NEW FREE STANDING
RETAIL BUILDING

LAKE CITY PLACE
LAKE CITY, FL. 32055

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

31967
Mattress Firm
1403-50

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002521
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7255 • Fax 727 . 781 . 6623
• www.oliverarchitects.com •

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1-28-14

Joseph L. Oliveri, AIA
State of Florida
License #AR0014628

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: JDS
Job: 13-227
Sheet
T1

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE "FLORIDA BUILDING CODE," "FLORIDA PLUMBING CODE," "FLORIDA MECHANICAL CODE," "NATIONAL ELECTRICAL CODE," AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES, AND ALL AUTHORITIES HAVING JURISDICTION.
2. THE GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT EDITION OF THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201.
3. THE CONTRACTOR SHALL, UPON DISCOVERY, GIVE WRITTEN NOTICE TO THE ARCHITECT OF ANY MATERIALS, EQUIPMENT, OR DESIGN FEATURES WHICH HE BELIEVES TO BE INADEQUATE OR UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, OR RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE WORK, AND OF ANY NECESSARY ITEMS OR WORK OMITTED FROM THE DRAWINGS.
4. ALL SUBCONTRACTORS SHALL USE ONLY SKILLED CRAFTSMEN, EXPERIENCED IN THE WORK OF THEIR TRADE, TO ENSURE FIRST CLASS WORKMANSHIP. ANY WORK NOT EQUAL TO BEST TRADE STANDARDS SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. SHOULD ANY SUBCONTRACTOR REFUSE TO REMOVE AND REPLACE UNSATISFACTORY WORK, THE CONTRACTOR MAY REMOVE AND REPLACE IT, AND CHARGE THE COST TO THE SUBCONTRACTOR.
5. IT IS THE GENERAL CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF PEOPLE AND OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
6. ALL PRODUCTS AND PARTS SHALL FIT TOGETHER NEATLY, WITHOUT DAMAGE OR DISFIGUREMENT, EXCEPT FOR SPECIFIED CURVED SURFACES, ALL PRODUCTS AND PARTS SHALL BE CONSTRUCTED/ FABRICATED AND INSTALLED TRUE, IN LINE, AND PLUMB. ALL NON CONFORMING WORK SHALL BE REJECTED AND RE-ACCOMPLISHED BY THE GERAL CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
7. ALL WORK SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED OF NEW COMPONENTS.
8. ALL BIDS SHALL BE PREPARED FROM A COMPLETE SET OF CONSTRUCTION DOCUMENTS. COMPLETE SETS OF DOCUMENTS SHALL NOT BE BROKEN UP FOR BID PURPOSES. SUCH ACTION MAY RESULT IN A LACK OF INFORMATION IN REFERENCE TO THE SCOPE OF WORK TO BE PERFORMED.
9. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PERSONALLY FIELD INSPECT THE PROJECT SITE PRIOR TO THE PREPARATION AND SUBMITTAL OF HIS B. THIS INSPECTION IS REQUIRED SO THAT THE CONTRACTOR SHALL BE TOTALLY FAMILIAR WITH THE EXISTING CONDITIONS AND THEIR INTERFACE WITH THE NEW CONSTRUCTIONS DEFINED IN THESE CONSTRUCTION DOCUMENTS.
10. UNLESS OTHERWISE SPECIFIED, THE G.C. SHALL FURNISH A WRITTEN GUARANTEE FOR L WORK (EQUIPMENT, MATERIALS, AND LABOR); AGAINST ANY DEFECTS IN SAID WORKOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, WITH ALL APPROPRIATE REPAIRS OR REPLACEMENTS AT NO ADDITIONAL COST TO THE OWNE
11. IT SHALL BE THE RESPONSIBILITY OF THE G.C. AND/OR CONTRACTORS TO COMPLY H ALL THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 THE U.S. DEPARTMENT OF LABOR, AND REQUIRE ALL ITS SUBCONTRACTORS AND EMPLOYEES TO COMPLY WITH THIS LAW, AND ANY RELATED STATE OR LOCAL LAWS
12. THE DATA GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECUR. THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED, AND THE G.C. SHALL OBTAIN EXA LOCATIONS, MEASUREMENTS, LEVELS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE BUILDING. DO NOT SCALE PLTS. VERIFY ALL DIMENSIONS WITH THE ARCHITECT PRIOR TO COMMENCING WORK.
13. THESE DOCUMENTS AND THE INFORMATION CONTAINED HEREIN SHALL NOT BE ALTERED IN ANYWAY BY THE CONTRACTOR OR THE OWNER. ALTERATIONS SHALL BE MADE ONLY BY THE ARCHITECT OF RECORD.

CONSTRUCTION NOTES

1. INTERIOR FINISH MATERIALS APPLIED TO WALL AND CEILING SHALL BE IN ACCORDANCE WITH ASTM E84. ALL FINISH MATERIALS SHALL MEET A CLASS "B" INTERIOR FINISH RATING IN EXIT AND EXIT ACCESS AREA. CLASS "C" ELSEWHERE.
2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR AND GLASS BELOW 18" AFF AND ALL GLAZING IN DOORS SHALL BE SAFETY GLASS, TEMPERED GLASS OR ACRYLIC PLASTIC SHEET. PER FBC-2406.1
4. OBJECTS PROTRUDING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. OBJECTS MOUNTED AT OR BELOW 27" ABOVE FINISHED FLOOR MAY NOT PROTRUDE ANY AMOUNT. FREE STANDING OBJECTS MOUNTED ON POST OR PYLONS MAY OVERHANG 12". PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
5. PROVIDE DEADWOOD BLOCKING WITHIN WALL CAVITIES AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, WALL MOUNTED CABINETRY, FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, GRAB BARS, WALL STOPS, ETC. 18GA GALV. FLAT METAL MAY BE USED IN LOCATIONS APPROVED BY ARCHITECT.
6. PROVIDE AND INSTALL PORTABLE FIRE EXTINGUISHERS AS SHOWN IN THESE DOCUMENTS OR AS OTHERWISE DIRECTED BY THE LOCAL FIRE MARSHAL.

SYMBOL LEGEND

- BUILDING SECTION SYMBOL
- WALL SECTION SYMBOL
- DETAIL SYMBOL
- DETAIL SYMBOL
- ELEVATION MARK (0'-0" FFE, TOP OF SLAB)
- INTERIOR ELEVATION MARK
- KEYED DRAWING NOTES
- DOOR NUMBER SYMBOL
- ROOM NUMBER SYMBOL
- WINDOW SYMBOL
- REVISION
- WALL TYPES
- KEY PLAN SECTION SYMBOL

BUILDING CODE INFORMATION

APPLICABLE CODES & STANDARDS:

THE FLORIDA BUILDING CODE, 2010 EDITION
- BUILDING
- PLUMBING
- MECHANICAL
- ELECTRICAL

- 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION

FLORIDA FIRE PREVENTION CODE 2010 EDITION
NFPA 101 LIFE SAFETY CODE FLORIDA EDITION
NATIONAL ELECTRICAL CODE 2009 EDITION
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY CLASSIFICATION:

FBC - BUILDING, CHAPTER 3
SECTION 309: MERCANTILE - GROUP M

HEIGHT AND BUILDING AREA:

FBC - BUILDING, CHAPTER 5: TYPE V-B, UNSPRINKLERED
AREA MODIFICATION FOR FRONTAGE INCREASE - 506.2 @ 25%
AREA MODIFICATION FOR AUTOMATIC SPRINKLER SYSTEM - 506.3 @ 25%

TABLE 503: HEIGHT AND BUILDING AREA

	ALLOWED	PROVIDED
MAXIMUM BUILDING HEIGHT	40'	23'-4"
MAXIMUM STORIES	1	1
AREA PER FLOOR	9,000 SF	4,503 SF

CONSTRUCTION TYPE:

FBC - BUILDING, CHAPTER 6
TABLE 601 - FIRE RESISTANCE RATING FOR BUILDING ELEMENTS

	REQ'D	PROVIDED
STRUCTURAL FRAME INCLUDING BEAMS, COLUMNS, GIRDERS, TRUSSES	0 HR	0 HR
BEARING WALLS, EXTERIOR	0 HR	0 HR
BEARING WALLS, INTERIOR	0 HR	0 HR
NONBEARING WALLS, INTERIOR	0 HR	0 HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0 HR	0 HR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0 HR	0 HR

TABLE 602 - FIRE RESISTANCE RATING FOR EXTERIOR WALLS BEARING AND NON BEARING BASED ON FIRE SEPARATION DISTANCE

LESS THAN 5'	1 HR	N/A
5' TO 10'	1 HR	1 HR
10' TO 20'	0 HR	N/A
20' TO 30'	0 HR	N/A
30' AND OVER	0 HR	0 HR

FIRE RESISTANCE

FBC - BUILDING, CHAPTER 7

FIRE BARRIER	REQ'D ASSEMBLY	OPENING PROTECTION (TABLE 715.4)
FIRE WALL - 706.1 AND TABLE 706.4	N/A	-
SHAFT / EXIT ENCLOSURES - 708.4 / 1018.1 LESS THAN 4 STORIES	N/A	-
OCCUPANCY SEPARATION - 707.3.8 / 508	N/A	-
TENANT SEPARATION - 708.1	N/A	-
EXIT PASSAGEWAY - 707.3.3 / 1027	N/A	-
HORIZONTAL EXIT - 707.3.4 / 1023.1	N/A	-
SINGLE OCCUPANCY FIRE AREA - 707.3.9	N/A	-
CORRIDORS (OCCUPANT LOAD > 30) - 1018.1 (UNSPRINKLERED)	N/A	-

MEANS OF EGRESS:

FBC - BUILDING, CHAPTER 10
MAXIMUM FLOOR AREA PER OCCUPANT 30 SF
TABLE 1004.1.1: 4,503 SF 151 PERSONS

EGRESS WIDTH PER OCCUPANT - TABLE 1005.1
151 x .02 = 302"

	ALLOW	PROVIDED
MIN. CLEAR DOOR OPENING - 1008.1.1	32"	≥ 34"
MIN. CLEAR STAIR WIDTH - 1009.1	44"	≥ 48"
COMMON PATH OF TRAVEL - 1014.3	75 FT	< 75 FT
EXIT ACCESS TRAVEL DIST. - TABLE 1016.1	150 FT	< 150 FT
MIN. CORRIDOR WIDTH - 1018.2	44"	≥ 44"
DEAD END CORRIDOR - 1018.4	20 FT	< 20 FT
MIN. NUMBER OF EXITS - 1021.1 / 1021.2	2	3

NUMBER AND SIZE OF EXITS

DOUBLE ENTRANCE DOORS		68" x 1 + 68"
TENANT EXIT DOORS		46" x 1 + 46"
TOTAL EXIT WIDTH (FIRST FLR)		114"
STAIRS FROM SECOND FLOOR		
SPACES WITH SINGLE EXIT - TABLE 1015.1 / 1021.2	N/A	-

INTERIOR FINISHES:

FBC - BUILDING, CHAPTER 8 MERCANTILE - GROUP M (UNSPRINKLERED)
INTERIOR WALL AND CEILING FINISH REQUIREMENTS - TABLE 803.9
VERTICAL EXITS AND EXIT PASSAGEWAYS: CLASS A
EXIT ACCESS CORRIDORS / EXITWAYS: CLASS B
ROOMS AND ENCLOSED SPACES: CLASS C

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84.

SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C 635 AND ASTM C 636.

MATERIAL, OTHER THAN FOAM PLASTIC USED AS INTERIOR TRIM SHALL HAVE A MINIMUM CLASS C FLAME SPREAD AND SMOKE-DEVELOPED INDEX WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

12"
INTERIOR WALL SURFACES WITHIN (2) TWO FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF (4) FOUR FEET ABOVE THE FINISHED FLOOR MINIMUM. THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE.

PROJECT SCOPE

CONSTRUCTION OF A SINGLE STORY FREE STANDING RETAIL BUILDING.

SITE DEVELOPMENT DRAWINGS ARE SUBMITTED UNDER A SEPARATE COVER.

PROJECT TEAM

ARCHITECT
OLIVERI ARCHITECTS
32707 U.S. HWY 19
PALM HARBOR, FLORIDA 34684
727-781-7525

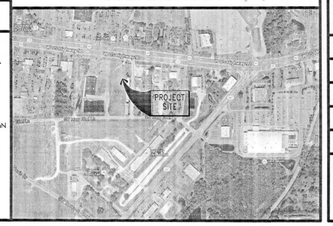
STRUCTURAL
HUNTER STRUCTURAL, PA
1900B ABBOTT STREET, SUITE 103
CHARLOTTE, NORTH CAROLINA 28203
704-442-7260

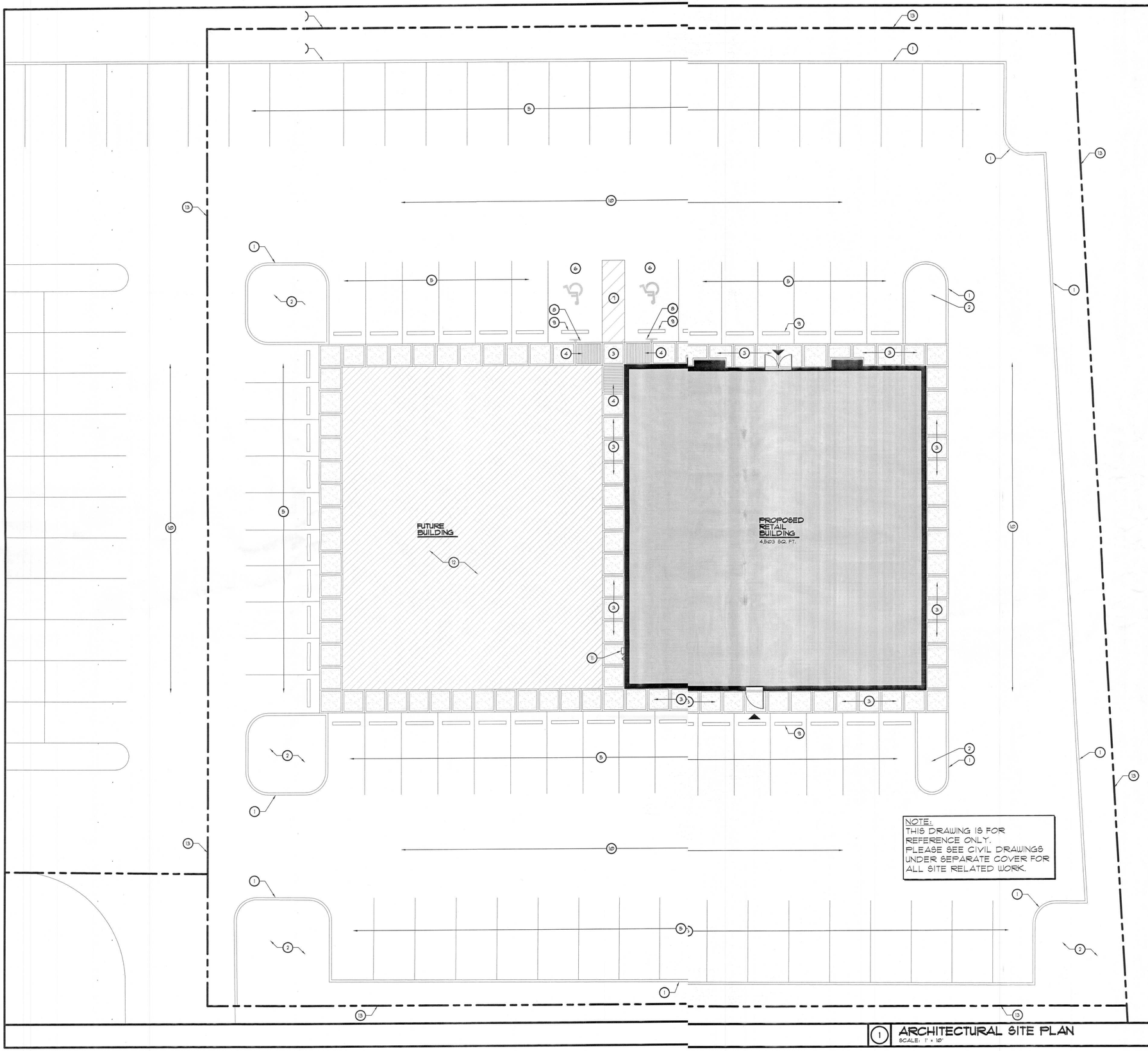
PLUMBING / MECHANICAL
MDCI FLORIDA INC.
4125 2ND STREET SOUTH, SUITE B
SAFETY HARBOR, FLORIDA 34695
727-698-0398

ELECTRICAL
ELECTRICAL CONSULTING AND DESIGN
5225 ULMERTON ROAD, SUITE G
LARGO, FLORIDA 33771
727-581-4378

INDEX OF DRAWINGS

LOCATION MAP





1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 10'

GENERAL NOTES

1. NEW CONCRETE CURB
2. NEW LANDSCAPE AREA
3. NEW CONCRETE SIDEWALK
4. NEW CONCRETE RAMP AT 1:12 SLOPE MAX.
5. NEW STANDARD PARKING SPACE
6. NEW HANDICAP PARKING SPACE
7. NEW HANDICAP PARKING LOADING ZONE
8. NEW HANDICAP SIGN
9. NEW CONCRETE WHEEL STOP
10. NEW ASPHALT DRIVE
11. NEW ELECTRICAL SERVICE / METER - SEE ELECTRICAL DRAWINGS.
12. FUTURE BUILDING - NO WORK THIS AREA.
13. PROPERTY LINE - SEE CIVIL DRAWINGS.

SITE LEGEND

▲ BUILDING ENTRANCE/ EXIT.

GENERAL NOTES

1. SEE CIVIL DRAWINGS SUBMITTED UNDER SEPARATE PACKAGE FOR SITE DETAILS.
2. GENERAL CONTRACTOR TO INSPECT SITE AND NOTIFY ARCHITECT WITH ANY DISCREPANCIES UPON DISCOVERY PRIOR TO COMMENCEMENT OF WORK.

REVISIONS	BY

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AA 0002021
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliverlarchitects.com •

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JAN 28 2014

Joseph L. Oliveri, AIA
State of Florida
License: AR0014085

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date:	01. 28. 14
Scale:	AS NOTED
Project Mgr:	AAY
Drawn:	JDS
Job:	13-227
Sheet	AS1

Design No. U418

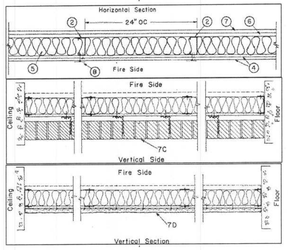
December 10, 2013

(Exposed to Fire on Interior Face Only)

Bearing Wall Rating — 45 Min., 1 or 2 HR.

(See Item 4)

Load Restricted for Canadian Applications — See Guide BXUV7



1. **Floor and ceiling tracks —** Channel shaped, 3-5/8 in. or 5-5/8 in. wide with 1-1/2 in. flanges. Fabricated from No. 18 GSG galv steel. Attached to floor and ceiling with fasteners spaced 24 in. O.C.

2. **Steel Studs —** C-shaped, fabricated from min No. 18 GSG (0.051 in. thick) galv steel, 3-1/2 in. or 5-1/2 in. wide with 1-1/2 in. flanges and 1/2 in. returns (stiffening flanges.) Min yield strength 40,000 psi. See Ill. 12 of Report R7760-1, -2 dated Dec. 11, 1975 or Ill. 15 of Report R7760-3, -4 dated Aug. 23, 1976 for tables containing max allowable axial loads. Report Ills. available from U. S. Steel Corp., Rm. 1846, 600 Grant St., Pittsburgh, PA 15230.

3. **Steel Strapping —** Flat stock, 2 in. wide, fabricated from No. 18 GSG galv steel. Located horizontally and attached to both sides of the studs at the third points using one No. 6-20 by 1/2 in. self-drilling steel screw at each intersection.

4. **Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Gypsum board with beveled, square, or tapered edges. The thickness, number of layers and method of attachment of the wallboard for the 2 Hr, 1 Hr, and 45 Min ratings are: **2 Hr Rating** — Three layers of 1/2 in. thick gypsum board applied vertically. Inner layer attached to the studs and tracks with 1 in. long, 0.142 in. diam, Type S-12 bugle head screws spaced 12 in. O.C. Middle layer attached to the inner layer of gypsum board with 1-1/2 in. long, 0.210 in. diam, Type G bugle head screws spaced 12 in. OC and to the end studs with 1-7/8 in. long, 0.118 in. diam, Type S-12 bugle head screws spaced 12 in. OC. Outer layer attached to studs and tracks with 1-7/8 in. long, 0.118 in. diam, Type S-12 bugle head screws spaced 12 in. OC and into the gypsum board with 1-1/2 in. long 0.210 in. diam Type G screws spaced 12 in. OC. Middle layer of wallboard edge joints staggered 2 ft from joints of inner and lower layer. **1 Hr Rating** — Two layers of 1/2 in. thick gypsum board applied horizontally or vertically. Inner layer attached to studs and tracks with 1 in. long, 0.142 in. diam Type S-12 bugle head screws spaced 12 in. OC beginning 6 in. from the edge. Outer layer attached to the studs and tracks with 1-5/8 in. long, 0.142 in. diam, Type S-12 bugle head screws spaced 12 in. OC beginning 1 in. from the edge. In addition, the outer layer to be attached to the inner layer at the joints with 1-1/2 in. long, 0.210 in. diam Type G bugle head screws spaced 24 in. OC located between studs. **45 Min Rating** — One layer of 5/8 in. thick gypsum board applied horizontally or vertically unless specified below. Attached to studs and tracks with 1 in. long, 0.142 in. diam Type S-12 bugle head screws spaced 12 in. OC beginning 6 in. from edges.

When used in widths other than 48 in., gypsum board to be installed horizontally.

ACADIA DRYWALL SUPPLIES LTD Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R25370

AMERICAN GYPSUM CO Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R19374

CERTAINTEED GYPSUM CANADA INC Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R15187

CERTAINTEED GYPSUM INC Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R3660

CGC INC Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R19751

GEORGIA-PACIFIC GYPSUM L L C Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R2717

LAFARGE NORTH AMERICA INC Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R18482

LOADMASTER SYSTEMS INC Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R11809

NATIONAL GYPSUM CO Subscrbr. ID+and+CKNX*+CCN*(View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R7094

PANEL REY S A Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R1319

USG MEXICO S A DE C V Subscrbr ID+and+CKNX*+CCN*(View Classification) — CKNX.R16089

4A. **Gypsum Board* —** (As an alternate to Item 4) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 4.

CERTAINTEED GYPSUM INC — Type SilentFX

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

4B. **Gypsum Board* —** (As an alternate to Items 4 through 4A) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

4C. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4B) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

5. **Batts and Blankets* —** 3-1/2 in. thick, 2 ft wide, glass fiber batts. Inserted between each stud to fill the wall cavity.

CERTAINTEED CORP

JOHNS MANVILLE INTERNATIONAL INC

KNAUF INSULATION GMBH

MANSON INSULATION INC

OWENS CORNING

6. **Gypsum Sheathing —** One layer of nominal 1/2 in. thick exterior sheathing, applied vertically and secured to the studs and runner tracks with 1 in. long, 0.142 in. diam, Type S-12 bugle head screws spaced 12 in. OC along the studs and the runner tracks.

7. **Exterior Facings —**

7A. **Aluminum Siding —** Horizontal lap type 9 in. wide fabricated from 0.019 in. thick or 0.024 in. thick painted aluminum. Interior face of 0.019 in. thick siding lined with 3/8 in. thick unbonded insulation material. Attached to the studs with 1-7/8 in. long, 0.118 in. diam steel screws spaced 9 in. OC along the studs. A starter strip to be fastened to floor runner with 0.118 in. diam screws spaced 12 in. OC.

7B. **Steel Siding —** Same description as above (No. 17 GSG) gauge 0.017 in. thick.

7C. **Brick Veneer —** Any type 4 in. wide brick. Metal ties used as every fourth course spaced 24 in. OC horizontally. Fastened to steel studs through gypsum sheathing with one No. 6-20 steel screw per tie. One inch air space provided between veneer and gypsum sheathing.

7D. **Stucco —** Portland cement type — 3/4 in. min thickness. Metal lath or mesh base attached to studs with No. 6-20 steel screws. "T-Nails," or staples approved by local building codes. Spaced 6 in. OC max and driven through gypsum sheathing.

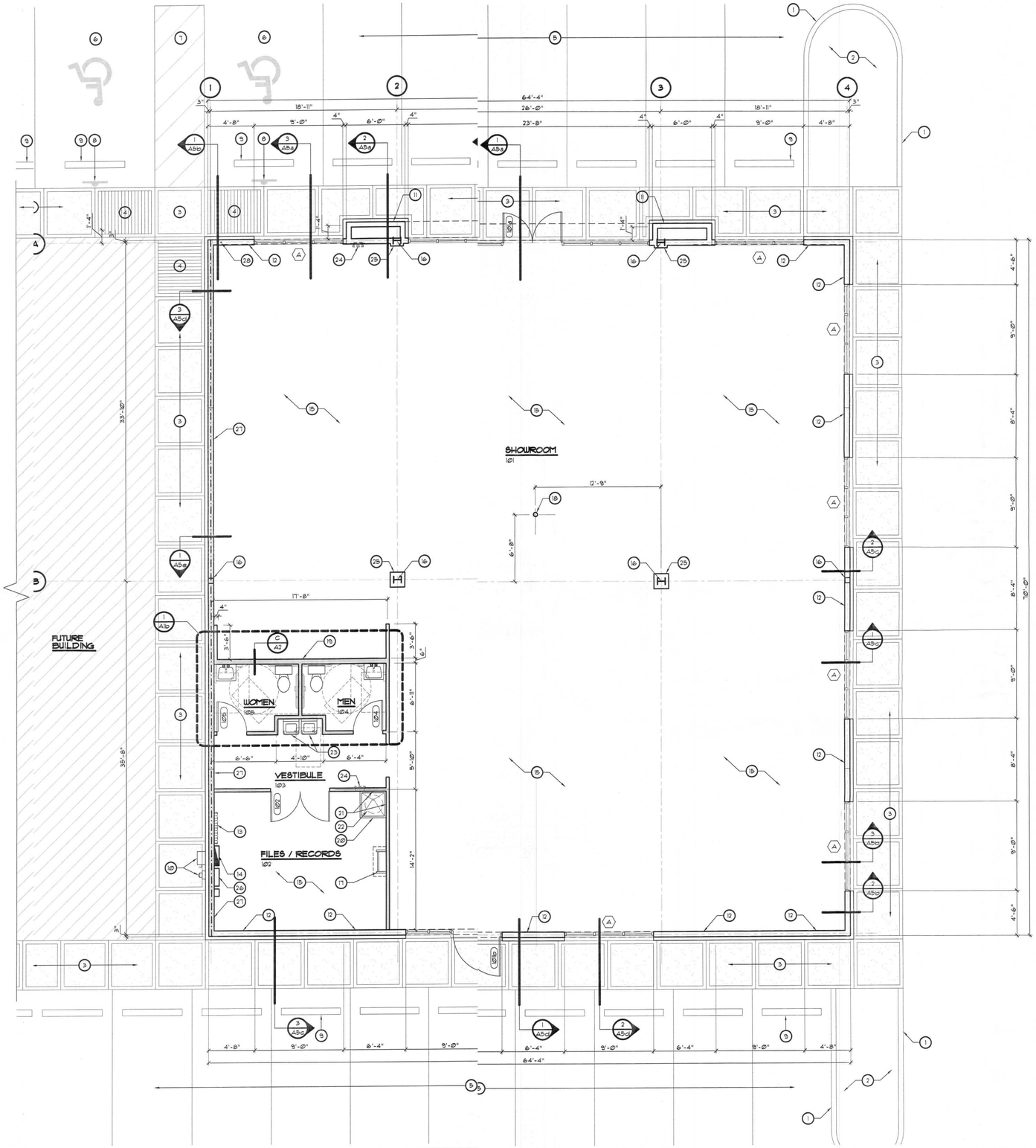
7E. **Fiber-Cement Siding —** (Not Shown) — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

7F. **Building Units* —** (Not Shown) - 3 in. thick 18 x 24 in. cellular glass blocks, applied to the gypsum sheathing (Item 6) with PC 88 adhesive or fastened with F anchors spaced a maximum 24 in. OC. F anchors fastened to framing members with 1-1/4 in. long #6 drywall screws.

PITTSBURGH CORNING CORP — Type FoamGlas

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints.

(A) UL DESIGN NO. U418
SCALE: N/A



(1) FLOOR PLAN
SCALE: 3/16" = 1'-0"

SQ. FT. 4503

WALL LEGEND

- DOOR SYSTEM - REFER TO DOOR SCHEDULE
- WINDOW SYSTEM - REFER TO WINDOW SCHEDULE
- METAL STUD PARTITION - REFER TO TYPICAL NON-RATED WALL PARTITION DETAIL E/A1b.
- METAL STUD SOUND INSULATED PARTITION - REFER TO TYPICAL WALL PARTITION DETAIL E/A1b.
- EXTERIOR WALL SYSTEM - SEE WALL SECTIONS, SHEETS A9a AND A9b.
- ONE (1) HOUR RATED EXTERIOR WALL SYSTEM - SEE WALL SECTION 1/A9b AND DETAIL A/A1a.

KEYED NOTES

1. NEW CONCRETE CURB
2. NEW LANDSCAPE AREA
3. NEW CONCRETE SIDEWALK
4. NEW CONCRETE RAMP AT 1:12 SLOPE MAX.
5. NEW STANDARD PARKING SPACE
6. NEW HANDICAP PARKING SPACE
7. NEW HANDICAP PARKING LOADING ZONE
8. NEW HANDICAP SIGN
9. NEW CONCRETE WHEEL STOP
10. NEW ELECTRICAL SERVICE / METER - SEE ELECTRICAL DRAWINGS.
11. EXTERIOR FRAMED MONOLITH WITH SPLIT FACE BLOCK - SEE WALL SECTIONS AND STRUCTURAL DRAWINGS.
12. EXTERIOR FRAMED WALL SYSTEM - SEE WALL SECTIONS AND STRUCTURAL DRAWINGS.
13. NEW PHONE BOARD - SEE ELECTRICAL DRAWINGS.
14. NEW ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS
15. NEW 4" THICK CONCRETE SLAB - SEE STRUCTURAL DRAWINGS.
16. NEW STRUCTURAL COLUMN - SEE STRUCTURAL DRAWINGS.
17. ROOF ACCESS LADDER WITH ROOF HATCH. SEE DETAIL D/A3.
18. LOCATION OF ELECTRICAL, POWER AND DATA CONDUIT STUB-UP FOR FUTURE TENANT USE - SEE FOUNDATION PLAN FOR LOCATION AND ELECTRICAL DRAWINGS.
19. PROVIDE WOOD BLOCKING - SEE DETAIL C/A2.
20. FLOOR SINK - SEE PLUMBING DRAWINGS.
21. PROVIDE FRP-1 OVER GWB. FROM TOP OF FLOOR SINK TO 4'-6" A.F.F. ENTIRE LIMITS OF FLOOR SINK. MARLITE PEBBLED WHITE.
22. WATER HEATER ON SHELF. MOUNT AT 7'-0" A.F.F. - SEE PLUMBING DRAWINGS.
23. HI-LO DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS.
24. FIRE EXTINGUISHER - SEE DETAIL D/A1b
25. BOX OUT AROUND STRUCTURAL COLUMN WITH 1/2" GWB. ON METAL STUD FRAMING AS REQUIRED. KEEP SIZE TO MINIMUM.
26. LIGHTING CONTROL PANEL - SEE ELECTRICAL DRAWINGS.
27. ONE (1) HOUR RATED EXTERIOR FRAMED WALL SYSTEM - SEE WALL SECTIONS AND STRUCTURAL DRAWINGS AND DETAIL A/A1a.
28. DOMESTIC WATER RISER - SEE PLUMBING DRAWINGS.

GENERAL NOTES

1. REFER TO ARCHITECTURAL AND CIVIL SITE PLANS FOR ADDITIONAL SITE INFORMATION
2. SEE DETAIL D/A2 FOR TYPICAL DOOR MANEUVERING CLEARANCE REQUIREMENTS.
3. PREPARE CONCRETE SLAB AND ALL GWB. TO RECEIVE NEW FUTURE FINISHES.
4. ALL INTERIOR WALLS ARE 4" NOMINAL AND EXTERIOR WALLS ARE 6" UNLESS NOTED OTHERWISE.
5. ALL 4" WALLS ARE DIMENSIONED TO CENTERLINE OF TRACK AND 6" WALLS ARE DIMENSIONED TO FACE OF TRACK.

REVISIONS	BY

OLIVERI ARCHITECTS
LICENSED AA XXX XL
AA-0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliveriarchitects.com •

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JAN 28 2014
Joseph L. Oliveri, AIA
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New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: DC
Job: 13-227

Sheet
A1a

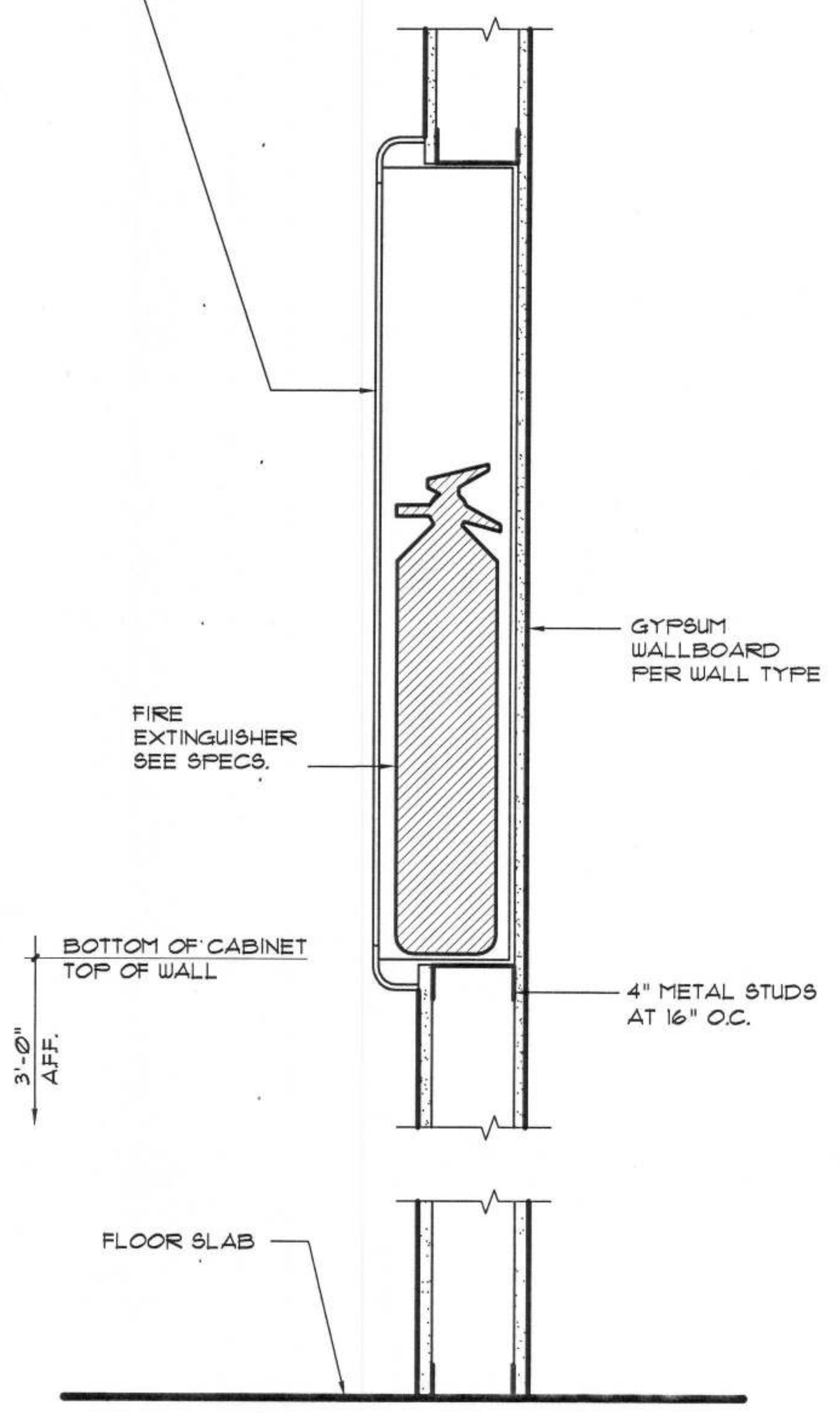
CABINET IN NON RATED WALL

MODEL NO. 1027F12 AS MANUFACTURED BY J.L. INDUSTRIES.

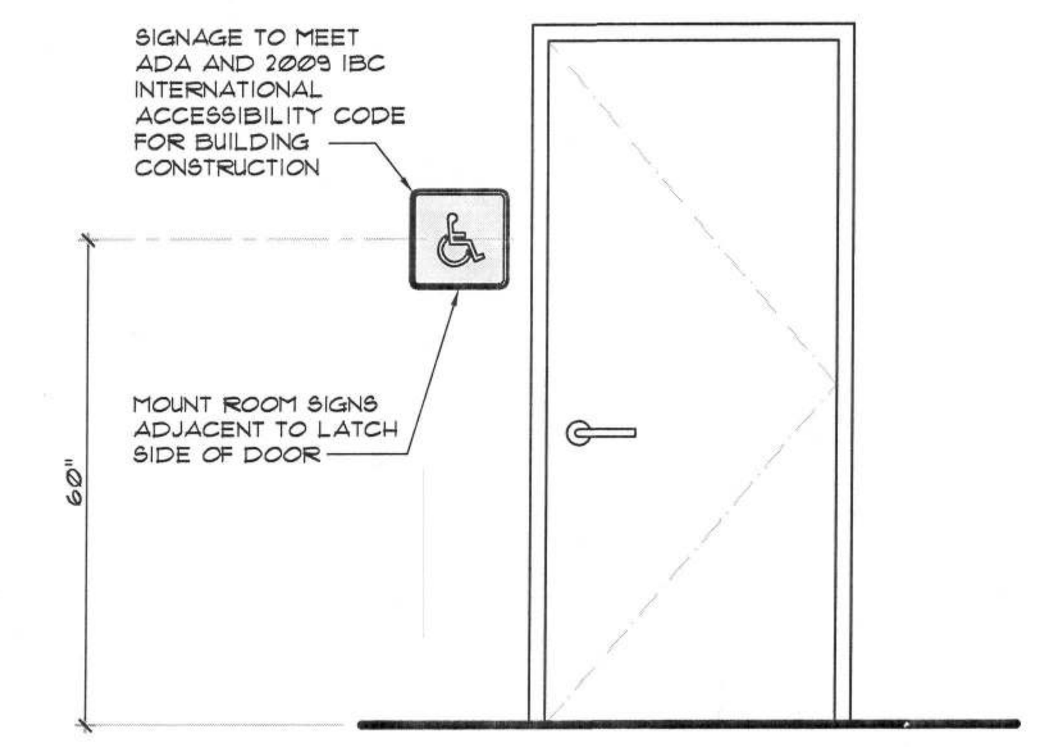
CABINET IN RATED WALL

MODEL NO. 1027F12 FX AS MANUFACTURED BY J.L. INDUSTRIES AT 6" WALLS

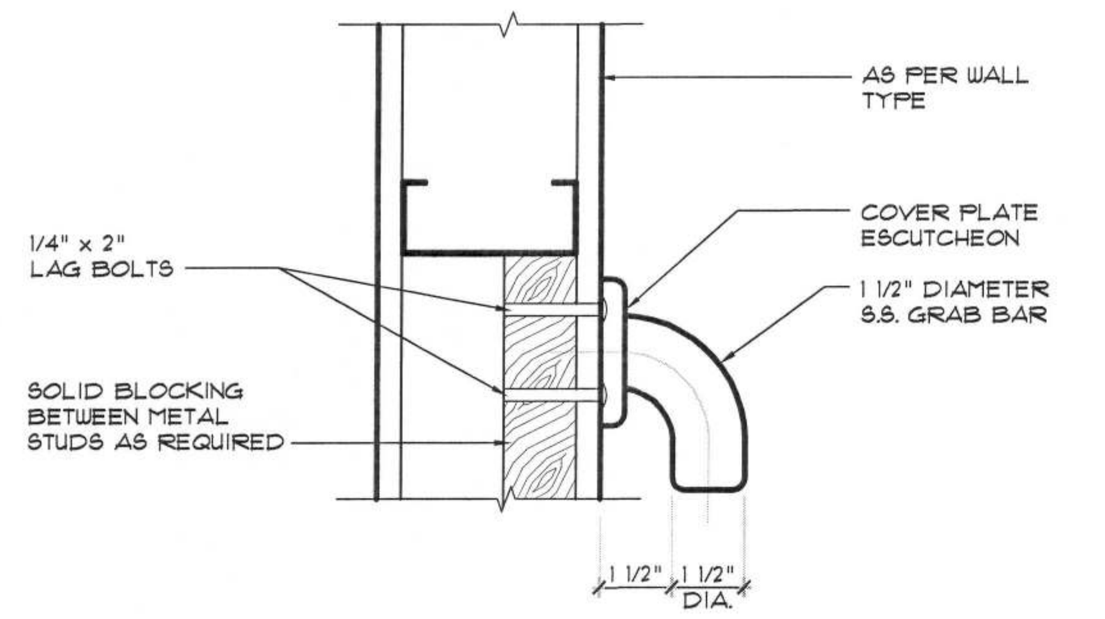
MODEL NO. 1022F12 FX AS MANUFACTURED BY J.L. INDUSTRIES AT 4" WALLS



D FIRE EXTINGUISHER CABINET
SCALE: 1 1/2" = 1'-0"

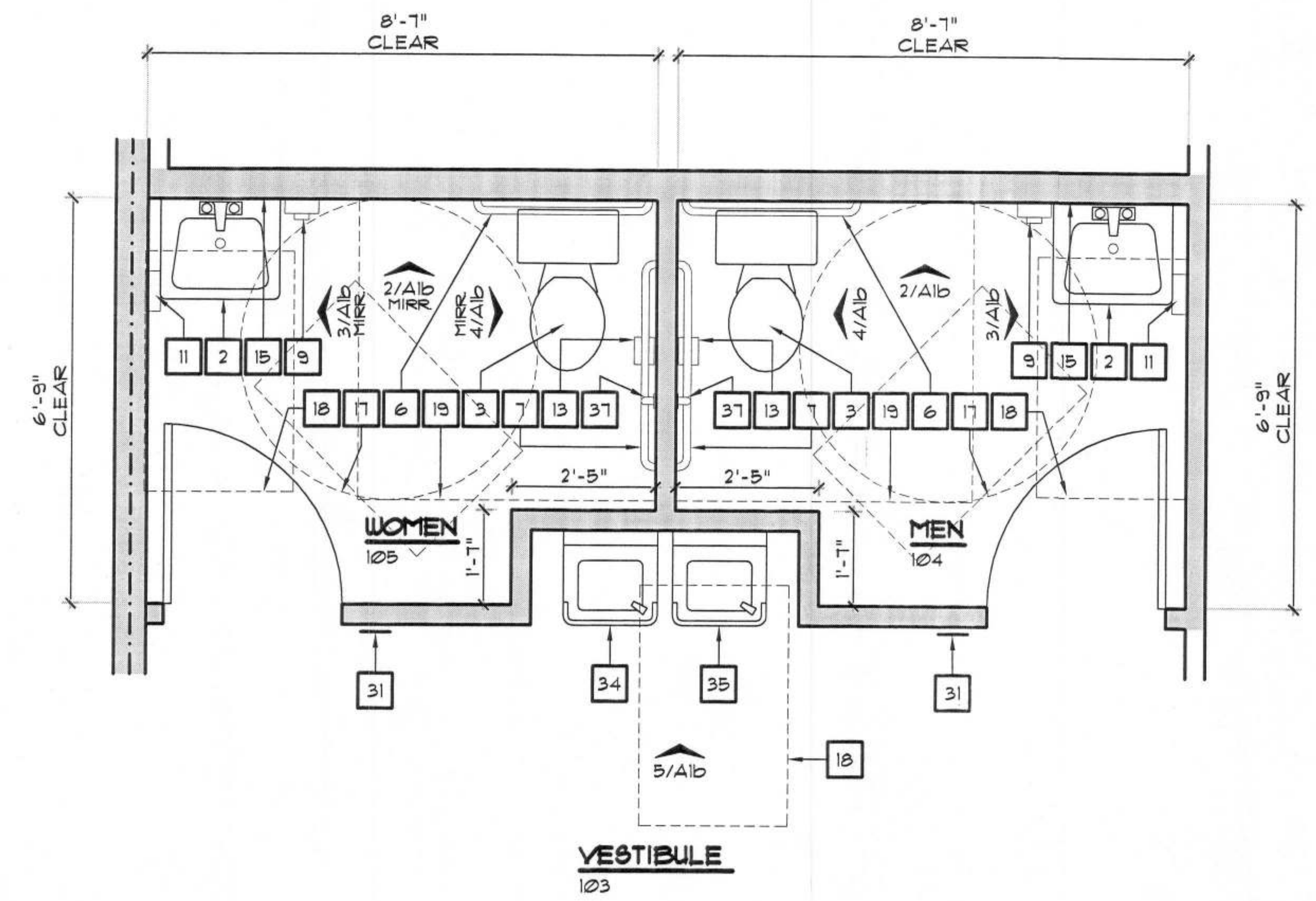


A H.C. SIGN MOUNTING DETAIL
SCALE: N.T.S.



NOTE:
ALL GRAB BARS INCLUDING THOSE MOUNTED AT TUBS, SHOWERS, AND TOILETS AND TOILET MOUNTED GRAB BARS SHALL BE DESIGNED AND SUPPORTED AS TO WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT DOWNWARD OR HORIZONTALLY AS REQUIRED BY THE 2009 INTERNATIONAL ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. (PROVIDE SUFFICIENT BLOCKING BEHIND EACH GRAB BAR INSTALLATION)

B GRAB BAR ANCHORING DETAIL
SCALE: 3" = 1'-0"



FINISHES:

FLOOR: STOREFLOORS - MIRABELLA - BEIGE
12" x 12" x 3/8" WITH LATICRETE GROUT
#17 MARBLE BEIGE

BASE: STOREFLOORS - MIRABELLA - BEIGE
6" x 12" x 3/8" WITH LATICRETE GROUT
#17 MARBLE BEIGE

WALLS: ICI DULUX PAINT - #2003 CIELO BLANCO (OFF-WHITE)
SATIN FINISH

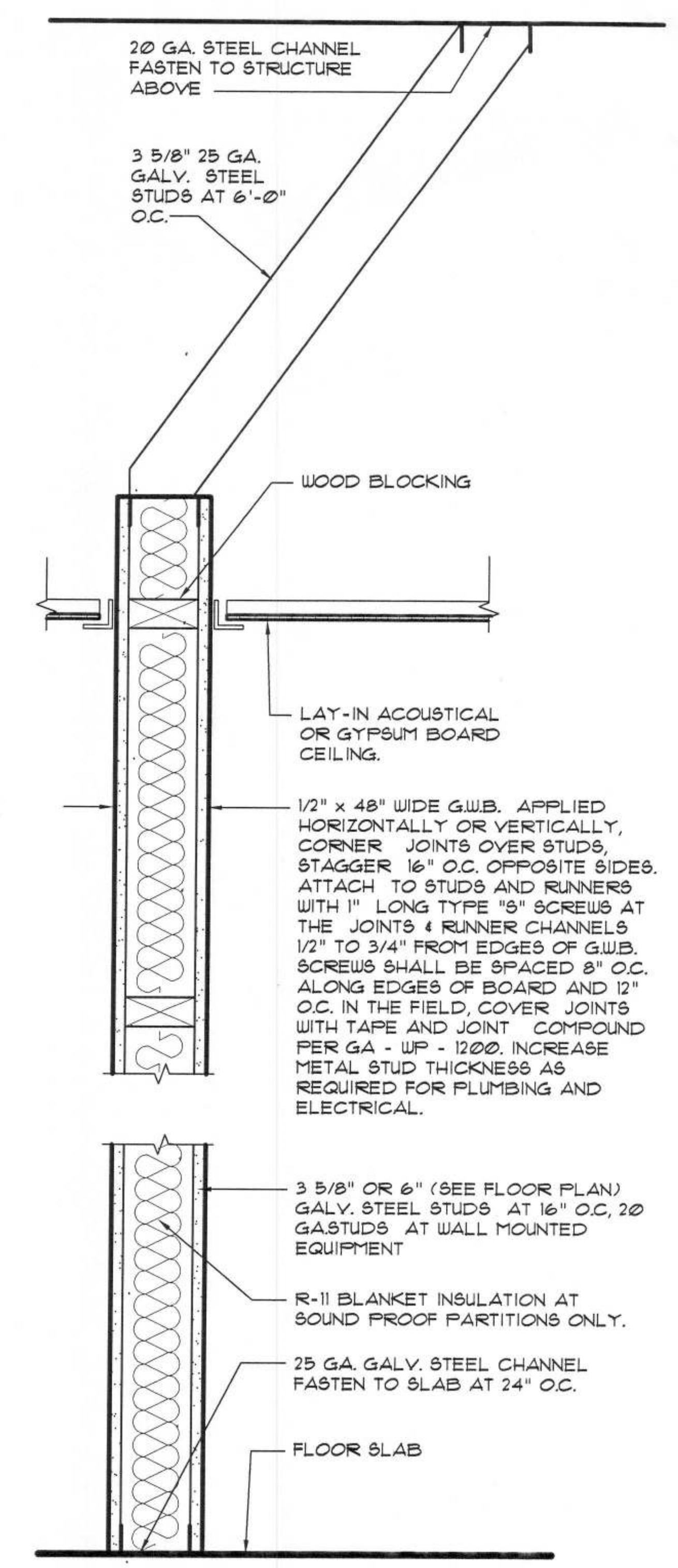
DOORS: ICI DULUX PAINT - #2003 CIELO BLANCO (OFF-WHITE)
SATIN FINISH
(ALL INTERIOR DOORS AND FRAMES)

NOTE:
COORDINATE INSTALLATION OF PLUMBING FIXTURES AND ACCESSORIES WITH TENANT'S IMPROVEMENTS PLANS / FINISHES

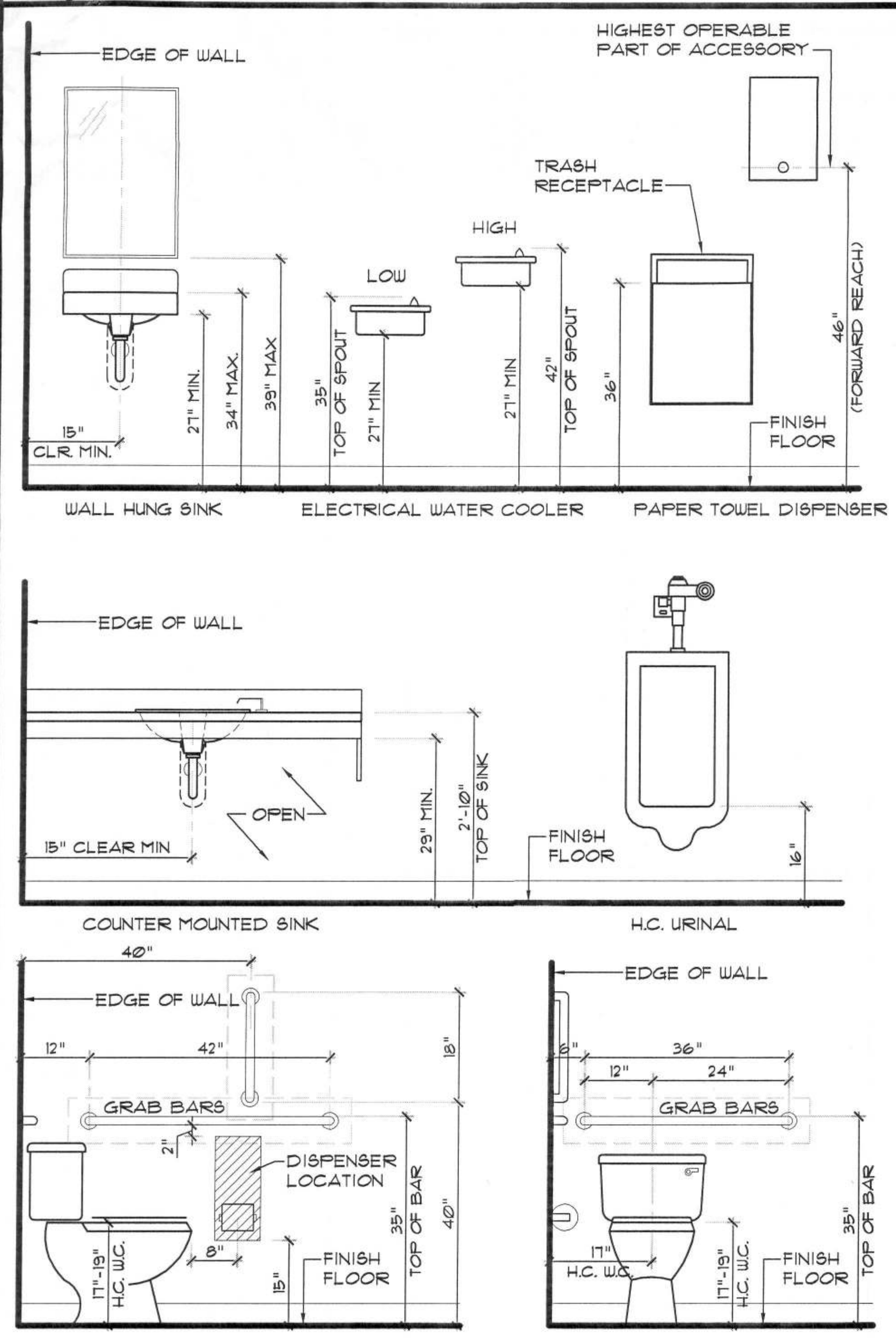
1 ENLARGED TOILET PLAN
SCALE: 3/8" = 1'-0"

KEYED NOTES

1	LAVATORY IN APRON TYPE VANITY - SEE DETAIL -/--
2	WALL HUNG LAVATORY - SEE PLUMBING DRAWINGS
3	H.C. WATER CLOSET - SEE PLUMBING DRAWINGS
4	STANDARD WATER CLOSET - SEE PLUMBING
5	URINAL - SEE PLUMBING
6	36" GRAB BAR - SEE DETAIL "B" THIS SHEET
7	42" GRAB BAR - SEE DETAIL "B" THIS SHEET
8	COUNTER MOUNTED SOAP DISPENSER
9	WALL MOUNTED SOAP DISPENSER
10	RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
11	SURFACE MOUNTED PAPER TOWEL DISPENSER
12	SEMI-RECESSED TOILET TISSUE DISPENSER
13	SURFACE MOUNTED TOILET TISSUE DISPENSER
14	WALL MOUNTED MIRROR FROM TOP OF SPLASH TO 6'-8" A.F.F. - MATCH WIDTH OF VANITY
15	WALL MOUNTED CHANNEL FRAMED MIRROR
16	PIPE INSULATION KIT
17	60" DIAMETER TURN AROUND
18	30" x 48" CLEAR FLOOR SPACE
19	60" x 60" CLEAR FLOOR SPACE
20	TOILET PARTITION
21	RECESSED FEMININE NAPKIN DISPENSER
22	SURFACE MOUNTED FEMININE NAPKIN DISPENSER
23	ELECTRIC HAND DRYER.
24	PREFAB SHOWER STALL
25	SHOWER STALL
26	MOP SINK/ FLOOR SINK.
27	WATER HEATER ON SHELF - SEE PLUMBING DRAWINGS
28	TOWEL BAR
29	TRASH RECEPTACLE
30	6" ⌀ HOLE WITH TRIM RING
31	HC SIGN - SEE DETAIL "A" THIS SHEET.
32	RECESSED DISPENSER TOILET-SEAT-COVER
33	RECESSED FACIAL TISSUE DISPENSER.
34	STANDARD ELECTRIC WATER COOLER - SEE PLUMBING DRAWINGS
35	H.C. ELECTRIC WATER COOLER - SEE PLUMBING DRAWINGS
36	PROVIDE BLOCKING AS REQUIRED - SEE DETAIL "B" THIS SHEET
37	18" VERTICAL GRAB BAR - SEE DETAIL "B" THIS SHEET

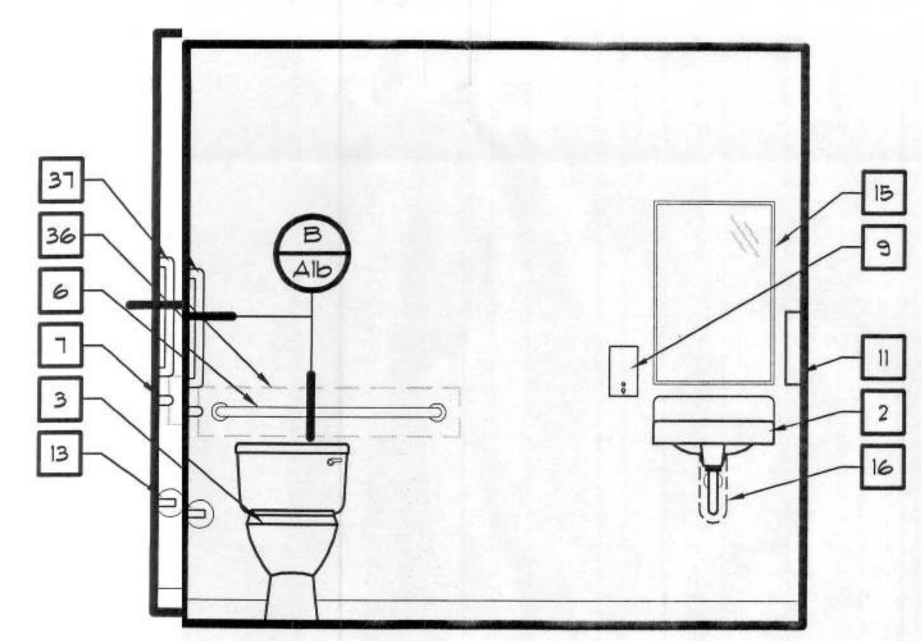


E NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"

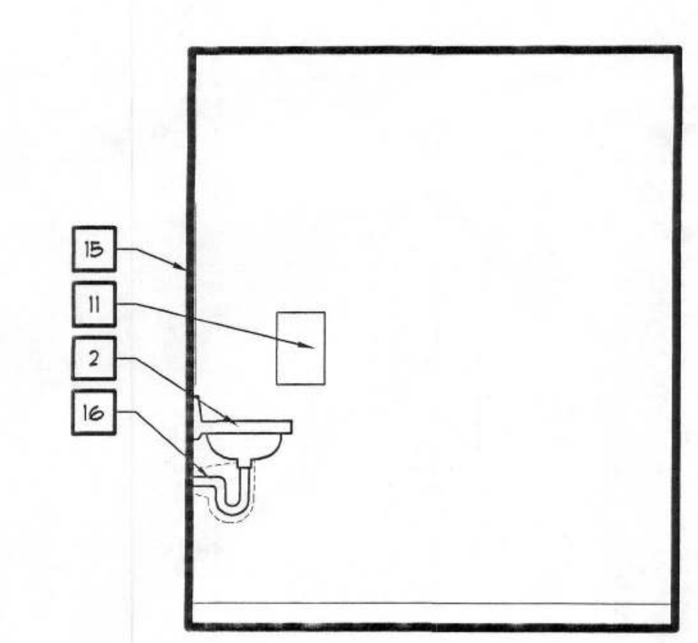


NOTE:
1. TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED
2. THE FLUSH VALVE MUST BE LOCATED ON THE APPROACH SIDE OF ANY ACCESSIBLE WATER CLOSET

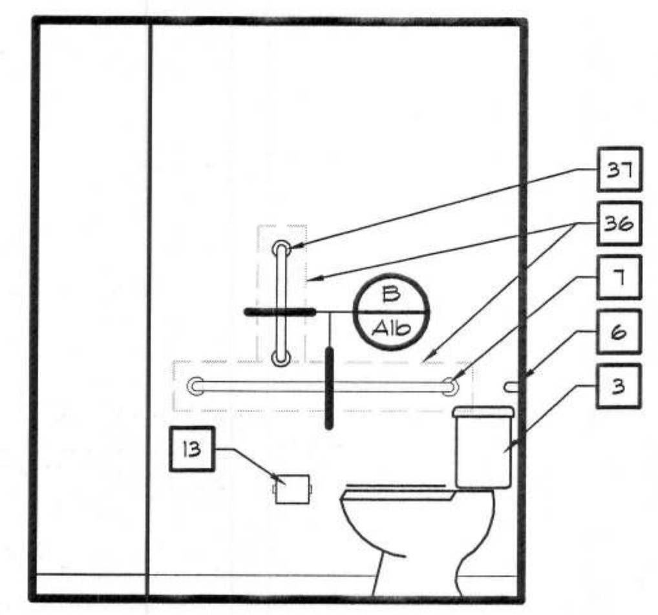
C TYPICAL MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



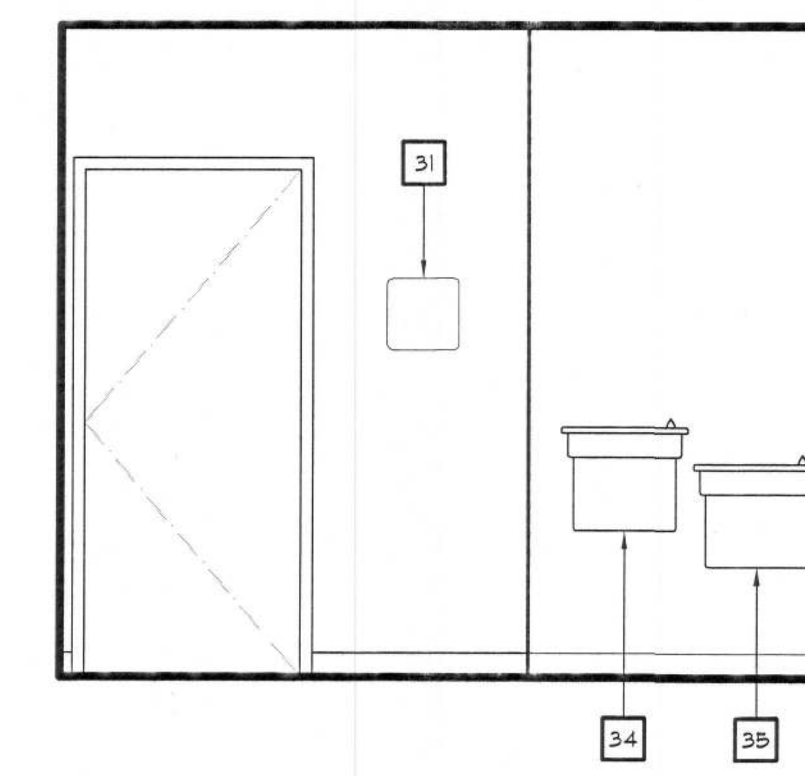
2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"
RM # 104, 105



