The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

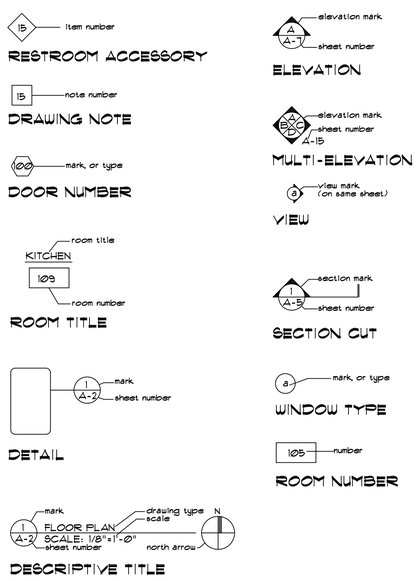
JOSE MARTI PARK WALL AND FENCE REPLACEMENT

1303 EAST 8TH STREET, YBOR FLORIDA 33605

ABBREVIATIONS

AFF	above finished floor	INSUL	insulate (d), (ion)
ADJT	adjustable	JT	joint
A/C	air conditioning	JST	joist
ALT	alternate	LAV	lavatory
AB	anchor bolt	LTL	lintel
BM	beam	MH	manhole
BIT	bituminous	MO	masonry opening
BLKG	blocking	MECH	mechanical
BUR	built up roofing	MET	metal
CIPC	cast-in-place concrete	MOD	modular
CLG	ceiling	NOM	nominal
CT	ceramic tile	NIC	not in contract
CLR	clearance	NTS	not to scale
COL	column	PLAS	plaster
CONC	concrete	PT	pressure
CMT	ceramic mosaic tile	PVC	polyvinyl chloride
CMU	concrete masonry unit	PTC	post-tension concrete
CONT	continuous or continue	PCF	pounds per cubic feet
CJ	control joint	PFL	pounds per linesl foot
DP	dampproofing	PSF	pounds per square foot
DL	dead load	PSI	pounds per square inch
DET	detail	PCC	precast concrete
DIA	diameter	PL	property line
DIM	dimension	RAD	radius
DR	door	RVT	reinforced vinyl title
DS	downspout	REF	reference
DWG	drawing	RA	return air
DF	drinking fountain	RD	roof drain
ELEC	electrical	RFG	roofing
EWC	electrical water cooler	RO	rough opening
EL	elevation	SS	service sink
EQ	equal	SIM	similar
EXIST	existing	SC	solid core
EJ	expansion joint	SPEC	specification(s)
EXT	exterior	SQ	square
FFE	finished floor elevation	SS	stainless steel
FF	finished floor line	STL	steel
FLG	flashing	STR	structural
FLR	flooring	TBR	to be removed
FD	floor drain	TEL	telephone
FTG	footing	THK	thick(ness)
FOB	furnished by others	T&G	tongue & groove
GA	gage, gauge	UNO	unless noted otherwise
GALV	galvanized	VB	vapor barrier
GC	general contractor	VERT	vertical
GL	glass, glazing	VAT	vinyl asbestos title
GB	grab bar	VB	vinyl base
GYPDWL	gypsum dry wall	WC	water closet
HH	handhole	WH	water heater
HDW	hardware	WP	water proofing
HT	height	WD	wood
HC	hollow core		
HB	hose bibb		

SYMBOLS



PROJECT NOTES

1 ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, THE STANDARD MECHANICAL CODE, THE STANDARD PLUMBING CODE, THE OCCUPATIONAL SAFETY AND HEALTH ACT, NFPA AND THE CURRENTLY ADOPTED STANDARD BUILDING CODE.

2 CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PROJECT SITE AS REQUIRED TO MAINTAIN A SAFE AND ORDERLY WORK ENVIRONMENT.

3 GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO AND DURING CONSTRUCTION.

4 DEMOLITION WORK SHALL NOT BE LIMITED TO THESE DOCUMENTS TO COMPLETE PROJECT AS ILLUSTRATED, REMOVE ITEMS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

5 EXISTING SURFACES (WALLS, CEILINGS, ETC.) SHALL BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL CLEAN SURFACES AFTER CONSTRUCTION. REPAIR, PAINT AND OR REPLACE AREAS DAMAGED AS A RESULT OF PERFORMANCE OF THE WORK.

6 ALL WORK SHALL BE COORDINATED WITH THE CITY OF TAMPA'S ARCHITECTURAL REPRESENTATIVE.

7 THE CONTRACTOR SHALL SECURE ALL OPENINGS UNDER CONSTRUCTION AT THE END OF EACH WORKING DAY.

8 ITEMS OR AREAS DAMAGED BY THE CONTRACTOR OR SUBCONTRACTORS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

9 IN GENERAL, ON SITE WORK SHALL NOT START UNTIL ALL MATERIAL IS AVAILABLE FOR INSTALLATION. ONLY LIMITED WORK (NOT INTERFERING WITH THE USE OF THE KITCHEN) WILL BE ALLOWED PRIOR TO ALL MATERIAL BEING AVAILABLE TO MINIMIZE THE LENGTH OF TIME THE KITCHENS ARE OUT OF SERVICE.

10 NO STORAGE IS AVAILABLE INSIDE STATIONS FOR CONTRACTOR USE.

11 WORK CAN NOT INTERFERE WITH ONGOING OPERATIONS OF EACH STATION. COORDINATE EXTERIOR STORAGE/STAGING AREAS WITH C.O.T. REPRESENTATIVE.

PROJECT NOTES

FIRM NOTE

COMMUNITY-PANEL NUMBER
201005.00W

FLOOD ZONE - A9

CODE REFERENCES

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE DOCUMENTS COMPLY WITH CURRENTLY ADOPTED CODES.

ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH CURRENTLY ADOPTED CODES, STANDARDS AND ACTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO:

- FLORIDA FIRE PREVENTION CODE 2014
- FLORIDA BUILDING CODE 2014, 5TH EDITION
- FLORIDA STATUTE #633, WHICH INCLUDES:
- STATE FIRE MARSHALL'S RULES AND REGULATIONS
- NATIONAL ELECTRICAL CODE, 2008
- NFPA# 13, INSTALLATION OF SPRINKLER SYSTEMS.
- NFPA# 20, INSTALLATION OF SECONDARY PUMPS.
- NFPA# 24, PRIVATE FIRE SERVICE MAINS.
- NFPA# 90A, INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 1996
- NFPA# 1 & 101 (2009)

WIND SPEED : 125 MPH
EXPOSURE CATEGORY - 'B'
IMPORTANCE FACTOR - 1.15
BUILDING CATEGORY 2 -

CONTRACT ADMIN. FILE NUMBER

CONTRACT ADMIN. NUMBER

17-C-23 / 0000000

ARCHITECT

THOMAS A. HESTER, A.I.A. – PROJECT ARCHITECT
DPR #AR91743
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DR. NICK M. BRADFORD, P.E.
FL REG. #: 52585
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LANDSCAPE ARCHITECT
CITY OF TAMPA
MARGRET BORS, RLA
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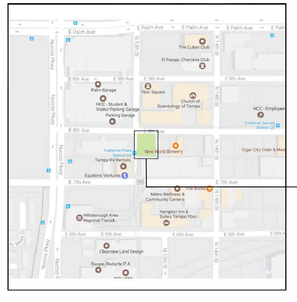
S-2.0 STRUCTURAL NOTES & DETAILS
S-3.0 STRUCTURAL NOTES & DETAILS

LANDSCAPE ARCHITECTURAL
LS-1 LANDSCAPE PLANS
LS-2 LANDSCAPE DETAILS

LOCATION MAP



SITE LOCATION
JOSE MARTI PARK
1303 EAST 8TH AVENUE
TAMPA, FLORIDA 33605

LEGAL DESCRIPTION

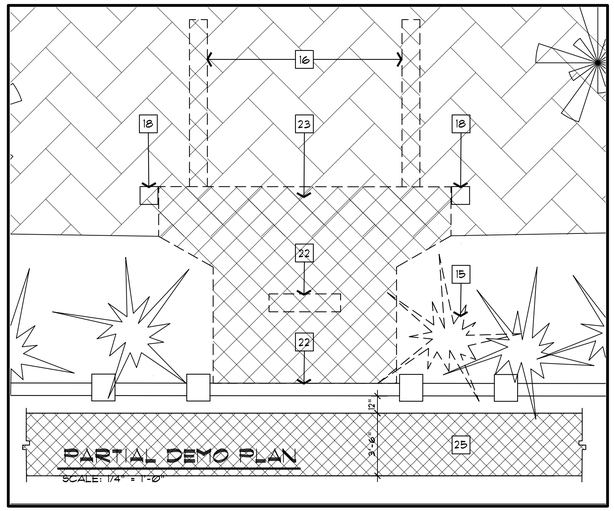
SEC 18, T29S, R19E
ATLAS SHEET No. G-13

ISSUE DATE

JUNE 2017

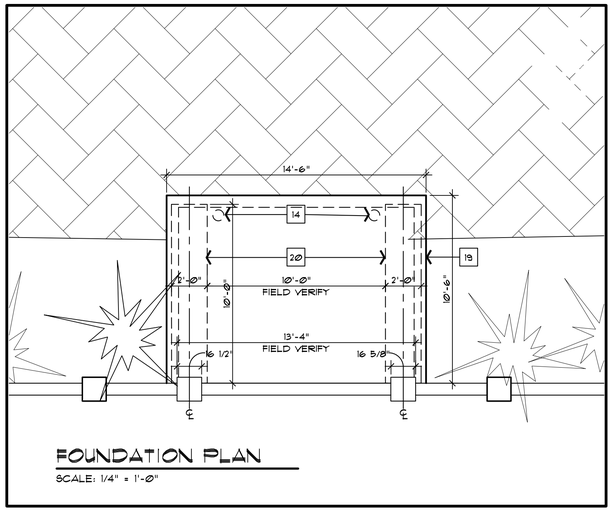
SQUARE FOOTAGE

SHEET NUMBER
G-0.1
___ OF ___



PARTIAL DEMO PLAN

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



FOUNDATION PLAN

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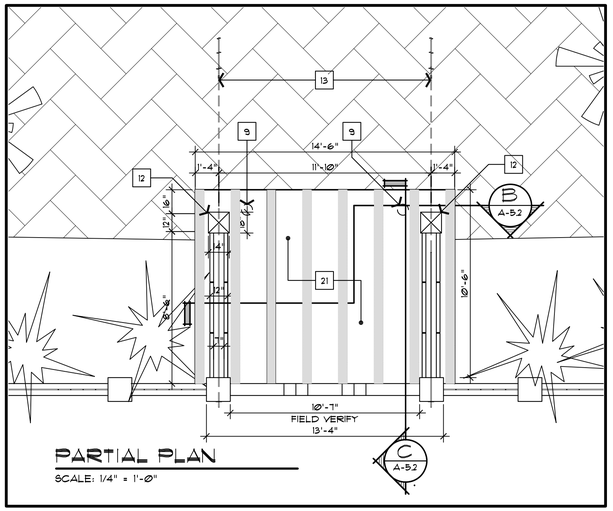

PARTIAL PLAN

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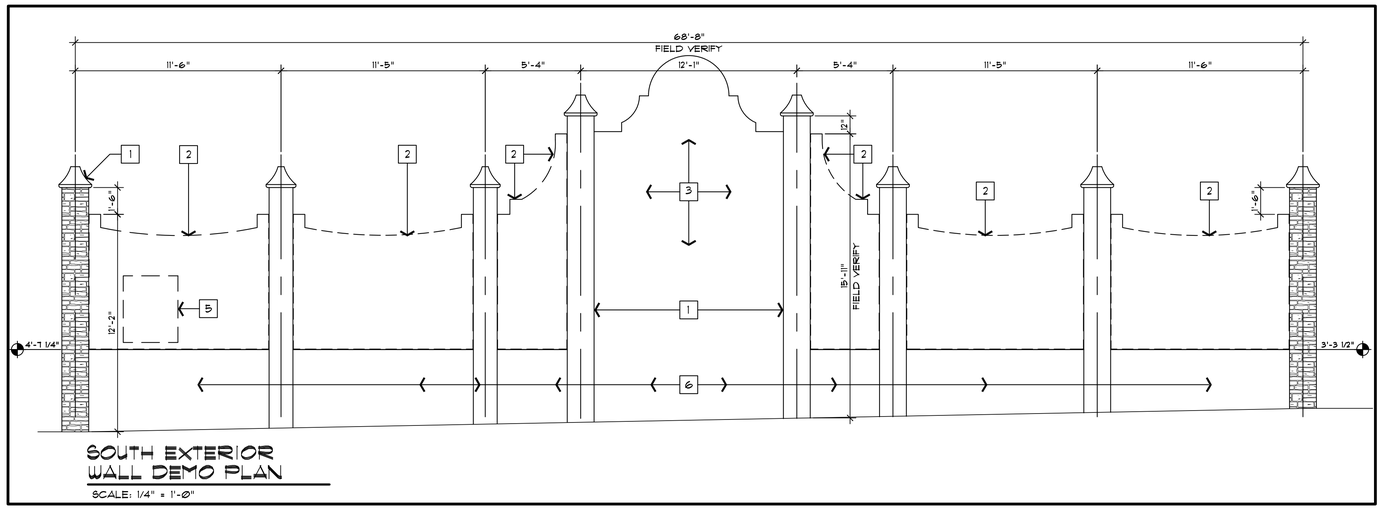
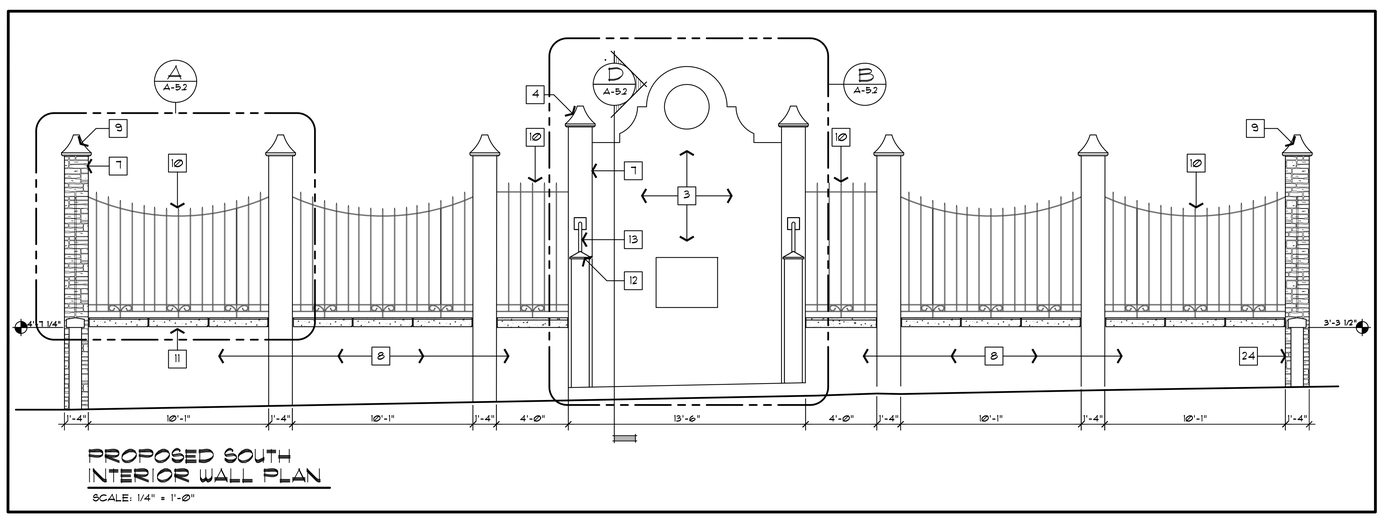


