

CASTLE HILL ACADEMY DAY CARE CENTER

SW WOODBRANCH LN, LAKE CITY
COLUMBIA COUNTY, FLORIDA

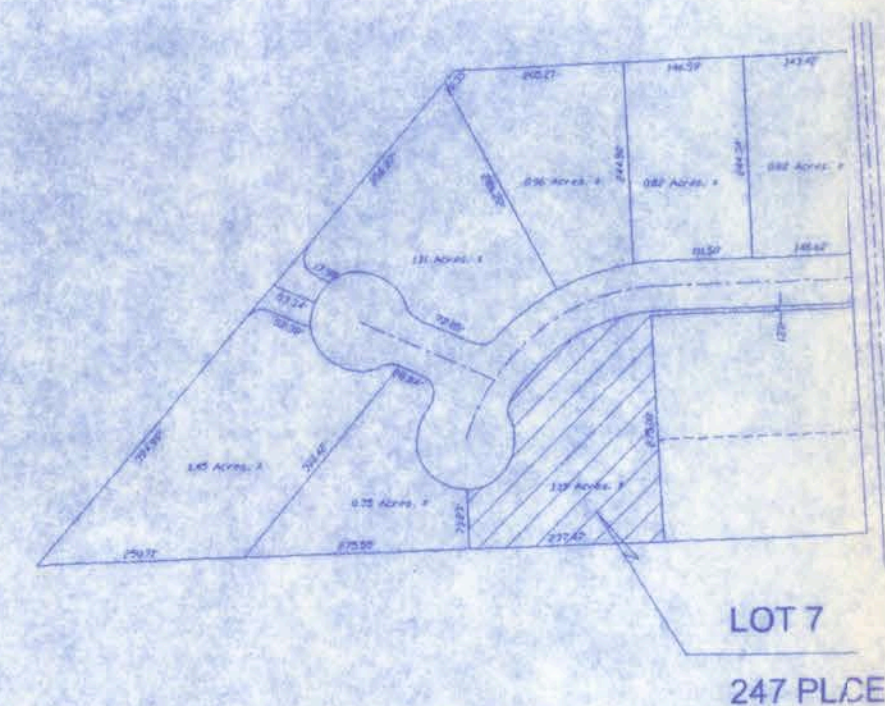


Development Information

CASTLE HILL ACADEMY
DAY CARE CENTER
NEW CONSTRUCTION
1.15± ACRES
PROJECT LOCATION:
LAKE CITY, FLORIDA
PARCEL IDS: # 02918-107
ZONING: COMMERCIAL INTENSIVE (CI)
EXISTING USE: NONE
FUTURE LAND USE PLAN MAP CATEGORY: CI

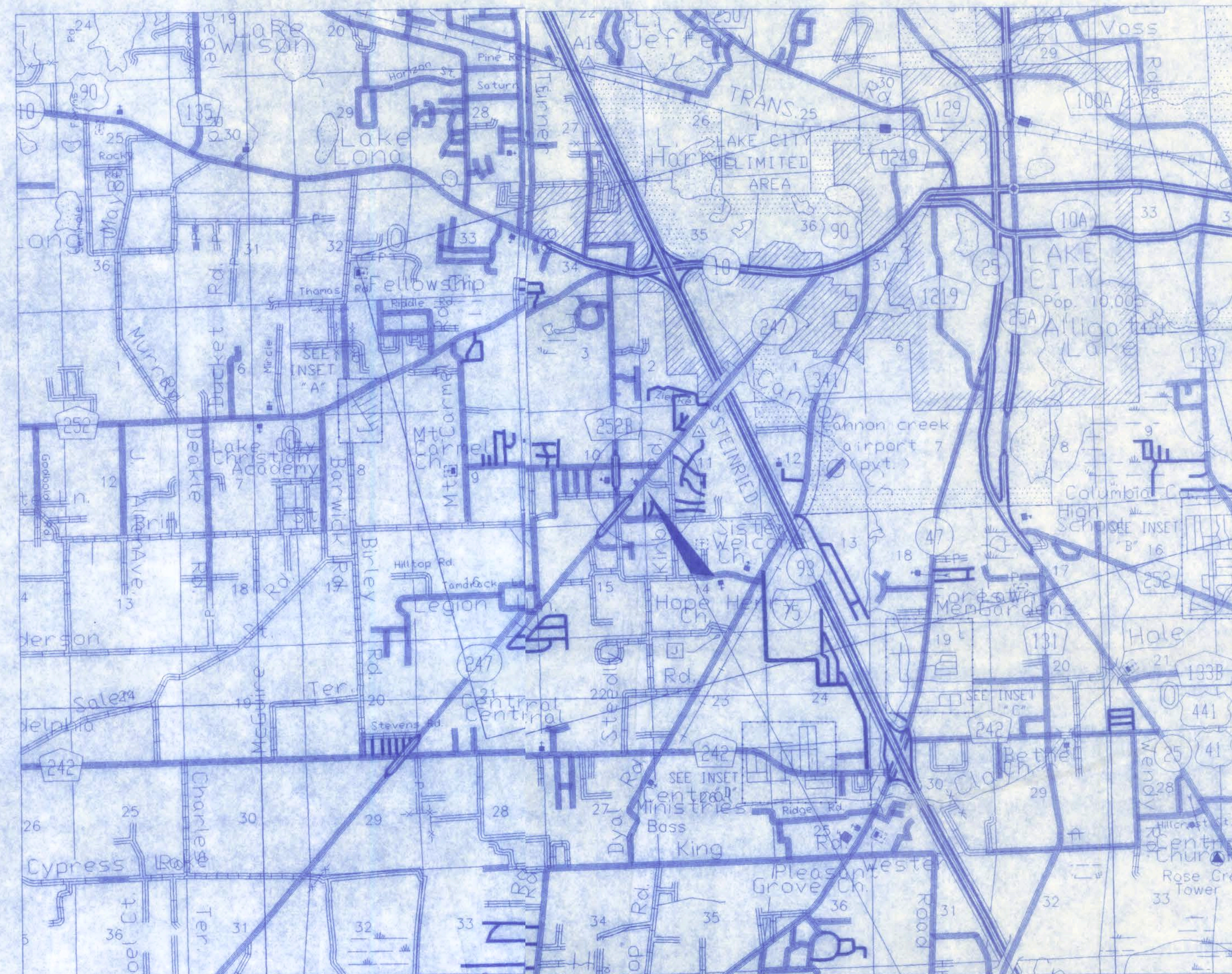
INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
SP-1	GENERAL NOTE
SP-2	SITE PLAN
SP-3	GRADING PLAN
SP-4	SITE DETAILS
SP-5	DRIVEWAY CONNECTION
LS-1	LIFE SAFETY LAOUT
LS-2	ALARM LAYOUT
A-1	GENERAL NOTE
A-2	FLOOR PLAN
A-3	ELEVATION (1 C 2)
A-4	ELEVATION (2 C 2)
A-5	FOUNDATION PAN
A-6	ROOF PLAN
A-7	SECTIONS
A-8	FRAMING DETAS
A-9	WALL SECTION ND DETAILS
A-10	DOOR AND FINIH SCHEDULES
A-11	SHEARWALL LAOUT
P-1	PLUMBING LAYOUT
M-1	HVAC LAYOUT
E-1	ELECTRICAL AN LIGHTING PLAN
E-2	ELECTRICAL PAEL DIAGRAMS
SAN-1	SEPTIC PLAN



VICINITY MAP

NOT TO SCALE



PLANS PREPARED FOR:

CASTLE HILL ACADEMY
LOCAL CONTACT:
THERESA BOYETTE
1925 SE CR 245
LAKE CITY, FLORIDA 32025
(386) 719-9922

ENGINEER AND PLANNER:

Freeman
Design Group



128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

NOTE:
THE SCALE OF THESE PLANS MAY HAVE
BEEN CHANGED DUE TO REPRODUCTION



P.E. NO: 56001

DOB 23 July 79

GENERAL NOTES

GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED AS SHOWN. ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWING(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DRAINAGE SYSTEMS

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DRAINAGE INCLUDING EXCAVATION OF WORK AREAS PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDED IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE DRAINAGE COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS.

THE CONTRACTOR IS TO OBTAIN A COPY OF THAT SOILS REPORT FOR REVIEW PRIOR TO CONSTRUCTION; AND THE CONSTRUCTION IS TO CONFORM TO THE RECOMMENDATIONS IN THAT REPORT.

AS-BUILTS

AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED, AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL AS-BUILT REQUIREMENTS.

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE FOR THE LAYOUT OF ALL OF THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS

ALL TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, COUNTY, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. THE CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

SHOP DRAWINGS

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

EROSION CONTROL

EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS, AS REQUIRED. REFER TO WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES SHOWN ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER AND ENGINEER.
NOTE:
THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR TREE BARRICADING INFORMATION.

SCREENING:

WALLS AND FENCES SHALL BE LANDSCAPED ALONG THE ENTIRE EXTERIOR SIDE SO THAT ONE-THIRD OR MORE OF THE VERTICAL FACE OF THE FENCE OR WALL IS SCREENED BY PLANTINGS. THE APPLICANT SHALL BE REQUIRED TO DEMONSTRATE PROVISION FOR ACCESS AND MAINTENANCE OF LANDSCAPING AT THE TIME OF LANDSCAPE OR PLANTING PLAN APPROVAL.

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

MATERIAL STORAGE/DEBRIS REMOVAL

ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NON-ORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL MATERIALS.

FILL MATERIAL

ALL FILL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

COMPACTION

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

PAVEMENT AND/OR ROAD AND R/W WORK

GENERAL DESIGN INTENT

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES SHOWN ON THE PLANS. IN THESE AREAS, IT MAY ALSO BECOME ADVISABLE TO MAKE MINOR LOCAL FIELD ADJUSTMENTS IN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.

MATERIALS/CONSTRUCTION SPECIFICATIONS

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PAVEMENT SECTION REQUIREMENTS

CONSTRUCTION OF DRIVES AND PARKING SHALL BE 8" OF STABILIZED SUBBASE WITH A LIMEROCK BEARING RATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIMEROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180 AND 1 1/4" TYPE S-1 OF VIRGIN ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

SIDEWALKS

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4" OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOoled OR SAWCUT AT A DISTANCE OF 5' LENGTHS, HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

PAVEMENT MARKINGS/SIGNAGE

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

TRAFFIC CONTROL

A MINIMUM OF 2-WAY ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WARNING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

CURBING

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

R/W RESTORATION

ALL AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMEROCK AND ROCKS AND SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

SITE ACCESS

ALL ACCESS TO THE JOB-SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT.

CONSTRUCTION NOTES:

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.

ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION.

THE STORMWATER BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 40B-4 F.A.C.

THE RETENTION BASIN SHALL BE CONSTRUCTED INITIALLY TO SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION.

ALL SLOPES OF THE STORMWATER BASIN AND OUTFALL DITCHES SHALL BE SEEDED & MULCHED. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.

ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG TERM VEGETATION AND QUICK GROWING SHORT TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF MILLET.

A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES, OUTFALL DITCHES AND COLLECTION PIPE OUTLETS.

EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED.

THE CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIRECTED BY THE ENGINEER.

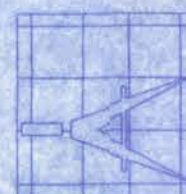
THE CONTRACTOR SHALL ADHERE TO THE EROSION CONTROL PLAN, SHEET SP-3, BEFORE COMMENCING ANY EARTHWORK ON THE SITE.



CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32725
(888) 758-4209

CERTIFICATE OF AUTHORIZATION # 00008701



Freeman
Design Group inc

DATE
5/20/05

DRAWN BY
W.H.F.

REVISIONS

SHEET SP-1

OF 5

PROJECT NO.

19-C007

NOTE:
CONTRACTOR SHALL FIELD VERIFY ELEVATIONS
OF CULVERT TO PROVIDE POSITIVE DRAINAGE
TO THE RETENTION BASIN. MATCH THE EXISTING
DITCH BOTTOMS

TEMP. HAY BALES

match road

PROVIDE 20' WIDE BY 50' LONG
BY 6" DEEP OF CRUSHED GRAVEL
FOR TEMPORARY EGRESS

TEMPORARY SILT FENCE

126.92

127.32

127.80

128.20

128.10

128.40

128.40

128.40

128.20

127.80

127.32

126.92

match road

existing cross drain

field adjust location
to avoid interference
with existing cross drain

TEMPORARY SILT FENCE

TEMP HAY BALES

match road

128.50

128.50

128.5

128.5

Finished slab EL. 129.00'

GRAPHIC SCALE

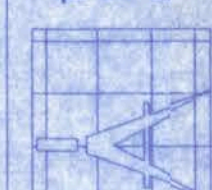
SCALE: 1" = 20'

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL COMPLY WITH MINIMUM STANDARDS FROM APPLICABLE STORMWATER MANAGEMENT CRITERIA ADOPTED. SOME OF THESE STANDARDS ARE AS FOLLOWS:

- William P. Sweeney*
C-78729
P.E.#506m

CASTLE HILL ACADEMY

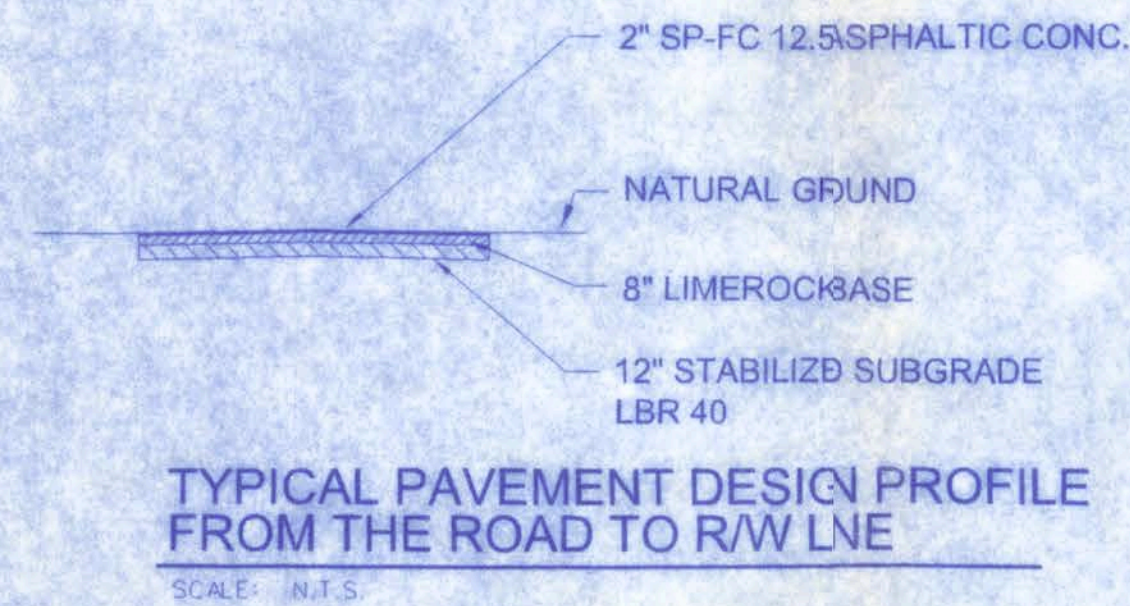
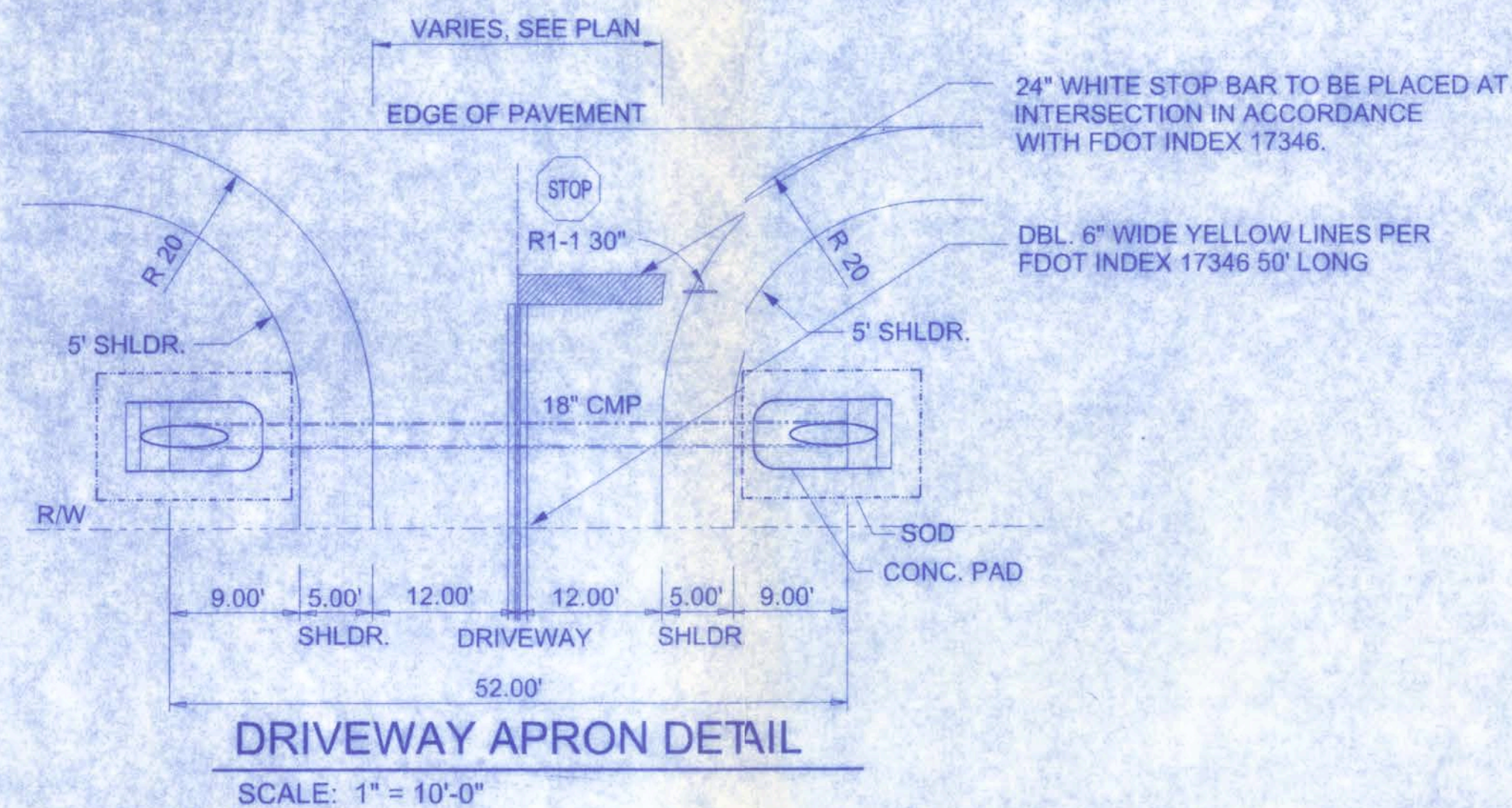
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386) 758-4209



Freeman
Design Group INC.

