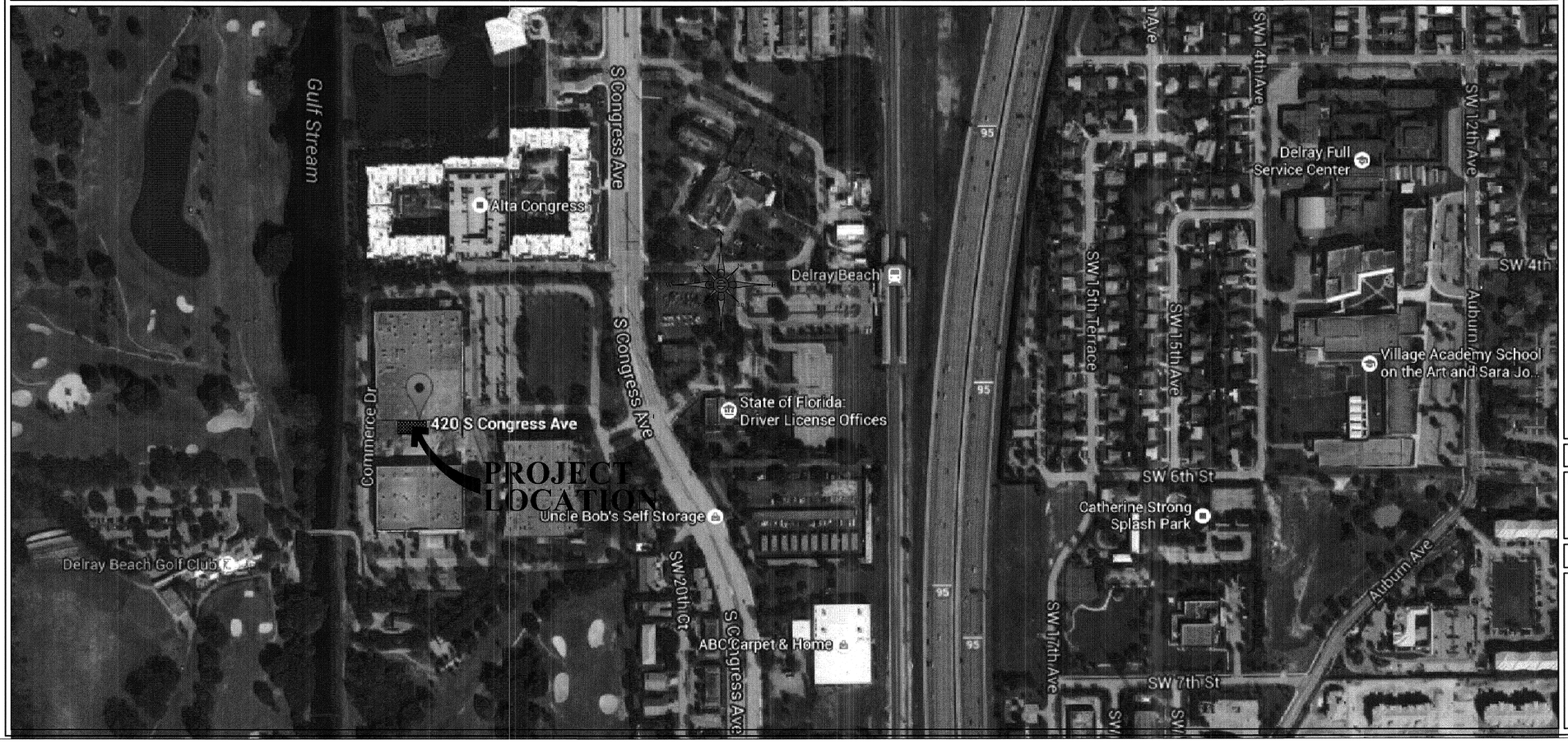
PETMEDS BAILER BUILDING

Delray Beach, Florida 33445

VICINITY MAP



INDEX OF DRAWINGS

T-1	TITLESHEET
LS-1	LIFE SAFETY PLAN
A-1	FLOOR PLAN
A-2	ELEVATIONS & SECTION
RC-2	REFLECTED CEILING PLAN
SL101	PHOTOMETRIC PLAN
ME401	POWER & VENTILATION PLAN
S1	FOUNDATION PLAN
S2	ROOF FRAMING PLAN
S3	DETAILS
S4	STRUCTURAL NOTES & DETAIL

PROJECT DATA

OCCUPANCY : F3 CONSTRUCTION TYPE : IIIB
LEVEL OF CONSTRUCTION : ADDITION
NUMBER OF STORIES - 1
(FIRE RESISTANCE RATING = 0)

CODES AND REFERENCES :

* THE FLORIDA BUILDING CODE
2014 5th EDITION ASCE7-10
* THE FLORIDA EXISTING BUILDING CODE
2014 EDITION
* NATIONAL ELECTRIC CODE
2011 EDITION
* THE FLORIDA FIRE PREVENTION CODE
2010 EDITION

EXTERIOR WALLS:

MINOR MODIFICATIONS TO EXISTING BUILDING ENVELOPE, ENCLOSURE COMPONENTS OR CLADDING ARE BEING MADE

DESIGN OCCUPANT LOAD (1004.0):

4,167 SQ. FT. / 300 = 14 PERSONS

EXIT DOOR:

2 EXITS ARE PROPOSED

ACCESSIBILITY REQUIREMENTS:

FBC 11-11.1

GENERAL NOTES:

1. CARE SHALL BE MADE TO CONTAIN AND MINIMIZE CONSTRUCTION DEBRIS AND DUST.
2. ALL NEW PAINTS, ADHESIVES, SEALANTS, GLUES AND SHELLACS SHALL BE "LOW VOC" ONLY.
3. THIS BUILDING AND THE DESIGNATED WORK AREAS ARE DESIGNATED NON-SMOKING AREAS AT ALL TIMES.
4. CONTRACTOR SHALL BE FAMILIAR WITH ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN DRAWINGS.

WORK AREA CALCULATIONS

Floor A/C : 4,156 Sq. Ft.

SYMBOLS

NOTE REFERENCE	4	REFERENCE NUMBER
DOOR REFERENCE	2	DOOR NUMBER
WINDOW REFERENCE	M	WINDOW LETTER
REVISION REFERENCE	5	REVISION NUMBER
DETAIL REFERENCE	1 / A-7	DETAIL NUMBER SHEET NUMBER
BUILDING SECTION REFERENCE	1 / A-5	SECTION NUMBER / SHEET NUMBER

REVISIONS

NO.	DATE	DESCRIPTION

PETMEDS BAILER BUILDING

420 SOUTH CONGRESS AVENUE
DELRAY BEACH, FLORIDA 33445

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The Benedict Bullock Group, PA
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Lic. No. AA 26003089

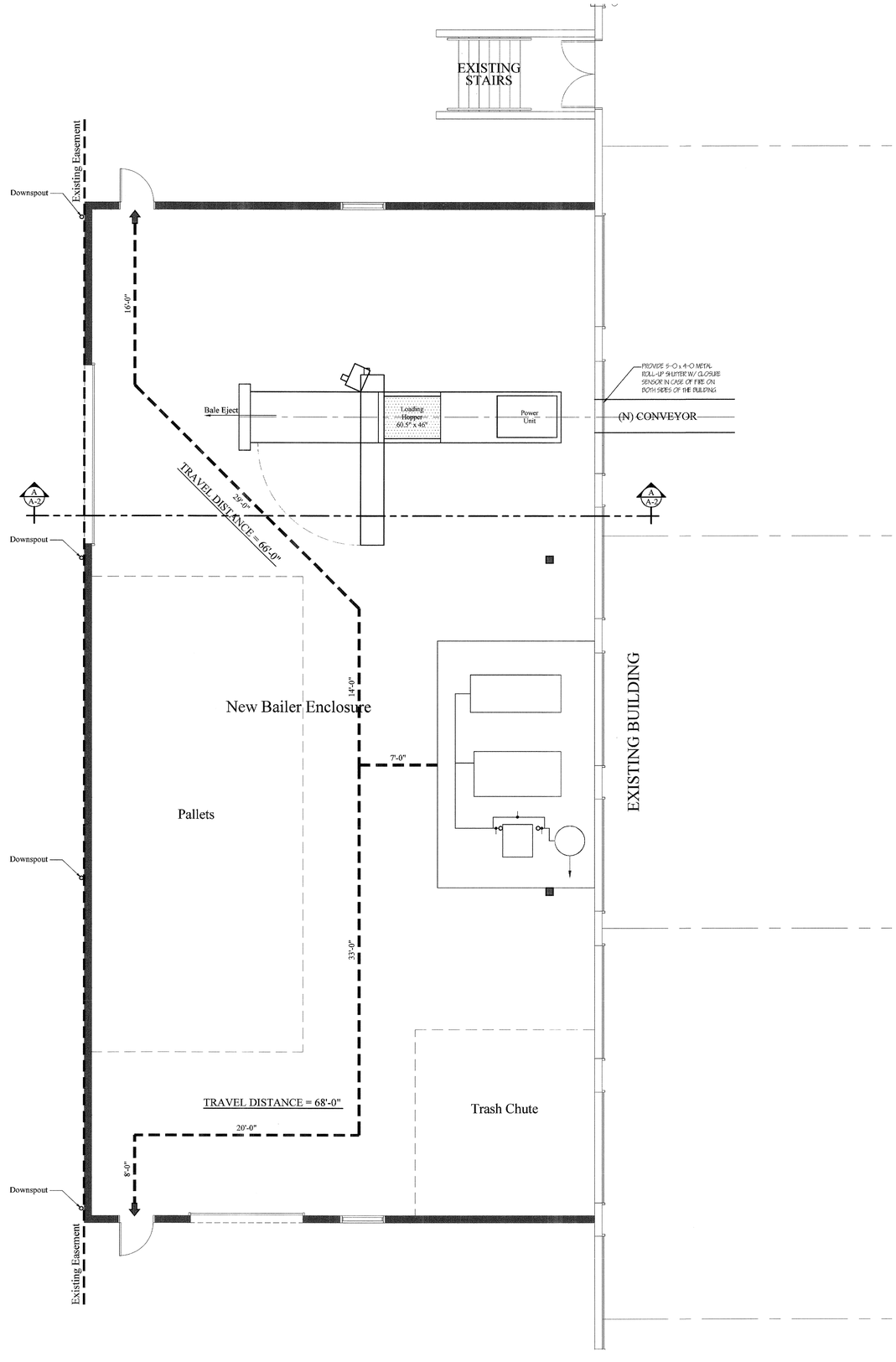
Brian Bullock
Architect
AR 95754

SHEET DESCRIPTION

TITLE SHEET

SCALE 1/16"=1'-0"	DRAWING NUMBER
DATE 06-16-16	T-1
DRAWN & CHECKED ADS	
JOB NUMBER BP 1608	

C:\Amar\AUTOCAD PROJECTS\PETMEDS S CONGRESS BAILER BUILDING REV 06-16-16 #BP1608\Sheets\T-1 TITLESHEET.dwg, T-1 TITLESHEET, 6/21/2016 1:50:47 PM



REVISIONS		
NO.	DATE	DESCRIPTION

PETMEDS BAILER BUILDING

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Brian Bullock
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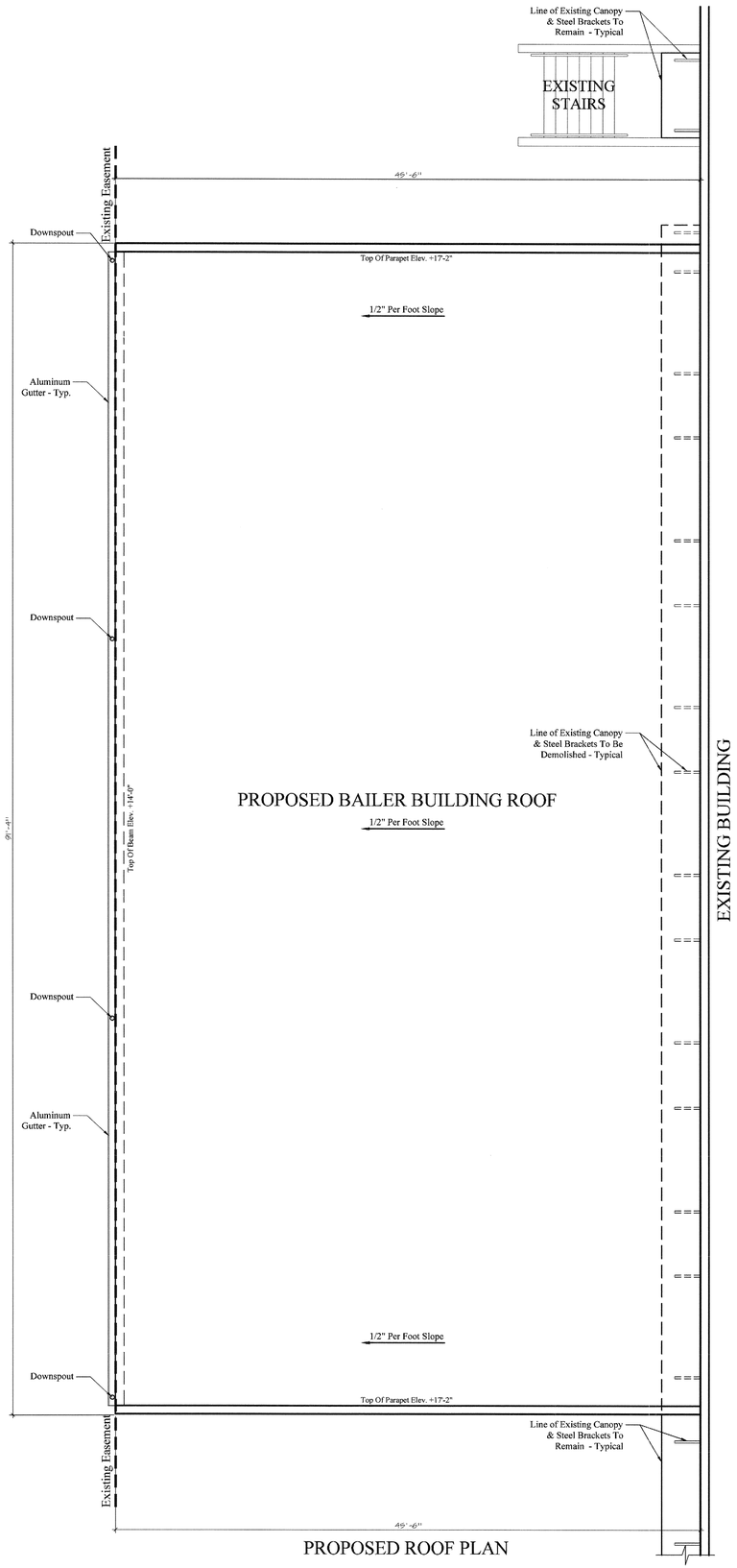
AR 95754

SHEET DESCRIPTION

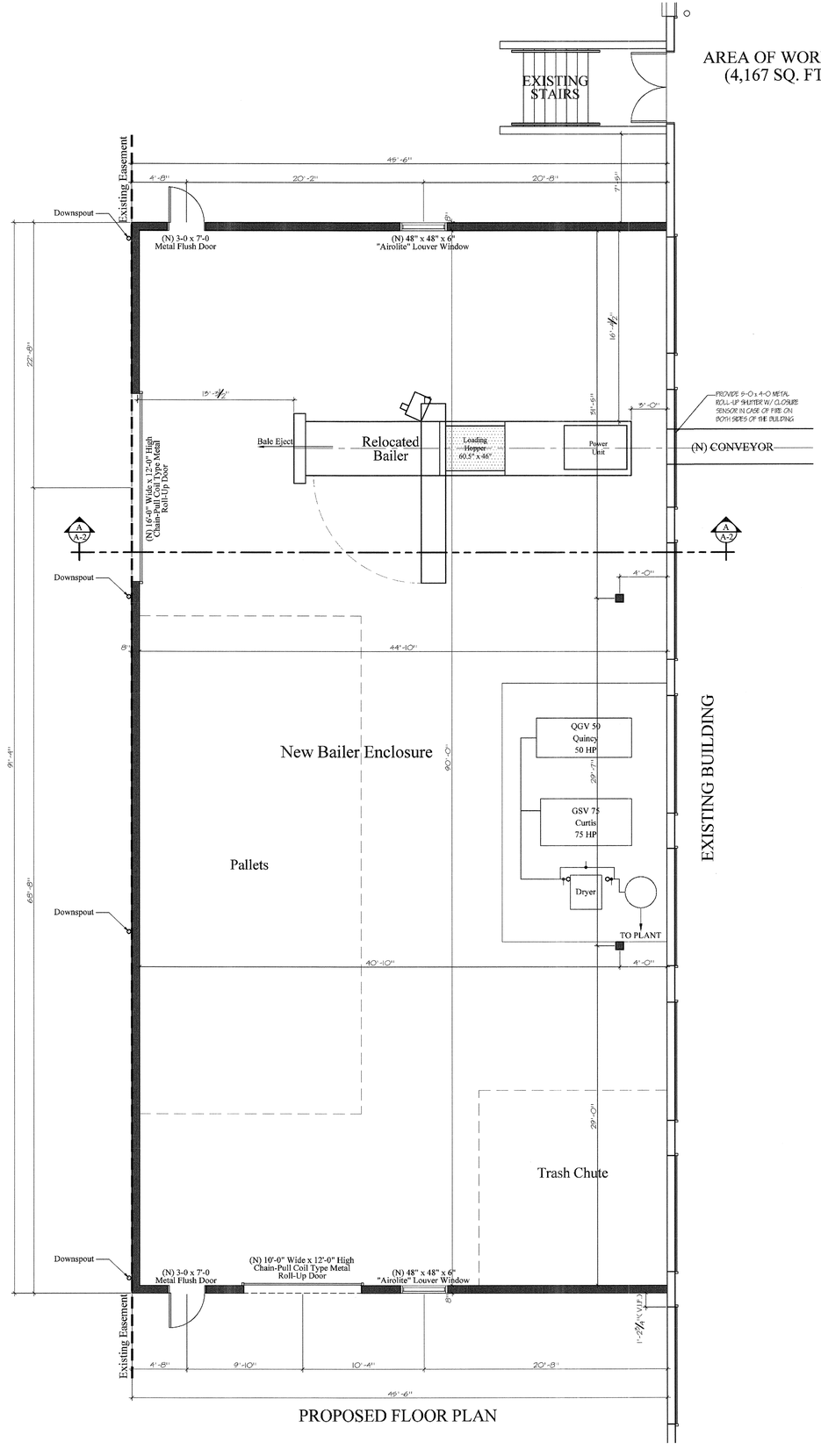
LIFE SAFETY PLAN

SCALE 1/16"=1'-0"	DRAWING NUMBER
DATE 06-16-16	LS-1
DRAWN & CHECKED AD5	
JOB NUMBER BP 1608	

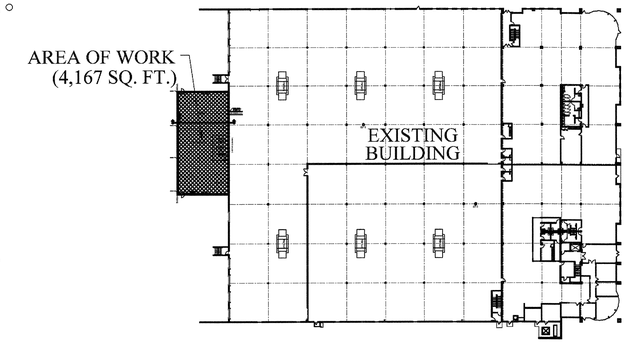
C:\Amar\AUTOCAD PROJECTS\PETMEDS S CONGRESS BAILER BUILDING REV 06-16-16 #BP1608\Sheets\LS-1 LIFE SAFETY PLAN.dwg, LS-1 LIFE SAFETY PLAN, 6/21/2016 1:50:51 PM