SOUTH EXTERIOR WALL DEMO PLAN

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



PROPOSED SOUTH INTERIOR WALL PLAN

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

GENERAL NOTES

EXISTING STONE-CLAD COLUMNS & WALL SEGMENTS, PRECAST WALL CAPS & COLUMNS CAPS & PARK ENTRANCE TO BE PRESSURE WASHED AND SEALED, TYPICAL

KEY NOTES

1. EXISTING PIER AND PRECAST CAP TO REMAIN, PRESSURE WASH AND SEAL
2. SAWCUT AND REMOVE EXISTING WALL SEGMENT, TYPICAL. REMOVE ANY EXISTING AFFECTED REINFORCEMENT CHANNELS
3. CENTER WALL SECTION AND ART TO REMAIN PROTECTED DURING CONSTRUCTION
4. EXISTING COLUMN CAP TO BE REPAINTED, COLOR TO BE APPROVED BY ARCHITECT
5. REMOVE AND RELOCATE EXISTING METER AND IRRIGATION CONTROLS
6. EXISTING WALL SEGMENT TO REMAIN TYP TOP OF WALL SEGMENTS TO MATCH EXISTING HEIGHT OF ADJACENT WALLS
7. EXISTING COLUMN TO BE PAINTED, COLOR TO BE APPROVED BY ARCHITECT
8. PAINT EXISTING WALL, COLOR TO BE APPROVED BY ARCHITECT
9. EXTERIOR LED FLOOD LIGHT, LITHUANIA LIGHTING OLBF OR APPROVED EQUAL
10. NEW WROUGHT IRON INFILL FENCING TO MATCH EXISTING ADJACENT WROUGHT IRON TYPICAL
11. NEW PRECAST WALL CAP, TYP. PROFILE TO MATCH PRECAST WALL CAP ON ADJACENT WALLS
12. NEW PRECAST COLUMN CAP
13. NEW HELICAL ANCHOR, SEE SHEET S-10
14. PROVIDE CONDUIT AND JUNCTION BOXES FOR LIGHTING IN CONCRETE SLAB, COORDINATE
15. REMOVE EXISTING PODOCARPUS TREE
16. REMOVE PORTIONS OF EXISTING PAVERS FOR INSTALLATION OF NEW HELICAL ANCHORS, REPLACE AND REPAIR PAVERS TO MATCH EXISTING AFTER INSTALLATION.
17. REMOVE PORTION OF EXISTING PAVERS FOR INSTALLATION OF NEW PLATFORM AND WALL SEGMENTS
18. REMOVE EXISTING BRICK PIERS, LIGHTING AND CONDUIT. REPLACE AREAS WITH BRICK PAVING
19. 4" THICK CONCRETE SLAB W/ 8" THICKENED EDGE WITH (1) #5 REBAR
20. CONTINUOUS FOOTING 24" WIDE BY 12" DEEP
21. 6" X 6" QUARRY TILE (1/2" THICK)
22. REMOVE EXISTING TILE BASE
23. REMOVE EXISTING BENCH
24. CAULK EXISTING WALL SEGMENT BETWEEN WALL AND CORNER PIER
25. REMOVE APPROXIMATELY 72 LF OF ASPHALT (FIELD VERIFY) & EARTH BELOW AND ADJACENT TO EXISTING WALL FOOTING TO ALLOW FOR CONSTRUCTION OF A NEW 32"X54" WIDE FOUNDATION. SEE DETAILS 1 AND 2, SHEET S-10

CITY OF TAMPA
CONTRACT ADMINISTRATION DEPARTMENT
PLANNING AND DESIGN DIVISION

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JOSE MARTI PARK RENOVATION
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YBOR, FLORIDA

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ISSUE DATE
MAY 2017

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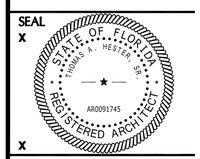
BKT

REVISIONS

SEAL
X



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SCALE: 1'=1'-0"

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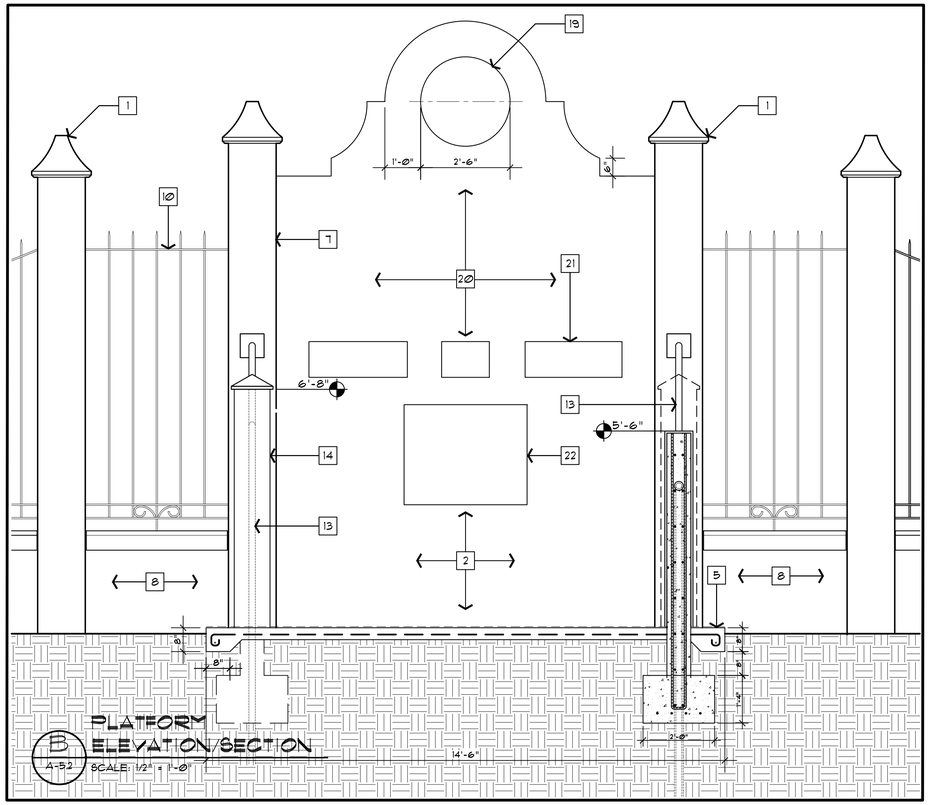
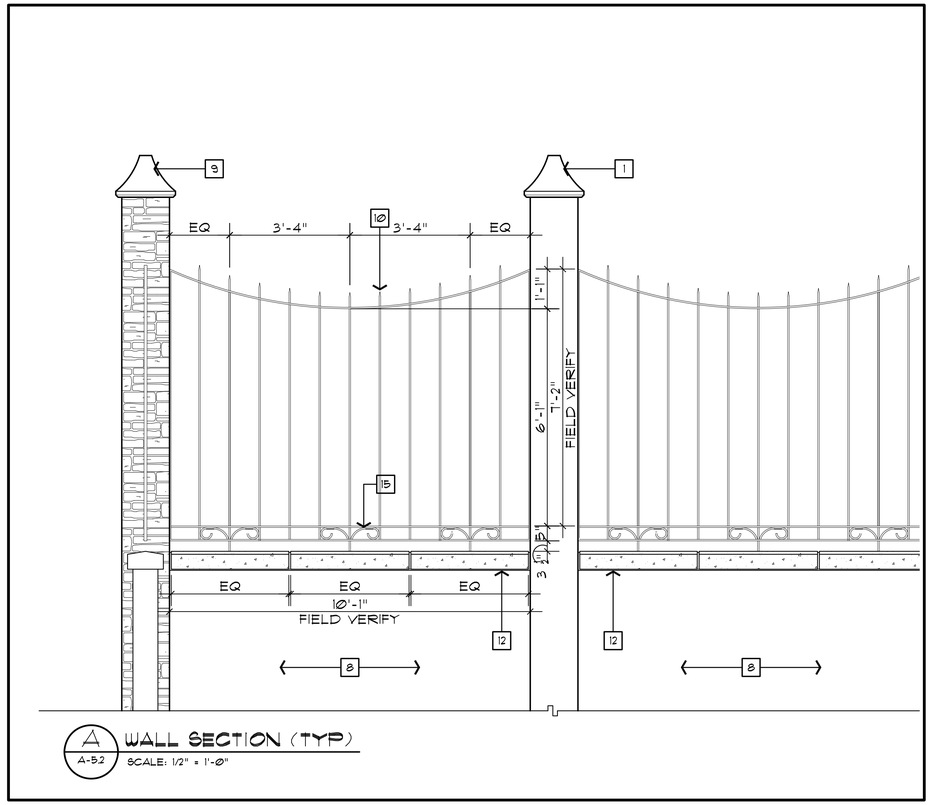


B A-5.2 PLATFORM ELEVATION/SECTION
SCALE: 1/2" = 1'-0"



A A-5.2 WALL SECTION (TYP)
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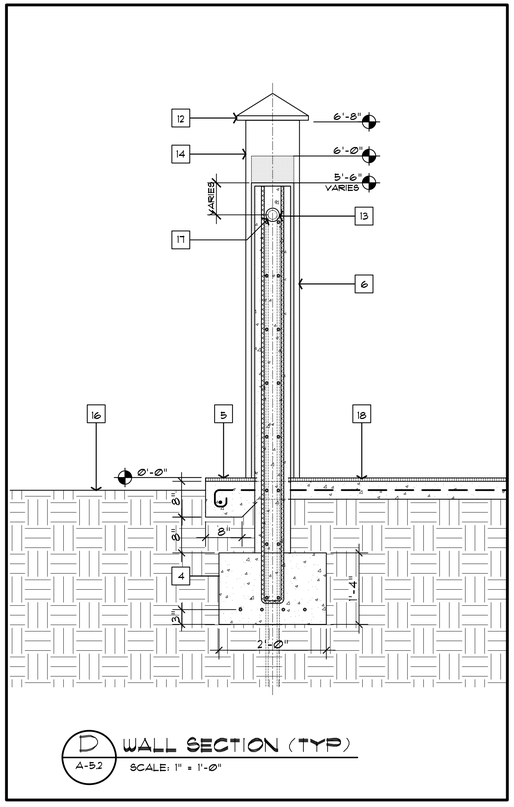

D A-5.2 WALL SECTION (TYP)
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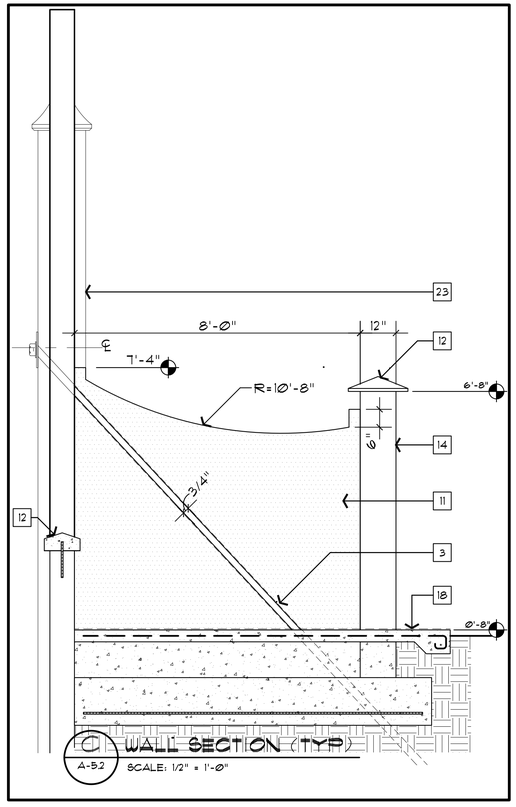

C A-5.2 WALL SECTION (TYP)
SCALE: 1/2" = 1'-0"

GENERAL NOTES

EXISTING STONE-CLAD COLUMNS & WALL SEGMENTS PRECAST WALL CAPS & COLUMNS CAPS & PARK ENTRANCE TO BE PRESSURE WASHED AND SEALED, TYPICAL

KEY NOTES

1. EXISTING PIER AND PRECAST CAP TO REMAIN
2. CLEAN & REPAINT CENTER WALL SEGMENT. PROTECT EXISTING ARTWORK WHILE REPAINTING
3. 3/4" REVEAL JOINT
4. REINFORCED CONTINUOUS CONC FOOTER
5. THICKENED EDGE CONCRETE SLAB
6. 3/4" THICK PORTLAND CEMENT PLASTER PAINTED, COLOR TO BE APPROVED BY ARCHITECT
7. EXISTING COLUMN TO BE PAINTED COLOR TO BE APPROVED BY ARCHITECT
8. PAINT EXISTING WALLS TO MATCH WALL SEGMENT ON EAST AND WEST SIDES COLOR TO BE APPROVED BY ARCHITECT
9. EXISTING PRECAST CAP TO BE PRESSURE WASHED AND SEALED, TYPICAL
10. NEW WROUGHT IRON INFILL FENCING TO MATCH TYPICAL
11. 8" THICK CONCRETE BLOCK WALL
12. NEW PRECAST COLUMN CAP. DRILL AND EPOXY INTO EXISTING REMAINING WALL SEGMENT
13. NEW HELICAL ANCHOR, SEE SHEET S-10
14. 12" X 12" CONCRETE BLOCK COLUMN POST WITH STUCCO
15. WROUGHT IRON FENCING DETAIL TO MATCH EXISTING, TYPICAL
16. FINISH GRADE
17. 2" PVC SLEEVE EMBED IN 8" THICK CONC BLOCK WALL
18. DECORATIVE 6" X 6" QUARRY TILE OVER NEW 4" CONCRETE SLAB WITH FIBER MESH AND #3 REBAR
19. EXISTING MEDALLION OF PAULINE PEDROSO CAREFULLY CLEAN SURFACE. PROTECT DURING PAINTING OF WALL SURFACE. CAULK AROUND WALL SURFACE
20. EXISTING TILE MAP OF CUBA
21. EXISTING LETTERING "ISLA DE CUBA" CAREFULLY CLEAN SURFACE. PROTECT DURING PAINTING OF WALL SURFACE
22. EXISTING PLAQUE. CAREFULLY CLEAN SURFACE. PROTECT DURING PAINTING WALL SURFACE. CAULK AROUND EDGES

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YBOR, FLORIDA

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ISSUE DATE
MAY 2017

DRAWN BY
BKT

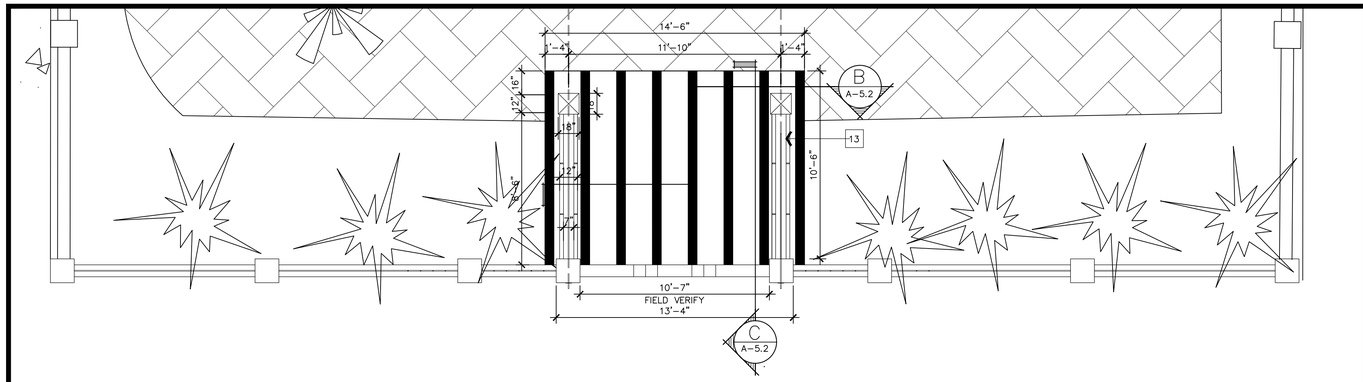
REVISIONS

SEAL
X
STATE OF FLORIDA
THOMAS A. HESTER SR.
AR0091745
REGISTERED ARCHITECT
X

SCALE: 1'=1'-0"

