



August 24, 2015

MEMORANDUM

TO: District Board of Trustees
FROM: Jim Murdaugh, President 
SUBJECT: Phase III Document Approval for the Gadsden Center project.

Item Description

This item requests Board of Trustees approval of the Phase III Construction Documents for the Gadsden Center project.

Overview and Background

Florida Statutes state that a Florida College System institution's board must approve the Phase III construction documents. In the case of the Gadsden Center, it was necessary to revise the construction documents after the preparation of the Guaranteed Maximum Price.

The project team revised the building structure from masonry bearing walls to a pre-engineered metal building frame in order to reduce cost. Although the building plans and elevations previously presented to the Board did not change, numerous other details in the construction documents were revised.

The construction documents have been reviewed by the College's technical staff for conformance with TCC standards and Building Code review is complete.

Past Actions by the Board

The Board approved the Guaranteed Maximum Price for the Gadsden Center project at the April 20, 2015 meeting.

Funding/Financial Implications

Funds for this project were provided from Fund Three - Auxiliary Services reserves.

Staff Resource

Barbara Wills

Recommended Action

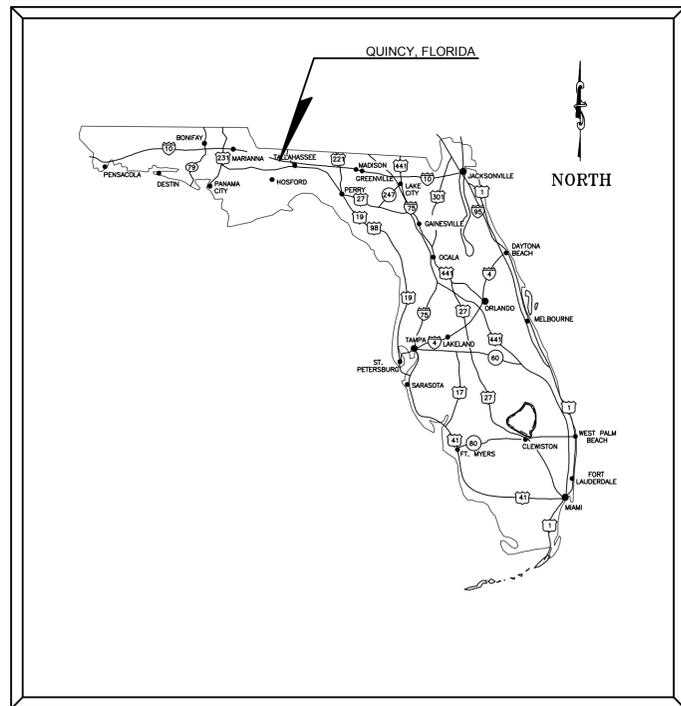
Approve the Phase III construction documents for the Gadsden Center project.

100% CONSTRUCTION
DOCUMENTS

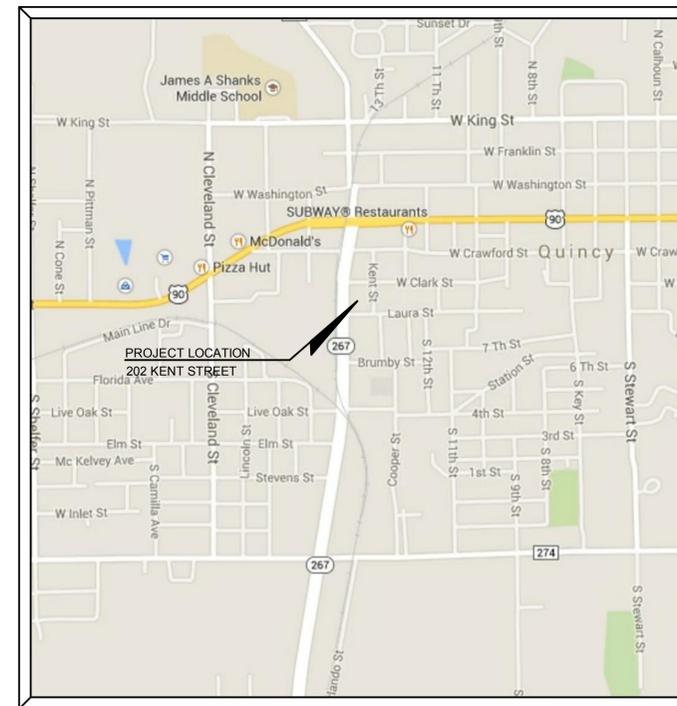
FOR:

TALLAHASSEE COMMUNITY COLLEGE GADSDEN COUNTY CENTER

222 PAT THOMAS PKWY
QUINCY, FLORIDA



VICINITY MAP



PROJECT LOCATION MAP

PREPARED BY:



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GADSDEN COUNTY CENTER

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QUINCY, FLORIDA

JOSEPH W. MILLER, P.E.
State of Florida P.E. # 49889

Revision	
Date	No. Description:

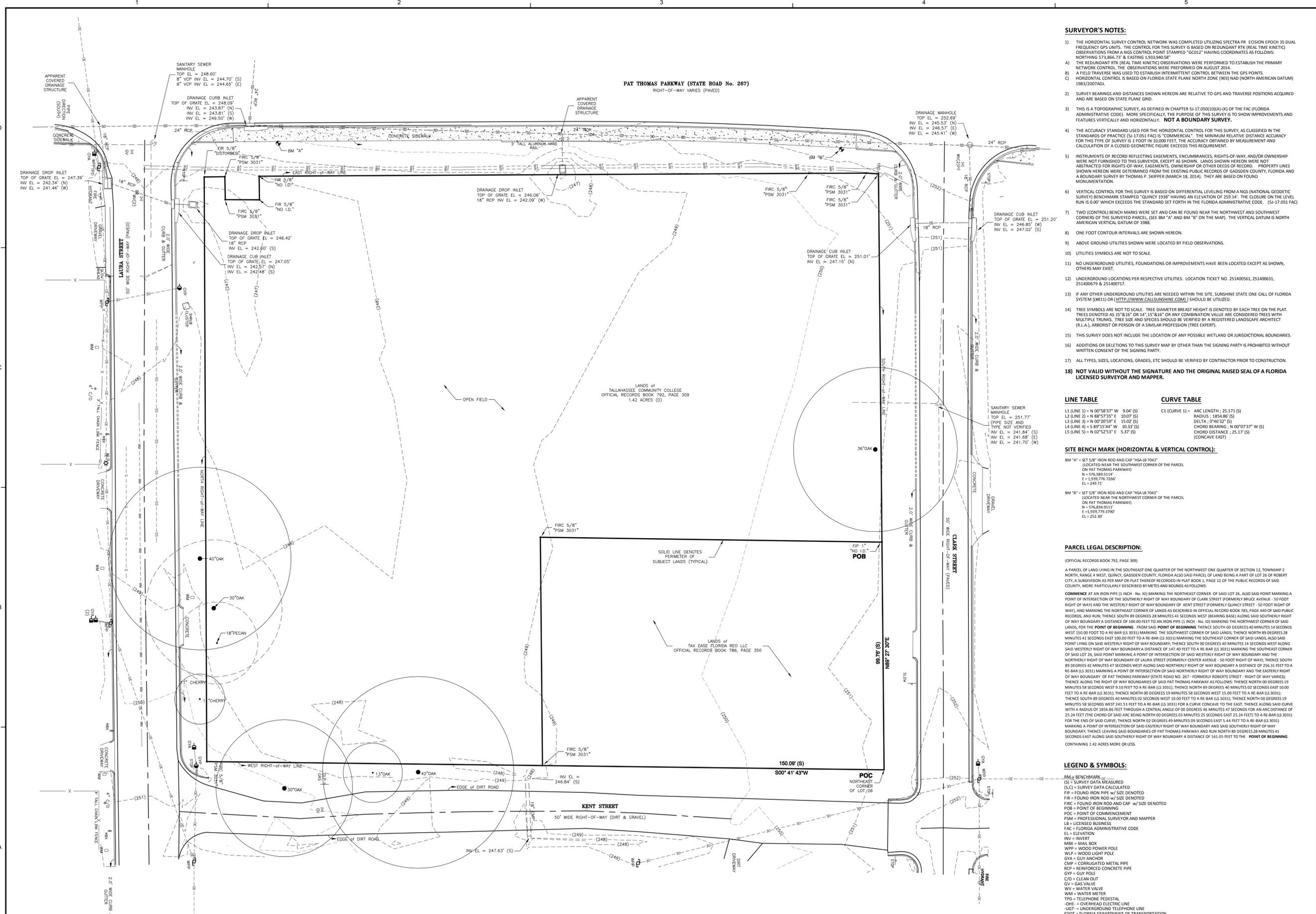
Drawn By: CKC
Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
COVER PAGE

Drawing No.: C 001



- SURVEYOR'S NOTES:**
- THE HORIZONTAL SURVEY CONTROL NETWORK WAS COMPLETED UTILIZING SPECTRA P.050 EPOCH 300 DUAL FREQUENCY GPS UNITS. THE CONTROL FOR THIS SURVEY IS BASED ON REDUNDANT RTK (REAL TIME KINETIC) OBSERVATIONS FROM A NGS CONTROL POINT STAMPED "GC012" HAVING COORDINATES AS FOLLOWS: NORTING 573,896.73 & EASTING 1,933,865.58
 - THE REDUNDANT RTK (REAL TIME KINETIC) OBSERVATIONS WERE PERFORMED TO ESTABLISH THE PRIMARY NETWORK CONTROL. THE OBSERVATIONS WERE PERFORMED ON AUGUST 2014.
 - A FIELD TRAVERSE WAS USED TO ESTABLISH INTERMITTENT CONTROL BETWEEN THE GPS POINTS.
 - HORIZONTAL CONTROL IS BASED ON FLORIDA STATE PLANE NORTH ZONE (903) NAD (NORTH AMERICAN DATUM) 1983/2007 AD.
 - SURVEY BEARINGS AND DISTANCES SHOWN HEREON ARE RELATIVE TO GPS AND TRAVERSE POSITIONS ACQUIRED AND ARE BASED ON STATE PLANE GRID.
 - THIS IS A TOPOGRAPHIC SURVEY, AS DEFINED IN CHAPTER 51-17.05(10)(A)-(K) OF THE FAC (FLORIDA ADMINISTRATIVE CODE). MORE SPECIFICALLY, THE PURPOSE OF THIS SURVEY IS TO SHOW IMPROVEMENTS AND FEATURES VERTICALLY AND HORIZONTALLY. **NOT A BOUNDARY SURVEY.**
 - THE ACCURACY STANDARD USED FOR THE HORIZONTAL CONTROL FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (S-17.05) FAC IS "COMMERCIAL". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE EXCEEDS THIS REQUIREMENT.
 - INSTRUMENTS OF RECORD REFLECTING EASEMENTS, ENCUMBRANCES, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE NOT FURNISHED TO THIS SURVEYOR, EXCEPT AS SHOWN. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP OR OTHER DEEDS OF RECORD. PROPERTY LINES SHOWN HEREON WERE DETERMINED FROM THE EXISTING PUBLIC RECORDS OF GADSDEN COUNTY, FLORIDA AND A BOUNDARY SURVEY BY THOMAS P. SKIPPER (MARCH 18, 2014). THEY ARE BASED ON FOUND MONUMENTATION.
 - VERTICAL CONTROL FOR THIS SURVEY IS BASED ON DIFFERENTIAL LEVELING FROM A NGS (NATIONAL GEODETIC SURVEY) BENCHMARK STAMPED "QUINCY 1938" HAVING AN ELEVATION OF 259.14'. THE CLOSURE ON THE LEVEL RUN IS 0.00" WHICH EXCEEDS THE STANDARD SET FORTH IN THE FLORIDA ADMINISTRATIVE CODE. (51-17.05) FAC
 - TWO (2) CONTROL BENCH MARKS WERE SET AND CAN BE FOUND NEAR THE NORTHWEST AND SOUTHWEST CORNERS OF THE SURVEYED PARCEL, (SEE BM "A" AND BM "B" ON THE MAP). THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988.
 - ONE FOOT CONTOUR INTERVALS ARE SHOWN HEREON.
 - ABOVE GROUND UTILITIES SHOWN WERE LOCATED BY FIELD OBSERVATIONS.
 - UTILITIES SYMBOLS ARE NOT TO SCALE.
 - NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN, OTHERS MAY EXIST.
 - UNDERGROUND LOCATIONS PER RESPECTIVE UTILITIES. LOCATION TICKET NO. 251400561, 251400631, 251400679 & 251400717.
 - IF ANY OTHER UNDERGROUND UTILITIES ARE NEEDED WITHIN THE SITE, SUNSHINE STATE ONE CALL OF FLORIDA SYSTEM (#811) OR ([HTTP://WWW.CALLSUNSHINE.COM](http://www.callsunshine.com)) SHOULD BE UTILIZED.
 - TREE SYMBOLS ARE NOT TO SCALE. TREE DIAMETER BREST HEIGHT IS DENOTED BY EACH TREE ON THE PLAN. TREES DENOTED AS 15" & 16" OR 14" 15" & 16" OR ANY COMBINATION VALUE ARE CONSIDERED TREES WITH MULTIPLE TRUNKS. TREE SIZE AND SPECIES SHOULD BE VERIFIED BY A REGISTERED LANDSCAPE ARCHITECT (R.L.A.), ARBORIST OR PERSON OF A SIMILAR PROFESSION (TREE EXPERT).
 - THIS SURVEY DOES NOT INCLUDE THE LOCATION OF ANY POSSIBLE WETLAND OR JURISDICTIONAL BOUNDARIES.
 - ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
 - ALL TYPES, SIZES, LOCATIONS, GRADES, ETC SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.**

LINE TABLE

L1 (LINE 1) = N 00°58'37" W 9.04' (S)	C1 (CURVE 1) = ARC LENGTH / 25.171' (S)
L2 (LINE 2) = N 89°15'44" W 10.33' (S)	RADIUS / 135.861' (S)
L3 (LINE 3) = N 02°20'59" E 15.02' (S)	DELTA / 0°46'32" (S)
L4 (LINE 4) = S 89°15'44" W 10.33' (S)	CHORD BEARING / N 00°07'37" W (S)
L5 (LINE 5) = N 02°25'53" E 5.37' (S)	CHORD DISTANCE / 25.171' (S)
	(CONCAVE EAST)

CURVE TABLE

SITE BENCH MARK (HORIZONTAL & VERTICAL CONTROL):

BM "A" = SET 5/8" IRON ROD AND CAP "HSA LB 7043" (LOCATED NEAR THE SOUTHWEST CORNER OF THE PARCEL ON PAT THOMAS PARKWAY)
 N = 576.589 5114"
 E = 1,939.776 7266"
 EL = 249.71'

BM "B" = SET 5/8" IRON ROD AND CAP "HSA LB 7043" (LOCATED NEAR THE NORTHWEST CORNER OF THE PARCEL ON PAT THOMAS PARKWAY)
 N = 576.836 9111"
 E = 1,939.779 3790"
 EL = 252.30'

PARCEL LEGAL DESCRIPTION:

(OFFICIAL RECORDS BOOK 792, PAGE 309)

A PARCEL OF LAND LYING IN THE SOUTHEAST ONE QUARTER OF THE NORTHWEST ONE QUARTER OF SECTION 12, TOWNSHIP 2 NORTH, RANGE 4 WEST, QUINCY, GADSDEN COUNTY, FLORIDA ALSO SAID PARCEL OF LAND BEING A PART OF LOT 26 OF ROBERT CITY, A SUBDIVISION AS PER MAP OR PLAN THEREOF RECORDED IN PLAT BOOK 1, PAGE 12 OF THE PUBLIC RECORDS OF SAID COUNTY, MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCE AT AN IRON PIPE (1/2 INCH - NO. 10) MARKING THE NORTHEAST CORNER OF SAID LOT 26, ALSO SAID POINT MARKING A POINT OF INTERSECTION OF THE SOUTHERLY RIGHT OF WAY BOUNDARY OF CLARK STREET (FORMERLY BRUCE AVENUE - 50 FOOT RIGHT OF WAY) AND THE WESTERLY RIGHT OF WAY BOUNDARY OF KENT STREET (FORMERLY QUINCY STREET - 50 FOOT RIGHT OF WAY), AND MARKING THE NORTHEAST CORNER OF LANDS AS DESCRIBED IN OFFICIAL RECORD BOOK 785, PAGE 440 OF SAID PUBLIC RECORDS, AND RUN; THENCE SOUTH 89 DEGREES 28 MINUTES 14 SECONDS WEST (BEARING BASE) ALONG SAID SOUTHERLY RIGHT OF WAY BOUNDARY A DISTANCE OF 100.00 FEET TO AN IRON PIPE (1/2 INCH - NO. 10) MARKING THE NORTHWEST CORNER OF SAID LANDS, FOR THE POINT OF BEGINNING. FROM SAID POINT OF BEGINNING THENCE SOUTH 00 DEGREES 40 MINUTES 14 SECONDS WEST 150.00 FEET TO A RE-BAR (LS 3031) MARKING THE SOUTHWEST CORNER OF SAID LANDS; THENCE NORTH 89 DEGREES 28 MINUTES 41 SECONDS EAST 100.00 FEET TO A RE-BAR (LS 3031) MARKING THE SOUTHWEST CORNER OF SAID LANDS; ALSO SAID POINT LYING ON SAID WESTERLY RIGHT OF WAY BOUNDARY; THENCE SOUTH 00 DEGREES 40 MINUTES 14 SECONDS WEST ALONG SAID WESTERLY RIGHT OF WAY BOUNDARY A DISTANCE OF 147.40 FEET TO A RE-BAR (LS 3031) MARKING THE SOUTHWEST CORNER OF SAID LOT 26; SAID POINT MARKING A POINT OF INTERSECTION OF SAID WESTERLY RIGHT OF WAY BOUNDARY AND THE NORTHERLY RIGHT OF WAY BOUNDARY OF LAURA STREET (FORMERLY CENTER AVENUE - 50 FOOT RIGHT OF WAY); THENCE SOUTH 89 DEGREES 42 MINUTES 47 SECONDS WEST ALONG SAID NORTHERLY RIGHT OF WAY BOUNDARY A DISTANCE OF 256.31 FEET TO A RE-BAR (LS 3031) MARKING A POINT OF INTERSECTION OF SAID NORTHERLY RIGHT OF WAY BOUNDARY AND THE EASTERLY RIGHT OF WAY BOUNDARY OF PAT THOMAS PARKWAY (STATE ROAD NO. 267 - FORMERLY ROBERTS STREET - RIGHT OF WAY VARIES); THENCE ALONG THE RIGHT OF WAY BOUNDARY OF SAID PAT THOMAS PARKWAY AS FOLLOWS: THENCE NORTH 00 DEGREES 19 MINUTES 58 SECONDS WEST 9.10 FEET TO A RE-BAR (LS 3031); THENCE NORTH 89 DEGREES 40 MINUTES 02 SECONDS EAST 10.00 FEET TO A RE-BAR (LS 3031); THENCE NORTH 00 DEGREES 19 MINUTES 58 SECONDS WEST 35.00 FEET TO A RE-BAR (LS 3031); THENCE SOUTH 89 DEGREES 40 MINUTES 02 SECONDS WEST 10.00 FEET TO A RE-BAR (LS 3031); THENCE NORTH 00 DEGREES 19 MINUTES 58 SECONDS WEST 241.51 FEET TO A RE-BAR (LS 3031) FOR A CURVE CONCAVE TO THE EAST; THENCE ALONG SAID CURVE WITH A RADIUS OF 354.85 FEET THROUGH A CENTRAL ANGLE OF 00 DEGREES 46 MINUTES 47 SECONDS FOR AN ARC DISTANCE OF 25.24 FEET (THE CHORD OF SAID ARC BEING NORTH 00 DEGREES 03 MINUTES 25 SECONDS EAST 25.24 FEET) TO A RE-BAR (LS 3031) FOR THE END OF SAID CURVE; THENCE NORTH 02 DEGREES 49 MINUTES 09 SECONDS EAST 5.44 FEET TO A RE-BAR (LS 3031) MARKING A POINT OF INTERSECTION OF SAID EASTERLY RIGHT OF WAY BOUNDARY AND SAID SOUTHERLY RIGHT OF WAY BOUNDARY; THENCE LEAVING SAID BOUNDARIES OF PAT THOMAS PARKWAY AND RUN NORTH 89 DEGREES 28 MINUTES 41 SECONDS EAST ALONG SAID SOUTHERLY RIGHT OF WAY BOUNDARY A DISTANCE OF 161.05 FEET TO THE POINT OF BEGINNING. CONTAINING 1.42 ACRES MORE OR LESS.

LEGEND & SYMBOLS:

BM = BENCHMARK
 (S) = SURVEY DATA MEASURED
 (S,C) = SURVEY DATA CALCULATED
 FIP = FOUND IRON PIPE w/ SIZE DENOTED
 FIR = FOUND IRON ROD w/ SIZE DENOTED
 FIRC = FOUND IRON ROD AND CAP w/ SIZE DENOTED
 POB = POINT OF BEGINNING
 POC = POINT OF COMMENCEMENT
 PSM = PROFESSIONAL SURVEYOR AND MAPPER
 LB = LICENSED BUSINESS
 FAC = FLORIDA ADMINISTRATIVE CODE
 EL = ELEVATION
 INV = INVERT
 MBX = MAIL BOX
 WPP = WOOD POWER POLE
 WLP = WOOD LIGHT POLE
 GYA = GUY ANCHOR
 CMP = CORRUGATED METAL PIPE
 RCP = REINFORCED CONCRETE PIPE
 GYP = GUY POLE
 C/O = CLEAN OUT
 G/V = GAS VALVE
 W/V = WATER VALVE
 WM = WATER METER
 TPD = TELEPHONE PEDESTAL
 OHE = OVERHEAD ELECTRIC LINE
 UELT = UNDERGROUND TELEPHONE LINE
 FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION
 DLP = DELINEATOR POST
 VCP = VETRIFIED CLAY PIPE



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JOSEPH W. MILLER, P.E.
 State of Florida P.E. # 49889

Revision

Date	No.	Description:

Drawn By: LJR
 Checked By: JWM

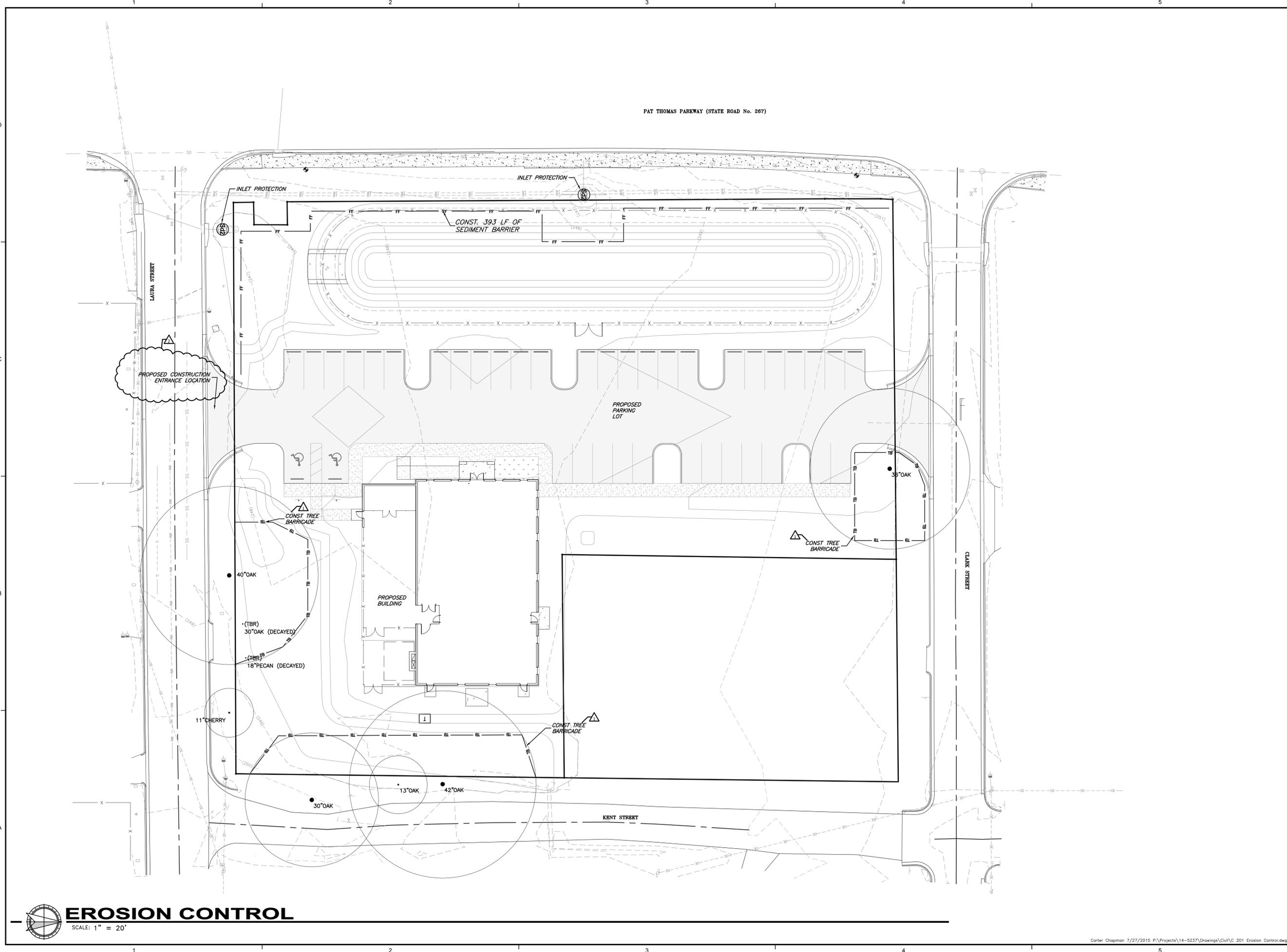
Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
 EXISTING CONDITIONS

Drawing No.: C 101

EXISTING CONDITIONS
 SCALE: 1"=20'



PAT THOMAS PARKWAY (STATE ROAD No. 207)

LAURA STREET

CLARK STREET

KENT STREET

PROPOSED CONSTRUCTION ENTRANCE LOCATION

CONST. 393 LF OF SEDIMENT BARRIER

PROPOSED PARKING LOT

PROPOSED BUILDING

CONST. TREE BARRICADE

CONST. TREE BARRICADE

CONST. TREE BARRICADE

11" CHERRY

40" OAK

(TBR) 30" OAK (DECAYED)

(TBR) 18" PECAN (DECAYED)

30" OAK

13" OAK

42" OAK

35" OAK

EROSION CONTROL
SCALE: 1" = 20'



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Revision

Date	No.	Description
3/19/2015	1	EXPANDED TREE BARRICADES
3/19/2015	2	CONSTRUCTION ENTRANCE LOCATION

Drawn By: LJR
Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
EROSION CONTROL

Drawing No.: **C 201**



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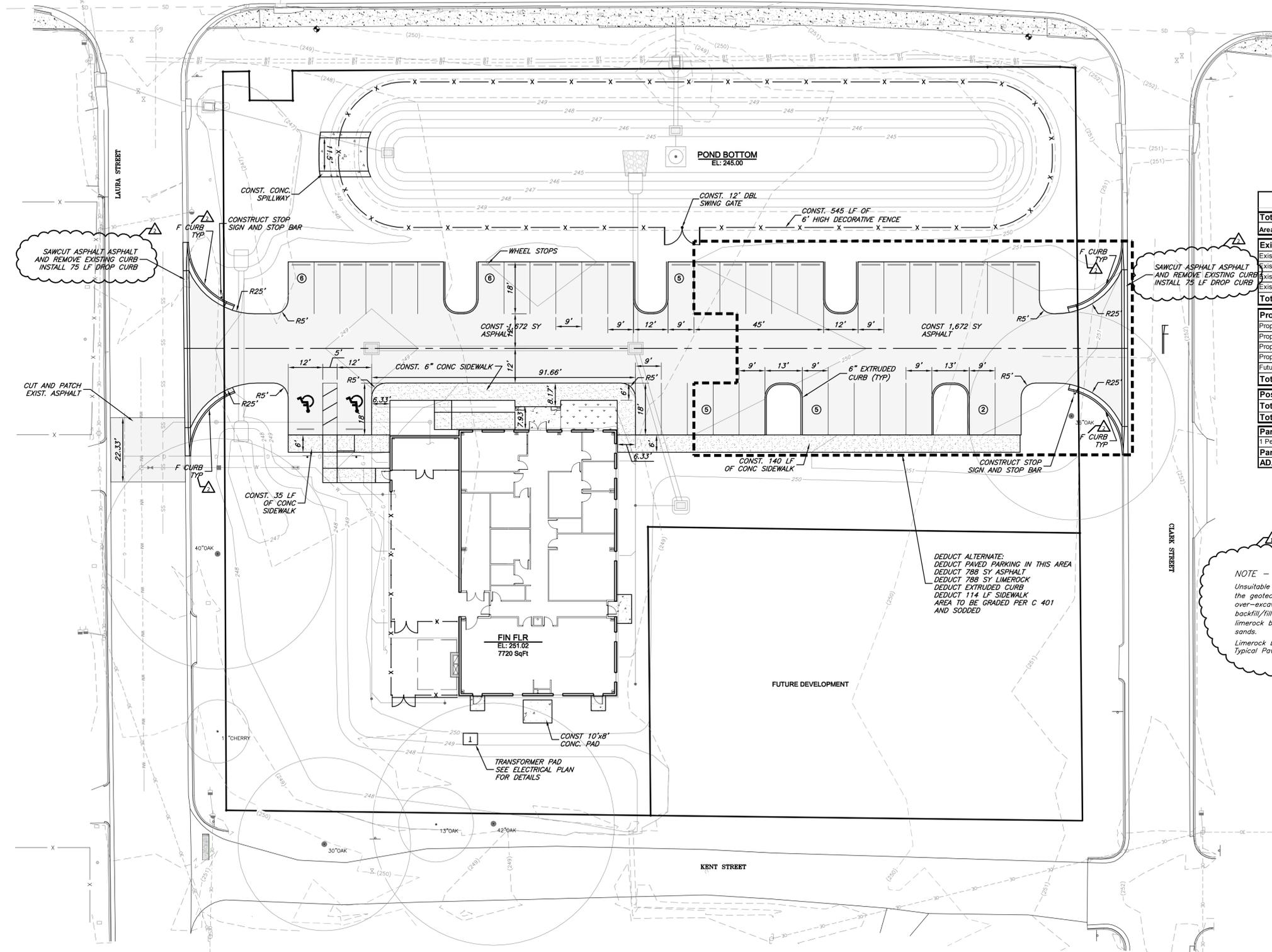
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PAT THOMAS PARKWAY (STATE ROAD No. 207)



SITE DATA TABLE			
Item	Sq. Ft.	Acres	% of Site
Total Parcel Size			
Area Within the Limits of Construction	76,677	1.76	100.00%
Existing Impervious Area			
Existing Asphalt Paving	0	0.00	0.00%
Existing Concrete Paving	0	0.00	0.00%
Existing Buildings	0	0.00	0.00%
Existing Concrete Sidewalk	0	0.00	0.00%
Total Existing Impervious Area	0	0.00	0.00%
Proposed Impervious			
Proposed Building	7,720	0.18	10.07%
Proposed Misc. Concrete and Sidewalks	1,875	0.04	2.45%
Proposed Asphalt Paving	15,047	0.35	19.62%
Proposed SWMF at Design High Water	6,589	0.15	8.59%
Future Impervious (70% of Undeveloped Parcel)	10,486	0.24	13.68%
Total Proposed Impervious Area	41,717	0.96	54.41%
Post Construction			
Total Impervious Area Post Construction	41,717	0.96	54.41%
Total Pervious Area Post Construction	34,960	0.80	45.59%
Parking Requirements	Required	Proposed	Total
1 Per 2 Students, 4 Employees	36	39	39
Parking Stalls Provided Regular			
ADA Stalls Provided		2	2

NOTE - ISSUED BY ADDENDUM 1
Unsuitable soils may be encountered under the pavement areas as identified by the geotechnical report. The contractor shall include in his/her bid the cost to over-excavate the area under the asphalt parking to provide a minimum backfill/fill depth of 2 feet of suitable soil below the bottom of the proposed limerock base. Backfill/fill soils shall consist of A-2-4 silty/slightly clayey sands. Limerock base for paving shall be 8 - inches thick. Bidders shall annotate Typical Pavement Detail on sheet C701 to indicate 8" of limerock base.

SITE PLAN
SCALE: 1"=20'

JOSEPH W. MILLER, P.E.
State of Florida P.E. # 49889

Revision	
Date	No. Description:
3/19/2015	1 ADDENDUM 1
3/19/2015	2 ADD CURB
3/19/2015	3 ADDED ISLAND CURB
6/23/2015	4 ADJUST FOR NEW BUILDING FOOTPRINT

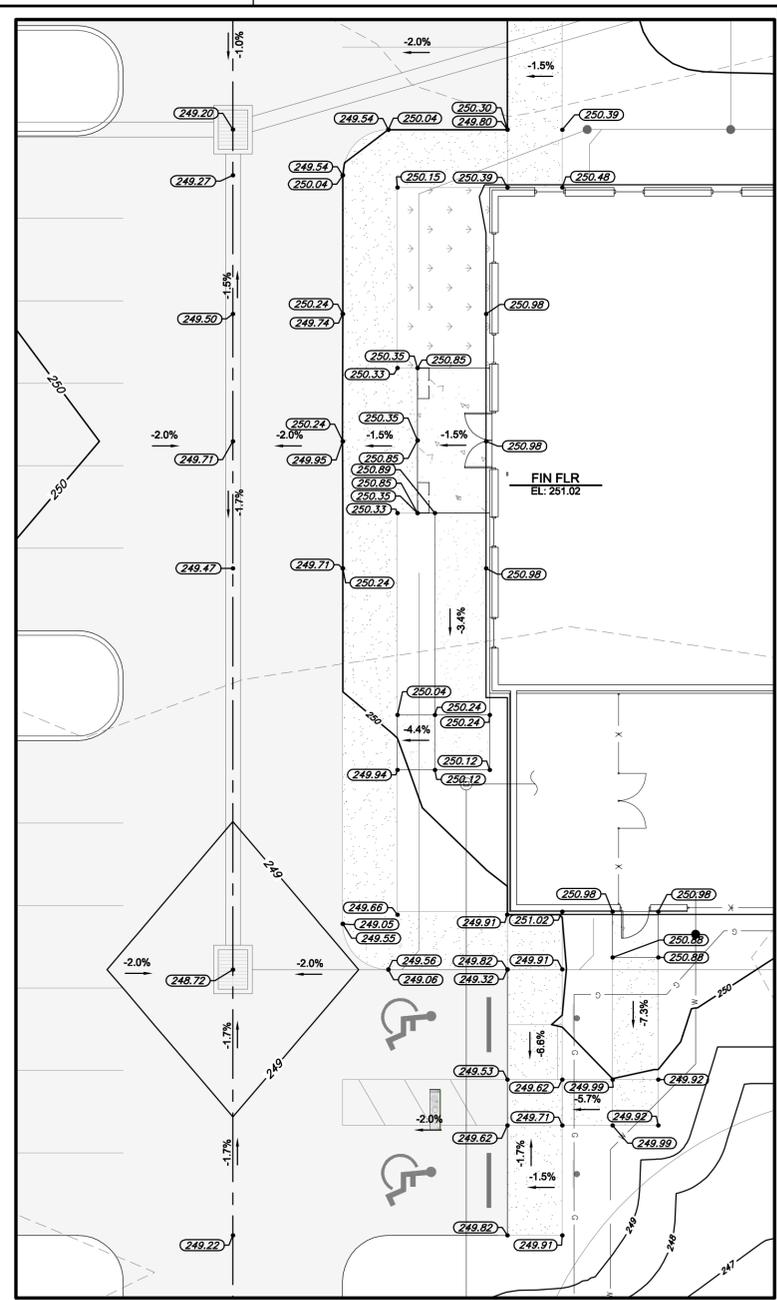
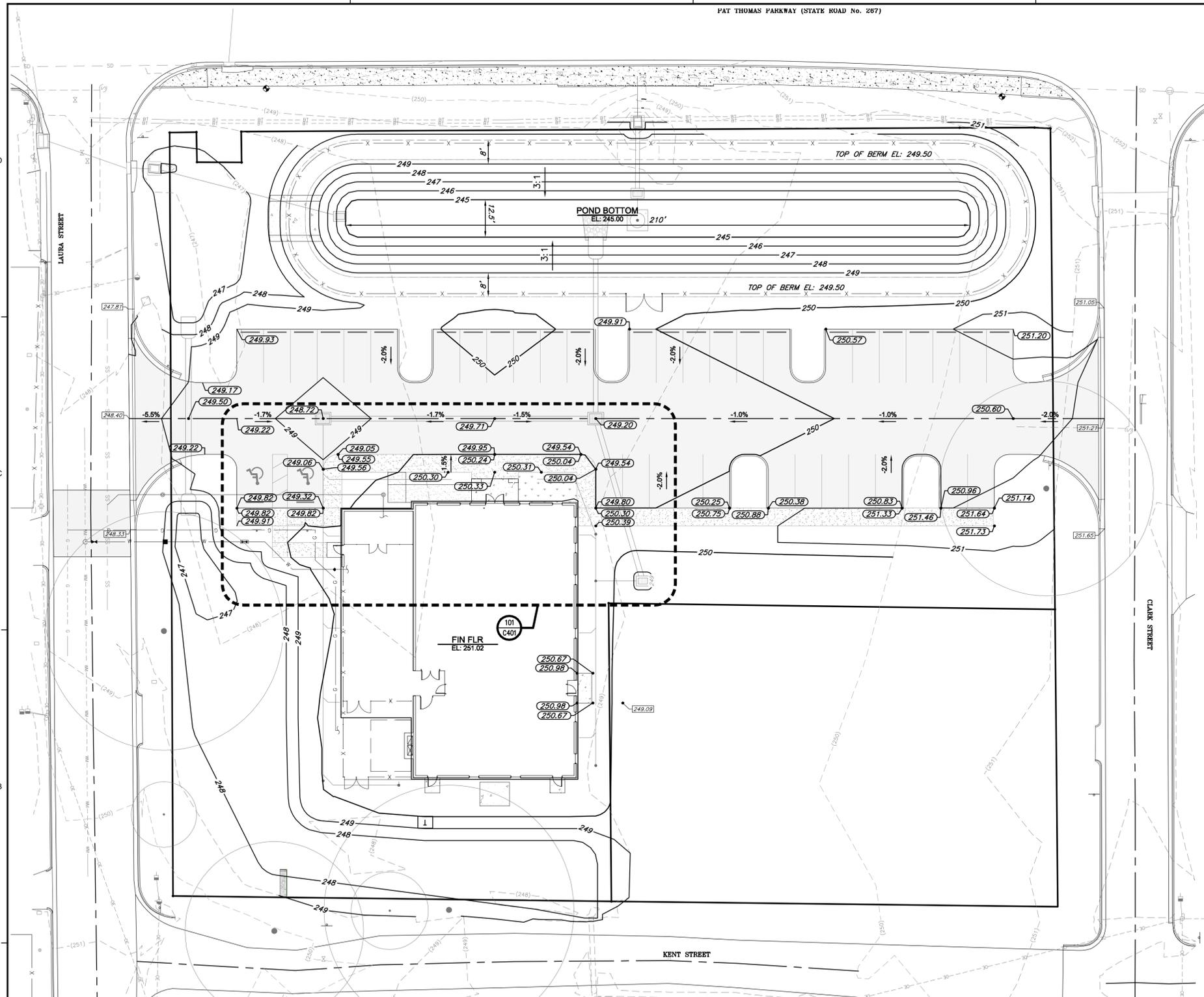
Drawn By: LJR
Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
SITE PLAN

Drawing No.: **C 301**



101 GRADING PLAN
 C401 SCALE: 1"=10'

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Revision	
Date	No. Description:
6/23/2015	1 ADJUST FOR NEW BUILDING FOOTPRINT

Drawn By: LJR
 Checked By: JWM

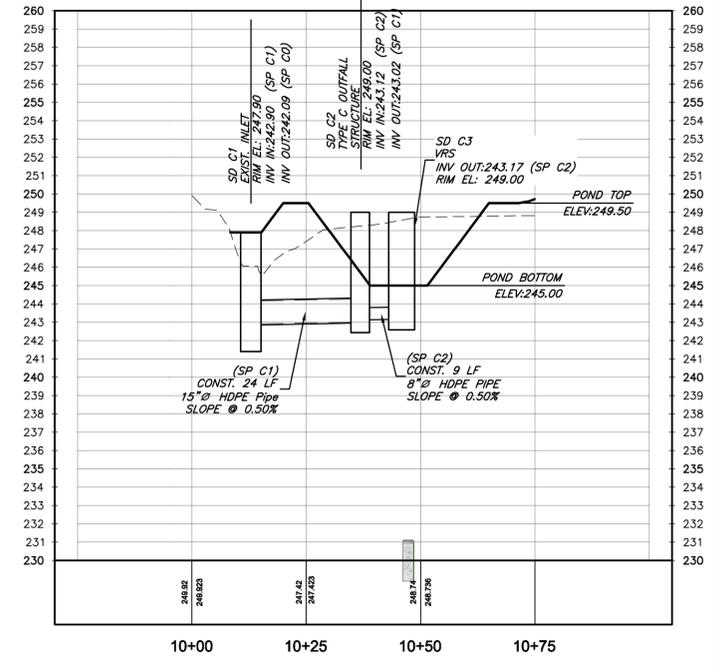
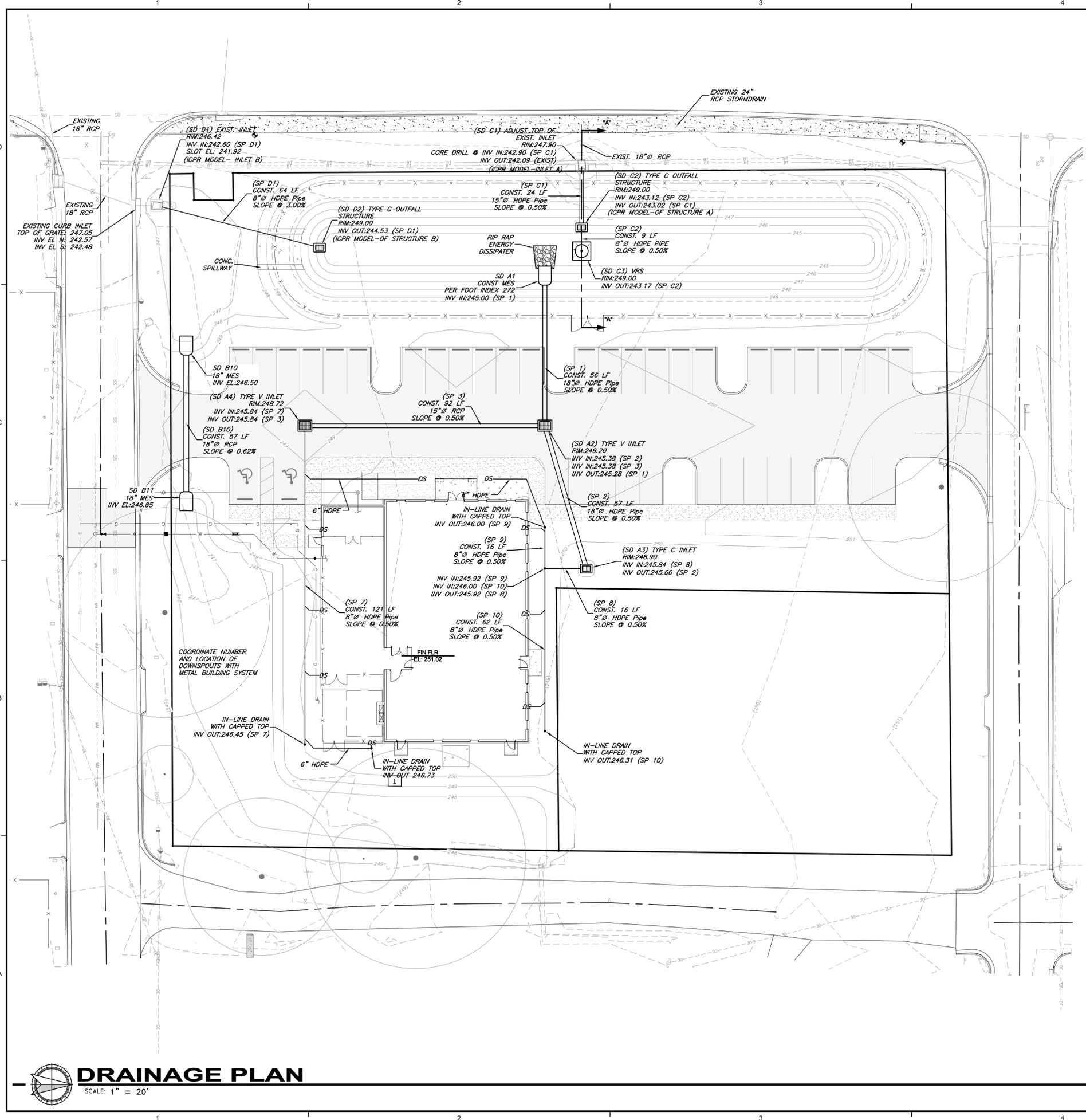
Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
 GRADING PLAN

