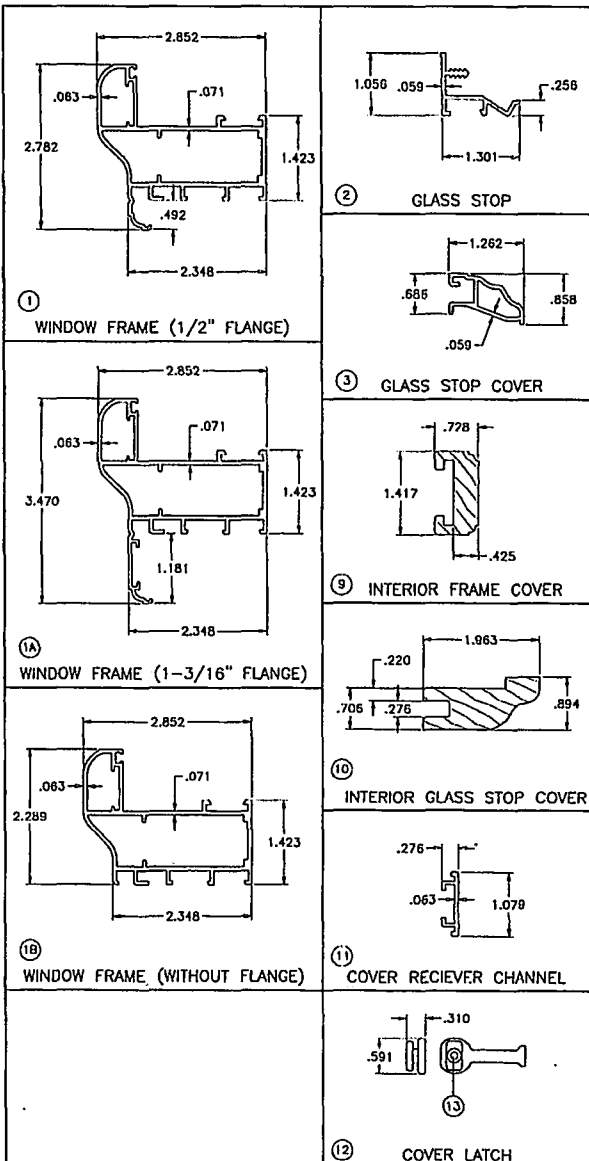
INSTALLATION DETAILS
 FRAMES WITHOUT FLANGE
 FRAMES WITH 1-3/16\"/>

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 4135 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 CONF-ANL-W07-69KU

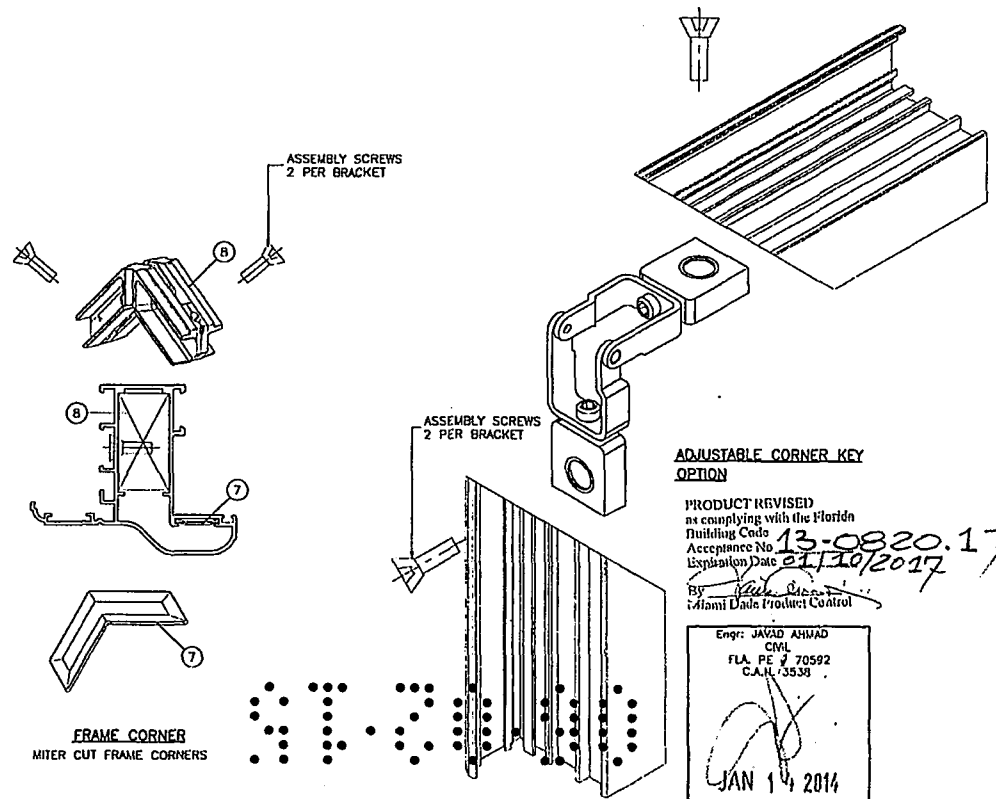
KORUS USA INC.
 8615 N.W. 64th STREET, BAY #1
 MIAMI, FL. 33166
 TEL (954) 874-7040 FAX (954) 874-7049