SHEET NUMBER
A-5.2

X OF X



PROPOSED WINGWALL PLAN (D)
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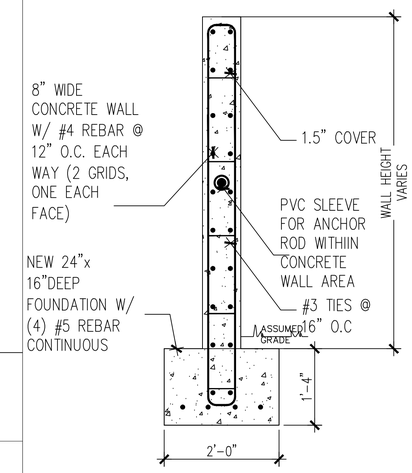

WALL DETAIL (3)
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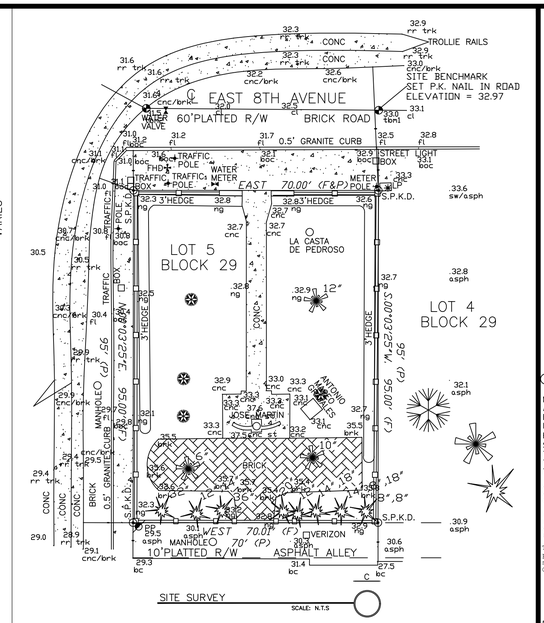

SITE SURVEY
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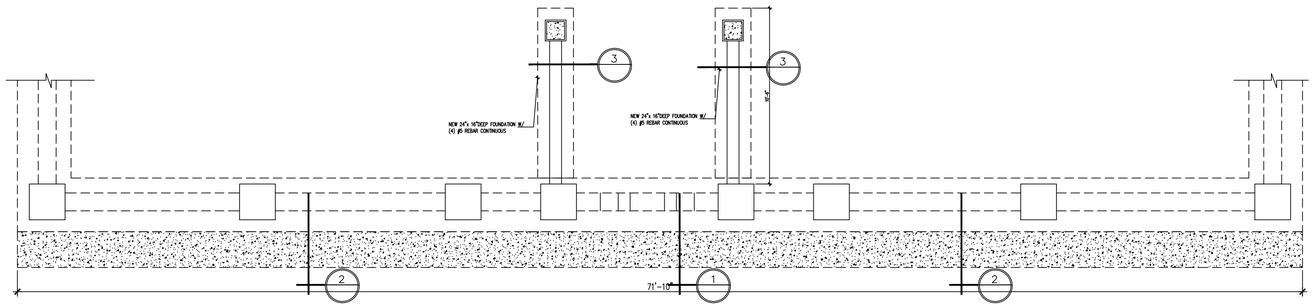
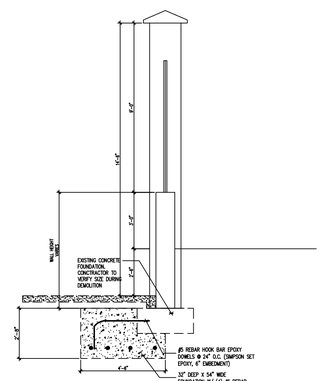


PROPOSED WALL REHAB – REAR (C)
SCALE: N.T.S



PROPOSED WALL REHAB – Center (2)
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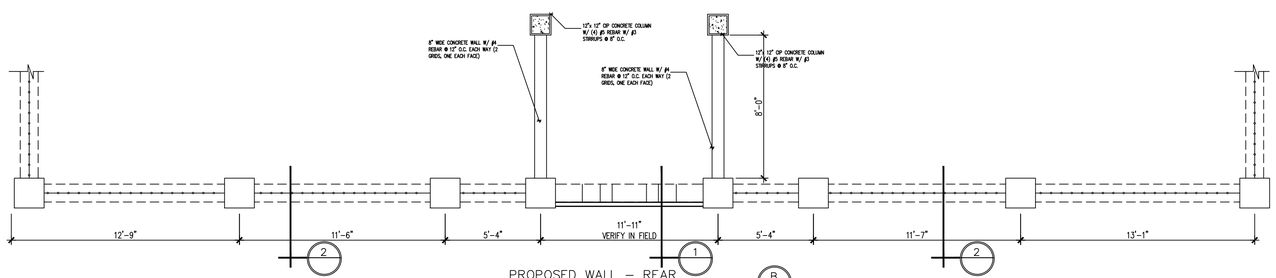

PROPOSED WALL – REAR (B)
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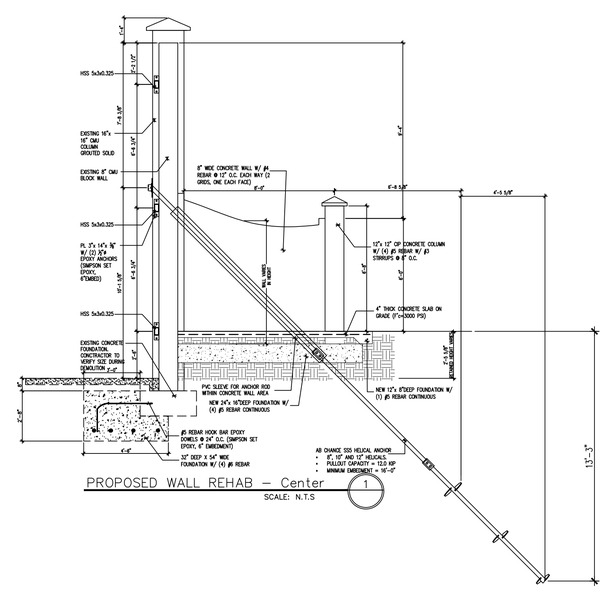

PROPOSED WALL REHAB – Center (1)
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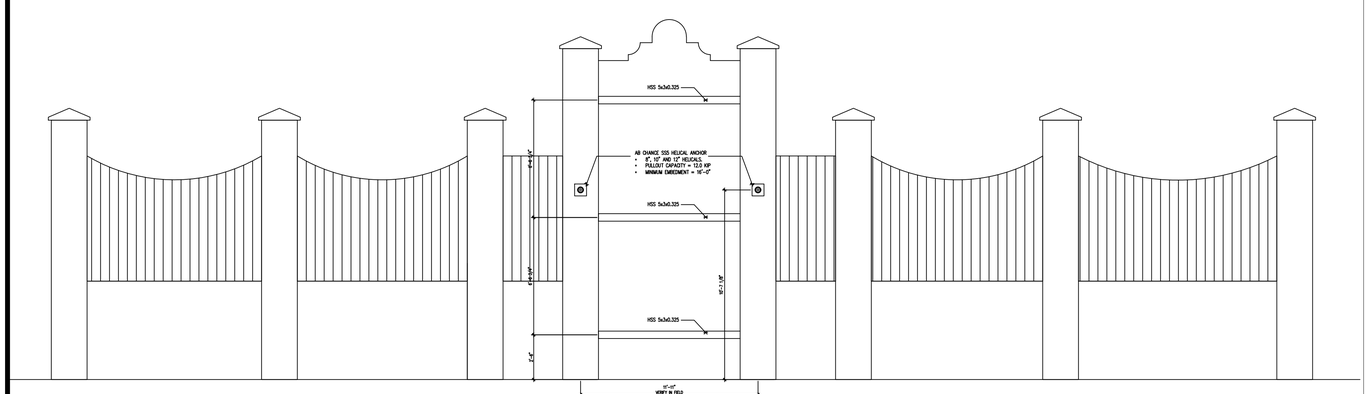

PROPOSED WALL REHAB – REAR (A)
SCALE: N.T.S

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FL Reg. #52585
1714 N. Armenia Avenue, #B
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Fax (813)875-9320
www.Structures-Group.com
email: structuresgroup@verizon.net

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CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY CONSTRUCTION. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR ANY DIMENSIONS.

THE STRUCTURES GROUP IS RESPONSIBLE FOR PROPOSED CHANGES TO ORIGINAL STRUCTURE SHOWN ON THESE PAGES ONLY. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR EXISTING STRUCTURAL COMPONENTS.

To the best of the engineer's knowledge, the plans and specifications comply with the minimum requirements of The Florida Building Code. (2010 Edition)

Plans and specifications comply with the Florida building code, section 1609 for 145 mph wind zone (2010 Edition)

This drawing is valid for 12 months after the date it is signed and sealed or until the requirements of the 2010 edition of the Florida Building Code is changed.

This drawing is signed and sealed for the structural portions of the drawing only. Architectural, electrical, or mechanical details, if shown, are for visual reference only and are not covered under this seal.

REV.	DATE & COMMENTS	BY

JOSE MARTI PARK
WALL REHAB

Florida

JOB NUMBER :	20170290
DATE :	MAY 31, 2017
DRAWN BY :	NMB
SCALE :	

SHEET NUMBER
S1.0

SIGN & SEAL

Dr. Nick M. Bradford, P.E. S.E. S.I.
FL Reg. #52585

GENERAL NOTES

1.0 GENERAL

1.1 STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
1.2 VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.
1.3 DO NOT SCALE DRAWINGS.
1.4 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS STEEL ITEMS NOT SHOWN HEREON.
1.5 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, SUPPORTED AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASED.
1.6 COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS AND ROOF WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS.
1.7 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER.
1.8 TOP OF SLAB AT GROUND LEVEL REFERENCE EL. 100'-0". SEE SITE PLAN FOR ACTUAL ELEVATION.
1.9 NO CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THE APPROVED SHOP DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER.
1.10 SUBMITTALS SHALL CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS, AND SHALL BE CHECKED AND MARKED "APPROVED" BY CONTRACTOR PRIOR TO SUBMITTAL. NON-CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
1.11 SHOP DRAWINGS SHALL NOT BE REPRINTS OF CONTRACT DOCUMENTS.
1.12 THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES. THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.
1.13 DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
1.14 THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
1.15 DESIGN DATA
1.12.1 LIVE LOADS:
ROOFS 30 PSF

1.12.2 DEAD LOADS
MEP 5 PSF

1.16 WIND VELOCITY 145 MPH (I = 1.0), EXP. C, PER FBC 5th Ed. U.O.N.
1.17 ALLOWABLE SOIL PRESSURE 2500 PSF (ASSUMED)

2.0 FOUNDATIONS

2.1 PREPARE SITE & COMPACT BEARING SOIL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT. PREPARED SPECIFICALLY FOR THIS PROJECT. ENGINEER ASSUMES NO RESPONSIBILITY FOR SETTLEMENT OR OTHER FOUNDATION ISSUES DUE TO FAILURE OF OWNER OR CONTRACTOR TO PERFORM THE NECESSARY GEOTECHNICAL INVESTIGATION.

3.0 REINFORCING

3.1 SUBMITTALS FOR REVIEW
3.1.1 SHOP DRAWINGS: INDICATE BAR SIZES, SPACINGS, LOCATIONS, AND QUANTITIES OF REINFORCING STEEL AND WIRE FABRIC, BENDING AND CUTTING SCHEDULES, AND SUPPORTING AND SPACING DEVICES.
3.1.2 MANUFACTURER'S CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
3.2 PERFORM WORK IN ACCORDANCE WITH CRSI 63 AND MANUAL OF PRACTICE, ACI 301, ACI SP-66 AND ACI 318. MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.
3.3 REINFORCEMENT
3.3.1 REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, LATEST REVISION, WITH SUPPLEMENT (S1), MARKED "S".
3.3.2 STIRRUP STEEL: ASTM A82.
3.3.3 WELDED STEEL WIRE FABRIC: ASTM A185 PLAIN TYPE INSTALL ON BRICKS OR BOLSTERS AT MID-DEPTH OF SLAB.
3.4 ACCESSORIES
3.4.1 TIE WIRE: MINIMUM 16 GAGE ANNEALED TYPES.
3.4.2 CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS: SIZED AND SHAPED FOR STRENGTH AND SUPPORT OF REINFORCEMENT DURING CONCRETE PLACEMENT CONDITIONS INCLUDING LOAD BEARING PAD ON BOTTOM TO PREVENT VAPOR BARRIER PUNCTURE.

3.5 FABRICATION
3.5.1 FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ASTM A184.
3.5.2 LOCATE REINFORCING SPLICES NOT INDICATED ON DRAWINGS, AT POINT OF MINIMUM STRESS. REVIEW LOCATION OF SPLICES WITH ENGINEER.
LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SHOWN IN TABLE, UNLESS OTHERWISE NOTED:

MINIMUM SPLICE LENGTH FOR DEFORMED BARS					
		3000 PSI		4000 PSI	
		CLASS A	CLASS B	CLASS A	CLASS B
T<12"	#6 OR LESS	44Db	57Db	38Db	49Db
	#7 OR MORE	55Db	71Db	47Db	61Db
T>12"	#6 OR LESS	57Db	74Db	50Db	65Db
	#7 OR MORE	71Db	81Db	61Db	79Db

NOTES:
"T" IS DEPTH OF CONCRETE UNDER BARS
3.5.3 PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF TOP BARS.
3.5.4 AT CHANGES IN DIRECTION OF CONCRETE WALLS AND TIE BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.
3.6 PLACEMENT
3.6.1 PLACE, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION.
3.6.2 DO NOT DISPLACE OR DAMAGE VAPOR BARRIER.
3.6.3 ACCOMMODATE PLACEMENT OF FORMED OPENINGS.
3.6.4 MAINTAIN CONCRETE COVER AS INDICATED ON DESIGN DRAWINGS.
3.6.5 WHERE BEAM REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORT AND TOP BARS AT CENTER OF SPAN.
3.6.6 WHERE PIPING PENETRATES CONCRETE BEAMS, PLACE TWO #3 STIRRUPS @ 3" O.C. EACH SIDE OF PIPE, UNLESS OTHERWISE NOTED.