3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"
RM # 104, 105



4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"
RM # 104, 105



5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"
RM # 103

TOILET ACCESSORIES

ACCESSORY	SPECIFICATION
SEMI-RECESSED TOILET TISSUE DISPENSER	BOBRICK B-667
SURFACE MOUNTED TOILET TISSUE DISPENSER	BOBRICK B-685
SEMI-RECESSED PAPER TOWEL DISPENSER	BOBRICK B-359
SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK B-262
36" GRAB BAR	BOBRICK B-6806 X 36 SATIN FINISH WITH SNAP FLANGE
42" GRAB BAR	BOBRICK B-6806 X 42 SATIN FINISH WITH SNAP FLANGE
WALL MOUNTED SOAP DISPENSER	BOBRICK B-155
COUNTER MOUNTED SOAP DISPENSER	BOBRICK B-8221
WALL MOUNTED MIRROR	BOBRICK B-165 1830
SURFACE MOUNTED TOUCH BUTTON HAND DRYER	BOBRICK B-7817 #300
RECESSED FEMININE NAPKIN DISPENSER	BOBRICK B-353
SURFACE MOUNTED FEMININE NAPKIN DISPENSER	BOBRICK B-270
RECESSED DISPENSER TOILET-SEAT-COVER	BOBRICK B-3013
RECESSED FACIAL TISSUE DISPENSER	BOBRICK B-355

GENERAL NOTES

1. FOR TYPICAL H.C. SIGN MOUNTING DETAIL, SEE DETAIL "A" THIS SHEET
2. FOR TYPICAL GRAB BAR ANCHORING DETAIL, SEE DETAIL "B" THIS SHEET
3. FOR TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS, SEE DETAIL "C" THIS SHEET
4. FOR CEILING HEIGHTS, SEE REFLECTED CEILING PLAN
5. SOME KEY NOTES AND ACCESSORIES DO NOT APPLY UNLESS REFERENCED IN THIS PROJECT
6. COORDINATE INSTALLATION OF PLUMBING FIXTURES AND ACCESSORIES WITH TENANT'S IMPROVEMENTS PLANS / FINISHES

REVISIONS	BY

OLIVERI ARCHITECTS
AA-0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliveriarchitects.com •

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[illegible]
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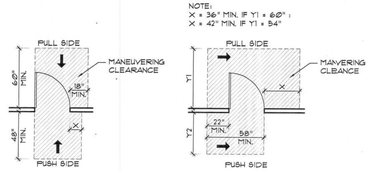
New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: G.T.
Job: 13–227
Sheet
A1b



NOTE:
X = 12" MIN. IF THE DOOR HAS BOTH A CLOSER AND A LATCH

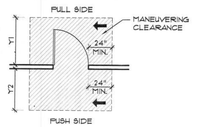
FRONT APPROACH

NOTE:
X = 36" MIN. IF Y1 = 60" ;
X = 42" MIN. IF Y1 = 54"

NOTE:
Y2 = 42" MIN. ;
Y2 = 48" MIN. IF THE DOOR HAS BOTH A CLOSER AND A LATCH

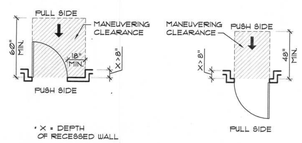
HINGE SIDE APPROACH

NOTE:
Y1 = 48" MIN.
Y1 = 54" MIN. IF THE DOOR HAS A CLOSER

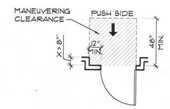


NOTE:
Y2 = 42" MIN.
Y2 = 48" MIN. IF THE DOOR HAS A CLOSER

LATCH SIDE APPROACH

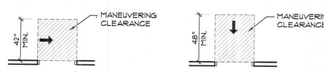


* X = DEPTH OF RECESSED WALL



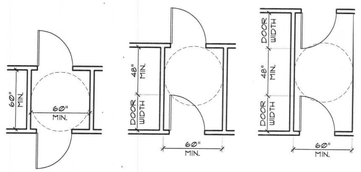
NOTE:
DOOR PROVIDED WITH BOTH CLOSER AND LATCH

CLEARANCES AT RECESSED DOORS



SIDE APPROACH **FRONT APPROACH**

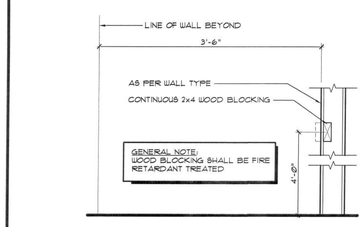
CLEARANCES WITHOUT DOORS



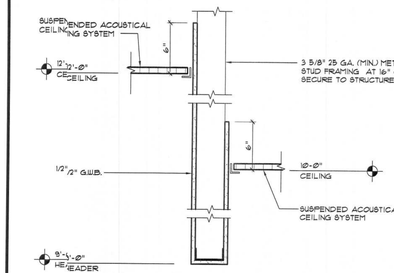
A B C

DOORS IN A SERIES

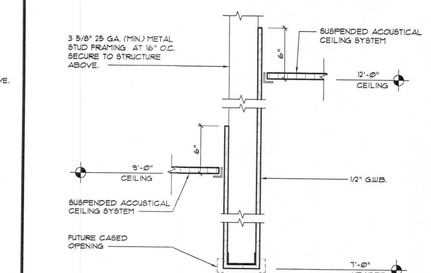
P TYPICAL MANEUVERING CLEARANCES AT DOORWAYS
SCALE: 3/16" = 1'-0"



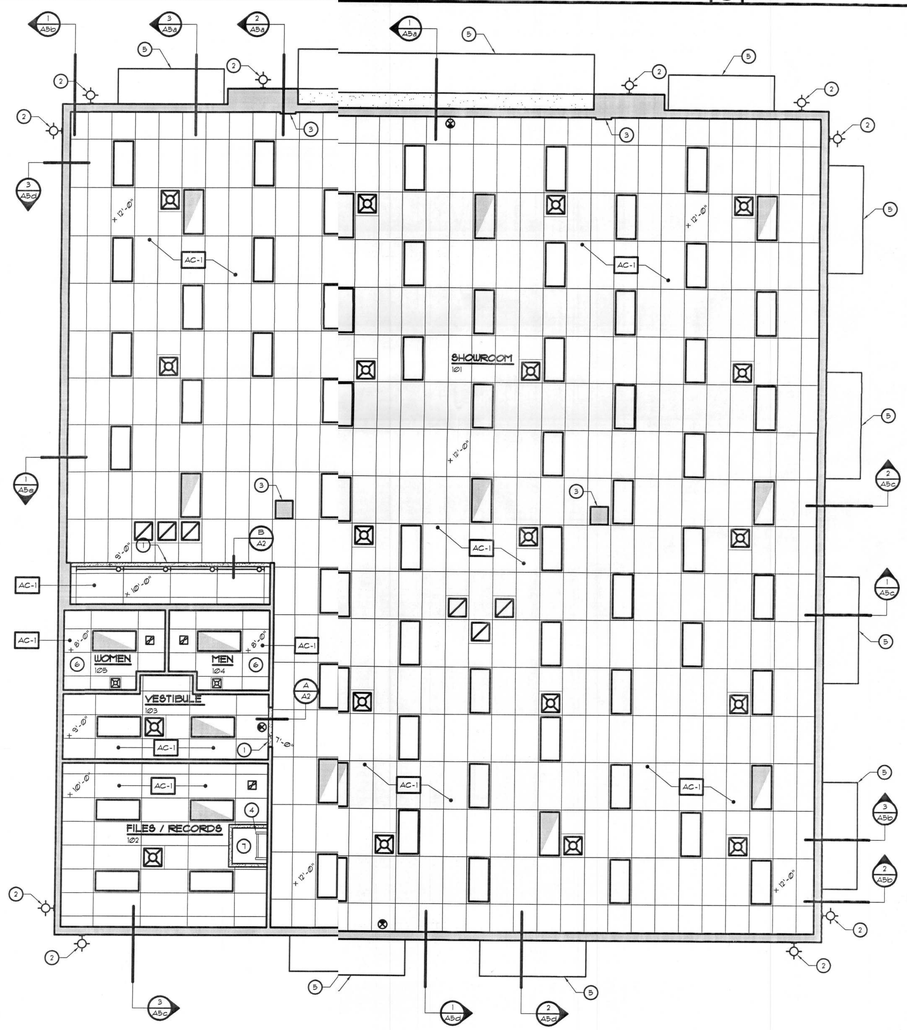
C WOOD BLOCKING DETAIL
SCALE: 1" = 1'-0"



B DETAIL
SCALE: 1-1/2" = 1'-0"



A DETAIL
SCALE: 1-1/2" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

REFLECTED CEILING LEGEND

- 2' x 4' SUSPENDED CEILING GRID SYSTEM WITH 2' x 4' LAY-IN ACOUSTICAL CEILING TILES
- G.W.B. / STUCCO CEILING (SMOOTH FINISH)
- 2' x 4' FLUORESCENT LIGHT FIXTURE, LAY IN 4' SUSPENDED CEILING GRID SYSTEM - SEE ELECTRICAL FOR MORE INFORMATION
- 2' x 4' FLUORESCENT EMERGENCY LIGHT FIXTURE, LAY IN AT SUSPENDED CEILING GRID SYSTEM - SEE ELECTRICAL FOR MORE INFORMATION
- 4' DUAL TUBE FLUORESCENT LIGHT, SURFACE MOUNTED - SEE ELECTRICAL FOR MORE INFORMATION
- EXIT LIGHT FIXTURE - SEE ELECTRICAL FOR MORE INFORMATION
- EXHAUST FAN - SEE MECHANICAL FOR MORE INFORMATION
- MECHANICAL SUPPLY REGISTER - SEE MECHANICAL FOR MORE INFORMATION
- MECHANICAL RETURN REGISTER - SEE MECHANICAL FOR MORE INFORMATION

KEYED NOTES

1. G.W.B. WRAPPED HEADER / OPENING - SEE DETAILS THIS SHEET
2. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
3. STRUCTURAL COLUMN BOX-OUT. SEE FLOOR PLAN.
4. ROOF ACCESS LADDER - SEE DETAIL D/A3.
5. OUTLINE OF PRE-FABRICATED, PRE-ENGINEERED AWNING SYSTEM - SEE ROOF PLAN AND EXTERIOR ELEVATIONS.
6. PROVIDE R-19 BATT INSULATION ABOVE CEILING AT TOILET ROOMS. ALL WALLS TO HAVE SOUND INSULATION FULL HEIGHT FROM FLOOR TO CEILING.
7. EXTEND WALLS TO UNDERSIDE OF ROOF DECK - SEE DETAIL D/A3.

CEILING FINISH SCHEDULE

AC-1	"ARMSTRONG" NON-DIRECTIONAL, SQUARE LAY-IN WHITE CEILING TILE. 15/16" GRID, ITEM #769 (5 YEAR WARRANTY)

GENERAL NOTES

1. ALL CEILING HEIGHTS SHALL BE 12'-0" UNLESS OTHERWISE NOTED
2. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH OWNER'S SIGNAGE SUPPLIER PRIOR TO ROUGH-IN.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL GYP. BD. FURRDOWNS / BULKHEADS AS REQUIRED.
4. G.C. RESPONSIBLE FOR PROVIDING LIGHTING VENDOR COUNTS BY TYPE REQUIRED TO PERFORM ALL WORK ACCORDING TO PLANS.
5. ALL METAL FRAMING FOR GYPSUM WALLBOARD CEILING SHALL BE 25 GAUGE - 3 5/8 INCH WITH MINIMUM 3# @ SHEET METAL SCREW/PER CONNECTION.
6. GUTTERS AND DOWNSPOUTS ARE NOT SHOWN FOR CLARITY - REFER TO ROOF PLANS FOR LOCATIONS AND MORE INFORMATION
7. GENERAL CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH ANY WORK.
8. SEE ELECTRICAL DRAWINGS, FOR ALL LIGHT FIXTURES SPECIFICATIONS.
9. MTL. STUDS SHALL BE CONNECTED TO STRUCTURAL STL. w/ (1) Ø.145"# RAMSET POUDER DRIVEN FASTENERS
10. MTL. STUDS/CLIP ANGLE SHALL BE CONNECTED TO MTL. STUDS w/ MIN (4) #2-14 TEK SCREWS.
11. CONTINUOUS TRACK SHALL BE CONNECTED TO STRUCTURAL STL. w/ (2) Ø.145"# RAMSET POUDER DRIVEN FASTENERS AT 16" O.C.
12. CONTINUOUS TRACK/STUDS/CLIP ANGLES SHALL BE CONNECTID TO CONC./CMU w/ (2) 1/4"# x 1 1/4" TAPCON FASTENERS AT 24" O.C.
13. CONTINUOUS TRACK SHALL BE CONNECTED TO ROOF DECK w/ (2) #8 TEK SCREWS AT 24" O.C.
14. AS REQUIRED, THE CONTRACTOR SHALL PROVIDE CLIP ANGLES FOR ALL METAL STUDS SO PROPER ALIGNMENT CAN BE ATTAINED. CLIP ANGLES SHALL MATCH OR EXCEED THE STUD GAGE.
15. GENERAL CONTRACTOR TO FIELD VERIFY ROOF STRUCTURE HEIGHT AND COORDINATE WITH PROPOSED CEILING HEIGHT TO ACHIEVE 12'-0" HIGH CEILING - NOTIFY ARCHITECT WITH ANY DISCREPANCIES UPON DISCOVERY.

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
20707 US Hwy 19 N. Suite 105 Palm Harbor, FL 34684
Phone: (727) 781-1188 Fax: (727) 781-1663
• www.oliveriarchitects.com •

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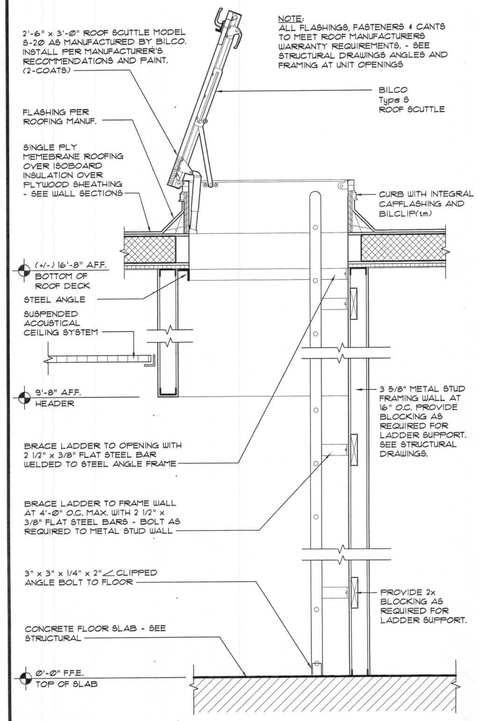
New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date:	01. 28. 14
Scale:	AS NOTED
Project Mgr:	AAY
Drawn:	DC
Job:	13-227
Sheet	A2



D INTERIOR ROOF ACCESS LADDER DETAIL
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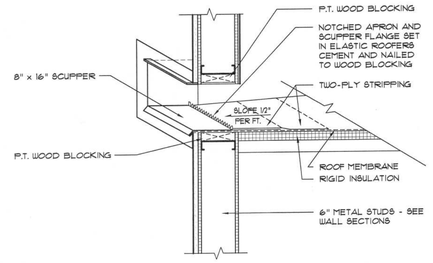
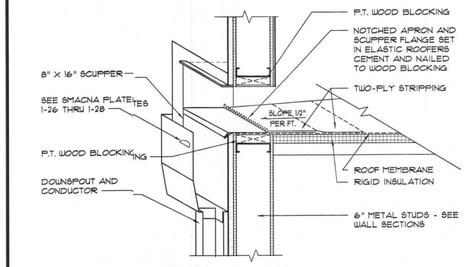
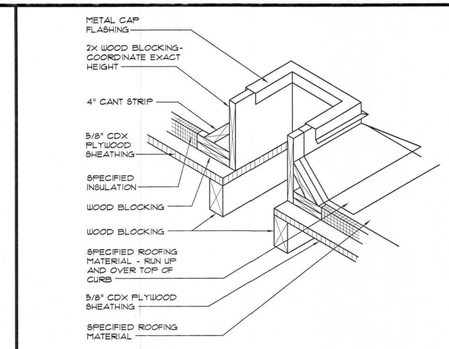


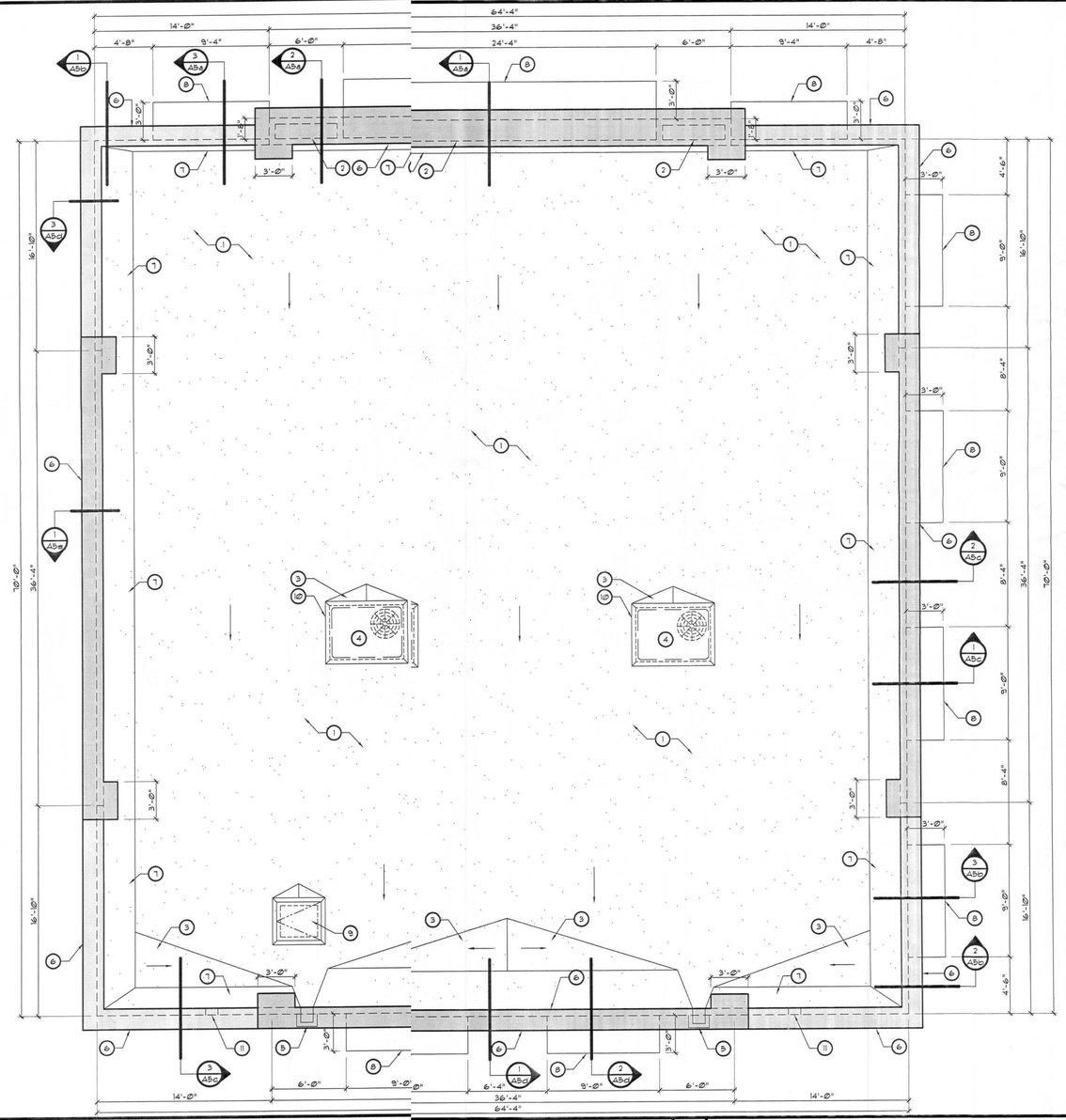
C OVERFLOW SCUPPER DETAIL
SCALE: 1" = 1'-Ø"



B SCUPPER DETAIL
SCALE: 1" = 1'-Ø"



A EQUIPMENT CURB DETAIL
SCALE: NONE



1 ROOF PLAN
SCALE: 3/16" = 1'-Ø"

ROOF LEGEND

- SINGLE PLY ROOF SYSTEM - SEE WALL SECTIONS
- METAL COPING OVER PARAPET SYSTEM - SEE WALL SECTIONS
- INDICATES DIRECTION OF DOWNWARD SLOPE OF ROOF

KEYED NOTES

1. SINGLE PLY ROOF SYSTEM - SEE WALL SECTIONS.
2. OUTLINE OF WALL / COLUMN BELOW - SEE FLOOR PLANS.
3. BUILT-UP CRICKET AS REQUIRED.
4. ROOF TOP MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
5. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
6. PARAPET WALL SYSTEM WITH METAL COPING - SEE WALL SECTIONS.
7. CONTINUOUS CANT STRIP - SEE WALL SECTIONS.
8. PRE-FABRICATED, FABRIC METAL FRAME AWNING SYSTEM - "SUNBRELLA" LOGO RED *4666-ØØØ.
9. ROOF ACCESS HATCH - SEE DETAIL D/A3.
10. ROOF CURB FOR MECHANICAL ROOF TOP UNIT - SEE DETAIL A/A3. AND MECHANICAL DRAWINGS
11. OVERFLOW SCUPPER - SEE DETAIL C/A3.

GENERAL NOTES

1. ALL FLAT ROOF SYSTEMS SHALL HAVE A 1/4" PER FOOT SLOPE U.N.O.
2. ALL EDGE FLASHING TO BE ALUMINUM U.N.O.
3. ALL MISC. FLASHING TO BE ALUMINUM U.N.O.
4. PROVIDE 3.25" MINIMUM ISOBOARD INSULATION ON ENTIRE ROOF DECKING TO ACHIEVE A MINIMUM VALUE OF R-19.

REVISIONS	BY

OLIVERI ARCHITECTS
ARCHITECTURE | PLANNING | INTERIORS
AA
XX
XXX
XL
AA 0002921
Member of the American Institute of Architects
Palm Harbor, FL 34684
Phone 727 . 781 . 7626 • Fax 727 . 781 . 6623
• www.oliveriarchitects.com •

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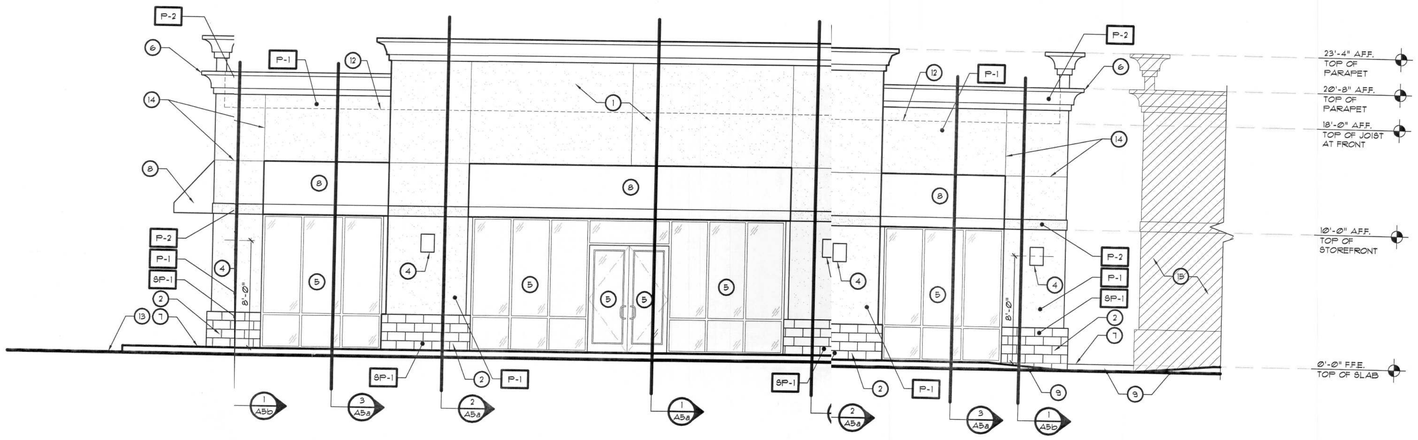
JAN 28 2014
Joseph L. Oliveri, AIA
State of Florida
License # AR0014028

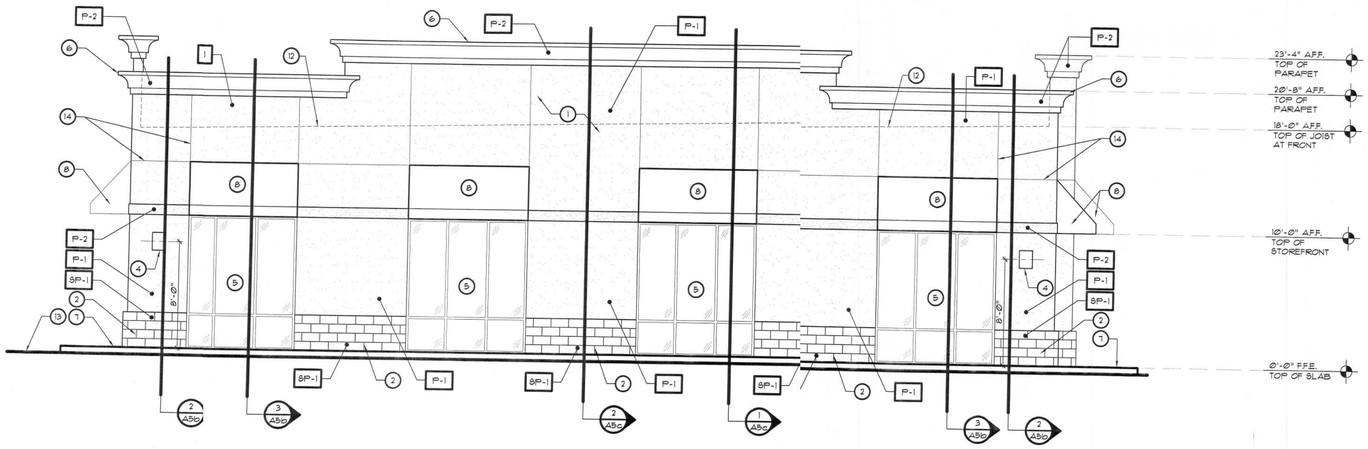
New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: DC
Job: 13-227

Sheet
A3



1 NORTH EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



2 EAST EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"

KEYED NOTES

1. LOCATION OF FUTURE BUILDING SIGNAGE BY TENANTS - PROVIDE BLOCKING AS REQUIRED - COORDINATE WITH SIGNAGE VENDOR.
2. SPLIT FACE BLOCK VENEER.
3. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
4. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
5. DOOR / WINDOW SYSTEM - SEE FLOOR PLANS AND SCHEDULES.
6. PARAPET WALL SYSTEM WITH METAL COPING - SEE WALL SECTIONS.
7. CONCRETE CURB / SIDEWALK - SEE ARCHITECTURAL SITE PLAN.
8. PRE-FABRICATED, FABRIC ALUMINUM FRAME AWNING SYSTEM - "SUNBRELLA" LOGO RED *4666-000.
9. CONCRETE RAMP - SEE SITE PLAN.
10. ELECTRICAL SERVICE - SEE ELECTRICAL DRAWINGS.
11. OVERFLOW SCUPPER.
12. APPROXIMATE LINE OF SLOPING ROOF BEHIND PARAPET.
13. APPROXIMATE GRADE.
14. STUCCO CONTROL JOINTS - TYPICAL.
15. FUTURE BUILDING LOCATION.

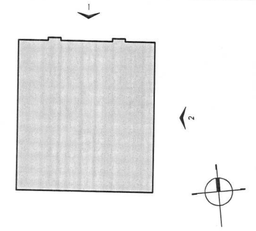
EXTERIOR FINISH SCHEDULE

P1	ICI DULUX - HALE VILLAGE, 2ØYY 22/128 - SATIN
P2	ICI DULUX - JEFFERSON HOUSE, 3ØYY 47/145 - SATIN
SP1	OLD CASTLE - JARED TAN OR EQUAL.

GENERAL NOTES

1. ALL FLAT ROOF SYSTEMS SHALL HAVE A 1/4" PER FOOT SLOPE U.N.O.
2. EXTERIOR FINISH TO BE SMOOTH SAND FLOAT STUCCO FINISH U.N.O.
3. GENERAL CONTRACTOR TO VERIFY ALL GRADE ELEVATIONS.
4. PROVIDE PROPER FLASHING AT ALL REQUIRED AREAS TO ENSURE A WATERTIGHT CONDITION.
5. ALL CORNER BEADS TO BE 100% PLASTIC/ VINYL, NO METAL.
6. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING.
7. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING TYPES AND LOCATIONS IN THE METAL CANOPY SYSTEM.
8. GENERAL CONTRACTOR TO SUPPLY ELECTRIC SERVICE FOR SIGNAGE (SEE ELECTRICAL PLAN) AND PROVIDE BLOCKING AS REQUIRED. COORDINATE WITH VENDOR AND OWNER.
9. ALL ALUMINUM COPING, FLASHING, SCUPPERS AND DOWNSPOUTS FINISH TO MATCH P2 - SEE FINISH SCHEDULE, THIS SHEET.

KEY PLAN



REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7025 • Fax 727 . 781 . 6623
• www.oliverarchitects.com •

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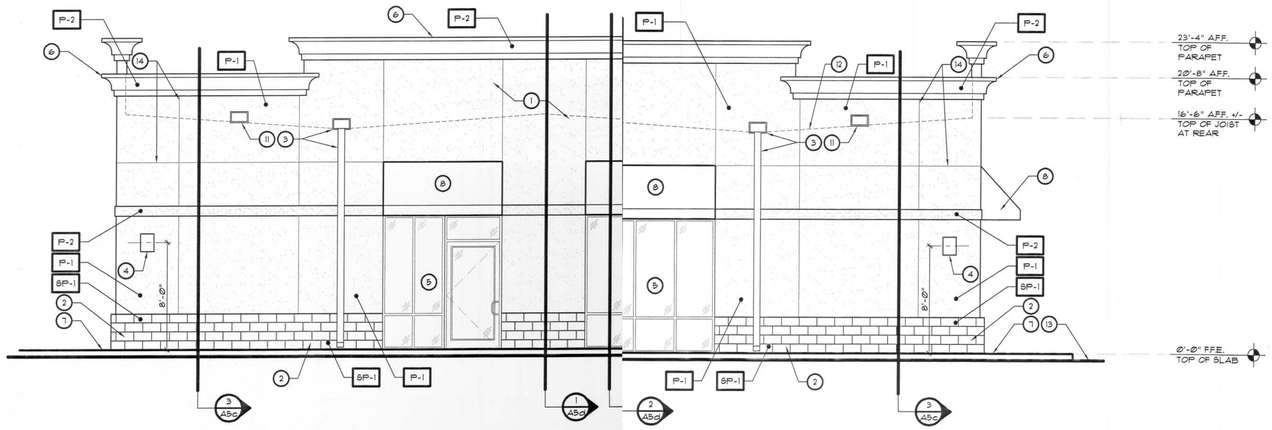
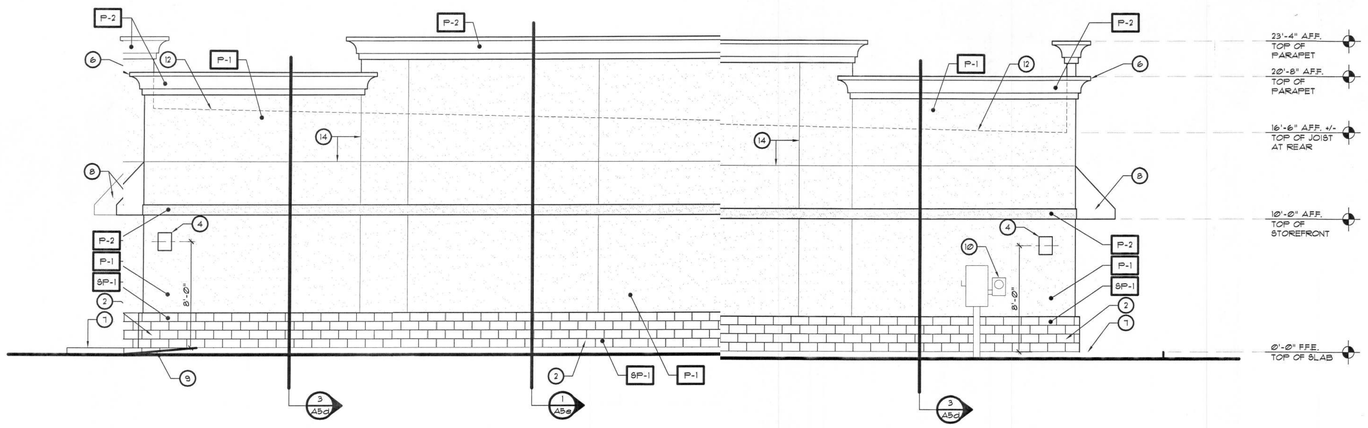


1 SOUTH EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



2 WEST EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"

KEYED NOTES

1. LOCATION OF FUTURE BUILDING SIGNAGE BY TENANTS - PROVIDE BLOCKING AS REQUIRED - COORDINATE WITH SIGNAGE VENDOR.
2. SPLIT FACE BLOCK VENEER.
3. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
4. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
5. DOOR / WINDOW SYSTEM - SEE FLOOR PLANS AND SCHEDULES.
6. PARAPET WALL SYSTEM WITH METAL COPING - SEE WALL SECTION.
7. CONCRETE CURB / SIDEWALK - SEE ARCHITECTURAL SITE PLAN.
8. PRE-FABRICATED, FABRIC ALUMINUM FRAME AWNING SYSTEM - "SUNBRELLA" LOGO RED *4646-0000.
9. CONCRETE RAMP - SEE SITE PLAN.
10. ELECTRICAL SERVICE - SEE ELECTRICAL DRAWINGS.
11. OVERFLOW SCUPPER.
12. APPROXIMATE LINE OF SLOPING ROOF BEHIND PARAPET.
13. APPROXIMATE GRADE.
14. STUCCO CONTROL JOINTS - TYPICAL.
15. FUTURE BUILDING LOCATION.

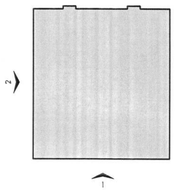
EXTERIOR FINISH SCHEDULE

P1	ICI DULUX - HALE VILLAGE, 20YY 22/123 - SATIN
P2	ICI DULUX - JEFFERSON HOUSE, 30YY 47/145 - SATIN
SP1	OLD CASTLE - JARED TAN OR EQUAL.

GENERAL NOTES

1. ALL FLAT ROOF SYSTEMS SHALL HAVE A 1/4" PER FOOT SLOPE U.N.O.
2. EXTERIOR FINISH TO BE SMOOTH SAND FLOAT STUCCO FINISH U.N.O.
3. GENERAL CONTRACTOR TO VERIFY ALL GRADE ELEVATIONS.
4. PROVIDE PROPER FLASHING AT ALL REQUIRED AREAS TO ENSURE A WATERTIGHT CONDITION.
5. ALL CORNER BEADS TO BE 100% PLASTIC/ VINYL, NO METAL.
6. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING.
7. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING TYPES AND LOCATIONS IN THE METAL CANOPY SYSTEM.
8. GENERAL CONTRACTOR TO SUPPLY ELECTRIC SERVICE FOR SIGNAGE (SEE ELECTRICAL PLAN) AND PROVIDE BLOCKING AS REQUIRED. COORDINATE WITH VENDOR AND OWNER.
9. ALL ALUMINUM COPING, FLASHING, SCUPPERS AND DOWNSPOUTS FINISH TO MATCH P2 - SEE FINISH SCHEDULE, THIS SHEET.

KEY PLAN



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OLIVERI ARCHITECTS
ARCHITECTURE | PLANNING | INTERIORS
AA 0002021
Member of the American Institute of Architects
32707 US Hwy. 19 N. Palm Harbor, FL 34684
Phone: 727.781.7705 • Fax: 727.781.9668
• www.oliverisarchitects.com •

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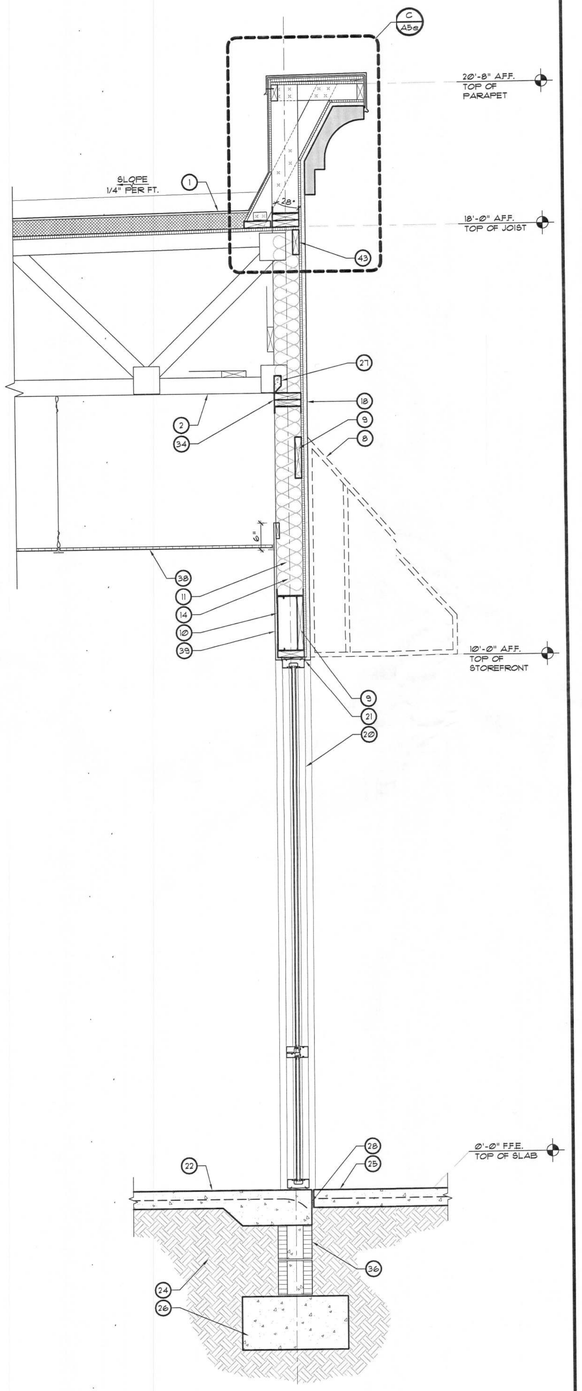
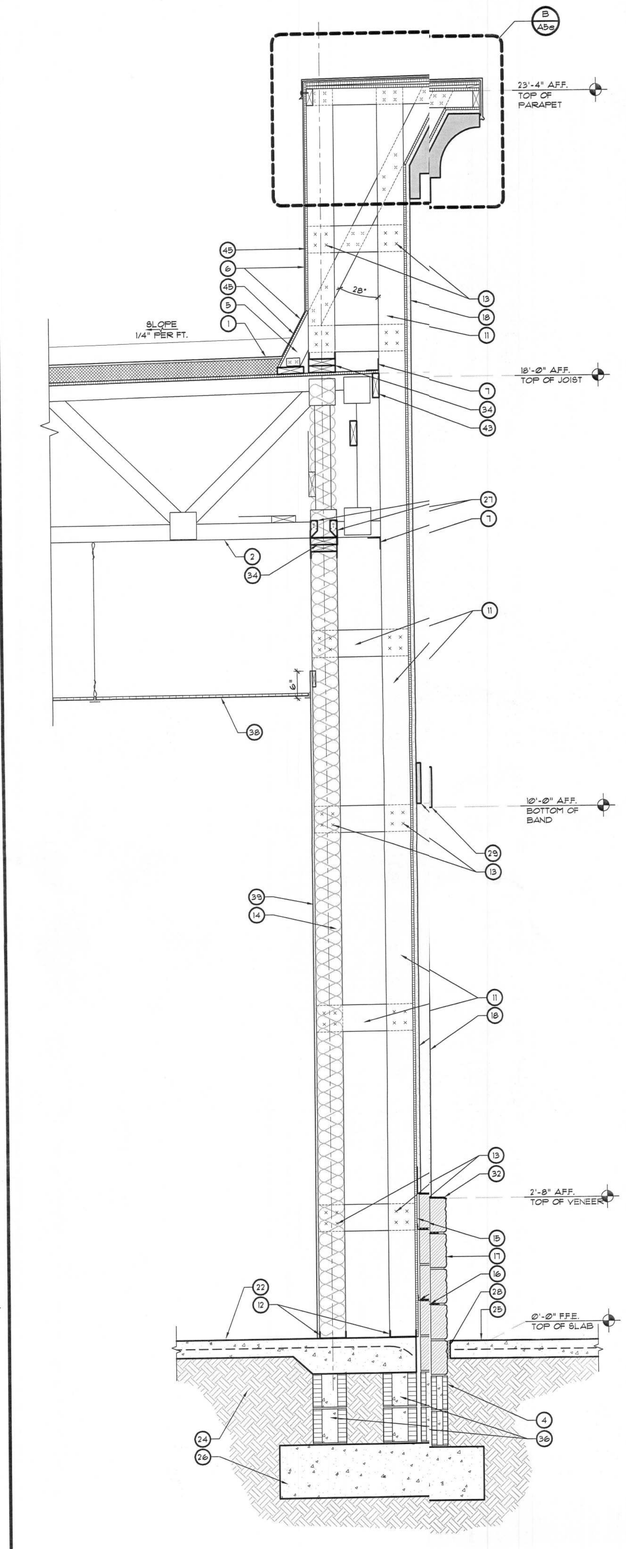
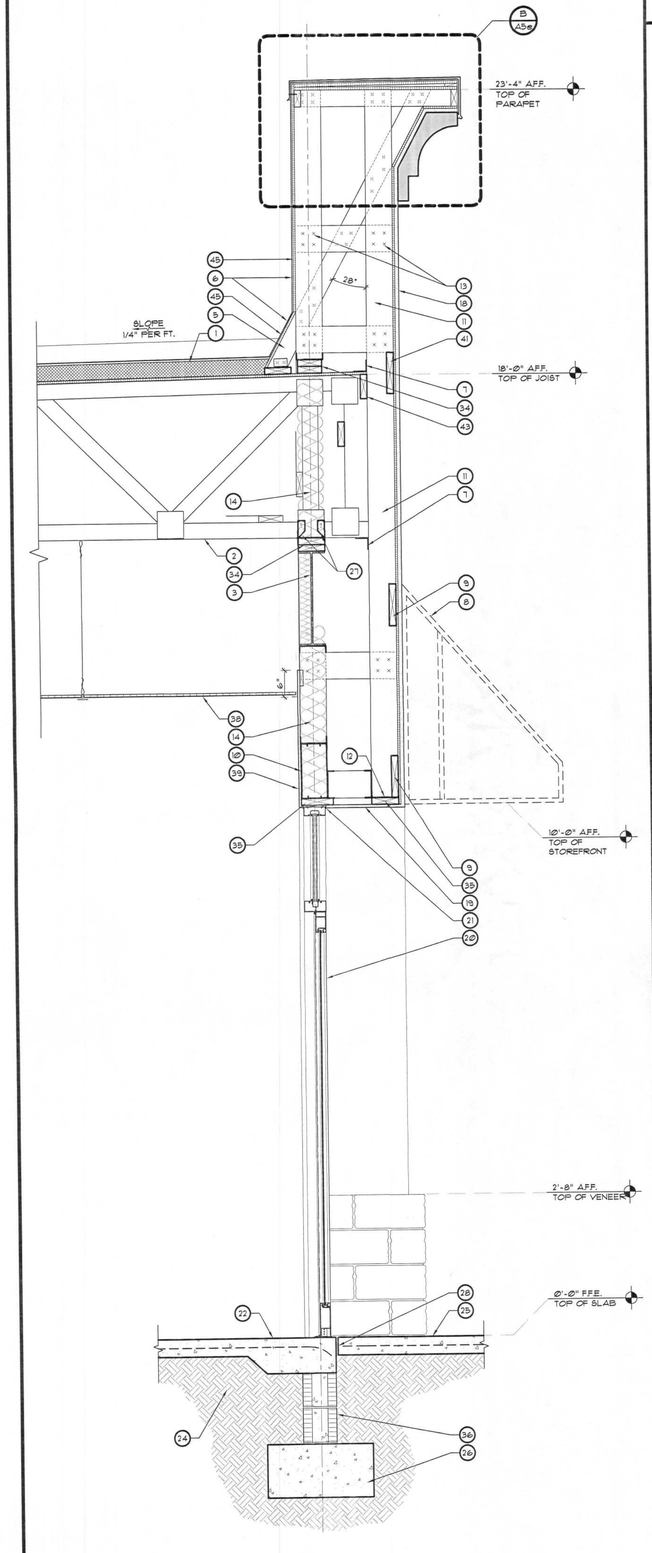


3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"

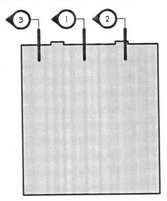


1 WALL SECTION
SCALE: 3/4" = 1'-0"

KEYED NOTES

1. SINGLE PLY MEMBRANE ROOFING OVER 3.25" MINIMUM ISOBOARD INSULATION OVER 3/4" T&G PLYWOOD SHEATHING.
2. PRE-ENGINEERED WOOD TRUSSES - SEE STRUCTURAL DRAWINGS.
3. STEEL BEAM - SEE STRUCTURAL DRAWINGS.
4. 4" C.M.U. STEM WALL - SEE STRUCTURAL DRAWINGS.
5. CONTINUOUS CANT.
6. RUN ROOFING MEMBRANE UP AND OVER PARAPET WALL AND OVER ENTIRE WALL CAP.
7. STEEL ANGLE - SEE STRUCTURAL DRAWINGS.
8. PRE-FABRICATED CANOPY / AWNING SYSTEM. SEE EXTERIOR ELEVATIONS.
9. PROVIDE ADDITIONAL WOOD BLOCKING AT CANOPY / AWNING CONNECTION - COORDINATE WITH VENDOR.
10. METAL STUD HEADER - SEE STRUCTURAL DRAWINGS.
11. 6" METAL STUD FRAMING AT 16" O.C. TYPICAL. SEE STRUCTURAL DRAWINGS.
12. CONTINUOUS 6" METAL TRACK - SEE STRUCTURAL DRAWINGS.
13. (4) #0 TEK SCREWS (TYP.) AT BRIDGING - SEE STRUCTURAL DRAWINGS.
14. R-19 INSULATION.
15. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVER "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING.
16. BRICK TIE AT 16" O.C. EACH WAY.
17. SPLIT FACE BLOCK VENEER - SEE EXTERIOR ELEVATIONS.
18. 7/8" SMOOTH SAND FLOAT FINISH STUCCO OVER PAPER BACKED METAL LATH OVER "TYVEK" STUCCO WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.
19. 7/8" SMOOTH SAND FLOAT STUCCO FINISH OVER HIGH RIB STRUCTURAL LATH.
20. STOREFRONT DOOR / WINDOW SYSTEM - SEE DOOR / WINDOW SCHEDULE.
21. CONTINUOUS SEALANT AS REQUIRED.
22. 4" THICK CONCRETE SLAB - SEE STRUCTURAL DRAWINGS.
23. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVE "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE G.W.B. SHEATHING PER DETAIL 2/A1a.
24. CLEAN, COMPACTED, TERMITE TREATED FILL - SEE STRUCTURAL DRAWINGS.
25. CONCRETE SIDEWALK - SEE ARCHITECTURAL SITE PLAN.
26. CONCRETE FOOTING - SEE STRUCTURAL DRAWINGS.
27. STRUCTURAL CONNECTOR - SEE STRUCTURAL DRAWINGS.
28. 1/2" ISOLATION JOINT.
29. EIFS TRIM - SEE PROFILES DETAIL A/A5a.
30. ALUMINUM COPING WITH HEMMED LEADING EDGE SET IN ADHESIVE.
31. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
32. CONTINUOUS ALUMINUM FLASHING.
33. 7/8" SMOOTH SAND FLOAT FINISH STUCCO OVER PAPERBACKED METAL LATH OVER "TYVEK" STUCCO WRAP OVER 1/2" EXTERIOR GRADE G.W.B. SHEATHING PER DETAIL 2/A1a.
34. 2x DOUBLE TOP / BOTTOM PLATE.
35. PROVIDE 2x BLOCKING AS REQUIRED.
36. 8" C.M.U. STEM WALL - SEE STRUCTURAL DRAWINGS.
37. BRACING - SEE STRUCTURAL DRAWINGS.
38. LAY-IN CEILING - SEE REFLECTED CEILING PLAN FOR HEIGHTS.
39. 1/2" G.W.B. INTERIOR FINISH.
40. PROVIDE 2 LAYERS OF ⅝" TYPE "X" G.W.B. TO UNDERSIDE OF ROOF DECK. SEE DETAIL 2/A1a FOR 1 HOUR RATED EXTERIOR WALL ASSEMBLY.
41. PROVIDE BLOCKING AND ACCESS PANEL FOR TENANT SIGNAGE AS REQUIRED. COORDINATE WITH SIGNAGE VENDOR FOR LOCATION AND MOUNTING REQUIREMENTS.
42. EXTEND DOWNSPOUT TO PVC SLEEVE AND CONNECT TO STORMWATER SYSTEM - SEE CIVIL DRAWINGS.
43. CONTINUOUS 2" x 6" WOOD BLOCKING - SEE STRUCTURAL DRAWINGS.
44. LIGHT GAUGE CLIP AT EACH STUD - SEE STRUCTURAL DRAWINGS.
45. 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.

KEY PLAN



REVISIONS	BY

OLIVERI ARCHITECTS
design XX XXX XL
AA 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
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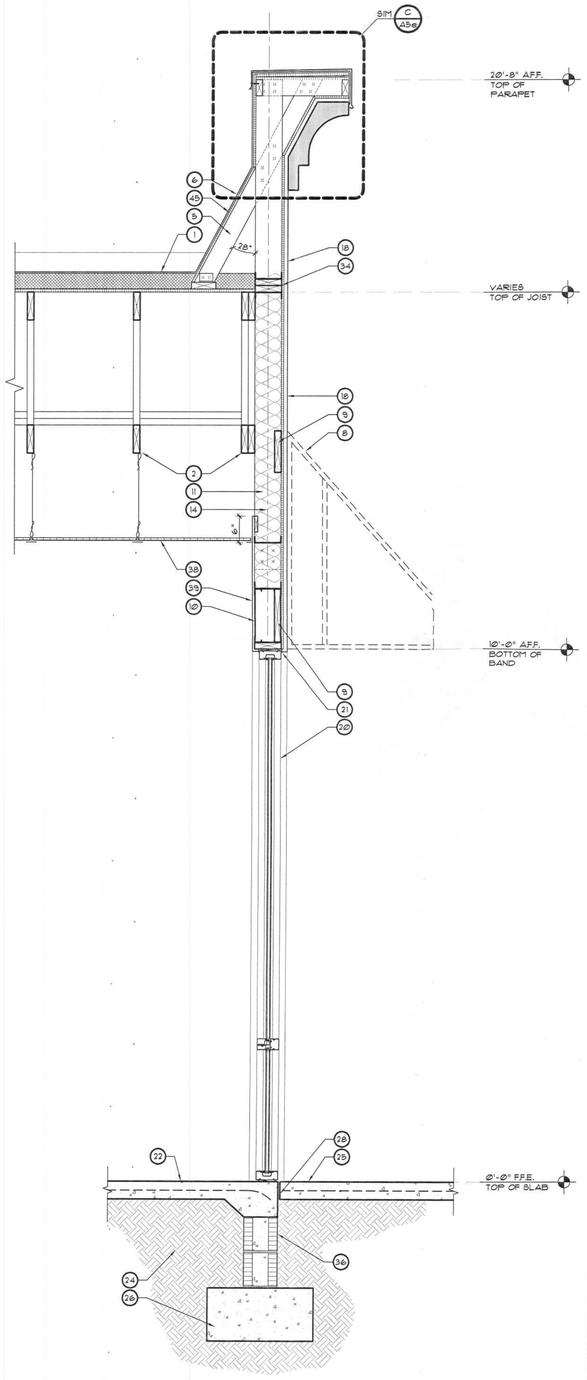
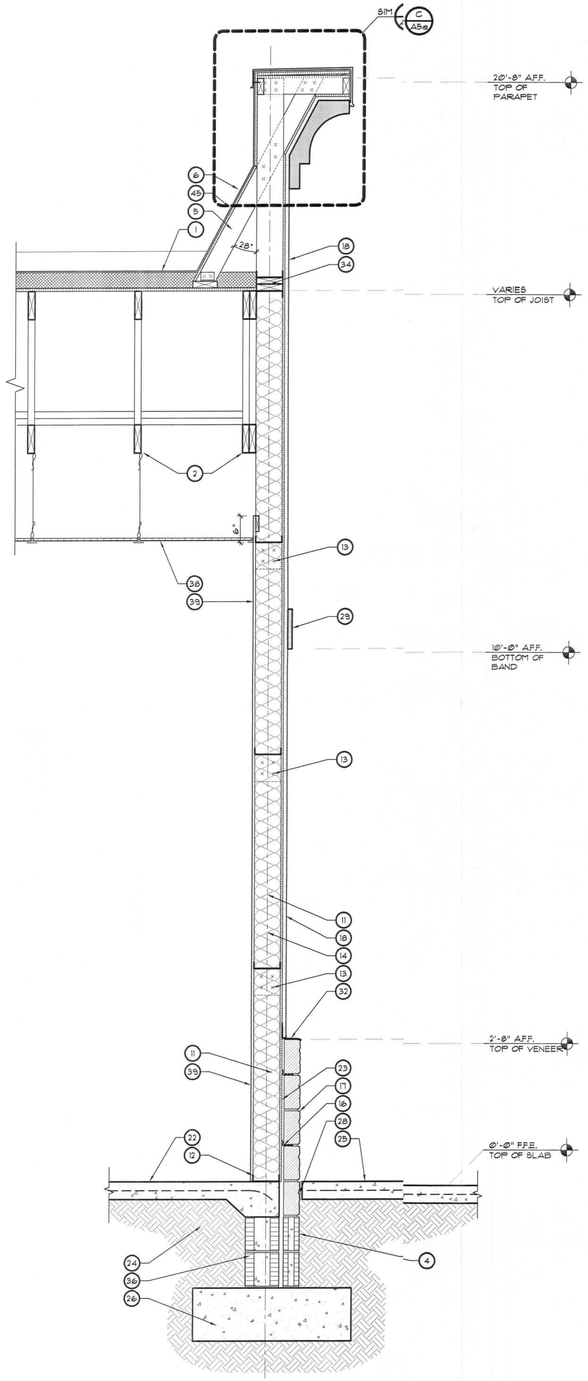
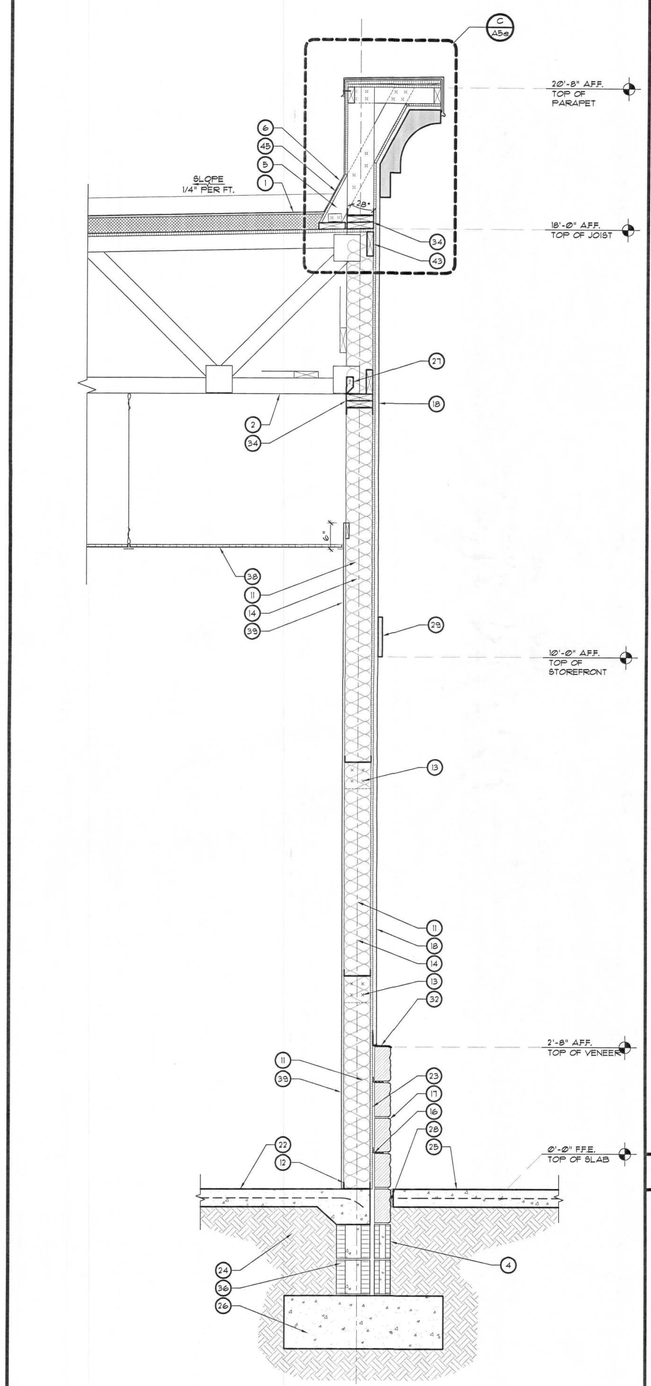


3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"

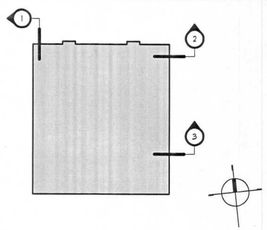


1 WALL SECTION
SCALE: 3/4" = 1'-0"

KEYED NOTES

1. SINGLE PLY MEMBRANE ROOFING OVER 3.25" MINIMUM ISOBOARD INSULATION OVER 3/4" T+G PLYWOOD SHEATHING.
2. PRE-ENGINEERED WOOD TRUSSES - SEE STRUCTURAL DRAWINGS.
3. STEEL BEAM - SEE STRUCTURAL DRAWINGS.
4. 4" C.M.U. STEM WALL - SEE STRUCTURAL DRAWINGS.
5. CONTINUOUS CANT.
6. RUN ROOFING MEMBRANE UP AND OVER PARAPET WALL AND OVER ENTIRE WALL CAP.
7. STEEL ANGLE - SEE STRUCTURAL DRAWINGS.
8. PRE-FABRICATED CANOPY / AWNING SYSTEM. SEE EXTERIOR ELEVATIONS.
9. PROVIDE ADDITIONAL WOOD BLOCKING AT CANOPY / AWNING CONNECTION - COORDINATE WITH VENDOR.
10. METAL STUD HEADER - SEE STRUCTURAL DRAWINGS.
11. 6" METAL STUD FRAMING AT 16" O.C. TYPICAL. SEE STRUCTURAL DRAWINGS.
12. CONTINUOUS 6" METAL TRACK - SEE STRUCTURAL DRAWINGS.
13. (4) #Ø TEK SCREWS (TYP.) AT BRIDGING - SEE STRUCTURAL DRAWINGS.
14. R-19 INSULATION.
15. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVER "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING.
16. BRICK TIE AT 16" O.C. EACH WAY.
17. SPLIT FACE BLOCK VENEER - SEE EXTERIOR ELEVATIONS.
18. 7/8" SMOOTH SAND FLOAT FINISH STUCCO OVER PAPER BACKED METAL LATH OVER "TYVEK" STUCCO WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.
19. 7/8" SMOOTH SAND FLOAT STUCCO FINISH OVER HIGH RIB STRUCTURAL LATH.
20. STOREFRONT DOOR / WINDOW SYSTEM - SEE DOOR / WINDOW SCHEDULE.
21. CONTINUOUS SEALANT AS REQUIRED.
22. 4" THICK CONCRETE SLAB - SEE STRUCTURAL DRAWINGS.
23. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVE "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE G.W.B. SHEATHING PER DETAIL 2/A1a.
24. CLEAN, COMPACTED, TERMITE TREATED FILL - SEE STRUCTURAL DRAWINGS.
25. CONCRETE SIDEWALK - SEE ARCHITECTURAL SITE PLAN.
26. CONCRETE FOOTING - SEE STRUCTURAL DRAWINGS.
27. STRUCTURAL CONNECTOR - SEE STRUCTURAL DRAWINGS.
28. 1/2" ISOLATION JOINT.
29. EIFS TRIM - SEE PROFILES DETAIL A/A5e.
30. ALUMINUM COPING WITH HEMMED LEADING EDGE SET IN ADHESIVE.
31. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
32. CONTINUOUS ALUMINUM FLASHING.
33. 7/8" SMOOTH SAND FLOAT FINISH STUCCO OVER PAPERBACKED METAL LATH OVER "TYVEK" STUCCO WRAP OVER 1/2" EXTERIOR GRADE G.W.B. SHEATHING PER DETAIL 2/A1a.
34. 2x DOUBLE TOP / BOTTOM PLATE.
35. PROVIDE 2x BLOCKING AS REQUIRED.
36. 8" C.M.U. STEM WALL - SEE STRUCTURAL DRAWINGS.
37. BRACING - SEE STRUCTURAL DRAWINGS.
38. LAY-IN CEILING - SEE REFLECTED CEILING PLAN FOR HEIGHTS.
39. 1/2" G.W.B. INTERIOR FINISH.
40. PROVIDE 2 LAYERS OF 5/8" TYPE "X" G.W.B. TO UNDERSIDE OF ROOF DECK. SEE DETAIL 2/A1a FOR 1 HOUR RATED EXTERIOR WALL ASSEMBLY.
41. PROVIDE BLOCKING AND ACCESS PANEL FOR TENANT SIGNAGE AS REQUIRED. COORDINATE WITH SIGNAGE VENDOR FOR LOCATION AND MOUNTING REQUIREMENTS.
42. EXTEND DOWNSPOUT TO PVC SLEEVE AND CONNECT TO STORMWATER SYSTEM - SEE CIVIL DRAWINGS.
43. CONTINUOUS 2" x 6" WOOD BLOCKING - SEE STRUCTURAL DRAWINGS.
44. LIGHT GAUGE CLIP AT EACH STUD - SEE STRUCTURAL DRAWINGS.
45. 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.