Revisions:	no	date	by	description

date: 09-13-07
 scale: 1/2" = 1"
 dr. by: HAND
 chg. by:
 drawing no.
W07-69
 sheet 5 of 6



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	KA205	4	WINDOW FRAME (1/2" FLANGE)	6060-T5	KORUS
1A	KA011	4	WINDOW FRAME (1-3/16" FLANGE)	6060-T5	KORUS
1B	KA020	4	WINDOW FRAME (WITHOUT FLANGE)	6060-T5	KORUS
2	KAD06	4	GLASS STOP	6060-T5	KORUS
3	KAD07	4	GLASS STOP COVER (DECORATIVE)	6060-T5	KORUS
4	COP8069	4	EXTERIOR GASKET	EPDM	COMPLASTEX
5	COPOUP4W	4	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
5A	COPOUP5W	4	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
5B	COPOUP6W	4	INTERIOR GLAZING GASKET	EPDM	COMPLASTEX
6	COP2217	AS REQD.	GLASS STOP HOOK GASKET	EPDM	COMPLASTEX
7	PONK20	AS REQD.	ALIGNING BRACKET	PAS	PONTINA STAMP
8	MON5002	AS REQD.	FRAME JOINING BRACKET	CAST ALUM	MONTECELLI
9	-	AS REQD.	INTERIOR FRAME COVER (DECORATIVE)	WOOD	DECORATIVE
10	-	AS REQD.	INTERIOR GLASS STOP COVER (DECORATIVE)	WOOD	DECORATIVE
11	C71808	AS REQD.	DECORATIVE COVER RECIEVER CHANNEL (CONT.)	6060-T5	KORUS
12	PS002	AS REQD.	DECORATIVE COVER LATCH AT 12" O.C.	CAST ALUM	MONTECELLI
13	#8 X 3/4"	1/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS



a f c

AL-FAROQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL: (305) 264-8300 FAX: (305) 262-8978
 COMP-ALV007-69KUJ

PRENZE-VENEZIA-ROMA ALUM FIXED WDW. (L.M.I.)

KORUS USA INC.
 8615 N.W. 64th STREET, BAY #1
 MIAMI, FL 33166
 TEL: (954) 874-7040 FAX: (954) 874-7049

REVISIONS:

NO	DATE	BY	DESCRIPTION
A	11/10/08	UPATED FOR 2007 IRC	
B	05/19/09	REV. PER BCO COMMENTS	
C	02/15/12	NO CHANGE THIS SHEET	
D	05/20/13	GENERAL REVISION	
E	11/01/13	REV. PER BCO COMMENTS	

date: 09-13-07
 scale: 1/2" = 1"
 dr. by: HAME
 chg. by:

drawing no.
W07-69

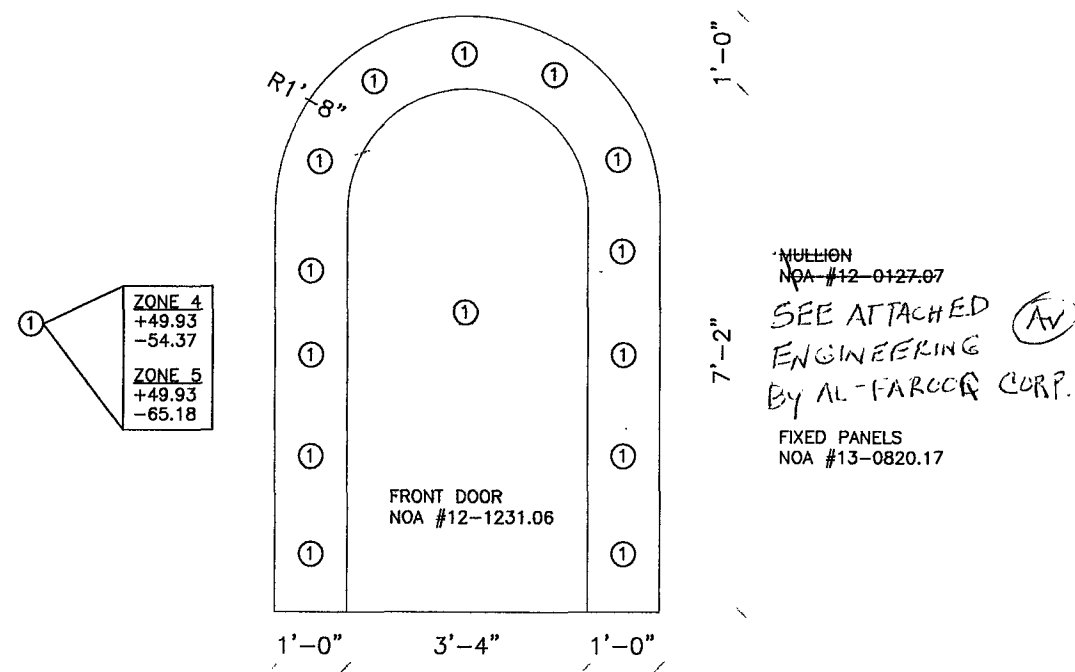