4.0 CIP CONCRETE

4.1 SUBMITTALS FOR REVIEW
4.1.1 PRODUCT DATA: SUBMIT CONCRETE DESIGN MIXES FOR APPROVAL.
4.2 SUBMITTALS AT PROJECT CLOSEOUT
4.2.1 ACCURATELY RECORD ACTUAL LOCATIONS OF EMBEDDED UTILITIES AND COMPONENTS WHICH ARE CONCEALED FROM VIEW.
4.3 QUALITY ASSURANCE
4.3.1 PERFORM WORK IN ACCORDANCE WITH ACI 301.
4.3.2 MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.
4.3.3 ACQUIRE CEMENT AND AGGREGATE FROM SAME SOURCE FOR ALL WORK.
4.3.4 CONFORM TO ACI 305R WHEN CONCRETING DURING HOT WEATHER.
4.3.5 CONFORM TO ACI 306R WHEN CONCRETING DURING COLD WEATHER.
4.4 CONCRETE MATERIALS
4.4.1 CEMENT: ASTM C150, TYPE II - MODERATE.
4.4.2 FINE AND COARSE AGGREGATES: ASTM C33.
4.4.3 WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
4.5 ADMIXTURES
4.5.1 AIR ENTRAINMENT: ASTM C260.
4.5.2 CHEMICAL: ASTM C494 TYPE A-WATER REDUCING; TYPE B-RETARDING; TYPE C-ACCELERATING; TYPE D-WATER REDUCING AND RETARDING; TYPE E-WATER REDUCING AND ACCELERATING; TYPE F-WATER REDUCING, HIGH RANGE; TYPE G-WATER REDUCING, HIGH RANGE AND RETARDING.
4.5.3 FLY ASH: ASTM C618 CLASS A.
4.6 ACCESSORIES
4.6.1 BONDING AGENT: POLYMER RESIN EMULSION OR POLYVINYL ACETATE.
4.6.2 VAPOR RETARDER: 10 MIL THICK CLEAR POLYETHYLENE FILM TYPE RECOMMENDED FOR BELOW GRADE APPLICATION.
4.6.3 NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 2,400 PSI IN 48 HOURS AND 7,000 PSI IN 28 DAYS. VIBROPRUF #11, BY LAMBERT CORPORATION OR APPROVED EQUAL.
4.7 CONCRETE MIX
4.7.1 MIX CONCRETE IN ACCORDANCE WITH ACI 304. DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94.
4.7.2 SELECT PROPORTIONS FOR NORMAL WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301. PROVIDE CONCRETE TO THE CRITERIA AS FOLLOWS:

	28 DAY COMP. STRENGTH	SLUMP (+/- 1)	W/C RATIO (MAX.)	MAX. AGGREGATE
FOUNDATIONS	3000 PSI	5"	0.48	3/4"
SLABS ON GRADE	3000 PSI	4"	0.45	3/4"
BOND BEAMS	3000 PSI	5"	0.50	3/8"
FILLED CELLS (GROUT) ASTM C-476	3000 PSI	8" TO 11"	0.55	3/8"
CIP CONCRETE BEAMS	3500 PSI	5"	0.48	3/4"
CIP CONCRETE COLUMNS	3500 PSI	5"	0.48	3/4"

SUBMIT DESIGN MIXES FOR APPROVAL AT LEAST ONE WEEK PRIOR TO CONCRETE POUR. DESIGN MIX SUBMITTALS MUST INDICATE PROPOSED LOCATION OR TYPE OF USE. FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
4.7.3 USE ACCELERATING ADMIXTURES IN COLD WEATHER ONLY WHEN APPROVED BY ENGINEER. USE OF ADMIXTURES WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS.
4.7.4 USE OF CALCIUM CHLORIDE PROHIBITED.
4.7.5 USE SET RETARDING ADMIXTURES DURING HOT WEATHER ONLY WHEN APPROVED BY ENGINEER.
4.7.6 ADD AIR ENTRAINING AGENT TO NORMAL WEIGHT CONCRETE MIX FOR WORK EXPOSED TO EXTERIOR.
4.7.7 FLY ASH CONTENT NOT TO EXCEED 20 % OF CEMENTITIOUS MATERIAL BY WEIGHT.
4.8 VERIFY SITE CONDITIONS PRIOR TO PLACING CONCRETE.
4.9 VERIFY REQUIREMENTS FOR CONCRETE COVER OVER REINFORCEMENT.
4.10 PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION AND CONDITION:	MINIMUM COVER:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL BARS 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER	#6 OR GREATER 2"
	#5 OR SMALLER 1-1/2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
1. SLABS, WALLS, AND JOISTS	#11 OR SMALLER 3/4"
2. BEAMS AND COLUMNS:	#14-#18 1-1/2"
(PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS)	ALL BARS 1-1/2"

4.11 VERIFY THAT ANCHORS, SEATS, PLATES, REINFORCEMENT AND OTHER ITEMS TO BE CAST INTO CONCRETE ARE ACCURATELY PLACED, POSITIONED SECURELY, AND WILL NOT CAUSE HARDSHIP IN PLACING CONCRETE.
4.12 PREPARATION
4.12.1 PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4.12.2 COORDINATE THE PLACEMENT OF JOINT DEVICES WITH ERECTION OF CONCRETE FORMWORK AND PLACEMENT OF FORM ACCESSORIES.

4.13 PLACING CONCRETE
4.13.1 PLACE CONCRETE IN ACCORDANCE WITH ACI 304.
4.13.2 NOTIFY ENGINEER MINIMUM 24 HOURS PRIOR TO COMMENCEMENT OF OPERATIONS TO ALLOW INSPECTION OF FORMWORK, REBAR REPLACEMENT AND CONFORMANCE WITH CONTRACT SPECIFICATIONS. DO NOT CALL FOR INSPECTION UNLESS ALL PREPARATIONS ARE COMPLETE. ENSURE REINFORCEMENT, INSERTS, EMBEDDED PARTS, FORMED EXPANSION AND CONTRACTION JOINTS, AND ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
4.13.3 INSTALL VAPOR RETARDER UNDER INTERIOR SLABS ON GRADE. LAP JOINTS MINIMUM 6 INCHES AND SEAL WATERTIGHT BY TAPING EDGES AND ENDS.
4.13.4 REPAIR VAPOR RETARDER DAMAGED DURING PLACEMENT OF CONCRETE REINFORCING. REPAIR WITH VAPOR RETARDER MATERIAL; LAP OVER DAMAGED AREAS MINIMUM 6 INCHES AND SEAL WATERTIGHT.
4.13.5 MAINTAIN RECORDS OF CONCRETE PLACEMENT. RECORD DATE, LOCATION, QUANTITY, AIR TEMPERATURE, AND TEST SAMPLES TAKEN.
4.13.6 PLACE CONCRETE CONTINUOUSLY BETWEEN PREDETERMINED EXPANSION, CONTROL, AND CONSTRUCTION JOINTS.
4.13.7 DO NOT INTERRUPT SUCCESSIVE PLACEMENT; DO NOT PERMIT COLD JOINTS TO OCCUR.
4.13.8 SCREED SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS OF MAXIMUM 1/4 INCH IN 10 FT.; PROVIDE FINAL FLOOR FINISH PER REQUIREMENTS SPECIFIED UNDER CONCRETE FINISHING.
4.14 CONCRETE FINISHING
4.14.1 PROVIDE FORMED CONCRETE SURFACES TO BE LEFT EXPOSED CONCRETE WITH SACK RUBBED FINISH.
4.14.2 FINISH CONCRETE FLOOR SURFACES IN ACCORDANCE WITH ACI 301.
4.14.3 WOOD FLOAT SURFACES WHICH WILL RECEIVE CERAMIC TILE WITH FULL BED SETTING SYSTEM. STEEL TROWEL SURFACES WHICH WILL RECEIVE CARPETING, RESILIENT FLOORING OR THIN SET CERAMIC TILE.
4.14.4 STEEL TROWEL SURFACES WHICH ARE SCHEDULED TO BE EXPOSED.
4.14.5 PROVIDE NONSLIP BROOM FINISH TO EXTERIOR CONCRETE SLABS. PLACE FINISH PERPENDICULAR TO TRAFFIC FLOW.
4.14.6 IN AREAS WITH FLOOR DRAINS, MAINTAIN FLOOR ELEVATION AT WALLS; PITCH SURFACES UNIFORMLY AS INDICATED ON DRAWINGS.
4.14.7 FINISH INTERIOR SLABS ON GRADE ACCORDING TO THE FOLLOWING FF/FL METHODS FOR LOCATIONS INDICATED:
4.14.8 SLAB SURFACES TO RECEIVE RESILIENT FLOORING, PAINT, OR OTHER THIN FILM COATING SYSTEM; SPECIFIED OVERALL VALUE, FF 36/FL25; MINIMUM LOCAL VALUE FF30/FL22.
4.14.9 SLAB SURFACES TO RECEIVE CARPET; SPECIFIED OVERALL VALUE FF25/FL20; MINIMUM LOCAL VALUE FF25/FL20.
4.15 CURING AND PROTECTION
4.15.1 IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.
4.15.2 MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
4.15.3 CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 308.
4.15.4 PONDING: MAINTAIN 100 PERCENT COVERAGE OF WATER OVER FLOOR SLAB AREAS CONTINUOUSLY FOR 4 DAYS.
4.15.5 SPRAYING: SPRAY WATER OVER FLOOR SLAB AREAS AND MAINTAIN WET FOR 7 DAYS.
4.15.6 MEMBRANE CURING COMPOUND: APPLY CURING COMPOUND TO CONCRETE AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE. APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.
4.15.7 MOISTURE-RETAINING COVER: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICAL WIDTH WITH SIDES AND ENDS LAPPED AT LEAST THREE INCHES (3") AND SEALED BY WATERPROOF TAPE OR ADHESIVE. IMMEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIAL AND WATERPROOF TAPE.
4.15.8 CURING FORMED SURFACES: CURE FORMED SURFACE, INCLUDING UNDERSIDES OF BEAMS, COLUMNS, SUPPORTED SLABS, AND OTHER SIMILAR SURFACES BY MOIST CURING WITH FORMS IN PLACE FOR FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED. IF FORMS ARE REMOVED, CONTINUE CURING BY MEMBRANE-CURING COMPOUND, MOISTURE-RETAINING COVER; OR WATER SPRAY AND MOISTURE-RETAINING COVER.

GENERAL NOTES CONT.

4.16 FIELD QUALITY CONTROL
4.16.1 FIELD INSPECTION AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH ACI 301. PROVIDE FREE ACCESS TO WORK AND COOPERATE WITH APPOINTED FIRM.
4.16.2 SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
4.16.3 TESTS OF CEMENT AND AGGREGATES MAY BE PERFORMED TO ENSURE CONFORMANCE WITH SPECIFIED REQUIREMENTS.
4.16.4 THREE CONCRETE TEST CYLINDERS WILL BE TAKEN FOR EVERY 75 OR LESS CU YDS OF EACH CLASS OF CONCRETE PLACED.
4.16.5 ONE ADDITIONAL TEST CYLINDER WILL BE TAKEN DURING COLD WEATHER CONCRETING, CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
4.16.6 ONE SLUMP TEST WILL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
4.17 PATCHING
4.17.1 ALLOW ENGINEER TO INSPECT CONCRETE SURFACES IMMEDIATELY UPON REMOVAL OF FORMS.
4.1.2 EXCESSIVE HONEYCOMB OR EMBEDDED DEBRIS IN CONCRETE IS NOT ACCEPTABLE. NOTIFY ENGINEER UPON DISCOVERY.
4.17.3 PATCH IMPERFECTIONS AS DIRECTED.
4.18 DEFECTIVE CONCRETE
4.18.1 DEFECTIVE CONCRETE: CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS, DIMENSIONS, TOLERANCES OR SPECIFIED REQUIREMENTS.
4.18.2 REPAIR OR REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY THE ENGINEER.
4.18.3 DO NOT PATCH, FILL, TOUCH-UP, REPAIR, OR REPLACE EXPOSED CONCRETE EXCEPT UPON EXPRESS DIRECTION OF ENGINEER FOR EACH INDIVIDUAL AREA.
4.19 THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE SYNTHETIC FIBER REINFORCING IN LIEU OF WELDED WIRE FABRIC FOR CONCRETE SLABS ON GRADE. THE SYNTHETIC FIBER REINFORCING SHALL BE ADDED TO THE CONCRETE MIX AT A MINIMUM RATE OF 1.5 LBS OF FIBER PER CUBIC YARD OF CONCRETE, OR AS SPECIFIED BY THE FIBER MANUFACTURER FOR CONTROL OF SHRINKAGE AND TEMPERATURE CRACKING, WHICHEVER IS GREATER. HOWEVER, THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR CRACKING OF ANY SLABS UTILIZING SYNTHETIC FIBERS IN LIEU OF WELDED WIRE FABRIC.

5.0 MASONRY GROUT

5.1 SUBMITTALS
5.1.1 INCLUDE DESIGN MIX, INDICATE WHETHER THE PROPORTION OR PROPERTY SPECIFICATION OF ASTM C270 IS TO BE USED, REQUIRED ENVIRONMENTAL CONDITIONS, AND ADMIXTURE LIMITATIONS.
5.1.2 REPORTS: SUBMIT REPORTS ON MORTAR INDICATING CONFORMANCE OF MORTAR TO PROPERTY REQUIREMENTS OF ASTM C270 AND TEST AND EVALUATION REPORTS TO ASTM C780.
5.1.3 REPORTS: SUBMIT REPORTS ON GROUT INDICATING CONFORMANCE OF COMPONENT GROUT MATERIALS TO REQUIREMENTS OF ASTM C476 AND TEST AND EVALUATION REPORTS TO ASTM C1019.
5.1.4 MANUFACTURER'S CERTIFICATE: CERTIFY THAT PRODUCTS AND ADMIXTURES MEET OR EXCEED SPECIFIED REQUIREMENTS.
5.1.5 SUBMIT PREMIX MORTAR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5.2 QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH ACI 530 AND ACI 530.1.
5.3 DELIVER, STORE AND PROTECT PRODUCTS ON SITE. MAINTAIN PACKAGED MATERIALS CLEAN, DRY, AND PROTECTED AGAINST DAMPNESS, FREEZING, AND FOREIGN MATTER.
5.4 ENVIRONMENTAL REQUIREMENTS
5.4.1 COLD WEATHER REQUIREMENTS: IMIAC-RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION.
5.4.2 MAINTAIN MATERIALS AND SURROUNDING AIR TEMPERATURE TO MAXIMUM 90 DEGREES F (32 DEGREES C) PRIOR TO, DURING, AND 48 HOURS AFTER COMPLETION OF MASONRY WORK.
5.5 MATERIALS
5.5.1 PREMIX MORTAR: ASTM C387, TYPE S, USING GRAY COLOR CEMENT.
5.5.2 MORTAR AGGREGATE: ASTM C144, STANDARD MASONRY TYPE.
5.5.3 HYDRATED LIME: ASTM C207, TYPE S OR M.
5.5.4 WATER: CLEAN AND POTABLE.
5.5.5 BONDING AGENT: EPOXY TYPE.
5.6 MORTAR MIXES
5.6.1 MORTAR FOR LOAD BEARING WALLS AND PARTITIONS: ASTM C270, TYPE S USING THE PROPORTION SPECIFICATION.
5.6.2 MORTAR FOR NON-LOAD BEARING WALLS AND PARTITIONS: ASTM C270, TYPE S USING THE PROPORTION SPECIFICATION.
5.7 MORTAR MIXING
5.7.1 THOROUGHLY MIX MORTAR INGREDIENTS IN ACCORDANCE WITH ASTM C270 IN QUANTITIES NEEDED FOR IMMEDIATE USE.
5.8 GROUT MIXING
5.8.1 MIX GROUT IN ACCORDANCE WITH ASTM C94.
5.8.2 ADD ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS; MIX UNIFORMLY.
5.8.3 DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF GROUT.
5.9 MIX TESTS
5.9.1 TESTING OF MORTAR MIX: IN ACCORDANCE WITH ASTM C780 FOR COMPRESSIVE STRENGTH, CONSISTENCY, MORTAR AGGREGATE RATIO, WATER CONTENT, AIR CONTENT AND SPLITTING TENSILE STRENGTH.