Drawing No.: **C 401**

GRADING PLAN
 SCALE: 1" = 20'



PROFILE VIEW: POND CROSS SECTION A-A
 Horiz. Scale: 1"=20' Vert. Scale: 1"=5'

DRAINAGE PLAN
 SCALE: 1" = 20'



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Revision	
Date	No. Description:

Drawn By: LJR
 Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
DRAINAGE PLAN

Drawing No.: **C 501**



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QUINCY, FLORIDA

JOSEPH W. MILLER, P.E.
State of Florida P.E. # 49889

Revision

Date	No.	Description:
3/19/2015	1	ADDENDUM 1

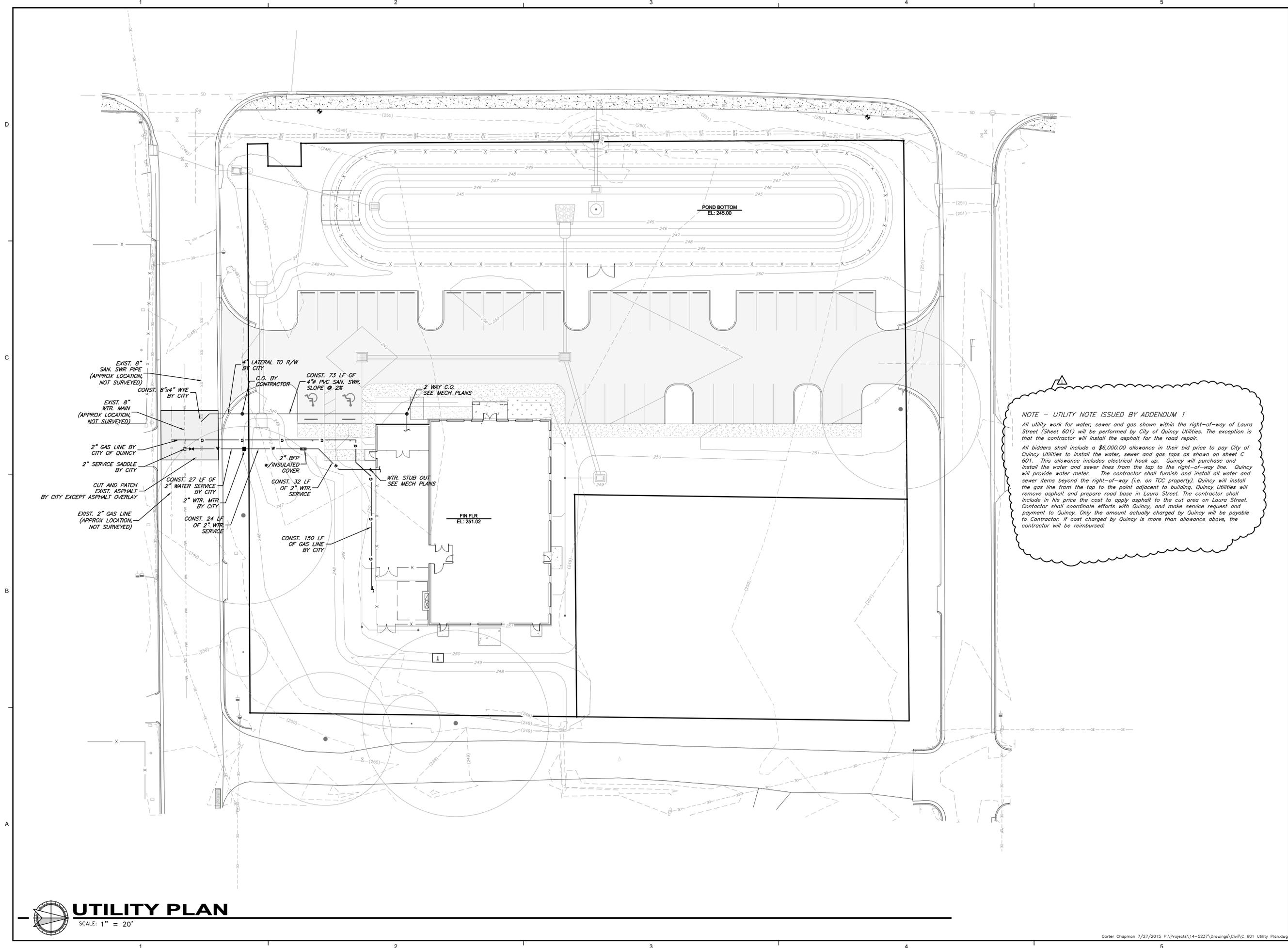
Drawn By: LJR
Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

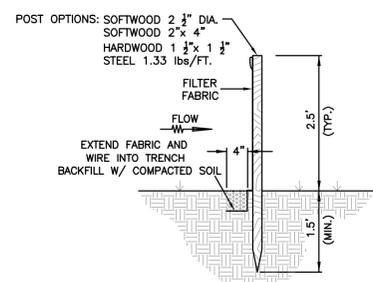
Drawing Title:
UTILITY PLAN

Drawing No.: C 601



NOTE - UTILITY NOTE ISSUED BY ADDENDUM 1
All utility work for water, sewer and gas shown within the right-of-way of Laura Street (Sheet 601) will be performed by City of Quincy Utilities. The exception is that the contractor will install the asphalt for the road repair.
All bidders shall include a \$6,000.00 allowance in their bid price to pay City of Quincy Utilities to install the water, sewer and gas taps as shown on sheet C 601. This allowance includes electrical hook up. Quincy will purchase and install the water and sewer lines from the tap to the right-of-way line. Quincy will provide water meter. The contractor shall furnish and install all water and sewer items beyond the right-of-way (i.e. on TCC property). Quincy will install the gas line from the tap to the point adjacent to building. Quincy Utilities will remove asphalt and prepare road base in Laura Street. The contractor shall include in his price the cost to apply asphalt to the cut area on Laura Street. Contractor shall coordinate efforts with Quincy, and make service request and payment to Quincy. Only the amount actually charged by Quincy will be payable to Contractor. If cost charged by Quincy is more than allowance above, the contractor will be reimbursed.

UTILITY PLAN
SCALE: 1" = 20'

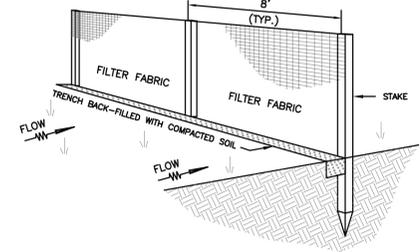


- ### FILTER FENCE MAINTENANCE
- FILTER FENCE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - SHOULD THE FABRIC ON A FILTER FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FILTER FENCE STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE FILTER FENCE.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

---FF---FF---FF---FF--- DENOTES FILTER FENCE

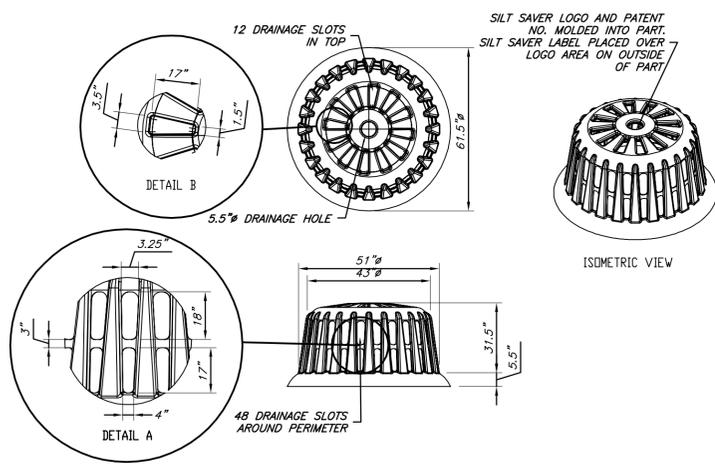
FILTER FENCE NOTES

N.T.S. EC-008A



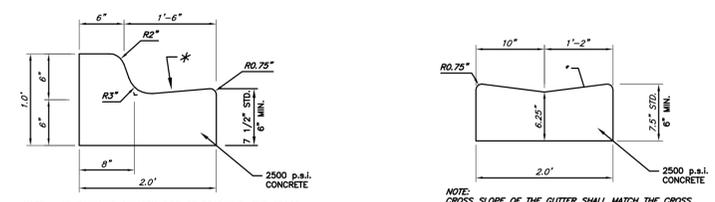
FILTER FENCE DETAILS

N.T.S. EC-006



SILT SAVER INLET PROTECTION DETAIL

N.T.S.



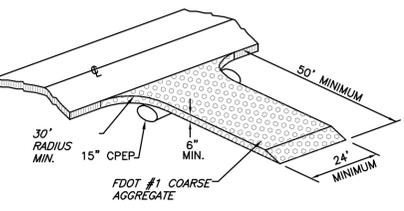
TYPE F CURB AND GUTTER

N.T.S.



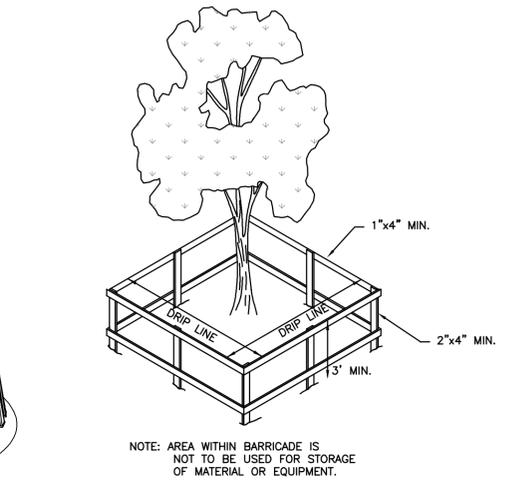
DROP CURB

N.T.S.



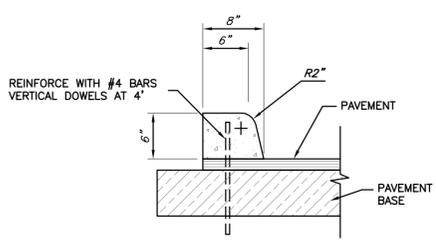
GRAVEL CONSTRUCTION ENTRANCE/EXIT

N.T.S. EC-017



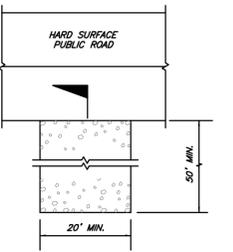
TREE PROTECTION BARRICADE

N.T.S.



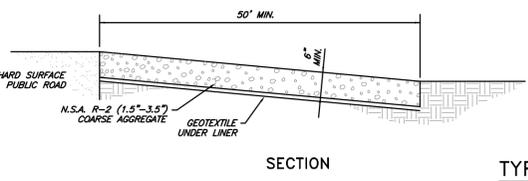
6" EXTRUDED CURB

N.T.S.



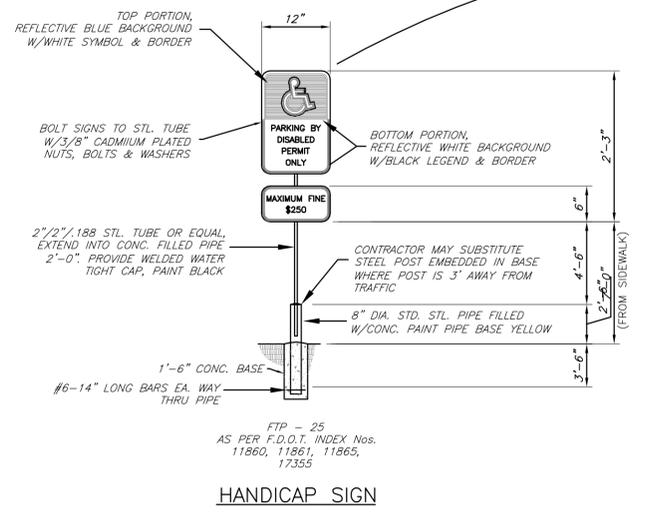
CONSTRUCTION ENTRANCE/EXIT

N.T.S.



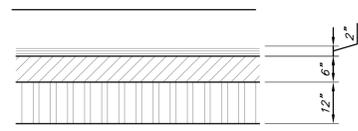
TYPICAL CUT AND PATCH DETAIL

N.T.S. EC-016



HANDICAP PARKING DETAILS

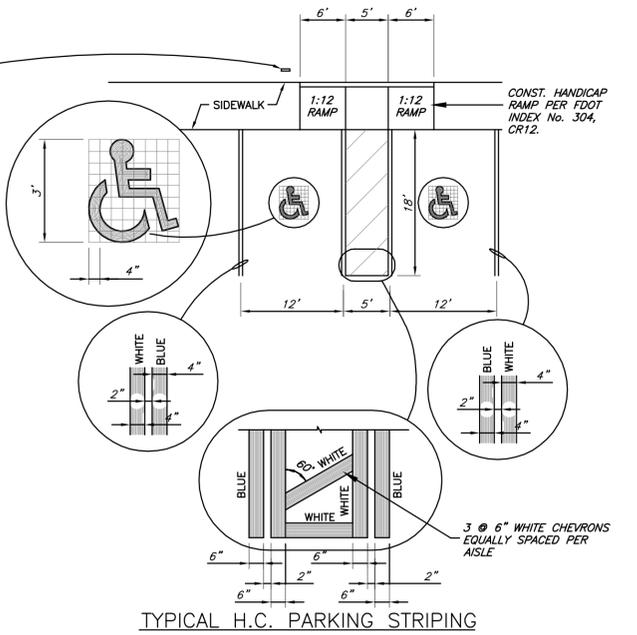
SCALE: NTS



SURFACE COURSE - TYPE SP ASPHALTIC CONCRETE
BASE COURSE - LIMEROCK (6" COMPACTED THICKNESS) WITH PRIME COAT
SUBGRADE - TYPE B STABILIZATION
TYPE SP ASPHALTIC CONCRETE SURFACE (2" MIN. COMPACTED THICKNESS) SHALL BE PLACED IN TWO LAYERS.
FIRST LAYER SHALL BE TYPE SP-9.5 AND HAVE A MIN. COMPACTED THICKNESS OF 1.00 INCH.
SECOND AND FINAL LAYER SHALL BE TYPE SP-9.5 AND HAVE A MIN. COMPACTED THICKNESS OF 1.00 INCH.
THE FIRST LAYER SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF THE BASE COURSE.
THE FINAL LAYER SHALL BE PLACED AT THE COMPLETION OF THE PROJECT AND SHALL MEET ALL REQUIREMENTS (INCLUDING MARKING AND PLACING REQUIREMENTS) AS SET FORTH BY F.D.O.T. FOR AN ASPHALTIC CONCRETE SURFACE COURSE TYPE SP.
WHERE REFERENCE IS MADE TO A STANDARD SPECIFICATION OR DETAIL, THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, SHALL BE USED AS IF PART OF THIS PLAN. COMPACTION AND DENSITY REQUIREMENTS ARE SUBJECT TO RECOMMENDATIONS OF THE GEOTECH (SOILS) SURVEY.
ALL PAVEMENT, PAVEMENT MARKINGS, SIGNAGE AND MESSAGES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS.
NOTE: PAVEMENT RECOMMENDATIONS GIVEN IN A GEOTECHNICAL REPORT PREPARED SPECIFICALLY FOR THIS SITE SHALL TAKE PRECEDENCE OVER THIS TYP. PAVEMENT SECTION.

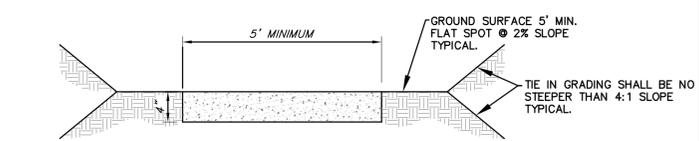
TYPICAL PAVEMENT DETAIL

SCALE: NTS S-017



TYPICAL H.C. PARKING STRIPING

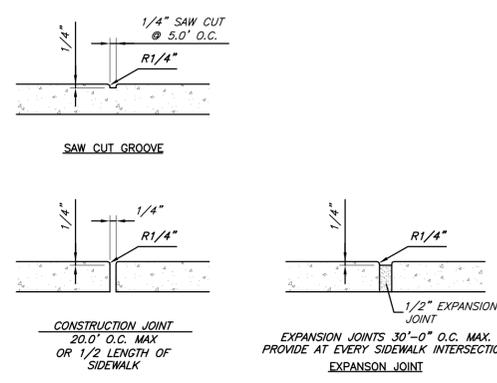
WHERE S.W. IS ADJACENT TO BUILDING MOUNT SIGNS ON FACE OF BUILDING



TYPICAL 4" CONCRETE SIDEWALK

SCALE: NTS

NOTE: CONSTRUCT 4" THICK CONCRETE SIDEWALK IN ACCORDANCE WITH FDOT INDEX NO. 310



TYPICAL CONCRETE SIDEWALK JOINT DETAILS

N.T.S.



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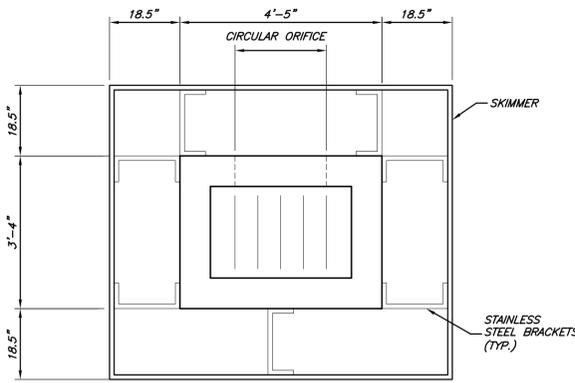
Drawn By: JWM
 Checked By: JWM

Date: 10 JUNE 2015

Project No.: 14033

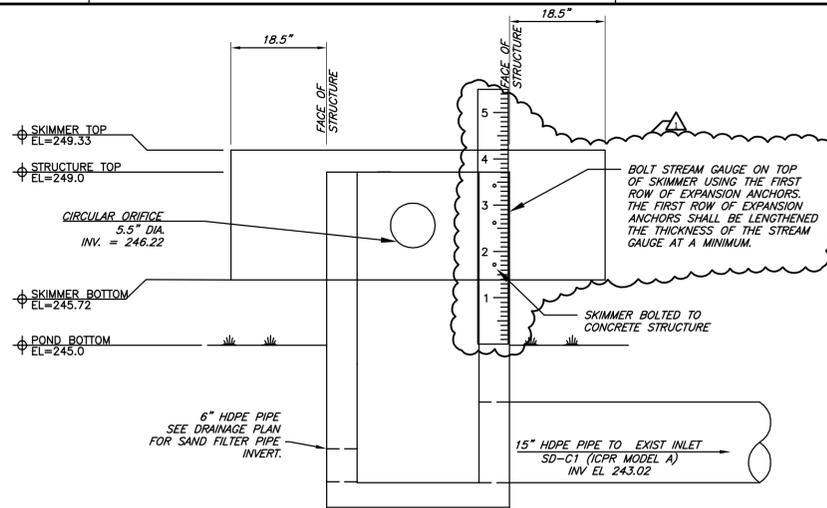
Drawing Title: SITE DETAILS

Drawing No.: C 701



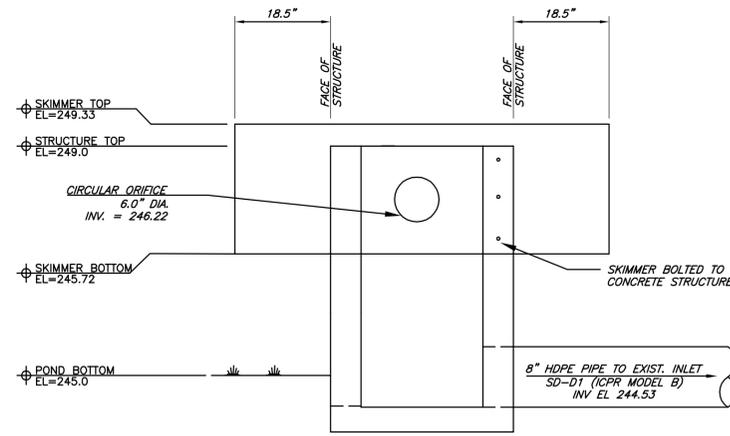
TYPE "C" OUTFALL STRUCTURE (PLAN VIEW)

SCALE: NTS



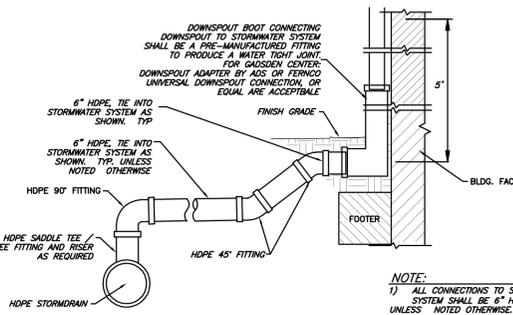
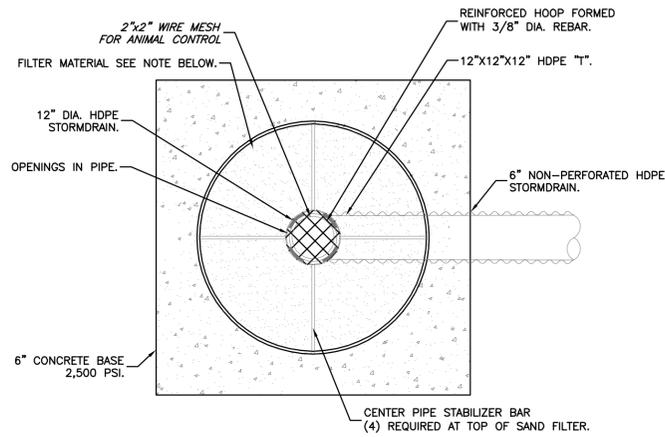
INLET (SD-C2) - TYPE "C" OUTFALL STRUCTURE

SCALE: NTS



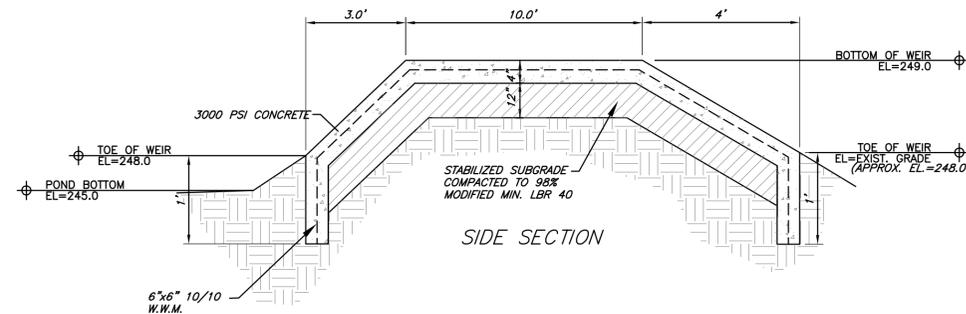
INLET (SD-D2) - TYPE "C" OUTFALL STRUCTURE

SCALE: NTS

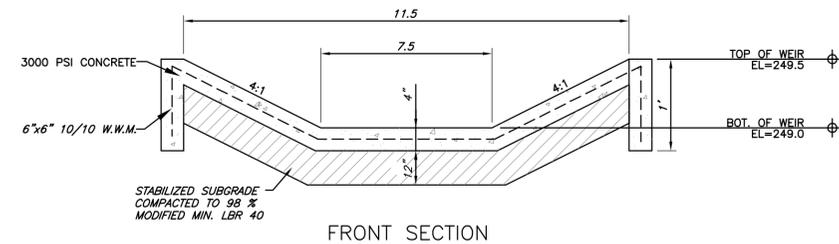


DOWNSPOUT BOOT DETAIL

SCALE: NTS



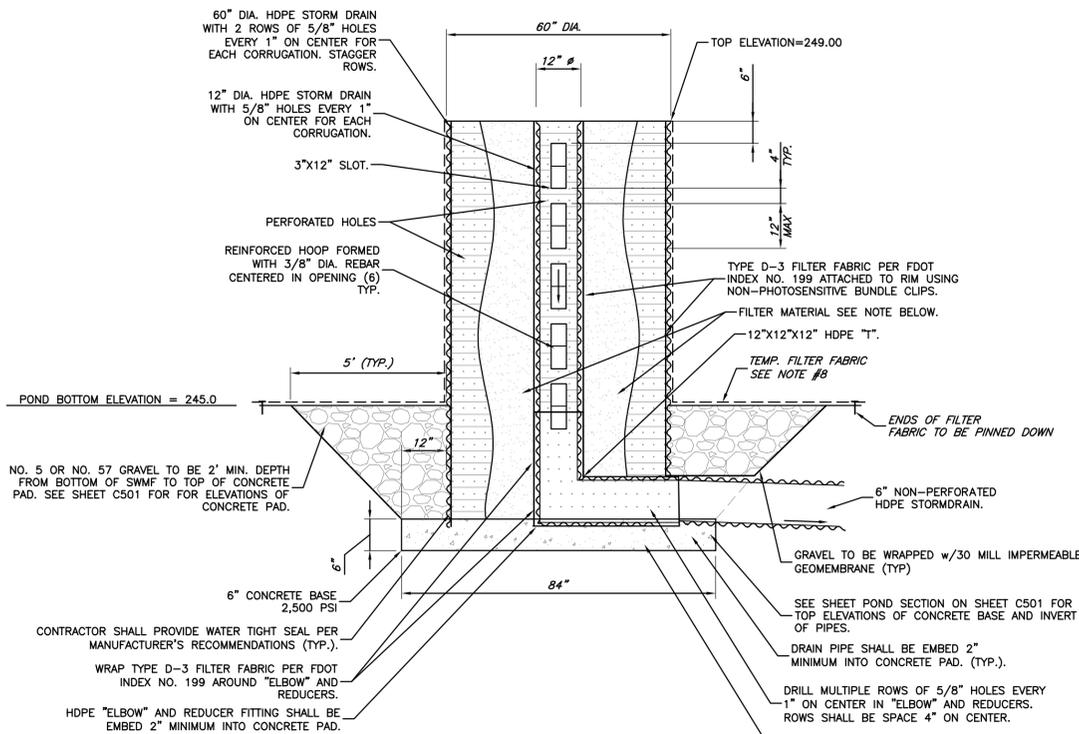
SIDE SECTION



FRONT SECTION

EMERGENCY CONCRETE OVERFLOW WEIR

SCALE: NTS

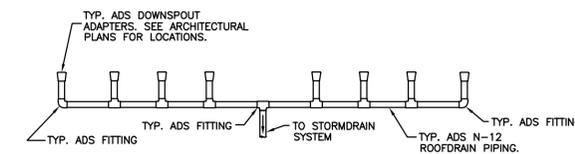


TYPICAL VERTICAL SAND FILTER

SCALE: NTS

VERTICAL SAND FILTER NOTES :

- SAND FOR SAND FILTER SHALL BE AS SPECIFIED IN THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS: (FAC 62-25)
 - CONTAIN LESS THAN 1% SILT, CLAY AND ORGANIC MATTER
 - UNIFORMITY COEFFICIENT SHALL BE BETWEEN 1.5 & 4.
 - EFFECTIVE GRAIN SIZE SHALL BE BETWEEN 0.20 AND 0.55 MM IN DIAMETER.
- PERCOLATION RATE OF SAND SHALL BE EQUAL TO OR GREATER THAN 120R PER DAY.
- PRIOR TO SAND PLACEMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION OF THE PERFORATED PIPE, GRAVEL AND FILTER FABRIC.
- AT SUCH TIME AFTER MATERIAL SET THAT THE ENTIRE PROJECT IS STABILIZED AND ALL SEDIMENT HAS BEEN REMOVED FROM THE FILTER SYSTEM, THE EXTERIOR FILTER-FABRIC SHALL BE REMOVED AND REPLACED.
- PRIOR TO FINAL ACCEPTANCE OF THE FILTRATION SYSTEM THE CONTRACTOR SHALL DOCUMENT A MINIMUM OF TWO COMPLETE DRAWDOWN (I.E. FULL TREATMENT STORAGE VOLUME) TIME INTERVALS. THE CONTRACTOR SHALL NOTE THE DATE, TIME, AND DEPTH OF WATER AT THE BEGINNING OF THE DRAWDOWN AND THE SAME WHEN THE POND HAS COMPLETELY DRAWN DOWN. THIS DOCUMENTATION SHALL OCCUR ONLY FOLLOWING COMPLETE SEDIMENT REMOVAL FROM THE POND'S DRAINAGE COLLECTION SYSTEM AND FOLLOWING SITE STABILIZATION.
- THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER OF RECORD A CERTIFIED GEOTECHNICAL REPORT FOR THE SAND.
- CONTRACTOR SHALL WRAP OUTSIDE OF 60" PIPE AND COVER THE EXPOSED GRAVEL WITH FILTER FABRIC DURING CONSTRUCTION TO PREVENT SEDIMENT FROM CLOGGING PERFORATIONS. THIS FILTER FABRIC SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND DRAINAGE BASIN IS STABILIZED.
- IF FILTER FABRIC BECOMES CLOGGED, UTILIZE VACUUM TRUCK TO REMOVE FILTER MEDIA AND REPLACE FILTER FABRIC AND FILTER MEDIA.
- INTERIOR PIPES OF VERTICAL SAND FILTER CAN BE USED AS CLEAN OUTS. IF SEDIMENT BUILDS IN DRAINAGE PIPE USE HIGH PRESSURE WATER TO REMOVE SEDIMENT.
- CONTRACTOR SHALL ENSURE THE NUMBER OF 5/8" HOLES DRILLED INTO PIPE MEET 689 PER LF



TYPICAL ADS ROOFDRAIN SYSTEM

SCALE: NTS



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Revision

Date	No.	Description:
3/19/2015	1	ADDED DEPTH GAUGE

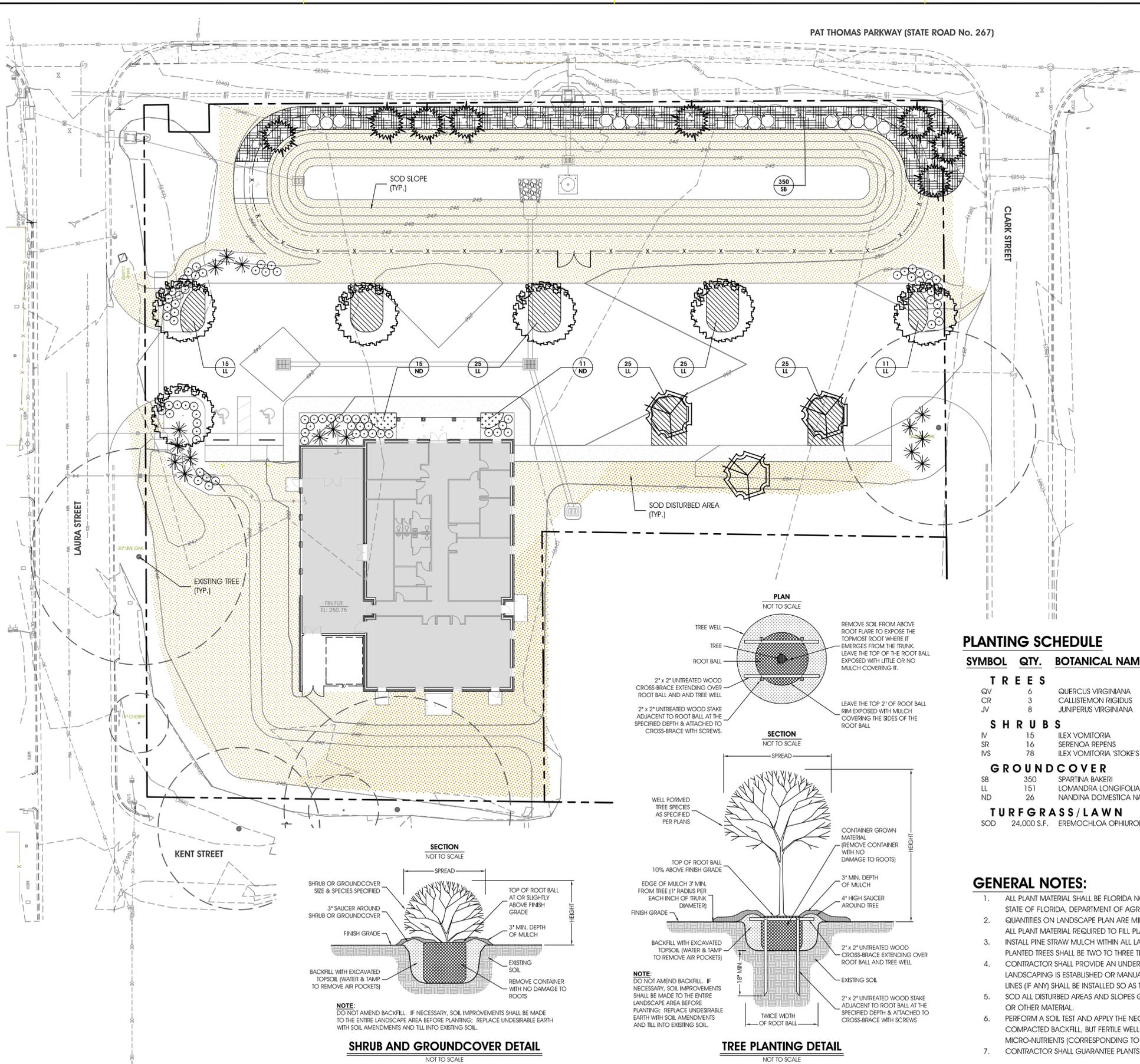
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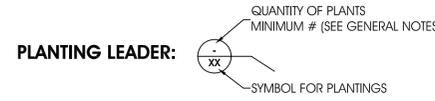
Drawing Title:
DRAINAGE DETAILS

Drawing No.:
C 801



LEGEND

- LIVE OAK
- BOTTLEBRUSH
- SOUTHERN RED CEDAR
- NATIVE YAUPON
- SAW PALMETTO
- DWARF YAUPON
- SAND CORDGRASS
- LOMANDRA LONGIFOLIA 'KATRINUS DELUXE'
- DWARF NANDINA
- SOD

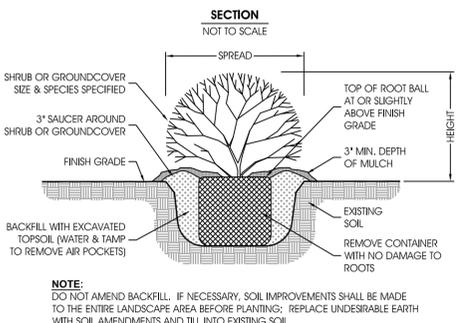
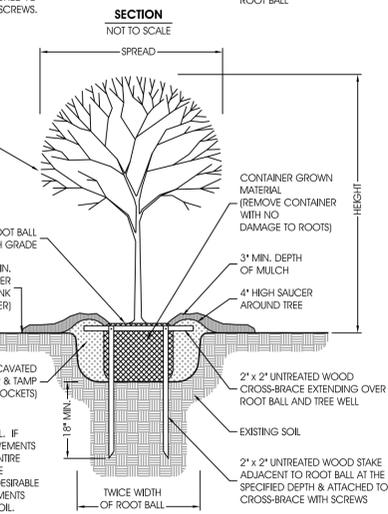
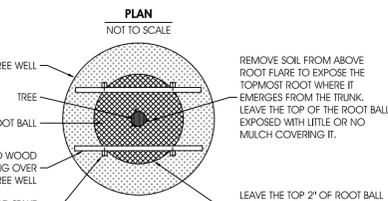


PLANTING SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/REMARKS
TREES				
QV	6	QUERCUS VIRGINIANA	LIVE OAK	8' HT. X 3-4" SPR., 2" CAL., 30 GAL
CR	3	CALLISTEMON RIGIDUS	BOTTLEBRUSH	6' HT. X 2-3" SPR., 1" CAL., 15 GAL
JV	8	JUNIPERUS VIRGINIANA	SOUTHERN RED CEDAR	6' HT. X 2-3" SPR., 1" CAL., 15 GAL
SHRUBS				
IV	15	ILEX VOMITORIA	NATIVE YAUPON	36" X 24", 7 GAL., 6" O.C.
SR	16	SERENOA REPENS	SAW PALMETTO	20" X 20", 7 GAL., 6" O.C.
IVS	78	ILEX VOMITORIA 'STOKE'S DWARF'	DWARF YAUPON	16" X 16", 3 GAL., 3" O.C.
GROUND COVER				
SB	350	SPARTINA BAKERI	SAND CORDGRASS	FULL, 1 GAL., 36" O.C.
LL	151	LOMANDRA LONGIFOLIA 'KATRINUS DELUXE'	LOMANDRA	FULL, 1 GAL., 36" O.C.
ND	26	NANDINA DOMESTICA NANA 'FIREPOWER'	DWARF NANDINA	FULL, 1 GAL., 24" O.C.
TURFGRASS/LAWN				
SOD	24,000 S.F.	EREMOCHLOA OPHIUROIDES	CENTPEDE GRASS	SOD ALL DISTURBED AREAS AND SLOPES GREATER THAN 4:1 UNLESS INDICATED TO CONTAIN SEED & MULCH, SHRUBS, GROUND COVER, MULCH OR OTHER MATERIAL.

GENERAL NOTES:

- ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS DESCRIBED IN "GRADES AND STANDARDS FOR NURSERY PLANTS," SECOND EDITION, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE.
- QUANTITIES ON LANDSCAPE PLAN ARE MINIMUM ONLY. CONTRACTOR IS RESPONSIBLE FOR HIS OWN QUANTITY TAKE-OFF, AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL PLANT BED AREA AT SPACING ON PLANT SCHEDULE.
- INSTALL PINE STRAW MULCH WITHIN ALL LANDSCAPE AREAS AT A MINIMUM OF 3" COMPACTED THICKNESS. THE MULCH LAYER AROUND NEWLY PLANTED TREES SHALL BE TWO TO THREE TIMES THE DIAMETER OF THE CROWN SPREAD, AT A MINIMUM OF 3" COMPACTED THICKNESS.
- CONTRACTOR SHALL PROVIDE AN UNDERGROUND PERMANENT IRRIGATION SYSTEM, AN ABOVE-GROUND TEMPORARY IRRIGATION SYSTEM UNTIL LANDSCAPING IS ESTABLISHED OR MANUALLY IRRIGATE FROM WATER SOURCE/WATER TRUCK UNTIL LANDSCAPING IS ESTABLISHED. ALL IRRIGATION LINES (IF ANY) SHALL BE INSTALLED SO AS TO NOT IMPACT THE ROOT ZONE OF PROTECTED TREES.
- SOD ALL DISTURBED AREAS AND SLOPES GREATER THAN 4:1 UNLESS INDICATED TO CONTAIN SEED & MULCH, SHRUBS, GROUND COVER, MULCH OR OTHER MATERIAL.
- PERFORM A SOIL TEST AND APPLY THE NECESSARY AMENDMENTS AND/OR FERTILIZER. THE PLANTING AREAS SHALL NOT BE UNSUITABLE COMPACTED BACKFILL, BUT FERTILE WELL-DRAINED LOAMY TOPSOIL WITH AN APPROPRIATE RATIO OF NITROGEN, POTASSIUM, PHOSPHORUS AND MICRO-NUTRIENTS (CORRESPONDING TO THE NEEDS OF A SOIL TEST).
- CONTRACTOR SHALL GUARANTEE PLANTS FOR A PERIOD OF ONE YEAR FROM TIME OF INSTALLATION.



SHRUB AND GROUND COVER DETAIL
NOT TO SCALE

TREE PLANTING DETAIL
NOT TO SCALE



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David L. Cowles, Jr., R.L.A.
FLORIDA REG. NO: LA666917

Revision		
No.	Description	Date
1		
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6		
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Drawn By: **DLC**
Checked By: **DLC**

Date: **10 JUNE 2015**

Project No.: **14033**

Drawing Title:
LANDSCAPE PLAN

Drawing No.: **LS1.0**

GENERAL NOTES

- 1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
6. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
7. LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
8. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
9. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERROR AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
10. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
A. CONCRETE MIX DESIGN(S)
B. REINFORCING STEEL SHOP DRAWINGS
C. STRUCTURAL STEEL SHOP DRAWINGS
D. PRE-ENGINEERED METAL BUILDING SYSTEM SHOP DRAWINGS
E. CONCRETE MASONRY UNIT MATERIAL SUBMITTALS
F. CFS FRAMING SHOP DRAWINGS AND CALCULATIONS
** OTHER SUBMITTALS MAY BE REQUIRED PER THE NOTES CONTAINED HEREIN.

- 11. ALL "STRUCTURAL SUBMITTALS" SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION, INSTALLATION AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEER'S SIGNATURE AND AN INDICATION THAT HE OR SHE CHECKED THE WORK.
12. DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SIGNED, SEALED AND DATED BY THE ENGINEER PREPARING SUCH WORK.