KEY PLAN



REVISIONS	BY

OLIVERI ARCHITECTS
AA-0002921
Member of the American Institute of Architects
3207 US Hwy. 19 • Palm Harbor, FL 34684
Phone: 727.781.7525 • Fax: 727.781.9683
• www.oliverarchitects.com •

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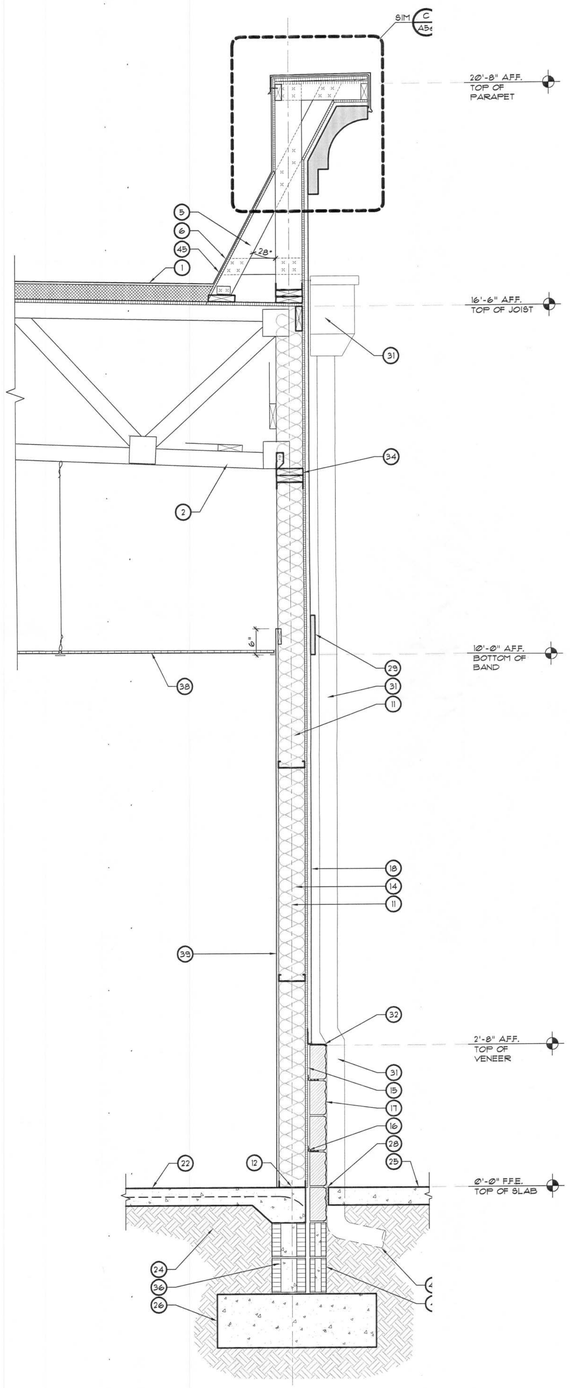
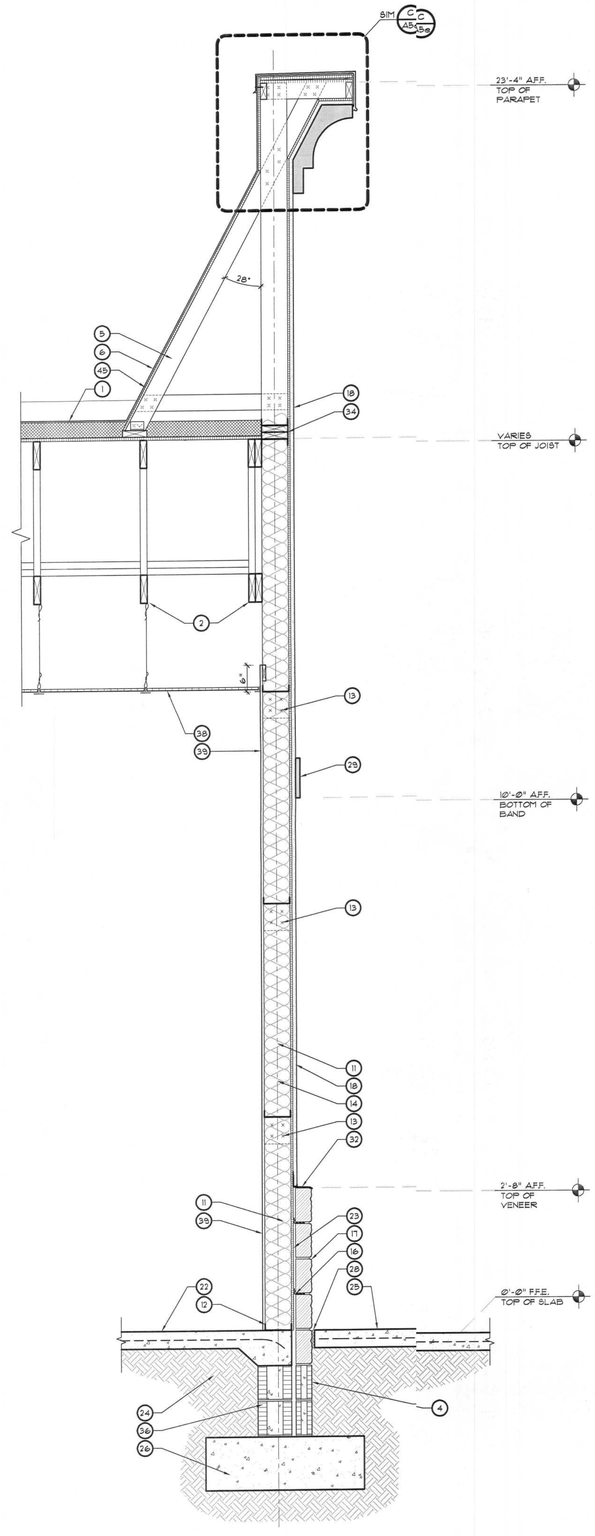
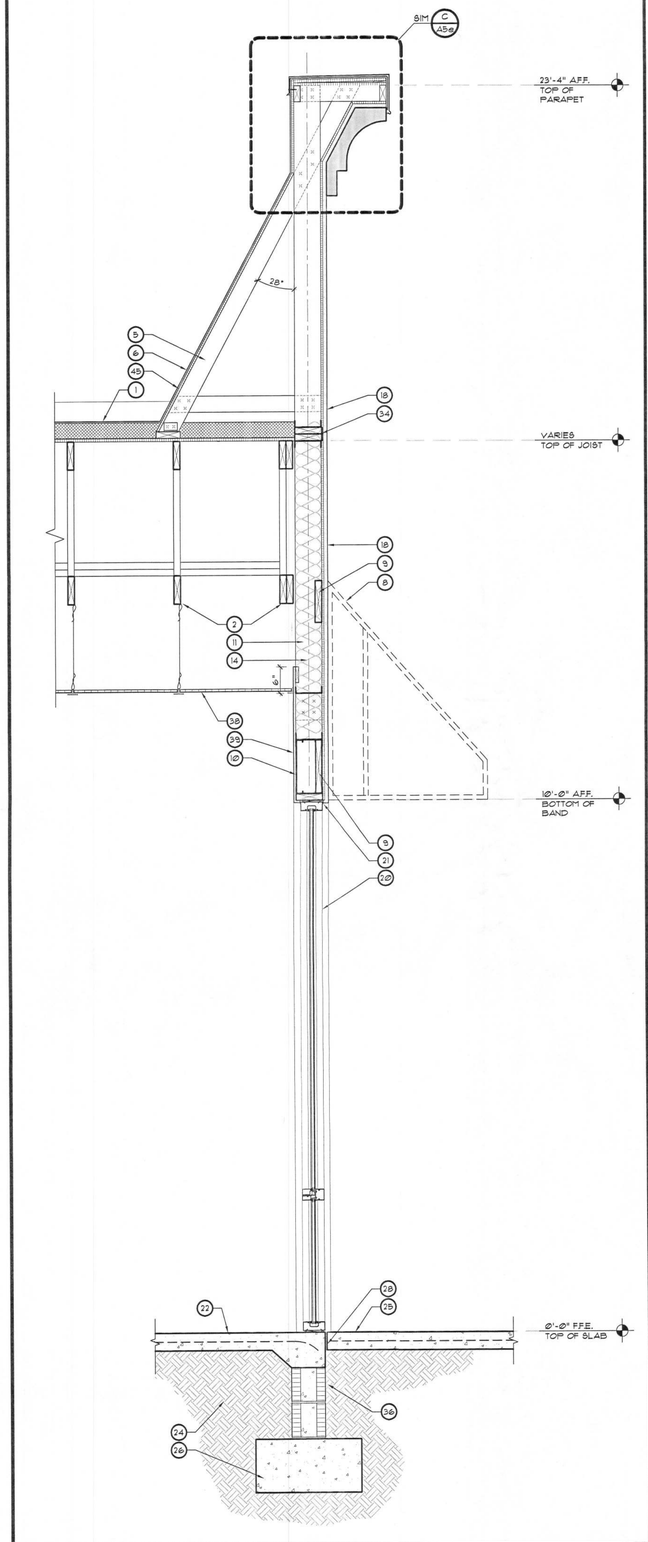


3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



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

KEYED NOTES

1. SINGLE PLY MEMBRANE ROOFING OVER 3.25" MINIMUM ISOBOARD INSULATION OVER 3/4" T&G PLYWOOD SHEATHING.
2. PRE-ENGINEERED WOOD TRUSSES - SEE STRUCTURAL DRAWINGS.
3. STEEL BEAM - SEE STRUCTURAL DRAWINGS.
4. 4" C.M.U. STEM WALL - SEE STRUCTURAL DRAWINGS.
5. CONTINUOUS CANT.
6. RUN ROOFING MEMBRANE UP AND OVER PARAPET WALL AND OVER ENTIRE WALL CAP.
7. STEEL ANGLE - SEE STRUCTURAL DRAWINGS.
8. PRE-FABRICATED CANOPY / AWNING SYSTEM. SEE EXTERIOR ELEVATIONS.
9. PROVIDE ADDITIONAL WOOD BLOCKING AT CANOPY / AWNING CONNECTION - COORDINATE WITH VENDOR.
10. METAL STUD HEADER - SEE STRUCTURAL DRAWINGS.
11. 6" METAL STUD FRAMING AT 16" O.C. TYPICAL. SEE STRUCTURAL DRAWINGS.
12. CONTINUOUS 6" METAL TRACK - SEE STRUCTURAL DRAWINGS.
13. (4) #10 TEK SCREWS (TYP.) AT BRIDGING - SEE STRUCTURAL DRAWINGS.
14. R-19 INSULATION.
15. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVER "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING.
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18. 7/8" SMOOTH SAND FLOAT FINISH STUCCO OVER PAPER BACKED METAL LATH OVER "TYVEK" STUCCO WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.
19. 7/8" SMOOTH SAND FLOAT STUCCO FINISH OVER HIGH RIB STRUCTURAL LATH.
20. STOREFRONT DOOR / WINDOW SYSTEM - SEE DOOR / WINDOW SCHEDULE.
21. CONTINUOUS SEALANT AS REQUIRED.
22. 4" THICK CONCRETE SLAB - SEE STRUCTURAL DRAWINGS.
23. 3/4" STUCCO SCRATCH COAT OVER PAPERBACKED METAL LATH OVE "TYVEK" BUILDING WRAP OVER 1/2" EXTERIOR GRADE G.W.B. SHEATHING PER DETAIL 2/A1a.
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27. STRUCTURAL CONNECTOR - SEE STRUCTURAL DRAWINGS.
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31. ALUMINUM SCUPPER AND COLLECTION BOX WITH DOWNSPOUT - SEE DETAIL B/A3.
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40. PROVIDE 2 LAYERS OF 5/8" TYPE "X" G.W.B. TO UNDERSIDE OF ROOF DECK. SEE DETAIL 2/A1a FOR 1 HOUR RATED EXTERIOR WALL ASSEMBLY.
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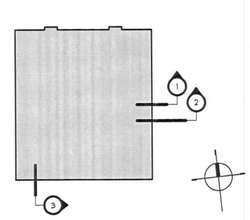
45. 1/2" EXTERIOR GRADE PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL DRAWINGS.

KEY PLAN



REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliverarchitects.com •

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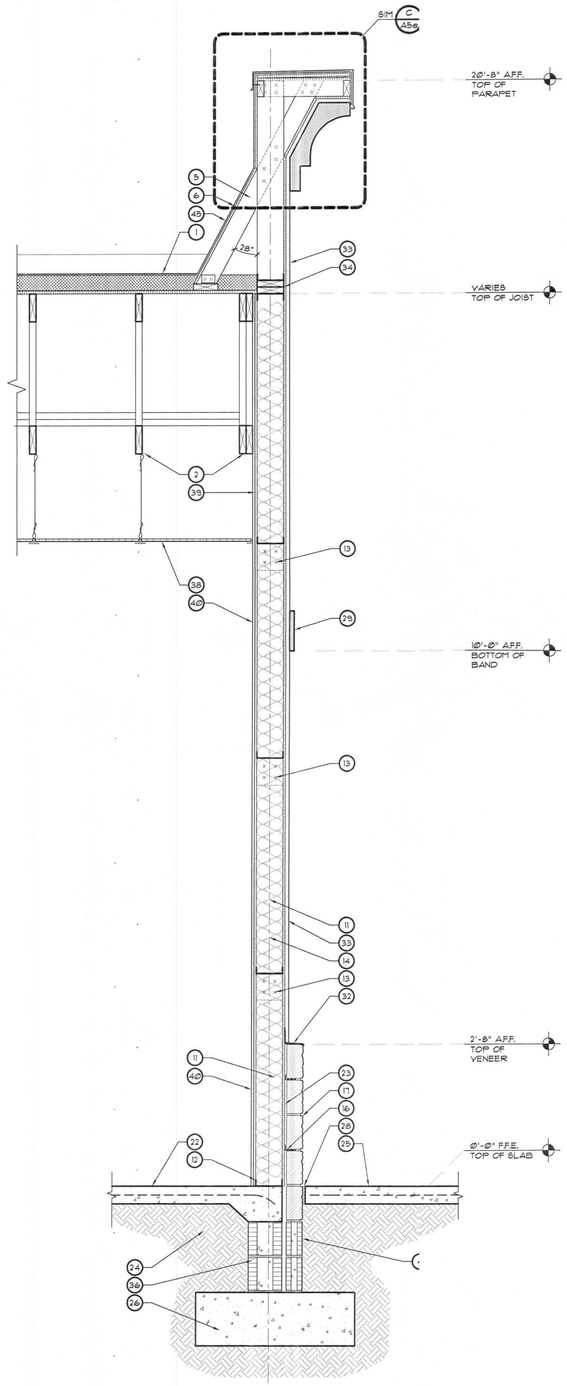
JAN 28 2014

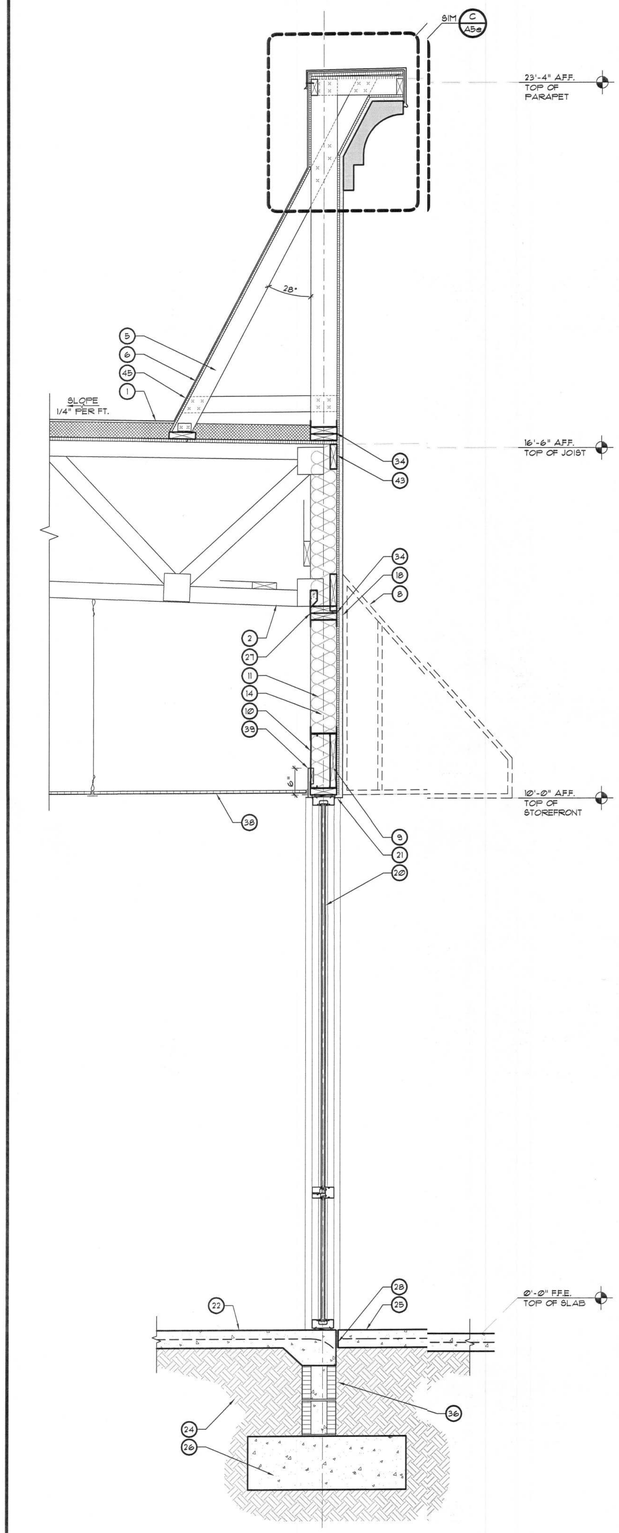
Joseph L. Oliveri, AIA
State of Florida
License: AR0014605

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date:	01. 28. 14
Scale:	AS NOTED
Project Mgr:	AAY
Drawn:	D.C.
Job:	13-227
Sheet	A5c



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



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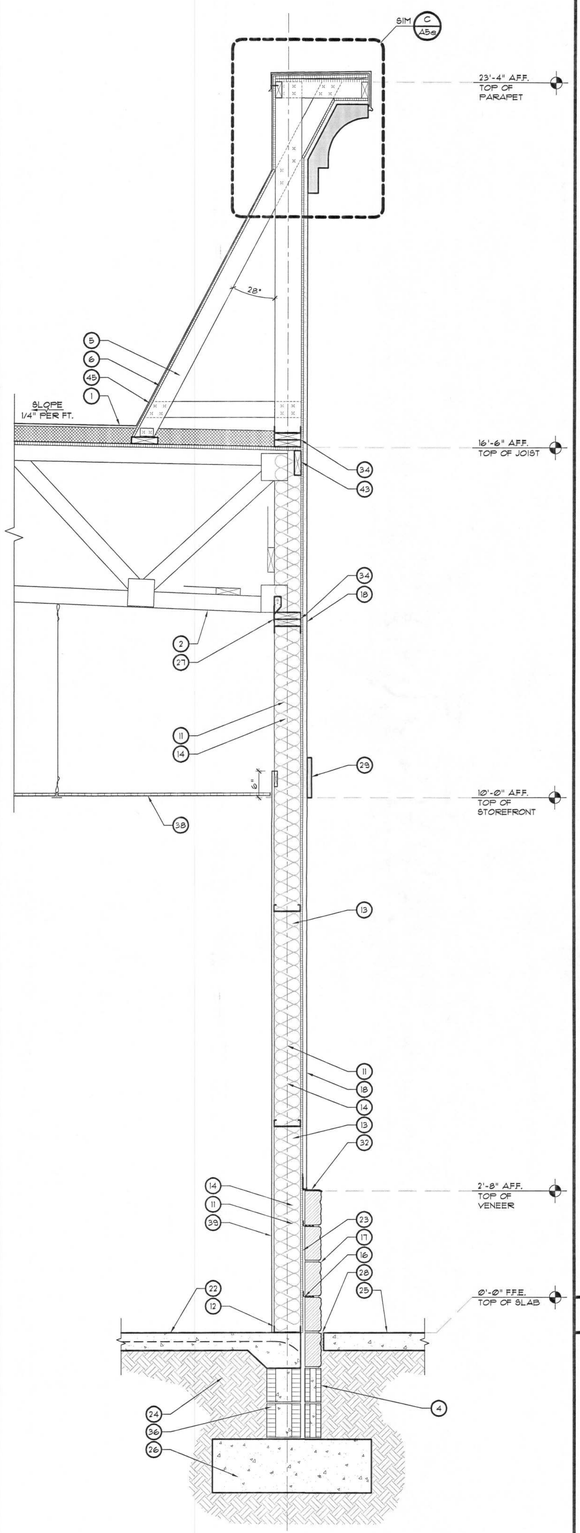

1 WALL SECTION
SCALE: 3/4" = 1'-0"

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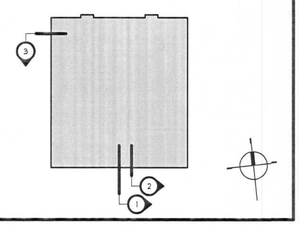

REVISIONS	BY

OLIVERI ARCHITECTS
A.A.0002921
Member of the American Institute of Architects
32107 US Hwy 19 • Palm Harbor, FL 34684
Phone 727.781.7251 • Fax 727.781.5623
• www.oliverarchitects.com •

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JAN 28 2014

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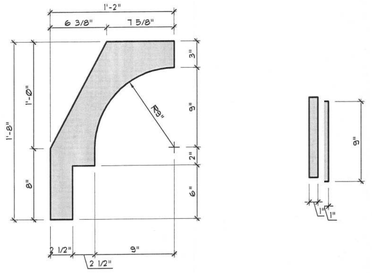
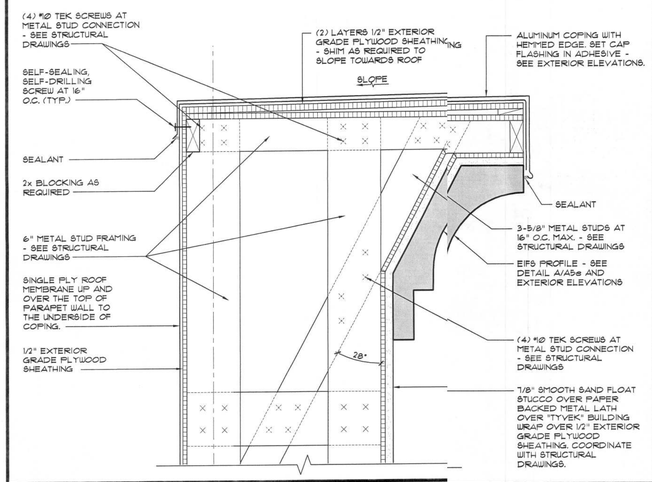


A EIFS PROFILES
SCALE: 1 1/2" = 1'-0"



B DETAIL
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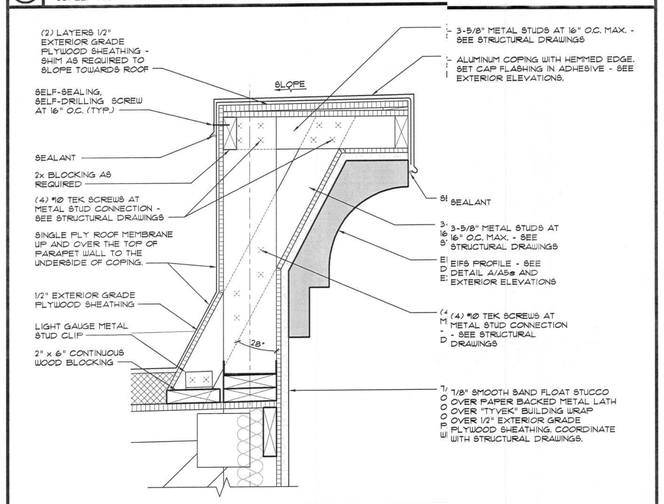

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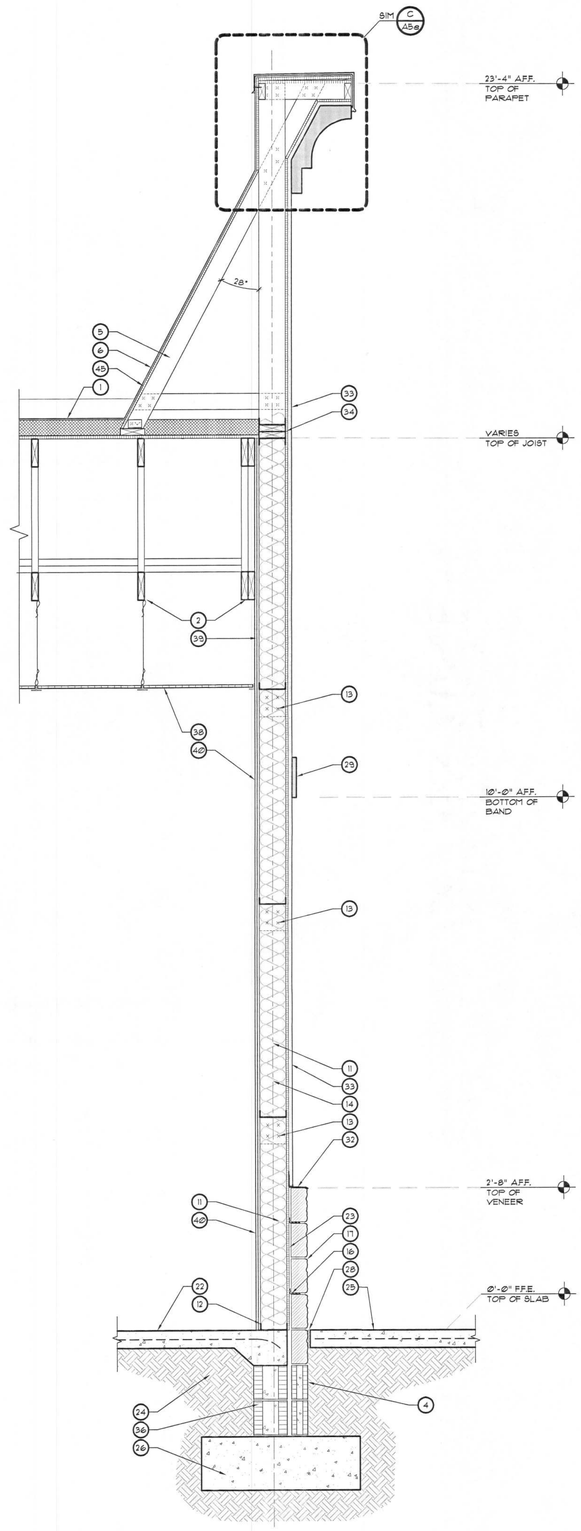

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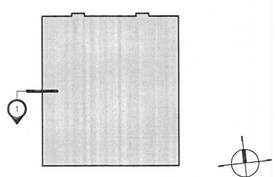

REVISIONS	BY

OLIVERI ARCHITECTS
A.A 0002831
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
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JAN 28 2014
Joseph L. Oliveri, AIA
State of Florida
License #AR0014635

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: D.C.
Job: 13-227
Sheet
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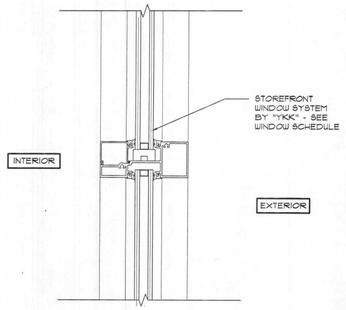
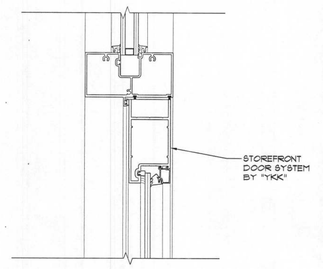
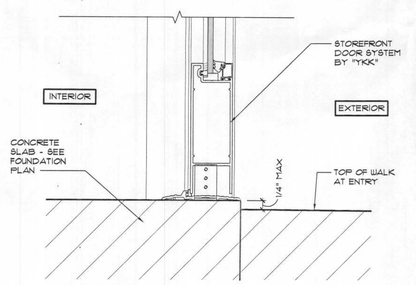


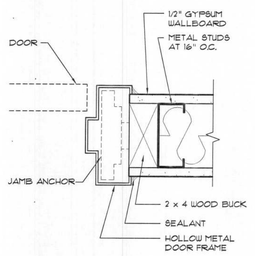
5 STOREFRONT MULLION DETAIL
SCALE: 3" = 1'-0"



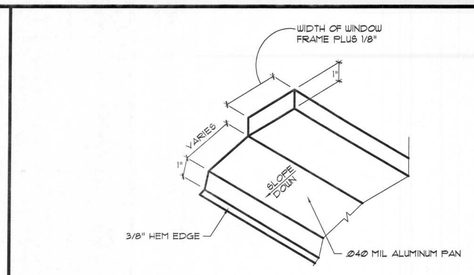
6 STOREFRONT DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



7 STOREFRONT DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"

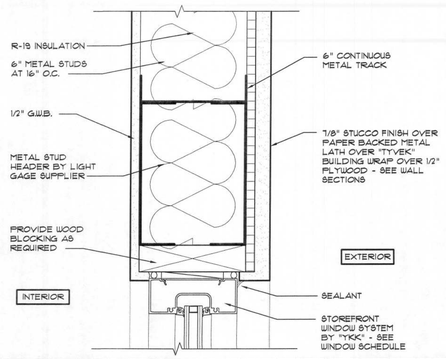


8 INTERIOR HEAD / JAMB DETAIL
SCALE: 3" = 1'-0"

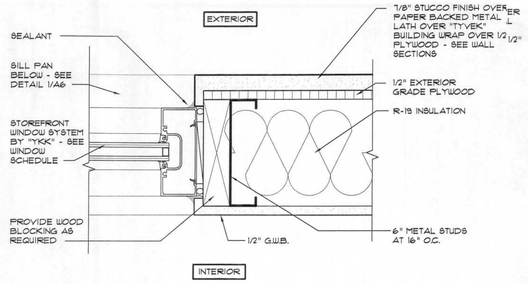


✱ ALL JOINTS MUST BE WATER TIGHT

1 SILL PAN DETAIL
SCALE: 3" = 1'-0"



2 STOREFRONT WINDOW SYSTEM HEAD DETAIL
SCALE: 3" = 1'-0"



3 STOREFRONT WINDOW SYSTEM JAMB DETAIL
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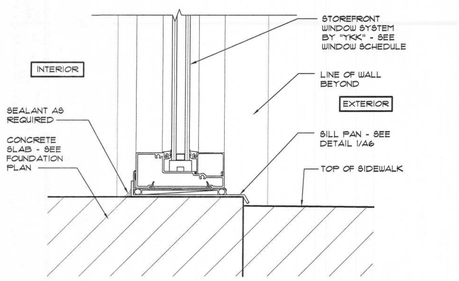
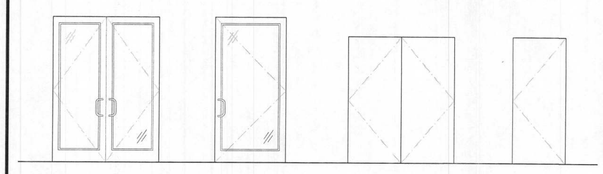


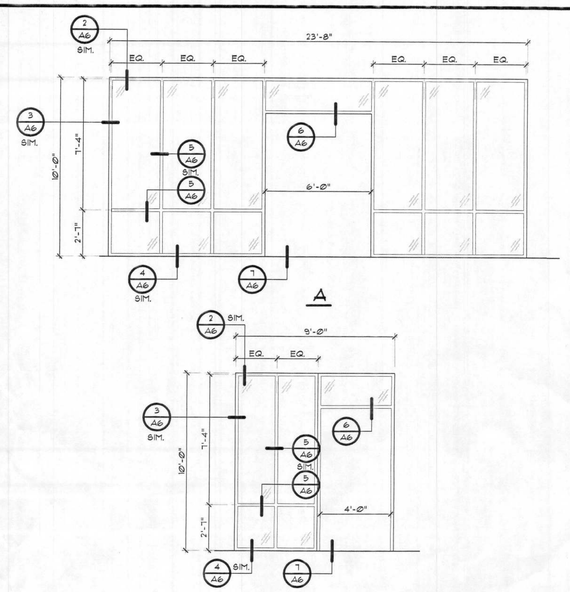
4 STOREFRONT WINDOW SYSTEM SILL DETAIL
SCALE: 3" = 1'-0"

DOOR TYPES



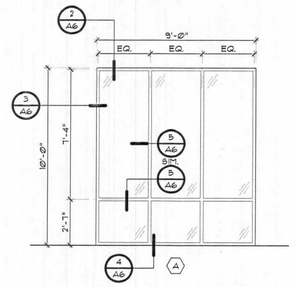
A STOREFRONT DOOR
B STOREFRONT DOOR
C SOLID CORE WOOD DOOR
D SOLID CORE WOOD DOOR

DOOR FRAME TYPES



*ALL INTERIOR WOOD DOORS AND FRAMES TO BE PAINTED TO MATCH TOILET ROOMS PAINT COLOR - SEE SHEET A1b FOR MORE INFORMATION

WINDOW TYPES



WINDOW SCHEDULE

TYPE	SIZE	MANF / DESIGNATION	REMARKS
A	9'-0" x 10'-0"	YKK YES 45 FI	1" INSULATED

GENERAL WINDOW NOTES

1. REFER TO MAUFACTURER SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
2. ALL EXTERIOR STOREFRONT WINDOW SYSTEMS ARE TO BE NON-IMPACT RATED INSULATED GLAZING WITH SOLAR GRAY TINT.
3. ALL EXTERIOR STOREFRONT WINDOW SYSTEMS TO HAVE CLEAR ANODIZED FINISH.
4. PRIOR TO INSTALLATION, SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL
5. FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION

DOOR SCHEDULE

NO.	TYPE	DOOR SIZE	DOOR MATERIAL	DOOR FIN.	DOOR F.R.	FRAME MAT.	FRAME FIN.	FRAME TYPE	HARDWARE	REMARKS	NO.
101a	A	(PAIR) 3'-0" x 8'-0"	AL	AN		AL	AN	A			101a
101b	B	4'-0" x 8'-0"	AL	AN		AL	AN	B			101b
102	C	(PAIR) 3'-0"x1'-0"x1 3/4"	S.C. WOOD	PNT		HM	PNT	C		1	102
103	-	NOT USED	-	-		-	-	-			103
104	D	3'-0"x1'-0"x1 3/4"	S.C. WOOD	PNT		HM	PNT	D			104
105	D	3'-0"x1'-0"x1 3/4"	S.C. WOOD	PNT		HM	PNT	D			105

REMARKS:
1. PROVIDE FLUSH BOLTS TOP AND BOTTOM AND ASTRAGAL AS REQUIRED.

HARDWARE SCHEDULE

ROOM	MATERIAL	MANUFACTURER
MENS REST ROOM (104)		
FRAME	3070 MH SERIES KD HM FRAME	REPUBLIC DOORS & FRAMES
DOOR	3070 1 3/4 SC ROTARY NAT BIRCH	FIVE LAKES MANUFACTURING
PRIVACY LOCK	3640 WITHNELL 26D LEVER	HAGER
CLOSER	5460 AL	HAGER
HINGES	1 1/2PR ECBB1100 4 1/2 x 4 1/2 26D	HAGER
KICKPLATE	(2) 1008 16" x 34" 32D	HAGER
FLOOR STOP	243F 26D	HAGER
SIGN	MH-68 "MEN" HDCP WITH BRAILE	CAL-ROYAL
WOMENS REST ROOM (105)		
FRAME	3070 MH SERIES KD HM FRAME	REPUBLIC DOORS & FRAMES
DOOR	3070 1 3/4 SC ROTARY NAT BIRCH	FIVE LAKES MANUFACTURING
PRIVACY LOCK	3640 WITHNELL 26D LEVER	HAGER
CLOSER	5460 AL	HAGER
HINGES	1 1/2PR ECBB1100 4 1/2 x 4 1/2 26D	HAGER
KICKPLATE	(2) 1008 16" x 34" 32D	HAGER
FLOOR STOP	243F 26D	HAGER
SIGN	MH-68 "WOMEN" HDCP WITH BRAILE	CAL-ROYAL
FILES / RECORDS (DOUBLE DOOR) (102)		
FRAME	6070 MH SERIES KD HM FRAME	REPUBLIC DOORS & FRAMES
DOOR	6070 1 3/4 SC ROTARY NAT BIRCH	REPUBLIC DOORS & FRAMES
PASSAGE	3610 WITHNELL 26D LEVER	HAGER
CLOSER	5460 AL	HAGER
HINGES	1 1/2PR ECBB1100 4 1/2 x 4 1/2 26D	HAGER
KICKPLATE	(2) 1008 16" x 34" 32D	HAGER
FLOOR STOP	243F 26D	HAGER
DOUBLE ENTRANCE / EXIT DOOR (STOREFRONT) (101a)		
FRAME	BY MANUFACTURER	YKK OR EQUAL
DOOR	BY MANUFACTURER	YKK OR EQUAL
EXIT DEVICE	N/A	N/A
DBL STRIKE	N/A	N/A
CLOSER	(1) PAIR CONCEALED OVERHEAD	YKK OR EQUAL
HINGES	(4) PAIR STANDARD BUTT 4 1/2"x4 1/2"	YKK OR EQUAL
LOCK SYSTEM	KEYED CYLINDER / THUMB TURN	YKK OR EQUAL
THRESHOLD	BY MANUFACTURER	YKK OR EQUAL
WEATHERSTRIP	BY MANUFACTURER	YKK OR EQUAL
DOOR SWEEP	BY MANUFACTURER	YKK OR EQUAL
DOOR PUSH/PULL	STANDARD 11 DIAMETER	YKK OR EQUAL
SINGLE EXIT DOOR (STOREFRONT) (101b)		
FRAME	BY MANUFACTURER	YKK OR EQUAL
DOOR	BY MANUFACTURER	YKK OR EQUAL
EXIT DEVICE	N/A	N/A
DBL STRIKE	N/A	N/A
CLOSER	CONCEALED OVERHEAD	YKK OR EQUAL
HINGES	(4) STANDARD BUTT 4 1/2"X4 1/2"	YKK OR EQUAL
LOCK SYSTEM	KEYED CYLINDER / THUMB TURN	YKK OR EQUAL
THRESHOLD	BY MANUFACTURER	YKK OR EQUAL
WEATHERSTRIP	BY MANUFACTURER	YKK OR EQUAL
DOOR SWEEP	BY MANUFACTURER	YKK OR EQUAL
DOOR PUSH/PULL	STANDARD 11 DIAMETER	YKK OR EQUAL

GENERAL DOOR NOTES

1. ALL DOORS/DOOR OPENINGS SHALL COMPLY WITH INTERNATIONAL FIRE PREVENTION CODE 2009 EDITION / NFPA 101 LIFE SAFETY CODE 7.2.1.2 WIDTH 7.2.1.4 SWING AND FORCE TO OPEN 7.2.1.5 LOCKS AND LATCHES AND ALARM DEVICES 7.2.1.6 SPECIAL LOCKING ARRANGEMENTS 7.2.1.7 PANIC HARDWARE AND FIRE EXIT DEVICES 7.2.1.8 SELF CLOSING DEVICES
2. ALL DOOR HANDLES SHALL BE LEVER TYPE MEETING A.D.A. REQUIREMENTS.
3. ALL DOORS WITH AUTO CLOSERS SHALL HAVE BALL BEARING TYPE HINGES
4. ALL EXTERIOR DOORS SHALL HAVE 32D FINISH HINGES.
5. ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPING.
6. DOOR CLOSER SHALL BE INSTALLED SUCH THAT THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (76MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 85LBF (37.5N).
8. SUBMIT HARDWARE SCHEDULE AND REVIEW WITH ARCHITECT PRIOR TO PLACING ORDER. (4 COPIES)
9. CONTRACTOR TO FIELD VERIFY ALL OPENING SIZES BEFORE ORDERING
10. PROVIDE WALL OR FLOOR DOOR STOP AT ALL DOORS TYPICAL
11. ALL STOREFRONT DOORS AND FRAMES TO HAVE CLEAR ANODIZED FINISH.
12. ALL STOREFRONT WINDOW SYSTEMS TO BE YKK OR EQUAL.

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
350 Jim Moran Blvd. Suite 100 Palm Harbor, FL 34684
Phone: 727 - 781 - 7505 • Fax: 727 - 781 - 9683
• www.oliverarchitects.com •

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Joseph L. Oliveri, AIA
State of Florida
License #AR0014028
JAN 8 2014

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Dawn: G.T.
Job: 13-227
Sheet
A6

DIVISION 1 GENERAL NOTES

SECTION 01340 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED
A. SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY CONTRACT DOCUMENTS, OR AS NECESSARY WHERE NOT INDICATED, SO ARCHITECT CAN REVIEW, SELECT, CHECK FOR CONFORMANCE, ETC., AS REQUIRED.

1.02 RELATED REQUIREMENTS
A. DESIGNATED IN THE CONSTRUCTION SCHEDULE, OR IN A SEPARATE COORDINATE SCHEDULE, THE DATES FOR SUBMISSION AND THE DATES THAT REVIEWED SHOP DRAWINGS, PRODUCT DATA AND SAMPLES WILL BE NEEDED. ALLOW SUFFICIENT TIME IN THE SCHEDULE FOR ARCHITECT REVIEW AND POSSIBLE RESUBMITTALS IF REQUIRED.

1.03 SHOP DRAWINGS
A. DRAWINGS SHALL BE PRESENTED IN A CLEAR AND THOROUGH MANNER.
1. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL, SCHEDULE OR ROOM NUMBERS SHOWN ON CONTRACT DRAWINGS.
2. SHEET SHALL BE LABELED WITH CORRECT JOB NAME, LOCATION, ARCHITECT'S PROJECT NUMBER, AND SUBCONTRACTOR'S COMPANY NAME, ADDRESS, PHONE NUMBER AND NAME OF RESPONSIBLE REPRESENTATIVE OF COMPANY.
3. DRAWINGS, DETAILS, ETC. SHALL CLEARLY ILLUSTRATE ALL COMPONENTS AND ADJACENT COMPONENTS OF THE WORK.

1.04 PRODUCT DATA
A. PREPARATION:
1. CLEARLY MARK EACH COPY TO IDENTIFY PERTINENT PRODUCTS OR MODELS WHICH ARE SPECIFICALLY COVERED BY THE SUBMITTAL. REFERENCE ALL NUMBERS TO CORRESPOND TO THOSE IN CONTRACT DOCUMENTS.
2. SHOW PERFORMANCE CHARACTERISTICS AND CAPACITIES.
3. SHOW DIMENSIONS AND CLEARANCES REQUIRED.
4. SHOW WIRING OR PIPING DIAGRAMS AND CONTROLS.
5. DELETE MODEL NUMBERS, DIAGRAMS, DETAILS, ETC., NOT APPLICABLE TO THE SUBMITTAL.
B. MANUFACTURER'S STANDARD SCHEMATIC DRAWINGS AND DIAGRAMS:
1. MODIFY DRAWINGS AND DIAGRAMS TO DELETE INFORMATION WHICH IS NOT APPLICABLE TO THE WORK.
2. SUPPLEMENT STANDARD INFORMATION TO PROVIDE INFORMATION SPECIFICALLY APPLICABLE TO THE WORK.

1.05 SAMPLES
A. OFFICE SAMPLES SHALL BE OF SIZE INDICATED, OR OF SUFFICIENT SIZE AND QUANTITY TO CLEARLY ILLUSTRATE :
1. FUNCTIONAL CHARACTERISTICS OF THE PRODUCT, WITH INTEGRALLY RELATED PARTS AND ATTACHMENT DEVICES AND TECHNIQUES.
2. FULL RANGE OF COLOR, TEXTURE AND PATTERN FOR ARCHITECT SELECTION AT NO ADDITIONAL COST. SUBMIT ONLY SPECIFIED COLOR RANGE IF DIFFERENT FROM MANUFACTURER'S STANDARD RANGE.
B. ALL SAMPLES OF A PARTICULAR PRODUCT, ASSEMBLY, UNIT, ETC., SHALL BE SUBMITTED AT THE SAME TIME TO ALLOW PROPER REVIEW AND COMPARISON BETWEEN SAMPLES.

1.06 SUBMITTALS
A. PERMITS, LICENSES, AND CERTIFICATES: FOR THE OWNER'S RECORDS, SUBMIT COPIES OF PERMITS, LICENSES, CERTIFICATIONS, INSPECTION REPORTS, RELEASES, JURISDICTIONAL SETTLEMENTS, NOTICES, RECEIPTS FOR FEE PAYMENTS, JUDGMENTS, AND SIMILAR DOCUMENTS, CORRESPONDENCE AND RECORDS ESTABLISHED IN CONJUNCTION WITH COMPLIANCE WITH STANDARDS AND REGULATIONS BEARING UPON PERFORMANCE OF THE WORK.

1.07 CONTRACTOR RESPONSIBILITIES
A. REVIEW SHOP DRAWINGS, PRODUCT DATA AND SAMPLES PRIOR TO SUBMISSION.
B. DETERMINE AND VERIFY:
1. FIELD MEASUREMENTS.
2. FIELD CONSTRUCTION CRITERIA.
3. CATALOG NUMBERS AND SIMILAR DATA.
4. CONFORMANCE WITH SPECIFICATIONS AND DRAWINGS.
C. COORDINATE EACH SUBMITTAL WITH REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. DO NOT SUBMIT NON-CONFORMING PRODUCTS.
D NOTIFY THE ARCHITECT IN WRITING, AT THE TIME OF SUBMISSION, OF ANY DEVIATIONS IN THE SUBMITTALS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS.
E. BEGIN NO FABRICATION OR WORK WHICH REQUIRES SUBMITTALS UNTIL RETURN OF SUBMITTALS WITH ARCHITECT'S CONFORMANCE REVIEW.
F. SUBMITTALS NOT PROPERLY REVIEWED BY CONTRACTOR FOR CONFORMANCE WITH CONTRACT DOCUMENTS SHALL BE RETURNED WITHOUT ARCHITECT'S REVIEW OR ACCEPTANCE.

1.08 SUBMISSION REQUIREMENTS
A. MAKE SUBMITTALS PROMPTLY IN ACCORDANCE WITH APPROVED SCHEDULE, AND IN SUCH SEQUENCE AS TO CAUSE NO DELAY IN THE WORK OR IN THE WORK OF ANY OTHER CONTRACTOR.
B. NUMBER OF SUBMITTALS REQUIRED:
1. SHOP DRAWINGS: SUBMIT THE NUMBER OF OPAQUE REPRODUCTIONS WHICH THE CONTRACTOR REQUIRES, PLUS THREE (3) COPIES WHICH WILL BE RETAINED BY THE ARCHITECT. MAXIMUM ACCEPTABLE SIZE IS 24" x 36" FOR ANY ONE SHEET.
2. PRODUCT DATA: SUBMIT THE NUMBER OF COPIES WHICH THE CONTRACTOR REQUIRES, PLUS THREE (3) WHICH WILL BE RETAINED BY THE ARCHITECT.
3. SAMPLES: SUBMIT THE NUMBER STATED IN EACH SPECIFICATION SECTION. IF NO NUMBER IS GIVEN, VERIFY CORRECT NUMBER WITH ARCHITECT PRIOR TO SUBMITTAL. MINIMUM OF TWO (2) SAMPLES.
4. PROVIDE SUBMITTALS AS REQUIRED BY THE INDIVIDUAL SECTION, BUT NO LESS THAN THAT STATED ABOVE.
C. SUBMITTALS SHALL CONTAIN:
1. THE DATE OF SUBMISSION AND THE DATES OF ANY PREVIOUS SUBMISSIONS.
2. THE PROJECT TITLE AND NUMBER.
3. CONTRACT IDENTIFICATION.
4. THE NAMES OF:
a. CONTRACTOR.
b. SUBCONTRACTOR.
c. SUPPLIER.
d. MANUFACTURER.
5. IDENTIFICATION OF THE PRODUCT, WITH THE SPECIFICATION SECTION NUMBER.
6. FIELD DIMENSIONS, CLEARLY IDENTIFIED AS SUCH.
7. RELATION TO ADJACENT OR CRITICAL FEATURES OF THE WORK OR MATERIALS.
8. APPLICABLE STANDARDS SUCH AS, BUT NOT LIMITED TO ASTM OR FEDERAL SPECIFICATION NUMBERS.
9. IDENTIFICATION OF DEVIATIONS FROM CONTRACT DOCUMENTS.
10. IDENTIFICATION OF OPTIONS AVAILABLE, BUT NOT INDICATED IN THE SPECIFICATIONS, SUCH AS COLOR, FINISH, TEXTURE, ETC. WITH COMPLETE SAMPLES OR LISTING INCLUDED IN THE SUBMITTAL FOR ARCHITECT'S SELECTION.
11. INDICATION OF TERMS TO BE INCLUDED IN THE WORK AND SHOWN ON THE SHOP DRAWINGS SHALL BE DIMENSIONED AND COORDINATED FOR PROPER FIT AND TIMELY INCLUSION.
12. IDENTIFICATION OF REVISIONS ON SUBMITTALS.
13. AN 8" x 3" BLANK SPACE FOR CONTRACTOR AND ARCHITECT STAMPS.
14. CONTRACTOR'S STAMPS, INITIALED OR SIGN, CERTIFYING THE REVIEW OF SUBMITTAL, VERIFICATION OF PRODUCTS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA, AND COORDINATION OF THE INFORMATION WITHIN THE SUBMITTAL WITH REQUIREMENTS OF THE WORK AND OF CONTRACT DOCUMENTS.

1.09 RESUBMISSION REQUIREMENTS
A. MAKE ANY CORRECTIONS OR CHANGES IN THE SUBMITTALS REQUIRED BY THE ARCHITECT AND RESUBMIT UNTIL ACCEPTED.
B. SHOP DRAWINGS AND PRODUCT DATA:
1. REVISE INITIAL DRAWINGS OR DATA, AND RESUBMIT AS SPECIFIED FOR THE INITIAL SUBMITTAL.
2. INDICATE ANY CHANGES WHICH HAVE BEEN MADE OTHER THAN THOSE REQUESTED BY THE ARCHITECT.
C. SAMPLES: SUBMIT NEW SAMPLES AS REQUIRED FOR INITIAL SUBMITTAL.

1.10 DISTRIBUTION
A. DISTRIBUTE REPRODUCTION OF SHOP DRAWINGS AND COPIES OF PRODUCT DATA WHICH CARRY THE ARCHITECT'S STAMP OF CONFORMANCE TO:
1. JOB SITE FILE.
2. RECORD DOCUMENTS FILE.
3. SUBCONTRACTORS.
4. SUPPLIER OR FABRICATOR.
5. OWNER (TO BE DISTRIBUTED BY THE ARCHITECT).

1.11 ARCHITECT'S DUTIES
A. REVIEW SUBMITTALS WITH REASONABLE PROMPTNESS AND IN ACCORD WITH SCHEDULE. ALLOW A MINIMUM OF TEN (10) WORKING DAYS FOR REVIEW, UNLESS SPECIAL HANDLING IS ARRANGED IN ADVANCE.
B. AFFIX STAMP AND INITIALS OR SIGNATURE, AND INDICATE REQUIREMENTS FOR RESUBMITTAL OR CONFORMANCE OF SUBMITTAL. ACCEPTANCE IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS OF MATERIALS WILL NOT BE REVIEWED. ACCEPTANCE OF A SUBMITTAL DOES NOT WAIVE OR ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
C. RETURN SUBMITTALS TO CONTRACTOR FOR DISTRIBUTION OR FOR RESUBMISSION.

END OF SECTION 01340

DIVISION 2 SITE WORK

NONE SPECIFIED

DIVISION 3 CONCRETE

SEE STRUCTURAL SPECIFICATIONS

DIVISION 4 MASONRY

NONE SPECIFIED

DIVISION 5 METALS

SECTION 05500 METAL FABRICATIONS

PART 1 GENERAL

1.01 MATERIALS
A. PROVIDE NEW OR BEST COMMERCIAL QUALITY FOR PURPOSE INTENDED, AND FREE FROM DEFECTS IMPAIRING STRENGTH , DURABILITY, AND APPEARANCE.
B. PROVIDE STEEL FOR MISCELLANEOUS STRUCTURAL FRAMING AND NON-STRUCTURAL FRAMING AS FOLLOWS
1. STRUCTURAL STEEL : ASTM A36
2. BRACKETS, FLANGES, AND ANCHORS : ASTM A36
3. FASTENERS, BOLTS, NUTS, WASHERS, AND OTHER FASTENERS CONFORMING TO APPROPRIATE FEDERAL SPECIFICATIONS OF TYPE, GRADE, AND CLASS REQUIRED. COMPLY WITH ASTM A307 FOR BOLTS OF 1/2 INCH OR LARGER. PROVIDE ZINC-COATED FASTENERS FOR EXTERIOR USE OR WHERE BUILT INTO EXTERIOR WALL.
C. FURNISH BENT OR OTHERWISE CUSTOM FABRICATED BOLTS, PLATES, ANCHORS, HANGERS, DOWELS, DRIP CAPS AT WINDOWS, DOORS, AND BRICK WAINSCOT, AND OTHER MISCELLANEOUS STEEL AND IRON SHAPES AS REQUIRED FOR FRAMING AND SUPPORTING WOODWORK, AND FOR ANCHORING OR SECURING WOODWORK TO CONCRETE.

1.02 PIPE BOLLARDS
A. FABRICATE PIPE BOLLARDS FROM SCHEDULE 80 STEEL PIPE. PIPE TO BE 4 INCHES IN DIAMETER, FILLED WITH CONCRETE. SET PIPE 4 FEET INTO CONCRETE SUPPORT 12 INCHES IN DIAMETER AND 4 FEET ABOVE GRADE.

END OF SECTION 05500

SECTION 05515 FIXED STEEL LADDERS

PART 1: GENERAL

1.01 SUMMARY
PAINTED STEEL FIXED VERTICAL LADDER INCLUDING LADDER, MOUNTING BRACKETS AND REQUIRED FASTENERS.

1.02 SYSTEM DESCRIPTION
A. THE SYSTEM IS A PAINTED STEEL LADDER TO BE ATTACHED TO A WALL. STANDARD RISER HEIGHT IS 12".
LADDER SHALL BE ABLE TO WITHSTAND 1,000 LB. LOADING WITHOUT FAILURE.

1.03 DELIVERY, STORAGE, AND HANDLING.
A. EXAMINE LADDER WHEN IT ARRIVES ON SITE. NOTIFY THE CARRIER AND MANUFACTURER OF ANY DAMAGE.
B. STORE LADDER UNTIL INSTALLATION UNDER ROOF.

1.04 WARRANTY
PROVIDE WARRANTY OF ONE (1) YEAR AGAINST DEFECTIVE MATERIAL AND WORKMANSHIP.

PART 2: PRODUCTS

2.01 MATERIALS
A. LADDER
1. SIDERAIL
A. STEEL CHANNEL.
B. 2 1/2" X 1 1/16" X 1/8" .
C. 1/8" MOLDED POLYURETHANE SAFETY CAP PROVIDED AT TOP.
D. 1/2" X 2" X 3" FLOOR BRACKET IF REQUIRED.
2. TREADS
A. STEEL
B. 2 1/4" X 3/4" X 1/4".
C. TREADS DEEPLY SERRATED FOR SAFETY.
3. MOUNTING BRACKET
2" X 3" X 1/4" STEEL ANGLE.

B. FABRICATION
1. THE LADDER IS COMPLETELY FABRICATED READY FOR INSTALLATION BEFORE SHIPMENT TO THE SITE.

E. FINISHES
1. PAINTED STEEL LADDER AND COMPONENTS.

PART 3: EXECUTION

3.01 INSTALLATION
INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

END OF SECTION 05515

DIVISION 6 WOOD and PLASTICS

NONE SPECIFIED

DIVISION 7 THERMAL AND MOISTURE PROTECTION

SECTION 07210 BUILDING INSULATION

PART 1 GENERAL

1.01 GENERAL
A. COAT INSULATION EXPOSED TO VIEW IN FINISH WORK WITH CEMENTITIOUS COATING. INSTALL COATING STRICTLY IN ACCORDANCE WITH COATING MANUFACTURER'S INSTRUCTION. APPLY COATING APPROXIMATELY 3/16" THICK. TEXTURE SURFACE WITH A PAINT ROLLER.

1.02 GENERAL BUILDING INSULATION
A. BLANKET INSULATION TO BE UNFACED, MINERAL FIBER WITH THERMOSETTING RESINS, TYPE 1. MINERAL FIBER SHALL BE MANUFACTURED FROM GLASS.
B. APPLY INSULATION UNITS COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL BLANKET INSULATION IN STUD WALLS. BOND UNITS TO SUBSTRATE WITH ADHESIVE OR USE MECHANICAL ANCHORAGE TO PROVIDE PERMANENT PLACEMENT.

1.03 LOOSE INSULATION
A. SAME AS GENERAL BUILDING INSULATION. FILL CRACKS AND VOIDS AROUND FRAMES AND BLOCKING AND OTHER VOIDS IN EXTERIOR WALL AND VOIDS AROUND CANTS, CURBS, AND BLOCKING IN AND ABOUT THE ROOF WITH LOOSE INSULATION. WEDGE IN PLACE CORNERS AND INTERSECTIONS BEFORE SHEETING OF EXTERIOR, COMPLETELY FILLING VOIDS.

1.04 SOUND ATTENUATING INSULATION
A. SOUND INSULATION SHALL BE INSTALLED IN STUD WALLS AND CEILINGS WHERE INDICATED ON THE DRAWINGS. FIT INSULATION TIGHTLY BETWEEN STUD MEMBERS.

1.05 TAPERED ROOF INSULATION
A. PROVIDE AND INSTALL TAPERED ROOF INSULATION SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED IN THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING
1. CELOTEX CORPORATION, TAMPA, FL. (813) 873-4173

1.06 RELATED WORK
A. SPECIFIED ELSEWHERE, INCLUDES, BUT NOT LIMITED TO, FURNISHING AND INSTALLING SUCH ITEMS AS ROOF MEMBRANE SYSTEM, NAILERS, MECHANICAL FASTENERS, FLASHING, ETC.

DIVISION 7 THERMAL AND MOISTURE PROTECTION

PART 2 PRODUCTS

2.01 MATERIAL DESCRIPTION
A. THICK - R-5
AT WALL CAVITIES
1. 4" WALLS : INSTALL OWENS CORNING KRAFT FACED R-11 INSULATION
2. 6" WALLS : INSTALL OWENS CORNING KRAFT FACED R-19 INSULATION
B. AT CEILINGS
1. INSTALL OWENS CORNING KRAFT FACED R-19 OR R-30 INSULATION AS SPECIFIED IN DRAWINGS
C. AT SOUND PARTITIONS
1. INSTALL OWENS CORNING QUIET ZONE NOISE CONTROL BATTS

PART 3 EXECUTIONS

3.01 INSULATION APPLICATION
A. INSTALL THE FLAT AND TAPERED INSULATION LOOSELY OVER THE SUBSTRATE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
B. START THE BOARDS FROM THE ROOF DRAINS AND WORK TOWARD THE HIGH POINT. INSTALL TAPERED BOARDS ACCORDING TO LETTERS STENCILED ON THE BOARD. DIRECTION IS ALSO STENCILED ON ALL BOARDS. STAGGER JOINTS OF UNDERLAYMENT BOARDS FROM TAPER BOARDS.

END OF SECTION 07210

SECTION 07530 SINGLE PLY THERMOPLASTIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 GENERAL
A. OBTAIN PRIMARY FLEXIBLE SHEET ROOFING FROM A SINGLE MANUFACTURER. PROVIDE SECONDARY MATERIALS AS RECOMMENDED BY MANUFACTURER OF PRIMARY MATERIALS. DO NOT BEGIN ROOFING INSTALLATION UNTIL SUBSTRATES HAVE BEEN INSPECTED AND ARE DETERMINED TO BE IN SATISFACTORY CONDITION.
B. PROVIDE ROOFING MATERIALS RECOGNIZED TO BE A TYPE INDICATED AND TESTED TO SHOW COMPLIANCE WITH PERFORMANCE IN APPLICATION, OR PROVIDE OTHER SIMILAR MATERIALS CERTIFIED IN WRITING BY MANUFACTURER TO BE EQUAL TO OR BETTER THAN MATERIALS SPECIFIED IN EVERY RESPECT. PROVIDE PRODUCTS THAT ARE RECOMMENDED BY MANUFACTURERS TO BE FULLY COMPATIBLE WITH INDICATED SUBSTRATES, OR PROVIDE SEPARATE MATERIALS AS REQUIRED TO ELIMINATE CONTACT BETWEEN INCOMPATIBLE MATERIALS.
C. ROOFING MEMBRANE USED SHALL BE A MINIMUM OF 45 MILS (ACTUAL) WITH THE EXPOSED COLOR BEING WHITE.

1.02 WARRANTY
A. SUBMIT EXECUTED COPY OF SINGLE PLY MEMBRANE MANUFACTURER'S "LIMITED SERVICE WARRANTY" AGREEMENT, INCLUDING FLASHING ENDORSEMENT, SIGNED BY AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER. PROVIDE FORM THAT IS PUBLISHED WITH PRODUCT LITERATURE AS OF DATE OF CONTACT DOCUMENTS, FOR A PERIOD OF TEN YEARS AFTER DATE OF SUBSTANTIAL COMPLETION.

