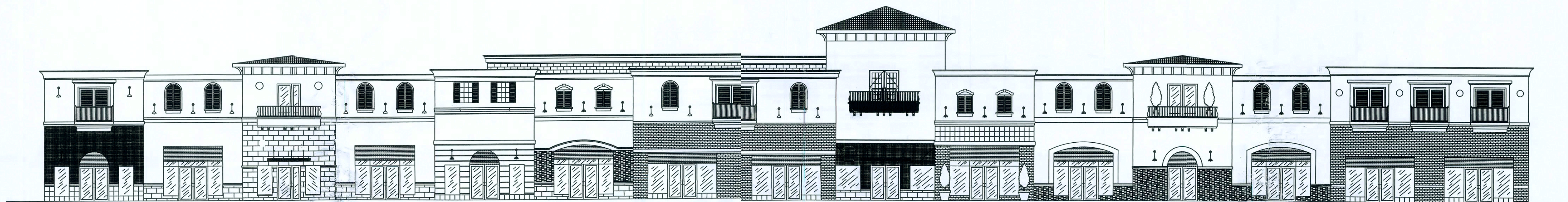


BLDG
#3

Revised
Mezzanine

SHOPS AT THE CROSSROADS



AREA INDEX:	
BLDG 1:	9,621 S.F.
BLDG 2:	7,175 S.F.
BLDG 3:	11,208 S.F.
(1ST FLR: 8,500 S.F. & LOFT: 2,708 S.F.)	
TOTAL (ALL BLDGS):	28,004 S.F.

APPLICABLE CODES
2004 FLORIDA BUILDING CODE (WITH 2006 AND 2007 REVISIONS)
2002 NATIONAL ELECTRIC CODE (NFPA 70)
2004 FLORIDA PLUMBING CODE
2004 FLORIDA MECHANICAL CODE
2004 FLORIDA FIRE PROTECTION CODE
(INCLUDES 2004 LIFE SAFETY CODE)

OCCUPANCY CLASS
MERCANTILE (GROUP M)

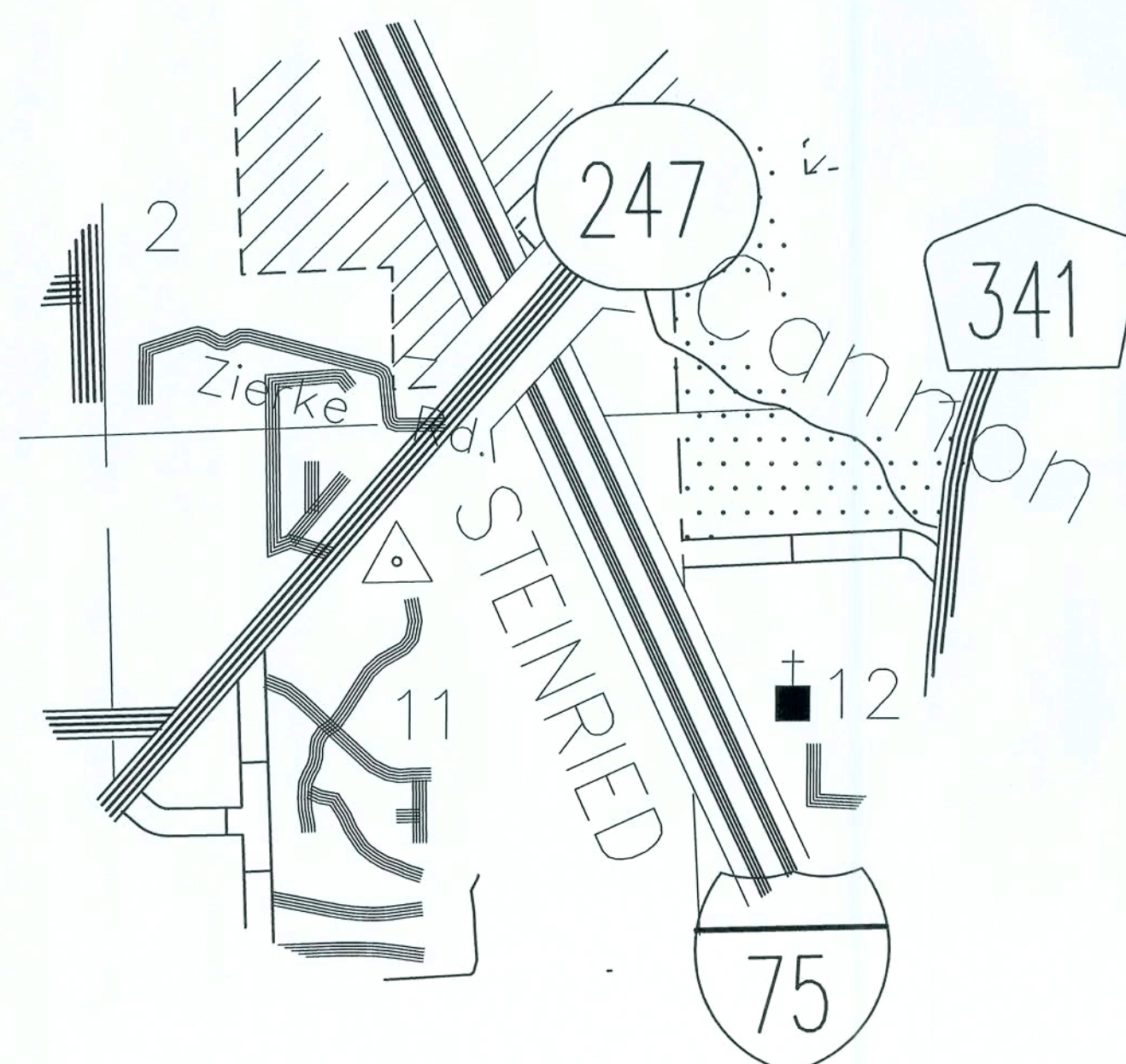
OCCUPANCY LOADING / EGRESS REQUIREMENTS
MERCANTILE BUILDING 1 - 9,621 / 60 S.F. PER OCCUPANT = 160
MERCANTILE BUILDING 2 - 7,175 / 60 S.F. PER OCCUPANT = 119
MERCANTILE BUILDING 3 - 1ST FLOOR 8,500 / 60 S.F. PER OCCUPANT = 142
STORAGE BUILDING 3 - LOFT / 2,708.18 / 300 S.F. PER OCCUPANT = 9

TYPE OF CONSTRUCTION
TYPE V-B

CONSTRUCTION DOCUMENTS
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY A. DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

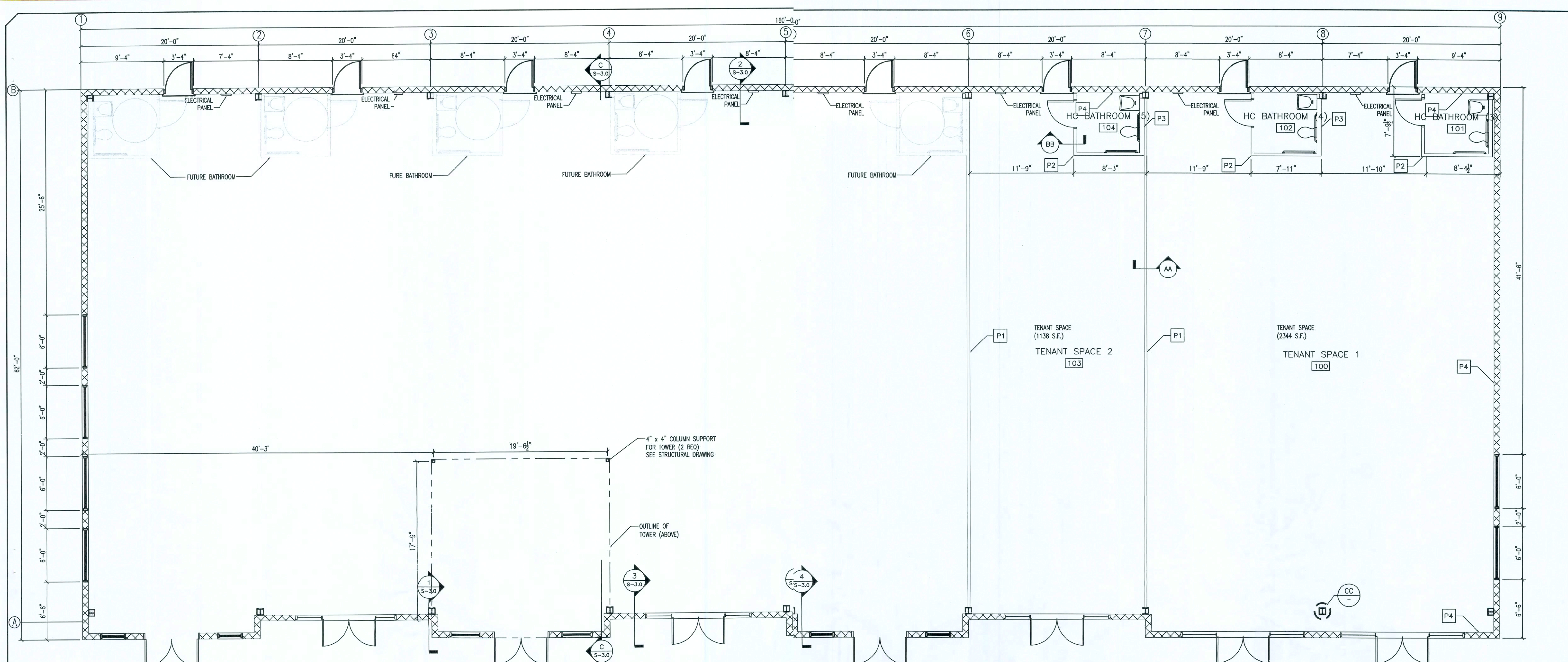


GTC DESIGN GROUP, LLC
STRUCTURAL/CIVIL ENGINEERS

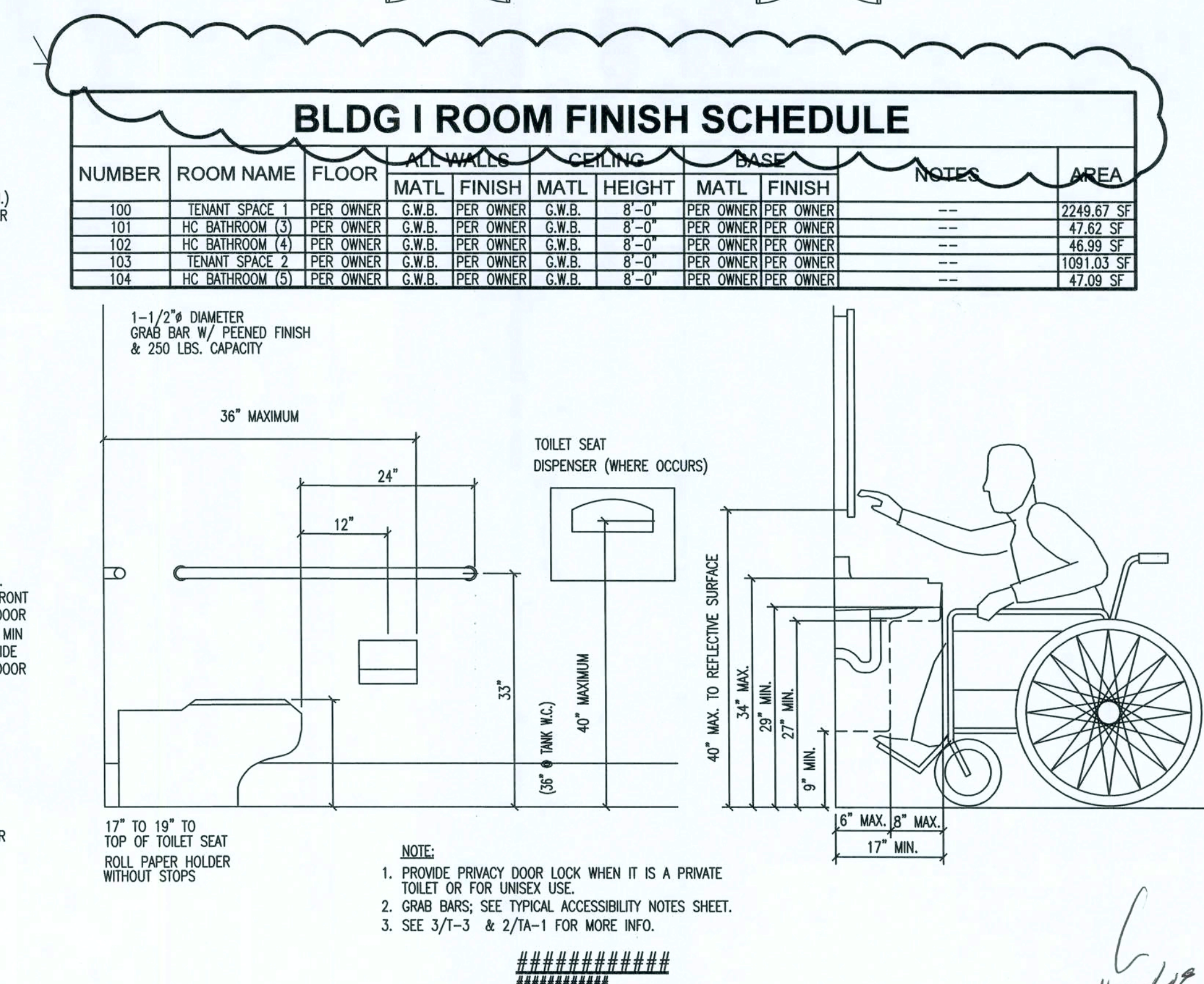
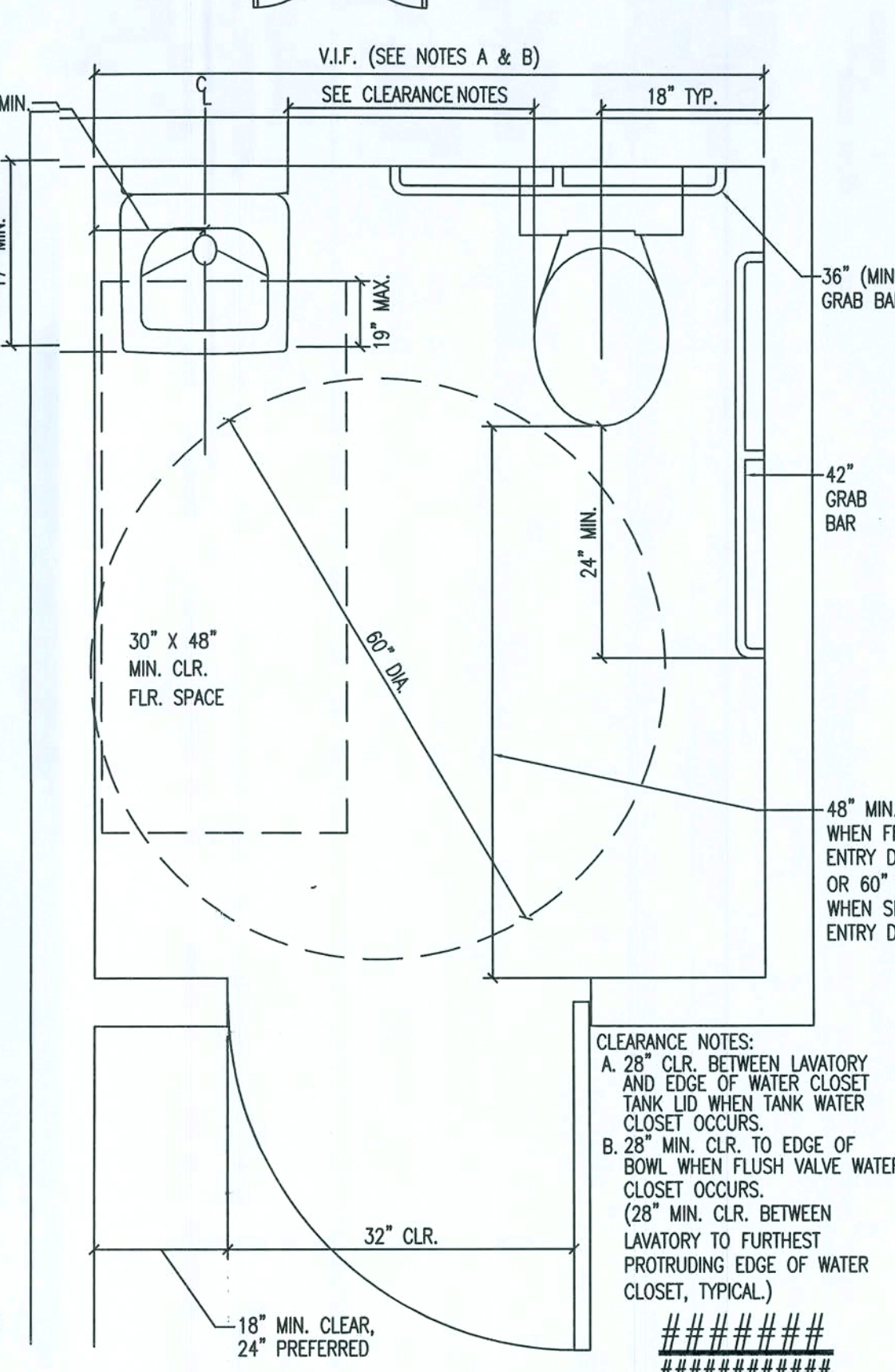
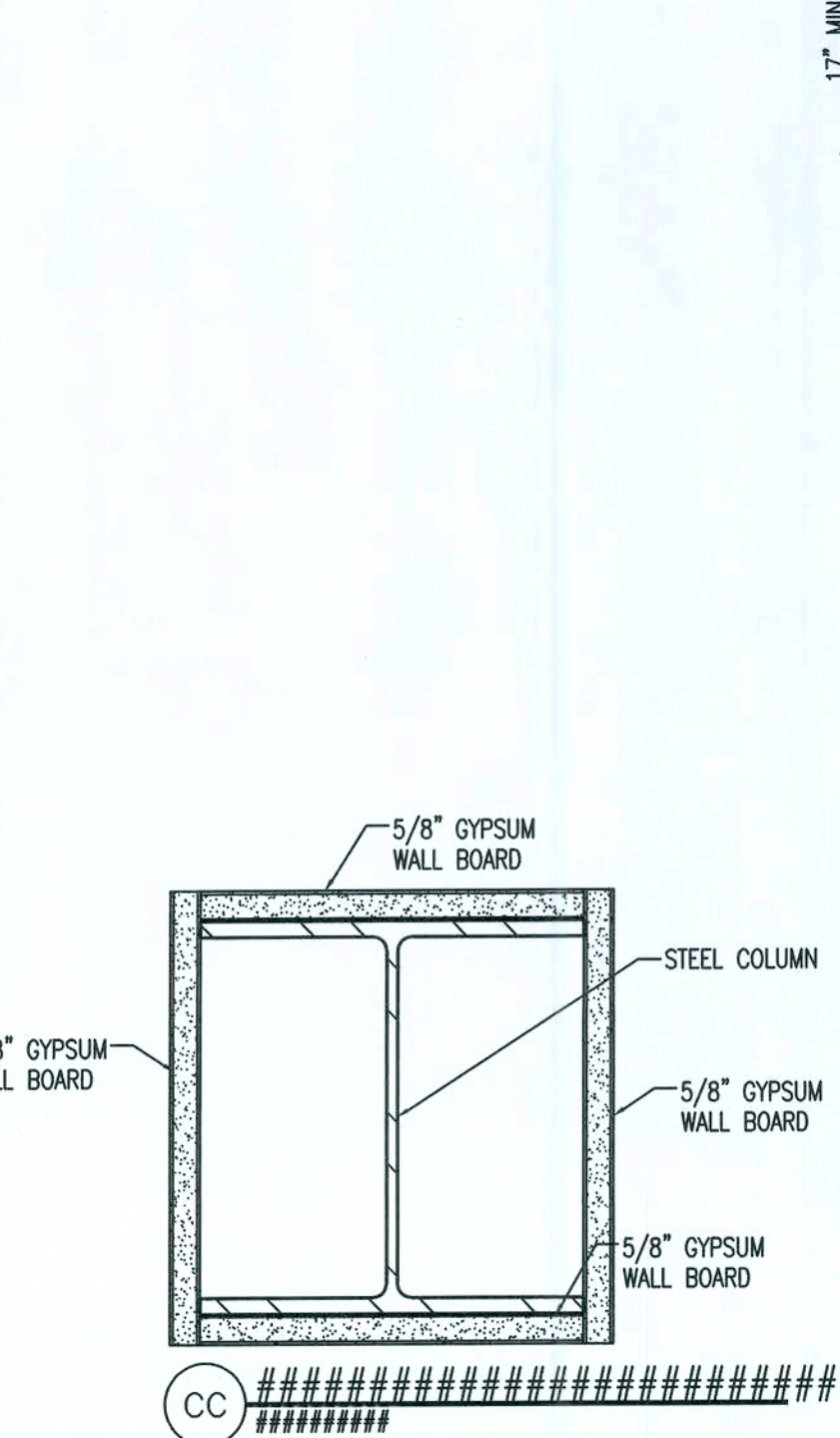
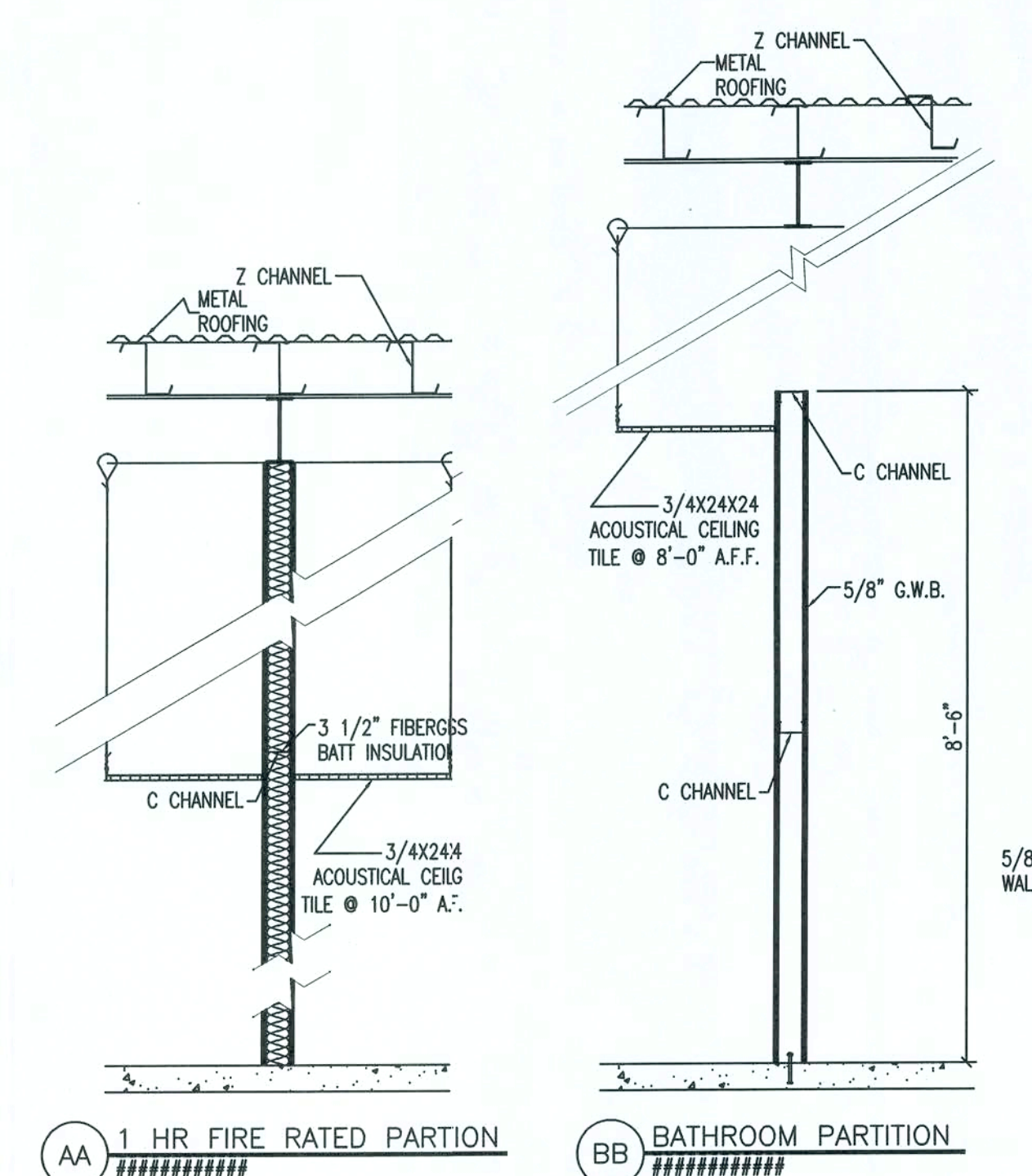
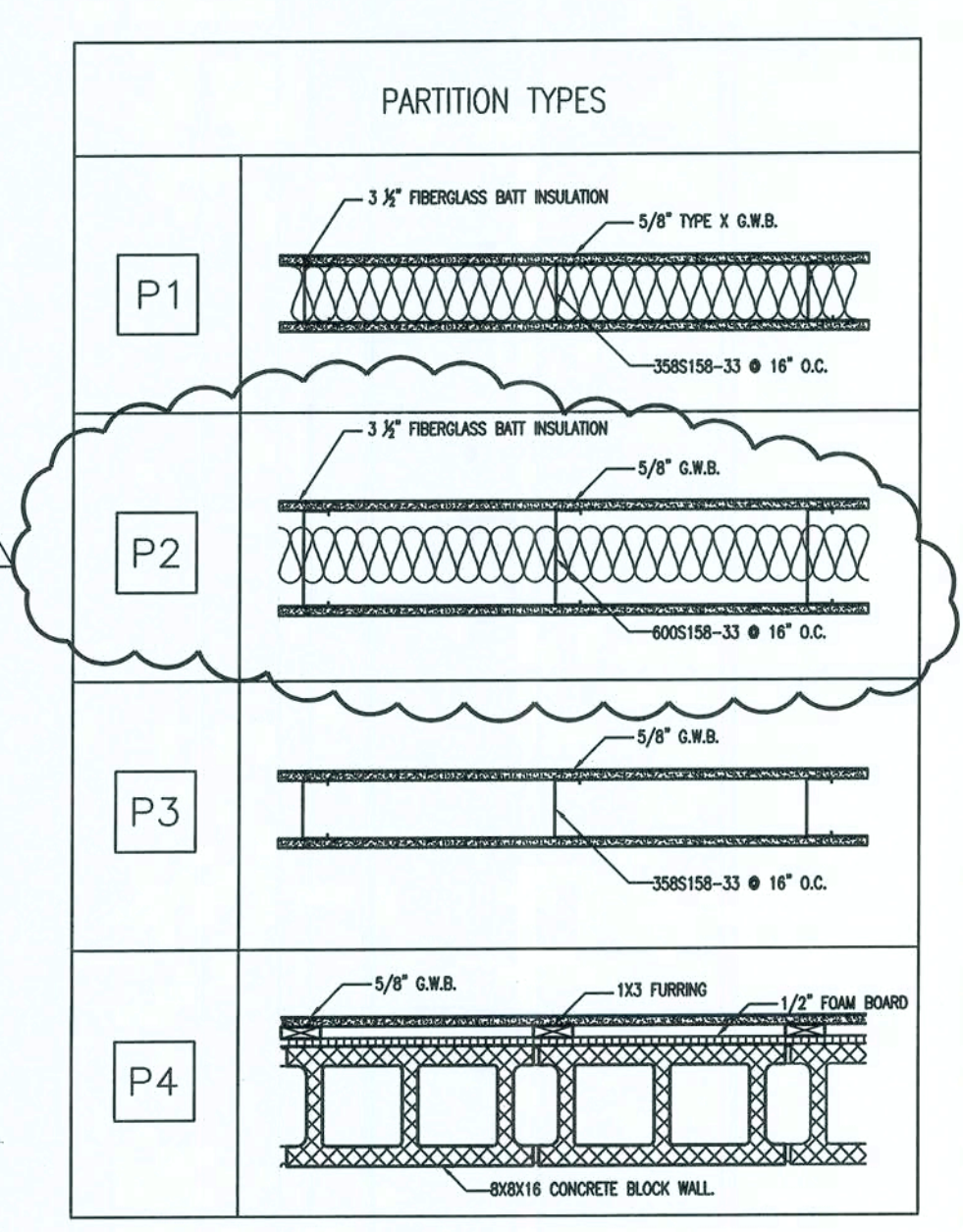
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gary Gill, PE 51942
Auth. # 9461

Sheet List Table

Sheet Number	Sheet Title
A-1.0	OVERALL PLAN
A-1.1	BUILDING I FLOOR PLAN
A-1.2	BUILDING II FLOOR PLAN
A-1.3	BUILDING III FLOOR PLAN
A-2.0	ELEVATIONS
A-3.0	REFLECTED CEILING PLAN
S-1.0	FOUNDATION PLAN - OVERALL
S-1.1	FOUNDATION PLAN - BUILDINGS 1 & 2
S-1.2	FOUNDATION PLAN - BUILDING 3
S-2.0	ROOF FRAMING PLAN
S-3.0	SECTIONS - BUILDING 1 & 2
S-3.1	SECTIONS - BUILDING 3
S-4.0	GENERAL NOTES
S-5.0	STRUCTURAL ELEVATIONS BLDG I & II
S-5.1	STRUCTURAL ELEVATION - BLDG III
M-1.0	MECHANICAL PLAN - BUILDING I & II
M-1.1	MECHANICAL PLAN - BUILDING III
E-1.0	ELECTRICAL RISER ELEV
E-2.0	ELECTRICAL
E-3.0	ELECTRICAL LIGHTING
P-1.0	SEWER PLAN - BLDG III
P-2.0	WATER PLAN - BLDG III
P-3.0	PLUMBING & WATER PLAN - BLDG I



FLOOR PLAN BUILDING I



REVISION NOTES

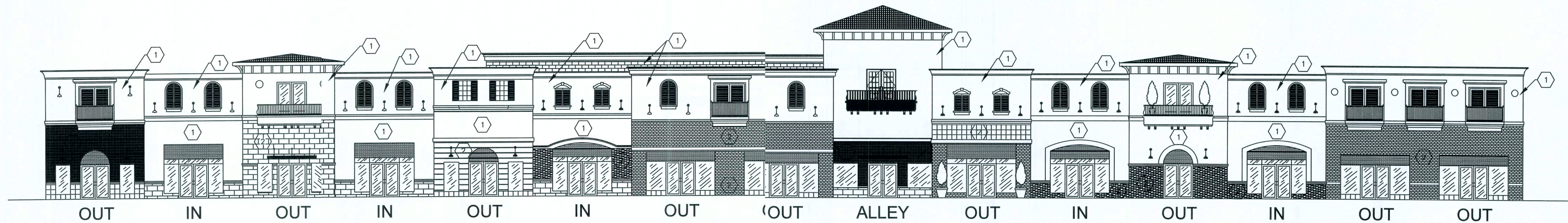
REV #	DATE	###	REVISION
1	01-23-08	GEN.	REV. PER CONTRACTOR

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Live Oak FL 32064
Phone: (386) 362-3678
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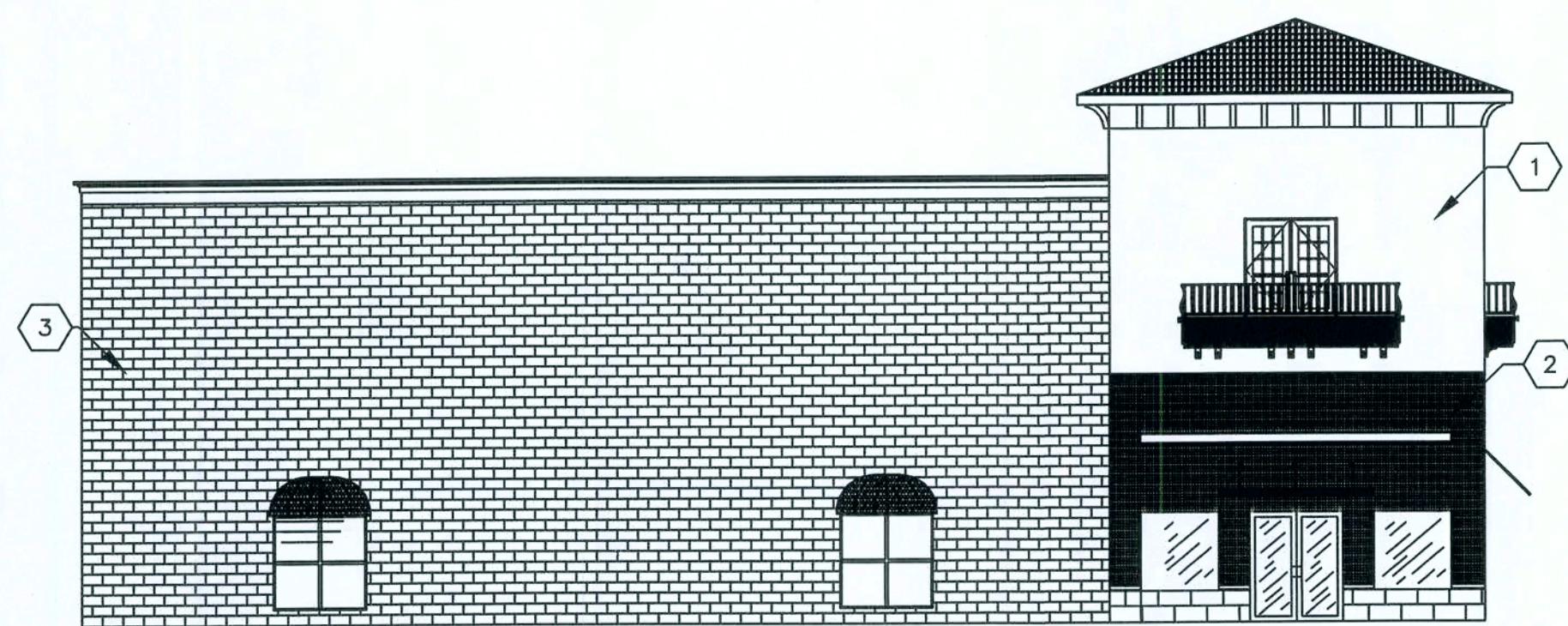
SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

FLOOR PLAN - BLDG I

A-1.1



FRONT ELEVATIONS
3/32" = 1"

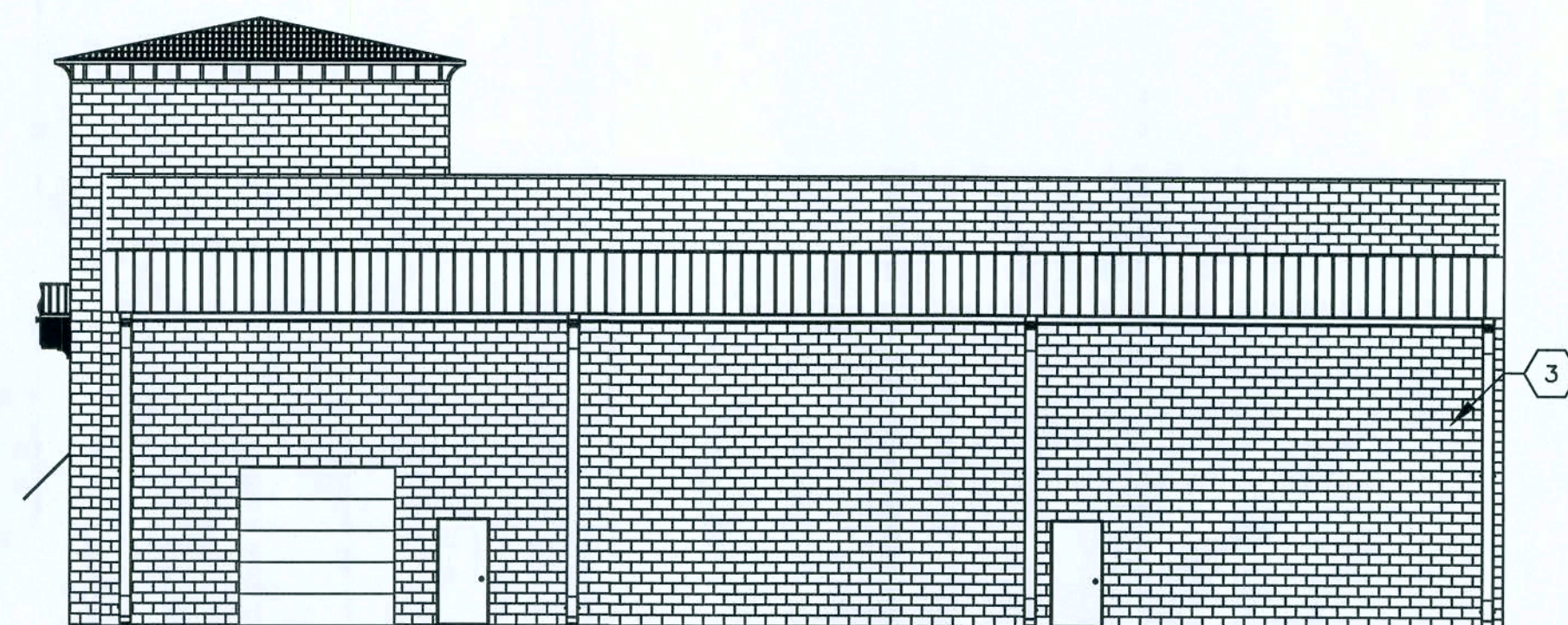


FRONT ELEVATION — BUILDING 3
3/32" = 1"

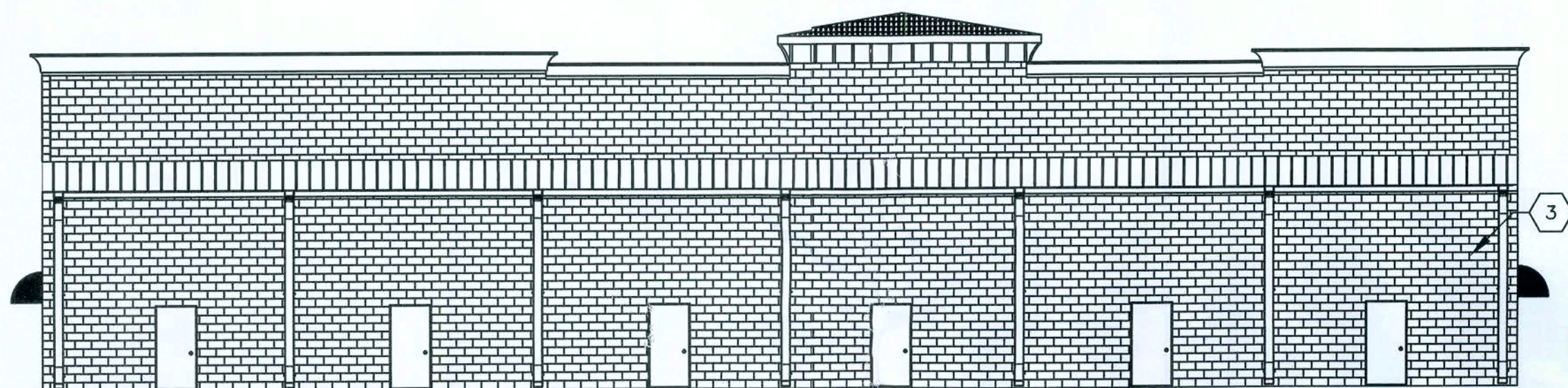
SHEET KEYNOTES:

- 1 SMOOTH STUCCO
- 2 STONE AND/ OR TILE (PER OWNER)
- 3 PAINTED CMU (COLORS TO BE DETERMINED)
- 4 METAL BARREL TILE

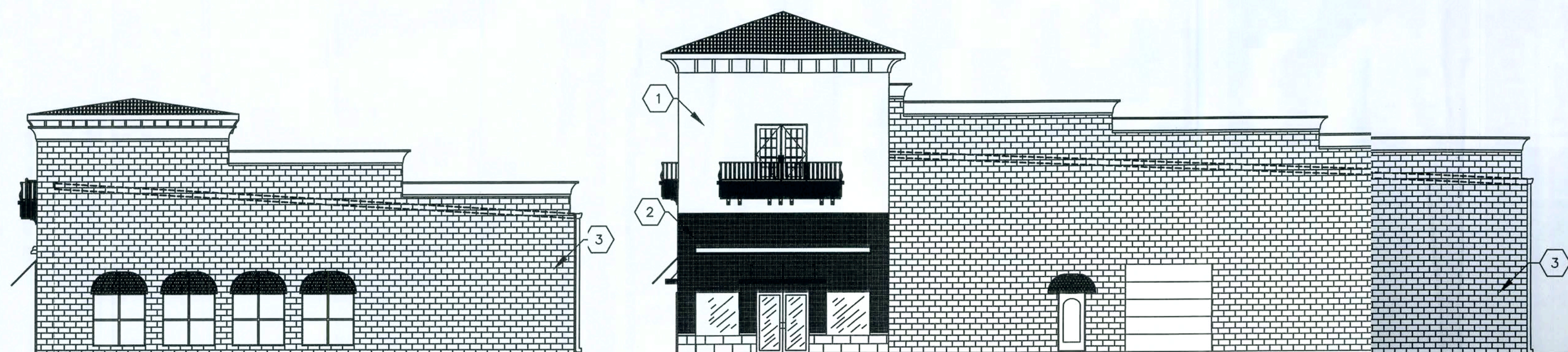
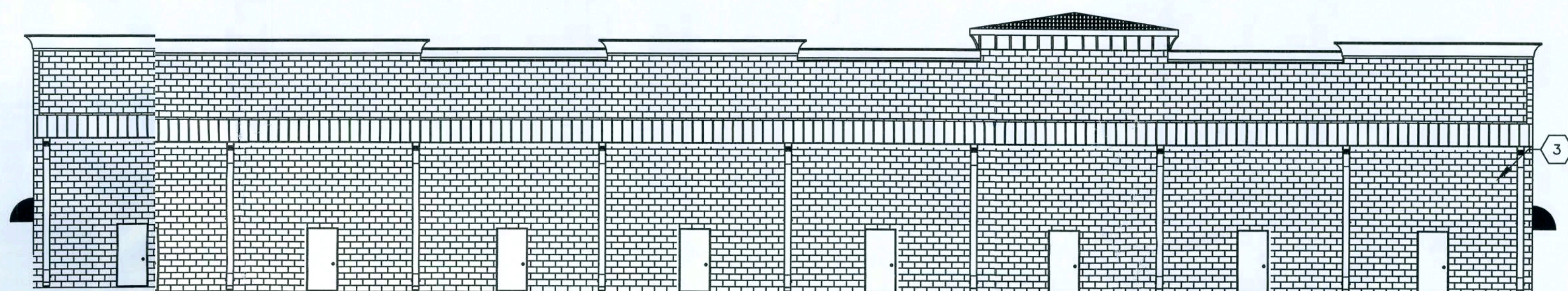
NOTE:
SEE MANUFACTURER SPECIFICATIONS
TO ENSURE PROPER LOCATION
AND SIZE OF GUTTER AND DOWNSPOUTS.