DESIGN CRITERIA

- 1. THE INTENDED DESIGN STANDARDS AND/OR CRITERIA ARE AS FOLLOWS:
GENERAL CONCRETE 2010 FLORIDA BUILDING CODE, BUILDING (FBC-B), W/ 2012 SUPPLEMENTS
STRUCTURAL STEEL ACI 318-08
MASONRY AISC 13TH EDITION (ASD)
COLD-FORMED STEEL ACI 530-08/ASCE 5-08/TMS 402-08
2007 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING
2. DESIGN SUPERIMPOSED GRAVITY DEAD LOADS USED IN THE DESIGN OF THE FOUNDATIONS, SLAB-ON-GRADE AND WALLS ARE AS FOLLOWS:
SOLAR PANELS 4 PSF
COLLATERAL (MAIN BLDG.) 13 PSF MAX./4 PSF MIN.
COLLATERAL (HVAC LAB/ENTRY) 9 PSF MAX./3 PSF MIN.
ALL OTHERS ACTUAL SELF-WT.
3. DESIGN SUPERIMPOSED GRAVITY LIVE LOADS USED IN THE DESIGN OF THE FOUNDATIONS, SLAB-ON-GRADE AND WALLS ARE AS FOLLOWS:
SLAB ON GRADE 125 PSF
ROOF 20 PSF (REDUCIBLE)
4. DESIGN LATERAL LIVE LOADS USED IN THE DESIGN OF THE FOUNDATIONS, SLAB-ON-GRADE AND WALLS ARE AS FOLLOWS:
WIND LOADS PER ASCE 7-10 (3-SEC GUST)
ULTIMATE WIND SPEED = 118 MPH
RISK CATEGORY II
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, Gcpi, = +/-0.18 (ENCLOSED)
*SEE COMPONENTS & CLADDING WIND LOAD DIAGRAMS AND PRESSURES ON SHEET S101.
5. THE FOUNDATIONS, SLAB-ON-GRADE AND WALLS HAVE BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE INTENDED DESIGN, FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE 13TH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC, ASD.
2. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS:
MEMBER ASTM MIN. STRENGTH
STRUCTURAL TUBING A500-13 (GRADE B) 46 KSI
WIDE FLANGE SHAPES A992-11 50 KSI
OTHER ROLLED PLATES/SHAPES A36-12 36 KSI
CONNECTION BOLTS A325-14 92 KSI
ANCHOR RODS F1554-07 36 KSI
THREADED RODS A36-12 36 KSI
NONSHRINK GROUT C1107-14 8000 PSI
3. ALL CONNECTIONS SHALL BE SIMPLE SHEAR TYPE CONNECTIONS AND SHALL UTILIZE THE MAXIMUM NUMBER OF ROWS AT 3 INCH STANDARD BOLT SPACING USING MINIMUM 3/4" DIAMETER A325-N BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE SHEAR/BEARING TYPE BOLTS AND BE "SNUG-TIGHT".
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE-STEEL (2010) D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER METAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 KSI.
5. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
6. ALL INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIMED WITH SSPC-PAINT 25, TYPE II, ZINC OXIDE, ALKYD, LINSEED OIL PRIMER AND COMPATIBLE TOPCOAT. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153-09.
7. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL STRUCTURAL NOTES").
8. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATION NOTES

- 1. ALL FOOTINGS HAVE BEEN DESIGNED USING AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF AS RECOMMENDED BY SOUTHERN EARTH SCIENCES, INC. GEOTECHNICAL REPORT, FILE NO. T14-149 DATED NOVEMBER 8, 2014. THE FOUNDATION SUB-SOIL SHALL BE CONSOLIDATED PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHERN EARTH SCIENCES, INC., DATED NOVEMBER 6, 2014. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
2. AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED FOR EACH ISOLATED FOOTING AND EACH 50 LINEAR FEET OF CONTINUOUS WALL FOOTING PER LIFT TO VERIFY DESIGN BEARING CAPACITIES.
3. ALL FOUNDATION CONCRETE SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 4% (+/-1.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260-10a.
4. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301-10, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.1-14. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.1-90 (2002).
5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615-14, GRADE 60.
6. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
A) CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH - 3"
B) CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS - 2"
#5 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"
7. ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES UNLESS OTHERWISE INDICATED.
8. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
9. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING AND NEW UTILITIES. FOUNDATIONS SHALL BE STEPPED OR SLEEVED AS REQUIRED TO AVOID UTILITIES.
10. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.

CONCRETE MASONRY NOTES

- 1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-08/ASCE 5-08/TMS 402-08)", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN.
2. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90-14, GRADE N AND BE MADE WITH MEDIUM WEIGHT AGGREGATE. THE MINIMUM f'm SHALL BE 2,000 PSI AT AN AGE OF 28 DAYS, AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530.1.
3. FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C476-10 AND SHALL OBTAIN A MIN. 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
4. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615-14, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT.
5. THE USE OF MASONRY-CEMENT MORTAR IS STRICTLY PROHIBITED. MORTAR SHALL CONFORM TO ASTM C270-14, TYPE S. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C270-14 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED).
6. UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND. BOND CORNERS AND INTERSECTIONS OF LOAD-BEARING WALLS.
7. PROVIDE VERTICAL REINFORCING BARS OF THE GIVEN SIZE AND SPACING AS INDICATED. PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES.
8. PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS SHALL HAVE STANDARD 90 DEGREE HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING.
9. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS INDICATED. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT BEARING ELEVATIONS.
10. ALL VERTICAL WALL REINFORCING SHALL BE EXTENDED TO WITHIN 2" OF THE TOP OF ALL WALLS.
11. PROVIDE STANDARD 9 GAUGE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER IN ALL WALLS. PROVIDE LADDER TYPE JOINT REINFORCING FOR ALL CONCRETE MASONRY. STOP ALL HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
12. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL DOOR AND WINDOW OPENINGS.
13. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION (SEE "GENERAL STRUCTURAL NOTES").
14. WALL CONTROL JOINTS SHALL BE SPACED NO MORE THAN 20 FEET APART AT 13-FEET 4-INCH HIGH WALLS AND 12 FEET APART AT 7-FEET 8 1/2-INCH HIGH WALLS. SEE LOCATIONS SHOWN ON THE FOUNDATION PLAN.

EXTERIOR COLD-FORMED METAL FRAMING

- 1. DESIGN, DETAIL AND ERECT EXTERIOR COLD-FORMED METAL FRAMING IN ACCORDANCE WITH THE GENERAL NOTES AND SPECIFICATIONS.
2. COLD-FORMED STEEL FRAMING DETAILS SHOWN ON CONTRACT DOCUMENTS REPRESENT THE MINIMUM DESIGN INTENT TO BE FOLLOWED. CONNECTIONS NOT DETAILED IN CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY FABRICATOR ACCORDING TO SPECIFICATIONS AND REQUIREMENTS HEREIN. THE MINIMUM DESIGN THICKNESS OF GAUGE OF EXTERIOR COLD-FORMED METAL FRAMING SHALL BE 43 MILS. NO EXCEPTIONS WILL BE ACCEPTED.
3. SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS SHOWING METHOD OF FABRICATION, ERECTION PROCEDURES, ATTACHMENT OF THE SYSTEM TO THE BUILDING, JOINTS, CONNECTIONS AND FRAMING. CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED, SEALED AND DATED BY A DELEGATED ENGINEER LICENSED IN THE STATE OF FLORIDA.
4. ALL COLD-FORMED STEEL SECTIONS, "C" STUDS, TRACKS, ANGLES AND STRAPS, AS SHOWN ON DRAWINGS AND DETAILS SHALL HAVE HOT DIPPED GALVANIZED STEEL COATING MEETING THE REQUIREMENTS OF ASTM A525-93 AND C955-11C WITH G-90 CLASS COATING AND A MINIMUM YIELD STRENGTH AS FOLLOWS:
54 MIL THICKNESS AND GREATER: Fy=50 KSI MIN.
43 MIL THICKNESS: Fy=33 KSI MIN.
ALL TRACKS TO HAVE SAME DESIGN THICKNESS AS STUDS WITH MINIMUM 1 1/4" LEGS.
5. DOOR AND WINDOW SILLS, HEADERS, AND JAMBS SHALL BE DESIGNED TO RESIST WIND FORCES ON TRIBUTARY WINDOWS AND DOORS AND TO TRANSMIT THE FORCES TO THE PRIMARY STRUCTURAL FRAME.
6. ALL JAMBS, HEADERS, AND OTHER BUILT-UP MEMBERS SHALL BE CONSTRUCTED USING UNPUNCHED MATERIAL.
7. ALL JAMB STUDS SHALL BE FASTENED TOGETHER TO FORM A CONTINUOUS BUILT-UP SECTION.
8. SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J429-14 GRADE 5; AND IFI-105-02. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766-86 (2008).
9. FIELD CUTTING OF COLD-FORM METAL FRAMING SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
10. LIMIT DEFLECTIONS OF STUDS BETWEEN SUPPORTS TO L/600 WHEN SUPPORTING MASONRY, L/360 WHEN SUPPORTING GYPSUM WALL BOARD OR PORTLAND CEMENT STUCCO AND L/240 FOR OTHER CONDITIONS.
11. ADD WEB STIFFENERS AT CONCENTRATED LOADS AS REQUIRED BY DESIGN.
12. ALL WELDERS SHALL BE CERTIFIED BY AWS FOR THIN METAL SECTIONS.

SLAB ON GRADE NOTES

- 1. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
2. ABOVE SUBGRADE, USE TERMITTE TREATED FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM 3/4 INCH DIAMETER. PLACE IN 8" LOOSE LIFTS AND COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR (ASTM D-1557). COMPACT PRIOR TO PLACEMENT OF NEXT LIFT.
3. FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF ONE FIELD DENSITY TEST (ASTM D1556-07 OR D2922-05) FOR EACH 2,000 SQUARE FEET OF SLAB AREA FOR EACH LIFT OF CONTROLLED FILL. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
4. ALL CONCRETE FOR SLAB-ON-GRADE SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. PLACE CONCRETE WITH A MAXIMUM 4" SLUMP +/-1 INCH AS MEASURED AT POINT OF DISCHARGE. REINFORCE WITH 6x6-W1.4xW1.4 WELDED WIRE REINFORCING. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 3% (+/-1.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260-10a, EXCEPT AT TROWEL-FINISHED FLOORS THE AIR CONTENT SHALL NOT EXCEED 3%.
5. FOR INTERIOR AND EXTERIOR SLABS PLACE VAPOR BARRIER BETWEEN SOIL AND BOTTOM OF SLAB. SEE SPECIFICATIONS FOR REQUIREMENTS.
6. ALL WELDED WIRE REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A185-02. LAP ADJOINING PIECES AT LEAST ONE FULL MESH.
7. SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINT, THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS FOLLOWS:
4" SLAB - FILL WITH FIELD MOLDED OR ELASTOMERIC SEALANT.
8. SEE THE CIVIL SITE PLAN AND ARCHITECTURAL DRAWINGS FOR WALKWAYS AND OTHER EXTERIOR SLABS NOT INDICATED ON THE STRUCTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6x6-W1.4xW1.4 WWR UNLESS OTHERWISE NOTED.
9. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301-10, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.1-14. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.1-90 (2002).
10. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, LIMIT THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR TO 100 FEET OR LESS. THE MAXIMUM SPACING OF CONTRACTION JOINTS SHALL BE 12' FOR 4" THICK SLABS UNLESS OTHERWISE NOTED.
11. THE ALTERNATE WIRES OF THE WELDED WIRE REINFORCING MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE". WITHOUT CUTTING THE ALTERNATE WIRES, THE STRENGTH OF THE WIRE WILL PREVENT THE SLAB FROM CRACKING (SEPARATING) AT THE JOINT AND THE SLAB MAY BEGIN TO CRACK ELSEWHERE.
12. THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WIRE REINFORCING) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER AND OWNER.
13. IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM, SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS NOT GREATER THAN SIDEWALK WIDTH UNLESS DETAILED ELSEWHERE.
14. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

PRE-ENGINEERED METAL BUILDING NOTES

- 1. THE ENTIRE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER IN CONFORMANCE TO THE PROVISIONS OF THE "FLORIDA BUILDING CODE" (2010 FBC-B W/ 2012 SUPPLEMENTS) AND THE "LOW-RISE BUILDING SYSTEMS MANUAL" AS PUBLISHED BY THE METAL BUILDING MANUFACTURER'S ASSOCIATION. WHERE THESE CRITERIA CONFLICT, THE MORE STRINGENT CRITERIA SHALL APPLY.
2. IT IS THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S RESPONSIBILITY TO DESIGN THE COMPLETE BUILDING SYSTEM (STEEL FRAMING, ANCHOR BOLTS, PURLINS, GIRTS, BRACINGS, CONNECTIONS, ROOFING, WALL PANELS, COMPONENTS, ATTACHMENTS, ETC.) THE MANUFACTURER SHALL SUBMIT A CERTIFICATION LETTER BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA STATING THAT THE BUILDING SYSTEM DESIGN MEETS THE INDICATED CODE, PERFORMANCE AND LOADING REQUIREMENTS.
3. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL HAVE THE INTERNATIONAL ACCREDITATION SERVICE (IAS) AC 472 ACCREDITATION FOR METAL BUILDINGS.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE ENTIRE METAL BUILDING SYSTEM FOR REVIEW. THE CONTRACTOR SHALL ALSO SUBMIT A COMPLETE STRUCTURAL DESIGN ANALYSIS OF THE BUILDING SYSTEM (FOR RECORD PURPOSES ONLY). THE SHOP DRAWING SUBMITTAL SHALL INCLUDE ALL ANCHOR BOLT REQUIREMENTS AND FOUNDATION REACTIONS. ALL SHOP DRAWING AND CALCULATION SUBMITTALS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA.
5. DESIGN LOADS TO BE USED IN CONNECTION WITH THE METAL BUILDING DESIGN ARE PER THE "DESIGN CRITERIA NOTES". IN ADDITION TO THE ACTUAL DEAD LOAD, AN ADDITIONAL COLLATERAL ROOF FRAMING DEAD LOAD SHALL BE INCLUDED AS SHOWN IN THE "DESIGN CRITERIA NOTES". COORDINATE ANY EQUIPMENT LOADS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PAY PARTICULAR ATTENTION TO THE CODE REQUIRED WIND LOADING REQUIREMENTS (WIND EXPOSURE CATEGORY, RISK CATEGORY, ETC.)
6. CALCULATIONS FOR FRAME DEFLECTIONS SHALL BE DONE USING ONLY THE BARE FRAME METHOD. REDUCTIONS BASED ON ENGINEERING JUDGEMENT USING THE ASSUMED COMPOSITE STIFFNESS OF THE BUILDING ENVELOPE SHALL NOT BE PERMITTED. DRIFT SHALL FOLLOW AISC'S "SERVICEABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS." CALCULATIONS SHALL BE SUBMITTED VERIFYING THAT THE ACTUAL DRIFT UNDER CODE REQUIRED LOADINGS DOES NOT EXCEED THE ALLOWABLE.
7. THE PRE-ENGINEERED MANUFACTURER SHALL PROVIDE ALL GIRTS, PURLINS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. ALL WALL SYSTEMS, SUCH AS METAL STUDS, STOREFRONTS, ETC. SHALL BE PROPERLY SUPPORTED BY THE METAL BUILDING SYSTEM. ALLOWABLE DEFLECTIONS OF COMPONENTS SHALL BE IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE (FBC-B) WITH 2012 SUPPLEMENTS.
8. THE FOUNDATION DESIGN IS BASED UPON THE "AMERICAN BUILDINGS" BUILDING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ANY REVISIONS REQUIRED AS A RESULT OF A CHANGE IN THE BUILDING MANUFACTURER, INCLUDING REDESIGN OF THE FOUNDATIONS.
9. THE SIZE, NUMBER AND PLACEMENT PATTERN OF ALL ANCHOR BOLTS SHALL BE DETERMINED BY THE PRE-ENGINEERED BUILDING MANUFACTURER. ANCHOR BOLT EMBEDMENTS ARE INDICATED ON THE DRAWINGS.
10. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED BY THE MANUFACTURER TO RESIST LATERAL LOADS AS FOLLOWS:
INTERIOR FRAME LINES - RIGID FRAMES (PINNED-BASED COLUMNS)
PERIMETER WALL LINES - BRACED BAYS OR PORTAL FRAMES
11. THE METAL BUILDING ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL STRUCTURAL NOTES").
12. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STEEL MEMBERS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD PROCEDURES.
13. THE FOUNDATIONS HAVE BEEN DESIGNED FOR THE REACTIONS SHOWN ON SHEET AB-7 OF THE SHOP DRAWINGS PROVIDED BY AMERICAN BUILDINGS, DATED 05/22/2015. THEY ARE BASED ON PINNED COLUMN BASES. NO "FIXED BASE" COLUMNS ARE PERMITTED WITHOUT THE ENGINEER'S WRITTEN APPROVAL.

STRUCTURAL NARRATIVE

THESE STRUCTURAL DOCUMENTS INCLUDE THE DESIGN OF THE PRE-ENGINEERED METAL BUILDING COLUMN FOOTINGS, SLAB-ON-GRADE AS NOTED, CMU WALL FOUNDATIONS, PARTITION SUPPORT STEEL AS NOTED AND THE EXTERIOR MASONRY WALLS TO PROVIDE LATERAL STABILITY OF THE PRE-ENGINEERED METAL BUILDING SYSTEM.



MARIANNA 850/482-3045 TALLAHASSEE 850/671-7221
Certificate No. EB-0005637 LB-006435 LC-0000277



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100% CONSTRUCTION DOCUMENTS

TALLAHASSEE COMMUNITY COLLEGE
GADSDEN COUNTY CENTER
222 PAT THOMAS PKWY
QUINCY, FLORIDA 32351

KIMBERLY M. HOLLOWAY, P.E.

FLORIDA LICENSE NO.: 69166

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Date: 10 JUNE 2015

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STRUCTURAL NOTES

Drawing No.: S100



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Drawing Title:
C&C WIND LOAD
DIAGRAMS AND
PRESSURES

Drawing No.: S101

COMPONENTS AND CLADDING WIND PRESSURES

ROOF ULTIMATE WIND PRESSURES FOR 4:12 SLOPE

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1	10	+16.0	-22.9
	20	+16.0	-22.3
	50	+16.0	-21.4
	100	+16.0	-20.8
2	10	+16.0	-39.9
	20	+16.0	-36.7
	50	+16.0	-32.5
	100	+16.0	-29.3
3	10	+16.0	-59.0
	20	+16.0	-55.2
	50	+16.0	-50.1
	100	+16.0	-46.3
2 O.H.	10	+16.0	-46.7
	20	+16.0	-46.7
	50	+16.0	-46.7
	100	+16.0	-46.7
	500	+16.0	-46.7
3 O.H.	10	+16.0	-78.5
	20	+16.0	-70.9
	50	+16.0	-60.7
	100	+16.0	-53.1
	500	+16.0	-53.1

"a"=8'-0"

ROOF ULTIMATE WIND PRESSURES FOR 1:12 ROOF

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1	10	+16.0	-25.0
	20	+16.0	-24.4
	50	+16.0	-23.6
	100	+16.0	-22.9
2	10	+16.0	-42.0
	20	+16.0	-37.6
	50	+16.0	-31.6
	100	+16.0	-27.2
3	10	+16.0	-63.3
	20	+16.0	-52.4
	50	+16.0	-38.0
	100	+16.0	-27.2
1&2 O.H.	10	+16.0	-36.1
	20	+16.0	-35.4
	50	+16.0	-34.6
	100	+16.0	-34.0
3 O.H.	10	+16.0	-59.4
	20	+16.0	-46.7
	50	+16.0	-29.8
	100	+16.0	-17.0

"a"=8'-0"

WALL ULTIMATE WIND PRESSURES AT 4:12 SLOPE

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
4	10	+25.0	-27.2
	20	+23.9	-26.0
	50	+22.4	-24.6
	100	+21.3	-23.4
	500	+18.7	-20.8
5	10	+25.0	-33.5
	20	+23.9	-31.3
	50	+22.4	-28.3
	100	+21.3	-26.0
	500	+18.7	-20.8

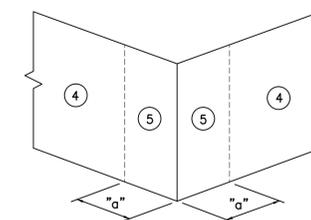
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WALL ULTIMATE WIND PRESSURES AT 1:12 SLOPE

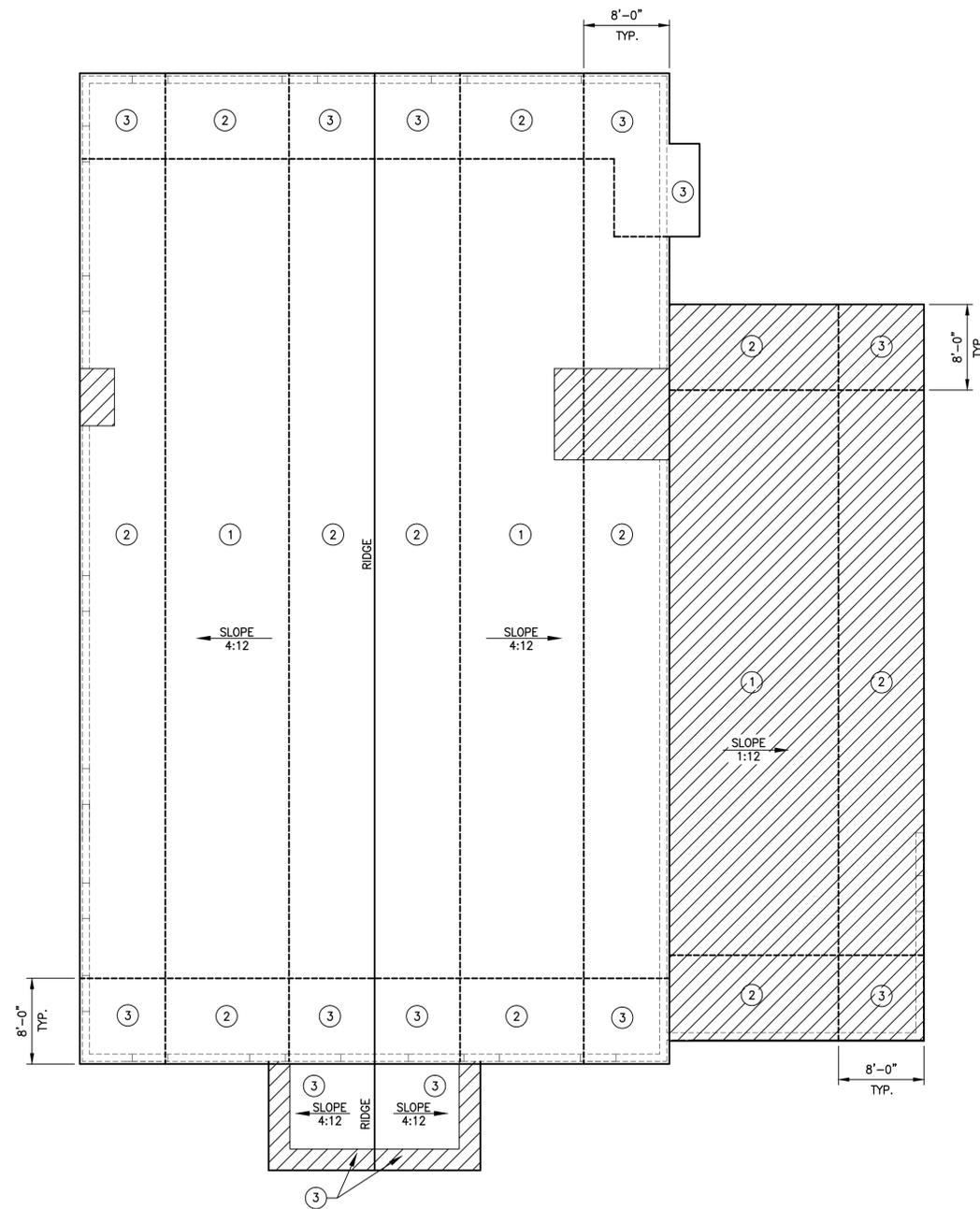
ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
4	10	+22.9	-24.8
	20	+21.9	-23.8
	50	+20.6	-22.5
	100	+19.6	-21.5
	500	+17.2	-19.1
5	10	+22.9	-30.6
	20	+21.9	-28.5
	50	+20.6	-25.9
	100	+19.6	-23.8
	500	+17.2	-19.1

"a"=8'-0"

C&C WALL DIAGRAM



LEGEND:
--- WIND LOAD SEPARATION
/// OVERHANG



C&C ROOF WIND LOAD DIAGRAM
1/8"=1'-0"

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FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCING	COMMENTS	
F2-6	2'-6"x2'-6"	2'-0"	(5) #5 x 2'-0" EACH WAY	(5) #5 x 2'-0" EACH WAY	---
F3-0	3'-0"x3'-0"	2'-0"	(5) #5 x 2'-6" EACH WAY	(5) #5 x 2'-6" EACH WAY	---
F3-6	3'-6"x3'-6"	2'-0"	(6) #5 x 3'-0" EACH WAY	(6) #5 x 3'-0" EACH WAY	---
F4-0	4'-0"x4'-0"	2'-0"	(7) #5 x 3'-6" EACH WAY	(7) #5 x 3'-6" EACH WAY	---
F4-6	4'-6"x4'-6"	2'-0"	(8) #5 x 4'-0" EACH WAY	(8) #5 x 4'-0" EACH WAY	---
F5-0	5'-0"x5'-0"	2'-0"	(9) #5 x 4'-6" EACH WAY	(9) #5 x 4'-6" EACH WAY	---
F6-0	6'-0"x6'-0"	2'-0"	(10) #5 x 5'-6" EACH WAY	(10) #5 x 5'-6" EACH WAY	---

SHEET LEGEND:

U.O.N. = UNLESS OTHERWISE NOTED.

A.F.F. = ABOVE FINISH FLOOR.

S.C. = INDICATES SAW CUT. (SEE SECTION 4/S400)

B.F.F. = BELOW FINISH FLOOR.

▣ = INDICATES VERTICAL BAR IN GROUTED CELL. INSTALL AT LOCATIONS SHOWN AND NOTED ON THE PLAN SHEETS.

T.O.F. = TOP OF FOOTING.

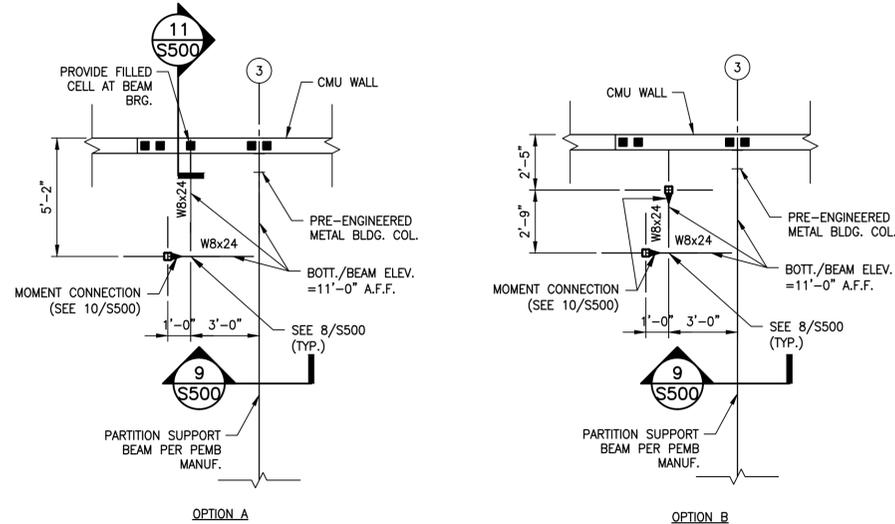
F.F. = FINISH FLOOR.

PLCS. = PLACES.

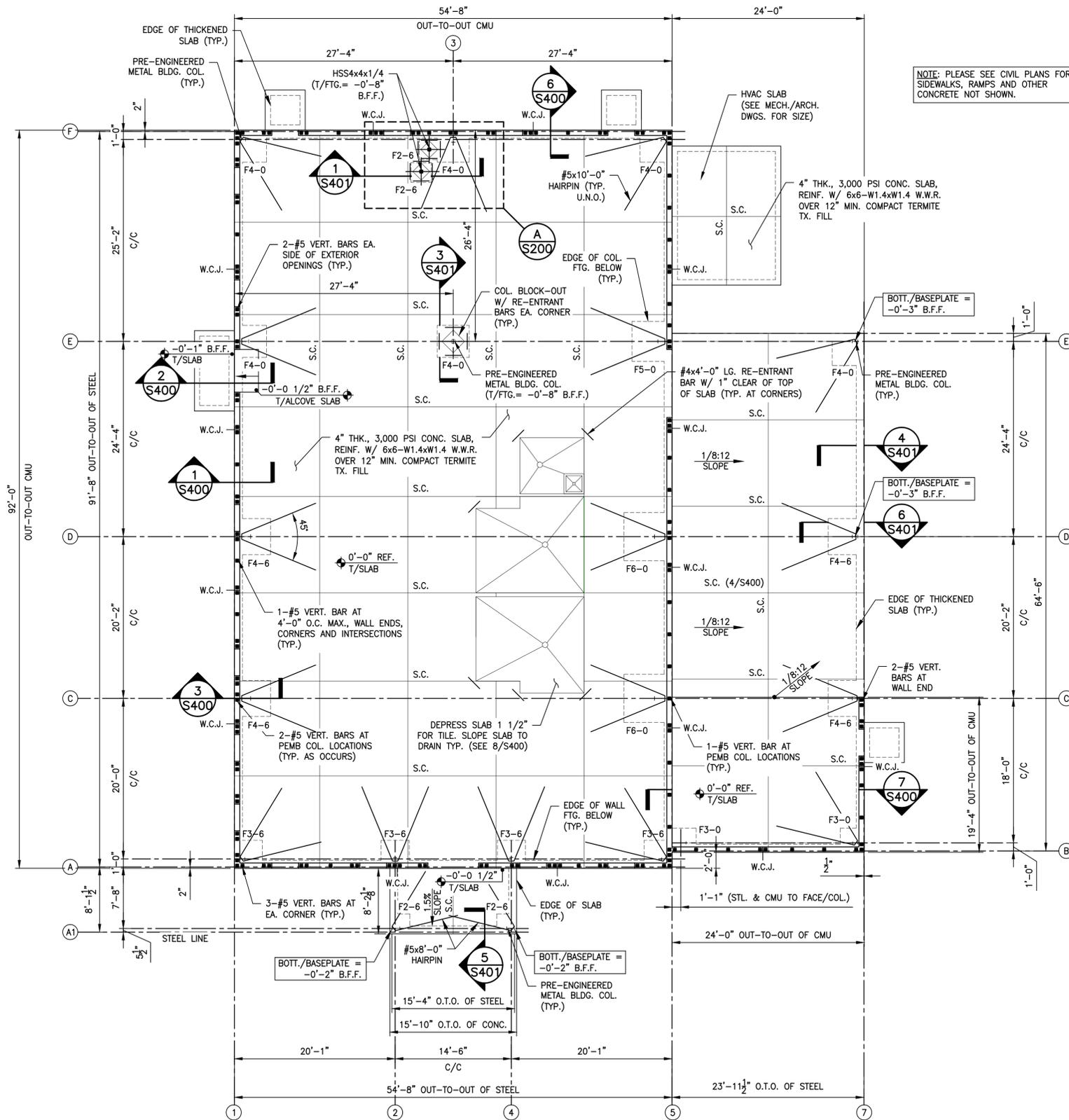
W.C.J. = INDICATES WALL CONTROL JOINT. (SEE SECTION 2/S500)

FOUNDATION NOTES:

- SEE FOUNDATION NOTES ON SHEET S100.
- SEE ARCHITECTURAL FOR WALLS AND DIMENSIONS NOT SHOWN.
- VERIFY DOOR OPENINGS AND LOCATIONS WITH ARCHITECTURAL.
- VERIFY DIMENSIONS AND LOCATIONS OF RECESSED SLABS WITH ARCHITECTURAL.
- ALL SLABS ARE AT +0'-0" REF. UNLESS NOTED OTHERWISE. SEE CIVIL DRAWINGS FOR FINISH FLOOR.



ENLARGED FRAMING PLAN
1/4" = 1'-0"



FOUNDATION PLAN
1/8" = 1'-0"

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KIMBERLY M. HOLLOWAY, P.E.

FLORIDA LICENSE NO.: 69166

Revision	Date	No.	Description

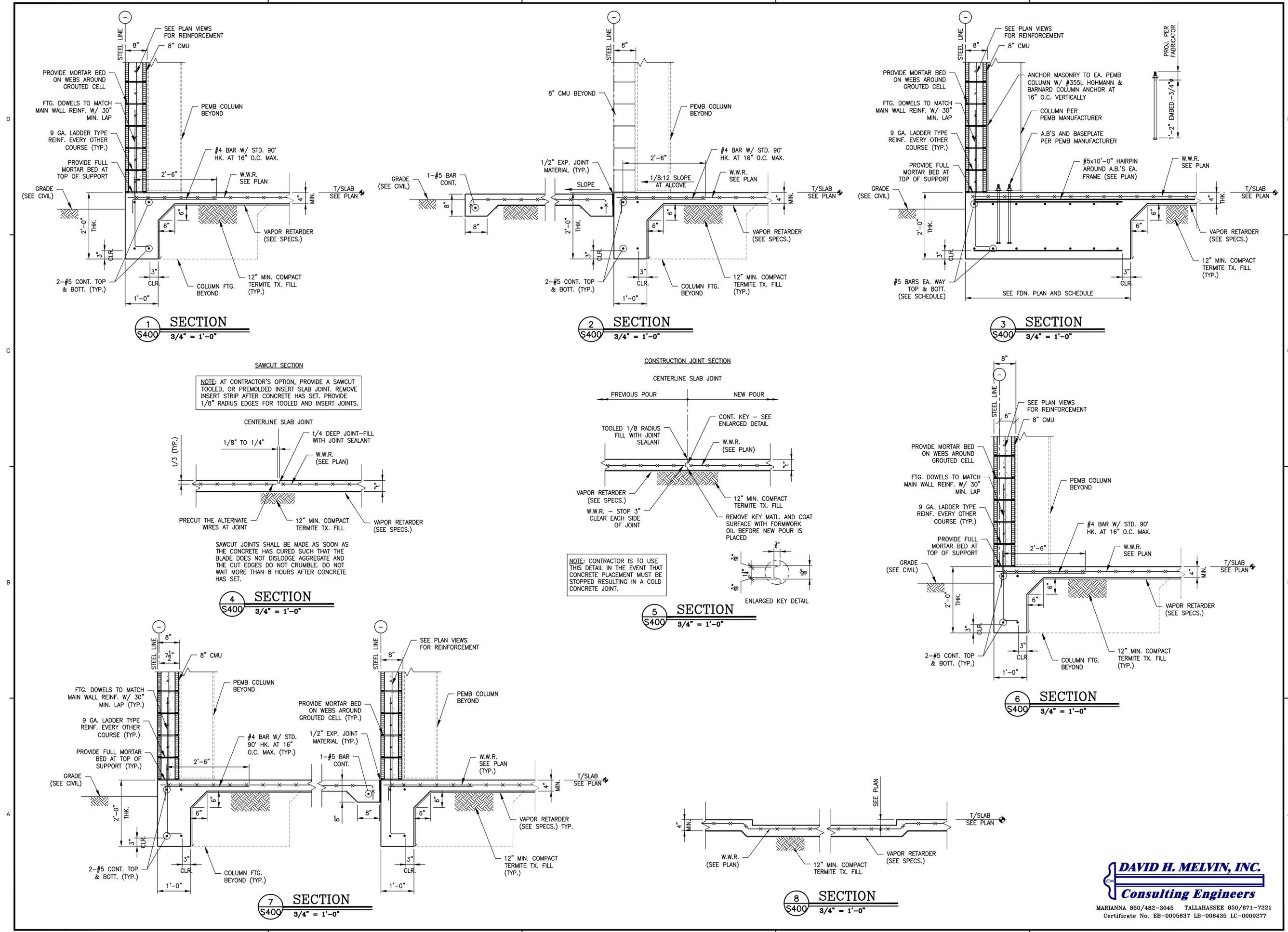
Drawn By: KMH
Checked By: KMH & OSM

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
FOUNDATION PLAN &
ENLARGED FRAMING
PLAN

Drawing No.: S200



dag
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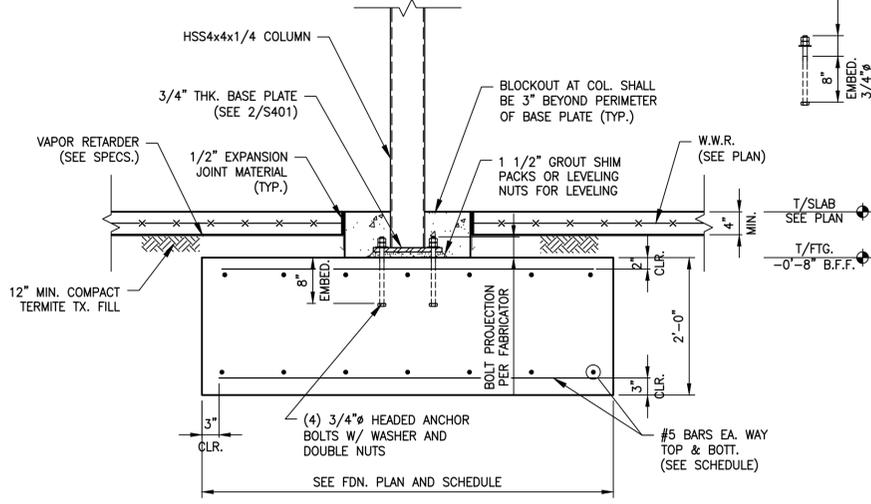
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FOUNDATION SECTIONS

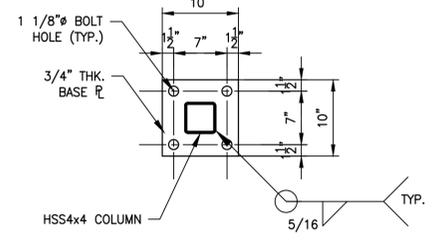
Drawing No.: S400

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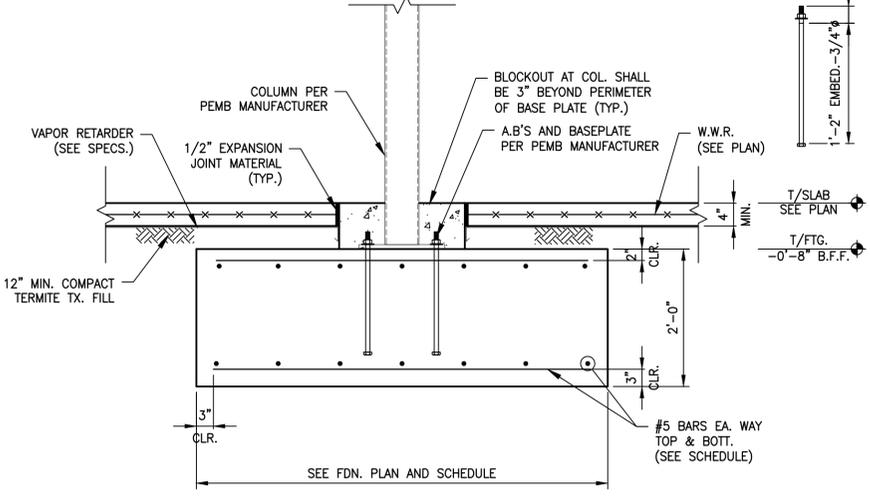
- TYPICAL ANCHOR BOLT NOTES:**
1. HEADED ANCHOR BOLTS: ASTM F 1554 HEAVY HEX, GRADE 36, STRAIGHT
 2. NUTS: ASTM A 563 HEAVY HEX CARBON STEEL
 3. PLATE WASHERS: ASTM A36 CARBON STEEL, 2x2x1/4 W/ STD. HOLE
 4. WASHERS: ASTM F 436 HARDENED CARBON STEEL



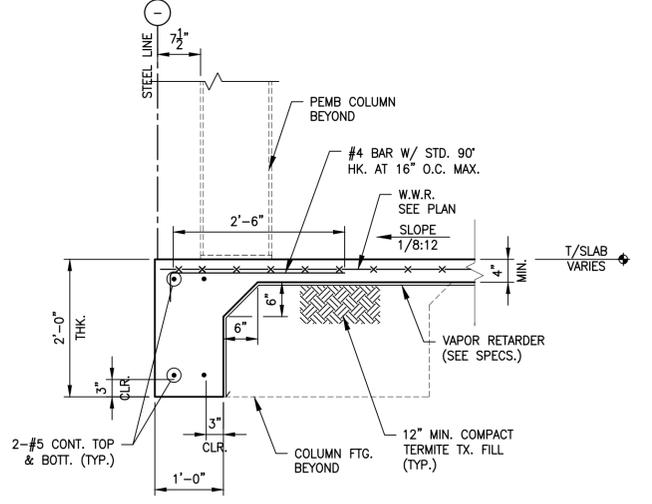
1 SECTION
S401 3/4" = 1'-0"



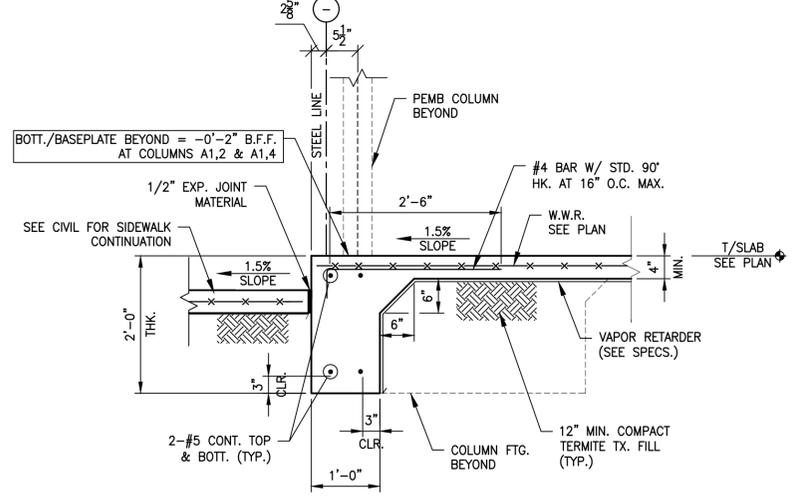
2 SECTION
S401 1" = 1'-0"



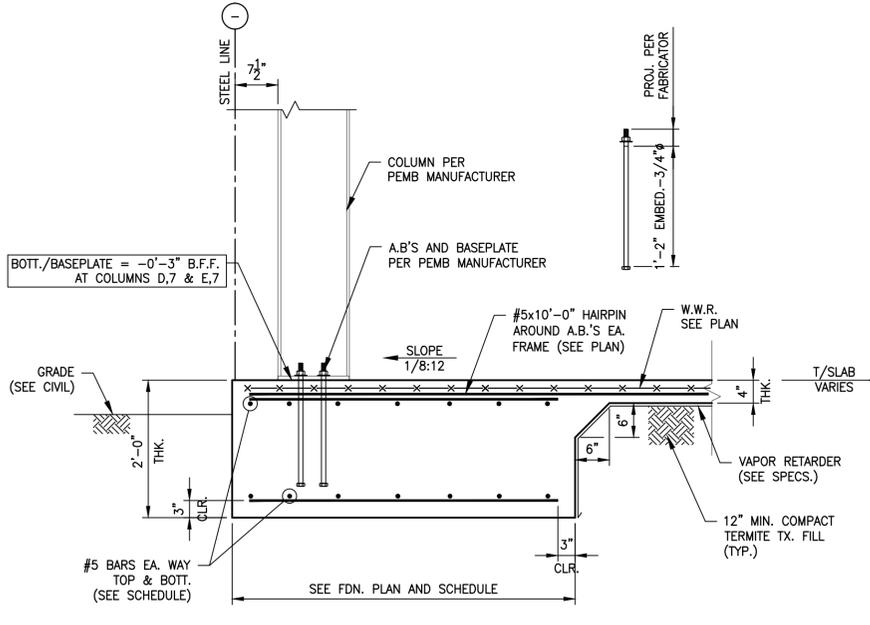
3 SECTION
S401 3/4" = 1'-0"



4 SECTION
S401 3/4" = 1'-0"



5 SECTION
S401 3/4" = 1'-0"



6 SECTION
S401 3/4" = 1'-0"



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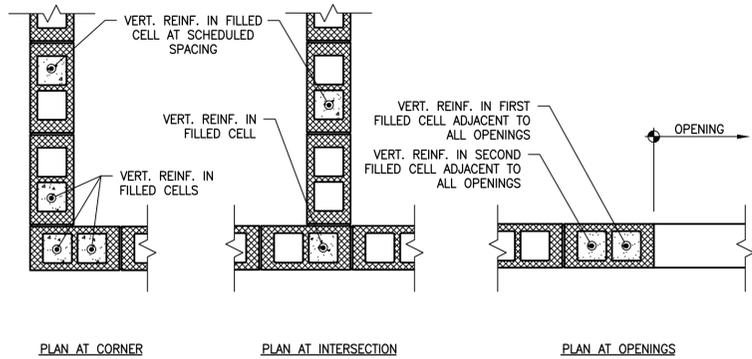
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FOUNDATION SECTIONS

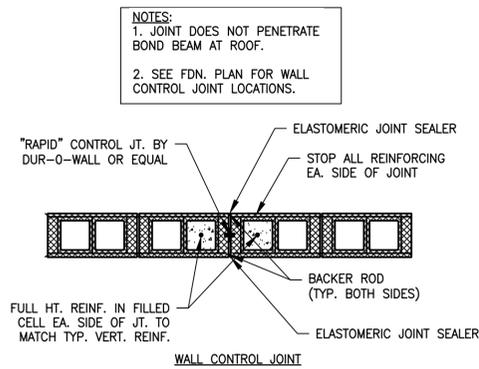
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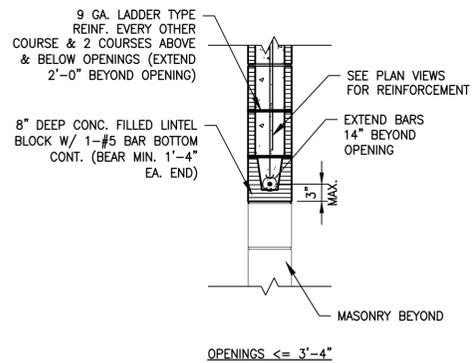
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1 SECTION
S500 3/4" = 1'-0"

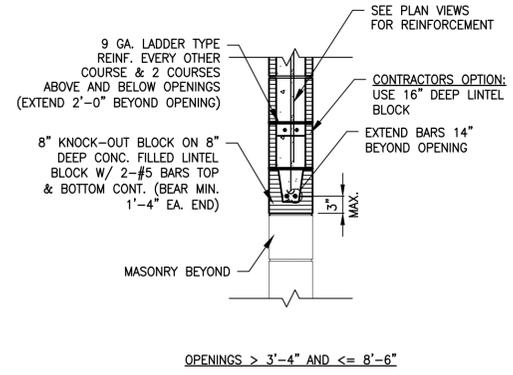


2 SECTION
S500 3/4" = 1'-0"



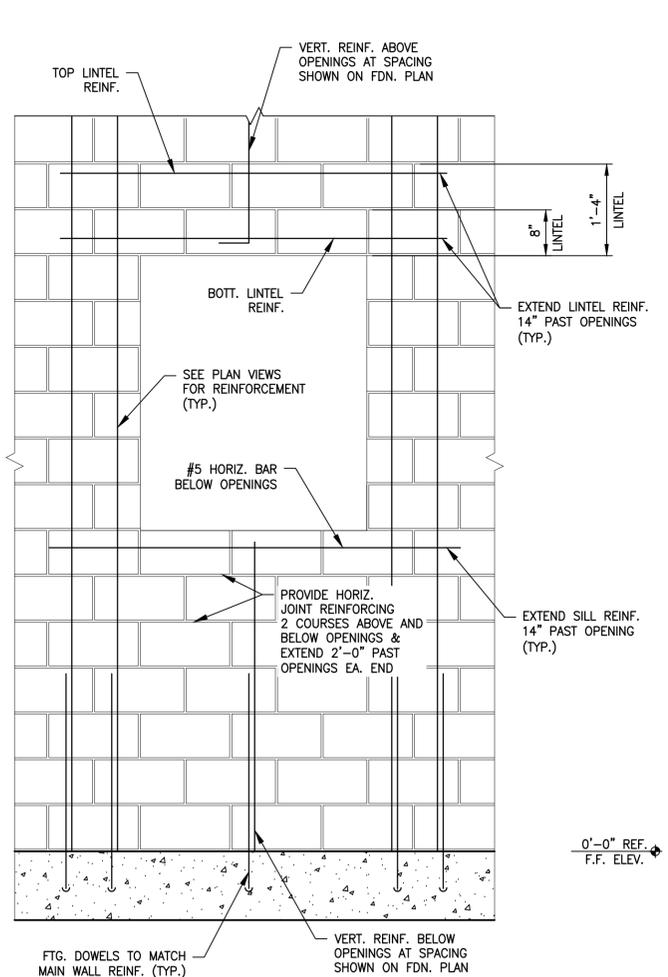
NOTES:
1. WHERE ADJACENT MASONRY OPENINGS ARE LESS THAN OR EQUAL TO 2'-8" APART, THE MASONRY LINTEL INCLUDING REINFORCING SHALL BE CONT. FULL SPAN OF ADJACENT OPENINGS PLUS END BEARING.
2. IF OPENING OCCURS WITHIN 16" OF WALL CORNER, INSTALL CORNER BARS IN ADDITION TO CONTINUOUS LINTEL REINFORCEMENT.