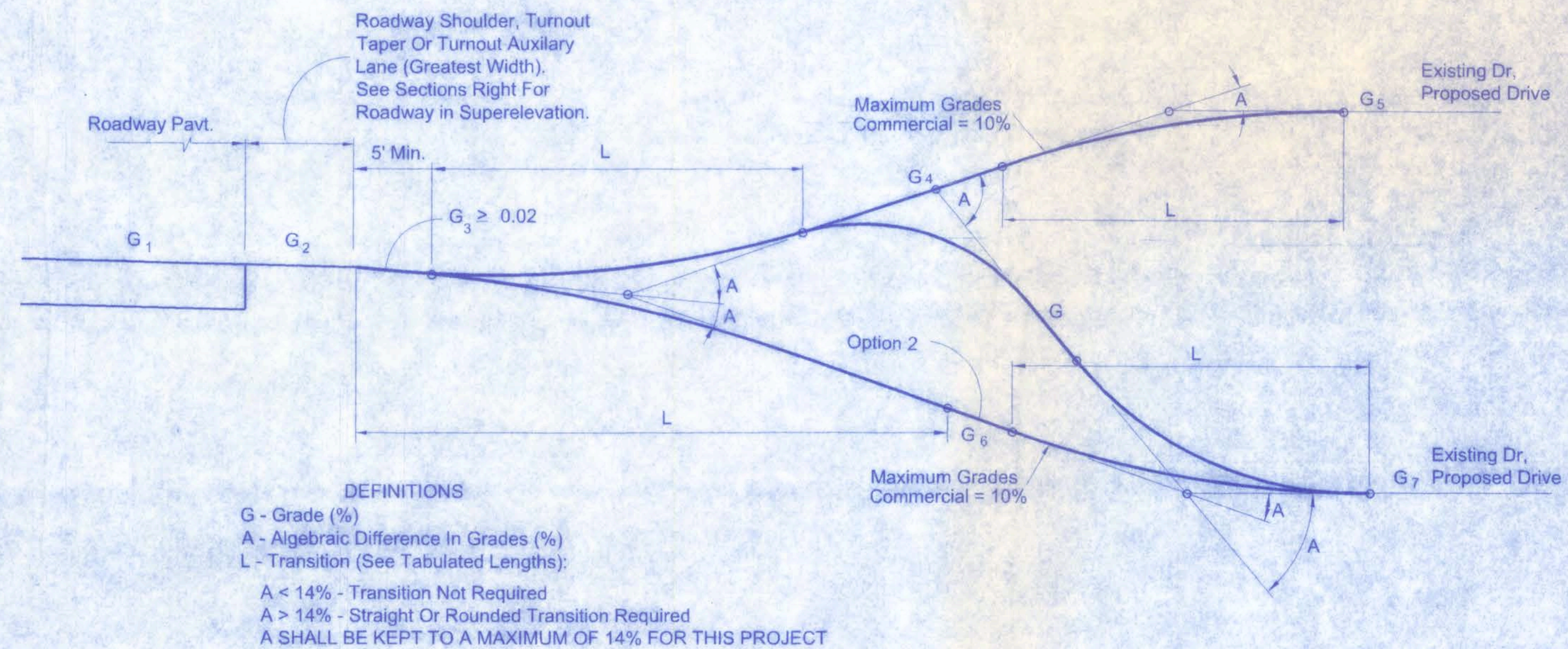
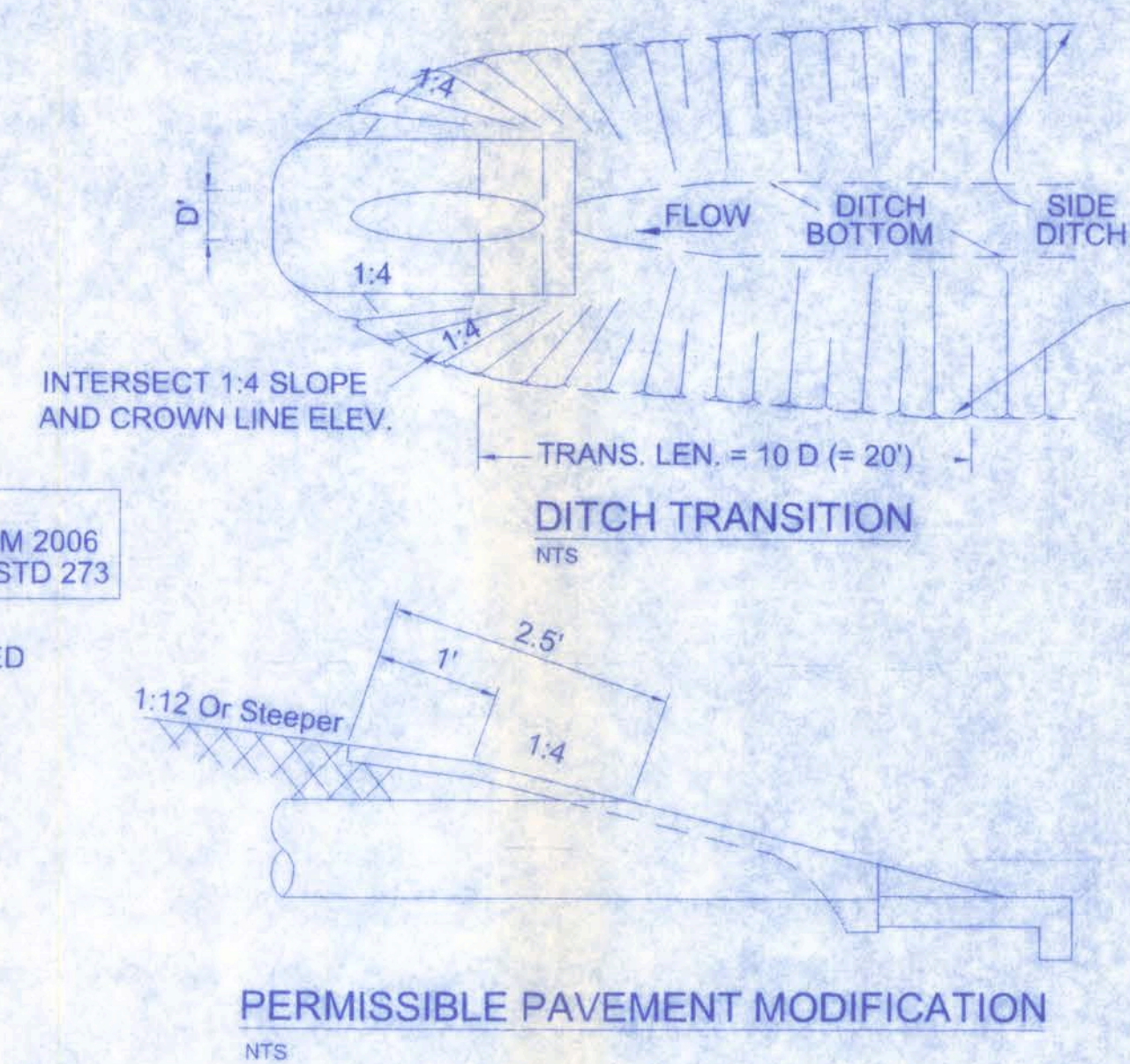
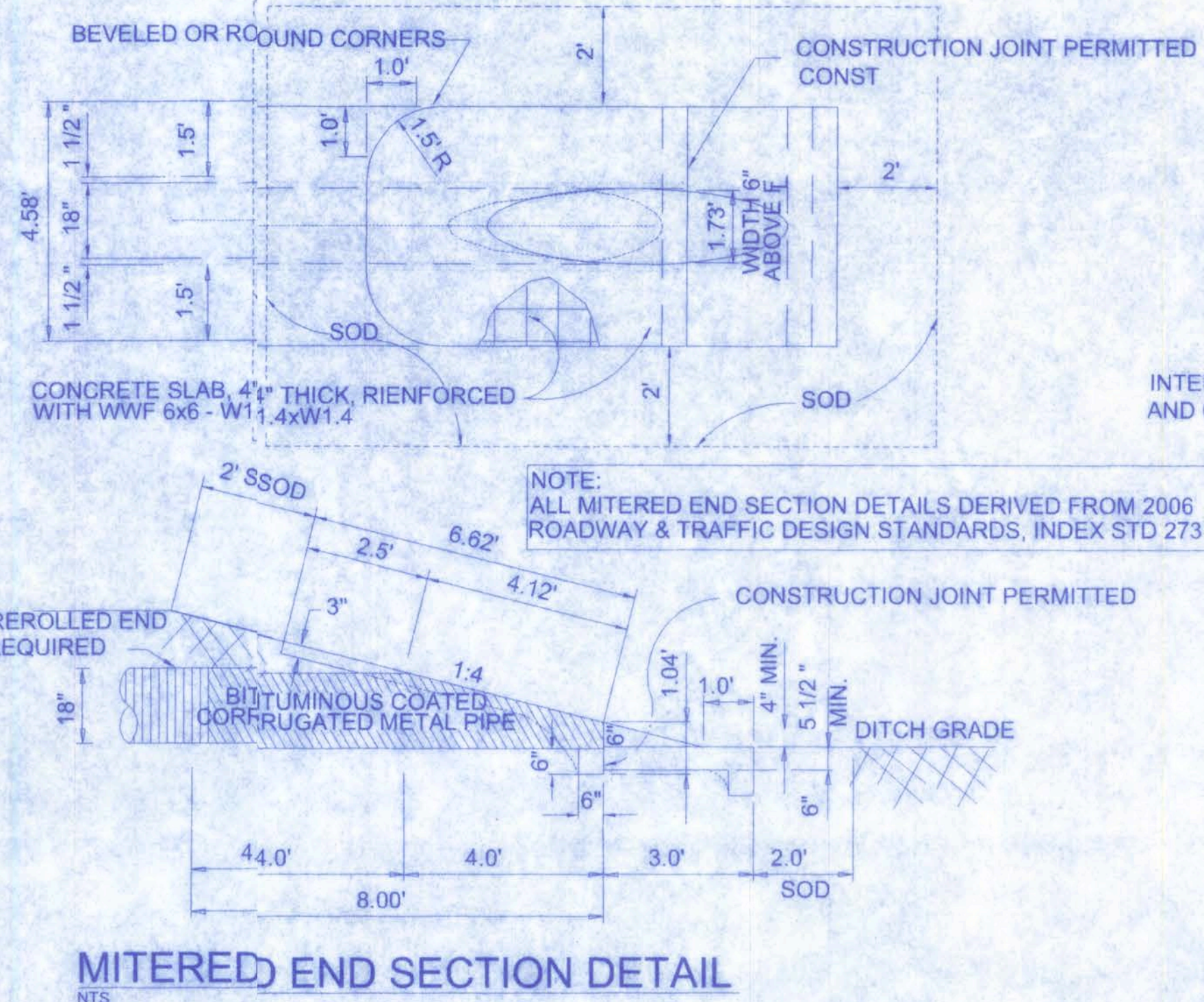
CERTIFICATE OF AUTHORIZATION # 00008701

DATE 5/20/09	DRAWN BY W.H.F.
REVISONS	
SHEET	SP- 3
OF	5
PROJECT NO.	
09.0007	



SIGNING AND MARKING GENERAL NOTES

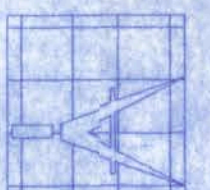
1. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO STANDARD INDEX NO. 17355.
2. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN IN THE PLANS AND TRAFFIC DESIGN STANDARDS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
4. ALL ROUTE MARKERS AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE ROUTE MARKER WHICH THEY SUPPLEMENT.
5. REFER TO STANDARD INDEX NO. 17352 FOR RPI PLACEMENT DETAILS.
6. UNLESS OTHERWISE NOTED IN PLANS, ALL EXITING SIGNS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN.
7. IT SHOULD BE NOTED THAT EXISTING SIGNAGE REFLECTS INVENTORY DATA COLLECTED DURING PLANS PREPARATION, AND IT IS POSSIBLE THAT ADDITIONAL SIGNS MAY BE PRESENT AT THE TIME OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE DISPOSITION OF SUCH SIGNS WITH THE PROJECT ENGINEER.
8. ALL STRIPING/PAVEMENT MARKINGS SHALL BE WITH CERTIFIED LEAD-FREE THERMOPLASTIC MATERIALS ONLY.
9. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. ANY ADJUSTMENTS, AS DIRECTED BY THE ENGINEER, SHALL BE IN ACCORDANCE WITH THE UTILITY ACCOMMODATION MANUAL.
10. FOR SIGN DETAILS SEE THE MANUAL ON STANDARD HIGHWAY SIGNS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.



LENGTHS (L) (FT.)								
A	CRESTS				SAGS			
	STRAIGHT		ROUNDED		STRAIGHT		ROUNDED	
	DESIRABLE	MINIMUM	DESIRABLE	MINIMUM	DESIRABLE	MINIMUM	DESIRABLE	MINIMUM
6-13%	3	0	5	0	3	0	5	0
14%	3	0	10	0	3	0	10	0

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4209



Freeman
Design Group Inc.

DATE: 5/20/08
DRAWN BY: W.H.F.

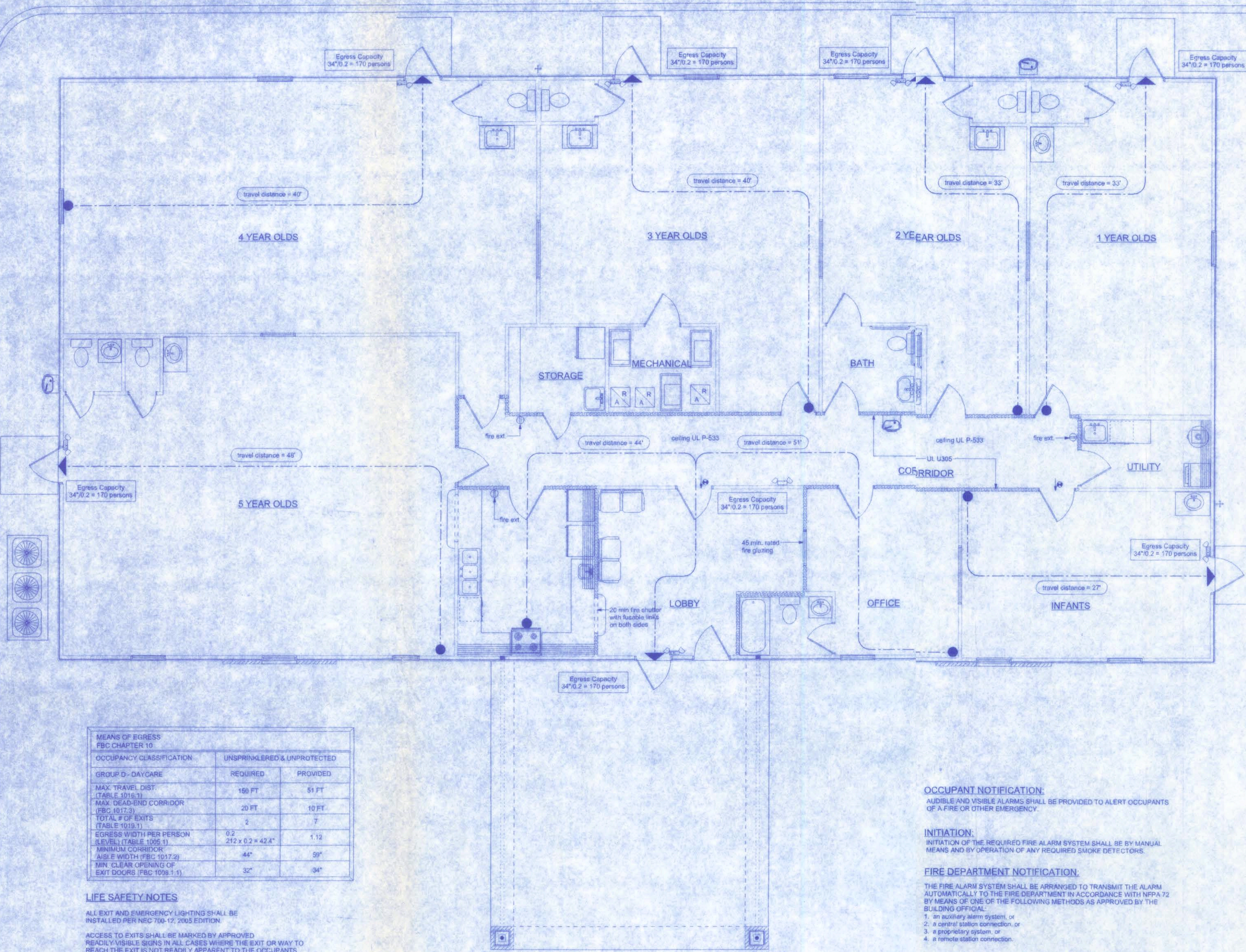
REVISIONS

SHEET SP-5

OF 5

PROJECT NO.