sheet 6 of 6

QW0

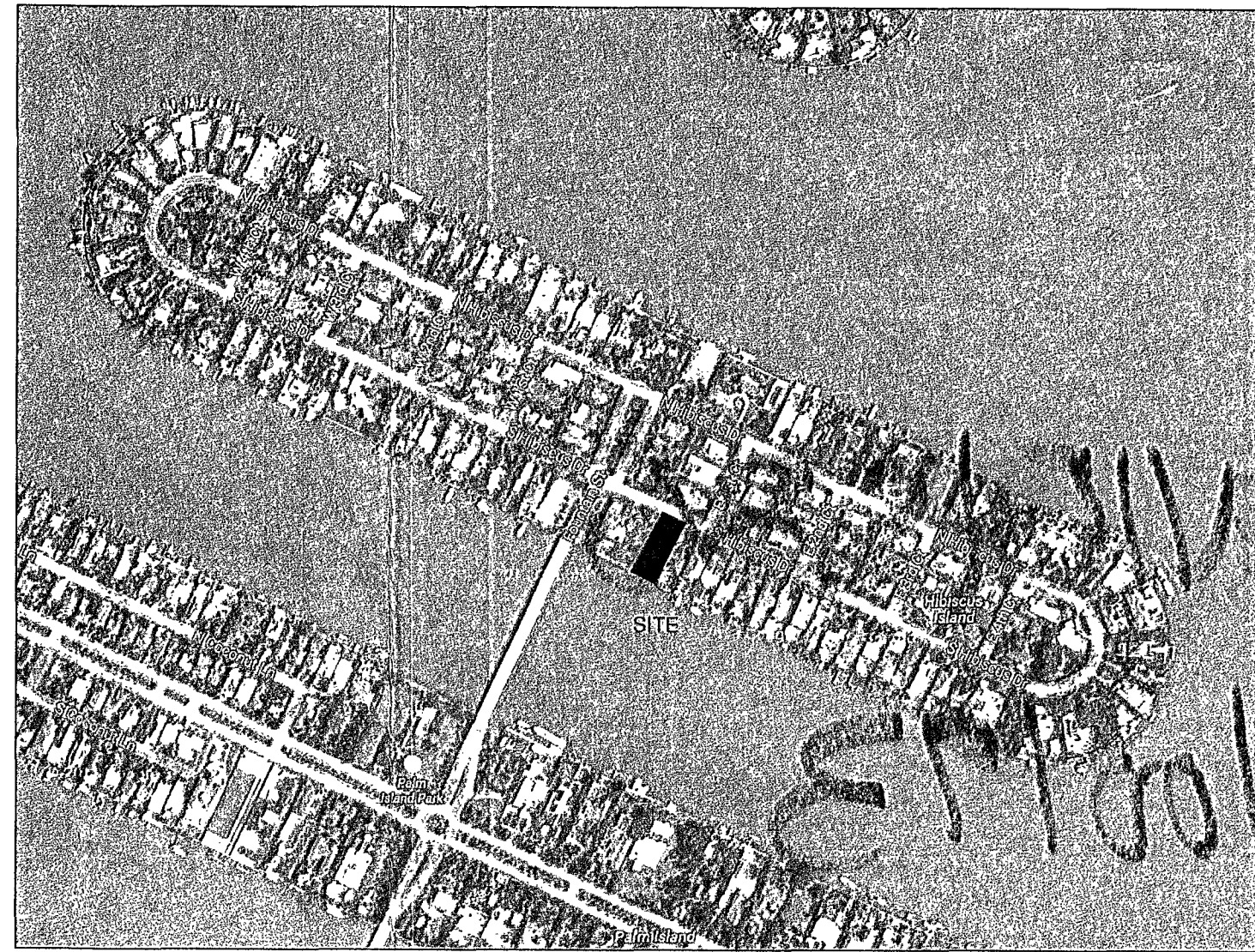
SCOPE OF WORK

1. Installation of front door

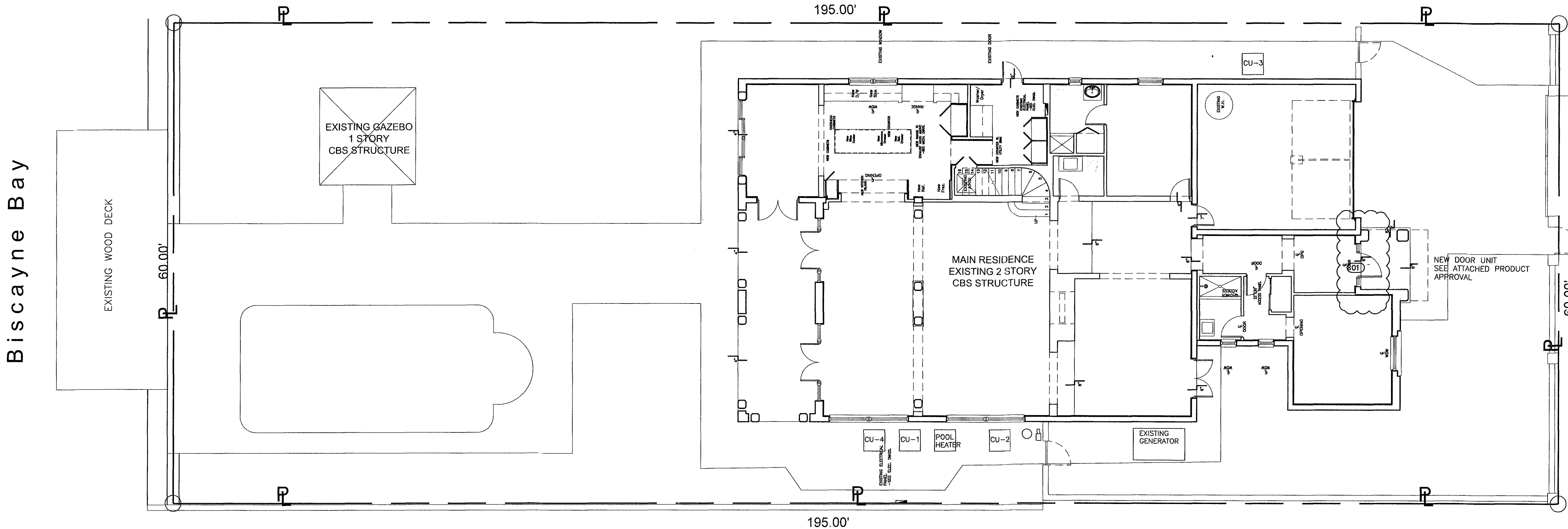
NEW EXTERIOR DOOR SCHEDULE			
NO.	LOCATION	DOOR SIZE	REMARKS
01	MAIN ENTRANCE	3'-4" x 7'-2" x 1 3/4"	NOA No.12-1231.06, NOA No.13 -0820.17, NOA No.12-0127-07 (K)