6.0 REINFORCED CMU MASONRY

6.1 SUBMITTALS
6.1.1 SHOP DRAWINGS: INDICATE BARS SIZES, SPACINGS, LOCATIONS, REINFORCEMENT QUANTITIES, BENDING AND CUTTING SCHEDULES, SUPPORTING AND SPACING DEVICES FOR REINFORCEMENT AND ACCESSORIES.
6.1.2 PRODUCT DATA: PROVIDE DATA FOR MASONRY UNITS FABRICATED WIRE REINFORCEMENT AND ADMIXTURES.
6.1.3 DESIGN DATA: INDICATE REQUIRED MORTAR STRENGTH, MASONRY UNIT ASSEMBLY STRENGTH IN ALL PLANES AND SUPPORTIVE TEST DATA.
6.1.4 MANUFACTURER'S CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
6.2 QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH ACI 530 AND ACI 530.1.
6.3 QUALIFICATIONS
6.3.1 MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
6.4 REGULATORY REQUIREMENTS: CONFORM TO APPLICABLE UL ASSEMBLY REQUIREMENTS FOR FIRE RATED MASONRY CONSTRUCTION.
6.5 DELIVERY, STORAGE, AND HANDLING
6.5.1 DELIVER, STORE, AND PROTECT PRODUCTS ON SITE.
6.5.2 MAINTAIN MATERIALS CLEAN, DRY AND PROTECTED AGAINST DAMAGE AND DAMPNESS.
6.6 ENVIRONMENTAL REQUIREMENTS
6.6.1 COLD WEATHER REQUIREMENTS: IMIAC-RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION.
6.6.2 MAINTAIN MATERIALS AND SURROUNDING AIR TEMPERATURE TO MAXIMUM 90 DEGREES F (32 DEGREES C) PRIOR TO, DURING, AND 48 HOURS AFTER COMPLETION OF MASONRY WORK.
6.7 COORDINATE THE MASONRY WORK WITH INSTALLATION OF WINDOW ANCHORS AND EMBEDDED ITEMS.
6.8 CONCRETE MASONRY UNITS
6.8.1 HOLLOW LOAD BEARING BLOCK UNITS (CMU): ASTM C90, TYPE II - NON-MOISTURE CONTROLLED; NORMAL WEIGHT, NET COMPRESSIVE STRENGTH OF MASONRY (F'M) = 1900 PSI.
6.8.2 SIZE AND SHAPE: NOMINAL MODULAR SIZE OF 8X8X16 INCHES. PROVIDE SPECIAL UNITS FOR 90 DEGREE CORNERS, BOND BEAMS AND LINTELS.
6.9 REINFORCEMENT AND ANCHORAGE
6.9.1 SINGLE WYTHE JOINT REINFORCEMENT: TRUSS TYPE; STEEL WIRE, HOT DIP GALVANIZED TO ASTM A641 CLASS 3 AFTER FABRICATION, COLD DRAWN STEEL WIRE CONFORMING TO ASTM A82, CROSS TIES. STANDARD DUR-O-WALL OR APPROVED EQUAL.
6.9.2 REINFORCING STEEL: ASTM A615, 60 KSI YIELD GRADE, DEFORMED BILLET BARS.
6.10 PREPARATION
6.10.1 DIRECT AND COORDINATE PLACEMENT OF METAL ANCHORS SUPPLIED TO OTHER SECTIONS.
6.10.2 PROVIDE TEMPORARY BRACING DURING INSTALLATION OF MASONRY WORK. MAINTAIN IN PLACE UNTIL BUILDING STRUCTURE PROVIDES PERMANENT BRACING.
6.11 COURSING
6.11.1 ESTABLISH LINES, LEVELS, AND COURSING INDICATED. PROTECT FROM DISPLACEMENT.
6.11.2 MAINTAIN MASONRY COURSES TO UNIFORM DIMENSION. FORM VERTICAL AND HORIZONTAL JOINTS OF UNIFORM THICKNESS.
6.11.3 CMU BOND: RUNNING.
6.11.4 CMU COURSING: ONE UNIT AND ONE MORTAR JOINT TO EQUAL 8 INCHES.
6.11.5 CMU MORTAR JOINTS: CONCAVE AT EXPOSED INTERIOR SURFACES. FLUSH AT ALL OTHER LOCATIONS.
6.12 PLACING AND BONDING
6.12.1 LAY SOLID MASONRY UNITS IN FULL BED OF MORTAR, WITH FULL HEAD JOINTS, UNIFORMLY JOINTED WITH OTHER WORK.
6.12.2 LAY HOLLOW MASONRY UNITS WITH FACE SHELL BEDDING ON HEAD AND BED JOINTS.
6.12.3 BUTTERING CORNERS OF JOINTS OR EXCESSIVE FURROWING OF MORTAR JOINTS ARE NOT PERMITTED.
6.12.4 REMOVE EXCESS MORTAR AS WORK PROGRESSES.
6.12.5 INTERLOCK INTERSECTIONS AND EXTERNAL CORNERS.
6.12.6 DO NOT SHIFT OR TAP MASONRY UNITS AFTER MORTAR HAS ACHIEVED INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE MORTAR AND REPLACE.
6.12.7 PERFORM JOB SITE CUTTING OF MASONRY UNITS WITH PROPER TOOLS TO PROVIDE STRAIGHT, CLEAN, UNCHIPPED EDGES. PREVENT BROKEN MASONRY UNIT CORNERS OR EDGES.
6.12.8 ISOLATE MASONRY PARTITIONS FROM VERTICAL STRUCTURAL FRAMING MEMBERS WITH A CONTROL JOINT.
6.12.9 ISOLATE TOP JOINT OF MASONRY PARTITIONS FROM HORIZONTAL STRUCTURAL FRAMING MEMBERS AND SLABS OR DECKS WITH COMPRESSIBLE JOINT FILLER.
6.13 REINFORCEMENT AND ANCHORAGE
6.13.1 INSTALL HORIZONTAL JOINT REINFORCEMENT 16 INCHES ON CENTER ALONG VERTICAL PLANE OF WALL.
6.13.2 PLACE MASONRY JOINT REINFORCEMENT IN FIRST AND SECOND HORIZONTAL JOINTS ABOVE AND BELOW OPENINGS. EXTEND MINIMUM 16 INCHES EACH SIDE OF OPENING.
6.13.3 PLACE JOINT REINFORCEMENT CONTINUOUS IN FIRST JOINT BELOW TOP OF WALLS.
6.13.4 LAP JOINT REINFORCEMENT ENDS MINIMUM 6 INCHES.
6.13.5 SUPPORT AND SECURE REINFORCING BARS FROM DISPLACEMENT. MAINTAIN POSITION WITHIN 1/2 INCH OF DIMENSIONED POSITION.
6.13.6 EMBED ANCHORS EMBEDDED IN CONCRETE ATTACHED TO STRUCTURAL STEEL MEMBERS. EMBED ANCHORAGES IN EVERY SECOND BLOCK JOINT.
6.14 LINTELS
6.14.1 INSTALL PRECAST CONCRETE LINTELS OVER OPENINGS AND AS SHOWN ON DRAWINGS.
6.14.2 SUPPORT AND SECURE REINFORCING BARS FROM DISPLACEMENT. MAINTAIN POSITION WITHIN 1/2 INCH OF DIMENSIONED POSITION.
6.14.3 PLACE AND CONSOLIDATE GROUT FILL WITHOUT DISPLACING REINFORCING.
6.14.4 ALLOW MASONRY LINTELS TO ATTAIN SPECIFIED STRENGTH BEFORE REMOVING TEMPORARY SUPPORTS. MAINTAIN MINIMUM 8 INCH BEARING ON EACH SIDE OF OPENING.
6.15 GROUTED COMPONENTS
6.15.1 LAP SPLICES MINIMUM 48 BAR DIAMETERS U.O.N..
6.15.2 SUPPORT AND SECURE REINFORCING BARS FROM DISPLACEMENT. MAINTAIN POSITION WITHIN 1/2 INCH OF DIMENSIONED POSITION.
6.15.3 PLACE AND CONSOLIDATE GROUT FILL WITHOUT DISPLACING REINFORCING.
6.15.4 AT BEARING LOCATIONS, FILL MASONRY CORES WITH GROUT FOR A MINIMUM 8 INCHES EITHER SIDE OF OPENING.
6.16 ENGINEERED MASONRY
6.16.1 LAY MASONRY UNITS WITH CORE CELLS VERTICALLY ALIGNED AND CAVITIES BETWEEN WYTHES CLEAR OF MORTAR AND UNOBSTRUCTED.
6.16.2 PLACE MORTAR IN MASONRY UNIT BED JOINTS BACK 1/4 INCH FROM EDGE OF UNIT GROUT SPACES, BEVEL BACK AND UPWARD. PERMIT MORTAR TO CURE 7 DAYS BEFORE PLACING GROUT.
6.16.3 REINFORCE MASONRY UNIT CORES AND CAVITIES WITH REINFORCEMENT BARS AND GROUT AS INDICATED.
6.16.4 RETAIN VERTICAL REINFORCEMENT IN POSITION AT TOP AND BOTTOM OF CELLS AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
6.16.5 GROUT SPACES LESS THAN 2 INCHES IN WIDTH WITH FINE GROUT USING LOW LIFT GROUTING TECHNIQUES.
6.16.6 GROUT SPACES 2 INCHES OR GREATER IN WIDTH WITH COURSE GROUT USING HIGH OR LOW LIFT GROUTING TECHNIQUES.
6.16.7 WHEN GROUTING IS STOPPED FOR MORE THAN ONE HOUR, TERMINATE GROUT 1-1/2 INCH BELOW TOP OF UPPER MASONRY UNIT TO FORM A POSITIVE KEY FOR SUBSEQUENT GROUT PLACEMENT.
6.16.8 LOW LIFT GROUTING: PLACE FIRST LIFT OF GROUT TO A HEIGHT OF 16 INCHES AND ROD FOR GROUT CONSOLIDATION. PLACE SUBSEQUENT LIFTS IN 8 INCH INCREMENTS AND ROD FOR GROUT CONSOLIDATION.
6.16.9 HIGH LIFT GROUTING: PROVIDE CLEANOUT OPENING NO LESS THAN 4 INCHES HIGH AT THE BOTTOM OF EACH CELL TO BE GROUTED BY CUTTING ONE FACE SHELL OF MASONRY UNIT.
6.16.10 CLEAN OUT MASONRY CELLS AND CAVITIES WITH HIGH PRESSURE WATER SPRAY. PERMIT COMPLETE WATER DRAINAGE.
6.17 REQUEST INSPECTION FOR CELLS AND CAVITIES FROM OWNER'S REPRESENTATIVE. ALLOW 3 DAYS ADVANCE NOTICE OF INSPECTION PRIOR TO COMMENCEMENT OF WORK. DO NOT PROCEED WITH WORK UNTIL INSPECTION HAS BEEN COMPLETED AND WORK APPROVED.
6.18 AFTER CLEANING AND CELL INSPECTION, SEAL OPENINGS WITH MASONRY UNITS. PUMP GROUT INTO SPACES. MAINTAIN WATER CONTENT IN GROUT TO INTENDED SLUMP WITHOUT AGGREGATE SEGREGATION.
6.19 LIMIT GROUT LIFT TO 60 INCHES AND ROD FOR GROUT CONSOLIDATION. WAIT 30 TO 60 MINUTES BEFORE PLACING NEXT LIFT.
6.20 CONTROL JOINTS
6.20.1 DO NOT CONTINUE HORIZONTAL JOINT REINFORCEMENT THROUGH CONTROL JOINTS.
6.20.2 INSTALL PREFORMED CONTROL JOINT DEVICE IN CONTINUOUS LENGTHS. SEAL BUTT AND CORNER JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6.21 BUILT-IN WORK
6.21.1 AS WORK PROGRESSES, INSTALL BUILT-IN METAL DOOR AND GLAZED FRAMES, FABRICATED METAL FRAMES, WINDOW FRAMES, WOOD NAILING STRIPS, ANCHOR BOLTS, PLATES, AND OTHER ITEMS TO BE BUILT-IN THE WORK AND FURNISHED BY OTHER SECTIONS.
6.21.2 INSTALL BUILT-IN ITEMS PLUMB AND LEVEL.
6.21.3 BED ANCHORS OF METAL DOOR AND GLAZED FRAMES IN ADJACENT MORTAR JOINTS. FILL FRAME VOIDS SOLID WITH GROUT. FILL ADJACENT MASONRY CORES WITH GROUT MINIMUM 8 INCHES FROM FRAMED OPENINGS.
6.21.4 DO NOT BUILD IN ORGANIC MATERIALS SUBJECT TO DETERIORATION.
6.22 TOLERANCES
6.22.1 MAXIMUM VARIATION FROM ALIGNMENT OF COLUMNS: 1/4 INCH.
6.22.2 MAXIMUM VARIATION FROM UNIT TO ADJACENT UNIT: 1/16 INCH.
6.22.3 MAXIMUM VARIATION FROM PLANE OF WALL: 1/4 INCH IN 10 FT AND 1/2 INCH IN 20 FT OR MORE.
6.22.4 MAXIMUM VARIATION FROM PLUMB: 1/4 INCH PER STORY NON-CUMULATIVE; 1/2 INCH IN TWO STORIES OR MORE.
6.22.5 MAXIMUM VARIATION FROM LEVEL COURSING: 1/8 INCH IN 3 FT AND 1/4 INCH IN 10 FT; 1/2 INCH IN 30 FT.
6.22.6 MAXIMUM VARIATION OF JOINT THICKNESS: 1/8 INCH IN 3 FT.
6.23 CUTTING AND FITTING
6.23.1 CUT AND FIT FOR CHASES, PIPES, CONDUIT, SLEEVES, GROUNDS AND EMBEDS. COORDINATE WITH OTHER SECTIONS OF WORK TO PROVIDE CORRECT SIZE, SHAPE, AND LOCATION.
6.23.2 OBTAIN APPROVAL PRIOR TO CUTTING OR FITTING MASONRY WORK NOT INDICATED OR WHERE APPEARANCE OR STRENGTH OF MASONRY WORK MAY BE IMPAIRED.
6.24 CLEANING
6.24.1 REMOVE EXCESS MORTAR AND MORTAR SMEARS AS WORK PROGRESSES.
6.24.2 REPLACE DEFECTIVE MORTAR. MATCH ADJACENT WORK.
6.24.3 CLEAN SOILED SURFACES WITH CLEANING SOLUTION.
6.24.4 USE NON-METALLIC TOOLS IN CLEANING OPERATIONS.
6.25 PROTECTION OF FINISHED WORK
6.25.1 WITHOUT DAMAGING COMPLETED WORK, PROVIDE PROTECTIVE BOARDS AT EXPOSED EXTERNAL CORNERS
6.25.2 WHICH MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.