3 SECTION
S500 3/4" = 1'-0"

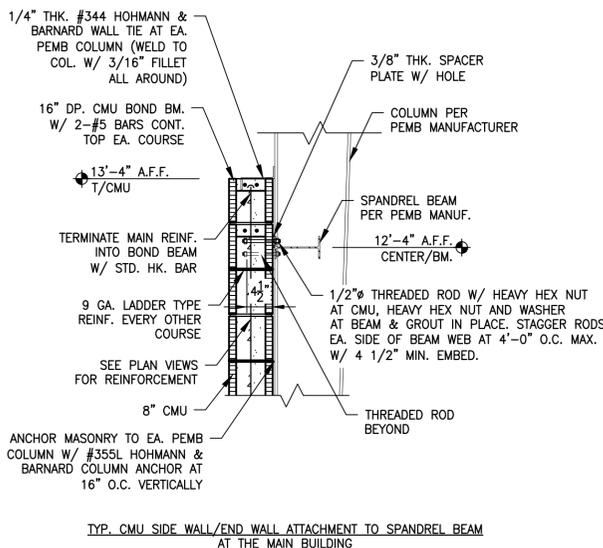


NOTES:
1. WHERE ADJACENT MASONRY OPENINGS ARE LESS THAN OR EQUAL TO 2'-8" APART, THE MASONRY LINTEL INCLUDING REINFORCING SHALL BE CONT. FULL SPAN OF ADJACENT OPENINGS PLUS END BEARING.
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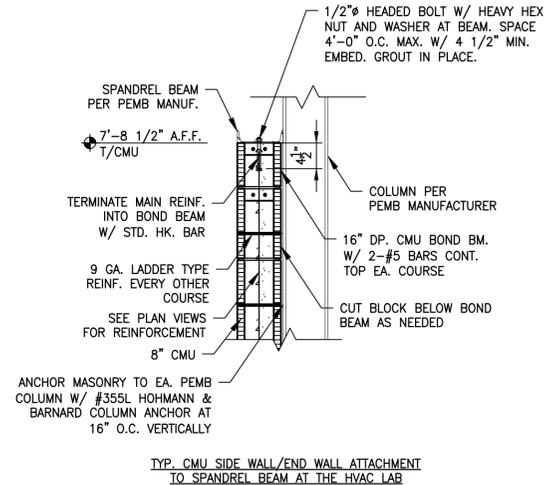
4 SECTION
S500 3/4" = 1'-0"



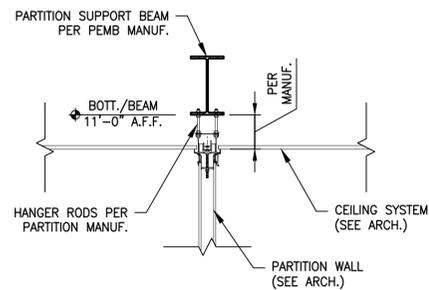
5 SECTION
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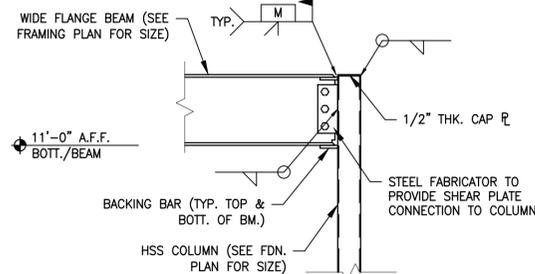
6 SECTION
S500 3/4" = 1'-0"



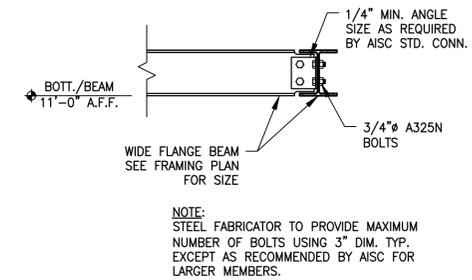
7 SECTION
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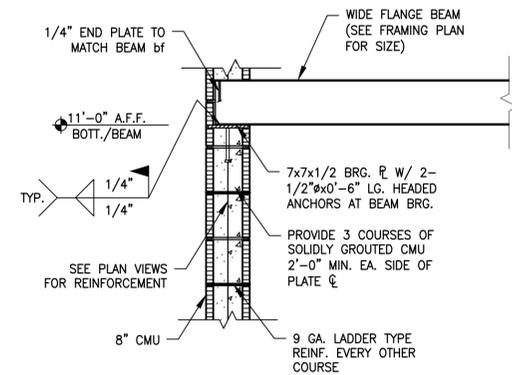
9 SECTION
S500 3/4" = 1'-0"



10 SECTION
S500 3/4" = 1'-0"



8 SECTION
S500 3/4" = 1'-0"



11 SECTION
S500 3/4" = 1'-0"

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FLORIDA LICENSE NO.: 69166

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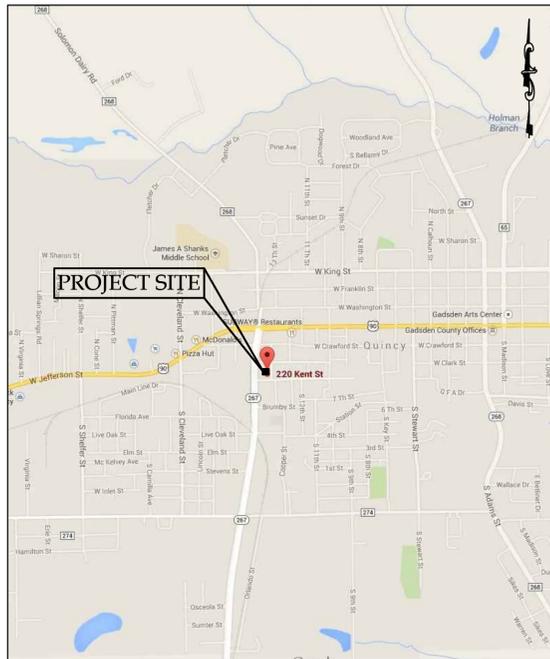
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MASONRY AND FRAMING SECTIONS

Drawing No.: S500

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KEVIN VAUGHN	TRUSTEE

GENERAL:

G001 Set Cover Sheet - Project Stats, Sheet Index, Design Team.

LIFE SAFETY:

LS101 Life Safety Plan and Code Summary

CIVIL:

C001 Civil Cover Sheet
 C002 General Notes
 C101 Existing Conditions
 C201 Erosion Control
 C301 Site Plan
 C401 Grading Plan
 C501 Drainage Plan
 C601 Utility Plan
 C701 Site Details
 C801 Drainage Details
 LS1.0 Landscape

STRUCTURAL:

S100 Structural Notes
 S101 C&C Wind Load Diagrams and Pressures
 S200 Foundation Plan & Enlarged Framing Plan
 S400 Foundation Sections
 S401 Foundation Sections
 S500 Masonry and Framing Sections

ARCHITECTURAL:

A010 Abbreviations and Symbol
 A020 Partition Types
 A101 Floor Plan
 A102 Reflected Ceiling Plan
 A103 Roof Plan
 A104 Enlarged Plans and Interior Elevations
 A201 Exterior Elevations
 A501 Door, Frame and Finish Schedule
 A601 Door and Window Details

PLUMBING:

P0.1 General Notes, Legends and Schedules - Plumbing
 P1.1 Floor Plan - Plumbing
 P5.1 Details - Plumbing

MECHANICAL:

M0.1 General Notes, Legends and Schedules - HVAC
 M0.2 Schedules - HVAC
 M1.1 Floor Plan - HVAC
 M5.1 Details - HVAC

ELECTRICAL:

E0.1 Legends - Electrical
 E0.2 General Notes and Schedules - Electrical
 E1.0 Site Plan - Electrical
 E1.1 Floor Plan - Lighting
 E2.1 Floor Plan - Power
 E3.1 Riser Diagram - Electrical
 E3.2 Riser Diagram - Systems
 E4.1 Panel Schedules - Electrical
 E5.1 Details - Electrical
 E5.2 Details - Electrical
 E5.3 Details - Electrical
 E5.4 Details - Electrical

B1 Vicinity Map

SCALE: NTS

OWNER CONTACTS:	ARCHITECT:	STRUCTURAL:	PLUMBING/MECHANICAL:	ELECTRICAL:
Tallahassee Community College Facilities Department 444 Appleyard Drive Tallahassee, Florida 32304-2895 Phone: 850-201-8520 Fax: 850-201-8518 PIC: David Wildes Email: wildesd@tcc.fl.edu	DAG Architects, Inc. 1223 Airport Road Destin, Florida 32541 Phone: 850-837-8152 Fax: 850-654-4276 PIC: Jack Baker, RA Email: jrbaker@dagarchitects.com Project Manager: Alex Gacic Email agacic@dagarchitects.com	David H. Melvin, Inc. 2541-1 Barrington Circle Tallahassee, Florida 32308 Phone: 850-671-7221 Fax: 850-671-7223 PIC: Kim Holloway, P.E. Email: kimholloway@melvineng.com	H2Engineering, Inc. 114 East Fifth Avenue Tallahassee, Florida 32303 Phone: 850-224-7922 Fax: 850-224-5876 PIC: Matt Scaringe, P.E. Email: mscaringe@h2engineering.com	H2Engineering, Inc. 114 East Fifth Avenue Tallahassee, Florida 32303 Phone: 850-224-7922 Fax: 850-224-5876 PIC: Matt Scaringe, P.E. Email: mscaringe@h2engineering.com
CIVIL & SURVEYING:	TELECOMMUNICATIONS:			
George & Associates 1967 Commonwealth Lane, Suite 200 Tallahassee, Florida 32303 Phone: 850-521-0344 Fax: 850-521-0345 PIC: Joesph W. Miller, P.E. Email: jmiller@gaceng.net	H2Engineering, Inc. 114 East Fifth Avenue Tallahassee, Florida 32303 Phone: 850-224-7922 Fax: 850-224-5876 PIC: Matt Scaringe, P.E. Email: mscaringe@h2engineering.com			

A1 Project Teams and Discipline Allocation

SCALE: NTS

A4 Project Sheet Index

SCALE: NTS



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Jack Baker
6/10/15

JACK DEYATTE BAKER, RA
AR 96312

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Date	No.	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
Cover Sheet
Sheet Index
Design Team

Drawing No.: **G001**

- CHAPTER 1 ADMINISTRATION**
 A. Applicable Building Codes
 a. Florida Building Code: Building (FBC-B) 2010 Edition w/ 2012 Supplements
 b. Florida Building Code: Accessibility (FBC-A) 2010 Edition w/ 2012 Supplements
 c. Florida Building Code: Energy Conservation (FBC-EC) 2010 Edition w/ 2012 Supplements
 d. Florida Building Code: Fuel Gas (FBC-FG) 2010 Edition w/ 2012 Supplements
 e. Florida Building Code: Mechanical (FBC-M) 2010 Edition w/ 2012 Supplements
 f. Florida Building Code: Plumbing (FBC-P) 2010 Edition w/ 2012 Supplements
 g. Florida Fire Prevention Code (FFPC) 2010 Edition w/ 2012 Supplements
 h. National Electric Code (NEC) 2011 Edition

CHAPTER 2 DEFINITIONS - Not Listed

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION

- One Tenant - Nonseparated Occupancy (508.3).
 A. Business Group B, Educational occupancy for students above the 12th grade
 B. Assembly Group A3

CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY - Not Used

CHAPTER 5 GENERAL HEIGHTS & AREAS

- A. Building Areas and Heights:
 a. Building Floor Area = 6,891 GSF
 Story(s) = 1 story
 Height = 19'-0"
 B. Allowable Heights and Building Areas (Table 503)
 Construction Type = II B (Chapter 6)
 Fire Resistant Rating = "0"
 Building Height Limit = 55'-0"
 Maximum Stories, Group A3 = 2
 Maximum Area per Floor, Group A3 = 9,500 SF

CHAPTER 6 TYPES OF CONSTRUCTION

- A. Construction Classification
 Type II B (Section 602.5)
 B. Fire Resistant Rating Requirements (hours) For Building Elements (Table 601) - Type II B:
 a. Structural Frame = 0 hours
 b. Bearing Walls - Exterior = 0 hours
 c. Bearing Walls - Interior = 0 hours
 d. Non-bearing walls and partitions - Exterior = See Table 602
 1. <5 = 1 hours
 2. >=5 to <10 = 1 hours
 3. >=10 to <20 = 0 hours
 4. >=20 to <30 = 0 hours
 5. >=30 = 0 hours
 e. Non-bearing walls and partitions - Interior = 0 hours
 f. Floor Construction = 0 (e,i) hours
 1. (e) = not applicable
 2. (i) = not applicable
 g. Roof Construction = 0 hours

CHAPTER 7 FIRE-RESISTANT RATED CONSTRUCTION

CHAPTER 8 INTERIOR FINISHES

- A. Interior Wall and Ceiling Finish Requirements (Table 803.9) - Group A3
 a. Exit Enclosures and Passageways = A
 b. Corridors = B
 c. Rooms and enclosed spaces = C

CHAPTER 9 FIRE PROTECTION SYSTEMS

CHAPTER 10 MEANS OF EGRESS

- A. Occupant Load (Table 1004.1.1)
 Business Areas - (100 gross) = 736 gsf / 100 = 8 persons
 Storage Areas - (300 gross) = 502 gsf / 300 = 2 persons
 Classroom Areas - (20 net) = 1,640 nsf / 20 = 82 persons
 Lab Areas - (50 net) = 1,818 nsf / 50 = 37 persons
 Total Area = 5,315 sf = 129 persons

B. Egress Width Section 1005.1

- a. Stairways = 0.3" per occupant
 b. Other Egress components = 0.2" per occupant

C. Common Path of Egress Travel (Section 1014.3)

- a. Group A3 = 20 feet maximum

D. Exit and Exit Access Doorways (1015)

- a. Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:
 1. Occupant load of the space exceeds values in Table 1015.1
 2. The common path of egress travel exceeds the limitations of Section 1014.3

E. Spaces with One Means of Egress (Table 1015.1)

- a. Maximum Occupant Load, Occupancy A3 = 49 persons

F. Exit Access Travel Distance (Table 1016.1)

- a. Occupancy A3 = 200 feet maximum

G. Corridor Fire Resistant Rating (Table 1018.1)

- a. Occupancy A3 - Greater than 30 = 1 Hour

I. Corridor Width (Section 1018.2)

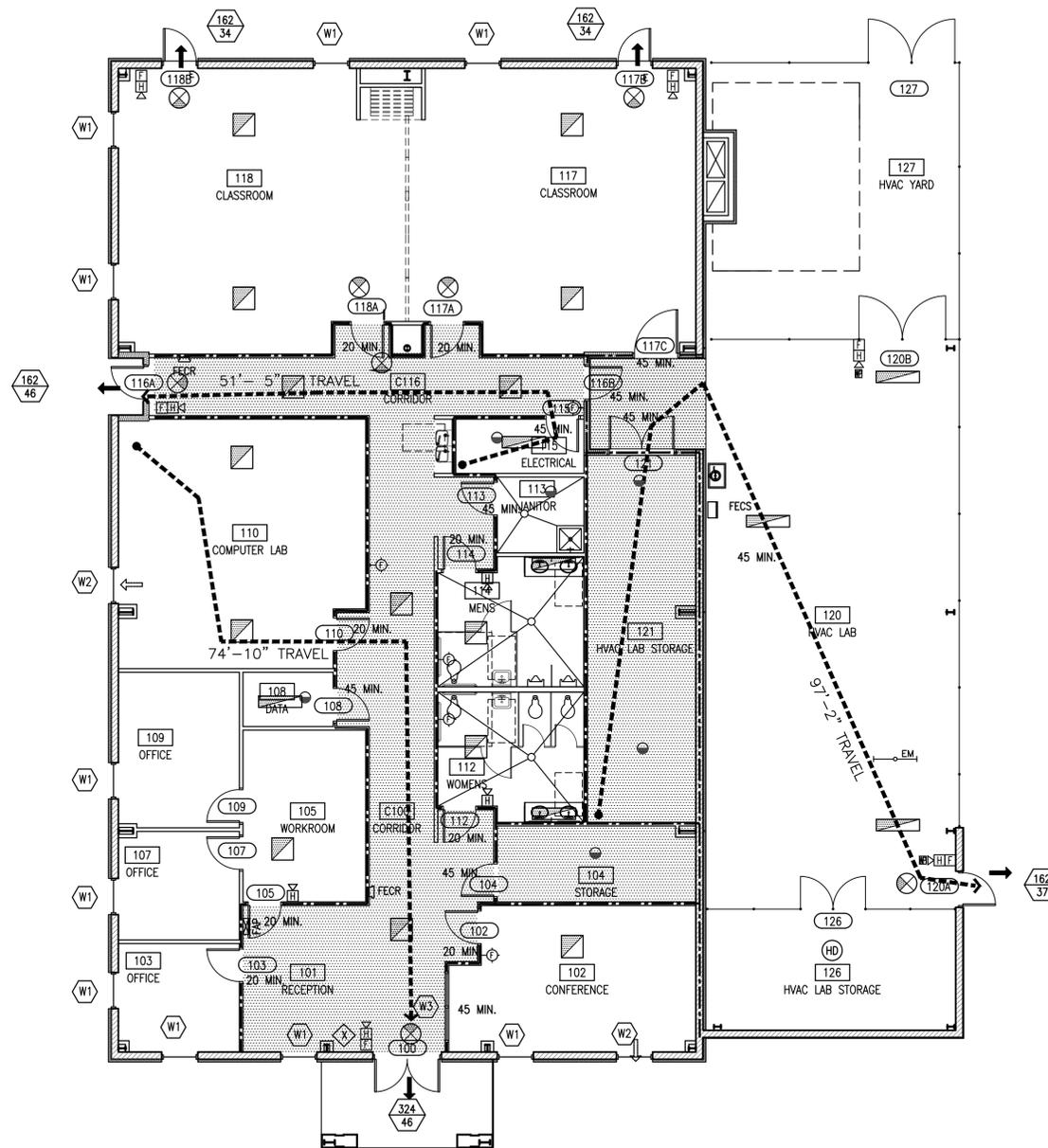
- a. Corridor Width 44" Min.

J. Dead Ends (Section 1018.4)

- a. Group A3 = 20'-0" Max.

K. Minimum Number of Exits for Occupant load (Table 1021.1)

- a. Occupant Load 1-500 persons = 2 exits



LIFE SAFETY LEGEND

- ← EXIT OR EXIT ACCESS
- ⇐ EMERGENCY ESCAPE & RESCUE OPENING
- PATH OF TRAVEL, DISTANCE AND DIRECTION
- 162/34 MIN. DOOR WITH A FIRE RATING LABEL
- 20/ MIN. DOOR WITH A FIRE RATING LABEL
- ONE HOUR RATED WALL U423
- ONE HOUR RATED CEILING U465
- ROOM NUMBER
- ROOM NAME
- 928/28 ROOM SQUARE FOOTAGE
- ROOM OCCUPANT LOAD
- 162/32 EXIT CAPACITY
- EXIT LOAD
- FECs FIRE EXTINGUISHER CABINET SURFACE MOUNTED
- FECR FIRE EXTINGUISHER CABINET SEMI-RECESSED
- EMERGENCY LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- SMOKE DETECTOR
- HEAT DETECTOR
- LIGHTED EXIT SIGN WITH LED EMERGENCY LIGHT
- FIRE ALARM STROBE ONLY
- FIRE ALARM HORN STROBE
- FIRE ALARM WEATHERPROOF HORN
- FIRE ALARM PULL STATION
- FIRE ALARM PANEL
- EMERGENCY EVACUATION ROUTE SIGN



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 6/10/15

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Revision		
Date:	No.	Description:

Drawn By: -
 Checked By: -

Date: 10 JUNE 2015

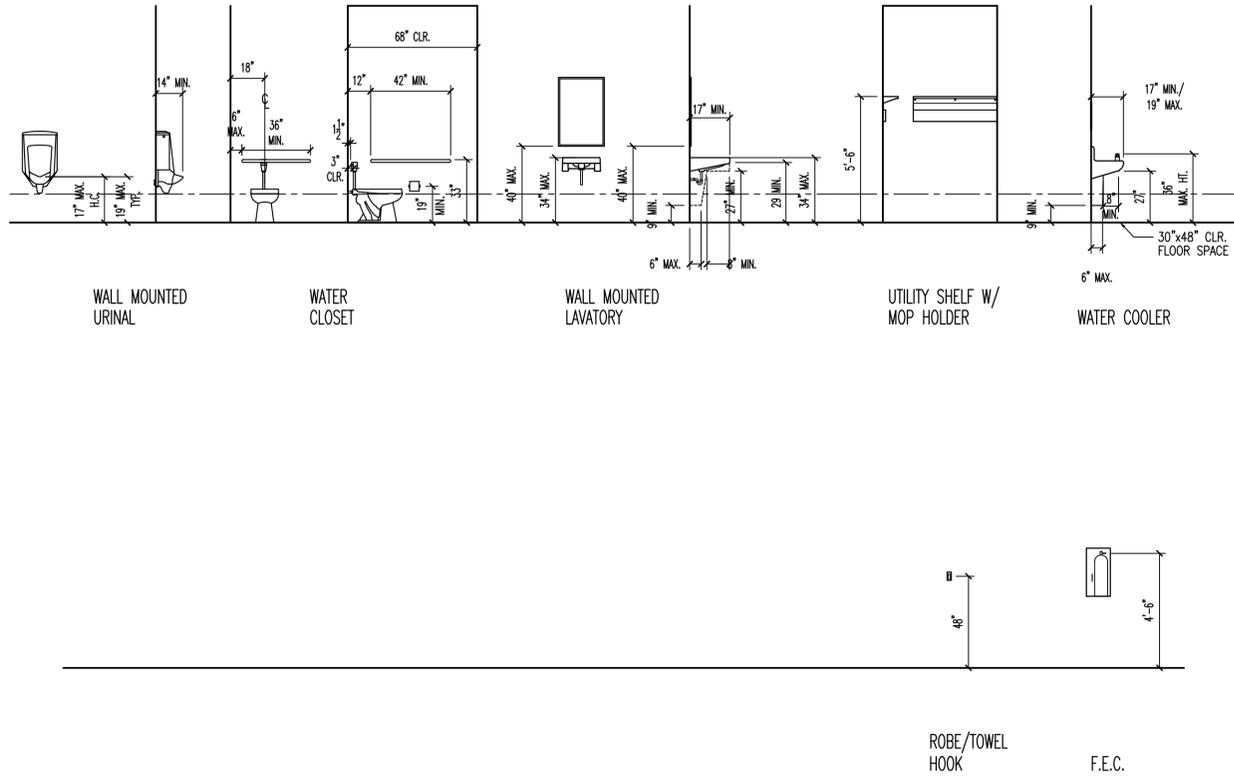
Project No.: 14033

Drawing Title:
 LIFE SAFETY PLAN
 AND CODE SUMMARY

Drawing No.: LS101

B2	LIFE SAFETY PLAN	B5	LEGEND
SCALE: 1/8"=1'-0"		SCALE: NTS	
AHERA STATEMENT FEDERAL ASBESTOS HAZARD EMERGENCY RESPONSE ACT UNDER FBC CHAPTER 4, 423.8.6 AND THE FEDERAL ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA 40 CFR, PART 763, AS REVISED JULY 1, 1995, PROHIBITS THE USE OF ANY ASBESTOS CONTAINING MATERIAL IN PUBLIC EDUCATION CONSTRUCTION PROJECTS AND REQUIRES CERTIFICATION OF SAME BY ARCHITECT OF RECORD.	STATEMENT OF COMPLIANCE TO THE BEST OF MY KNOWLEGE THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.	LIFE SAFETY NOTES 1. EXIT UNITS/EXIT DOOR LEAF = 36". ACTUAL CLEAR WIDTH = 32.5". 32.5" DIVIDED BY 0.20"/PERSON = 162 PEOPLE/LEAF 2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.	
A1	CODE SUMMARY	A2	STATEMENT
SCALE: NTS		SCALE: NTS	
A3	STATEMENT	A5	NOTES
SCALE: NTS		SCALE: NTS	

- 0' DENOTES FINISH FLOOR
- 10' DENOTES DISTANCE BELOW FINISH FLOOR
- 27.8' FINISH FLOOR ELEVATION
- 27.8' SPOT ELEVATION
- METAL STUD WALL, SEE FLOOR PLAN FOR THICKNESS
- WALL TYPE KEY
- GRID KEY XX XX.X SHEET APPEARS ON
- GRID KEY XX XX.X SHEET APPEARS ON
- GRID KEY XX XX.X SHEET APPEARS ON
- GRID KEY XX XX.X SHEET APPEARS ON
- WINDOW TYPE W1 WINDOW TYPE
- DOOR NUMBER XXX DOOR NUMBER
- STOREFRONT NUMBER SF-1 STOREFRONT DESIGNATION
- SHEET LARGE SCALE PLAN OCCURS ON A112 LARGE SCALE PLAN
- ROOM NUMBER XXX ROOM NAME



B1
SCALE: N.T.S.

SYMBOLS / LEGEND

B3
SCALE: N.T.S.

TYPICAL MOUNTING HEIGHTS

ALM	ALARM	DBL	DOUBLE	GC	GENERAL CONTRACTOR	MFR	MANUFACTURER	QTY	QUANTITY	S	SOUTH
AFF	ABOVE FINISHED FLOOR	DHW	DOUBLE HUNG WINDOWS	GALV	GALVANIZED	MFR REC	MANUFACTURER'S RECOMMENDATION	QTR	QUARTER	SQ	SQUARE
ACT	ACOUSTICAL CEILING TILE	DMPF	DAMP PROOFING	GL	GLASS	MRT	MARBLE THRESHOLD	R	RADIUS	SF	SQUARE FOOT(FEET)
AWT	ACOUSTICAL WALL TREATMENT	DEMO	DEMOLITION	GFRG	GLASS-FIBER-REINFORCED GYPSUM	MO	MASONRY OPENING	RLG	RAILING	SQ YD	SQUARE YARD
ADJ	ADJUSTABLE	DET	DETAIL	GR FL	GROUND FLOOR	MBR	MASTER BEDROOM	REC	RECESSED	SST	STAINLESS STEEL
A/C	AIR CONDITION	DIA	DIAMETER	GDR	GUARD RAIL	MAX	MAXIMUM	REF	REFERENCE	SS	STANDING SEAM (ROOF)
AHU	AIR HANDLING UNIT	DIM	DIMENSION	GYM	GYMNASIUM	MECH	MECHANICAL	ROL	ROOF DRAIN LEADER	STL JST	STEEL JOIST
ALUM	ALUMINUM	DS	DOWN SPOUT	GYP BD	GYPSUM BOARD	MEMB	MEMBRANE	RCP	REFLECTED CEILING PLAN	STL RF DK	STEEL ROOF DECK
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	GL BLK	GLASS BLOCK	MWP	MEMBRANE WATERPROOFING	REIN	REINFORCE	ST	STREET
ARCH	ARCHITECT	EB	EXPANSION BOLT	HC	HANDICAP	MTL	METAL	REIN	REINFORCE	TMPD GL	TEMPERED GLASS
BALC	BALCONY	EWC	ELECTRIC WATER COOLER	HT	HEIGHT	MD	METAL DECK	REQD	REQUIRED	TEMP	TEMPORARY
BR	BEDROOM	EA	EACH	HMD	HOLLOW METAL DOOR	METD	METAL DOOR	REV	REVISION	THK	THICKNESS
BM	BENCHMARK	E	EAST	HMDF	HOLLOW METAL DOOR AND FRAME	METF	METAL FLASHING	RH	RIGHT HAND	TO	TOP OF _____
BITUM	BITUMINOUS	EL	ELEVATION	HMF	HOLLOW METAL FRAME	MEZZ	MEZZANINE	RDG INS	RIGID INSULATION, SOLID	TOB	TOP OF BEAM
BD	BOARD	EQ	EQUAL	HORIZ	HORIZONTAL	MID	MIDDLE	RDL	ROOF DRAIN LEADER	TOS	TOP OF STEEL
BOT	BOTTOM	EQUIP	EQUIPMENT	HB	HOSE BIB	MIN	MINIMUM	RD	ROOF DRAIN	TN	TRUE NORTH
BRKT	BRACKET	EXH	EXHAUST	HC	HOSE CABINET	MISC	MISCELLANEOUS	RH	ROOF HATCH	TYP	TYPICAL
BI FLD DR	BIFOLDING DOORS	EXIST	EXISTING	H&CW	HOT AND COLD WATER	MLDG	MOLDING(MOULDING)	RO	ROUGH OPENING		
BLDG.	BUILDING	EJ	EXPANSION JOINT	HW	HOT WATER	MS	MOP SINK	RB	RUBBER BASE		
		EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	INCL	INCLUDED	N	NORTH	SAN	SANITARY	UCD	UNDERCUT DOOR
CW	CASEMENT WINDOW			INFO	INFORMATION	NA	NOT APPLICABLE	SCHED	SCHEDULE	UR	URINAL
CBB	CEMENTITIOUS (BACKER) BOARD			INSUL	INSULATION	NTS	NOT TO SCALE	SCP	SCUPPER	VAP PRF	VAPOR PROOF
CAB	CABINET	FOS	FACE OF STUD	ID	INSIDE DIAMETER	NO	NUMBER	SLNT	SEALANT	VR	VAPOR RETARDER
CPT	CARPET	FT	FEET	INSUL	INSULATION	ORD	OVERFLOW ROOF DRAIN	SMLS	SEAMLESS	VTR	VENT THROUGH ROOF
CTR	CENTER	FIN	FINISH			OH DR	OVERHEAD (COILING) DOOR	SHT	SHEET	VIF	VERIFY IN FIELD
C	CENTER LINE	FIN FLR	FINISH FLOOR	JAN CLO	JANITOR CLOSET	OF/CI	OWNER FURNISHED INSTALLED	SH	SHEET METAL	VERT	VERTICAL
C/C	CENTER TO CENTER	FIN GR	FINISH GRADE	LAM	LAMINATE	OF/OI	OWNER FURNISHED/ OWNER INSTALLED	SHV	SHELVING	VB	VINYL BASE
CT	CERAMIC TILE	FO	FINISHED OPENING	LAM GL	LAMINATED GLASS			SH	SHINGLES	VCT	VINYL COMPOSITION TILE
CTB	CERAMIC TILE BASE	FA	FIRE ALARM	LAV	LAVATORY			SD	SHOP DRAWINGS	VFAT	VINYL FACED ACOUSTICAL TILE
CH BD	CHALKBOARD	FE	FIRE EXTINGUISHER	LT GA	LIGHT GAGE	PNT	PAINT	SHR	SHOWER	WC	WATER CLOSET
CR	CLOSET ROD	FEC	FIRE EXTINGUISHER CABINET	LWC	LIGHTWEIGHT CONCRETE	PR	PAIR	SHRD	SHOWER DRAIN	WH	WATER HEATER
CH	COAT HOOK	FHC	FIRE HOSE CABINET	LD BRG	LOAD-BEARING	PNL	PANEL	SHR HD	SHOWER HEAD	WPM	WATERPROOF MEMBRANE
COL	COLUMN	FLR FIN	FLOOR FINISH	LVR	LOUVER	PERIM	PERIMETER	SKLT	SKYLIGHT	WH	WEEP HOLE
CLL	COLUMN LINE	FD	FLOOR DRAIN			PLAM	PLASTIC LAMINATE	SGD	SLIDING GLASS DOOR	WWF	WELDED WIRE FABRIC
CMU	CONCRETE MASONRY UNIT	FS	FLOOR SINK			PWR	POWER	SCMU	SOLID CONCRETE MASONRY UNIT	WGL	WIRED GLASS
CSB	CONCRETE SPLASH BLOCK	FLUOR	FLUORESCENT			PCC	PRE CAST CONCRETE	SCWD	SOLID CORE WOOD DOOR	W/	WITH
CJ	CONCRETE JOINT					PT	PRESSURE TREATED	STC	SOUND TRANSMISSION CLASS	WD	WOOD
										WDF	WOOD DOOR AND FRAME

A1
SCALE: N.T.S.

ABBREVIATIONS

B4
SCALE: N.T.S.



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Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
ABBREVIATIONS AND SYMBOL

Drawing No.: **A010**

1

1 HOUR FIRE WALL — PRIORITY 1 HIGHEST
NON-RATED WALL — PRIORITY 2

PROVIDE ALL RATED WALLS IN ACCORDANCE WITH UL LISTING AND FBC FOR CMU, MANUFACTURER'S RESTRICTIONS AND APPROVED HOURS DETAILS. REFER TO PLANS FOR TYPE, LOCATION, AND EXTENT OF ALL RATED WALLS.

F1 WALL PRIORITY LEGEND
SCALE: 1-1/2"=1'-0" TYPE #

1HR FIRE
CEILING LINE
(REFER TO PLANS FOR APPROPRIATE LOCATIONS)

1 HOUR FIRE BARRIER PROTECT ALL OPENINGS
NON-RATED SMOKE BARRIER PROTECT ALL OPENINGS

THE ABOVE STENCIL SHALL BE LOCATED AT 10'-0" INTERVALS ABOVE CEILING AT FIRE PARTITIONS AND EXIT ENCLOSURES NO LESS THAN ONCE FOR EACH SPACE.

E1 FIRE RATED STENCIL
SCALE: 1-1/2"=1'-0" TYPE #

5/8" FIRE RATED TYPE "X" GYP BD ON METAL STUDS - SEE FLOOR PLANS FOR STUD SIZES

JOINT TREATMENT

2" SOUND ATTENUATION BLANKET WHERE REQUIRED - REFER TO PLANS

D1 ONE HOUR PARTITION INTERSECTION
SCALE: 1-1/2"=1'-0" TYPE #

1'-0" MIN.

SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT

WHERE PARTITION INCLUDES SOUND INSULATION, PROVIDE INSULATION BEHIND ELECTRICAL BOX

ELECTRICAL OUTLETS AND SWITCHES ON OPPOSITE SIDES OF WALL SHALL NOT BE IN SAME STUD CAVITY

C1 TYPICAL ELEC. AND COMM. BOXES AT ALL PARTITIONS
SCALE: 1-1/2"=1'-0" TYPE #

CAULK

FIREPROOFING

CAULK

B1 GYP. BD. CONTROL JOINTS
SCALE: 1-1/2"=1'-0" TYPE #

A1 TYPE #
SCALE: 1-1/2"=1'-0"

2

SOUND INSULATION

PROVIDE SOUND INSULATION (3" SOUND ATTENUATION BLANKETS) AT METAL STUD WALLS SURROUNDING THE FOLLOWING ROOMS:

102 CONFERENCE
103 OFFICE
107 OFFICE
109 OFFICE
112 WOMEN
114 MEN
117 CLASSROOM
118 CLASSROOM

BRACING AT 4'-0" O.C. MAX., BRACE TO METAL BUILDING STRUCTURE

METAL STUDS AT 16" O.C.

SOUND BATT INSULATION

SEE NOTES THIS SHEET FOR LOCATION OF SOUND INSULATION

SOUND INSULATION EACH SIDE OF WALL ON TOP OF CEILING 2'-0" DISTANCE WHERE SOUND INSULATION OCCURS IN WALL

FINISH CEILING, WHERE APPLICABLE

5/8" GWB BOTH SIDES - USE WATER RESISTANT GWB AT RESTROOMS/TOILETS AND CUSTODIAL CLOSETS.

BASE CONTINUOUS FLOOR RUNNER WITH ANCHORS AT 2'-0" O.C.

ACOUSTICAL SEALANT FINISH FLOOR

VARIES REFER TO REFLECTED CEILING PLAN

A2 3 5/8" METAL STUD WITH ONE LAYER OF 5/8" GWB EACH SIDE. EXTEND BOTH SIDES TO 6" ABOVE THE HIGHEST ADJACENT CEILING AND BRACE TO STRUCTURE ABOVE. SEE NOTES THIS SHEET FOR LOCATION OF SOUND INSULATION.

A2A 6" METAL STUD WITH ONE LAYER OF 5/8" GWB EACH SIDE. EXTEND BOTH SIDES TO 6" ABOVE THE HIGHEST ADJACENT CEILING AND BRACE TO STRUCTURE ABOVE. SEE NOTES THIS SHEET FOR LOCATION OF SOUND INSULATION.

A2 TYPICAL METAL STUD PARTITION (NON RATED)
SCALE: 1-1/2"=1'-0"

3

BRACING AT 4'-0" O.C. MAX., BRACE TO METAL BUILDING STRUCTURE

METAL STUDS AT 16" O.C.

SOUND BATT INSULATION

FINISH CEILING

5/8" TYPE X GWB BOTH SIDES - USE WATER RESISTANT GWB AT RESTROOMS/TOILETS AND CUSTODIAL CLOSETS.

BASE CONTINUOUS FLOOR RUNNER WITH ANCHORS AT 2'-0" O.C.