PROPOSED ROOF PLAN



PROPOSED FLOOR PLAN



KEY PLAN

LEGEND :

- EXISTING INTERIOR WALL TO REMAIN
- PROPOSED WALL
- (E) EXISTING
- (N) NEW

WORK AREA CALCULATIONS

Floor A/C : 4,156 Sq. Ft.

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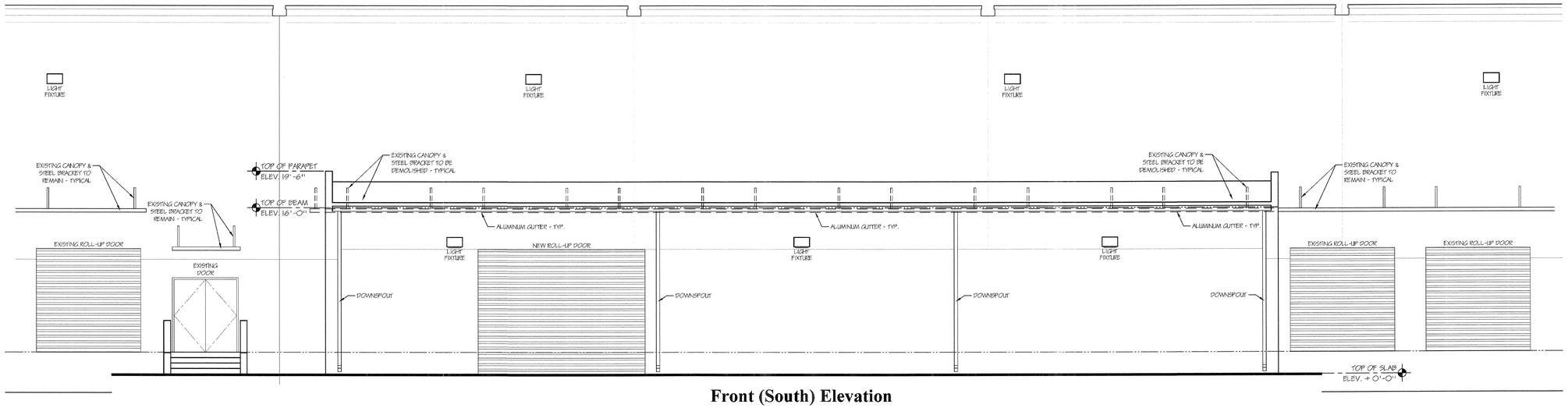
Brian Bullock
Architect
AR 95754

SHEET DESCRIPTION

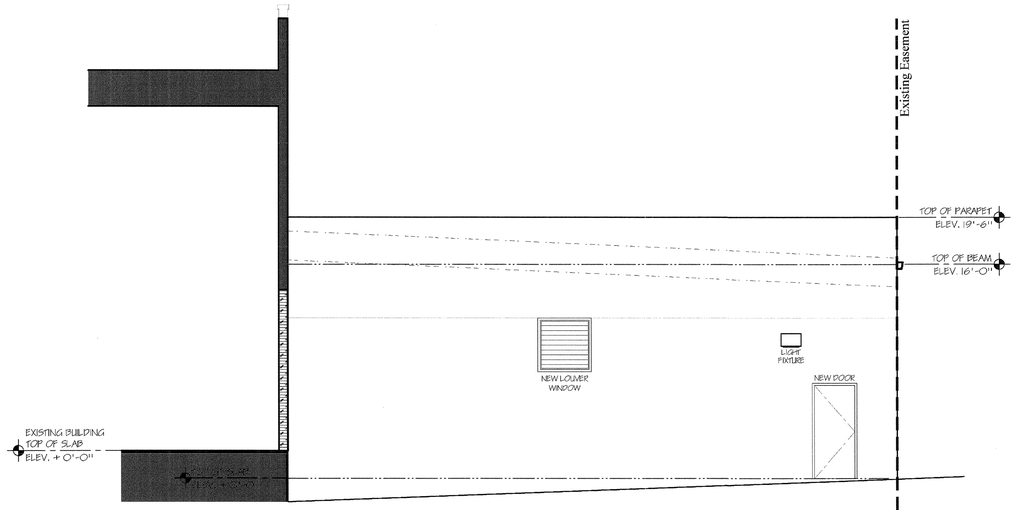
PROPOSED FLOOR & ROOF PLANS

SCALE 3/16"=1'-0"	DRAWING NUMBER
DATE 06-16-16	A-1
DRAWN & CHECKED ADS	
JOB NUMBER BP 1608	

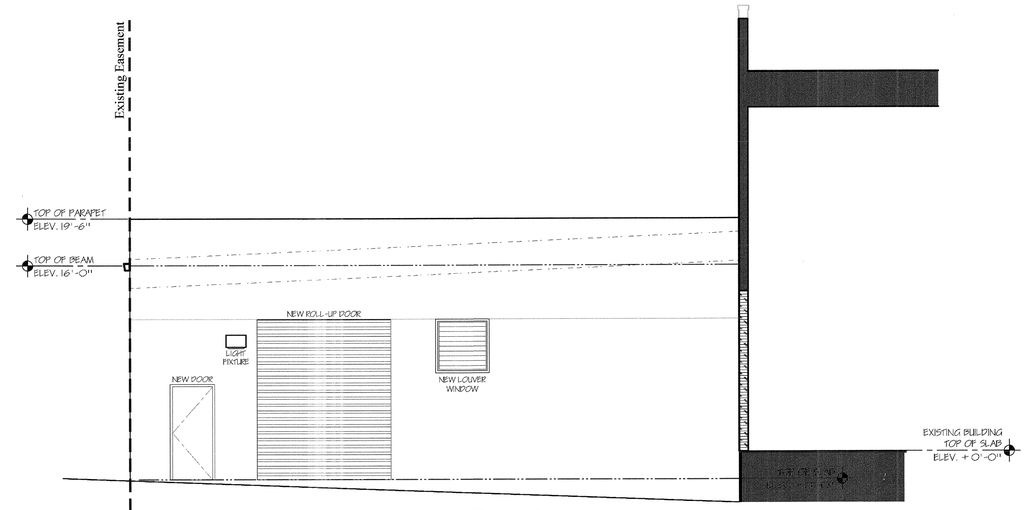
C:\Amar\AUTOCAD PROJECTS\PETMEDS S CONGRESS BAILER BUILDING REV 06-16-16 #BP1608\Sheets\A-1 PROPOSED FLOOR & ROOF PLANS.dwg, A-1 PROPOSED FLOOR PLAN, 6/21/2016 1:50:53 PM



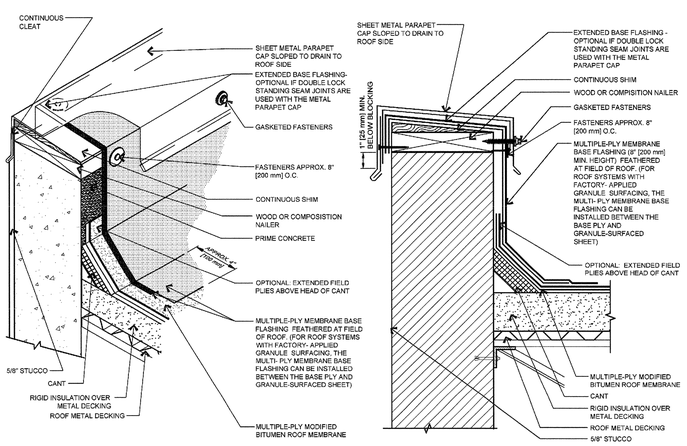
Front (South) Elevation



Left (West) Side Elevation

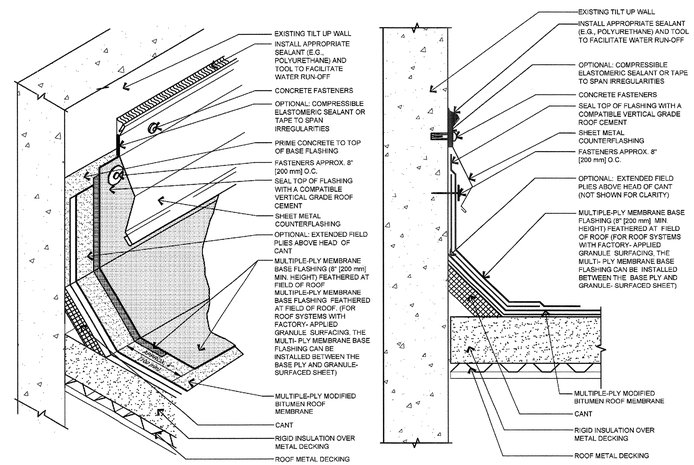


Right (East) Side Elevation



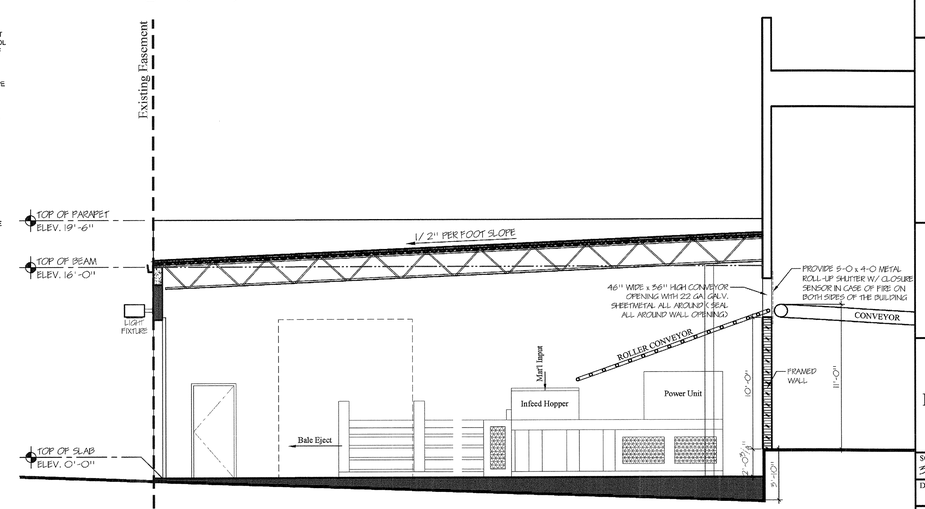
NOTES:
1. IN LIEU OF EXTENDED BASE FLASHING, INSTALL CONTINUOUS SHEET FLASHING UNDER.
2. REFER TO THE SHEET METAL SECTION OF THE METAL ROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.

2 A-2 WATERPROOFING DETAIL AT NEW PARAPET
NOT TO SCALE



NOTES:
1. COUNTERFLASHING DETAIL MAY BE A TWO-PIECE REGLET AND COUNTERFLASHING (SEE TABLE 2 FOR ALTERNATE SHEET METAL COUNTERFLASHING).
2. REFER TO THE SHEET METAL SECTION OF THE METAL ROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.

1 A-2 WATERPROOFING DETAIL AT EXISTING WALL
NOT TO SCALE



Building Section A-A

REVISIONS		
NO.	DATE	DESCRIPTION

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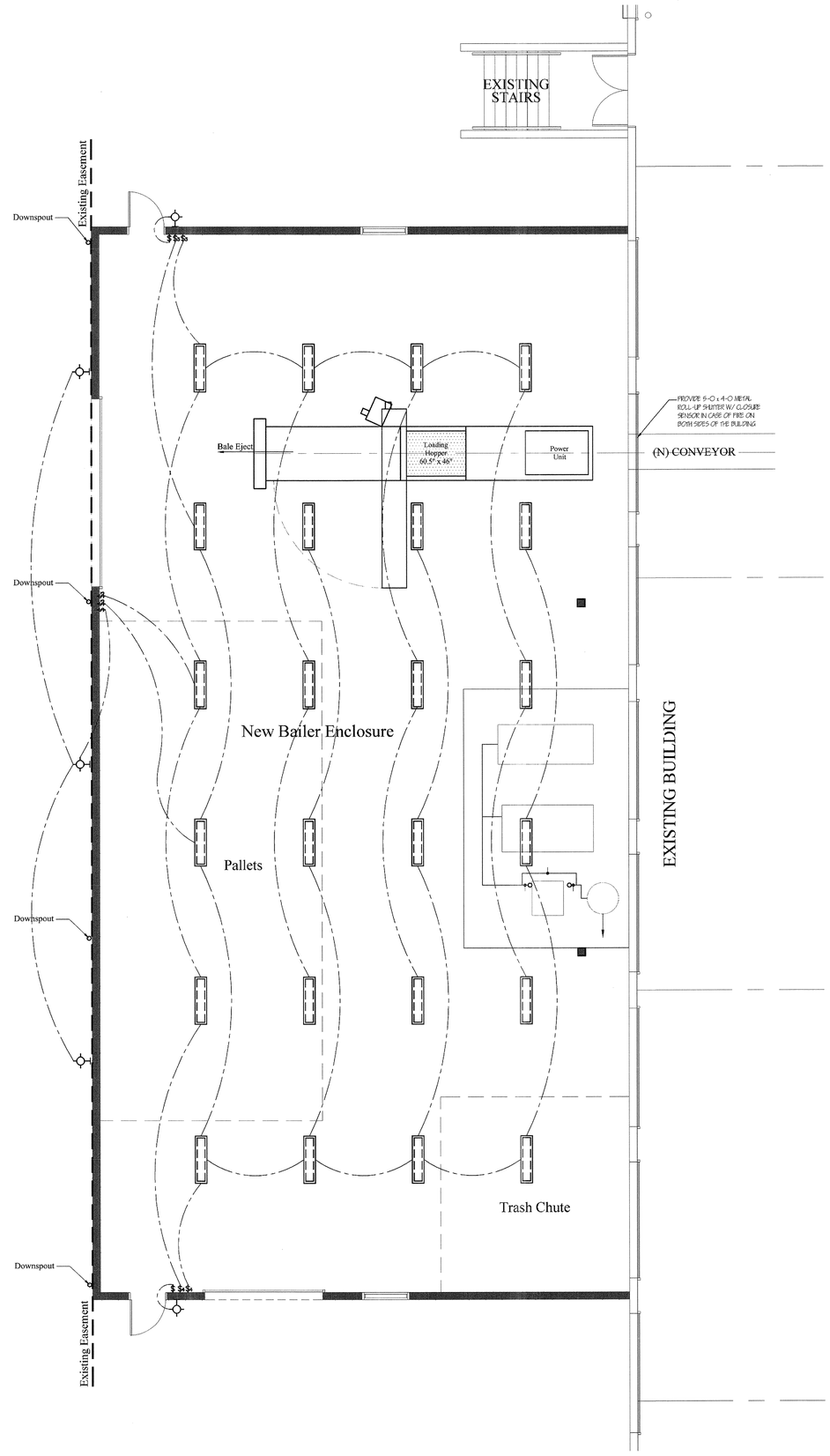
Brian Bullock
Architect
AR 95754

SHEET DESCRIPTION

ELEVATIONS, BUILDING SECTION & DETAILS

SCALE 3/16"=1'-0"	DRAWING NUMBER A-2
DATE 06-16-16	
DRAWN & CHECKED AP5	
JOB NUMBER BP 1608	

C:\Amar\AUTOCAD PROJECTS\PETMEDS S CONGRESS BAILER BUILDING REV 06-16-16 #BP1608\Sheets\A-2 ELEVATIONS & SECTION.dwg, A-2 ROOF PLAN ELEVATIONS & SECTION, 6/21/2016 1:50:56 PM