10.0 RETRO-FIT ANCHORS

10.1 ALL POST-INSTALLED ANCHORS SHALL BE EPOXY ADHESIVE TYPE WITH A307 OR A36 THREADED ROD, U.O.N. BRAND AND TYPE OF EPOXY ADHESIVE SHALL BE SIMPSON SET EPOXY. OR HILTI HIT HY 150 EPOXY. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD. EVALUATION OF SUBSTITUTION REQUESTS WILL INVOLVE ADDITIONAL ENGINEERING TIME, AND POSSIBLE REDESIGN OF CONNECTIONS, WHICH WILL AFFECT OTHER TRADES.
10.2 INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS. ALL DRILLED HOLE PREPARATIONS REQUIRED TO ACHIEVE FULL DESIGN STRENGTH SHALL BE FOLLOWED.
10.3 NO LOAD SHALL BE APPLIED TO EPOXY ANCHORS PRIOR TO FULL CURE TIME SPECIFIED BY MANUFACTURER.
10.4 EMBEDMENT DEPTH OF ANCHORS SHALL BE A MINIMUM AS SPECIFIED ON DRAWINGS; OR IF NOT SHOWN ON DRAWING, EMBED DEPTH SHALL BE AS SPECIFIED BY EPOXY MANUFACTURER TO DEVELOP THE MAXIMUM PUBLISHED BOND STRENGTH.

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CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY CONSTRUCTION. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR ANY DIMENSIONS.

THE STRUCTURES GROUP IS RESPONSIBLE FOR PROPOSED CHANGES TO ORIGINAL STRUCTURE SHOWN ON THESE PAGES ONLY. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR EXISTING STRUCTURAL COMPONENTS.

To the best of the engineer's knowledge, the plans and specifications comply with the minimum requirements of The Florida Building Code. (5th Edition)

Plans and specifications comply with the Florida building code, section 1609 for 145 mph wind zone (5th Edition)

This drawing is valid for 12 months after the date it is signed and sealed or until the requirements of the 5th edition of the Florida Building Code is changed.

This drawing is signed and sealed for the structural portions of the drawing only. Architectural, electrical, or mechanical details, if shown, are for visual reference only and are not covered under this seal.

REV.	DATE & COMMENTS	BY

STRUCTURAL NOTES
FBC 5TH EDITION
Florida

JOB NUMBER :	20170290
DATE :	MAY 26, 2017
DRAWN BY :	MWB
SCALE :	

SHEET NUMBER
S2.0

SIGN & SEAL

Dr. Nick M. Bradford, P.E. S.E. S.I.
FL. Reg. #52585

12.0 STRUCTURAL STEEL

12.1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

12.2 FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC "SPECIFICATIONS" FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", 9th EDITION OF THE ALLOWABLE STRESS DESIGN.

12.3 MATERIAL SPECIFICATIONS:

- ALL STEEL SHALL BE PRODUCED DOMESTICALLY.
- ROLLED SHAPES, PLATES AND BARS: ASTM A36 EXCEPT WIDE FLANGE SECTIONS SHALL BE ASTM A572.
- PIPE: ASTM A53, TYPE E, GRADE B.
- TUBES: ASTM A500 GRADE B.
- ANCHOR BOLTS, RODS, NUTS AND WASHERS: ASTM A36
- HEADED STUDS: ASTM A108 GRADE 1015 THROUGH 1020, COLD FINISHED CARBON STEEL, AWS D1.1, TYPE B.
- BOLTED STRUCTURAL CONNECTIONS: UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE 3/4"~ ASTM A325, TYPE N BOLTS INDICATED LESS THAN 5/8"~ SHALL BE ASTM A307.
- WELDED CONNECTIONS: ELECTRODES – E70XX UNO (LOW HYDROGEN). FILLET WELDS SHALL BE 3/16" UNO.

12.4 HIGH-STRENGTH FIELD BOLTED CONNECTIONS SHALL BE INSTALLED, TIGHTENED, TESTED AND INSPECTED ACCORDING TO "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC). CONNECTIONS SHALL NOT BE CLASSIFIED AS SLIP-CRITICAL (SC) UNLESS INDICATED ON PLANS AS SUCH. "SNUG-TIGHT" AS DEFINED IN THE SPECIFICATION IS SUFFICIENT FOR ALL BOLTED CONNECTIONS UNLESS THE BOLTS IN SUCH A CONNECTION ARE INDICATED AS SLIP CRITICAL (SC). SLIP CRITICAL BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION.

12.5 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.

12.6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

12.7 GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT. (5000 PSI MIN)

12.8 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.

12.9 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. STRUCTURAL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT AREAS THAT WILL RECEIVE SPRAY-ON FIRE PROTECTION SHOULD NOT BE PRIMED.

145 ENCLOSED EXP C Allowable Stress Design

THIS PLAN HAS BEEN DESIGNED TO COMPLY WITH ALL PROVISIONS OF FBC-2014 INCLUSIVE OF ASCE 7-10 WIND PROVISIONS FOR A NOMINAL DESIGN 3-SECOND GUST OF 145 MPH (V_{ULT}) OR 112 MPH (V_{ASD}). AS DEFINED IN SECTION 1609, THIS STRUCTURE DOES MEET THE REQUIREMENTS FOR AN ENCLOSED BUILDING AND AS SUCH HAS BEEN DESIGNED WITH AN INTERNAL PRESSURE COEFFICIENT OF +0.18 AND -0.18, UNADJUSTED FOR ZONES 1, 2 AND 3. DESIGN HAS UTILIZED A WIND IMPORTANCE FACTOR OF 1.00 FOR RISK CATEGORY II IN AN EXPOSURE C AREA WITH A MEAN ROOF HEIGHT OF 30 FEET AND COMPLIES WITH WIND SPEED MAPS AS ADOPTED BY THE LOCAL JURISDICTION.

ALL STRUCTURAL MEMBERS IN THIS BUILDING HAVE BEEN DESIGNED USING ALLOWABLE STRESS DESIGN METHODS. AS SUCH V_{ASD} HAS BEEN USED TO DEVELOP WIND PRESSURES.

ALL BUILDINGS WITHIN WINDBORNE DEBRIS AREAS (V_{ULT} > 130 MPH AND < 1 MILE OF COASTLINE, ALL AREAS WHERE V_{ULT} > 140 MPH) REQUIRE WIND DEBRIS IMPACT PROTECTION FOR ALL WINDOWS, DOORS AND BUILDING ENVELOP COMPONENTS.

DESIGN WIND PRESSURE (PSF)

Zone 4	Effective Wind Area	Ultimate Wind Speed 145 MPH 3-sec. Gust		Zone 5	Effective Wind Area	Ultimate Wind Speed 145 MPH 3-sec. Gust	
	SQ FT	+	-		SQ FT	+	-
(W)	<10	33.3	36.1	(W)	<10	33.3	44.7
	20	31.8	34.6		20	31.8	41.6
	50	29.8	32.6		50	29.8	37.7
	100	28.3	31.1		100	28.3	34.6
	500	24.8	27.7		500	24.8	27.7
	GARAGE DOOR	9'-0" WIDE	7'-0" HEIGHT			31.9	36.1
		16'-0" WIDE	7'-0" HEIGHT			30.5	34.0
ROOF WIND ZONES DESIGN PRESSURES FOR THE ROOF ZONES ARE TAKEN FROM THE MOST CONSERVATIVE CASE. (INCLUDING ROOF SLOPE, EFFECTIVE AREA AND OVERHANG CONDITIONS)					ZONE 1	30.5	33.3
					ZONE 2	30.5	55.9
					ZONE 3	30.5	84.1

PRESSURE ZONE NOTES:

1. WALL COMPONENTS; ANY COMPONENT/CLADDING (WINDOW, DOOR, ETC..) WHICH IS WITHIN 8'-0" OF A BUILDING CORNER, SHALL BE CONSIDERED ZONE 5 PER THE CHART ABOVE (UNLESS CLASSIFIED OTHERWISE ON THE FRAMING PLAN). ALL OTHER COMPONENTS SHALL BE CONSIDERED WIND ZONE 4 PER THE CHART ABOVE.
2. ROOF COMPONENTS; ANY ROOF COMPONENT/CLADDING WHICH IS WITHIN 8'-0" OF A BUILDING CORNER SHALL BE CONSIDERED ZONE 3 PER THE CHART ABOVE. ANY ROOF COMPONENT/CLADDING WHICH IS WITHIN 8'-0" OF THE ROOF EDGE SHALL BE CONSIDERED WIND ZONE 2. ALL OTHER AREAS OF THE ROOF SHALL BE CONSIDERED WIND ZONE 1 PER THE CHART ABOVE.
3. INTERPOLATION OF THE DESIGN PRESSURES LISTED ABOVE SHALL BE PERMITTED, BASED ON THE COMPONENT AREA. OTHERWISE, ROUND COMPONENT AREA DOWN TO THE SMALLER AREA LISTED ABOVE.

– DESIGN PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF EXTERNAL AND INTERNAL PRESSURES) APPLIED NORMAL TO ALL SURFACES. COMPONENT MANUFACTURER SHALL USE THE HIGHER OF THE TWO NUMBERS FOR APPLICABLE SQUARE FOOTAGE.

SS5 EXTENSIONS

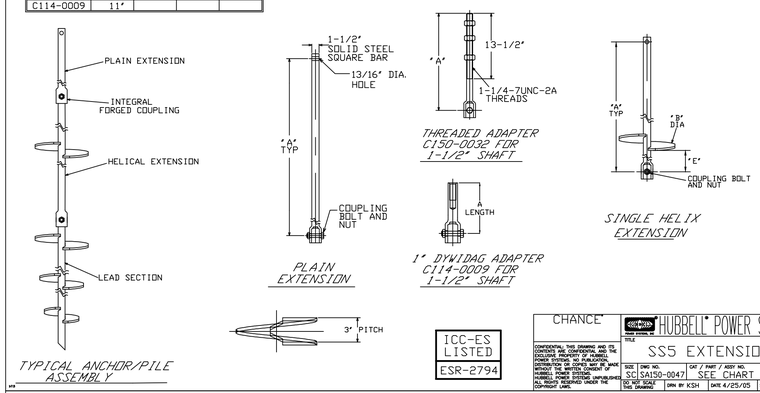
TORQUE STRENGTH RATING – 5,700 FT-LB
ULTIMATE CAPACITY*(TENSION/COMPRESSION)-57 KIP
* BASED ON A TORQUE FACTOR (K±)=10
PER ICC-ES AC358 SECTION 3.13.2
NOMINAL TENSION STRENGTH (COUPLING BOLT)-70 KIP

EXTENSION

CAT. NO.	"A"	"B"	"C"	ICC-ES LISTED ESR-2794
C150-0159	57-1/2"	12"	27-1/2"	X
C150-0166	37-3/4"	14"	27-3/4"	X
C150-0167	57-1/2"	14"	27-1/2"	
C150-0158	58"	10"	8"	
T150-0440	59"	14"	4"	
C150-0047	37-3/4"			X
C150-0008	57-1/2"			X
C150-0009	80-1/2"			X
C150-0048	120"			X
C150-0032	20"			
C114-0009	11"			

-NOTES-

1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REV.)
2. LEAD AND EXTENSION SECTION AND PILOT POINT LENGTHS ARE NOMINAL.
3. SHAFT MATERIAL-HOT ROLLED ROUND-CORNERED-SQUARE (RCS) SOLID STEEL BARS PER ASTM A29; MINIMUM YIELD STRENGTH=70 KSI.
4. COUPLING BOLTS: 3/4" DIAMETER X 3" LONG HEX HEAD PER ASTM A325 TYPE1.
5. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
6. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
7. SEE ICC EVALUATION SERVICE INC., EVALUATION REPORT NO. ESR-2794 FOR NOMINAL, DESIGN, AND ALLOWABLE STRENGTH VALUES AND/OR CONDITIONS OF USE CONCERNING INFORMATION PRESENTED ON THIS DRAWING.
8. REFER TO SA150-0001 DRAWING FOR LEAD SECTIONS AND HELICAL EXTENSIONS.



ICC-ES LISTED ESR-2794

CHANCE® HUBBELL® POWER SYSTEMS
TITLE SS5 EXTENSIONS
SIZE SC | DWG NO. SA150-0047 | CAT / PART / ASSY NO. SEE CHART | REV E
DO NOT SCALE THIS DRAWING | DRN BY KSH | DATE 4/25/05 | SHEET 2/2

SS5 HELICAL PILES AND ANCHORS

TORQUE STRENGTH RATING-5,700 FT-LB
ULTIMATE CAPACITY* (TENSION/COMPRESSION)-57 KIP
*BASED ON A TORQUE FACTOR (K±)=10
PER ICC-ES AC358 SECTION 3.13.2
NOMINAL TENSION STRENGTH (COUPLING BOLT)-70 KIP

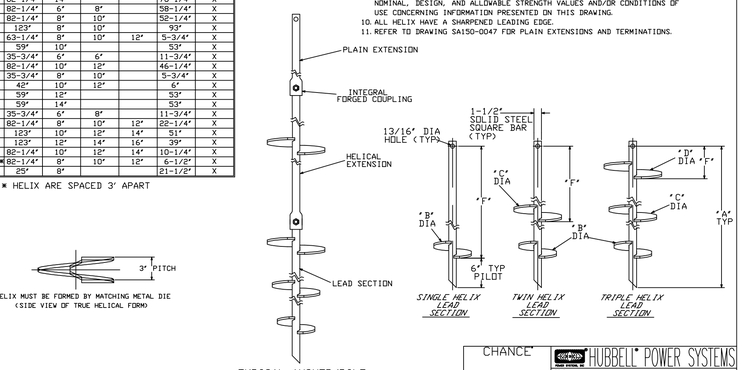
LEAD SECTION

CAT. NO.	"A"	"B"	"C"	"D"	"F"	ICC-ES LISTED ESR-2794
C150-0001	82-1/4"	8"			76-1/4"	X
C150-0002	59"	8"			53"	X
C150-0003	82-1/4"	10"			76-1/4"	X
C150-0004	82-1/4"	12"			76-1/4"	X
C150-0005	82-1/4"	14"			76-1/4"	X
C150-0030	82-1/4"	6"	8"		58-1/4"	X
C150-0006	82-1/4"	8"	10"		52-1/4"	X
C150-0031	123"	8"	10"		93"	X
C150-0007	63-1/4"	8"	10"	12"	5-3/4"	X
C150-0058	59"	10"			53"	X
T150-0086	35-3/4"	6"	6"		11-3/4"	X
C150-0051	82-1/4"	10"	12"		46-1/4"	X
C150-0160	35-3/4"	8"	10"		5-3/4"	X
C150-0161	42"	10"	12"		6"	X
C150-0242	59"	12"			53"	X
C150-0243	59"	14"			53"	X
C150-0244	35-3/4"	6"	8"		11-3/4"	X
C150-0397	82-1/4"	8"	10"	12"	22-1/4"	X
C150-0398	123"	10"	12"	14"	51"	X
C150-0399	123"	12"	14"	16"	39"	X
C150-0489	82-1/4"	10"	12"	14"	10-1/4"	X
T150-0000*	82-1/4"	8"	10"	12"	6-1/2"	X
C150-0156	85"	8"			21-1/2"	X

* HELIX ARE SPACED 3' APART

-NOTES-

1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REV.)
2. LEAD AND EXTENSION SECTION AND PILOT POINT LENGTHS ARE NOMINAL. PILOT FOR T150-0000 AND C150-0156 IS 3.75" AND 2.5" RESPECTIVELY.
3. SHAFT MATERIAL-HOT ROLLED ROUND-CORNERED SQUARE (RCS) SOLID STEEL BARS PER ASTM A29; MINIMUM YIELD STRENGTH=70 KSI.
4. HELIX MATERIAL-HOT ROLLED LOW CARBON STEEL SHEET, STRIP, OR PLATE PER ASTM A572, OR A1018, OR A656; MINIMUM YIELD STRENGTH=50 KSI; 3/8" THICK.
5. COUPLING BOLTS: 3/4" DIAMETER X 3" LONG HEX HEAD PER ASTM A325 TYPE 1.
6. NOMINAL SPACING BETWEEN HELICAL PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
7. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
8. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
9. SEE ICC EVALUATION SERVICE INC., EVALUATION REPORT NO. ESR-2794 FOR NOMINAL, DESIGN, AND ALLOWABLE STRENGTH VALUES AND/OR CONDITIONS OF USE CONCERNING INFORMATION PRESENTED ON THIS DRAWING.
10. ALL HELIX HAVE A SHARPENED LEADING EDGE.
11. REFER TO DRAWING SA150-0047 FOR PLAIN EXTENSIONS AND TERMINATIONS.