19.C007



MEANS OF EGRESS FBC CHAPTER 10		
OCCUPANCY CLASSIFICATION	UNSPRINKLERED & UNPROTECTED	
GROUP D - DAYCARE	REQUIRED	PROVIDED
MAX TRAVEL DIST (TABLE 1016.1)	150 FT	51 FT
MAX DEAD-END CORRIDOR (FBC 1017.3)	20 FT	10 FT
TOTAL # OF EXITS (TABLE 1019.1)	2	7
EGRESS WIDTH PER PERSON LEVEL (TABLE 1005.1)	0.2 212 x 0.2 = 42.4"	1.12
MINIMUM CORRIDOR AISLE WIDTH (FBC 1017.2)	44"	59"
MIN. CLEAR OPENING OF EXIT DOORS (FBC 1008.1.1)	32"	34"

LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2005 EDITION.

ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND IS NOT IN EXCESS OF THE MARKED RATING FOR INTERNALLY ILLUMINATED SIGNS.

ALL FIRE EXTINGUISHERS SHALL BE TYPE 10ABC AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 75 FT TO THE FIRE EXTINGUISHER.

NOTE:

ALL RECEPTACLES SHALL BE 60" A.F.F. EXCEPT IN KITCHEN AND OFFICE.

SMOKE DETECTORS SHALL BE LOCATED EVERY 10' IN HALLWAYS AND IN KITCHEN.

HEAT SENSORS SHALL BE LOCATED IN KITCHEN AND IN A/C CLOSETS.

A TYPE 20ABC FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 15 FEET OF RANGE IN KITCHEN.

FIRE BELLS SHALL BE LOCATED ON OPPOSITE ENDS OF ALL ROOMS AND SHALL BE ACCESSIBLE.

LIFE SAFETY PLAN

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

OCCUPANT NOTIFICATION:

AUDIBLE AND VISIBLE ALARMS SHALL BE PROVIDED TO ALERT OCCUPANTS OF A FIRE OR OTHER EMERGENCY.

INITIATION:

INITIATION OF THE REQUIRED FIRE ALARM SYSTEM SHALL BE BY MANUAL MEANS AND BY OPERATION OF ANY REQUIRED SMOKE DETECTORS.

FIRE DEPARTMENT NOTIFICATION:

THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT IN ACCORDANCE WITH NFPA 72 BY MEANS OF ONE OF THE FOLLOWING METHODS AS APPROVED BY THE BUILDING OFFICIAL.

1. an auxiliary alarm system, or
2. a central station system, or
3. a proprietary system, or
4. a remote station connection.

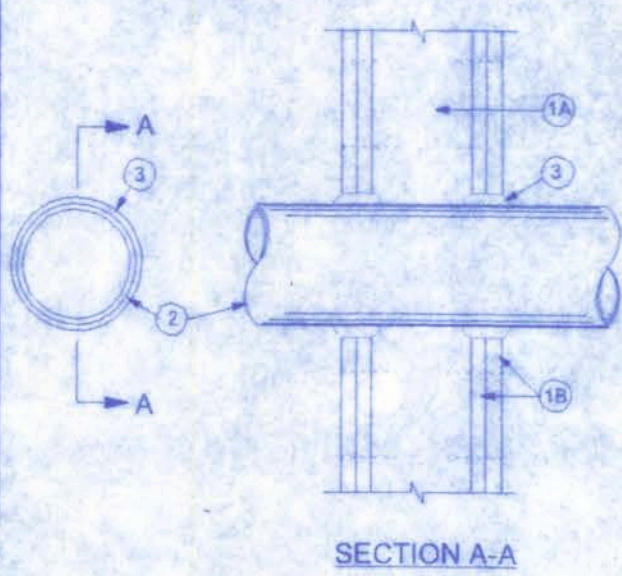
Exception:

Where none of the above means of notification is available, a plan for notification of the fire department, acceptable to the building official, shall be provided.

DETECTION:

A smoke detection system shall be installed in accordance with NFPA 72, with placement of detectors in each story in front of doors to the stairways and in front of corridors of all floors occupied by the day-care occupancy. Detectors shall also be installed in lounges, recreation areas and sleeping rooms in the day-care occupancy.

ELECTRICAL	COUNT	SYMBOL
emergency light with illuminated exit	7	
emergency lighting with battery backup	1	
exit	1	



System No. W-L-1001

Wall Assembly - The 1, 2, 3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in Section 709 FBC 2001 edition and shall include the following construction features:

A. Studs - wall framing may consist of either wood studs (max. 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom. 2x4 in. lumber and end studs and cross bracing. Steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24" o.c.

B. Gypsum Board - Nom. 1/2" or 5/8" thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diameter of opening is 28 in.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min. 0.1 in. (point contact) to max. 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types of sizes and metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom. 24 in. diam. (or smaller) Schedule 10 (or heavier) Steel Pipe.

B. Iron Pipe - Nom. 24 in. diam. (or smaller) service weight (or heavier) cast iron pipe, nom. 12 in. diam. (or smaller) or Class 50 (or heavier) ductile iron pipe.

C. Conduit - Nom. 6 in. diam. (or smaller) steel conduit or nom. 4 in. diam. (or smaller) steel electrical metallic tubing.

D. Copper Tubing - Nom. 6 in. diam. (or smaller) Type L (or heavier) copper pipe.

E. Copper Pipe - Nom. 6 in. diam. (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrant Product - Flexible Metal Piping the following types of steel flexible metal gas piping may be used:
1. Nom. 2 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC.

2. Nom. 1 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

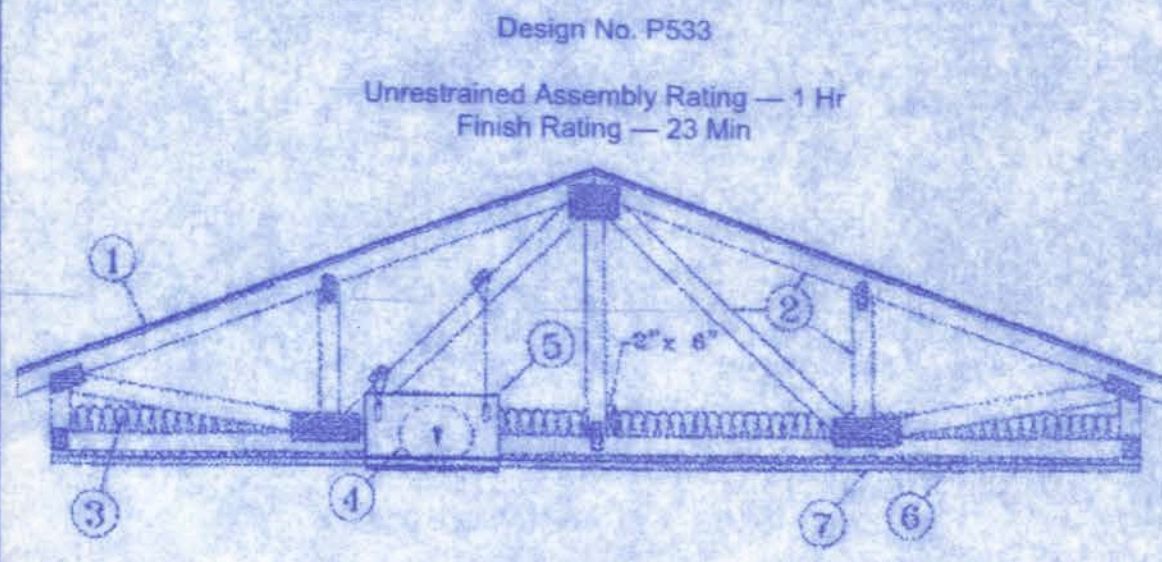
TITE FLEX CORP.

ABUNDY CO.

WARD MFG INC.

3. Fill, Void or Cavity Material - Caulk or Sealant - Min. 5/8" 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied with annulus, flush with both surfaces of wall. Min. 1/4 in. diam. bead of caulk applied to gypsum board/penetrant interface at point of contact location on both sides of wall. The hourly fire rating of the firestop is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly fire rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below.

Max. Pipe or Conduit Diam. in.	F Rating Hr.	T Rating Hr.
1	1 or 2	0+ 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0



1. Roofing System - Any UL Class A, B or C Roofing System (TFW2) acceptable for use over nom. 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Studs having equal or greater withdrawal and tensile resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. Trusses - Pinned or parallel chord wood trusses, spaced a max. of 24 in. OC, fabricated from nom. 2 by 4 lumber with lumber oriented vertically or horizontally. Truss members secured together with a 1/32 in. thick galv. steel plates. Plates have 6-16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch) forming a split both type plate. Each tooth has a crest point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The joints are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior wall, the min. truss depth shall be 5-1/4 in. with a min. roof slope of 3/12 and a min. twist in the plane of the truss of 21 sqft. Where the truss intersects with the interior face of the exterior wall, the min. truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly locked against the intersection of the bottom chords and the plywood sheathing.

3. Batts and Blankets - Optional - Glass fiber insulation fitted in the concealed space, draped over the resilient channels and gypsum wallboard ceiling membrane or fastened to underside of roofing system. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min. density of 0.5 pcf.

3A. Loose Fill Material - As an alternate to Item 3, any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min. density of 0.5 pcf.

4. Air Duct - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper - Maximum nominal area, 324 sq. in. Maximum square size, 18 in. by 18 in. Rectangular sizes not to exceed 324 sq. in. with a maximum width of 18 in. Maximum damper height is 14 in. installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 324 sq. in. per 100 sq. ft. of ceiling area.

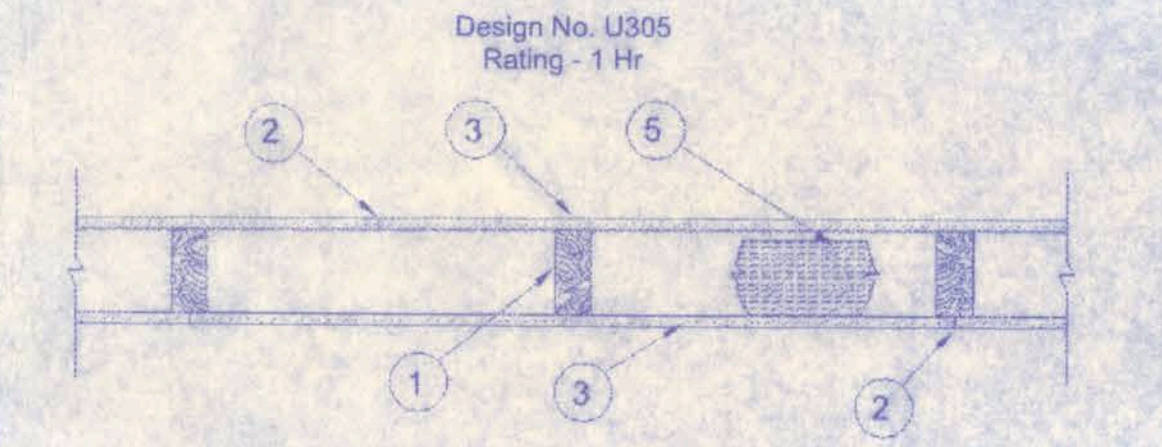
C&S AIR PRODUCTS - Model RD-521.

POTTERF - Model GFD-521.

6. Furring Channels - Resilient channels, min. 3/8 in. deep by min. 2 in. wide at the base and min. 1-1/4 in. wide at the face, formed from 16-20/15 in. OC. Channels secured to studs with 1-1/4 in. long Type 5 steel screws. Channels overlapped 4 in. at joints. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.

7. Gypsum Board - Nom. 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1-1/8 in. long Type S screws spaced 12 in. OC and located a min. of 1/2 in. from side joints and 3 in. from the end joints. Two resilient channels, two resilient channels, two resilient channels are used, extending a min. of 2 in. beyond both ends of the joint. When insulation, Item 3 or 3A, is draped over the resilient channels/gypsum wallboard ceiling membrane screws shall be installed at 9 in. OC. NATIONAL GYPSUM CO. - Type FSW-G, FSW-C, FSK-G, FSK-C.

8. Finishing System - (Not shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads, paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, non 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.



1. Wood Studs - Nom. 2 by 4 in. spaced 16" o.c. max, effectively firestopped.

2. Joints on Nail Heads - Exposed or covered with two tape and joint compound, except where required for specific edge configuration. For tapered, rounded edge gypsum board, joints covered with joint compound or fiber tape and joint compound. As an alternate, nom. 3/32 in. thick gypsum may be applied to the entire surface of classified veneer baseboard. Joints reinforced. Nail heads exposed or covered with joint compound.

3. Gypsum Board - 5/8" thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in o.c. 6d cement coated nails 1-7/8 in. long, 0.0115 in. shank diam and 1/4 in. diam heads. When used in widths other than 48 in. gypsum panels are to be installed horizontally.

When Item 6, steel framing members is used, gypsum panels attached to furring channels with 1" long Type 5 bugle head steel screws spaced 12" o.c.

4. Steel Corner Fasteners - (Optional) - For use at wall corners. Channel shaped, 2" long by 1" high on the back side with two 1/8" wide beads protruding into the 5/8" wide channel, fabricated from 24 gauge galv. steel. Fasteners applied only to the end or cut edge of the gypsum board, no greater than 2" from corner of gypsum board; max spacing 16" o.c. Nailing to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets - (Optional - required when steel framing members used) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Steel Framing Used, glass fiber or mineral wool insulation shall be placed to completely fill the stud cavities and shall be secured to the studs 24" o.c. with staples nails or screws.

6. Steel Framing Members (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:
a. Furring Channels - Formed of No. 25 MSG galv. steel spaced 24" o.c. perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and fast together with double strand of No. 18 SWG galv. steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 4" and secured together with two self tapping #6 framing screws, min 7/16" long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members - Used to attach furring channels to studs. Clips spaced 48" o.c. RSC-V clips secured to studs with No. 8 x 1-1/2" coarse drywall screw through the center groove. RSC-V clips secured to studs with No. 8 x 1-1/2" coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

7. Furring Channels - (Optional, Not Shown) - for use on one side of the wall. Resilient channels, 25 MSG galv. steel, spaced vertically 24" o.c. Flange portion screw attached to one side of studs with 1-1/4" long diamond shaped point, double lead Phillips head steel screws.

8. Caulking and Sealants - (not shown, optional) A bead of acoustical sealant applied around the perimeter for sound control.

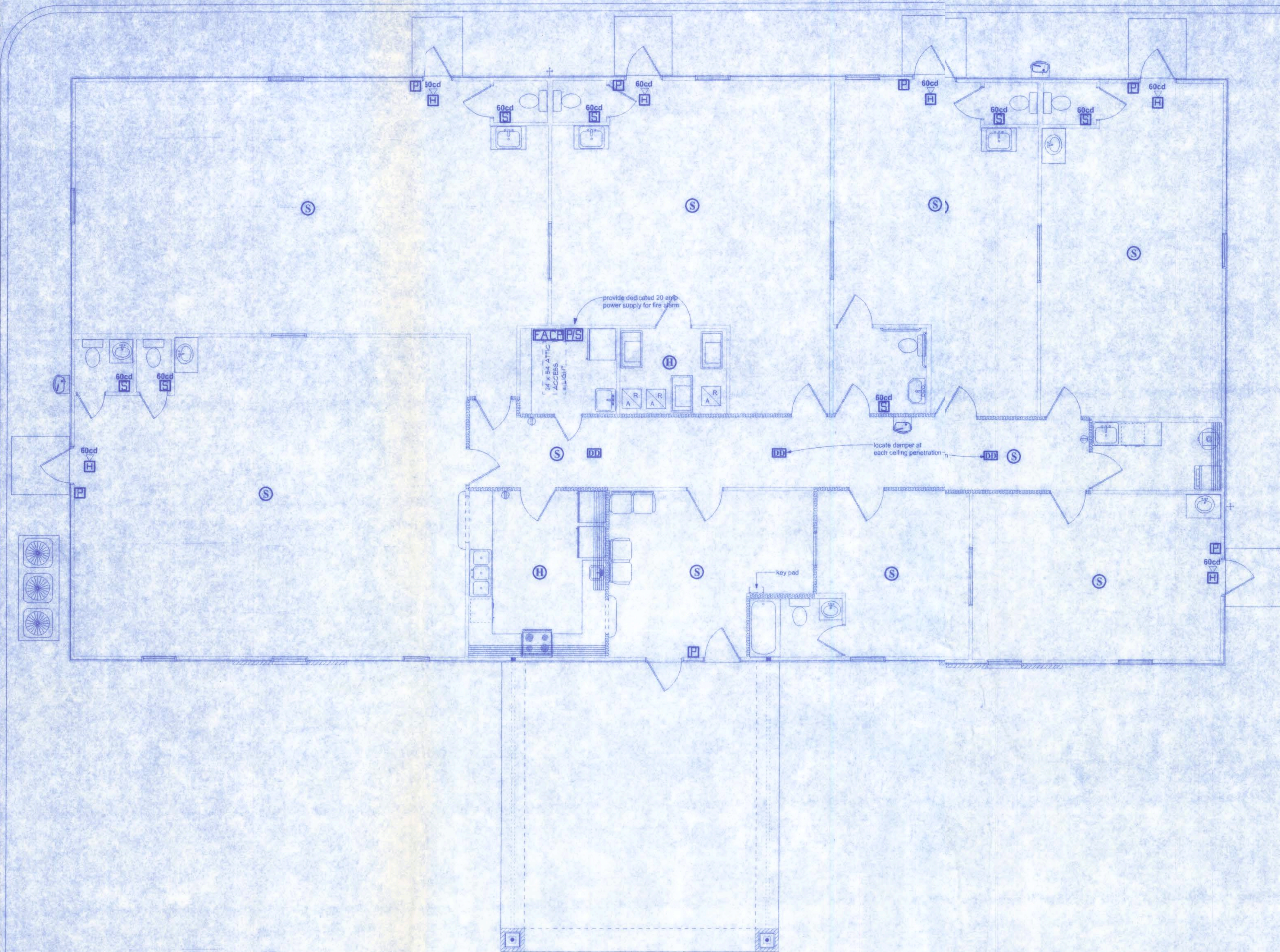


CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4208



DATE	DRAWN BY
6/3/09	W.H.F.
	APPROVED
	W.H.F.
REVISIONS	
SHEET LS-1	
OF 2	
PROJECT NO. 05C007	



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

ELECTRICAL	COUNT	SYMBOL
Damper Detector	3	DD
Fire Alarm Control Panel	3	FACP
Heat Detector	2	H
Horn-Strobe 60cd	6	60cd
20 Amp dedicated ckt	1	PS
Pull Station	7	P
Smoke Detector	10	S
Strobe 60cd	7	60cd

NOTE:
FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE.
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE.