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SHEET DESCRIPTION

REFLECTED CEILING PLAN

SCALE 3/16"=1'-0"	DRAWING NUMBER
DATE 06-16-16	RC-1
DRAWN & CHECKED ADS	
JOB NUMBER BP 1608	

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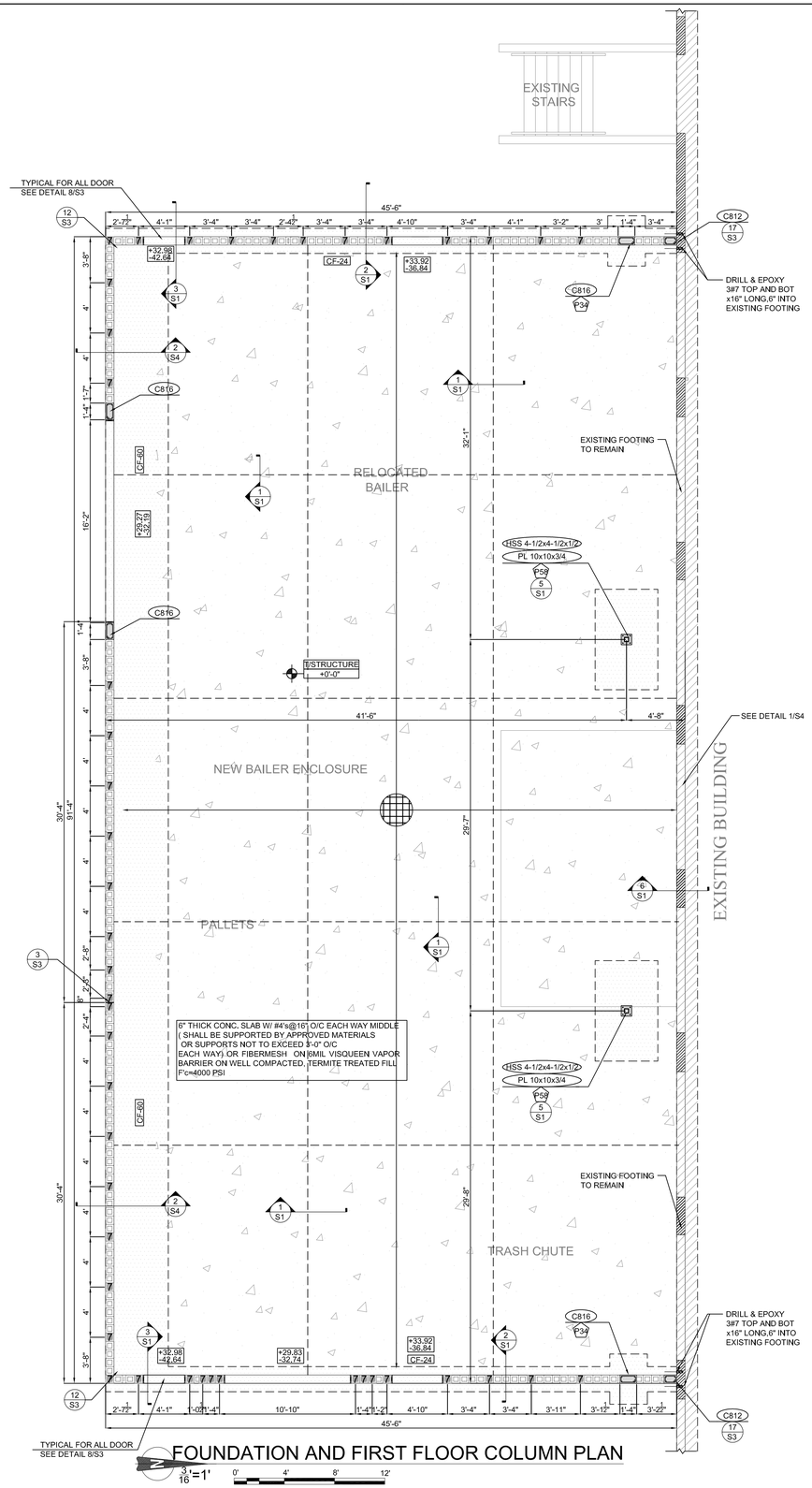


FOUNDATION AND FIRST FLOOR COLUMN PLAN

3/16"=1'

STEMWALL FOOTING SCHEDULE

CODE	WIDTH	LENGTH	DEPTH	COL. COVERAGE	REINFORCEMENT DIAMETER AND COUNT		ADDITIONAL REQUIREMENTS
					SHORT WAY	LONG WAY	
CF-24	24"	"	12"	12"	# 4's @ 16" O/C BOTTOM	(3) # 5's BOTTOM	"
CF-60	60"	"	12"	12"	# 5's @ 12" O/C BOTTOM	(6) # 5's BOTTOM	"

PAD FOOTING SCHEDULE

CODE	WIDTH	LENGTH	DEPTH	COL. COVERAGE	REINFORCEMENT DIAMETER AND COUNT		ADDITIONAL REQUIREMENTS
					SHORT WAY	LONG WAY	
P34	3'	4'	12"	12"	(5) # 5's BOTTOM	(4) # 5's BOTTOM	"
P58	5'	8'	12"	12"	(6) # 5's BOTTOM	(6) # 5's BOTTOM	"

LOADING THIS LEVEL

FIRST FLOOR - INTERIOR (138 PSF)

DEAD (77 PSF) FLOOR SELF WEIGHT= **50 PSF**
FLOOR FINISHES = **27 PSF**

LIVE (55 PSF) OCCUPANCY = **40 PSF**
PARTITIONS:ASCE7-10: 4.3,2 = **15 PSF**

FIRST FLOOR - EXTERIOR (177 PSF)

DEAD (77 PSF) FLOOR SELF WEIGHT= **50 PSF**
FLOOR FINISHES = **27 PSF**

LIVE (100 PSF) OCCUPANCY = **100 PSF**

CONCRETE & CMU COLUMN SCHEDULE

COORDINATE COLUMN EDGE LOCATION WITH THE ARCHITECTURALS AND WITH THE DOOR/WINDOW SUPPLIER

M5 M7	5 7	8"x8" FORMED COL. OR CMU COL. w/ (1) # 5 REINF. BAR (30" LAPS) w/ (1) # 7 REINF. BAR (42" LAPS) SEE FNDN & FRMING PLAN FOR LOCATIONS FILL w/ GROUT - SEE STRUCTURAL NOTES.
C812		8"x12" POURED CONC. COL. w/ (4) #5's VERT. w/ #3 TIES @ 8" O/C
C816		8"x16" POURED CONC. COL. w/ (4) #6's VERT. w/ #3 TIES @ 8" O/C

SYMBOL LEGEND

SYMBOL	DESCRIPTION
4@6B-INNER 4@6T-INNER 4@6T-OUTER 4@6B-OUTER	STEEL REINFORCEMENT LEGEND: -4@6 : #4's @ 6" O/C -B : BOTTOM -T: TOP -OUTER: OUTERMOST LAYER -INNER: INNERMOST LAYER -TEMP: TEMPERATURE AND SHRINKAGE REINF.
3 S1	SECTION MARK - DETAIL NUMBER / SHEET NUMBER
	ROOF RIDGE LINES
4"	FLOOR STEP
SC1	STEEL COLUMN ABOVE FLOOR LEVEL
SC1	STEEL COLUMN BELOW FLOOR LEVEL
SC1 SC1	STEEL COLUMN ABOVE AND BELOW FLOOR LEVEL
P1	CONCRETE PAD FOOTING - SEE FOOTING SCHEDULE
1	REVISION NUMBER - SEE TITLE BLOCK FOR DATE
	REVISION CLOUD
ABOVE BELOW	STEEL COLUMN
ABOVE BELOW	CONCRETE COLUMN - SEE CONC. COL SCHED.
7	FILLED CELL - SEE CONC. COL. SCHED.
7	CMU WALL CURRENT LEVEL
	CMU WALL ONE LEVEL BELOW
	EXISTING STRUCTURE
	SOIL
4"	NEW CONCRETE SLAB
	NEW CONCRETE BEAM
	NEW CONCRETE FOOTING
TYP. 1 S1	WELD SYMBOLS
1/4	TIE BEAM TRANSITION SYMBOLS
FF +0'-0"	ELEVATION MARKER - SEE ARCH PLANS FOR +0'-0"
+55.06 -68.88	WIND PRESSURES ON OPENINGS (GIVEN IN PSF)
	CONCRETE WALL VERTICAL REINFORCEMENT, SEE FOUNDATION / FRAMING PLANS FOR LOCATIONS
	THICK DASHED LINE REPRESENTS OPENING ON STORY BELOW REINFORCED MASONRY WALL
B840, T@14'-0"	CONCRETE BEAM, 8" WIDE x 40" DEEP, TOP @ +14'-0" SEE BEAM SECTION OR PROFILE FOR REINFORCEMENT

FARID ABUGATTAS LICENSE No 72471 STATE OF FLORIDA PROFESSIONAL ENGINEER

6/20/2016

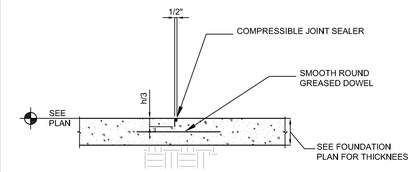
PROJECT CLASSIC
Structural Engineering

FARID ABUGATTAS, P.E.
STRUCTURAL ENGINEER
7318 TEXAS TRAIL
BOCA RATON, FLORIDA 33487
PHONE: (954) 667 - 7803 FAX: (561) 665 - 5438
P.E. LICENSE # 72471, CA#29407
WWW.PROJECTCLASSIC.COM
FARID@PROJECTCLASSIC.COM

PROJECT# 2647

REVISIONS

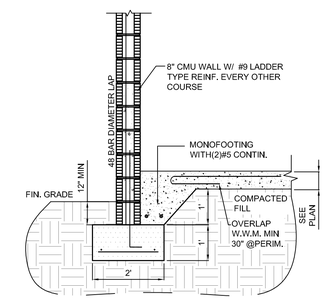
NO.	DATE	DESCRIPTION



SLAB DEPTH (IN)	DIAMETER (IN)	TOTAL LENGTH (IN)	SPACING (IN)
6	3/4	14	14

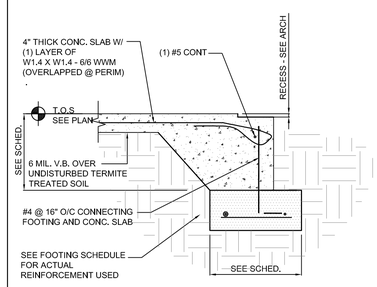
1/S1 CONSTRUCTION/CONTROL JOINT SMOOTH DOWEL

3/4"=1'



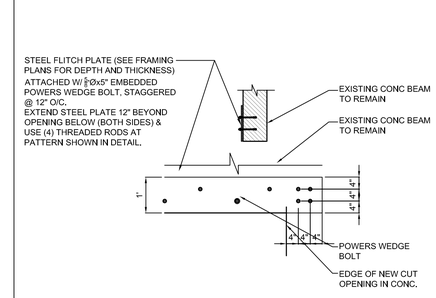
2/S1 8" CMU - 24x12 FTG.

SCALE: 1/2" = 1'



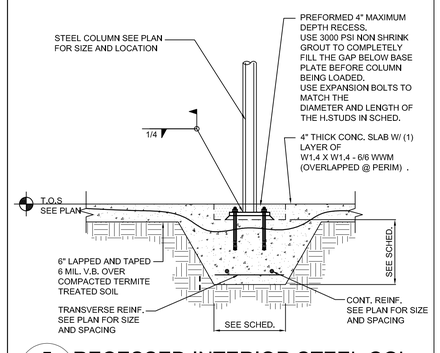
3/S1 STEP DOWN AT EXTERIOR DOOR

SCALE: 3/4" = 1'



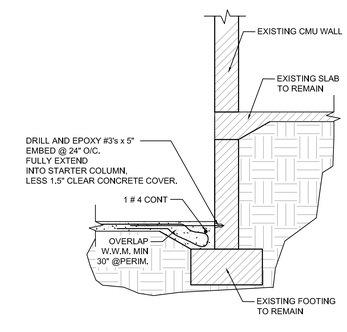
4/S1 STL FLITCH PLATE ATTACHMENT TO EXISTING BM ABV NEW OPENINGS

SCALE: 1/2" = 1'



5/S1 RECESSED INTERIOR STEEL COL.

SCALE: 3/4" = 1'



6/S1 SECTION

SCALE: 1/2" = 1'

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AR 95754

SHEET DESCRIPTION

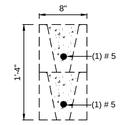
SCALE

DATE 05-03-16

DRAWN & CHECKED ADS

JOB NUMBER BP 1608

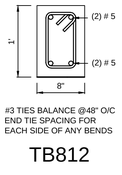
DRAWING NUMBER S1 OF 4



BOND BEAM

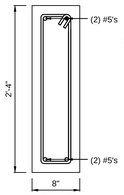
PRE-CAST LINTEL: SOLID GROUT CMU OVER LINTEL

PCL

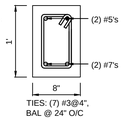


#3 TIES BALANCE @48" O/C END TIE SPACING FOR EACH SIDE OF ANY BENDS

TB812

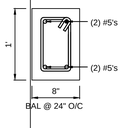


TIES: (3) #3@4", BAL @ 48" O/C



TIES: (7) #3@4", BAL @ 24" O/C

B812



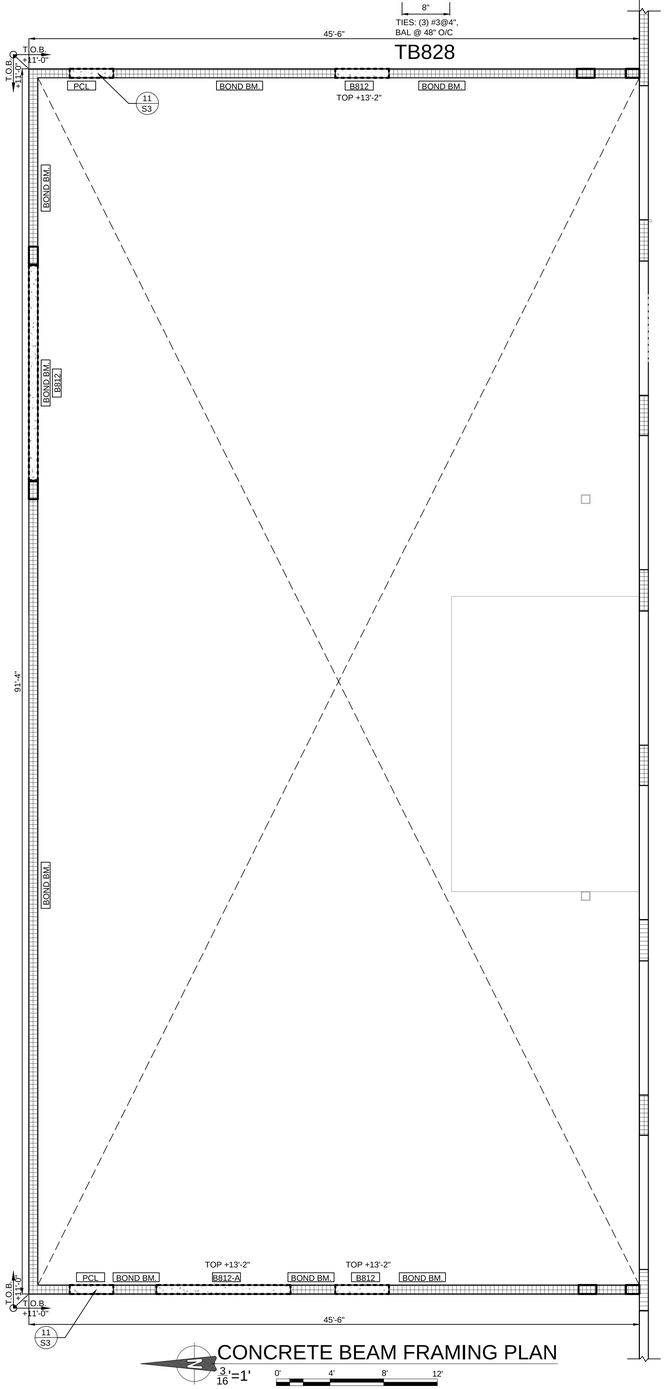
BAL @ 24" O/C

B812-A

LOADING THIS LEVEL

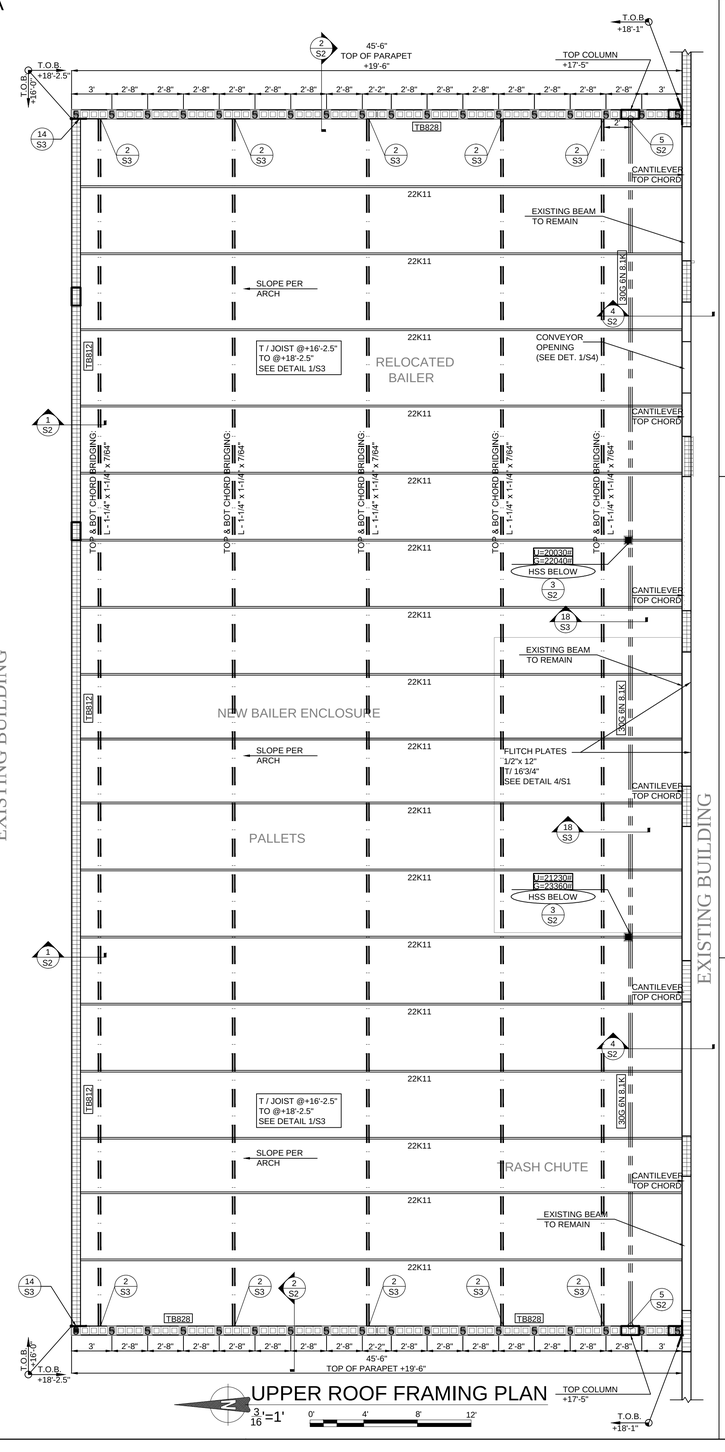
STEEL JOISTS ROOF (65 PSF)