EXTERIOR DOOR ELEVATION
SCALE: 3/8"=1'-0"



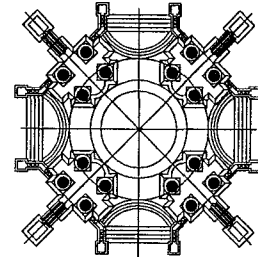
LOCATION MAP
N.T.S.



PROPOSED SITE PLAN / GROUND FLOOR
SCALE: 1/8" = 1'-0"

OFFICE COPY CITY OF MIAMI BEACH APPROVED FOR PERMIT BY THE FOLLOWING:	
BUILDING:	DATE: 6/2/15
PLUMBING:	
ELECTRICAL:	
Mechanical:	
FIRE PREVENTION:	
LOOD:	
SLIC WORKS:	Av 6/2/15
STRUCTURAL:	
ELEVATOR:	
ROOFING:	

PROJECT / SHEET TITLE	
SNYDER RESIDENCE 190 S Hibiscus Drive, Miami Beach, FL 33139	
FRONT ENTRY DOOR	
LIC. AR8223	
DATE: May 4, 2015	
DRAWN BY: AB	CHECKED BY: ZJ
SCALE: AS SHOWN	
SHEET	
A15.01	



ZOLTAN JAROSZ ARCHITECT, P.A.
3326 MARY STREET, SUITE 500
COCONUT GROVE, FLORIDA 33133
305.446.0888 WWW.JAROSZARCH.COM

2881 21/1/83

BDEV/15/835

B/400/93

190 S Hibiscus

DR.