NOTE:
FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.
2. DUCTS PENETRATING SHAFT WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.

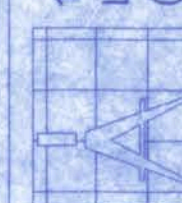
FIRE DEPARTMENT NOTIFICATION:
THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT IN ACCORDANCE WITH NFPA 72 BY MEANS OF ONE OF THE FOLLOWING METHODS AS APPROVED BY THE BUILDING OFFICIAL:
1. an auxiliary alarm system, or
2. a central station connection, or
3. a proprietary system, or
4. a remote station connection.

Exception:
Where none to the above means of notification is available, a plan for notification of the fire department, acceptable to the building official, shall be provided.

NOTE:
The HVAC contractor shall provide relay switches from each smoke damper to connect to the alarm system.

MOUNTING HEIGHT:
key pad - 48"
smoke detector - ceiling
horn strobe - 8'1"
pull station - 48"
strobe - 8'1"

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386)758-4209



Freeman
Design Group INC.

DATE
6/3/09

DRAWN BY
W.H.F.

APPROVED
W.H.F.

REVISIONS

SHEET LS2

OF 2

PROJECT NO.
08.000

CASTLE HILL ACADEMY

CERTIFICATE OF AUTHORIZATION # 00000701

W.H.F.
W.H.F.
P.E. # 35001

GENERAL NOTES

DESIGN CRITERIA

- D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FOLLOWING CODES:
2007 FLORIDA BUILDING CODE, BUILDING
2007 FLORIDA BUILDING CODE, FUEL GAS
2007 FLORIDA BUILDING CODE, MECHANICAL
2007 FLORIDA BUILDING CODE, PLUMBING
2006 FLORIDA FIRE PREVENTION CODE
2005 NATIONAL ELECTRIC CODE.
- D2 DESIGN LOAD VALUES:
ROOF LIVE LOADS (top chord) 20 PSF
ROOF LIVE LOADS (bottom chord) 20 PSF
ROOF DEAD LOADS 10 PSF
CORRIDOR LIVE LOADS 100 PSF
CLASSROOM LIVE LOADS 80 PSF
FLOOR DEAD LOADS 20 PSF
ASSUMED ALLOWABLE SOIL BEARING CAPACITY 1,500 PSF
- D3 THE STRUCTURAL PLANS AND WIND SPEED HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE 2007 EDITION.

GENERAL

- G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION & FOR ALL JOBSITE SAFETY.
- G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE REDUCED IN STRENGTH.
- G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER ON ANY DISCREPANCIES.
- G5 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.
- G6 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.
- G7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE A/E FOR RESOLUTION.

FOUNDATIONS

- F1 A GEOTECHNICAL REPORT FOR THIS PROJECT WAS NOT PROVIDED BY THE OWNER. THESE PLANS ARE BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,500 PSF. AT THE OWNER'S REQUEST, THE CONTRACTOR SHALL ENGAGE A QUALIFIED AND CERTIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY. A COPY OF THE REPORT SHALL BE PROVIDED TO THE A/E. IF THE DETERMINED ALLOWABLE BEARING CAPACITY IS LESS THAN THE ASSUMED VALUE, MODIFICATIONS TO THE FOUNDATIONS MAY BE REQUIRED.
- F2 THE GEOTECHNICAL ENGINEER SHALL MAKE A FIELD INVESTIGATION TO DETERMINE IF ANY SOIL CONDITIONS ARE PRESENT THAT MAY ADVERSELY AFFECT THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL SUCH MATERIAL AND REPLACE IT WITH APPROVED FILL.
- F3 SUBGRADE UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D57). SUBMIT DENSITY TESTS TO THE A/E.

SLABS ON GRADE

- S1 PROVIDE 6 MIL POLYETHYLENE SHEETING UNDER ALL SLABS ON GRADE.
- S2 PROVIDE CONTROL JOINTS (1/4" WIDE BY 3/8" DEEP) [MAY OR MAY NOT BE INDICATED ON PLAN]. FILL JOINTS WITH POURED RUBBER. IF JOINTS ARE SAWCUT, SAWCUTTING MUST BE DONE THE SAME DAY THE CONCRETE IS PLACED.
- S3 PROVIDE 1/2" EXPANSION JOINTS AT ALL LOCATIONS WHERE SLABS ABUT STRUCTURES (WALLS, COLUMNS, ETC.).

CONCRETE AND REINFORCING

- C1 AT THE OWNER'S REQUEST, THE GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.
- C2 CONCRETE WORK & MIX DESIGN SHALL CONFORM TO ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIXING SHALL BE IN ACCORDANCE WITH ASTM C94.
- C3 MINIMUM 28-DAY COMPRESSIVE STRENGTH:
FOOTINGS AND TIE BEAMS 2,500 PSI
COLUMNS AND SLABS 2,500 PSI
- C4 SPLICES OF REINFORCING (EXCEPT AS SHOWN ON PLANS):
#4 BARS 20 INCHES
#5 BARS 27 INCHES
WELDED WIRE MESH 6"
- C5 AT ALL CORNERS OF THE BEAMS AND WALL FOOTINGS, PROVIDE CORNER BARS (30 INCH MINIMUM LEGS) TO MATCH HORIZONTAL BARS.
- C6 REINFORCING BARS SHALL CONFORM TO ASTM A615-96a GRADE 60. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. LAP WELDED WIRE MESH ON MESH + 2' WHERE SPLICED.
- C7 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

LOCATION	MIN. COVER
BOTTOM OF FOOTINGS	3"
SIDES OF FOOTINGS	3"
COLUMNS	1 1/2"
TIE BEAMS	1 1/2"
SLABS	AS NOTED

PRE-FABRICATED WOOD TRUSSES

- WT1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.
- WT2 WOOD TRUSSES SHALL BE DESIGNED, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. TRUSSES SHALL BE FABRICATED IN CONFORMANCE WITH THE "QUALITY CONTROL MANUAL" BY THE TRUSS PLATE INSTITUTE (TPI).
- WT3 HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "HANDLING AND ERECTING WOOD TRUSSES" (HET80) AND "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" (BWT-76) BY THE TRUSS PLATE INSTITUTE (TPI).
- WT4 PERMANENT BRACING SHALL BE INDICATED IN THE TRUSS LAYOUT DRAWINGS AND SHALL BE SUPPLIED AND INSTALLED BY THE FRAMING CONTRACTOR.
- WT5 TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
DEAD LOAD 10 PSF
LIVE LOAD (top chord) 20 PSF
LIVE LOAD (bottom chord) 20 PSF
WIND 110 MPH
- WT6 PRE-FABRICATED WOOD TRUSSES SHALL BE FABRICATED FROM SOUTHERN PINE (SPB) KILN DRIED #2 GRADE OR BETTER FOR CHORD AND #3 GRADE OR BETTER FOR WEBS.
- WT7 TRUSS BEARING SHALL BE 4" NOMINAL UNLESS NOTED OTHERWISE. BEARING LOCATIONS MUST BE MARKED ON TRUSS BY FABRICATOR TO INSURE PROPER INSTALLATION.
- WT8 SHOP DRAWINGS SHALL BE SUBMITTED WHICH INDICATE DESIGN LOADS, DURATION FACTOR, TRUSS LAYOUT, TRUSS CONFIGURATION AND TRUSS TO TRUSS CONNECTION. SHOP DRAWINGS SHALL SHOW PIECE MARKS, MEMBER SIZE AND GRADE AND CONNECTION DETAILS.
- WT9 NO WANE, KNOTS, SKIPS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARFED AREA OF WEB MEMBERS. PLATES SHALL BE CENTERED WITH ONE REQUIRED EACH SIDE OF TRUSS.
- WT10 DESIGN OF METAL CONNECTED WOOD ROOF TRUSSES TO COMPLY WITH STANDARD BLDG. CODE NFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADED LUMBER AND ITS FASTENINGS", AND THE TRUSS PLATE INSTITUTE'S "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES".
- WT11 WOOD BLOCKING AT TRUSS BEARING SHALL BE LAP SPLICED 4'-0" MIN. AND NAILED WITH (20) 10d NAILS AT SPLICE, 10d NAILS @ 16" O.C. ELSEWHERE.

MASONRY

- M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-05/ASCE 5-05) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-05/ASCE 6-05).
- M2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90 (fm = 1500 PSI) (1900 PSI ON THE NET AREA).
- M3 MORTAR SHALL COMPLY WITH ASTM C270 TYPE M OR S (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI) RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH.
- M4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.
- M5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.
- M6 THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2" x 3". MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.
- M7 REINFORCE WALLS WITH LADDER TYPE (ASTM A-82, #9 GAGE WIRE) REINFORCEMENT EQUAL TO DURO-WALL IN BED JOINTS @ 16" O.C. MEASURED VERTICALLY. PLACE PER MFR. INSTR. LAP ALL HORIZONTAL JOINT REINFORCING 8" MIN.
- M8 CORES OR BLOCK MASONRY SHALL BE FILLED WITH GROUT AT CORNERS, EACH SIDE OF OPENINGS, AND @ 48" O.C. WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. GROUT SLUMP SHALL BE 8" TO 11" FOR MASONRY FILLED CELLS.
- M9 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED EIGHT (8) FEET IN HEIGHT, AND SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING.
- M10 PROVIDE KNOCK-OUT CMU AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK OUT AT BASE OF LIFT WILL NOT BE REQUIRED).
- M11 VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 6 FT.
- M12 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHALL BE STOPPED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
- M13 SEE FOUNDATION PLANS FOR ALL VERT. REINFORCING. TYP. VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M14 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- M15 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M16 PROVIDE FILLED PRECAST U-LINTELS W/ (1) #5 CONT. AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 lb/LF FOR SPAN INDICATED. SEE PLANS FOR LINTEL REQUIREMENTS AT DOOR OPENINGS.
- M17 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE DO NOT TOOTH. CLEAN EXPOSED SURFACES OF. SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MASONRY UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M18 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE WITH HORIZ. JT. REINF. PLACED IN (2) HORIZ. JTS. APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M19 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL REINFORCEMENT TO WITHIN 2" OF TOP OF TIE BEAMS UNLESS OTHERWISE NOTED.

NOTE:
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2007 EDITION, AND IN ACCORDANCE WITH ASCE-7.

BASIC WIND SPEED		110 MPH
IMPORTANCE FACTOR		1.0
BUILDING CATEGORY		2
EXPOSURE		B
INTERNAL PRESSURE COEFFICIENT		+/- 0.18
COMPONENT AND CLADDING PRESSURE	WALLS	+21.8/-29.1 PSF
	ROOF	+12.5/-29.1 PSF
	OVERHANGS	-71.6 PSF
TYPE OF STRUCTURE		ENCLOSED

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWMA 101/IS2 2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

BUILDING USE, CLASSIFICATION & OCCUPANCY AS PER TABLES 503 & 1004.1.1, FLORIDA BUILDING CODE, 2007 ED.	
BUILDING GROUP OCCUPANCY	GROUP D
TABLE 503 TYPE OF CONSTRUCTION	TYPE V-B
TABLE 503 AREA/HEIGHT LIMITATIONS	9.5 KSF/1 STORY
OCCUPANCY	
LOAD CAPACITY: DAY-CARE: 20 SF/PERSON NET	4,229 SF/ 20 = 212 PERSONS
	212 OCCUPANTS

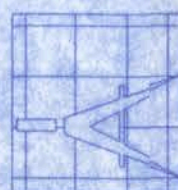
MEANS OF EGRESS FBC CHAPTER 10		
OCCUPANCY CLASSIFICATION	UNSPRINKLERED & UNPROTECTED	
GROUP D - DAYCARE	REQUIRED	PROVIDED
MAX. TRAVEL DIST. (TABLE 1016.1)	150 FT	51 FT
MAX. DEAD-END CORRIDOR (FBC 1017.3)	20 FT	10 FT
TOTAL # OF EXITS (TABLE 1019.1)	2	7
EGRESS WIDTH PER PERSON (LEVEL) (TABLE 1005.1)	0.2 212 x 0.2 = 42.4"	1.12
MINIMUM CORRIDOR AISLE WIDTH (FBC 1017.2)	44"	59"
MIN. CLEAR OPENING OF EXIT DOORS (FBC 1008.1.1)	32"	34"

MINIMUM NUMBER OF PLUMBING FACILITIES: TABLES 403.1 FLORIDA PLUMBING CODE, 2007 ED.					
212 OCCUPANTS = 106 MEN & 106 WOMEN					
OCCUPANCY	WATER CLOSETS		LAVS	DRINKING FOUNTAIN	SERVICE SINKS
E/D	M	F	M	F	
	1 per 50 = 3	1 per 50 = 3	1 per 50 = 5	1 per 100 = 3	1 service sink
PROVIDED	4	4	8	3	1

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 558-4200

CERTIFICATE OF AUTHORIZATION # 0008070



Freeman
Design Group

DATE
6/3/09

DRAWN BY
W.H.F.

APPROVED
W.H.F.

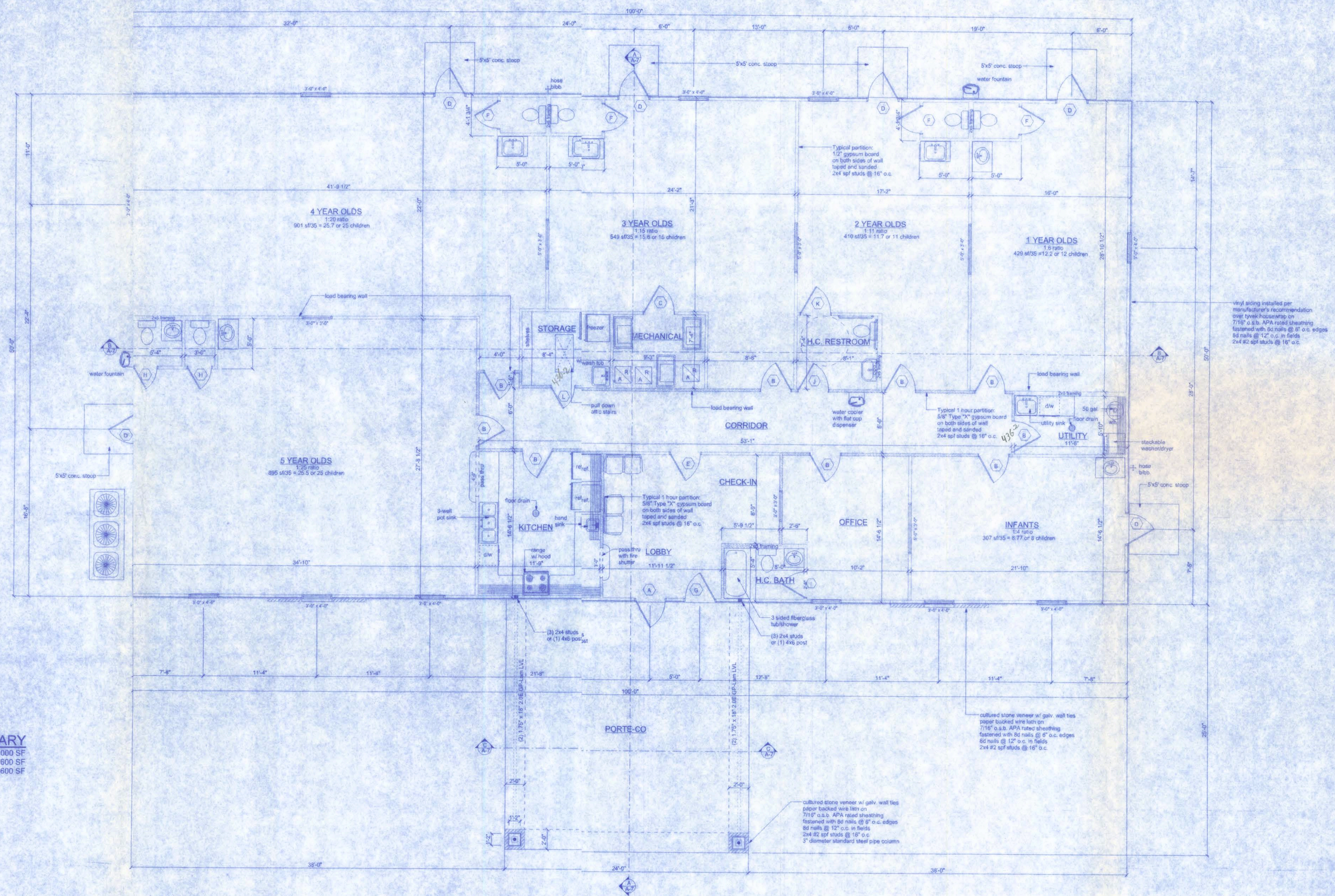
REVISIONS

SHEET
A-1

OF
11

PROJECT NO.
09-C07

AREA SUMMARY	
MAIN FLOOR	5,000 SF
PORTE-CO	600 SF
TOTAL	5,600 SF



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

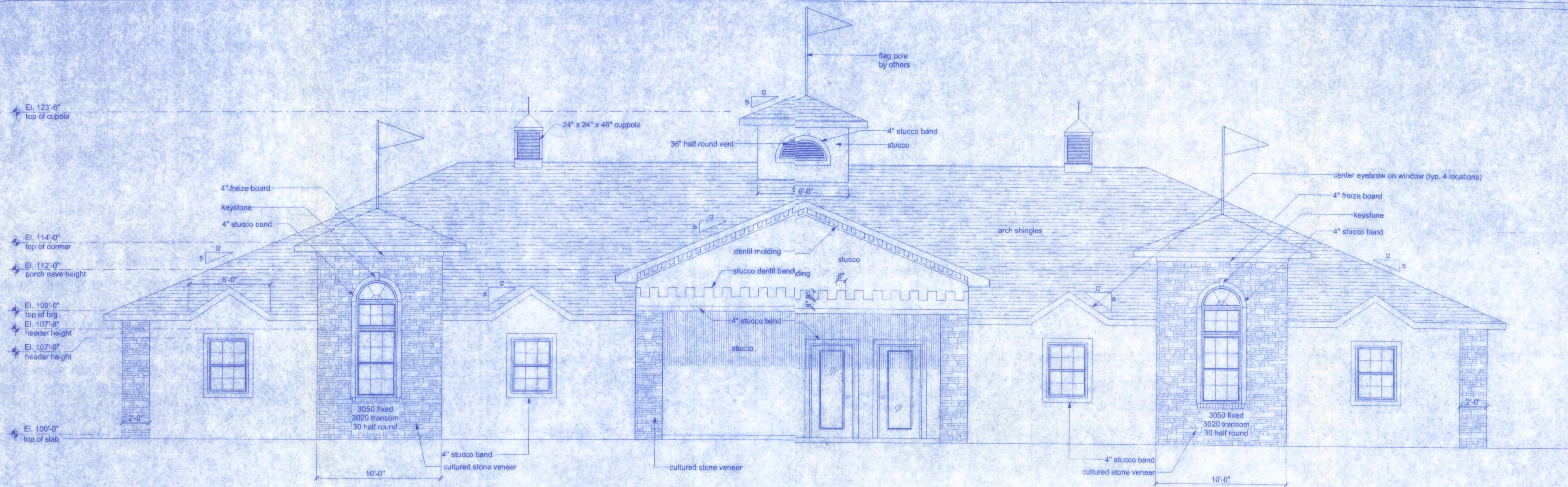
CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(813) 558-4203