ACOUSTICAL SEALANT FINISH FLOOR

13'-4" REFER TO REFLECTED CEILING PLAN

A3 3 5/8" METAL STUD WITH ONE LAYER OF 5/8" TYPE X GWB EACH SIDE. EXTEND BOTH SIDES TO ABOVE FINISHED CEILING AND CONSTRUCT RATED LID EXTENDING FROM ONE RATED WALL TO THE RATED WALL ON THE OPPOSITE SIDE OF THE CORRIDOR TO CREATE A RATED TUNNEL.

A3A 6" METAL STUD WITH ONE LAYER OF 5/8" TYPE X GWB EACH SIDE. EXTEND BOTH SIDES TO ABOVE FINISHED CEILING OR ROOF DECK AND CONSTRUCT RATED LID EXTENDING FROM ONE RATED WALL TO THE RATED WALL ON THE OPPOSITE SIDE OF THE CORRIDOR TO CREATE A RATED TUNNEL. COORDINATE WITH INSTALLATION OF EFIS

A3 METAL STUD PARTITION AND LID (1 HR - UL U465)
SCALE: 1-1/2"=1'-0"

4

EFIS BASE & FINISH COATS

REINFORCEMENT MESH

3" RIGID INSULATION

WATERPROOF MEMBRANE

CMU 1 HR RATED WHERE NOTED

A4 TYPICAL EXTERIOR WALL
SCALE: 1-1/2"=1'-0"

5

EFIS BASE & FINISH COATS

REINFORCEMENT MESH

WATERPROOF MEMBRANE

CMU

A5 EXTERIOR WALL HVAC LAB ONLY
SCALE: 1-1/2"=1'-0"

dag

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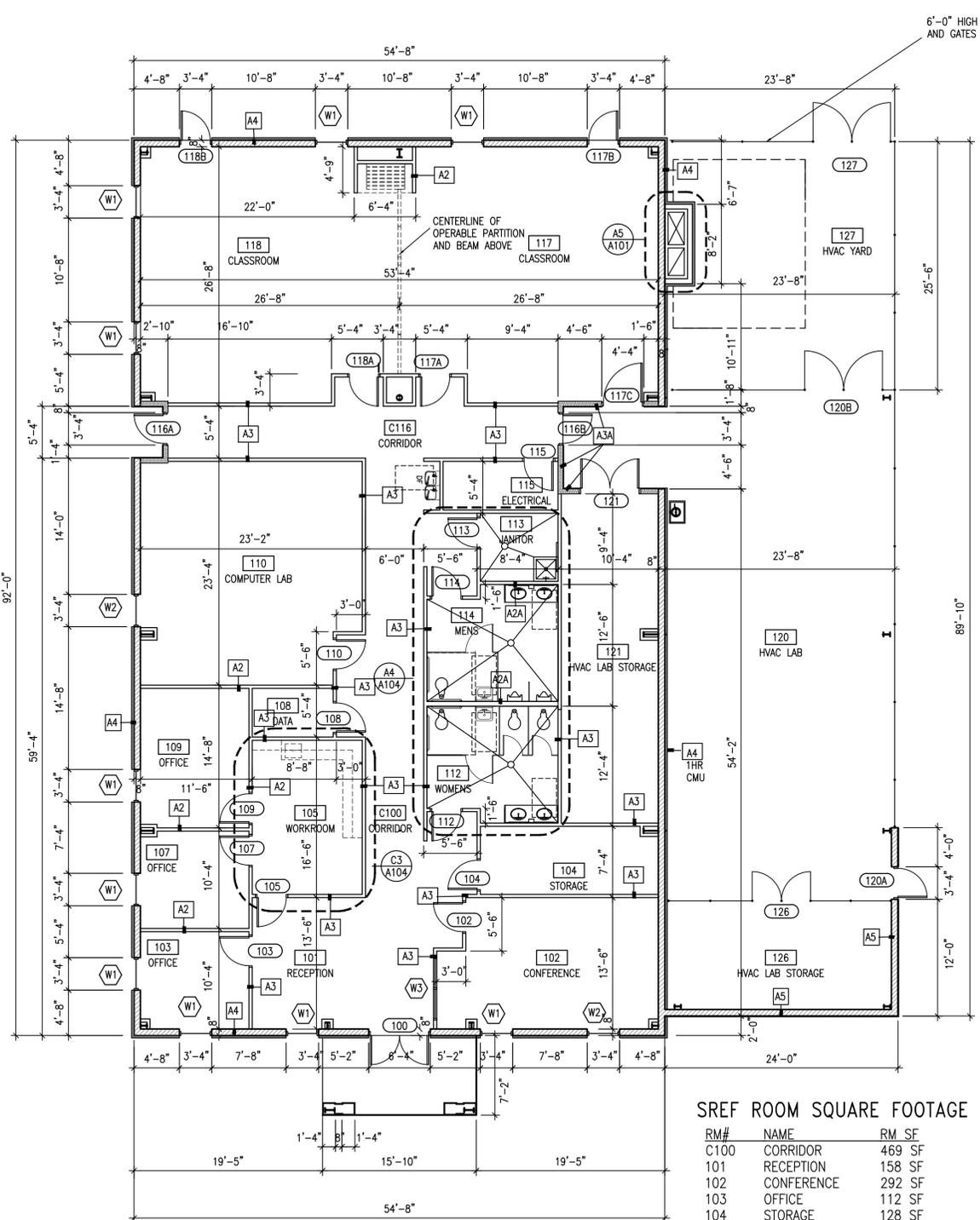
Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
PARTITION TYPES

Drawing No.: **A020**



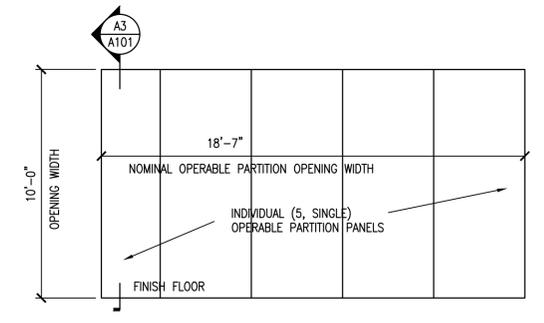
FLOOR PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES**
- SEE SHEET A010 FOR PARTITION TYPES AND DETAILS.
 - SEE SHEET A501 FOR ROOM FINISH SCHEDULE.
 - SEE SHEET A501 FOR DOOR AND FRAME SCHEDULE.
 - SEE SHEET A501 FOR WINDOW SCHEDULE.

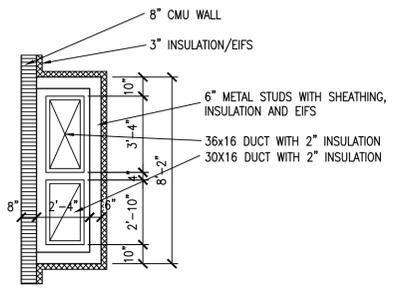
SREF ROOM SQUARE FOOTAGE TABLE

RM#	NAME	RM SF
C100	CORRIDOR	469 SF
101	RECEPTION	158 SF
102	CONFERENCE	292 SF
103	OFFICE	112 SF
104	STORAGE	128 SF
105	WORKROOM	180 SF
107	OFFICE	112 SF
108	DATA	42 SF
109	OFFICE	161 SF
110	COMPUTER LAB	508 SF
112	WOMENS	154 SF
113	JANITOR	56 SF
114	MENS	154 SF
115	ELECTRICAL	59 SF
C116	CORRIDOR	244 SF
117	CLASSROOM	669 SF
118	CLASSROOM	656 SF
120	HVAC LAB	1226 SF
121	HVAC LAB STORAGE	340 SF
126	HVAC LAB STORAGE	260 SF

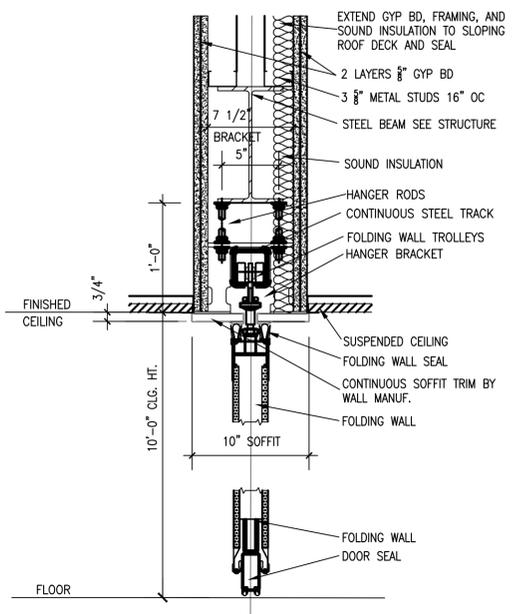
6'-0" HIGH CHAIN LINK FENCE AND GATES



A2 OPERABLE PARTITION
SCALE: 1/4"=1'-0"



A3 HVAC DUCT ENCLOSURE
SCALE: 1/4"=1'-0"



A3 OPERABLE PARTITION HEAD
SCALE: 1 1/2"=1'-0"



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Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:

FLOOR PLAN

Drawing No.: **A101**

1

2

3

4

5

GENERAL CEILING NOTES

1. SEE FINISH SCHEDULE AND BUILDING SECTIONS FOR CEILING HEIGHTS A.F.F.
2. CONTRACTOR SHALL COORDINATE FIXTURE LOCATION AND TYPE WITH THE ELECTRICAL DRAWINGS
3. CONTRACTOR SHALL COORDINATE ALL LIFE SAFETY SYSTEMS, SIGNAGE, FIXTURES AND ALARMS WITH THE ELECTRICAL DRAWINGS.
4. COORDINATE LOCATION OF MECHANICAL DIFFUSERS, GRILLS, AND DAMPERS W/ MECHANICAL DRAWINGS, ELECTRICAL, AND LIFE SAFETY PLANS.
5. SEE LIFE SAFETY PLANS FOR THE LOCATION OF RATED WALL AND FLOOR TO CEILING ASSEMBLIES.

D2

RCP GEN. NOTES

SCALE: NTS

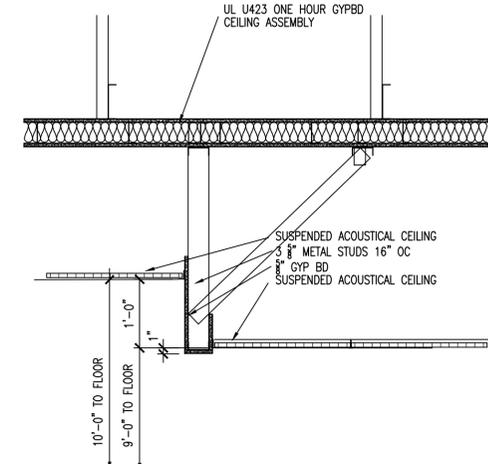


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A1
A102
CEILING SECTION
SCALE: 3/4"=1'-0"

CEILING TYPES AND MATERIALS

- TYPICAL 2' X 2' SUSPENDED CEILING GRID WITH ACOUSTICAL CEILING PANELS
- SUSPENDED GYPSUM BOARD CEILING
- TYPICAL 2' X 2' SUSPENDED CEILING GRID WITH ACOUSTICAL CEILING PANELS W/ ONE HOUR FIRE RATED UL U423 GYPBD CEILING ABOVE.
- EXPOSED TO STRUCTURE CEILING
- METAL STUD AND GYPBD HEADER FOR CEILING HEIGHT TRANSITION

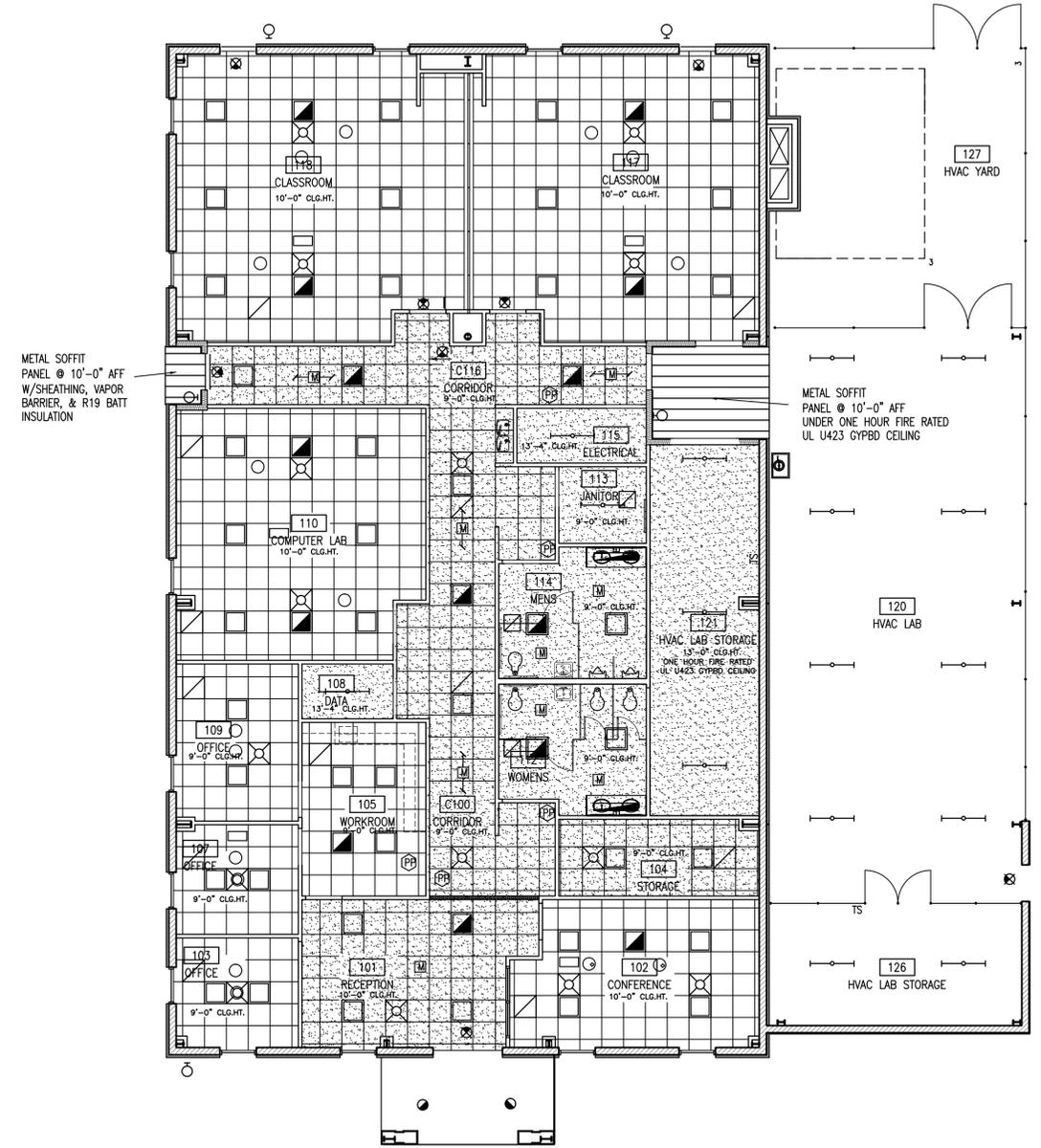
LIGHTING, VENTS AND CEILING OUTLETS

- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE WITH EMERGENCY POWER
- FLUORESCENT LIGHT FIXTURE WITH EMERGENCY POWER
- FLUORESCENT LIGHT FIXTURE WITH EMERGENCY POWER
- CEILING MOUNTED FLUORESCENT LIGHT FIXTURE
- CEILING MOUNTED FLUORESCENT LIGHT FIXTURE w/ EMERGENCY POWER
- WALL MOUNTED FLOURESCENT LIGHT FIXTURED
- WALL MOUNTED LIGHT FIXTURE
- CANOPY SURFACE MOUNTED FIXTURE
- 2x2 SUPPLY AIR VENT
- SUPPLY AIR VENT
- 2X2 RETURN AIR VENT
- EXHAUST AIR GRILLE
- RETURN AIR VENT

A2

RCP LEGEND

SCALE: 1/8"=1'-0"



METAL SOFFIT
PANEL @ 10'-0" AFF
W/SHEATHING, VAPOR
BARRIER, & R19 BATT
INSULATION

METAL SOFFIT
PANEL @ 10'-0" AFF
UNDER ONE HOUR FIRE RATED
UL U423 GYPBD CEILING

A1

BASE BID - REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

Jack Baker
6/10/15

JACK DEYATTE BAKER, RA
AR 96312

Revision

Date:	No.	Description:
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Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:

BASE BID - REFLECTED CEILING PLAN

Drawing No.: A102

1

2

3

4

5



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Jack Baker
 6/10/15

JACK DEYATTE BAKER, RA
 AR 96312

Revision

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Drawn By: DJA
 Checked By: JDB

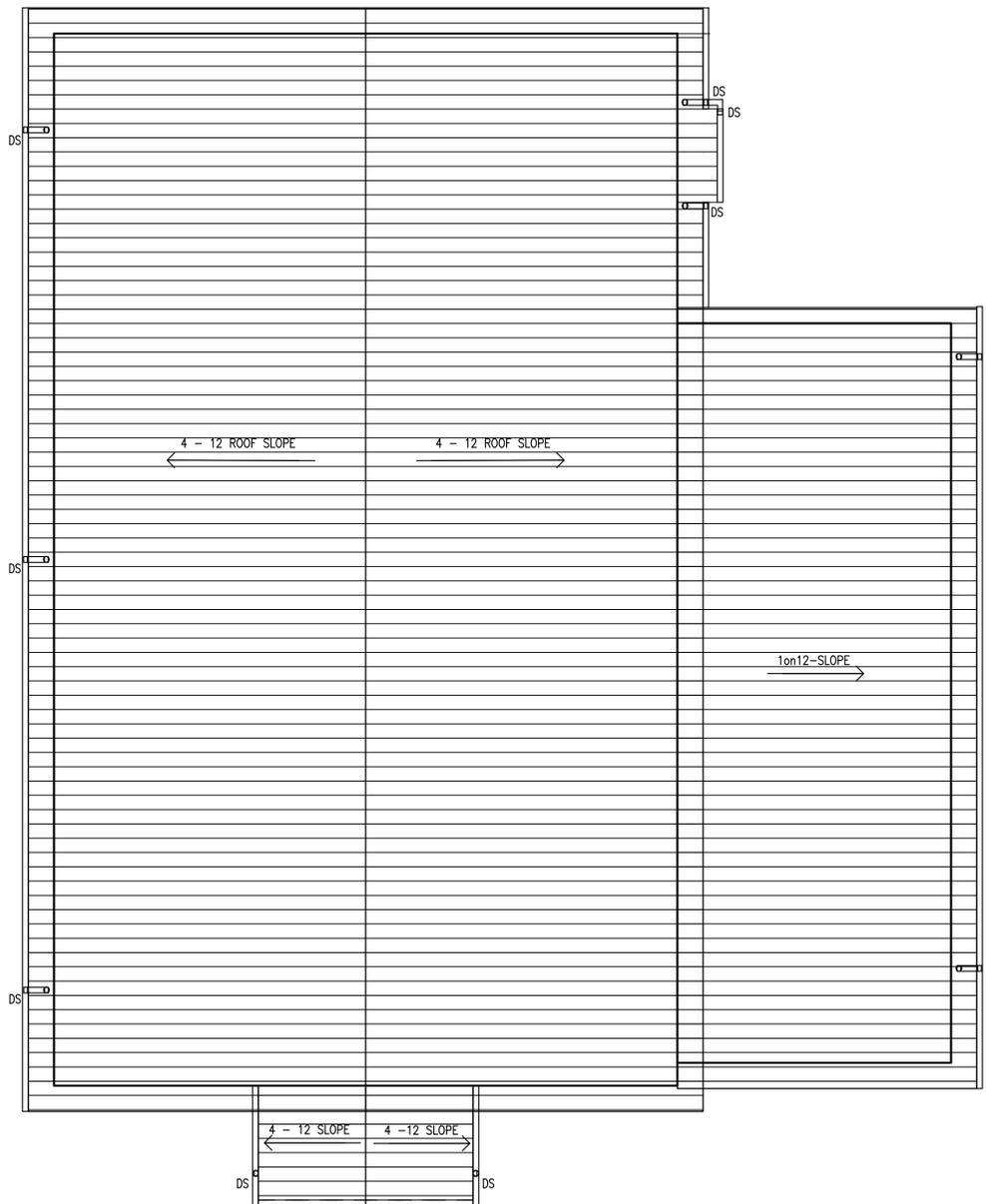
Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:

ROOF PLAN

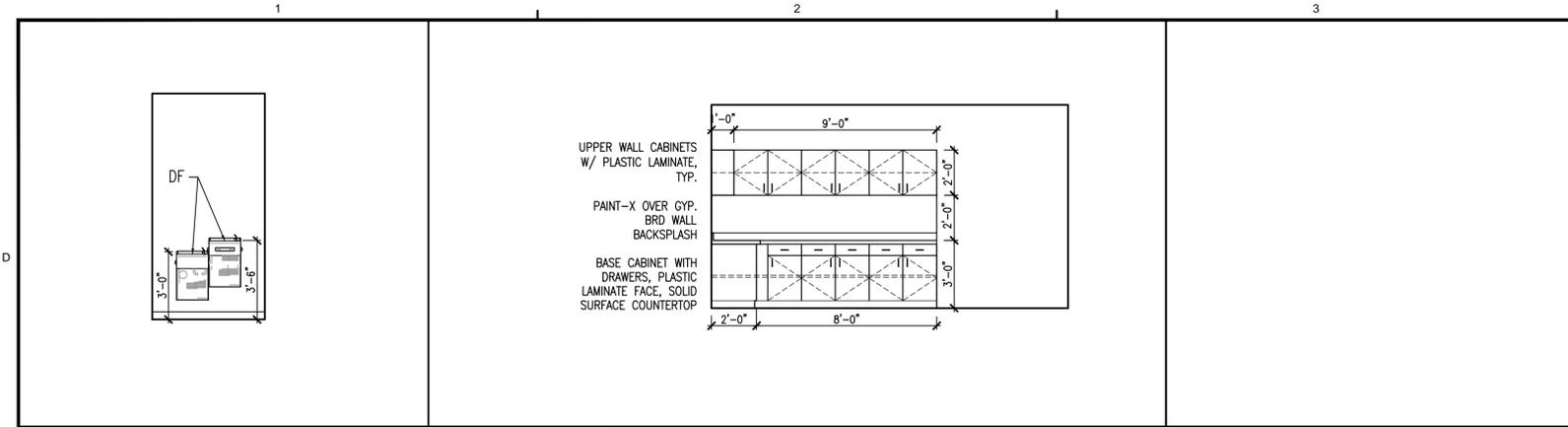
Drawing No.: **A103**



COORDINATE
 NUMBER AND LOCATION OF
 DOWNSPOUTS WITH METAL
 BUILDING SYSTEM.

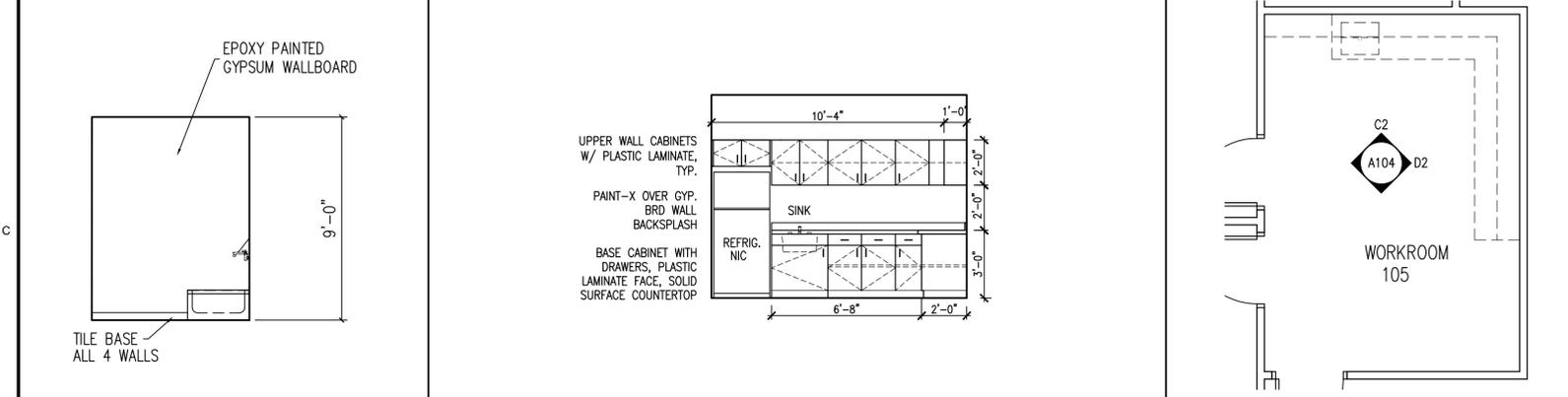
A1 ROOF PLAN

SCALE: 1/8"=1'-0"

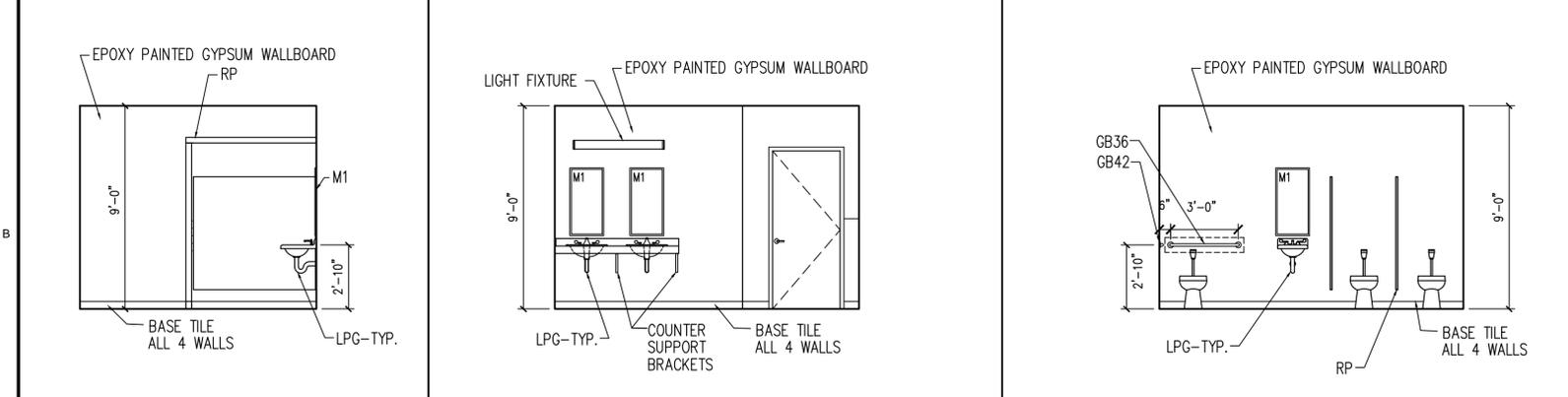


MARK	DESCRIPTION	MANUFACTURER	REMARKS
GB	GRAB BAR (36" LENGTH BEHIND WC & 42" TO THE SIDE OF WC)	BOBRICK B-5806.99x36 BOBRICK B-5806.99x42	MOUNT CENTERLINE OF GB 2'-10" ABOVE FLOOR
M1	FRAMED MIRROR	BOBRICK B-2908 18Wx36H	MOUNT BOTTOM OF MIRROR 3'-3" ABOVE FLOOR
RH	ROBE HOOK	BOBRICK B-212	SURFACE MOUNTED CLOTHES HOOK AND BUMPER MOUNT AT TOP CENTER OF EACH PARTITION DOOR
RP	RESTROOM PARTITION	SEE SPECIFICATIONS	FLOOR MOUNTED OVERHEAD BRACED
DF	DRINKING FOUNTAINS	SEE SPECIFICATIONS	WALL MOUNTED

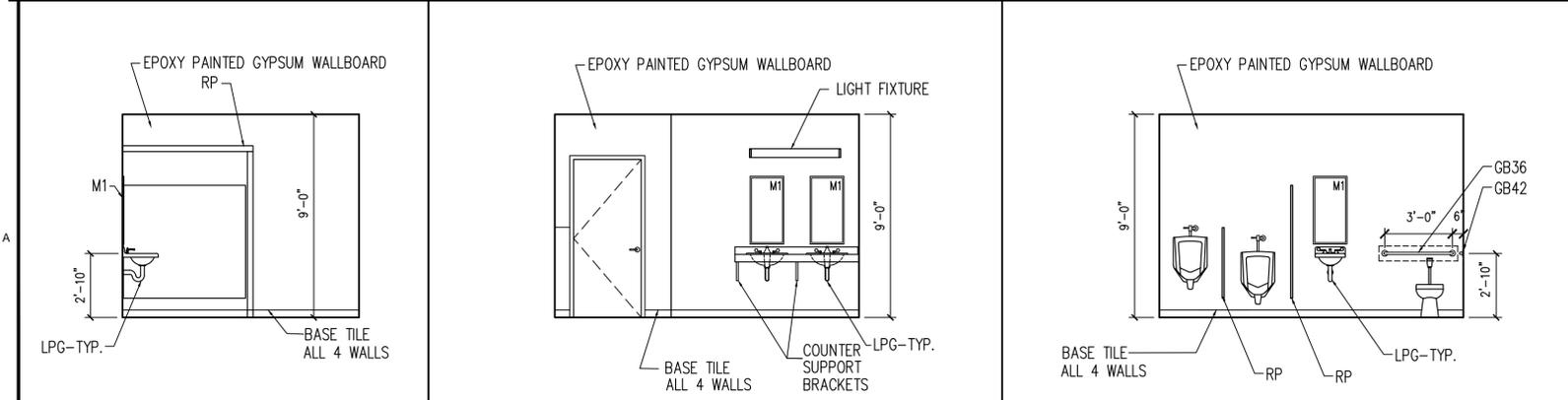
D1 INT. ELEV. SCALE: 1/4"=1'-0" CORRIDOR C100
D2 INTERIOR ELEVATION SCALE: 1/4"=1'-0" WORKROOM (RM. 105)
D3 INT. ELEV. SCALE: 1/4"=1'-0" MEN (RM. 111)



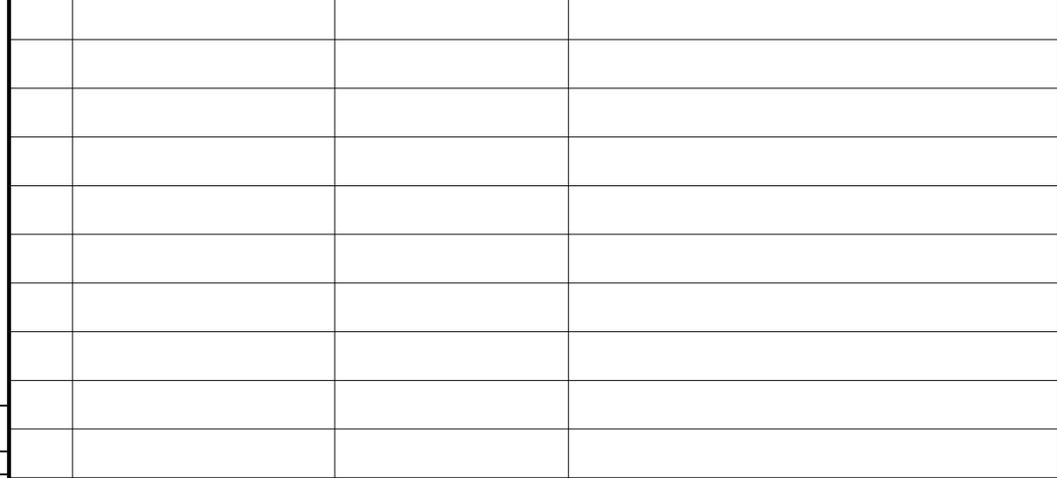
C1 INT. ELEV. SCALE: 1/4"=1'-0" JANITOR (RM. 113)
C2 INTERIOR ELEVATION SCALE: 1/4"=1'-0" WORKROOM (RM. 105)
C3 PLAN SCALE: 1/4"=1'-0" WORKROOM (RM. 105)



B1 INT. ELEV. SCALE: 1/4"=1'-0" WOMEN (RM. 112)
B2 INT. ELEV. SCALE: 1/4"=1'-0" WOMEN RESTROOM (RM. 112)
B3 INT. ELEV. SCALE: 1/4"=1'-0" WOMEN RESTROOM (RM. 112)

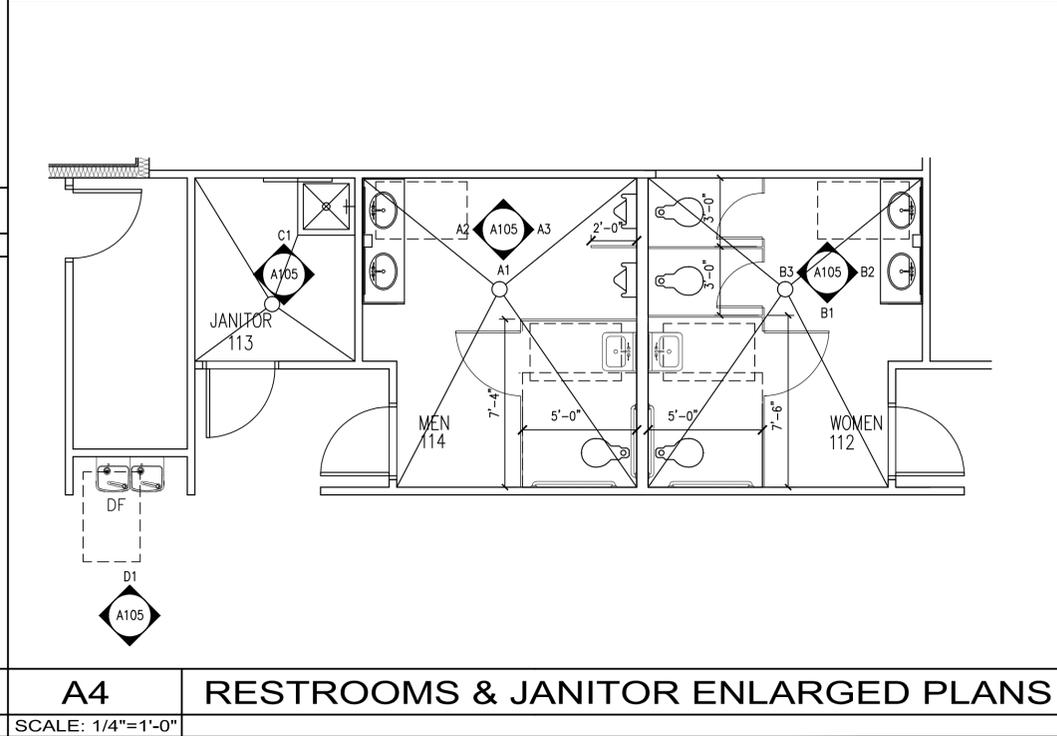


A1 INT. ELEV. SCALE: 1/4"=1'-0" MEN (RM. 114)
A2 INT. ELEV. SCALE: 1/4"=1'-0" MEN RESTROOM (RM. 114)
A3 INT. ELEV. SCALE: 1/4"=1'-0" MEN RESTROOM (RM. 114)



NOTES:
 1. PROVIDE INSULATED COVERINGS ON ALL PIPES BENEATH ALL LAVATORIES SIMILAR TO LAVATORY GUARD. LPG - LAVATORY PIPE GUARD
 2. COORDINATE WITH OWNER TO PROVIDE BLOCKING FOR ALL OWNER FURNISHED TOILET ACCESSORIES.

B4 TOILET ACCESSORY SCHEDULE
 SCALE: NTS



A4 RESTROOMS & JANITOR ENLARGED PLANS
 SCALE: 1/4"=1'-0"

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 JACK DEYATTE BAKER, RA
 AR 96312

Revision		
Date	No.	Description

Drawn By: DJA
 Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
 ENLARGED PLANS AND INTERIOR ELEVATIONS

Drawing No.: **A104**



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Jack DeYatte Baker
6/10/15

JACK DEYATTE BAKER, RA
AR 96312

Revision	
Date	Description

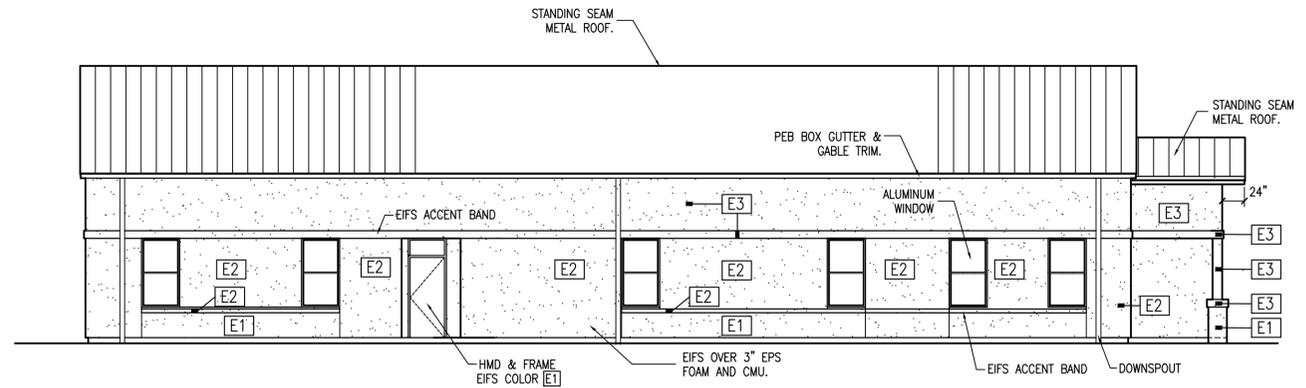
Drawn By: DJA
Checked By: JDB

Date: 10 JUNE 2015

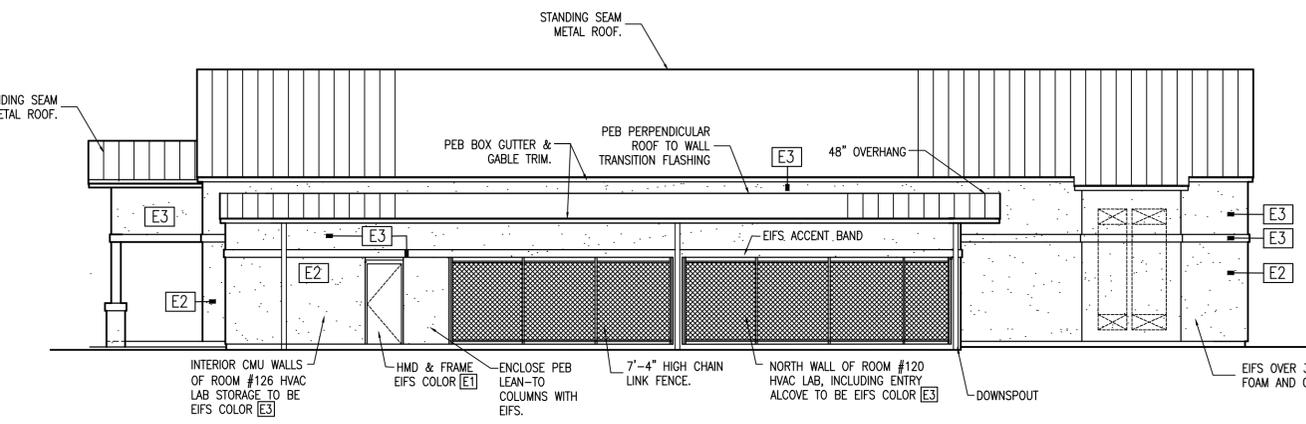
Project No.: 14033

Drawing Title:
EXTERIOR ELEVATIONS

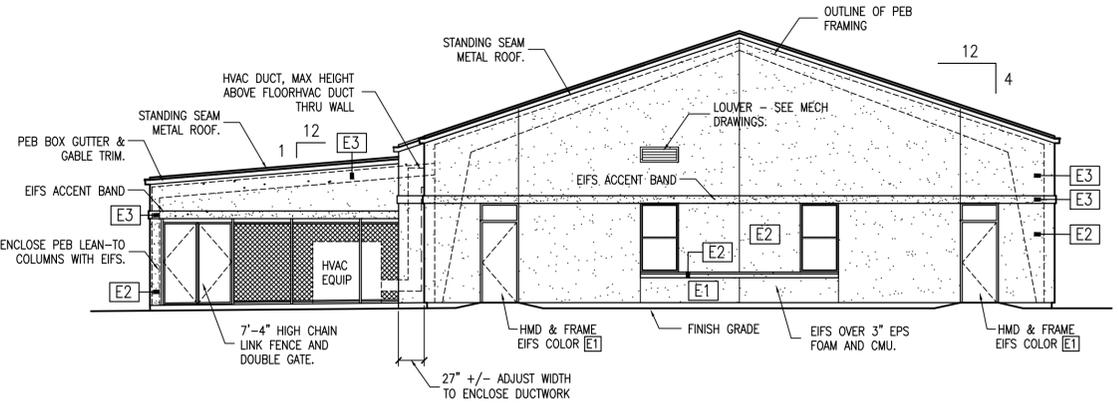
Drawing No.: A201



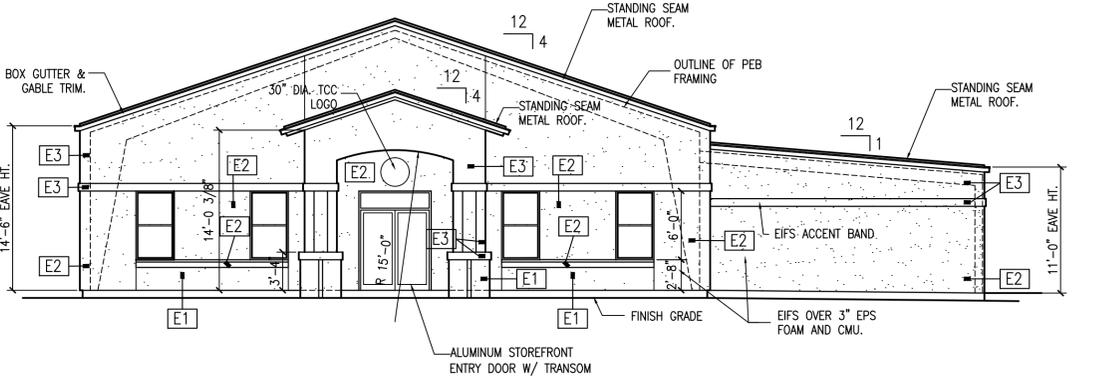
B2 NORTH ELEVATION
SCALE: 1/8"=1'-0"



A2 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



B1 EAST ELEVATION
SCALE: 1/8"=1'-0"



A1 WEST ELEVATION
SCALE: 1/8"=1'-0"

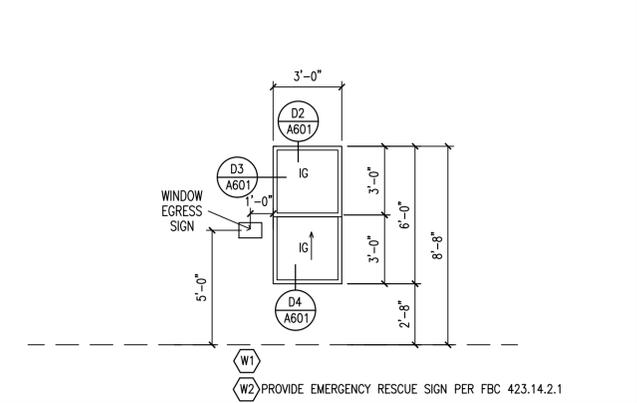
- EIFS COLORS**
- [E1] EIFS COLOR PAREX CLAY 1571L(66)
 - [E2] EIFS COLOR PAREX BUFFALO 1568L(66)
 - [E3] EIFS COLOR PAREX MOONDANCE 3027L(66)

DOOR AND FRAME SCHEDULE

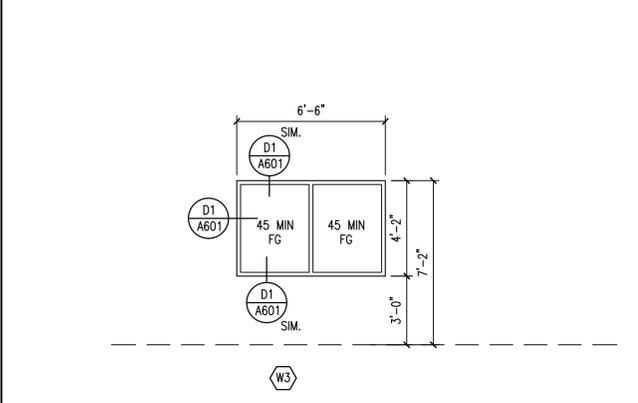
DOOR NO.	DOOR			FRAME			FIRE RATING LABEL	IMPACT RESISTANT ASSEMBLY	HARDWARE SET	REMARKS SEE SPECIFIC NOTES	
	MATERIAL	TYPE	SIZE	TYPE	DOOR DETAILS SEE DETAIL SHEETS						
					HEAD	JAMB					SILL
100	AL	SF	PAIR 3'-0" x 7'-0"	SF-1	C3/A601	B3/A601	A4/A601	-	-	1	-
102	WD	N	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	20 MIN	-	4	FIRE GLASS @ VISION LITE
103	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	20 MIN	-	2	-
104	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	45 MIN	-	6	-
105	WD	N	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	20 MIN	-	2	FIRE GLASS @ VISION LITE
107	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	-	-	3	-
108	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	45 MIN	-	6	-
109	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	-	-	3	-
110	WD	N	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A3/A601	20 MIN	-	4	FIRE GLASS @ VISION LITE
112	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A2/A601	20 MIN	-	7	-
113	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A2/A601	45 MIN	-	6	-
114	WD	F	3'-0" x 7'-0"	HM-1	C2/A601	B2/A601	A2/A601	20 MIN	-	7	-
115	WD	F	3'-0" x 7'-0"	HM-1	C1/A602	B1/A602	A2/A602	45 MIN	-	6	-
116A	GHM	F	3'-0" x 7'-0"	HM-3	C4/A601	B4/A601	A4/A601	-	-	5	-
116B	GHM	N	3'-0" x 7'-0"	HM-1	C2/A601sim	B2/A601sim	A4/A601sim	20 MIN	-	4	FIRE GLASS @ VISION LITE
117A	WD	N	3'-0" x 7'-0"	HM-1	C2/A601	B1/A601	A3/A601	20 MIN	-	4	FIRE GLASS @ VISION LITE
117B	GHM	F	3'-0" x 7'-0"	HM-3	C4/A601	B4/A601	A4/A601	-	-	5	-
117C	GHM	F	4'-0" x 7'-0"	HM-1	C2/A601sim	B2/A601sim	A4/A601sim	20 MIN	-	4	-
118A	WD	N	3'-0" x 7'-0"	HM-1	C2/A601	B1/A601	A3/A601	20 MIN	-	4	FIRE GLASS @ VISION LITE
118B	GHM	F	3'-0" x 7'-0"	HM-3	C4/A601	B4/A601	A4/A601	-	-	5	-
120A	GHM	F	3'-0" x 7'-0"	HM-2	C1/A601	B1/A601	A4/A601	-	-	5	-
120B	GHM	CL	PAIR 3'-0" x 7'-0"	CL	-	-	-	-	-	-	Lockset,see chainlink spec
121	GHM	F	PAIR 3'-0" x 7'-0"	HM-4	C2/A601sim	B2/A601sim	A4/A601sim	45 MIN	-	8	-
126	GHM	CL	PAIR 3'-0" x 7'-0"	CL	-	-	-	-	-	-	Lockset,see chainlink spec
127	GHM	CL	PAIR 4'-0" x 8'-0"	CL	-	-	-	-	-	-	Lockset,see chainlink spec

- DOOR SCHEDULE GENERAL NOTES:
- DOOR MATERIAL ABBREVIATIONS
HM = HOLLOW METAL
GHM = GALVANIZED HOLLOW METAL
WD = SOLID WOOD CORE
AL = ALUMINUM
 - UNLESS NOTED OTHERWISE WHERE GLASS OCCURS IN DOORS PROVIDE TEMPERED GLASS AT NON-RATED DOORS AND FIRE GLASS AT RATED DOORS.
 - GLASS TYPE ABBREVIATIONS
TG = TEMPERED GLASS
SG = SINGLE GLASS
IG = INSULATING GLASS
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON WINDOWS AND DOORS.
 - UNLESS NOTED OTHERWISE ALL DOORS ARE 1 3/4" THICK.
 - INSTALL INSULATED DOORS AND FRAMES BETWEEN ALL SPACES THAT ARE AIR CONDITIONED AND UN-AIR CONDITIONED.