OFFICE COPY

BDEV/12/832

Permit History - PermitsPlus

Total Permits: 76

Permit No	COMP TYPE	SUB TYPE	DESCRIPTION
BP160038	BSUBPLUM	ALTRMDL	Renew/BP141868/ Installation of new spa
BP152412	BSUBPLUM	WELL	B1505842/ 2" POOL DISCHARGE WELL
B1505842	BUILD	POOL-R	Renew/B1404308/New Construction of a Spa
BCO15332	BCOCC	COMPLETE	CO/ New 2 story addition , existing kitchen
BE153077	BSUBELEC	ALTRMDL	Replace/BE142780/Install a new electrical for
BREV152634	BREV	POOL-R	B1505842- RELOCATING POOL
BREV152227	BREV	NCONST-R	Rvsn to B1400193- Plumbing Gas Revision
BREV152025	BREV	NCONST-R	B1400193/Change front door design
BREV151835	BREV	NCONST-R	Rvsn to B1400193/ Install front door (NOA's)
BE151642	BSUBELEC	ALTRMDL	b1400193 / New electrical of 40 outlets, new
B1501155	BSBUILD	DRWNW-R	B1400193 - Installation of garage door (NOA)
BREV142531	BREV	NCONST-R	Rvsn to B1400193- Structural grider truss-tie
B1406011	BSBUILD	ROOFING	B1400193/ Install vereaspanish "s" tile on
BE142780	BSUBELEC	ALTRMDL	B1404308/ Installa new electrical for spa
BE142778	BSUBELEC	ALTRMDL	B1404308/ Install new electrical for spa
BP141868	BSUBPLUM	ALTRMDL	B1404308/ Installation of new spa equipment
BREV141916	BREV	ALTRMD-R	B1400193/Revision to floor elevation, new
BREV141854	BREV	NCONST-R	RVS#B11400193/ TRUSS SHOP
B1404308	BUILD	POOL-R	New Construction of a Spa in an existing pool
BP141362	BSUBPLUM	ALTRMDL	B1400193--- PLUMBING SERVICE FOR
B1402636	BSBUILD	DRWNW-R	B1400193/Installing (11) windows & (1) door
BE141492	BELEC	LOWVOLT	B1400193/Low voltage phones, data,
BM140734	BSUBMECH	A/C	B1400193/Install ac & ductwork
BD140118	BDEMOPRJ	PARTIAL	RENEW BD130313 TO Demolish Portion of
BMS1400440	BMISC	DOC HIST	4 mf copies
B1400193	BUILD	NCONST-R	New 2 story addition , existing kitchen
BD130313	BDEMOPRJ	PARTIAL	Demolish Portion of partition wall to enlarge
BMS1301438	BMISC	DOC HIST	CD
BM120536	BMECH	A/C	CHANGE OUT 1 TON MINISPLIT A/C
BMS1001958	BMISC	DOC HIST	CD
BE100223	BELEC	SRVCS	Increase svc from 200 amp to 300 amp
B0805150	BSBUILD	ROOFING	RE-ROOF in main house & gazebo./ 5100
BM070867	BMECH	A/C	RNW EXP. PERMIT #BM070020 & RPLC
B0701541	BSBUILD	AWNING	INSTALL CAVAS CARPORT.
BM070020	BMECH	A/C	C/O 1.5T LENNOX MINI-SPLIT /RNW EXP.
BE062775	BELEC	ALTRMDL	ELEC for 45 kw generator & 200 amps
BM060994	BMECHW	VENT	TESTING

BG060001	BGENR	GNRTRSDT	USING TO TEST WEB PERMITS
BMS0603615	BMISC	REVISE	Rvsn/B0601940/ele plan
BE062316	BELEC	ALTRMDL	INSTALL GENERATOR
BMS0603022	BMISC	REVISE	Rvsn/B0601940/chng location and size of
BP060755	BPLUMW	ALTRMDL	gas generator
B0601940	BUILD	OTHER	INSTALL CONCRETE PAD FOR
B0500015	BSBUILD	MRNE-R	NEW A498 SQ FT DOCK WITH 10 PILINGS
B0302804	BSBUILD	OTHER	1 GARAGE DOOR REPLACEMENT
BM020045	BMECH	A/C	split system replacement
BMS0101300	BMISC		RESEARCH OF PROPERTY
BCC0100096	BCCOMP		Cert. of Completion for Interior Remodeling.
BP010076	BPLUM		4 GAS OUTLETS AND PIPING
BMS0003200	BMISC		Prod. controll/shop drwns. wndw/doors.
BP001258	BPLUM		REMODEL 1 WTR HTR,16 ROUGH&SETS
BE001829	BELEC		SERVICE OUTLETS PANEL APPLIANCES
B0004180	BSBUILD		CONCRETE REPAIR
BE001792	BELEC		burglar alarm,tv and telephon devices
BP000986	BPLUM		1 PORTABLE TOILET
BM000765	BMECH		REPLACE 3.5 & 5-TON SYSTEM
B0003083	BUILD		INTERIOR RENOVATIONS /NEW
BE001113	BELEC		ELECTRIC DEMOLITION
BP000740	BPLUM		PLUMBING DEMO
B0002354	BSBUILD		Partial interior non-structural demolition
BMS0001676	BMISC		BUILDING PERMIT RESEARCH
BMS0001495	BMISC		FIVE MICROFILM COPIES
BL951309	BELEV	ELEV	RESIDENTIAL ELEVATOR MB-1309
B9800287	BSBUILD	OTH	INSTALL SHUTTERS
BEL51309	BELEV	ELEV	ELEVATOR ANNUAL INSPECTION MB-
BEL41309	BELEV	ELEV	ELEVATOR ANNUAL INSPECTION MB-
BEL31309	BELEV	ELEV	ELEVATOR ANNUAL INSPECTION MB-
BEL21309	BELEV	ELEV	ELEVATOR ANNUAL INSPECTION MB-
BM910385	BMECH	OTH	INSTALL NEW HYDRA. ELEVATOR MB-
BEL11309	BELEV	ESCL	ELEVATOR ANNUAL INSPECTION MB-
BE901315	ELEC	ALT	NEW OUTLETS IN TERRACE (SF)
BE901316	ELEC	ALT	NEW OULETS IN TERRACE (SF)
BA907942	AUTOPROJ	ALT	ENCLOUSE EXISTING TERRACE ONLY
BS901395	SBUIL	ALT	ENCLOSE EXISTING TERRACE ONLY
B8800076	BUILD	ALT	REPAIR EXIST. CONCRT CAP & NEW
B8800049	BUILD	ALT	ROOM ADDITION & REMODELING & NEW