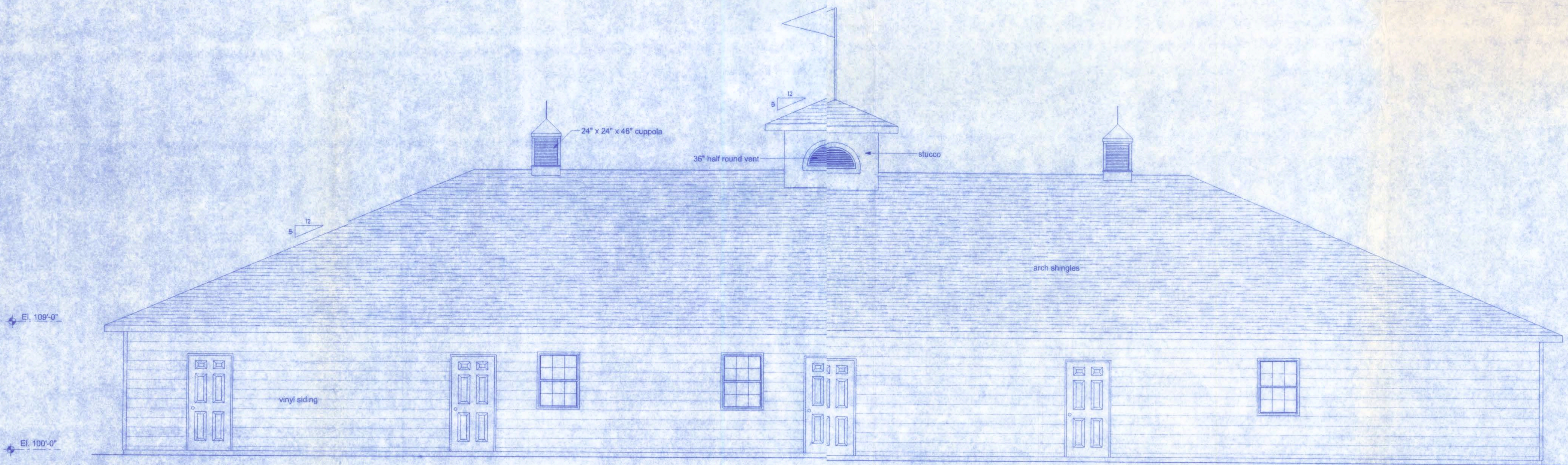


CERTIFICATE OF AUTHORIZATION # 00000701

DATE 6/3/09	DRAWN BY W.H.F.
	APPROVED W.H.F.
REVISIONS	
SHEET A-2	OF 11
PROJECT NO. 092007	



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



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

W. H. H. H.
6/1/09
P.E. # 50004

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209

Freeman
Design Group, Inc.

CERTIFICATE OF AUTHORIZATION # 00008701

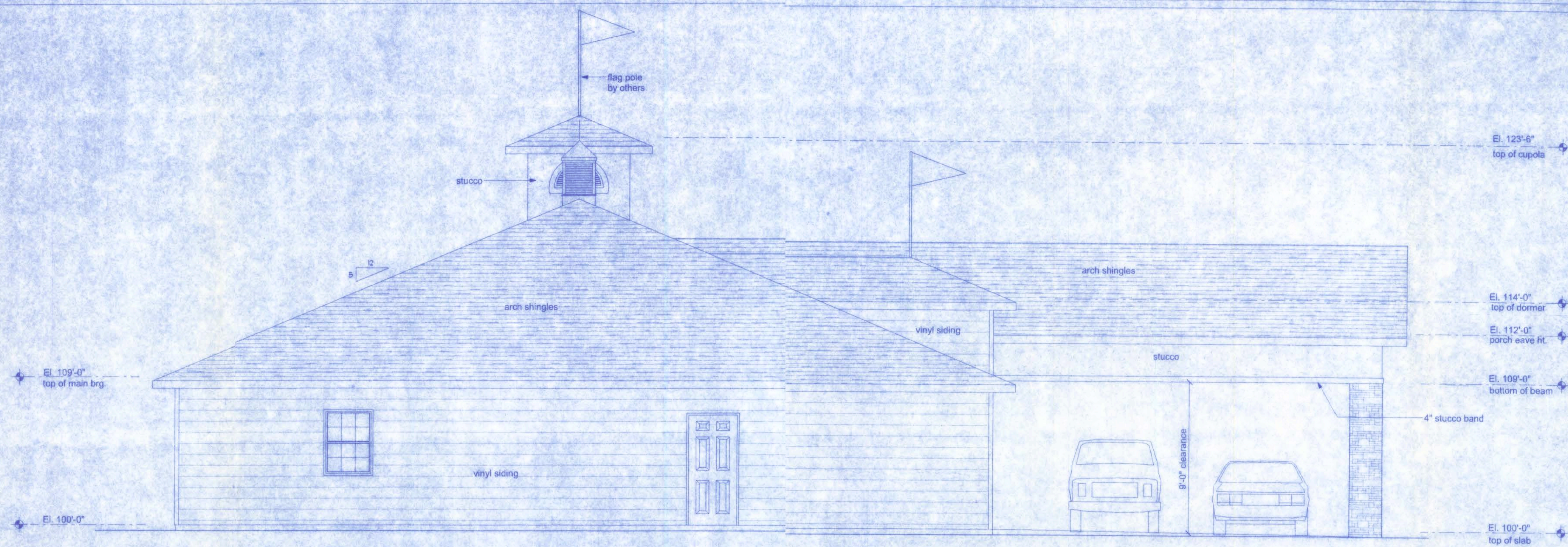
DATE: 6/3/09
DRAWN BY: M.H.F.
APPROVED: M.H.F.

REVISION:

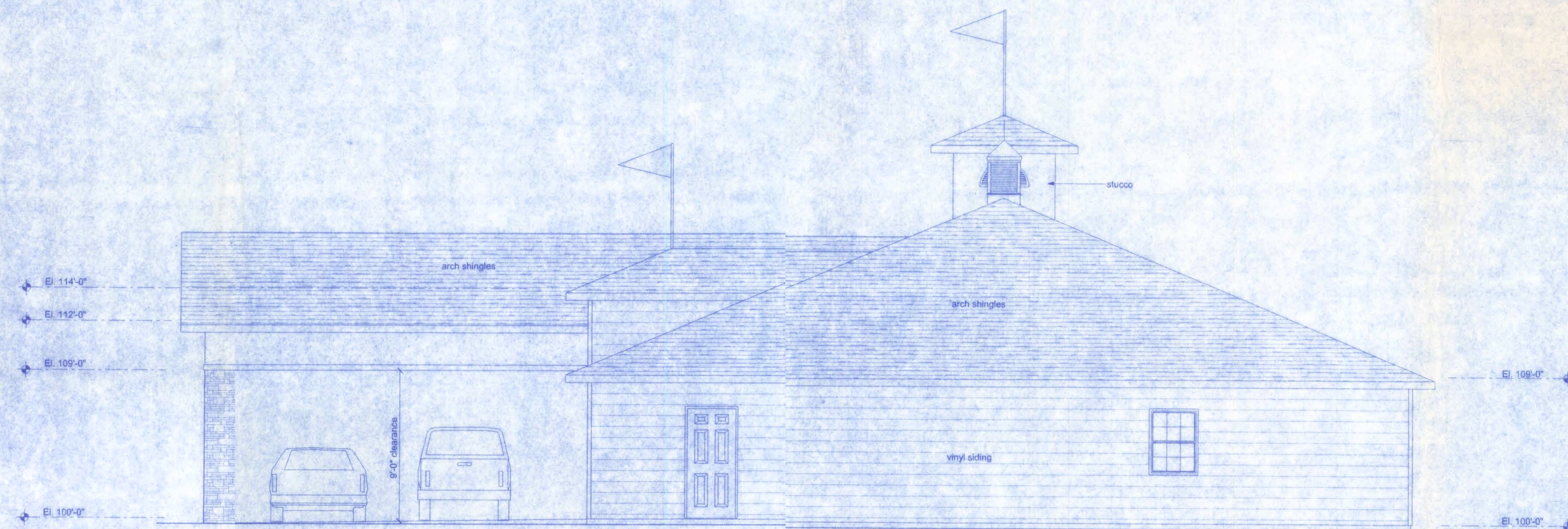
SHEET: A3

OF: 11

PROJECT NO.: 08.C007



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



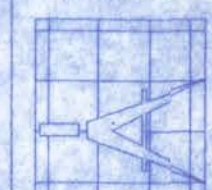
RIGHT ELEVATION
SCALE: 1/4" = 1'-0"

Castle Hill Academy
6/1/09
P.E. 43322

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-1200

CERTIFICATE OF AUTHORIZATION # 00008701



Freeman
Design Group inc

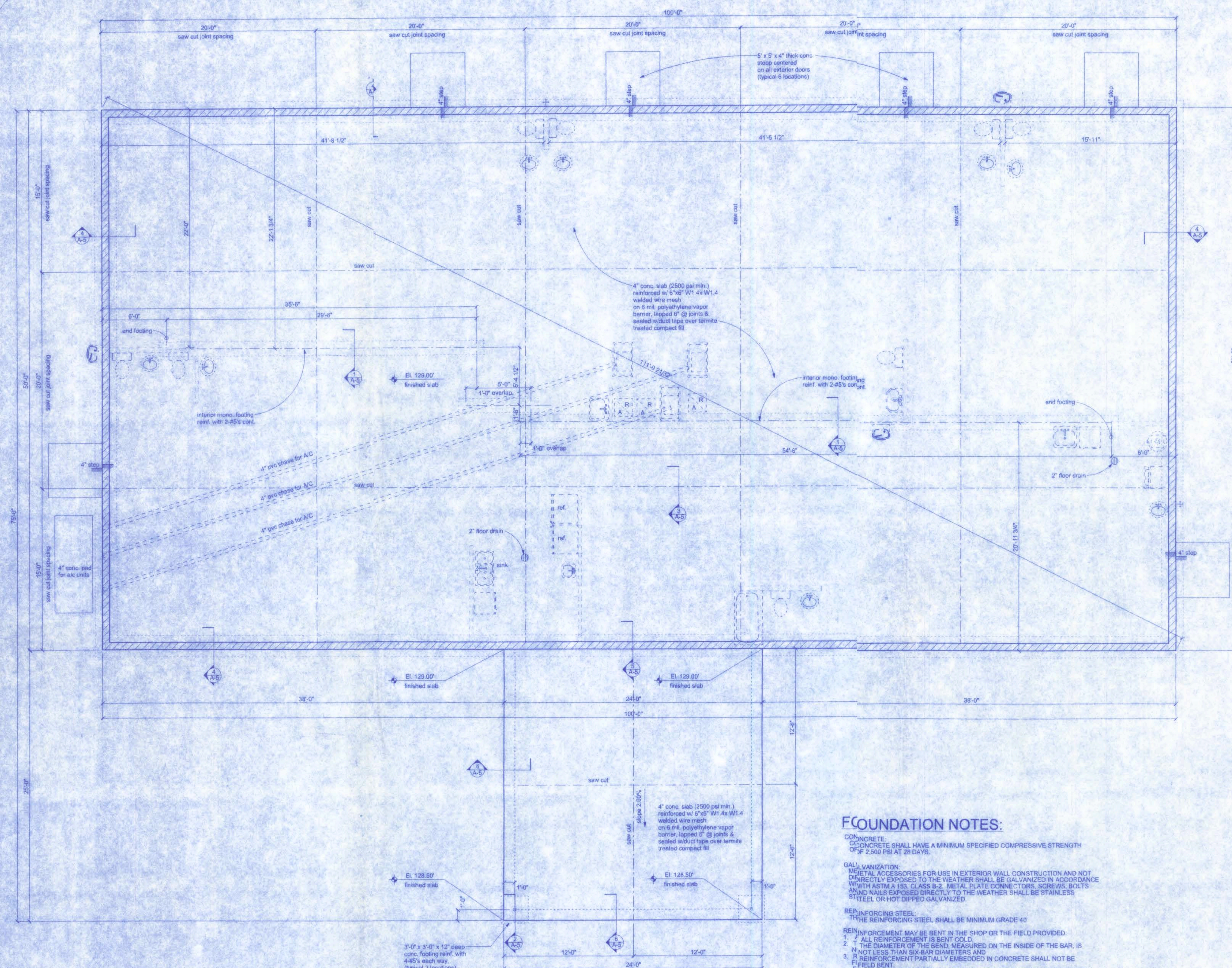
DATE: 6/3/09
DRAWN BY: W.H.F.
APPROVED: W.H.F.

REVISIONS

SHEET: A-4

OF: 11

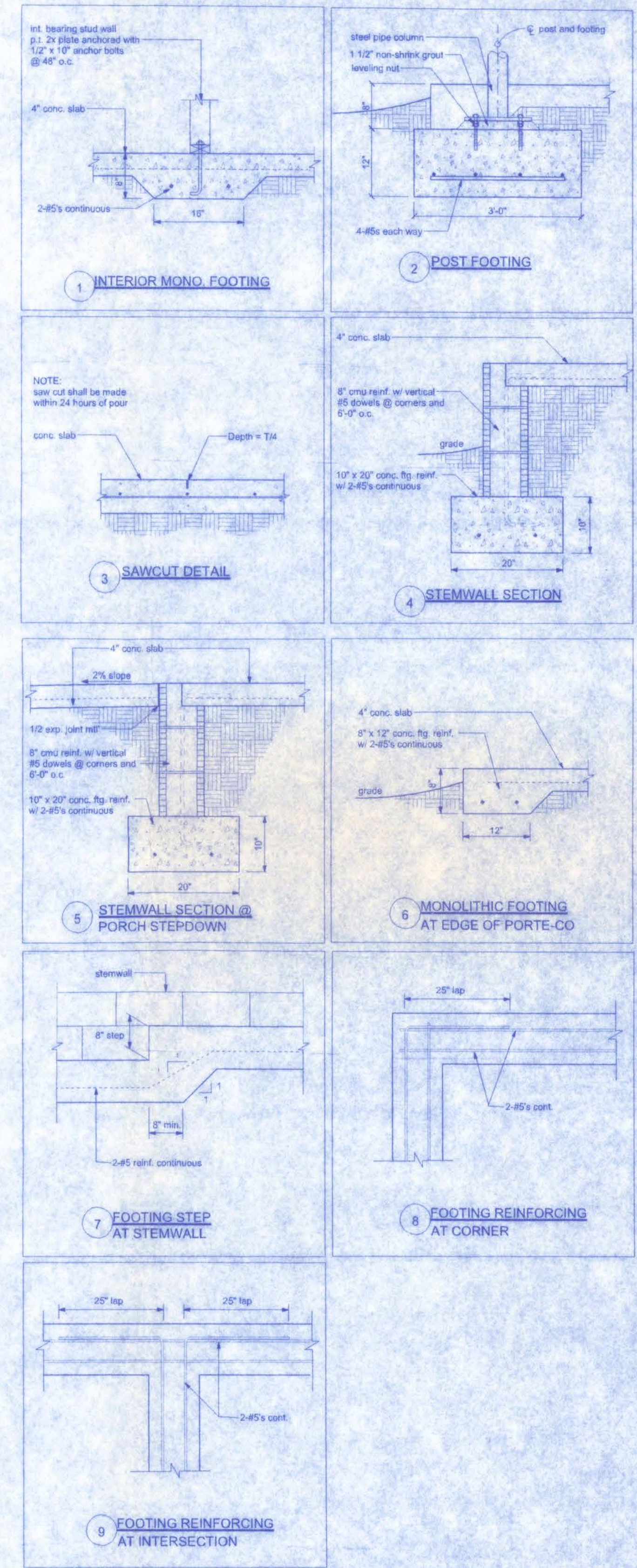
PROJECT NO.: 09.C07



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

FOUNDATION NOTES:

- CONCRETE:**
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- GALVANIZATION:**
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
- REINFORCING STEEL:**
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.
- REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:**
1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR IS NOT LESS THAN SIX BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH VERTICAL CELL BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.
- COVER OVER REINFORCING STEEL:**
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
1. 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER INCLUDING GROUT OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER AND 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.
- BEARING CAPACITY:**
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 1,500 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.