D3
SCALE: 1/4"=1'-0"



C3 ALUM. WINDOW TYPES
SCALE: 1/4"=1'-0" SINGLE HUNG ALUMINUM WINDOWS



C4 METAL WINDOW
SCALE: 1/4"=1'-0" FIRE RATED CONF. RM WINDOW

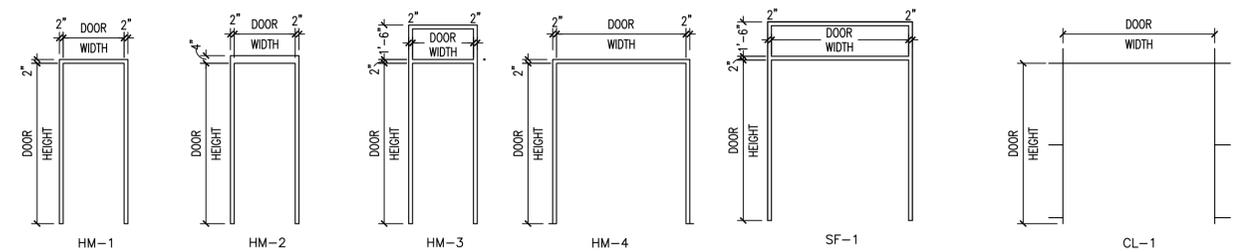
C1 DOOR AND FRAME SCHEDULES
NO SCALE

ROOM FINISH SCHEDULE

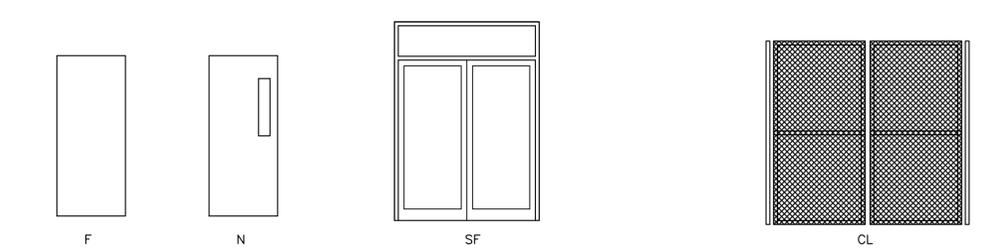
ROOM NO.	ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS				CEILING MATERIAL	HEIGHT	REMARKS
				NORTH MATERIAL	EAST MATERIAL	SOUTH MATERIAL	WEST MATERIAL			
C100	CORRIDOR	VCT	RUBBER	1HR GYPBD	N/A	1HR GYPBD	CMU	1HRGYPBD + ACT	9'-0"	
101	RECEPTION	VCT	RUBBER	1HR GYPBD	1HR GYPBD	N/A	CMU	1HRGYPBD + ACT	10'-0"	
102	CONFERENCE	CP	RUBBER	1HR GYPBD	GYPBD	1HR CMU	CMU	ACT	10'-0"	
103	OFFICE	CP	RUBBER	CMU	GYPBD	1HR GYPBD	CMU	ACT	9'-0"	
104	STORAGE	VCT	RUBBER	1HR GYPBD	GYPBD	1HR CMU	GYPBD	1HRGYPBD + ACT	9'-0"	
105	WORKROOM	VCT	RUBBER	GYPBD	GYPBD	1HR GYPBD	1HR GYPBD	ACT	9'-0"	
107	OFFICE	CP	RUBBER	CMU	GYPBD	1HR GYPBD	GYPBD	ACT	9'-0"	
108	DATA	VCT	RUBBER	GYPBD	GYPBD	1HR GYPBD	GYPBD	ACT	13'-4"	
109	OFFICE	CP	RUBBER	CMU	GYPBD	GYPBD	GYPBD	ACT	9'-0"	
110	COMPUTER LAB	VCT	RUBBER	CMU	1HR GYPBD	1HR GYPBD	1HR GYPBD	ACT	10'-0"	
112	WOMENS	CT	CT	1HR GYPBD	GYPBD	GYPBD	GYPBD	GYPBD	9'-0"	
113	JANITOR	CT	CT	1HR GYPBD	GYPBD	GYPBD	GYPBD	GYPBD	9'-0"	
114	MENS	CT	CT	1HR GYPBD	GYPBD	GYPBD	GYPBD	GYPBD	9'-0"	
115	ELECTRICAL	VCT	RUBBER	1HR GYPBD	1HR GYPBD	GYPBD	GYPBD	GYPBD	13'-4"	
C116	CORRIDOR	VCT	RUBBER	CMU	1HR GYPBD	1HR CMU	1HR GYPBD	1HRGYPBD + ACT	9'-0"	
117	CLASSROOM	VCT	RUBBER	MOVEABLE	CMU	1HR CMU	1HR GYPBD	ACT	10'-0"	
118	CLASSROOM	VCT	RUBBER	CMU	CMU	MOVEABLE	1HR GYPBD	ACT	10'-0"	
120	HVAC LAB	SEALED CONC.	N/A	1HR CMU	CMU	CMU	CHAINLINK	STRUCTURE	+/-10'-0"	
121	HVAC LAB STORAGE	SEALED CONC.	RUBBER	GYPBD	1HR GYPBD	1HR CMU	GYPBD	1HRGYPBD	13'-0"	
126	HVAC LAB STORAGE	SEALED CONC.	N/A	1HR CMU	CHAINLINK	CMU	CMU	STRUCTURE	+/-10'-0"	

B1 FINISH SCHEDULE
NO SCALE

B3
SCALE: 1/4"=1'-0"



A1 FRAME TYPES
SCALE: 1/4"=1'-0"



A3 DOOR TYPES
SCALE: 1/4"=1'-0"

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Revision		
Date	No.	Description
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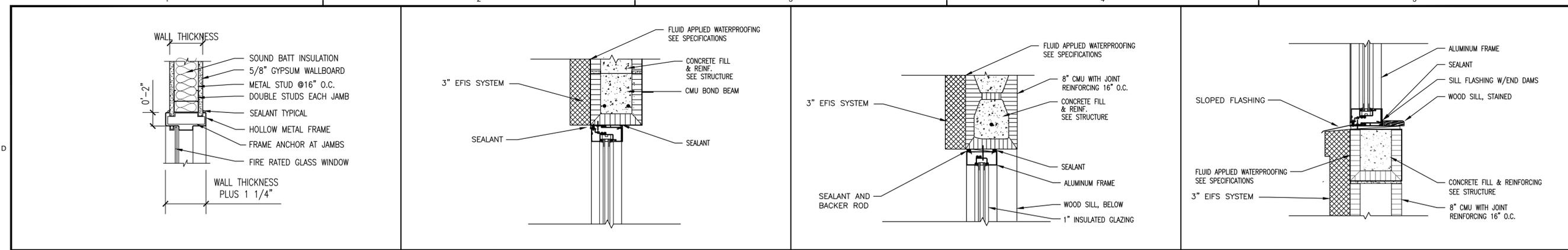
Drawn By: DJA
Checked By: DCL

Date: 10 JUNE 2015

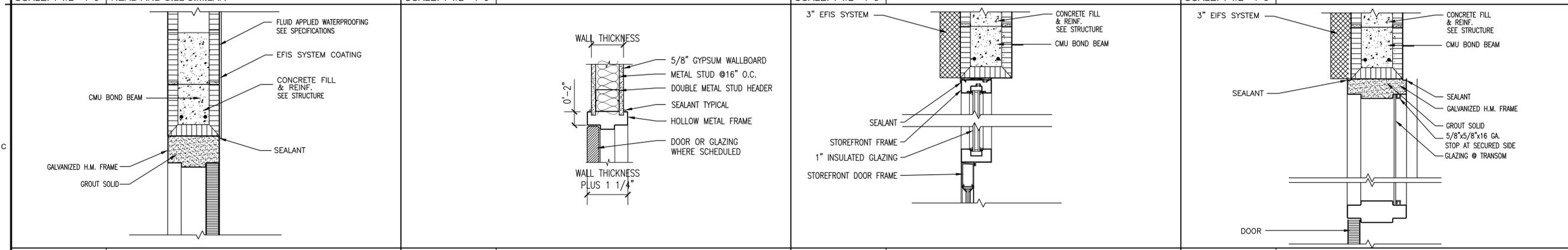
Project No.: 14033

Drawing Title:
DOOR, FRAME AND FINISH SCHEDULE

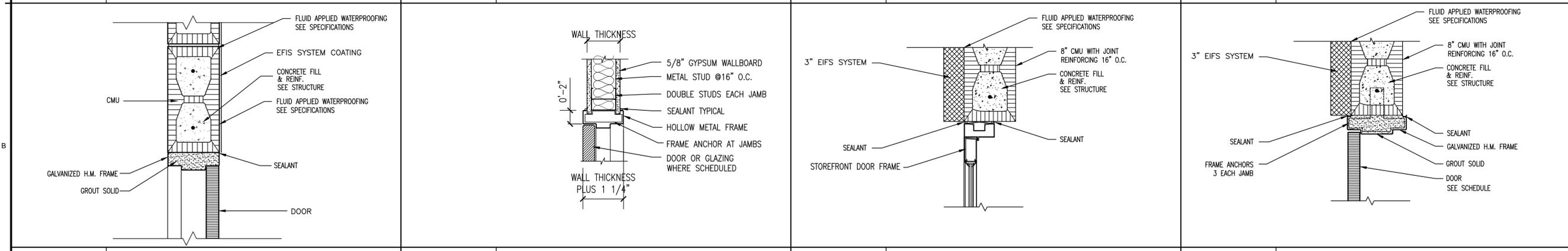
Drawing No.: **A501**



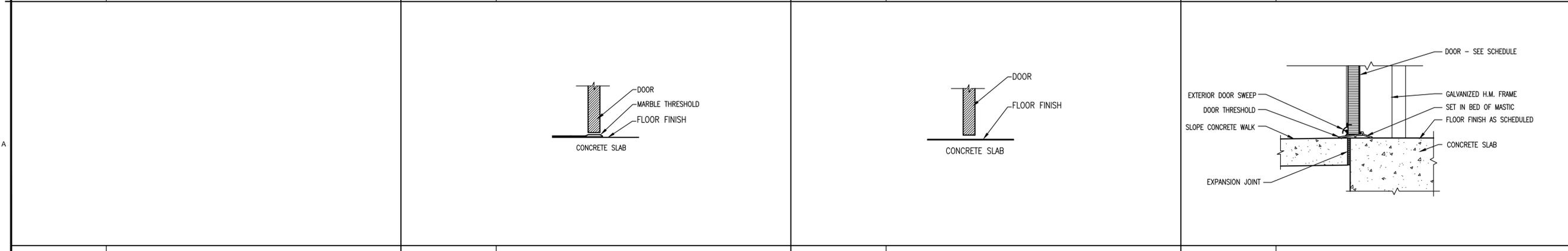
D1 INTERIOR WINDOW JAMB SCALE: 1 1/2"=1'-0" HEAD AND SILL SIMILAR
D2 EXTERIOR WINDOW HEAD SCALE: 1 1/2"=1'-0"
D3 EXTERIOR WINDOW JAMB SCALE: 1 1/2"=1'-0"
D4 EXTERIOR WINDOW SILL SCALE: 1 1/2"=1'-0"



C1 EXTERIOR H.M. DOOR HEAD SCALE: 1 1/2"=1'-0"
C2 INTERIOR H.M. DOOR HEAD SCALE: 1 1/2"=1'-0"
C3 EXTERIOR S.F. DOOR HEAD SCALE: 1 1/2"=1'-0"
C4 EXTERIOR H.M. DOOR HEAD SCALE: 1 1/2"=1'-0"



B1 EXTERIOR H.M. DOOR JAMB SCALE: 1 1/2"=1'-0"
B2 INTERIOR H.M. DOOR JAMB SCALE: 1 1/2"=1'-0"
B3 EXTERIOR S.F. DOOR JAMB SCALE: 1 1/2"=1'-0"
B4 EXTERIOR H.M. DOOR JAMB SCALE: 1 1/2"=1'-0"



A1 EXTERIOR H.M. DOOR SILL SCALE: 1 1/2"=1'-0"
A2 INTERIOR H.M. DOOR SILL SCALE: 1 1/2"=1'-0"
A3 INTERIOR H.M. DOOR SILL SCALE: 1 1/2"=1'-0"
A4 EXTERIOR H.M. DOOR SILL SCALE: 1 1/2"=1'-0" STOREFRONT SIMILAR

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 AR 96312

Revision		
Date	No.	Description

Drawn By: DJA
 Checked By: JDB

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
 DOOR AND WINDOW DETAILS

Drawing No.: **A601**

CEILING SUPPLY DIFFUSERS table with columns for SYMBOL, CFM, NECK SIZE, MINIMUM - MAXIMUM 1/2 SPACING, and FACE DIMENSION (HARD CEILING, LAY-IN CEILING).

CEILING RETURN OR EXHAUST REGISTERS AND GRILLES table with columns for SYMBOL, CFM, GRILLE SIZE, and RUNOUT DUCT (NOTE 3).

SIDEWALL REGISTERS AND GRILLES table with columns for CFM, REGISTER SIZE, RUNOUT DUCT, and RETURN AIR OR EXHAUST AIR (REGISTER SIZE, RUNOUT DUCT).

AIR BALANCE SCHEDULE table with columns for OUTSIDE AIR SOURCE, CFM, EXHAUST SOURCE, and CFM.

DESIGN CONDITIONS table with sections for OUTDOORS (SUMMER TEMPERATURES, DEHUMIDIFICATION TEMPERATURES, WINTER TEMPERATURE) and INDOORS (OCCUPANCY USAGE, SUMMER TEMPERATURES, WINTER TEMPERATURE).

VENTILATION RATE table with columns for TYPE OF SPACE, EXHAUST (CFM/FT²), and OUTSIDE AIR (CFM/PERSON, CFM/FT²).

NOTES: 1. VENTILATION RATES CALCULATED PER REQUIREMENTS OF ASHRAE STANDARD 62.1-2010. 2. EXHAUST RATE IS PER WATER CLOSET AND/OR URINAL. HIGHER RATE IS FOR HIGHER USE FACILITIES.

AIR DISTRIBUTION table listing various duct types (RECTANGULAR SHEET METAL DUCT, ROUND SHEET METAL DUCT, FLEXIBLE RUNOUT DUCT, etc.) and their symbols.

MEASUREMENTS AND CONTROLS table listing control devices like ROOM THERMOSTAT/TEMPERATURE SENSOR, ROOM HUMIDISTAT/HUMIDITY SENSOR, DIRECT DIGITAL CONTROL PANEL, TIME CLOCK CONTROL, and ACV TEMPERATURE SENSOR.

MISCELLANEOUS table listing 1 HOUR FIRE RATED WALL and CONDENSATE DRAIN PIPING FROM COOLING COIL.

PIPING AND FITTINGS table listing various pipe and fitting symbols and their descriptions.

- HVAC NOTES: 1. TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFEWASTE AT LOCATION SHOWN ON PLANS. 2. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING. 3. COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL... 20. IT IS RECOMMENDED THAT DUCTWORK BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED...

ABBREVIATIONS table listing abbreviations for various HVAC components like AFF ABOVE FINISHED FLOOR, AHAP AS HIGH AS POSSIBLE, etc.

- GENERAL NOTES: 1. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. 2. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS... 23. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE...

DRAWING INDEX table listing drawing sheets M0.1, M0.2, M1.1, and M5.1 with their respective titles.

Revision table and logo for H2 ENGINEERING. Includes contact information: 114 EAST 5th AVENUE, TALLAHASSEE, FL 32303. PHONE: 850.224.7922. www.h2engineering.com



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Revision table with columns for Date, No., and Description.

Drawn By: DAH Checked By: DMH

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title: GENERAL NOTES, LEGENDS AND SCHEDULES - HVAC

Drawing No.: M0.1

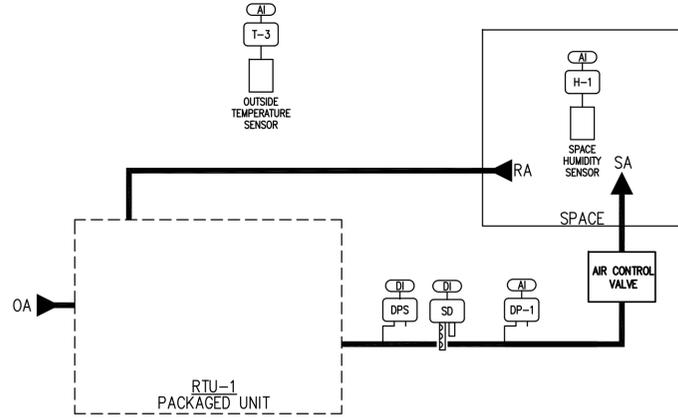
SEQUENCE OF OPERATION - ROOF TOP UNIT

NOTES:

1. PROVIDE CONTROLLER WITH MINIMUM OF TWO (2) DIGITAL RELAY OUTPUTS.
2. PROVIDE BACNET COMPATIBLE CONTROLLER.
3. PROVIDE SUCTION PRESSURE TRANSDUCER.
4. PROVIDE SUPPLY AIR TEMPERATURE SENSOR.
5. PROVIDE OUTSIDE AIR TEMPERATURE SENSOR.
6. PROVIDE OUTSIDE AIR HUMIDITY SENSOR.
7. PROVIDE SPACE TEMPERATURE SENSOR.
8. PROVIDE SPACE HUMIDITY SENSOR.
9. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
10. PROVIDE WALL MOUNTED INTERFACE MODULE.
11. PROVIDE DIRTY FILTER INDICATOR.

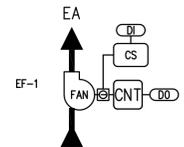
CONTROLS:

1. **OCCUPIED MODE:** ENABLE THE AIR HANDLING UNIT BASED ON A USER DEFINABLE OCCUPIED TIME SCHEDULE. THE SUPPLY FAN MODULATES TO CONTROL STATIC PRESSURE. THE COMBINATION OUTSIDE AIR / RETURN AIR DAMPER MODULATES TO ALLOW FOR THE DESIGN OUTSIDE AIR FLOW.
2. **UNOCCUPIED MODE:** THE SUPPLY FAN IS OFF UNLESS THERE IS A CALL FOR ANY MODE. THE OUTSIDE AIR DAMPER IS CLOSED AND RETURN AIR DAMPER IS OPEN. THE MODES SHALL ENABLE AS NECESSARY TO MAINTAIN UNOCCUPIED SPACE HEATING (65°F, ADJUSTABLE), COOLING (85°F, ADJUSTABLE), AND DEHUMIDIFICATION (60%RH, ADJUSTABLE) SETPOINTS.
3. **HEATING MODE:** ENABLE HEATING MODE IF MORE THAN 50% OF TERMINAL UNIT SPACE TEMPERATURES FALL BELOW HEATING SETPOINT MINUS A DEADBAND. DISABLE HEATING MODE WHEN OUTSIDE AIR TEMPERATURE IS ABOVE HEATING LOCKOUT SETPOINT. MODULATE GAS VALVE AS NECESSARY TO MAINTAIN A HEATING DISCHARGE TEMPERATURE.
 - a. **COOLING MODE:** ENABLED COOLING MODE IF MORE THAN 50% OF TERMINAL UNIT SPACE TEMPERATURES RISE ABOVE SPACE TEMPERATURE COOLING SETPOINT PLUS A DEADBAND. DISABLE COOLING MODE WHEN OUTSIDE AIR TEMPERATURE IS BELOW COOLING LOCKOUT SETPOINT.
4. **COOLING MODE:** ENABLE COOLING MODE IF MORE THAN 50% OF TERMINAL UNIT SPACE TEMPERATURES RISE ABOVE SPACE TEMPERATURE COOLING SETPOINT PLUS A DEADBAND. DISABLE COOLING MODE WHEN OUTSIDE AIR TEMPERATURE IS BELOW COOLING LOCKOUT SETPOINT.
5. **DEHUMIDIFICATION MODE:** IF THE SPACE HUMIDITY RISES ABOVE SPACE HUMIDITY SETPOINT, THEN ENABLE COMPRESSORS AND MODULATING HOT GAS REHEAT VALVE. THE COMPRESSORS SHALL MODULATE AND/OR STAGE TO MAINTAIN A COIL LEAVING AIR TEMPERATURE (BASED ON COIL SUCTION PRESSURE). THE HOT GAS REHEAT VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT. DEHUMIDIFICATION MODE SHALL BE ENABLED UNTIL SPACE HUMIDITY FALLS BELOW THE SETPOINT MINUS A DEADBAND.
7. **COMPRESSOR SEQUENCING:** COMPRESSORS SHALL BE SEQUENCED TO MAINTAIN TEMPERATURE SETPOINT (BASED ON OPERATING MODE).
 - c. **COMPRESSOR ADD:** IF THE VARIABLE SPEED COMPRESSOR IS OPERATING AT MAXIMUM SPEED AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR ON. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE SETPOINT.
 - d. **COMPRESSOR SUBTRACT:** IF MORE THAN ONE COMPRESSOR IS OPERATING, THE VARIABLE SPEED COMPRESSOR IS AT MINIMUM SPEED, AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR OFF. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE SETPOINT.



BAS BASIS OF DESIGN

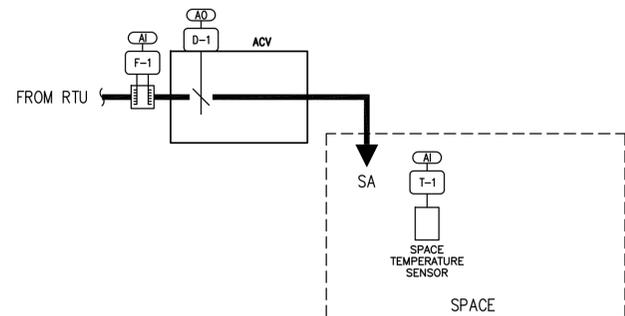
1. **MANUFACTURER:** DAIKIN APPLIED
2. **SYSTEM MANAGER**
 - a. FANLESS TOUCH SCREEN DISPLAY PANEL WITH ICON AND MENU DRIVEN BROWSER BASED CONTROL.
 - b. ABILITY TO STORE PDF FILES AND DISPLAY THEM THROUGH USER INTERFACE.
 - c. SCHEDULES: USER SHALL HAVE ABILITY TO MANAGE, ADD, DELETE SCHEDULES, ADD EXCEPTIONS, ALLOW MORE THAN ONE OCCUPANCY PERIOD PER DAY, REASSIGN DEVICES TO EXISTING OR NEW GROUPS.
 - d. ALARMS: USER SHALL HAVE ABILITY TO VIEW, CLEAR AND SETUP ALARMS.
 - e. SETPOINTS: USER SHALL HAVE ABILITY TO CHANGE SPECIFIC CONFIGURATION PARAMETERS OF THE UNIT CONTROLLERS.
 - f. UNIT CONTROLLER PROPERTIES ACCESS: USER SHALL HAVE THE ABILITY TO CHANGE SPECIFIC CONFIGURATION PARAMETERS OF THE RTU UNIT CONTROLLERS AND ACV CONTROLLERS.
 - g. TRENDING: SYSTEM CONTROLLER SHALL AUTOMATICALLY MAINTAIN TREND LOGS OF KEY INFORMATION.
 - h. ENERGY MANAGEMENT SOFTWARE: SYSTEM SHALL HAVE THE ABILITY TO OPTIMIZE AIR HANDLER ENERGY USAGE BY AUTOMATICALLY ADJUSTING ITS DUCT PRESSURE SETPOINT BASED ON ZONE DAMPER POSITIONS.
 - i. COMMUNICATIONS: DOWNSTREAM COMMUNICATIONS TO UNIT CONTROLLERS SHALL BE BACNET MS/TP WITH A CAPACITY TO MANAGE UP TO 100 DEVICES INCLUDING RTU UNIT CONTROLLERS, ACV TERMINAL UNIT CONTROLLERS, I/O MANAGERS AND SYSTEM MANAGER. IP PORT SHALL PROVIDE SECURITY ENABLED ACCESS BY A REMOTE COMPUTER OR SMART PHONE WHEN CONNECTED TO A LOCAL AREA NETWORK, W-FI, DSL OR CABLE MODEM. REMOTE COMPUTER WILL ACCESS AND VIEW SYSTEM AND UNIT CONTROLLER INFORMATION USING STANDARD BROWSER.
3. **ACV TERMINAL UNIT CONTROLLERS**
 - a. ACV TERMINAL UNITS SHALL HAVE A FACTORY MOUNTED BACNET MS/TP DDC CONTROLLER DESIGNED TO SUPPORT A ACV TERMINAL IN HEATING AND COOLING MODE.
 - b. CONTROLLERS SHALL SHIP FROM THE FACTORY WITH UNIQUE DEVICES INSTANCES AND MAC ADDRESSES ON EACH UNIT CONTROLLER.
 - c. UNIT CONTROLLERS SHALL BE CAPABLE OF PROVIDING STANDALONE ZONE CONTROL.
4. **ROOM TEMPERATURE SENSORS FOR ACV CONTROLLERS**
 - a. ALL SENSORS WILL PROVIDE AN RJ-11 CONNECTION ALLOWING LAPTOP CONNECTION FOR COMMISSIONING AND SERVICING. ROOM UNITS TO BE WIRED WITH SIX-CONDUCTOR PHONE CABLES AND STANDARD RJ-11 CONNECTORS TO THE ACV CONTROLLERS.
 - b. PROVIDE THE FOLLOWING OPTIONS - DIGITAL DISPLAY, CONFIGURABLE DISPLAY FEATURES, OVERRIDE BUTTON.
5. **APPLIED AIR HANDLER UNIT CONTROLLERS (RTU CONTROLLER)**
 - a. UNITS SHALL BE EQUIPPED WITH UNIT CONTROLLERS AND BACNET MS/TP COMMUNICATION MODULES.
 - b. COMMUNICATION MODULE SHALL BE PRE-PROGRAMMED WITH UNIT SPECIFIC DEVICE INSTANCE AND MAC ADDRESS.
 - c. UNIT CONTROLLER SHALL COME WITH SETPOINTS PRE-CONFIGURED IN THE FACTORY FOR USE WITH SYSTEM MANAGER.
 - d. UNITS SHALL BE CAPABLE OF PROVIDING STANDALONE OPERATION OF AIR HANDLER (RTU).
6. **I/O MANAGER**
 - a. SHALL HAVE CONFIGURABLE ANALOG INPUTS AND OUTPUTS, MINIMUM OF SIX DIGITAL INPUTS, THREE DEDICATED THERMISTOR INPUTS, THREE CONFIGURABLE ANALOG INPUTS, FOUR CONFIGURABLE ANALOG OUTPUTS, TEN DIGITAL OUTPUTS. SHALL BE CAPABLE OF CONTROLLING ANALOG OUTPUTS THROUGH AN INTERNAL PID CONTROL. SHALL BE CAPABLE OF BEING MONITORED AND CONTROLLED THROUGH THE TOUCH SCREEN SYSTEM MANAGER.



FAN:

1. **FAN (EF-1):** ENABLE FAN BASED ON OCCUPIED SCHEDULE.
2. **ALARM:** IF STATUS IS NOT PROVEN AFTER A TIME DELAY, THEN PROVIDE ALARM MESSAGE AT OPERATOR INTERFACE AND CHANGE STATUS TO 'FAILED'.

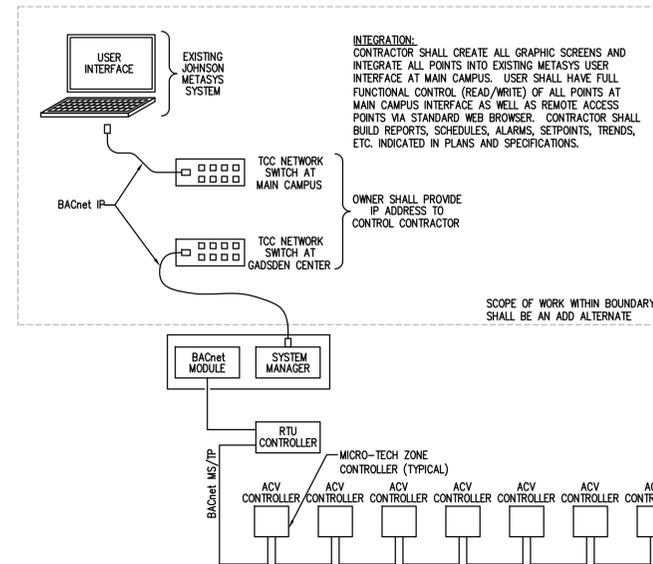
CONTROL SCHEMATICS - AIR CONTROL VALVE



SEQUENCE OF OPERATION:

1. **RUN CONDITIONS**
 - a. **COOLING MODE:** BASED ON SIGNAL FROM ASSOCIATED AHU CONTROLLER.
 - b. **HEATING MODE:** BASED ON SIGNAL FROM ASSOCIATED AHU CONTROLLER.
 - c. **SPACE TEMPERATURE SETPOINTS:** PROVIDE A SPACE COOLING AND HEATING SETPOINT.
 - d. UPON LOSS OF COMMUNICATION WITH ASSOCIATED RTU; REVERT TO COOLING MODE.
2. **INLET DAMPER**
 - a. **AIRFLOW SETPOINTS:** PROVIDE MINIMUM AND MAXIMUM COOLING AND HEATING AIRFLOW SETPOINTS.
 - b. **COOLING MODE:** MODULATE INLET DAMPER BETWEEN MINIMUM AND MAXIMUM COOLING AIRFLOW SETPOINTS TO MAINTAIN SPACE TEMPERATURE COOLING SETPOINT.
 - c. **HEATING MODE:** MODULATE INLET DAMPER BETWEEN MINIMUM AND MAXIMUM HEATING AIRFLOW SETPOINTS TO MAINTAIN SPACE TEMPERATURE HEATING SETPOINT.

TYPICAL BAS ARCHITECTURE



INTEGRATION:
CONTRACTOR SHALL CREATE ALL GRAPHIC SCREENS AND INTEGRATE ALL POINTS INTO EXISTING METASYS USER INTERFACE AT MAIN CAMPUS. USER SHALL HAVE FULL FUNCTIONAL CONTROL (READ/WRITE) OF ALL POINTS AT MAIN CAMPUS INTERFACE AS WELL AS REMOTE ACCESS POINTS VIA STANDARD WEB BROWSER. CONTRACTOR SHALL BUILD REPORTS, SCHEDULES, ALARMS, SETPOINTS, TRENDS, ETC. INDICATED IN PLANS AND SPECIFICATIONS.

OWNER SHALL PROVIDE IP ADDRESS TO CONTROL CONTRACTOR

SCOPE OF WORK WITHIN BOUNDARY SHALL BE AN ADD ALTERNATE

FAN SCHEDULE

DESIGNATION (ALL DESIGNATIONS MAY NOT APPEAR IN JOB)		EF-1
TYPE		INLINE
SERVICE		TOILET EXHAUST
AIR QUANTITY	CFM	750
STATIC PRESSURE	IN H2O	0.5
FAN SPEED	RPM	1311
FAN MOTOR	HP	1/4
FAN DRIVE		DIRECT
MOTOR SPEED	RPM	1725
ELECTRICAL CHARACTERISTICS	V/PH	115/1
BIRD SCREEN		NOTE 1 PROVIDE
BACKDRAFT DAMPER		PROVIDE
DISCONNECT SWITCH-PREWIRED		PROVIDE
SOLID STATE SPEED CONTROLLER		PROVIDE
NOISE LEVEL	SONES	6.7
SPECIAL FEATURES	NOTES	2.3
MANUFACTURER		GREENHECK
MODEL NUMBER		SQ-100-A
DETAIL REFERENCE		B/M5.1

NOTES:

1. PROVIDE BIRDSCREEN AT PENETRATION OF EXTERIOR WALL OR ROOF.
2. PROVIDE INSULATED HOUSING.
3. PROVIDE SPRING ISOLATORS.

PACKAGED ROOFTOP UNIT - GAS HEAT SCHEDULE

UNIT DESIGNATION	RTU-1	
AIR QUANTITIES		
TOTAL SUPPLY AIR	CFM	4,400
FRESH AIR	CFM	850
COOLING CAPACITIES		
TOTAL COOLING CAPACITY	MBH	171.7
SENSIBLE COOLING CAPACITY	MBH	124.5
AIR TEMPERATURES		
COOLING COIL ENTERING	°Db-°Fwb	79.1-66.1
COOLING COIL LEAVING	°Db-°Fwb	53.2-53.2
HOT GAS COIL LEAVING	°Db-°Fwb	70.0-59.5
HEATING COIL ENTERING AND LEAVING	°Db-°Fdb	70-103.5
GAS FIRED HEAT SECTION		
TYPE OF FUEL		NAT. GAS
INPUT RATING	MBH	200
NET HEATING CAPACITY	MBH	160
AIR TEMPERATURE RISE	°F	33.5
UNIT DATA		
NUMBER OF COMPRESSORS	NO.	2
EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN. H2O	2.1
BLOWER MOTOR HORSEPOWER	HP	4
CONDENSATE DRAIN SIZE	IN.	3/4
UNIT WEIGHT	LBS.	2,500
ELECTRICAL CHARACTERISTICS	V/PH	460/3
MCA/MOCP	AMPS/AMPS	30.6/40
AIRFLOW CONFIGURATION		
REFRIGERANT TYPE		R-410A
EER @ AHRI		11
IEER @ AHRI		18
MANUFACTURER		DAIKIN
MODEL NUMBER		DPS015A
NOTES:		
1.	PROVIDE SINGLE POINT ELECTRICAL POWER SUPPLY FOR AIR HANDLING UNIT AND AUXILIARY ELECTRIC HEAT.	
2.	PROVIDE HOT GAS REHEAT DEHUMIDIFICATION OPTION.	
3.	PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.	
4.	PROVIDE PHASE MONITOR.	