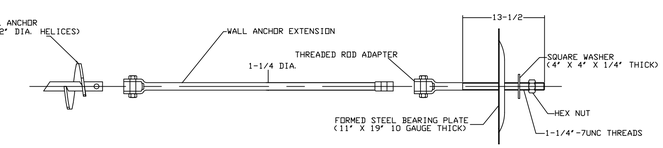


HELIX MUST BE FORMED BY MATCHING METAL DIE (SIDE VIEW OF TRUE HELICAL FORM)

ICC-ES LISTED ESR-2794

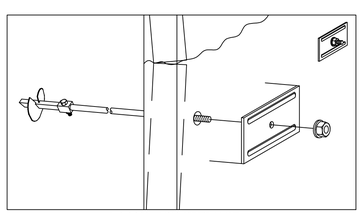
CHANCE® HUBBELL® POWER SYSTEMS
TITLE SS5 LEADS AND HELICAL EXTENSIONS
SIZE SC | DWG NO. SA150-0001 | CAT / PART / ASSY NO. SEE CHART | REV M
DO NOT SCALE THIS DRAWING | DRN BY KSH | DATE 4/25/05 | SHEET 1/2

HELICAL WALL ANCHOR KITS AND COMPONENTS



WALL ANCHOR KITS AND COMPONENTS

CATALOG NO.	DESCRIPTIONS	C150-0032 20" THREADED ADAPTER	J2698 7'-11.25" EXTENSION	E150-0088 PLATE & WASHER ASSEMBLY	E150-0079 8" HELIX	E150-0252 10" HELIX	E150-0254 12" HELIX
T150-0080	8" KIT	X	X	X	X		
T150-0253	10" KIT	X	X	X		X	
T150-0255	12" KIT	X	X	X			X
T150-0447	48" THREADED ADAPTER						
12696	3.5" X 1.25 EXTENSION						
12697	5" X 1.25" EXTENSION						



TYPICAL INSTALLATION OF WALL ANCHOR KIT

-=NOTES=-

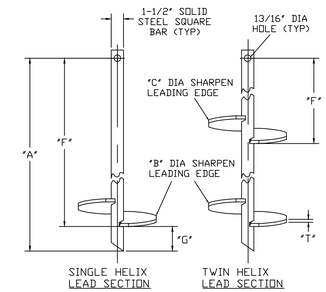
1. ALL PARTS HOT DIP GALVANIZED PER ASTM A153 (LATEST REVISION).
2. MAXIMUM INSTALLATION TORQUE IS 2300 FT-LBS, FOR 1-1/4" DIA. ROD.
3. FOR DETAILED INSTALLATION INSTRUCTION PLEASE REFER TO A.B. CHANCE BULLETIN 01-8908-LATEST REVISION.

CHANCE® HUBBELL® POWER SYSTEMS
TITLE WALL ANCHOR KIT
SIZE SC | DWG NO. SA150-0080 | CAT / PART / ASSY NO. SEE CHART | REV B
DO NOT SCALE THIS DRAWING | DRN BY KSH | DATE 4/26/05 | SHEET 1

SS5 HELICAL PIERS AND ANCHORS GRADE 80 HELIX

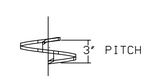
TORQUE STRENGTH RATING-5,500 FT-LB
ULTIMATE CAPACITY*(TENSION/COMPRESSION)-55 KIP
* BASED ON A TORQUE FACTOR (K±)=10
SINGLE HELIX ULTIMATE STRENGTH-40 KIP 3/8", 50 KIP 1/2"
ULTIMATE TENSION STRENGTH (COUPLING BOLT)-70 KIP

CAT. NO.	A	B	C	F	G	T
T150-0269	82"	8"	--	79"	3"	3/8"
T150-0268	59"	8"	--	56"	3"	3/8"
T150-0267	59"	10"	--	56"	3"	3/8"
T150-0266	82"	12"	--	79"	3"	3/8"
T150-0265	82"	8"	10"	55"	3"	3/8"
T150-0326	82"	10"	--	79"	3"	3/8"
T150-0442	59"	10"	12"	23"	6"	3/8"
T150-0443	59"	8"	10"	29"	6"	3/8"
T150-0469	42"	8"	--	39"	3"	3/8"
T150-0304	82"	8"	--	79"	3"	1/2"
T150-0305	59"	8"	--	56"	3"	1/2"
T150-0444	59"	8"	10"	17"	6"	1/2"
T1500495	59"	6"	--	56"	3"	1/2"
T1500497	59"	6"	--	56"	3"	3/8"



-NOTES-

1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REV.)
2. LEAD AND EXTENSION SECTION AND PILOT POINT LENGTHS ARE NOMINAL.
3. SHAFT MATERIAL-HOT ROLLED ROUND-CORNERED SQUARE (RCS) SOLID STEEL BARS PER ASTM A29; MINIMUM YIELD STRENGTH=70 KSI.
4. HELIX MATERIAL-HOT ROLLED LOW CARBON STEEL SHEET, STRIP, OR PLATE PER ASTM A656, OR A1018 GRADE 80; MINIMUM YIELD STRENGTH=80 KSI.
5. COUPLING BOLTS: 3/4" DIAMETER X 3" LONG HEX HEAD PER ASTM A325 TYPE 1,
6. NOMINAL SPACING BETWEEN HELICAL PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
7. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
8. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
9. REFER TO DRAWING SA150-0047 FOR PLAIN EXTENSIONS AND TERMINATIONS.



HELIX MUST BE FORMED BY MATCHING METAL DIE (SIDE VIEW OF TRUE HELICAL FORM)

CHANCE® HUBBELL® POWER SYSTEMS
TITLE LEAD, SECTION SLG80 - SS5
SIZE SC | DWG NO. SA150-0269 | CAT / PART / ASSY NO. SEE CHART | REV B
DO NOT SCALE THIS DRAWING | DRN BY KSH | DATE 4/25/05 | SHEET 1

The Structures Group, Inc.
Dr. Nick M. Bradford, P.E. S.E. S.I. LEEDAP
FL. Reg. #52585
1714 N. Armenia Avenue, #B
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NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS BEFORE CONSTRUCTION BEGINS. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS PROJECT ONLY. ANY DISCREPANCY BETWEEN FIELD CONDITIONS, OTHER DESIGN PROFESSIONALS' SHOP DRAWINGS, CONTRACTORS' BUILDING METHODS, AND THESE SIGNED AND SEALED DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY CONSTRUCTION. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR ANY DIMENSIONS.

THE STRUCTURES GROUP IS RESPONSIBLE FOR PROPOSED CHANGES TO ORIGINAL STRUCTURE SHOWN ON THESE PAGES ONLY. THE STRUCTURES GROUP IS NOT RESPONSIBLE FOR EXISTING STRUCTURAL COMPONENTS.

To the best of the engineer's knowledge, the plans and specifications comply with the minimum requirements of The Florida Building Code. (5th Edition)

Plans and specifications comply with the Florida building code, section 1609 for 145 mph wind zone (5th Edition)

This drawing is valid for 12 months after the date it is signed and sealed or until the requirements of the 5th edition of the Florida Building Code is changed.

This drawing is signed and sealed for the structural portions of the drawing only. Architectural, electrical, or mechanical details, if shown, are for visual reference only and are not covered under this seal.

REV.	DATE & COMMENTS	BY

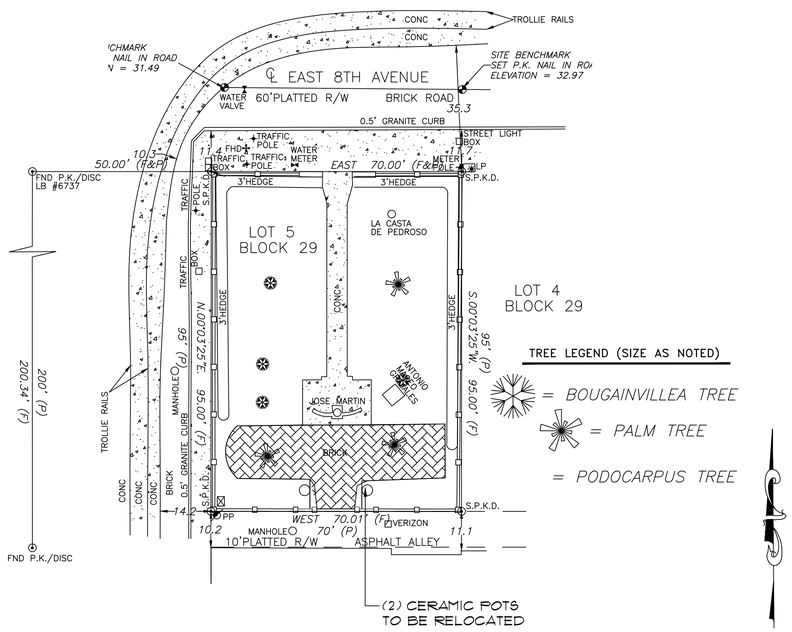
STRUCTURAL NOTES
FBC 5TH EDITION
Florida

JOB NUMBER :	20170290
DATE :	MAY 26, 2017
DRAWN BY :	MWB
SCALE :	

SHEET NUMBER
S3.0

SIGN & SEAL

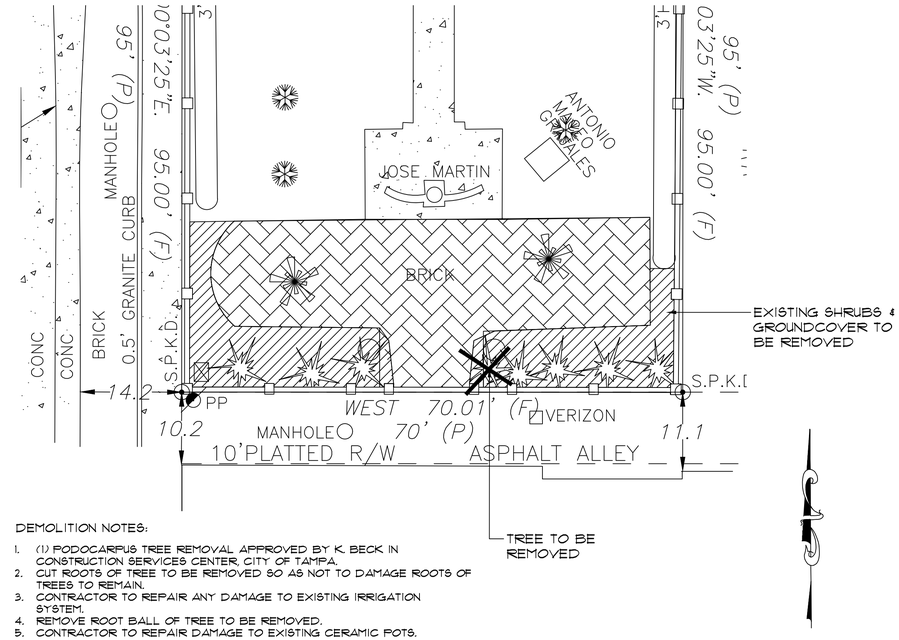
Dr. Nick M. Bradford, P.E. S.E. S.I.
FL. Reg. #52585



EXISTING CONDITIONS PLAN

SCALE: 1" = 20'

0 10 20 30
SCALE IN FEET



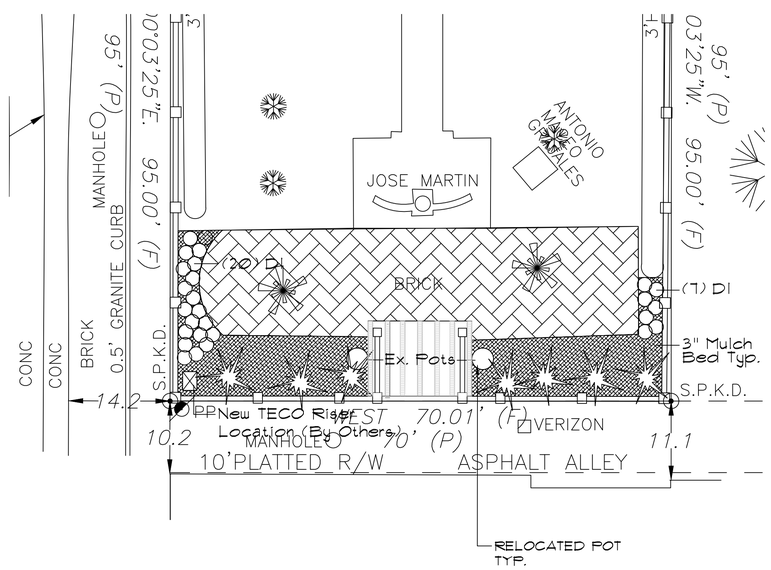
DEMOLITION NOTES:

1. (1) PODOCARPUS TREE REMOVAL APPROVED BY K. BECK IN CONSTRUCTION SERVICES CENTER, CITY OF TAMPA.
2. CUT ROOTS OF TREE TO BE REMOVED SO AS NOT TO DAMAGE ROOTS OF TREES TO REMAIN.
3. CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING IRRIGATION SYSTEM.
4. REMOVE ROOT BALL OF TREE TO BE REMOVED.
5. CONTRACTOR TO REPAIR DAMAGE TO EXISTING CERAMIC POTS.

LANDSCAPE DEMOLITION PLAN

SCALE: 1" = 10'

0 5 10 15
SCALE IN FEET



LANDSCAPE PLAN

SCALE: 1" = 10'

0 5 10 15
SCALE IN FEET

PLANT LIST:

SYM.	SCIENTIFIC NAME	COMMON NAME	QTY	SIZE	SPACING	COMMENTS
SHRUBS/ GRASSES/ GROUNDCOVERS •						
DI	Dietes iridioides	African Iris	27	1 gallon	24" o.c.	Min. 2' Ht. Full dense foliage.
ADDITIONAL ITEMS						
	Mini Pine Bark Mulch - Contractor to verify quantity			5 CY		3" deep in landscape beds to include ex. trees.
	Landscape Mix for Planting - Contractor to verify quantity.			14 CY		1/2 CY per shrub. 40%peat, 40% wood products, 20% compost.
	Agriform (20-10-5) Fertilizer Tablets, 21 gram			1 box		Apply per directions during planting installation.

• ALL MATERIAL TO BE APPROVED BY CITY REPRESENTATIVE PRIOR TO INSTALLATION.
• ALL MATERIAL TO BE FLORIDA GRADE #1 QUALITY.