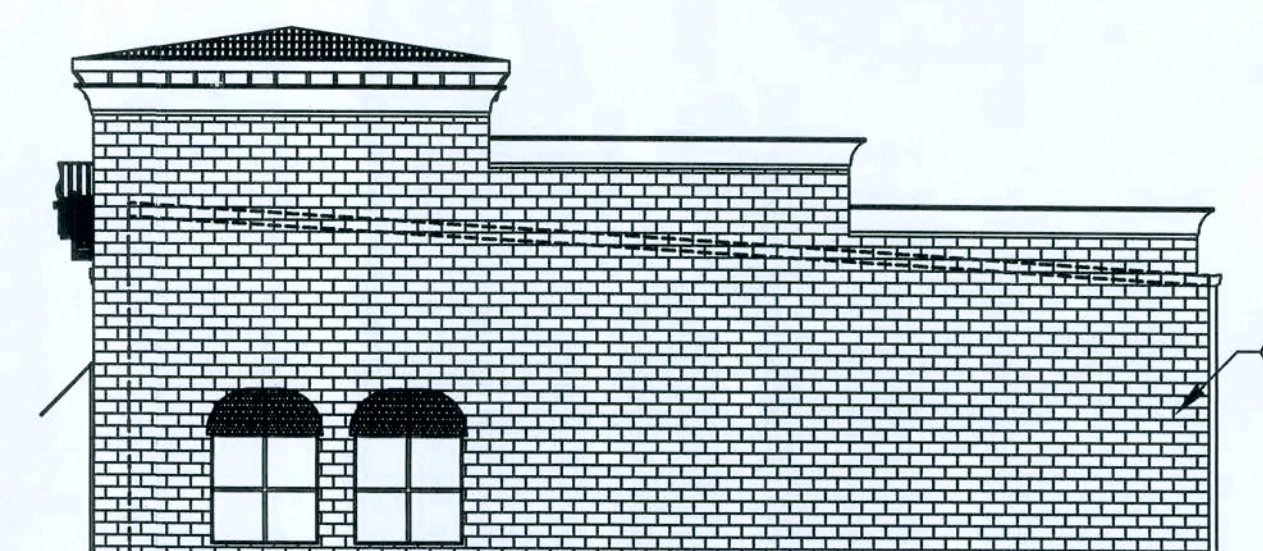
REAR ELEVATION — BUILDING III
3/32" = 1"



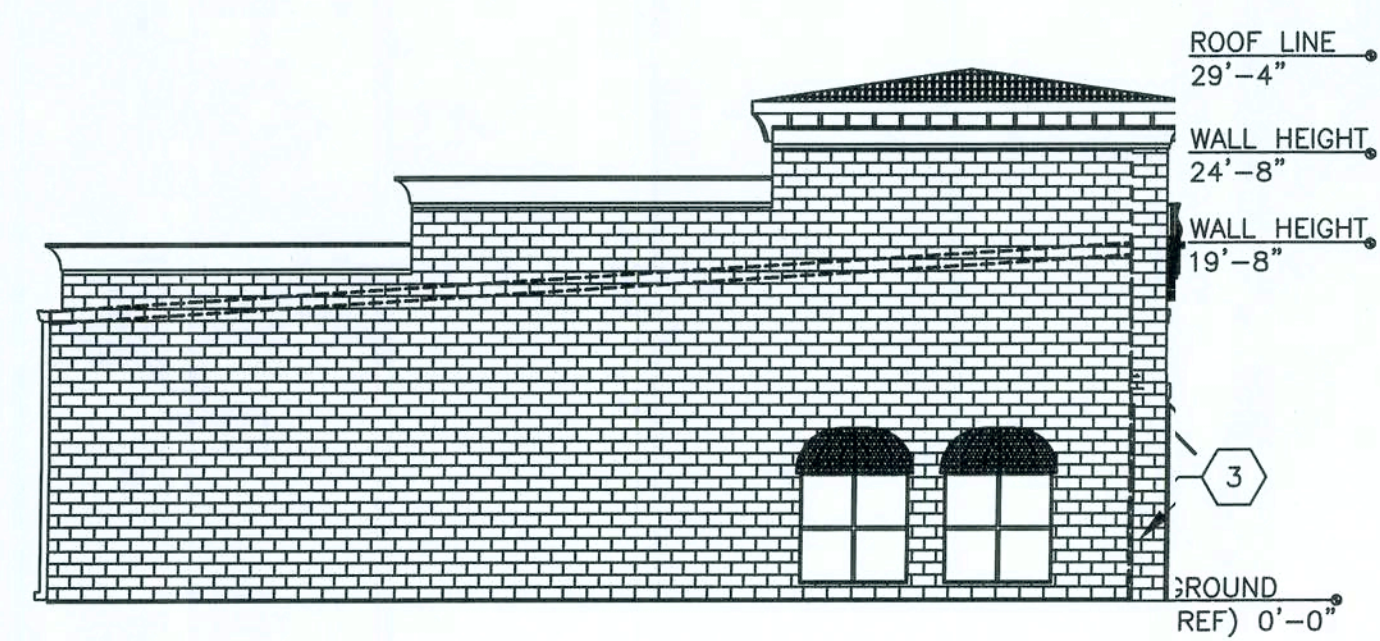
REAR ELEVATIONS — BUILDINGS I AND II
3/32" = 1"



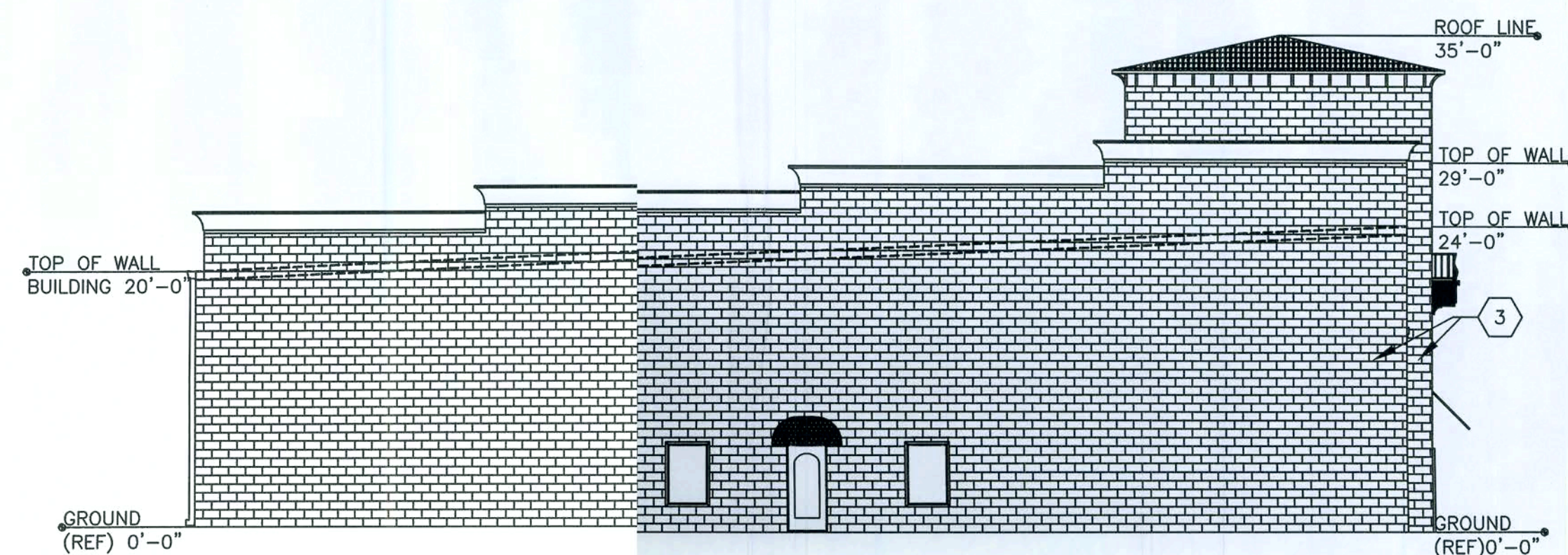
RIGHT ELEVATION — BUILDINGS II AND III
3/32" = 1'-0"



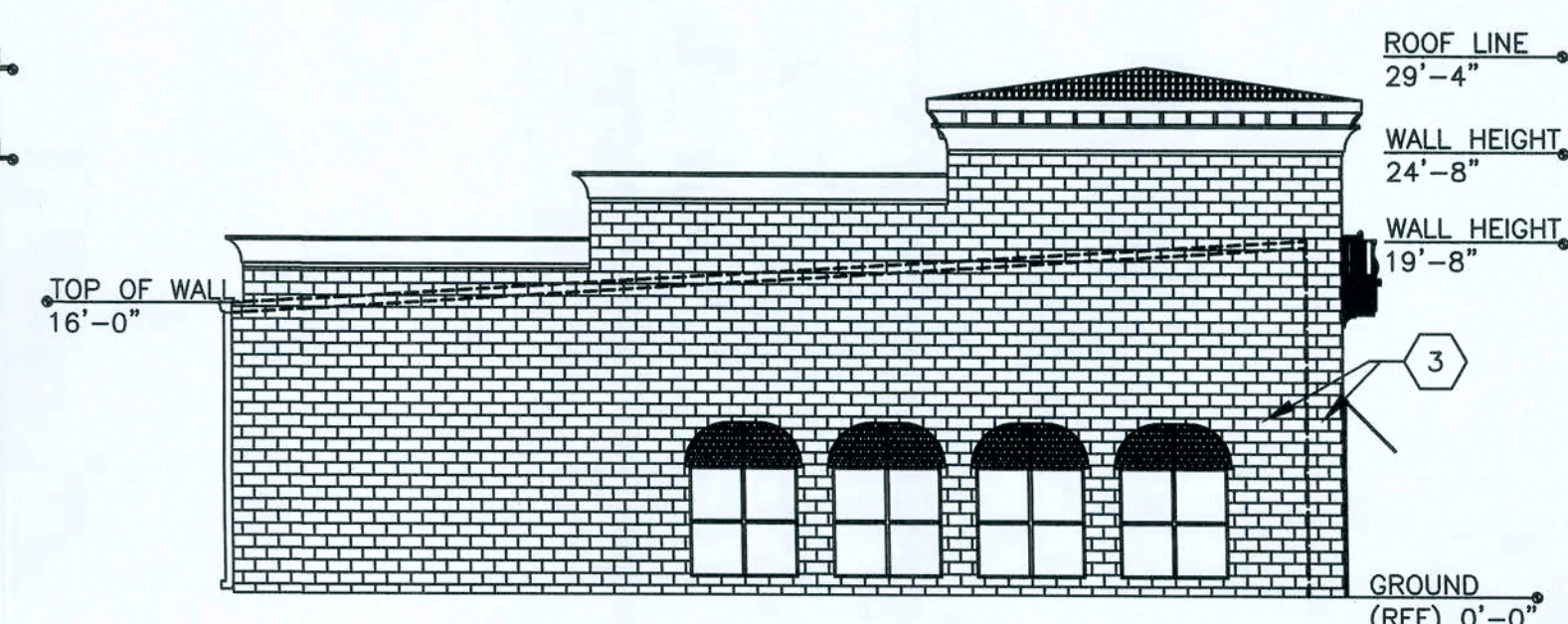
RIGHT ELEVATION — BUILDING I
3/32" = 1'-0"



LEFT ELEVATION — BUILDING II
3/32" = 1'-0"



LEFT ELEVATION — BUILDINGS I AND III
3/32" = 1'-0"



1/30/09

ISSUED FOR CONSTRUCTION

REV #	DATE	REVISION NOTES
A	09-11-07	ISSUED FOR REVIEW
B	11-28-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR

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Auth. # 9461



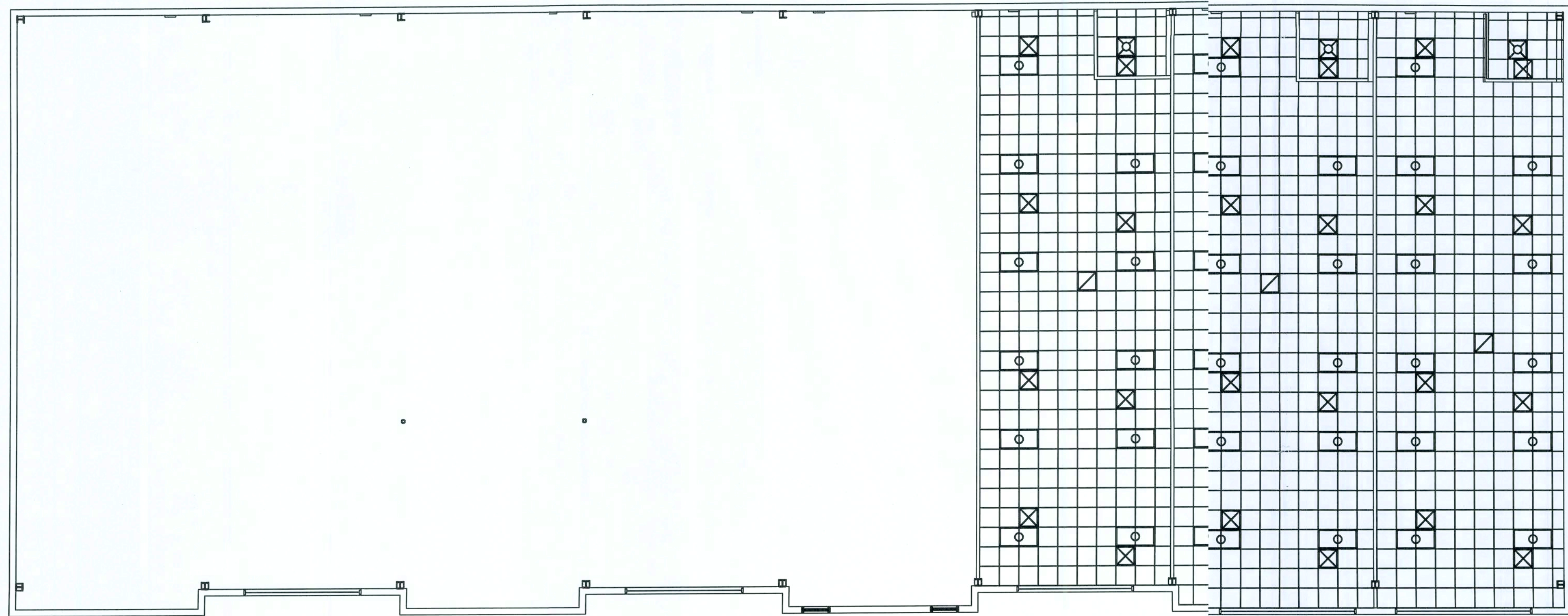
SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

ELEVATIONS

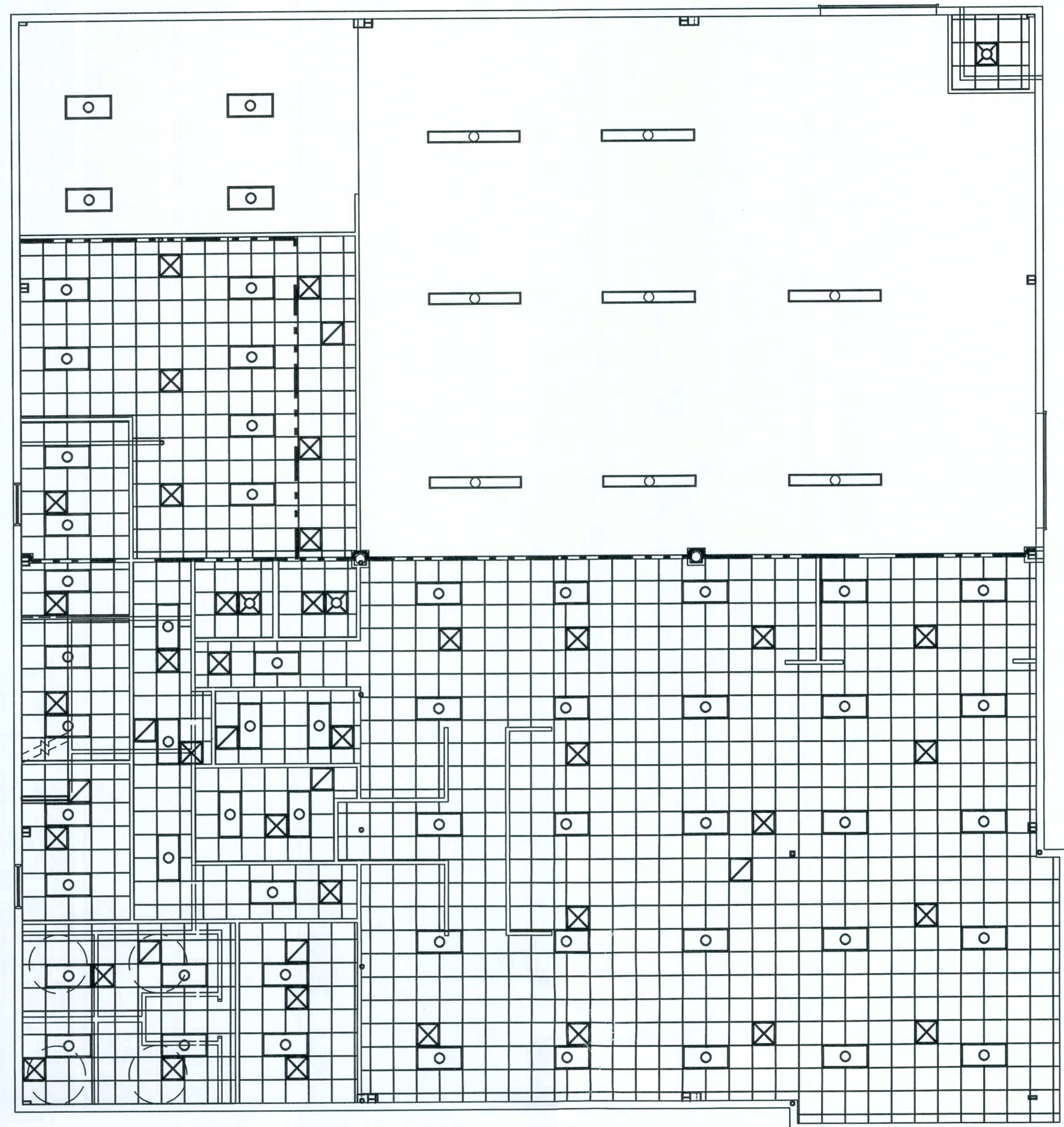
PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

A-2.0

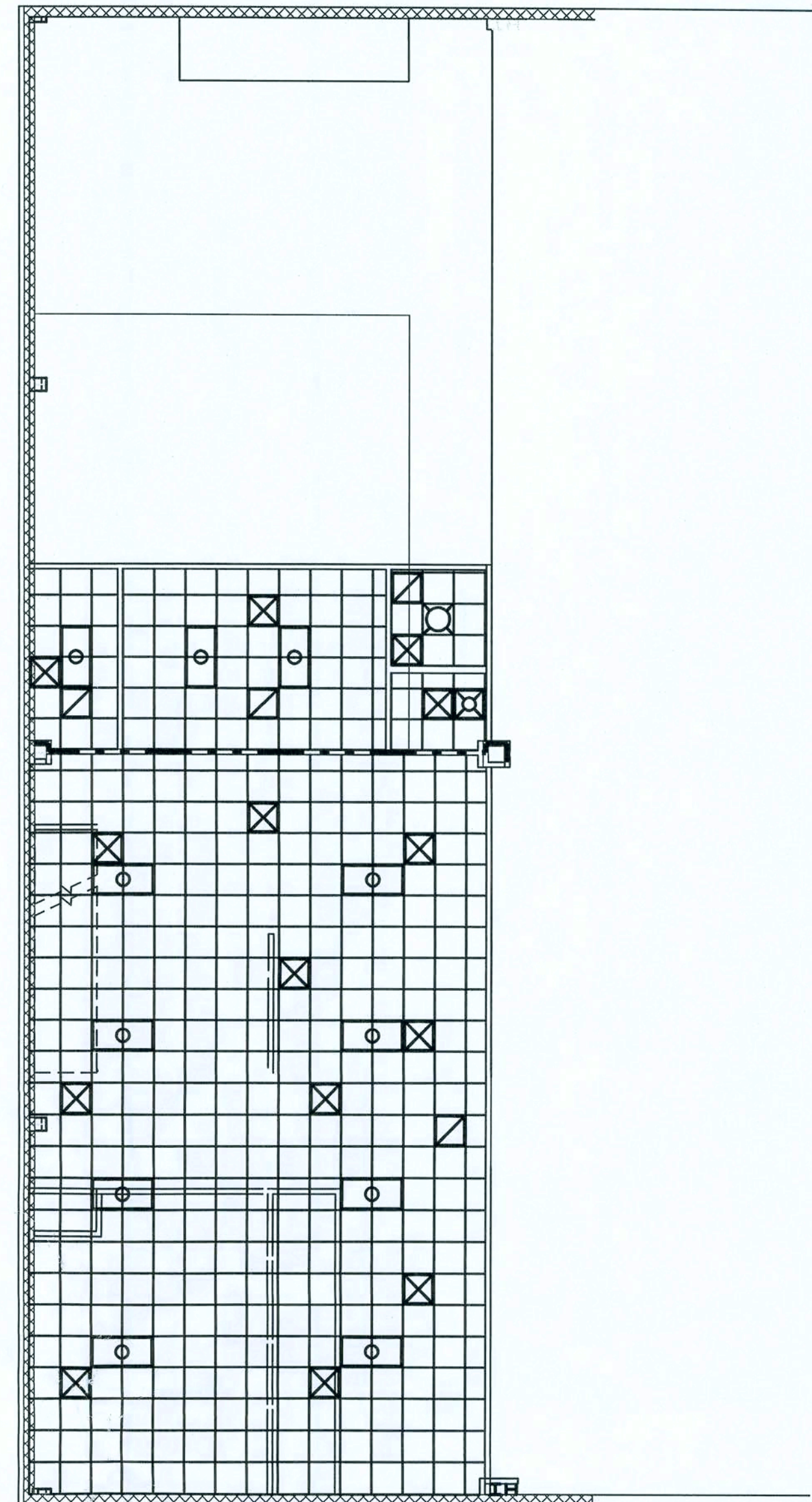
SHEET 5 OF 23



REFLECTED CEILING PLAN BLDG I
1/8" = 1'-0"



REFLECTED CEILING PLAN BLDG III
1/8" = 1'-0"



REFLECTED CEILING PLAN - LOFT
1/8" = 1'-0"

LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
	16	DIFFUSER (RETURN)
	75	DIFFUSER (SUPPLY)
	101	48\"/>
	8	8\"/>
	7	FAN-LIGHT BATH
	1	INCANDESCENT FIXTURE

ISSUED FOR CONSTRUCTION

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

REFLECTED CEILING PLAN

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

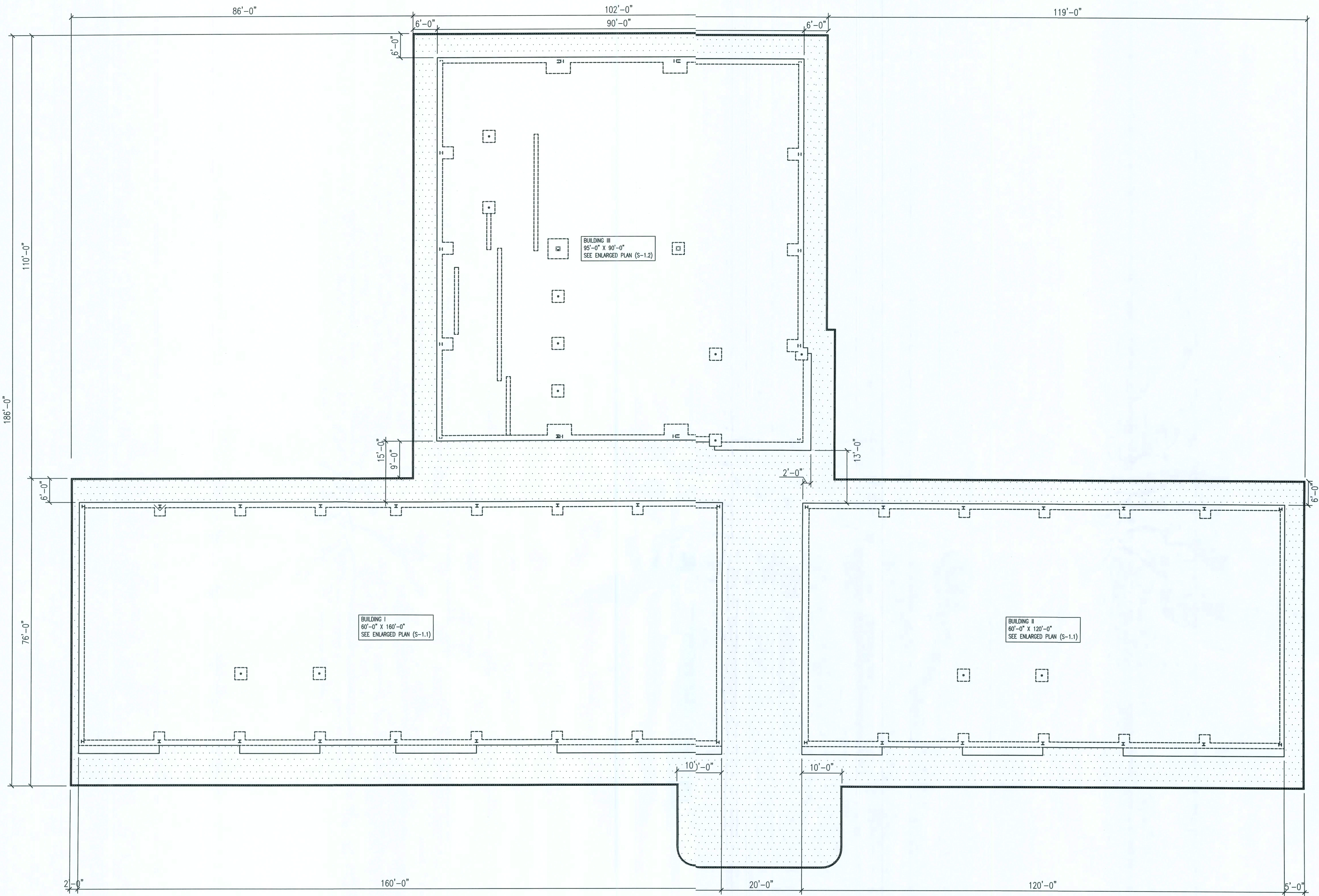
A-3.0

SHEET 6 OF 23

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130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gary J. Gill, PE 51942
Auth. # 9461
STRUCTURAL/CIVIL ENGINEERS



REV #	DATE	###	REVISION NOTES
—	—	—	—
B	11-26-07	0	ISSUED FOR REVIEW
0	12-03-07	1	ISSUED FOR CONSTRUCTION
1	01-10-08	1	GEN. REV. PER CONTRACTOR



LEGEND	
SYMBOL	DESCRIPTION
[Pattern]	POURED CONCRETE
[Pattern]	THICK SET PAVERS
[Pattern]	CONCRETE CURB BORDER

ISSUED FOR CONSTRUCTION



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Fax: (386) 362-6133
Auth. # 51942

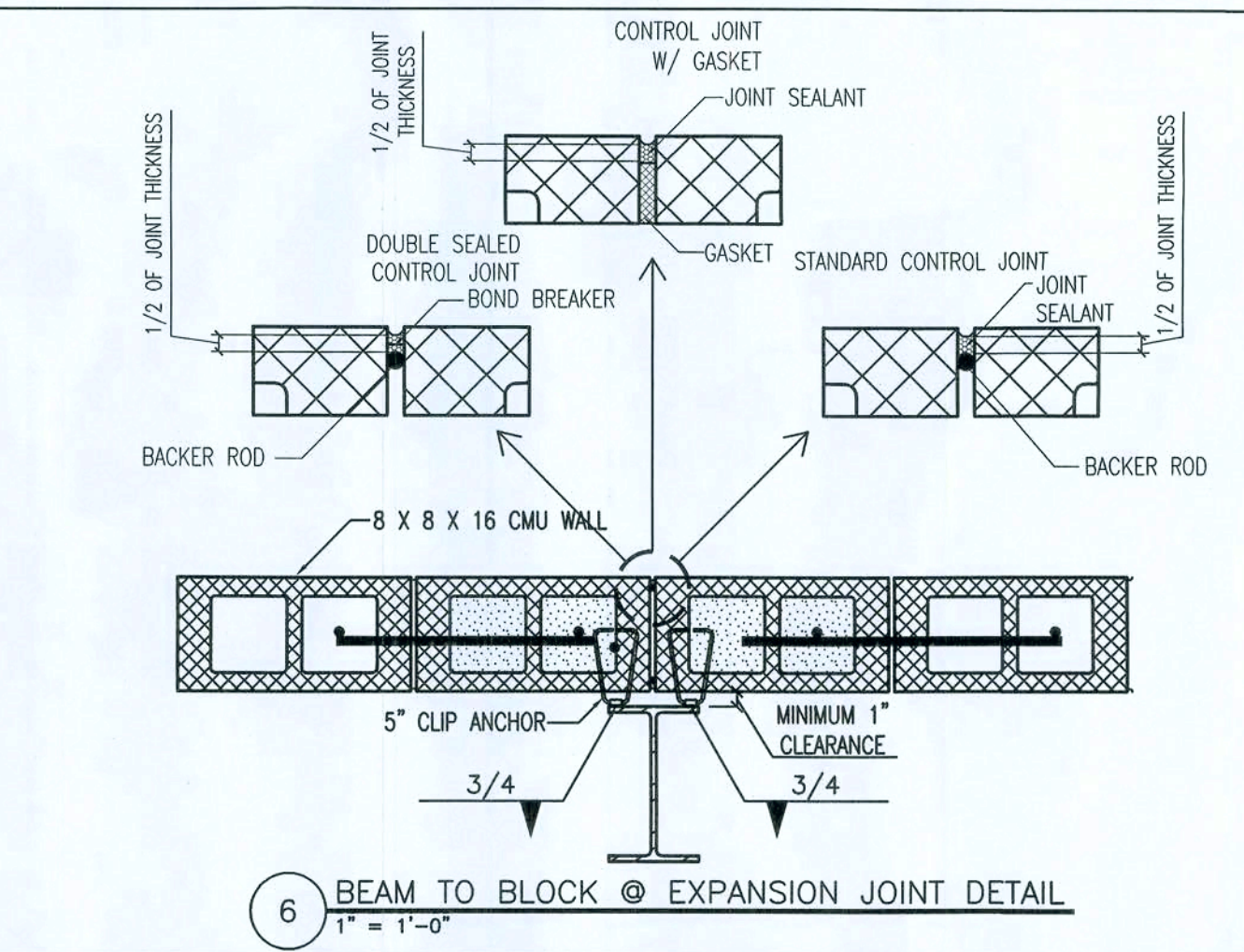
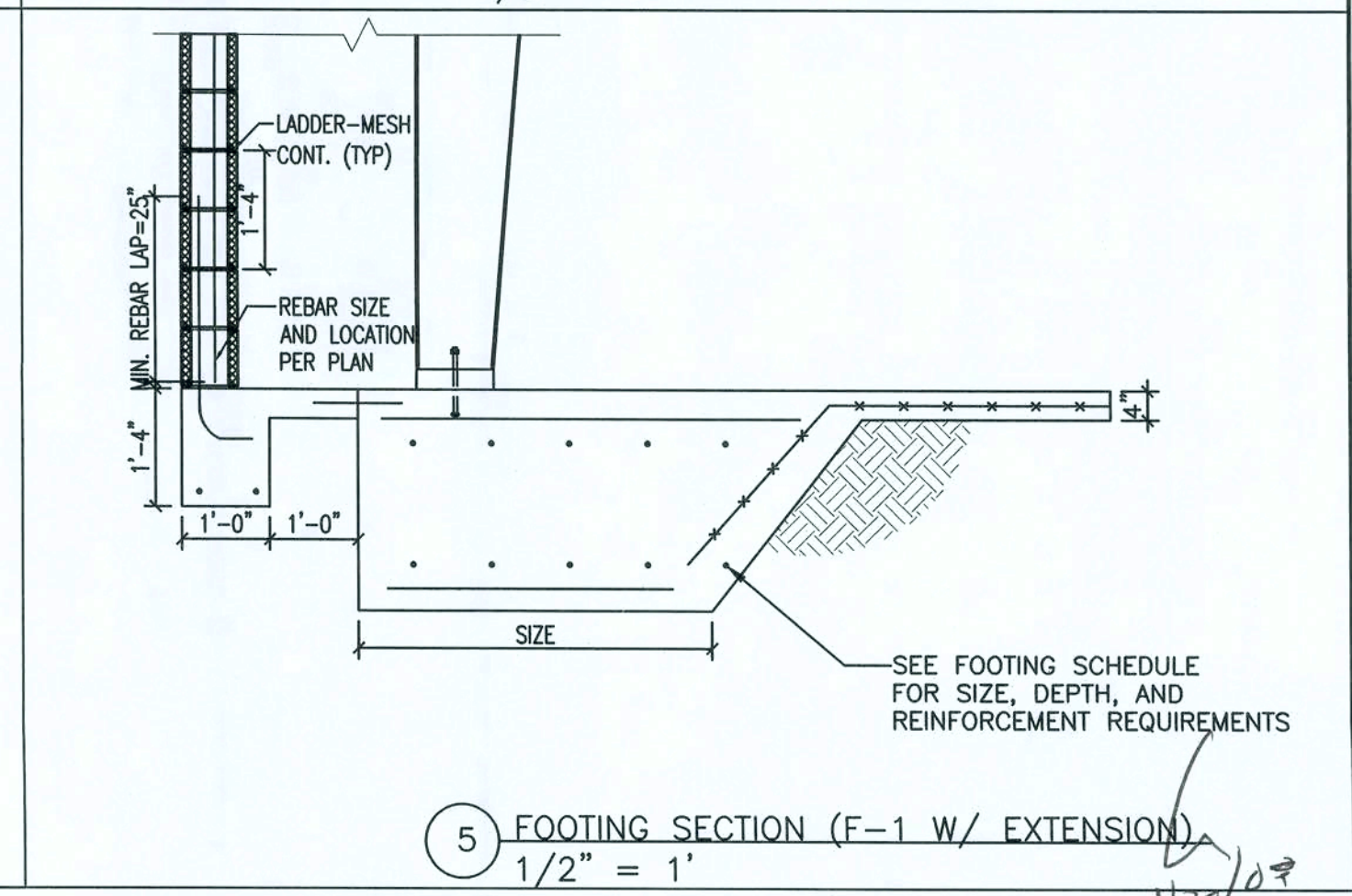
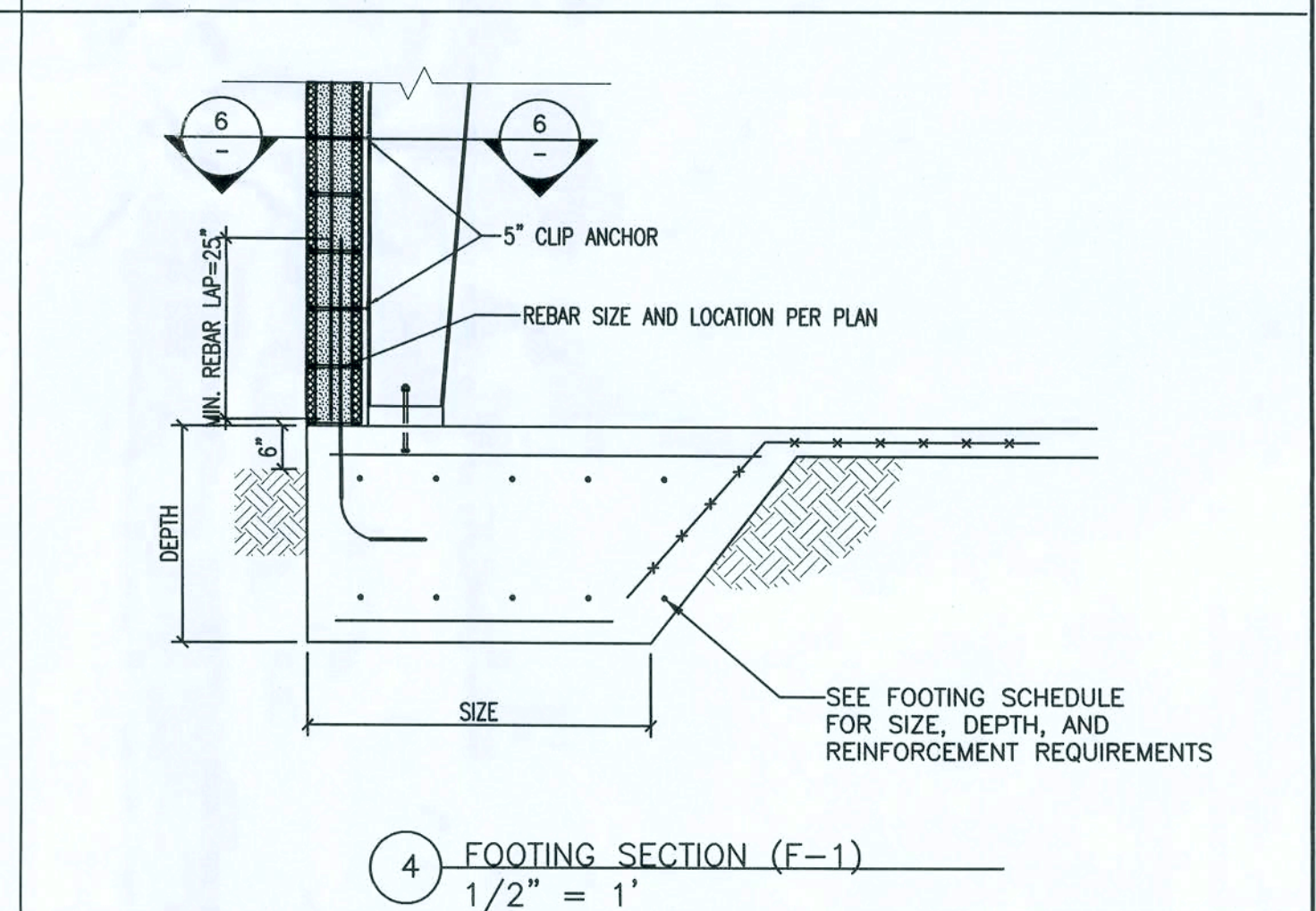
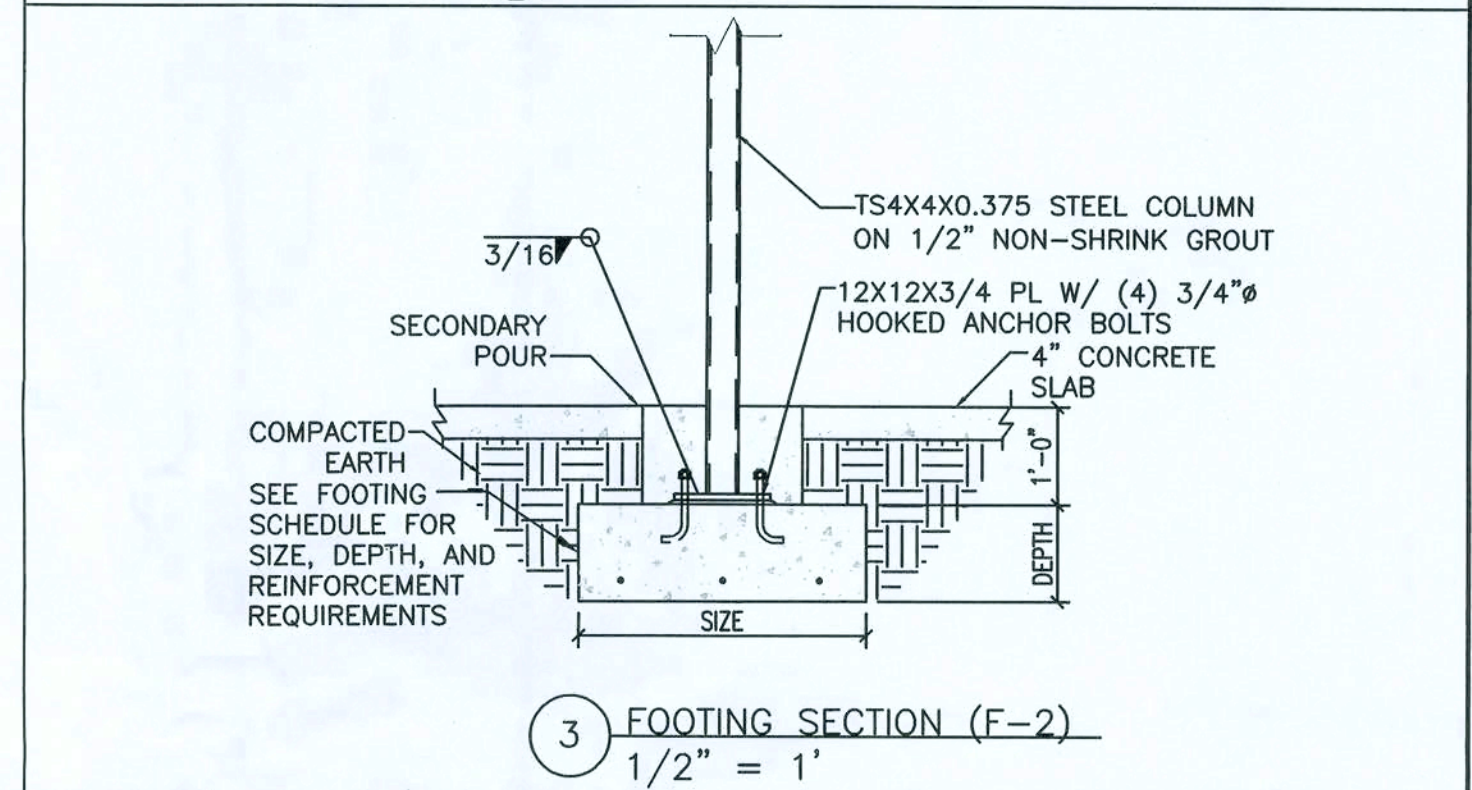
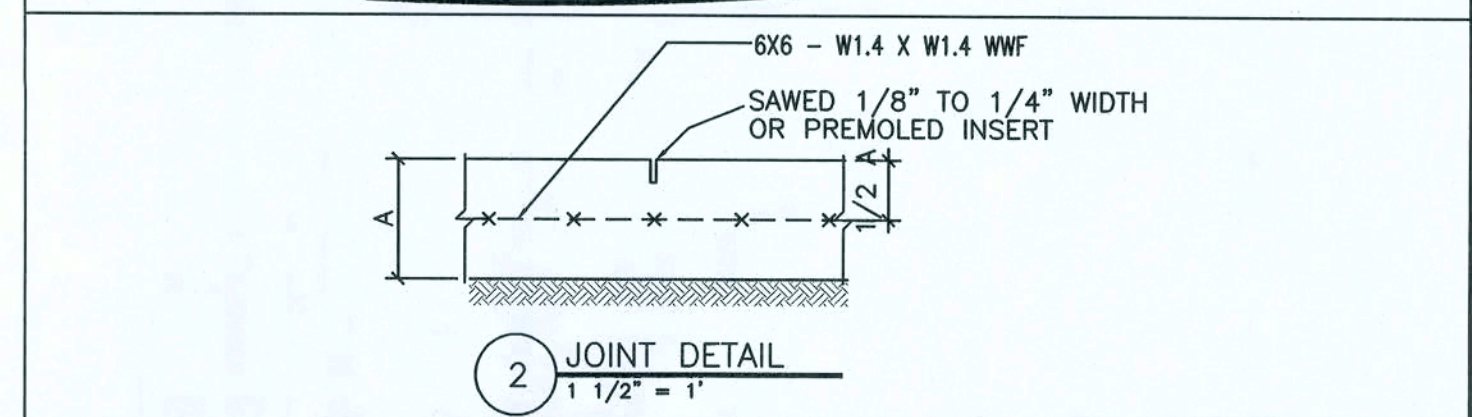
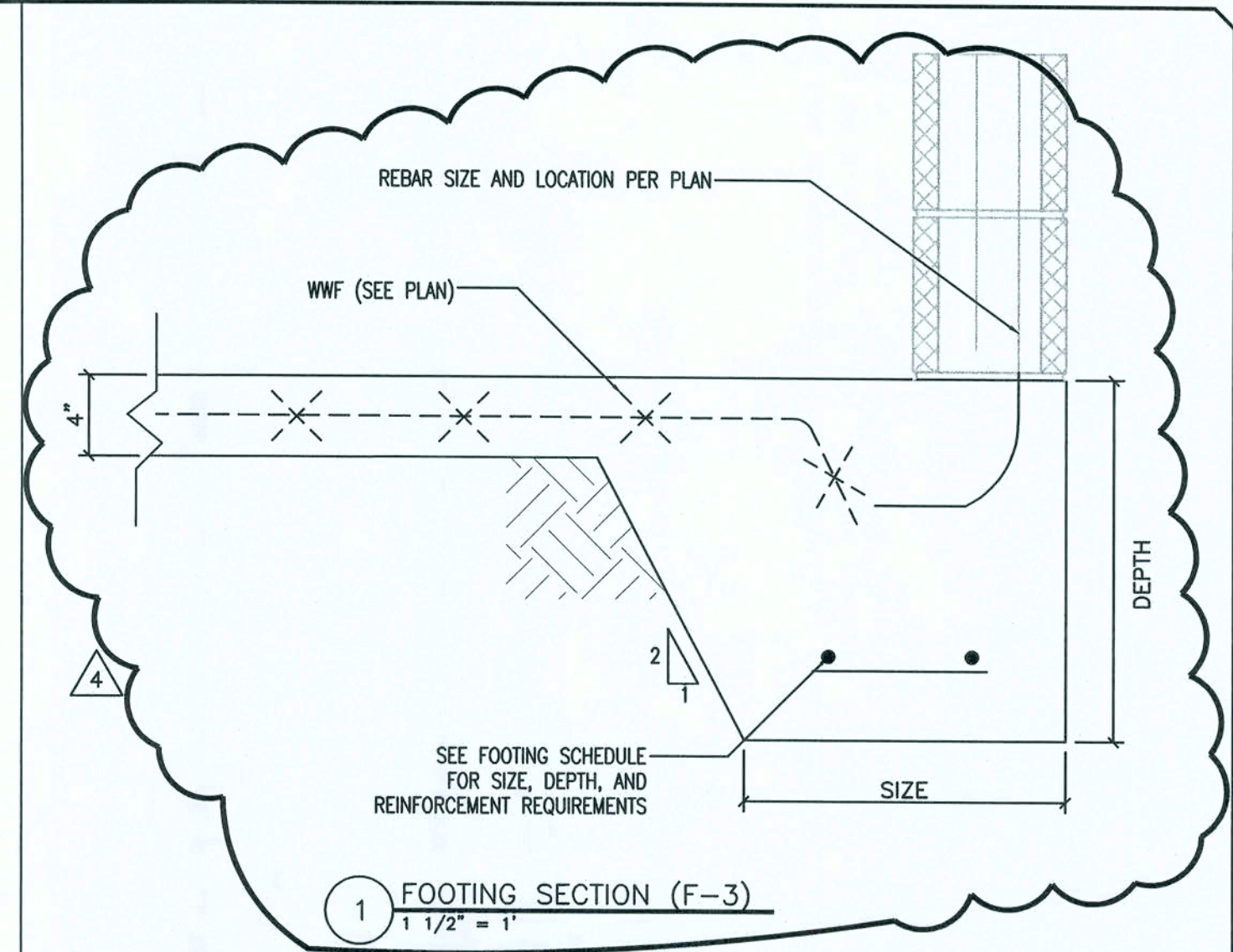
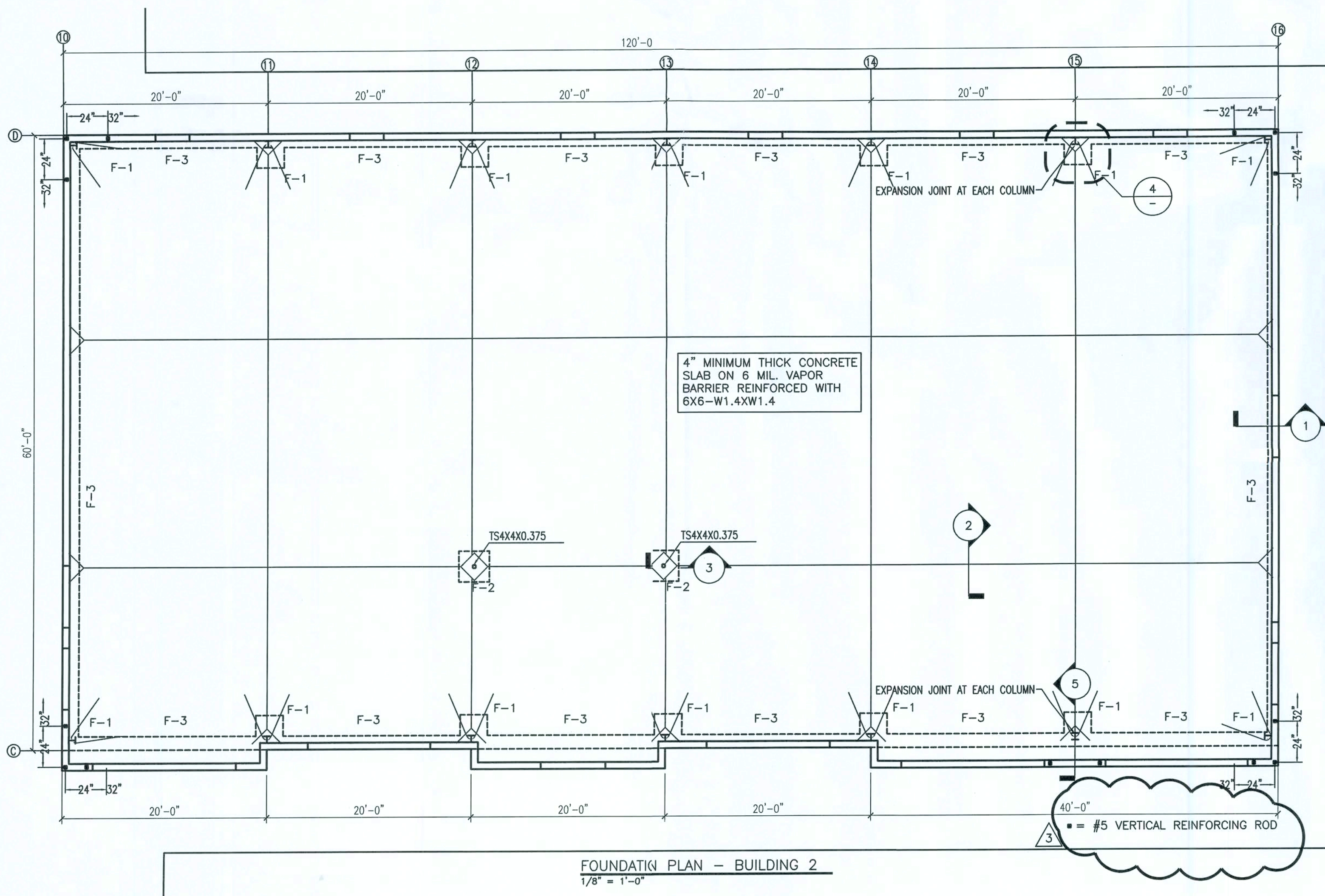
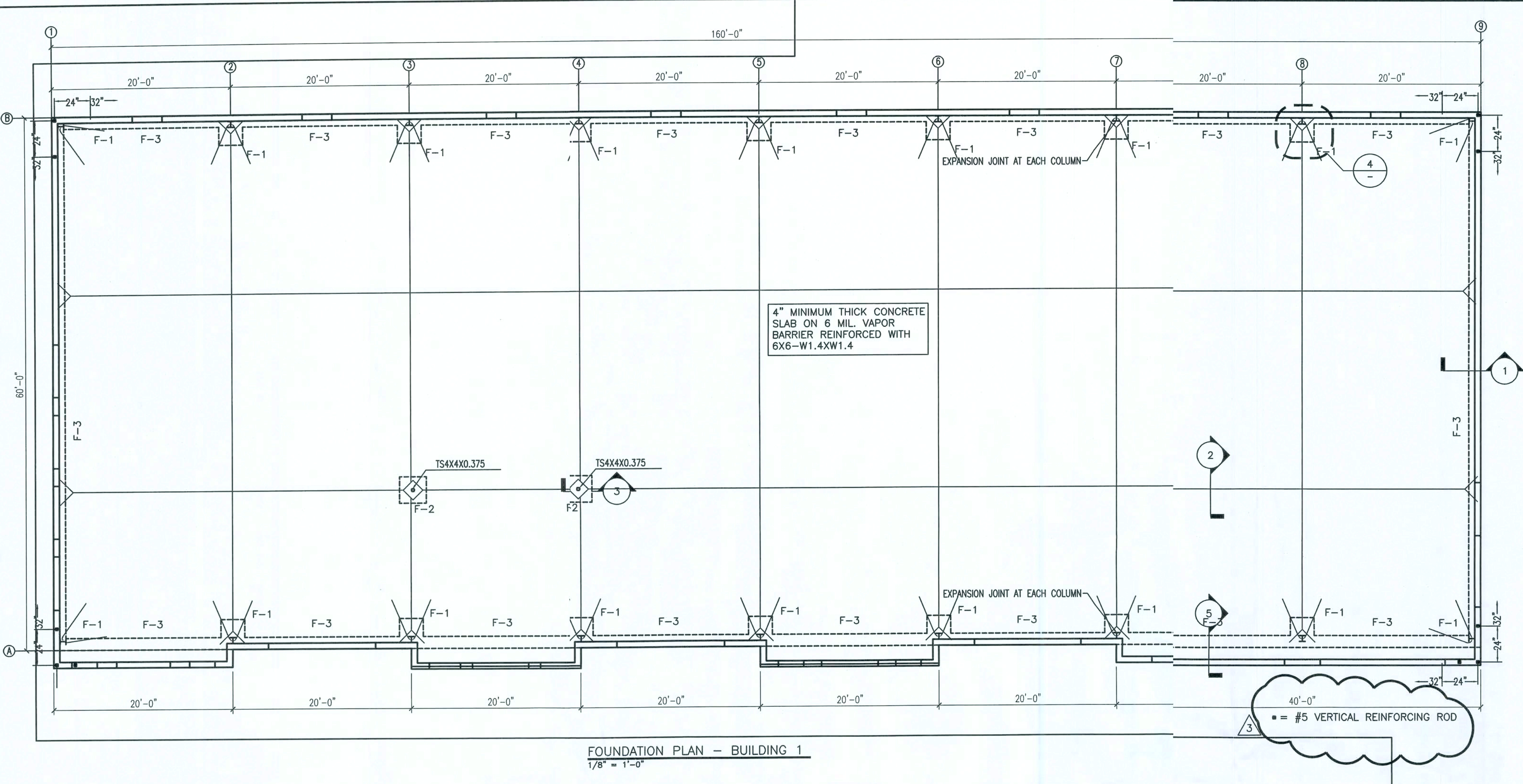
SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