CASTLE HILL ACADEMY

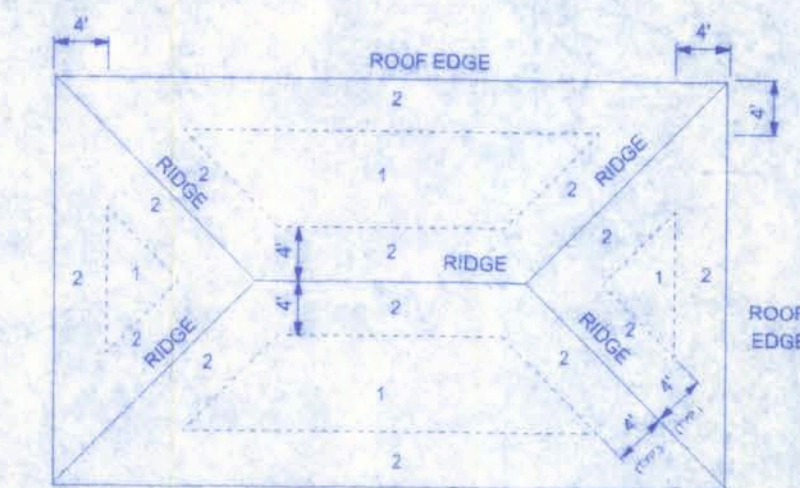
128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 788-1200



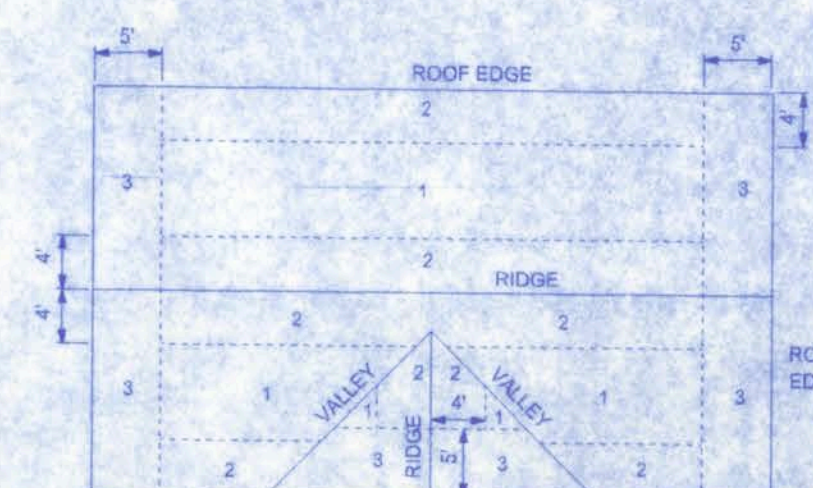
DATE 6/3/09	DRAWN BY W.H.F.
	APPROVED W.H.F.
REVISIONS	
SHEET A-5	PROJECT NO. 09.007

CERTIFICATE OF AUTHORIZATION # 00008701

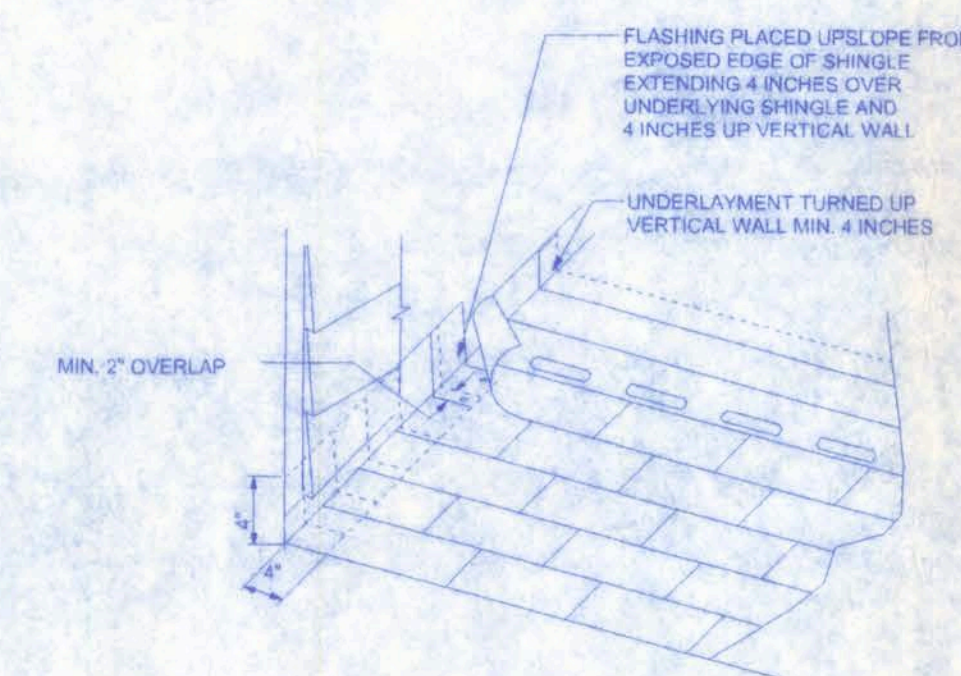
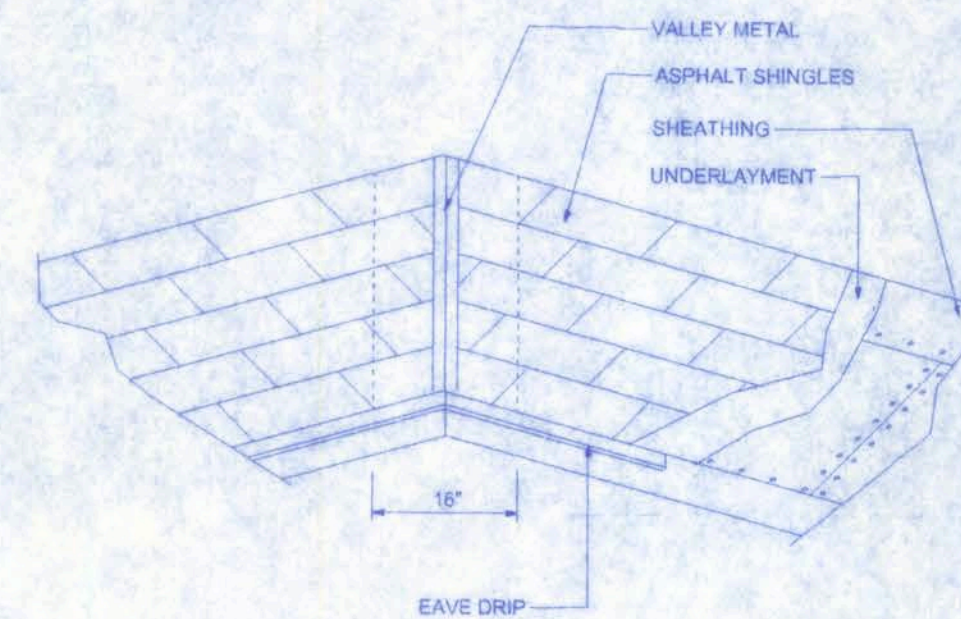
ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/2" O.S.B.	34 COMMON OR 34 HOT DIPPED GALVANIZED BOX NAIL	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 9 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 9 in. o.c. FIELD



ROOF SHEATHING NAILING ZONES (HIP ROOF)



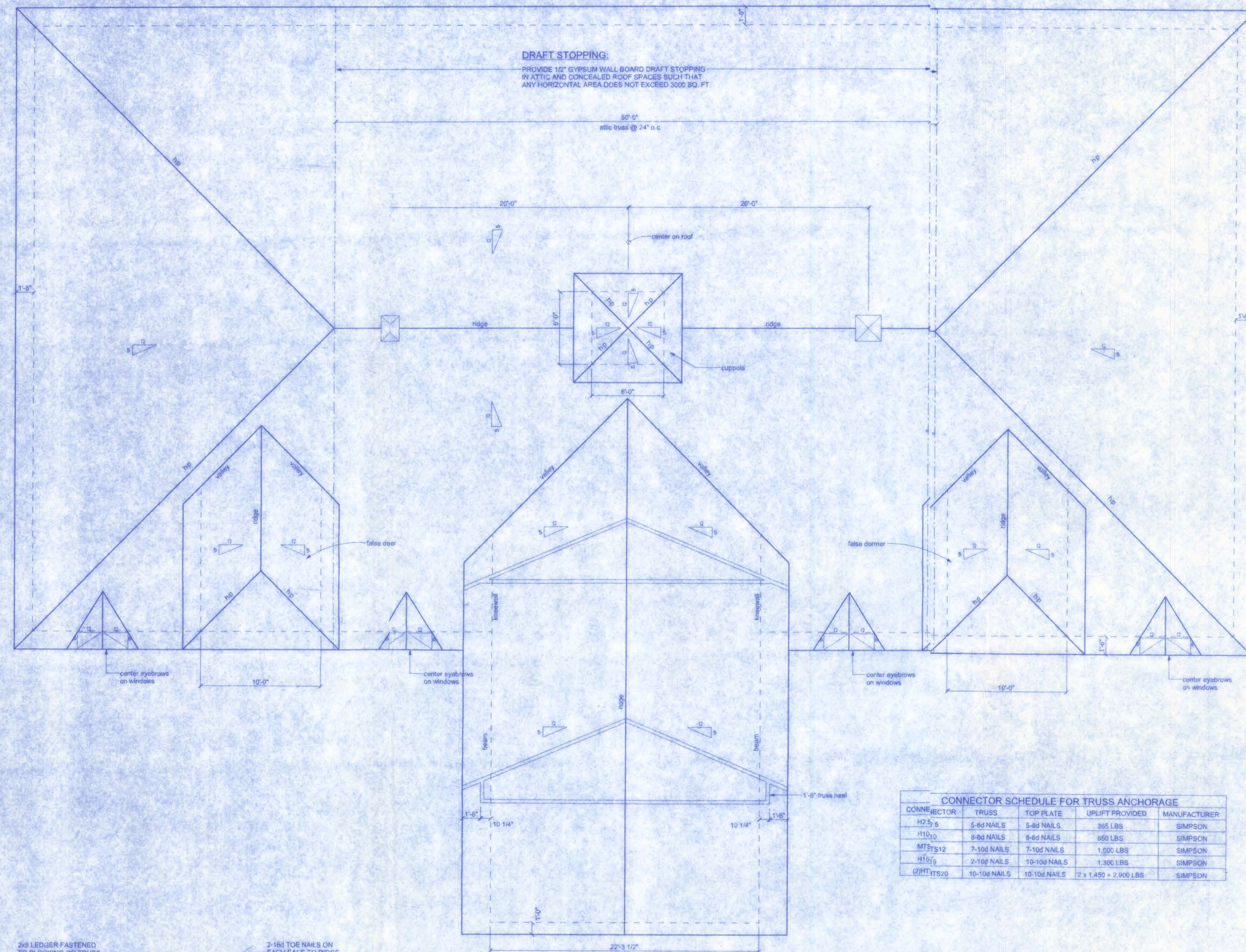
ROOF SHEATHING NAILING ZONES (GABLE ROOF)



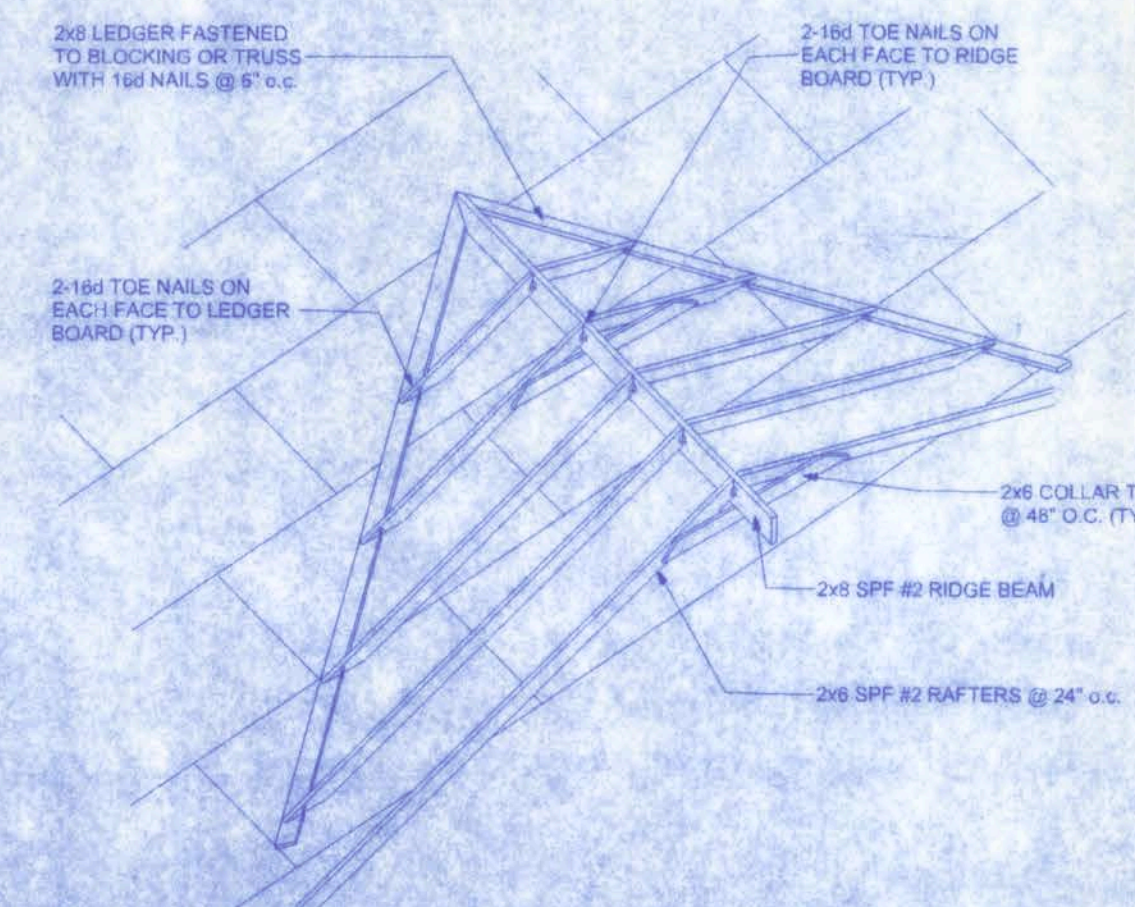
NOTE:
see detail '1' for eave connection
sheet A-7 for details

- DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.
- SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.
- UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 225, TYPE 1, OR ASTM D 4889, TYPE 1.
- SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF-ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1070.
- ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 1/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.
- ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3181 OR M-DC PA-107-05.
- UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- BASE AND CAP FLASHINGS:
BASE AND CAP FLASHINGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 7.1 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.
- VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 18 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1070.

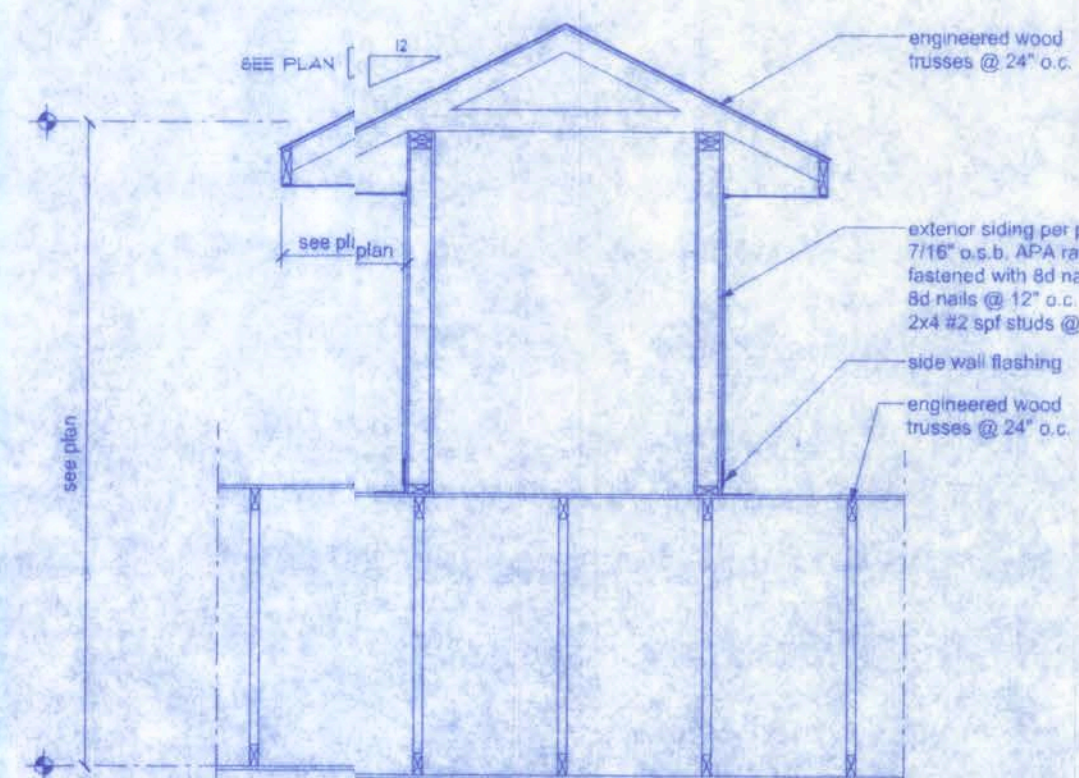
MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (lb)
COPPER			1
ALUMINUM	0.024	28	
STAINLESS STEEL			
GALVANIZED STEEL	0.0178	26 (zinc coated G90)	
ZINC-ALLOY LEAD			2 1/2
PAINTED TERNE	0.027		20



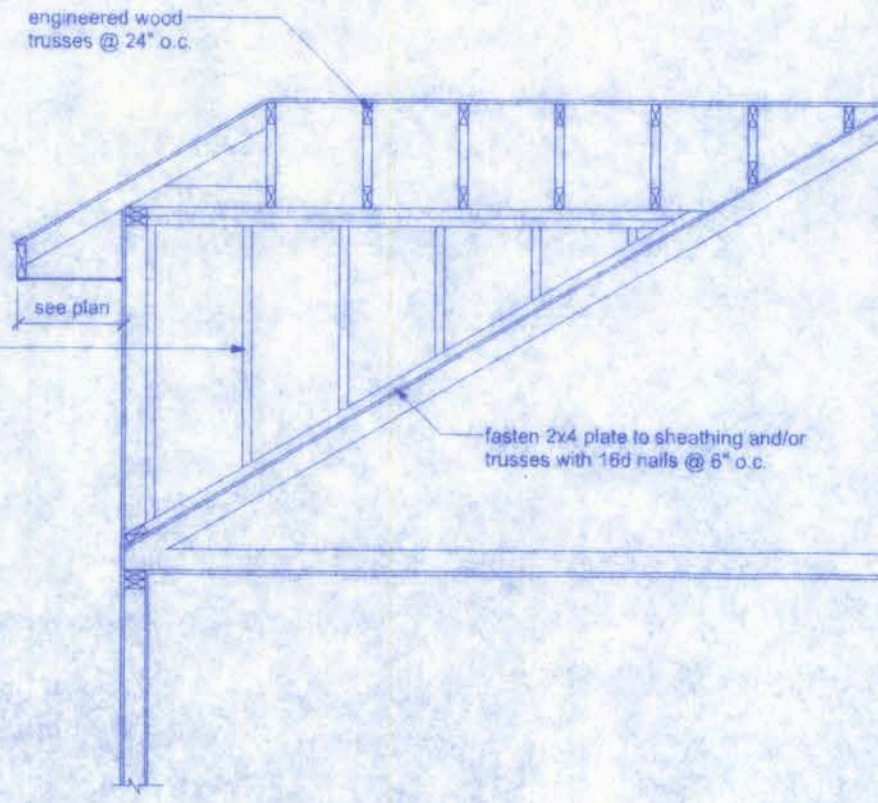
CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE				
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H255	5-8x NAILS	5-8x NAILS	365 LBS	SIMPSON
H110	5-8x NAILS	8-8x NAILS	850 LBS	SIMPSON
MT512	7-10x NAILS	7-10x NAILS	1,020 LBS	SIMPSON
H115	2-10x NAILS	10-10x NAILS	1,300 LBS	SIMPSON
H2115	10-10x NAILS	10-10x NAILS	2 x 1,450 + 2,900 LBS	SIMPSON



ROOF INTERSECTION CONNECTION DETAIL
NTS



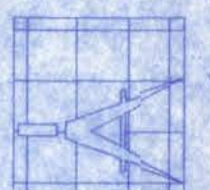
DORMER SECTION
SCALE: 3/8" = 1'-0"



DORMER SECTION
SCALE: 3/8" = 1'-0"

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 33025
(800)750-4200



Freeman
Design Group

DATE
6/3/09

DRAWN BY
W.H.F.