OPERATION	90 DAY MAINTENANCE WEEKLY CYCLE	CITY OF TAMPA COMMITMENT ON YEARLY CYCLE
	1 2 3 4 / 5 6 7 8 / 9 10 11 12	JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
WATERING	7 7 7 7 / 4 4 4 4 / 2 2 2 2	
	Irrigation watering shall be performed each week of the 90 day maintenance period at the frequency indicated (see chart for Water Application Rates.) Saturate tree well completely.	City shall water once a week or as needed after the 90 day maintenace period (during drought periods) using City watering truck.
WEEDING/ LITTER PICKUP	X X X	Weeding every 14 days as indicated using an approved herbicide such as "Round Up" or equal applied at the rate of 1 1/2 oz. per gallon and applied by a licensed applicator or under the supervision of a licensed applicator. Litter pick up performed prior to application of herbicide.
	Contractor shall weed and pick up litter in all planting beds once in each four week period before the end of the 90 maintenance period.	
PRUNING	As needed to remove damaged branches. Contractor shall maintain State of Florida #1 grade to attain final acceptance.	Pruning shall be accomplished using chain saws, hand saws, and/or lopping shears. Trees shall retain a minimum clear trunk of 8'-6" height. Mature tree height overhanging travel lanes shall be maintained at 16'.
FERTILIZING	Trees, shrubs and groundcovers shall be fertilized when planted per Specifications.	Trees, shrubs and groundcovers to be fertilized annually per Specifications.
MOWING	Not applicable	Not applicable
EDGING	Not applicable	Not applicable
MULCHING	Mulch shall be applied immediately after planting of trees, shrubs and groundcovers. See Notes for mulch types/depth to be used.	Restore 3" layer of mulch once a year. See Notes for mulch types to be used.

IRRIGATION NOTES

Contact Mark Neuberger at 478-5280 to ensure that irrigation is functioning before and after plant material installation.

LANDSCAPE SCHEDULE & TECHNICAL MAINTENANCE PLAN

GENERAL NOTES

KEY NOTES

LANDSCAPE PLANS

CITY OF TAMPA
CONTRACT ADMINISTRATION DEPARTMENT
PLANNING AND DESIGN DIVISION

306 E. JACKSON STREET 4 NORTH
TAMPA, FLORIDA 33602
p: 813. 274. 8456 – f: 813. 274. 8080
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City Architect

Edward D. Rice, AIA
Project Architect

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Thomas A. Hester, Sr., AIA, NOMA
Project Architect

Kinsey C. Tillman
Drafting Technician

Jerry P. Sanders
Drafting Technician

Byron K. Thomas, LEED GA
Drafting Technician

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STRUCTURAL CONSULTANT

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TAMPA FL 33605

FILE NUMBER
X

PROJECT NUMBER
X

ISSUE DATE
FEBRUARY 10, 2017

DRAWN BY
CJP

REVISIONS
1 MODIFY WALL LOCATION 2017-5-23 MB

SEAL
MARGARET BORS, RLA

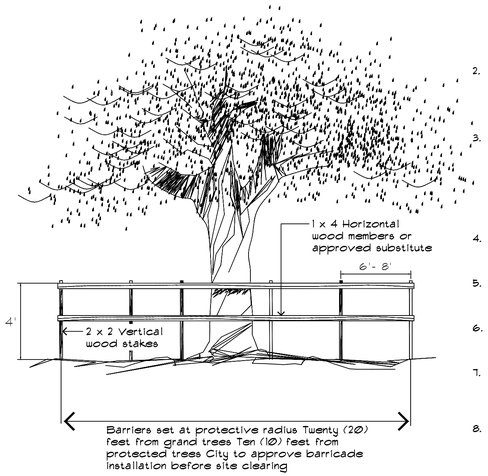
LANDSCAPE PLANS

SHEET NUMBER
LS-1

2 OF 3

NOTE TO CONTRACTOR:

1. REQUIRED TREE BARRICADES SHALL REMAIN INTACT THROUGHOUT CONSTRUCTION.
2. CONSTRUCTION PRACTICES MUST CONFORM TO THE ROOT PRUNING SPECIFICATIONS INCLUDED IN THE SPECIFICATIONS PACKAGE.



BARRICADE NOTES:

1. PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL PROTECTED TREES AND GRAND TREES DURING SITE CLEAING TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL LAND ALTERATION, SITE CLEARING, AND CONSTRUCTION ACTIVITIES ARE COMPLETE. BARRICADES FOR THE PROTECTIVE ROOT ZONE SHALL BE ERECTED A MINIMUM OF TEN (10) FEET FROM THE EDGE OF TRUNK OF PROTECTED TREES AND TWENTY (20) FEET FROM THE EDGE OF TRUNK OF GRAND TREES.
2. A MINIMUM DISTANCE OF TEN (10) FEET FROM ALL PROTECTED TREES AND TWENTY (20) FEET FROM ALL GRAND TREES SHALL BE MAINTAINTED WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A SOIL AUGER SHALL BE USED TO TUNNEL UNDER ROOT SYSTEMS.
3. INSTALLATION OF ARTIFICIAL BARRICADES SUCH AS PROTECTIVE BARRICADES, FENCES, POST OR WALLS SHALL NOT DESTROY OR ADVERSELY HARM THE ROOT SYSTEM OF PROTECTED TREES AND GRAND TREES. FOOTERS FOR WALLS SHALL START AT THE POINT WHERE LARGER ROOTS ARE ENCOUNTERED, AND THE ROOTS SHALL BE BRIDGED. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES AND GRAND TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
4. ALL ROOTS TO BE REMOVED DURING THE SITE CLEARING PROCESS SHALL BE SEVERED CLEAN AT THE PERIMETER OF THE PROTECTED ROOT ZONE BY A LICENCED CERTIFIED ARBORIST.
5. . A TWO-INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF THE EXPOSED ROOTS OF PREOTECTED TREES AND GRAND TREES DURING THE SITE CLEARING PROCESS.
6. A PROTECTIVE DRY WELL AND DRAINAGE/AERATION SYSTEM SHALL BE PROVIDED WHERE PROTECTED TREES OR GRAND TREES WILL BE ADVERSELY AFFECTED BY RAISING THE GRADE.
7. A PROTECTIVE RETAINING WALL SHALL BE CONSTRUCTED AT THE PERIMETER OF THE PROTECTIVE ROOT ZONE AROUND A PROTECTED TREE OR GRAND TREE WHERE THE PROTECTED TREE OR GRAND TREE WILL BE ADVERSELY AFFECTED BY LOWERING THE GRADE.
8. ALL TRIMMING OF PROTECTED TREES AND GRAND TREES DURING DEVELOPMENT SHALL BE DONE BY A LICENSED, CERTIFIED ARBORIST.

TYPICAL TREE BARRICADE

SCALE: NOT TO SCALE

ROOT PRUNING NOTES

1. ROOT PRUNING MAY BE NECESARY WHERE THERE ARE EXISTING TREE. CONTRACTOR TO VERIFY SITE CONDITIONS AND SCOPE OF WORK PRIOR TO SUBMITTING BID. THE PARKS AND RECREATION DEPARTMENT MAY RED-LINE PLANS TO CLARIFY FOR CONTRACTOR.
2. ROOT PRUNING SHALL BE DONE BY A CERTIFIED, QUALIFED ARBORIST, USING A DOSKO ROOT PRUNER OR EQUIVELANT PIECE OF MACHINERY. CONTRACTOR TO OBTAIN APPROVAL FROM CITY OF TAMPA PROJECT MANAGER FOR "EQUIVELANT PIECE OF MACHINERY" PRIOR TO CONDUCTING ROOT PRUNING.
3. ROOTS SHALL BE CUT EVEN AND SMOOTH, WITH SOIL AND ROOT BALL INTACT TO A DEPTH NOT TO EXCEED APPROXIMATELY 9".
4. FOLLOWING CONSTRUCTION, THE QUALIFIED ARBORIST SHALL DRENCH THE PERIMETER OF THE ROOT BALL(S) WITH AN APPROVED SYSTEMIC FUNGICIDE AND ROOT INDUCING HORMONE E.G., IBA.

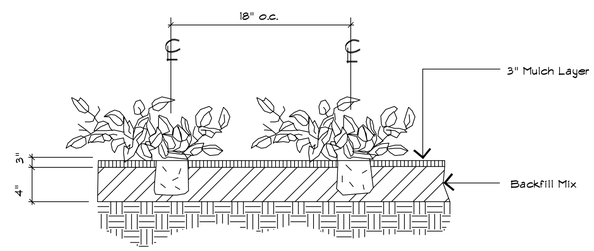
TREE CALIPER	DIST. FROM BASE OF TREE
2" - 6"	4'
6" - 24"	6'
24" +	15'

ADDITIONAL PLANTING NOTES:

1. CONTRACTOR SHALL ENSURE THAT ALL PLANTING BEDS SHALL BE CLEAN OF TRASH, CONSTRUCTION DEBRIS, OR OTHER WASTE MATERIALS TO A DEPTH OF 24" PRIOR TO LANDSCAPE INSTALLATION.
2. ALL EXISTING TREES TO REMAIN FREE OF PLANTING MATERIAL WITHIN 10' DIAMETER OF TRUNKS.
3. DISTRIBUTE MULCH UNDER EXISTING TREES WITHIN BEDS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING & REPAIRING DAMAGE TO EXISTING IRRIGATION DURING INSTALLATION AT HIS COST.
5. A SINGLE PODOCARPUS TREE APPROVED FOR REMOVAL BY K. BECK, CSC, PLANNING AND DEVELOPMENT.
6. EXCAVATE PLANTING BEDS TO ACCOMMODATE PLANTINGS AND MULCH, DO NOT DISTURB TREE ROOTS. BACKFILL WITH PLANTING LANDSCAPE MIX.
7. TECO REPLACEMENT POLE/RISER TO BE THRU CITY OF TAMPA. COORDINATE INSTALL WITH PLANTING.
8. COORDINATE REMOVAL OF TREE WITH STRUCTURAL WALL REPAIRS.
9. CONTRACTOR IS REQUIRED TO USE A CERTIFIED ARBORIST TO REMOVE PODOCARPUS.

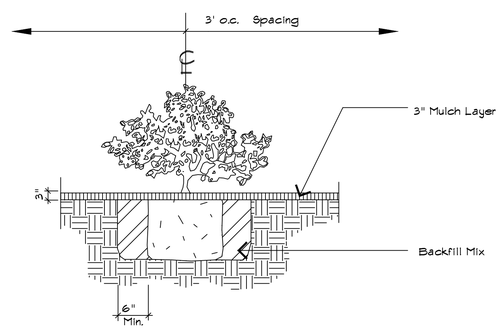
GENERAL LANDSCAPE NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND QUANTITIES INDICATED ON THESE PLANS BEFORE PRICING WORK.
2. PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN "GRADES AND STANDARDS FOR NURSERY PLANTS, 1998 EDITION DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS FOR NURSERY STOCK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE CONDITION OF UNDERGROUND UTILITIES THAT EFFECT PLANTING PROCEDURES. IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES FOR ON THE DRAWINGS AND ANY UNDERGROUND UTILITIES OR SUBSURFACE STRUCTURES, THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE. IF THE CONTRACTOR DAMAGES ANY STAKED OR IN PLACE UTILITIES BY HIS OWN NEGLIGENCE THEY SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
4. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE OF ANY CONDITIONS THAT WOULD PREVENT THE HEALTHY GROWTH OF PLANT SPECIES CALLED FOR ON THE DRAWINGS. THIS NOTIFICATION MUST OCCUR PRIOR TO CONTRACT AWARD.
5. IF ANY DESCREPANCIES OCCUR BETWEEN QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE DRAWINGS, THE DRAWINGS QUANTITY SHALL GOVERN.
6. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECTS, EGGS, OR LARVAE, AND SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS. THEY SHALL BE FREE FROM PHYSICAL DAMAGE OR ADVERSE CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.
7. PLANTS MUST BE CONTAINER GROWN OR B&B AS INDICATED IN THE PLANT LIST, EXCEPT TRANSPLANTED MATERIAL, IF SPECIFIED.
8. PLANTS SHALL CONFORM TO THE VARIETIES INDICATED IN THE PLANT LIST.
9. SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE. IF PROOF IS SUBMITTED THAT ANY PLANT SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE OR VARIETY WITH CORRESPONDING ADJUSTMENT OF CONTRACT PRICES.
10. PLANT MATERIAL LOCATIONS AND BED OUTLINES SHALL BE STAKED OR FLAGGED ON SITE BY THE CONTRACTOR AND SHALL BE ADJUSTED IF REQUIRED TO FIT ACTUAL AS-BUILT CONDITIONS ON SITE AND APPROVED BY THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL EXCAVATE PLANT PITS ACCORDING TO THE DRAWINGS.
12. BACKFILL AROUND PLANT MATERIAL SHALL BE WORKED FIRMLY, TAMPED AND WATERED-IN UNDER AND AROUND THE ROOT BALL TO FILL VOIDS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HOISTING EQUIPMENT NECESSARY FOR THE PLACEMENT OF PLANT MATERIAL.
14. CONTRACTOR SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. ANY DISCREPANCY IN THE DRAWINGS, OBSTRUCTION ON THE SITE, OR PRIOR WORK DONE BY ANOTHER PARTY WHICH THE CONTRACTOR FEELS PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE. THE FINAL GRADE SHALL BE PROVIDED BY THE CONTRACTOR.
15. AFTER PLANT MATERIAL HAS BEEN INSTALLED AND APPROVED, PLANTING BEDS SHALL BE RAKED TO AN EVEN GRADE TO CONFORM TO PRE-MULCHING FINISH GRADES. PLANTING BEDS AND PLANT SAUCERS SHALL THEN BE UNIFORMLY COVERED WITH A MINIMUM 3 INCH LAYER OF MULCH AS SPECIFIED.
16. PLANT MATERIAL BACKFILL MIXTURE SHALL BE THOROUGHLY MIXED AND DISTRIBUTED EVENLY THROUGHOUT THE PROPOSED PLANTING BED AREAS.
17. BACKFILL MIXTURE SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL½DRAINED ARABLE SITE, REASONIABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE BETWEEN PH 5.5 AND 6.5. MIXTURE 50% COURSE NATIVE SAND AND 50% PEAT AS SPECIFIED. PEAT: BROWN TO BLACK IN COLOR, STERILE, WEED AND SEED FREE GRANULATED RAW PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS.
18. FERTILIZER SHALL BE AGRIFORM TABLETS, 21 GRAM.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS BEFORE COMMENCING CONSTRUCTION.
20. THE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL ON SITE BEFORE AND AFTER PLANTING, UNTIL THE WORK IS ACCEPTED BY THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE.
21. SHRUBS AND GROUNDCOVERS SHALL BE GUARANTEED BY THE CONTRACTOR TO BE HEALTHY PLANTS AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR NINETY (90) DAYS FROM FINAL INSPECTION AND ACCEPTANCE. TRANSPLANTED MATERIAL, IF ANY, IS EXCLUDED FROM THIS GUARANTEE.
22. THE CITY OF TAMPA PARKS & RECREATION REPRESENTATIVE HAS THE RIGHT TO REJECT ANY AND ALL WORK WHICH IN HIS OPINION DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF PREMISES AND REMOVAL OF DISCARDED AND SURPLUS MATERIALS AND RUBBISH. SITE TO BE CLEANED DAILY.
24. BACKFILL PLANTING BED WITH PLANTING SOIL SPECIFIED BEFORE MULCHING.
25. FINAL MULCH GRADE TO BE 1" BELOW ADJACENT CURB AND 1/2" BELOW ADJACENT BRICK PATIO AREA.
26. BACKFILL PLANTING SOIL MIX: HILLARY PEAT LANDSCAPE MIX.



TYPICAL GROUNDCOVER PLANTING

SCALE: NOT TO SCALE



TYPICAL SHRUB PLANTING

SCALE: NOT TO SCALE

GENERAL NOTES

KEY NOTES

LANDSCAPE DETAILS

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DRAWN BY
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LANDSCAPE DETAILS

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LS-2