FOUNDATION PLAN - OVERALL

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

S-1.0

REVISION NOTES	
KEY #	DATE
A	09-11-07
B	11-26-07
0	12-03-07
1	01-10-08



FOOTING SCHEDULE						
FOOTING MARK	FOOTING DIMENSIONS		BOTTOM REBAR	TOP REBAR	ANCHOR BOLT	
	SIZE	DEPTH			DIAMETER	TOTAL LENGTH
F-1	4'-0"X4'-0"	2'-6"	(5) #5 E.W.	(5) #5 E.W.	*	*
F-2	3'-0"X3'-0"	2'-6"	(5) #5 E.W.	(5) #5 E.W.	*	*
F-3	1'-4" CONT.	1'-0"	(3) #5 CONT.	N/A	*	*

* ANCHOR BOLTS TO BE DETERMINED BY METAL BUILDING MANUFACTURER

ISSUED FOR CONSTRUCTION

REVISION NOTES

REV #	DATE
A	09-11-07
B	11-28-07
0	12-03-07
1	01-10-08

ISSUED FOR REVIEW

ISSUED FOR REVIEW

ISSUED FOR CONSTRUCTION

GEN. REV. PER CONTRACTOR

PROJECT NUMBER

PF06-163-S

DRAWN BY

F. VULETICH

CHECKED BY

G.G.

SHOPS AT THE CROSSROADS

NEW STRIP MALL

LAKE CITY, FLORIDA

FOUNDATION PLAN

BLDGS II & III

P.O. Box 187

130 West Howard Street

Live Oak, FL 32064

Phone: (386) 362-3678

Fax: (386) 362-6133

Autn. # 51942

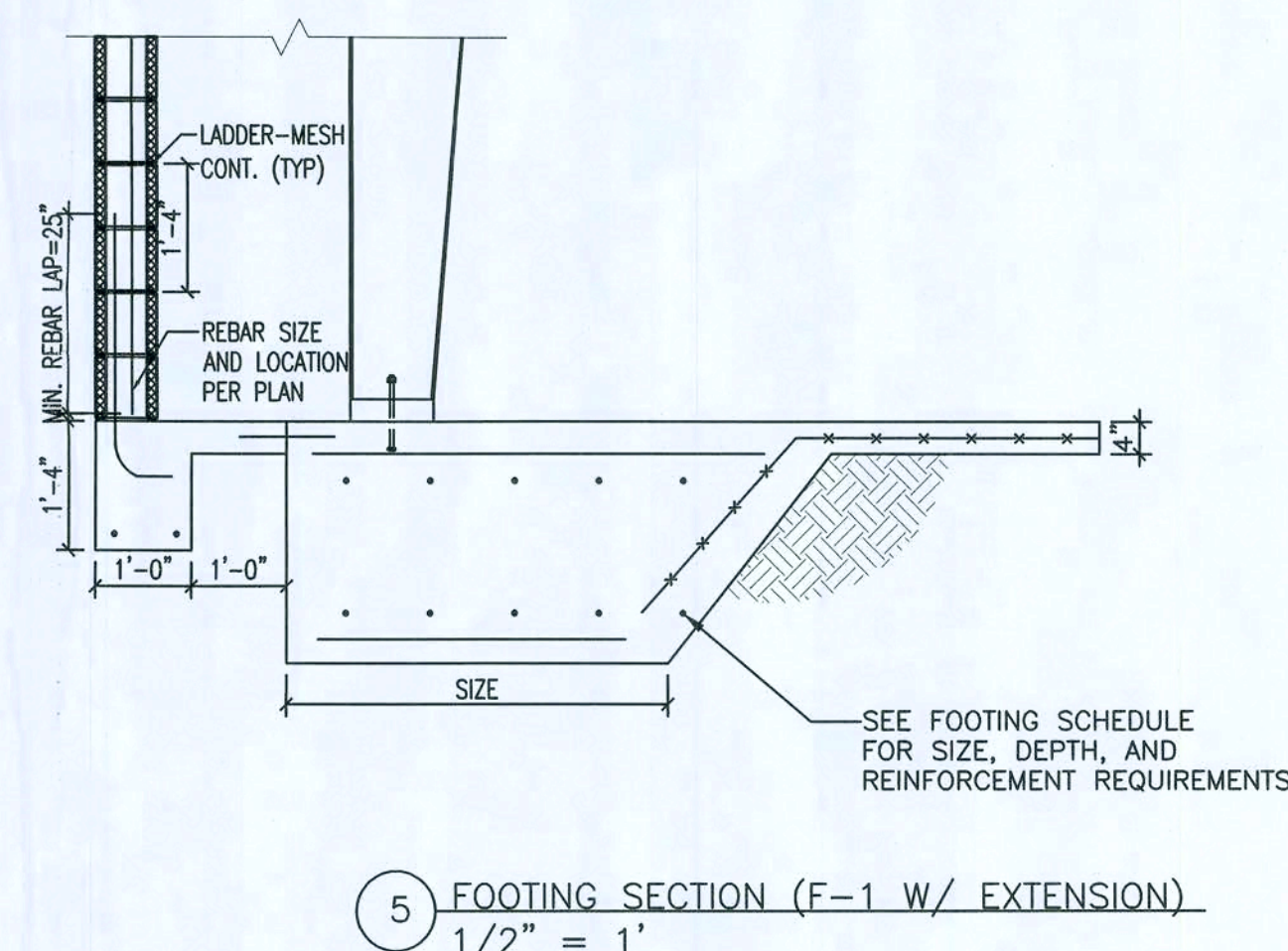
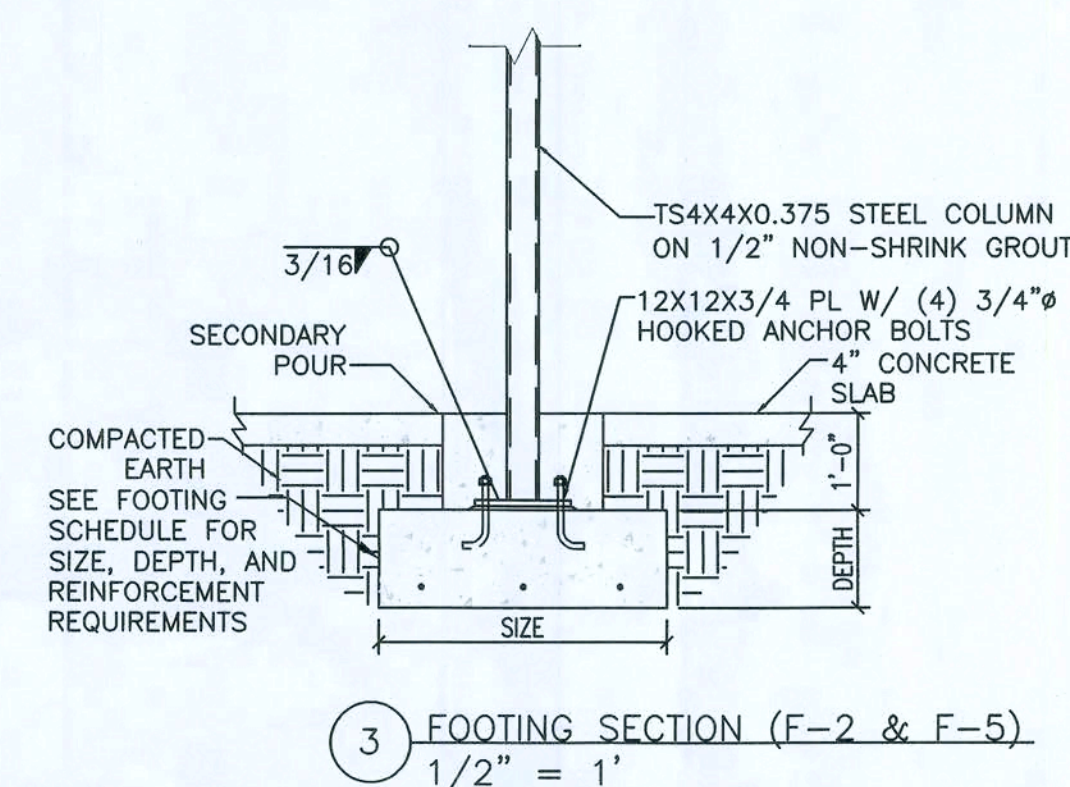
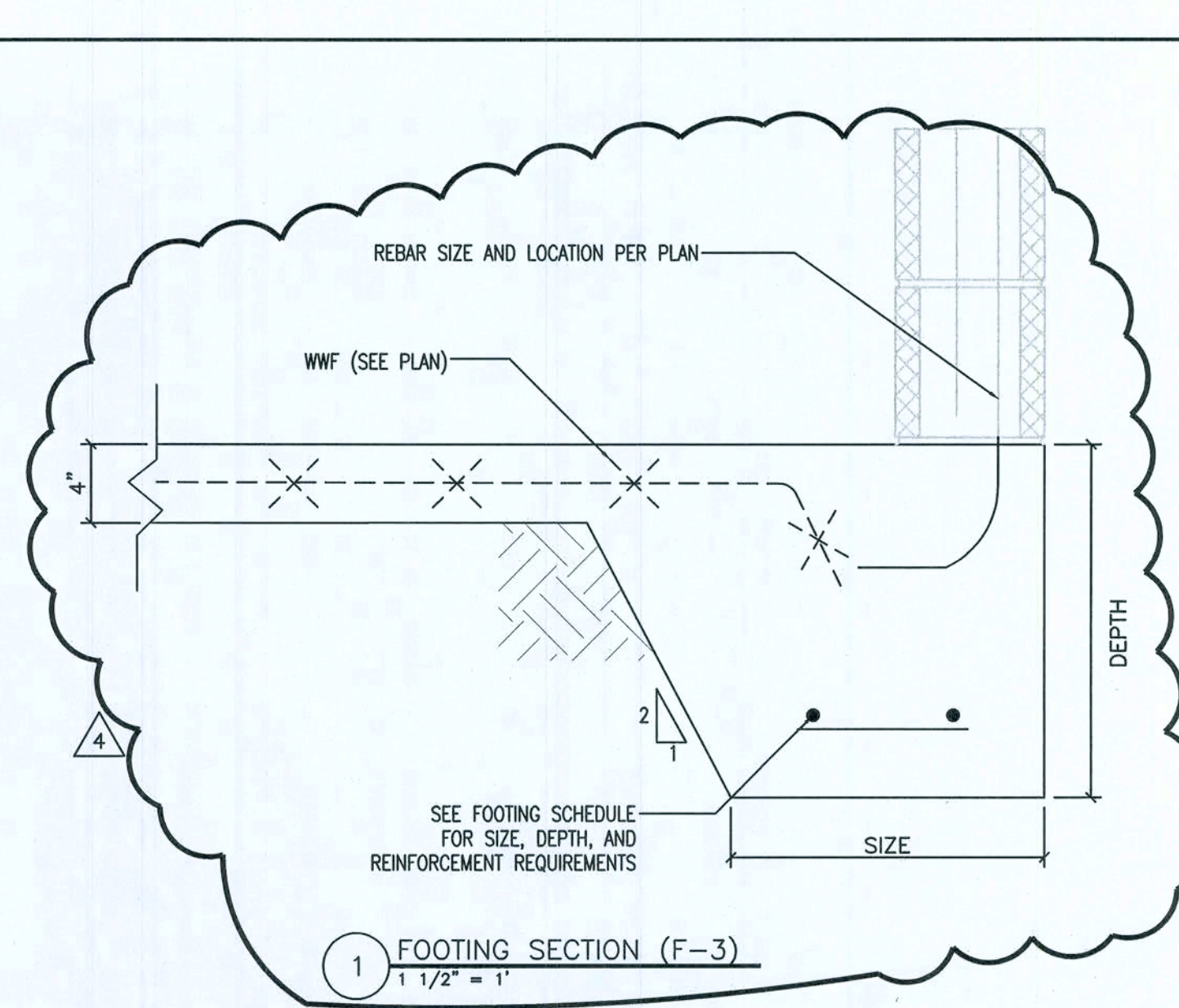
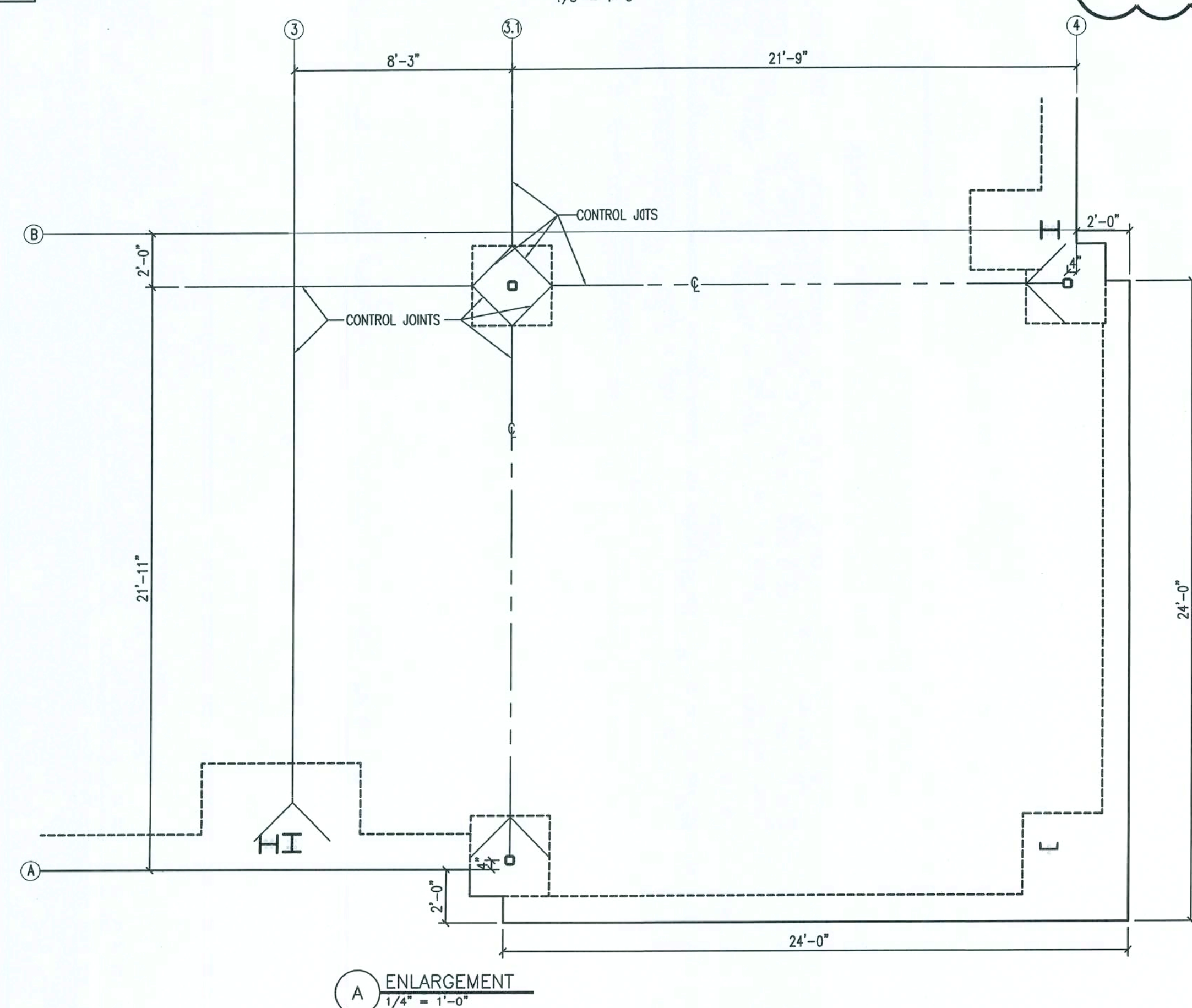
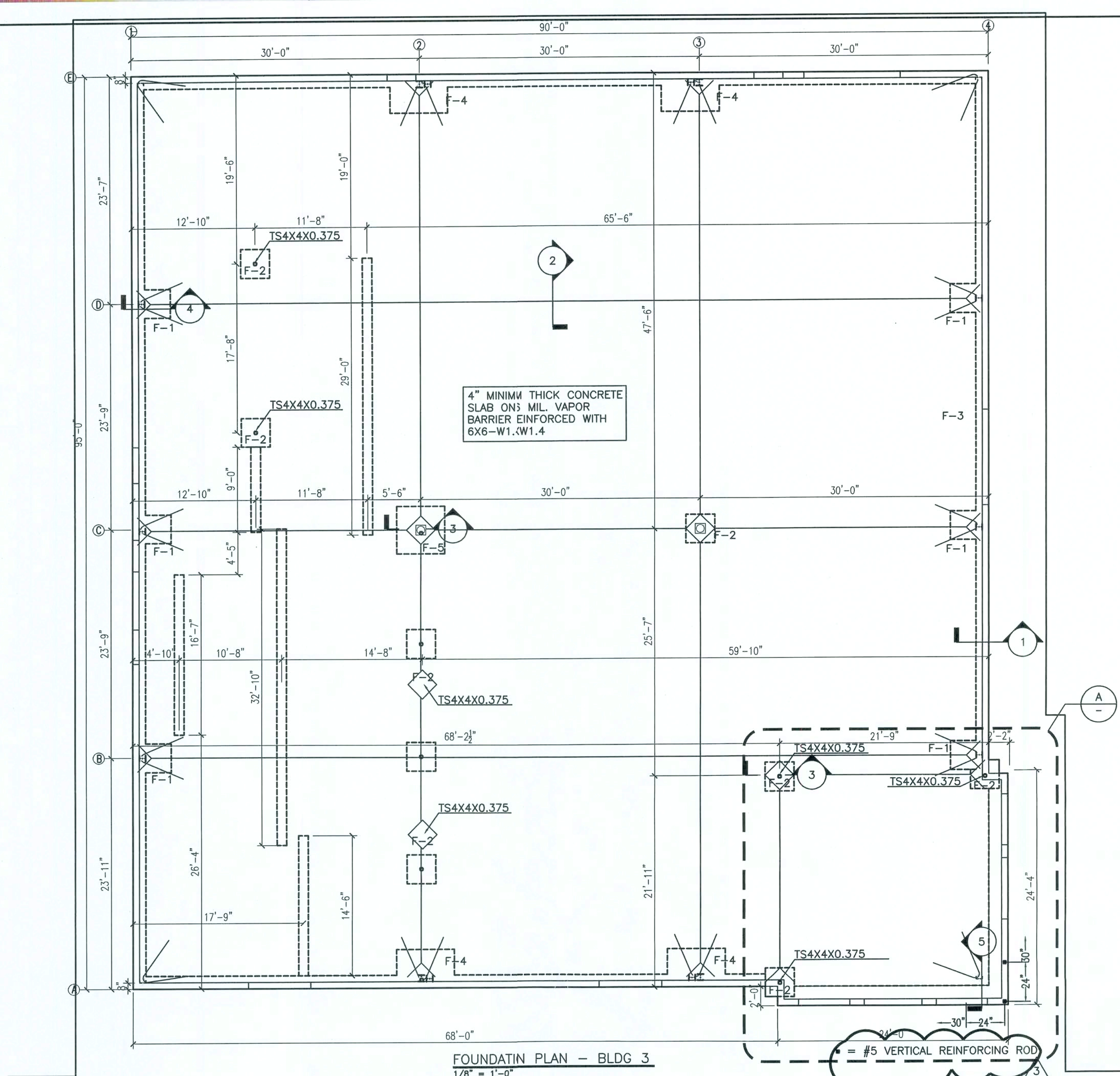
STRUCTURAL/CIVIL ENGINEERS

GARY GILL, P.E.

30-Jan-08

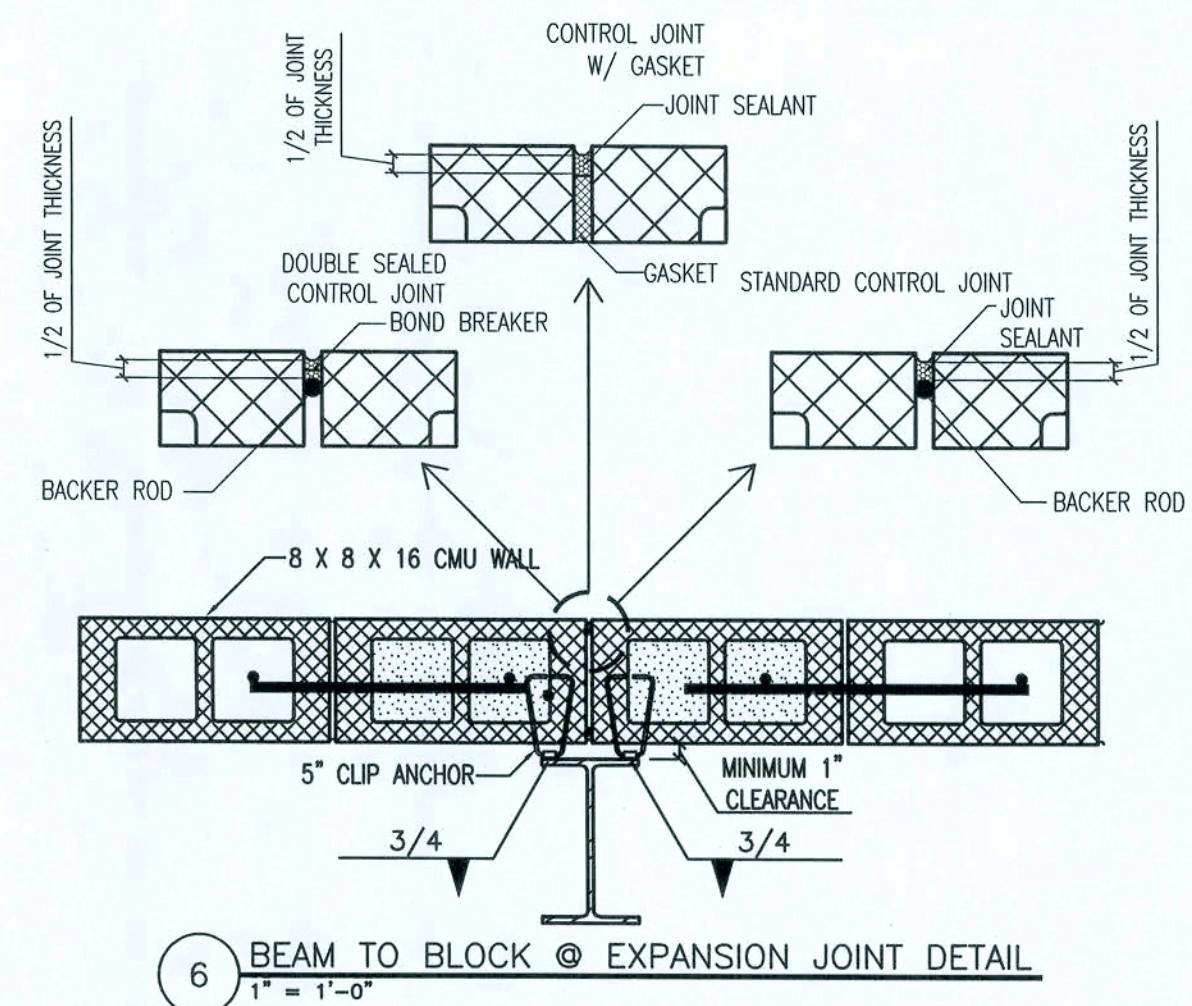
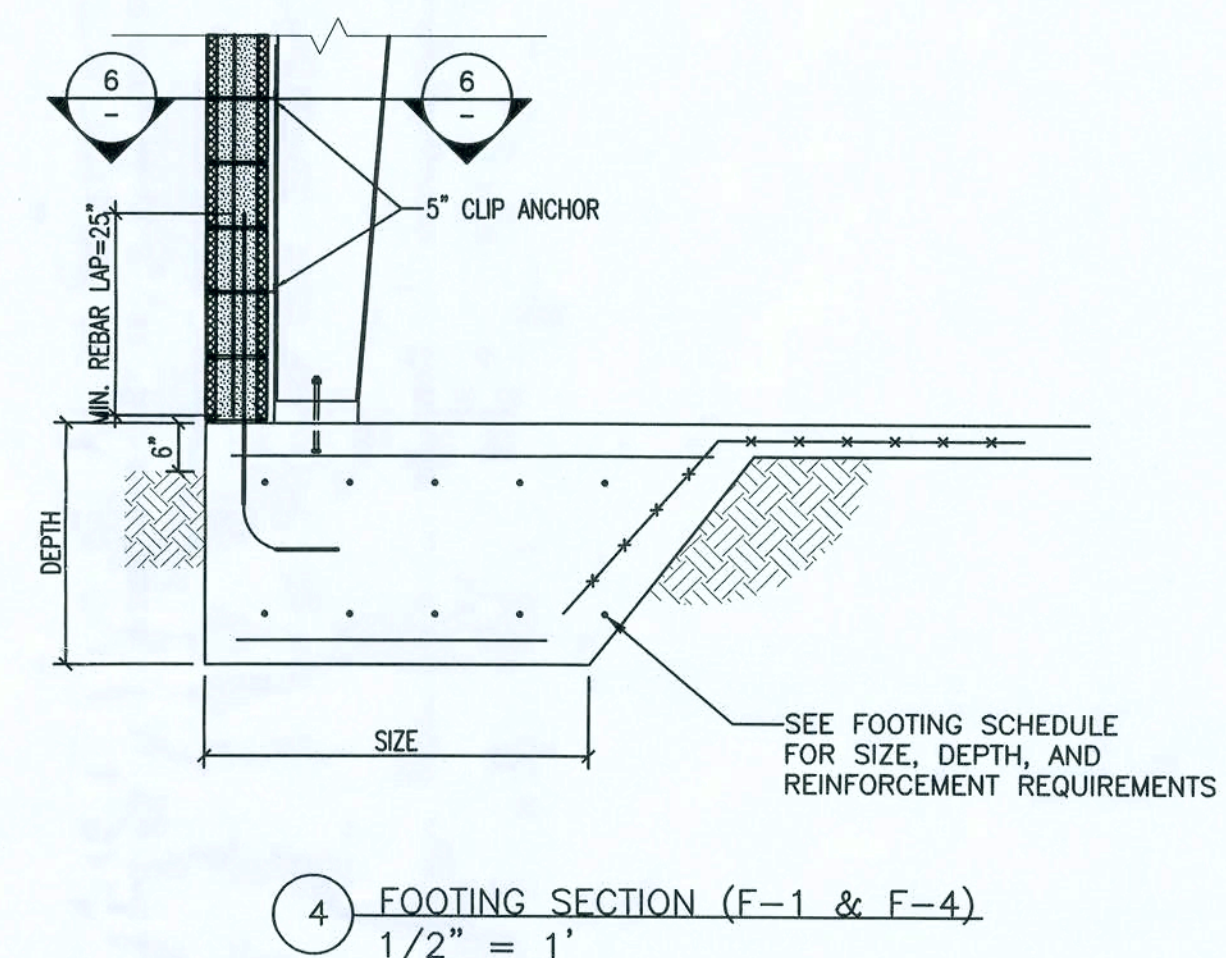
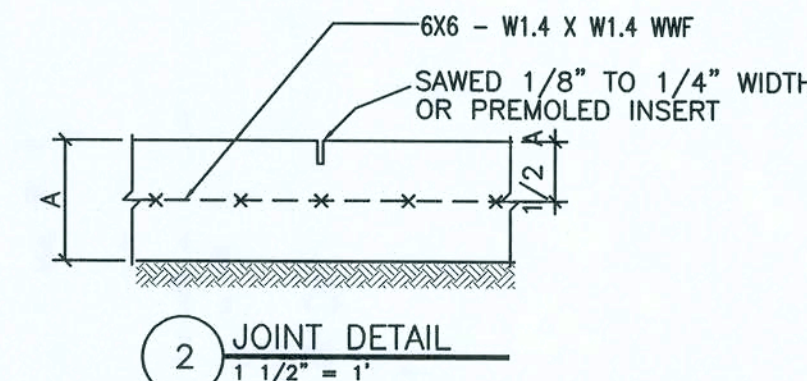
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SHEET 8 OF 23



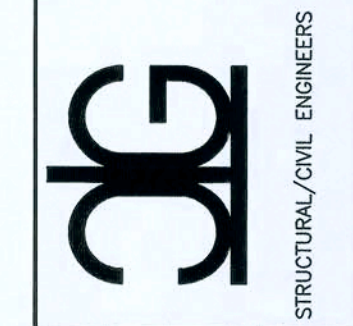
FOOTING SCHEDULE							
FOOTING MARK	FOOTING DIMENSIONS		BOTTOM REBAR	TOP REBAR	ANCHOR BOLT		
	SIZE	DEPTH			DIAMETER	TOTAL LENGTH	EMBEDMEN
F-1	4'-0"x4'-0"	2'-6"	(5) #5 E.W.	(5) #5 E.W.	*	*	*
F-2	3'-0"x3'-0"	2'-6"	(5) #5 E.W.	(5) #5 E.W.	*	*	*
F-3	1'-4" CONT.	1'-0"	(3) #5 CONT.	N/A	N/A	N/A	N/A
F-4	6'-0"x4'-0"	2'-6"	#5 @ 12" O.C.	#5 @ 12" O.C.	*	*	*
F-5	5'-0"x5'-0"	2'-6"	(8) #5 E.W.	(8) #5 E.W.	*	*	*

* ANCHOR BOLTS TO BE DETERMINED BY METAL BUILDING MANUFACTURER



REV #	DATE	REVISION NOTES
A	09-11-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR

P.O. Box 187
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Gary Gill PE 51942
Auth. # 9461



SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

FOUNDATION PLAN
BLDG III

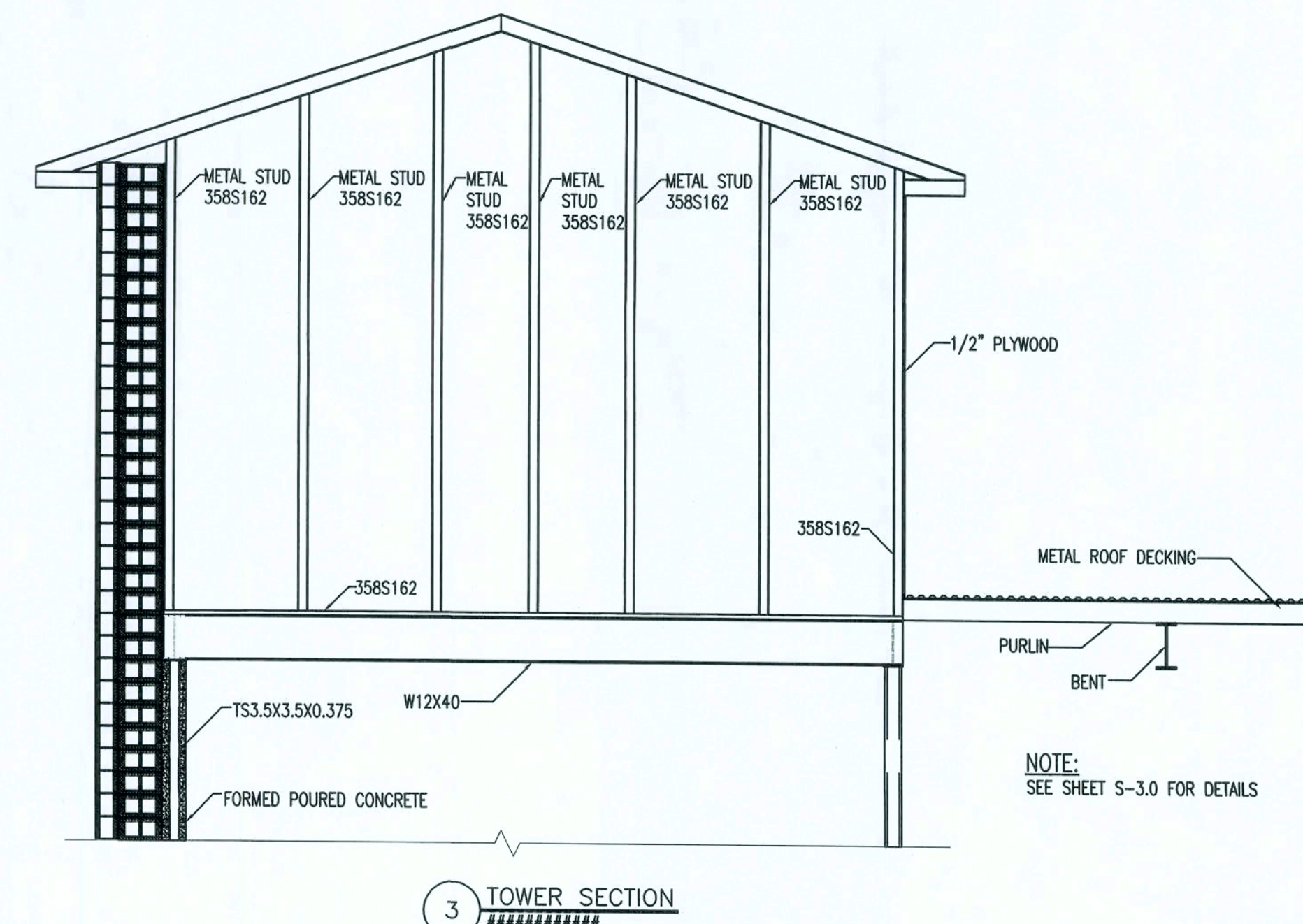
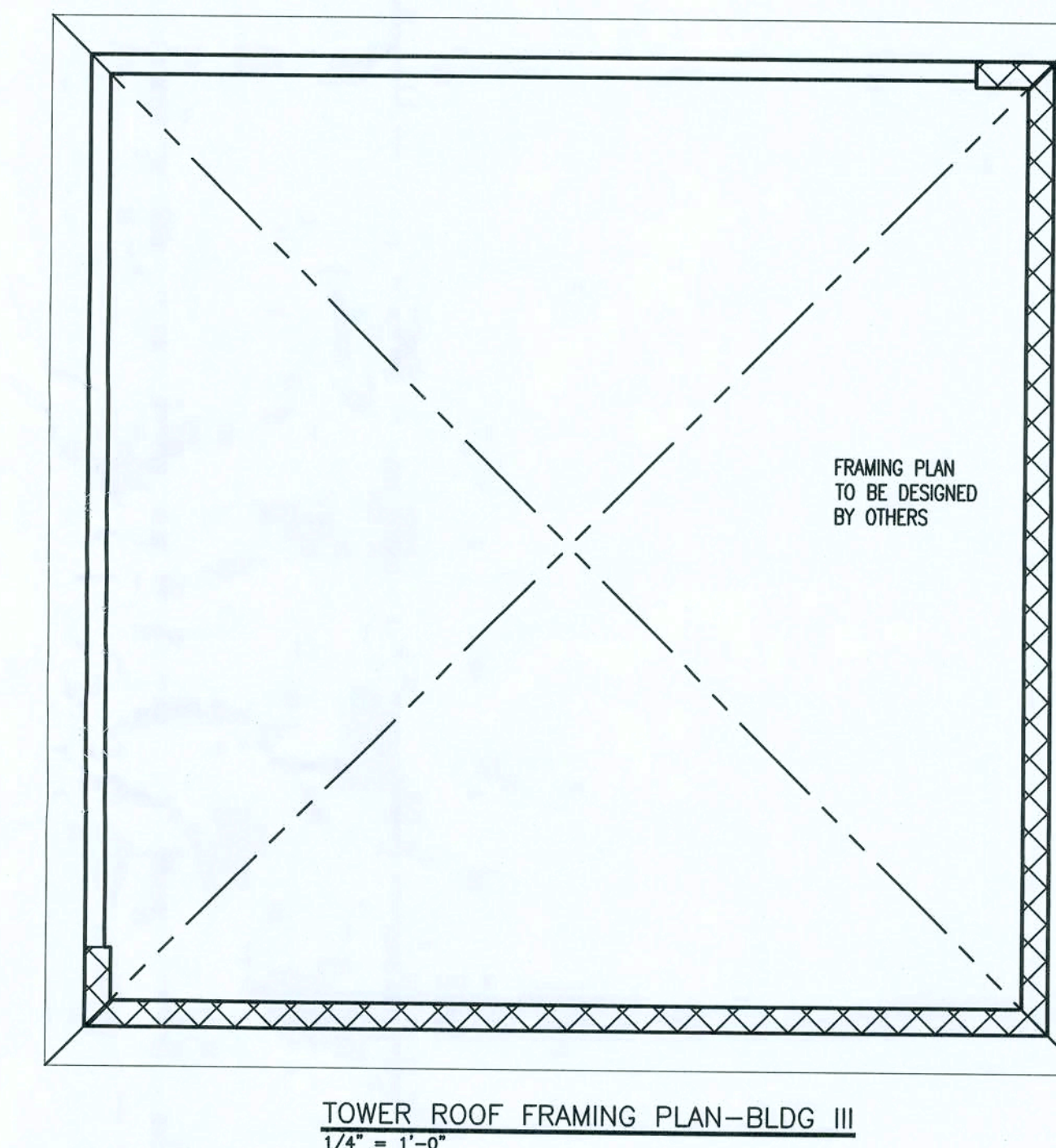
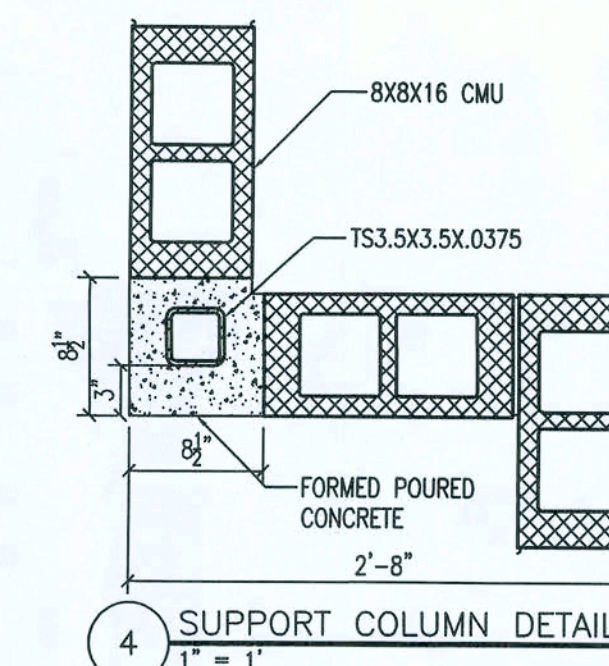
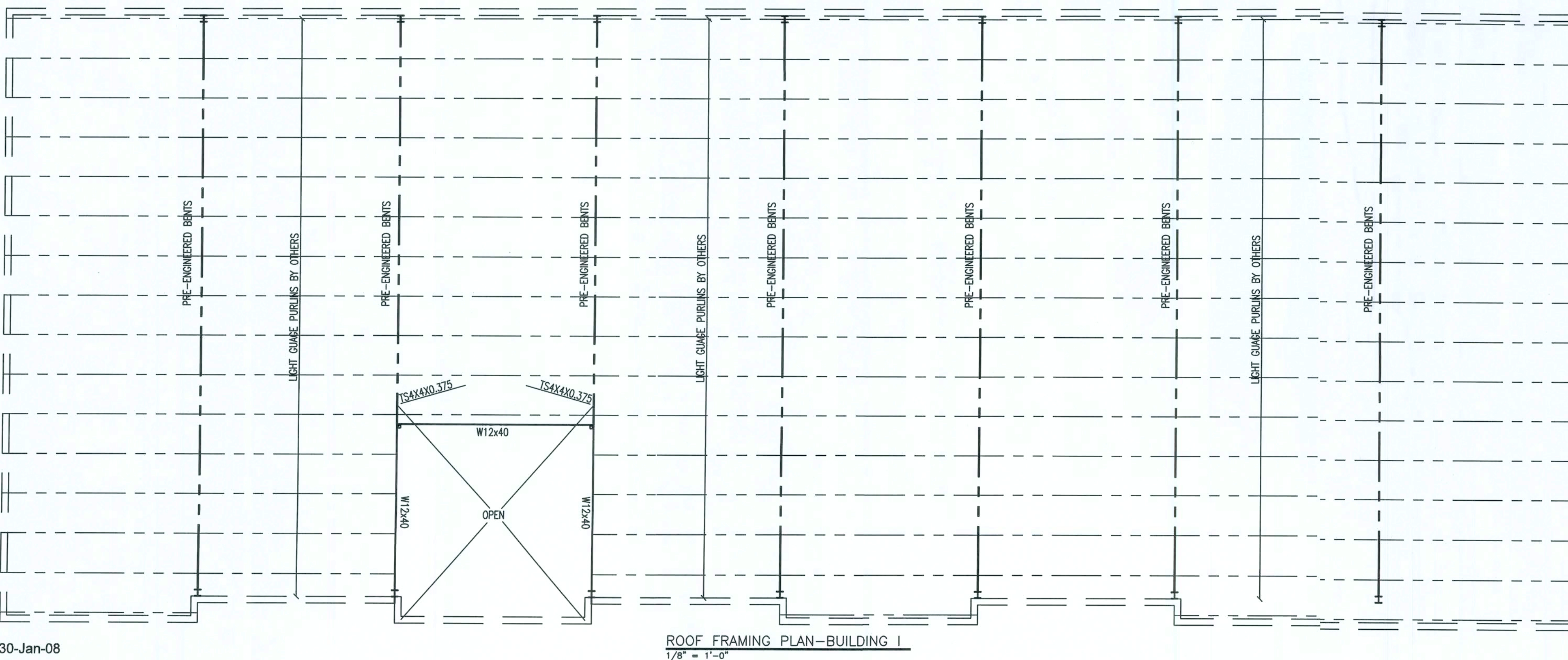
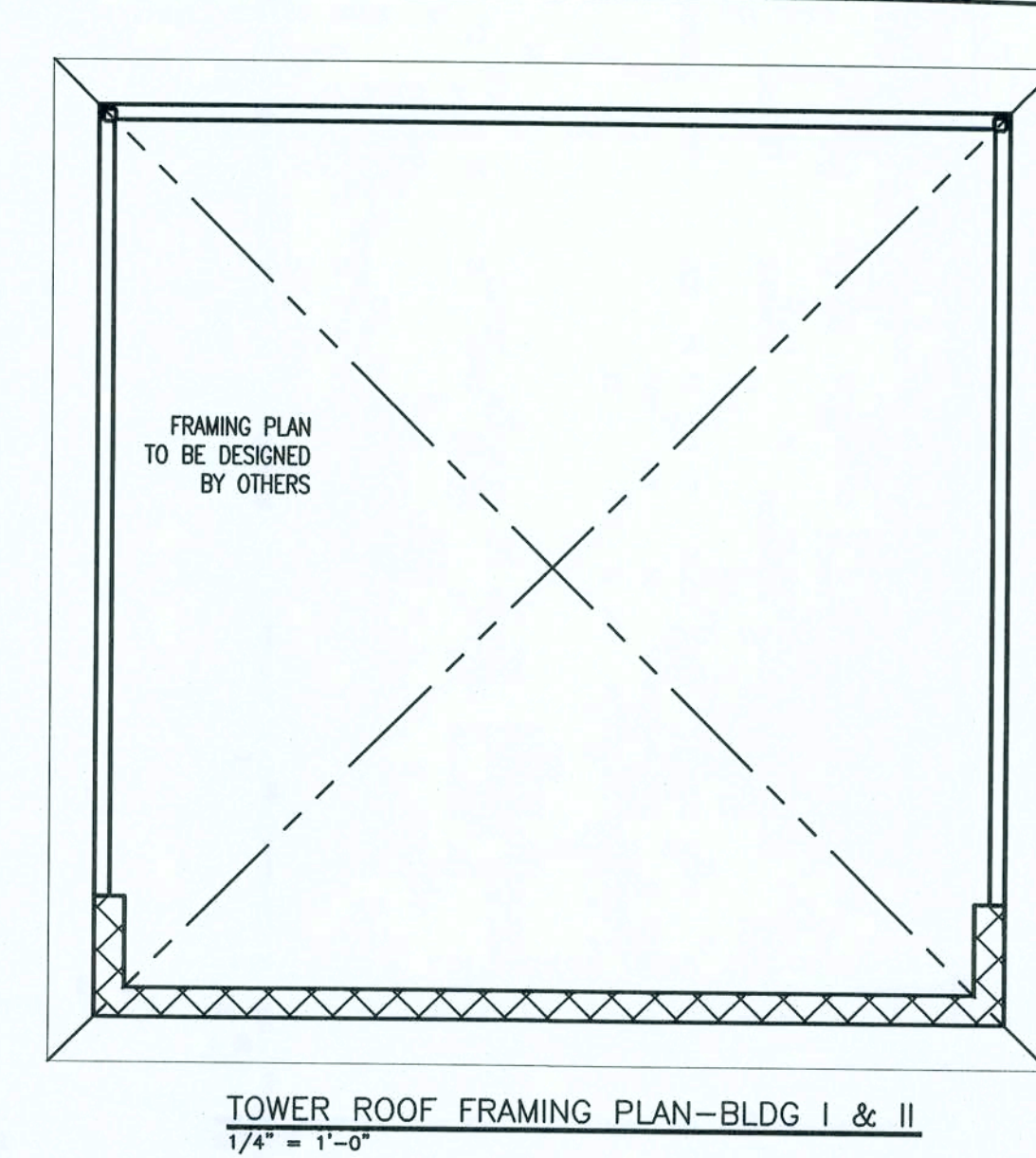
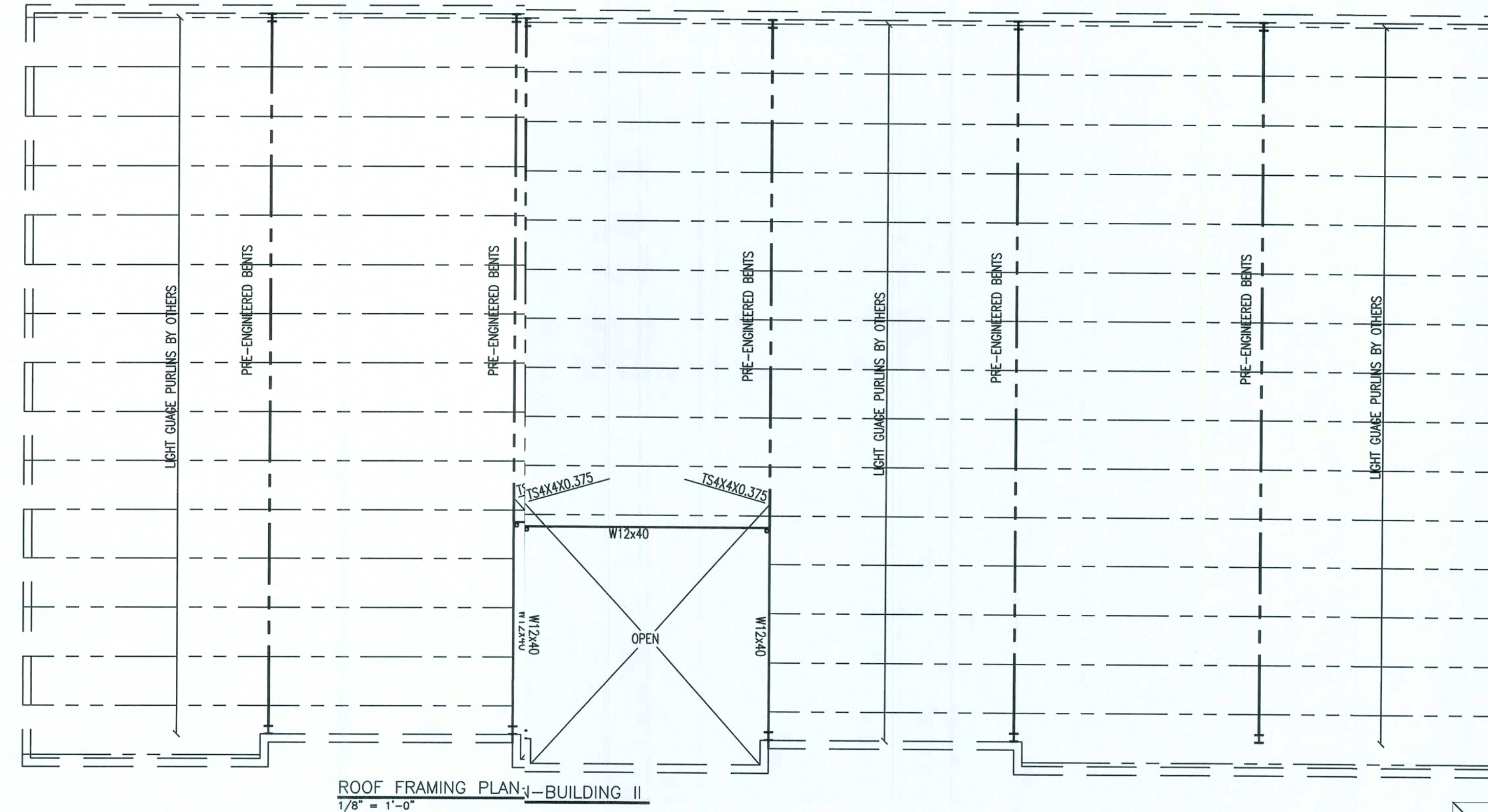
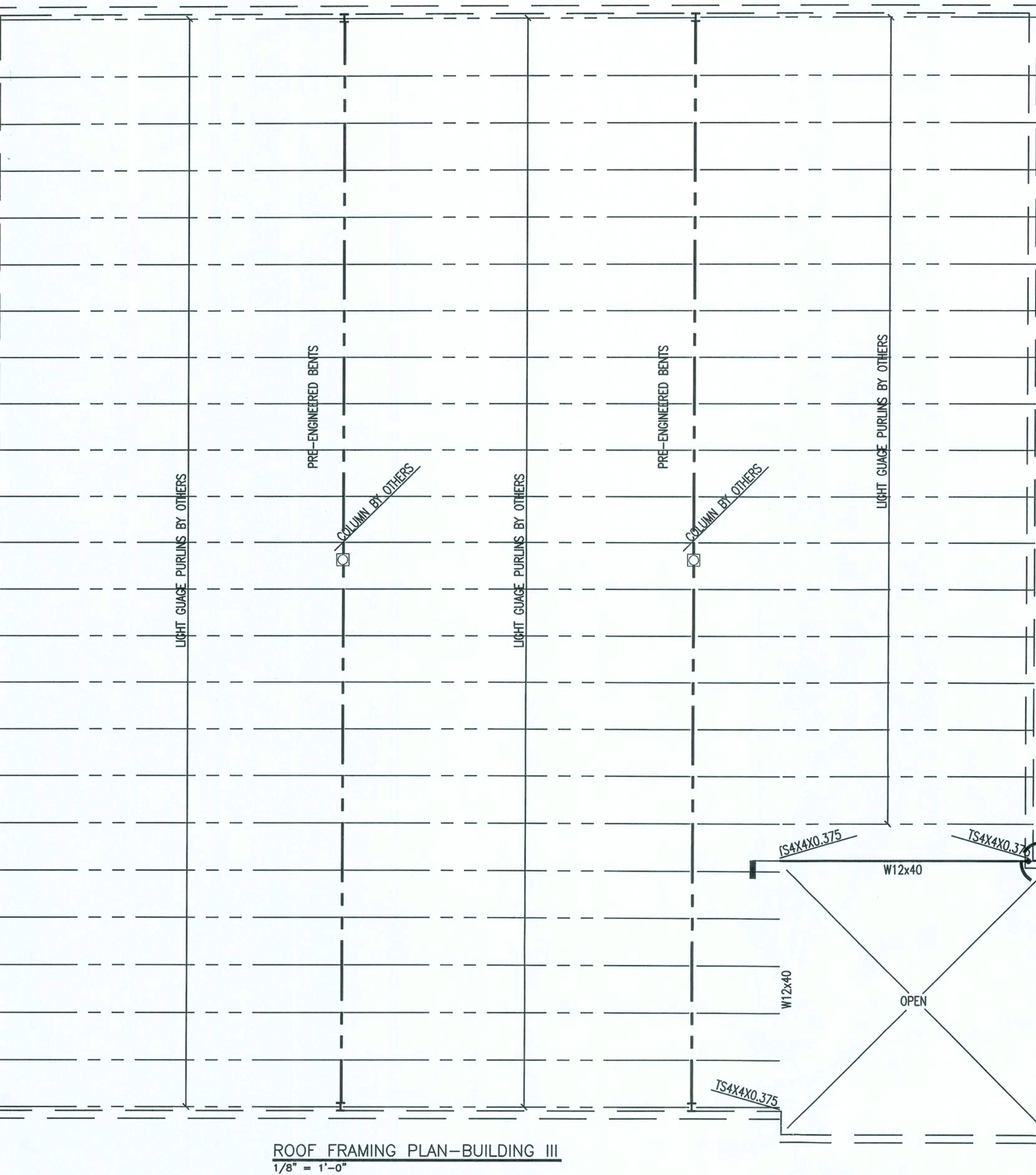
PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

S-1.2

SHEET 9 OF 23

ISSUED FOR CONSTRUCTION

1/30/08



ISSUED FOR CONSTRUCTION

REV #	DATE	REVISION NOTES
B	11-26-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR

Rev. 187
P.O. Box 187
130 West Howard Street
Lake City, FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth. # 9461



STRUCTURAL/CIVIL ENGINEER

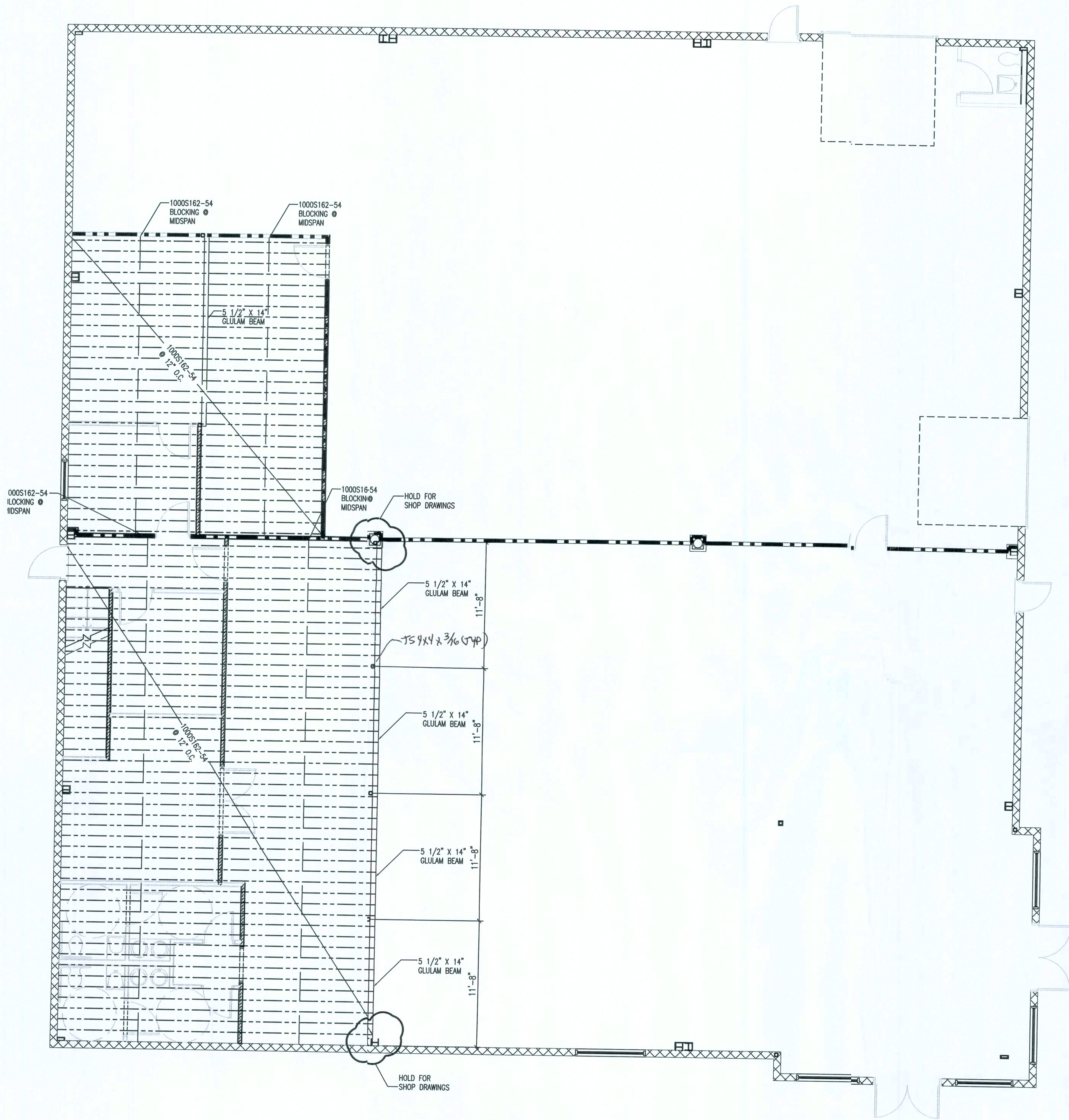
SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

ROOF FRAMING PLAN

PROJECT NUMBER
P-06-163-S
DRAWN BY
F.VULETICH
CHECKED BY
G.G.

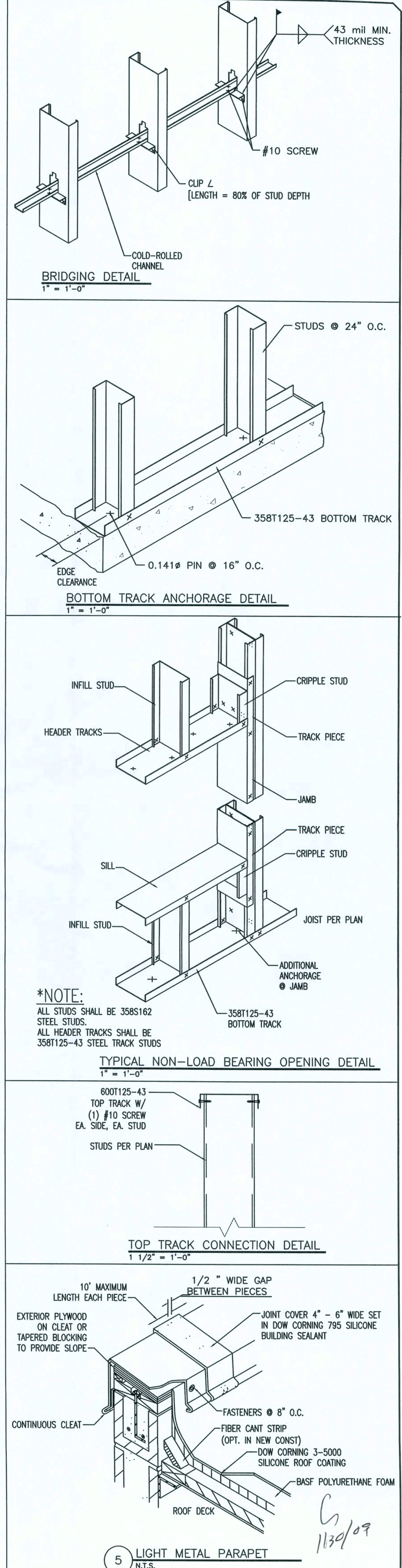
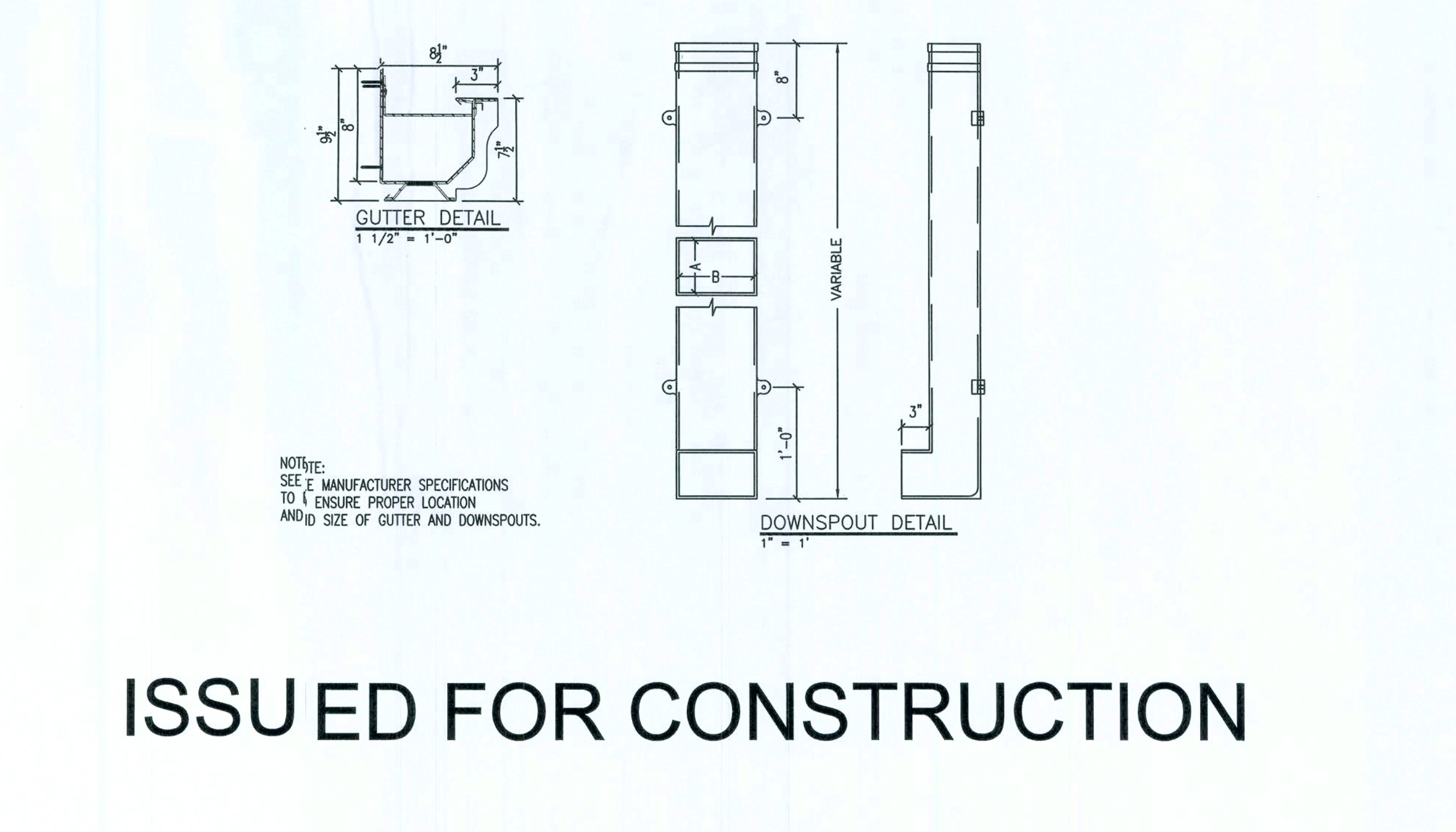
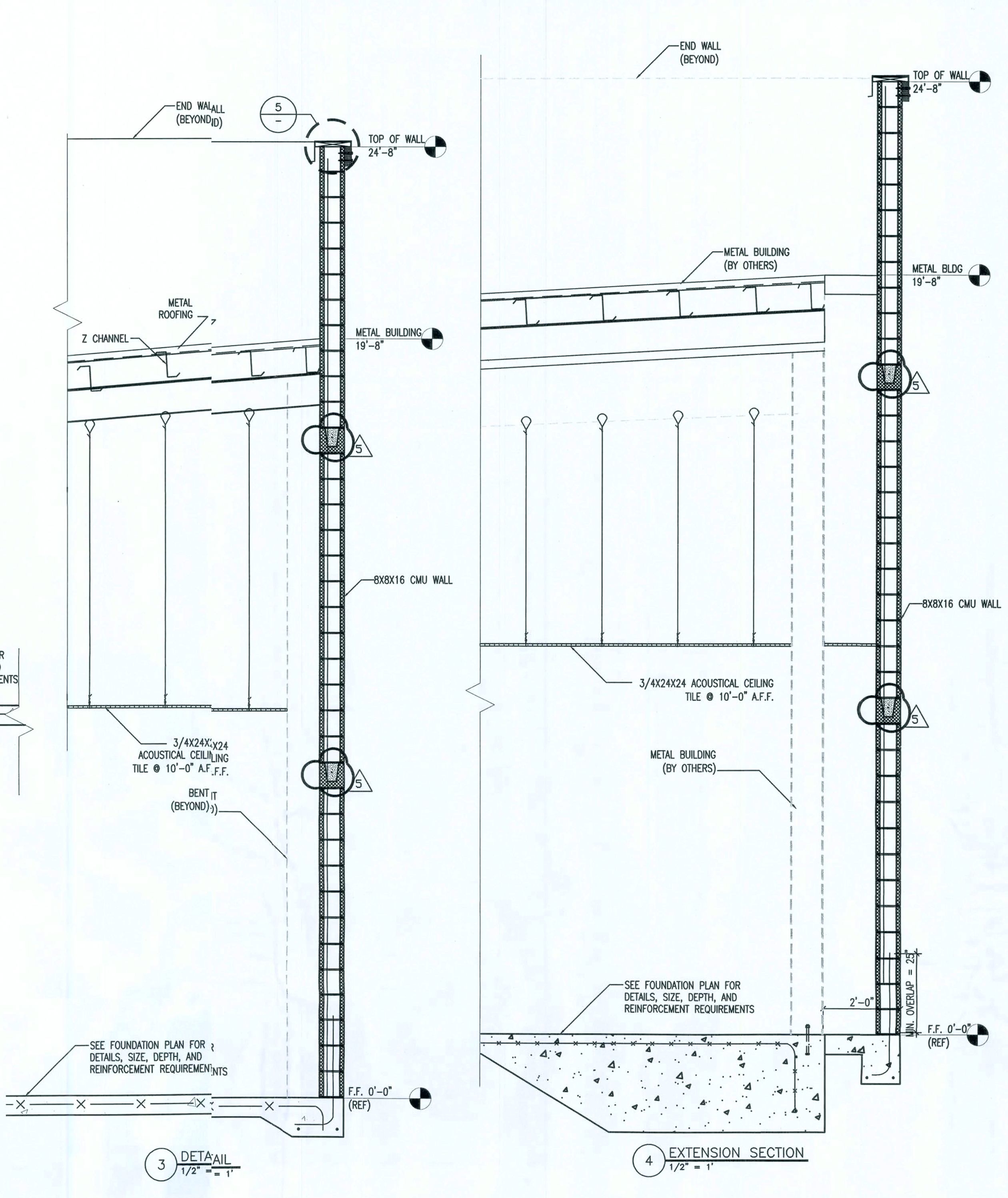
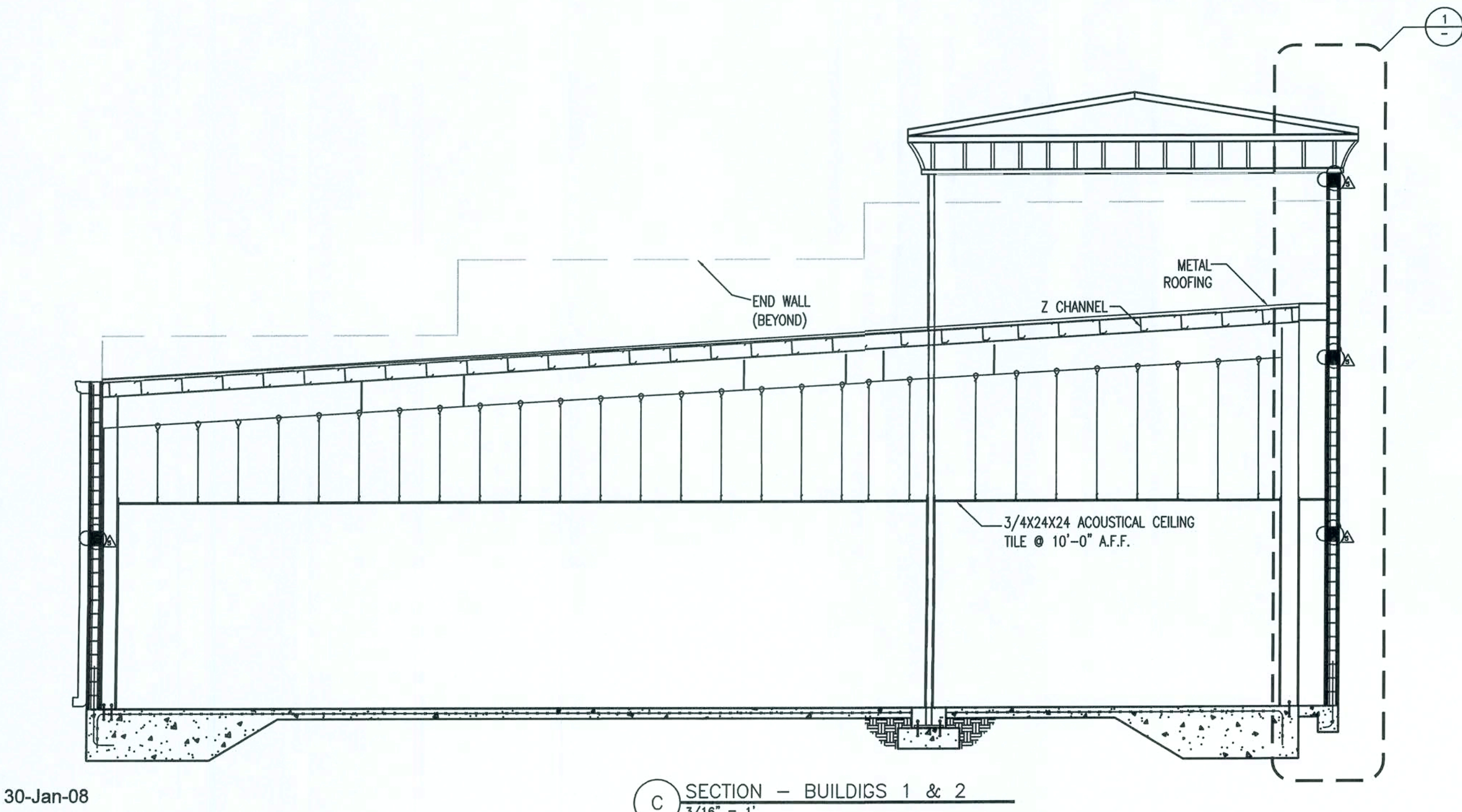
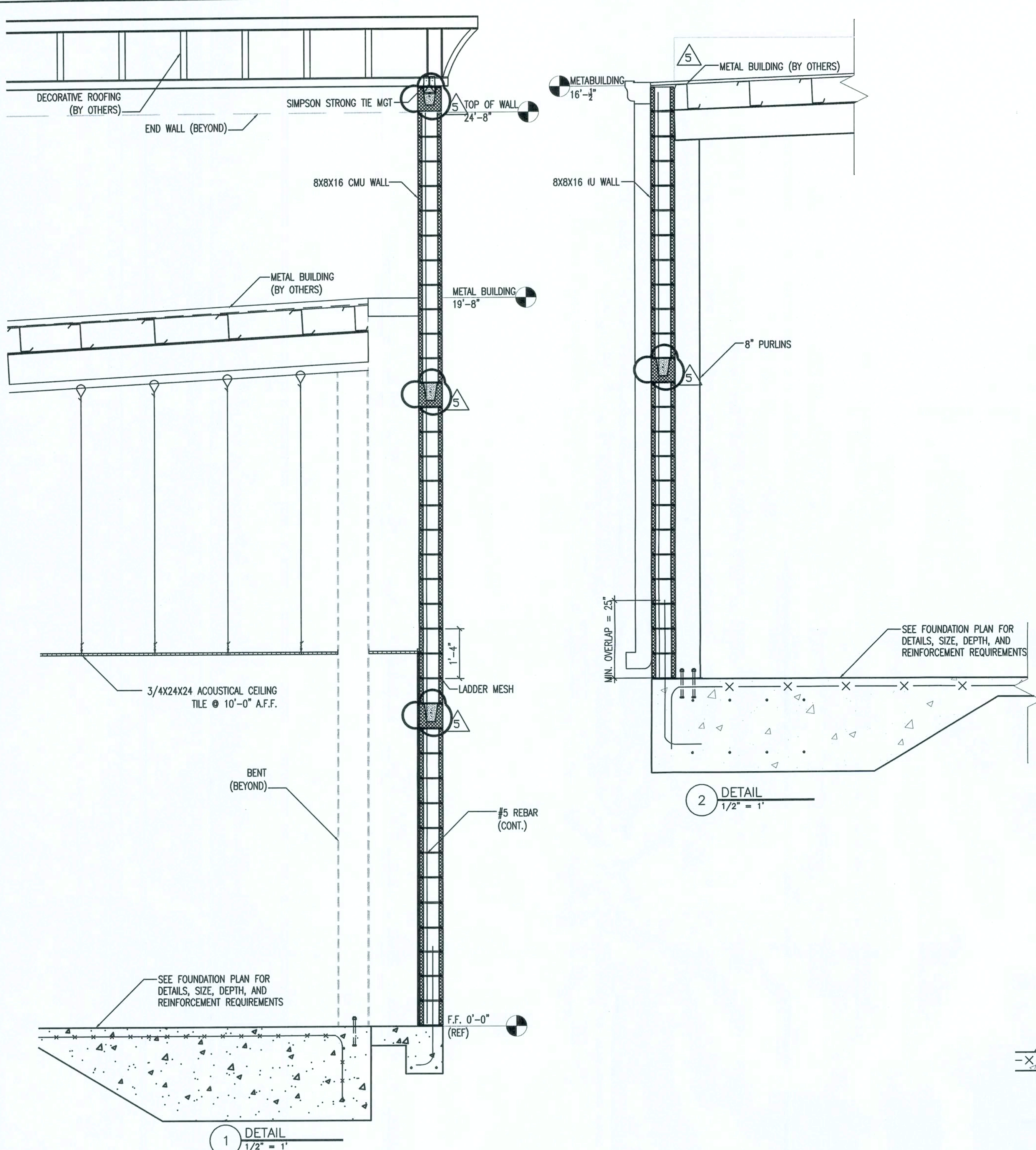
S-2.0

SHEET 10 OF 23



1/30/08

PROJECT NUMBER PF06-163-S		FLOOR FRAMING PLAN		SHOPS AT THE CROSSROADS NEW STRIP MALL LAKE CITY, FLORIDA		 P.O. Box 187 130 West Howard Street Live Oak, FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 STRUCTURAL ENGINEER Gary J. Gill, PE 51942 Auth. # 9461		REV # 1	DATE 01-23-08	REVISION NOTES GEN. REV. PER CONTRACTOR	
DRAWN BY F. WULETICH											
CHECKED BY G.G.											
S-4.0											



REV. #	DATE	REVISION NOTES
A	09-11-07	ISSUED FOR REVIEW
B	11-28-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR

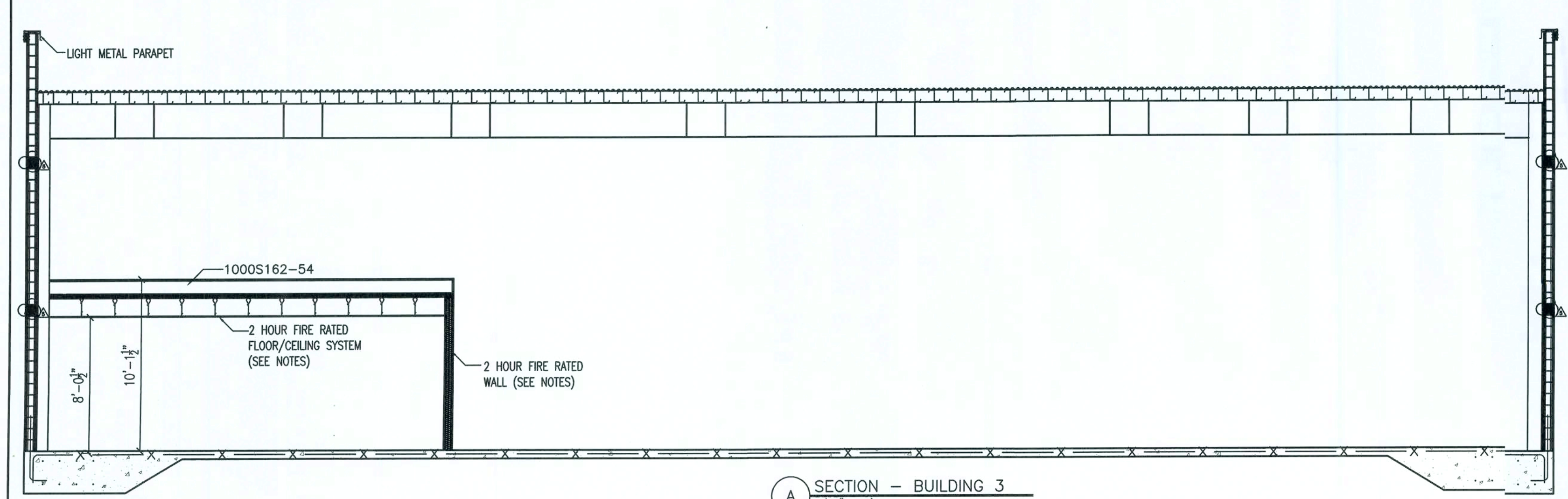
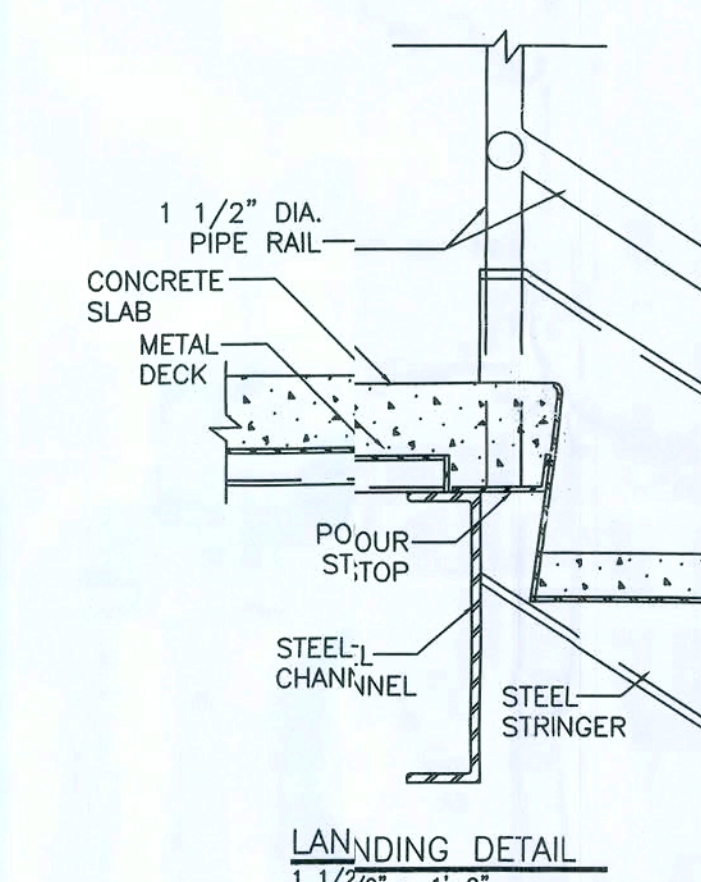
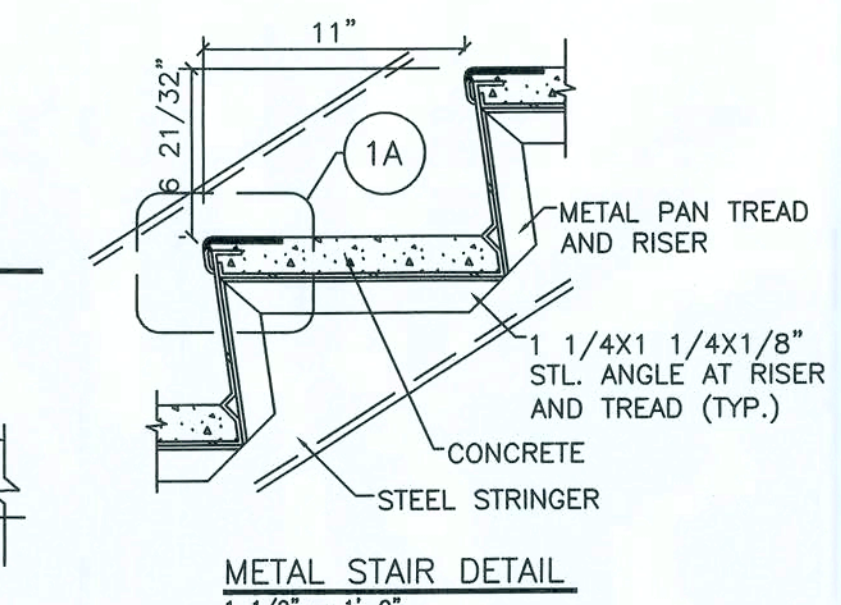
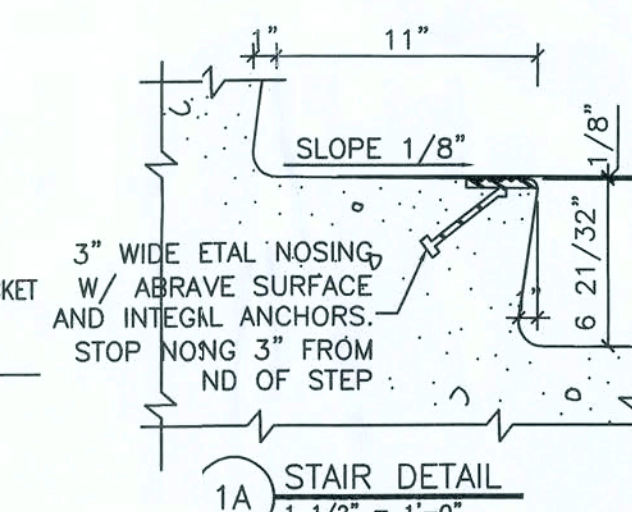
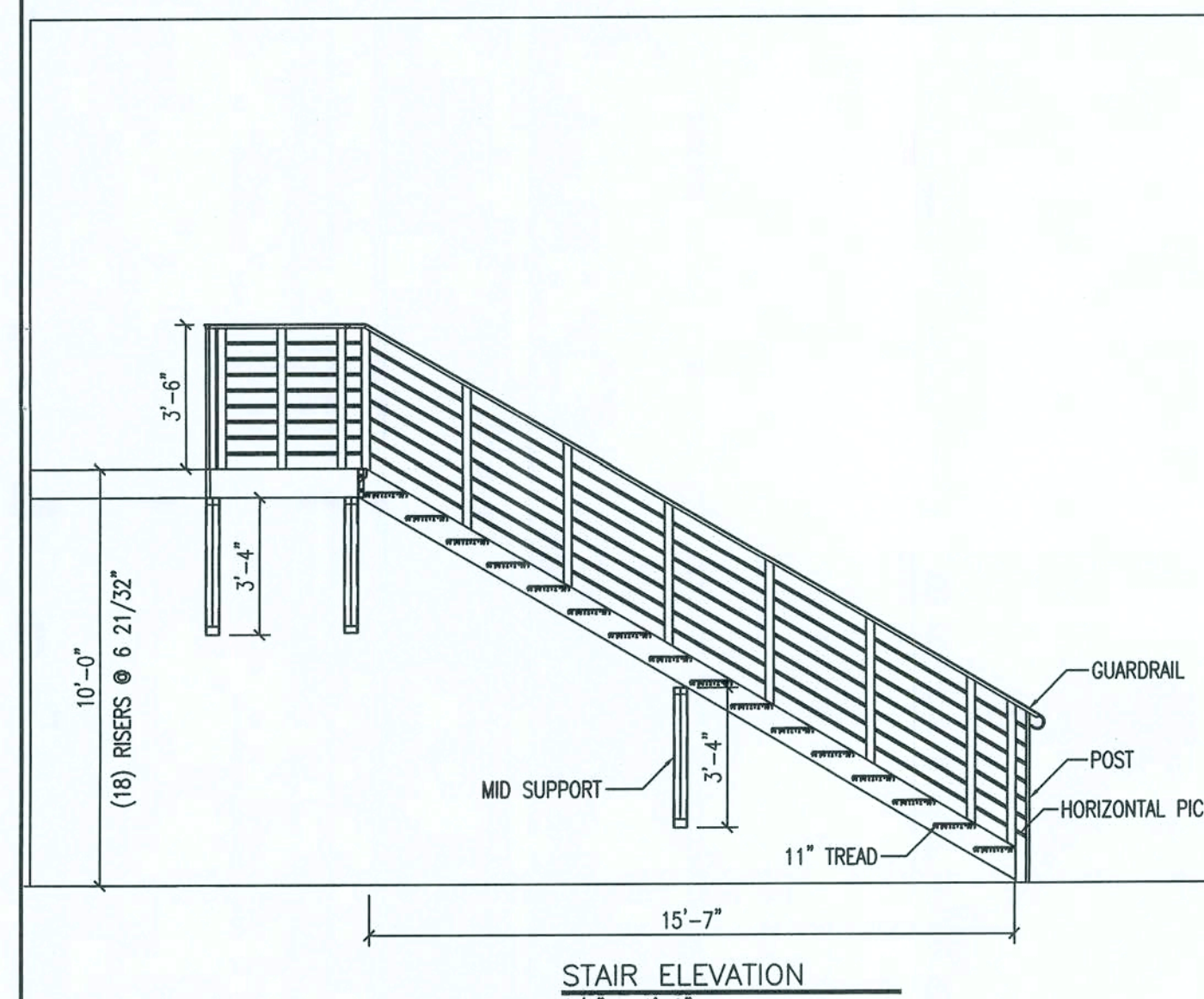
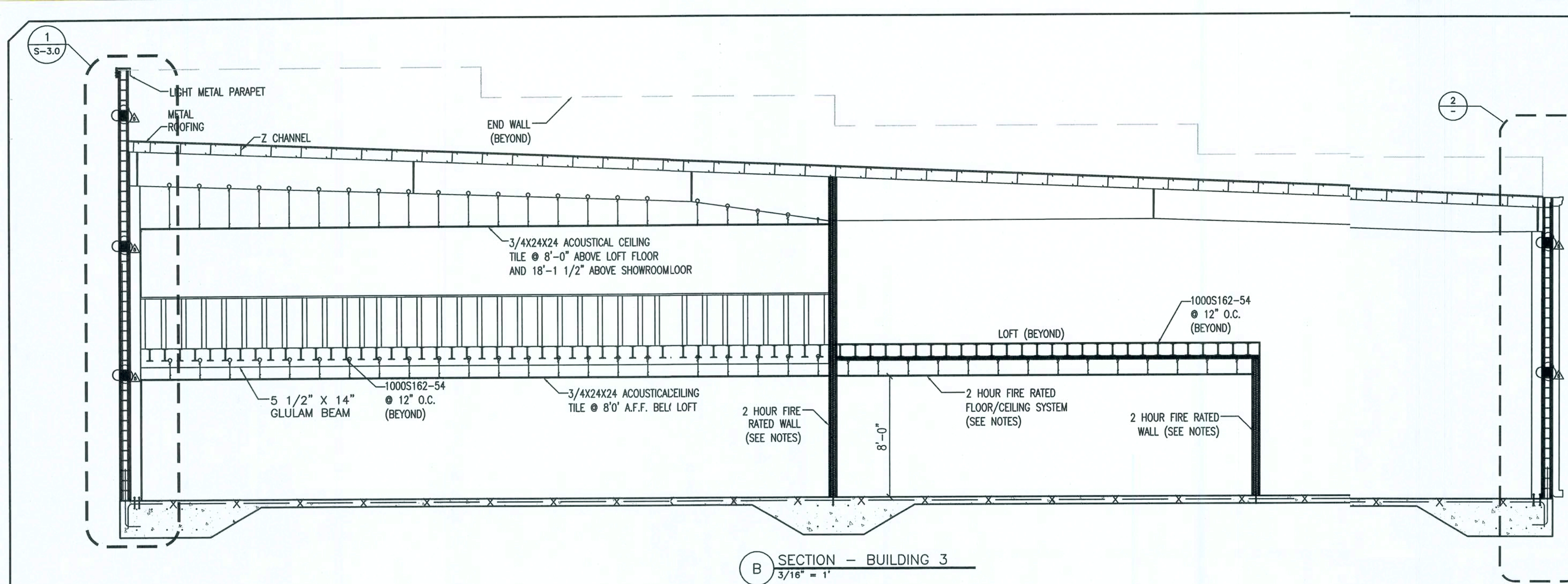
P.O. Box 187 130 West Howard Street Live Oak FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 Gary Gill, PE 51942 Auth. # 9461	
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SHOPS AT THE CROSSROADS NEW STRIP MALL LAKE CITY, FLORIDA	SECTIONS - BUILDING 1 & 2
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PROJECT NUMBER PF06-163-S	DESIGNED BY F. VULETICH
CHECKED BY G.G.	SCALE S-4.0