APPROVED
W.H.F.

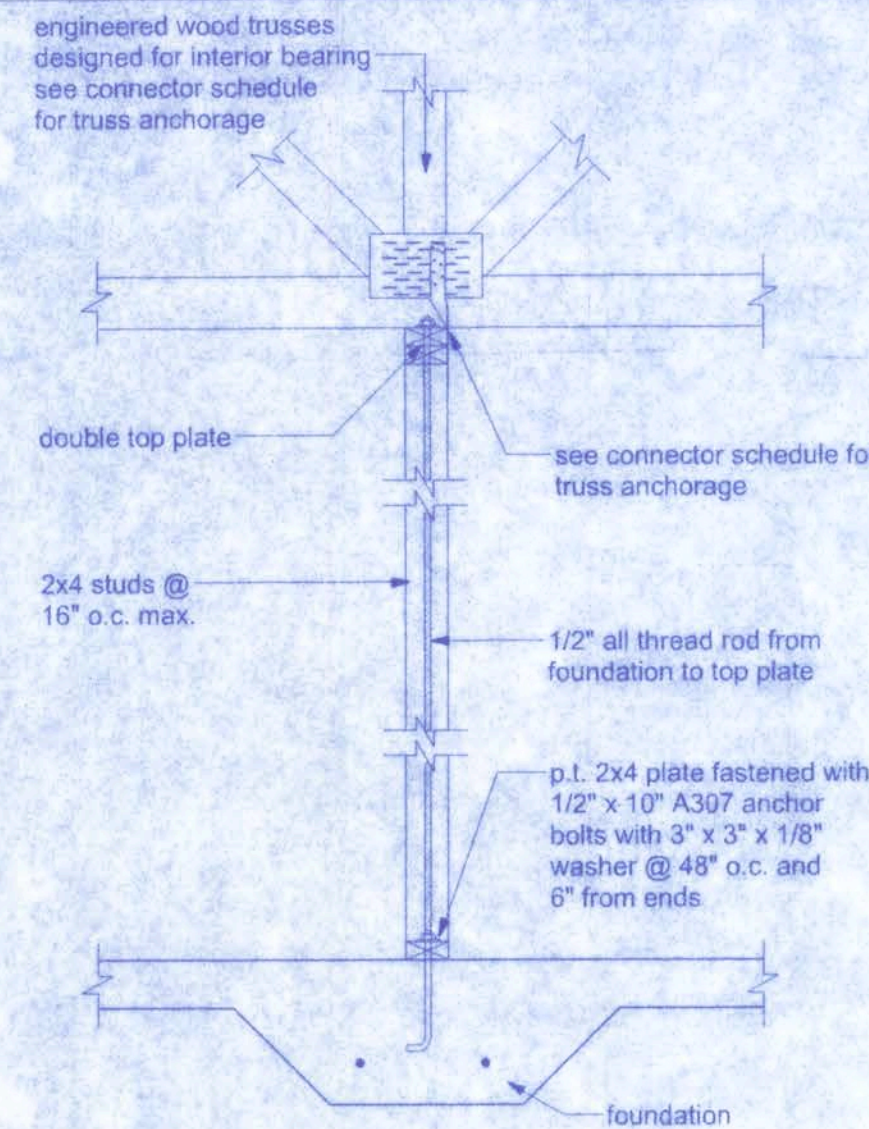
REVISIONS

SHEET A-6

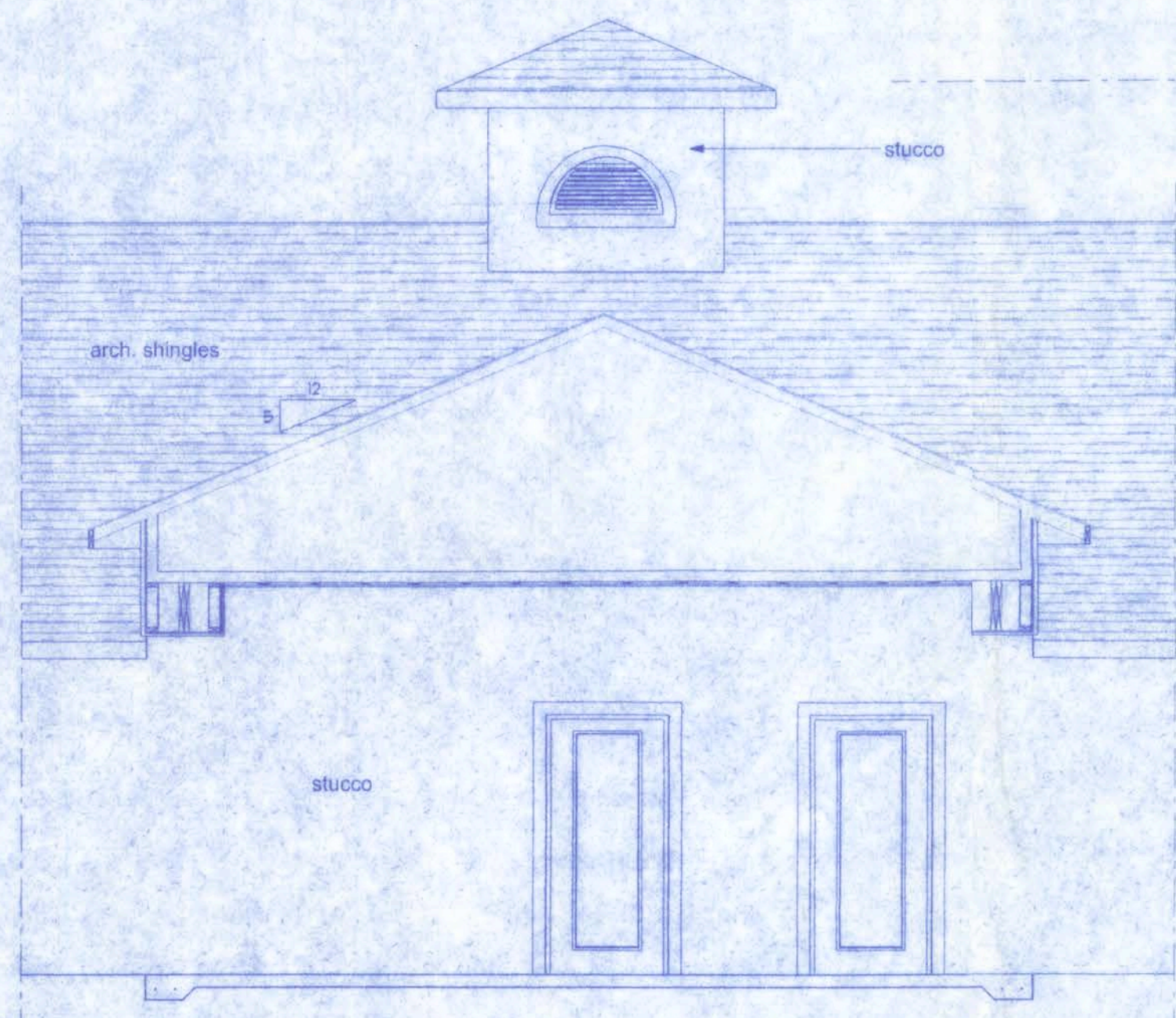
OF 11

PROJECT NO.
09.007

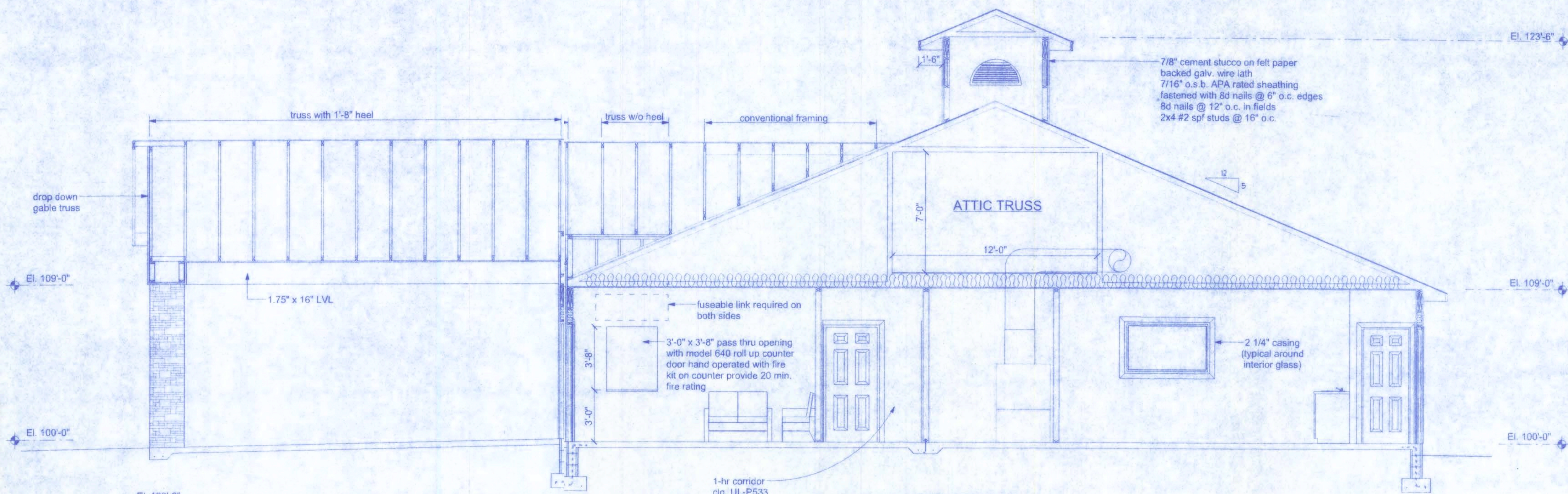
CERTIFICATE OF AUTHORIZATION # 00080701



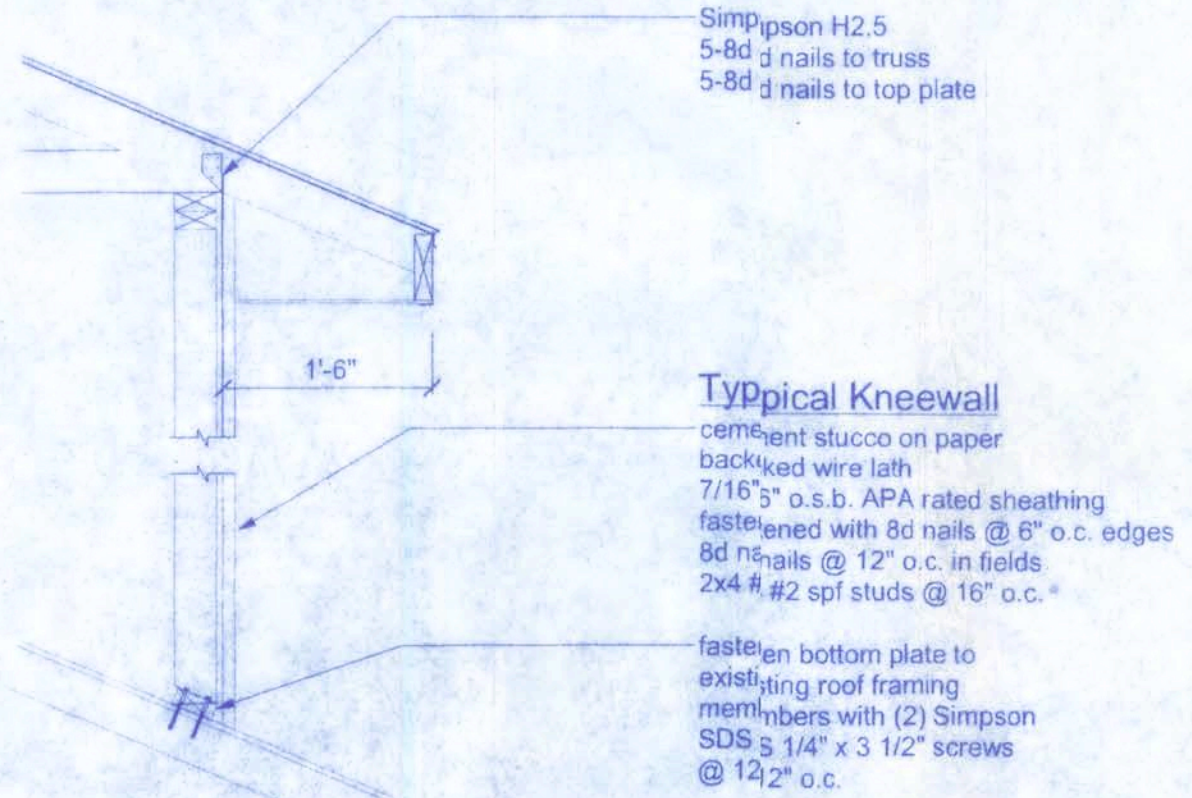
INTERIOR BRG. WALL DETAIL
SCALE: 3/4" = 1'-0"



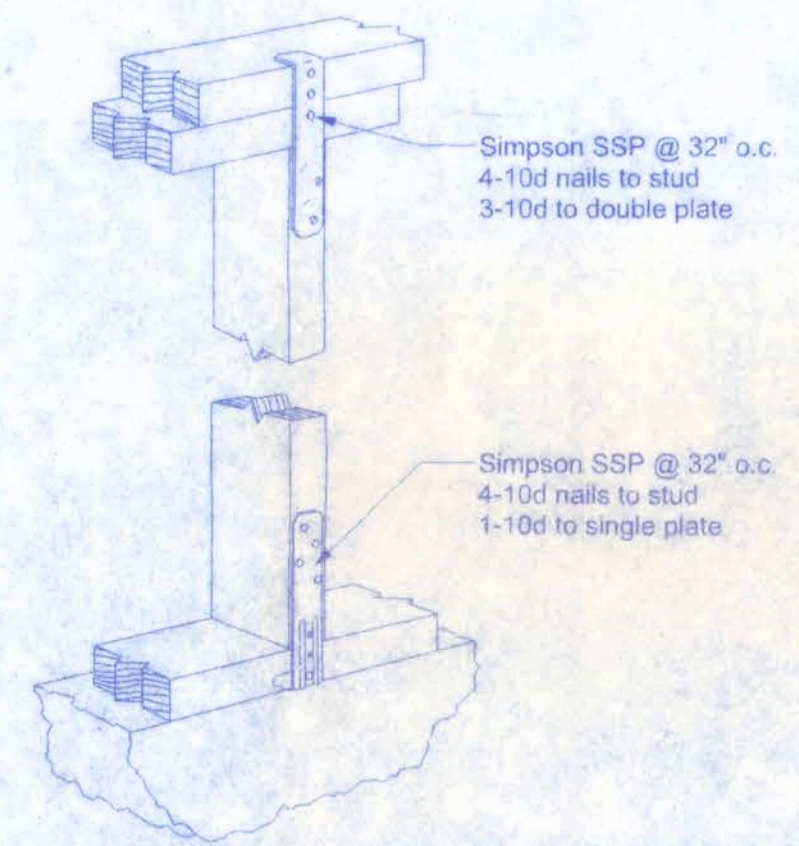
C SECTION
SCALE: 1/4" = 1'-0"



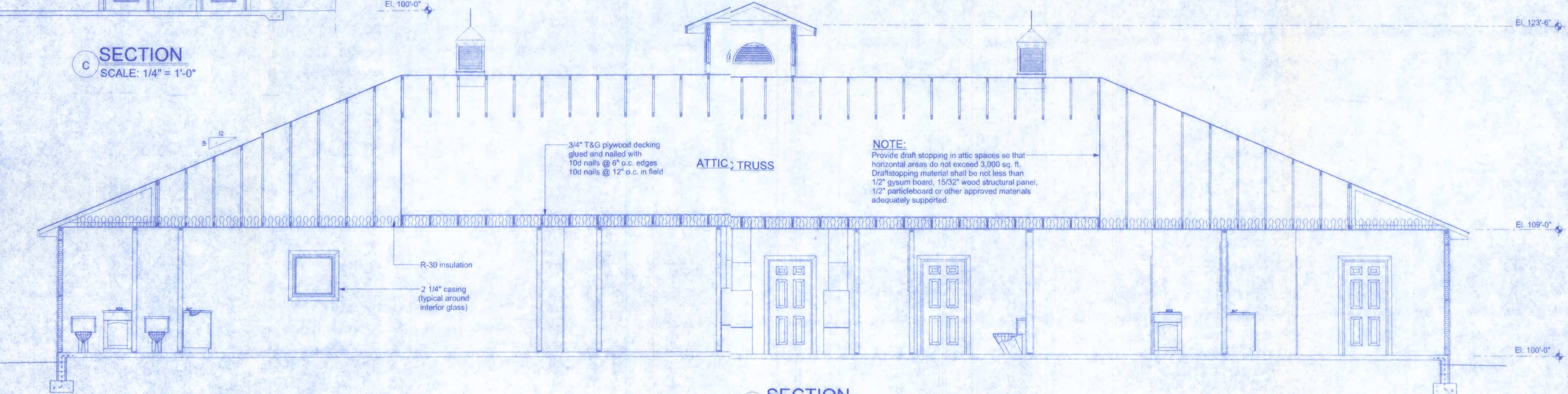
A SECTION
SCALE: 1/4" = 1'-0"



A CUPOLA KNEEWALL
SCALE: 3/4" = 1'-0"



B KNEEWALL CONNECTION
NTS



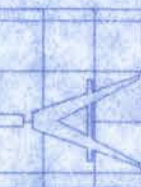
B SECTION
SCALE: 1/4" = 1'-0"

Delbert J. Jurek
7/27/09
P.E. # 55001

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(366)758-4209

CERTIFICATE OF AUTHORIZATION # 00000701



Freeman
Design Group Inc.