PART 2 PRODUCTS

2.01 MANUFACTURER/PRODUCTS
A. MECHANICALLY FASTENED POLYMER MAMBRANE: APPROVED PRODUCTS: THERMOPLASTIC MEMBRANE: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED IN THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING
1. DURO-LAST ROOFING, SAGINAW, MICHIGAN, 800-248-0280
2. FIRESTONE ULTRAPLY 78+, CARMEL, INDIANA, 317-575-7000
3. J.P.S. ELASTOMETRICS CORP., NORTHAMPTON, MASSACHUSETTS, 413-533-8100

PART 3 EXECUTION

3.01 INSTALLATION
A. INSTALL MEMBRANE BY UNROLLING OVER PREPARED SUBSTRATE, LAPPING ADJOINING SHEETS AS RECOMMENDED BY MANUFACTURER, AND BONDING AND SEALING SEAMS. INSTALL MECHANICAL FASTNERS AS RECCOMMENDED BY MANUFACTURER. INSTALL FLASHING AND COUNTER FLASHING AS SHOWN OR RECOMMENDED BY MANUFACTURER.
B. ENGAGE AN EXPERIENCED INSTALLER TO APPLY SINGLE PLY MEMBRANE ROOFING WHO HAS SPECIALIZED IN APPLICATION OF ROOFING SYSTEMS SIMILAR TO THOSE REQUIRED FOR THIS PROJECT. INSTALLER MUST BE ACCEPTABLE TO OR LICENSED BY THE MANUFACTURER, "PROOF WILL BE REQUIRED".
C. WORK ASSOCIATED WITH THE SINGLE PLY MEMBRANE ROOFING, INCLUDING, BUT NOT LIMITED TO, FLASHING AND COUNTER FLASHING, SCUPPERS AND DOWN SPOUTS, IS TO BE PERFORMED BY THE INSTALLER.

END OF SECTION 07530

SECTION 07620 SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SUBMITTALS
A. PRODUCT DATA: NOT REQUIRED.
B. SHOP DRAWINGS: NOT REQUIRED.
C. SAMPLES: NOT REQUIRED.

1.02 QUALITY ASSURANCE
A. QUALITY STANDARDS: SMACNA - ARCHITECTURAL SHEET METAL MANUAL.

PART 2 PRODUCTS

2.01 MANUFACTURERS/PRODUCTS
A. GALVANIZED STEEL: G90 COATING CLASS: 24 GAUGE, 0.5 MM CORE STEEL.

2.02 ACCESSORIES/MIXES
A. FASTENERS: SAME MATERIAL AND FINISH AS FLASHING METAL.
B. DOWNSPOUT SUPPORTS: STRAPS.
C. SPLASH PANS: PRECAST CONCRETE.

2.03 FABRICATION
A. DOWNSPOUTS: SQUARE PROFILE.

PART 3 EXECUTION

3.1 INSTALLATION
A. CONFORM TO DRAWING DETAILS INCLUDED IN SMACNA, AND AS INDICATED ON DRAWINGS.

END OF SECTION 07620

SECTION 07631 GUTTERS AND DOWNSPOUTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS
A. THE REQUIREMENTS OF DIVISION 1 APPLY TO ALL WORK HEREUNDER.

1.02 REFERENCES
A. SMACNA (ASMM) - ARCHITECTURAL SHEET METAL MANUAL. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, 1993, FIFTH EDITION

1.03 SUBMITTALS
A. SEE SECTION 01300 - ADMINISTRATIVE REQUIREMENTS, FOR SUBMITTAL PROCEDURES
B. PRODUCT DATA: PROVIDE DATA ON PREFABRICATED COMPONENTS

1.04 DELIVERY, STORAGE AND PROTECTION
A. STACK MATERIAL TO PREVENT TWISTING, BENDING OR ABRASION AND TO PROVIDE VENTILATION. SLOPE TO DRAIN
B. PREVENT CONTACT WITH MATERIALS DURING STORAGE WHICH MAY CAUSE DISCOLORATION, STAINING, OR DAMAGE

PART 2 PRODUCTS

1.01 MATERIALS

1.02 COMPONENTS
A. GUTTERS: SMACNA RECTANGULAR
B. DOWNSPOUTS: SMACNA RECTANGULAR PROFILE.
C. ANCHORS AND SUPPORTS: PROFILED TO SUIT GUTTERS AND DOWNSPOUTS.
1. ANCHORING DEVICES: IN ACCORDANCE WITH SMACNA REQUIREMENTS.
2. GUTTER SUPPORTS: STRAPS
3. DOWNSPOUT SUPPORTS: BRACKETS.
D. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS.

2.03 FABRICATION
A. FORM GUTTERS AND DOWNSPOUTS OF PROFILES AND SIZE INDICATED
B. FABRICATE WITH REQUIRED CONNECTION PIECES.
C. FORM SECTIONS SQUARE, TRUE AND ACCURATE IN SIZE, IN MAXIMUM POSSIBLE LENGTHS, FREE OF DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE. ALLOW FOR EXPANSION AT JOINTS.
D. HEM EXPOSED EDGES OF METAL.
E. FABRICATE GUTTER AND DOWNSPOUT ACCESSORIES, SEAL WATERTIGHT.

2.04 FACTORY FINISHING
A. CLASS 1 COLOR ANODIZED FINISH: AAMA 606.1 AA-M12C22A42, INTEGRALLY COLORED ANODIC COATING NOT LESS THAN 0.7 MILS THICK. COLOR TO MATCH METAL ROOF.

DIVISION 7 THERMAL AND MOISTURE PROTECTION (CONT.)

PART 3 EXECUTION

3.01 EXAMINATION
A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.
B. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK.

3.02 INSTALLATION
A. INSTALL GUTTERS, DOWNSPOUTS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
B. SLOPE GUTTERS 1/8 INCH PER FOOT (mm/m)
C. CONNECT DOWNSPOUTS TO STORM SEWER SYSTEM. SEAL CONNECTION WATERTIGHT.

END OF SECTION 07631

SECTION 07900 JOINT SEALERS

PART 1 GENERAL

1.01 GENERAL
A. PROVIDE JOINT SEALERS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE. PROVIDE COLORS TO MATCH ADJACENT FINISH SURFACES.
B. PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE WHICH ARE NONSTAINING, ARE COMPATIBLE WITH JOINT SUBSTRATE, SEALANTS, PRIMERS, AND OTHER FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER.
C. SEALANTS: SEALANTS SHALL BE AS FOLLOWS OR EQUAL:
1. ONE-PART POLYURETHANE: SONNEBORNE SONALASTIC NP1
2. TWO-PART POLYURETHANE: SONNEBORNE SONALASTIC NP11
3. SILICONE: DOW CHEMICAL SILICONE RUBBER BATHTUB CAULK
D. COMPLY WITH JOINT SEALER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED. CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALERS. PRIME WHERE RECOMMENDED BY SEALER MANUFACTURER. DO NOT ALLOW MIGRATION OF PRIMER ONTO ADJACENT SURFACES. MASK WHERE REQUIRED TO PROTECT ADJOINING SURFACES FOR STAINING OR DAMAGE BY CLEANING METHODS TO REMOVE SMEARS.
E. APPLY SEALANTS IN A MANNER SO THAT APPEARANCE IS THAT OF A SMOOTH, UNIFORM, SLIGHTLY CONCAVE BEAD. TOOL WITH CAULKING TOOL AS REQUIRED WITHIN 10 MINUTES OF APPLICATION. ALL SEALED JOINTS ARE TO BE WATER-TIGHT.
F. BACKER ROD: POLYETHYLENE FOAM BACKER ROD, NONSTAINING, CLOSED-CELL, EXPANDED POLYETHYLENE FOAM AS MANUFACTURED BY DOW CHEMICAL ETHLFOAM. FURNISH WITH ROUND EDGE IN THICKNESS REQUIRED.

END OF SECTION 07900

DIVISION 8 DOORS AND WINDOWS

SECTION 08211 FLUSH WOOD DOORS

PART 1 GENERAL

1.01 GENERAL
A. DO NOT DELIVER DOORS OR INSTALL UNTIL CONDITIONS FOR TEMPERATURE AND RELATIVE HUMIDITY HAVE BEEN STABILIZED AND WILL BE MAINTAINED IN STORAGE AND INSTALLATION AREAS DURING REMAINDER OF CONSTRUCTION PERIOD.

1.02 INTERIOR FLUSH WOOD SOLID CORE DOORS
A. PROVIDE DOORS 1 3/4", 5 OR 7 PLY, PARTICLE BOARD CORE, CONFORMING TO AWI SECTION 1300 FACE VENEER SHALL BE PREMIUM GRADE, STAIN GRADE BIRCH. EDGE STRIPS SHALL BE HARDWOOD. STILE EDGE SHALL NOT BE LESS THAN 2 3/8" THICK EDGE BEFORE TRIMMING AND SHALL BE SPECIES COMPATIBLE WITH FACE VENEER TOP AND BOTTOM AND BOTTOM EDGE SHALL NOT BE LESS THAN 1 1/8" BEFORE TRIMMING.

1.03 HARDWARE
A. PREPARE DOOR TO RECEIVE HARDWARE IN ACCORDANCE WITH THE DOOR SCHEDULE AND TEMPLATES PROVIDED BY THE HARDWARE MANUFACTURER.
B. PREPARATION OF FIRE DOORS TO BE DONE AT THE FACTORY OR AN APPROVED "UL" OR "WARNOCK HERSEY" SHOP.

END OF SECTION 08211

SECTION 08410 ALUMINUM SWING ENTRANCES

PART 1 GENERAL

1.01 SUMMARY
A. SECTION INCLUDES: ALUMINUM SWING DOORS, INCLUDING:
1. YKK AP SERIES 35D MEDIUM STILE SWING ENTRANCES.
B. RELATED SECTIONS:
1. GLASS AND GLAZING: REFER TO DIVISION 8 GLASS AND GLAZING SECTION FOR GLASS AND GLAZING REQUIREMENTS.

1.02 SYSTEM PERFORMANCE DESCRIPTION
A. PERFORMANCE REQUIREMENTS: PROVIDE ALUMINUM SWING DOORS THAT DOORS THAT COMPLY WITH PERFORMANCE REQUIREMENTS INDICATED, AS DEMONSTRATED BY TESTING MANUFACTURES ASSEMBLIES IN ACCORDANCE WITH TEST METHODS INDICATED.
1. AIR INFILTRATION (SINGLE ACTING BUTT HINGES OR OFFSET PIVOTS): AIR INFILTRATION SHALL BE TESTED BE TESTED IN ACCORDANCE WITH ASTM E 283 AT STATIC PRESSURE OF 1.57psf (75pa.) INFILTRATION SHALL NOT EXCEED THE FOLLOWING:
a. PAIR OF DOORS: 0.18 CFM/FT (1.02m³/h-m) OF CRACK LENGTH.
b. SINGLE DOORS: 0.50 CFM/FT (2.84m³/h-m) OF CRACK LENGTH.
2. STRUCTURAL: DOOR CORNER STRUCTURAL STRENGTH TEST USING A DUAL MOMENT LOADING CRITERIA AS FOLLOWS.
a. A REPRESENTATIVE CORNER SECTION CONSISTING OF A 12 INCH TOP RAIL AND A 24 INCH LONG STILE.
b. TOP RAIL OF EACH SECTION IS ANCHORED TO A FIXED SURFACE AT 3 INCHES FROM CORNER JOINT, A LOAD ARM WAS SUBSEQUENTLY MOUNTED AT 19 INCHES FROM INSIDE EDGE OF TOP TOP RAIL ON SUSPENDED SIDE RAIL.
c. A LOAD WAS APPLIED TO THE LOAD ARM AT 19 INCHES FROM INSIDE EDGE OF SIDE RAIL AND AMOUNT OF ROTATION OF LOAD ARM OBSERVED. PROCESS WAS REPEATED AT INCREASING LOADS UNTIL POINT OF FAILURE DEFINED AS GREATER THAN 45 DEGREES ROTATION OF LOAD ARM OCCURRED.
d. TEST RESULTS SHALL BE SUPPORTED BY AN INDEPENDENT LABORATORY TEST REPORT, AS FOLLOWS: SPECIFY BELOW LOAD FOR THE APPROPRIATE YKK AP SWING DOOR: FOR YKK AP MODEL 20D AND 20DH, SPECIFY 245lbs, FOR YKK AP MODEL 35D, SPECIFY 290lbs, FOR YKK AP MODEL 50D, SPECIFY 300lbs.
1) YKK AP MODEL: SWING DOOR, lbs.
3. STRUCTURAL UNIFORM LOAD TEST:
a. SINGLE DOORS: 90psf.
b. PAIR OF DOORS: 90psf.
4. FORCED ENTRY RESISTANCE: 300lbs. SATISFACTORY.

1.03 PROJECT CONDITIONS / SITECONDITIONS
A. FIELD MEASUREMENTS: VERIFY ACTUAL MEASUREMENTS/OPENINGS BY FIELD MEASUREMENTS BEFORE FABRICATION, SHOW RECORDED MEASUREMENTS ON SHOP DRAWINGS. COORDINATE FIELD MEASUREMENTS, FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID CONSTRUCTION DELAYS.

1.04 SUBMITTALS
A. GENERAL: PREPARE, REVIEW, APPROVE, AND SUBMIT SPECIFIED SUBMITTALS IN ACCORDANCE WITH "CONDITIONS OF THE CONTRACT" AND DIVISION 1 SUBMITTALS SECTIONS. PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND SIMILAR SUBMITTALS ARE DEFINED IN " CONDITIONS OF THE CONTRACT."
B. PRODUCT DATA: SUBMIT PRODUCT DATA FOR EACH ENTRANCE SERIES SPECIFIED.
C. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS SHOWING LAYOUT, PROFILES, AND PRODUCT COMPONENTS, INCLUDING ANCHORAGE, ACCESSORIES AND FINISH COLORS.
D. SAMPLES: SUBMIT VERIFICATION SAMPLES FOR COLORS. MINIMUM 2-1/2 INCH BY 3 INCH (61mm BY 73mm) SAMPLES ON ACTUAL ALUMINUM SUBRATES FULL COLOR RANGE EXPECTED IN INSTALLED SYSTEM.
E. QUALITY ASSURANCE / CONTROL SUBMITTALS:
1. TEST REPORTS: SUBMIT CERTIFIED TEST REPORTS SHOWING COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.
2. INSTALLER QUALIFICATION DATA: SUBMIT INSTALLER QUALIFICATION DATA.
F. CLOSEOUT SUBMITTALS:
1. WARRANTY: SUBMIT EXECUTED WARRANTY DOCUMENTS SPECIFIED HEREIN, ENDORSED BY YKK AP AUTHORIZED OFFICIAL AND INSTALLER.
2. PROJECT RECORD DOCUMENTS: SUBMIT RECORD DOCUMENTS, INCLUDING OPERATION AND MAINTENANCE DATA FOR INSTALLED MATERIALS IN ACCORDANCE WITH DIVISION 1 PROJECT CLOSEOUT (PROJECT RECORD DOCUMENTS) SECTION.
a. MAINTENANCE DATA: MAINTENANCE PROCEDURES FOR CARE CLEANING OF ENTRANCE SYSTEMS.

1.05 QUALITY ASSURANCE
A. QUALIFICATIONS:
1. INSTALLER QUALIFICATIONS: INSTALLER EXPERIENCED (AS DETERMINED BY CONTRACTOR) TO PERFORM WORK OF THIS SECTION WHO HAS SPECIALIZED IN THE INSTALLATION OF WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT. IF REQUESTED BY OWNER, SUBMIT REFERENCE LIST OF COMPLETED PROJECTS.
2. MANUFACTURE QUALIFICATIONS: MANUFACTURER CAPABLE OF PROVIDING FIELD SERVICE REPRESENTATION DURING CONSTRUCTION, APPROVING ACCEPTABLE INSTALLER AND APPROVING APPLICATION METHOD.

1.06 WARRANTY
A. PROJECT WARRANTY: REFER TO "CONDITIONS OF THE CONTRACTOR" FOR PROJECT WARRANT PROVISIONS.
B. MANUFACTURER'S WARRANTY: SUBMIT, FOR OWNER'S ACCEPTANCE, MANUFACTURER'S STANDARD WARRANTY DOCUMENT EXECUTED BY AUTHORIZED COMPANY OFFICIAL. MANUFACTURER'S WARRANTY IS IN ADDITION TO, AND NOT A LIMITATION OF, OTHER RIGHTS OWNER MAY HAVE UNDER THE CONTRACT DOCUMENTS.
1. BENEFICIARY: ISSUE WARRANTY IN THE LEGAL NAME OF THE PROJECT OWNER.
2. WARRANTY PERIOD: YEARS COMMENCING ON DATE OF SUBSTANTIAL COMPLETION.
3. WARRANTY ACCEPTANCE: OWNER IS SOLE AUTHORITY WHO WILL DETERMINE ACCEPTABILITY OF MANUFACTURER'S WARRANTY DOCUMENTS.

DIVISION 8 DOORS AND WINDOWS (CONT.)

PART 2 PRODUCTS

2.01 MANUFACTURERS (ACCEPTABLE MANUFACTURERS / PRODUCTS)
A. ACCEPTABLE MANUFACTURERS: YKK AP AMERICA INC.
5630 GWALTNEY DRIVE
ATLANTA, GA 30336
TELEPHONE: (404) 629-3800, FAX: (404) 629-3838
1. MEDIUM STILE SWING DOORS: YKK AP SERIES 35D MEDIUM STILE DOORS.
a. DESCRIPTION: 3-1/2" (88.9) DOOR STILE
2. CORNER CONSTRUCTION: FABRICATE DOOR CORNERS JOINED BY CONCEALED REINFORCEMENT SECRED WITH SCREWS, AND SIGMA DEEP PENETRATION WELDING.
3. GLAZING STOPS: MANUFACTURER'S STANDARD SNAP-IN GLAZING STOPS WITH EPDM GLAZING GASKETS TO PREVENT WATER INFILTRATION.
4. WEATHER-STRIPPING: MANUFACTURER'S STANDARD PILE TYPE IN REPLACEABLE RABBETS FOR STIL'S, MANUFACTURER'S STANDARD EPDM BULB TYPE IN DOOR FRAMES.
5. HARDWARE: MANUFACTURER'S STANDARD AS SELECTED BY ARCHITECT.

2.02 MATERIALS
A. EXTRUSIONS: ASTM B 221 (ASTM B 221M), 6063-T5 ALUMINUM ALLOY.
B. ALUMINUM SHEET:
1. ANODIZED FINISH: ASTM B 209 (ASTM B 209M), 5005-H14 ALUMINUM ALLOY, 0.050 INCH (1.27mm) MINIMUM THICKNESS.

2.03 ACCESSORIES
A. MANUFACTURER'S STANDARD ACCESSORIES:
1. FASTENERS: ZINC PLATED STEEL CONCEALED FASTENERS, HARDENED ALUMINUM ALLOYS OR AISI 300 SERIES STAINLESS EXPOSED FASTENERS, COUNTERSUNK, FINISH TO MATCH ALUMINUM COLOR.
2. SEALANT: NON-SKINNING TYPE, AAMA 803.3.
3. GLAZING: SETTING BLOCKS, EDGE BLOCKS, AND SPACERS IN ACCORDANCE WITH ASTM C 864, SHORE DUROMETER HARDNESS AS RECOMMEND BY MANUFACTURER, GLAZING GASKETS IN ACCORDANCE WITH ASTM C 864.

2.04 FABRICATION
A. SHOP ASSEMBLY: FABRICATE AND ASSEMBLE UNITS WITH JOINTS ONLY AT INTERSECTION OF ALUMINUM MEMBERS WITH UNIFORM HAIRLINE JOINTS, RIGIDLY SECURE, AND SEALED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
1. HARDWARE: DRILL AND CUT TEMPLATE FOR HARDWARE. REINFORCE FRAMES AND DOOR STILES TO RECEIVE HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. WELDING: CONCEAL WELDS ON ALUMINUM MEMBERS IN ACCORDANCE WITH AWS RECOMMENDATIONS OR METHODS RECOMMENDED BY MANUFACTURER. MEMBERS SHOWING WELDING BLOOM OR DISCOLORATON ON FINISH OR MATERIAL DISTORTION WILL BE REJECTED.
B. FABRICATION TOLERANCES:
1. MATERIAL CUTS: SQUARE TO 1/32 INCH (0.8mm) OFF SQUARE, MAXIMUM, OVER LARGEST DIMENSION, PROPORTIONATE AMOUNT OF 1/32 INCH (0.8mm) ON OTHER TWO DIMENSIONS.
2. MAXIMUM OFFSET: 1/64 INCH (0.4mm) IN ALIGNMENT BETWEEN TWO CONSECUTIVE MEMBERS IN LINE, END TO END.
3. MAXIMUM OFFSET: 1/64 INCH (0.4mm) BETWEEN FRAMING MEMBERS AT GLAZING POCKET CORNERS.
4. JOINTS (BETWEEN ADJACENT MEMBERS IN SAME ASSEMBLY): HAIRLINE AND SQUARE TO ADJACENT MEMBER.
5. VARIATION (IN SQUARING DIAGONALS FOR DOORS AND FABRICATED ASSEMBLIES): 1/16 INCH (1.6mm).
6. FLATNESS (FOR DOORS AND FABRICATED ASSEMBLIES): ± 1/16 INCH (1.6mm) OFF NEUTRAL PLANE.

2.05 FINISHES AND COLORS
A. ANODIZED FINISH: YKK AP AMERICA ANODIZED FINISH:
1. CLEAR: YKK AP YS1N WITH CLEAR PROTECTIVE COMPOSITE COATING.
B. FINISHING PREPARE ALUMINUM SURFACES FOR SPECIFIED FINISH, APPLY FINISH IN ACCORDANCE WITH THE FOLLOWING:
1. ANODIZED COATING: ELECTROLYTIC COLOR COATING FOLLOWED BY AN ORGANIC TOP COATING APPLIED TO ALUMINUM EXTRUSIONS PRODUCED FROM QUALITY CONTROLLED BILLETS MEETING AA-6063-T5.
a. EXPOSED SURFACES SHALL BE FREE OF SCRATCHES AND OTHER SERIOUS BLEMISHES.
b. EXTRUSION SHALL BE GIVEN A CAUSTIC ETCH FOLLOWED BY AN ANODIC OXIDE TREATMENT AND SEALED WITH AN ORGANIC ELECTRODEPOSITION APPLIED PROTECTIVE TOP COATING.
c. OVERALL COATING THICKNESS FOR FINISHES SHALL BE A MINIMUM OF 0.7 MILS.
d. COATING SHALL CONFORM TO ALUMINUM ASSOCIATION STANDARD AAM12C22A4X. A4X DESIGNATION SHALL SIGNIFY AN ANODIC COATING OF 0.4 MILS MINIMUM FOLLOWED BY AN ORGANIC TOP COATING OF A MINIMUM 0.3 MILS.
IN ADDITION TO THE ALUMINUM ASSOCIATION STANDARD ABOVE, FINISH SHALL CONFORM TO THE FOLLOWING:
1) AAMA 605.2 MORTAR RESISTANCE TEST SPECIFICATION, TEST METHOD PER ASTM C207, 24 HOUR PAT TEST.
2) CASS CORROSION RESISTANCE TEST. CASS 240/ ASTM B368 TEST METHOD.
OTHER AAMA 605.2 PERFORMANCE TESTS SPECIFIED IN THESE SPECIFICATIONS, SUCH AS: 7.3 DRY FILM
3) HARDNESS, 7.8.2 SALT SPRAY RESISTANCE, 7.9.1.2 COLOR RETENTION, SOUTH FLORIDA, 7.9.4.1.4 GLOSS RETENTION, SOUTH FLORIDA.
C. HIGH PERFORMANCE ORGANIC COATING FINISH:
1. TYPE FACTORY APPLIED TWO-COAT 70% KYNAR RESIN BY AUTO CHEM OR 70% HYLAR RESIN BY AUSIMONT, FLOUROPOLYMER BASED COATING SYSTEM, POLYVINLYIDENE FLUORIDE (PVF-2). APPLIED IN ACCORDANCE WITH YKK AP PROCEDURES AND MEETING AAMA 605.2 SPECIFICATIONS.
2. COLORS: SELECTED BY ARCHITECT FROM THE FOLLOWING:
a. STANDARD COATING COLOR CHARTS.
b. CUSTOM COATING COLOR CHARTS.
c. COLOR NAME AND NUMBER.
D. FINISHES TESTING:
1. APPLY 0.5% SOLUTION NaOH, SODIUM HYDROXIDE, TO SMALL AREA OF FINISHED SAMPLE AREA, LEAVE IN PLACE FOR SIXTY MINUTES, LIGHTLY WIPE OFF NaOH, DO NOT CLEAN AREA FURTHER.
SUBMIT SAMPLES WITH TEST AREA NOTED ON EACH SAMPLE.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS
A. COMPLIANCE: COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLEINS, PRODUCT CATALOG INSTALLATION INSTRUCTIONS, AND PRODUCT CARTON INSTRUCTIONS.

3.02 EXAMINATION
A. SITE VERIFICATION OF CONDITIONS: VERIFY CONDITIONS (WHICH HAVE BEEN PREVIOUSLY INSTALLED UNDER OTHER SECTIONS) ARE ACCEPTABLE FOR PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
1. VERIFY LOCATION OF PRESET ANCHORS, PERIMETER FASTENERS, AND BLOCK-OUTS ARE IN ACCORDANCE WITH SHOP DRAWINGS.

3.03 PREPARATION
A. ADJACENT SURFACES PROTECTION: PROTECT ADJACENT WORK AREAS AND FINISH SURFACES FROM DAMAGE DURING PRODUCT INSTALLATION.
1. ALUMINUM SURFACE PROTECTION: PROTECT ALUMINUM SURFACES FROM CONTACT WITH LIME, MORTAR, CEMENT, ACIDS, AND OTHER HARMFUL CONTAMINANTS.

3.04 INSTALLATION
A. GENERAL: INSTALL MANUFACTURER'S SYSTEM IN ACCORDANCE WITH SHOP DRAWINGS, AND WITHIN SPECIFIED TOLERANCES.
1. PROTECT ALUMINUM MEMBERS IN CONTACT WITH MASONRY, STEEL, CONCRETE, OR DISSIMILAR MATERIALS USING NYLON PADS OR BITUMINOUS COATING.
2. SHIM AND BRACE ALUMINUM SYSTEM BEFORE ANCHORING TO STRUCTURE.

3.05 FIELD QUALITY CONTROL
A. MANUFACTURER'S FIELD SERVICES: UPON OWNER'S REQUEST, PROVIDE MANUFACTURER'S FIELD SERVICE CONSISTING OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISIT FOR INSPECTION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.06 ADJUSTING AND CLEANING
A. ADJUSTING: ADJUST SWING DOORS FOR OPERATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
CLEANING: THE GENERAL CONTRACTOR SHALL CLEAN INSTALLED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO OWNER'S ACCEPTANCE, AND REMOVE CONSTRUCTION DEBRIS FROM PROJECT SITE. LEGALLY DISPOSE OF DEBRIS.
PROTECTION: THE GENERAL CONTRACTOR SHALL PROTECT THE INSTALLED PRODUCT'S FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION.

END OF SECTION 08410

REVISIONS

OLIVERI ARCHITECTS
AA-0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684

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JAN 28 2014
Joseph L. Oliveri, AIA

New Free Standing
RETAIL BUILDING
Lake City Place

Date: 01. 28
Scale: AS NO
Project Mgr:
Drawn: G.T.
Job: 13-22
Sheet
N1

DIVISION 8 DOORS AND WINDOWS (CONT.)

SECTION 08417 ALUMINUM STOREFRONT SYSTEM

PART 1 GENERAL

1.01 SUMMARY
- A. PROVIDE ALUMINUM STOREFRONT SYSTEMS THAT WILL WITHSTAND WIND PRESSURE LOADS FOR THE LOCATION INDICATED ON THE DRAWINGS PER NATIONAL, STATE AND LOCAL CODES.

1.02 RELATED SECTIONS
- A. SEALANTS
- B. GLASS AND GLAZING

1.03 QUALITY ASSURANCE
- A. INSTALLER SHALL BE EXPERIENCED TO PERFORM WORK OF THIS SECTION WHO HAS SPECIALIZED IN THE INSTALLATION OF WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
- B. MANUFACTURER SHALL BE CAPABLE OF PROVIDING FIELD SERVICE REPRESENTATION DURING CONSTRUCTION, APPROVING ACCEPTABLE INSTALLER AND APPROVING APPLICATION METHOD.
- C. VERIFY ACTUAL MEASUREMENT/OPENINGS BY FIELD MEASUREMENTS BEFORE FABRICATION. SHOW RECORED MEASUREMENTS ON SHOP DRAWINGS. COORDINATE FIELD MEASUREMENTS, FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID CONSTRUCTION DELAYS.

1.04 SUBMITTALS
- A. PREPARE, REVIEW, APPROVE AND SUBMIT SPECIFIED SUBMITTALS IN ACCORDINANCE WITH "CONDITIONS OF THE CONTRACT" AND DIVISION 1 SUBMITTALS SECTION.
- B. SUBMIT SHOP DRAWINGS SHOWING LAYOUT, PROFILES, AND PRODUCT COMPONENTS, INCLUDING ANCHORAGE, ACCESSORIES, FINISH COLORS AND TEXTURES.
- C. SUMIT CURRENT CERTIFIED TEST REPORTS SHOWING COMPLIACNCE WITH CODE REQUIREMENTS DATED NO MORE THAN 1 YEAR PROIR TO SUBMITTAL DATE.

1.05 WARRANTY
- A. PROVIDE MANUFACTURER GUARANTEE AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

PART 2 PRODUCTS

2.01 MATERIAL
- A. ALUMINUM STOREFRONT SYSTEM(S) SHALL BE:
  SUNPANE 5500 (2" x 4 1/2" FOR 1" GLAZING) AS MANUFACTURED BY WESTSHORE GLASS CORP.,TAMPA FLORIDA. (1-800-284-5277) OR APPROVED EQUIVALENT.
- B. EXTRUDED SECTIONS SHALL BE ALUMINUM AA-6063-T5 ALLOY.
- C. ALL GLAZING MATERIALS SHALL BE ELASTOMERIC GLAZING GASKETS.
- D. ALUMINUM MOLDINGS SHALL BE GIVEN A CAUSTIC ETCH FOLLOWED BY AN ANODIC OXIDE TREATMENT TO OBTAIN:
  CLEAR ANODIZED FINISH AA-M12C22A31 CLASS II, AND SHALL BE DESIGNATED AS CL CLEAR FINISH (0.4 MIL MIN. THICK CLEAR ANODIC COATING.)
- E. WALL THICKNESS OF FRAMING MEMBERS SHALL BE .078 TO .125.
- F. ALL EXPOSED FRAMING SURFACES SHALL BE FREE OF SCRATCHES AND OTHER SERIOUS BLEMISHES.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS
- A. COMPLIANCE: COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLETINS, PRODUCT CATALOG INSTALLATION INSTRUCTIONS, AND PRODUCT CARTON INSTRUCTIONS.

3.02 EXAMINATION
- A. SITE VERIFICATION OF CONDITIONS: VERIFY SUBSTRATE CONDITIONS (WHICH HAVE BEEN PREVIOUSLY INSTALLED UNDER OTHER SECTIONS) ARE ACCEPTABLE FOR PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.03 PREPARATION
- A. ADJACENT SURFACES PROTECTION: PROTECT ADJACENT WORK AREAS AND FINISH SURFACES FROM DAMAGE DURING PRODUCT INSTALLATION.

3.04 INSTALLATION
- A. GENERAL: INSTALL MANUFACTURER'S SYSTEM IN ACCORDANCE WITH SHOP DRAWINGS, AND WITHIN SPECIFIED TOLERANCES.
  1. PROTECT ALUMINUM MEMBERS IN CONTACT WITH MASONRY, STEEL, CONCRETE, OR DISSIMILAR MATERIALS USING NYLON PADS OR BITUMINOUS COATING.
  2. SHIM AND BRACE ALUMINUM SYSTEM BEFORE ANCHORING TO STRUCTURE.
  3. PROVIDE SILL FLASHING AT EXTERIOR STOREFRONT SYSTEMS. EXTEND EXTRUDED FLASHING CONTINUOUS WITH SLICE JOINTS, SET IN CONTINUOUS BEADS OF SEALANT.
  4. VERIFY STOREFRONT SYSTEMS ALLOW WATER ENTERING SYSTEM TO BE COLLECTED IN GUTTERS AND WEEPED TO EXTERIOR. VERIFY WEEP HOLES ARE OPEN, AND METAL JOINTS ARE SEALED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  5. LOCATE EXPANSION MULLION WHERE INDICATED ON REVIEWED SHOP DRAWINGS.
  6. SEAL METAL TO METAL STOREFRONT SYSTEM JOINTS USING SEALANT RECOMMENDED BY SYSTEM MANUFACTURER.

3.05 FIELD QUALITY CONTROL
- A. MANUFACTURER'S FIELD SERVICES: UPON OWNER'S REQUEST, PROVIDE MANUFACTURER'S FIELD SERVICE CONSISTING OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISIT FOR INSPECTION OF PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS.
- B. FIELD TEST: CONDUCT FIELD TEST TO DETERMINE WATERTIGHTNESS OF STOREFRONT SYSTEM. CONDUCT TEST IN ACCORDANCE WITH NAAMM FC-1-76 AT LOCATIONS SELECTED BY ARCHITECT.
  1. PERFORM MINIMUM OF ONE TEST. PERFORM TEST IN ARCHITECT'S PRESENCE.

3.06 ADJUSTING AND CLEANING
- A. ADJUSTING: ADJUST OPERATING ITEMS AS RECOMMENDED BY MANUFACTURER.
- B. CLEANING: THE GENERAL CONTRACTOR SHALL CLEAN INSTALLED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO OWNER'S ACCEPTANCE, AND REMOVE CONSTRUCTION DEBRIS FROM PROJECT SITE. LEGALLY DISPOSE OF DEBRIS.
- C. PROTECTION: THE GENERAL CONTRACTOR SHALL PROTECT INSTALLED PRODUCT'S FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION.

END OF SECTION 08417

SECTION 08710 FINISH HARDWARE

PART 1 GENERAL

1.01 GENERAL
- A. OBTAIN EACH TYPE OF AS SPECIFIED IN THE DOOR/HARDWARE SCHEDULE HARDWARE FROM A SINGLE MANUFACTURER, ALTHOUGH SEVERAL MAY BE INDICATED AS OFFERING PRODUCTS COMPLYING WITH THE REQUIREMENTS.
- B. FURNISH ALL HARDWARE, IN THEIR ORIGINAL PACKAGING, COMPLETE WITH ACCESORIES OF PROPER SIZE AND DESIGN REQUIRED FOR THE PURPOSE FOR WHICH THEY ARE TO BE USED AND WITH ALL SCREWS, SHIELDS, AND OTHER ANCHORAGE DEVICES NECESSARY FOR A COMPLETE INSTALLATION. HARDWARE SCHEDULE SHOWN ON THE DRAWINGS.
- C. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE NATIONAL BUILDERS HARDWARE ASSOCIATION AND THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATED REMOVAL, STORAGE, AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK.
- D. SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION. DRILL AND COUNTERSINK UNITS NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS. SET THRESHOLDS FOR EXTERIOR DOORS IN FULL BED OF BUTYL-RUBBER OF POLYIOSBUTYLENE MASTIC SEALANT.
- E. ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION. REPLACE UNITS THAT CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE. INSTRUCT OWNERS IN PROPER ADJUSTMENT AND MAINTENANCE OF HARDWARE DURING FINAL ADJUSTMENT.

1.02 KEYING
- A. KEYING SHALL BE PER THE OWNERS REQUIREMENTS. TAG KEYS AND PROVIDE TO OWNER AT SUBSTANTIAL COMPLETION.

1.03 GUARANTEE
- A. PROVIDE ONE-YEAR GUARANTEE FOR ALL HARDWARE. PERIOD OF GUARANTEE SHALL BEGIN FROM DATE OF OWNER'S ACCEPTANCE.

END OF SECTION 08710

DIVISION 8 DOORS AND WINDOWS (CONT.)

SECTION 08800 GLA ASS & GLAZING

PART 1 GENERAL

1.01 SUMMARY
- A. PROVIDE AND INSTALL GLAZ AZING AND ACCESSORIES WHERE SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. GLAZING TYPES AND ND SIZES SHALL BE AS PER THE DRAWINGS AND WINDOW SCHEDULE.

1.02 QUALITY STANDARDS
- A. GLAZING STANDARDS: COMF MPLY WITH RECOMMENDATIONS OF FLAT GLASS MARKETING ASSOCIATION (FGMA) "GLAZING MANUAL" AN AND "SEALANT MANUAL" EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. REFER TO THOSE SE PUBLICATIONS FOR DEFINITIONS OF GLASS AND GLAZING TERMS NOT OTHERWISE DEFINED IN THIS S S SECTION OR OHTER REFERENCED STANDARDS.
- B. SAFETY GLAZING PRODUCT: T: WHERE SAFETY GLASS IS INDICATED OR REQUIRED BY AUTHORITIES HAVING JURISDICTION, PROVIDE TYPE PE OF PRODUCTS INDICATED WHICH COMPLY WITH ANSI Z97.1 AND TESTING REQUIREMENTS OF CPSC 16 C , CFR PART 1201 FOR CATEGORY II MATERIALS.
- C. FIRE-RESISTANCE-RATED WIR WIRE GLASS: PROVIDE WIRE GLASS PRODUCTS THAT ARE IDENTICAL TO THOSE TESTED PER ASTM E 163 (UL L 9) AND ARE LABELED AND LISTED BY UL OR OTHER TESTING AND INSPECTING AGENCY ACCEPT PTABLE TO AUTHORITIES HAVING JURISDICATION.
- D. SINGLE SOURCE RESPONSIBIL BILITY : PROVIDE MATERIALS OBTAINED FROM ONE SOURCE FOR EACH TYPE OF GLAZING PRODUCT INDICAT ATED.
- E. PROVIDE GLASS AND GLAZIN ZING THAT HAS BEEN PRODUCED, FABRICATED AND INSTALLED TO WITHSTAND NORMAL TEMPERATURE CHAN ANGES, WIND LOADING , IMPACT LOADING, WITHOUT FAILURE INCLUDING LOSS OR BREAKAGE OF GLASS, FAILUR URE OF SEALMENTS OR GASKETS TO REMAIN WATERTIGHT AND AIRTIGHT, DETERIORATION OF GLASS AN AND GLAZING MATERIALS, AND OTHER DEFECTS IN THE WORK.
- F. FIELD MEASURE ALL OPENING NGS OR AREAS TO RECEIVE GLASS AND GLAZING TO ASCERTAIN CORRECT FIT. IMPROPERLY SIZED GLASS O OR GLAZING SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER.

1.03 SUBMITALS
- A. PRODUCT DATA: SUBMIT MAN ANUFACTURER'S TECHNICAL DATA FOR EACH GLAZING MATERIAL, FABRICATED GLASS PRODUCT REQUIRED A AND SEALANT INCLUDED INSTALLATION AND MAINTENANCE INSTRUCTIONS, PERFORMANCE CRITERIA, ETC ETC..
- B. SAMPLES: SUBMIT, FOR VERIF RIFICATION PURPOSES, 12 INCH SQUARE SAMPLE OF EACH TYPE OF GLASS INDICATED, INCLUDING MIRRO RORS, MOUNTING HARDWARE AND MATERIALS.
- C. CERTIFICATE: SUBMIT CERTIFIC FICATES FROM RESPECTIVE MANUFACTURERS ATTESTING THAT GLASS AND GLAZING MATERIALS FURNISHE SHED FOR PROJECT COMPANY WITH REQUIREMENTS, INCLUDE ALL REQUIRED WARRANTIES.
  1. GLASS MANUFACTURER SH SHALL SUBMIT A CERTIFIED LETTER STATING THAT ALL GLASS SIZE AND THICKNESS FOR ALL GLAZING OPENIN INGS MEET OR EXCEED THE WIND LOAD REQUIREMENTS AS SPECIFIED IN SECTION 08410, ALUMINUM ENTRANC NCES AND STOREFRONTS, AND SECTION 08521, ALUMINUM WINDOWS.

1.04 DELIVERY, STORAGE AND HAND NDLING
- A. PROTECT GLASS AND GLAZIN ING MATERIALS DURING DELIVERY, STORAGE AND HANDLING TO COMPLY WITH MANUFACTURER'S DIRECTIONS NS AND AS REQUIRED TO PREVENT EDGE DAMAGE TO GLASS AND GLAZING MATERIALS FROM EFFECTS OF OF MOISTURE INCLUDING CONDENSATION, OF TEMPERATURE CHANGES, OF DIRECT EXPOSURE TO SUN, AN AND FROM OTHER CAUSES.
- B. STORE IN LOCATION TO PREVE EVENT ANY DAMAGE. REPLACE GLASS OR GLAZING MATERIALS AT ANY POINT DURING THE CONTRACT PERIO RIOD AT NO COST TO OWNER.

1.05 GUARANTEE
- A. PROVIDE MINIMUM TEN (10) YE YEAR GUARANTEE FOR ALL GLASS PRODUCTS, INCLUDING GUARANTEE AGAINST SILVER SPOILAGE OF ALL MIR MIRRORS, PERFORMANCE OF GLAZING SEALANTS, TEC.

PART 2 PRODUCTS

2.01 GLASS
- A. PROVIDE GLASS TYPES AND T D THICKNESS AS PER DRAWINGS AND WINDOW SCHEDULE:
  FLOAT (OR "PLATE"): COMPL PLY WITH FEDERAL SPECIFICATION DD-G-451. CLEAR WIRE GLASS: COMPLY WITH FEDERAL SPECIFICATION ON DD-G-451. FIGURED AND PATTERN GLASS: COMPLY WITH FEDERAL SPECIFICATION DD-G-451.
- B. SUBJECT TO COMPLIANCE WITH ITH ALL REQUIREMENTS, THE FOLLOWING MANUFACTURERS OFFER PRODUCT WHICH MAY BE INCORPORATEI TED IN THE WORK:
  1. TINTED GLASS:
     a. PPG-INDUSTIES, INC. SO SOLARGRAY COMMERCIAL INSULATING GLASS 1-INCH UNITS WITH 1/2-INCH AIRSPACE AND 1/4-INC NCH LITES, INTERIOR LITE CLEAR.
  2. WIRE GLASS:
     a. FIRELITE.
  3. CLEAR FLOAT GLASS:
     a. PPG INDUSTRIES, INC.
     b. FORD GLASS DIVISION. N.
     c. LIBBEY-OWENS-FORD C O CO.
- C. OTHER MANUFACTURERS WHO F O PROVIDE SIMILAR PRODUCTS, SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS, MAY BE APPR PROVED WITH COMPLETE DATA SUBMITTAL AND ARCHITECT APPROVAL PRIOR TO BIDDING IN ACCORDANCE CE WITH DIVISION 1.
- D. INSULATING GLASS: COMPLY W Y WITH ASTM E-773, ASTM E-774. SEALED INSULATING UNITS FABRICATED FROM TWO PANES OF GLASS WITH AIR AIR SPACE BETWEEN. GLASS THICKNESS AND HEAT STRENGTHENING TO BE DETERMINED BY MANUFACTURE URER FOR WIND LOADING CONDITION. INSULATING GLASS WARRANTY: 10 YEARS.

2.02 MANUFACTURERS / PRODUCTS
- A. FLOAT GLASS (TYPE FG-A): CL CLEAR, 1/4 INCH THICK, MINIMUM.
  SAFTEY GLASS (TYPE FG-B): C : CLEAR, FULLY TEMPERED 1/4 INCH THICK, MINIMUM.
  LOW E GLASS (TYPE FG-F): FLO FLOAT TYPE, TEMPERED, CLEAR, COATING ON INNER SURFACE.
  MIRROR GLASS (TYPE FG-H): C : CLEAR TEMPERED SAFTEY TYPE WITH COPPER AND SILVER COATING, SQUARE EDGES.

DIVISION 9 FINISHES

SECTION 09205 STUCC CO FINISH

PART 1 GENERAL

1.01 SUMMARY
- A. MATERIALS AND INSTALLATION ON OF CEMENT STUCCO ON HOLLOW MASONRY, EXTERIOR GRADE PLYWOOD AND METAL AL LATH ALSO FURNISH AND INSTALL METAL, LATH, STUCCO WRAP AND ACCESSORIES.

1.02 DELIVERY, STORAGE AND HAND NDLING
- A. DELIVER ALL CEMENT MATERIA RIALS IN ORIGINAL CONTAINERS BEARING MANUFACTURERS NAME AND IDENTIFICATION.
- B. DELIVER NEW, FLAT STRUCTURA RAL METAL LATH IN ORGINAL PACKAGING. PROTECT PRODUCTS FROM MOISTURE AND HUMIDITY. STOR ORE UNDER COVER OFF GROUN IN A DRY LOCATION.

1.03 SUBMITTALS
- A. MANUFACTURERS SPECIFICATIO ION AND PRODUCT DATA FOR STUCCO APPLICATIONS.
- B. STUCCO WRAP STRUCTURAL MET METAL LATH AND ACCESSORIES, SUCH AS CORNER BEAD, CONTROL JOINTS, ETC.

PART 2 PRODUCTS

2.01 JOB MIXED INGREDIENTS
- A. PORTLAND CEMENT, ASTMC 150 50 TYPE 1, MIXED IN ACCORD WITH MANUFACTURERS INSTRUCTIONS.
- B. WATER: CLEAN AND POTABLE. E.
- C. METAL LATH
  1. STRUCTURAL METAL LATH SH SHALL BE 3.4 POUND EXPANDED METAL SHEET WITH SOLID PARALLEL RIBS.
  2. METAL LATH SHALL BE 3.4 P 4 POUND DIAMOND MESH METAL LATH.
  3. ACCESSORIES FURNISHED B BY SAME MANUFACTURER FOR STUCCO APPLICATION.
- D. MECHANICAL FASTENERS
  1. NAILS, 8d RING SHANK, HOT OT DIP GALVANIZED OF SUFFICIENT LENGHTH TO PENETRATE PLYWOOD BACKING 1 INCH
  2. WHERE LIGHT METAL FRAMIN MING OCCURS: MINIMUM NO.6 SELF DRILLING CORROSION RESISTANT SCREWS OF SUFFICIENT LENGTH TO PENT NTRATE METAL 3/8 INCH.
- E. STUCCO WRAP
  1. BY TYVER FOR USE OVER P R PLYWOOD FACINGS.

PART 3 EXECUTION

3.01 INSTALLATION
- A. INSTALL MECHANICAL FASTENER ERS ON 6 INCH CENTERS ALONG SEAMS AND 12 INCH CENTERS ALONG INTERIORS.
- B. STUCCO INSTALLATION SHALL BE BE TWO COAT APPLICATION. APPLY BASE COAT WITH FIRM PRESSURE TO FORM GOOD BOND THEN DOUBLE BAC ACKK TO PROVIDE THICKNESS. LEAVE ROUGH ENOUGH TO PROVIDE BOND FOR FINISH COAT. FINISH COAT SHALL ALL BE OF TEXTURE AS CALLED FOR ON THE BUILDING ELEVATION DRAWINGS.
- C. CURING: CURE STUCCO BY USE C E OF POLYETHYLENE FILM, OR BY USE OF FINE SPRAY.

3.02 PROTECTION
- A. PROTECT STUCCO DURING AND D UPON COMPLETION FROM WATER INFILTRATION, DUST, DIRT, PRECIPITATION, EXCESSIVE DRYING UNTIL STUCC CCO HAS SET.

DIVISION 9 FINISHES

SECTION 09250 GYPSUM WALLBOARD

PART 1 GENERAL

1.01 GENERAL
- A. GYPSUM WALLBOARD WORK SHALL CONFORM TO THE GYPSUM ASSOCIATION "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD."
- B. EXAMINE SUBSTRATES TO WHICH DRY WALL CONSTRUCTION ATTACHES OR ABUTTS, PRESET HOLLOW METAL FRAMES, CAST-IN-ANCHORS, AND STRUCTURAL FRAMING FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCE AND OTHER CONDITIONS AFFECTING PERFORMANCE OF DRY WALL CONSTRUCTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- C. DO NOT TAPE AND FINISH GYPSUM BOARD WHEN THE TEMPERATURE IS BELOW 60 DEGREES FAHRENHEIT. THE TEMPERATURE OF THE ROOMS SHALL BE HELD AT 60 DEGREES FAHRENHEIT FOR 48 HOURS BEFORE TAPING AND FINISHING IS TO BEGIN. MAINTAIN 60 DEGREES FAHRENHEIT DURING AND AFTER INSTALLATION. VENTILATES AS REQUIRED TO REMOVE EXCESS HUMIDITY.

1.02 GYPSUM WALLBOARD
- A. GYPSUM WALLBOARD SHALL BE MANUFACTURED BY U.S. GYPSUM. WALLBOARD IS TO MEET. ASTM C36-84A AND SS-L-30d 1/2 INCHES THICK, 48 INCHES WIDE WITH TAPERED EDGES.
- B. AT FIRE RATED PARTITIONS INSTALL WALLBOARD TO MEET SEPARATE REQUIREMENTS, USE TYPE III, GRADE X CLASS 1, 5/8 INCHES THICK FIRE RETARDANT WALLBOARD.
- C. INSTALL GYPSUM BOARD WITH TRUE, EVEN SURFACES AND STRAIGHT, SHARP CORNERS. USE FULL LENGTH BOARDS WHERE POSSIBLE. END JOINTS ON THE SAME SIDE OF A WALL SHALL BE STAGGERED AND JOINTS ON OPPOSITE SIDE SHALL NOT OCCUR OVER THE SAME SUPPORT. DO NOT LOCATE NORMAL END JOINTS AT EDGE OF OPENINGS. FORM JOINTS NEATLY. BUTT BOARDS TOGETHER BUT DO NOT FORCE INTO PLACE. DO NOT BUTT EDGES AGAINST TAPERED EDGES. NO JOINT SHALL HAVE A GAP GREATER THAN 1/4 INCH.
- D. IN GENERAL, INSTALL GYPSUM BOARD ON CEILING BEFORE WALLS. CONSTRUCT CEILINGS WITH LONG DIMENSION OF GYPSUM BOARD APPLIED AT RIGHT ANGLES TO SUPPORT.
- E. SCREW GYPSUM BOARD TO FRAMING WITH SCREWS NOT OVER 8 INCHES ON CENTER. FASTEN GYPSUM BOARD BEGINNING AT THE CENTER AND WORK TOWARDS OUTER EDGES. HOLD BOARD FIRMLY AGAINST WOOD FRAMING WHILE FASTENING. FASTENERS AT EDGES OF BOARDS SHALL BE 1/2 INCH FROM THE EDGE.
- F. OPENINGS FOR ELECTRICAL DEVICES, PIPING, GRILLS, AND REGISTERS SHALL BE ACCURATELY LOCATED AND NEATLY MADE TO CLOSELY FIT THE DEVICES AND BE COMPLETELY COVERED BY PLATES AND ESCUTCHEONS.

1.03 TRIM PIECES
- A. PROVIDE TRIM ACCESSORIES OF THE SIZES REQUIRED FOR THE WALLBOARD APPLICATION AS MANUFACTURED BY U.S. GYPSUM. PROVIDE DUR-A-BEAD CORNER BEAD AT EXTERNAL CORNERS AND NO. 200-A METAL CASING BEAD WHERE WALLBOARD ABUTTS OTHER MATERIALS.

1.04 FASTENERS
- A. PROVIDE SCREWS, NAILS, CLIPS, TIES, AND OTHER FASTENERS AS RECOMMENDED BY THE GYPSUM MANUFACTURER.

1.05 JOINT TREATMENT SYSTEMS
- A. SYSTEM SHALL BE PERFORATED TAPE AND CEMENT RECOMMENDED THE GYPSUM MANUFACTURER.
- B. APPLY MATERIALS IN STRICT ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS. FILL JOINTS WITH JOINT COMPOUND, EMBED PERFORATED TAPE AND APPLY A SKIM COAT OF JOINT COMPOUND OVER TAPE. APPLY TWO ADDITIONAL COATS OF JOINT COMPOUND ALLOWING AT LEAST 24 HOURS BETWEEN EACH COAT. SAND EACH COAT. FINISH SURFACES SHALL BE UNIFORMLY SMOOTH, TRUE AND IN SATISFACTORY CONDITION TO RECEIVE PAINT.

END OF SECTION 09250

SECTION 09300 CERAMIC TILE

PART 1 GENERAL

1.01 GENERAL
- A. CERAMIC AND TYPES ARE INDICATED ON THE DRAWINGS AND ARE FROM A SINGLE MANUFACTURER. OTHER MANUFACTURERS WILL NOT BE CONSIDERED.
- B. DELIVER MATERIALS IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT UNTIL TIME OF USES. ENGAGE AN EXPERIENCED INSTALLER WHO HAS SUCCESSFULLY COMPLETED TILE INSTALLATIONS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THE PROJECT.
- C. COMPLY WITH PARTS OF ANSI 108 SERIES OF FINE INSTALLATION STANDARDS INCLUDED UNDER "AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR THE INSTALLER OF CERAMIC TILE" THAT APPLY TO TYPE OF SETTING AND GROUT MATERIALS AND METHODS INDICATED. TILE MAY BE THIN-SET.

1.02 MORTAR AND GROUT
- A. MORTAR SHALL BE PORTLAND CEMENT ASTM C150, TYPE 1. GROUT SHALL BE ACID RESISTANT UPCO HYDROMENT, TYPE AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC TYPE OF TILE AND METHOD OF INSTALLATION. COLR FOR FLOOR TILE IS SPECIFIED ON THE DRAWINGS.
- B. DO NOT GROUT TILE UNTIL TILE IS FIRMLY SET. SOAK OR DAMPEN JOINTS OF THE TILE TO BE GROUTED WITH PORTLAND CEMENT GROUT. SOAK OR DAMPEN OTHER JOINTS AS RECOMMENDED BY THE GROUT MANUFACTURER. FORCE GROUT INTO JOINT LINES COMPLETELY IDILING JOINTS WITH COMPACTED GROUT AND COVERING MORTAR. FINISH JOINTS OF SQUARE EDGED TILE FLUSH WITH SURFACE. STRIKE OFF TOOL JOINTS OF CUSHION EDGED TILE TO DEPTH OF CUSHION. FILL GAPS AND SKIPS, AND RETOOL.

1.03 CLEANING
- A. UPON COMPLETION OF THE PLACEMENT AND GROUTING, CLEAN TILE SURFACE SO THAT THEY ARE FREE OF FOREIGN MATTER. REMOVE LATEX-PORTLAND CEMENT GROUT RESIDUE FROM TILE AS SOON AS POSSIBLE UNGLAZED TILE MAY BE CLEANED WITH ACID SOLUTIONS ONLY WHEN PERMITTED BY TILE AND GROUT MANUFACTURER'S PRINTED INSTRUCTIONS, BUT SOONER THAN 14 DAYS AFTER INSTALLATION. FLUSH SURFACE WITH CLEAN WATER BEFORE AND AFTER CLEANING.

SECTION 09511 ACOUSTIC PANEL CEILINGS

PART 1 GENERAL

1.01 GENERAL
- A. COORDINATE LAYOUT AND INSTALLATION OF ACOUSTICAL CEILING UNITS AND SUSPENSION SYSTEM COMPPONENTS WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES AND HVAC EQUIPMENT.

1.02 MINERAL-FIBER ACOUSTICAL PANELS
- A. PROVIDE ACOUSTICAL PANELS AS SPECIFIED ON CEILING PLAN, 24 INCHES BY 48 INCHES BY 3/4 INCHES THICK SQUARE EDGE. REFER TO DRAWINGS FOR COLOR SELECTION AND LIMITS OF TILE INSTALLATION.
- B. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. ARRANGE ACOUSTICAL UNITS AND ORIENT DIRECTIONAL PATTERN OF TILES FOR A UNIFORM APPEARANCE. REST PANELS ON FLANGES OR INVERTED TEES WITH TILE UNITS FITTING NEATLY AGAINST BUTTING SURFACE AND SUPPORT BY WALL ANGLES.

1.03 METAL SUSPENSION SYSTEM
- A. PROVIDE SYSTEM AS SPECIFIED ON CEILING PLAN. SUSPENSION SYSTEM SHALL BE EXPOSED TEE-GRID, DOUBLE WEB, INTERMEDIATE DUTY (ASTM C635), ELECTROGALVANIZED, COLD-ROLLED STEEL, 15/16 INCHES WIDE, CAPPED BOTTOM FLANGE. WHITE IN COLOR. SYSTEM TO INCLUDE ALL CROSS TEES, BRIDGING TREES, INTERSECTION CLIPS, SPLICES, COMPLETE EXPOSED GRID SYSTEM.
- B. LAY OUT PATTERN IN ACCORDANCE WITH THE DRAWINGS, LEVEL, TRUE TO PLANE, AND AT THE REQUIRED ELEVATION. FRAME AROUND ALL OPENINGS IN CEILING LIGHTS AND GRILLES WITH MAIN RUNNERS. HANGERS ARE TO BE SPACED AT 4'-0" ON CENTER MAXIMUM. PROVIDE ADDITIONAL HANGERS AS REQUIRED TO SUPPORT LIGHT FIXTURES AND HVAC REGISTERS AND GRILLES AND INTERFERENCES OF DUCT WORK.
- C. SECURE WIRES BY LOOPING AND WIRE-TYING, EITHER DIRECTLY TO STRUCTURES OR TO INSERTS, EYE SCREWS, OR OTHER DEVICES APPROPRIATE FOR SUBSTRATE. SCREW ATTACH EDGE MOLDINGS TO SUBSTRATE AT INTERVALS NOT OVER 16 INCHES ON CENTER AND NOT MORE THAN 3 INCHES FROM ENDS. LEVEL GRID TO A TOLERANCE OF 1/8INCH IN 12 FEET.

END OF SECTION 09511

SECTION 09650 VINYL COMPOSITION TILE

PART 1 GENERAL

1.01 SUMMARY
- A. PROVIDE TYPE AND STYLE AS SCHEDULED IN THE FINISH MATERIAL SCHEDULE.
- B. ADHESIVES.
  1. PROVIDE WHITE LATEX CARPET ADHESIVE SUCH AS W.W. HENRY COMPANY NO 356, ROBERTS COMPANY NO. 41-0504, OR AN EQUAL APPROVED BY THE ARCHITECT AND RECOMMENDED FOR THE PURPOSE BY THE MANUFACTURER OF THE SELECTED CARPET.
  2. PROVIDE SEAM ADHESIVE SUCH AS W.W. HENRY COMPANY NO. 246, ROBERTS COMPANY NO. 41-0502, OR AN EQUAL APPROVED BY THE ARCHITECT AND RECOMMENDED FOR THE PURPOSE BY THE MANUFACTURER OF THE SELECTED CARPET.
- C. AT INTERSECTION OF CARPET AND FLOOR TILE, PROVIDE ROPPE COMPANY, INC. VINYL TILE CARPET JOINER #188 OR EQUIVALENT.
- D. PROVIDE OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AS SELECTED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- E. ALLOW THE OWNER TO INSPECT AND SELECT FROM SCRAP CARPET REMAINING AFTER THE INSTALLATION. BUNDLE, WRAP IN BURLAP, AND DELIVER TO THE OWNER THE CARPET SCRAPS SO SELECTED.

END OF SECTION 09650

DIVISION 9 FINISHES (CONT.)

SECTION 09900 PAINTING

PART 1 GENERAL

1.01 GENERAL
- A. IT IS THE INTENT OF THIS SPECIFICATION TO PRODUCE A PREMIUM JOB, WHICH WILL PROVIDE THE MAXIMUM DURABILITY, WHICH CAN REASONABLY BE EXPECTED FROM A PAINTED SURFACE.
- B. "PAINT" INCLUDES COATING SYSTEMS MATERIALS, PRIMERS, EMULSIONS, ENAMELS, STAINS, SEALERS, AND FILLERS, AND OTHER APPLIED MATERIALS WHETHER USED AS PRIME, INTERMEDIATE, OR FINISH COAT.
- C. SPECIFIED PRODUCTS BELOW ARE MANUFACTURED BY SHERWIN WILLIAMS, EXCEPT WHERE OTHER MANUFACTURERS ARE INDICATED, AND ESTABLISH A STANDARD OF QUALITY. EQUIVALENT PRODUCTS OF OTHER ACCEPTABLE MANUFACTURERS MAY NOT BE USED UNLESS APPROVED BY ARCHITECT.
- D. PROVIDE BEST GRADE AND QUALITY MATERIALS AND PRODUCTS MANUFACTURED BY SHERWIN WILLIAMS. MATCH COLORS AS INDICATED ON THE DRAWINGS. USE PREMIXED PAINTS INSOFAR AS POSSIBLE. THIN ONLY AS PERMITTED ANY MANUFACTURER'S LABEL INSTRUCTIONS, AND AVOID UNNECESSARY THINNING.
- E. PROTECT FINISHED SURFACES, WORK OF OTHER TRADES, AND PROPERTY OF THE OWNER FROM DAMAGE AND DEFACEMENT. COVER FLOORS AND FIXED EQUIPMENT WITH DROP CLOTHS.
- F. PREPARE SURFACES ACCORDING TO PAINT MANUFACTURER'S INSTRUCTIONS. EXAMINE FACTORY FINISHED AND PRIMED SURFACES TO BE PAINTED, AND VERIFY COMPATIBILITY OF EXISTING MATERIAL WITH PAINT TO BE APPLIED. APPLY PAINT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS ONLY TO SURFACES WHICH ARE THOROUGHLY DRY, SMOOTH, EVEN, CLEAN, FREE OF DUST AND PROPERLY PREPARED TO RECEIVE THE INTENDED FINISH.