AIR VOLUME CONTROLLER SCHEDULE

TYPE	A	B	C	
PRIMARY AIR VALVE				
NOMINAL AIR VALVE DIAMETER	IN.	6	8	10
AIR VALVE MAXIMUM AIR FLOW CAPACITY	CFM	390	700	1,100
AIR VALVE MINIMUM AIR FLOW LIMIT	CFM	80	150	250
MANUFACTURER		RUSKIN	RUSKIN	RUSKIN
MODEL		CDRAMS	CDRAMS	CDRAMS

AIR VOLUME CONTROLLER DESIGNATION AND BALANCE CHART

AIR VOLUME CONTROLLER DESIGNATION (AVC-)	102	103	108	110	116	117	118
	B	C	A	C	B	B	B
SCHEDULED TYPE							
MAXIMUM COOLING AIRFLOW	CFM	580	910	270	840	420	600
MINIMUM COOLING AIRFLOW	CFM	240	360	0	340	170	240
MAXIMUM HEATING AIRFLOW	CFM	580	910	0	840	420	600
MINIMUM HEATING AIRFLOW	CFM	240	360	0	340	170	240



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Revision

Date:	No.	Description:

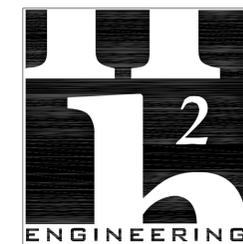
Drawn By: DAH
Checked By: DMH

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
SCHEDULES - HVAC

Drawing No.: **MO.2**



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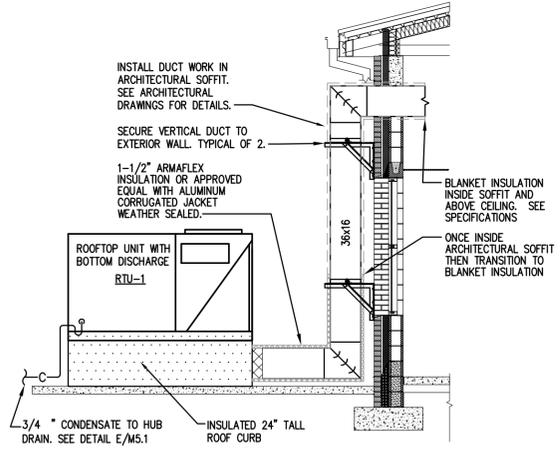
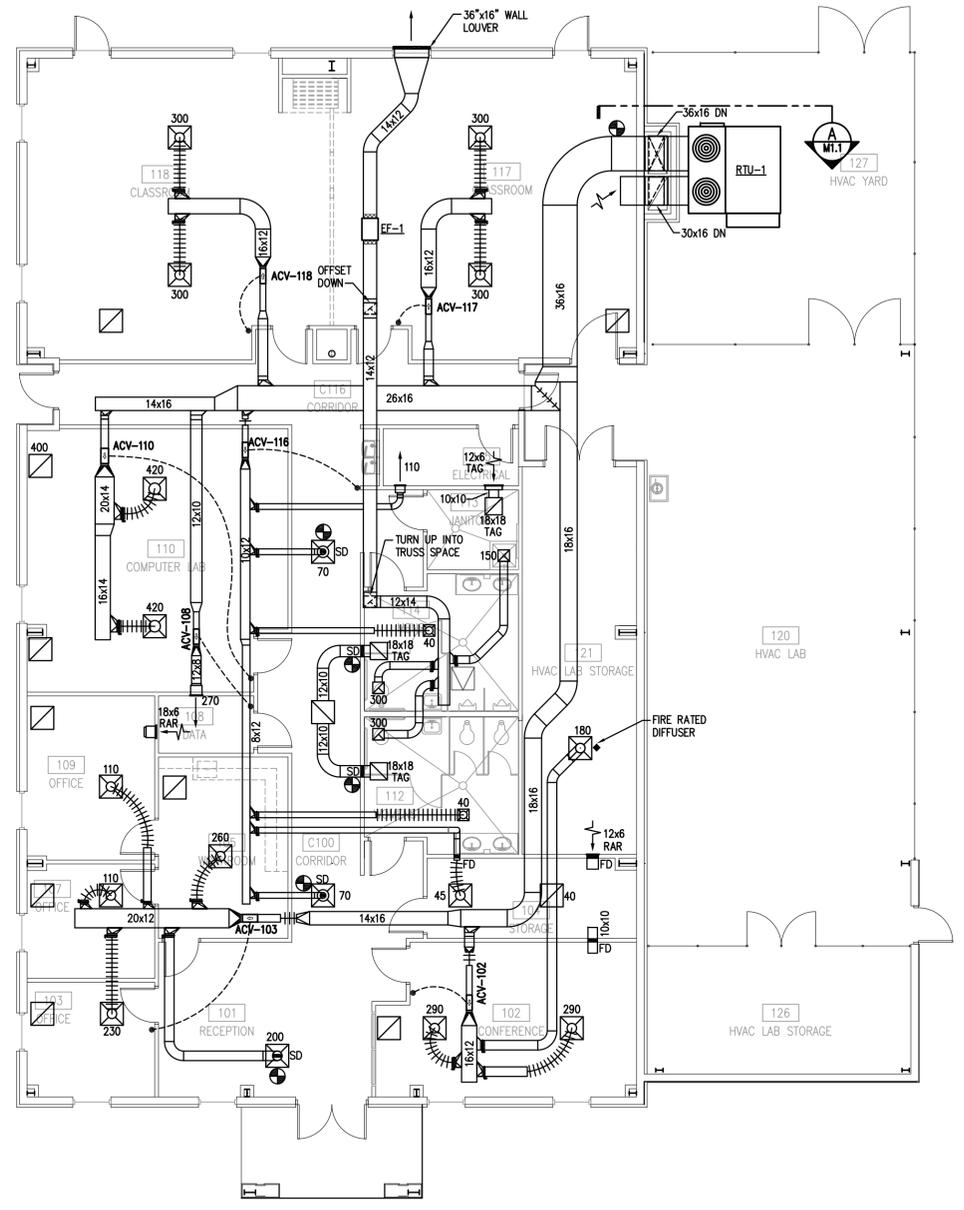


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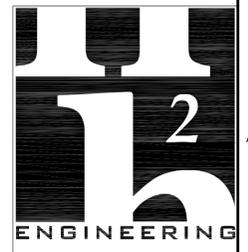
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A SECTION VIEW - HVAC
 M1.1 1/4" = 1'-0"

FLOOR PLAN - HVAC
 1/8" = 1'-0"
 PROJECT NORTH



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Revision		
Date:	No.	Description:

Drawn By: DAH/CJB
 Checked By: DMH

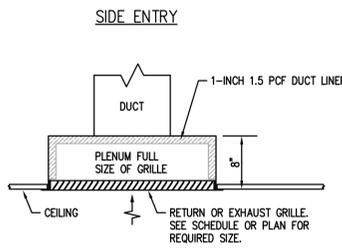
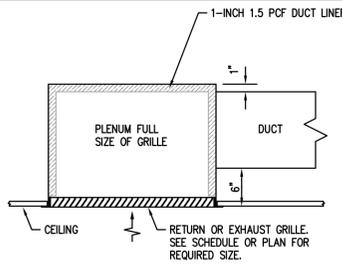
Date: 10 JUNE 2015

Project No.: 14033

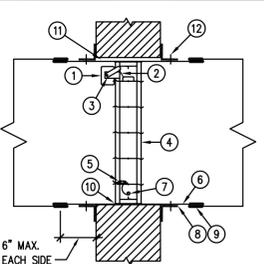
Drawing Title:
FLOOR PLAN - HVAC

Drawing No.: **M1.1**

M1.1 FLOOR PLAN - HVAC

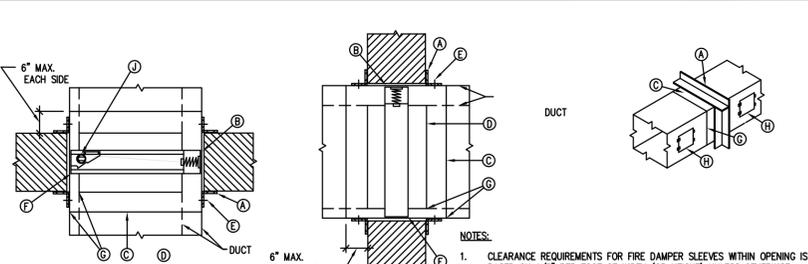


- NOTES:**
- INSTALL BLADES OF GRILLE SO SIGHT LINE INTO PLENUM IS OBSCURED FROM ROOM.
 - PROVIDE APPROPRIATE MOUNTING HARDWARE FOR GRILLE TO ACCOMMODATE CEILING TYPE.



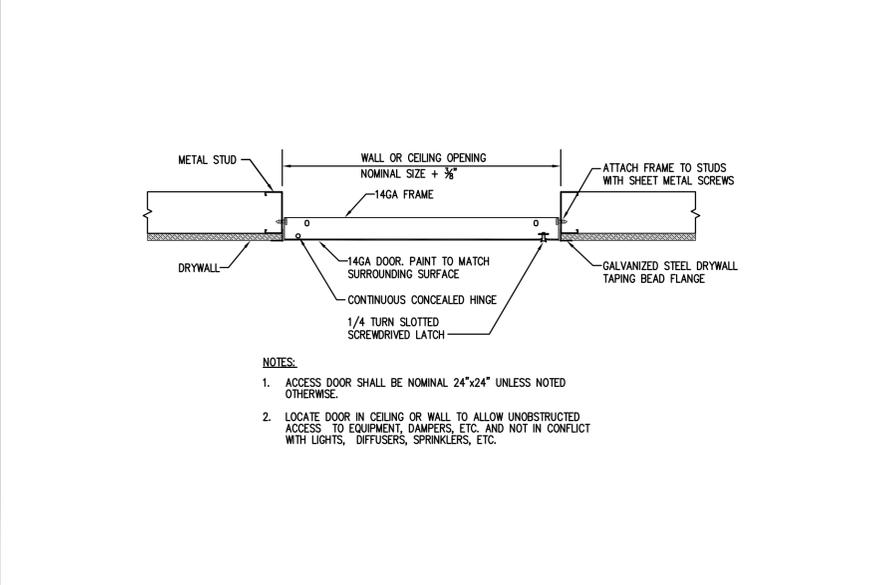
- OPERATION:**
UPON SENSING SMOKE, SMOKE DETECTION SYSTEM ACTUATES DAMPER OPERATOR TO CLOSE DAMPER.
- | | |
|------------------------------------|-----------------------------|
| ① OPERATOR/ACTUATOR (NOTES 7 & 8) | ⑦ NEGATOR SPRING |
| ② FUSIBLE ROD | ⑧ RETAINING ANGLES (NOTE 4) |
| ③ AUXILIARY OPERATING JACK SHAFT | ⑨ S-JOINT, SLEEVE TO DUCT |
| ④ FIRE/SMOKE DAMPER FRAME (NOTE 6) | ⑩ CAULKING MATERIAL |
| ⑤ FUSIBLE LINK WITH LOCK | ⑪ CLEARANCE (NOTES 1 & 2) |
| ⑥ SLEEVE (NOTE 3) | ⑫ FASTENERS (NOTE 5) |

- NOTES:**
- CLEARANCE REQUIREMENTS FOR FIRE/SMOKE DAMPER SLEEVES WITHIN OPENING IS BASED ON 1/8" PER FOOT OF WIDTH OR HEIGHT (1/4" MIN.) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. (A FRACTION OF A FOOT SHALL BE TAKEN AS THE NEXT LARGER WHOLE FOOT). EXAMPLE: A 30" x 24" FIRE DAMPER SLEEVE IS INSTALLED IN A WALL OPENING. THE OPENING SHALL BE 30 3/8" WIDE (1/8" x 3") BY 24 1/4" HIGH (1/8" x 2).
 - THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND THE FIRE RESISTIVE MATERIALS PROVIDED WHERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL PENETRATION. THE CONTRACTOR ERECTING THE WALL IS RESPONSIBLE FOR PROVIDING THE FIRE RESISTIVE MATERIAL AND CORRECT SIZE OPENINGS TO ACHIEVE THE REQUIRED CLEARANCE.
 - THE STEEL SLEEVE SHALL BE 14 GAUGE, OR AS ALLOWED BY U.L. STANDARD 555.
 - RETAINING ANGLES SHALL BE MINIMUM 1 1/2" x 1 1/2" x 0.054 (16 GAUGE). THEY MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF 1" AND COVER OPENINGS OR CORNERS. CAULK THE EXTERIOR PERIMETER OF FIRE DAMPER RETAINING ANGLES WITH A THIN FILLET OF AN APPROVED CAULKING MATERIAL TO PREVENT THE PASSAGE OF SMOKE AND ALLOW MOVEMENT OF THE ANGLE.
 - SECURE RETAINING ANGLES TO SLEEVE ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
 - SECURE FIRE/SMOKE DAMPER TO SLEEVE ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
 - DAMPER/ACTUATOR RETURN SPRING OPERATION ENSURES DAMPER CLOSES AND LOCKS IF SYSTEM BECOMES INOPERABLE (LOSS OF POWER OR TEMPERATURE OVER THE MAXIMUM HIGH LIMIT SENSOR CLASSIFICATION).
 - DAMPER AUTOMATICALLY RESETS TO NORMAL POSITION WHEN ALARM SYSTEM IS RESET AFTER FALSE OR TEST ALARMS. PUSH BUTTON SENSOR RESET AT THE DAMPER REQUIRED ONLY WHEN TEMPERATURE AT DAMPER HAS EXCEEDED THE SENSOR TEMPERATURE CLASSIFICATION.
 - THE FIRE/SMOKE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.
 - VERTICAL INSTALLATION IS DEPICTED; HORIZONTAL INSTALLATION IS SIMILAR.

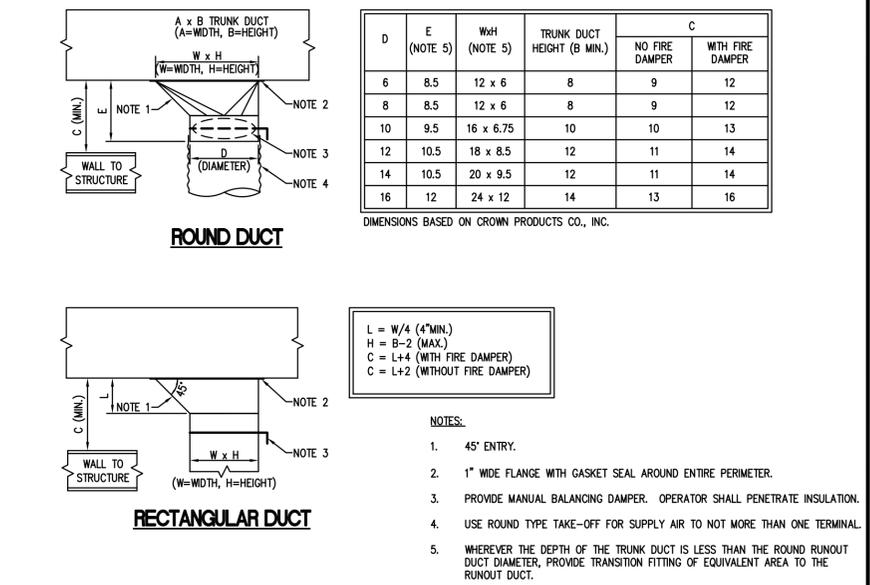


- NOTES:**
- CLEARANCE REQUIREMENTS FOR FIRE DAMPER SLEEVES WITHIN OPENING IS BASED ON 1/8" PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGER WHOLE FOOT). EXAMPLE: A 30" x 24" FIRE DAMPER SLEEVE IS INSTALLED IN A WALL/FLOOR OPENING. THE OPENING SHALL BE 30 3/8" WIDE (1/8" x 3") BY 24 1/4" HIGH (1/8" x 2).
 - THE SLEEVE IS RETAINED IN THE WALL/FLOOR BY THE USE OF STEEL RETAINING ANGLES (A). THESE MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF ONE (1) INCH OVER AND BEYOND ALL MATERIAL IN THE OPENING. THIS MEANS THAT THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 3/8". (GOOD PRACTICE CALLS FOR AN ADDITIONAL SAFETY FACTOR BY MAKING THE ANGLE IN THIS CASE 1 1/2" WIDE).
 - THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND THE FIRE RESISTIVE MATERIALS PROVIDED WHERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL/FLOOR PENETRATION. THE CONTRACTOR ERECTING THE WALL/FLOOR IS RESPONSIBLE FOR PROVIDING THE FIRE RESISTIVE MATERIAL AND CORRECT SIZE OPENINGS TO ACHIEVE THE REQUIRED CLEARANCE.
 - THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.
- ① RETAINING ANGLES:** MINIMUM 1 1/2" x 1 1/2" x 0.054 (16 GAUGE). RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER OPENINGS OF CORNERS. CAULK THE EXTERIOR PERIMETER OF FIRE DAMPER RETAINING ANGLES WITH A THIN FILLET OF AN APPROVED CAULKING MATERIAL TO PREVENT THE PASSAGE OF SMOKE AND ALLOW MOVEMENT OF THE ANGLE.
- ② CLEARANCE:** 1/8" PER LINEAR FOOT IN BOTH DIMENSIONS (SEE NOTE 1 BELOW).
- ③ STEEL SLEEVE:** 14 GAUGE, OR AS ALLOWED BY U.L. STANDARD 555.
- ④ APPROVED FIRE DAMPER:** CURTAIN OR BLADE TYPE.
- ⑤ SECURE RETAINING ANGLES TO SLEEVE:** ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
- ⑥ SECURE FIRE DAMPER TO SLEEVE:** ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
- ⑦ CONNECT DUCT TO SLEEVE OR FIRE DAMPER:** WITH BREAKAWAY CONNECTION.
- ⑧ INSTALL HINGED ACCESS DOOR.**
- ⑨ NEGATOR CLOSURE SPRING.**

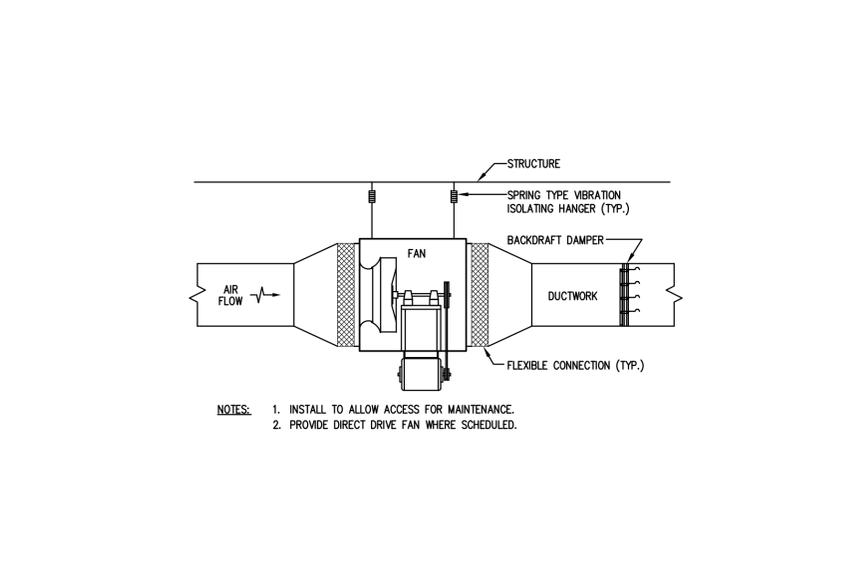
F RETURN OR EXHAUST CEILING GRILLE



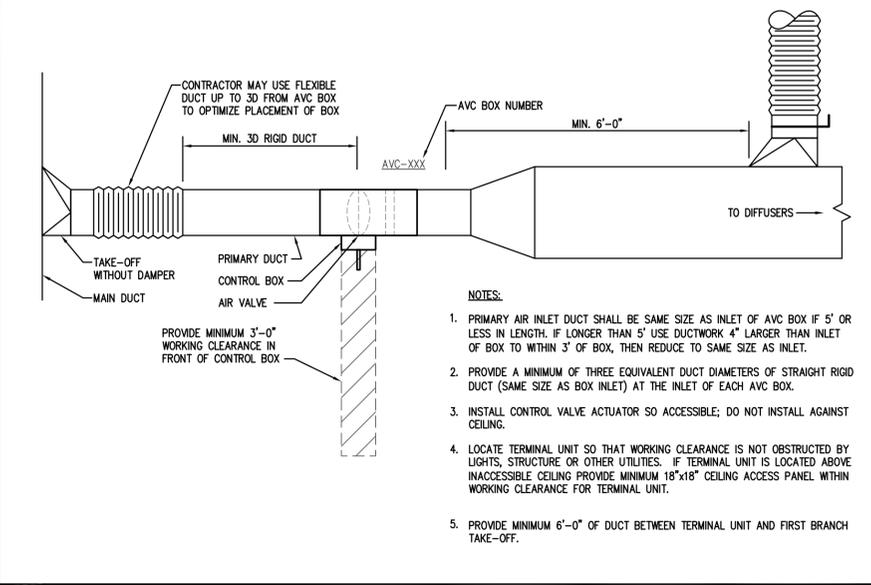
C FIRE/SMOKE DAMPER INSTALLATION



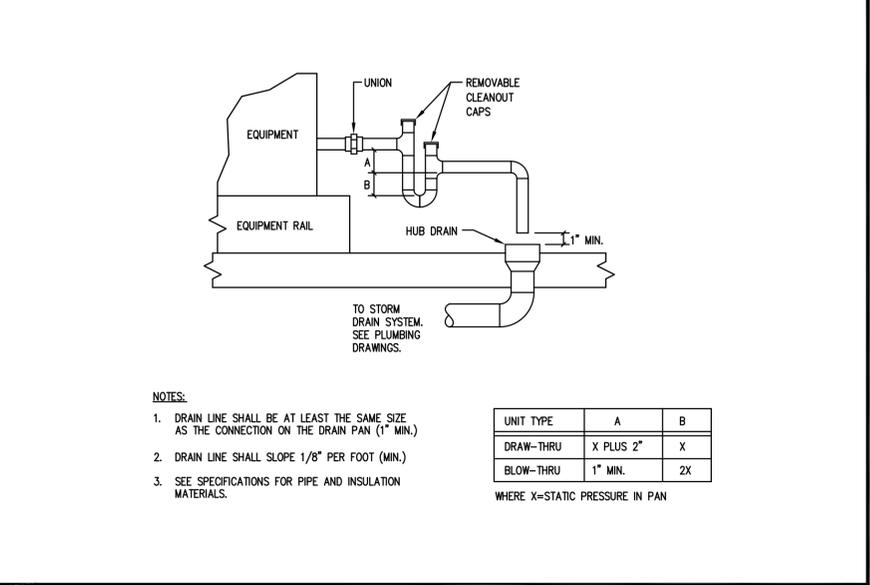
A FIRE DAMPER INSTALLATION



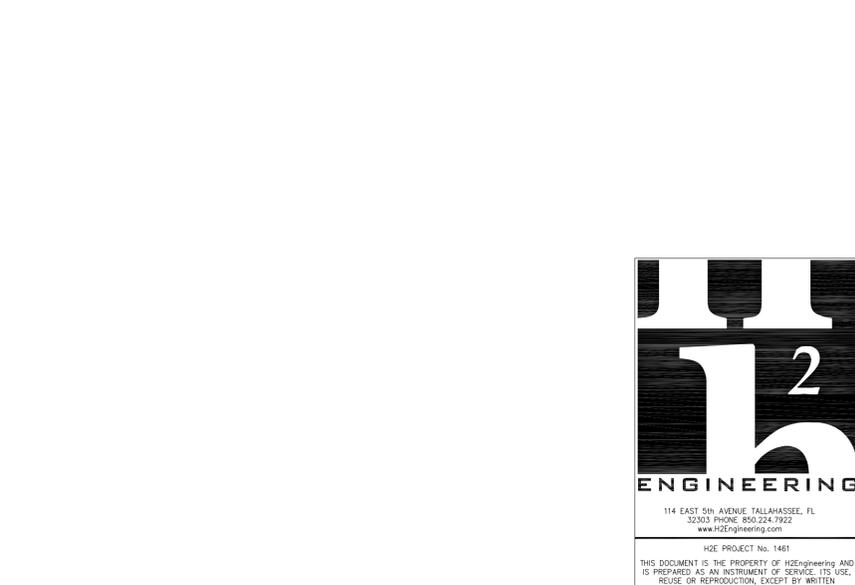
G EQUIPMENT ACCESS PANEL



D TYPICAL DUCT TAKE-OFF FITTINGS



B INLINE FAN



H AIR VOLUME CONTROLLER TERMINAL UNIT

E CONDENSATE DRAIN

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Revision

Date:	No.	Description:

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 Checked By: DMH

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
DETAILS - HVAC

Drawing No.: **M5.1**

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M5.1 DETAILS - HVAC

ELECTRIC WATER HEATER SCHEDULE table with columns for DESIGNATION, STORAGE, TOTAL ELECTRIC INPUT, NUMBER OF ELEMENTS, SIMULTANEOUS ELEMENTS OPERATION, RECOVERY RATE, TEMPERATURE RISE, LEAVING WATER TEMPERATURE, ELECTRICAL CHARACTERISTICS, MANUFACTURER, MODEL NUMBER.

WATER HAMMER ARRESTER SCHEDULE table with columns for CHART A - FOR GROUPED FIXTURES, CHART B - FOR LONG PIPE RUNS, P.D.I. SIZE, FIXTURE UNITS, LENGTH OF PIPE, NOMINAL PIPE DIAMETER.

NOTES: 1. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PDI-WH201.

PLUMBING FIXTURE SCHEDULE table with columns for FIXTURE NUMBER, DESCRIPTION, A.D.A. COMPLIANT, MOUNTING METHOD, HEIGHT (A.F.F.), ROUGH-IN PIPE SIZES (COLD WATER SUPPLY, HOT WATER SUPPLY, FIXTURE TRAP, FIXTURE DRAIN), MANUFACTURER AND MODEL NUMBER, ACCESSORIES.

PLUMBING FIXTURE ACCESSORY SCHEDULE table with columns for ACCESSORY NUMBER, ACCESSORY DESCRIPTION, MANUFACTURER AND MODEL NUMBER.

FIXTURE UNIT CALCULATIONS table with columns for FIXTURE TYPE, QUANTITY, DRAINAGE FIXTURE UNITS (PER FIXTURE, TOTAL), WATER SUPPLY FIXTURE UNITS (COLD, SUBTOTAL, HOT, SUBTOTAL, HOT & COLD, SUBTOTAL), DEMAND (GPM).

PLUMBING NOTES section containing 14 numbered notes regarding work standards, equipment, safety, and installation requirements.

MEASUREMENTS AND CONTROLS

MEASUREMENTS AND CONTROLS table listing THERMOMETER.

PIPING AND FITTINGS

PIPING AND FITTINGS table listing various pipe fittings and components like ELBOW TURNED UP, TEE, OUTLET UP, etc.

VALVES

VALVES table listing BALL VALVE, SWING CHECK VALVE, RELIEF VALVE, VALVE ACTUATORS (QUARTER TURN LEVER).

MISCELLANEOUS

MISCELLANEOUS table listing HINGED CEILING ACCESS PANEL, MINIMUM INVERT ELEVATION BELOW REFERENCE ELEVATION, POINT OF CONNECTION, PLUMBING TO CIVIL, 1 HOUR FIRE RATED WALL.

MINIMUM REQUIRED SLOPE

MINIMUM REQUIRED SLOPE table listing ALL DRAINAGE PIPING (PIPE SIZE, MIN. SLOPE, INCHES/FOOT) and a note: COMBINATION DRAIN AND VENT PIPING SHALL BE RUN AT A MAXIMUM SLOPE OF 1/2" PER FOOT.

GENERAL NOTES section containing 23 numbered notes regarding drawing standards, safety, and construction requirements.

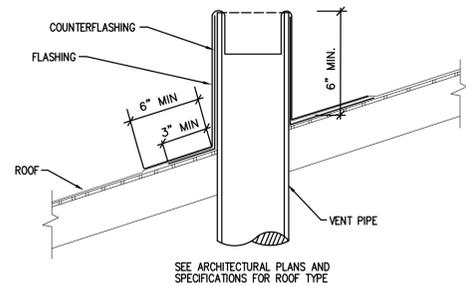
ABBREVIATIONS

ABBREVIATIONS table listing BFF, CO, CWS, CDV, DN, EGO, HWS, N/A and their corresponding descriptions.

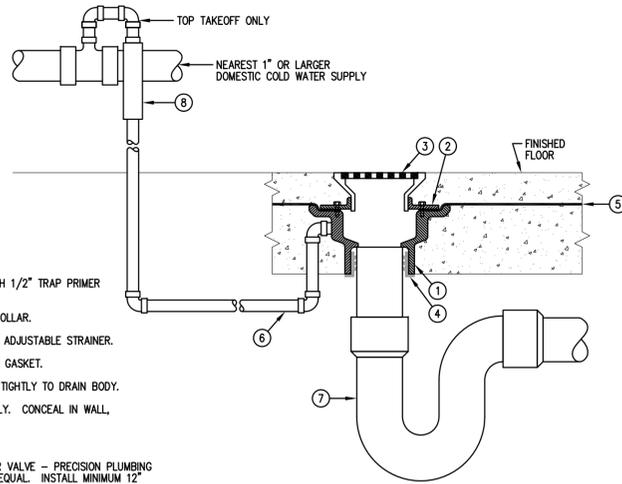
DRAWING INDEX

DRAWING INDEX table listing P0.1 GENERAL NOTES, LEGENDS AND SCHEDULES - PLUMBING, P5.1 FLOOR PLAN - PLUMBING DETAILS - PLUMBING.

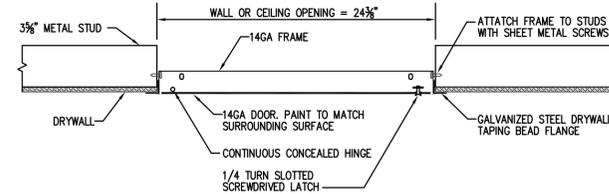
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- NOTES:**
1. FLASHING AND COUNTERFLASHING FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR.
 2. PAINT VENT TO MATCH ROOF.



- KEY NOTES: (THIS DETAIL ONLY)**
1. CAST IRON FLOOR DRAIN BODY WITH 1/2" TRAP PRIMER TAP AND 3" OUTLET.
 2. CAST IRON INVERTIBLE CLAMPING COLLAR.
 3. POLISHED NICKEL BRONZE 2-PIECE ADJUSTABLE STRAINER.
 4. PUSH-ON NEOPRENE COMPRESSION GASKET.
 5. WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
 6. 1/2" DOMESTIC COLD WATER SUPPLY. CONCEAL IN WALL, ABOVE CEILING OR BELOW FLOOR.
 7. 3" DEEP SEAL P-TRAP
 8. PRESSURE ACTIVATED TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS (P.P.P.) OR APPROVED EQUAL. INSTALL MINIMUM 12" A.F.F. FOR EVERY 20' OF PRIMER LINE. IF DISTRIBUTION UNIT DU-4 IS USED, UP TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.

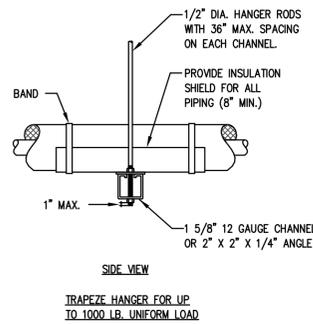
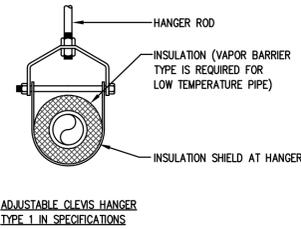
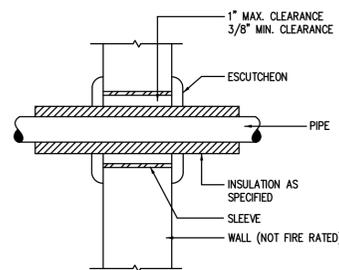


- NOTES:**
1. ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
 2. LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.

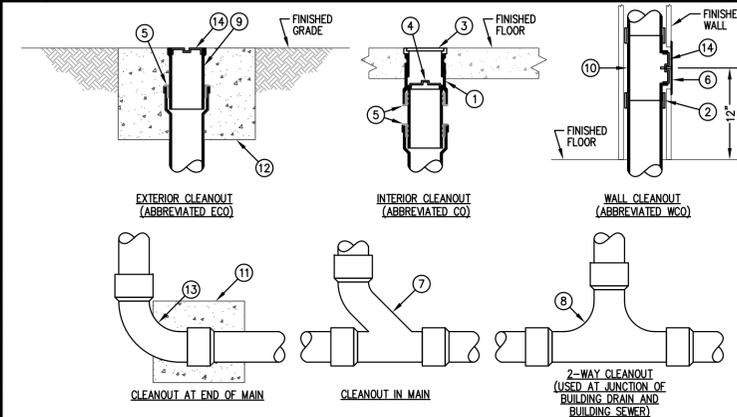
F VENT THRU ROOF

C FLOOR DRAIN

A EQUIPMENT ACCESS PANEL



- NOTES:**
1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.

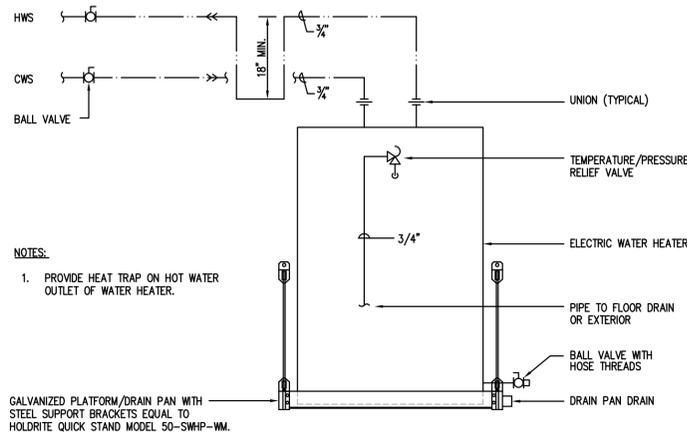


- KEY NOTES: (THIS DETAIL ONLY)**
1. CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
 2. NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
 3. POLISHED NICKEL BRONZE SCORIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
 4. BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
 5. PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
 6. STAINLESS STEEL ROUND WALL ACCESS COVER.
 7. COMBINATION WYE AND EIGHTH BEND FITTING.
 8. TWO-WAY CLEANOUT FITTING.
 9. CAST IRON CLEANOUT FERRULE.
 10. CAST IRON CLEANOUT TEE.
 11. 12"x12"x12" CONCRETE THRUST BLOCK.
 12. 24"x24"x12" CONCRETE PAD FLUSH WITH GRADE.
 13. LONG SWEEP ELBOW.
 14. BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.

G PIPE PENETRATION OF NON-FIRE RATED WALL

D TYPICAL PIPE HANGERS

B CLEANOUTS



- NOTES:**
1. PROVIDE HEAT TRAP ON HOT WATER OUTLET OF WATER HEATER.

H ELECTRIC WATER HEATER - SHELF MOUNTED



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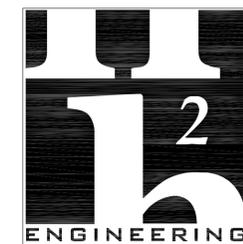
Drawn By: DAH
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Date: 10 JUNE 2015

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Drawing Title:
DETAILS - PLUMBING

Drawing No.: **P5.1**



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ELECTRICAL SYMBOLS LEGEND

NOTE: AN ELECTRICAL SYMBOL SHOWN IN THIS LEGEND IS NOT MEANT TO INDICATE THAT THE SPECIFIC EQUIPMENT IS REQUIRED FOR THIS PROJECT. (SEE THE FOLLOWING SHEETS FOR EQUIPMENT REQUIRED ON THIS PROJECT.)

POWER		LIGHTING AND LIGHTING CONTROLS		FIRE ALARM SYSTEM	
	DUPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF UNLESS NOTED OTHERWISE		LIGHT FIXTURE - CAPITAL LETTER INDICATES FIXTURE TYPE		FIRE ALARM ANNUNCIATOR PANEL
	DUPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT ABOVE COUNTERTOP		LIGHT FIXTURE WITH EMERGENCY BATTERY BALLAST		FIRE ALARM CONTROL PANEL
	DUPLEX RECEPTACLE - SPLIT WIRED - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF UNLESS NOTED OTHERWISE		STRIP FIXTURE		MANUAL FIRE ALARM PULL STATION - MOUNT 48" AFF UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE SERVING TV - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 78" AFF (U.N.O.).		RECESSED FIXTURE		FIRE ALARM HORN/STROBE - MOUNT 80" AFF TO BOTTOM OF STROBE UNLESS NOTED OTHERWISE
	QUADRAPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF UNLESS NOTED OTHERWISE		RECESSED FIXTURE WITH NICKEL CADMIUM BATTERY CAPABLE OF POWERING LAMPS AT 66 - 80% INITIAL LUMENS FOR 90 MINUTES		ADA COMPLIANT FLASHING STROBE - MOUNT 80" AFF TO BOTTOM OF STROBE UNLESS NOTED OTHERWISE
	SPECIAL PURPOSE RECEPTACLE - PROVIDE RECEPTACLE TO MATCH EQUIPMENT TO BE SERVED, MOUNT 18" AFF UNLESS NOTED OTHERWISE		EXIT LIGHT FIXTURE - PROVIDE ARROWS WHERE SHOWN. PROVIDE DOUBLE-FACE EXIT LIGHT WHERE INDICATED (POWERED EXIT SIGNS SHALL BE WIRED "UNSWITCHED")		SMOKE DETECTOR - CEILING MOUNTED - CONNECT TO FIRE ALARM SYSTEM
	FLOOR BOX - QUADRAPLEX POWER OUTLET AND 4 JACK PLATE FOR COMMUNICATIONS. (WALKER #RFB-4/2-DTB-2-2T/RAKMI). ROUTE 1" COMMUNICATION CONDUIT & 3/4" POWER CONDUIT TO CORRIDOR WALL UP WALL TO ABOVE CEILING, THEN TURN INTO CEILING SPACE AND PROVIDE BUSHING.		LED POLE MOUNTED FIXTURE - CAPITAL LETTER INDICATES FIXTURE TYPE		HEAT DETECTOR - CEILING MOUNTED, 135" TYPE UNLESS NOTED OTHERWISE
	QUADRAPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, FLUSH MOUNTED IN FLOOR (WALKER #RFB-4SS/ TWO RFB-DR/RAKMI).		PHOTO CELL - MOUNT NEAR TOP OF EXTERIOR WALL WHERE IT IS IN DIRECT SUNLIGHT		FIRE SYSTEM TO ACTUATE SOLENOID VALVE (VALVE BY OTHERS)
	DUPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, IN CEILING UNLESS NOTED OTHERWISE		DENOTES WALL MOUNTED DEVICE		FIRE ALARM SYSTEM RELAY
	12"x12"x4" DEEP PULL/JUNCTION BOX W/SCREW COVER (UNO)		LIGHTING CONTACTOR		DUCT MOUNTED SMOKE DETECTOR - CONNECTED TO FIRE ALARM SYSTEM
	JUNCTION BOX - 4" SQUARE UNLESS NOTED OTHERWISE ADO = AUTOMATIC DOOR OPERATOR		SINGLE-POLE TOGGLE SWITCH - 120/277 VOLT, 20 AMP, MOUNT 48" AFF	SECURITY	
	ELECTRICAL CONNECTION TO EQUIPMENT		THREE-WAY SWITCH - 120/277 VOLT, 20 AMP, MOUNT 48" AFF		SECURITY SYSTEM - CARD READER, PROVIDE ROUGH-IN ONLY. SEE DETAIL ON SHEET E5.2.
	WIRE IN CONDUIT - CONCEALED IN WALL OR CEILING		0-10V DIMMER SWITCH, 48" AFF		SECURITY SYSTEM - ELECTRIC DOOR LATCH, PROVIDE ROUGH-IN ONLY. SEE DETAIL ON SHEET E5.2.
	WIRE IN CONDUIT - CONCEALED IN FLOOR OR UNDERGROUND		MOTOR RATED TOGGLE SWITCH (20A/1P U.N.O.)		REQUEST TO EXIT DEVICE
	CONDUIT - STUB OUT AND CAP		OCCUPANCY SENSOR - LINE VOLTAGE, WALL MOUNTED, DUAL TECHNOLOGY - MOUNT 48" AFF		SECURITY CAMERA
	HOMERUN TO PANEL - ARROWS INDICATE NUMBER OF CIRCUITS. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NO SLASH MARKS INDICATE 1 PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR, U.N.O. NOTE THAT THE GREEN GROUND WIRE IS NOT SHOWN BUT IS REQUIRED IN EACH FEEDER, LIGHTING, RECEPTACLE, AND POWER BRANCH CIRCUIT. THERE SHALL BE NO SHARED NEUTRALS BETWEEN MULTIPLE CIRCUITS.		OCCUPANCY SENSOR - LOW VOLTAGE, WALL MOUNTED, DUAL TECHNOLOGY		ADO PUSH BUTTON
	ELECTRIC PANEL - 120/208 VOLT		OCCUPANCY SENSOR - LOW VOLTAGE, CEILING MOUNTED, DUAL TECHNOLOGY.	ABBREVIATIONS	
	MOTOR - NUMBER INDICATES HORSEPOWER		OCCUPANCY SENSOR -LOW VOLTAGE, CEILING MOUNTED, ULTRASONIC - COVERAGE FOR LONG NARROW APPLICATIONS (CORRIDORS, ETC.)	ACT	ABOVE COUNTERTOP
	DISCONNECT SWITCH - SEE DRAWING FOR SIZE *		POWER/SWITCH PACK - MATCH VOLTAGE OF LIGHTS - LOCATE ABOVE ACCESSIBLE CEILING WHERE POSSIBLE	ADO	AUTOMATIC DOOR OPERATOR
	COMBINATION DISCONNECT SWITCH & MAGNETIC MOTOR STARTER - WHEN SERVING MOTOR 15 HP OR LARGER, REDUCED VOLTAGE STARTER IS REQUIRED. (SEPARATE ITEMS ACCEPTABLE IN PLACE OF COMBINATION) - SEE DRAWING FOR SIZE *		DIGITAL TIME SWITCH W/ AUDIBLE OR VISUAL ALERT BEFORE LIGHTS TURN OFF - MOUNT 48" AFF	AFF	ABOVE FINISHED FLOOR
* EQUIPMENT SIZES WILL BE INDICATED AS FOLLOWS:			CEILING FAN, CEILING MOUNT AS NOTED ON PLANS. COOK 22" AIR CIRCULATOR, COMMERCIAL DUTY, 1/2 HP, CATALOG #20CAC11W FINISH PER ARCHITECT OR EQUAL. PROVIDE CEILING MOUNT RECEPTACLE.	AFG	ABOVE FINISHED GRADE
STARTER NEMA SIZE (NO # SHOWN FOR DISC SWITCHES)		TELECOMMUNICATIONS		C	CONDUIT
AMP RATING & POLE QTY.			COMMUNICATIONS BACKBOARD - EXTERIOR GRADE PLYWOOD, 8" HIGH X 3/4" THICK X WIDTH SHOWN ON PLANS	DN	DOWN
NEMA ENCLOSURE TYPE			COMMUNICATIONS TERMINAL OUTLET - 4" SQUARE OUTLET BOX, 2 1/8" DEEP WITH 1-GANG PLASTER RING. MOUNT AT 18" AFF. PROVIDE 1" CONDUIT TO ABOVE CEILING.	EM	FIXTURE WITH EMERGENCY BATTERY BALLAST
FUSE AMPS OR NON-FUSED (AS SHOWN)			COMMUNICATIONS WIRELESS ACCESS POINT TERMINAL OUTLET - 4" SQUARE OUTLET BOX, 2 1/8" DEEP WITH 1-GANG PLASTER RING MOUNT ABOVE CEILING.	EC	ELECTRICAL CONTRACTOR
GROUNDING BUS BAR. REFER TO SPECIFICATION SECTION 260526 "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."		TELEVISION		EGC	EQUIPMENT GROUNDING CONDUCTOR
LADDER RACK			TELEVISION OUTLET - MOUNT 78" AFF UNLESS OTHERWISE NOTED, 4" SQUARE BY 2 1/8" DEEP WITH 1-GANG PLASTER RING. ROUTE 1" CONDUIT TO ABOVE CEILING. MOUNT ADJACENT DUPLEX RECEPTACLE AT 78" AFF.	EPO	EMERGENCY POWER OFF
CLASSROOM EMERGENCY SHUT-OFF SYSTEM					
	CLASSROOM POWER CIRCUITS EMERGENCY CONTACTOR				
	EMERGENCY POWER OFF SWITCH - GLASS BREAK STYLE WITH NORMALLY CLOSED 120V CONTACT. PROVIDE TWO SPARE GLASS SHROUDS PER LOCATION.				