STATUS	APPLIED DATE	APPROVED DATE	EXPIRED/FINALED DATE	VAL TOTAL
APPROVED	10/7/2015	10/7/2015	8/6/2016	\$1,000.00
FINAL	8/24/2015	8/24/2015	8/6/2016	\$650.00
APPROVED	8/10/2015	8/10/2015	8/6/2016	\$13,500.00
APPROVED	8/10/2015	8/24/2015	1/1/0001	\$0.00
APPROVED	8/10/2015	8/10/2015	8/6/2016	\$800.00
APPLIED	8/10/2015	1/1/0001	1/1/0001	\$800.00
FINAL	6/29/2015	7/2/2015	1/1/0001	\$0.00
FINAL	6/5/2015	6/8/2015	1/1/0001	\$0.00
FINAL	5/13/2015	6/8/2015	1/1/0001	\$0.00
FINAL	3/5/2015	3/5/2015	12/17/2015	\$15,000.00
FINAL	12/1/2014	12/1/2014	12/17/2015	\$1,900.00
FINAL	9/9/2014	9/9/2014	1/1/0001	\$0.00
FINAL	9/2/2014	9/2/2014	5/25/2015	\$22,450.00
CLOSED	7/2/2014	7/2/2014	6/22/2015	\$800.00
VOID	7/2/2014	1/1/0001	1/1/0001	\$0.00
CLOSED	7/2/2014	7/2/2014	6/22/2015	\$1,000.00
FINAL	6/20/2014	6/27/2014	1/1/0001	\$0.00
FINAL	6/13/2014	6/27/2014	1/1/0001	\$0.00
CLOSED	6/3/2014	7/2/2014	6/22/2015	\$13,500.00
FINAL	4/17/2014	4/17/2014	1/17/2016	\$32,000.00
FINAL	3/7/2014	4/3/2014	12/17/2015	\$9,600.00
FINAL	3/5/2014	3/20/2014	1/17/2016	\$3,000.00
FINAL	2/25/2014	2/25/2014	12/10/2015	\$25,000.00
FINAL	1/22/2014	1/22/2014	1/25/2016	\$5,000.00
CLOSED	11/20/2013	1/1/0001	1/1/0001	\$0.00
FINAL	10/11/2013	2/10/2014	1/25/2016	\$329,510.00
CLOSED	7/17/2013	7/23/2013	1/19/2014	\$5,000.00
CLOSED	2/19/2013	1/1/0001	1/1/0001	\$0.00
FINAL	2/3/2012	2/3/2012	8/1/2012	\$6,700.00
CLOSED	4/20/2010	1/1/0001	1/1/0001	\$0.00
FINAL	10/27/2009	10/28/2009	5/19/2010	\$5,000.00
FINAL	9/12/2008	9/12/2008	5/20/2009	\$52,000.00
FINAL	4/19/2007	4/19/2007	4/8/2008	\$0.00
FINAL	12/18/2006	12/18/2006	10/24/2007	\$8,224.00
CLOSED	10/3/2006	10/3/2006	4/1/2007	\$3,407.00
FINAL	8/2/2006	8/2/2006	9/19/2007	\$3,600.00
VOIDWEB	6/13/2006	1/1/0001	1/1/0001	\$500.00