DEAD (35 PSF)	STEEL JOIST SELF WEIGHT= **6 PSF** STEEL DECK = **3 PSF** DUCTWORK = **4 PSF** CEILINGS = **2 PSF** **INSULATING CONC = 15PSF** OTHER = **5 PSF**
LIVE (30 PSF)	CONSTRUCTION LIVE = **30 PSF**



CONCRETE BEAM FRAMING PLAN

3/16"=1' 0' 4' 8' 12'



UPPER ROOF FRAMING PLAN

3/16"=1' 0' 4' 8' 12'

FARID ABUGATTAS LICENSE No 72471 STATE OF FLORIDA PROFESSIONAL ENGINEER

6/20/2016

PROJECT CLASSIC Structural Engineering

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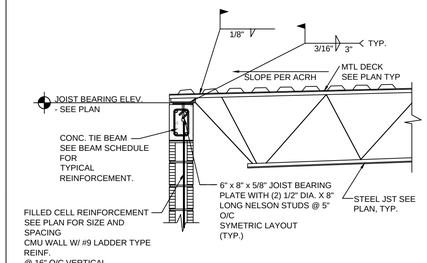
PROJECT# 2647

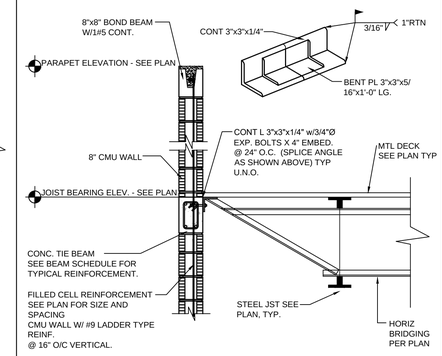
REVISIONS

NO.	DATE	DESCRIPTION



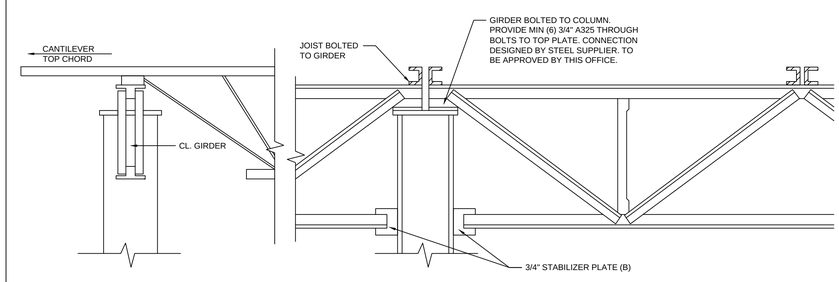
1 / S2 SECTION @JOIST BRG.

SCALE: 1/2" = 1'



2 / S2 SECTION @BRIDGING.

SCALE: 1/2" = 1'



3 / S2 SECTION

SCALE: 1" = 1'

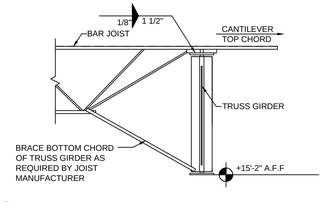
NOTES

(A) THE STANDARD CONNECTION FOR JOIST GIRDERS TO COLUMN IN 13/16 INCH SLOTS FOR 3/4 INCH BOLTS IN GIRDER BEARINGS.

(B) STABILIZER PLATES BETWEEN BOTTOM CHORD ANGLES STABILIZE THE BOTTOM LATERALLY AND BRACE THE JOIST GIRDER AGAINST OVERTURNING DURING ERECTION. DO NOT WELD BOTTOM CHORD TO THE STABILIZER PLATE

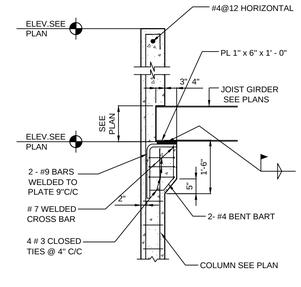
(C) JOISTS ARE CONNECTED TO THE GIRDER BY WELDING EXCEPT THAT THE JOISTS AT (OR NEAREST) THE COLUMN SHALL BE BOLTED (O.S.H.A. SEC. 1910.12 CONSTRUCTION STANDARDS SEC. 1518.751).

(D) PROVIDE A BOTTOM CHORD BRACE AT THE FIRST JOIST LOCATION FROM EACH END OF THE JOIST GIRDER, DUE TO UPLIFT FORCES. IF ANY ADDITIONAL BRACES ARE REQUIRED DUE TO COMPRESSION LOAD IN THE BOTTOM CHORD, JOIST GIRDER MANUFACTURER SHALL INDICATE THEIR LOCATION ON THE APPROVAL DRAWINGS



4 / S2 BAR JOIST/TRUSS GIRDER CONN.

SCALE: 1" = 1'



5 / S2 SECTION

SCALE: 1/2" = 1'

PETMEDS BAILER BUILDING

420 SOUTH CONGRESS AVENUE DELRAY BEACH, FLORIDA 33445

THE BENEDICT GROUP (TBG) ARCHITECTURE AND PLANNING HEREIN RESERVES ITS COPYRIGHTS AND OTHER PROPERTY RIGHTS IN THESE PLANS, IDEAS, AND DESIGNS. SAME SHALL NOT BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER , NOR SHALL THEY BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM TBG

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION. THESE DRAWINGS MUST NOT BE SCALED.

The Benedict Bullock Group, PA

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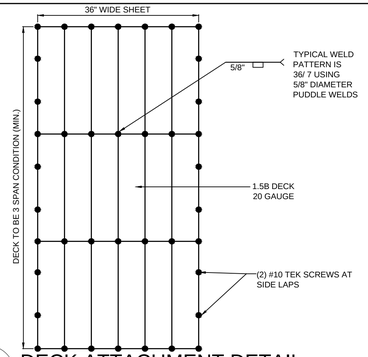
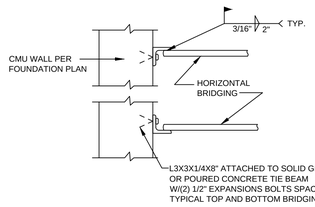
Brian Bullock
Architect
AR 95754

SHEET DESCRIPTION

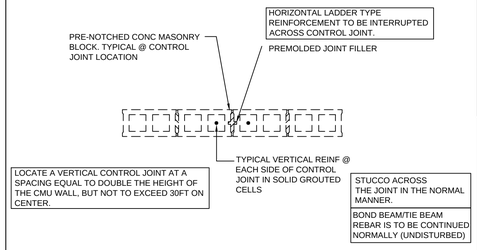
SCALE	DRAWING NUMBER
DATE 05-05-16	S2
DRAWN & CHECKED ADS	OF 4
JOB NUMBER BP 1608	



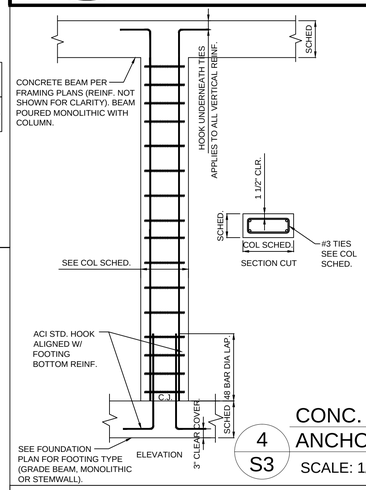
1 S3 DECK ATTACHMENT DETAIL
SCALE: 3/4" = 1'



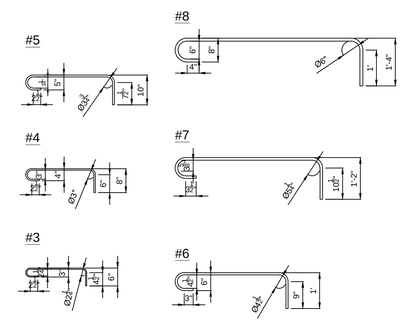
2 S3 HORIZONTAL BRIDGING ANCHORAGE DETAIL
SCALE: 3/4" = 1'



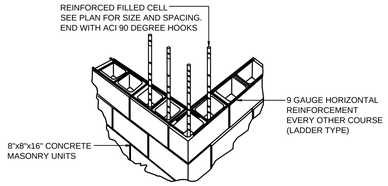
3 S3 MANSORY WALL SHRINKAGE CONTROL JOINT



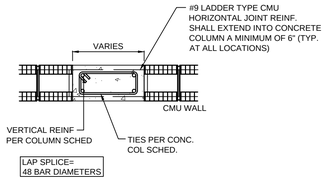
4 S3 CONC. COL. ANCHORAGE.
SCALE: 1/2" = 1'



5 S3 ACI STANDARD HOOKS
SCALE: 1/2" = 1'

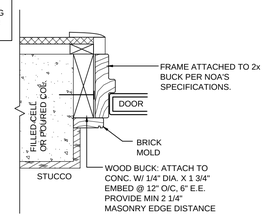


6 S3 CMU TYPICAL REINFORCEMENT DETAIL
SCALE: N.T.S.

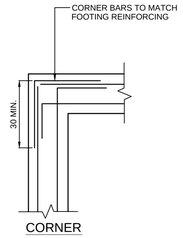


7 S3 CONCRETE COLUMN
SCALE: 3/4" = 1'

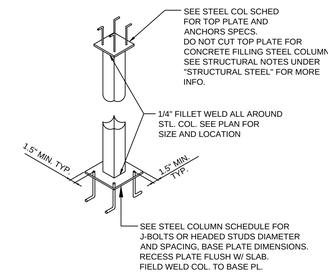
NOTE: THIS DETAIL IS ONLY INTENDED FOR THE MINIMUM FASTENING OF THE FRAME THROUGH THE BUCK, INTO THE CONCRETE SUBSTRATE. ACTUAL FASTENERS TO BE INSTALLED PER PRODUCT APPROVAL. ACTUAL FINISHING MATERIALS AND SHAPES PER ARCHITECTURALS.



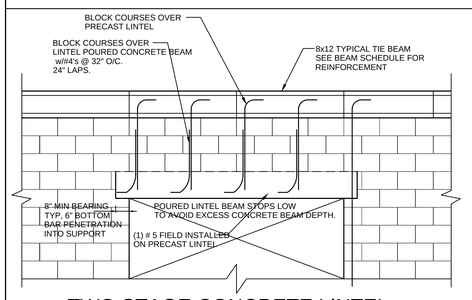
8 S3 DOOR BUCK DETAIL
SCALE:N.T.S.



12 S3 TYPICAL FOOTING INTERSECTION DETAIL
SCALE: 3/8" = 1'

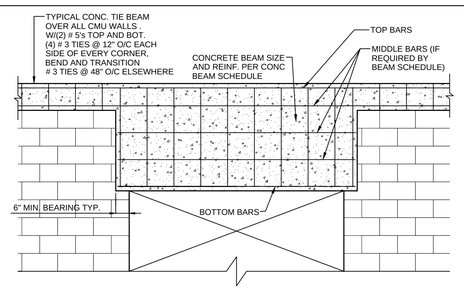


13 S3 STL. COL. DETAIL
SCALE: 3/8" = 1'

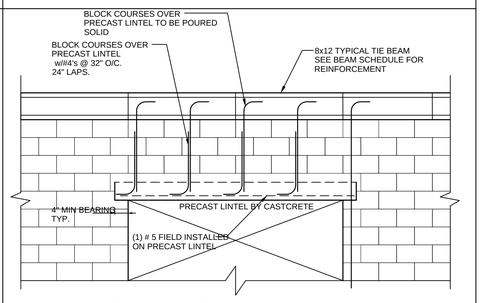


9 S3 TWO STAGE CONCRETE LINTEL BEAM POUR W/ MID REINFORCED CMU
SCALE: 3/8" = 1'

ALTERNATIVE: GC MAY ELECT TO POUR THIS BEAM FULL HEIGHT WITHOUT AN INTERMEDIATE BLOCK LAYER. (1) INTERMEDIATE HORIZONTAL LAYER OF 2 # 5 MUST BE PROVIDED PER EVERY ADDITIONAL 12" OF CONCRETE DEPTH. TIES MUST BE FULL HEIGHT.

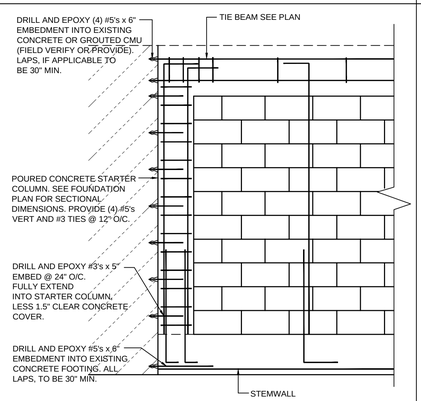


10 S3 TYPICAL TIE BEAM DROP OVER OPENINGS
SCALE: 3/8" = 1'

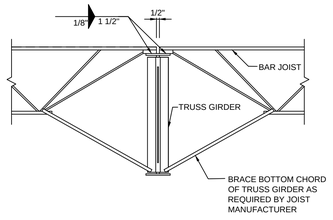


11 S3 TYPICAL PRECAST LINTEL OVER OPENINGS
SCALE: 3/8" = 1'

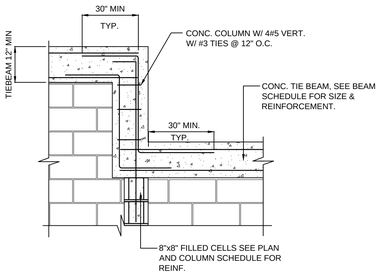
ALTERNATIVE: GC MAY ELECT TO POUR THIS BEAM FULL HEIGHT WITHOUT AN INTERMEDIATE BLOCK LAYER OR PRECAST LINTEL. PROVIDE 2#5 TOP AND BOTTOM AND (1) INTERMEDIATE HORIZONTAL LAYER OF 2 # 5 MUST BE PROVIDED PER EVERY 12" OF CONCRETE DEPTH. #3 TIES @ 24" O/C MUST BE PROVIDED FULL HEIGHT.