1.02 PAINTING
- A. ACCEPTABLE MATERIALS
  1. ALL PAINTING TO BE SCHEDULED IN THE FINISH SCHEDULE.
  2. EQUIVALENT PRODUCTS OF THE FOLLOWING ARE ALSO ACCEPTABLE:
     PRATT & LANBERTT
     GLIDDEN
     PORTER
     BENJAMINE MOORE
- B. UNDERCOATS AND THINNERS
  1. PROVIDE UNDERCOAT PAINT PRODUCED BY THE SAME MANUFACTURER OF FINISH COAT.
  2. USE ONLY THINNERS RECOMMENDED BY THE PAINT MANUFACTURER AND USE ONLY THE RECOMMENDED LIMITS.
- C. COLOR SCHEDULES
  1. PROVIDE PAINTING AS SCHEDULED IN THE FINISH MATERIALS SCHEDULE.
     a. ON GYPSUM DRYWALL, USE:
        1. FIRST COAT - PIGMENTED PRIMER/SEALER
        2. SECOND COAT - ACRYLIC LATEX ENAMEL
        3. THIRD COAT - ACRYLIC LATEX ENAMEL
     b. ON FERROUS METAL, USE:
        1. FIRST COAT - RUST INHIBITIVE ALKYD METAL PRIMER
        2. SECOND COAT - SEMI-GLOSS ALKYD ENAMEL
        3. THIRD COAT - SEMI-GLOSS ALKYD ENAMEL
     c. ON WOOD DOORS, USE:
        1. FIRST COAT - STAIN (SEE FINISH SCHEDULE)
        2. SECOND COAT - STAIN (SEE FINISH SCHEDULE)
        3. THIRD COAT - VARNISH LOW SHEEN "RUBBED EFFECT"

END OF SECTION 09900

DIVISION 10 SPECIALTIES

SECTION 10522 FIRE EXTINGUISHERS

PART 1 GENERAL

1.01 SUBMITTALS
- A. PRODUCT DATA: REQUIRED
- B. SHOP DRAWINGS: NOT REQUIRED
- C. SAMPLES: NOT REQUIRED

PART 2 PRODUCTS

2.01 MANUFACTURERS/PRODUCTS
- A. COORDINATE WITH LOCAL MUNICIPALITIES AND PROVIDE FIRE EXTINGUISHERS.
- B. FIRE EXTINGUISHERS: SEE DRAWINGS FOR SPECIFICATIONS.

PART 3 EXECUTION

3.01 SCHEDULES
- A. INSTALL AS REQUIRED.

END OF SECTION 10522

SECTION 10800 TOILET ACCESSORIES

PART 1 GENERAL

1.01 SUBMITTALS
- A. PRODUCT DATA: NOT-REQUIRED
- B. SHOP DRAWINGS: NOT-REQUIRED
- C. SAMPLES: NOT-REQUIRED

PART 2 PRODUCTS

2.01 MANUFACTURERS/PRODUCTS
- A. ACCESSORIES SHALL BE AS MANUFACTURED BY "BRADLEY" OR "BOBRICK." OR EQUAL SEE DRAWINGS FOR SPECIFICATIONS.

PART 3 EXECUTION

3.01 SCHEDULES
- A. COORDINATE WITH DRAWINGS.

END OF SECTION 10800

DIVISION 11 EQUIPMENT

NONE SPECIFIED

DIVISION 12 FURNISHINGS

NONE SPECIFIED

DIVISION 13 SPECIAL CONSTRUCTION

NONE SPECIFIED

DIVISION 14 CONVEYING SYSTEMS

NONE SPECIFIED

DIVISION 15 MECHANICAL

SEE MECHANICAL SPECIFICATIONS

DIVISION 16 ELECTRICAL

SEE ELECTRICAL SPECIFICATIONS

END OF SPECIFICATIONS

REVISIONS	BY

OLIVERI ARCHITECTS
AA-0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliveriarchitects.com •

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JAN 2 8 2014
Joseph L. Oliveri, AIA
State of Florida
License #AR0014028

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: G.T.
Job: 13–227
Sheet
N2

GENERAL CONDITIONS

1. STRUCTURAL DRAWINGS ARE TO BE USED IN CAREFUL COORDINATION AND IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS DURING ALL PHASES OF THE PROJECT INCLUDING BUT NOT LIMITED TO: PREPARATION OF BIDS AND PROPOSALS, PREPARATION OF SHOP DRAWINGS AND CONSTRUCTION. THE GENERAL CONTRACTOR IS TO PROVIDE A COMPLETE SET OF CONTRACT DOCUMENTS TO SUBCONTRACTORS TO BE USED DURING ALL PHASES OF THE PROJECT.

2. SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATING AND PLACING MATERIALS. SUBMIT TWO SETS OF BLUE LINES AND ONE SET OF SEPIAS. ALL SHOP DRAWINGS ARE TO BE REVIEWED, CORRECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT. ALL NECESSARY FIELD VERIFICATION AND OTHER DIMENSIONS AND INFORMATION REQUESTED ARE TO BE CLEARLY MARKED ON THE SHOP DRAWINGS BY THE GENERAL CONTRACTOR. ALL DRAWINGS ARE TO INDICATE CLEARLY THAT THE DRAWINGS HAVE BEEN REVIEWED, CORRECTED AND APPROVED BY THE GENERAL CONTRACTOR. DRAWINGS FAILING TO MEET THIS REQUIREMENT WILL BE RETURNED TO THE CONTRACTOR WITHOUT ACTION BY H. EUGENE HUNTER, P.E. ALLOW 10 WORKING DAYS FOR REVIEW AND RETURN OF SHOP DRAWINGS.

3. ALL DETAILS AND SECTIONS ARE CONSIDERED TYPICAL AND ARE TO BE USED BY THE CONTRACTOR TO DEVELOP COMPLETE DETAILS OF CONSTRUCTION FOR EACH PHASE OF THE WORK. ALL DETAILS OF CONSTRUCTION ARE TO BE REVIEWED PRIOR TO FABRICATING AND PLACING MATERIALS. THE GENERAL CONTRACTOR IS TO COORDINATE STRUCTURAL DRAWINGS WITH ALL PHASES OF CONSTRUCTION.

4. DO NOT SCALE PLANS, DETAILS, AND SECTIONS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS CONTACT THE ARCHITECT FOR INFORMATION PRIOR TO SUBMITTING SHOP DRAWINGS.

5. DESIGN, DETAILING, AND IMPLEMENTATION OF ALL SHORING AND BRACING REQUIRED FOR THE PROJECT DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

6. GENERAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DETAILS IN THE FIELD BEFORE FABRICATING MATERIALS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITIONS AND THOSE ASSUMED IN THE PREPARATION OF DRAWINGS SO THAT NECESSARY MODIFICATIONS CAN BE MADE TO THE DRAWINGS.

7. SHOP DRAWINGS SHALL BE ORIGINAL DRAWINGS PREPARED BY THE CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR. REPRODUCTION OF THE CONTRACT DOCUMENTS AS ERECTION PLANS OR DETAILS SHALL NOT BE USED WITHOUT WRITTEN PERMISSION FROM H. EUGENE HUNTER, P.E.

8. SHOP DRAWINGS SHALL BE PREPARED USING THE STRUCTURAL DRAWINGS. ANY CHANGES, MODIFICATIONS OR REVISIONS FROM THE STRUCTURAL DRAWINGS SHALL BE NOTED IN WRITING AND APPROVED PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.

9. IT IS ASSUMED THAT THE SELECTED G.C. AND HIS SUB-CONTRACTORS ARE EXPERIENCED AND QUALIFIED FOR THE TYPE OF CONSTRUCTION SHOWN. THE G.C. SHALL PROVIDE ALL SUB-CONTRACTORS WITH ALL RELATED DRAWINGS AND SPECIFICATIONS TO ALLOW COMPLETION OF THEIR WORK. ANY AND ALL QUESTIONS AND CLARIFICATIONS SHALL BE SUBMITTED IN WRITING BY FAX TO THE ARCHITECT AND ENGINEER BY THE G.C. ALLOW A MINIMUM OF THREE DAYS FOR WRITTEN RESPONSES.

PROJECT TERMS AND DEFINITIONS

PROJECT TERMS & DEFINITIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SEPTEMBER 1, 1986.

DEFINITIONS SHALL BE AS FOLLOWS:

ARCHITECT/ENGINEER - THE OWNER'S DESIGNATED REPRESENTATIVE WITH FULL RESPONSIBILITY FOR THE DESIGN AND INTEGRITY OF THE STRUCTURE.

CONTRACT DOCUMENTS - THE DOCUMENTS WHICH DEFINE THE RESPONSIBILITIES OF THE PARTIES INVOLVED IN BIDDING, PURCHASING, SUPPLYING AND ERECTING STRUCTURAL STEEL. THESE DOCUMENTS CONSIST OF A CONTRACT, PLANS AND SPECIFICATIONS.

DRAWINGS - SHOP AND FIELD ERECTION DRAWINGS PREPARED BY THE FABRICATOR AND ERECTOR FOR THE PERFORMANCE OF THE WORK.

ERECTOR - THE PARTY RESPONSIBLE FOR THE ERECTION OF THE STRUCTURAL STEEL.

FABRICATOR - THE PARTY RESPONSIBLE FOR FURNISHING FABRICATED STRUCTURAL STEEL.

OWNER - THE OWNER OF THE PROPOSED STRUCTURE OR HIS DESIGNATED REPRESENTATIVES, WHO MAY BE THE ARCHITECT, ENGINEER, GENERAL CONTRACTOR, PUBLIC AUTHORITY OR OTHERS.

PLANS - DESIGN DRAWINGS FURNISHED BY THE PARTY RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE.

ONCE THE NOTICE TO PROCEED IS GIVEN BY THE OWNER, THE GENERAL CONTRACTOR IS TO PROVIDE THE STRUCTURAL ENGINEER A WRITTEN ITEMIZED SCHEDULE OF THE SHOP DRAWINGS, SUBMITTAL DATES AND CONSTRUCTION SCHEDULE. THE GENERAL CONTRACTOR SHALL THEN FURNISH THE STRUCTURAL ENGINEER WITH A PROGRESS REPORT EVERY 30 DAYS NOTING ONLY STRUCTURAL ITEMS OF INTEREST.

THE GENERAL CONTRACTOR SHALL FURNISH THE STRUCTURAL ENGINEER WITH A CERTIFIED SET OF FIELD USE DRAWINGS FOR ALL FABRICATED ITEMS. NOTE ALL CHANGED OR REVISED ITEMS THAT DO NOT AGREE WITH THE ORIGINAL CONTRACT DOCUMENTS.

COLD-FORMED METAL FRAMING NOTES:

ALL LIGHT-GAGE METAL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAGE AND SPACING SHOWN ON THE DRAWINGS, AND SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC OR APPROVED EQUAL.

ALL MEMBERS SHALL BE CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH OF 33 or 50 KSI FOR CS-STYLE STUDS, 33 KSI FOR CR-RUNNERS, AND 50 KSI FOR STRAP BRACING.

CUT ALL FRAMING COMPONENTS SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER WEB PRIOR TO FASTENING.

FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS AS NOTED ON THE DRAWINGS.

ABUTTING LENGTHS OF RUNNERS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED OR SPLICED.

TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.

PROVIDE X-BRACING AS SHOWN ON PLANS AND DETAILS ON SHEET S5. SHEAR WALL SYSTEM IS TO BE MANUFACTURED BY STEEL NETWORK.

WALL STUD PROPERTIES ARE AS FOLLOWS:

400S-162-33: I_x = 0.692 in.^{4} S_x = 0.346 in.^{3} R_x = 1.586 in.
DESCRIPTION - 4", 20 GA - MIN. 1⅝" FLANGE x ½" RETURN
(INTERIOR STUD WALLS)

600S-162-54: I_x = 2.860 in.^{4} S_x = 0.953 in.^{3} R_x = 2.267 in.
DESCRIPTION - 6", 16 GA - MIN. 1⅝" FLANGE x ½" RETURN
(INFILL OVER OPEINGS-EXTERIOR WALL)

600S-200-68: I_x = 4.101 in.^{4} S_x = 1.367 in.^{3} R_x = 2.316 in.
DESCRIPTION - 6", 14 GA - MIN. 2" FLANGE x ⅝" RETURN
(EXTERIOR WALL KING STUDS)

600S-200-43: I_x = 2.683 in.^{4} S_x = 0.894 in.^{3} R_x = 2.335 in.
DESCRIPTION - 6", 18 GA - MIN. 2" FLANGE x ⅝" RETURN
(TYPICAL EXTERIOR WALL STUDS)

600S-200-54: I_x = 3.319in.^{4} S_x = 1.106 in.^{3} R_x = 2.327 in.
DESCRIPTION - 6", 16 GA - MIN. 2" FLANGE x ⅝" RETURN
(EXTERIOR WALL STUDS-OVERHANG)

1000S-200-54: I_x = 11.278 in.^{4} S_x = 2.256 in.^{3} R_x = 3.666 in.
DESCRIPTION - 10", 16 GA - MIN. 2" FLANGE x ⅝" RETURN
(LINTEL)

1200S-200-54: I_x = 17.662 in.^{4} S_x = 2.944 in.^{3} R_x = 4.306 in.
DESCRIPTION - 12", 16 GA- MIN. 2" FLANGE x ⅝" RETURN-
(LINTEL)

800S-162-43: I_x = 4.633 in.^{4} S_x = 1.158 in.^{3} R_x = 0.546 in.
DESCRIPTION - 8", 18 GA - MIN. 1⅝" FLANGE x ½" RETURN
(LINTEL)

DESIGN STUD CONNECTIONS FOR STRESSES INDUCED FOR COMPONENTS AND CLADDING WIND PRESSURES.

LIMIT WIND LOAD DEFLECTION TO L/360 FOR TYPICAL EXTERIOR WALL UNDER MWFRS WIND PRESSURES, NOT COMPONENTS AND CLADDING WIND PRESSURES.

ALL WALL STUDS SHALL BE SPACED AT 16" o.c. UNLESS NOTED OTHERWISE.

EXTERIOR WALL STUDS AT JAMBS SHALL BE 6" WIDE UNLESS OTHERWISE NOTED. QUANTITY REQUIRED AT EACH SIDE OF OPENING:

SUBMIT COMPLETE SEALED CALCULATIONS AND SHOP DRAWINGS FOR ALL METAL STUD COMPONENTS AND FRAMING. DETAILS SHALL INCLUDE ALL CONNECTIONS AND SPECIFY THE REQUIRED ATTACHMENT FOR THE ABOVE STATED WIND LOADS.

MASONRY

1. ALL CONCRETE MONRY UNITS ARE TO HAVE A MINIMUM F'm = 1500 PSI (ASTM C90). MASON IS TO BE LAID IN TYPE 'S' MORTAR.

2. REINFORCE AND CHOR ALL VENEER WALLS AT A MAXIMUM SPACING OF 16" o.c. UNO, & SPACE/ERTICALLY AS FOLLOWS:

WALL CONSTRUCTIONPE	WALL ANCHORS & HORIZONTAL JOINT REINFORCING
EXTERIOR WALLS 6" METAL STUD & 4" BRICK VENEER	ADJUSTABLE VENEER ANCHORS 14 GA, 3/16" ø WIRE w/ SEISMIC CLIP & CONT. 3/16" ø ROD IN VENEER (WIRE-BOND RJ-711 OR APPROVED EQUAL)

NOTE: PLACE WALL CHOR @ EACH STUD. FASTEN w/ 2 #10 TEK SCREWS OR AS DIRECTED BY NUFACTURER.

NOTE: SUBMIT ABOVFOR APPROVAL PRIOR TO START OF CONSTRUCTION

3. CONNECT ALL MANRY TO STEEL COLUMNS USING STRUCTURAL TRIANGLE AND WELD ON TIES BDURO WALL OR EQUIVALENT AT 16" o.c. VERTICALLY. WHERE APPLICABLE.

FILLED-CELL MASONRYHERE APPLICABLE)

1. MORTAR SHALL CFORM TO ASTM C270, TYPE S. GROUT SHALL CONFORM TO ASTM C6-91. WHERE CELLS OF 8" OR 12" UNITS ARE TO BE FILLED USE PEA GRA\ CONCRETE.

2. ALL FILLED-CELL SONRY SHALL BE BUILT TO PRESERVE THE UNOB-STRUCTED VERTICAL NTINUITY OF THE CELLS TO BE FILLED WITH GROUT.

3. UNITS SHALL BE D WITH FULL FACE SHELL MORTAR BEDS. ALL HEAD (END) JOINTS SLL BE CONTINUOUSLY FILLED WITH MORTAR FOR A DISTANCE FROM THE CE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LGITUDINAL FACE SHELLS. CROSS WEBS ADJACENT TO VERTICAL CORES TO IFILLED SHALL BE FULLY BEDDED WITH MORTAR TO PREVENT LEAKAGE OFROUT.

4. BOND OF MASONIUNITS SHALL BE PROVIDED BY LAPPING UNITS IN ALTERNATE COURSES? BY EQUIVALENT MECHANICAL ANCHORAGE WHEN UNITS ARE LAID IN STACK BD.

5. ALL MORTAR FINSR OTHER OBSTRUCTIONS OR DEBRIS SHALL BE REMOVED FROM THE IDES OF THE WALLS OF THE CELLS TO BE FILLED WITH GROUT. ALL CES TO BE FILLED SHALL BE FILLED SOLIDLY WITH GROUT.

6. THE MASONRY WAS SHALL CURE AT LEAST THREE DAYS TO GAIN STRENGTH BEFORE PCING OR PUMPING THE GROUT. GROUT SHALL BE PLACED BY PUMPING (BY AN APPROVED ALTERNATE METHOD, AND NO MORE THAN TWO HOURS AF? WATER HAS BEEN ADDED.

7. GROUT SHALL BE)URED OR PUMPED IN LIFTS OF 8 FT. MAXIMUM HEIGHT, AND SHALL BECONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING, FOLLOWED RECONSOLIDATION LATER, BEFORE PLASTICITY IS LOST. WHEN TOTAL OUT POUR IS TO EXCEED 8 FT. HIGH, IT SHALL BE DONE IN 4 FT. LIFTS.

8. WHEN GROUTING TO BE STOPPED FOR ONE HOUR OR LONGER BETWEEN LIFTS, HORIZONTAL CGTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR 1" BELOW TITOP OF THE UPPERMOST UNIT.

9. REINFORCED MASRY SHALL CONFORM TO ACI/ASCE 530. REINFORCING SHALL BE PLACED ASHOWN ON THE STRUCTURAL DRAWINGS AND TIED INTO POSITION BEFORE GRCING OF CELLS.

10. CONTRACTOR TO)TIFY ARCHITECT A MINIMUM OF THREE DAYS BEFORE GROUTING CELLS OF NFORCED MASONRY.

GROUT

1. GROUT UNDER COMN BASE PLATES AND BEAM BEARING PLATES IS TO BE PLACED UNIFORML'INDER BEARING PLATES TO THE REQUIRED BEARING ELEVATION.

CONTROL/MOVEMENT NTS

1. EXPANSION AND CCROL JOINTS SHALL BE IN ACCORDANCE WITH ASCE 530.1/ASCE 6 STION 2.2.6

2. UNLESS OTHERWISNDICATED ON THE DRAWINGS, THE FOLLOWING MINIMUM LOCATIONS AND MAXIM SPACINGS FOR VERTICAL CONTROL (SHRINKAGE) JOINTS SHALL APPLY. EE ARCHITECTURAL ELEVATIONS FOR LOCATION OF CONTROL/MOVEMENT NTS. IF NOT INDICATED, VERIFY LOCATIONS (AS RECOMMENDED BY INDTRY STANDARDS) WITH THE ARCHITECT PRIOR TO INSTALLATION.

A. AT 26 FEET MIMUM HORIZONTAL SPACING
B. AT CHANGES WALL HEIGHT OR THICKNESS
C. AT CONSTRUON JOINTS IN FOUNDATION, ROOF OR FLOORS
D. AT CHASES A RECESSES FOR PIPING, COLUMNS, FIXTURES, ETC.
E. AT ABUTMENTOF WALLS AND COLUMNS
F. AT RETURN ALES OF "L", "T" OR "U" SHAPED STRUCTURES
G. AT ONE OR BH SIDES OF WALL OPENINGS

3. ALL BOND BEAM HZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH VERTICAL CTROL/MOVEMENT JOINTS.

STRUCTURAL SEEL

1. STRUCTURAL STEES TO BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDAE WITH THE FOLLOWING:

A) SPECIFICATION F(THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOBUILDINGS WITH COMMENTARY EFFECTIVE JULY 1, 1989.

B) SPECIFICATION F(STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS ENDORSED BY 1 AISC, DATED NOVEMBER 13, 1985.

C) CODE OF STANDA PRACTICE FOR STEEL BUILDINGS AND BRIDGES ADOPTED BY THE AISC

2. STRUCTURAL STEEVIDE FLANGE SHAPES ARE TO BE ASTM A992 (50 KSI). ALL OTHER STEEL SHAS ARE TO BE A36 STEEL. STRUCTURAL STEEL TUBING IS TO BE ASTM A500, 'ADE B, Fy = 46 KSI. PIPE IS TO BE ASTM A501, Fy = 36 KSI.

3. ALL WELDING OF SUCTURAL STEEL IS TO BE IN ACCORDANCE WITH THE STRUCTURAL WELG CODE STEEL (ANSI/AWS D1.1) USING E70XX ELECTRODES.

4. ALL WELDING IS TOE PERFORMED BY WELDERS QUALIFIED FOR THE WELDING PROCEDURE RUIRED. QUALIFICATION IS TO BE IN ACCORDANCE WITH ANSI/AWS D1.1. EVENCE OF CURRENT CERTIFICATION AND QUALIFICATION IS TO EPROVIDED TO THE ARCHITECT.

5. ANCHOR BOLTS ARTO BE A36 MATERIAL UNLESS SHOWN OR NOTED OTHERWISE. ALL ANCH BOLTS ARE TO BE SET WITH A TEMPLATE PRIOR TO PLACING CONCRETE SLORT.

CONCRETE & RNFORCING

1. CONCRETE FOR THEROJECT IS TO BE:

28 DAY COMPRESSIVE

STRENGTH	NSITY	USAGE
3000 PSI	) PCF	FOOTINGS
3500 PSI	) PCF	SLAB ON GRADE
3000 PSI	) PCF	BLOCK FILL

2. CONCRETE SLAB OGRADE IS TO BE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC FCED ON SUPPORTS SO THAT THE REINFORCING IS AT THE MIDPOINT OF THE SB THICKNESS.

3. REINFORCING STEES TO BE ASTM A615, GRADE 60, FABRICATED AND PLACED IN ACCORDANGWITH ACI 318. PROVIDE AN ACI TYPE 'A' TENSION SPLICE FOR ALL REINFCING UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS.

ALL REINFORCING STEELAPS SHALL BE A MINIMUM OF 36 BAR DIA. UNLESS NOTED OTHERWISE, 24" I. USE CORNER BARS IN ALL CORNERS OF EACH RUN OF LONGITUDINAL NFORCING. CORNER BARS SHALL BE THE SAME SIZE AND SPACING AS NGITUDINAL BARS.

4. CONCRETE COVERA OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SEDULE UNLESS NOTED OTHERWISE.

A. FOOTINGS ANDRADE BEAMS	3 INCHES
B. BEAMS AND COMNS	1½ INCHES
C. SLABS ON GRA	2 INCHES

DESIGN LOADS:

Florida Building Code 2010/IBC 2009

BUILDING CLASSIFICATION:
GROUP II (FBC 2010/IBC 2009)
GROUP II ASCE 7-05 & ASCE 7-10
RISK CATEGORY II (ASCE 7-10)

LIVE LOADS:
ROOF 20 PSF
SLAB ON GRADE 100 PSF

Y / X

WIND	SEISMIC
BASIC WIND SPEED 119 MPH (3-sec gust) RISK CATEGORY II ASCE 7-10 MWFRS EXPOSURE 'C' BASIC VELOCITY PRESSURE = 30.8 psf q_z = .00256$K_zK_{zt}K_d$(V)^{2}I BASIC WIND SPEED 100 MPH (3-sec gust) GROUP II ASCE 7-05 MWFRS EXPOSURE 'C' BASIC VELOCITY PRESSURE = 21.76 psf q_z = .00256$K_zK_{zt}K_d$(V)^{2}I WIND BASE SHEAR (ASCE 7-05) Vx = 45.8 kips, Vy = 48.6 kips	FBC 2010 (IBC 2009) COLUMBIA CO., FLORIDA SEISMIC USE GROUP II SEISMIC DESIGN CATEGORY C BASIC STRUCTURAL SYSTEM: ORDINARY STL. CONCENTRICALLY BRACED FRAMES SITE CLASS D EQUIVALENT LATERAL FORCE V = CsW Cs= Sds/(R/I) = 0.130/(3/1) = 0.043W R = 3 Cd = 2¼ S_{DS} = 0.130 S_{MS} = 0.196 S_{D1} = 0.086 S_{M1} = 0.129 Ie = 1.0 V = CsW = Sds/(R/I) = 0.043W DESIGN BASE SHEAR = 0.043W SOIL BEARING 2000 PSF (assumed) ARCH, MECH, COMP'TS ANCHORED
	SNOW
	GROUND SNOW LOAD Pg = 0 PSF THERMAL FACTOR Ct = 1.0 EXPOSURE FACTOR Ce = 0.9 IMPORTANCE FACTOR Is = 1.0

FOUNDATION & SLAB ON GRADE

1. CONCRETE SLAB ON GRADE IS TO BE PLACED ON ENGINEERED, COMPACTED FILL. COMPACTION IS TO BE IN ACCORDANCE WITH STANDARD PROCTOR AT OR NEAR OPTIMUM MOISTURE CONTENT. THE UPPERMOST 1'-0" OF FILL IS TO BE 100% STANDARD PROCTOR, OTHER IS TO BE 95%.

2. A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED FOR THE PROJECT. THE FOUNDATION DESIGN SHOWN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. **THE GENERAL CONTRACTOR IS TO PROVIDE ADEQUATE SOIL TESTING PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER IN ORDER TO VERIFY THE ASSUMED BEARING PRESSURE. ALL TESTING TO BE PAID FOR BY THE OWNER.** MODIFICATIONS TO THE DESIGN MAY BE REQUIRED BASED ON THE SUBSURFACE INVESTIGATION AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

3. TOP OF FOOTING ELEVATIONS HAVE BEEN DEVELOPED USING AVAILABLE SITE INFORMATION. CONTRACTOR TO VERIFY ALL TOP OF FOOTING ELEVATIONS TO MAINTAIN A MINIMUM 12" OF COVER OVER TOP OF FOOTING.

SEISMIC REQUIREMENTS

MECHANICAL SYSTEMS: (EQUIPMENT, PIPING, DUCTWORK, ETC.)
SEISMIC DESIGN CATEGORY C. CONFORM WITH CHAPTER 13 ASCE 7-05, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL SYSTEMS:
SEISMIC DESIGN CATEGORY C. CONFORM WITH CHAPTER 13 ASCE 7-05, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ARCHITECTURAL SYSTEMS:
SEISMIC DESIGN CATEGORY C. CONFORM WITH CHAPTER 13 ASCE 7-05, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

SCHEDULE OF SPECIAL INSPECTION SERVICES

■ No special inspections required for this project
(Special inspection not required per section 1704.1.1)

☐ Special inspections required
The following list comprises the required schedule of special inspections for this project.
The construction divisions which require special inspections fro this project are as follows:

☐ IT-1 Verification of Soils	☐ IT-11 Structural Masonry
☐ IT-2 Excavation and Fill	☐ IT-12 Welding
☐ IT-3 Piling and Drilling Piers	☐ IT-13 High Strength Bolts & Steel Framing Inspections
☐ IT-4 Modular Retaining Walls	
☐ IT-5 Reinforced Concrete	☐ IT-14 Sprayed Fire Resistance Materials
☐ IT-6 Post Tension Slab	☐ IT-15 Exterior Insulation and Finish System
☐ IT-7 Pre-cast Concrete Erection	☐ IT-16 Seismic Resistance
☐ IT-8 Pre-stressed Concrete	☐ IT-17 Smoke Control
☐ IT-9 Inspection of Pre-Cast Fabricators	☐ IT-18 Detention Basin
☐ IT-10 Inspection of Structural Steel Fabricators	☐ IT-19 Special Cases

WOOD CONSTRUCTION:

DESIGN LOADS:

ROOF TRUSS: TOP CHORD 15 PSF DEAD LOAD 20 PSF LIVE LOAD
BOTTOM CHORD 10 PSF DEAD LOAD
NET UPLIFT 21 PSF PER ASCE-7

REFER TO PLANS FOR ADDITIONAL LOADS.

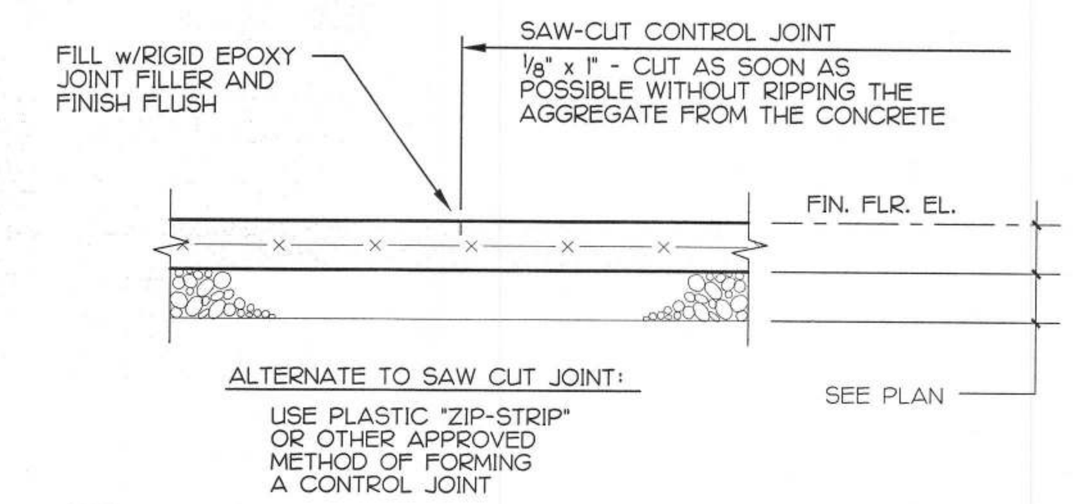
MAXIMUM DEFLECTION FOR WOOD TRUSSES IS L/360 FOR MAXIMUM DEAD LOAD PLUS 50 PERCENT OF THE MAXIMUM LIVE LOAD.

DESIGN AND FABRICATION OF ALL PREFABRICATED WOOD TRUSSES SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY AWPA, "TIMBER CONSTRUCTION STANDARDS" BY AITC AND "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TPI. ALL LUMBER FOR WOOD TRUSSES SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER. ALL LUMBER FOR TOP AND BOTTOM CHORDS SHALL BE 2x6 MATERIAL OR LARGER. THE TRUSS DESIGN SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE NAME AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA. SUBMIT SHOP DRAWINGS ON ALL MATERIALS FOR REVIEW BEFORE FABRICATION. ALL SUBMITTALS TO THE ENGINEER SHALL BE PREVIOUSLY REVIEWED BY THE CONTRACTOR, WITH HIS APPROVAL STAMPED ON THE DRAWINGS, DATED AND SIGNED. SUBMITTALS NOT CONFORMING SHALL BE SUFFICIENT REASON FOR REJECTION.

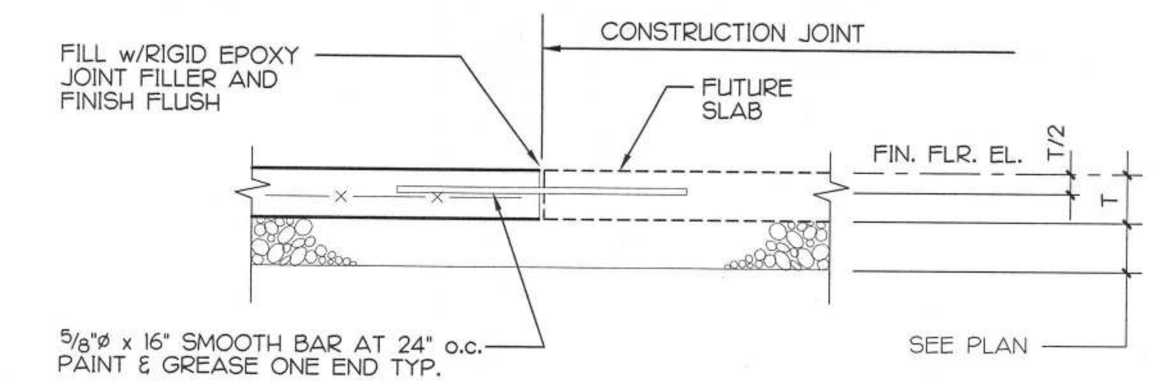
ALL TRUSS CONNECTOR CAPACITIES SHALL BE VERIFIED WITH FINAL TRUSS CALCULATIONS PRIOR TO ERECTION. THE GENERAL CONTRACTOR SHALL COORDINATE ANY AND ALL REVISIONS. ADDITIONAL CONNECTORS MAY BE REQURED.

PREMANUFACTURED WOOD TRUSSES SHALL BE BRACED BOTH TEMPORARILY DURING CONSTRUCTION AND PERMANENTLY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE AND WOOD TRUSS COUNCIL OF AMERICA "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES - BCSI 1-03" AND AS REQUIRED BY THE DESIGN OF THE TRUSSES. A COPY OF "HANDLING, INSTALLING AND BRACING WOOD TRUSSES: BCSI 1-03" SHALL BE KEPT AT THE JOB SITE AT ALL TIMES FOR REVIEW AND REFERRAL.

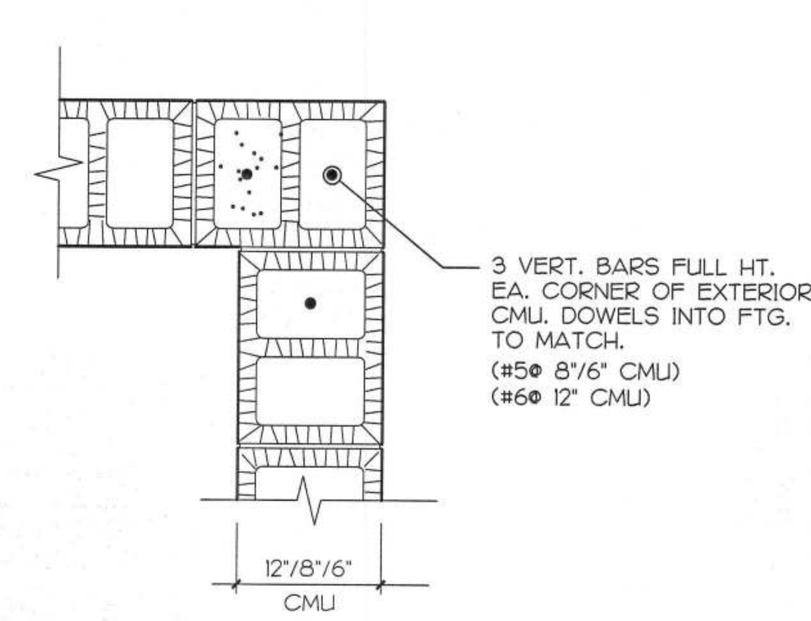
FAILURE TO FOLLOW THE PROVISIONS OF "BCSI 1-03" IN HANDLING AND INSTALLATION OF TRUSSES CAN RESULT IN SERIOUS INJURIES. INEXPERIENCED AND / OR UNINSTRUCTED INSTALLERS SHALL NOT BE PERMITTED TO ERECT TRUSSES.



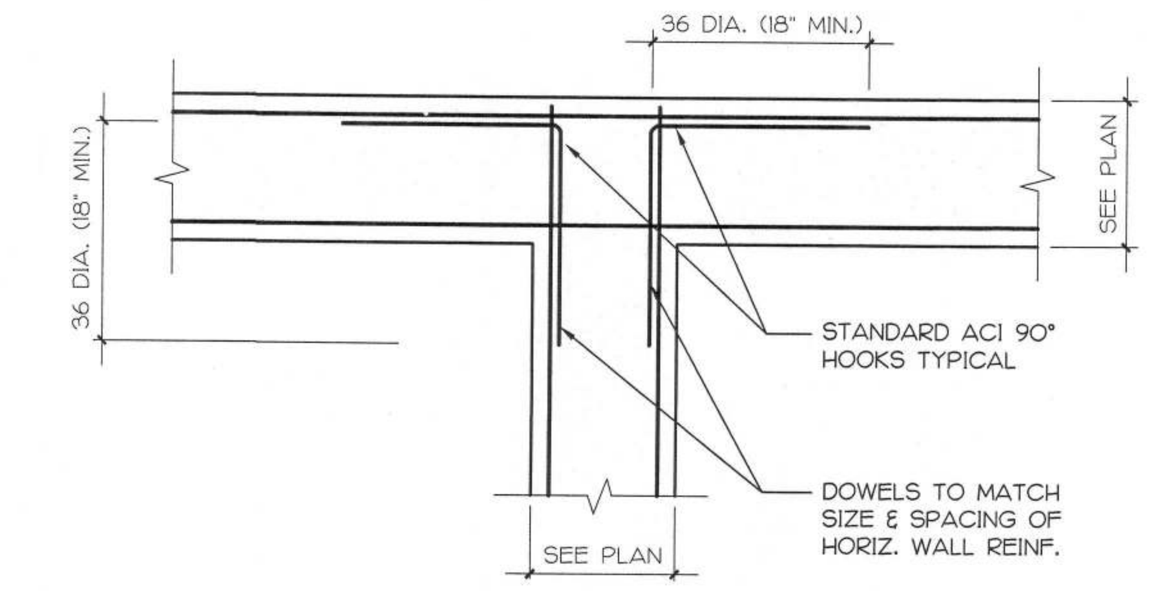
1/S1 SECTION AT SAW-CUT JOINT
NO SCALE



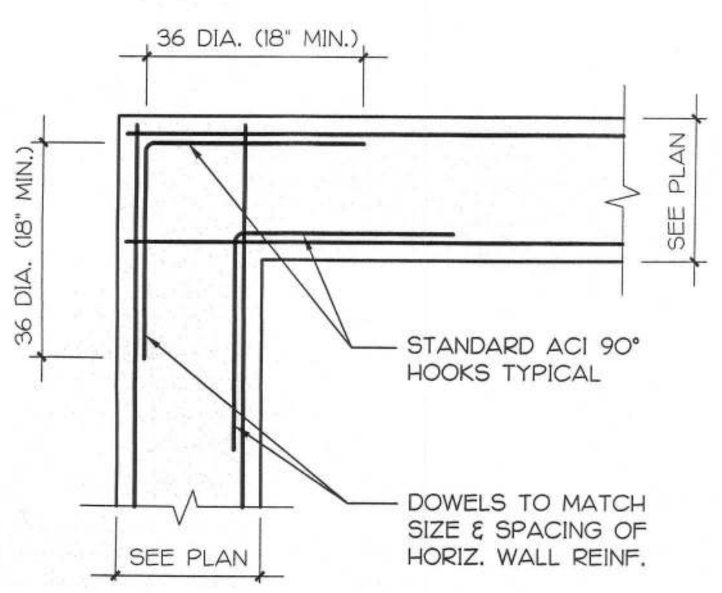
2/S1 SECTION AT CONTROL JOINT
NO SCALE



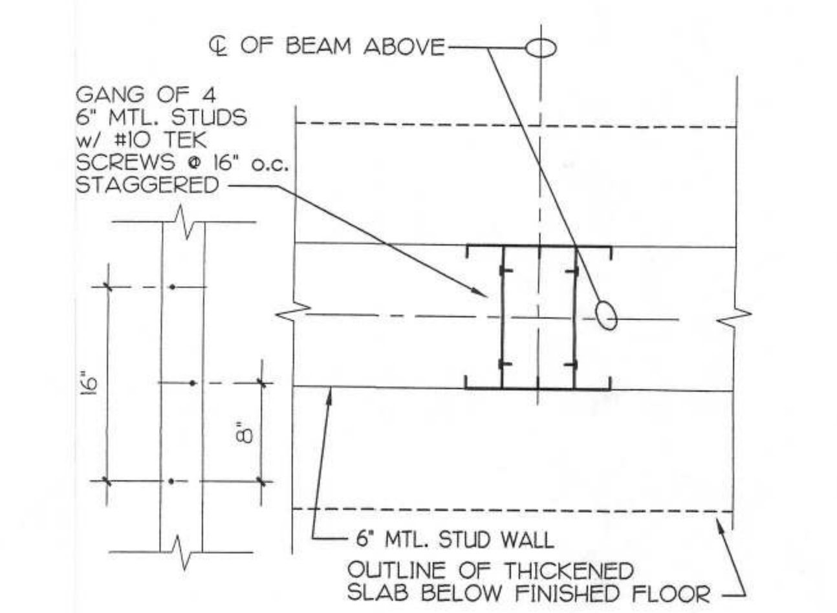
3/S1 TYP. CORNER REINF.
NO SCALE



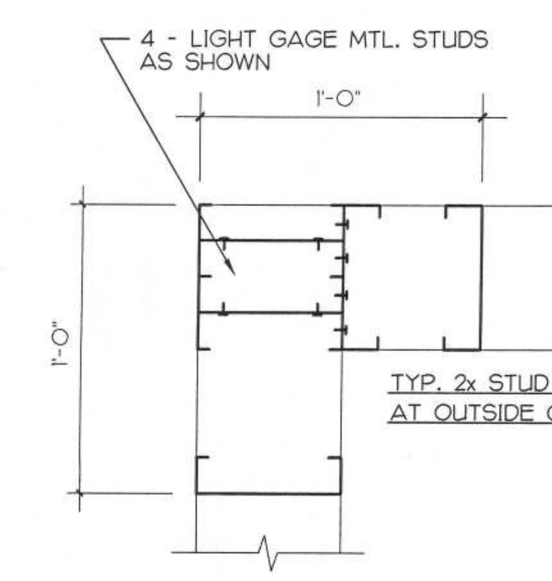
4/S1 TYPICAL WALL/FTG CORNER BAR DETAILS
NO SCALE



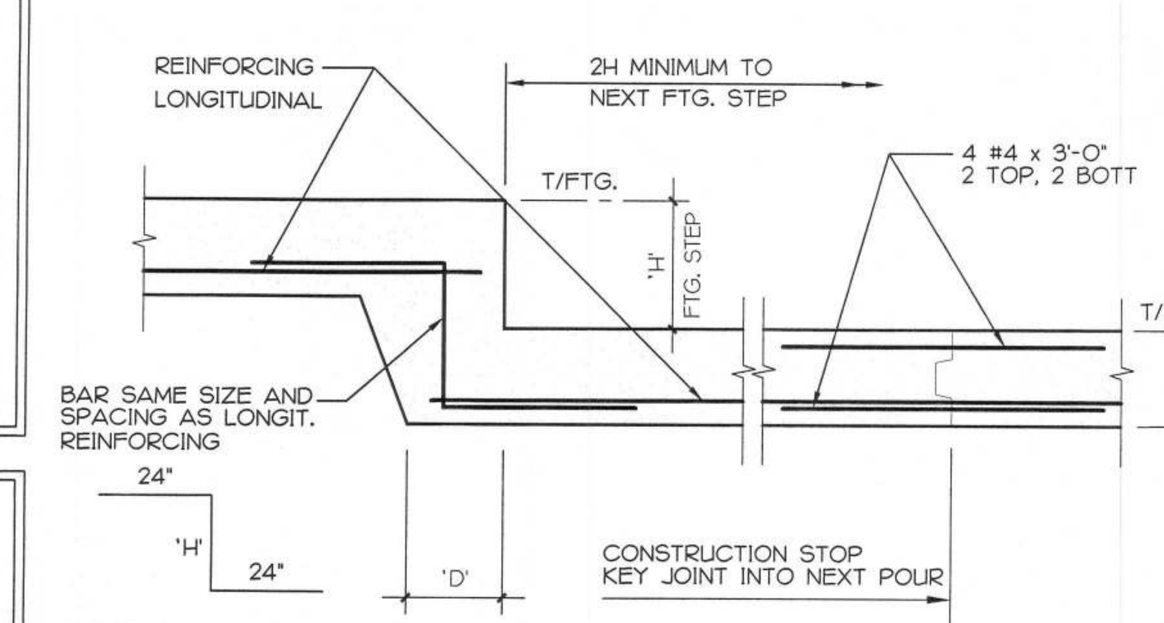
5/S1 TYPICAL WALL/FTG CORNER BAR DETAILS
NO SCALE



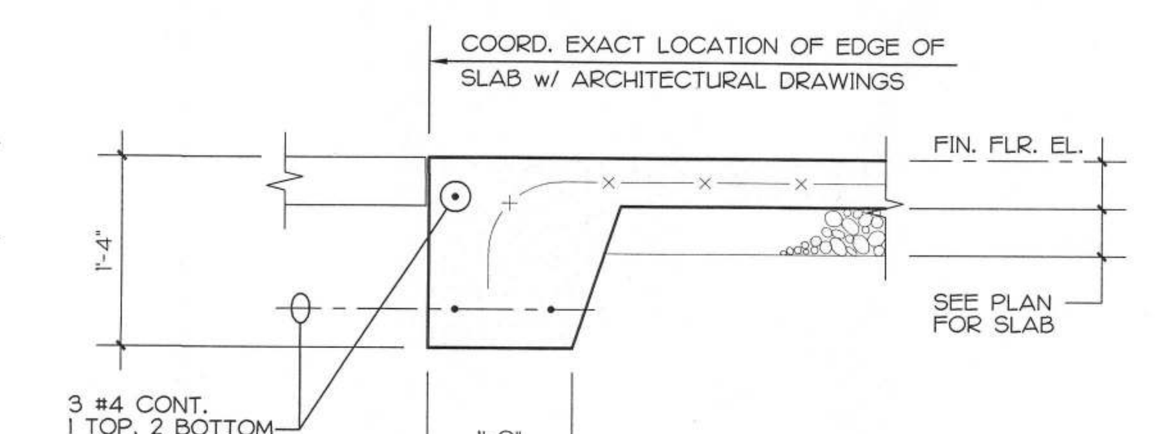
6/S1 PLAN AT STUD WALL LOAD BEARING POINTS
3/4" = 1'-0"



7/S1 PLAN AT STUD WALL OUTSIDE CORNERS



8/S1 SECTION AT FOOTING STEP
3/4" = 1'-0"



9/S1 SECTION @ TURNED DOWN SLAB
3/4" = 1'-0"

WOOD CONSTRUCTION (CONT.):

THE GENERAL CONTRACTOR SHALL FURNISH THE STRUCTURAL ENGINEER WITH A CERTIFIED SET OF FIELD USE DRAWINGS FOR ALL FABRICATED ITEMS. NOTE ALL CHANGED OR REVISED ITEMS THAT DO NOT AGREE WITH THE ORIGINAL CONTRACT DOCUMENTS. REVISIONS, SUBSTITUTIONS, ETC. SHALL HAVE WRITTEN APPROVAL.

CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ALL EXTERIOR & INTERIOR LOAD BEARING WALLS SHALL BE BRACED IN BOTH DIRECTIONS PRIOR TO ERECTION OF ANY ROOF TRUSSES. BRACING SHALL REMAIN IN PLACE UNTIL BUILDING STRUCTURE IS COMPLETE.

ALL SYP NO. 2 SHALL CONFORM TO THE FOLLOWING PROPERTIES:
MINIMUM SECTION PROPERTIES AS NOTED:
A. Fb = 1250 psi Ft = 725 psi Fc ⊥ = 565 psi
Fc‖ = 1600 psi E = 1.6x10^{6}psi

THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING ALL TRUSS TO TRUSS HANGERS AND CONNECTIONS.

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
P.O. Box 3210
Matthews, NC 28106
(Phone) (704) 574-8083
(Fax) (704) 442-7290
E-Mail: ghunter@carolina.rr.com

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Florida License No. 56269, Expiration Date: 02-28-2015.

H. EUGENE HUNTER LICENSE No. 56269 STATE OF FLORIDA PROFESSIONAL ENGINEER

01/28/14

New Free Standing RETAIL BUILDING
2434 U.S. HWY. 90 WEST
Lake City, FL

REVISIONS	
	HSPA No: 2705
	DATE: 01/28/14
	DRAWN BY: CAD
	APPROVED BY: HEH

GENERAL NOTES, SECTIONS AND DETAILS

SHEET NUMBER S1

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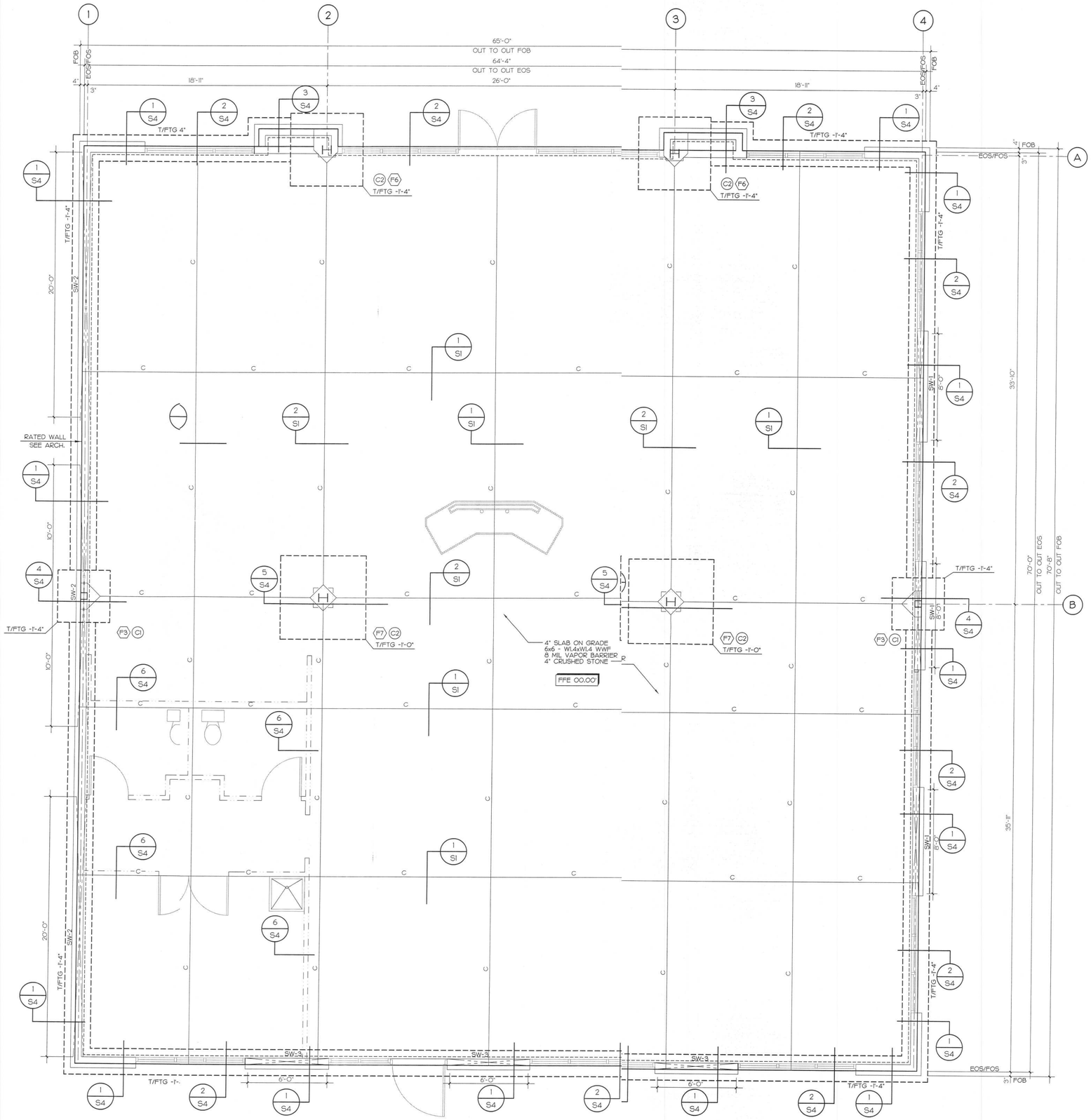

FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION PLAN NOTES:

FINISHED FLOOR ELEVATION IS XX.X' (REF. 0'-0") UNLESS NOTED OTHERWISE ON PLAN AS -0'-0". VERIFY WITH CIVIL TOP OF FOOTING (T/FTG) IS MEASURED RELATIVE TO FINISHED

FLOOR ELEVATION 0.00' (REF. 0'-0") AND IS -1'-4" TYPICAL UNLESS NOTED OTHERWISE ON PLAN AS -0'-0".

FFE — INDICATES FINISHED FLOOR ELEVATION
T/FTG — INDICATES TOP OF FOOTING
EOS — INDICATES EDGE OF SLAB
FOB — INDICATES FACE OF BRICK/FACE OF BUILDING
FOS — INDICATES FACE OF STUD
C — INDICATES SLAB CONTROL JOINT
F.V. — INDICATES FIELD VERIFY
F# — INDICATES FOOTING MARK SEE SCHEDULE ON S4
C# — INDICATES COLUMN MARK SEE SCHEDULE ON S4
— INDICATES SPOT ELEV. (APPROX.) RELATIVE TO FFE 0'-0"
— LINETYPE INDICATES NON-LOAD BRG. WALL
SB-# — INDICATES APPROX. BORING LOCATION SEE SOIL REPORT

REFER TO ARCHITECTURAL FLOOR PLAN FOR DIMENSIONS OF ALL INTERIOR MASONRY WALLS SHOWN ON PLAN.

COORDINATE ALL WALL RECESSES FOR EQUIPMENT w/ ARCHITECTURAL DRAWINGS.

NOTE:
COORDINATE ALL DIMENSIONS SHOWN WITH LATEST ARCHITECTURAL FLOOR PLANS, AND NOTIFY ARCHITECT OF ANY CONFLICTS. ALL DIMENSIONS SHOWN ARE TO FACE OF BUILDING (FOB) OR EDGE OF SLAB (EOS) UNLESS NOTED OTHERWISE.

NOTE: SEE ARCHITECTURAL DWG's FOR ALL DRAIN LOCATIONS & FLOOR DEPRESSIONS

NOTE: TYP. WALL FOOTING WIDTH IS 2'-0" UNLESS NOTED OTHERWISE - SEE PLAN AND SECTIONS

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
(Phone) (704) 574-8083
(Fax) (704) 442-7290
P.O. Box 3210
Matthews, NC 28106
ghunterarcolina.fr.com

H. EUGENE HUNTER LICENSE 48209 STATE OF FLORIDA PROFESSIONAL ENGINEER

01/20/14

New Free Standing RETAIL BUILDING

2434 U.S. HWY 90 WEST

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FOUNDATION PLAN

SHEET NUMBER S

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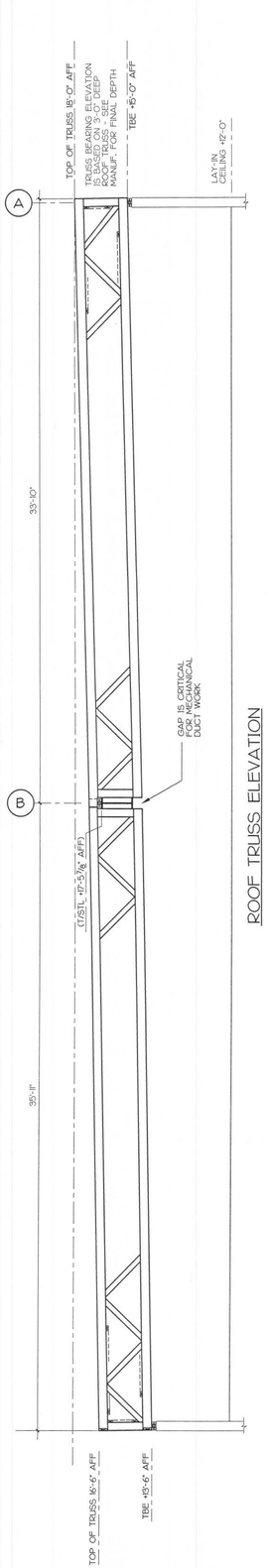
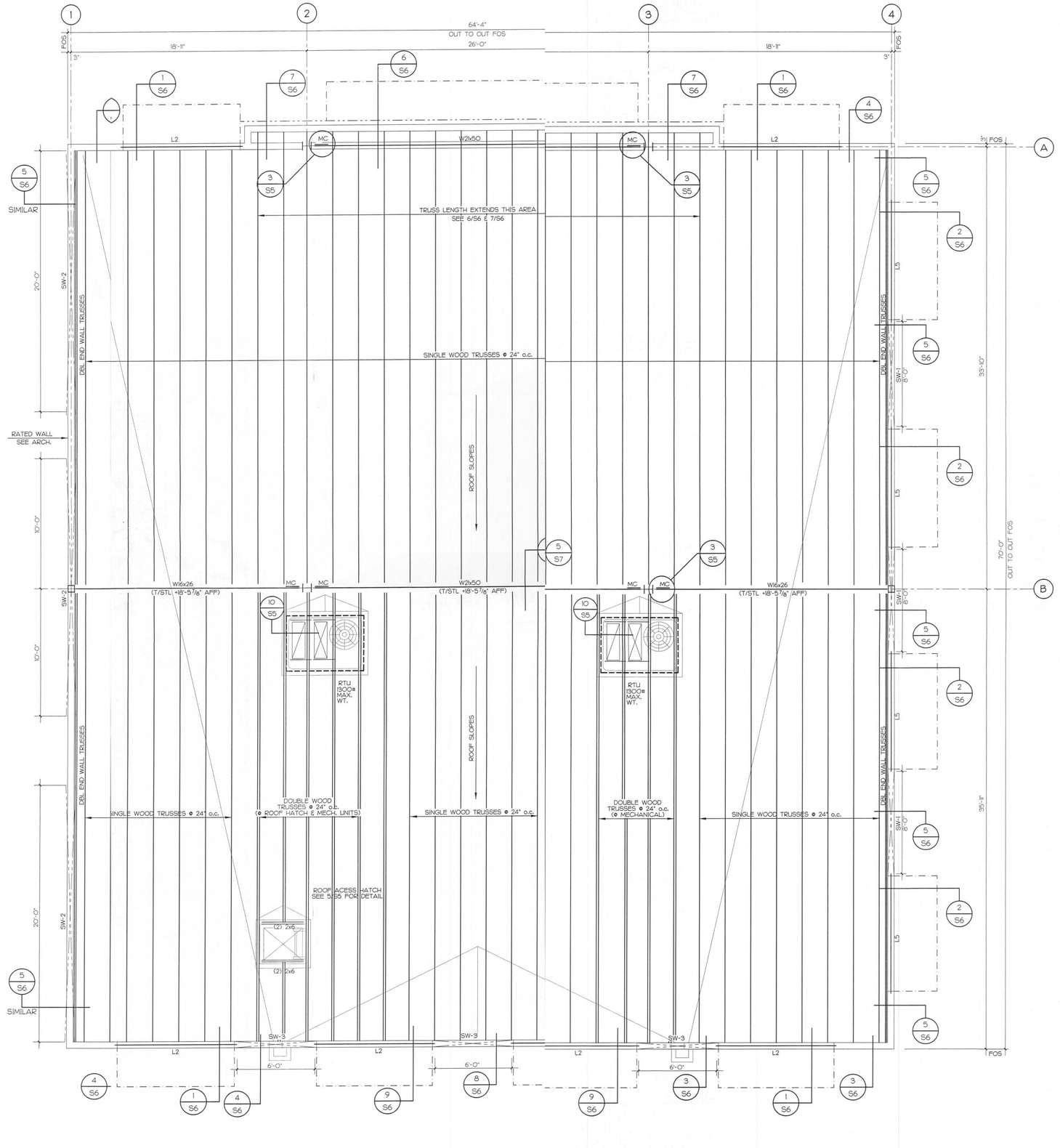


ROOF TRUSS ELEVATION



ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

TRUSS BEARING ELEVATION (T.B.E.) IS MEASURED RELATIVE TO FINISHED FLOOR ELEVATION 00.00' (REF. 0'-0") AND IS NOTED ON PLAN.

ALL PRE-ENGINEERED OPEN-WEB ROOF TRUSSES SHALL BE DIAGONALLY BRACED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. SEE II/S5 FOR TYPICAL TRUSS BRACING DETAILS.

ROOF DECKING ON WOOD TRUSSES SHALL CONFORM TO THE FOLLOWING:

A) 3/4" PLYWOOD SHEATHING (APA RATED), 48" PANEL WIDTH w/ A MINIMUM 2 SPAN CONDITION. NAIL AS NOTED ON 4/S7.

B) PROVIDE SHEATHING CLIPS @ 12" o.c. MAX BETWEEN SUPPORTS.

C) NAIL ALL SHEATHING TO SUPPORTS AT SPACING AND PATTERN DETAILED ON 4/S7. SEE II/S5 FOR TYPICAL TRUSS BRACING AND PLYWOOD BRACING DETAILS.

COORD. ALL MECHANICAL UNITS AND THEIR LOCATIONS WITH MECHANICAL CONTRACTOR, ARCHITECT/ ENGINEER SHALL BE NOTIFIED OF CHANGES IN LOCATION, WEIGHT OR ADDITION OF ROOF SUPPORTED EQUIPMENT.

STEEL FABRICATOR TO COORD. EXACT LOCATION & SIZE OF ROOF OPENINGS WITH G.C. & MECHANICAL CONTRACTOR. ROOF TOP UNIT LOCATIONS SHALL BE SHOWN ON STEEL SHOP DRAWINGS.