APPROVED	6/12/2006	6/13/2006	12/10/2006	\$1,000.00
VOID	6/8/2006	1/1/0001	1/1/0001	\$0.00
VOID	6/6/2006	1/1/0001	1/1/0001	\$0.00
VOID	5/11/2006	1/1/0001	1/1/0001	\$0.00
FINAL	3/7/2006	3/7/2006	9/19/2007	\$600.00
FINAL	2/2/2006	2/10/2006	9/19/2007	\$30,000.00
FINAL	10/1/2004	10/6/2004	7/20/2005	\$20,000.00
FINAL	4/22/2003	4/25/2003	12/6/2003	\$1,100.00
FINAL	10/5/2001	10/5/2001	9/29/2002	\$2,100.00
FINAL	2/8/2001	1/1/0001	1/1/0001	\$0.00
APPROVED	1/10/2001	1/26/2001	1/1/0001	\$0.00
FINAL	10/19/2000	10/19/2000	6/11/2001	\$750.00
FINAL	8/2/2000	8/16/2000	1/1/0001	\$0.00
FINAL	8/1/2000	8/1/2000	9/29/2001	\$7,000.00
FINAL	7/27/2000	7/27/2000	9/29/2001	\$13,800.00
FINAL	7/25/2000	8/4/2000	9/29/2001	\$10,000.00
FINAL	7/20/2000	7/20/2000	9/29/2001	\$1,500.00
FINAL	5/30/2000	5/30/2000	7/23/2001	\$500.00
FINAL	5/26/2000	5/26/2000	9/29/2001	\$6,000.00
FINAL	5/16/2000	7/19/2000	9/29/2001	\$120,000.00
FINAL	3/30/2000	3/30/2000	9/29/2001	\$500.00
FINAL	3/30/2000	3/30/2000	9/29/2001	\$300.00
CLOSED	3/28/2000	3/30/2000	9/29/2001	\$2,500.00
CLOSED	3/16/2000	3/16/2000	1/1/0001	\$0.00
CLOSED	2/29/2000	2/29/2000	1/1/0001	\$0.00
CLOSED	10/1/1998	9/19/2000	9/30/2001	\$0.00
FINAL	10/24/1997	10/24/1997	6/3/1998	\$6,500.00
VOID	10/1/1994	11/9/1994	9/30/1995	\$0.00
APPROVED	10/1/1993	11/5/1993	9/30/1994	\$0.00
APPROVED	10/1/1992	11/6/1992	9/30/1993	\$0.00
APPROVED	10/1/1991	8/13/1992	9/30/1992	\$0.00
CLOSED	1/17/1991	1/1/0001	1/1/0001	\$14,900.00
PENDING	1/17/1991	1/1/0001	1/1/0001	\$0.00
CLOSED	7/5/1990	1/1/0001	4/3/1991	\$300.00
FINAL	7/5/1990	7/5/1990	4/3/1991	\$300.00
CLOSED	5/31/1990	1/1/0001	4/3/1991	\$2,000.00
CLOSED	5/31/1990	5/31/1990	4/3/1991	\$2,000.00
CLSD-SYS	11/30/1988	12/6/1988	12/6/1989	\$4,300.00
CLSD-SYS	10/27/1988	10/28/1988	12/6/1989	\$30,000.00

PARCEL NO	STREET NO	DIR	STREET NAME
32320060870	190	S	HIBISCUS DR
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