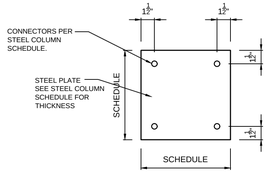
17 S3 STARTER COLUMN DETAIL
SCALE: 1/2" = 1'



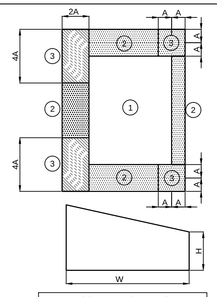
18 S3 BAR JOIST/TRUSS GIRDER CONN.
SCALE: 1" = 1'



14 S3 TYPICAL CHANGE IN TIE BEAM HEIGHT
SCALE: 1/2" = 1'



15 S3 STEEL PLATE DETAIL
SCALE: 1-1/2" = 1'



ROOF WIND ZONE DIAGRAM
ZONE 1 : +14.85, - 37.5 PSF
ZONE 2 : +14.85, - 59.3 PSF
ZONE 3 : +14.85, - 84.8 PSF
A-ZONE : 4.3 FEET

16 S3 WIND ZONE PRESSURE DIAGRAM
SCALE: N.T.S.

FARID ABUGATTAS LICENSE No 72471 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/20/2016

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PROJECT CLASSIC Structural Engineering

PROJECT# 2647

REVISIONS

NO.	DATE	DESCRIPTION

PETMEDS BAILER BUILDING

420 SOUTH CONGRESS AVENUE
DELRAY BEACH, FLORIDA 33445

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SUITE NO.1 FLORIDA 33442 FAX (954) 570-9550 Lic. No. AA 26003089
Brian Bullock Architect AR 95754

SHEET DESCRIPTION

SCALE	DRAWING NUMBER
DATE 05-03-16	S3 OF 4
DRAWN & CHECKED ADS	
JOB NUMBER BP 1608	

STRUCTURAL NOTES

GENERAL
ALL INFORMATION THAT IS STRUCTURAL IN NATURE SHOWN IN THESE STRUCTURAL SHEETS SHALL TAKE PRECEDENCE OVER STRUCTURAL ITEMS IN OTHER TRADES' PLANS .
EXCEPTION: NOTES IN OTHER TRADES' PLANS ADDRESSING SPECIAL ITEMS (SUCH AS MINIMUM CONCRETE STRENGTH FOR FIRE RATING) SHALL GOVERN WHEN MORE STRINGENT THAN HERE SHOWN.

REQUEST FOR INFORMATION
PLEASE USE HAND SKETCHES AND OTHER VISUAL/WRITTEN METHODS TO COMMUNICATE A CONSTRUCTION QUESTION. SEND TO US VIA EMAIL OR FAX.

CONTRACTING NOTES
- GENERAL CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE STRUCTURAL PLANS AND HOW THEY INTERACT WITH OTHER SPECIALTIES PLANS (ARCHITECTURAL, M.E.P., ETC). ALTHOUGH TRADE COORDINATION HAS BEEN PERFORMED, **THIS OFFICE SHALL BE CONTACTED IMMEDIATELY IN CASE THE CONTRACTOR FINDS ANY MISSING, AMBIGUOUS, UNCLEAR OR CONFLICTING INFORMATION.**
- THE CONTRACTOR SHALL ALWAYS KEEP ON SITE THE LATEST REVISION OF THE SIGNED AND SEALED STRUCTURAL PLANS, APPROVED SHOP DRAWINGS AND PRODUCT APPROVALS.
- ALL OPENINGS BELOW 60'-0" TO BE PROTECTED FROM IMPACT OF WINDBOURNE DEBRIS
- GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL ACTIVITIES RELATED TO WORK SAFETY.
- CONSTRUCTION LOADS SHOULD BE CAREFULLY DISTRIBUTED TO AVOID LOADING ANY MEMBERS IN EXCESS OF THEIR CAPACITY.
- THE APPROVAL BY THE STRUCTURAL INSPECTOR OF ANY WORK DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE FLORIDA BUILDING CODE AND THE APPROVED STRUCTURAL PLANS.

PROJECT SPECIFIC CODES USED:
ALL STRUCTURAL ELEMENTS FOR THIS PROJECT HAVE BEEN DESIGNED PER FLORIDA BUILDING CODE, 2014. THIS IMPLIES THE USE OF THE BELOW LISTED CODES (FBC TAKES PRECEDENCE OVER CONFLICTING ITEMS).

PROJECT PLANS, DETAILS & ARCHITECTURAL BACKGROUNDS
ALL DETAILS AND SECTIONS SHOWN ARE INTENDED TO BE TYPICAL UNLESS OTHERWISE SPECIFIED. DETAILS THAT REFERENCE SPECIFIC SCHEDULES ARE INTENDED TO BE SCHEDULES SHALL TAKE PRECEDENCE IN ALL CONFLICTING ITEMS.
ALL ELEMENTS INTENDED TO ORIGINATE FROM OTHER TRADE'S DRAWINGS (ELEVATIONS, PARTITION LOCATIONS, ETC) HAVE BEEN INCLUDED FOR THEIR RELATION TO STRUCTURAL ITEMS ONLY. REFER TO THE CORRESPONDING TRADE'S PLANS FOR FINAL LAYOUTS AND DETAILS.
DO NOT USA A SCALE TO DETERMINE THE DIMENSIONS OF ANY PLAN OR DETAIL DRAWINGS. IF THE DIMENSION NEEDED IS UNAVAILABLE, PLEASE CONTACT THIS OFFICE.

GRAVITY LOADING (ASCE 7-10, CHAPTER, TABLE C3-1 & C3-2)
SEE GRAVITY LOADING CHART FOR DESIGN LOADS.

WIND LOADING (ASCE 7-10)
WIND SPEED=170 MPH (3 SECOND GUST)
EXPOSURE = C
BUILDING TYPE= ENCLOSED, RIGID
MRH= 15.80'
STRUCTURE CATEGORY = II
KD=0.85 - EITHER ASD OR LRFD LOAD COMBINATIONS PER ASCE7-10 HAVE BEEN USED FOR DESIGNING THE VARIOUS STRUCTURAL ELEMENTS IN THIS PROJECT.
INTERNAL PRESSURE COEFFICIENT= +/- 0.18

COMPONENTS & CLADDING DESIGN WIND PRESSURES:
WALLS: +16'-0"
- ZONE 4 = +30.18 PSF, -31.10 PSF
- ZONE 5 = +30.18 PSF, -37.00 PSF

ROOF: SEE ROOF WIND ZONE PRESSURE DIAGRAM FOR ZONE LAYOUT, SIZE AND PRESSURE.

DEFLECTION DESIGN CRITERIA
ALL MEMBERS (BEAMS, SLABS, TRUSSES, JOISTS, ETC) COMPOSING FLOORS HAVE BEEN DESIGNED AND SHALL BE DESIGNED BY THE DELEGATED ENGINEER (IF APPLICABLE) FOR:
- TOTAL LOAD: SPAN / 240
- REINFORCED CONCRETE ELEMENTS: LIVE LOAD + LONG TERM SPAN / 360
- WALL / MULLIONS: L / 175
- OTHER ELEMENTS: LIVE LOAD: SPAN / 480

ROOF MEMBERS SUPPORTING NON PLASTER CEILINGS: LIVE: L/240, TOTAL: L/180 PER FBC TABLE 1604.3

SHALLOW FOUNDATION (SOIL PRESSURE:ASD, FOOTING DESIGN: LRFD)
BOTTOM OF FOOTINGS TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,500 PSF.
SITE PREPARATION (ANY DE-MUCKING,DE-WATERING, PRE-CONSOLIDATION, COMPACTION, PRESCRIBED TESTING OR ANY OTHER PROCEDURE, PRECAUTION OR RECOMMENDATION, AS OUTLINED IN THE SOILS REPORT) TO BE PERFORMED PER SOILS AND SUBSURFACE INVESTIGATION:

NUTTING ENGINEERS OF FLORIDA, INC. ORDEN NO. 11957.23 (MAY 2016)

TOP OF EXTERIOR FOOTINGS SHALL BE MINIMUM 12" BELOW FINISHED GRADE.
PRECAUTIONS TO BE TAKEN PRIOR TO EXCAVATING BESIDE OR UNDERNEATH EXISTING STRUCTURES.
WHERE ADJACENT TO RETAINING WALLS OR POOL WALLS, BASE OF FOOTINGS SHALL BE DEEP ENOUGH AS TO BE LEVEL WITH THE FOOTING/BASE OF THE ADJACENT RETAINING WALL/POOL.
ALL ISOLATED FOOTINGS ARE INTENDED TO BE CENTERED WITH THE COLUMN THEY SUPPORT, U.N.O.
THE SOILS ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO SUPERVISE, INSPECT, VERIFY AND/OR CORRECT ANY SOILS CONDITIONS NECESSARY TO ACHIEVE THE SUPPORT OF THE PROPOSED STRUCTURE.
THE CONTRACTOR SHALL DE-WATER THE SITE FOR FOOTING CONCRETE TO BE PLACED AGAINST DRY SOIL.

VIBRATORY COMPACTION EQUIPMENT WILL CAUSE VIBRATIONS THAT WILL TRAVEL TO NEIGHBORING PROPERTIES AND CAUSE DAMAGE AND DISRUPTION. VIBRATION LEVELS SHALL BE MONITORED DURING OPERATIONS TO GUARANTEE A MAXIMUM WILL NOT BE EXCEEDED DEPENDING ON THE SENSITIVITY OF ADJACENT PROPERTIES. THE CONTRACTOR SHALL CONSIDER PERFORMING A CONDITION SURVEY OF ADJACENT PROPERTIES BEFORE AND AFTER COMPACTION OPERATIONS IN CASE DAMAGES OCCUR THAT WILL NEED TO BE REPAIRED.

3000 PSI CONCRETE (ACI 318-11, 315-08, LRFD)
READY MIX CONCRETE TO ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI FOR ALL STRUCTURAL ELEMENTS (INCLUDING, BUT NOT LIMITED TO FOOTINGS, SLABS, BEAMS, COLUMNS) UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS. SLABS ON GRADE SHALL BE PERMITTED TO BE POURED WITH 2500 PSI CONCRETE.

SLABS ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC: SHALL COMPLY WITH ASTM A-185. FABRIC SHALL BE PLACED $\frac{1}{3}$ FROM THE TOP OF THE SLAB. LAPS SHALL BE 6" MIN. WWM SHALL BE OVERLAPPED 30" AT PERIMETERS.
CONCRETE MIX SUBMITTALS SHALL DESCRIBE WHICH LOCATION IN THE STRUCTURE THE MIX IS TO BE PLACED.

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CONCRETE PLACEMENT
ACI347.2R-10, 4.5: NO WORKER SHALL BE ALLOWED DIRECTLY UNDER THE FORMS DURING CONCRETE PLACEMENT.
CURING AGENTS USED ON ROOFS SHALL BE CHECKED FOR COMPATIBILITY WITH ROOFING MATERIALS.

CONCRETE TIE BEAM
GENERAL CONTRACTOR IS TO VERIFY BEAM DEPTH & ELEVATIONS WITH ARCHITECTURAL PLANS & NOTIFY ARCHITECT OF ANY DISCREPANCIES. COORDINATE MASONRY OPENINGS WITH WINDOW MANUFACTURER & N.O.A.
FOR ARCHED BEAMS ADD (2) # 5'S DIAGONAL EACH END OF THE BEAM. ADD (1) EXTRA #5 DIAGONAL EACH SIDE FOR EVERY 4" EXTRA WIDTH.
BEAM DEPTHS ARE MINIMUM REQUIRED, ADD 2#5 MIDDLE FOR EVERY ADDITIONAL 12" OF DEPTH REQUIRED

TYPICAL TIE BEAM OVER WALLS TO BE (PER FBC 2121.2.3.2) 8"x12" w/ (2) #5's TOP AND BOTTOM. (4) #3 TIES @ EACH SIDE OF EVERY BEND, CORNER AND TRANSITION. TIE BALANCE @48" O/C. TIE BEAM DROPS DOWN TO TOP OF OPENING - SEE FRAMING PLANS.
FOR WIDER THAN 8" TIE BEAMS, INCREASE TOP AND BOTTOM LONGITUDINAL STEEL BY (1) # 5 PER EXTRA 4" OF WIDTH.

"PCL" REFERS TO PRECAST LINTEL MANUFACTURED BY CASTCRETE WITH NOA # 14-0903.03. USE 12" WIDE LINTEL FOR 12" THICK WALLS
TIES AT INTERMEDIATE AND END SUPPORT SPACING REFERS TO TIES TO EACH SIDE OF EACH INTERMEDIATE COLUMN OR WALL SUPPORT
BALANCE REFERS TO THE SPACING OF THE REMAINING TIES AFTER THE TIES AT EACH END HAVE BEEN INSTALLED. IF NO END TIES SHOWN, USE BALANCE THROUGHOUT THE ENTIRE LENGTH OF THE BEAM.
GC TO VERIFY DEPTH OF BEAMS WITH WINDOW AND DOOR HEIGHTS. COORDINATE WITH GLAZING MANUFACTURER.
WHEN THE BEAM SPECIFIED IN THE STRUCTURAL PLAN RUNS OVER A CMU WALL, IT'S ACTUAL WIDTH IS TO BE THE ACTUAL WIDTH OF THE WALL, WHICH WOULD BE 7-5/8" OVER 8" CMU.

BOND BEAM
GENERAL CONTRACTOR IS TO VERIFY BEAM DEPTH & ELEVATIONS WITH ARCHITECTURAL PLANS & NOTIFY ARCHITECT OF ANY DISCREPANCIES. COORDINATE MASONRY OPENINGS WITH WINDOW MANUFACTURER & N.O.A.
FOR ARCHED BEAMS ADD (2) # 5'S DIAGONAL EACH END OF THE BEAM. ADD (1) EXTRA #5 DIAGONAL EACH SIDE FOR EVERY 4" EXTRA WIDTH.
BEAM DEPTHS ARE MINIMUM REQUIRED, ADD 2#5 MIDDLE FOR EVERY ADDITIONAL 12" OF DEPTH REQUIRED

TYPICAL BOND BEAM OVER WALLS TO BE (2) COURSES OF 8x8 KNOCK OUT BLOCK WITH LONGITUDINAL CONTINUOUS IN EACH COURSE. LAPS TO BE 30". USE (2) #5x30"x30" CORNER BARS AT EVERY CORNER, T-INTERSECTION OR VERTICAL TRANSITION.
FOR 12" AND 16" WIDE TIE BEAMS, INCREASE TOP AND BOTTOM LONGITUDINAL STEEL TO (3) # 5

"PCL" REFERS TO PRECAST LINTEL MANUFACTURED BY CASTCRETE WITH NOA # 14-0903.03. USE 12" WIDE LINTEL FOR 12" THICK WALLS
TIES AT INTERMEDIATE AND END SUPPORT SPACING REFERS TO TIES TO EACH SIDE OF EACH INTERMEDIATE COLUMN OR WALL SUPPORT
BALANCE REFERS TO THE SPACING OF THE REMAINING TIES AFTER THE TIES AT EACH END HAVE BEEN INSTALLED.IF NO END TIES SHOWN, USE BALANCE THROUGHOUT THE ENTIRE LENGTH OF THE BEAM.
GC TO VERIFY DEPTH OF BEAMS WITH WINDOW AND DOOR HEIGHTS. COORDINATE WITH GLAZING MANUFACTURER.

CONCRETE TESTING
QUALIFIED FIELD TESTING TECHNICIANS SHALL PREPARE SPECIMENS REQUIRED FOR CURING UNDER FIELD CONDITIONS AND RECORD THE TEMPERATURE OF THE FRESH CONCRETE WHEN PREPARING SPECIMENS FOR LABORATORY STRENGTH TESTS.

ACCOUNTING SEPARATELY FOR EACH CLASS OF CONCRETE AND EACH DAY, ONE TEST (CONSISTING OF BREAKING (2) 6"Ø DIAMETER x 12" HIGH CONCRETE CYLINDER SAMPLES, MOLDED AS PER ASTM C31 AND TESTED PER ASTM C39) SHALL BE PERFORMED ACCORDING TO THE MOST FREQUENT OF:
- ONCE A DAY
- ONCE EVERY 150 CUBIC YARDS
- ONCE EVERY 5000 SQUARE FEET OF SLAB OR WALL SURFACE AREA

7 DAY, 14 DAY AND 28 DAY TEST REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. THE CLIENT SHALL RETAIN A REPUTABLE TESTING COMPANY TO BE ON SITE AT THE TIME OF CONCRETE POUR AND INDEPENDENTLY COLLECT CYLINDERS AND PERFORM COMPRESSIVE TESTING.

IF LESS THAN 50 CUBIC YARDS ARE USED FOR A SINGLE CLASS OF CONCRETE, TESTING IS NOT REQUIRED IF SUFFICIENT EVIDENCE IS PROVIDED TO THE BUILDING OFFICIAL.

CONCRETE REINFORCEMENT (ACI 318-11, 315, LRFD)
TEMPERATURE REINFORCEMENT IN STRUCTURAL SLABS SHALL BE INSTALLED CONTINUOUSLY (WITHOUT BREAKS OR INTERRUPTIONS) IN ALL AREAS OF THE SLAB AND RUNS PERPENDICULAR TO THE MAIN REINFORCEMENT. OVERLAP TEMPERATURE BARS WHERE NEEDED A MIN OF 24"

CONCRETE REINFORCEMENT BARS, STIRRUPS AND TIES SHALL BE IN ACCORDANCE WITH ASTM A-615 (GRADE 60). REINFORCING BARS THAT ACT AS LAP DOWELS AND ARE TO BE WELDED TO STRUCTURAL STEEL SHALL CONFORM TO ASTM A-706 (GRADE 60). REINFORCING BARS CONTAINING A LIGHT COAT OF RUST SHALL BE ALLOWED.
ACI HOOKS TO BE PROVIDED FOR ALL REQUIRED CONDITIONS PER DETAILS PRESENTED IN THIS PROJECT.

FIELD WATER IS NOT PERMITTED TO BE ADDED TO THE CONCRETE MIX.

ALL EXTERIOR SLAB REBAR SHALL BE SEPARATED BY PLASTIC CHAIRS FROM ANY CONCRETE FACES.
WELDED REINFORCEMENT SHALL CONFORM TO AWS D1.4 OR BE ASTM A706 GRADE 60.
ANCHOR EMBEDMENT LENGTH INCLUDE STRUCTURAL CONCRETE ONLY (DOES NOT INCLUDE STUCCO).
ALL CONCRETE SURFACES TO BE KEPT IN A MOIST CONDITION FOR 7 DAYS AFTER POUR.