COORDINATE ALL DIMENSIONS WITH ARCH. DRAWINGS

P.T.	—	INDICATES PRESSURE TREATED
T&G	—	INDICATES TONGUE AND GROOVE
FOS	—	INDICATES FACE OF STUD
FOB	—	INDICATES FACE OF BUILDING
FFE	—	INDICATES FINISHED FLOOR ELEVATION
TBE	—	INDICATES TRUSS BEARING ELEVATION
P.E.	—	INDICATES PRE-ENGINEERED
F.V.	—	INDICATES FIELD VERIFY
L*	—	INDICATES LINTEL - SEE SHEET S5 FOR LINTEL SCHEDULE
MC	—	INDICATES MOMENT CONNECTION - SEE 3/S5
SW*	—	INDICATES VERTICAL SHEARWALL SEE SHEET S/S4

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
(Phone) (704) 574-9083
(Fax) (704) 452-2080
E-Mail: ghunter@carolina.rr.com
P.O. Box 3210
Matthews, NC 28106

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ROOF FRAMING PLAN

SHEET NUMBER S3

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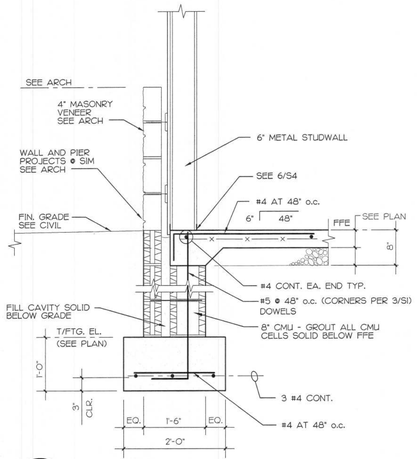
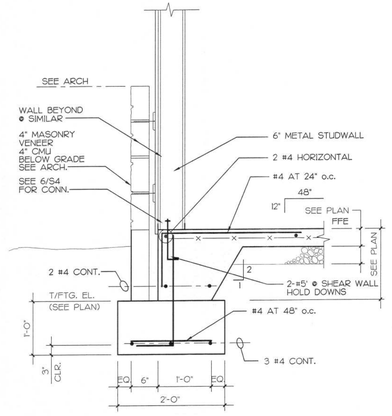


1 / S4 SECTION AT WALL FOOTING

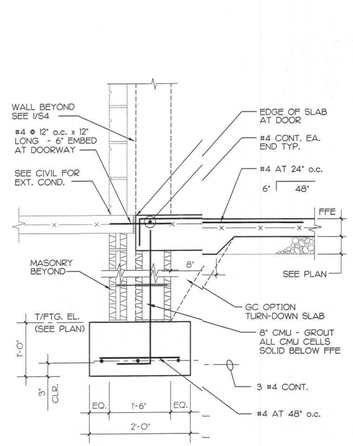
3/4" = 1'-0"



1A / S4 SECTION AT WALL FOOTING

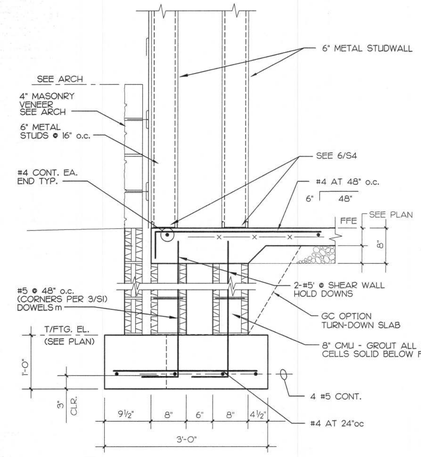
3/4" = 1'-0"

GC OPTION



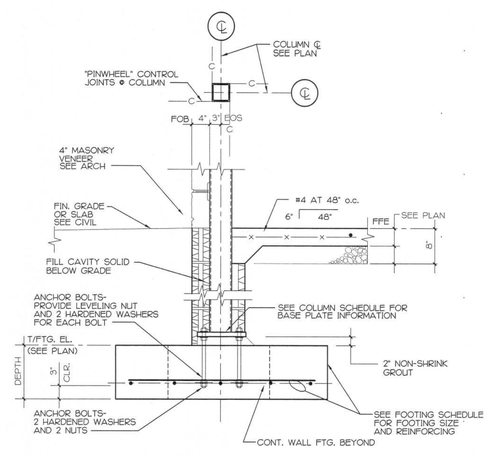
2 / S4 SECTION AT DOOR

3/4" = 1'-0"



3 / S4 SECTION

3/4" = 1'-0"



4 / S4 SECTION AT EXTERIOR COLUMN FOOTING

3/4" = 1'-0"

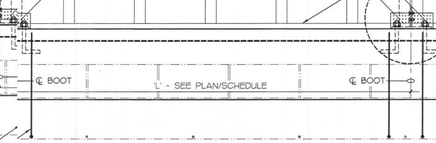
TYPICAL

5 / S4 SECTION AT INTERIOR COLUMN

3/4" = 1'-0"

6 / S4 TYPICAL STUD ATTACHMENT

1½" = 1'-0"

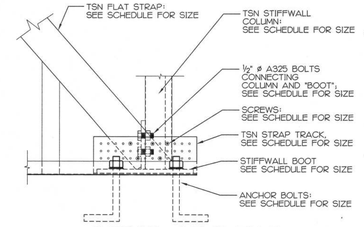


7 / S4 TRACK/STUD LAYOUT

N.T.S.

8 / S4.1 SHEAR WALL PANEL ELEVATION

NO SCALE



9 / S4 DETAIL AT SHEAR WALL CONNECTION

NO SCALE

FOOTING SCHEDULE

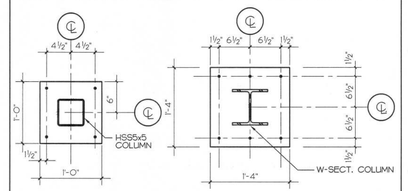
assumed 2000 psf brg.

MARK	DEPTH	SIZE	REINFORCING EACH WAY	REMARKS
F1	12"	3'-0" x 3'-0"	4 #4 x 2'-6"	
F2	12"	3'-6" x 3'-6"	4 # 4 x 3'-0"	
F3	12"	4'-0" x 4'-0"	5 # 4 x 3'-6"	
F4	12"	4'-6" x 4'-6"	4 # 5 x 4'-0"	
F5	1'-2"	5'-0" x 5'-0"	5 # 5 x 4'-6"	
F6	1'-4"	5'-6" x 5'-6"	6 # 5 x 5'-0"	
F7	1'-4"	6'-6" x 6'-6"	8 # 5 x 6'-0"	

COLUMN SCHEDULE

MARK	SHAPE	BASE PLATE	ANCH. BOLTS	BASE PLATE TYPE
C1	HSS5x5x1/4	3/4"x12"x1'-0"	4 - 3/4" ø	TYPE I
C2	W8x40	1'x16"x1'-4"	4 - 1" ø	TYPE II

BASE PLATE DETAILS



SHEAR WALL SCHEDILE

FLOOR LEVEL	SHEAR LOAD	COLUMN STUD DESIGN	'RAP (SIGN	#12 STRAP SCREWS	BOOT DESIGN	FLOOR BOLTS
SHEAR WALL #1 (SW-1) SCHEDULE (8'-ℂ LENGTH) EXTERIOR						
HEIGHT VARIES TOP OF TRUSS	5.2 KIPS	(2) 6"x2"x16 GAGE (2) 600C250-54	6'16 GAGE ℓ 54 MIL	10	SMALL	2-7/8"ø BOLTS
SHEAR WALL #2 (SW-2) SCHEDULE (2C-0" LENGTH) EXTERIOR						
FLOOR LEVEL	SHEAR LOAD	COLUMN DESIGN	'RAP (SIGN	#12 STRAP SCREWS	BOOT DESIGN	FLOOR BOLTS
HEIGHT VARIES TOP OF TRUSS	12.5 KIPS	(2) 6"x2"x14 GAGE (2) 600C250-68	6'14 GAGE ℓ 68 MIL	16	SMALL	2-7/8"ø BOLTS
SHEAR WALL #3 (SW-3) SCHEDULE (6'-D" LENGTH) EXTERIOR						
FLOOR LEVEL	SHEAR LOAD	COLUMN STUD DESIGN	'RAP (SIGN	#12 STRAP SCREWS	BOOT DESIGN	FLOOR BOLTS
HEIGHT ALL SAME	6.0 KIPS	(2) 6"x2"x16 GAGE (2) 600C250-54	6'16 GAGE ℓ 54 MIL	10	SMALL	2-7/8"ø BOLTS

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
(Phone) (704) 574-8083
(Fax) (704) 442-1449
P.O. Box 3210
Matthews, NC 28106
ghunterecarolina1r.com

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01/28/14

New Free Standing RETAIL BUILDING

2434 U.S. HWY. 90 WEST
Lake City, FL

RE/ISIONS

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SECTIONS AND DETAILS

SHEET NUMBER S4

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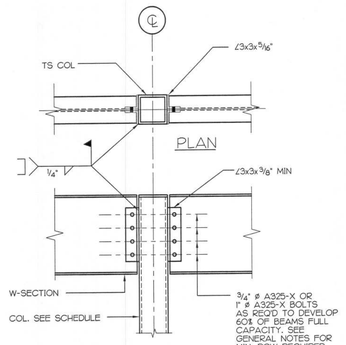
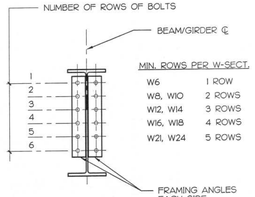
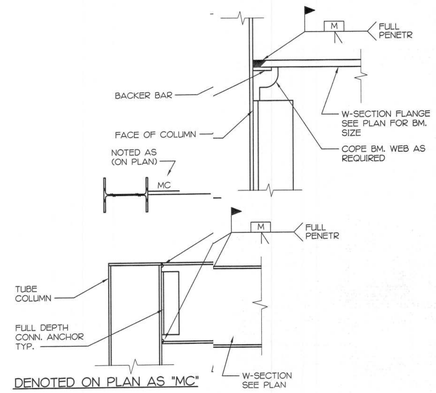


1 S5 TYPICAL BEAM/COL. CONNECTION
N.T.S. TYPICAL

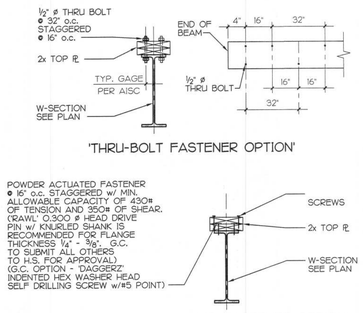


2 S5 FRAMING ANGLE CONNECTIONS
3/4" = 1'-0" TYPICAL

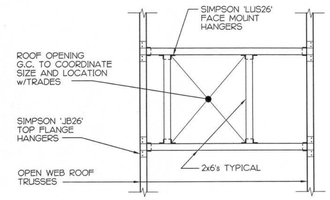


DENOTED ON PLAN AS "MC"

3 S5 TYPICAL MOMENT CONNECTION
3/4" = 1'-0"

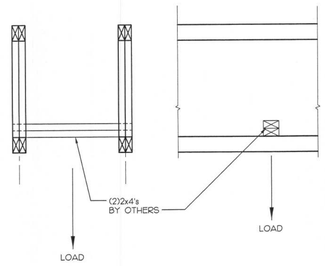


4 S5 TYP. SECTION AT BEAM W/ DOUBLE 2X NAILER
NO SCALE

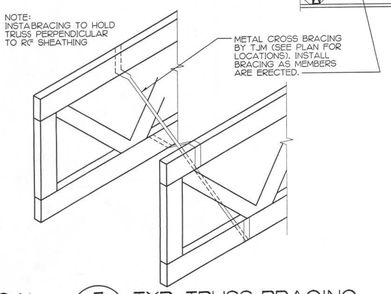


NOTE:
LOCATE FRAMES AT ALL ROOF OPENINGS GREATER THAN 9'- AT MECHANICAL UNITS. LOCATE THE FRAME MEMBERS ALONG THE CURB PERPENDICULAR TO THE JOIST FOR SUPPORT.

5 S5 TYPICAL ROOF OPENING
3/4" = 1'-0"

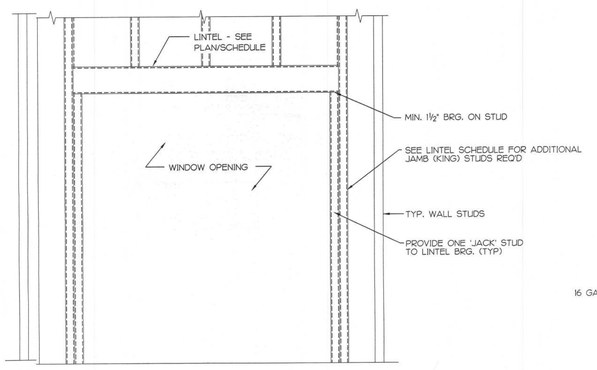


SUPPORT DETAIL FOR LOADS SUPPORTED FROM BOTTOM CHORD

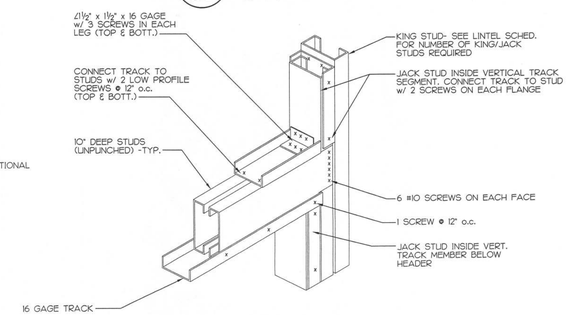


6 S5 TYP. BOTTOM CHORD ADDL. LOAI
3/4" = 1'-0"

7 S5 TYP. TRUSS BRACING
3/4" = 1'-0"



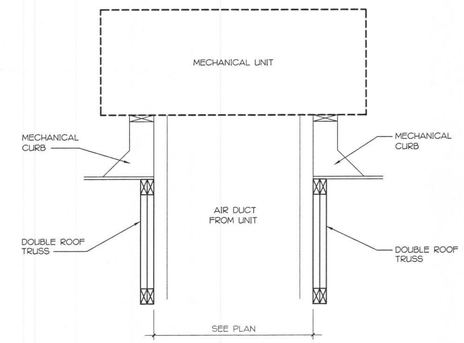
8 S5 ELEVATION @ WINDOW OPENINGS
3/4" = 1'-0" TYPICAL

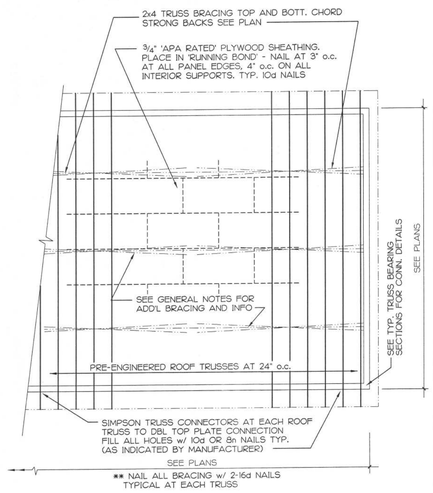


NOTE: PROVIDE 8" LONG VERTICAL TRACK SEGMENTS @ HEADER ELEVATION AND @ 4'-0" o.c. (MAX.) ABOVE AND BELOW HEADER SO THAT MULTIPLE JAMB STUDS CAN BE CONNECTED TOGETHER.

G.C. OPTION- IN LIEU OF USING TRACK SEGMENTS, WELD JAMB STUDS TOGETHER w/ 1/8" x 2" LONG FLARE-GROOVE WELDS @ 32" o.c. (EACH FACE).

9 S5 LOW HEADER CONNECTION
NO SCALE TYPICAL

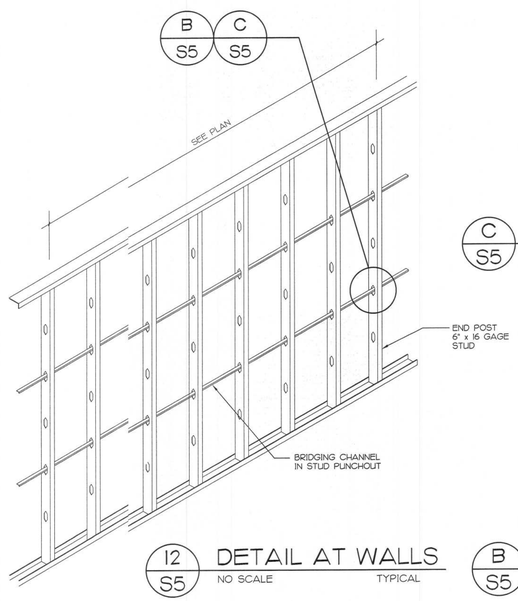




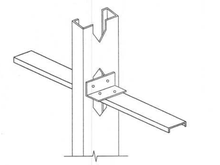
AT FLAT ROOF

10 S5 TYPICAL ROOF OPENING DETAIL
NO SCALE

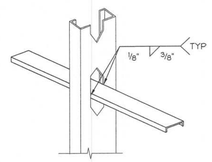
11 S5 TYPICAL ROOF BRACING PLAN
NO SCALE



12 S5 DETAIL AT WALLS
NO SCALE TYPICAL



C S5 BRIDGING CHANNEL SCREW-ATTACHED USING BRIDGE CLIP (BC)
SPACING @ 48" oc TYPICAL



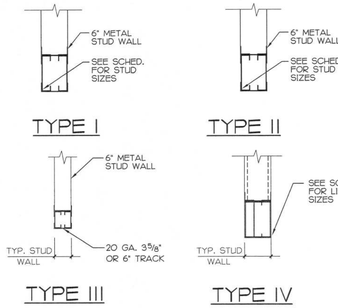
B S5 BRIDGING CHANNEL WELD-ATTACHED IN STUD PUNCH-OUT
SPACING @ 48" oc TYPICAL

LINTEL SCHEDULE

MARK	MAX. SPAN	WALL CONSTR.	LINTEL TYPE & DESCRIPTION	REMARKS	KING STUDS REQUIRED
L1	5'-0"	6" METAL STUD	TYPE I-2-8" x 18 GAGE EXTERIOR WALLS		2 KING STUDS EACH SIDE
L2	10'-0"	6" METAL STUD	TYPE II-3-10" 16 GAGE EXTERIOR WALLS		4 KING STUDS EACH SIDE
L3	12'-0"	6" METAL STUD	TYPE II-3-12" 16 GAGE EXTERIOR WALLS		5 KING STUDS EACH SIDE
L4	4'-0"	6" METAL STUD	TYPE III-2-3 5/8" 20 GAGE INT/ NON-BRG WALLS		2 KING STUDS EACH SIDE
L5	9'-0"	6" METAL STUD	TYPE II-2-10" 16 GAGE EXT. NON-LOAD BRG. WALL		4 KING STUDS EACH SIDE

NOTE: PROVIDE LINTELS AT ALL WALL OPENINGS REQUIRED FOR MECHANICAL, HVAC OR PLUMBING PENETRATIONS. USE THE ABOVE SCHEDULE AS A GUIDE FOR LINTEL SELECTION FOR LINTELS NOT SHOWN.

PROVIDE 'LF' LINTELS FOR ALL DUCT WORK THAT PASSES THRU INTERIOR LOADBEARING WALLS



H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
(Phone) (704) 574-8083
(Fax) (704) 442-7290
E-Mail
P.O. Box 3292
Matthews, NC 28106
ghunter@carolina.rr.com

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Florida
License No. 56269, Expiration Date: 02-28-2015.

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01/28/14

New Free Standing RETAIL BUILDING
2434 U.S. HWY. 90 WEST
Lake City, FL

REVISIONS

HSPA No: 2705
DATE: 01/28/14
DRAWN BY: CAD
APPROVED BY: HEH

SECTIONS AND DETAILS

SHEET NUMBER S5

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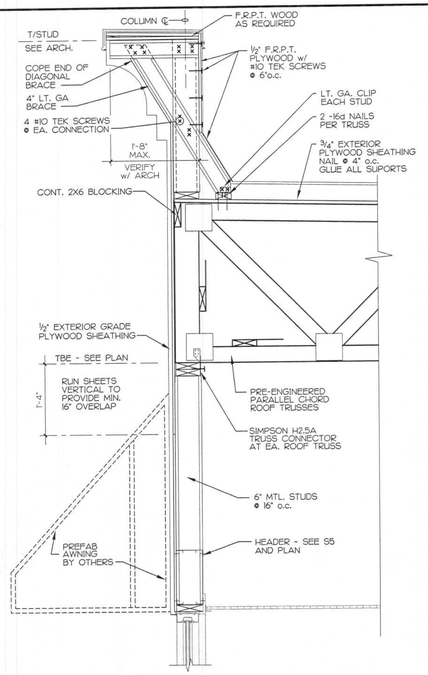
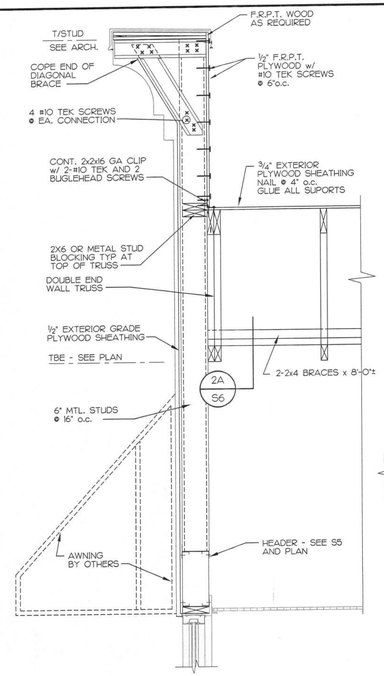
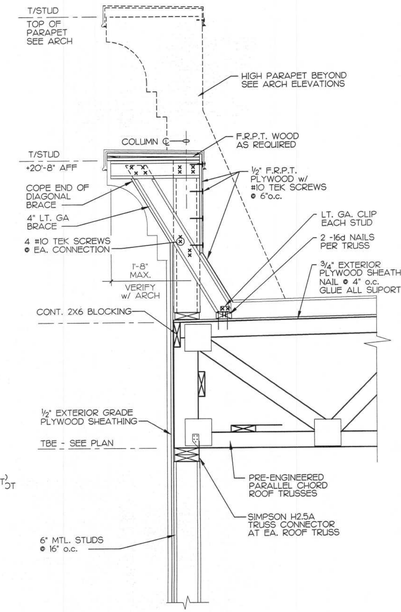


1/S6 SECTION AT CANOPY
3/4" = 1'-0"

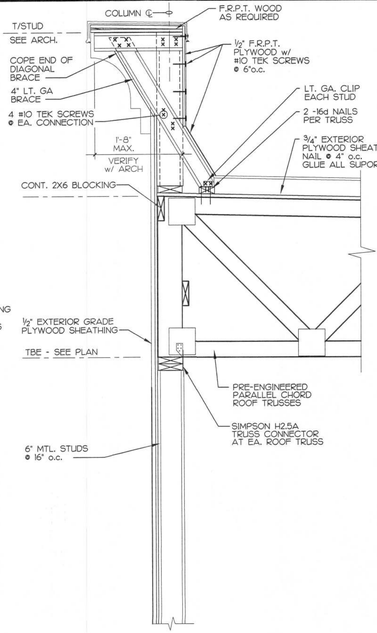


2/S6 SECTION AT CANOPY
3/4" = 1'-0"

2A/S6 SECTION
3/4" = 1'-0"



3/S6 SECTION AT ROOF
3/4" = 1'-0"



4/S6 SECTION AT CANOPY
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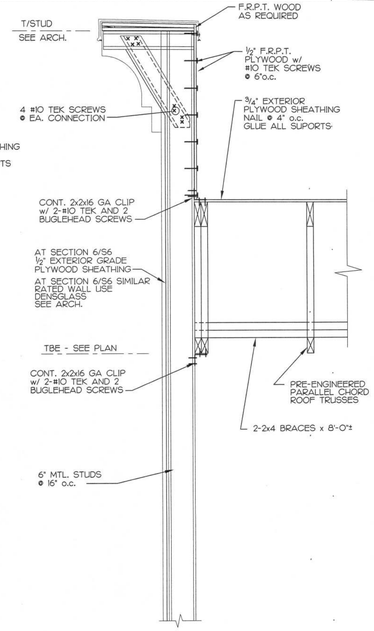

5/S6 SECTION AT ROOF
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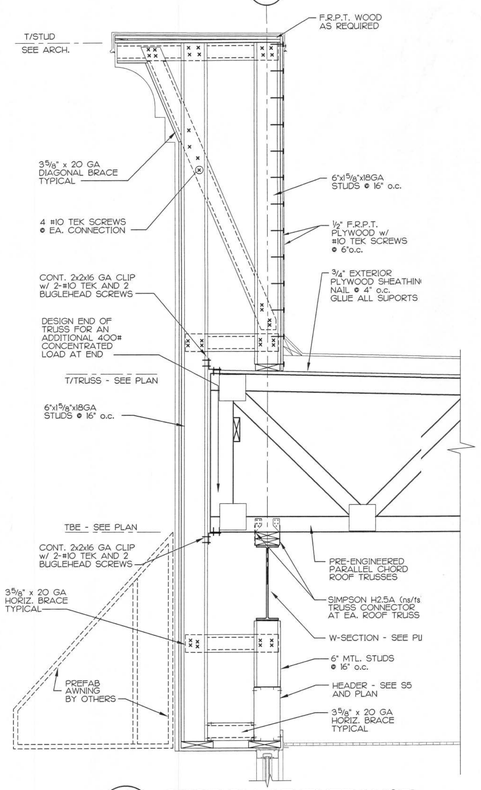
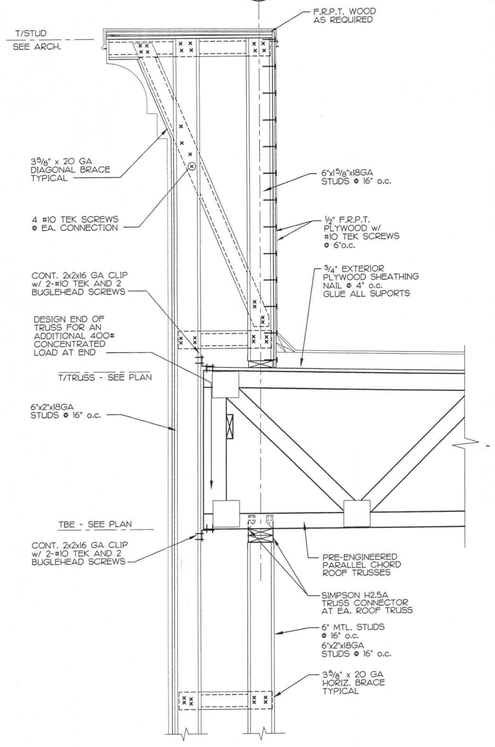
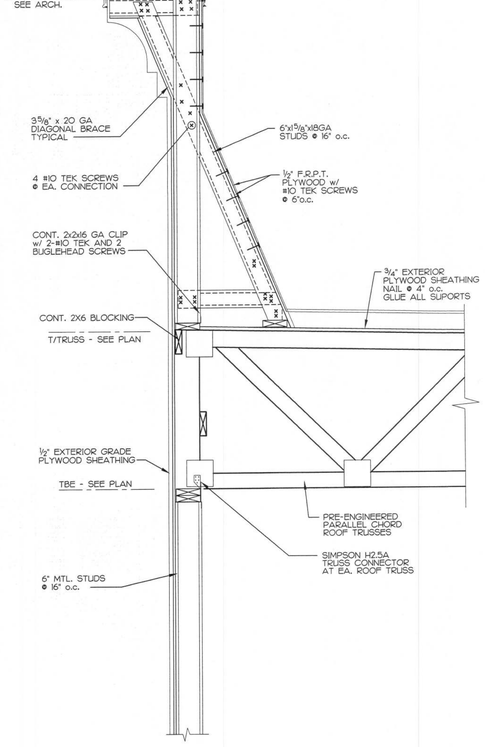


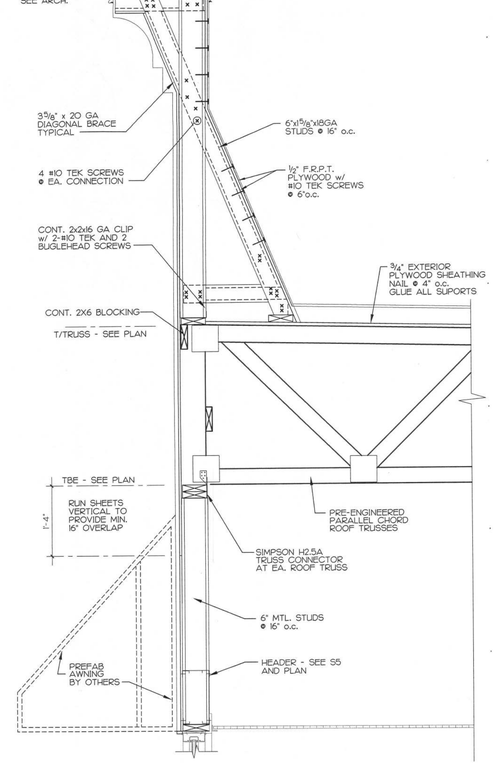
6/S6 SECTION AT ENTRANCE
3/4" = 1'-0"



7/S6 SECTION AT STOREFRONT
3/4" = 1'-0"



8/S6 SECTION AT REAR WALL HI
3/4" = 1'-0"



9/S6 SECTION AT REAR STOREFRONT HI
3/4" = 1'-0"

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
(Phone) (704) 574-8083
(Fax) (704) 442-7290
ghunterecarolina.rr.com
P.O. Box 5210
Matthews, NC 28106

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Florida License No. 56269, Expiration Date: 02-28-2015.

H. EUGENE HUNTER LICENSE No. 56269 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SECTIONS AND DETAILS

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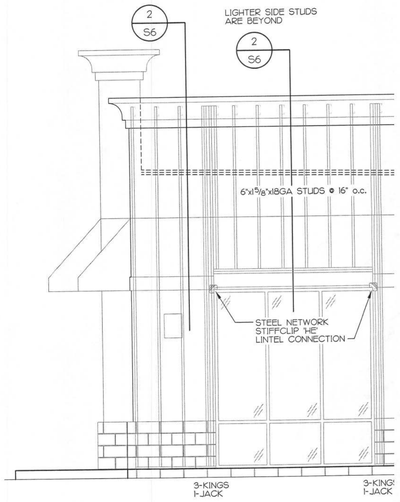
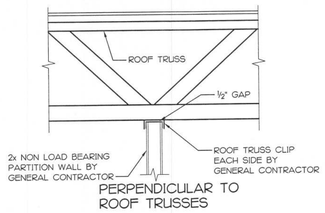


1/S7 PARTIAL ELEVATION

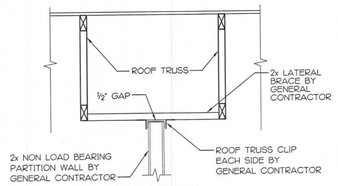
3/4" = 1'-0"

2/S7 NOT USED

3/4" = 1'-0"



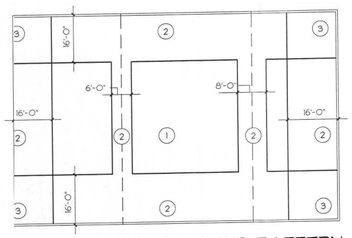
PERPENDICULAR TO ROOF TRUSSES



PARALLEL TO ROOF TRUSSES

3/S7 NON-LOAD BEARING PARTITIONS

3/4" = 1'-0"



DOF SHEATHING NAILING PATTERN

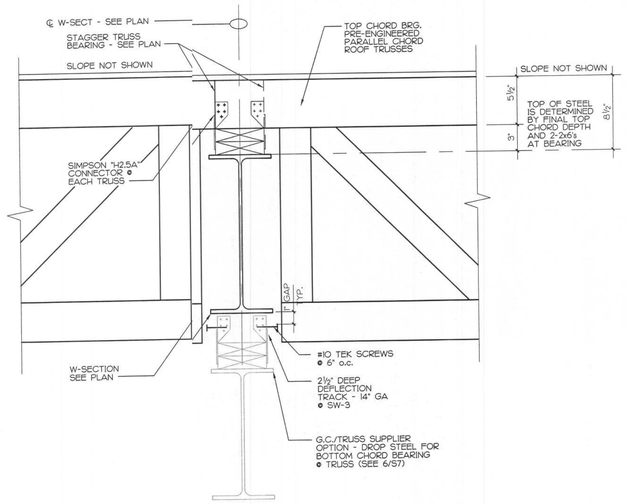
1" TO SCALE

DOF SHEATHING NAILING SCHEDULE

MRK	EDGE NAILING	INTERIOR NAILING	REMARKS
	6" o.c. @ EDGES	10" o.c. @ INTERIOR	
	4" o.c. @ EDGES	6" o.c. @ INTERIOR	
	3" o.c. @ EDGES	5" o.c. @ INTERIOR	w/ 2-2x4 solid blocking @ edges

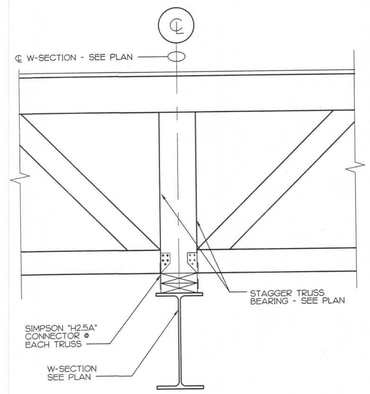
4/S7 ROOF SHEATHING NAILING PATTERN/SCHEDULE

1/4" = 1'-0"



5/S7 SECTION AT ROOF

3/4" = 1'-0"



6/S7 SECTION AT ROOF

3/4" = 1'-0"

H. EUGENE HUNTER, P.E.
Consulting Structural Engineer
P.O. Box 3210
Matthews, NC 28106
(Phone) (704) 574-8083
(Fax) (704) 442-7280
E-Mail
ghunter@carolina.rr.com

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Florida License No. 56599, Expiration Date- 02-28-2015.

H. EUGENE HUNTER STATE OF FLORIDA PROFESSIONAL ENGINEER

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2434 U.S. HWY. 90 WEST
Lake City, FL

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ELEVATION, SECTION AND DETAILS

SHEET NUMBER S7

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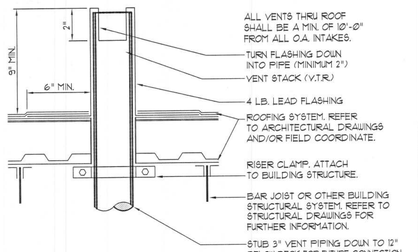
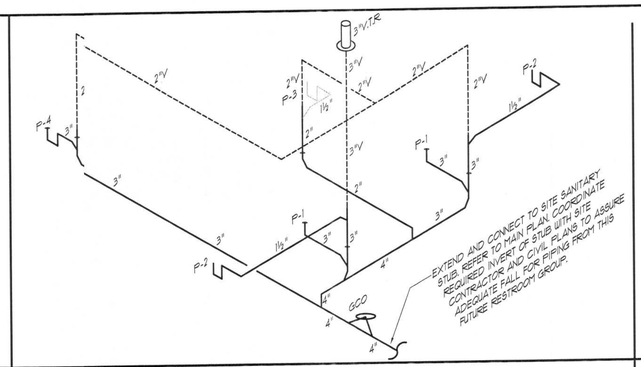
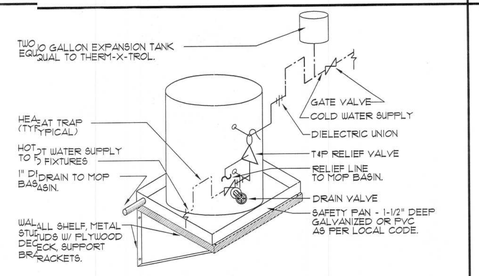


2 VENT THRU ROOF DETAIL

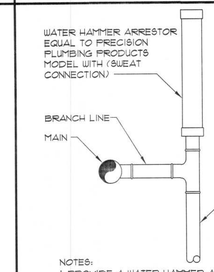


3 SAITARY RISER



- PROVIDE VACUUM RELIEF IN ACCORDANCE WITH CODE.
- PROVIDE THERMOSTATIC MIXING VALVE AT WATER HEATER SET AT 120 DEGREES F. FOR CODE COMPLIANCE ON WATER TEMPERATURE CONTROL.

4 WATER HEATER DETAIL

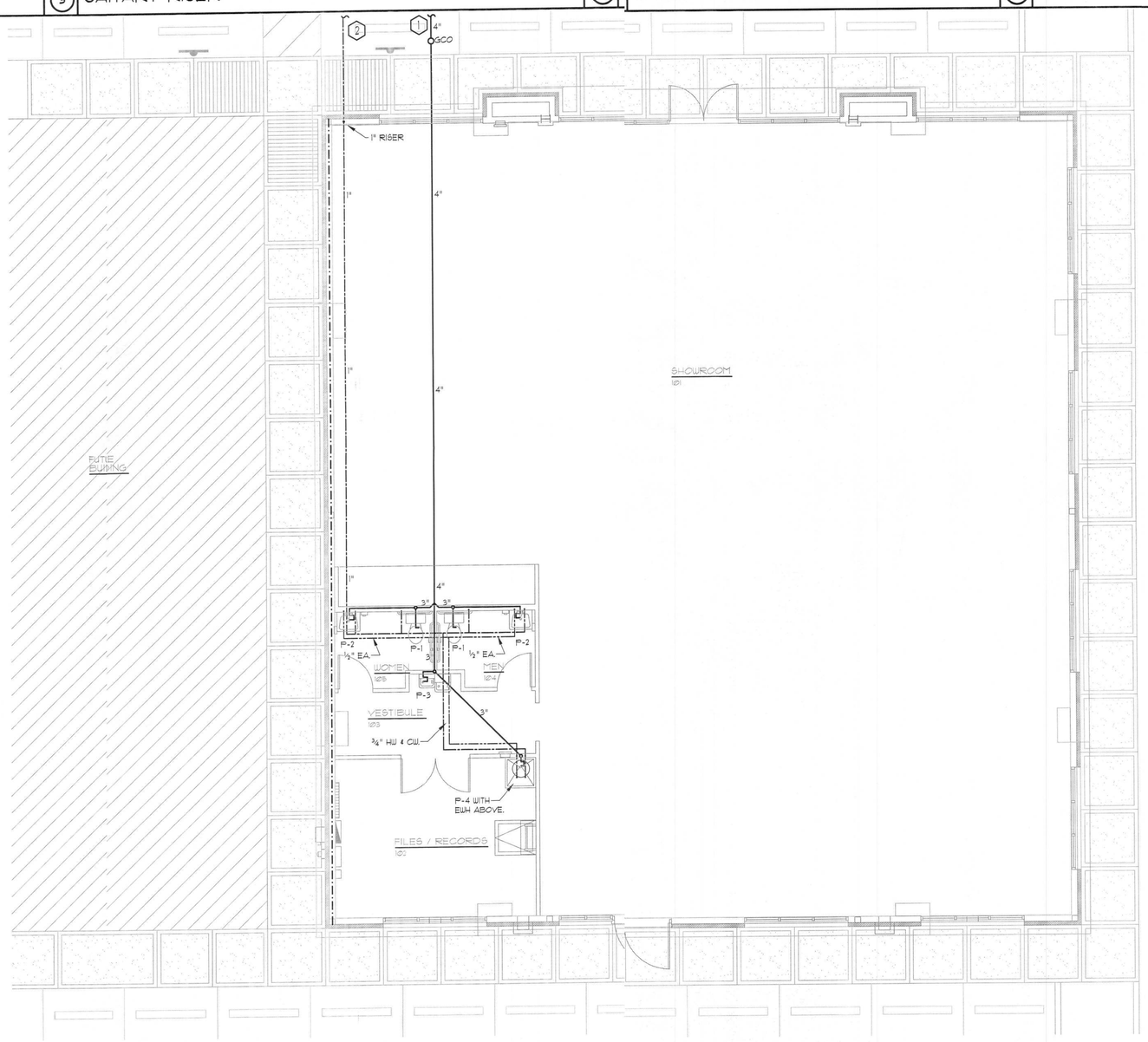


NOTES:
1. PROVIDE A WATER HAMMER ARRESTOR ON EACH HOT WATER AND COLD WATER DROP.
2. ARRESTORS SHOULD ALWAYS BE INSTALLED SO THAT THERE IS AN UNOBSTRUCTED SHOCK PATH TO THE ARRESTOR.
3. ARRESTORS SHOULD ALWAYS BE PLACED AS NEAR TO THE SOURCE OF SHOCK AS POSSIBLE.

PPP SIZING CHART

FIXTURE UNITS	SIZE (SWEAT)	PART NUMBER
1-11	½"	SWA-500
12-32	¾"	SWA-750
33-60	1"	SWA-1000
61-113	1¼"	SWA-1250
114-154	1½"	SWA-1500
155-330	2"	SWA-2000

5 WATER HAMMER ARRESTOR DETAIL



1 PLUMBING PLAN

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

6 PLUMBING LEGEND

COLD WATER
HOT WATER
SANITARY
VENT
FUTURE PIPING

7 PLUMBING GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE CIVIL DRAWINGS AND SITE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK TO VERIFY LOCATIONS OF SANITARY AND DOMESTIC WATER. THE INVERT ELEVATION OF THE SITE SANITARY MUST BE COORDINATED TO ASSURE ADEQUATE FALL FOR INTERIOR SYSTEM.
2. WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS.
3. DOMESTIC WATER PIPING SHALL BE TYPE 'L' COPPER WITH 95/5 SOLDERED FITTINGS. PROVIDE WATER HAMMER ARRESTORS EQUAL TO JAY R. SMITH AT EACH FIXTURE GROUP, IN ACCORDANCE WITH CODE. CPVC WATER PIPING MAY BE USED IF APPROVED BY GOVERNING AUTHORITY.
4. SLOPE WASTE LINES 3" AND LARGER AT ⅛"PER FOOT. LINES SMALLER THAN 3" SHALL BE SLOPED AT ¼" PER FOOT.
5. INSULATE ALL DOMESTIC HOT WATER PIPING WITH 1" WALL ARMAFLEX OR EQUIVALENT INSULATION.
6. PROVIDE ISOLATION VALVES AT ALL FIXTURES. FIXTURES SHALL BE CHROME FINISH EQUAL TO BRASSCRAFT.
7. INSTALLATION OF ALL PLUMBING FIXTURES, PIPING, COMPONENTS AND PERIPHERALS SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, STANDARDS AND ORDINANCES.
8. ALL SLAB CUTTING AND CONCRETE FILL SHALL BE BY THE GENERAL CONTRACTOR UNLESS CLARIFIED OTHERWISE PRIOR TO BID.
9. TESTING OF THE PLUMBING SYSTEMS SHALL BE PERFORMED BY THE PLUMBING SUBCONTRACTOR AND WITNESSED BY THE BUILDING DEPARTMENT INSPECTOR. POTABLE HOT AND COLD WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT 125 PSIG FOR 24 HOURS. SOIL, WASTE AND VENT PIPING SHALL BE FILLED WITH WATER TO THE TOP OF THE SYSTEM FOR A PERIOD OF 24 HOURS.
10. CLEAN OUTS SHALL BE PROVIDED PER PLAN AND/OR AS REQUIRED TO PROVIDE A COMPLETE SERVICEABLE SYSTEM. CLEANOUTS SHALL BE SAME SIZE AS PIPE. FLOOR CLEANOUTS SHALL BE EQUAL TO ZURN Z-1400-KC WITH BRONZE TOP. WALL CLEANOUTS SHALL BE EQUAL TO ZURN Z-1411-KC WITH STAINLESS STEEL COVER.

8 PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE	W	V	CW	HW	DESCRIPTIONS
P-1	WATER CLOSET HANDICAPPED	3"	2"	½"	-	BRIGGS 4234-130 WHITE ELONGATED HANDICAPPED 16 GALLON FLUSH WATER CLOSET OLSONITE #35 WHITE SEAT, CP STOP AND SUPPLY
P-2	HANDICAPPED LAVATORY	1½"	2"	½"	½"	BRIGGS "WHITMAN" 6615 WALL HUNG LAV WITH DELTA 523LF-HDF SINGLE LEVER FAUCET 20 GAUGE CP P-TRAP LESS CLEANOUT CR1812-A CP STOPS AND SUPPLIES
P-3	ELECTRIC WATER COOLER DUAL-LEVEL	1½"	2"	½"	-	ELKAY EZS7L-BC COOLER STANDARD COLOR, 1¼" 20 GAUGE CP P-TRAP LESS CO, STOP AND SUPPLY, MOUNT LOWER NOZZLE AT HC. HEIGHT
P-4	MOP BASIN	3"	2"	½"	½"	FIAT MSB-2424 MOP BASIN WITH 830-AA SERVICE FAUCET W/ BRACKET & HANGER, 1838B STAINLESS STEEL STRAINER, VAC BREAKER & HOSE THREADED SPOUT
EWH	ELECTRIC WATER HEATER	-	-	¾"	¾"	A.O. SMITH DEL-20, 20 GALLON WATER HEATER, 1.5 KW @ 120 VOLT, 1 PHASE UL LISTED AND ASHRAE 90-A APPROVED

KEYED NOTES:

1. 4" SANITARY MAIN FROM SITE CONSTRUCTION AND PER CIVIL DRAWINGS. VERIFY PRIOR TO BID. EXTEND NEW WASTE PIPING TO CONNECTION POINT. CALCULATE AND COORDINATE REQUIRED INVERT FOR INTERIOR PLUMBING SYSTEM AS INDICATED ON PLAN. VERIFY REQUIREMENTS WITH SITE CONTRACTOR PRIOR TO INSTALLATION.
2. ¾" DOMESTIC WATER SERVICE FROM SITE TO RISER AS INDICATED. REFER TO CIVIL DRAWINGS AND COORDINATE WITH SITE CONTRACTOR PRIOR TO START OF WORK.

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002021
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor FL 34684
Phone 727 . 781 . 7505 • Fax 727 . 781 . 6023
• www.oliveriarchitects.com •

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MDCI FLORIDA, INC.
405 2nd Street South - Suite B
Safety Harbor, FL 34695
Engineering Business No. 9204
Ph. 727.698.0388 Fax. 727.797.8223
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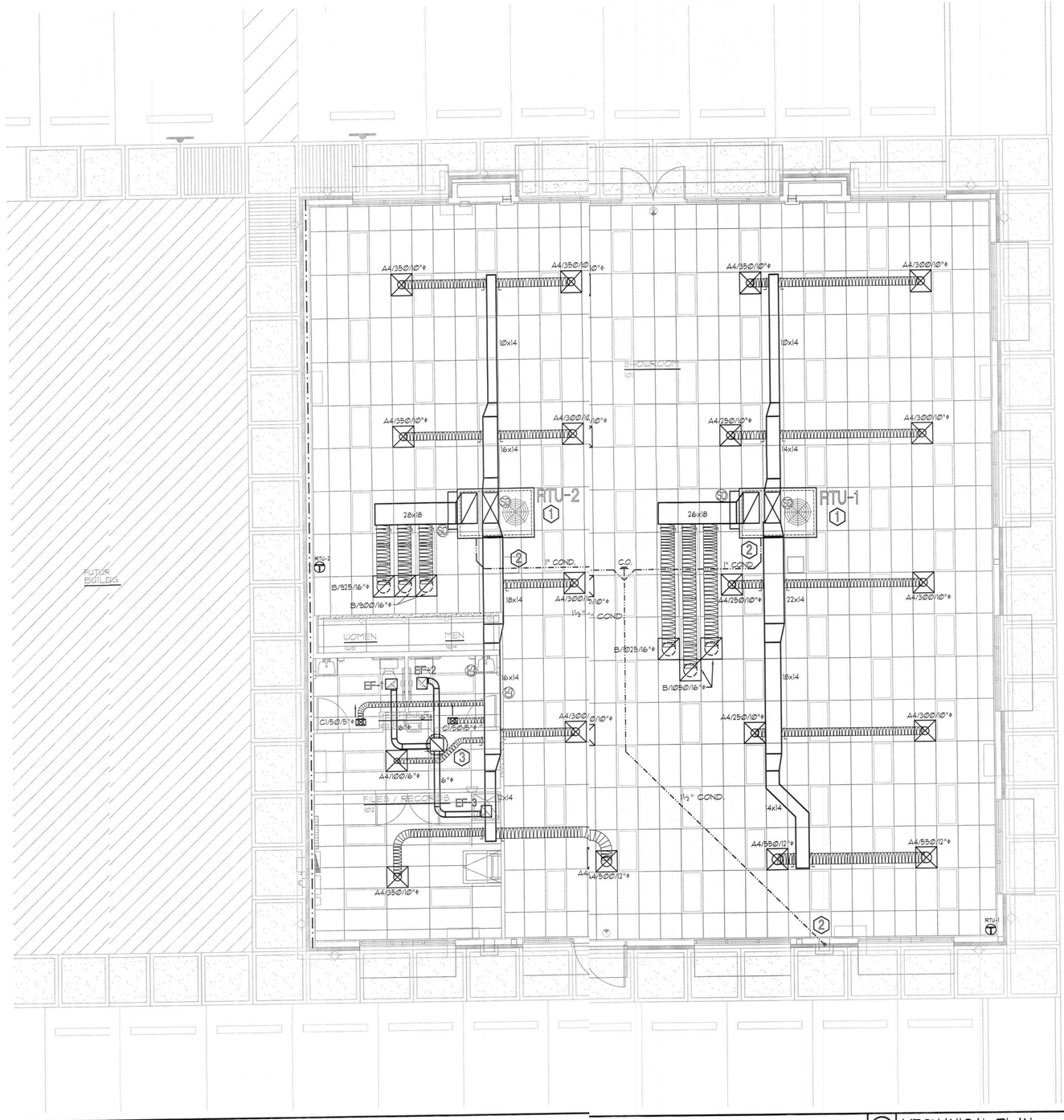
New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: TAF
Job: 13-227
Sheet
P1



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

KEYED NOTES:

1. NEW PACKAGED ROOF TOP AIR CONDITIONER. COORDINATE WITH THE ARCHITECTURAL ROOF PLAN, STRUCTURAL DRAWINGS AND THE GENERAL CONTRACTOR PRIOR TO ORDER OF TRUSSES AND UNITS.
2. 1" SCHEDULE 40 PVC CONDENSATE DRAIN LINES FROM UNIT. SUPPORT PIPING PER DETAIL. MANIFOLD AS INDICATED AND EXTEND TO DOWNSPOUT AS SHOWN. VERIFY TERMINATION OF DOWNSPOUT AND IF IT DOES NOT DRAIN TO STORM SEWER, LANDSCAPING OR OTHER PERVIOUS GRADE PROVIDE DRYWELL.
3. PROVIDE NEW MODEL PR SIZE 8 EXHAUST VENTILATOR WITH 10x10 SHEET METAL PLENUM EXTENDED DOWN FOR CONNECTION OF EXHAUST DUCTS. REFER TO DETAIL ON M2.

OUTSIDE AIR CALCULATION:

(PER TABLE 6-1, ASHRAE 62, 2007)

RETAIL SALES FLOOR OCCUPANCY: .

NET OCCUPIABLE SPACE = 3687 SQ. FT.
TOTAL PERSONS X 7.5 + .12 x NET SQ. FT. = REQ'D CFM.

3687 X .12 = 442.44 CFM
ACTUAL PEOPLE COUNT:
STAFF: 2 PERSONS
CUSTOMERS: 12 PERSONS

TOTAL PERSONS X 7.5 + .12 x NET SQ. FT. = REQ'D CFM.
(14 X 7.5) + (.12 x 3687) = 547.44 CFM REQUIRED.

OUTSIDE AIR PROVIDED:
RTU-1 - 275 CFM
RTU-2 - 275 CFM

TOTAL: 550 CFM - IN COMPLIANCE.

NOTE: THE PEOPLE COUNT IS BASED ON ACTUAL MAXIMUM PEOPLE LOADS ACCOUNTED FOR BY MATTRESS FIRM DURING PEAK BUSINESS HOURS.

HVAC GENERAL NOTES

1. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. VERIFY ALL DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION OR INSTALLATION. ALL NEW DUCTWORK SHALL BE TYPE 800 FIBERGLASS EQUAL TO OWENS-CORNING, 1½" THICK WITH AN 'R'-VALUE OF 6.0. COORDINATE DUCTS WITH STRUCTURE PRIOR TO INSTALLATION. ALL DUCT SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA REQUIREMENTS.
2. ALL FLEXIBLE DUCT CONNECTIONS SHALL BE CLASS ONE TYPE. PROVIDE TAB COLLARS AT MAIN DUCT WITH MANUAL VOLUME DAMPER WITH LOCKING QUADRANT.
3. AN IONIZATION PRINCIPLE SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY AND RETURN DUCTWORK OF RTU-1 AND RTU-3. THE DETECTOR SHALL BE WIRED TO APPLICABLE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR. PROVIDE L.E.D. AND HORN ALARM STATIONS (DUCT SMOKE DETECTOR'S REMOTE TEST SWITCH) LOCATED IN NORMALLY OCCUPIED AREA MOUNTED AT 48" AFF.
4. ALL ROOF AND WALL PENETRATIONS SHALL BE SEALED BY THE GENERAL CONTRACTOR.
5. COORDINATE WITH THE GENERAL CONTRACTOR, STEEL CONTRACTOR AND STRUCTURAL DRAWINGS PRIOR TO ORDER OF ANY ROOF EQUIPMENT.
6. DEVIATION FROM MATERIALS, METHODS, OR PROCEDURES SET FORTH HEREIN MUST BE APPROVED, IN WRITING, BY ENGINEER PRIOR TO SUBMISSION OF BID, ORDER, FABRICATION OR INSTALLATION.
7. 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 SUBMISSION OF A BID. LACK OF KNOWLEDGE OR UNDERSTANDING OF THE PLANS SHALL NOT JUSTIFY ANY CLAIMS OR ADDITIONAL COMPENSATION.
8. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES.
9. THE HVAC CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, DUCT, PIPING, LOUVERS, DIFFUSERS, ETC. INCLUDING LOCATIONS AND CLEARANCES, WITH ALL OTHER TRADES ON PROJECT IN PRE-CONSTRUCTION MEETING, PRIOR TO ANY ORDER, FABRICATION OR INSTALLATION.
10. THERMOSTATS SHALL BE MANUFACTURER 7-DAY PROGRAMMABLE WITH TWO STAGE COOLING. MOUNT AS INDICATED AT 5'-6" AFF.
11. SUPPLY DUCTWORK SHALL BE CONSTRUCTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" POSITIVE PRESSURE CLASSIFICATION.
12. RETURN AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" NEGATIVE STATIC PRESSURE.
13. ALL EXHAUST FAN DISCHARGES AND PLUMBING VENTS SHALL BE A MINIMUM OF 10'-0" FROM FRESH-AIR INTAKES. COORDINATE WITH PLUMBING PLANS PRIOR TO INSTALLATION.
14. THE MECHANICAL CONTRACTOR SHALL BALANCE ALL SYSTEMS TO WITHIN TEN PERCENT OF DESIGN VALUES SPECIFIED HEREIN.
15. EXTEND CONDENSATE DRAIN LINES FROM RTU'S TO ROOF DRAINS AND/OR DOWNSPOUTS. REFER TO DETAILS ON SHEET M2 AND KEYED NOTES THIS SHEET.

PLAN NOTES:

1. AIR CONDITIONING EQUIPMENT IS NEW TO BE INSTALLED ON STRUCTURE. INSTALL AS INDICATED AND COORDINATE WITH GENERAL CONTRACTOR AND APPLICABLE STRUCTURAL DRAWINGS PRIOR TO ORDER OF EQUIPMENT. PROVIDE NEW SMOKE DETECTOR L.E.D. AND HORN ALARM STATIONS WITHIN SPACE IN ACCORDANCE WITH CODE. COORDINATE DUCT WITH STRUCTURE PRIOR TO FABRICATION AND INSTALLATION.

BUILDING AIR BALANCE SCHEDULE

POSITIVE SOURCES:		NEGATIVE SOURCES:	
RTU-1	275 CFM	EF-1	75 CFM
RTU-2	275 CFM	EF-2	75 CFM
		EF-3	100 CFM
		EXFILTRATION:	200 CFM
TOTAL:	700 CFM	TOTAL:	450 CFM

RESULTING TOTAL AIR BALANCE: 100 CFM (POS.)

HVAC LEGEND

- CEILING SUPPLY DIFFUSER
- CEILING RETURN
- CEILING EXHAUST FAN
- LIGHTSTAT SENSOR (S)
- SMOKE DETECTOR (SD)
- VOLUME DAMPER
- NEW RIGID DUCT
- CLASS 1 FLEXIBLE DUCT

REVISIONS	BY

OLIVERI ARCHITECTS
A.A. 0002821
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727. 781. 7525 • Fax 727. 781. 6623
• www.oliveriarchitects.com •

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DARLING PATTERSON
LICENSED
PE 14178
01-28-14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MDCI FLORIDA, INC.
405 2nd Street South • Suite B
Safety Harbor, Florida 34695
Email: mdci@tampabay.rr.com
Ph. 727.698.0398 Fax 727.797.8225

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New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

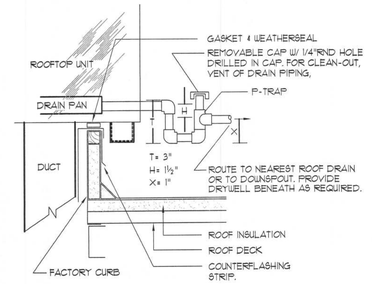
Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: TAF
Job: 13-227

Sheet
M1

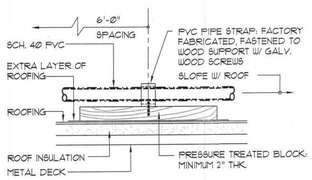
ROOF TOP UNIT:		RTU-1	RTU-2
MANUFACTURER	-	TRANE	TRANE
MODEL	-	T6CI060F3EEA	T6CD036F3EEA
SUPPLY	CFM	3400	3000
OUTSIDE AIR	CFM	275	275
ENTERING AIR	DB/WB	78/67	78/67
LEAVING AIR	DB/WB	56.3/55.6	56.3/55.6
CAPACITY	TONS	8.5	7.5
TOTAL COOLING	MBH	101,000	84,000
SENSIBLE COOLING	MBH	77,000	70,900
EXT. S.P.	IN. H2O	.65"	.65"
TOTAL S.P.	IN. H2O	1.2"	1.2"
ELECTRIC HEAT	KW/V.	20.3/208V. 3P.	13.5/208V. 3P.
EVAPORATOR FAN	HP/FLA	2.0 - 6.2	1.0 - 3.6
COMPRESSOR	NO./RLA	2 - 15.9/13.1	2 - 14.5/13.6
CONDENSING FAN	NO./FLA	1 - 4.0	1 - 4.0
ELECTRICAL DATA	V/Ø	208/230V. 3P.	208/230V. 3P.
MCA	AMPS	78.3	54.8
FUSE/MOCP	-	90	60
EFFICIENCY	SEER/EER	11.7	11.7
WEIGHT	LBS.	1015	850
NOTES	PER BELOW	1-7	1-7

NOTES: 1. HVAC CONTRACTOR SHALL COORDINATE ELECTRICAL DATA WITH ELECTRICAL CONTRACTOR PRIOR TO ORDER OF EQUIPMENT.
2. UNIT SHALL HAVE A SINGLE POINT ELECTRICAL CONNECTION.
3. PROVIDE MANUFACTURER STANDARD 14" HIGH CURB.
4. PERMANENTLY LABEL ALL SYSTEMS WITH THE RTU DESIGNATION.
5. PROVIDE FACTORY Ø-25% OUTSIDE AIR DAMPER.
6. INSTALL FILTERS IN UNIT PRIOR TO START UP AND PROVIDE NEW SET OF FILTERS AT COMPLETION OF CONSTRUCTION.
7. PROVIDE FACTORY UNLOADERS.

6 ROOF-TOP UNIT SCHEDULE
SCALE: NONE



7 RTU CONDENSATE DETAIL
SCALE: NONE



8 ROOF CONDENSATE DETAIL
SCALE: NONE

MARK	MANUFACTURER	MODEL NUMBER	SIZE	CFM	NECK	LOCATION	MATERIAL	NOTES:
A	TITUS	TMS	24 X 24	SEE PLAN	SEE PLAN	CEILING	STEEL	1,2
B	TITUS	350FL	24 X 24	SEE PLAN	24 X 24	CEILING	STEEL	1,2,3
C	TITUS	250	Ø X 6	SEE PLAN	Ø X 6	CEILING	STEEL	1,2,4,5

- ALTERNATE EQUIVALENT MANUFACTURERS ACCEPTED.

A4/400/10"RND
SIZE THROW CFM NECK/FLEX CONNECTION SIZE

NOTES:
1. PROVIDE MANUAL VOLUME DAMPER AT MAIN TRUNK FOR BALANCING.
2. DIFFUSER FINISH SHALL BE OFF-WHITE.
3. PATTERN SHALL BE 35 DEGREE FIXED BLADE, ¾" SPACING.
4. PROVIDE PRE-FAB R-6 INSULATED GRILLE BOX WITH TAB COLLAR.
5. GRILLE FACE SHALL BE ADJUSTABLE CURVED BLADE. NO STAMPED GRILLES ACCEPTED.

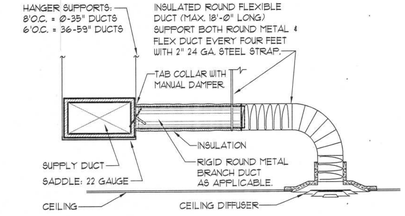
1 AIR DISTRIBUTION SCHEDULE
SCALE: NONE

MARK	MANUFACTURER	MODEL	AREA	TYPE	CFM	R.P.M.	BONES	S.P.	WATTS	VOLTS	PHASE	NOTES
EF-1,2	COOK-GEMINI	GC-12.0	RESTROM	CEILING EXHAUST	715	1200	1.7	.125	335	120V.	1PH.	1-4
EF-3	COOK-GEMINI	GC-14.0	FILES/REC	CEILING EXHAUST	1200	1520	2.4	.25	760	120V.	1PH.	1-4

- ALTERNATE EQUIVALENT MANUFACTURERS ACCEPTED.

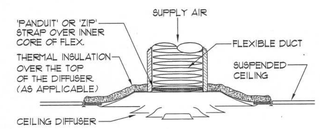
NOTES:
1. PROVIDE BACKDRAFT DAMPER.
2. FACTORY PLUG DISCONNECT.
3. EXTEND TO DISCHARGE POINT AS SHOWN ON M1.
4. FAN SHALL BE CONTROLLED BY ROOM LIGHT SWITCH.

2 FAN SCHEDULE
SCALE: NONE



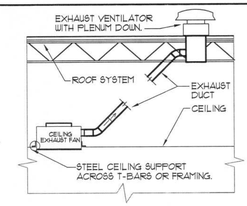
- HANGER SUPPORTS SHALL BE AS NOTED ABOVE FOR DUCT WIDTHS UP TO 24" AND WITH TRAPEZE HANGERS FOR DUCTS 25" AND ABOVE.

3 CEILING DIFFUSER RUN-OUT DETAIL
SCALE: NONE



NOTES:
- TAPE INNER COIL OF FLEX TO THE DIFFUSER COLLAR. TAPE COMPLETELY AROUND TO ASSURE AN AIR TIGHT SEAL OR USE 'ZIP' STRAP AROUND INNER CORE OF FLEX. USE METAL BAND CLAMP WHERE REQUIRED BY LOCAL AUTHORITY.
- PULL FLEX INSULATION AND OUTER COVER DOWN OVER GRILLE COLLAR AND SECURE TO GRILLE WITH TAPE ONLY. DO NOT USE STRAP OR OTHER METHOD WHICH WILL COMPRESS INSULATION.
- STRETCH FLEX TIGHT BETWEEN DUCT AND DIFFUSER TO AVOID KINKS. SUPPORT EVERY FOUR FEET WITH 2" STEEL STRAP OR OTHER APPROVED HANGER.