30-Jan-08	1/32/09
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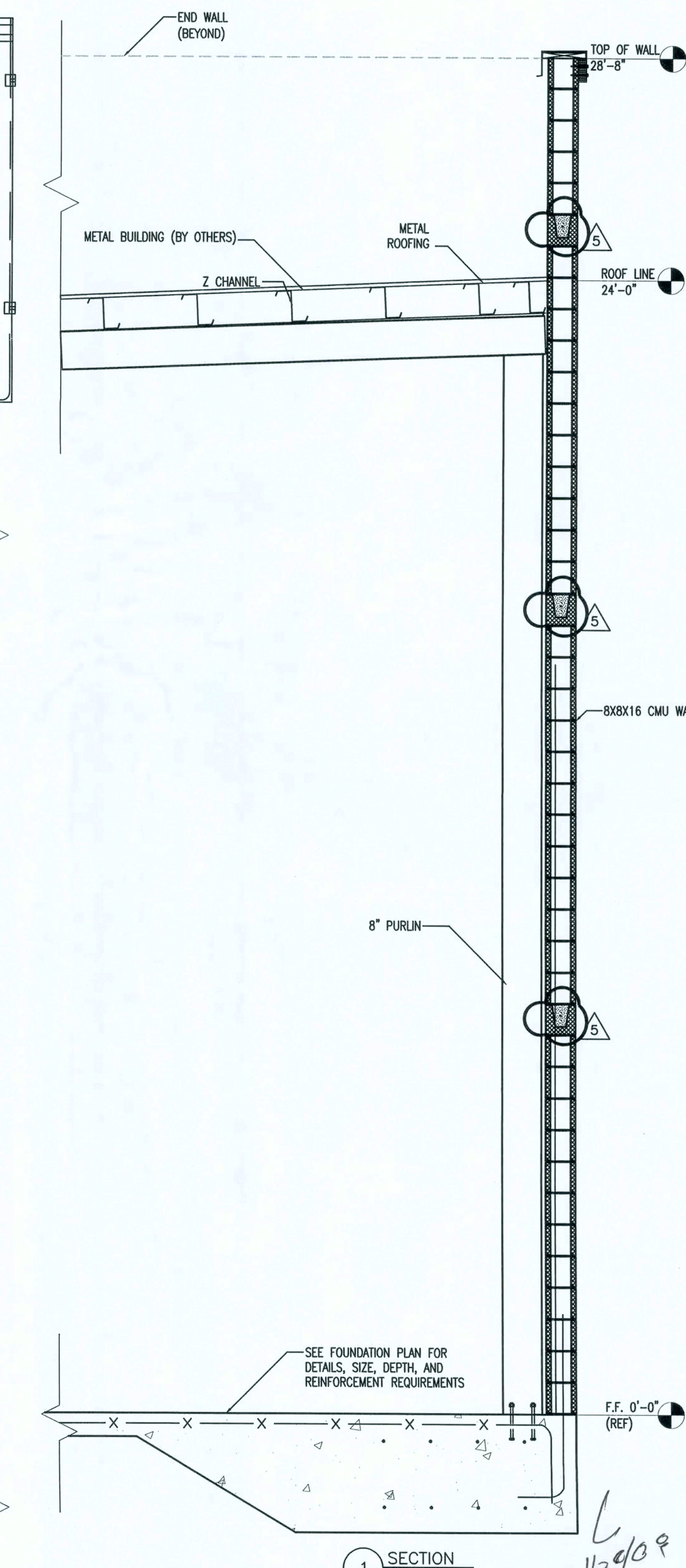
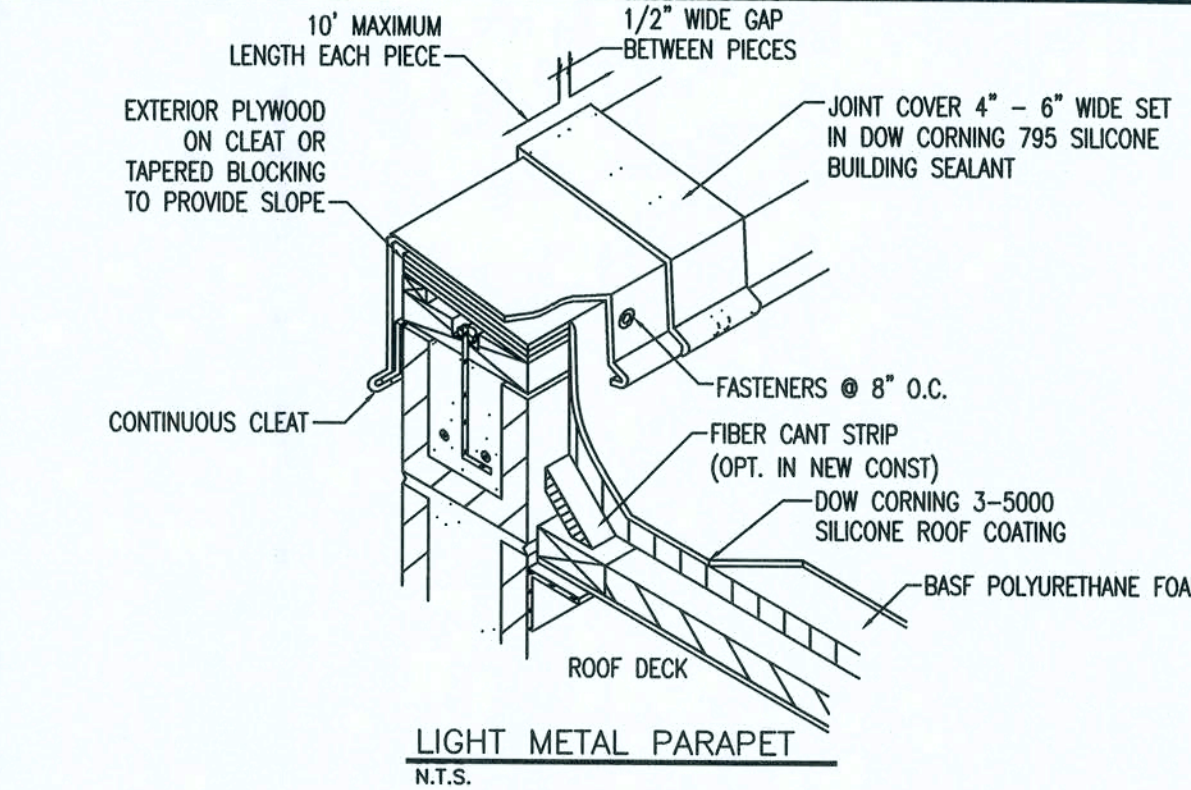
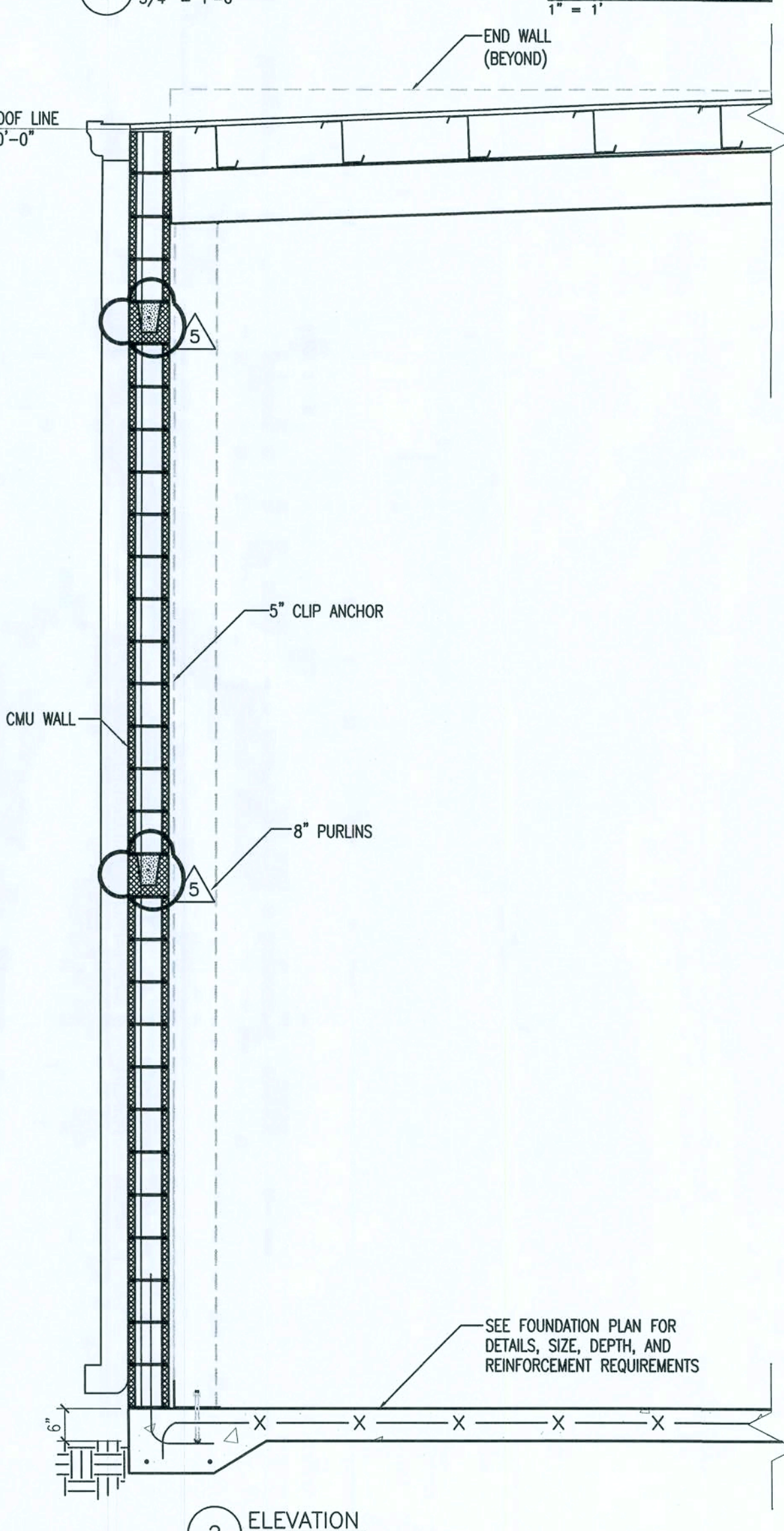
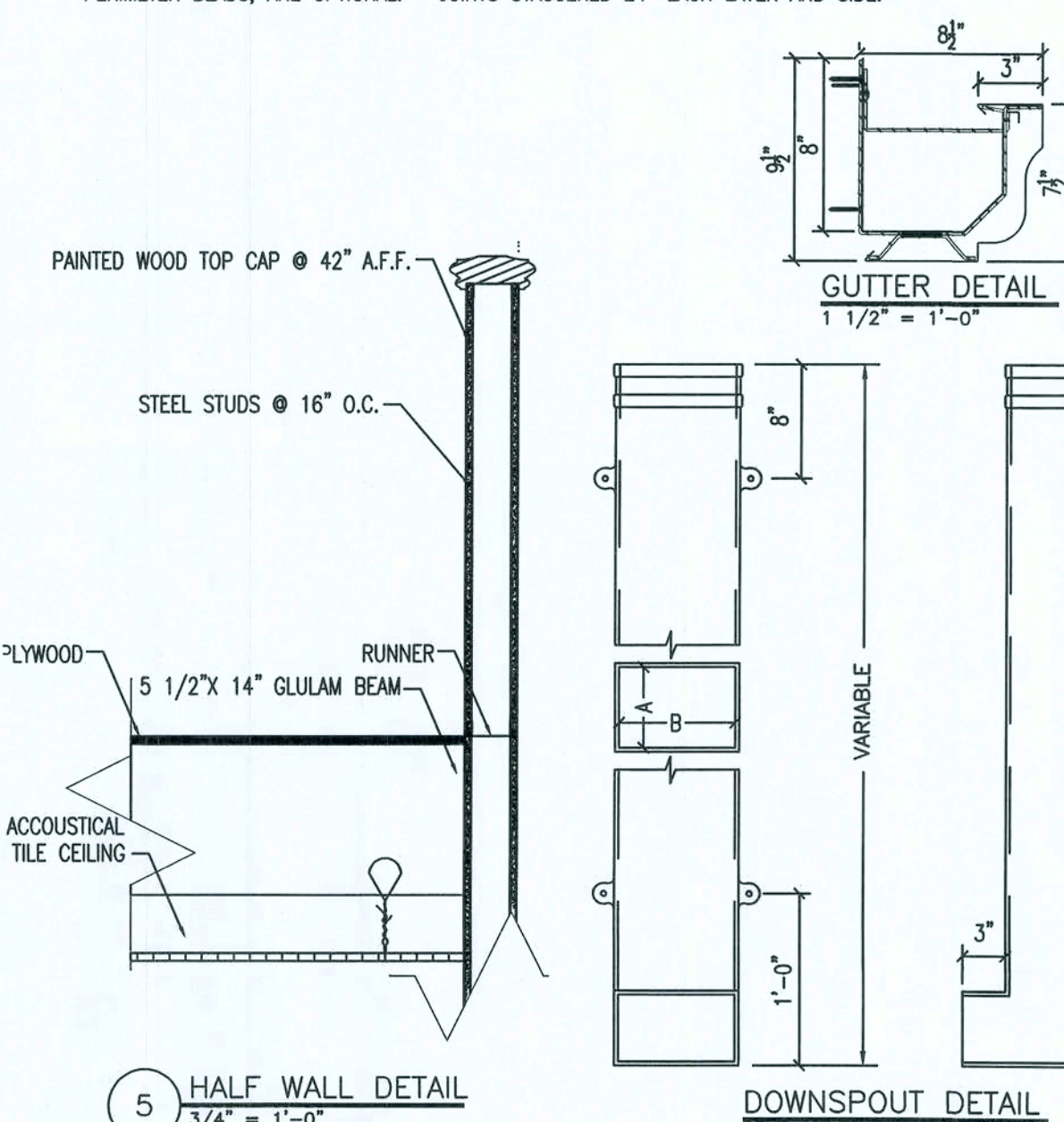
ISSUED FOR CONSTRUCTION



FIRE RATED NOTES

2 HOUR FIRE RATED CEILING UL DESIGN NO. L556
 BASE LAYER: 5/8" TYPE X GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES TO CHANNEL SHAPED, MIN. 8" DEEP 18 GAUGE GALVANIZED STEEL JOISTS 24" O.C. W/ 1 1/8" TYPE S-12 DRYWALL SCREWS 12" O.C.
 SECOND LAYER: 5/8" TYPE X GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES TO JOISTS WITH 1 5/8" TYPE S-12 DRYWALL SCREWS 12" O.C.
 THIRD LAYER: JOINTS OFFSET 12" FROM SECOND LAYER JOINTS. HAT SHAPED RIGID FURRING CHANNELS 24" O.C. APPLIED AT RIGHT ANGLES TO JOISTS OVER THIRD LAYER WITH (2) 2 3/8" LONG TYPE S-12 DRYWALL SCREWS AT EACH JOIST.
 FACE LAYER: 5/8" TYPE X GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES TO FURRING CHANNELS WITH 1 1/8" TYPE S DRYWALL SCREWS 12" O.C.
 JOISTS SUPPORTING 3/4" T & G EDGE PLYWOOD FLOOR APPLIED AT RIGHT ANGLES TO JOISTS WITH #10 X1 5/8" SCREWS 12" O.C.

2 HOUR FIRE RATED WALL UL DESIGN NO. ULC 75T208
 BASE LAYER: 1/2" PROPRIETARY TYPE X G.W.B. APPLIED AT RIGHT ANGLES TO EACH SIDE OF 2 1/2" STEEL STUDS @ 24" O.C. WITH 1" TYPE S DRYWALL SCREWS 12" O.C.
 FACE LAYER: 5/8" PROPRIETARY TYPE X G.W.B. APPLIED PARALLEL TO EACH SIDE WITH VERTICAL JOINTS MIDWAY BETWEEN STUDS
 FACE LAYER ATTACHED TO BASE LAYER ONLY WITH 1 1/2" TYPE G DRYWALL SCREWS 12" O.C. AT VERTICAL JOINTS AND CENTERLINE OF FACE LAYER GYPSUM BOARD, 3/4" TO 1/2" DIAMETER ADHESIVE BEADS AROUND PERIMETER OF FACE BOARD, 2" FROM EACH EDGE AND END, AND IN THE FORM OF AN X JOINING THE CORNERS OF THE PERIMETER BEADS, ARE OPTIONAL. JOINTS STAGGERED 24" EACH LAYER AND SIDE.



REV. #	DATE	REVISION NOTES
A	09-11-07	ISSUED FOR REVIEW
B	11-26-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR
2	01-23-08	GEN. REV. PER CONTRACTOR

PROJECT NUMBER: **PF06-163-S**
 DRAWN BY: **F. VULETICH**
 CHECKED BY: **G.G.**

S-4.1

13 OF 23

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

Box 187
 West Howard Street
 Live Oak, FL 32064
 Phone: (386) 362-3678
 Fax: (386) 362-6135
 Auth. # 9461

ISSUED FOR CONSTRUCTION

SECTIONS - BUILDING 3

DESIGN CRITERIA

DESIGN PER 2004 FLORIDA BUILDING CODE, UNLESS OTHERWISE NOTED.

LIVE LOADS:

ROOFS AND CANOPIES:

0 TO 200 SF	16PSF
201 TO 600 SF	14PSF
OVER 600 SF	12PSF
STAIRS	100PSF
FLOORS	50PSF
CORRIDORS	80PSF
LOBBIES	80PSF
BALCONIES	60PSF
PARTITION LOAD (DEADLOAD)	20PSF

WIND LOADS:

BASIC WIND SPEED: (ACE 7)	110 MPH
MEAN ROOF HEIGHT	21 FT
WIND IMPORTANCE FACTOR (CATEGORY II)	1.0

EXPOSURE	B
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	±0.18
DIRECTIONALITY FACTOR (Kd)	0.85
SHAPE FACTORS	PER CODE

THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.

DESIGN WIND PRESURES FOR COMPONENTS & CLADDING:

WALL & WALL OPENINGS		
TRIBUTARY AREA	INTERIOR ZONE	END ZONE
10 sf	(>6.3 ft FROM BLDG. CORNER)	(<6.3 ft FROM BLDG. CORNER)
25 sf	23.61 / 21.7	-29.2 / 21.77
	22.31 / 20.5	-26.55 / 20.5
(LINEARLY INTERPOLATE BETWEEN STATED VALUES)		

ROOF & ROOF OPENINGS		
TRIBUTARY AREA	INTERIOR ZONE	END ZONE
10 sf	(>6.3 ft FROM BLDG. CORNER)	(>6.3 ft FROM BLDG. CORNER)
25 sf	-1.77 / 19.92	-25.46 / 19.92
	-0.30 / 19.19	-23.99 / 19.19
(LINEARLY INTERPOLATE BETWEEN STATED VALUES)		

CONCRETE (DESIGN PER CURRENT EDITION ACI 318)	
SLAB ON GRADE	F'C= 3000 PSI
FOOTINGS	F'C= 3000 PSI
ALL OTHER CONCRETE	F'C= 3000 PSI
ALL REINFORCING STEEL ASTM A15 GRADE 60	
ALL WELDED WIRE FABRIC ASTM A185	
CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)	
COMPRESSIVE STRENGTH	F'M= 1500 PSI
STRUCTURAL STEEL (DESIGN PER CURRENT EDITION AISC), UNLESS OTHERWISE NOTED	
MATERIALS SHALL BE AS FOLLOWS:	
W-SHAPES	ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES	ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES	ASTM A500 GRADE B, Fy= 46 KSI
HSS ROUND SHAPES	ASTM A500 GRADE B, Fy= 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy= 35 KSI
WELDING ELECTRODES	AWS A5.1 OR A5.5 SERIES E70
HIGH-STRENGTH BOLT	7/8" ASTM A325
ANCHOR RODS	GRADE 36 ASTM F1554
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PAINT & PROTECTION	SSPC PAINT 25
SOIL BEARING (DESIGN MAXIMUM)	1000PSF

GENERAL NOTES

CONCRETE UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	3"
PILE CAPS	SEE TYPICAL DETAIL
GRADE BEAMS	3"
COLUMNS AND PEDESTALS OVER VERTICAL REINFORCING	2"
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATHER)	3/4"
CANOPY SLABS	1 1/2"
BEAMS (OVER MAIN REINFORCING)	1 1/2"
SLABS ON GRADE	2" FROM TOP

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACEMENT OF CONCRETE.

MIN. W/F FOR SLAB ON GRADE SHALL BE 6X6-W14X14.

UNLESS OTHERWISE NOTED, SPICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:

WELDED WIRE FABRIC (MIN. YIELD STRENGTH OF 65,000 PSI).....WIRE SPACING PLUS 6"

REINFORCING BARS.....40 BAR DIAMETERS

ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.

A VAPOR RETARDER CONSISTING OF 6 MIL MINIMUM POLYETHYLENE WITH JOINTS LAPPED 6 INCHES AND SEALED WITH 2" APPROVED TAPE OR MASTIC, OR OTHER APPROVED MATERIALS HAVING A MAXIMUM PERM RATING OF 0.5.

SOIL UNDER FOOTINGS, FOUNDATIONS AND CONCRETE SLABS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATTERS REMOVED PRIOR TO THEIR CONSTRUCTION.

CONCRETE SLAB SHALL HAVE A MINIMUM ALLOWABLE SLOPE TO ALLOW FOR WATER DRAINAGE FROM SHOWERS.

FOUNDATIONS

IF FOOTING EVALUATIONS SHOW INDICATION OF A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.

STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF (1) VERTICAL TO TWO (2) HORIZONTAL.

PROVIDE A MINIMUM OF TWO #4BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND OTHER OPENINGS 4'-4" LONGER THAN THE OPENING.

NOTES:

- 1) ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UNLESS OTHERWISE NOTED. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUT NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.
- 2) TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.

SUPPLEMENTARY NOTES

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 1/2" MINIMUM FOR 3/4" BOLTS IN CONCRETE, 5 1/2" IN GROUTED MASONRY, HILTI KWIK BOLT II OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM BY HILTI, (HILTI RESO), IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL. UNLESS OTHERWISE NOTED, EMBEDMENT SHALL BE 12" BAR DIAMETERS MINIMUM. HOLES SHALL BE 1/2" LARGER THAN REBAR SIZE, AND 3/8" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

SPECIFICATIONS

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301. "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (LATEST EDITION), EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325, OR A490 BOLTS", AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AWS D1.1 "STRUCTURAL WELDING CODE", EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A GEOTECHNICAL TESTING AND INSPECTION FIRM SHALL BE EMPLOYED TO PERFORM A SOIL SURVEY FOR SATISFACTORY SOIL MATERIALS, SAMPLING AND TESTING FOR QUALITY CONTROL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL TESTING FIRM.

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

A PERMANENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL, FBC 1042.6 CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4

TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 3/8" THICK ADHERED DIRECTLY TO FOUNDATION WALL. FBC 1816.1.1

INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1

SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT IT WILL ILLUMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

CONCRETE OVERPOUR AND MORTAR AROUND THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5

SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1916.1.6

ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.6

A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7

AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL.

FBC 503.1.3

NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 3203.1.4

DOOR SCHEDULE					NOTES
MARK	DOOR SIZE			MATL	
	WD	HGT	THK		
101	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	----
102	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
103	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	----
104	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
105	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	----
106	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
107	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
108	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
109	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
110	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
111	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
112	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
113	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
114	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
115	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
116	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
117	6'-0"	6'-8"	1 1/2"	WOOD	NON-OPENING DECORATIVE
118	6'-0"	6'-8"	1 1/2"	WOOD	----
119	3'-0"	6'-8"	1 1/2"	WOOD	----
120	6'-0"	6'-8"	1 1/2"	WOOD	----
201	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
202	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
203	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	----
204	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
205	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
206	6'-0"	6'-10"	1 1/2"	HOLLOW METAL	----
207	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
208	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
209	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
210	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
211	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
212	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
301	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	NON-OPENING DECORATIVE
302	6'-0"	7'-0"	1 1/2"	HOLLOW METAL	----
303	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
304	10'-0"	10'-0"	1 1/2"	METAL	SECTIONAL
305	10'-0"	10'-0"	1 1/2"	METAL	SECTIONAL
306	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
307	3'-0"	6'-8"	1 1/2"	HOLLOW METAL	----
308	3'-0"	6'-8"	1 1/2"	WOOD	----
309	3'-0"	6'-8"	1 1/2"	WOOD	----
310	3'-0"	6'-8"	1 1/2"	WOOD	----
311	3'-0"	6'-8"	1 1/2"	WOOD	----
312	3'-0"	6'-8"	1 1/2"	WOOD	----
313	6'-0"	6'-8"	1 1/2"	WOOD	----
314	3'-0"	6'-8"	1 1/2"	WOOD	----
315	3'-0"	6'-8"	1 1/2"	WOOD	----
316	3'-0"	6'-8"	1 1/2"	WOOD	----
317	3'-0"	6'-8"	1 1/2"	WOOD	45 MINUTE FIRE RATED
318	3'-0"	6'-8"	1 1/2"	WOOD	45 MINUTE FIRE RATED
319	3'-0"	6'-8"	1 1/2"	WOOD	45 MINUTE FIRE RATED
320	3'-0"	6'-8"	1 1/2"	WOOD	45 MINUTE FIRE RATED
321	3'-0"	6'-8"	1 1/2"	WOOD	45 MINUTE FIRE RATED
322	6'-0"	6'-8"	1 1/2"	WOOD	----
323	6'-0"	6'-8"	1 1/2"	WOOD	----
324	3'-0"	6'-8"	1 1/2"	WOOD	----
325	3'-0"	6'-8"	1 1/2"	WOOD	----
326	6'-0"	6'-8"	1 1/2"	WOOD	BI-FOLD
327	6'-0"	6'-8"	1 1/2"	WOOD	BI-FOLD
328	6'-0"	6'-8"	1 1/2"	HOLLOW METAL	NON-OPENING DECORATIVE
329	6'-0"	6'-8"	1 1/2"	HOLLOW METAL	NON-OPENING DECORATIVE

WINDOW SCHEDULE					
MARK	SIZE		TYPE	MATERIAL	NOTES
	WIDTH	HEIGHT			
101	2'-10"	6'-0"	PICTURE	CLAD LX	---
102	2'-10"	6'-0"	PICTURE	CLAD LX	---
103	12'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
104	3'-6"	6'-0"	PICTURE	CLAD LX	---
105	3'-6"	6'-0"	PICTURE	CLAD LX	---
106	12'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
107	2'-10"	8'-0"	PICTURE	CLAD LX	---
108	2'-10"	8'-0"	PICTURE	CLAD LX	---
109	12'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
110	14'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
111	14'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
112	6'-0"	6'-0"	PICTURE	CLAD LX	---
113	6'-0"	6'-0"	PICTURE	CLAD LX	---
114	6'-0"	6'-0"	PICTURE	CLAD LX	---
115	6'-0"	6'-0"	PICTURE	CLAD LX	---
116	6'-0"	6'-0"	PICTURE	CLAD LX	---
117	6'-0"	6'-0"	PICTURE	CLAD LX	---
118	2'-6"	4'-0"	PICTURE	CLAD LX	UPPER WINDOW
119	2'-6"	4'-0"	PICTURE	CLAD LX	UPPER WINDOW
201	14'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
202	12'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
203	12'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
204	14'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
205	14'-0"	8'-0"	WINDOW ASSEMBLY	CLAD LX	---
206	6'-0"	6'-0"	PICTURE	CLAD LX	---
207	6'-0"	6'-0"	PICTURE	CLAD LX	---
208	6'-0"	6'-0"	PICTURE	CLAD LX	---
209	6'-0"	6'-0"	PICTURE	CLAD LX	---
210	6'-0"	6'-0"	PICTURE	CLAD LX	---
211	6'-0"	6'-0"	PICTURE	CLAD LX	---
301	5'-0"	6'-0"	PICTURE	CLAD LX	---
302	5'-0"	6'-0"	PICTURE	CLAD LX	---
303	5'-0"	6'-0"	PICTURE	CLAD LX	---
304	5'-0"	6'-0"	PICTURE	CLAD LX	---
305	3'-5"	5'-0"	PICTURE	CLAD LX	---
306	3'-5"	5'-0"	PICTURE	CLAD LX	---
307	6'-6"	6'-0"	PICTURE	CLAD LX	---
308	6'-0"	4'-0"	PICTURE	WOOD	INTERIOR

SHOPS AT THE CROSSROADS

NEW STRIP MALL

LAKE CITY, FLORIDA

GENERAL NOTES

PROJECT NUMBER

PF06-163-S

DRAWN BY

F. VULETICH

CHECKED BY

G.G.

S-5.0

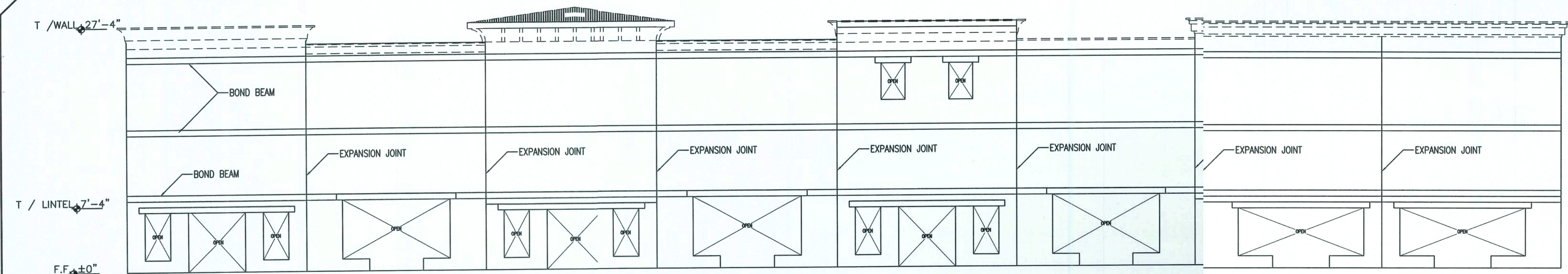
SHEET 14 OF 23



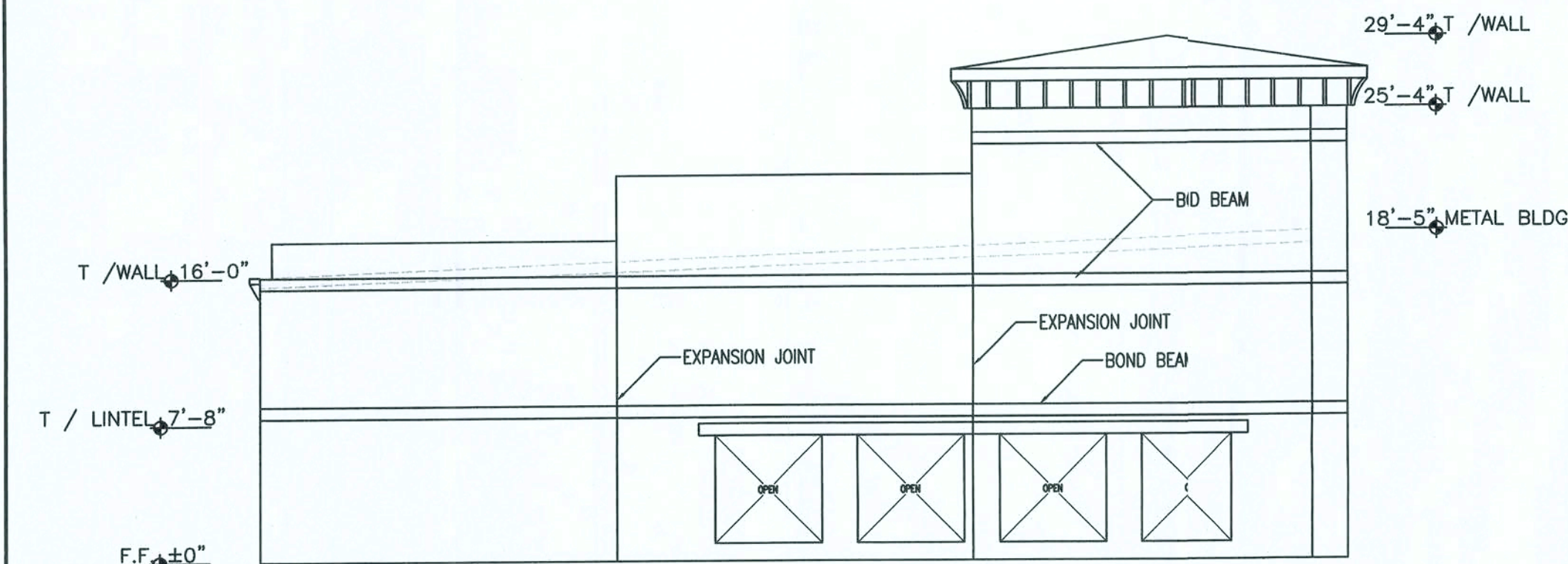
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Live Oak, FL 32064
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Fax: (386) 362-6133
Gill PE, 51942
Auth. # 9461

STRUCTURAL/CIVIL ENGINEER

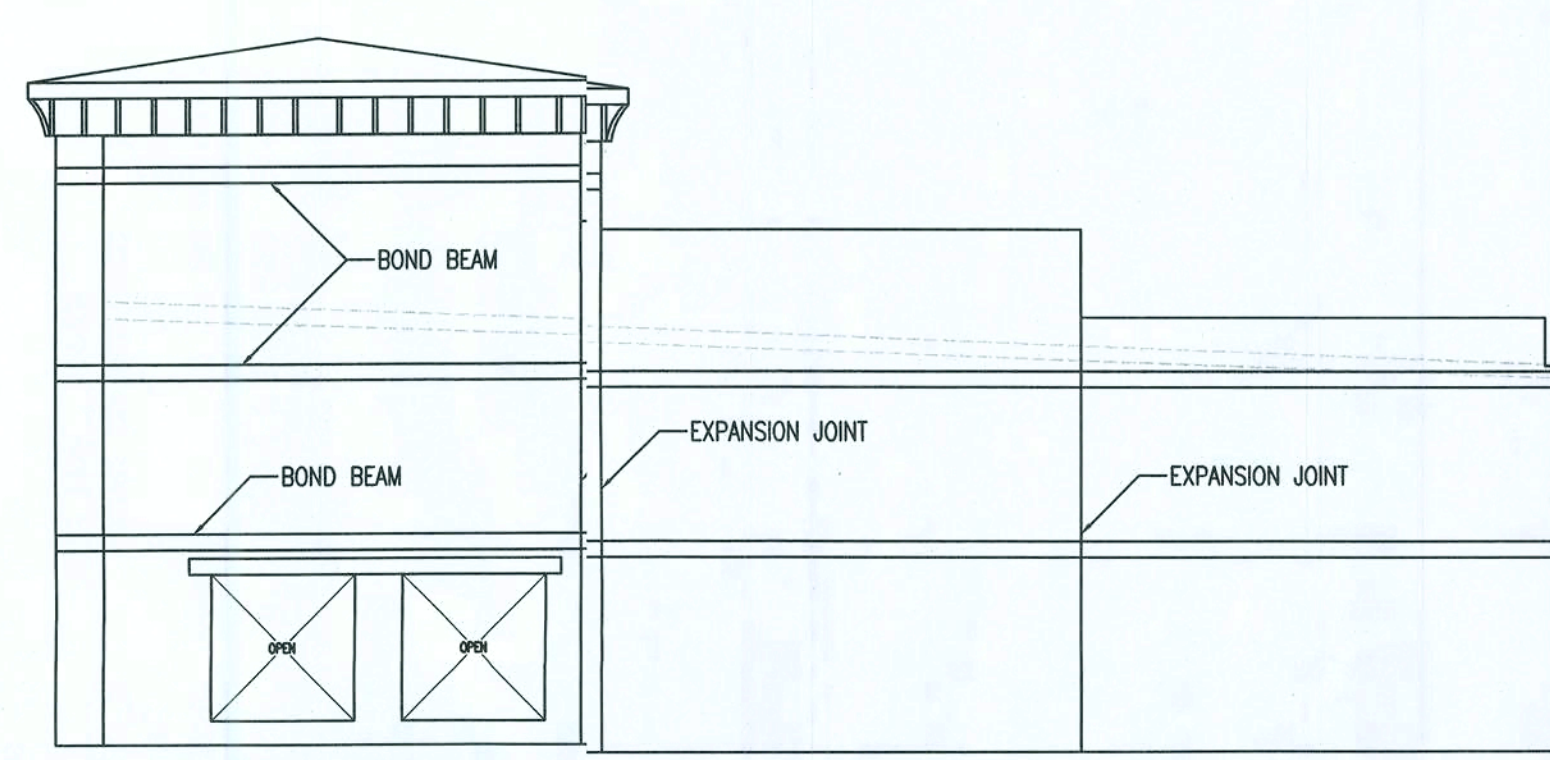
ISSUED FOR CONSTRUCTION



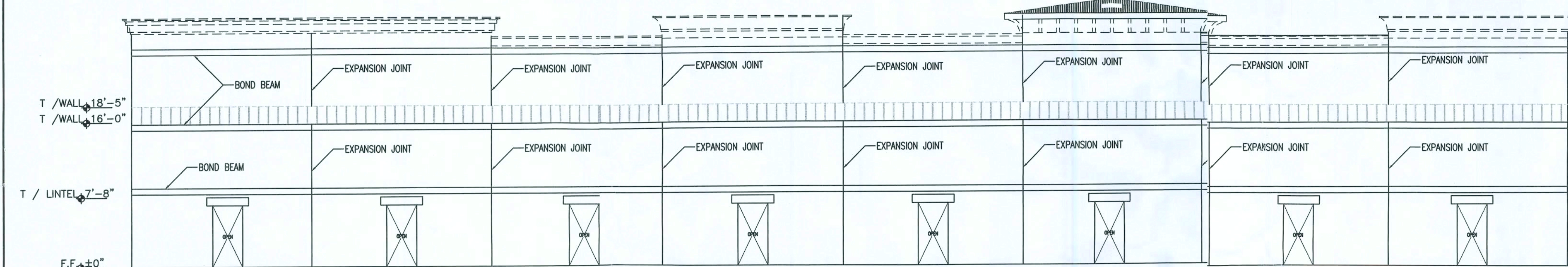
STRUCTURAL ELEVATION - BLDG I - FRONT Δ
1/8" = 1'-0"



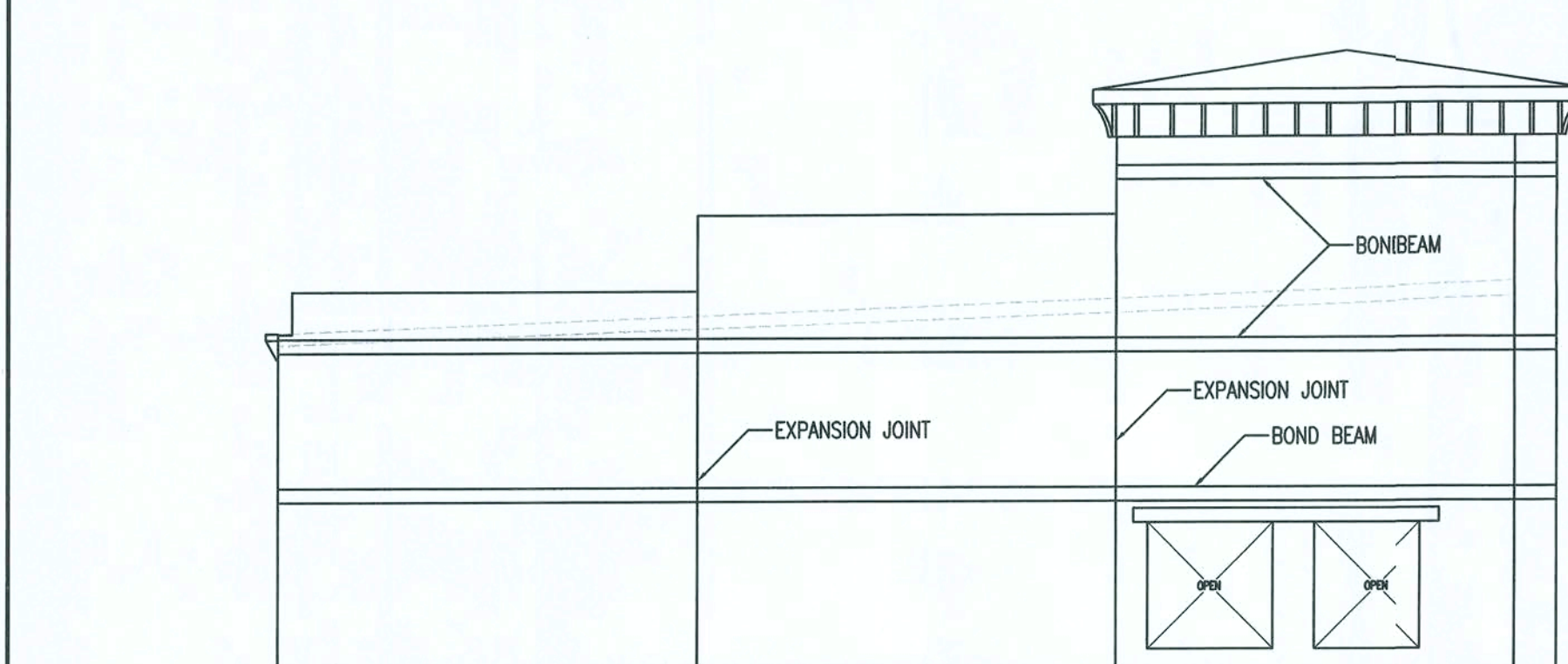
STRUCTURAL ELEVATION - BLDG I - LEFT Δ
1/8" = 1'-0"