CONCRETE COVER SHOULD BE AS FOLLOWS UNLESS NOTED OTHERWISE:

CONCRETE PLACED DIRECTLY IN CONTACT WITH GROUND:
ALL BAR SIZES 3"
FACE OF CONCRETE ELEMENT EXPOSED TO WEATHER OR GROUND AFTER FORM REMOVAL:
#5 BARS OR SMALLER 1-1/2"
ALL OTHER BAR SIZES 2"
FACE OF CONCRETE ELEMENT NOT EXPOSED TO WEATHER OR GROUND
SLABS, CAST IN PLACE WALLS $\frac{3}{4}$"
BEAMS AND COLUMNS 1-1/2"

COLUMN AND FILLED CELL LAP SPLICES SHALL BE 48 BAR DIAMETERS.
THE CONTRACTOR SHALL ALLOW FOR AN ADDITIONAL 1% AMOUNT OF REBAR TO BE USED AT THE DISCRETION OF THE STRUCTURAL INSPECTOR IN ORDER TO RECTIFY OR STRENGTHEN ANY CONDITIONS FOUND TO BE CRITICAL DURING CONSTRUCTION.

ALL OTHER TRADES PLANS SHALL BE VERIFIED TO IDENTIFY THE LOCATION OF DEPRESSIONS, RECESSES, PIPES, PENETRATIONS, SLEEVES, ETC.

ALL FRESH CONCRETE TO EXISTING CONCRETE CONTACT FACES SHALL HAVE AN APPROVED FRESH CONCRETE EPOXY BONDING AGENT APPLIED AS PER THE MANUFACTURER'S SPECIFICATIONS.

ALL FORMS SHALL BE CLEANED WITH COMPRESSED AIR IN ORDER TO REMOVE ANY DIRT, LAITANCE, DEBRIS, ETC, PRIOR TO THE PLACEMENT OF ANY CONCRETE.

ANCHORING SPECIFICATIONS
CONCRETE SCREWS SHALL BE HILTI KWIK-CON II (NOA#12-0625.05)
EXPANSION BOLTS SHALL HAVE A LENGTH IDENTIFYING LABEL AND BE HILTI KWIK BOLT 3 OR EQUAL.

EPOXY SPECIFICATIONS
EPOXY SHALL BE HILTI HIT HY 150 MAX.
INSTALL ACCORDING TO THE MANUFACTURING SPECIFICATIONS USING THE CORRECT DRILL BIT DIAMETER, AIR BLOWER AND BRUSH IN THE RECOMMENDED SEQUENCE AND REPETITION.
INSTALL EPOXY ANCHORS AFTER ACHIEVING THE SPECIFIED COMPRESSIVE STRENGTH.

NOMINAL AND TRUE THICKNESS MEMBERS
THE FOLLOWING ARE MEMBERS IN WHICH THE NOTED THICKNESS AND WIDTH IN PLAN AND SCHEDULE IS INTENDED TO BE THE EXACT MEASUREMENT OF THE ACTUAL BUILT MEMBERS.
- ALL CONCRETE SLABS
- INTERIOR CONCRETE BEAMS AND COLUMNS
- FOOTINGS, GRADE BEAMS AND PILES
- STRUCTURAL STEEL MEMBERS (COLUMNS, BEAMS AND CONNECTION MEMBERS)

THE FOLLOWING MEMBERS HAVE THEIR NOMINAL DIMENSIONS NOTED AND THE ACTUAL DIMENSION VARIES:
- CONCRETE COLUMNS AND TIE BEAMS IN-LINE WITH MASONRY WALLS, WHERE THE COLUMN THICKNESS SHALL MATCH THE WALL NET THICKNESS.

DRESSED LUMBER

CONSTRUCTION JOINTS
A CONTROL AND CONSTRUCTION JOINT LAYOUT SHALL BE PROPOSED BY THE GENERAL CONTRACTOR FOR REVIEW BY THIS OFFICE. ALL INTERMEDIATE STEEL COLUMNS SHALL BE ISOLATED BY JOINTS AS DEPICTED BY THE INCLUDED DETAIL IN THIS SET OF DRAWINGS. THE WIDTH OR LENGTH OF SLAB PANELS (DELIMITED JOINTS) SHALL BE WITHIN THE RANGE OF 24 TO 36 TIMES THE THICKNESS OF THE CONCRETE SLAB.

DRAINAGE
ALL EXTERIOR FLAT SURFACES SHALL BE SLOPED TO DRAINS AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
ALL ELEVATED ENCLOSED SURFACES SHALL BE PROVIDED WITH SCUPPERS PER ARCHITECTURALS.

STRUCTURAL STEEL (AISC LRFD)
CONTRACTOR SHALL RETAIN A STRUCTURAL STEEL FABRICATOR THAT WILL MODEL THE STEEL MEMBERS, THEIR GEOMETRY AND THE CONNECTIONS BETWEEN EACH IN ORDER IN A 3D STRUCTURAL STEEL DETAILING PROGRAM IN ORDER TO GENERATE SHOP DRAWINGS SHOWING THE CONNECTIONS TO SCALE. THESE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THIS OFFICE PRIOR TO FABRICATION.

ALL STRUCTURAL STEEL SHALL COMPLY WITH AISC LRFD 13TH EDITION.
STEEL BEAMS, C-CHANNELS AND MC-CHANNELS SHALL COMPLY WITH ASTM A992 (GRADE 50).
STEEL RECTANGULAR / SQUARE COLUMN SECTIONS - ASTM A-500 (Fy=46 KSI), GRADE B.
STEEL CIRCULAR COLUMN SECTIONS - ASTM A-500 (Fy=42 KSI), GRADE B.
STEEL ANGLES AND S-SHAPES SHALL CONFORM TO ASTM A36.
ALL STEEL BOLTS AND THREADED RODS, UNLESS NOTED OTHERWISE ON THE PLANS TO BE ASTM A307, GRADE A AND INSTALLED TO A SNUG TIGHT CONDITION (DEFINED AS BEING TIGHTENED BY THE FULL EFFORT OF A WORKER USING A REGULAR SPUD WRENCH).
BOLT NUTS TO BE ASTM A563.
ALL STRUCTURAL STEEL (NOT INCLUDING REBAR) TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT. AFTER INSTALLATION A FIELD TOUCH UP SHALL BE APPLIED.
UNLESS THE JOBSITE IS FURTHER THAN 2 MILES FROM THE OCEAN, ANY STRUCTURAL STEEL THAT IS TO BE EXTERIOR TO THE BUILDING ENVELOPE SHALL BE HOT DIP GALVANIZED.
ALL SHEAR STUDS SHALL BE TYPE B, ASTM A108 (Fu = 65 ksi)
ALL CABLES SHALL BE STAINLESS STEEL 6x19 WIRE ROPE - TYPE 304, IN COMPLIANCE WITH ASCE19-10 PROVISIONS.

DO NOT CUT THE TOP STEEL PLATES IN ORDER TO ALLOW CONCRETE FROM THE TIE BEAM TO FILL THE STEEL COLUMN. IF CONCRETE FILLED STEEL COLUMNS ARE REQUIRED BY THE STEEL COLUMN SCHEDULE OR THE ARCHITECT, THEY SHALL BE FILLED IN THE FABRICATING SHOP PRIOR TO PLATE WELDING.

ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (ASW D1.1), TO PERFORM THE TYPE OF WORK REQUIRED. ALL STEEL WELDING RODS SHALL BE E70XX ELECTRODES.

ALL STEEL BEAM CONNECTIONS ARE INTENDED TO SIT DIRECTLY ON TOP OF TOP PLATES OF HOLLOW STEEL TUBE COLUMNS (NOT TO THE SIDE OF STEEL TUBE COLUMNS). DO NOT CUT TOP PLATES OF STEEL COLUMNS TO BE FILLED WITH GROUT.

ALL STEEL BEAMS CONNECTIONS TO EMBED PLATES ON CONCRETE SHALL BE DONE AFTER CONCRETE HAS REACHED 70% OF THE SPECIFIED COMPRESSIVE STRENGTH (VERIFY WITH THE 7 DAY CONCRETE SPECIMEN BREAK RESULTS).

DO NOT CUT THE HEADS OR NUTS OF ANY BOLTS THAT PROTRUDE PAST THE STEEL PLATES OF STEEL BUCKETS WITHOUT PRIOR CONSULTATION WITH THIS OFFICE.

ALTERATIONS, ADDITIONS AND RENOVATIONS:
PROJECTS OF THIS NATURE HAVE BEEN DESIGNED TO THE BEST OF KNOWLEDGE OF THIS OFFICE WITH RESPECT TO THE EXISTENCE, LOCATION AND CONDITION OF ANY EXISTING STRUCTURAL ELEMENTS. IN CASE OF ANY DISCREPANCIES BETWEEN THESE ASSUMPTIONS AND THE ACTUAL CONDITIONS DISCOVERED DURING CONSTRUCTION, NOTIFY THIS OFFICE FOR EXISTING CONDITIONS ANALYSIS AND DESIGN ADJUSTMENTS.

DIMENSIONS OF EXISTING STRUCTURES SHALL BE FIELD VERIFIED TO BE COMPATIBLE WITH PROPOSED WORK.
NO EXISTING STRUCTURAL ELEMENTS MAY BE CUT WITHOUT PRIOR AUTHORIZATION FROM THIS OFFICE.
DO NOT CUT TRENCHES IN EXISTING FLOOR SLAB WITHOUT PRIOR CONSULTATION WITH THIS OFFICE.

IF EXISTING STRUCTURAL ELEMENTS ARE BEING MODIFIED, CONTRACTOR MUST SECURELY PROVIDE TEMPORARY SUPPORT PRIOR TO DEMOLITION. CONTRACTOR MUST HIRE THE SERVICES OF A SPECIALTY RE-SHORING ENGINEER IN THE CASE OF MAJOR ALTERATIONS THAT ESCAPE STANDARD SHORING PRACTICES.

MASONRY (TMS402-11/ACI 530/ASCE 5, ASD)
THIS PROJECT IS DESIGNED AS ENGINEERED UNIT MASONRY. STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH ACI 530/ASCE 5/TMS 402-11, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND THE COMMENTARY ON BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

MASONRY UNITS SHALL BE ASTM C-90 TYPE II WITH MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA OF INDIVIDUAL UNITS PER FBCR 606.4. ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR IN RUNNING BOND U.O.N. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A-615 GRADE 60. ALL CMU WALL UNDERGROUND SHOULD BE SOLID GROUTED

ALL MORTAR SHALL BE TYPE S IN ACCORDANCE WITH ASTM SPECIFICATION C-270 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. NO TESTING FOR MORTAR STRENGTH IS REQUIRED FOR THIS PROJECT. MORTAR MAY BE RE-TEMPERED WITH WATER TO REGAIN WORKABILITY FOR NO MORE THAN 2.5 HOURS AFTER INITIAL MIXING.

GROUT SHALL BE A HIGH SLUMP MIX (8"-11") IN ACCORDANCE WITH ASTM SPECIFICATION C-476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

PROVIDE 9 GAUGE HORIZONTAL JOINT REINFORCEMENT (LADDER TYPE ONLY) AT EVERY SECOND COURSE FOR ALL EXTERIOR WALLS. THIS REINFORCEMENT SHALL EXTEND MIN 4" INTO ALL CONCRETE COLUMNS.

IN THE HIGH VELOCITY HURRICANE ZONE (BROWARD AND DADE COUNTIES) ALL CONCRETE MASONRY, TIE BEAMS, TIE COLUMNS, ETC SHALL BE INSPECTED BY A REGISTERED ENGINEER BEFORE CONCRETE POUR. UPON INSPECTION APPROVAL, AN ENGINEERING SIGNED, SEALED AND DATED LETTER WILL BE PROVIDED TO THE GENERAL CONTRACTOR AS REQUIRED BY THE AHJ.
NO PIPES OR CONDUITS ARE ALLOWED IN MASONRY CELLS CONTAINING A REINFORCING BAR.

IN THE HIGH VELOCITY HURRICANE ZONE (BROWARD AND DADE COUNTIES) FOR REINFORCED UNIT MASONRY, MANDATORY INSPECTION REQUIRES A LEVEL B QUALITY ASSURANCE PROGRAM AS DESCRIBED BY MSJC TABLE 4, WHICH STATES THE GENERAL CONTRACTOR SHALL PROVIDE TO THE INSPECTOR CERTIFICATES OF MATERIALS USED IN MASONRY CONSTRUCTION, SUCH AS MASONRY BLOCK COMPLYING WITH ASTM C90, THE MINIMUM NET COMPRESSIVE BLOCK STRENGTH OF 1900PSI AND THE GRADE OF STEEL DEFORMED REINFORCEMENT TO BE ASTM A615. THE SPECIAL INSPECTOR SHALL VERIFY GROUT SPACES, LADDER TYPE REINFORCEMENT, REINFORCEMENT DIAMETER AND LOCATIONS FOR WALLS, TIE BEAMS AND CONCRETE COLUMNS.

SHOP DRAWINGS:
FLOOR AND ROOF SYSTEM SHOP DRAWINGS WILL NOT BE STAMPED UNTIL THE FOLLOWING PARTIES HAVE STAMPED AND:
- GENERAL CONTRACTOR HAS VERIFIED:
  - -FIELD DIMENSIONS
  - -AS BUILT VARIATIONS WHICH MAY AFFECT CONNECTION DETAILS
  - -GENERAL COMPLIANCE WITH THE APPROVED PLANS
- ARCHITECT HAS VERIFIED:
  - -INTERFERENCE BETWEEN THE SHOP DRAWING ELEMENTS AND CEILING HEIGHTS, COFFERS, VAULTS AND ANY OTHER GEOMETRICAL CEILING FEATURES.
  - -LENGTH OF OVERHANG, RIDGE LINES AND ROOF PITCH
  - -MINIMUM AREAS DESIGNATED FOR STORAGE SPACES.
  - -EXTERIOR WALL RECESSES

GENERAL CONTRACTOR TO PROVIDE THIS OFFICE WITH SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY THE DELEGATED ENGINEER FOR APPROVAL. CONTRACTOR TO ANTICIPATE FOR TIME OF REVIEW, ADJUSTMENT AND RESUBMITTAL. SAID DRAWINGS SHALL BE ENGINEERED TO COMPLY WITH THE DESIGN PARAMETERS SPECIFIED IN THESE PLANS BUT IN NO CASE LESS THAN THE MINIMUMS REQUIRED BY THE ABOVE MENTIONED CODES. DESIGN PARAMETERS USED AND ALL LOADS FROM SPECIALTY MEMBERS ACTING AGAINST THE SUBSTRUCTURE SHALL BE CLEARLY IDENTIFIED IN THE REVIEW PACKAGE.

STEEL ROOF DECK
SIDELAPS SHALL CONSIST OF A MINIMUM OF 2" THIS PROVIDES 1" MIN EDGE DISTANCE TO SIDELAP FASTENERS.

ROOF STEEL DECK TO BE G-90 GALVANIZED AND SHALL BE AS SHOWN THE ON ROOF PLANS. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. ALL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.

ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS FOLLOWING AWS D1.3 PROCEDURE.
WELDING WASHERS ARE TO BE USED ON ALL CONNECTIONS OF STEEL DECK WITH METAL THICKNESS THINNER THAN 22 GA. TO STRUCTURAL STEEL SUPPORTS.

PROVIDE $\frac{5}{8}$" PUDDLE WELDS AT 5" O/C ALONG DIAPHRAGM PERIMETER EDGE SUPPORT.

STEEL JOISTS
ALL JOISTS SHALL HAVE A SHOP COAT OF RUST INHIBITIVE NON-BITUMINOUS PAINT. DELEGATED ENGINEER TO DESIGN ROOF JOISTS FOR A NET UPLIFT LOAD OF 35 PSF.

ALL BRIDGING TO BE SPECIFIED AND PROVIDED BY DELEGATED ENGINEER. BRIDGING ATTACHMENT TO STRUCTURE SHALL BE AS DETAILED BY THE ENGINEER OF RECORD.
K SERIES JOISTS SHALL BEAR 4" OVER A STEEL EMBED PLATE SUPPORTED BY A CMU OR CONCRETE WALL.
K SERIES JOISTS SHALL BEAR 2.5" OVER STEEL BEAMS
LH SERIES JOISTS SHALL BEAR 6" OVER A STEEL EMBED PLATE SUPPORTED BY A CMU OR CONCRETE WALL.
LH SERIES JOISTS SHALL BEAR 4" OVER STEEL BEAMS.

BOTTOM CHORD BRIDGING SHALL BE PROVIDED TO ALL JOISTS (COMPOSITE, NON-COMPOSITE, ROOF AND FLOOR) IN ACCORDANCE WITH THE SJI SPECIFICATION.