4 CEILING DIFFUSER DETAIL
SCALE: NONE



NOTES:
- COORDINATE VENTILATOR CURB OR CURB ADAPTER INSTALLATION WITH GENERAL CONTRACTOR PRIOR TO ORDER.
- INSTALL EXHAUST DUCT WITHIN JOISTS AND/OR ABOVE SUPPLY AND RETURN DUCTWORK. COORDINATE DUCT ELEVATIONS PRIOR TO FABRICATION OR INSTALLATION.

5 CEILING EXHAUST FAN DETAIL
SCALE: NONE

REVISIONS	BY

OLIVERI ARCHITECTS
AA.0002021
Member of the American Institute of Architects
3200 Ulmerton Road, Clearwater, Florida 33762-3964
Phone 727 . 781 . 7325 • Fax 727 . 781 . 6623
• www.oliverarchitects.com •

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DANIEL PATTERSON
LICENSE
PE 14175
12-28-14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MDI FLORIDA, INC.
405 2nd Street South - Suite B
Safety Harbor, Florida 34695
Florida Certificate No. 30004
Ph. 727.698.0398 Fax 727.797.8225

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New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: TAF
Job: 13-227
Sheet
M2

1.0 GENERAL:

1.1 ALL APPLICABLE CODES, LAWS AND REGULATIOI GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HERBY INCORPORATED INTO AND MADE A PART OF THESEPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BTHE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTII A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF E ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CCRACTOR.

1.2 INVESTIGATE EACH SPACE THROUGH WHICH EQUIIENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE IPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOROVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROBUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MABE MOVED THROUGH ALL AREAS.

1.3 DRAWINGS ARE DIAGRAMMATIC AND INDICATE GERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT RGING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFTS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN S PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COODINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRDES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.

1.4 INSTALL WORK SO AS TO BE READILY ACCESSIE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVTIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUAPPROVAL.

1.5 REMOVAL AND RELOCATION OF CERTAIN EXISTII WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENER WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE S: AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WO PROPOSAL.

1.6 CONNECTIONS TO EXISTING WORK: INSTALL NEW RK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERICE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SEVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMENOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES A ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGEN SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERAON OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTOREXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDI MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

1.7 DISCONNECT, REMOVE AND/OR RELOCATE EXISTG MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRD FOR PROPER INSTALLATION OF NEW WORK.

1.8 THE CONTRACTOR SHALL KEEP ALL EQUIPMENT ND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPAC AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM TERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATEITHER ON THE INTERIOR OR THE EXTERIOR.

1.9 SEAL OPENINGS THROUGH PARTITIONS, WALLS AI FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERL.

1.10 PROVIDE ALL NECESSARY FLASHING AND COUERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE B.DING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF ONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRD.

1.11 ALL EXISTING MATERIAL, EQUIPMENT AND CONSTICTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOI THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON TI DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOD OF BY THIS CONTRACTOR.

1.12 UNLESS OTHERWISE SPECIFICALLY NOTED OR SFCIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, LLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING.IE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDIDN.

1.13 ALL MATERIAL AND EQUIPMENT SHALL BE NEW LESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDG STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANDISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FID CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATN HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LADR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENDUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXANATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDI (SIZES, CLEARANCES, ETC) AND CONDITIONS.

1.14 INSURANCE: IN ACCORDANCE WITH BUILDING REUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OLER AND ENGINEER.

1.15 THE FINAL ACCEPTANCE SHALL BE MADE AFTEHE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUSYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTOF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHEALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPRVAL.

2.0 SCOPE OF WORK:

2.1 SCOPE OF WORK SHALL CONSIST OF PROVIDINGABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR CMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIOL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRNATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTN, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

2.2 THE DRAWINGS AND THE SPECIFICATIONS SHALBE CONSIDERED ADDITIONAL TO ARCHITECT AND MECHANICAL ENGIER'S SPECIFICATIONS. ANY DISCREPANCY OR CONTRADICON SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

2.3 ARCHITECT'S GENERAL REQUIREMENTS ARE PA OF THIS CONTRACT AND THEY SHALL BE APPLIED BY THE INERAL CONTRACTOR AND SUBCONTRACTORS (ELECTRICALC..).

2.4 ALL ELECTRICAL WORK TO BE DONE IN ACCORANCE WITH THE NATIONAL ELECTRICAL (NEC) CODE.

2.5 GENERAL CONTRACTOR SHALL VISIT THE JOB E IN ORDER TO FAMILIARIZE HIMSELF WITH CONDITIONS THAT CAN AFCT HIS WORK IN ANY MANNER. (MEASUREMENTS - PARTICULAR CONDONS, ETC...) NO EXTRA COST DUE TO THE IGNORANCE OF LOCAL COITIONS WILL BE ACCEPTED BY THE TENANT.

2.6 GENERAL CONTRACTOR SHALL MAKE ALL NECISARY CHECKING AND ADJUSTMENTS TO COMPLY WITH THE INTENT OF ECIFICATIONS.

2.7 THE DRAWINGS SHOW THE APPROXIMATE LOCAN OF THE EQUIPMENT. EACH SUBCONTRACTOR SHALL VERIFY ESE LOCATIONS BEFORE INSTALLATION.

2.8 GENERAL CONTRACTOR'S TENDER SHALL INCLLE THE COST OF ALL NECESSARY PERMITS AND CERTIFICATES, ALL DRAWINGS APPROVAL COSTS AND ALL INSPECTION COSTS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.

2.9 EACH SUBCONTRACTOR SHALL COMPLETE THE WORK IN EVERY DETAIL. EVEN THOUGH NOT SHOWN ON DRAWINGS OR CALLED FOR IN THIS SPECIFICATION.

2.10 THE ELECTRICAL TRADE PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. THE TRADE SHALL ALSO PROVIDE WHICH IS OBVIOUSLY NECESSARY OR REASONABLY IMPLIED TO COMPLETE THE WORK.

2.11 ALL RUBBISH'S AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AT THE END OF EVERY WORKDAY. AT THE CONTRACT COMPLETION, ALL TOOLS AND EQUIPMENT SHALL BE REMOVED AND THE JOB SITE SHALL BE LEFT IN A CLEAN CONDITION.

3.0 GUARANTEE:

3.1 EACH SUBCONTRACTOR SHALL GUARANTEE HIS WORK AND INSTALLATION REGARDING HIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS OWN EXPENSE, ALL DEFECTS AND THIS DURING A TWELVE MONTHS PERIOD, STARTING AT THE PROVISIONAL ACCEPTANCE BY THE TENANT. AS LONG AS THE DEFECTS IS NOT DUE TO A BAD USE OR NORMAL WEAR.

4.0 GENERAL PROVISIONS FOR ELECTRICAL WORK:

4.1 SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

4.2 DEFINITIONS:

1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

3) "FURNISH" OR "SUPPLY: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND THEIR ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

4.2 DEFINITIONS CONTINUED:

5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.

6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.

7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.

8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

5.0 TEMPORARY LIGHT AND POWER:

5.1 PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS HEREIN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS.

6.0 QUALITY ASSURANCE:

6.1 QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.

6.2 GUARANTEE ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 3.0.

6.3 PRODUCT DELIVERY, STORAGE AND HANDLING

1) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.

2) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

6.4 MATERIALS

1) NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 3/4 IN. WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.

2) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.

7.0 PAINT AND FINISH:

7.1 PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES, AFTER FABRICATION. UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR: OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.

7.2 BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED: CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.

7.3 FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

7.4 ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

8.0 LOW-VOLTAGE DISTRIBUTION EQUIPMENT:

8.1 PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES, FUSES, CIRCUIT BREAKERS, PANELS AND TRANSFORMERS.

8.2 ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE STANDARDS.

8.3 DISCONNECT SWITCHES SHALL BE FUSED OR NONFUSED AS NOTED. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, EXCEPT AS NOTED, AND HORSEPOWER RATED FOR MOTOR LOADS. TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, HAVING MAXIMUM RATINGS OF 20 AMP AT 600 VOLTS AND 30 AMP AT 240 VOLTS. KNIFE-BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK- BREAK, UL CLASS R UP TO 600 AMP. MAXIMUM RATING EXCEPT AS NOTED SHALL BE 800 AMP. ARC QUENCHERS SHALL BE PROVIDED. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRIC QMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

8.4 FUSES:

1) CIRCUIT 601 TO 6000 AMPERES SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KRP-C (AMP)SP, CLASS L LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL.

2) CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMAN LOW-PEAK DUAL-ELEMENT TIME-DELAY LPN-RK (AMP)SP (250V) /LPS-RK (AMP)SP (600V) OR LPJ (AMP)SP (600V) (UL CLASS RK1 OR CLASS J), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL.

3) MOTOR CIRCUITS - ALL INDIVIDUAL MOTOR CIRCUITS WITH FULL LOAD AMPERE RATINGS (FLA) OF 480 AMPERES OR LESS SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT TIME-DELAY LPN-RK (AMP)SP (250V) /LPS-RK (AMP)SP (600V) OR LPJ (AMP)SP (600V) (UL CLASS RK1 OR CLASS J), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL.

4) ALL FUSES SHALL BE PROVIDED BY SAME MANUFACTURER.

5) PROVIDE 1 SPACE MATCHING FUSE FOR EACH SET OF 3.

8.5 CIRCUIT BREAKERS: MOLDED CASE BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE-QUICK-BREAK, BOLT-ON TYPE, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPE BREAKERS SHALL CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. FURNISH AUXILIARY DEVICES WHERE REQUIRED FOR SHUNT-TRIPPING, OPEN AND CLOSE MOTOR OPERATOR AND ALARM INDICATION. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

8.6 DISTRIBUTION PANELS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT-BREAKER TYPE UNLESS OTHERWISE NOTED ON PANEL SCHEDULES. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98 PERCENT CONDUCTIVITY, SILVER OR TIN-PLATED JOINTS. CABINETS SHALL BE GALVANIZED SHEET STEEL BACK BOX, WITH DOOR AND TRIM AND LAPPED AND WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/LATCH HANDLE ASSEMBLY (UP TO 48 IN. HIGH DOORS) OR VAULT HANDLE, LOCK AND 3-POINT CATCH (LARGER THAN 48 IN. HIGH DOORS). HINGES SHALL BE SEMI-CONCEALED, 5-KNUCKLE STEEL WITH NONFERROUS PINS, 180-DEG OPENING, LOCATED A MAXIMUM 26 IN. ON CENTERS. MINIMUM GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5-3/4 IN. SIDES, TOP AND BOTTOM. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC, TRANSPARENT COVER. A TYPEWRITTEN LIST INDICATING FEEDER CABLE AND CONDUIT SIZE, CIRCUIT NUMBERS, OUTLETS SUPPLIED AND THEIR LOCATIONS SHALL BE PROVIDED.

8.7 TRANSFORMERS SHALL BE OPEN-VENTILATED, DRY TYPE, CLASS H INSULATION, 115 DEGREE C TEMPERATURE RISE. WINDINGS SHALL BE COPPER. PRIMARY AND SECONDARY VOLTAGES SHALL BE AS NOTED. PRIMARY TAPS (6-2 1/2% TAPS, 2 ABOVE AND 4 BELOW RATED VOLTAGE) SHALL BE PROVIDED. ADJUST FOR REQUIRED VOLTAGE.

8.8 BALANCE THE LOAD OVER PHASES WHEN NEW CIRCUITS ARE ADDED TO NEW OR EXISTING PANELS. PROVIDE MULTI-CABLE LUGS WHERE REQUIRED. DOUBLE LUGGING SHALL NOT BE PERMITTED. MOUNTING HEIGHT SHALL BE A MAXIMUM OF 6 FT-6 IN. FROM FLOOR TO TOP SWITCH UNIT. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING IS CHANGED.

8.9 TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

9.0. RACEWAYS:

9.1 PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 1/2 IN.

9.2 MATERIALS

1) RACEWAYS:
a. RIGID STEEL CONDUIT: FULL-WEIGHT PIPE, GALVANIZED, THREADED.
b. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.
c. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.
d. WIREWAYS: WIRE SHALL BE AS NOTED, MINIMUM NO. 16 GAUGE STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.
e. SURFACE METAL RACEWAY: SIZE AS NOTED. BASE 0.04 IN., COVER 0.025 IN. MATERIAL SHALL BE STEEL. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.
f. MC CABLE IS ACCEPTABLE IN CONCEALED LOCATIONS AND WHERE NOT SUBJECT TO DAMAGE. MINIMUM SIZE #12

2) FITTINGS AND ACCESSORIES:
a. RIGID STEEL: NONSPLIT, THREADED, STEEL OR MALLEABLE IRON.ZINC DIE CAST NOT PERMITTED.
b. ELECTROMETALLIC TUBING: COMPRESSION OR SET SCREW TYPE. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.
c. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.
d. BUSHINGS: METALLIC INSULATED TYPE.

3) BOXES:
a. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES. BOXES ABOVE CEILING SHALL BE 1-1/2 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 2-3/4 IN. DEEP. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1-1/2 IN. DEEP. FURNISH WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. WITHOUT FIXTURE OR DEVICE: FURNISH BLANK COVER. OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6 IN. SEPARATION.
b. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE. PROVIDE BARRIERS IN NEW AND RENOVATED BOXES BETWEEN 120/208 VOLT AND 265/460 VOLT WIRING AND BETWEEN EMERGENCY AND NORMAL WIRING. FLOOR BOXES SHALL BE SUITABLE FOR CONDUIT AND DEVICES NOTED. TELEPHONE: BUSHED HOLE. POWER: DUPLEX RECEPTACLE OR OTHER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY

c. PROVIDE RACEWAYS ONLY AS HEREIN SPECIFIED, EXCEPT AS NOTED. RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED. PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAP HANGERS, OR WALL BRACKETS. PROVIDE U-BOLTS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS. PROVIDE RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND RESTING ON SLAB. FOR THROUGH-THE-FLOOR SYSTEMS, UTILIZE AN ASSEMBLY SIMILAR TO HUBBELL FIRE RATED POKE-THROUGH-FLOOR BOX SYSTEM. FOR ABOVE FLOOR FITTINGS TELEPHONE SHALL BE BUSHED HOLE AND POWER SHALL BE DUPLEX RECEPTACLE OR OTHER AS NOTED. PROVIDE SEPARATION BARRIER BETWEEN POWER AND TELEPHONE COMPARTMENTS. PROVIDE JUNCTION BOX ON UNDERSIDE OF FLOOR. PACK FITTING TO RESTORE FIRE RATING OF FLOOR.

SECURE ALL RACEWAYS TO SUPPORTS WITH PIPE STRAPS OR U-BOLTS SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. SPACING SHALL BE 5 FT ON CENTER FOR WIREWAYS AND PER CODE AND AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK, MACHINE SCREWS ON METAL, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD, AND PAN THROUGH STRAPS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.

EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDE CLEARANCE WITH WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SSEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS). FOR HUNG CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND POURED CONCRETE, RUN VERTICALLY ONLY.

MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.

EMPTY RACEWAYS OVER 10 FT LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

RIGID STEEL CONDUIT SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. PAINT MALE THREADS OF FIELD-THREADED CONDUIT WITH GRAPHITE-BASE PIPE COMPOUND AND BUTT CONDUIT ENDS. TOUCH UP MARRED SURFACES AND FIELD-CUT THREADS, CRC-COLD GALVANIZED.

EMT AND MC CABLE SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY, IN DRY LOCATIONS DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. EMT SHALL NOT BE PERMITTED IN RAISED FLOORS.

FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE: PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMER AND OTHER VIBRATING EQUIPMENT: PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18 IN. WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS.

CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

ALL COUPLINGS SHALL BE COMPRESSION OR SET SCREW TYPE. .

EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION.

RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.

d. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.

e. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING: ADD BOX VOLUME WHERE REQUIRED.

f. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONS ROOMS.

g. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN. MAXIMUM RESISTANCE SHALL BE 25 OHMS.

10.0 WIRE AND CABLE:

10.1 PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES. SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.

10.2 CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (NO. 10 AND SMALLER) OR STRANDED (NO. 8 AND LARGER). GENERAL USE CABLING SHALL BE NO. 12 MINIMUM. AT 120 VOLTS AND OVER 100 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM. AT 265 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM.

10.3 CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM. AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 12 MINIMUM.

10.4 OTHER VOLTAGES AND PHASES: ADJUST CABLE SIZING AS REQUIRED TO MAINTAIN VOLTAGE DROP. INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

10.0 WIRE AND CABLE CONTINUED:

10.5 INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND IPCEA STANDARDS. TYPE THW OR THWN SHALL BE UTILIZED FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED. TYPE SFF-2 SHALL BE UTILIZED FOR BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLUORESCENT FIXTURES AND IN AMBIENT TEMPERATURES OVER 90 DEG C. FOR UNGROUNDED ISOLATED BRANCH CIRCUITS PROVIDE CROSS-LINKED POLYETHYLENE INSULATION (TYPE XHHW).

10.6 COLOR CODING SHALL BE AS FOLLOWS:

1) 120/208 VOLT SYSTEM:
BLACK FOR A PHASE
RED FOR B PHASE
BLUE FOR C PHASE

2) 277/480 VOLT SYSTEM:
BROWN FOR A PHASE
ORANGE FOR B PHASE
YELLOW FOR C PHASE

3) NEUTRAL WIRE SHALL UTILIZE WHITE OUTER COVERING THROUGHOUT. EQUIPMENT GROUND WIRE SHALL UTILIZE GREEN OUTER COVERING THROUGHOUT.

10.7 WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION TO OVERLAP CONDUCTORS WITH 6 IN. OF COLOR TAPING IN ACCESSIBLE LOCATIONS.

10.8 PROVIDE FLAMEPROOF LINEN OR FIBER TAGS IN ACCESSIBLE LOCATIONS. FOR FEEDERS INDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS. FOR CONTROL AND ALARM WIRING INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OF ORIGIN AND TERMINATIONS.

10.9 TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. CABLE LUGS AND CONNECTORS SHALL UTILIZE COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUG CONNECTIONS TO BUS BARS: USE ANTISEIZE COMPOUND ON TANG.

10.10 NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF 120/208 AND 277/480 VOLT SYSTEMS, EXCEPT 480 VOLT MOTOR BRANCH CIRCUIT WIRING AND RELATED 120 VOLT CONTROL WIRING. THERMOPLASTIC WIRES SHALL NOT BE INSTALLED IN COMPUTER AREA RAISED FLOORS.

10.11 LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.

10.12 PERFORM CONTINUITY AND INSULATION TESTS. MEGGER TEST 100 PERCENT OF FEEDERS, 10 PERCENT OF BRANCH CIRCUITS AND ALL MOTOR BRANCH CIRCUITS OVER 25 HP.

10.13 PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS.

10.14 ALL LOW VOLTAGE WIRING ABOVE CEILING, SHALL BE PLENUM RATED OR IN CONDUIT AS REQUIRED BY LOCAL JURISDICTION HAVING AUTHORITY.

11.0 DEVICES:

11.1 PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED.

11.2 LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/277 VOLT, AC.

11.3 INSERTION RECEPTACLES SHALL BE SPECIFICATION GRADE DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT. GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD-1-1971.

1) SINGLE, EXCEPT AS NOTED:
a. 20 AMP STRAIGHT BLADE,
b. 125 VOLT, 2 POLE, 3 WIRE, GROUNDED.
2) SPECIAL USE: NONINTERCHANGEABLE TYPES AND RATINGS.
3) CLOCKS: SINGLE REGRESSED RECEPTACLE, 5 WIRE
4) GROUND FAULT INTERRUPTER RECEPTACLES:
a. FEED-THRU TYPE.

11.4 DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLT, INSCRIBED VOLTAGE AVAILABLE.

11.5 COLORS: COORDINATE COLORS WITH ARCHITECT.

11. 6 MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL) COORDINATE WITH ARCHITECT.

12.0 LIGHTING FIXTURES:

12.1 PROVIDE FIXTURES ("LUMINARES"), COMPONENTS AND LAMPS. FIXTURES SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS, BALLASTS, SUPPORTING HARDWARE AND ACCESSORIES. REFER TO DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS.

12.2 FIXTURE CATALOG NUMBERS USED TO ILLUSTRATE EQUIPMENT TYPE DO NOT NECESSARILY DENOTE REQUIRED MOUNTING EQUIPMENT OR ACCESSORIES. PROVIDE ACCESSORIES TO SUIT.

12.3 BALLAST: CLASS P, HIGH POWER FACTOR, LOWEST AVAILABLE NEMA RATED NOISE LEVEL, ETI AND CBM APPROVED. ENERGY SAVING TYPE. TRIGGER START FOR 24-INCH LAMPS AND RAPID START FOR 48-INCH. TWO LAMP BALLASTS AND THREE LAMP BALLASTS. BALLASTS SHALL BE ADVANCE MAGNETEK, UNIVERSAL OR EQUAL.

13.0 TELEPHONE CONDUIT SYSTEM:

13.1 PROVIDE COMPLETE SYSTEM OF: EMPTY CONDUIT, PULL BOXES, OUTLETS, SLEEVES AND FISHWIRES.

13.2 EQUIPMENT SHALL CONFORM TO REQUIREMENTS OF TELEPHONE COMPANY.

13.3 OUTLETS SHALL BE:
1) WALL: 4 IN. SQUARE WITH BUSHED COVER PLATE.
2) FLOOR: CAST IRON WITH LOW TENSION FITTING.

13.4 PROVIDE FISHWIRES, IN RACEWAYS OVER 10 FT LONG.

13.5 CONDUIT SHALL BE 3/4 IN. MINIMUM. FURNISH EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING.

(1) **ELECTRICAL SPECIFICATIONS**
SCALE: NOT TO SCALE

REVISIONS	BY

OLIVERI ARCHITECTS
A.A 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6623
• www.oliveriarchitects.com •

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WILLIAM O. RITOLA
LICENSE
No. 59480
1-28-14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ELECTRICAL CONSULTING & DESIGN INC.

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: IIT
Job: 13-227
Sheet
E1

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
	1 X 4 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
A	2 X 4 FLUORESCENT FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	SHADING DENOTES FIXTURE WITH EM BATTERY PACK. 'NL' DENOTES FIXTURE UNSWITCHED FOR NIGHT LIGHT	SEE FIXTURE SCHEDULE
	FLUORESCENT STRIP FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	FLUORESCENT WALL BRACKET FIXTURE LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
	PL FLUORESCENT DOWNLIGHT LETTER INDICATES TYPE	SEE FIXTURE SCHEDULE
EX	EXIT-SHADING DENOTES FACEPLATE LOCATION. LETTER INDICATES TYPE. PROVIDE ARROWS AS REQUIRED.	SEE FIXTURE SCHEDULE
S S_3 S_D	SINGLE POLE SWITCH (20A-120/277) '3' DENOTES 3-WAY 'D' DENOTES OCCUPANCY SENSOR	48" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A 'IG' DENOTES ISOLATED GROUND	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
	DUPLEX RECEPTACLE, 125V, 20A	48" AFF OR AS NOTED
	QUADRAPLEX RECEPTACLE, 125V, 20A	18" AFF OR AS NOTED
V	COMBINATION VOICE/DATA OUTLET	18" AFF OR AS NOTED
TV	T.V. OUTLET	18" AFF OR AS NOTED
	PANELBOARD 120/240V	SEE PANEL SCHEDULE
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING	SEE SPECIFICATIIS
	HOMERUN TO PANEL. LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT. NOTE: HASH MARKS INDICATES THE NUMBER OF WIRES EXCLUDING THE REQUIRED EQUIPMENT GROUND.	SEE SPECIFICATIIS
(S)	MOTOR, NUMERAL INDICATES HORSEPOWER	AS NOTED
$	MOTOR RATED SWITCH WITH OVERLOAD RELAYS IF REQUIRED.	MOUNTED ADJACIT TO EQUIPMENT
	NON-FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIIS
	FUSIBLE SAFETY SWITCH-SIZE AS NOTED	SEE SPECIFICATIIS
S^R	FIRE ALARM DUCT DETECTOR ('R'A'DENOTES RETURN AIR 'SA' DENOTES SUPPLY AIR)	MOUNTED IN HVAC DUCTWOR
R	FAN OR AIR HANDLER SHUTDOWN RELAY	MOUNTED ADJACNT TO EQUIPMEN
	FIRE ALARM VISUAL SIGNAL	80" AFF OR AS NOTED
	FIRE ALARM MANUAL PULLSTATION	48" AFF OR AS NOTED
	FIRE ALARM AUDIBLE/VISUAL SIGNAL. ADA COMPATIBLE	80" AFF OR AS NOTED
	FIRE ALARM SMOKE DETECTOR	ON CEILING OI AS NOTED
FACP / FAA	FIRE ALARM PANEL ('FACP' DENOTES FIRE ALARM CONTROL PANEL, 'FAA' DENOTES ANNUNCIATOR)	60" AFF OR AS NOTED
EX	DENOTES EXISTING DEVICE OR CIRCUIT TO REMAIN	
R	DENOTE NEW LOCATION FOR RELOCATED DEVICE	
(3) (3)	REFER TO LIKE NUMBERED NOTES	

NOTE: ALL MOUNTING HEIGHTS SHOWN ARE TO THE TOP OF THE DEVICE UNLESS NOTED OTHERWISE. NOT ALL SYMBOLS APPEAR ON PLANS.

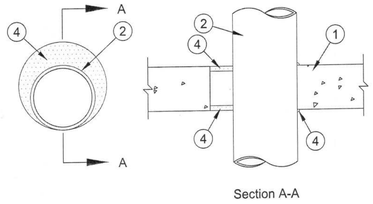
ABBREVIATIONS:

AFF	-	ABOVE FINISHED FLOOR
AHU	-	AIR HANDLING UNIT
BFG	-	BELOW FINISHED GRADE
C	-	CONDUIT
CW	-	COOL WHITE
DACP	-	DOOR ALARM CONTROL PANEL
DN	-	DOWN
EF	-	EXHAUST FAN
EG	-	EQUIPMENT GROUND
ENCL	-	ENCLOSURE
EWC	-	ELECTRIC WATER COOLER
EWH	-	ELECTRIC WATER HEATER
EX	-	EXISTING
FCU	-	FAN COIL UNIT
FHP	-	FRACTIONAL HORSE POWER
FLA	-	FULL LOAD AMPERES
G	-	GROUND
GFI	-	GROUND FAULT INTERRUPTER
HID	-	HIGH INTENSISTY DISCHARGE
HORIZ	-	HORIZONTAL
IG	-	ISOLATED GROUND
LW	-	LIGHT WHITE
HP	-	HORSEPOWER HEAT PUMP
HVAC	-	HEATING, BENTILATING, AIR CONDITIONING
JB	-	JUNCTION BOX
LRA	-	LOCKED ROTOR AMPERES
MCB	-	MAIN CIRCUIT BREAKER
MLO	-	MAIN LUGS ONLY
N	-	NEW
NL	-	NIGHT LIGHT
OB	-	OUTLET BOX
PB	-	PULL BOX, PUSH-BUTTON
R	-	RELOCATED
RECEPT	-	RECEPTACLE
SF	-	SUPPLY FAN
SPEC	-	SPECIFICATIONS
SWECS	-	SMOKE WARNING EMERGENCY CALL SYSTEM
TL	-	TWISTLOCK
TTB	-	TELEPHONE TERMINAL BOARD
TVTB	-	TELEVISION TERMINAL BOARD
UNO	-	UNLESS NOTED OTHERWISE
VERT	-	VERTICAL
WM	-	WATT MISER
WP	-	WEATHERPROOF
WW	-	WARM WHITE
XFMR	-	TRANSFORMER

1 ELECTRICAL LEGEND
SCALE: NOT TO SCALE

System No. C-AJ-1259

F Rating - 3 Hr
T Rating - 0 Hr



Section A-A

1. **Floor or Wall Assembly -** Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in.

   See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrants -** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be a min of 0 in. (point contact) to a max of 3 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduit or tubing may be used:
   A. **Steel Pipe -** Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe -** Nom 6 in. diam (or smaller) cast or ductile iron pipe.
   C. **Conduit -** Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   D. **Copper Tube -** Nom 4 in. diam (or smaller) Type L (or heavier) copper tube.
3. **Forming Material -** (Optional, Not Shown) - Mineral wool batt packing material or polyurethane backer rod friction fitted into opening and recessed from floor or wall surfaces as required to accommodate required thickness of fill material.
4. **Fill, Void or Cavity Material* - Sealant -** Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of floor or wall. At the point contact location between penetrating item and concrete, a min 1/4 in. thick bead of fill material shall be applied at the concrete/penetrating item interface on both sides of floor or wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   *Bearing the UL Classification Mark

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com

C-AJ-1259
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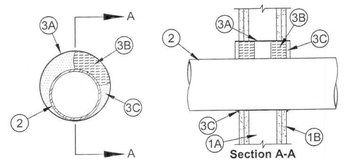
System No. W-L-1079

F Ratings - 1 and 2 Hr (See Item 1B)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. **Wall Assembly -** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
   B. **Gypsum Board* -** 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is in wood stud walls is 13 in. Max diam of opening in steel stud walls is 16 in.

   The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrant -** One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes or conduits and periphery of opening shall be min 0 in. (point contact) to max 3 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. **Steel Pipe -** Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe -** Nom 12 in. diam (or smaller) cast or ductile iron pipe.
   C. **Conduit -** Nom 4 in. diam (or smaller) electrical metallic tubing, nom 6 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel tubing.
   D. **Copper Pipe -** Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   E. **Copper Tube -** Nom 6 in. diam (or smaller) Type L (or heavier) copper tube.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: January 2,2009

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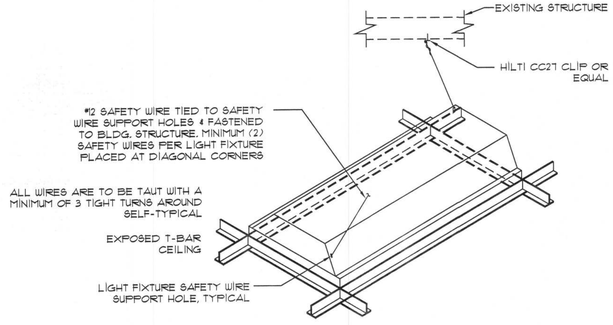
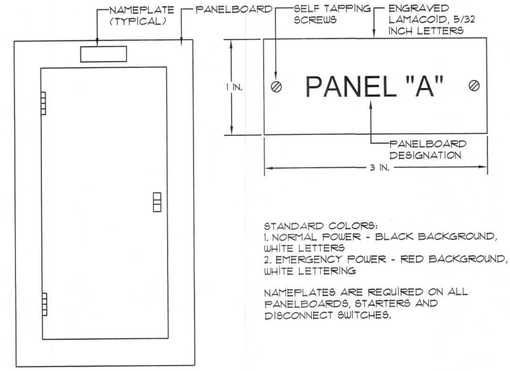
W-L-1079
PAGE 1 OF 2

2 ELECTRICAL FIRE RATING DETAILS
NOT TO SCALE



RECESSED FIXTURE SUPPORT DETAIL

NOT TO SCALE



STANDARD COLORS:
1. NORMAL POWER - BLACK BACKGROUND, WHITE LETTERS
2. EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING

NAMEPLATES ARE REQUIRED ON ALL PANELBOARDS, STARTERS AND DISCONNECT SWITCHES.

PANELBOARD NAMEPLATE DETAIL

NOT TO SCALE

4 ELECTRICAL DETAILS
SCALE: NOT TO SCALE

GENERAL DEMOLITION NOTES

GENERAL PROJECT AND DEMOLITION NOTES:

1. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCED THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
2. ALL EXISTING CIRCUITS TO REMAIN SHALL BE RECONNECTED WHETHER INDICATED OR NOT ON PROJECT DOCUMENTS.
3. NEW AND EXISTING CIRCUIT DESIGNATIONS MAY NOT REFRESENT ACTUAL FIELD CONDITIONS. FIELD VERIFY WHERE REQUIRED AND INDICATE ACTUAL CIRCUIT USED ON THE AS-BUILT DRAWINGS.
4. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION/RECONNECTION ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL PLANS.
5. WHERE EXISTING PARTITIONS OR WALLS ARE SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE DEVICES TO NEAREST SOURCE JUNCTION BOX AND SHALL MAINTAIN SERVICE TO REMAINING DOWNSTREAM ELECTRICAL OUTLETS. COORDINATE THE DEMOLITION OF THE EXISTING WALLS WITH ARCHITECTURAL DRAWINGS.
6. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS NECESSARY TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
7. REMOVE ELECTRICAL EQUIPMENT AND INSTALLATIONS, INDICATED TO BE DEMOLISHED, IN THEIR ENTIRETY. WHERE THE EXISTING EQUIPMENT INDICATED TO BE DEMOLISHED CONTAINS BRANCH CIRCUITRY SERVICING OUTLETS THAT ARE EXISTING TO REMAIN, RELOCATE THE BRANCH CIRCUIT TO AN ALTERNATE PANEL AND INDICATE THE CHANGE ON THE AS-BUILT DRAWINGS.
8. ABANDONED WORK: CUT OR REMOVE RACEWAY SLEEVES AND WIRING, INDICATED TO BE ABANDONED IN PLACE, BELOW THE SURFACE OF ADJACENT CONSTRUCTION. CAP RACEWAYS AND PATCH SURFACE TO MATCH EXISTING FINISH.
9. REMOVE ALL EXISTING FLOOR BOX BRANCH CIRCUITS COMPLETELY BACK TO PANEL. REMOVE FLOOR DATA WIRING COMPLETELY BACK TO SOURCE. REMOVE FLOOR BOX COVERS AND FLANGES AND GRIND FLOOR BOX TO BELOW FINISHED SLAB TO PREPARE FOR CONCRETE FINISH WORK. COORDINATE WITH GENERAL CONTRACTOR.
10. THE CONTRACTOR SHALL INCLUDE WITHIN THE BID ALL REQUIRED OFF HOUR, OVERTIME, AND NON-BUSINESS HOUR WORK AS REQUIRED TO PERFORM THE DEMOLITION WITHOUT DISRUPTING THE BUILDING TENANTS NORMAL BUSINESS OPERATIONS.
11. REMOVE ALL DATA WIRING AND EQUIPMENT RACKS THAT WILL NOT BE RE-USED. RELOCATE TELEPHONE DEMARC CONDUIT TO NEW LOCATION AS REQUIRED.
12. ALL DEMOLISHED EQUIPMENT AND WIRING SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S SOLE OPTION.

LIGHT FIXTURE SCHEDULE

MARK	SYMBOL	MANUFACTURER	CATALOG NUMBER	FIXTURE DESCRIPTION	VOLT	LAMP DESCRIPTION	REMARKS
A		COOPER	2GR8-332A-UNV-EB81U	2x4 FLUORESCENT TROFFER	MULTI	GE LIGHTING NAED, 25612 F32T8/SPP35/ECO INITIAL LUMENS, 2950 CRI: 85 KELVIN TEMP: 3500	2x4, 3-LAMP RECESSED ACRYLIC LENS TROFFER, GENERAL GRADE, (1) MULTI-VOLT ELECTRONIC BALLAST
AE EM/NL		COOPER	2GR8-332A-UNV-EB81U -EM 1400 LUMEN	2x4 FLUORESCENT TROFFER	MULTI	GE LIGHTING NAED, 25612 F32T8/SPP35/ECO INITIAL LUMENS, 2950 CRI: 85 KELVIN TEMP: 3500	SAME FIXTURE AS ABOVE WITH 90 MINUTE EMERGENCY BATTERY BACK-UP 1400 LUMEN MINIMUM
AIE EM/NL		COOPER	2GR8-332A-UNV-EB81U -EM-500 LUMEN	2x4 FLUORESCENT TROFFER	MULTI	GE LIGHTING NAED, 25612 F32T8/SPP35/ECO INITIAL LUMENS, 2950 CRI: 85 KELVIN TEMP: 3500	SAME FIXTURE AS ABOVE WITH 90 MINUTE EMERGENCY BATTERY BACK-UP 500 LUMEN MINIMUM, BATH AND HALL
D		COOPER	SS-232-UNV-EB81U	4' FLUORESCENT CHANNEL STRIP	MULTI	GE LIGHTING NAED, 25612 F32T8/SPP35/ECO INITIAL LUMENS, 2950 CRI: 85 KELVIN TEMP: 3500	4' 2-LAMP GENERAL PURPOSE CHANNEL SLIMLINE STRIP
S		STONCO	FPM-70PM-AL-8	WALL PACK FULL CUT OFF	MULTI	LAMP INCLUDED	ARCHITECTURAL WALL PACK BRONZE FULL CUT OFF
X1		LITHONIA	EDG-1-R-EL-M6	EXIT/EMERGENCY	MULTI	LED LAMP INCLUDED	UNIVERSAL MOUNT WITH SINGLE OR DUAL FACE
X3		COOPER	AEL-231	EXTERIOR RATED EMERGENCY LIGHT	MULTI	LAMP INCLUDED	EMERGENCY LIGHT WITH WET LOCATION LABEL

NOTE:
1. FIXTURES INDICATED WITH "EM" ARE TO HAVE 90 MIN. BATTERY BACK-UP FOR EMERGENCY USE.
2. FIXTURES INDICATED WITH "NL" ARE TO BE CONNECTED TO A LOCAL CIRCUIT AHEAD OF SWITCH (HOT) FOR CONTINUOUS OPERATION - NIGHT LIGHTING
3. ALL FIXTURES QUANTITIES, LOCATIONS AND MODEL NUMBERS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO ORDERING.
4. FIXTURES ARE FURNISHED AND INSTALLED BY G.C.
5. COMPLY WITH NEC 410.130.G FOR DISCONNECTING MEANS OF FLUORESCENT LUMINARIES.

LIGHTING VENDOR: CONTACTS: ALLYN BOSTICK, MIKE FONT, STEVE BROWN PHONE: 800-880-1401 FAX: 713-462-6282
AMERICAN LIGHT
5091 STEADMONT
HOUSTON, TEXAS 77040

3 ELECTRICAL LIGHT FIXTURE SCHEDULE
NOT TO SCALE

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
3200 Dr. Martin Luther King Jr. Blvd. Suite 110 Tampa, FL 33607
Phone 727 . 781 . 7525 • Fax 727 . 781 . 6023
• www.oliverarchitects.com •

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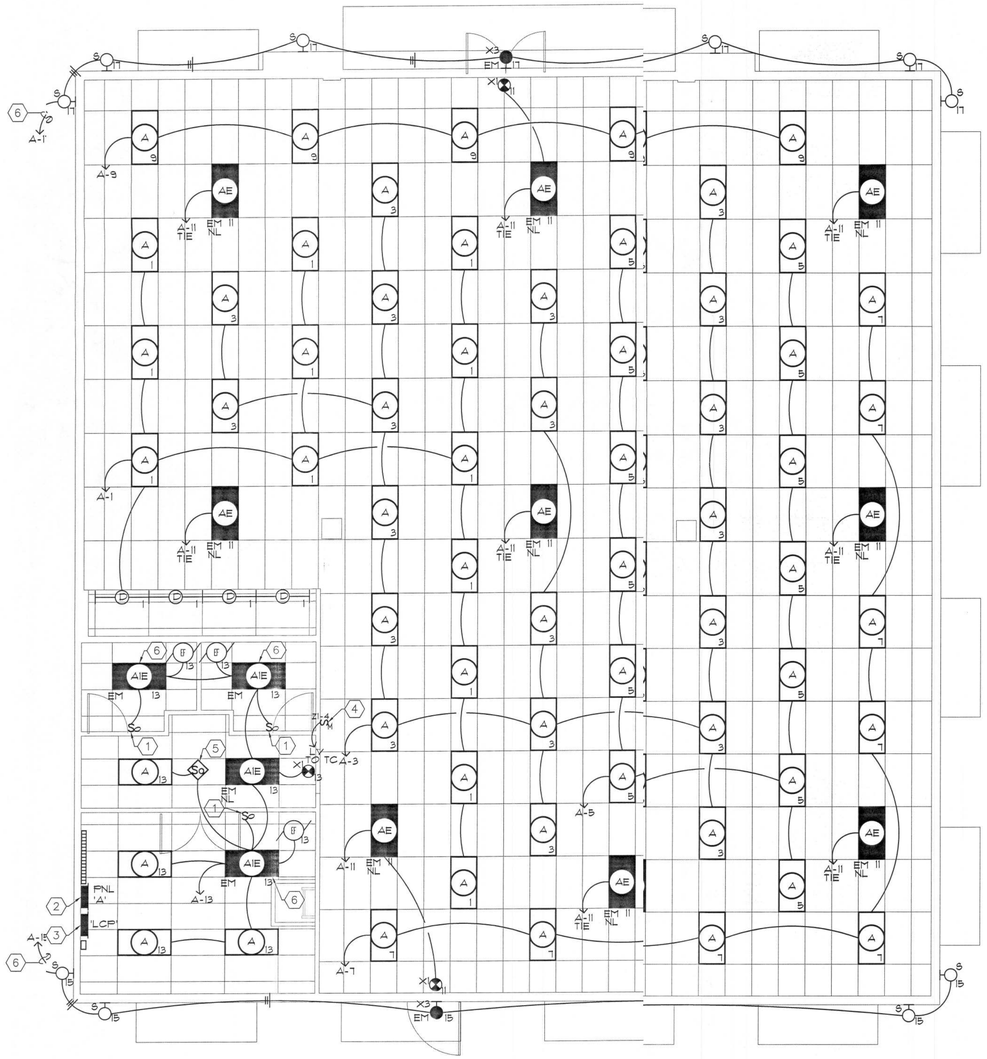
ELECTRICAL CONSULTANTS
DESIGN, INC.
LICENSED
No. 59480
1-28-14
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LW360

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: IIT
Job: 13-227

Sheet
E2



1 ELECTRICAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"

LIGHTING ALLOWANCE CALCULATION
FLORIDA BUILDING CODE 2010

ROOM NAME	AREA	WATTAGE ALLOWED PER SQUARE FOOT	TOTAL WATTAGE ALLOWED	LAMP TYPE	BALLAST QUANTITY	BALLAST WATTAGE	ACTUAL WATTAGE USED
RETAIL - SALES AREA	3844	1.7	6534.8	3-32W T8	68	85	5780
				2-32W T8	4	58	232
CORRIDOR	104	0.5	52	3-32W T8	2	85	170
RESTROOM	110	0.9	99	3-32W T8	2	85	170
ELECTRICAL RM	243	1.5	364.5	3-32W T8	4	85	340
TOTALS	4301		7050.3				6692
					COMPLIES BY		358.3

CONTROL NOTE:
BUILDING IS IS LESS THAN 5000 SQ. FEET
AUTOMATIC LIGHTING CONTROLS IS NOT REQUIRED.

2 LIGHTING ALLOWANCE
SCALE: NOT TO SCALE

KEYED NOTES

DRAWING NOTES

1. PROVIDE DECORA OCCUPANCY SENSORS IN AREAS SHOWN. LEVITON #ODS15-ID
2. PROVIDE ELECTRICAL PANEL 'A'. REFER TO SHEET E4 AND E5 FOR ELECTRICAL DISTRIBUTION EQUIPMENT COORDINATION AND REQUIREMENTS.
3. PROVIDE LIGHTING CONTROL PANEL AND LIGHTING CONTACTORS. REFER TO LIGHTING CONTROL DETAIL FOR MORE INFORMATION.
4. MASTER SWITCH FOR LIGHT CONTROL AND AFTER HOURS OVER RIDE OF LIGHTING CONTROL PANEL.
5. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF LIGHTS IN THIS ROOM. SENSOR TO CONTROL POWER TO LINE SIDE OF LIGHT SWITCH(ES) IN FILE ROOM. LEVITON OSC10M SENSOR AND OSC SERIES POWER PACK.
6. PROVIDE AN UNSWITCHED CONDUCTOR FOR ALL EMERGENCY LIGHTS.

GENERAL NOTES

1. REFER TO SHEET E2 FOR LIGHT FIXTURE SCHEDULE.
2. CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND ADJUST FOR ACTUAL FIELD CONDITIONS AT NO EXPENSE TO OWNER. REPORT TO THE ARCHITECT AND OR ENGINEER ANY DISCREPANCIES WITH THE PLANS AND EXISTING CONDITIONS.
3. "NL" DESIGNATION INDICATES FIXTURE TO BE NIGHT LIGHT, CIRCUITED HOT FOR CONTINUOUS OPERATION.
4. COMPLY WITH NEC 410.130.G FOR DISCONNECTING MEANS OF FLUORESCENT LUMINARIES.
5. THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING LIGHT FIXTURES DURING THE MANDATORY SITE VISIT AND INCLUDE THE REPAIR OF ALL THE EXISTING LIGHT FIXTURES. THE CONTRACTOR SHALL REPAIR ALL LAMPS AND BALLASTS AS REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM, INCLUDING ALL EXTERIOR LIGHTS
6. THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING LIGHT FIXTURE LENS AND PROVIDE NEW LENS WHERE THEY ARE FOUND TO BE DAMAGED, CRACKED OR DISCOLORED.
7. JUNCTION BOXES FOR EXISTING EXTERIOR LIGHTING ARE SHOWN FOR REFERENCE ONLY. FIELD VERIFY EXACT LOCATIONS AND CIRCUITS LOCATIONS

REVISIONS	BY

OLIVERI ARCHITECTS
AA 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7525 • Fax 727 . 781 . 9623
• www.oliverarchitects.com •

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ELECTRICAL CONSULTING & DESIGN INC.
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
14365

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

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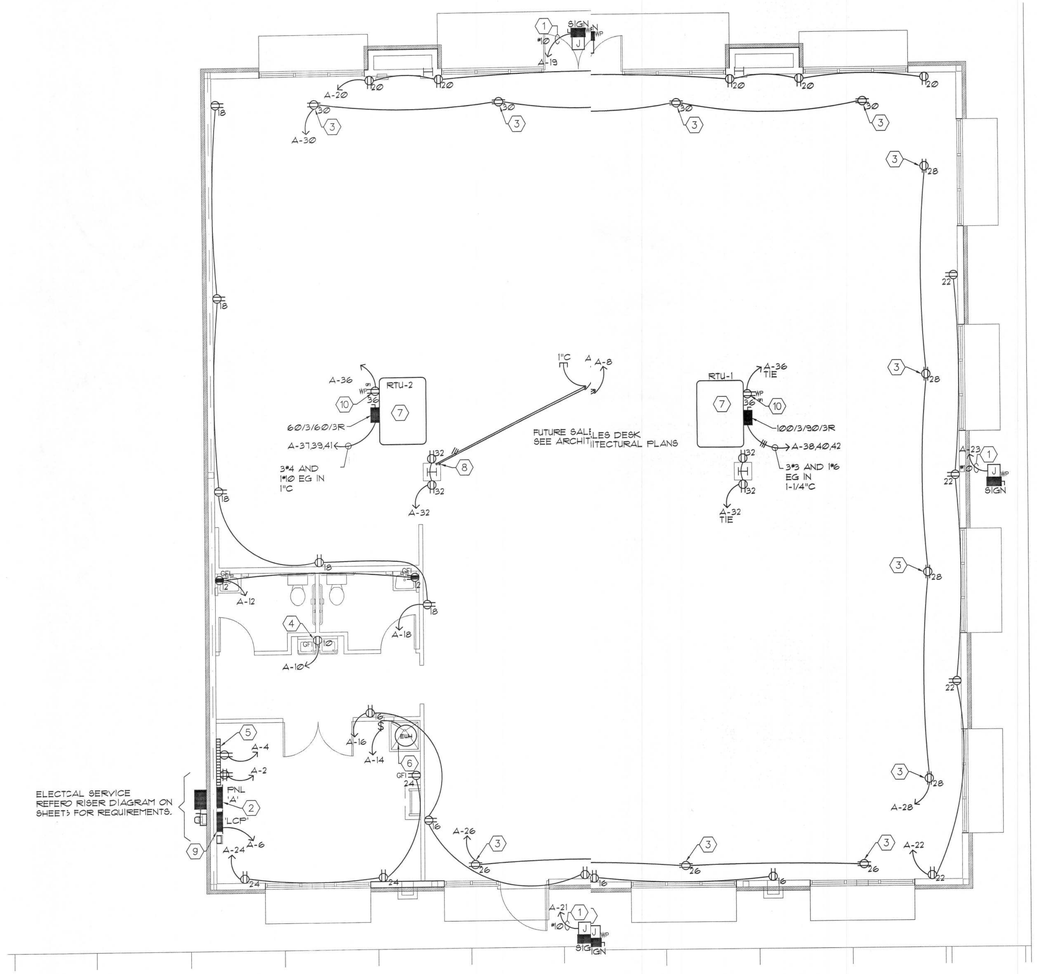

1 ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-Ø"

GENERAL NOTES

17. INSTALL LOCK-ON DEVICE ON CIRCUIT BREAKERS FOR EMERGENCY LIGHTING, EXIT LIGHTS, SECURITY SYSTEM AND CASH REGISTERS TO PREVENT ACCIDENTAL TURNING OFF OF CIRCUITS.

18. CONDUIT SHALL BE CONCEALED WHERE POSSIBLE AND SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS OR FLOORS.

19. CLEAN EQUIPMENT, LIGHT FIXTURES, AND CONSTRUCTION SITE AT COMPLETION OF PROJECT. REMOVE TEMPORARY WIRING WHEN CONSTRUCTION IS COMPLETE.

2Ø. SEAL ALL PENETRATIONS THROUGH WALLS OR FLOORS WITH APPROPRIATE CAULK OR GROUT. SEAL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS WITH UL LISTED FIRE STOP COMPOUND.

21. ENTIRE INSTALLATION SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND BALANCED ACROSS ALL THREE PHASES.

22. PROVIDE PLASTIC BUSHINGS AT OPEN ENDS OF ALL CONDUITS WITH LOW VOLTAGE WIRING.

KEYED NOTES

DRAWING NOTES⬡

1. PROVIDE AND INSTALL JUNCTION BOX FOR TENANT SIGNAGE. PROVIDE DISCONNECT TO SIGNAGE PER ARTICLE 6ØØ-2 OF THE N.E.C. ROUTE VIA LIGHTING CONTACTOR.
2. PROVIDE ELECTRICAL PANEL 'A'. REFER TO SHEET E8 FOR ELECTRICAL DISTRIBUTION EQUIPMENT COORDINATION AND REQUIREMENTS.
3. 12Ø V DUPLEX OUTLET MOUNTED BELOW CEILING AT SHOW WINDOW PER N.E.C. SUPPORT OUTLET AND BOX FROM STRUCTURE. COORDINATE EXACT LOCATION IN FIELD.
4. PROVIDE FINAL CONNECTION TO THE ELECTRIC WATER COOLER. PROVIDE RECEPTACLE CORD AND CAP AS REQUIRED.
5. PROVIDE 4'X8'X3/4" THICK PHONE BOARD FOR TENANT COMMUNICATION AND LIGHT STAT SYSTEM REQUIREMENTS. PAINT WITH 2 COATS OF FIRE RETARDANT PAINT. EXTEND A 2"C TO THE TELEPHONE COMPANY.
6. PROVIDE FINAL CONNECTION TO THE ELECTRIC WATER HEATER. PROVIDE A DOUBLE POLE 3ØA SWITCH FOR A LOCAL DISCONNECT.
7. PROVIDE DISCONNECT AND FINAL CONNECTION TO HVAC ROOF TOP UNIT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
8. PROVIDE AND INSTALL CONDUIT STUB-UPS FOR POWER AND DATA FOR FUTURE SALES DESK. VERIFY CONDUIT STUB-UPS WITH ARCHITECT AND OWNER.
9. LIGHTING CONTROL PANEL AND CONTACTORS.
10. PROVIDE HVAC SERVICE 1/P GFI RECEPTACLE. SUPPORT OUTLET AND BOX FROM HVAC UNIT AND ROOF STRUCTURE. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES

1. VERIFY LOCATION OF ALL NEW DEVICES WITH THE TENAIT CONSTRUCTION MANAGER AND EQUIPMENT VENDOR PRIOR TO INSTALLATION.
2. ELECTRICAL INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND ALL LOCAL ORDINANCES HAVING JURISDICTION.
3. ELECTRICAL CONDUCTORS TO BE COPPER ONLY, MINIMUM NO. 12 AWG.
4. PROVIDE IDENTIFICATION OF ALL BRANCH CIRCUITS ON A TYPEWRITTEN DIRECTORY CARD, PERMANENTLY AFFIXED TO THE DOOR OF EACH LIGHTING AND DISTRIBUTION PANEL.
5. PROVIDE ENGRAVED NAMEPLATES WITH 1/2" HIGH LETTERS FOR ALL PANELS, DISCONNECT SWITCHES, STARTERS, AND ENCLOSED CIRCUIT BREAKERS. NAMEPLATES SHALL BE PERMANENTLY ATTACHED TO EACH DEVICE.
6. ALL MATERIALS SHALL SHALL BEAR UNDERWRITERS AND UNION LABELS WHERE SUCH LABELING APPLIES.
7. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
8. ALL CONDUIT CONNECTIONS TO MOTORIZED OR VIBRATING EQUIPMENT SHALL BE MADE WITH "SEALTITE" FLEX CONDUIT. PROVIDE MOLDED NEOPRENE PADS OR VIBRATION ISOLATORS FOR MOTORIZED OR VIBRATING EQUIPMENT.
9. MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FREE FROM DEFECTS FOR ONE (1) YEAR FROM DATE OF OWNER ACCEPTANCE, AND BE REPLACED, IF REQUIRED, AT NO EXPENSE TO OWNER, DURING FIRST YEAR.
10. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
11. ELECTRICAL CONTRACTOR SHALL MEGGER TEST ALL MOTORS AND FEEDERS PRIOR TO ENERGIZING. REPLACE DEFECTIVE FEEDERS AND NOTIFY OWNER OF ANY DEFECTIVE MOTORS.
12. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE PROJECT WORK.
13. ALL LIGHTING FIXTURES SHALL BE WIRED AS PER THE NATIONAL ELECTRIC CODE.
14. GROUND WIRE SHALL BE IN ALL CONDUITS.
15. GROUNDING TYPE BUSHINGS SHALL BE USED AS REQUIRED BY CODE.
16. SIGN CONTRACTOR SHALL INSTALL ALL SIGNS. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL HOOK-UP OF SIGNS (FROM SIGN TO JUNCTION BOX). SIGN CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING OPERATION OF SIGNS, AFTER FINAL HOOK-UP BY ELECTRICIAN.

REVISIONS	BY

OLIVERI ARCHITECTS
A.A. 0002021
Member of the American Institute of Architects
32707 US Hwy. 19 N. • Palm Harbor, FL 34684
727.781.7500 • Fax 727.781.9668
Phone • www.oliverisarchitects.com •

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ELECTRICAL CONSULTANT: DESIGN INC.

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

Date:	01. 28. 14
Scale:	AS NOTED
Project Mgr:	AAY
Drawn:	IIT
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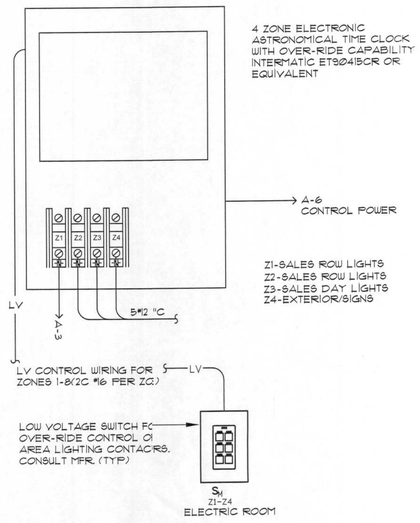
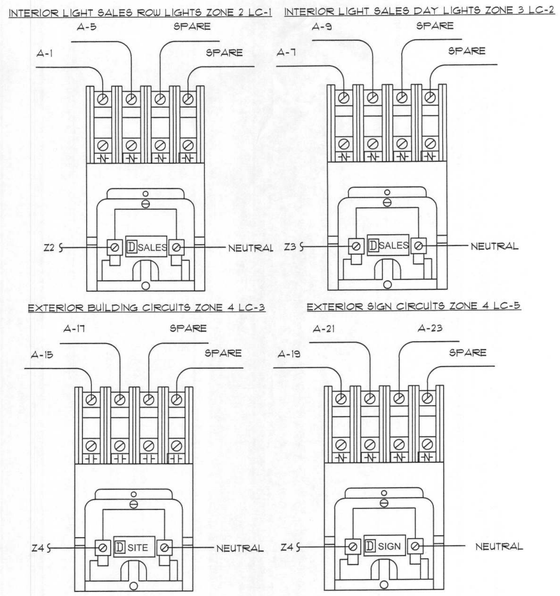
Sheet	E4

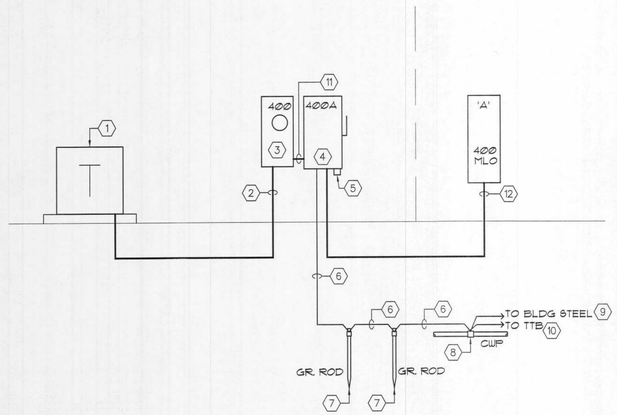




AUTOMATIC LIGHTING CONTROL DIAGRAM CONTACTOR TERMINATIONS

1. ADDITIONAL CONTACTORS:-1 THRU LC-5 (TOTAL OF 5) PROVIDED BY EC AS REQUIRED. CONTACTORS TO BE SQUARE D CLASS 8903 ENCLOSED OR EQUIVALENT

① ELECTRICAL LIGHTING CONTROL DETAILS
SCALE: NOT TO SCALE



RISER NOTES

1. 208/120 VOLT, 3 PH UTILITY PAD MOUNTED TRANSFORMER COORDINATE SERVICE INSTALLATION WITH UTILITY COMPANY AND OWNER.
2. 4 #500 KCMIL IN 3-1/2"C.
3. PROVIDE 400A METER PER UTILITY SPECIFICATION. BOND METER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
4. PROVIDE 400 AMP, 3 POLE, HEAVY DUTY, NEMA 3R, SERVICE ENTRANCE RATED FUSED DISCONNECT SWITCH WITH SOLID NEUTRAL KIT. BOND NEUTRAL TO GROUND AT THE SOLID NEUTRAL KIT AND FUSE AT 400 AMPS WITH CLASS RK1 FUSES.
5. UL LISTED LIGHTNING ARRESTOR, SQUARE D OR APPROVED EQUIVALENT.
6. #1/0 GROUND ELECTRODE CONDUCTOR SYSTEM TO DRIVEN GROUND RODS, METALLIC COLD WATER PIPE AND BUILDING STEEL.
7. 3/4" DIA. X 10' LONG DIVE COPPER CLAD GROUND ROD SYSTEM.
8. BOND OF THE METALLIC COLD WATER PIPE TO THE GROUND ELECTRODE SYSTEM
9. BOND OF THE GROUND ELECTRODE SYSTEM TO BUILDING STEEL.
10. EXTEND A #4 GEC IN 3/4"C TO THE TELEPHONE TERMINAL BOARD
11. 4 #500 KCMIL AND 1 #1/0 BOND IN 3-1/2"C .
12. 4 #500 KCMIL AND 1 #3 EG IN 3-1/2"C.

PANEL A — SURFACE MOUNTED, 120/208 VOLT 3 PHASE, 4 WIRE WITH GROUND — 400A MLO, NEMA 1, 42,000 AIC

NOTES	CKT. NO.	DESCRIPTION	BREAKER TRIP	POLE	VOLT	A	B	C	BREAKER VOLT	POLE	TRIP	DESCRIPTION	CKT. NO.	NOTES
1	1	SALES FLOOR LIGHTS-1	20	1	120	1337	360		120	1	20	TTB RECEPTACLES	2	5
1	3	SALES FLOOR LIGHTS-2	20	1	120		1785		120	1	20	SPARE	4	
1	5	SALES FLOOR LIGHTS-3	20	1	120			1105 500	120	1	20	LCP	6	5
1	7	SALES FLOOR DAYLIGHTS-1	20	1	120	680	720		120	1	20	FUTURE SALES DESK RECEPT.	8	2
1	9	SALES FLOOR DAYLIGHTS-2	20	1	120		425	750	120	1	20	EWC	10	5
1	11	NIGHT/EM LIGHTS (*)	20	1	120			810 360	120	1	20	RR RECEPTACLES	12	2
1	13	RR/EL ROOM LTS	20	1	120	1020	1500		120	1	20	EWH	14	5
1	15	EXTERIOR BLDG LIGHT-1 (*)	20	1	120		710	720	120	1	20	SALES FLOOR RECEPTACLES-1	16	2
1	17	EXTERIOR BLDG LIGHT-2	20	1	120			510 900	120	1	20	SALES FLOOR RECEPTACLES-2	18	2
1	19	SIGN-1	20	1	120	1200	900		120	1	20	SALES FLOOR RECEPTACLES-3	20	2
1	21	SIGN-2	20	1	120		1200	720	120	1	20	SALES FLOOR RECEPTACLES-4	22	2
1	23	SIGN-3	20	1	120			1200 540	120	1	20	FILE EL RM RECEPTACLES	24	2
	25	SPARE	20	1	120		540		120	1	20	SHOW WINDOWS RECEPT.-1	26	2
	27	SPARE	20	1	120			720	120	1	20	SHOW WINDOWS RECEPT.-2	28	2
	29	SPARE	20	1	120			720	120	1	20	SHOW WINDOWS RECEPT.-3	30	2
	31	SPARE	20	1	120		720		120	1	20	SALE COLUMN RECEPTACLES	32	2
	33	SPARE	20	1	120				120	1	20	SPARE	34	
	35	SPARE	20	1	120			360	120	1	20	ROOF AHU RECEPTACLE	36	2
4	37	RTU-1	100	3	208	9396	6576		208	3	60	RTU-2	38	4
4	39	-------					9396	6756				-------	40	4
4	41	-------						9396 6576				-------	42	4
		CONNECTED VA				24949		23182				22977		
		SYSTEM VOLTS				120/208V, 3 PHASE								
		PHASE AMPS				208		193				191		

NOTE ( )
*. PROVIDE BREAKER WITH PERMANENT LOCK ON DEVICE.