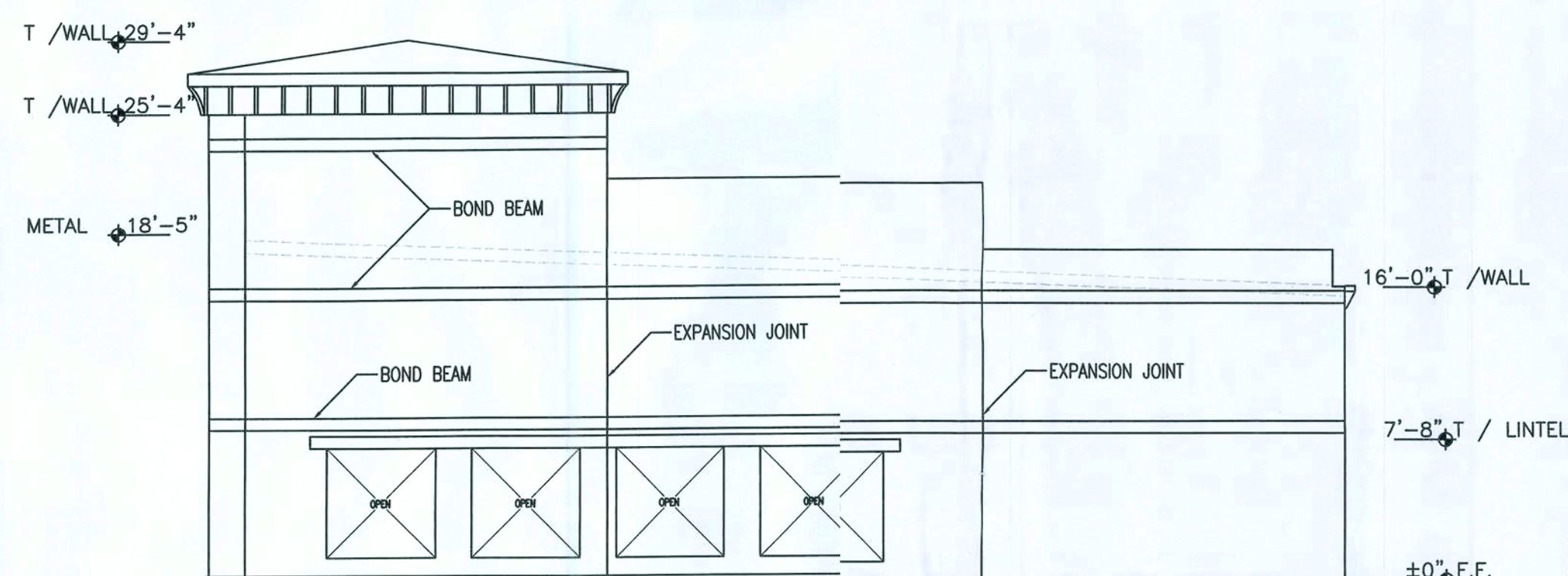
STRUCTURAL ELEVATION - BLDG I - RIGHT Δ
1/8" = 1'-0"



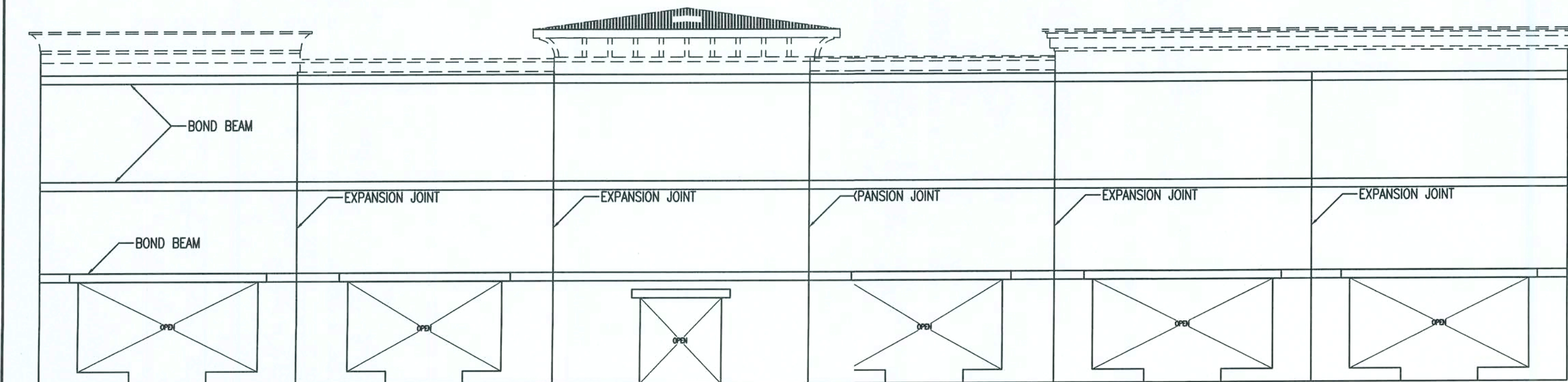
STRUCTURAL ELEVATION - BLDG I - REAR Δ
1/8" = 1'-0"



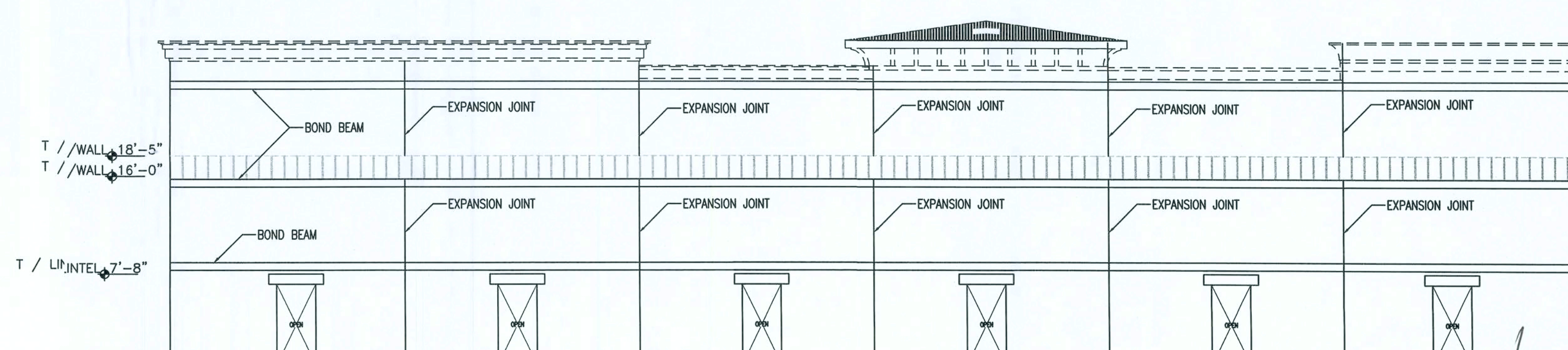
STRUCTURAL ELEVATION - BLDG II - LEFT Δ
1/8" = 1'-0"



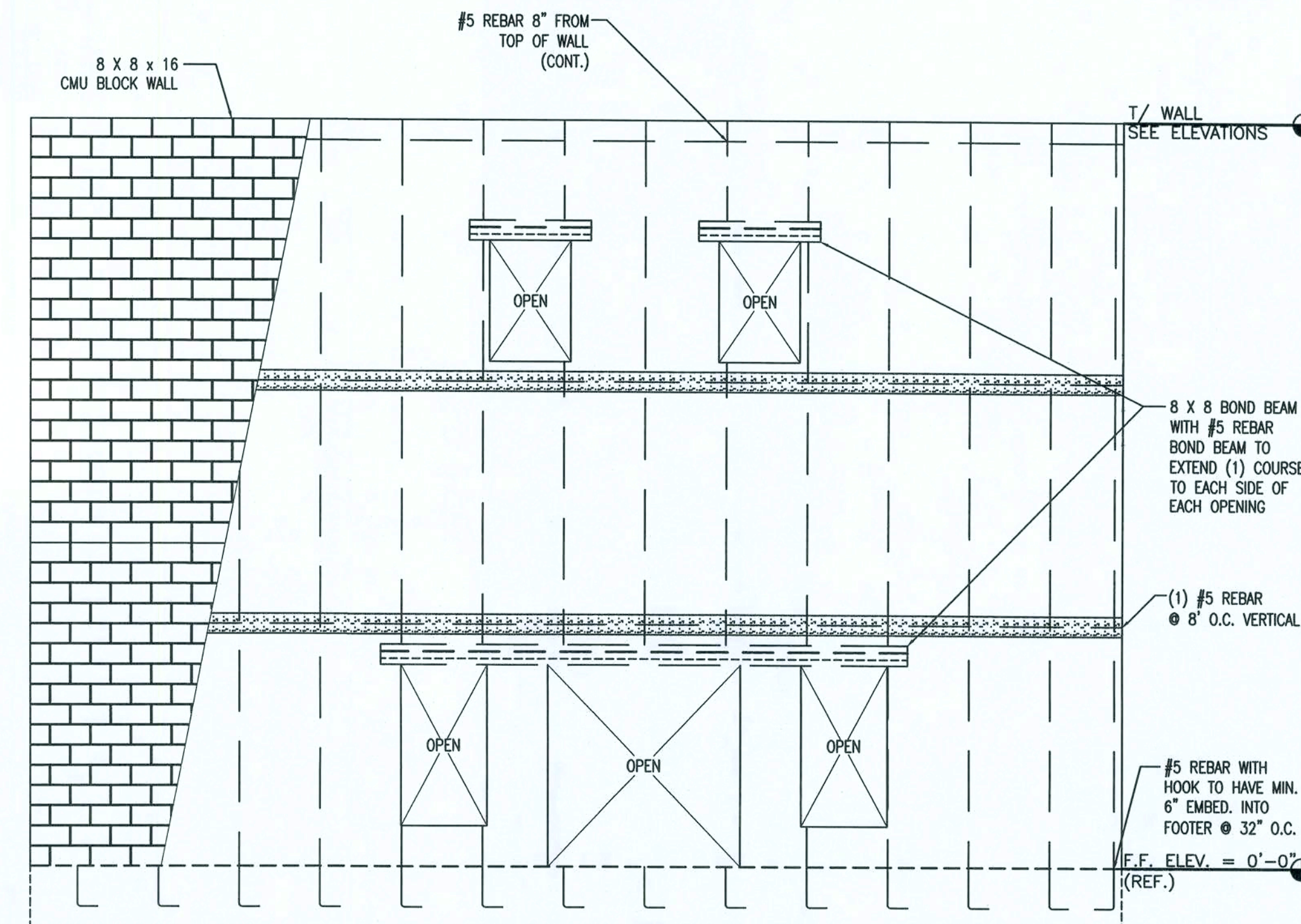
STRUCTURAL ELEVATION - BLDG II - RIGHT Δ
1/8" = 1'-0"



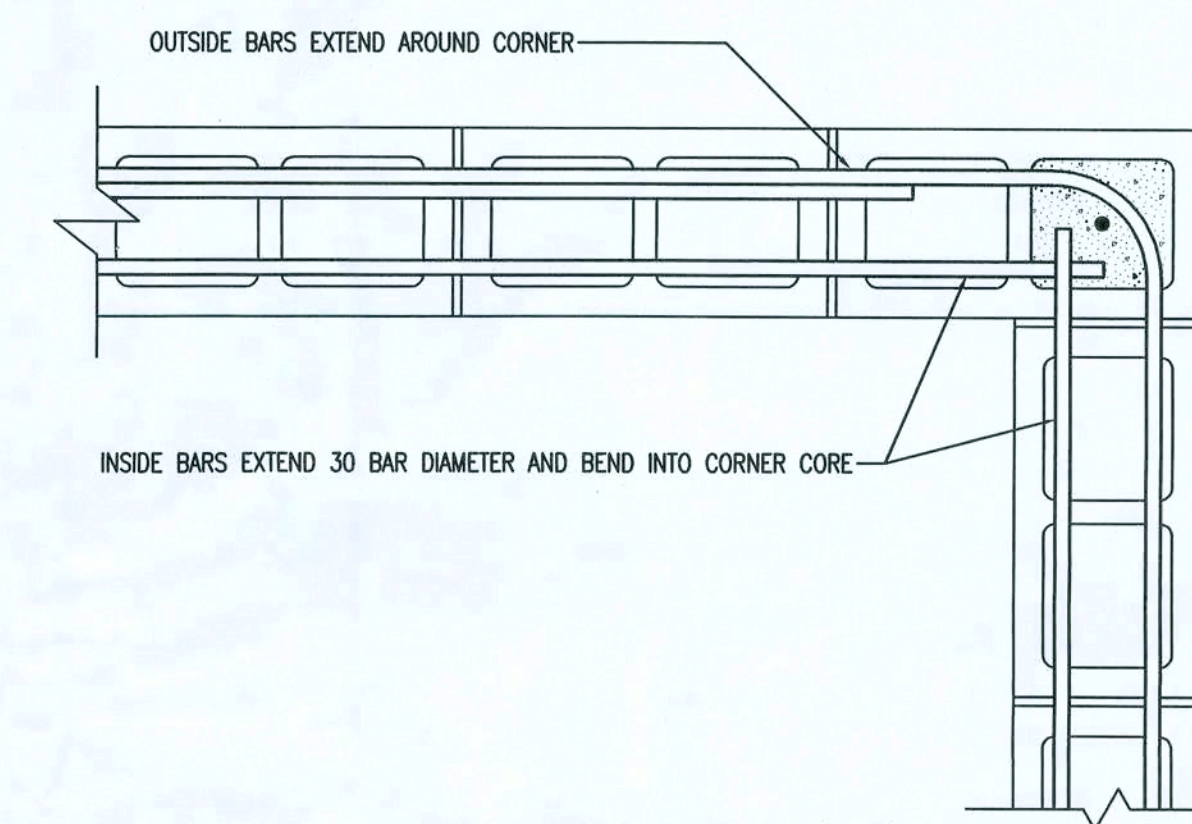
STRUCTURAL ELEVATION - BLDG II - FRONT Δ
1/8" = 1'-0"



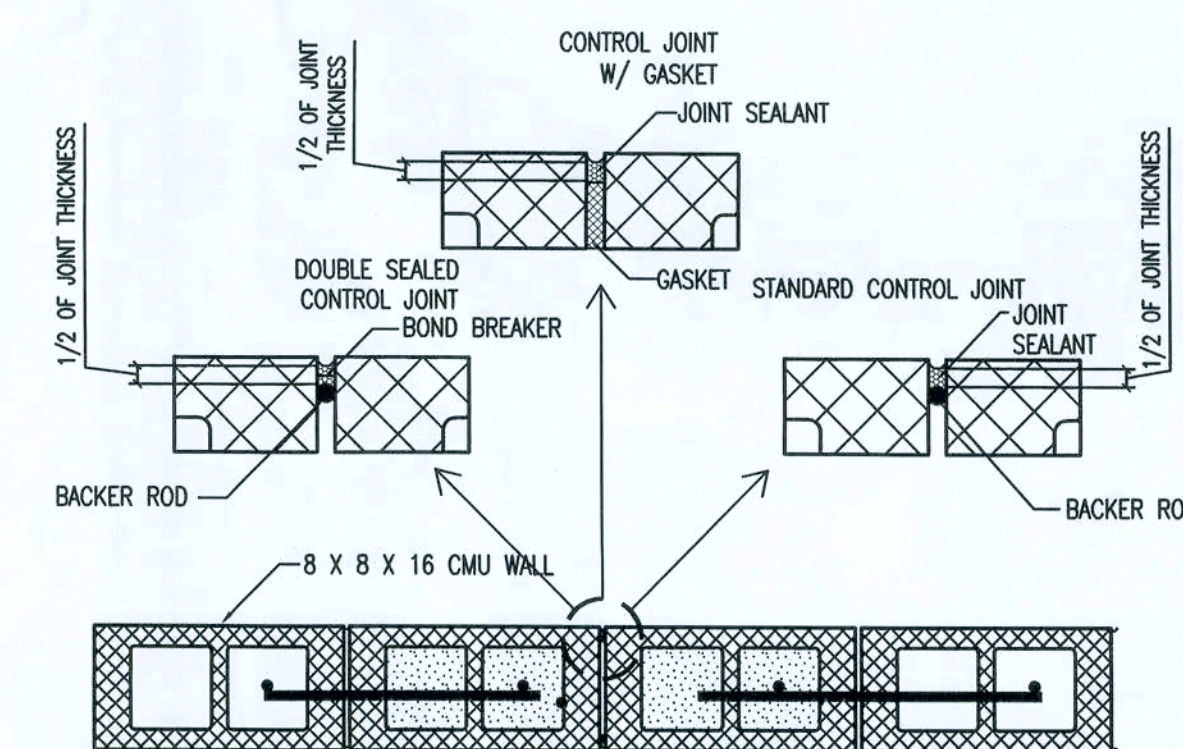
STRUCTURAL ELEVATION - BLDG II - REAR Δ
1/8" = 1'-0"



MASONRY ELEVATION Δ
1/4" = 1'



INTERSECTION DETAIL (TYP)
N.T.S.



EXPANSION JOINT DETAIL
1" = 1'-0"

NOTE:
FOR DETAIL OF EXPANSION JOINT @
METAL BEAMS SEE SHEET S-1.1

REV. #	DATE	REVISION NOTES
1	01-10-08	GEN. REV. PER CONTRACTOR
0	12-03-07	ISSUED FOR CONSTRUCTION
B	11-26-07	ISSUED FOR REVIEW

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SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

STRUCTURAL ELEVATIONS BLDG I & II

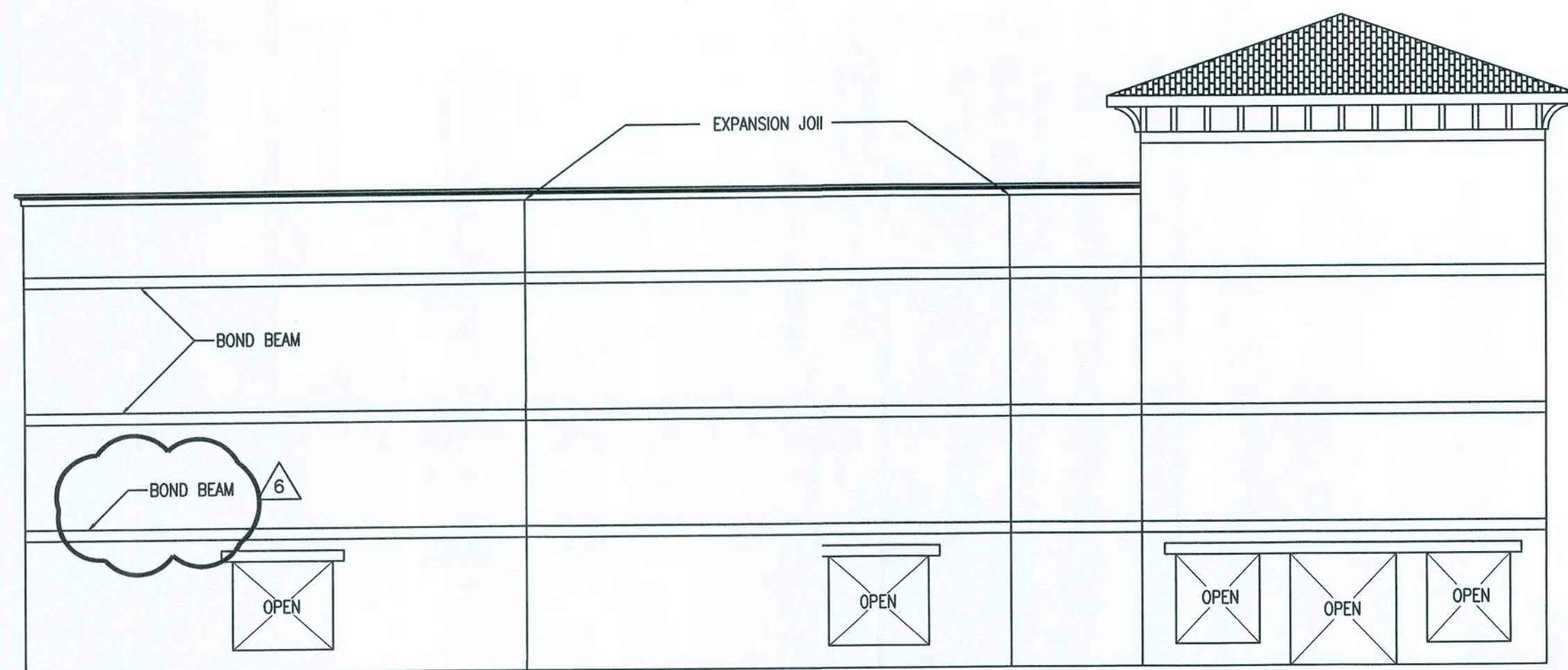
PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

S-6.0

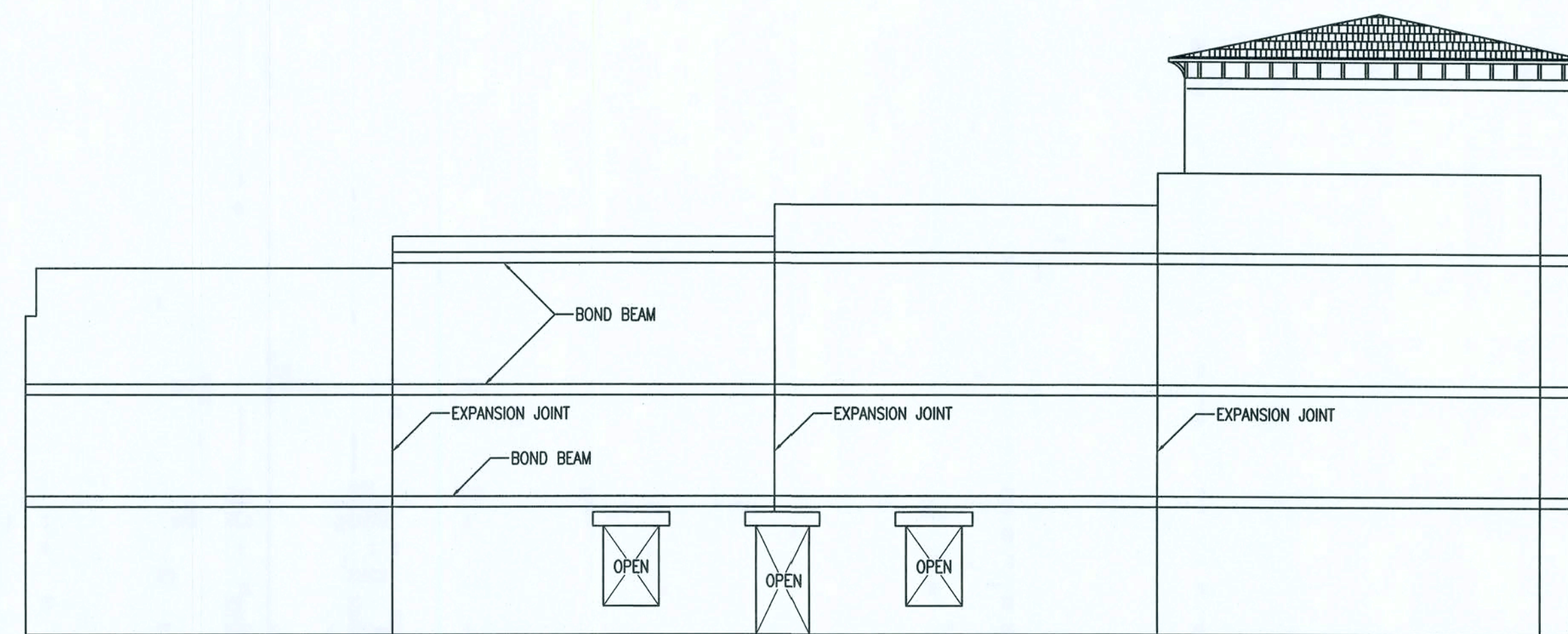
SHEET 15 OF 23

ISSUED FOR CONSTRUCTION

11/30/08

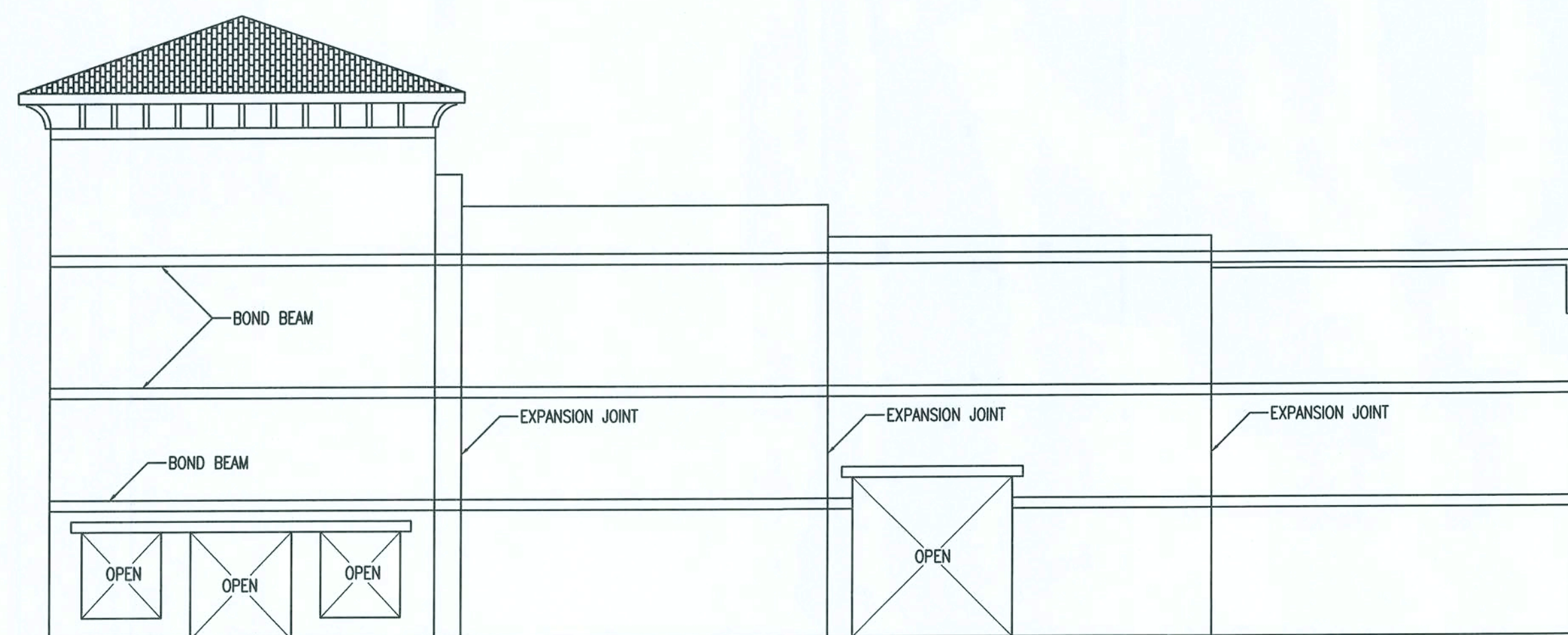


FRONT ELEVATION - BLDG III / 6
1/8" = 1'-0"

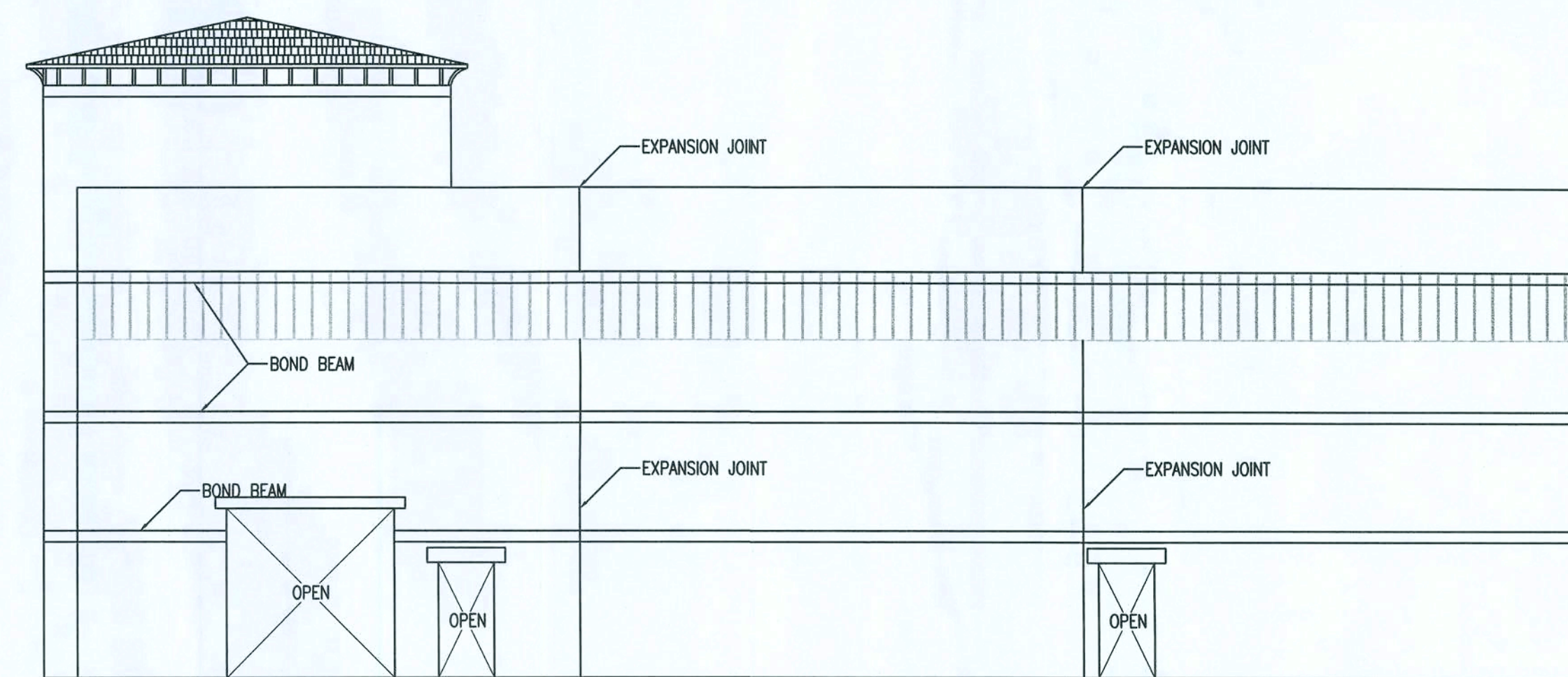


LEFT ELEVATION - BLDG III / 6
1/8" = 1'-0"

NOTE:
SEE PAGE S-L-5.0
FOR DETAILS AND
MASONRY ELEVATION



RIGHT ELEVATION - BLDG III / 6
1/8" = 1'-0"

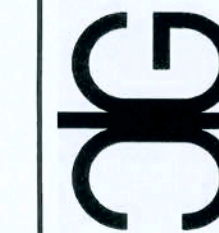


REAR ELEVATION - BLDG III / 6
1/8" = 1'-0"

ISSUED FOR CONSTRUCTION

REV #	DATE	###	REVISION NOTES
B	11-26-07		ISSUED FOR REVIEW
0	12-03-07		ISSUED FOR CONSTRUCTION
1	01-10-08		GEN. REV. PER CONTRACTOR

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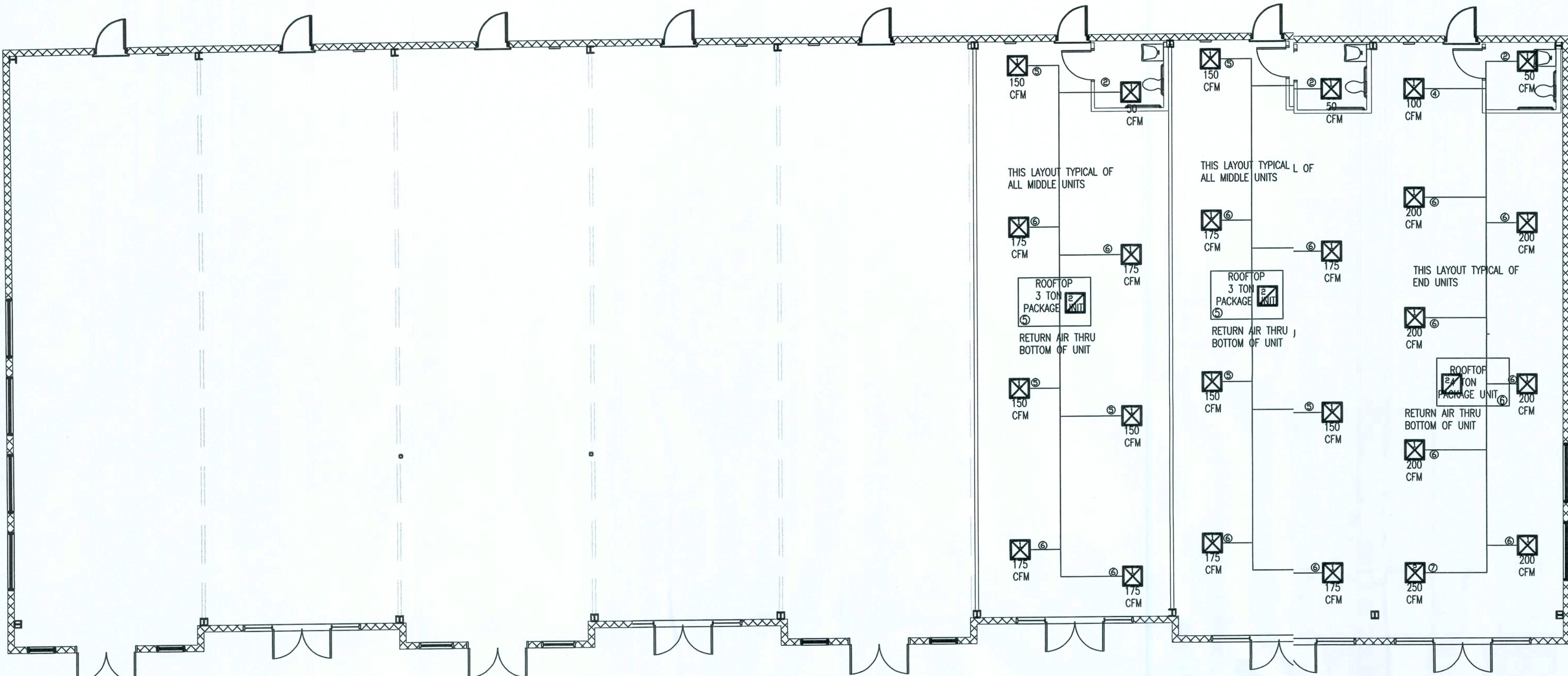


SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

STRUCTURAL ELEVATION - BLDG III

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

S-6.1



MECH PLAN - BLDG I
1/8" = 1'-0"

FANS

SYMBOL	TAG	PENN MODEL	TYPE	DUTY	CFM	ESP	MAX HP	RPM	MAX SONES	DRIVE	WEIGHT, LBS	NOTES	ACCESSORIES
	TEF-G	ZJ1	CEILING MTD	TOILET EXHAUST	75	0.15	1/10	1050	2.0	DIRECT	17	1,2	1,2

- NOTES:
- SOME VALUES ARE VALUES MEASURED 5 FT FROM THE FAN - OPEN ENDED. SOME VALUES MUST NOT EXCEED SCHEDULED AMOUNT BY MORE THAN 10%.
 - FAN TO OPERATE BY SWITCH. SEE ELECTRICAL.
 - ACCESSORIES:
 - BACKDRAFT DAMPER AT FAN DISCHARGE.
 - PROVIDE ALUMINUM WALL CAP CONSISTING OF A SLANTED HOOD THAT IS PRIMER PAINTED (WHITE) READY FOR FINISH COAT. CAP SHALL BE CAPABLE OF EXHAUSTING 75 CFM @ 0.1" S.P.
 - PROVIDE SPEED CONTROLLER AT UNIT.

BASIS OF DESIGN: AS NOTED:
EQUAL BY: COOK, PENN, ACME

PACKAGE UNITS - ELECTRIC HEAT - BUILDINGS I & II													
QUANTITY	TAG	AREA SERVED	YORK MODEL #'S ROOFTOP PACKAGE UNITS	NOMINAL TONS	TOTAL CFM	OA CFM	COIL EAT DB/WB	ESP	MAX FAN HP	TOTAL COOL MBH	SENS. COOL MBH	SEER	HEAT ELEC KW 240V
2	UNIT 5	FUTURE TENANTS-BLDG I	R-410-A AFFINTY BHZ036	3.0	1200	195	80/67	0.5	3/4	44.4	21.0	13	3.1
0	UNIT 5	FUTURE TENANTS-BLDG II										11.00	5
1	UNIT 6	FUTURE TENANTS-BLDG I	R-410A PREDATOR BHZ048	4.0	1600	?	80/67	0.5	3/4	44.4	21.0	13	5
0	UNIT 6	FUTURE TENANTS-BLDG II											2
BASIS OF DESIGN: AS NOTED: EQUAL BY: TRANE: YORK: LENNOX													
NOTES:													
1. COOLING CAPACITIES BASED ON 95° F DB AIR ENTERING OUTDOOR UNIT.													
2. FAN COIL UNIT SHALL HAVE A SINGLE POINT POWER CONNECTION (FAN&HEAT).													
3. COOLING CAPACITIES SCHEDULED ARE MINIMUM VALUES. ALTERNATIVE EQUIPMENT MUST MEET SCHEDULED VALUES.													
4. SEER VALUE IS BASED ON ARI STANDARD 210.													
5. ELECTRIC HEAT SHALL BE MOUNTED IN THE REH/HEAT POSITION.													
ACCESSORIES													
1. PROGRAMMABLE 7 DAY THERMOSTAT, WITH NIGHT SETBACK (55° HEATING, 85° COOLING), AUTO CHANGEOVER FOR HEAT-COOL, 5 DEGREE DEADBAND ADJUSTMENT.													
2. PROVIDE (2) SETS OF STANDARD 1" THICK PLATEAUED THROW-AWAY FILTERS. (1) DURING CONSTRUCTION, (1) AFTER CONSTRUCTION COMPLETION.													
3. PROVIDE FILTER DRYER													
4. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER. - LINES SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY. SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTALS. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED.													
5. LOW AMBIENT OPERATION KIT TO ALLOW OPERATION DOWN TO 42 DEGREES													

GRILLS, REGISTERS, DIFFUSERS AND FLEXIBLE DUCT SIZING CHART				
METAL DIFFUSERS PER SCHEDULE BELOW DO NOT EXCEED MAXIMUM CFM INDICATED. ALL SUPPLY GRILLS TO BE TITUS TDC OR EQUIVALENT. MAX 25 IN.				
DUCT SIZE	NO. NECK SIZE	MAX CFM	DESIGNATOR	WITH #
6" x 6"	6" DIA	225		
12" x 12"	12" DIA	400		
18" x 18"	18" DIA	600		
24" x 24"	24" DIA	800		
30" x 30"	30" DIA	1000		
36" x 36"	36" DIA	1200		
42" x 42"	42" DIA	1400		
48" x 48"	48" DIA	1600		
54" x 54"	54" DIA	1800		
60" x 60"	60" DIA	2000		
66" x 66"	66" DIA	2200		
72" x 72"	72" DIA	2400		
78" x 78"	78" DIA	2600		
84" x 84"	84" DIA	2800		
90" x 90"	90" DIA	3000		
96" x 96"	96" DIA	3200		
102" x 102"	102" DIA	3400		
108" x 108"	108" DIA	3600		
114" x 114"	114" DIA	3800		
120" x 120"	120" DIA	4000		
126" x 126"	126" DIA	4200		
132" x 132"	132" DIA	4400		
138" x 138"	138" DIA	4600		
144" x 144"	144" DIA	4800		
150" x 150"	150" DIA	5000		
156" x 156"	156" DIA	5200		
162" x 162"	162" DIA	5400		
168" x 168"	168" DIA	5600		
174" x 174"	174" DIA	5800		
180" x 180"	180" DIA	6000		
186" x 186"	186" DIA	6200		
192" x 192"	192" DIA	6400		
198" x 198"	198" DIA	6600		
204" x 204"	204" DIA	6800		
210" x 210"	210" DIA	7000		
216" x 216"	216" DIA	7200		
222" x 222"	222" DIA	7400		
228" x 228"	228" DIA	7600		
234" x 234"	234" DIA	7800		
240" x 240"	240" DIA	8000		

GENERAL MECHANICAL NOTES

- THE MECHANICAL/HVAC CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE (HEATING, COOLING, AIR EXCHANGE) SYSTEM. ALL WORK SHALL BE DONE TO CONFORM TO THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS, ASHREA, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION.
- THE MECHANICAL/HVAC CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS, AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE MECHANICAL/HVAC CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER/ARCHITECT WITH AS BUILT DRAWINGS UPON COMPLETION OF THIS PROJECT.
- THE MECHANICAL/HVAC CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWING FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED BY A WORKMANLIKE MANNER BY A SKILLED MECHANICAL/HVAC WORKMAN.
- ALL AIR CONDITIONING DUCT SHALL BE OF 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON THE VAPOR BARRIER. ALL FLEX TO BE R-8 WITH NO FLEX RUN MORE THAN 8'.
- ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. THE MECHANICAL/HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDENSATE DRAIN LINES TO A LOCATION TO BE DETERMINED BY THE OWNER OR CONSTRUCTION SUPERINTENDENT.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS, AND GRILLS) SHALL BE ALL WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY OWNER OR ENGINEER/ARCHITECT. DEVICES SHALL BE TITUS, METALAIR, AND AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
- THERMOSTAT SHALL BE ELECTRONIC 7-DAY PROGRAMMABLE WITH COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES.
- REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS. USE 95/5 SOLDER. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER RECOMMENDATIONS.
- ARMOR FLEX 3/4" INSULATION SHALL BE USED FOR SUCTION AND CONDENSATE DRAIN LINES. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
- ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE 45 DEGREES BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO ACCEPTANCE BY OWNER.
- PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING.
- PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENING, CEILING FANS, DIFFUSERS OR GRILLS RATED FOR USE IN THE CEILING ASSEMBLY.
- HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICE, DAMPERS, AHU'S AND FANS. THE T&B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS AND LEAVING AND ENTERING AIR TEMPERATURE FROM THE SUPPLY GRILLS AND EVAPORATORS.
- THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER/ARCHITECT BY INSTALLATION.
- ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 50/50.
- MECHANICAL/HVAC PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK PARTITION, AIR TRANSFER DUCTS MUST BE INSTALLED.
- THE MECHANICAL/HVAC CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL FIELD CONDITIONS. OWNER, CONSTRUCTION SUPERINTENDENT, ENGINEER/ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- THE MECHANICAL/HVAC CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 120 MPH WIND WITH A GUST FACTOR OF 30% (156MPH). MECHANICAL/HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
- PROVIDE ALL NECESSARY CONTACTS, RELAYS, ETC., FOR A COMPLETE OPERATING HEAT, A/C, AIR EXCHANGE SYSTEM. THE MECHANICAL/HVAC CONTRACTOR SHALL PROVIDE ALL BATHROOM AIR EXCHANGE/VENTING SYSTEMS.