DRAWING INDEX	
E0.1	LEGEND - ELECTRICAL
E0.2	GENERAL NOTES AND SCHEDULE - ELECTRICAL
E1.0	SITE PLAN - ELECTRICAL
E1.1	FLOOR PLAN - LIGHTING
E2.1	FLOOR PLAN - POWER
E3.1	RISER DIAGRAMS - ELECTRICAL
E3.2	RISER DIAGRAM - SYSTEMS
E4.1	PANEL SCHEDULES - ELECTRICAL
E5.1	DETAILS - ELECTRICAL
E5.2	DETAILS - ELECTRICAL

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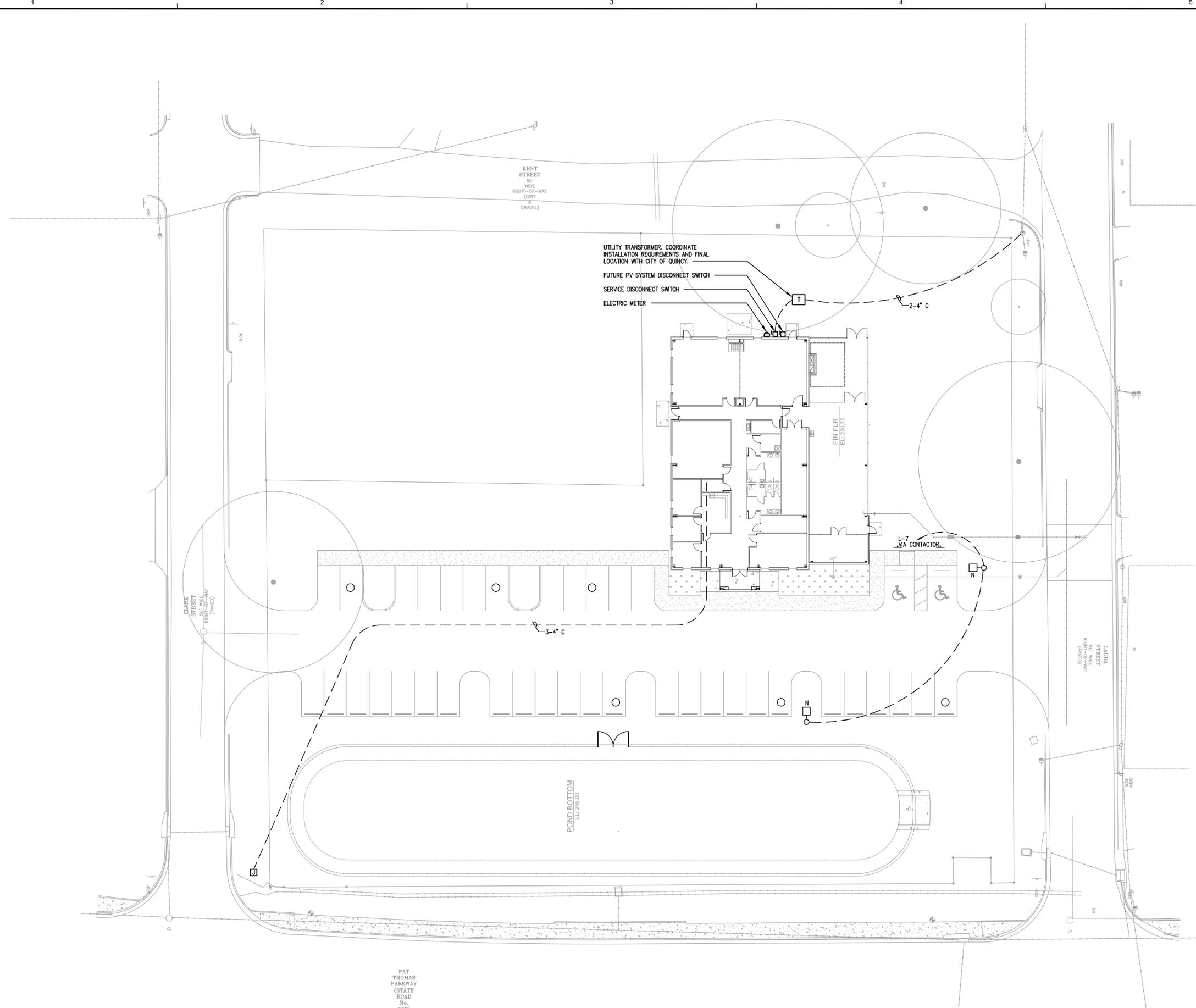
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Checked By: PCL

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Drawing Title:
LEGENDS - ELECTRICAL

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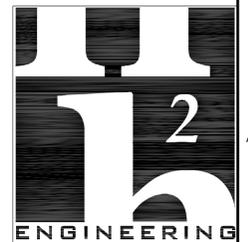
Drawn By: BRW
Checked By: PCL

Date: 10 JUNE 2015

Project No.: 14033

Drawing Title:
SITE PLAN - ELECTRICAL

Drawing No.: **E1.0**

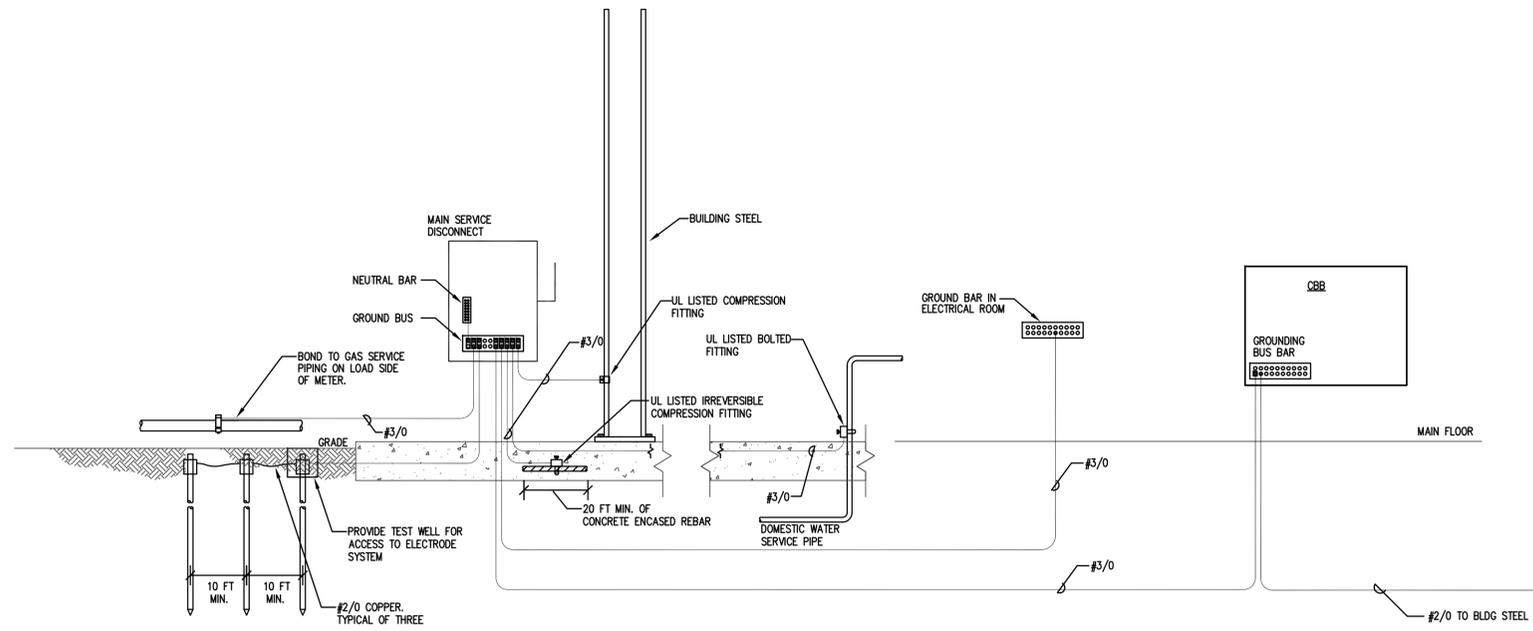


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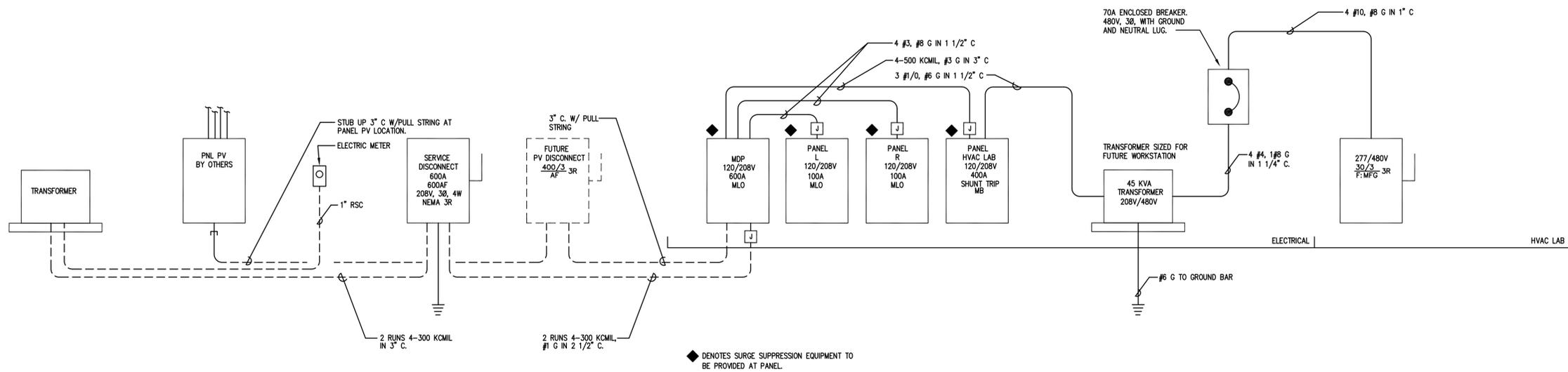


SITE PLAN - ELECTRICAL



RISER DIAGRAM - GROUNDING

NO SCALE



RISER DIAGRAM - POWER

NO SCALE



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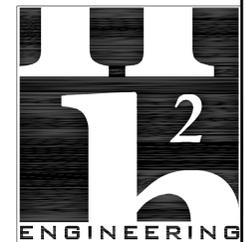
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Drawing Title:
RISER DIAGRAM - ELECTRICAL

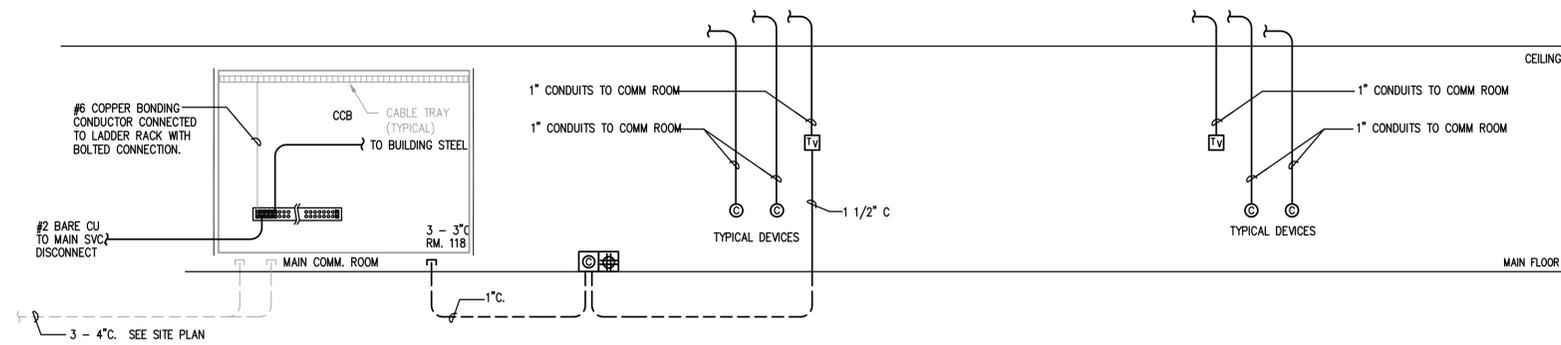
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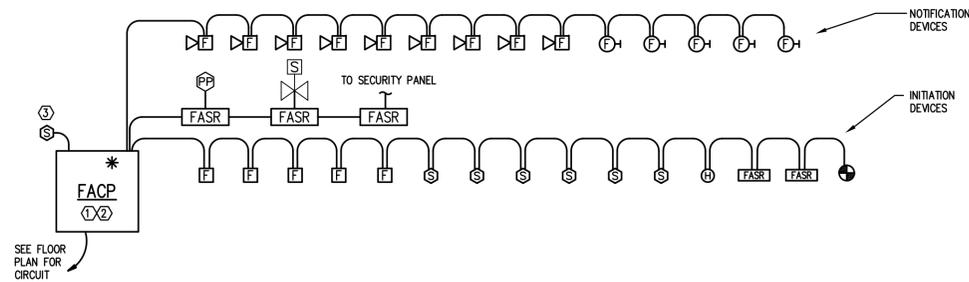
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RISER DIAGRAM - COMMUNICATIONS

NO SCALE



RISER DIAGRAM - FIRE ALARM

NO SCALE

NOTES

1. TERMINATE ALL TELECOM BONDING CONDUCTORS ON TWO-HOLE, LONG BARREL, COMPRESSION LUGS.
2. PROVIDE #2 BARE COPPER CONDUCTOR TERMINATED WITH EXOTHERMIC WELD ON BUILDING STEEL IN EACH COMMUNICATIONS ROOM. TERMINATE OTHER END OF CONDUCTOR WITH TWO-HOLE, LONG BARREL, COMPRESSION LUG.

FIRE ALARM SEQUENCE OF OPERATION

EVENT	ALARM AT FACP	ALARM OFF SITE	INITIATE NOTIFICATION APPLIANCES	TROUBLE AT FACP	TROUBLE NOTIFICATION OFF SITE	SUPERVISORY AT FACP	SUPERVISORY NOTIFICATION OFF SITE	FAN SHUT DOWN	CLOSE GAS SOLENOID	RELEASE LOCKING DEVICES	DEACTIVATE AUDIBLE NOTIFICATION APPLIANCES	ACTIVATE EMERGENCY LIGHTING	COMMENTS
SMOKE DETECTOR	●	●	●						●	●	●		
HEAT DETECTOR	●	●	●						●	●	●		
DUCT DETECTOR	●	●	●						●	●	●		
MANUAL PULL STATION	●	●	●						●	●	●		
WIRING FAULT				●	●								
AC POWER FAILURE				●	●								
ALARM SILENCE											●		

FIRE ALARM NOTES

1. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED.
2. ALL SPLICES SHALL BE MADE WITH CRIMP CONNECTORS. NO WIRE NUTS SHALL BE USED.
3. ALL MAIN JUNCTION BOXES AND TERMINAL CABINETS SHALL BE PROVIDED WITH TERMINAL BLOCKS FOR ALL TERMINATION.
4. ALL INITIATING DEVICES WITH SCREW TERMINALS SHALL BE CONNECTED TO THE WIRING SYSTEM WITH SPADE TERMINALS.
5. THE NUMBER AND TYPE OF CONDUCTORS TO BE PROVIDED IN THE FIRE ALARM SYSTEM RACEWAYS SHALL BE SHOWN ON THE FIRE ALARM DELEGATED DESIGN SUBMITTAL.
6. CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
7. * INCLUDES BATTERY BACK-UP.
8. RISER DIAGRAM IS DIAGRAMMATICAL IN NATURE AND DOES NOT SHOW EVERY DEVICE ASSOCIATED WITH THE SYSTEM. THE FIRE ALARM CONTRACTOR SHALL SUBMIT A COMPLETE ONE LINE INDICATING EVERY DEVICE INTEGRATED WITH THE FIRE ALARM SYSTEM.

FIRE ALARM KEY NOTES

- ① PROVIDE 120V POWER AS REQUIRED FOR FIRE PANEL. COORDINATE WITH THE INSTALLED EQUIPMENT.
- ② PROVIDE TYPE 3A SURGE PROTECTION DEVICES FOR EACH INITIATION AND NOTIFICATION CIRCUITS THAT SERVE DEVICES ON THE BUILDING EXTERIOR AND IN THE HVAC LAB. SURGE PROTECTIVE DEVICE LOCATIONS SHALL BE INDICATED ON FIRE ALARM SHOP DRAWINGS.
- ③ PROVIDE A SMOKE DETECTOR WITHIN 5 FEET OF FACP.



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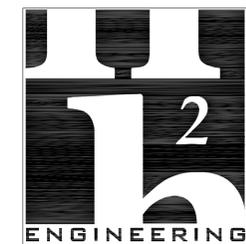
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Date: 10 JUNE 2015

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Drawing Title:
RISER DIAGRAM - SYSTEMS

Drawing No.: **E3.2**



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600A, 120/208V, 3Ø, 4W
MLO
IER=18,000 AIC RMS SYM

PANEL 'MDP' CIRCUIT SCHEDULE

SURFACE

CIRCUIT	SERVING	CONN. LOAD	COND. SIZE	WIRE SIZE	CKT. BREAKER			PHASE	CKT. BREAKER			WIRE SIZE	COND. SIZE	CONN. LOAD	SERVING	CIRCUIT
					BKR	CLASS	POLE		POLE	CLASS	BKR					
1	PANEL R	57			100		3	3					221	PANEL HVAC	2	
3		61											208		4	
5		36											211		6	
7	PANEL L	23			100		3	3						FUTURE PV SYSTEM	8	
9		29												DISCONNECT	10	
11		26													12	
13	SURGE SUPPRESSION	-	1"	8	30		3	3					8	AHU- DISCONNECT	14	
15															16	
17															18	
19	SPACE														20	
21															22	
23															24	
25															26	
27															28	
29															30	
31															32	
33															34	
35															36	
37															38	
39															40	
41															42	

CONNECTED LOAD=414A

100A, 120/208V, 3Ø, 4W
MLO
IER=18,000 AIC RMS SYM

PANEL 'L' CIRCUIT SCHEDULE

SURFACE

CIRCUIT	SERVING	CONN. LOAD	COND. SIZE	WIRE SIZE	CKT. BREAKER			PHASE	CKT. BREAKER			WIRE SIZE	COND. SIZE	CONN. LOAD	SERVING	CIRCUIT			
					BKR	CLASS	POLE		POLE	CLASS	BKR								
1	LTS - 101-105, ECT.	7	1/2"	12	20		1	3					30	8	1'	-	SURGE SUPPRESSION	2	
3	LTS - 110, 113, ECT.	4																	4
5	LTS - 117, 118	6																	6
7	LTS - EXTERIOR	3	1"																8
9	SPARE																		10
11	WH-1	14	1/2"	12			2	2											12
13		14																	14
15	SPACE																		16
17																			18
19																			20
21																			22
23																			24
25																			26
27																			28
29																			30
31																			32
33																			34
35																			36
37																			38
39																			40
41																			42

CONNECTED LOAD=40A

100A, 120/208V, 3Ø, 4W
MLO
IER=18,000 AIC RMS SYM

PANEL 'R' CIRCUIT SCHEDULE

SURFACE

CIRCUIT	SERVING	CONN. LOAD	COND. SIZE	WIRE SIZE	CKT. BREAKER			PHASE	CKT. BREAKER			WIRE SIZE	COND. SIZE	CONN. LOAD	SERVING	CIRCUIT
					BKR	CLASS	POLE		POLE	CLASS	BKR					
1	REC. RM 117	11	3/4"	10	20		1	1					14	REC. RM 101, 103	2	
3	RM 118	11											16	RM 107, 109	4	
5	RM 110	9											2	RM 105 COPIER	6	
7	RM 110 COMPUTER	3											2	RM 105	8	
9	RM 110 COMPUTER	3											2	RM 105	10	
11	RM 110 COMPUTER	3											2	RM 105	12	
13	RM 110 COMPUTER	3											3	RM 108	14	
15	RM 110 COMPUTER	3											3	RM 108	16	
17	RM 117	2											3	RM 108	18	
19	RM 117	2											3	RM 108	20	
21	RM 117	2											3	RM 108	22	
23	RM 105	2											3	RM 108 DATA COM	24	
25	RM 112-115	9											6	RM C100, C116	26	
27	RM 102, 104	15											2	WATER FOUNTAIN	28	
29	SURGE SUPPRESSION	-	1"	8	30		3	3					8	EXTERIOR	30	
31															32	
33															34	
35	SPARE				20										36	
37															38	
39															40	
41															42	

CONNECTED LOAD=60A

400A, 120/208V, 3Ø, 4W
MB SHUNT TRIP
IER=18,000 AIC RMS SYM

PANEL 'HVAC' CIRCUIT SCHEDULE

SURFACE

CIRCUIT	SERVING	CONN. LOAD	COND. SIZE	WIRE SIZE	CKT. BREAKER			PHASE	CKT. BREAKER			WIRE SIZE	COND. SIZE	CONN. LOAD	SERVING	CIRCUIT		
					BKR	CLASS	POLE		POLE	CLASS	BKR							
1	LIGHTS HVAC LAB	6	3/4"	12	20		1	3					60	6	1"	30	HVAC LAB DISCONNECT	2
3	REC. HVAC LAB, RM 126	5														30		4
5	HVAC LAB, RM 121	5													30			6
7	HVAC LAB	3													30			8
9	HVAC LAB	3													30			10
11	FUTURE FAN	6													30			12
13	FUTURE FAN	6													30			14
15	SPACE														30			16
17															30			18
19																		20
21																		22
23																		24
25	SURGE SUPPRESSION	-	1"	8	30		3	3					150	-	-	110	TRANSFORMER	26
27																110		28
29																110		30
31	EF-1	5.8	1/2"	12	20		1	1										32
33	SPARE																	34
35																		36
37																		38
39																		40
41																		42

CONNECTED LOAD=221A



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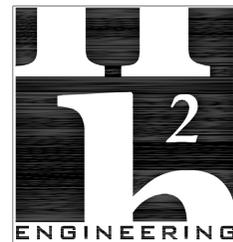
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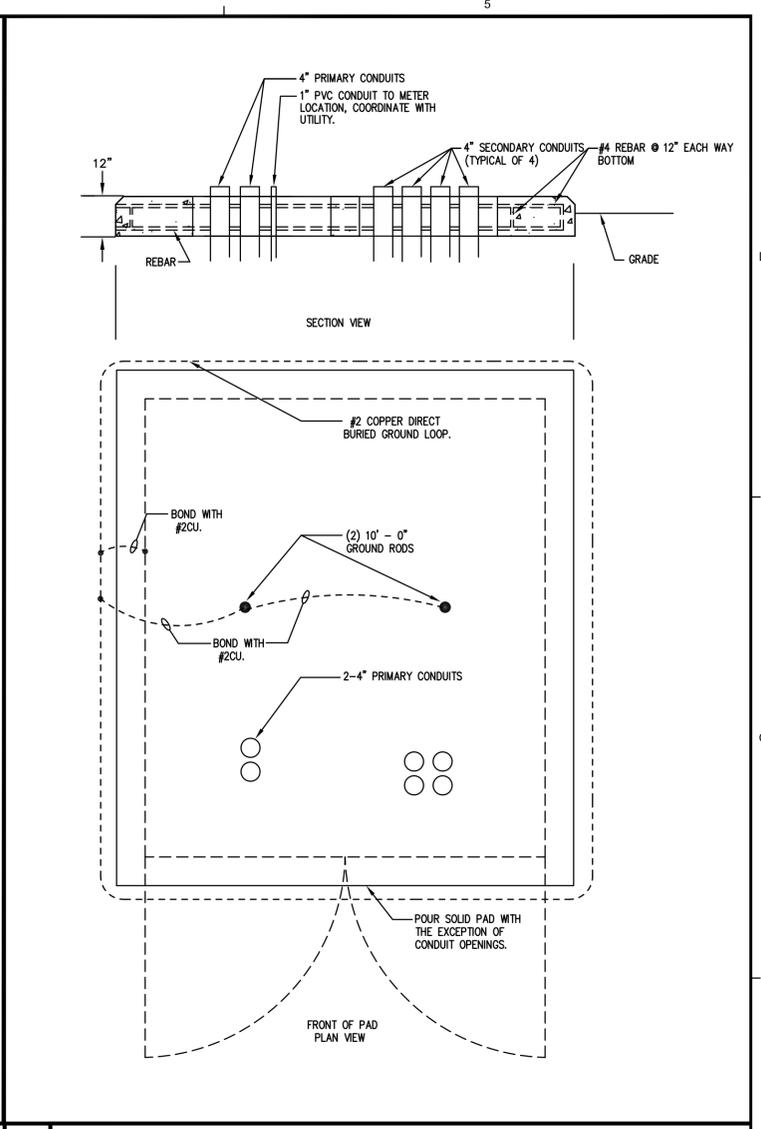
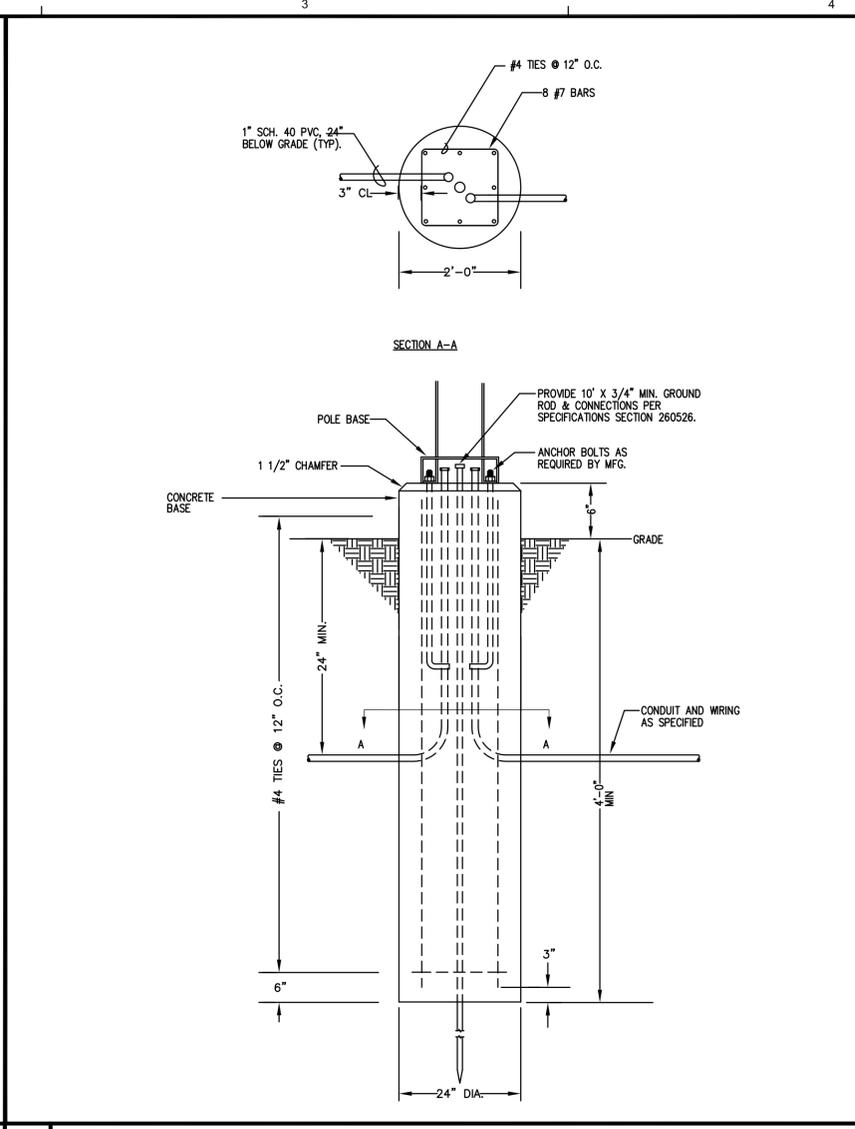
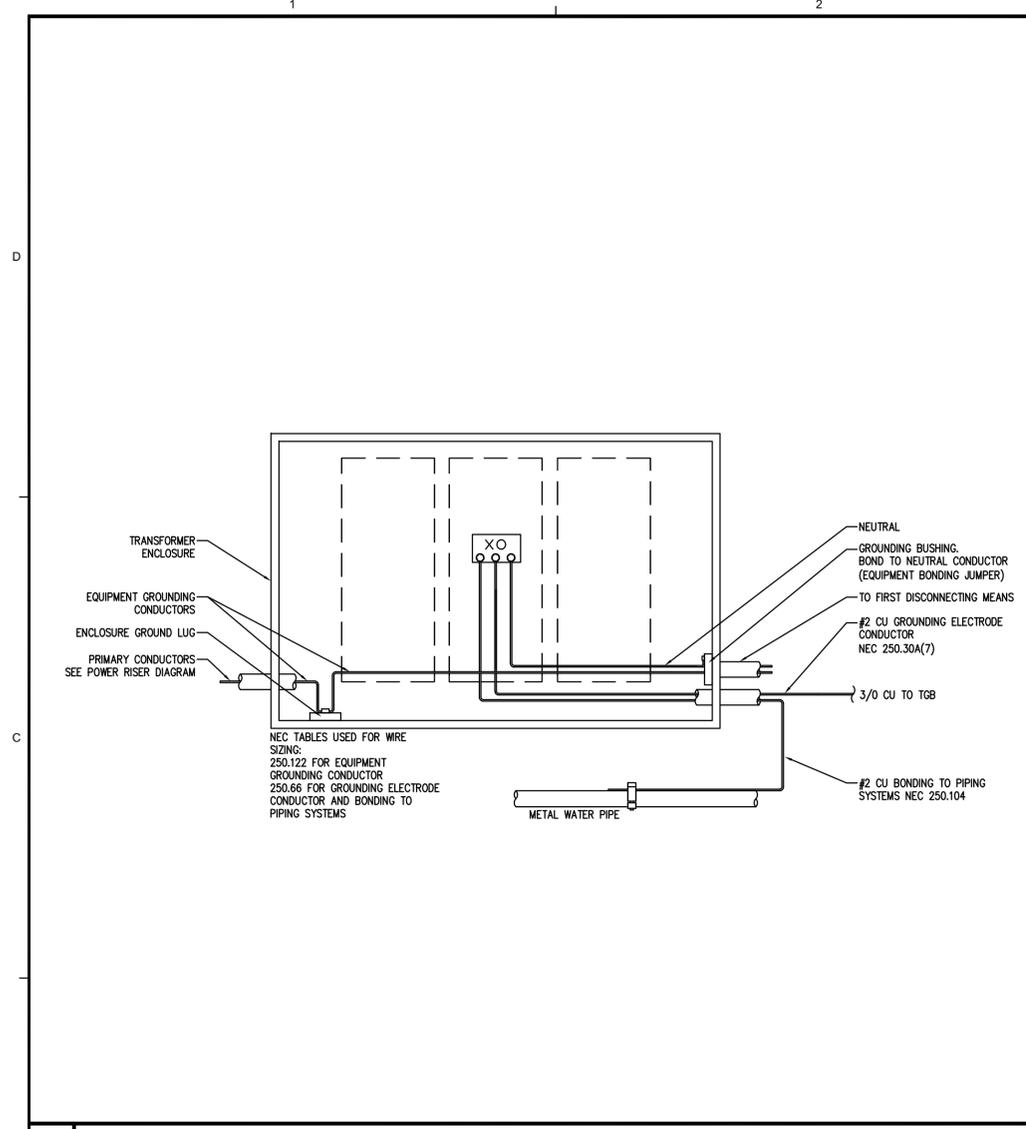
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Drawing Title:
PANEL SCHEDULES - ELECTRICAL

Drawing No.: **E4.1**



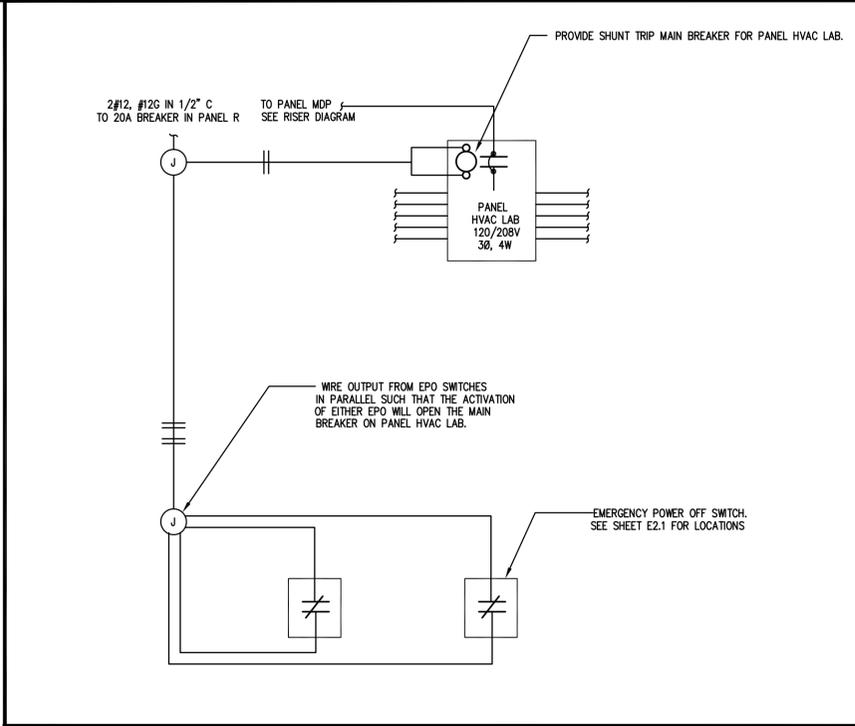
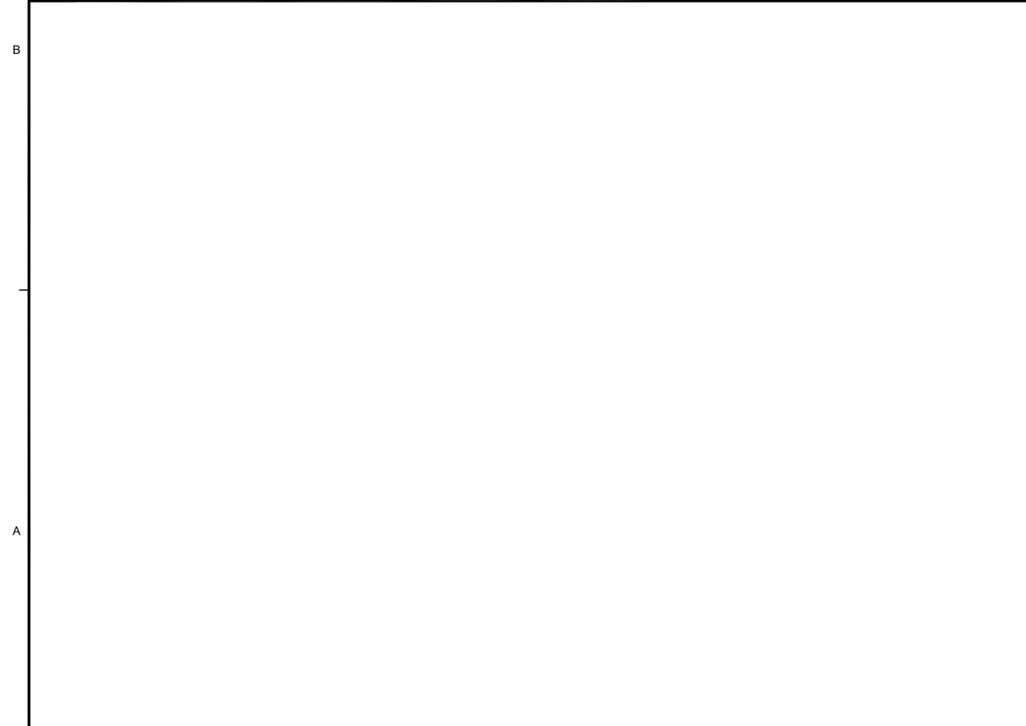
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C TRANSFORMER GROUNDING NO SCALE

B POLE BASE DETAIL NO SCALE

A TRANSFORMER PAD DETAIL NO SCALE



F LABORATORY EMERGENCY POWER OFF WIRING DIAGRAM NO SCALE

D LIGHTING CONTROL DIAGRAM NO SCALE

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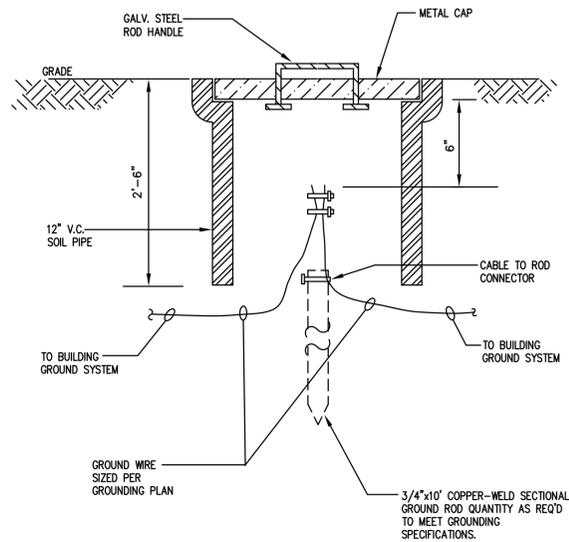
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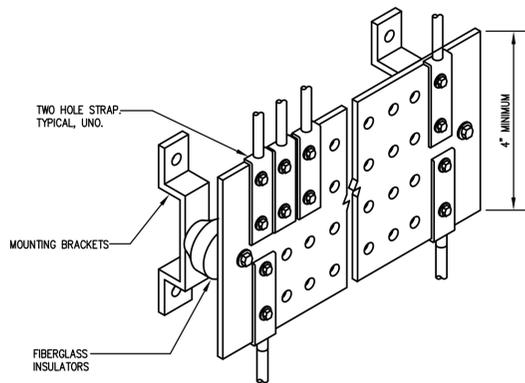
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C ELECTRICAL GROUND TEST WELL

NO SCALE



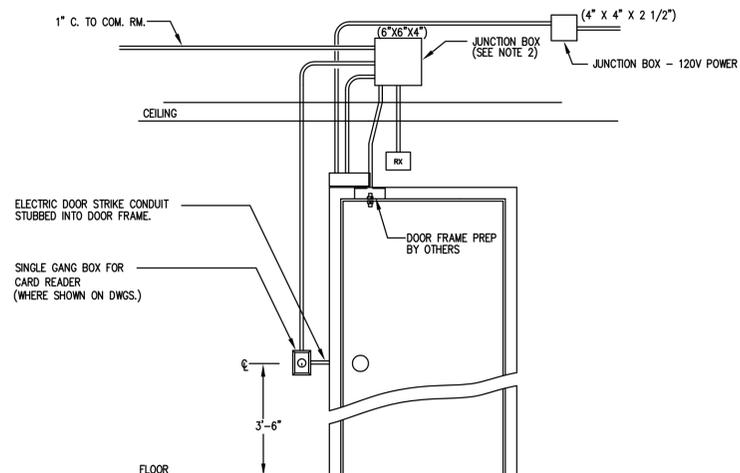
NOTES:

1. PROVIDE LENGTH AS INDICATED ON THE DRAWINGS. CONNECTIONS SHALL UTILIZE TWO HOLE COMPRESSIONS CONNECTORS, UNO.
2. GROUND BAR SHALL BE MOUNTED A MINIMUM 2" OFF OF WALL.
3. FIBERGLASS INSULATORS SHALL HAVE A MINIMUM DIELECTRIC STRENGTH OF 15KV.
4. MOUNT GROUND BAR IN EACH TELECOMMUNICATIONS ROOM.
5. BUS BAR SHALL BE ALLOY 110 ETP COPPER.

F GROUND BUS BAR

NO SCALE

B NOT USED



NOTES:

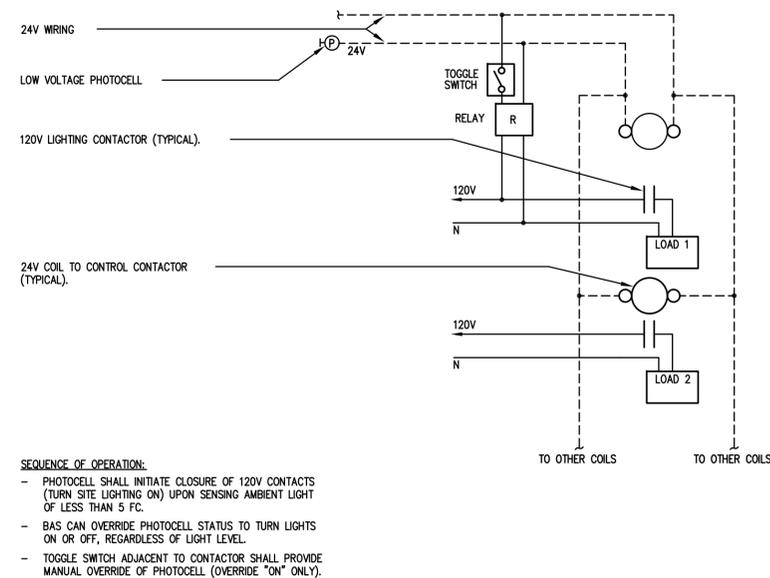
1. STUB 3/4" CONDUIT INTO HEAD OF DOOR FRAME 6" FROM STRIKE SIDE OF FRAME FOR CONCEALED MAGNETIC DOOR POSITION SWITCH.
2. ALL JUNCTION BOXES AND CONDUIT SHALL BE CONCEALED AND/OR FLUSH MOUNTED IN WALLS. CONCEALED CONDUIT SHALL EXTEND UP WALL AND SHALL STUB OUT ABOVE ACCESSIBLE CEILING.
3. THIS APPLIES FOR THE DATA ROOM 108 DOOR AND BOTH CORRIDOR C116 EXIT DOORS.

E SINGLE DOOR CARD READER ROUGH IN

NO SCALE

A SITE LIGHTING CONTACTOR DIAGRAM AND SCHEDULE

NO SCALE



SEQUENCE OF OPERATION:

- PHOTOCELL SHALL INITIATE CLOSURE OF 120V CONTACTS (TURN SITE LIGHTING ON) UPON SENSING AMBIENT LIGHT OF LESS THAN 5 FC.
- BAS CAN OVERRIDE PHOTOCELL STATUS TO TURN LIGHTS ON OR OFF, REGARDLESS OF LIGHT LEVEL.
- TOGGLE SWITCH ADJACENT TO CONTACTOR SHALL PROVIDE MANUAL OVERRIDE OF PHOTOCELL (OVERRIDE "ON" ONLY).

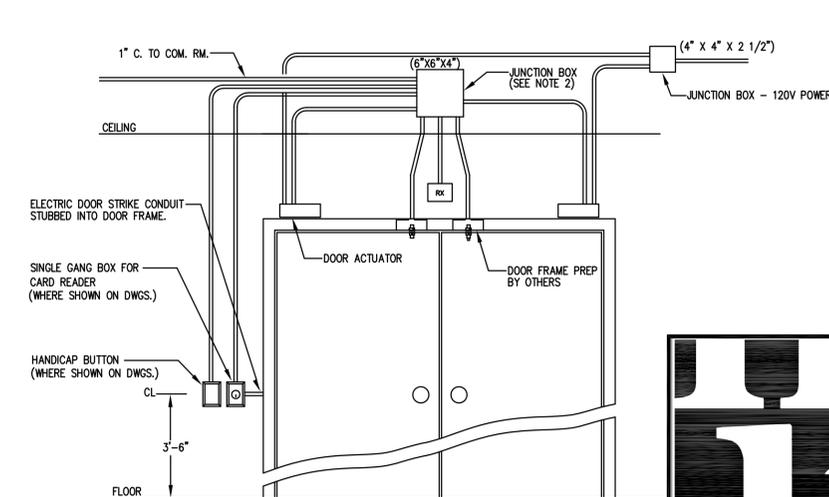
LIGHTING CONTACTOR 'LC' SCHEDULE

PROVIDE 4 POLE CONTACTOR. CONTACTS SHALL BE RATED FOR 20A AT 120V. CONTROL/COIL VOLTAGE SHALL BE 24V.

	LOAD (VA)	SERVED BY	LOAD SERVED	WIRE	CONTROL
1	190	L-7	EXTERIOR BLDG. LIGHTS	12	PHOTOCELL
2	400	L-7	SITE LIGHTS	10	PHOTOCELL
3	-	-	SPARE	-	-
4	-	-	SPARE	-	-

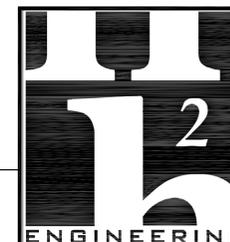
D DOUBLE DOOR ROUGH IN

NO SCALE



NOTES:

1. ALL JUNCTION BOXES AND CONDUIT SHALL BE CONCEALED AND/OR FLUSH MOUNTED IN WALLS. CONCEALED CONDUIT SHALL EXTEND UP WALL AND SHALL STUB OUT ABOVE ACCESSIBLE CEILING.
2. ALL JUNCTION BOXES AND CONDUIT SHALL BE CONCEALED AND/OR FLUSH MOUNTED IN WALLS. CONCEALED CONDUIT SHALL EXTEND UP WALL AND SHALL STUB OUT ABOVE ACCESSIBLE CEILING.
3. THIS APPLIED FOR THE MAIN ENTRANCE DOOR IN ROOM 101 RECEPTION.



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D DOUBLE DOOR ROUGH IN

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Drawing Title:
DETAILS - ELECTRICAL

Drawing No.: **E5.2**