NOTES	LOAD TYPE		CONNECTED		NEC DEMAND		DEMAND LOAD	
1	LIGHTING		11982		1.25		14977.5	VA
2	RECEPTACLES		7920		1		7920	VA
3	AIR CONDITIONING		0		0		0	VA
4	HEATING	IS LARGER	48096		1		48096	VA
5	MISC. NON-CONTINUOUS		3110		1		3110	VA
6	CONTINUOUS		0		1.25		0	VA
7	SHOW WINDOWS		104	FT	200	VA/FT	20800	VA
					TOTAL		94903.5	VA
			120/208V, 3 PHASE				264	AMPS

DATE: 01-09-14
REVISED:
FAULT CURRENT STUDY
CABLE IMPEDANCE VALUES BASED ON IEEE STD. 241-1990, TABLE 65.
PROJECT: Retail
Lake City FL

SYSTEM VOLTAGE: 208
ASSUMED BASE KVA: 150
UTILITY COMPANY AFC: 28596
UTILITY COMPANY X/R RATIO: 12

WIRE TYPE CU=1
WIRE TYPE AL=2
PVC CONDUIT

BUS	SOURCE AFC	SOURCE X/R	WIRE SIZE	WIRE TYPE	# OF RUNS	FEEDER LENGTH	BUS X/R	BUS AFC
MAIN 'A'	28596	12.00	500	1	1	20	6.07	24733
PANEL 'A'	24733	6.07	500	1	1	4	5.60	24067

FAULT CURRENT STUDY NOTE:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A LETTER FROM UTILITY COMPANY FOR THE AVAILABLE FAULT CURRENT AT THE SECONDARY TERMINALS AT THE INSTALLED UTILITY TRANSFORMER. NOTIFY ENGINEER IF THE AVAILABLE FAULT CURRENT EXCEEDS THE BASIS OF DESIGN.

② ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE
SCALE: NOT TO SCALE

REVISIONS	BY

OLIVERI ARCHITECTS
ARCHITECTURE XX XXX XX
AA 0002921
Member of the American Institute of Architects
32707 US Hwy. 19 • Palm Harbor, FL 34684
Phone 727 . 781 . 7505 • Fax 727 . 781 . 6623
• www.oliverarchitect.com •

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ELECTRICAL CONSULTANT & DESIGN INC.
Paul Bonfiglio Pres. FL Lic. # PE 59480
2570 Bayshore Blvd. Dunedin, FL 34698
Ph. (727) 736-1919 Facsimile (727) 736-8503

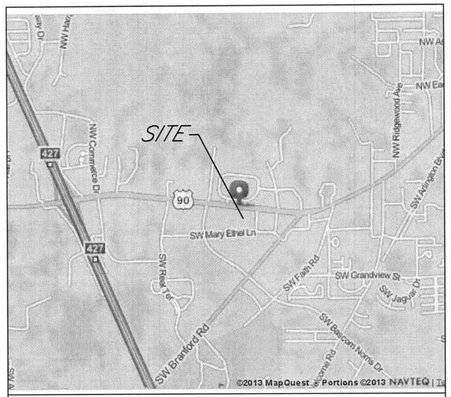
STATE OF FLORIDA
PAUL A. BONFIGLIO
LICENSE
No. 59480
1-28-14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

New Free Standing
RETAIL BUILDING
Lake City Place
Lake City, FL. 32055

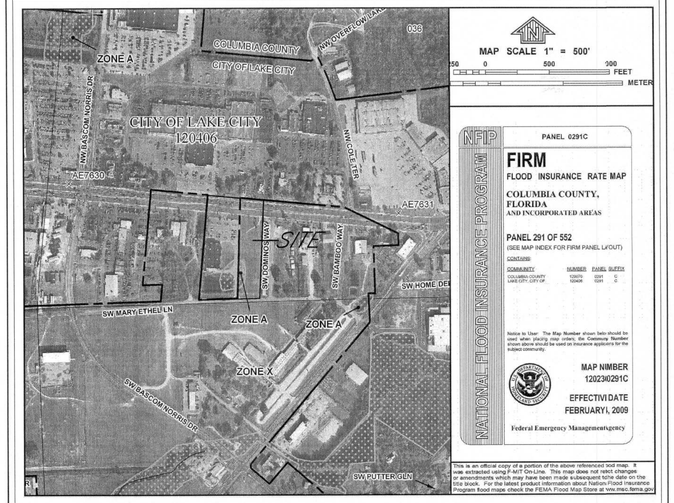
Date: 01. 28. 14
Scale: AS NOTED
Project Mgr: AAY
Drawn: IIT
Job: 13-227
Sheet
E5

MATTRESS FIRM

2434 U.S. HWY. 90 WEST
COLUMBIA COUNTY, FLORIDA 32055



LOCATION MAP – N.T.S.



FLOOD MAP

OWNER/DEVELOPER

Lake City Place, LP

1190 INTERSTATE PARKWAY, AUGUSTA, GEORGIA 30909 (706) 863-2222

24 HR. CONTACT: MR. ERIC BOWEN @ (706) 863-2222

ENGINEERS

HAINES, GIPSON & ASSOCIATES, INC.
1550 NORTH BROWN ROAD, SUITE 100
LAWRENCEVILLE, GA 30043
CONTACT: MR. JEFF STRICKLAND, P.E. @ (770) 491-7550

A SUWANNEE RIVER WATER MANAGEMENT DISTRICT PERMIT: ERP99-0261 HAS BEEN APPROVED FOR THIS SITE. ACTIVITIES INCLUDE THE CONSTRUCTION AND OPERATION OF A SURFACEWATER MANAGEMENT SYSTEM SERVING 5.24 ACRES OF IMPERVIOUS SURFACE ON THE TOTAL PROJECT AREA OF 6.65 ACRES. 2.80 ACRES OF IMPERVIOUS COVER CURRENTLY EXIST ON THE SITE. THIS DEVELOPMENT PROJECT WILL INCREASE THE IMPERVIOUS COVER BY 0.54 ACRES. 1.90 ACRES OF FUTURE IMPERVIOUS SURFACE CAN BE ACCOMODATED UNDER THE PERMIT.

STORMWATER RUN-OFF GENERATED FROM THE NEWLY DEVELOPED AREA WILL BE CONTROLLED BY THE EXISTING DETENTION POND.

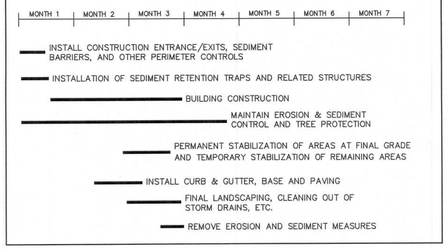
PROJECT NARRATIVE

1. A. LOCATION OF SITE: U.S. HWY. 90, COLUMBIA COUNTY, FLORIDA
   B. EXISTING LAND USE: DEVELOPED COMMERCIALL
   C. CRITICAL AREAS: – EXISTING DRAINAGE FACILITIES THAT CAN TRANSPORT SEDIMENTS. THESE INLETS SHAL BE PROTECTED BY TEMP. SEDIMENT TRAPS.
2. NATURE OF PROJECT: GRADING & REQUIRED SITE IMPROVEMENTS RELAC TO A NEW MATTRESS FIRM BLDG.
3. SIZE OF PROPERTY: 6.6 ACRES. DISTURBED AREA = 0.99 AC.
4. SITE ZONING CLASSIFICATION: COMMERCIAL
5. LOCATION, NATURE, & SIZE OF DEVELOPMENT: PROJECT WILL BE BUILTI ONE PHASE.
6. SIZE, TYPE OF STRUCTURAL UNITS, PAVED AREAS AND GREEN BELT ARE: LANDSCAPE STRIPS WILL REMAIN AROUND THE PERIMETER OF THE SITE. BUILDING SETBACKS ARE ALSO PROVIDED. RUN-OFF FROM THE PARKING AND BUILDING AREAS WILL CONTINUE TO DRAIN TO THE RIGHT OF WAY.
7. STARTING AND COMPLETION DATES: INITIAL DEMOLITION AND THE INSTALLATION OF EROSION CONTROL MEASURES WILL BEGIN IMMEDIATELY UPON RECEIPT OF LAND DISTURBANCE PERMITS. PROJECT COMPLETION IS ANTICIPATED IN 3 TO 6 MONTHS.
8. EXISTING AND PROPOSED EROSION AND SEDIMENT CONTROL PROBLEMS: NO EXISTING EROSION AND SEDIMENT CONTROL PROBLEMS ARE APPAREL ANTICIPATED PROBLEMS INCLUDE THE TRANSPORT OF SEDIMENT DURING INITIAL GRADING OPERATIONS. INSTALLATION OF PERIMETER SILT FENCI WILL BE REQUIRED BEFORE ANY OTHER DISTURBANCE ON SITE. SEDIME TRAPS AT ALL INLETS WILL BE UTILIZED TO TRAP SEDIMENTS BEFORE THEY COULD LEAVE THE SITE.
9. PURPOSE, NATURE AND EXTENT OF PROPOSED EROSION AND SEDIMENT CONTROL PROGRAM: ALL ON-SITE EROSION AND SEDIMENTATION CONTR MEASURES ARE DESIGNED TO PREVENT THE LOSS OF SEDIMENTS FROM THE SITE. DURING INITIAL GRADING OPERATIONS, NEW PERIMETER SILT FENCING AND SEDIMENT TRAPS WILL BE UTILIZED TO PROTECT DOWNSTREAM AREAS. DURING LATER PHASES OF CONSTRUCTION, PERIMETER DEVICES SUCH AS SILT FENCING, SEDIMENT TRAPS, AND DISTURBED AREA STABILIZATION (SODDING) WILL PREVENT THE TRANS-PORT OF SEDIMENTS BY RUN-OFF.
10. MAJOR TOPOGRAPHIC FEATURES, STREAMS, SOIL TYPES & VEGETATION: RUN-OFF FROM THE SITE EXITS THE DISTURBED AREA VIA OVERLAND FLOW TO EXISTING DRAINAGE STRUCTURES. AN EXISTING, MASTER STORMWATER DETENTION POND IS LOCATED ON SITE.
11. TREE SAVE REQUIREMENTS: THERE ARE NO TREE SAVE AREAS PROPOSED.
12. DOWN SLOPE DRAINS WITH EROSION CONTROL MATTING CAN BE REQUIR PER ON-SITE INSPECTION.

DRAWING INDEX

NO.	TITLE	DATED	REVISION NO.	REVISION DATE
C-1	COVER SHEET (SCALE: N.T.S)	1/17/14	1	2/26/14
	LOCATION AND TOPOGRAPHIC SURVEY – BY OTHERS	11/12/13		
C-2	DEMOLITION & EROSION CONTROL PLAN (SCALE: 1" = 20')	1/17/14	1	2/26/14
C-3	SITE LAYOUT PLAN (SCALE: 1" = 20')	1/17/14	1	2/26/14
C-4	SITE UTILITY PLAN (SCALE: 1" = 20')	1/17/14	1	2/26/14
C-5	SITE GRADING PLAN (SCALE: 1" = 20')	1/17/14	1	2/26/14
C-6	CONSTRUCTION DETAILS (SCALE: AS NOTED)	1/17/14	1	2/26/14
C-7	CONSTRUCTION DETAILS (SCALE: AS NOTED)	1/17/14	1	2/26/14
C-8	CONSTRUCTION DETAILS (SCALE: AS NOTED)	1/17/14	1	2/26/14

ANTICIPATED ACTIVITY SCHEDULE



NOTE: ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE: THE BURIAL AND BURNING OF CONSTRUCTION AND LAND CLEARING DEBRIS IS NOT ALLOWED ON SITE.

NOTE: EROSION AND SEDIMENT CONTROL DEVICES AS WELL AS TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.

NOTE: SEDIMENT/EROSION CONTROL DEVICES SHALL BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES SHALL BE INSTALLED IF NEW FLOW CHANNELS HAVE DEVELOPED.

NOTE: DISTURBED AREAS SHALL BE CONTROLLED VIA BEST MANAGEMENT PRACTICES IN ORDER TO PROPERLY STABILIZE THE SITE. IF A DISTURBED AREA IS NOT TO FINAL GRADE, THE SITE MUST BE ESTABLISHED WITH TEMPORARY VEGETATION. DISTURBED AREAS LEFT IDLE FOR FOURTEEN (14) DAYS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.

NOTE: ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED BY THE ENGINEER AND COLUMBIA COUNTY.

NOTE: WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMILY SPREAD OVER SEEDED AREA WITHIN TWENTY-FOUR (24) HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. ON SLOPES THAT ARE GREATER THAN 2:1 MULCH, IF USED, WILL BE SECURED.

NOTE: DOWN SLOPE DRAINS WITH EROSION CONTROL MATTING CAN BE REQUIRED PER ON-SITE INSPECTION.

NOTE: THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

NOTE: EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

C-1

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 100
LAWRENCEVILLE, GEORGIA 300-3
PHONE: (770) 491-7550 FAX: (770 491-7750

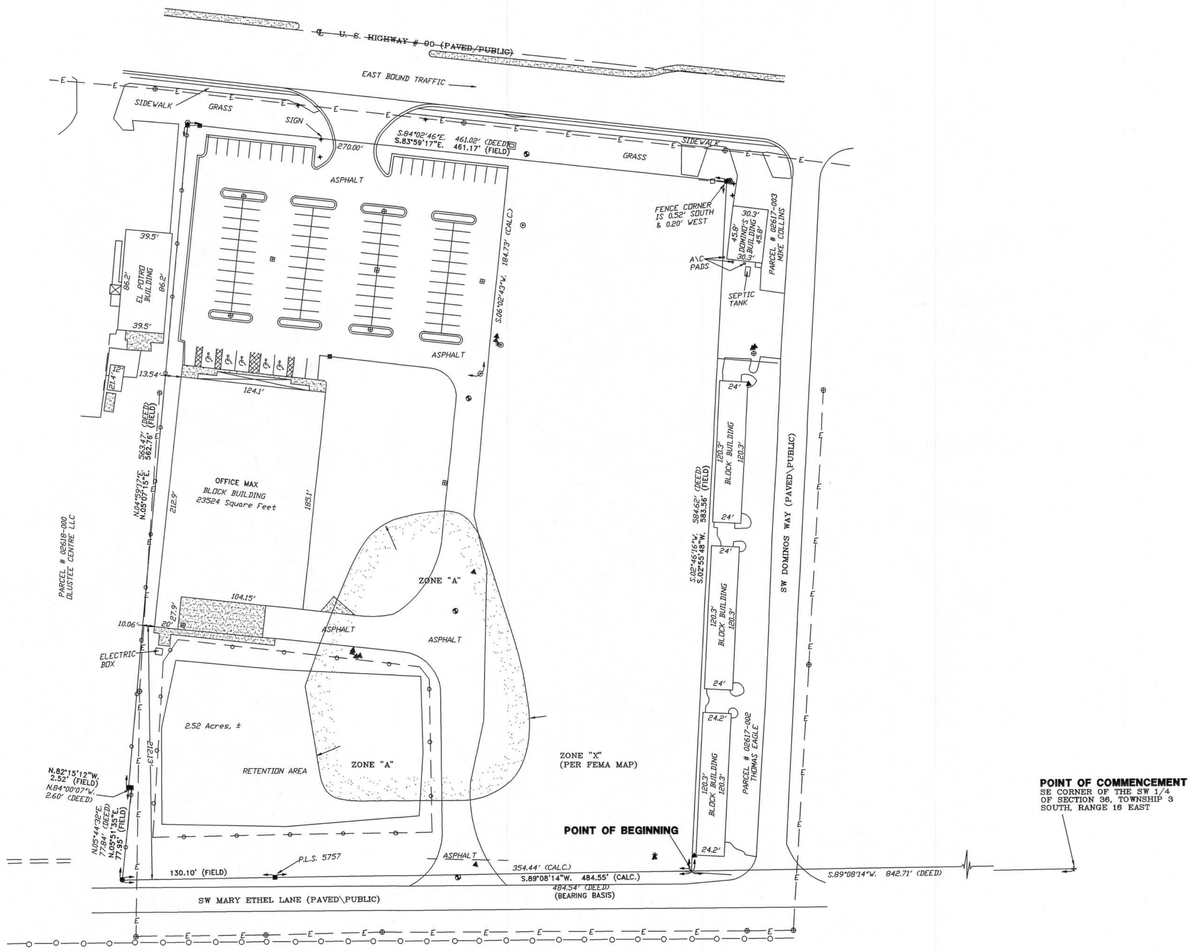
MATTRESS FIRM
SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS | Des. JBS | Chk. RCL | Date 1/17/14 | Sheet 2013-416

A BOUNDARY SURVEY IN:

SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST

COLUMBIA COUNTY, FLORIDA



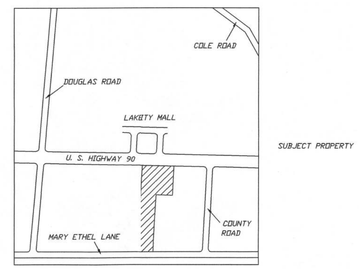
SCALE: 1" = 60'

GRAPHIC SCALE

0 15 30 60 120

SYMBOL LEGEND:

- ■ 4"X4" CONCRETE MONUMENT FOUND
- □ 4"X4" CONCRETE MONUMENT SET
- ● IRON PIPE FOUND
- ○ IRON PIN AND CAP SET
- ✕ "X" CUT IN PAVEMENT
- + CALCULATED PROPERTY CORNER
- ⊙ NAIL & DISK
- ⊙ POWER POLE/LIGHT POLE
- ⊙ SIGN POST
- ▲ WATER METER OR VALVE
- ⊙ UTILITY BOX
- ⊙ WELL
- ⊙ SANITARY MANHOLE
- ⊞ STORM DRAIN
- N/F NOW OR FORMERLY
- ℄ CENTERLINE
- SECTION LINE
- ELECTRIC LINES
- WIRE FENCE
- CHAIN LINK FENCE
- WOODEN FENCE
- (PLAT) AS PER A PLAT OF RECORD
- (DEED) AS PER A DEED OF RECORD
- (CALC.) AS PER CALCULATIONS
- (FIELD) AS PER FIELD MEASUREMENTS
- P.R.M. PERMANENT REFERENCE MARKER
- P.C.P. PERMANENT CONTROL POINT



LOCATION SKETCH

NOT TO SCALE

DESCRIPTION:
SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EA
COMMENCE AT THE SE CORNER OF THE SW 1/4; SAID SECTION 36, AND THENCE S.89°08'14"W., ALONG THE SOUTH LINE OF SAID SW 1/4, 842.71 FEET TO THE PT OF BEGINNING; THENCE CONTINUE S.89°08'14"W., ALONG SAID SOUTH LINE, 484.54 FEET; THENCE N.07°44'32"E., 77.81(EET); THENCE N.84°00'07"W., 2.60 FEET; THENCE N.04°57'17"E., ALONG AN AGREED UPON LINE AS RECORDED IN OFFIC RECORDS BOOK 417, PAGES 102-104 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, 563.47 FEET TO : SOUTH RIGHT-OF-WAY LINE OF STATE ROAD # 10 (U.S. HWY # 90); THENCE S.84°00'46"E., ALONG SAID SOUTH RIGHF-WAY LINE, 461.02 FEET; THENCE S.02°46'16"W., 584.62 FEET TO THE POINT OF BEGINNING.

SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATIOFOUND.
2. BEARINGS ARE BASED ON A DEED (RECORD AND THE BEARING BASIS AS SHOWN HEREON.
3. IT IS APPARENT THAT SOME PORTIS OF THIS PARCEL ARE IN ZONE "A" AND MAY BE SUBJECT TO FLOODING. HOWEVER,' BASE FLOOD ELEVATION HAS BEEN DETERMINED FOR ZONE "A". SOME PORTIONS OF THISARCEL ARE IN ZONE "X" AND ARE DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLA AS PER FLOOD INSURANCE RATE MAP, DATED 4 FEBRUARY, 2009 FIRM PANEL NO. 12023291C. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICID ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWHEREON.
5. IF THEY EXIST, NO UNDERGROUND ERDACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEON.
6. THIS SURVEY WAS COMPLETED WITOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
7. DIMENSIONS SHOWN HEREON ARE INEET AND DECIMAL PARTS THEREOF.
8. THIS SURVEYE DOES NOT REFLECT \DETERMINE OWNERSHIP.
9. THE ADJACENT OWNERSHIP INFORMOIN AS SHOWN HEREON IS BASED ON THE COUNTY PROPERTY APPRAISERS GIS SYSTE.UNLESS OTHERWISE DENOTED.

BRITT SURVEYING & MAPPING, LLC

LAND SURVEYORS AND MAPPERS, L.B. # 8016
2086 SW MAIN BLVD. SUITE. 112
LAKE CITY, FLORIDA 32025
TELEPHONE: (386) 752-7163 FAX: (386) 752-5573 www.brittsurvey.com

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

11/12/13
DRAWING DATE

L. SCOTT BRITT, P.S.M.
LICENSE NUMBER 6572

10/29-11/7/13
FIELD SURVEY DATE

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

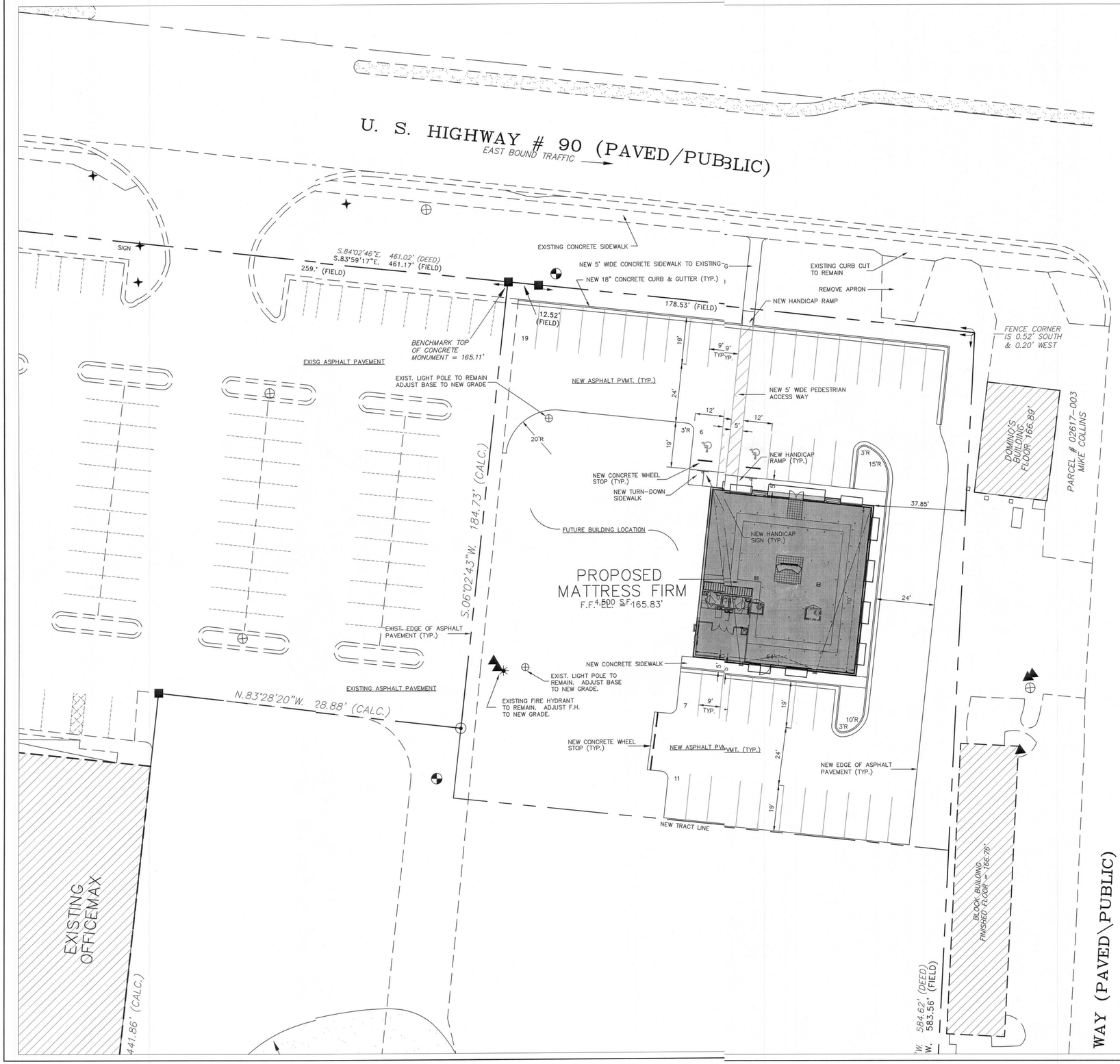
CERTIFIED TO:

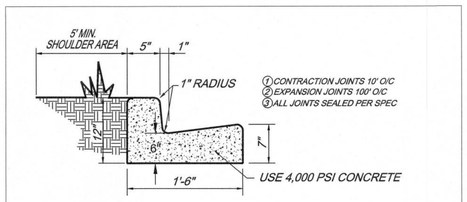
FIELD BOOK: 339 PAGE(S): 47-48

JOB NUMBER: L-22845

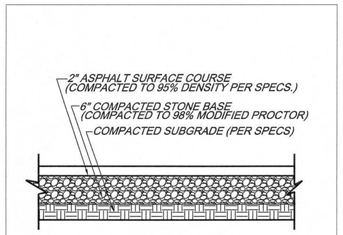
SHEET 1 OF 1

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16





18" CONCRETE CURB & GUTTER DETAIL



ASPHALT PAVEMENT SECTION

* PAVEMENT SECTION PROVIDED BY OWNER

SITE LAYOUT PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

R. CLAY LEWIS LICENSE No. 52896 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/26/14

C-2

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 100
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX (770) 491-7750

MATTRESS FIRM

SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013-416

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16

U. S. HIGHWAY # 90 (PAVED/PUBLIC)

EAST BOUND TRAFFIC →

MAGNOLIA

SIGN

EXIST. 24" RCP

EXISTING STORM SEWER INLET

NORTH 24" RCP INV = 160.73'

BENCHMARK TOP OF CONCRETE MONUMENT = 165.11'

PROVIDE 3 EA. – 4" PVC CONDUITS FOR UTILITIES

4" 4" 4"

EXIST. LIGHT POLE TO REMAIN ADJUST BASE TO NEW GRADE

DOMINO'S BUILDING FLOOR 166.89'

PARCEL # 02617-003 MIKE COLLINS

WEST 12" HDPE INV = 160.64

WEST 12" HDPE INV = 160.40'

EAST 12" HDPE INV = 160.33'

SOUTH 24" HDPE INV = 160.38'

EAST 12" HDPE INV = 160.40'

COULD NOT LOCATE CONNECTION

PROPOSED MATTRESS FIRM
F.F. EL. = 165.83'

EXIST. LIGHT POLE TO REMAIN

EXISTING FIRE HYDRANT TO REMAIN

NEW 6" PVC SANITARY SEWER LINE @ 1.00% MIN. SLOPE

EXIST. UN. SEWER M.H.
RIM ELI = 165.52'
WEST 8"PVC
ELEV =161.42'
SOUTH 2" PVC
ELEV =155.80'

NEW 6" PVC SANITARY SEWER LINE @ 1.00% MIN. SLOPE

NEW CLEAN OUT

6"SS 6"SS 1"W

NEW CLEAN OUT

NEW TRACT LINE

NEW 1" TYPE "K" COPPER DOMESTIC WATER LINE

SS 1"W

NTH 24" HDPE
II = 160.02'
ST 24" HDPE
II = 160.27'
9TH 24" HDPE
II = 160.16'

12" PVC INV = 160.82'

66.33' 165.1'

MATCH LINE

BLOCK BUILDING FINISHED FLOOR = 166.76'

WAY (PAVED\PUBLIC)

SITE UTILITY PLAN

GRAPHIC SCALE

20 0 10 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MATCH LINE

SS

NEW 1" TYPE "K" COPPER DOMESTIC WATER LINE

EXIST. SAN. SEWER M.H.
RIM ELEV = 165.29'
WEST 6" PVC
ELEV = 161.69'
NORTH 12" PVC
ELEV = 157.17'
SOUTH 12" PVC
ELEV = 157.11'

PHALT

1"W

SS

ZONE "X"
(PER FEMA MA

EXIST. SAN. SEWER M.H.
RIM ELEV = 164.52'
WEST 12" PVC
ELEV = 154.00'
NORTH 12" PVC
ELEV = 155.96'
EAST 12" PVC
ELEV = 154.02'

ASPHALT

NEW 1" TYPE "K" COPPER DOMESTIC WATER LINE

NEW 3/4" DOMESTIC WATER METER WITH BACKFLOW PREVENTER

6"W

APPROX. LOCATION, EXISTING 6" WATER LINE

FIELD LOCATE AND VERIFY SIZE, TYPE LOCATION OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION.

C–3

R. CLAY LEWIS LICENSE No. 52896 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/26/14

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 10
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX: (770) 91-7750

MATTRESS FIRM

SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013-416

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16

U. S. HIGHWAY # 90 (PAVED/PUBLIC)

EAST BOUND TRAFFIC

NORTH

LEGEND

165	PROPOSED CONTOUR
165	EXISTING CONTOUR
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
165.00 +	PROPOSED SPOT ELEVATION
D.I.	DROP INLET
J.B.	JUNCTION BOX
C.I.	CURB INLET

T/W – TOP WALL EL. +H.P. – HIGH POINT
B/W – BOTTOM WALL EL. T.B.R. – TO BE REMOVED

EXIST. 24" RCP
NORTH 24" RCP INV = 160.73'
EXISTING STORM SEWER INLET
LIMITS OF DISTURBANCE
FINE GRADE AREA TO PROVIDE POSITIVE DRAINAGE TO INLET & NEW CURB
SIGN
BENCHMARK TOP OF CONCRETE MONUMENT = 165.11'
D.I. A-3 INV. EL. = 160.59'
33 L.F. 15" RCP @ 0.20%
J.BI. A-2 INV. EL. = 160.52'
66 L.F. 15" RCP @ 0.20%
D.I. A-4 INV. EL. = 160.72'
66 L.F. 15" RCP @ 0.20%
D.I. A-5 INV. EL. = 160.85'
62 L.F. 15" RCP @ 0.20%
NEW JUNCTION BOX A-1 ON EXISTING LINE/STUB. VERIFY SIZE & TYPE OF EXIST. STUB PRIOR TO DISTURBANCE. REPLACE STUB WITH 15" RCP IF REQD. APPROX. INV. EL. = 160.40'
COULD NOT LOCATE CONNECTION
SAW-CUT & PATCH PVMT.
WEST 12" HDPE INV = 160.64
EAST 12" HDPE INV = 160.33'
SOUTH 24" HDPE INV = 160.38'
WEST 12" HDPE INV = 160.40'
EAST 12" HDPE INV = 160.40'
PROPOSED MATTRESS FIRM
F.F. EL. = 165.83'
SPLASH ROOF DRAINS ON GRADE. SEE ARCH. FOR SIDEWALK/C DRAINAGE CHANNEL THROUGH S/ SIDEWALK DETAIL
LIMITS OF DISTURBANCE
NEW TRACT LINE
RTH 24" HDPE I = 160.02'
ST 24" HDPE I = 160.27'
UTH 24" HDPE I = 160.16'
12" PVC INV = 160.82'
DOMINO'S BUILDING FLOOR 166.89
PARCEL # 02617-003 MIKE COLLINS
BLOCK BUILDING FINISHED FLOOR = 166.78'
WAY (PAVED\PUBLIC)
66.33'
185.1'

SITE GRADING PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

R. CLAY LEWIS LICENSE No. 52896 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/26/14

C-4

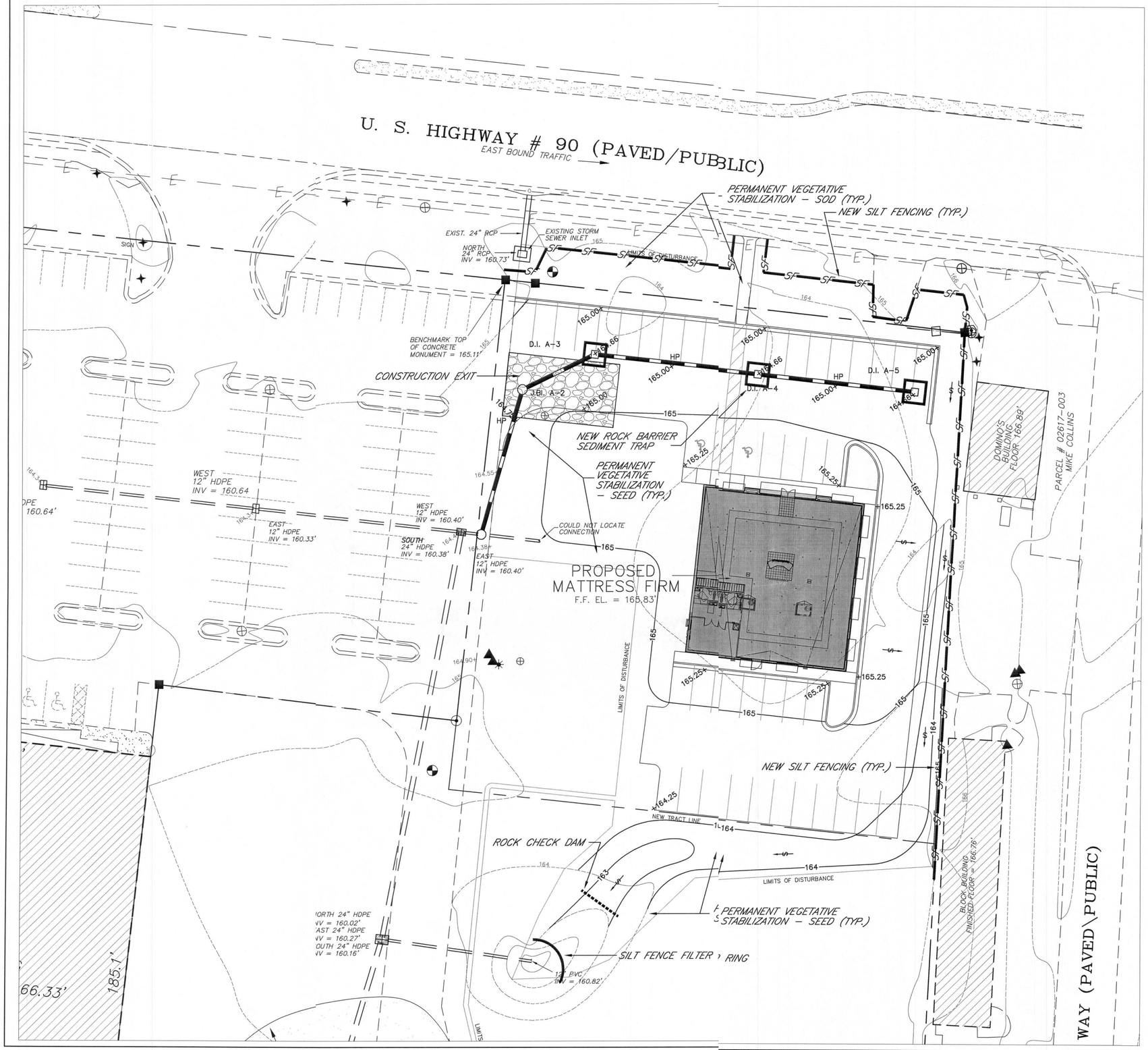
HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 10
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX: (770) 491-7750

MATTRESS FIRM

SECTION 36, TOWNSHIP 3 SOUTH, RANGE 1E EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013-416

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16



LEGEND

165	PROPOSED CONTOUR
165	EXISTING CONTOUR
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
165.00 +	PROPOSED SPOT ELEVATION
D.I.	DROP INLET
J.B.	JUNCTION BOX
C.I.	CURB INLET
T/W – TOP WALL EL.	+H.P. – HIGH POINT
B/W – BOTTOM WALL EL.	T.B.R. – TO BE REMOVED

EROSION, SEDIMENT & POLLUTION CONTROL PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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1/26/14

C–5

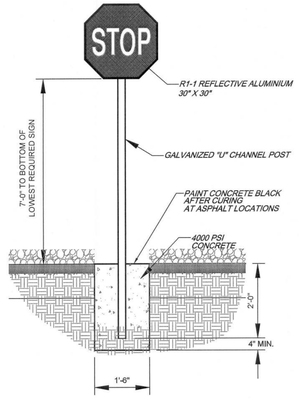
HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 00
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491–7550 FAX: (770) 491–7750

MATTRESS FIRM

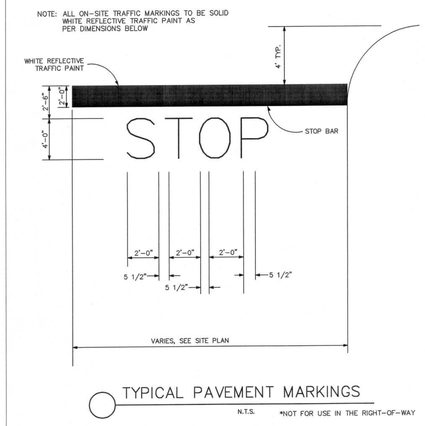
SECTION 36, TOWNSHIP 3 SOUTH, RANGE 6 EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013–416

REVISIONS			
NO.	BY	DESCRIPTION	DATE
1	JBS	GENERAL	2/16

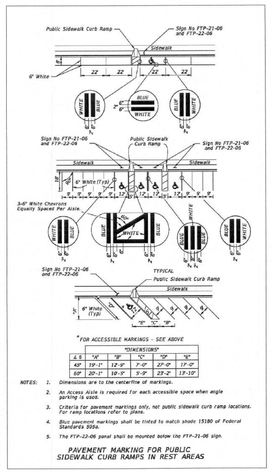


STOP SIGN DETAIL



TYPICAL PAVEMENT MARKINGS

N.T.S. *NOT FOR USE IN THE RIGHT-OF-WAY

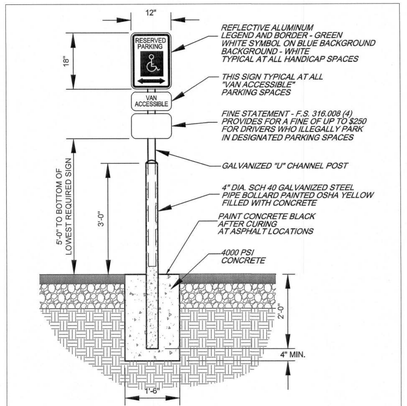


* FOR ACCESSIBLE MARKINGS - SEE ABOVE

"DIMENSIONS"					
A & H	"B"	"D"	"C"	"E"	"G"
45°	19'-1"	12'-9"	7'-9"	27'-9"	17'-3"
60°	20'-1"	10'-9"	9'-9"	23'-3"	13'-10"

NOTES:
1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Blue pavement markings shall be tinted to match shade 15180 of Federal Standard 595a.
5. The FTP-22-05 panel shall be mounted below the FTP-21-06 sign.

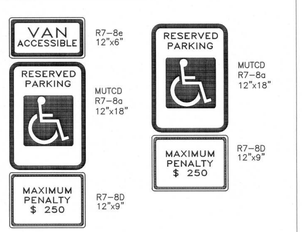
PAVEMENT MARKING FOR PUBLIC SIDEWALK CURB RAMPS IN REST AREAS



HANDICAP PARKING SIGN

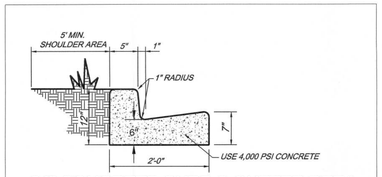
ONE AT EACH HANDICAP SPACE.

Each handicap parking space must be posted with a permanent above-grade sign of a color and design approved by the Department of Transportation, which is placed on or at a distance of 84 inches above the ground to the bottom of the sign and which bears the international symbol of accessibility meeting the requirements of ADAAG s. 4.30.7 and the caption "PARKING BY DISABLED PERMIT ONLY." Such a sign erected after October 1, 1996, must indicate the penalty for illegal use of the space.



HANDICAP PARKING SIGN DETAIL

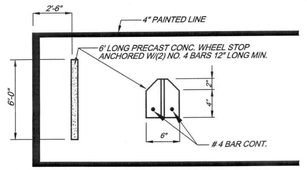
N.T.S.



24" CONCRETE CURB & GUTTER DETAIL

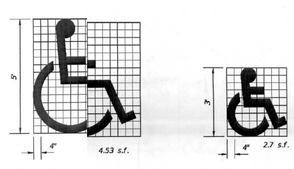
1. CONTRACTION JOINTS 10' O/C
2. EXPANSION JOINTS 100' O/C
3. ALL JOINTS SEALED PER SPEC

* DETAIL FOR USE ON SITE NLY



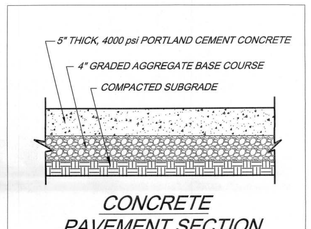
NOTE: SEE SITE PLAN FOR PARKING SPACE SIZE AND FOR WHEEL STOP LOCATIONS. PAINT WHEEL STOPS OSHA YELLOW

CONCRETE WHEEL STOP DETAIL



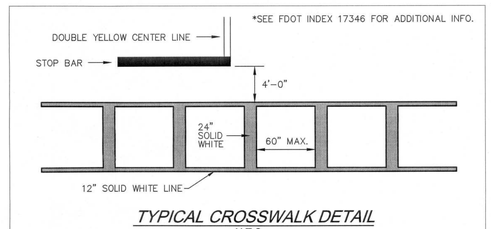
Use of pavement symbol in accessible parking spaces is optional, when used the symbol shall be 3' or 5' high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY



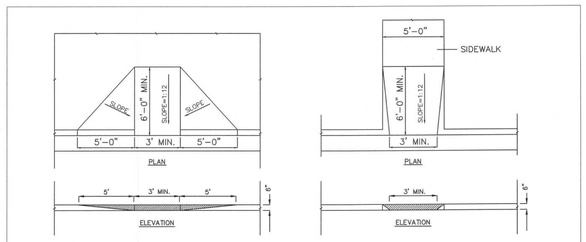
CONCRETE PAVEMENT SECTION

* CONCEPTUAL PAVEMENT SECTION ONLY. GEOTECH ENGINEER SHALL INSPECT TYPE, DEPTH AND CONDITION OF EXISTING BASE MATERIALS AFTER STRIPPING OF WEARING COURSE TO DETERMINE FINAL PAVING REQUIREMENTS.



TYPICAL CROSSWALK DETAIL

N.T.S.

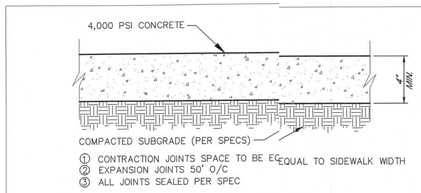


NOTES:
1. SURFACES ALONG ACCESSIBLE ROUTES SHALL BE SLIP RESISTANT.
2. MAXIMUM SLOPE OF FLARED SIDE SHALL BE 1V:10H.
3. CURB RAMPS SHALL HAVE A DETECTABLE WARNING TEXTURE EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP, INCLUDING FLARES.
4. BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.

HANDICAP RAMP DTAIL

N.T.S.

* DETAIL FOR USE ON SITE ONLY



1. CONTRACTION JOINTS SPACE TO BE EQ
2. EXPANSION JOINTS 50' O/C
3. ALL JOINTS SEALED PER SPEC

SIDEWALK DETAIL - FOR USE ONSITE ONLY

R. CLAY LEWIS LICENSE No. 52896 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/26/14

C-6

CONSTRUCTION DETAILS

SCALE: AS NOTED

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 100
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX: 770) 491-7750

MATTRESS FIRM

SECTION 36, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013-416

DEFINITION:
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE:

1. TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
2. TO REDUCE THE PRESENCE OF AIRBORN SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS:
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

1. EMPORARY MEASURES:
   MULCHES
   VEGETATIVE COVER
   SPRAY-ON ADHESIVES
   TILLAGE
   IRRIGATION
   BARRIERS
   CALCIUM CHLORIDE
2. ERMANENT METHODS:
   PERMANENT VEGETATION
   – SEED AND/OR SOD
   TOPSOILING
   STONE

DUST CONTROL ON DISTURBED AREA

N.T.S.

OTHER CONTROLS:

ORDERLY CONSTRUCTION SITE:

AN ORDERLY CONSTRUCTION SITE IS ONE OF THE FIRST STEPS TOWARDS PREVENTING STORM WATER CONTAMINATION. A CLEAN AND ORDERLY CONSTRUCTION SITE REDUCES THE POSSIBILITY OF ACCIDENTAL SPILLS, IMPROVES RESPONSE TIME IF THERE IS A SPILL AND REDUCES SAFETY HAZARDS AS WELL. THE FOLLOWING BASIC CONCEPTS SHALL BE IMPLEMENTED:

(1) NEAT AND ORDERLY STORAGE OF ANY CHEMICALS, PESTICIDES, FERTILIZERS, FUELS, ETC., THAT ARE BEING STORED AT THE SITE
(2) REGULAR GARBAGE, CONSTRUCTION WASTE AND SANITARY WASTE DISPOSAL OFF SITE IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS.
(3) PROMPT CLEANUP OF ANY SPILLS THAT HAVE OCCURRED OF LIQUID OR DRY MATERIALS
(4) PROMPT CLEANUP OF ANY SEDIMENTATION THAT HAS OCCURRED ONTO NEARBY ROADWAYS

WASTE DISPOSAL:

PROPER MANAGEMENT AND DISPOSAL OF BUILDING MATERIALS AND OTHER CONSTRUCTION SITE WASTES SHALL INCLUDE:

(1) SELECT A DESIGNATED WASTE COLLECTION AREA ONSITE
(2) PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER PRIOR TO A RAINFALL EVENT
(3) WHEN POSSIBLE, LOCATE CONTAINERS IN A COVERED AREA
(4) WASTE COLLECTION AND DISPOSAL SHOULD OCCUR BEFORE THE CONTAINERS OVERFLOW
(5) ENSURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS
(6) PROVIDE IMMEDIATE CLEANUP OF CONTAINERS THAT OVERFLOW OR IF A SPILL OCCURS
(7) PROVIDE DAILY INSPECTIONS OF WASTE COLLECTION AREAS.

HAZARDOUS PRODUCTS:

MATERIALS WHICH SHOULD BE CONSIDERED HAZARDOUS MAY INCLUDE BUT ARE NOT LIMITED TO: (PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, CONCRETE CURING COMPOUNDS AND PETROLEUM PRODUCTS)

PROPER MANAGEMENT AND DISPOSAL PRACTICES OF HAZARDOUS MATERIALS SHALL INCLUDE:

(1) CHECK WITH LOCAL WASTE MANAGEMENT AUTHORITIES TO DETERMINE WHAT THE REQUIREMENTS ARE FOR DISPOSING OF HAZARDOUS MATERIALS
(2) USE ALL OF THE PRODUCT BEFORE DISPOSING OF THE CONTAINER
(3) DO NOT REMOVE THE ORGINAL PRODUCT LABEL FROM THE CONTAINER
(4) DO NOT MIX PRODUCTS TOGETHER UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER
(5) THE CORRECT METHOD OF DISPOSAL OF THESE PRODUCTS VARIES WITH THE PRODUCT USED. FOLLOW THE MANUFACTURER'S RECOMMENDED METHOD

CONTAMINATED SOILS:

CONTAMINATED SOILS ARE SOILS WHICH HAVE BEEN EXPOSED TO AND STILL CONTAIN HAZARDOUS SUBSTANCES. CONTAMINATED SOILS MAY BE ENCOUNTERED ONSITE DURING EARTH MOVING ACTIVITIES OR DURING THE CLEANUP OF A SPILL OR LEAK OF A HAZARDOUS PRODUCT.

CONTACT THE STATE AND LOCAL SOLID WASTE REGULATORY AGENCY CONCERNING INFORMATION AND PROCEDURES NECESSARY TO TREAT OR DISPOSE OF CONTAMINATED SOILS.

CONCRETE TRUCKS:

EMPTYING OR WASH OUT OF EXCESS CONCRETE MAY BE ALLOWED ONSITE. EXCESS CONCRETE AND WASH WATER SHOULD BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN THESE MATERIALS AND STORM WATER WHICH WILL BE DISCHARGED FROM THE SITE.

PROPER MANAGEMENT AND DISPOSAL PRACTICES OF CONCRETE TRUCK WASH OUT SHALL INCLUDE:

(1) DIKES SHALL BE CONSTRUCTED AROUND THE AREA TO CONTAIN THESE MATERIALS UNTIL THEY EY HARDEN, AT WHICH TIME THEY MAY BE PROPERLY DISPOSED OF.

SANITARY / SEPTIC DISPOSAL:

SANITARY FACILITIES FOR ONSITE PERSONNEL SHALL BE PORTABLE FACILITIES THAT STORE THE SANITARY WASTES AND SHOULD BE EMPTIED PERIODICALLY. SANITARY WASTES THAT ARE GENERATED ONSITE SHOULD BE TREATED OR DISPOSED OF IN ACCORDANCE WITH STATE AND OR LOCAL REQUIREMENTS.

PROPER MANAGEMENT AND DISPOSAL PRACTICES OF SANITARY / SEPTIC MATERIALS SHALL INCLUDE:

(1) DOMESTIC WASTE HAULERS SHOULD BE CONTRACTED TO REGULARLY REMOVE THE SANITARY AND SEPTIC WASTES AND TO MAINTAIN THE FACILITIES IN GOOD WORKING ORDER. THIS WILL PREVENT OVERLOADING OF THE SYSTEM WHICH COULD ALLOW DISCHARGES TO STORM WATER RUNOFF.
(2) WASTES SHOULD BE TREATED TO THE APPROPRIATE LEVEL PRIOR TO DISCHARGE.
(3) UNTREATED, RAW SEWAGE OR SEPTAGE SHOULD NEVER BE DISCHARGED OR BURIED ONSITE.

THE LOCAL AND STATE REGULATORY AGENCIES SHOULD BE CONTACTED FOR ADDITIONAL DISPOSAL AL REQUIREMENTS.

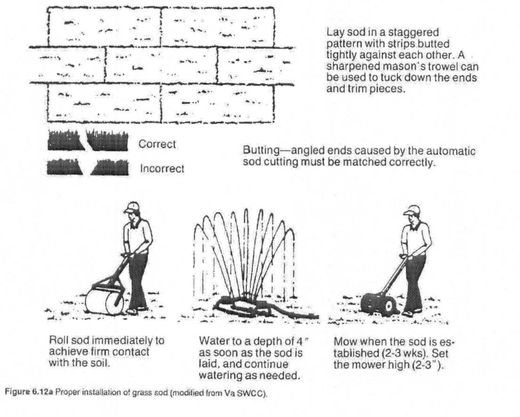


Figure 6.12a Proper installation of grass sod (modified from Va SWCC).

PERMANENT VEGETATION - SOD

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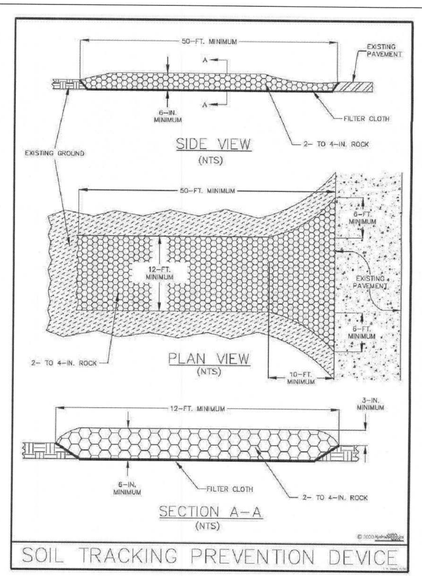

Figure V-14: Illustration of a Soil Tracking Prevention Device

CONSTRUCTION EXIT DETAIL

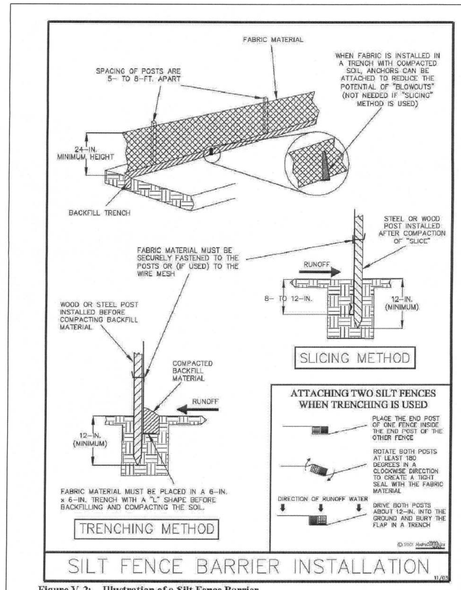

Figure V-2: Illustration of a Silt Fence Barrier

SILT FENCE DETAIL

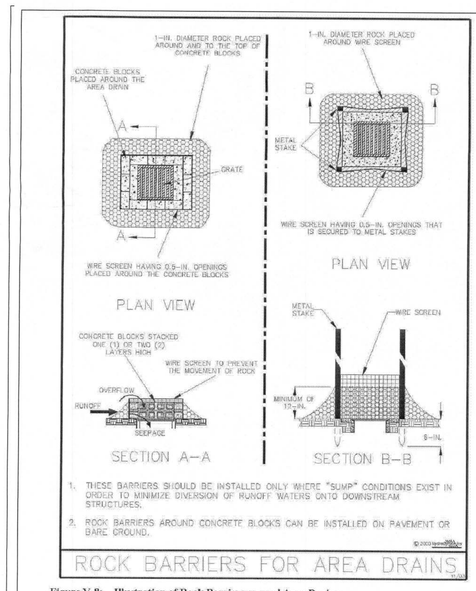

Figure V-8: Illustration of Rock Barriers around Area Drains

ROCK DONUT INLET PROTECTION

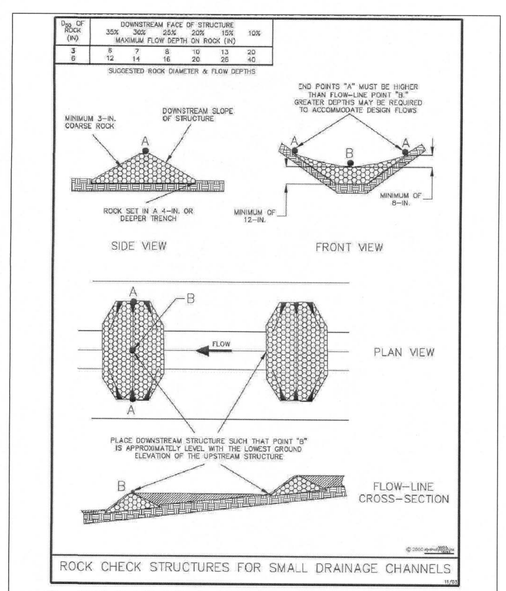

Figure III-11: Rock Check Structures in Small Drainage Channels

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ROCK CHECK DAM DETAIL

CONSTRUCTION DETAILS

SCALE: AS NOTED

C-7

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2/26/14

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 100
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX: (770) 491-7750

MATTRESS FIRM
MARTIN LUTHER KING BLVD.
CITY OF NEW BERN, TOWNSHIP #8, CRAVEN COUNTY, N.C.

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 203-415

Permanent Vegetation:

1. Permanent Seeding

All areas, which have been disturbed by the construction, will, as a minimum, be seeded. Seed shall have minimum 90% purity and 85% germination as indicated on label. If necessary, the application of amendments, such as dolomitic limestone will be used to correct the Ph factor to within the limits of 6.0–7.0.
The grass seed shall be uniformly spread at the following rates while the soil is moist:

Bahia grasses	10 lb/1000 ft2
Bermuda grass	2 lb/1000ft2 (hulled) or 4 lb/1000 ft2 (un-hulled)
Carpet grass	2 lb/1000ft2
Centipede ass	2 lb/1000ft2

The grass seed mixture shall include the addition of 30 parts rye in the winter season. Soils should be scarified prior to seeding and rolled after seeding to achieve a uniform firm planting bed and reduce erosion. Any fertilization shall conform to label rates or recommended rates supplied by County Extension Service based on site-specific soil test.

2. Permanent Seeding and Mulching

In addition to the minimum requirement of A. above, slopes of 6:1 to 4:1 inclusive will be mulched with a uniform thickness of approximately 2 inches, loose measure, of mulch material incorporated into the soil by mixing to a depth of 4 inches.

3. Permanent Sodding

All retention/detention basins shall be sodded within their limits. All exposed areas within public Rights-of-Way will be solid sodded. Other areas with slopes steeper than 4:1 will be sodded.

4. Strip Sodding

Strip sod shall be placed adjacent to all curbs, walks and pavements.

5. Regrassing

All grassed areas will be maintained to assure a good stand and sufficient ground cover to minimize erosion. If, after 60-days an adequate ground cover has not been established, the area will be re-grassed.

6. Additional Fertilization and Soil Amendments

Grassed areas not accepted within 90-days of their completion shall require soil test to determine soil amendments or proper fertilizer application required for establishment of turf grass. Soil amendments of fertilizer will be used as needed to establish the turf grass.

Teorary Protection:

1. mporary Seeding

Ars opened by construction operations and that arnot anticipated to be dressed and receive fingrassing treatment within thirty-days shall be seed with a quick growing grass species wh will provide an early cover during the season in ich it is planted, and will not later caete with the permanent grassing. The rate of seng shall be a minimum of 30 pounds per acre.

2. mporary Seeding and Mulching

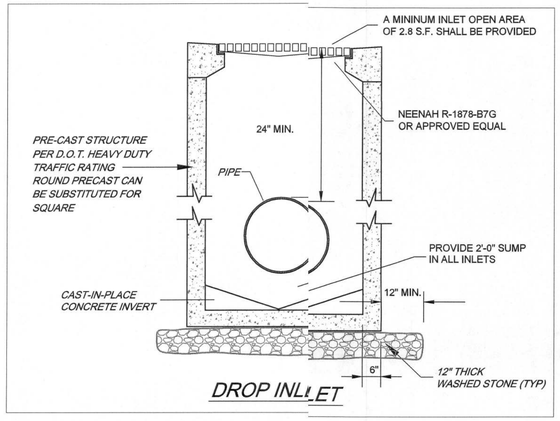
Sles steeper than 6:1 that fall within the category esilished in note A. above shall additionally receive rning of approximately 2 inches loose measure of mn material cut into the soil of the seeded area to depth of 4 inches.

3. mporary Grassing

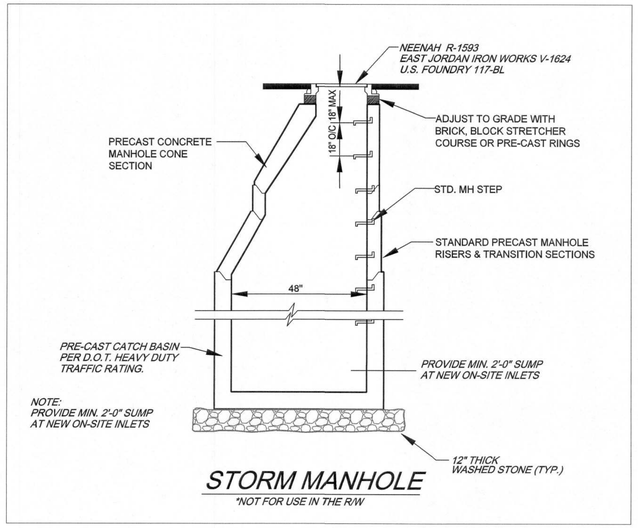
Thseeded or the seeded and mulched area(s) shall beilled and watered as required to assure opum growing condition for the establishment of a od grass cover.

4. 'emporary Regrassing

If, ifter fourteen-days, the temporary grassed ars have not attained a minimum of 75% go grass cover, the area will be reworked and adonal seed applied sufficient to establish the deed vegetation cover.



DROP INLET



STORM MANHOLE

*NOT FOR USE IN THE R/W

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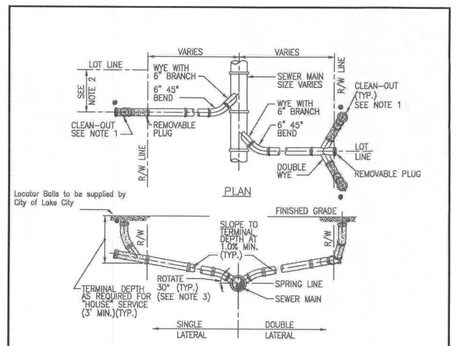
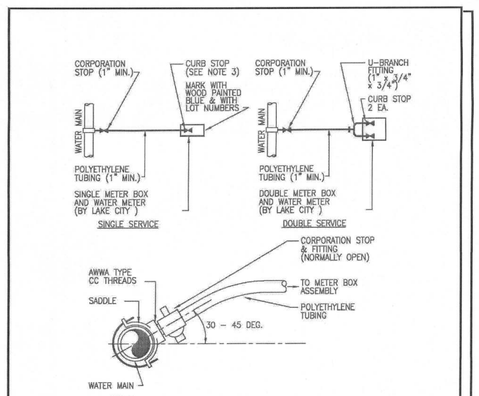


NOTES:
1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUIR IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE, 25' MAXIMUM.
3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
4. SERVICE LATERALS SHALL HAVE A MINIMUM 18" OF COVER BETWEEN R/W TIE-IN AND BUILDING.
5. INDENT CURB WITH 'S' AT EACH SEWER SERVICE LOCATION.

				CITY OF IE CITY	
				SANITARY SECE DETAIL	
Date	Revisions	Appr. by	Date: Sept. 1996	Scale: N.	Dwg: Q204 Fig: 204



NOTES:
1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" X 2" X 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE LOT(S) TO BE SERVED.
4. INDENT CURB WITH "W" AT EACH WATER SERVICE LOCATION

				CITY OF LAKE CITY	
				WATER SERVICE CONNECTION DETAILS	
Date	Revisions	Appr. by	Date: Sept. 1996	Scale: N.T.S.	Dwg: Q405 Fig: 405

CONSTRUCTION DETAILS

SCALE: AS NOTED

C-8

R. CLAY LEWIS LICENSED No. 52896 FLORIDA PROFESSIONAL ENGINEER

2/26/14

HAINES, GIPSON & ASSOCIATES, INC.
CONSULTING ENGINEERS
1550 NORTH BROWN RD., SUITE 101
LAWRENCEVILLE, GEORGIA 30043
PHONE: (770) 491-7550 FAX: (770) 491-7750

MATTRESS FIRM

MARTIN LUTHER KING BLVD.
CITY OF NEW BERN, TOWNSHIP #8, CRAVEN COUNTY, N.C.

Drn. JBS	Des. JBS	Chk. RCL	Date 1/17/14	Sheet 2013-415