ISSUED FOR CONSTRUCTION

REVISION NOTES		REVISION NOTES	
REV #	DATE	REV #	DATE
B	11-28-07	B	11-28-07
0	12-03-07	0	12-03-07
1	01-10-08	1	01-10-08

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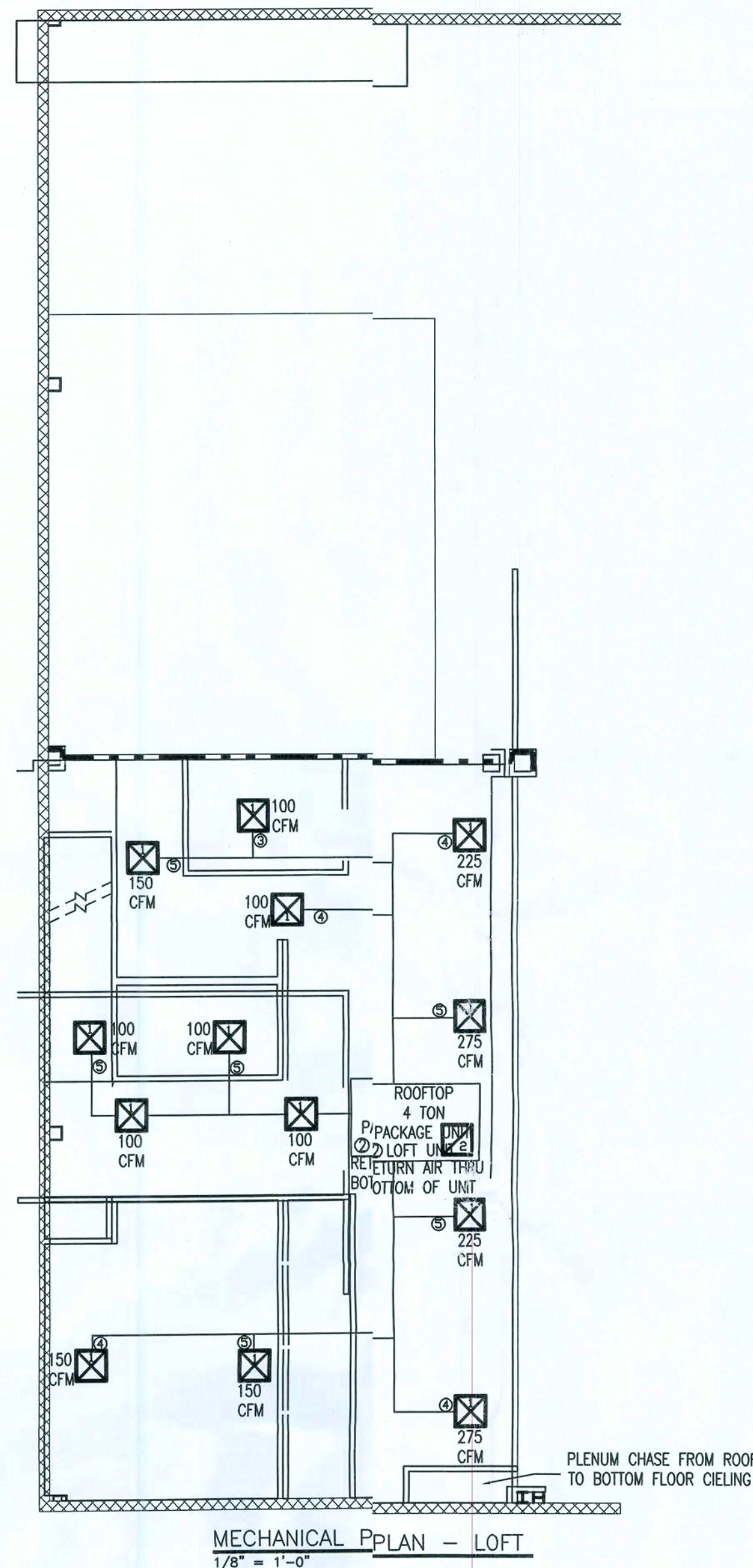
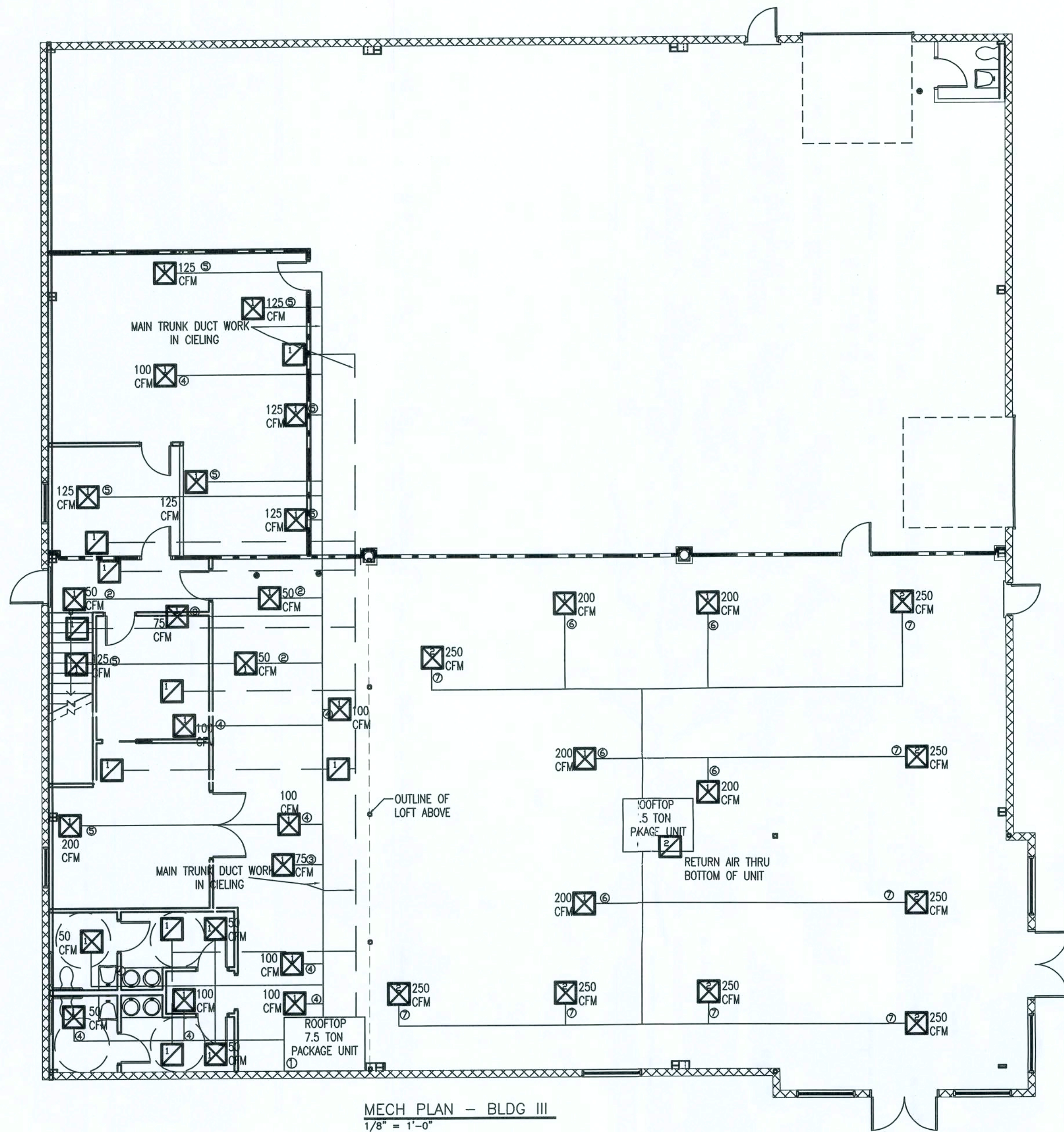
STRUCTURAL CIVIL ENGINEERS

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

MECHANICAL PLAN - BUILDING I & II

PROJECT NUMBER	PF06-163-S
DRAWN BY	F. VULETICH
CHECKED BY	G.G.

M-1.0



PACKAGE UNITS - ELECTRIC HEAT

QUAN.	TAG	AREA SERVED	YORK MODEL #'S ROOFTOP PACKAGE UNITS	NOMINAL TONS	TOTAL CFM	OA CFM	COIL EAT DB/WB	ESP	MAX FAN HP	ARI NET CAP. BTU	SENS. HEAT	EER	HEAT KW 240V	ELEC. NO. OF STAGES	MAX CU WEIGHT LBS	NOTES	ACCESSORIES
1	UNIT-1	OFFICES	R-410A PREDATOR ZH090	7.5	3000	?	80/67	0.5	3	9000	144 K,BTU	11.4	5	2	920	1,2,3,4,5	1,2,3,4,5
1	UNIT-3	SHOWROOM	R-410A PREDATOR ZH090	7.5	3000	?	80/67	0.5	3	9000	144 K,BTU	11.4	10 15	2	920	1,2,3,4,5	1,2,3,4,5
1	UNIT-2	LOFT	R-410A PREDATOR BH2048	4.0	1600	?	80/67	0.5	3/4	44.4	21.0	13	10 15	2	920	1,2,3,4,5	1,2,3,4,5

NOTES:

1. COOLING CAPACITIES BASED ON 95° F db AIR ENTERING OUTDOOR UNIT.

2. FAN COIL UNIT SHALL HAVE A SINGLE POINT POWER CONNECTION (FAN&HEAT).

3. COOLING CAPACITIES SCHEDULED ARE MINIMUM VALUES. ALTERNATIVE EQUIPMENT MUST MEET SCHEDULED VALUES.

4. SEER VALUE IS BASED ON ARI STANDARD 210.

5. ELECTRIC HEAT SHALL BE MOUNTED IN THE REHEAT POSITION.

ACCESSORIES

1. PROGRAMMABLE 7 DAY THERMOSTAT, WITH NIGHT SETBACK (55° HEATING, 85° COOLING), AUTO CHANGEOVER FOR HEAT-COOL, 5 DEGREE DEADBAN ADJUSTMENT BETWEEN HEAT AND COOLING OPERATION.

2. PROVIDE (2) SETS OF STANDARD 1" THICK PLEATED THROW-AWAY FILTERS. (1) DURING CONSTRUCTION, (1) AFTER CONSTRUCTION COMPLETION.

3. PROVIDE FILTER DRYER

4. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER,- LINES SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY, SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTALS. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED.

5. LOW AMBIENT OPERATION KIT TO ALLOW OPERATION DOWN TO 42 DEGREES

BASIS OF DESIGN: AS NOTED:
EQUAL BY: TRANE; YORK; LENNOX

GRILLS, REGISTERS, DIFFUSERS AND FLEXIBLE DUCT SIZING CHART				
INSTALL DIFFUSERS PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. ALL SUPPLY GRILLS TO BE TITUS TDC OR EQUIVALENT. MAX 25 NC.				
NECK SIZE	RD NECK SIZE	MAX CFM	DESIGNATOR	WITH #
9 X 9	8" DIA	225		
12 X 12	12" DIA	400		
15 X 15	14" DIA	600		
18 X 18	16" DIA	700		
21 X 21	21" X 21"	1500		
24 X 24	24" X 24"	2000		
INSTALL RETURN GRILLS PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. ALL RETURN AIR GRILLS TO BE TITUS 350 RS OR EQUIVALENT. MAX 25 NC.				
MODULE	NECK SIZE	MAX CFM	DESIGNATOR	WITH #
24 X 12	12" X 22"	1100		
24 X 24	22" X 22"	1800		
USE SIZES OF FLEXIBLE DUCT SHOWN BELOW. DO NOT EXCEED CFM LIMITS. NOTE: FLEX DUCTWORK SHALL BE A MAXIMUM OF 8' LONG AND MATCH THE NECK SIZE OF THE DIFFUSER OR GRILL.				
DUCT SIZE	MAX CFM	DESIGNATOR		
4"	20		①	
5"	50		②	
6"	75		③	
7"	120		④	
8"	160		⑤	
9"	220		⑥	
10"	300		⑦	
12"	500		⑧	
14"	700		⑨	
16"	1000		⑩	
18"	1400		⑪	
20"	1800		⑫	
22"	2300		⑬	
24"	3000		⑭	

REVISION NOTES			
REV #	DATE	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION
B	11-25-07	12-03-07	01-10-08
1	01-10-08	GEN. REV. PER CONTRACTOR	GEN. REV. PER CONTRACTOR
2	01-23-08	GEN. REV. PER CONTRACTOR	GEN. REV. PER CONTRACTOR

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Auth. # 9461

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

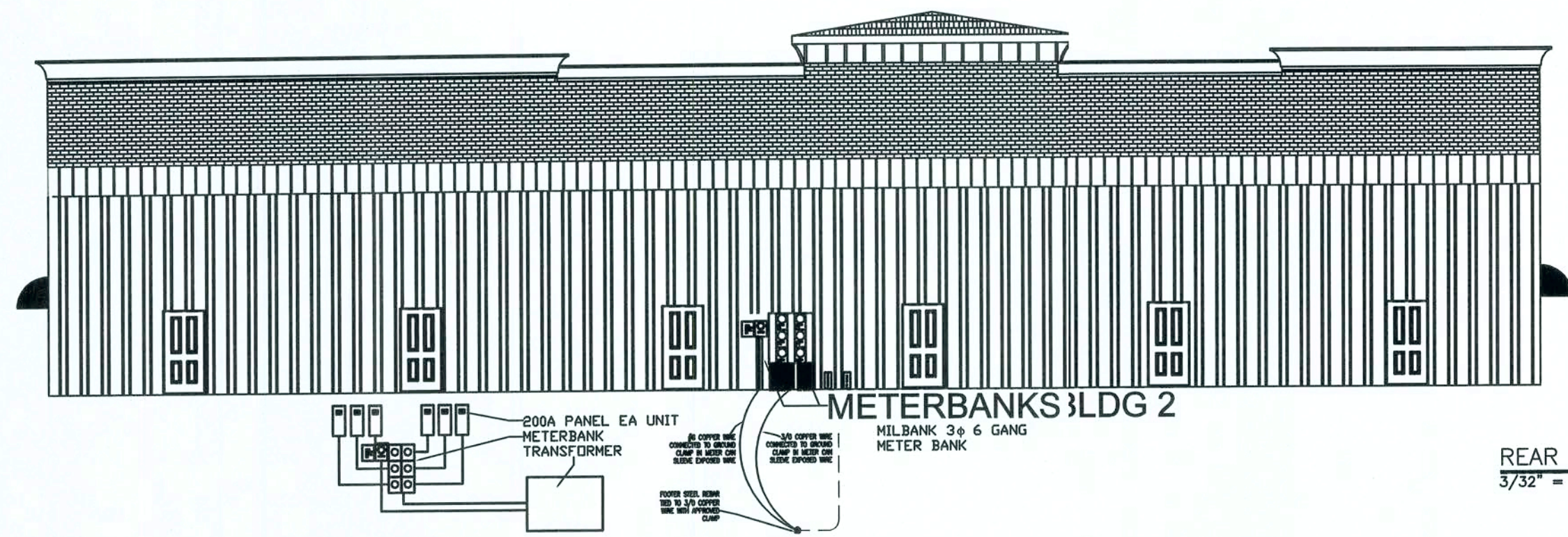
MECHANICAL PLAN - BUILDING III

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

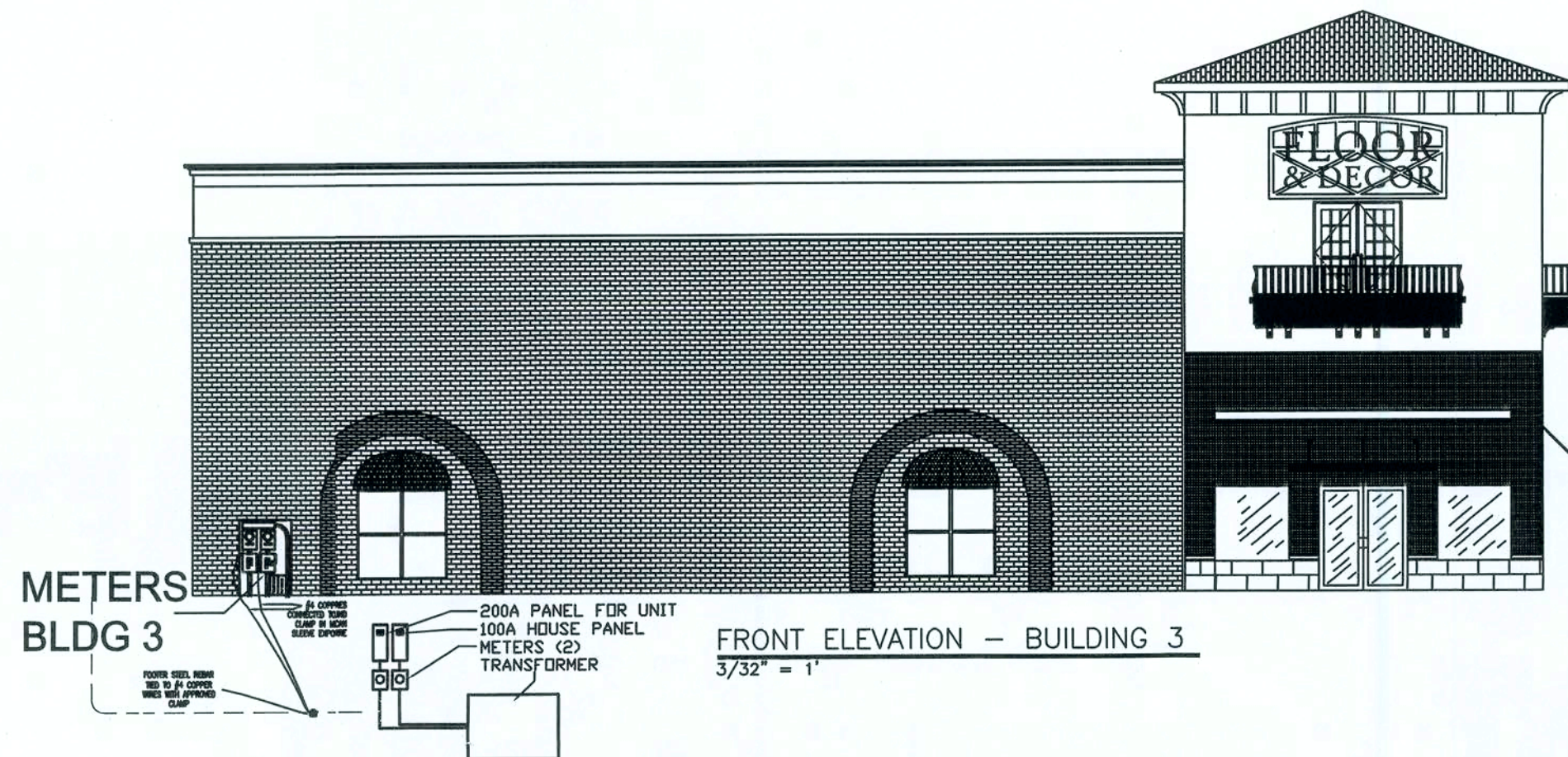
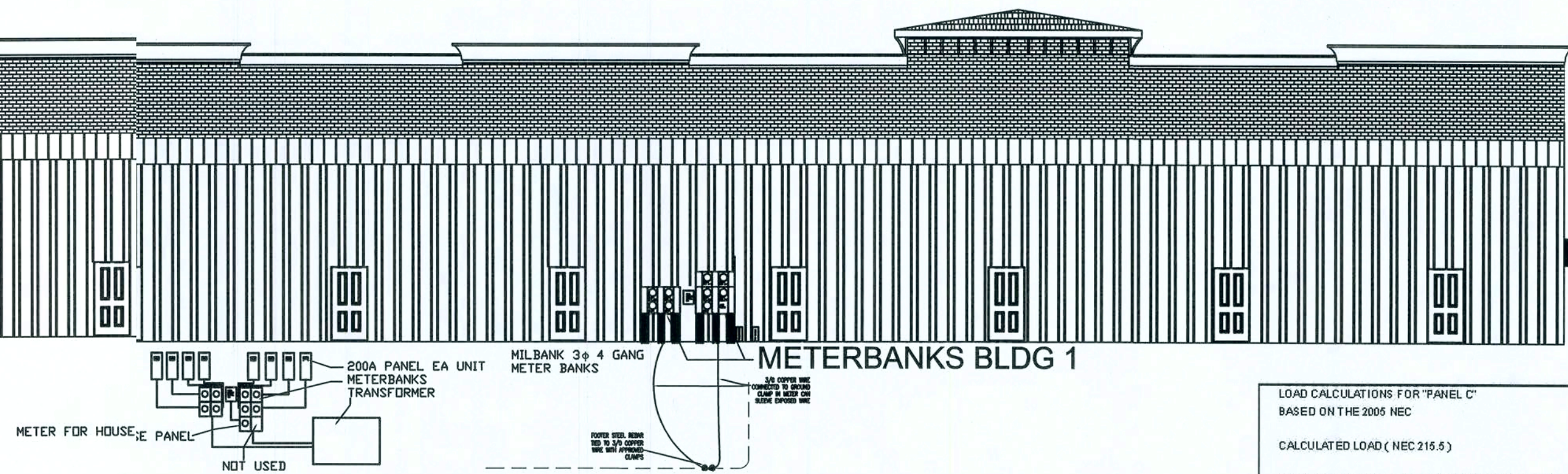
M-1.1

SHEET 17 OF 23

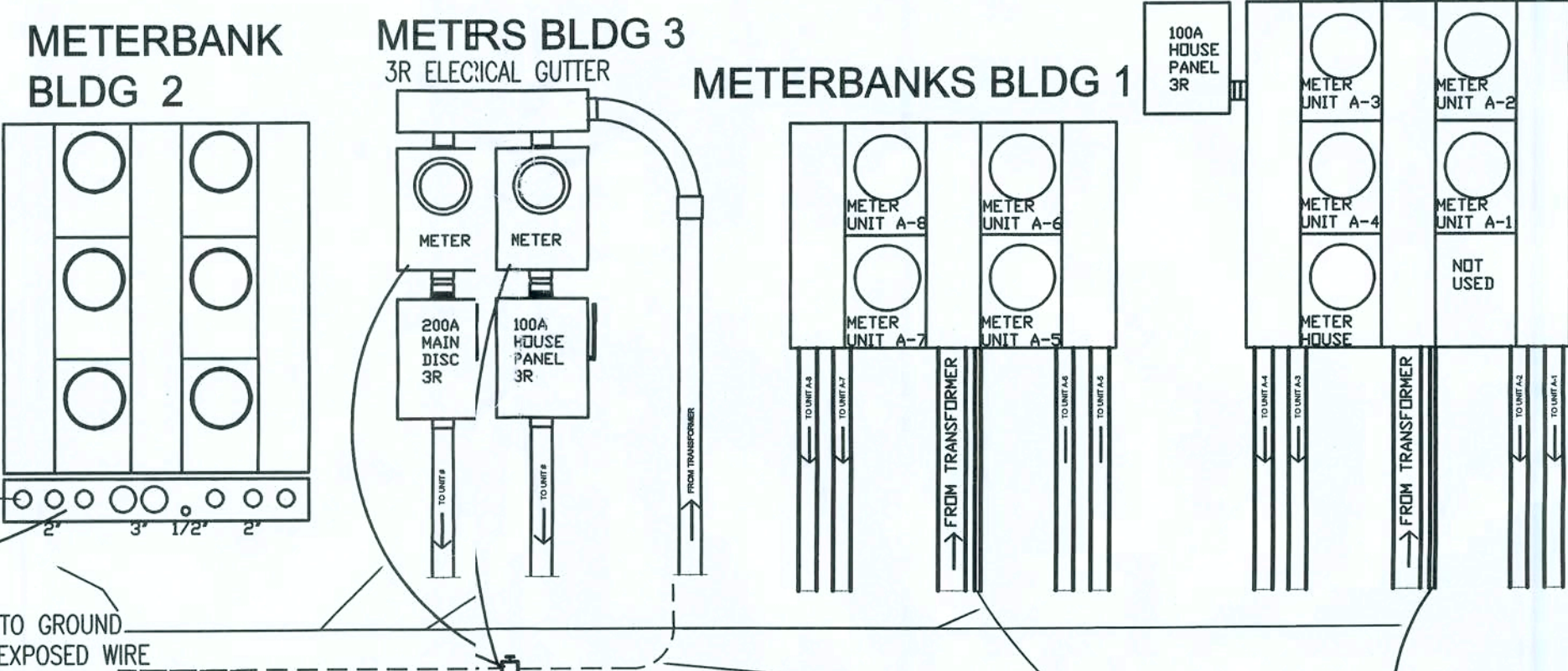
ISSUED FOR CONSTRUCTION



REAR ELEVATIONS -- BUILDINGS 1 AND 2
3/32" = 1"



FRONT ELEVATION -- BUILDING 3
3/32" = 1"



ELECTRICAL NOTE:
ELECTRICAL SERVICE TO BE UNDERGROUND WITH UNDER GROUND FEEDS TO EACH UNIT

STEEL REBAR TIED TO PER GROUND WIRE APPROVED CLAMP

BOTTOM OF CAN CONCENTRIC KO'S

COPPER WIRE CONNECTED TO GROUND CLAMP IN METER CAN SLEEVE EXPOSED WIRE

FOOTER STEEL REBAR TIED TO COPPER GROUND WIRE WITH APPROVED CLAMP

THREE# Y 120208 GENERAL LOAD CALCULATIONS FOR 6 UNITS

PANEL	MAIN DISCONNECT	FEEDER
FEED FROM	TRANSFORMER	FEEDER OF CONDUITS
# CIRCUITS	42	FEEDER OF CONDUITS
WIRE SIZE	200	WIRE SIZE L1
WIRE SIZE	120	WIRE SIZE L2
WIRE SIZE	3Y	WIRE SIZE L3
WIRE SIZE	600	WIRE SIZE NEUTRAL
WIRE SIZE	YES	WIRE SIZE GROUND
AVAILABLE FAULT CURRENT AT THIS PANEL	31,500	
MAIN BREAKER SIZE AMPS	600	
	FROM DECOR	
	3 PHASE GAUGS	

#	BKR	CIRCUIT DESCRIPTION	H	I	VA	VA	I	H	CIRCUIT DESCRIPTION	BKR	#
1		GEN LIGHTING	G	0.000	L1	2,400	G		OUTLINE LIGHTING		2
3		GEN LIGHTING	G	0.000	L2	2,400	G		OUTLINE LIGHTING		4
5		GEN LIGHTING	G	0.000	L3	2,400	G		OUTLINE LIGHTING		6
7		WATER HEATER	G	0.000	L1	14,000	G		AC 5 TO 10 HX		8
9		WATER HEATER	G	0.000	L2	14,000	G		AC 5 TO 10 HX		10
11		WATER HEATER	G	0.000	L3	14,000	G		AC 5 TO 10 HX		12
13		AN 1010V X 6	G	0.000	L1	20,000	G				14
15		AN 1010V X 6	G	0.000	L2	20,000	G				16
17		AN 1010V X 6	G	0.000	L3	20,000	G				18
19			G	0.000	L1	0	G				20
21			G	0.000	L2	0	G				22
23			G	0.000	L3	0	G				24
25			G	0.000	L1	0	G				26
27			G	0.000	L2	0	G				28
29			G	0.000	L3	0	G				30
31			G	0.000	L1	0	G				32
33			G	0.000	L2	0	G				34
35			G	0.000	L3	0	G				36
37			G	0.000	L1	0	G				38
39			G	0.000	L2	0	G				40
41			G	0.000	L3	0	G				42

THREE# Y 120208 GENERAL PANEL SCHEDULE FOR ALL UNITS BUT "C"

PANEL	PRIMARY	FEEDER
FEED FROM	METER	FEEDER OF CONDUITS
# CIRCUITS	32	FEEDER OF CONDUITS
WIRE SIZE	200	WIRE SIZE L1
WIRE SIZE	120	WIRE SIZE L2
WIRE SIZE	3Y	WIRE SIZE L3
WIRE SIZE	600	WIRE SIZE NEUTRAL
WIRE SIZE	YES	WIRE SIZE GROUND
AVAILABLE FAULT CURRENT AT THIS PANEL	28,400	
MAIN BREAKER SIZE AMPS	150	
	FLOOR N DECOR UNITS A - B	
	1180SF - 1180SF	
	GEN SERVICE ESTIMATES	

#	BKR	CIRCUIT DESCRIPTION	H	I	VA	VA	I	H	CIRCUIT DESCRIPTION	BKR	#
1	20A1	RECEPTILES	D	1.180	L1	633	G		SIGN OUTLINE LIGHTS	20A1P	2
2	20A1	RECEPTILES-LIGHTS	D	1.180	L2	633	G		SIGN OUTLINE LIGHTS	20A1P	4
3	20A1	LIGHTS	D	1.180	L3	633	G		SIGN OUTLINE LIGHTS	20A1P	6
7	20A1	SHOWCASE LIGHTS	G	400	L1	3,040	G		AC 5 TON	XXX	8
9	20A1	SHOWCASE LIGHTS	G	400	L2	3,040	G		AC 5 TON	XXX	10
11	20A1	SHOWCASE LIGHTS	G	400	L3	3,040	G		AC 5 TON	XXX	12
13			G	0.000	L1	0	G		AH-HEAT	XXX	14
15			G	0.000	L2	0	G		AH-HEAT	XXX	16
17			G	0.000	L3	0	G		AH-HEAT	XXX	18
19			G	0.000	L1	0	G				20
21			G	0.000	L2	0	G				22
23			G	0.000	L3	0	G				24
25			G	0.000	L1	0	G				26
27			G	0.000	L2	0	G				28
29			G	0.000	L3	0	G				30
31			G	0.000	L1	0	G				32

THREE# Y 120208 GENERAL LOAD CALCULATIONS FOR 6 UNITS

LOAD CALCULATIONS FOR "PANEL MAIN DISCONNECT"		BASED ON THE 2005 NEC	
CALCULATED LOAD (NEC 215.5)	L1 55,000 VA	L2 55,000 VA	L3 55,000 VA
CALCULATED LOAD WITH DEMAND FACTORS (NEC 215.5)	55,000 VA	55,000 VA	55,000 VA
GENERAL LOAD	55,000 VA	55,000 VA	55,000 VA
RECEPTACLE LOAD (NEC 220.14)	0 VA	0 VA	0 VA
1ST 10,000W	0 VA	0 VA	0 VA
CONTINUOUS LOAD (NEC 215.2)	0 VA	0 VA	0 VA
PLUS 25%	0 VA	0 VA	0 VA
MOTOR LOAD (NEC 430.24)	0 VA	0 VA	0 VA
PLUS 25% OF LARGEST MOTOR	0 VA	0 VA	0 VA
KITCHEN LOAD (NEC 220.58)	0 VA	0 VA	0 VA
L1 (0 X 1) =	0 VA	0 VA	0 VA
L2 (0 X 1) =	0 VA	0 VA	0 VA
L3 (0 X 1) =	0 VA	0 VA	0 VA
TOTAL BALANCED LOAD (3-PHASE)	55,000 VA	55,000 VA	55,000 VA
TOTAL BALANCED LOAD (1-PHASE)	0 VA	0 VA	0 VA
TOTAL UNBALANCED LOAD (1-PHASE)	0 VA	0 VA	0 VA
LINE AMPS BALANCED (3-PHASE)	498.0 A	498.0 A	498.0 A
LINE AMPS BALANCED (1-PHASE)	0.0 A	0.0 A	0.0 A
LINE AMPS UNBALANCED (1-PHASE)	0.0 A	0.0 A	0.0 A
TOTALS	498.0 A	498.0 A	498.0 A
ADJUSTMENT FACTOR	0.0 A	0.0 A	0.0 A
TOTAL DESIGN LOAD	498.0 A	498.0 A	498.0 A
VOLTAGE DROP CALCULATIONS			
Three Phase	(2 X 40' L X 0.0268 R X 498.0 A + 1,000 X 0.886) = 0.8 VD		
Voltage Drop %	(0.8 VD + 208 V X 100) = 0.4 % VD		
HARMONIC CURRENT CALCULATION (NEC 310.15 B(4) C)			
(Harmonic Load 0 VA + Connected Load 165,000 VA) X 100 = 0 %			
Harmonic Load Does Not Exceed 50%			
FAULT CURRENT CALCULATIONS			
Available Fault Current at Starting Point ((50,000 AFC X 1.00 UA) + 0 MC) = 50,000 AFC			
Conductor Factor CF - Formula ((1.732 X 40 L X 50,000 AFC) + (18,504 C X 2 X 208 V)) = 0.498 CF			
Conductor Multiplier CM - Formula ((1) + ((1 + 0.498 CF) X 0.501 CM) = 0.501 CM			
Conductor Let-Through Current CLC - Formula ((50,000 AFC X 0.501 CM) = 25,050 CLC			
A - Amps			
AFC - Available Fault Current			
C - Conductor Constant			
CF - Conductor Factor			
CLC - Conductor Let-Through Current			
CM - Conductor Multiplier			
L - Length of Conductor			
MC - Motor Contribution			
N - Number of Conductors Per Phase			
R - Resistance			
UA - Utility Adjustment 1.1			
V - Voltage			
VA - Volt Amps			
VD - Voltage Drop			
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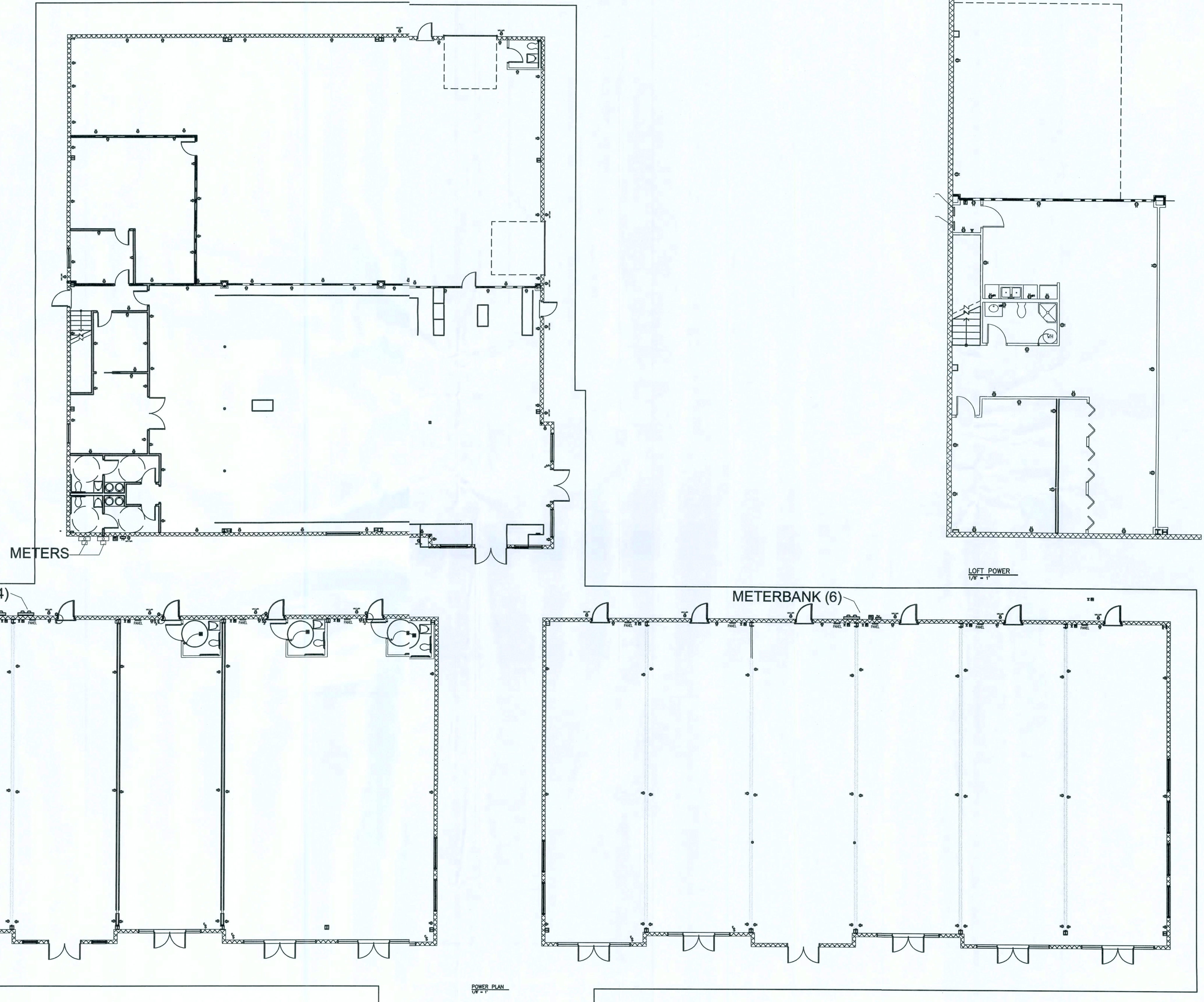
LOAD CALCULATIONS FOR "PANEL C"

BASED ON THE 2005 NEC

	L1	L2	L3
CALCULATED LOAD (NEC 215.5)	21,188 VA	21,188 VA	18,768 VA
CALCULATED LOAD WITH DEMAND FACTORS (NEC 215.5)	21,188 VA	21,188 VA	18,768 VA
GENERAL LOAD	14,284 VA	14,284 VA	11,884 VA
RECEPTACLE LOAD (NEC 220.14)	3,333 VA	3,333 VA	3,333 VA
1ST 10,000W	1,778 VA	1,778 VA	1,778 VA
CONTINUOUS LOAD (NEC 215.2)	0 VA	0 VA	0 VA
PLUS 25%	0 VA	0 VA	0 VA
MOTOR LOAD (NEC 430.24)	0 VA	0 VA	0 VA
PLUS 25% OF LARGEST MOTOR	0 VA	0 VA	0 VA
KITCHEN LOAD (NEC 220.58)	0 VA	0 VA	0 VA
L1 (0 X 1) =	0 VA	0 VA	0 VA
L2 (0 X 1) =	0 VA	0 VA	0 VA
L3 (0 X 1) =	0 VA	0 VA	0 VA
TOTAL BALANCED LOAD (3-PHASE)	18,993 VA	18,993 VA	18,993 VA
TOTAL BALANCED LOAD (1-PHASE)	2,400 VA	2,400 VA	0 VA
TOTAL UNBALANCED LOAD (1-PHASE)	0 VA	0 VA	0 VA
LINE AMPS BALANCED (3-PHASE)	141.5 A	141.5 A	141.5 A
LINE AMPS BALANCED (1-PHASE)	23.1 A	23.1 A	0.0 A
LINE AMPS UNBALANCED (1-PHASE)	0.0 A	0.0 A	0.0 A
TOTALS	184.6 A	164.6 A	141.5 A
ADJUSTMENT FACTOR	0.0 A	0.0 A	0.0 A
TOTAL DESIGN LOAD	184.6 A	164.6 A	141.5 A
VOLTAGE DROP CALCULATIONS			
Three Phase	(2 X 40' L X 0.0268 R X 184.6 A + 1,000 X 0.886) = 0.9 VD		
Voltage Drop %	(0.9 VD + 208 V X 100) = 0.4 % VD		
HARMONIC CURRENT CALCULATION (NEC 310.15 B(4) C)			
(Harmonic Load 0 VA + Connected Load 61,104 VA) X 100 = 0 %			
Harmonic Load Does Not Exceed 50%			
FAULT CURRENT CALCULATIONS			
Available Fault Current at Starting Point ((50,000 AFC X 1.00 UA) + 0 MC) = 50,000 AFC			
Conductor Factor CF - Formula ((1.732 X 40 L X 50,000 AFC) + (18,504 C X 2 X 208 V)) = 1.196 CF			
Conductor Multiplier CM - Formula ((1) + ((1 + 1.196 CF) X 0.501 CM) = 0.501 CM			
Conductor Let-Through Current CLC - Formula ((50,000 AFC X 0.501 CM) = 25,050 CLC			
A - Amps			
AFC - Available Fault Current			
C - Conductor Constant			
CF - Conductor Factor			
CLC - Conductor Let-Through Current			
CM - Conductor Multiplier			
L - Length of Conductor			
MC - Motor Contribution			
N - Number of Conductors Per Phase			
R - Resistance			
UA - Utility Adjustment 1.1			
V - Voltage			
VA - Volt Amps			
VD - Voltage Drop			
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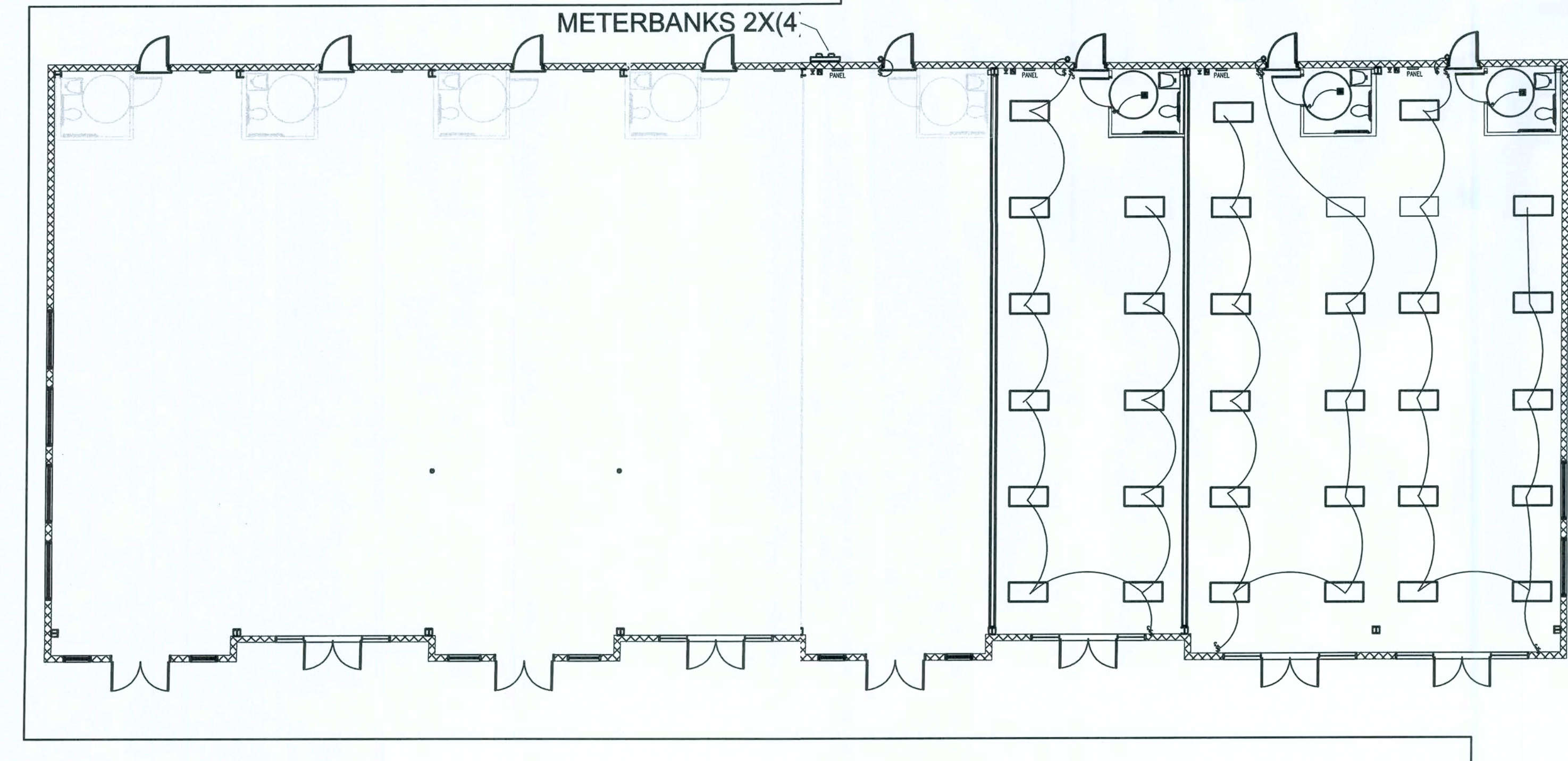
THREE# Y 120208 GENERAL CALCULATIONS FOR ALL UNITS BUT C

LOAD CALCULATIONS FOR "PANEL PRIMARY"		BASED ON THE 2005 NEC	
CALCULATED LOAD (NEC 215.5)	L1 5,153 VA	L2 5,153 VA	L3 5,153 VA
CALCULATED LOAD WITH DEMAND FACTORS (NEC 215.5)	5,153 VA	5,153 VA	5,153 VA
GENERAL LOAD	3,073 VA	3,073 VA	5,153 VA
RECEPTACLE LOAD (NEC 220.14)	1,180 VA	1,180 VA	0 VA
1ST 10,000W	0 VA	0 VA	0 VA
CONTINUOUS LOAD (NEC 215.2)	0 VA	0 VA	0 VA
PLUS 25%	0 VA	0 VA	0 VA
MOTOR LOAD (NEC 430.24)	0 VA	0 VA	0 VA
PLUS 25% OF LARGEST MOTOR	0 VA	0 VA	0 VA
KITCHEN LOAD (NEC 220.58)	0 VA	0 VA	0 VA
L1 (0 X 1) =	0 VA	0 VA	0 VA
L2 (0 X 1) =	0 VA	0 VA	0 VA
L3 (0 X 1) =	0 VA	0 VA	0 VA
TOTAL BALANCED LOAD (3-PHASE)	5,153 VA	5,153 VA	5,153 VA
TOTAL BALANCED LOAD (1-PHASE)	0 VA	0 VA	0 VA
TOTAL UNBALANCED LOAD (1-PHASE)	0 VA	0 VA	0 VA
LINE AMPS BALANCED (3-PHASE)	42.9 A	42.9 A	42.9 A
LINE AMPS BALANCED (1-PHASE)	0.0 A	0.0 A	0.0 A
LINE AMPS UNBALANCED (1-PHASE)	0.0 A	0.0 A	0.0 A
TOTALS	42.9 A	42.9 A	42.9 A
ADJUSTMENT FACTOR	10.7 A	10.7 A	10.7 A
TOTAL DESIGN LOAD	53.6 A	53.6 A	53.6 A
VOLTAGE DROP CALCULATIONS			
Three Phase	(2 X 20' L X 0.1220 R X 42.9 A + 1,000 X 0.886) = 0.2 VD		
Voltage Drop %	(0.2 VD + 208 V X 100) = 0.1 % VD		
HARMONIC CURRENT CALCULATION (NEC 310.15 B(4) C)			
(Harmonic Load 0 VA + Connected Load 16,462 VA) X 100 = 0 %			
Harmonic Load Does Not Exceed 50%			
FAULT CURRENT CALCULATIONS			
Available Fault Current at Starting Point ((50,000 AFC X 1.00 UA) + 0 MC) = 50,000 AFC			
Conductor Factor CF - Formula ((1.732 X 20 L X 50,000 AFC) + (18,504 C X 2 X 208 V)) = 0.894 CF			
Conductor Multiplier CM - Formula ((1) + ((1 + 0.894 CF) X 0.501 CM) = 0.501 CM			
Conductor Let-Through Current CLC - Formula ((50,000 AFC X 0.501 CM) = 25,050 CLC			
A - Amps			
AFC - Available Fault Current			
C - Conductor Constant			
CF - Conductor Factor			
CLC - Conductor Let-Through Current			
CM - Conductor Multiplier			
L - Length of Conductor			
MC - Motor Contribution			
N - Number of Conductors Per Phase			
R - Resistance			
UA - Utility Adjustment 1.1			
V - Voltage			
VA - Volt Amps			
VD - Voltage Drop			
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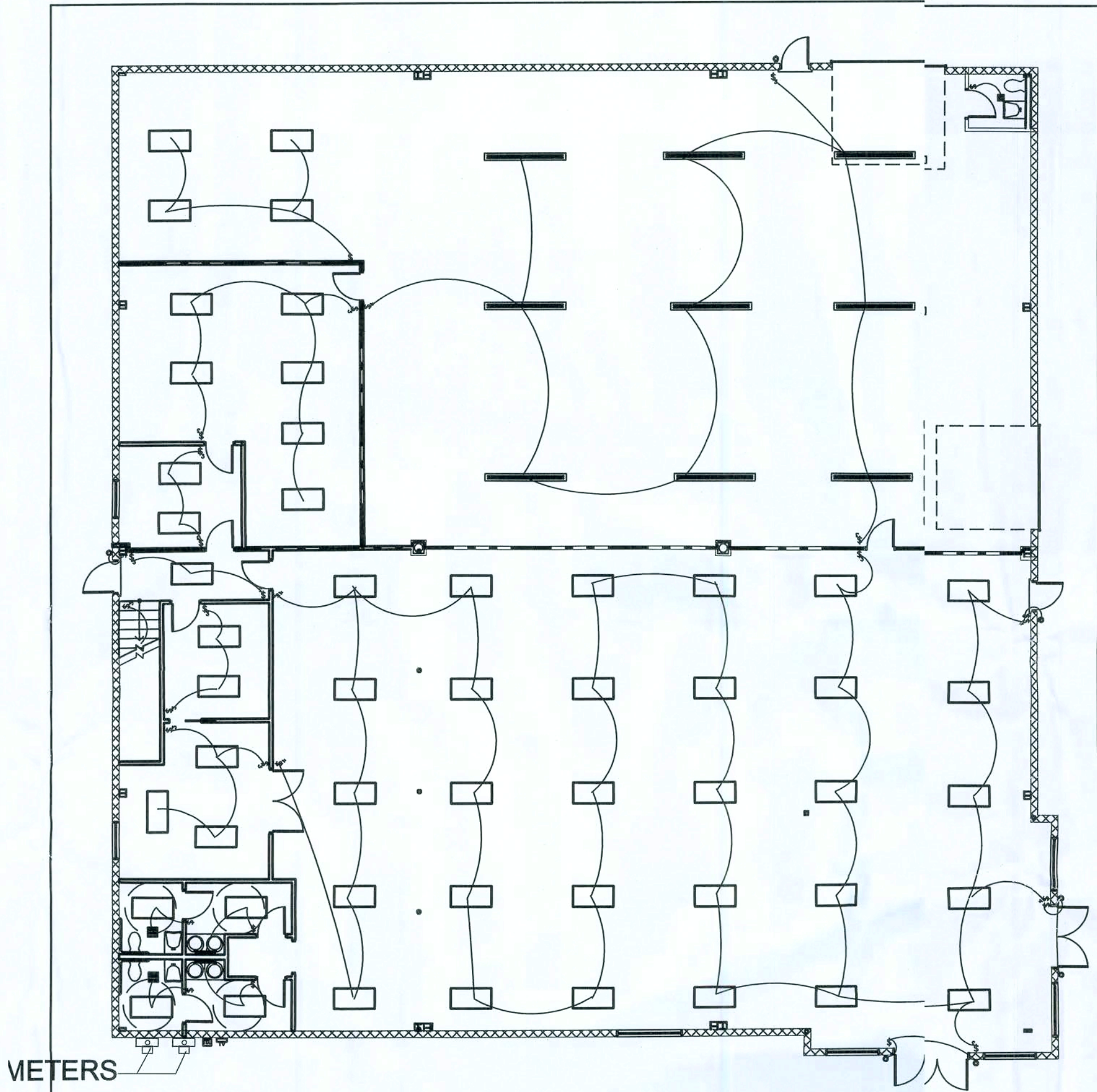
11/30/09