ABBREVIATION LEGEND:
ADDL - ADDITIONAL
AB - ANCHOR BOLT
ACI - AMERICAN CONCRETE INSTITUTE
AISI - AMERICAN IRON AND STEEL INSTITUTE
AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL - ALUMINUM
ASD - ALLOWABLE STRESS DESIGN
BAL - BALANCE, REMAINING
BP - BASE PLATE
BOT - BOTTOM
CANT - CANTILEVERED
CIP - CAST IN PLACE
CL - CENTER LINE
CLG - CEILING
CLR - CLEAR
CONC - CONCRETE
COL - COLUMN
CJ - CONTROL JOINT / CONSTRUCTION JOINT
CONN. - CONNECTION
CMU - CONCRETE MASONRY UNIT
DBA - DEFORMED BAR ANCHOR
DET - DETAIL
DL - DEAD LOAD
DIA - DIAMETER
DIM - DIMENTION
EA - EACH
E.E. - EACH END
E.W. - EACH WAY
EWTB - EACH WAY, TOP AND BOTTOM
EF - EACH FACE
EJ - EXPANSION JOINT
FBC - FLORIDA BUILDING CODE
FF - FINISHED STRUCTURAL FLOOR ELEVATION
FR - FINISHED STRUCTURAL ROOF
FNDN - FOUNDATION
FRMNG - FRAMING
ELEVATION
FTG - FOOTING
GA - GAUGE
GC - GENERAL CONTRACTOR
HS - HEADED STUD / NELSON STUD
HC - HOLLOWCORE
HDG - HOT DIPPED GALVANIZED
HSS - HOLLOW STRUCTURAL SECTION
KLF - 1000 PER LINEAR FOOT
KO - KNOCK-OUT
KSI - 1000 LB PER SQUARE INCH
LW - LONG WAY
LRFD - LOAD AND RESISTANCE FACTOR DESIGN
LL - LIVE LOAD
LLBB - STEEL ANGLES WITH LONG LEGS BACK TO BACK
MCJ - MASONRY CONTROL JOINT
MO - MASONRY OPENING
MFR - MANUFACTURER
MIN - MINIMUM
MID - MIDDLE
MISC - MISCELLANEOUS
NTS - NOT TO SCALE
O/C - ON CENTER SPACING
OD - OUTSIDE DIAMETER
PT - PRESSURE TREATED WOOD
PSI - 1 LB PER SQUARE INCH
PSF - 1 LB PER SQUARE FOOT
PLF - 1 LB PER LINEAR FOOT
PL - PLATE
R.S. - RING SHANK NAIL
RC - REINFORCED CONCRETE
REINF - REINFORCEMENT
SDS - SELF DRILLING SCREW
STD - STANDARD
SLBB - STEEL ANGLES WITH SHORT LEGS BACK TO BACK
SCHED- SCHEDULE
SJI - STEEL JOIST INSTITUTE
SDI - STEEL DECK INSTITUTE
SW - SHEAR WALL
SW - SHORT WAY
TON - 2000 LB
TYP - TYPICAL
T/ - MEMBER'S TOP ELEVATION
T/STRUCTURE - THE TOP ELEVATION OF THE CONCRETE SLAB, BEAM OR PLYWOOD. ARCHITECTURAL FINISHES ARE APPLIED ABOVE THIS ELEVATION.
TS - TUBE STEEL (HOLLOW STRUCTURAL SECTION)
TOS - TOP OF SLAB
TOB - TOP OF BEAM
UNO - UNLESS NOTED OTHERWISE
U= - UPLIFT VALUE IN LB
VERT - VERTICAL
VIF - VERIFY IN FIELD
VB - VAPOR BARRIER
W/ - WITH
WWF - WELDED WIRE FABRIC
Ø - DIAMETER
1 KIP - 1000 LB

6/20/2016

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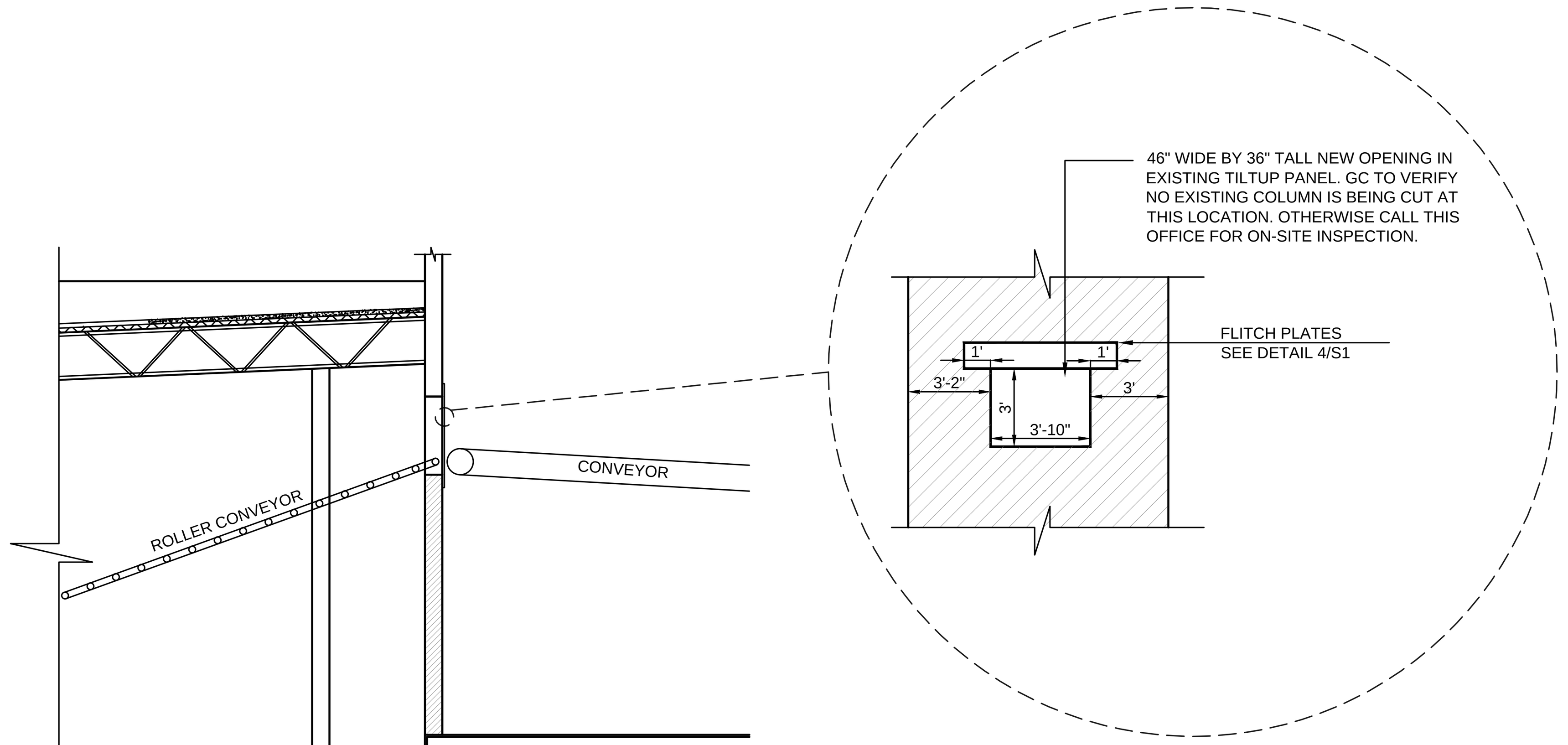
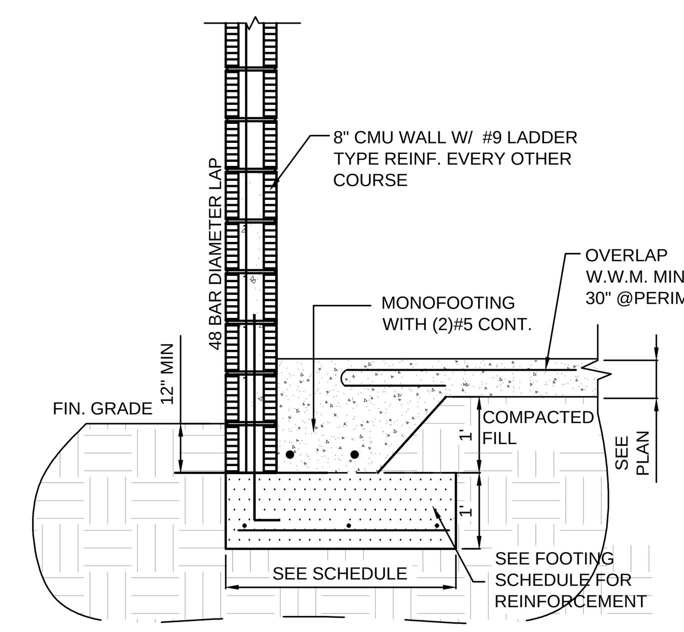


1 / S4 ELEVATION
SCALE: 3/16" = 1'



2 / S4 8" CMU - 24x12 FTG.
SCALE: 1/2" = 1'

REVISIONS		
NO.	DATE	DESCRIPTION

W
S N
E

PETMEDS BAILER BUILDING
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DELRAY BEACH, FLORIDA 33445

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CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION. THESE DRAWINGS MUST NOT BE SCALED.

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Architect
AR 95754

SHEET DESCRIPTION

SCALE	DRAWING NUMBER
DATE 05-03-16	S4
DRAWN & CHECKED ADS	OF 4
JOB NUMBER BP 1608	

GENERAL NOTES

NO.	DESCRIPTION
1.	THE PURPOSE OF THIS DRAWING IS TO PROVIDE POWER ROUTING AND CONSTRUCTION DETAILS. THESE PLANS DETAIL THE FINAL ARRANGEMENT OF EQUIPMENT AND THEIR ASSOCIATED APPENDAGES. THE SCOPE OF THIS PROJECT IS THE LOCAL LIGHTING AT THE BAILER BUILDING. THESE PHOTOMETRICS ARE BASED ON NEW LOCAL LIGHTING. EXISTING PARKING/DRIVE LIGHTING IS TO REMAIN.
2.	ANY AND ALL QUESTIONS AS TO THE INTENT OF, OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE SUBMISSION OF A BID. LACK OF KNOWLEDGE OR UNDERSTANDING OF PLANS SHALL NOT JUSTIFY ANY CLAIMS OR EXTRA COMPENSATION.
3.	ALL SYMBOLS MAY NOT BE USED FOR THIS PROJECT.
4.	PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL: a. VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. b. PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH THE UTILITY'S REPRESENTATIVE. c. NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO COMPLETE NEW CONSTRUCTION.
5.	NEW ELECTRICAL SERVICE EQUIPMENT SHALL MATCH EXISTING A.I.C RATING. EXISTING EQUIPMENT A.I.C. RATING MAY DIFFER.
6.	CONTRACTOR TO CONFIRM CABLE LENGTH FROM UTILITY TRANSFORMER/METER TO FIRST CONNECTION POINT MEET THE NEC MINIMUM VOLTAGE DROP REQUIREMENTS.
7.	ELECTRICAL CONTRACTOR SHALL VERIFY THE HEIGHT OF ALL EQUIPMENT PRIOR TO INSTALLATION.
8.	SWITCHES ARE TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
9.	ALL EXTERIOR EQUIPMENT TO BE NEMA 3R RATED.
10.	PROIVDE POWER DROP ALONG STRUCTURAL COLUM AND ROUTE CONDUIT OVERHEAD THROUGH FIELD ROUTED RACEWAYS TO EQUIPMENT LOCATIONS FOR POWER DATA AND COMPRESSED AIR BELOW EQUIPMENT.
11.	ELECTRICAL CONTRACTOR SHALL VERIFY THE HEIGHT OF ALL EQUIPMENT PRIOR TO INSTALLATION.
12.	SWITCHES ARE TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

CONDUIT

1. ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE EMT (ELECTRICAL METALLIC TUBING) INSIDE THE BUILDING AND RIGID STEEL ON THE EXTERIOR EXPOSED FROM 5' ABOVE GRADE. CONDUIT BELOW GRADE SHALL BE RIGID STEEL CONDUIT WITH TWO COATS OF BITUMINOUS COATING, OR BE SCHEDULE 40 PVC.
2. MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE
3. USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT CONDUIT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS.
4. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.
5. DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
6. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE NEC.
7. PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE NEC.
8. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
9. IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A LOW VOLTAGE RACEWAY OR MEANS TO RUN WIRES FROM THE EQUIPMENT, LOCATED AT THE CONTROL DESK, TO THE APPROACH AREA, AND FROM THE CONTROL DESK TO THE BACK OFFICE. ADDITIONAL LOW VOLTAGE CABLES ARE ROUTED FROM THE BACK OFFICE TO THE CLOSEST END LANE PAIR PINSETTER AREA. VARIOUS WAYS OF DOING THIS CAN BE DISCUSSED WITH THE BRUNSWICK SERVICE REPRESENTATIVE AT THE TIME OF THE SURVEY.
10. WHEN ROUTING THE LOW VOLTAGE CONDUIT OR INTERCONNECTING CABLES, EXTRA CARE MUST BE EXERCISED SO AS TO NOT PLACE THEM NEAR A NOISY ELECTRICAL ENVIRONMENT.

SPECIFICATIONS

NO.	DESCRIPTION
1.	DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR THE EXACT LOCATION OF EQUIPMENT, CABLEWAYS OR OTHER ITEMS. REFER TO THE ARCHITECTURAL PLAN AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFIRM WITH OWNERS' REPRESENTATIVES.
2.	THESE PLANS DO NOT SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND MEET ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
3.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE, 2012 EDITION OF NFPA 101, 2010 EDITION OF NFPA 72, 2014 EDITION OF FBC WITH REVISIONS. IN ADDITION, ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, AND ORDINANCES.
4.	THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250, NATIONAL ELECTRICAL CODE.
5.	THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER, LIGHT COMPANY AND TELEPHONE COMPANY.
6.	ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS, WORKMAN-LIKE MANNER. THE COMPLETED SYSTEM SHALL BE OPERATIVE AND ACCEPTANCE BY ENGINEER/ARCHITECT SHALL BE A CONDITION OF ANY SUB-CONTRACT.
7.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY THE OWNER OR OWNERS REPRESENTATIVE
8.	ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED FOLLOWING THE ISSUE OF APPROVED DRAWINGS SHALL BE PAID FOR BY THE CONTRACTOR.
9.	ALL 120V GENERAL BRANCH CIRCUITS, CARBON MONOXIDE/SMOKE ALARM COMBO UNITS & LIGHTS TO BE PROTECTED BY ARC INTERRUPTING CIRCUIT BREAKER-PER NEC. EXCEPTION IS GFI CIRCUIT TYPE BREAKERS FOUND IN KITCHEN, BATHROOM, GARAGES, AND OUTDOOR. PROVIDE TAMPER RESISTANT TYPE RECEPTICLES PER NEC, NORMALLY USED FOR GENERAL POWER AND ILLUMINATION.
10.	UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER, WITH "THHN" INSULATION FOR SIZE #10 AND SMALLER. CONDUCTORS LARGER THAN #10 SHALL HAVE "THWN" INSULATION. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
11.	THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS.
12.	THE CONTRACTOR SHALL BE THOROUGHLY FAMILIARIZED WITH ALL ASPECTS OF THE PROJECT AND SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
13.	ALL INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES TO AVOID IMPACTS.
14.	ALL REQUIRED CONSTRUCTION INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
15.	CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY PHASE OF THE INSTALLATION WHICH MAY BE DAMAGED.
16.	THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND CURRENT BEFORE CONNECTION TO CIRCUITS.
17.	ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY EQUIPMENT FURNISHED AGAINST THOSE SPECIFIED OR INTENDED AND REVISE BRANCH CIRCUITS AS MAY BE REQUIRED WITH PRIOR APPROVAL OF ENGINEER/ARCHITECT.
18.	ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE.
19.	EQUIPMENT SHALL BE U.L. APPROVED.
20.	OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
21.	DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK, WITH ENCLOSURES AS REQUIRED BY EXPOSURE.
22.	CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS TO SUIT JOB CONDITIONS.
23.	FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON PLANS, OR AS SELECTED BY OWNER.
24.	SERVICE ENTRANCE EQUIPMENT FOR ALL ELECTRICAL ELEMENTS TO HAVE MIN. A.I.C. RATING OF 42,000 AMPS AND BE NEMA-3R RATED.
25.	ALL ELECTRICAL EQUIPMENT AND CABLING RATED @ 75°C CONTINUOUS DUTY.

CONDUCTORS

1. ALL WIRING SHALL BE COPPER.
2. CONDUCTORS SHALL BE RATED 600V. WITH TYPE THHN/THWN INSULATION.
3. WIRES SIZE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR.
4. WIRES SIZE #8 AND LARGER SHALL BE STRANDED CONDUCTOR.
5. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. CONTROL WIRING MAY BE #14 AWG.
6. THE USE OF MC CABLE OR ARMOR CABLE FOR RECEPTACLE AND LIGHTING BRANCH CIRCUITS (20 AMPERE OR LESS) IS ACCEPTABLE FOR THE USE WITH THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.

DEVICES

1. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.
2. ALL LIGHT SWITCHES SHALL BE 48" AFF.

FIRE ALARM

1. ALL EQUIPMENT SHALL BE UL LISTED FOR THE FIRE SERVICE AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
2. ALL WIRING SHALL CONFORM TO NFPA 70, 72, & 72-760. WIRE SHALL BE MIN #18 GA.
3. UNLESS OTHERWISE INDICATED, A GENERAL ALARM SHALL SOUND UPON ACTIVATION OF ANY PULL STATION OR INITIATING DEVICE. ALL STROBES AND HORNS SHALL SOUND UPON A GENERAL ALARM.
4. MANUAL PULL STATIONS SHALL BE INSTALLED @42" AFF.
5. SMOKE DETECTORS SHALL BE INSTALLED PER NFPA 72.
6. THE FIRE ALARM PANEL SHALL BE LISTED FOR CENTRAL STATION SERVICE PER NFPA 72.
7. TWO TELEPHONE LINES SHALL BE PROVIDED TO THE FIRE CONTROL COMMUNICATOR, ONE SHALL BE DEDICATED.
8. FIRE ALARM CIRCUITS SHALL BE CLASS 'B'
9. SECURITY LOCK SYSTEM AND DEVICES (BY OTHERS) SHALL BE TIED INTO THE FIRE ALARM SYSTEM. ALL EXITS CONTROLLED BY THE SECURITY SYSTEM SHALL UNLOCK UPON ACTIVATION OF ANY FIRE ALARM SIGNAL OR GENERAL ALARM.
10. HORN/STROBES SHALL BE MOUNTED @ 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER.
11. HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM PANEL. THE DETECTORS SHALL ANNUNCIATE IN A SUPERVISORY SIGNAL ONLY.
12. EXACT LOCATIONS OF THE DEVICES SHALL BE VERIFIED PRIOR TO INSTALLATION AND SHALL TIE INTO THE EXISTING SYSTEM SERVICING THE AREA.
13. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
14. DURING AN ALARM, ALL STROBES SHALL ANNUNCIATE AND SHALL REMAIN ON UNTIL THE SYSTEM IS RESET. A SILENCE SHALL NOT TURN OFF THE STROBES.

PANEL BOARDS

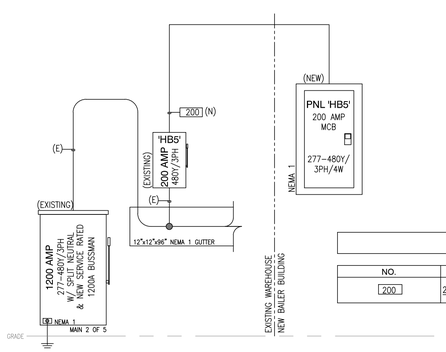
1. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BARE THE UL LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIRMENTS.
2. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
3. ALL PANELS SHALL HAVE TYPE WRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
4. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON PANEL SCHEDULES.
5. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED.
6. A SEPARATE AND DEDICATED SUBPANEL MUST BE PROVIDED AND DIRECTLY WIRED TO MAIN SERVICE, HEREBY CALLED THE 'ELECTRONICS SUBPANEL.?IF A TRANSFORMER IS INSTALLED, THE PRIMARY OF THE TRANSFORMER TO MAIN SERVICE MUST HAVE A SEPARATE GROUND WIRE.

FUSES

1. ALL FUSES SHALL HAVE A MIN 200,000 AMP RMS SYMMETRICAL INTERRUPTING RATING UNLESS OTHERWISE NOTED.
2. FUSES RATED 0 TO 600 AMPS SHALL BE AS FOLLOWS:
   A) CIRCUIT PANEL PROTECTION - UL CLASS RK-1 DUAL ELEMENT (BUSMAN "LOW-PEAK" OR EQUAL).
   B) MOTOR CIRCUIT PROTECTION - UL CLASS RK-5, DUAL ELEMENT (BUSMAN "FUSETRON" OR EQUAL).
3. FUSES RATED 601 SMPS AND LARGER SHALL BE UL CLASS L TIME DELAY (BUSMAN "HI-CAP" OR EQUAL)

SAFETY SWITCHES

1. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON PLANS. LUGS SHALL BE UL LISTED FOR CU-AL.
2. ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 3R.



BAILER SERVICE FEEDER SCHEDULE

NO.	DESCRIPTION
200	200 AMP OFE FEEDER - (1) RUN OF 2" CONDUIT WITH (4) #3/0 KMIL, (1) #4 GRND CU THWN

EAST POWER RISER MODIFICATIONS

SCALE: N.T.S.

D3

ELECTRICAL PANEL SCHEDULE

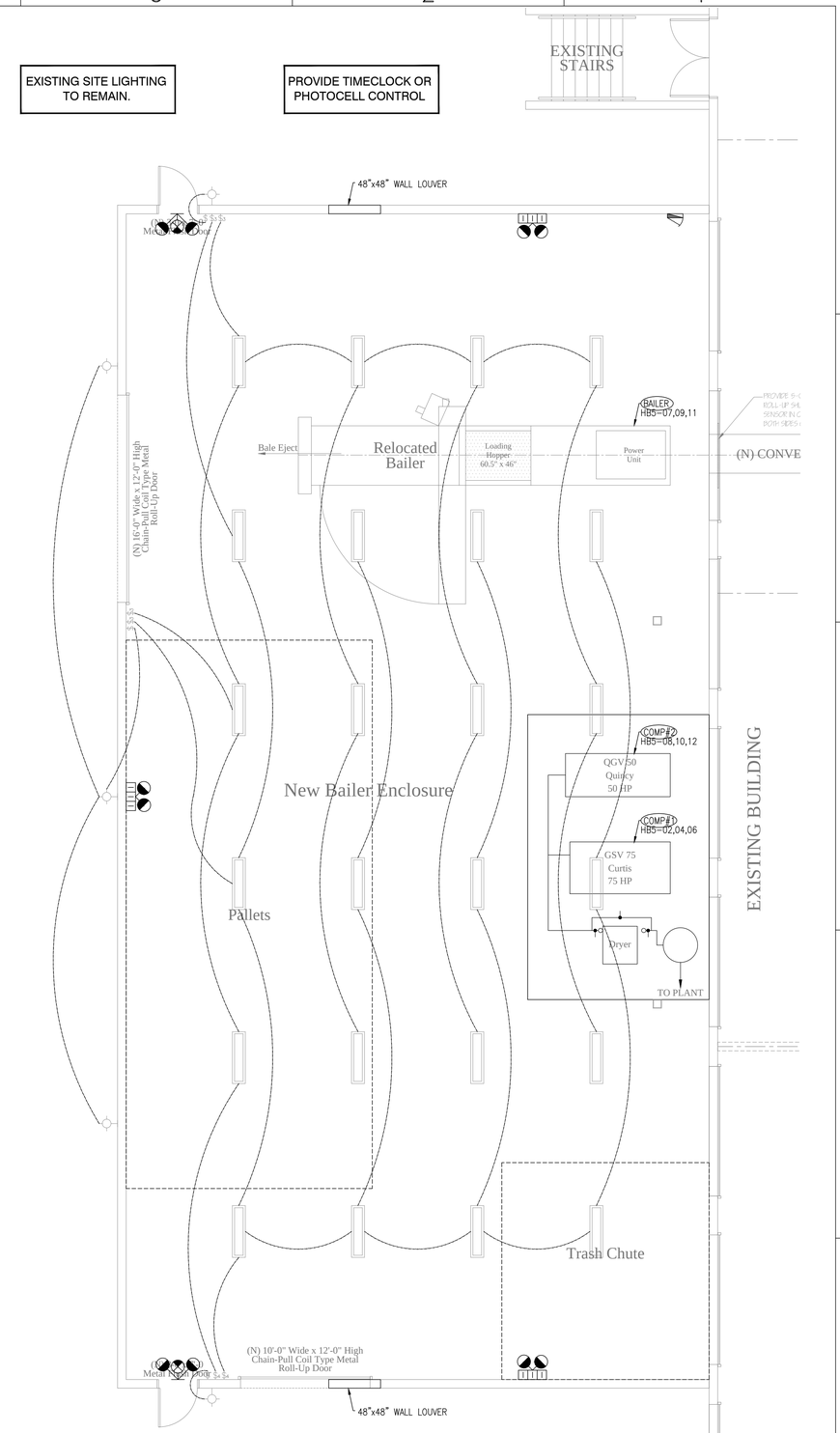
PNL TAG	"HB5" 3 PHASE GENERAL PWR. (2)	PANEL TYPE:	LOAD CENTER (1) (5)	PANEL AMPS:	225
VOLTS:	277/480 3Ø-4W	MFG:	SIEMENS OR EQUAL	POSITIONS:	24
MOUNTING	SURFACE				
MIN. A.I.C	42,000 AMPS SERIES RATED				

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	COND.	WIRE SIZE	POLE	AMPS	CKT	BUS			CKT	AMPS	POLE	WIRE SIZE	COND.	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
4.0			LIGHTING	1/2"	12	1	20	1	x			2	90	3	3	1-1/4"	COMPRESSOR #1 - 75HP	18.6		
	4.0		LIGHTING	1/2"	12	1	20	3		x		4	–	–	–	–	"		18.6	
		4.0	LIGHTING	1/2"	12	1	20	5			x	6	–	–	–	–	"			18.6
11.0			BAILER EQUIPMENT	3/4"	8	3	50	7	x			8	60	3	6	1"	COMPRESSOR #2 - 50HP	12.4		
	11.0		"	"	"	"	"	9		x		10	–	–	–	–	"		12.4	
		11.0	"	"	"	"	"	11			x	12	–	–	–	–	"			12.4
–	–	–	SPACE	–	–	–	–	13	x			14	–	–	–	–	SPACE	–	–	–
			"					15		x		16					"			
			"					17			x	18					"			
			"					19	x			20					"			
			"					21		x		22					"			
			"					23			x	24					"			

ØA	46.1 KVA
ØB	46.1 KVA
ØC	46.1 KVA
FEEDER QTY	1
FEEDER CU	4/0
GRND CU	4
COND.	2"

PANEL LOAD CALCULATIONS	
TOTAL CONNECTED KVA	138.2 KVA
LIGHTING @ 125%	15.0 KVA
REMAINING @ 100%	126.2 KVA
PANEL KVA	141.2 KVA
PANEL SERVICE AMPS	169.8

REMARKS:
(1) MAIN CIRCUIT BREAKER
(2) CONFIRM ELECTRICAL REQUIREMENTS.
(3) PROVIDE ARC-FAULT INTERRUPTING CIRCUIT BREAKER.
(4) NON-CONCURRENT LOADS. PROVIDE "HACR" RATED BREAKER.
(5) VERIFY LOCATION.
(6) POWER EVAPORATOR UNIT THROUGH CONDENSING UNIT. SEE MNF. INSTALL DIRECTION.
(7) EXISTING POWER CIRCUITS HAVE BEEN DERATED 20% FROM BREAKER SIZE.



BAILER BUILDING POWER AND VENTILATION PLAN

SCALE: 3/16" = 1'-0"

NO.	REVISION	BY/CK	DATE
00	INITIAL ISSUE	JL	06-15-16

PROJECT:
PETMEDS
BAILER BUILDING
420 SOUTH CONGRESS AVENUE
DELRAY BEACH, FL

ARCHITECT:
THE BENEDICT BULLOCK GROUP, PA
1525 NW 3RD STREET
SUITE #1
DEERFIELD BEACH, FL

GENERAL CONTRACTOR:
TBD

TO THE BEST OF THE ARCHITECTS KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE AND ALL APPLICABLE MUNICIPAL ORDINANCES. ALL DRAWINGS, SPECIFICATIONS OR WRITTEN MATERIALS APPEARING HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED TO OTHERS WITHOUT WRITTEN CONSENT OF THE LICENSED ENGINEER OF RECORD. COPYRIGHT ©2014 JWL ENGINEERING, LLC.

JWL ENGINEERING

JOHN W. LANGFORD ENGINEERING, LLC
238 DOVER STREET
BOCA RATON, FLORIDA 33487
Tel. (561) 237-5223
Fax. (561) 237-5680
www.JWLENGINEERING.com

ANY DESIGN CHANGES TO THE SYSTEM DESCRIBED IN THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD WILL VOID THESE PLANS. ALL EXPENSES INCURRED DUE TO THESE CHANGES WILL BE THE RESPONSIBILITY OF THE PARTY PERFORMING SUCH CHANGES.

I HEREBY CERTIFY THAT THESE PLANS WERE MADE UNDER MY RESPONSIBLE CHARGE. THIS DOCUMENT IS ELECTRONICALLY SIGNED AND SEALED PURSUANT TO SECTION 471.025 OF THE FLORIDA STATUTES AND 61G15 OF THE FLORIDA ADMINISTRATIVE CODE.

JOHN LANGFORD, FL#69962

JOHN WILLIAM LANGFORD LICENSE No. 69962 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 15, 2016

POWER & HVAC PLAN NOTES, EQUIPMENT & DETAILS

ME401

FILE NAME: C:\EGNYTE\SHARED\DOCUMENTS\PROJECTS\2016\16019_PETMEDS WAREHOUSE\DEL\DRW\DRW-500-200_BAILER HVAC-PWR\R00 - OPEN\16019-DRW-500-200-00_00.DWG
PLOT DATE: 6/15/2016 11:54 AM; SHT SIZE: ARCH D; PLOT SCALE: 1:1;

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL UNDERGROUND UTILITIES.

2. REGULATIONS - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS & SPECIFICATIONS (LATEST EDITION) AND ALL APPLICABLE LOCAL REGULATIONS.

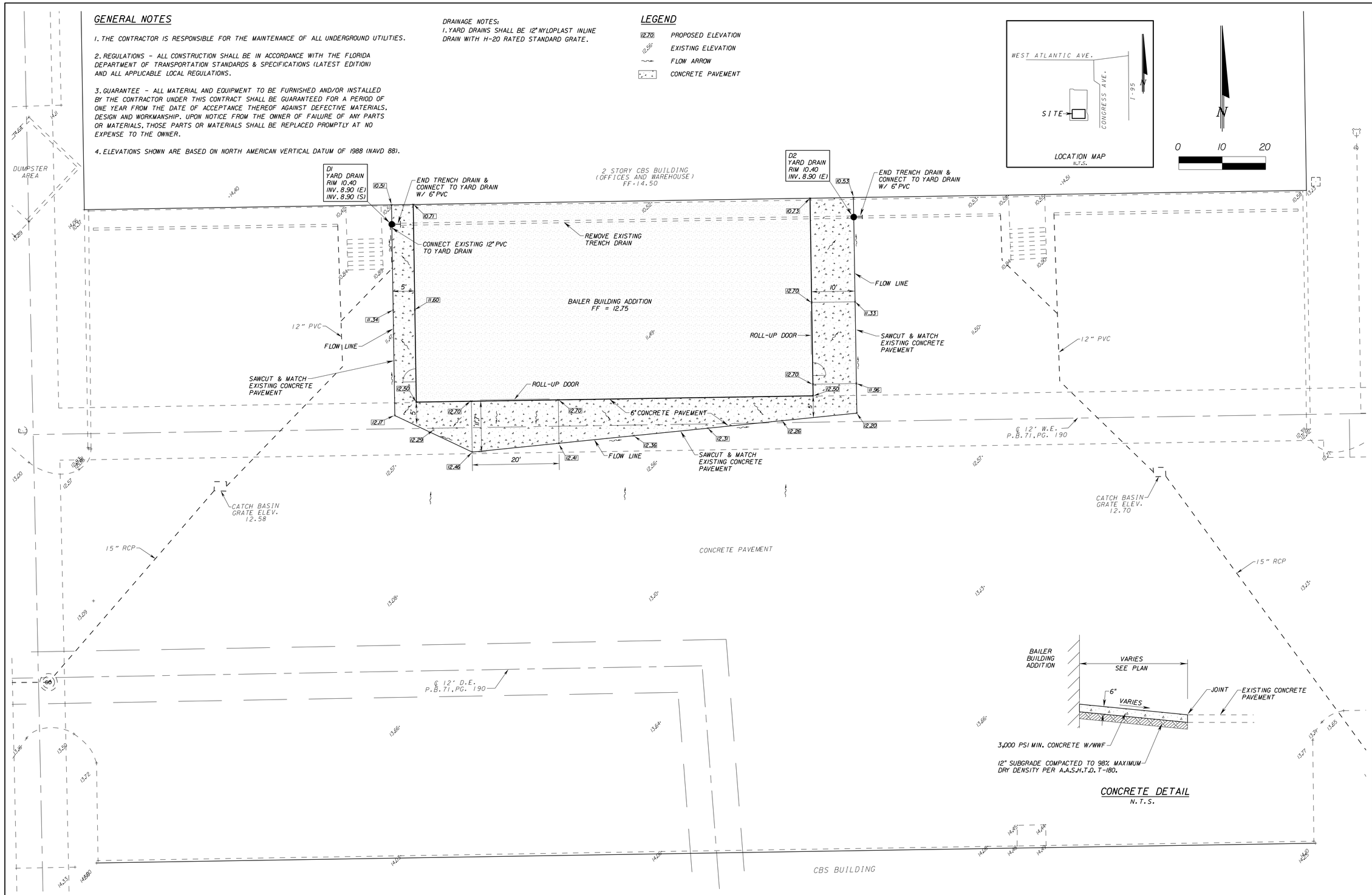
3. GUARANTEE - ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON NOTICE FROM THE OWNER OF FAILURE OF ANY PARTS OR MATERIALS, THOSE PARTS OR MATERIALS SHALL BE REPLACED PROMPTLY AT NO EXPENSE TO THE OWNER.

4. ELEVATIONS SHOWN ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

DRAINAGE NOTES:
1. YARD DRAINS SHALL BE 12" NYLOPLAST INLINE DRAIN WITH H-20 RATED STANDARD GRATE.

LEGEND

- 12.70 PROPOSED ELEVATION
- 12.56 EXISTING ELEVATION
- FLOW ARROW
- CONCRETE PAVEMENT



REVISIONS			
NO.	DATE	BY	DESCRIPTION

STEVEN M. PAWLYK, P.E.
FL. REG. NO. 61800

DATE _____

PAVING & DRAINAGE PLAN

PROJ. NO.	1765
DATE	06/17/2016
SCALE	1"=10'
SHEET	1 OF 1

SEXTON ENGINEERING ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
110 PONCE DE LEON STREET, SUITE 100
ROYAL PALM BEACH, FLORIDA 33411
PHONE 561-792-3122 FAX 561-792-3168
FL. REGISTRATIONS: LB0006837, EB 0007864

PETMEDS BAILER BUILDING
DELRAY BEACH, FLORIDA