ELECTRICAL PLAN		SHOPS AT THE CROSSROADS NEW STRIP MALL LAKE CITY, FLORIDA		 P.O. Box 187 130 West Howard Street Live Oak FL 32064 Phone: (386) 362-6678 Fax: (386) 362-6133 STRUCTURAL/CIVIL ENGINEERS Gary J. Gill, PE 51942 Authn. # 9461	
PROJECT NUMBER PF06-163-S		DATE 11-26-07		REVISION NOTES	
DRAWN BY F. VULETICH		REV # B		ISSUED FOR REVIEW	
CHECKED BY G.G.		0		ISSUED FOR CONSTRUCTION	
E-2.0		1		01-10-08 GEN. REV. PER CONTRACTOR	
SHEET 19 OF 23					

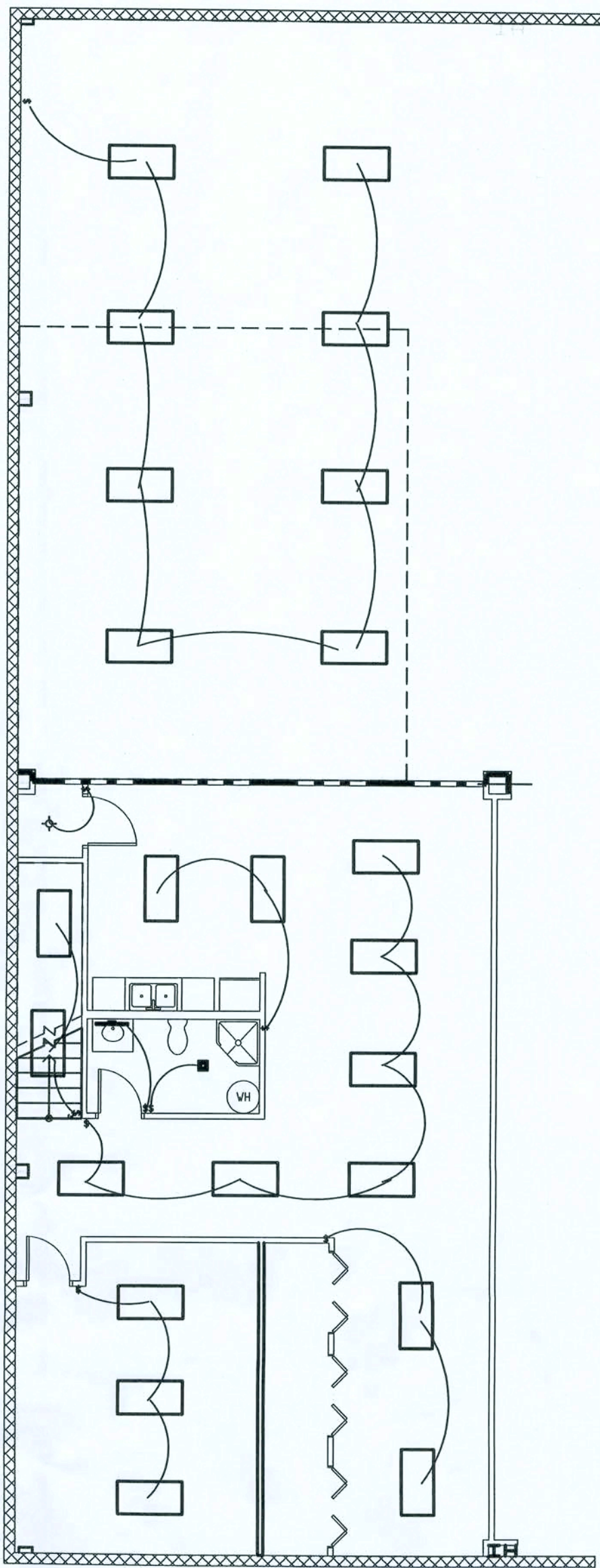
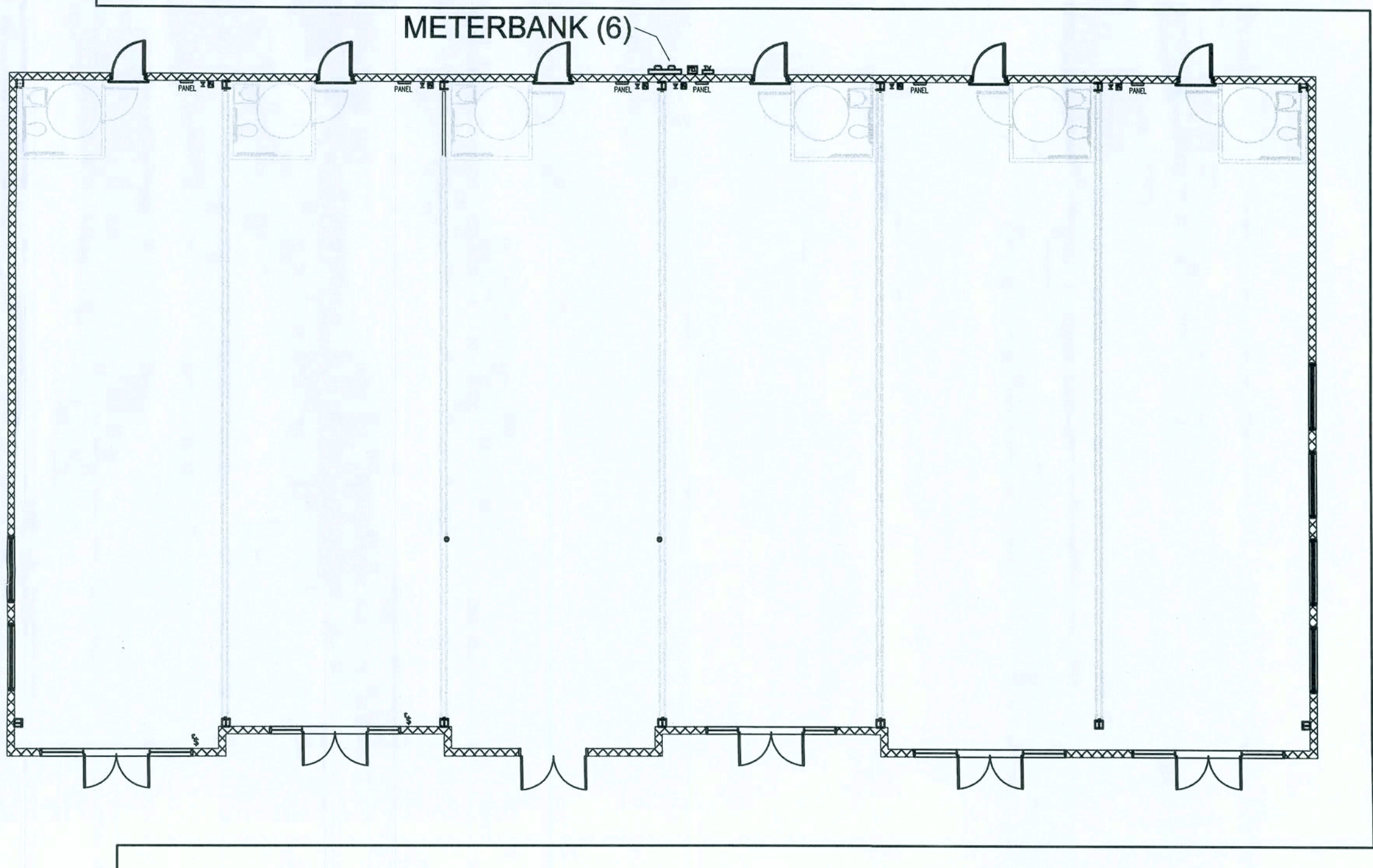


30-Jan-08

ELECTRICAL LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
•	15	SINGLE POLE SWITCH
•	20	3-WAY SWITCH
•	5	4-WAY SWITCH
□	85	48" FLUORESCENT 4 BULB LIGHT FIXTURE
—	9	8" 2 BULB FLUORESCENT FIXTURE
■	4	BATH EXHAUST FAN/LIGHT
—	2	BATH VANITY LIGHT
■	2	BATH EXHAUST FAN
+	1	CILING MOUNTED LIGHT FIXTURE



LIGHTING PLAN 1/8" = 1'



LOFT LIGHTING 1/8" = 1'

ISSUED FOR CONSTRUCTION

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

ELECTRICAL LIGHTING PLAN

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

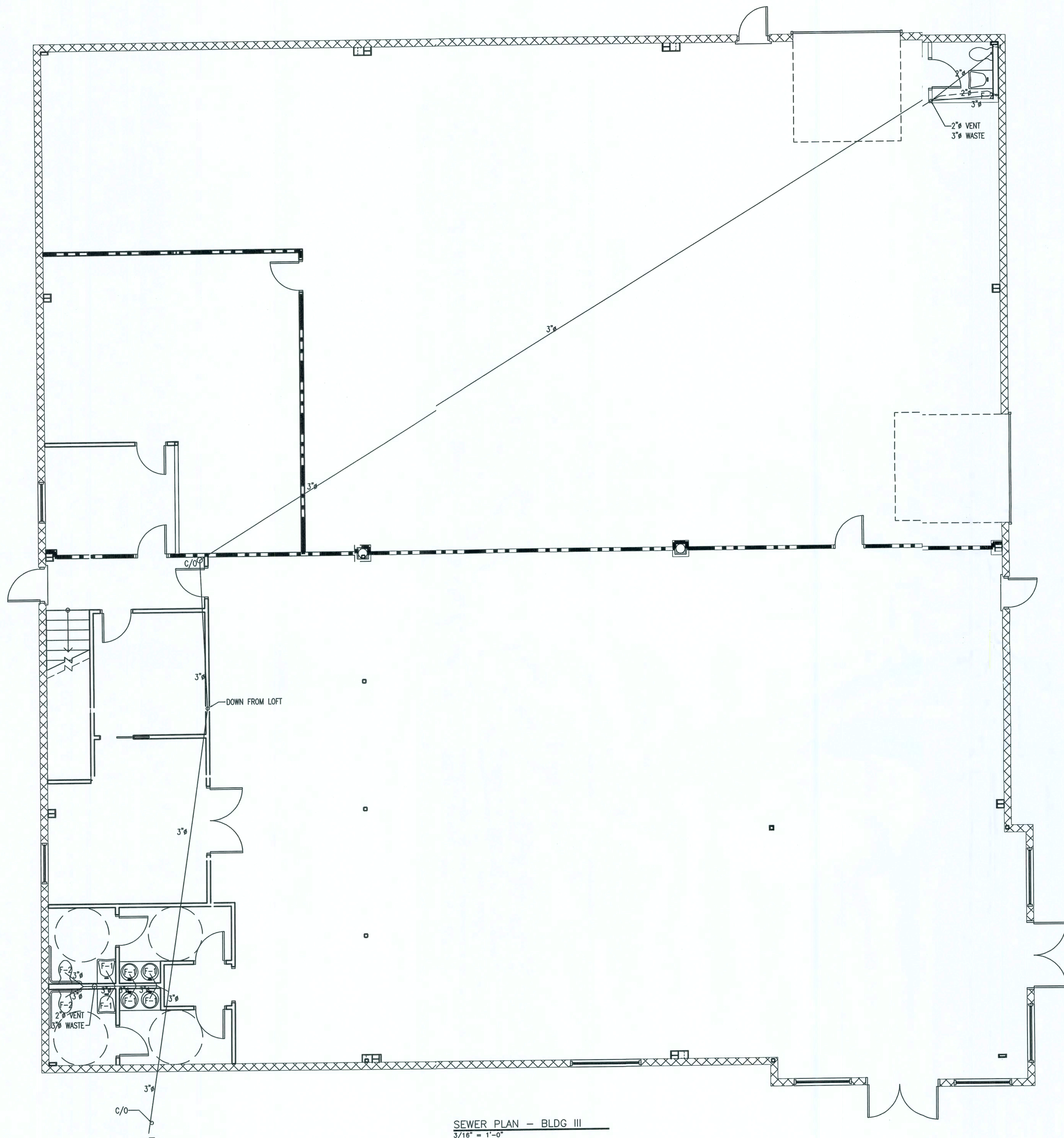
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SHEET 20 OF 23

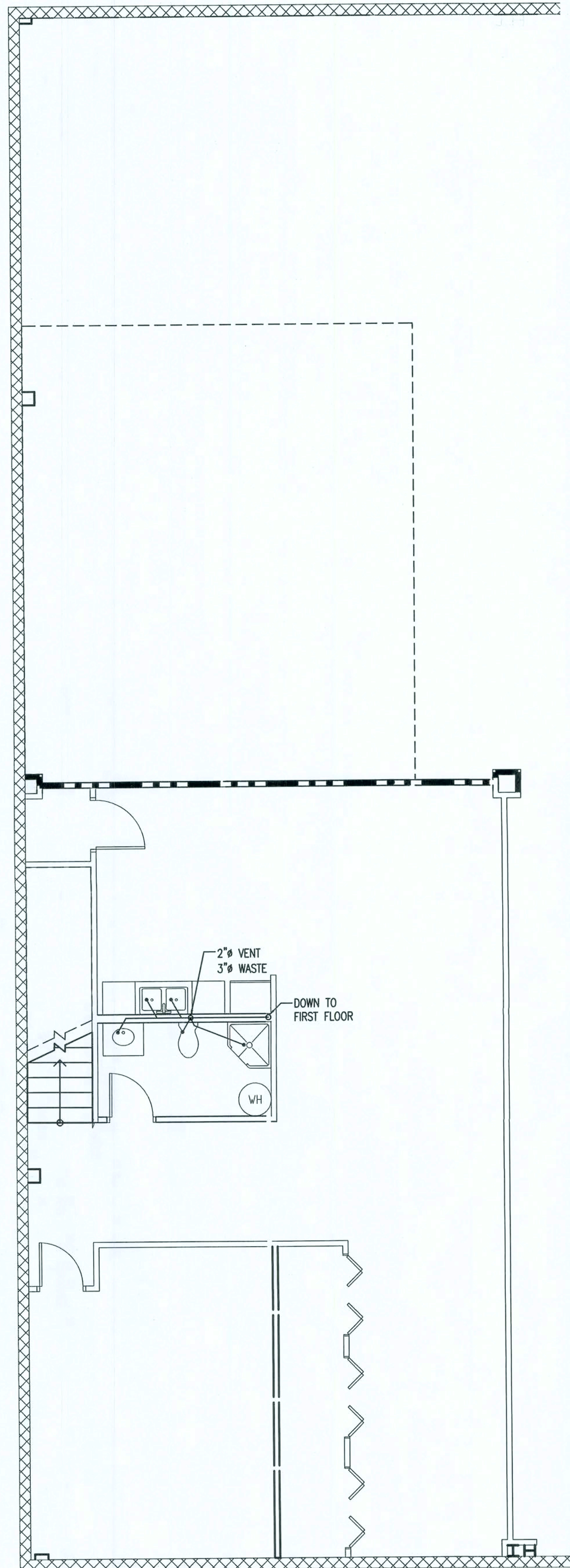


P.O. Box 187
130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth. # 9461

REV #	DATE	REVISION NOTES
B	11-26-07	ISSUED FOR REVIEW
0	12-03-07	ISSUED FOR CONSTRUCTION
1	01-10-08	GEN. REV. PER CONTRACTOR



SEWER PLAN - BLDG III
3/16" = 1'-0"



SEWER PLAN - BLDG III LOFT
3/16" = 1'-0"

PLUMBING FIXTURE SCHEDULE

F-1
SHALL BE AN AMERICAN STANDARD MODEL RONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN; OFFSET PERFORATED WHEELCHAIR LAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCGUIRE #155WC.

F-2
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216.143 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

F-3
SHALL BE AN AMERICAN STANDARD MODEL 7502.103 CULINAIRE TOP MOUNT DOUBLE BOWL SINK, PROVIDE A 4137.100 CULINAIRE CENTERSET FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.2 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH

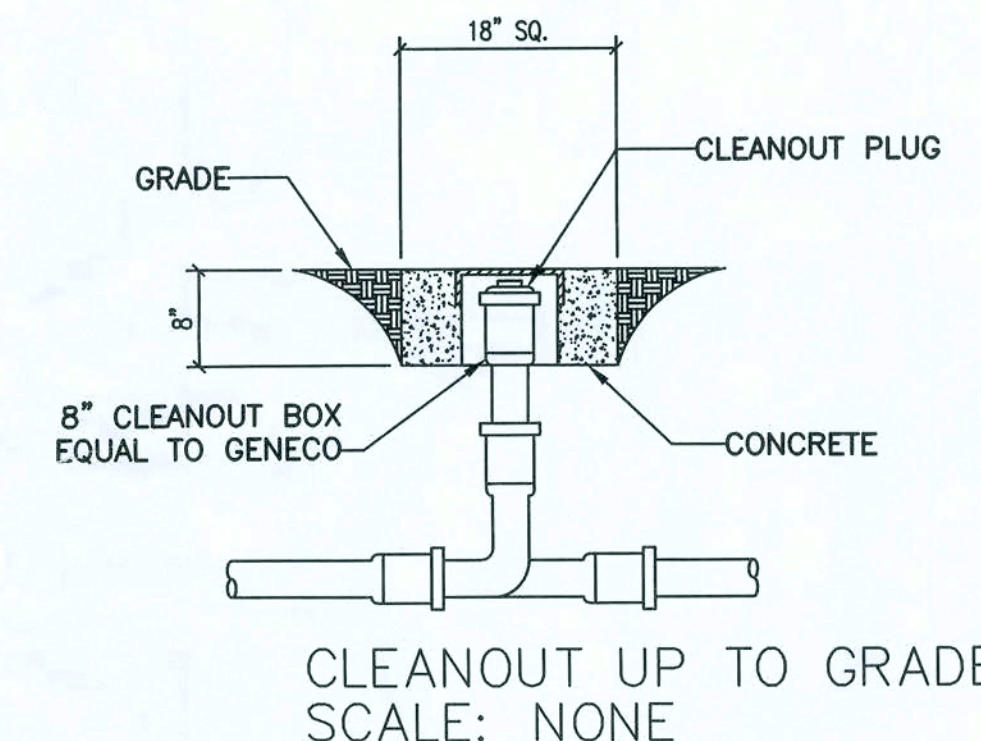
F-4
SHALL BE AN AMERICAN STANDARD 32" X 34" X 72" WHITE STERLING SHOWER STALL MADE WITH SOLID VIKRELL MATERIAL. STERLING MODEL # 6201.

HOSE BIBB

SHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL HYDRANT WITH COVER AND CONTROL KEY.

NOTES:

1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURE FOR INDIVIDUAL SHUT-OFF.
3. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LATEST ADA REQUIREMENTS.
4. ALL FLOOR DRAINS SHALL BE SELF PRIMED.



CLEANOUT UP TO GRADE
SCALE: NONE

GENERAL PLUMBING NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ON YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERSAT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS. JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
 - a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
 - b. CONDENSATE DRAIN: 1/2" THICK ARMAFLEX

REV #	DATE	###	REVISION NOTES
1	11-26-07	B	ISSUED FOR REVIEW
0	12-03-07	0	ISSUED FOR CONSTRUCTION
1	01-10-08	1	GEN. REV. PER CONTRACTOR
2	01-10-08	2	GEN. REV. PER CONTRACTOR

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Phone: (386) 362-3678
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STRUCTURAL CIVIL ENGINEERS
Gary J. Gill, PE 51942
Auth. # 9461



SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

SEWER PLAN - BLDG III

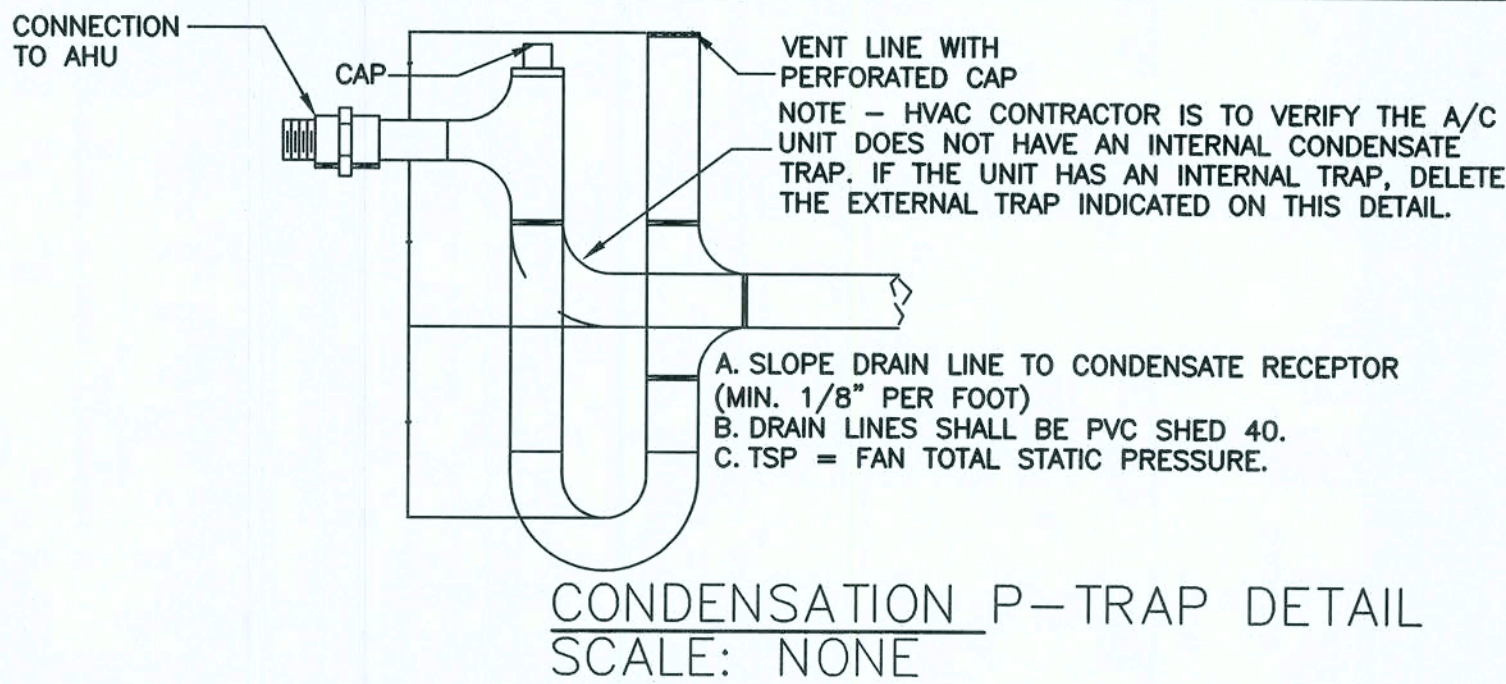
PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

P-1.0

ISSUED FOR CONSTRUCTION

LEGEND	
---	COLD WATER
---	HOT WATER
---	VENT
---	WASTE

ELECTRIC WATER HEATER SCHEDULE								
MARK	LOCATION	TYPE	PUT KW	RECOVERY GPH (90°F TEMP. RISE)	NOMINAL STORAGE GALLONS	BASIS OF DESIGN	EXPANSION TANKS	REMARKS
WH	BREAK ROOM	TANK TYPE	50000	22	40	A.O. SMITH PROMAX ECT-40 OR APPROVED EQUAL	FLEXCON WH-B	FLOOR MOUNTED



GENERAL PLUMBING NOTES

- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC.. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- ALL MATERIAL SHALL BE NEW.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ON YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
- ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- WATER PIPING SHALL BE CPVC.
- SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
- AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERNAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
- FURNISH AND INSTALL APPROVED AIR CHAMBERS/AT EACH PLUMBING FIXTURE AND PDI APPROVED SHOCK ARRESTERS ON MAIN LINE AND RISERS.
- PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
- INSULATE LINES AS FOLLOWS:
a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
b. CONDENSATE DRAIN: 1/2" THICK ARMAFLEX

PLUMBING FIXTURE SCHEDULE

F-1
SHALL BE AN AMERICAN STANDARD MODEL RONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN: OFFSET PERFORATED WHEELCHAIR LAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCQUIRE #155WC.

F-2
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216.143 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

F-3
SHALL BE AN AMERICAN STANDARD MODEL 7502.103 CULINAIRE TOP MOUNT DOUBLE BOWL SINK, PROVIDE A 4137.100 CULINAIRE CENTERSET FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.2 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH

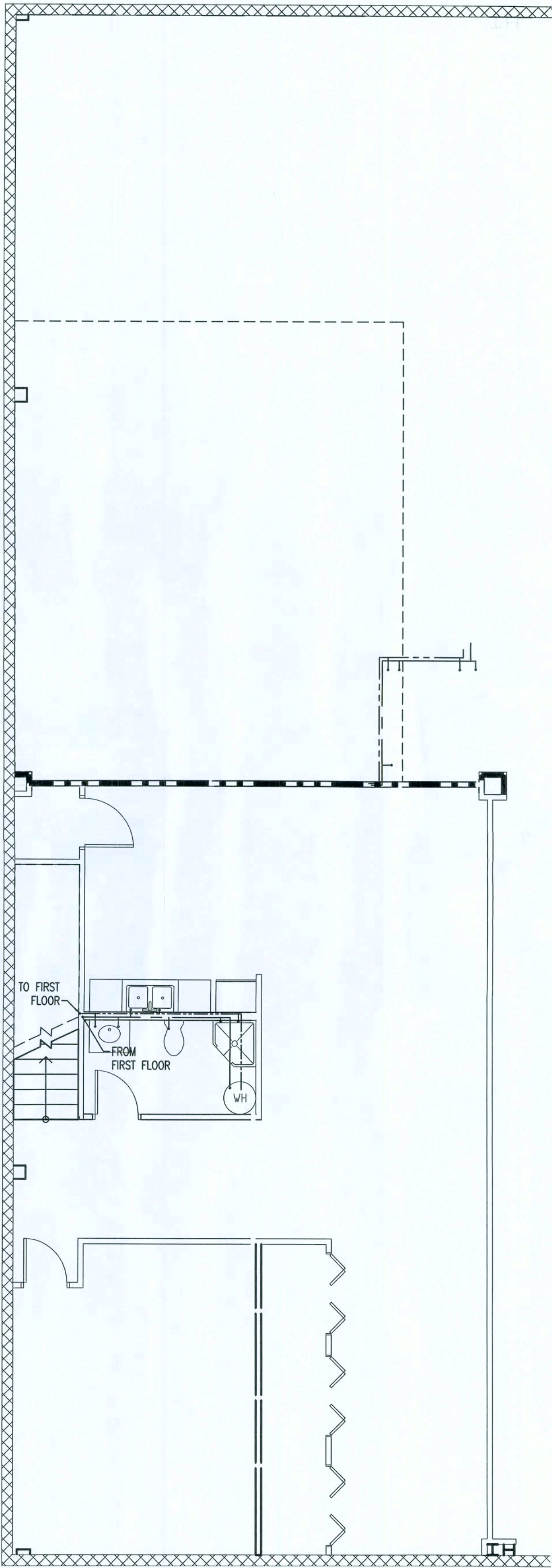
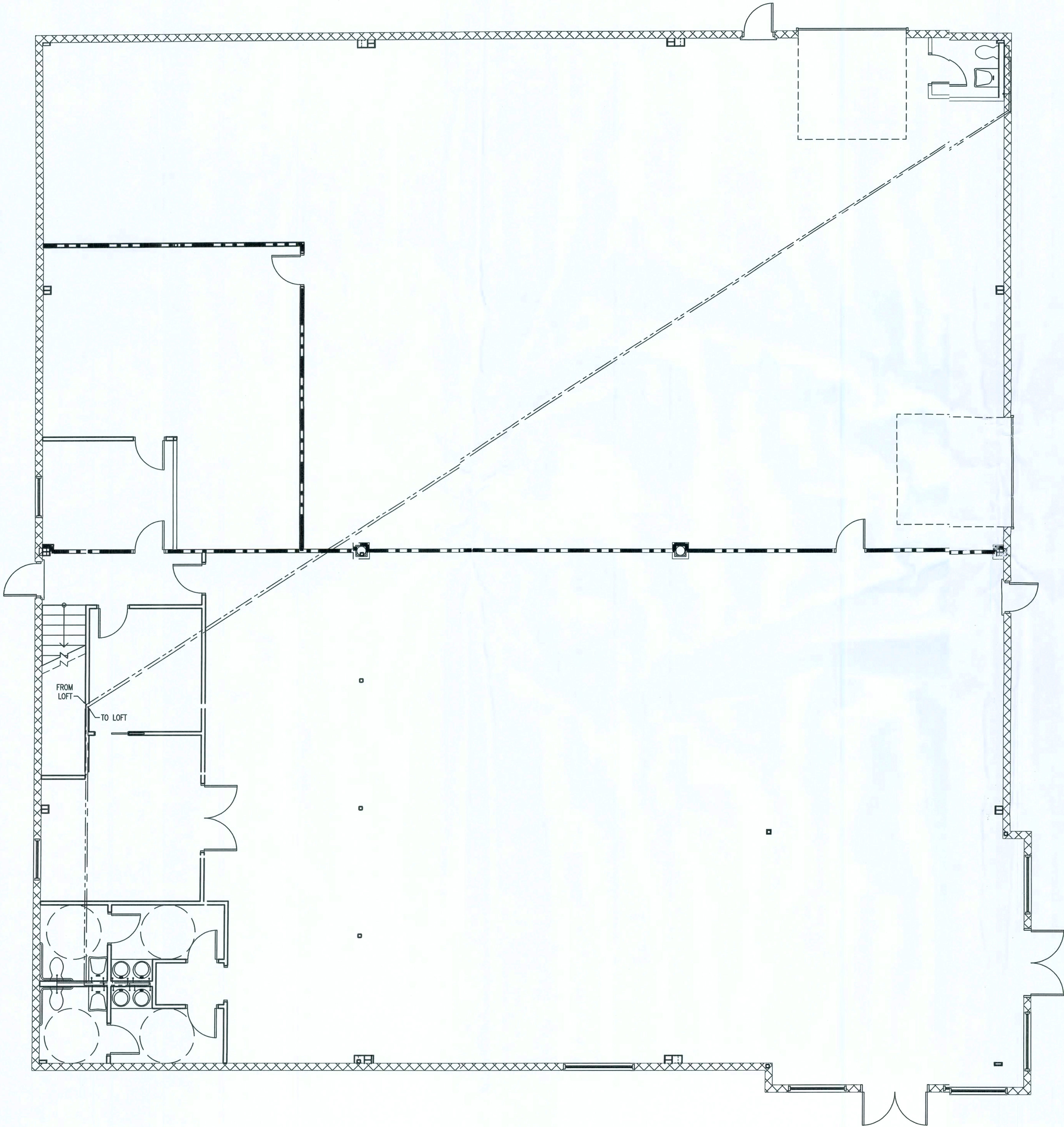
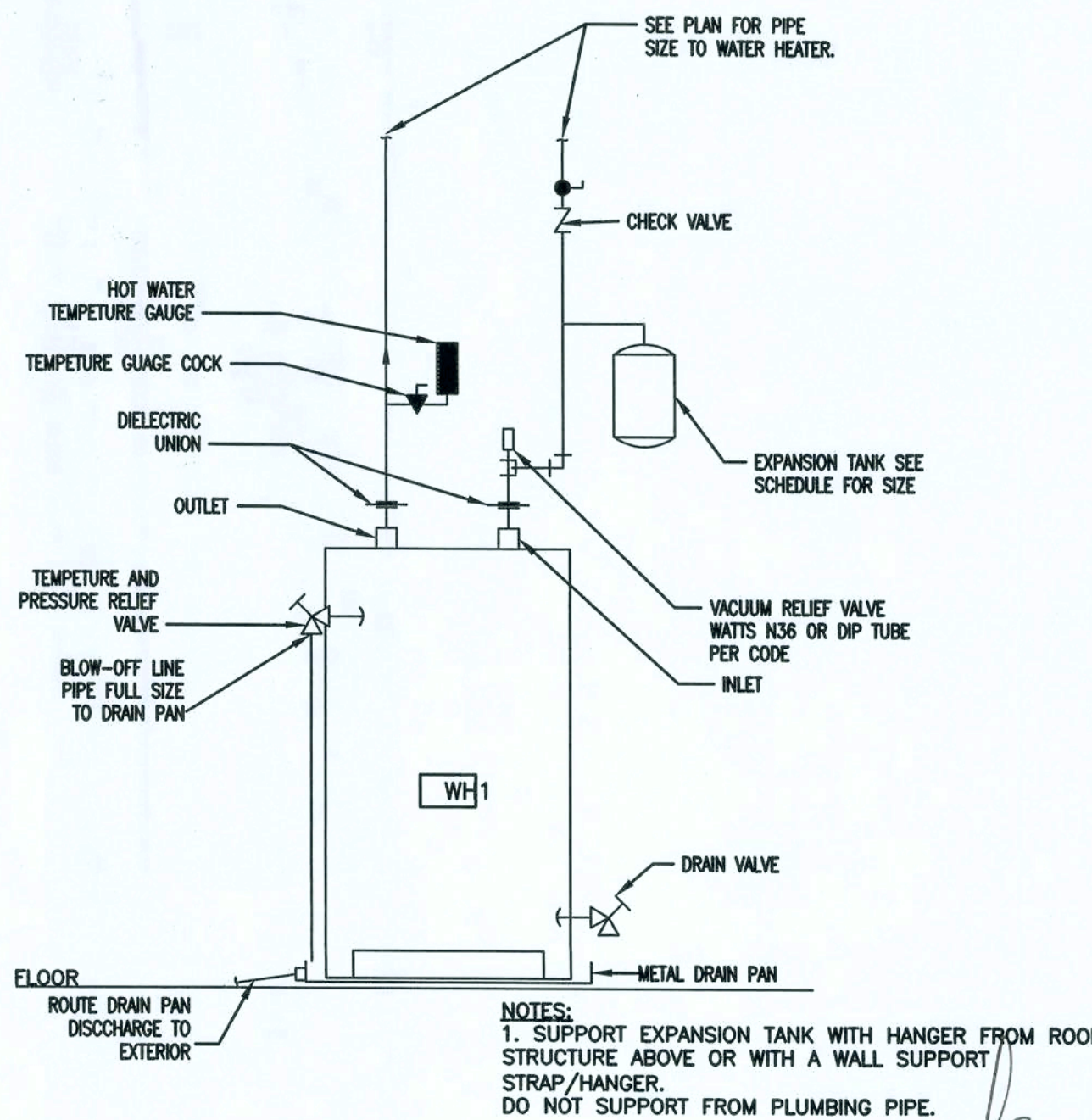
F-4
SHALL BE AN AMERICAN STANDARD 32" X 34" X 72" WHITE STERLING SHOWER STALL MADE WITH SOLID VIKRELL MATERIAL. STERLING MODEL # 6201.

HOSE BIBB

SHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL HYDRANT WITH COVER AND CONTROL KEY.

NOTES:

- ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURE FOR INDIVIDUAL SHUT-OFF.
- ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LATEST ADA REQUIREMENTS.
- ALL FLOOR DRAINS SHALL BE SELF PRIMED.



ISSUED FOR CONSTRUCTION

WATER HEATER DETAIL
SCALE: NONE

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

WATER PLAN - BLDG III

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

P-2.0

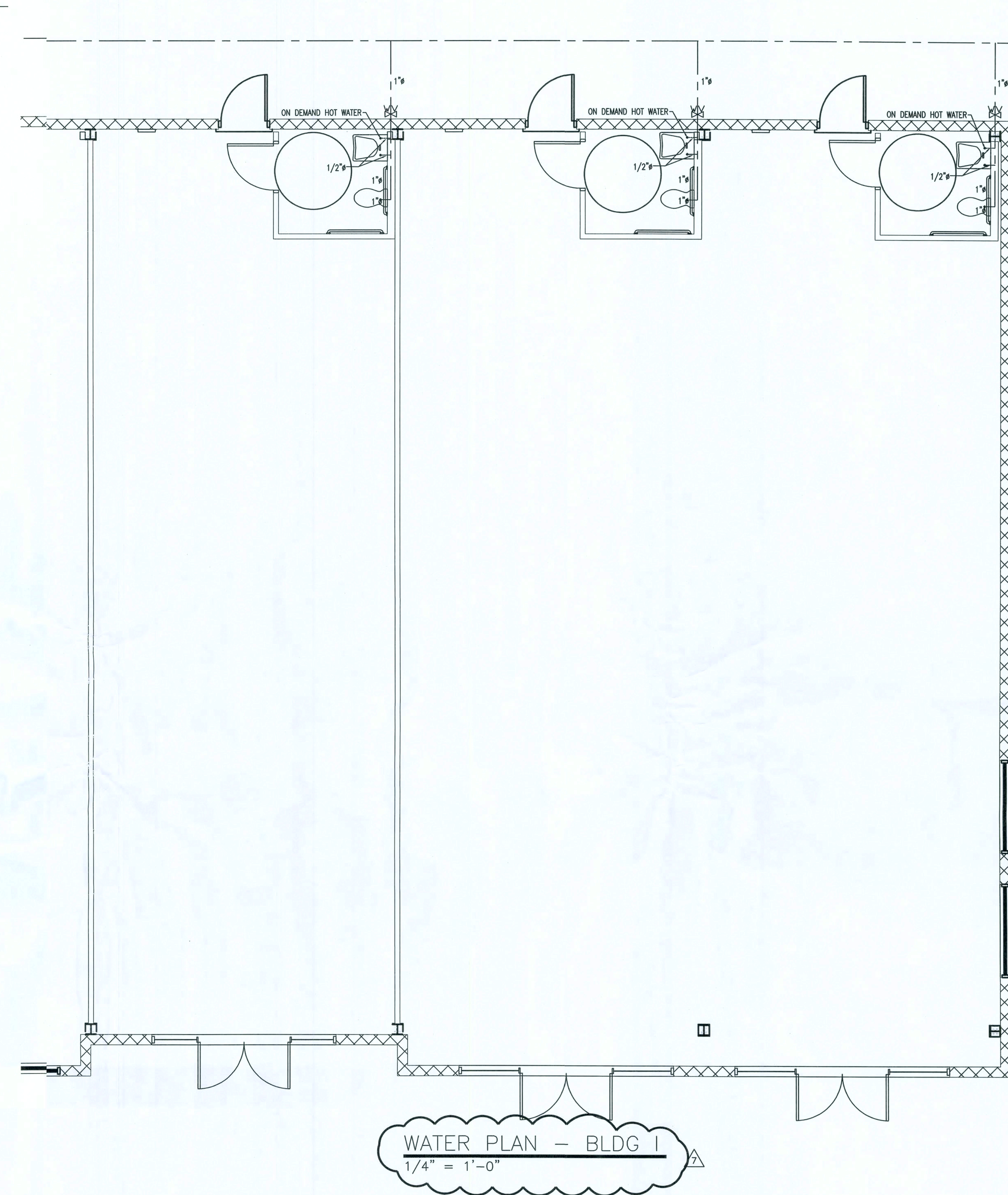
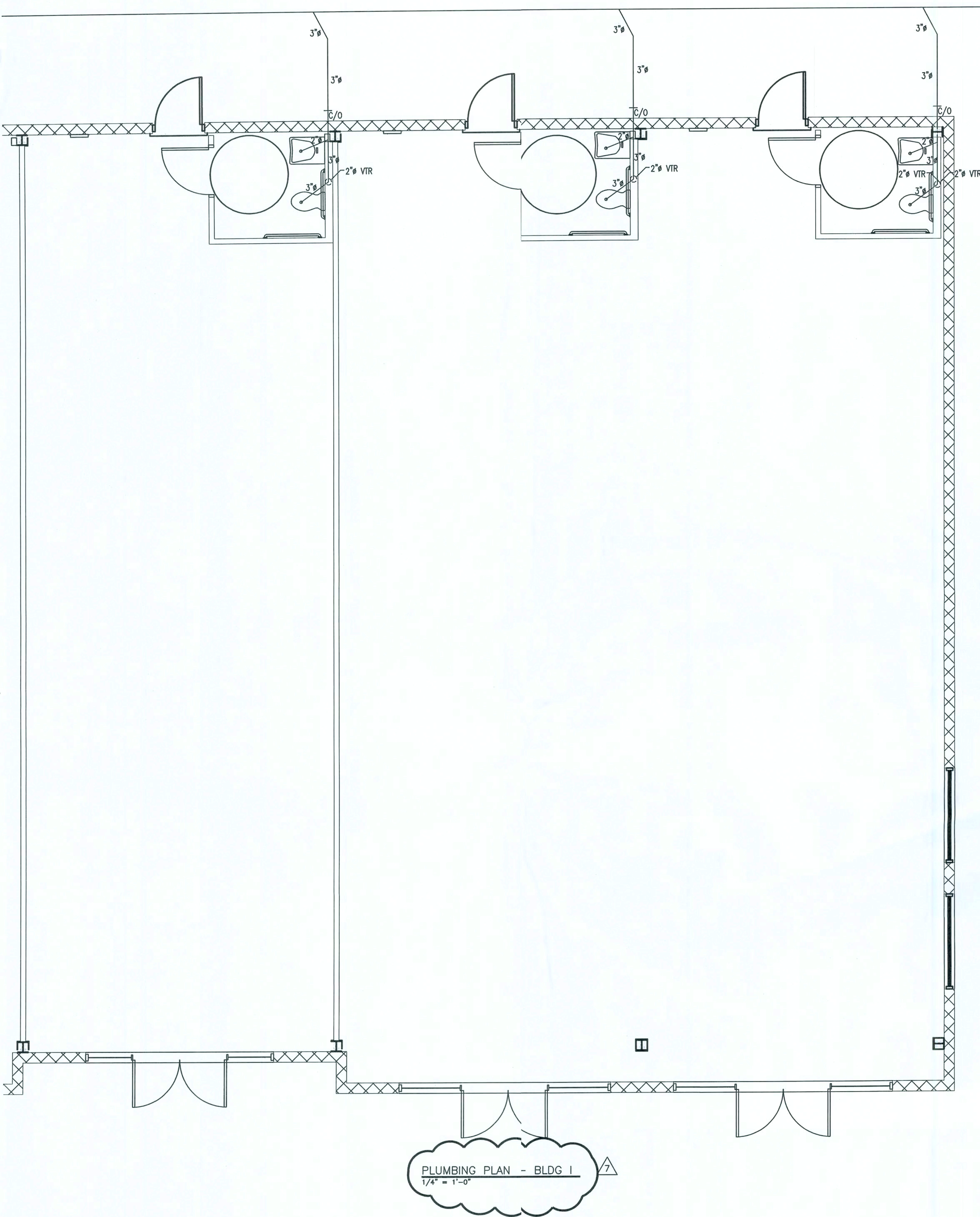
SHEET 22 OF 23

REVISION NOTES		DATE	###
B	ISSUED FOR REVIEW	11-26-07	
0	ISSUED FOR CONSTRUCTION	12-03-07	
1	GEN. REV. PER CONTRACTOR	01-10-08	
1	GEN. REV. PER CONTRACTOR	01-23-08	

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Gary J. Gill, PE 51942
Auth. # 9461

STRUCTURAL/CIVIL ENGINEERS





SEE SHEETS P-1.0 AND P-2.0 FOR APPLICABLE NOTES AND DETAILS

LEGEND	
---	COLD WATER
---	HOT WATER
---	VENT
---	WASTE

REVISION NOTES	
REV. #	DATE
1	01-10-08
GEN. REV. PER CONTRACTOR	

SHOPS AT THE CROSSROADS
NEW STRIP MALL
LAKE CITY, FLORIDA

PLUMBING & WATER PLAN - BLDG I

PROJECT NUMBER
PF06-163-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

P-3.0

1/31/08