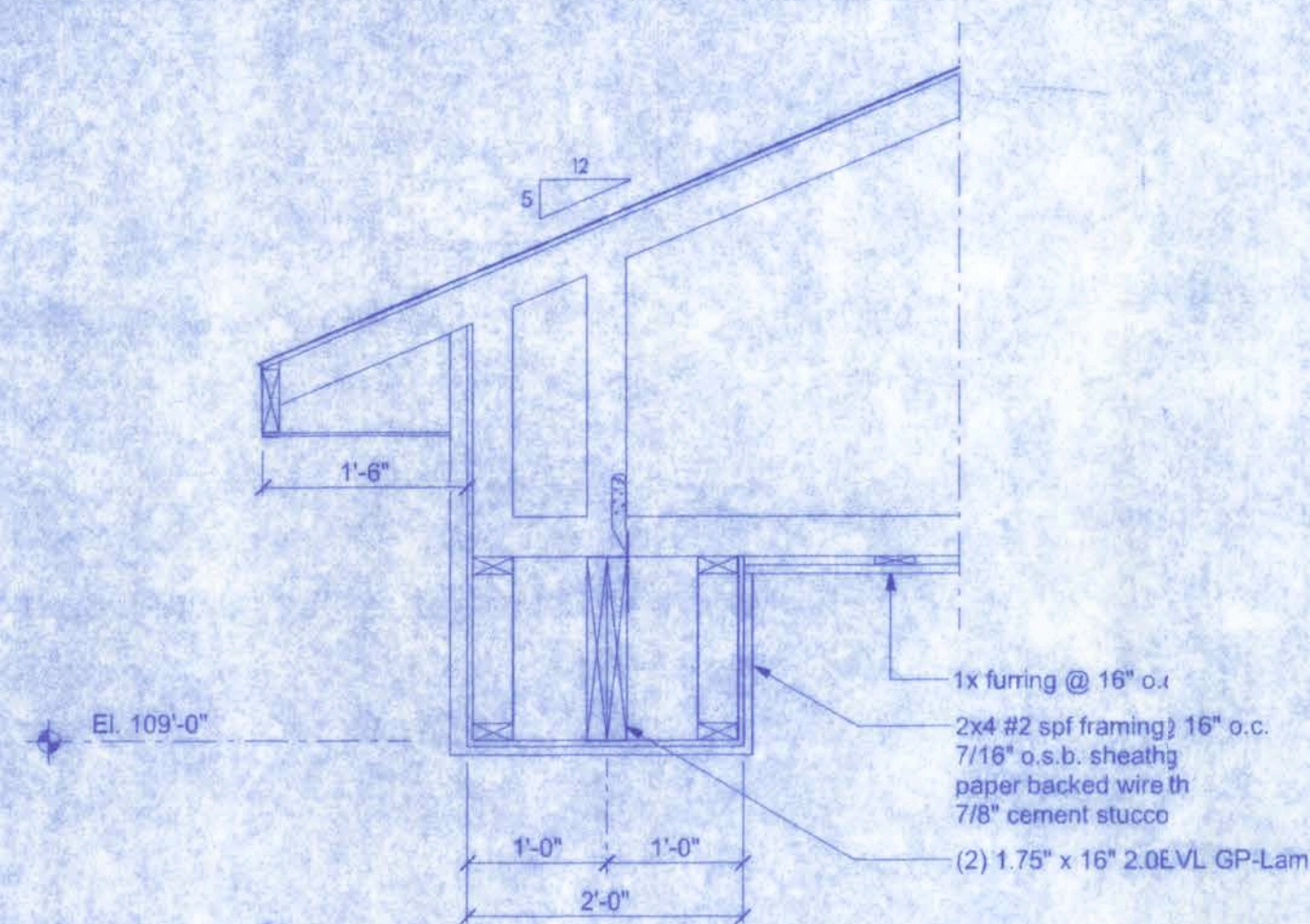
DATE: 7/27/09
DRAWN BY: W.H.F.
APPROVED: W.H.F.

REVISIONS

SHEET: A-7

OF: 11

PROJECT NO.: 09.C07

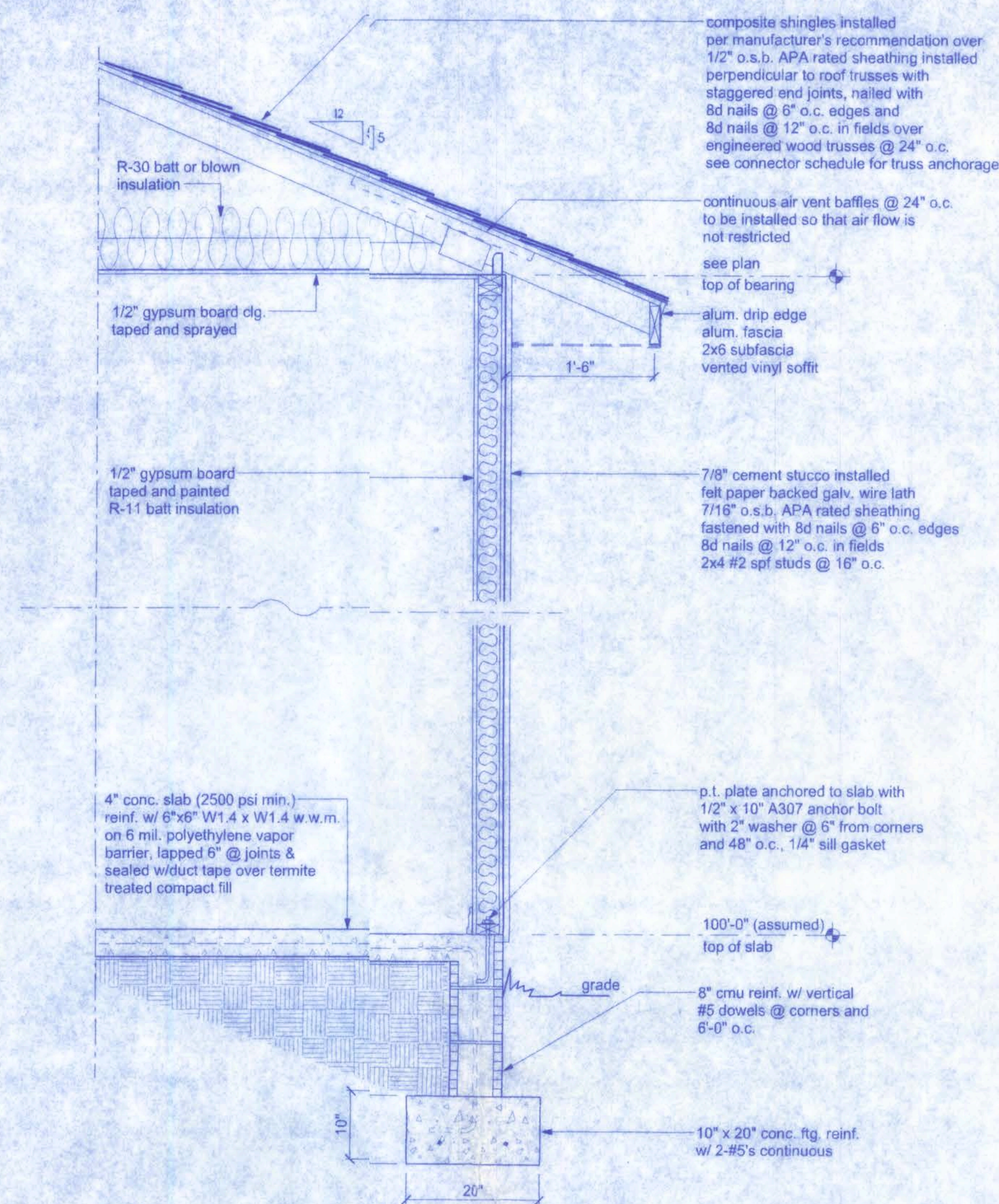


TYPICAL PORCH SECTION

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

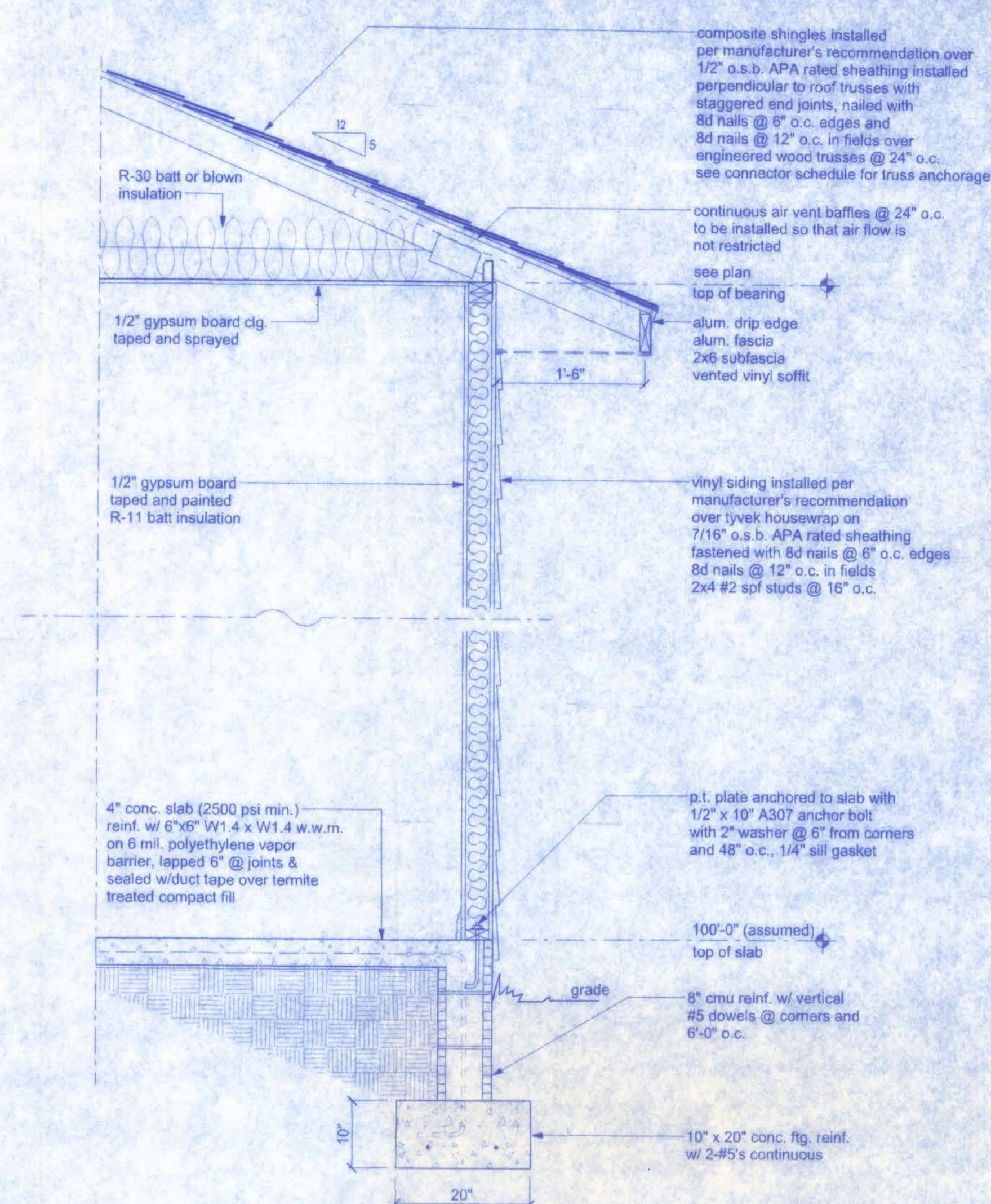
STRUCTURAL STEEL

- S1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORT TO A/E.
- S2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- S3 MATERIAL
BEAMS & CHANNELS ASTM A572, GRADE 50
STEEL TUBING ASTM A500, GRADE B
PLATES ASTM A36
BOLTS ASTM A325
ANCHOR BOLTS ASTM A36 THREADED RD - 6" MIN. EMBEDMENT WITH 2" HOOK
EXPANSION ANCHORS RAMSET/REDHEAD TRIUOLT OR APPROVED EQUIVALENT
NON-SHRINK GROUT 5000 PSI
- S4 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- S5 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING.
- S6 PROVIDE NUT & WASHER FOR ALL BOLTS AND ANCHOR BOLTS.
- S7 ALL WELDED CONNECTIONS SHALL BE 1/4" FILLET ALL AROUND. NO. ALL BOLTED CONNECTIONS SHALL BE 1/2" DIA. A325 BOLTS, UNO.



TYPICAL WALL SECTION

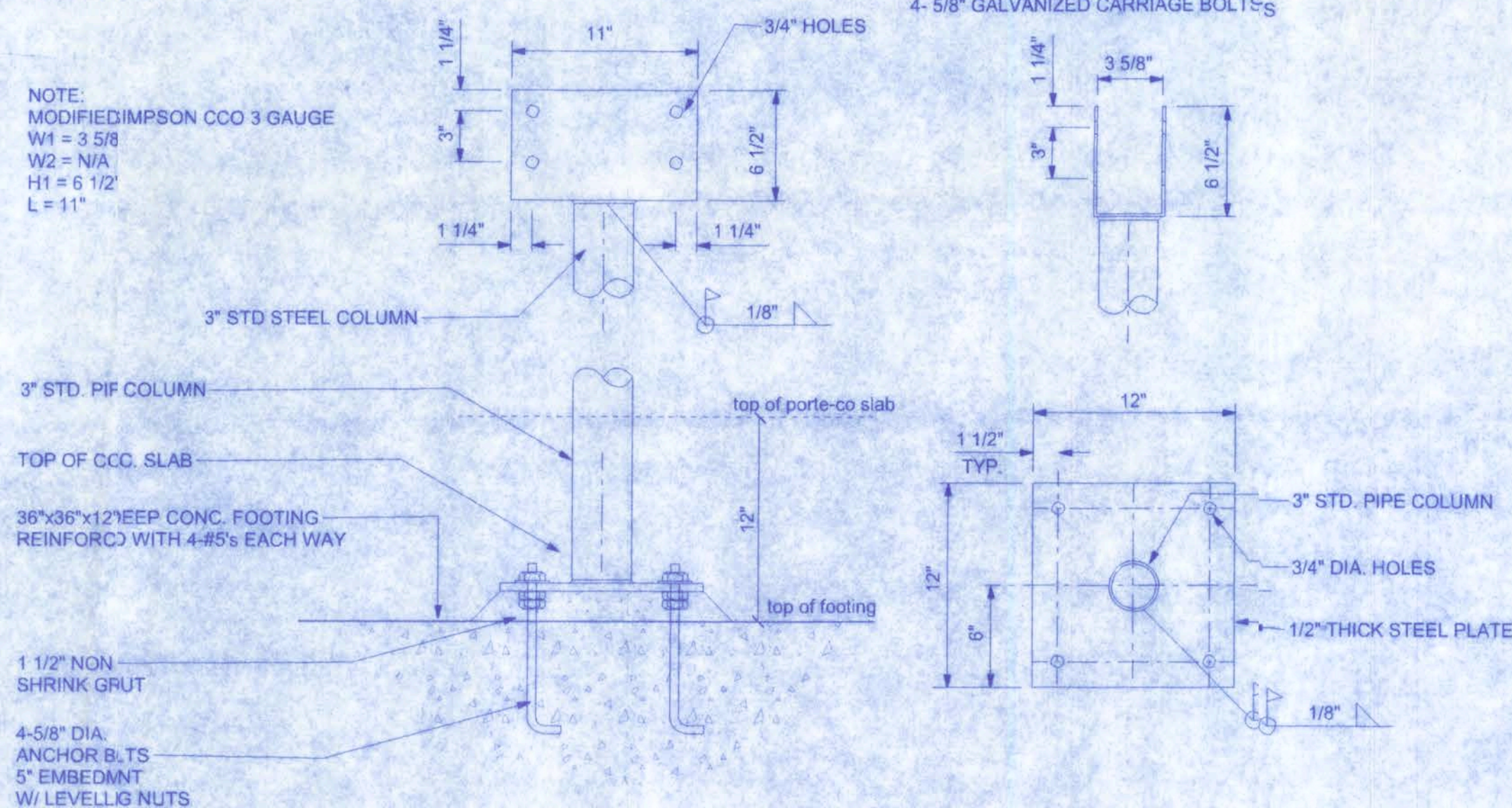
SCALE: 3/4" = 1'-0"



TYPICAL WALL SECTION

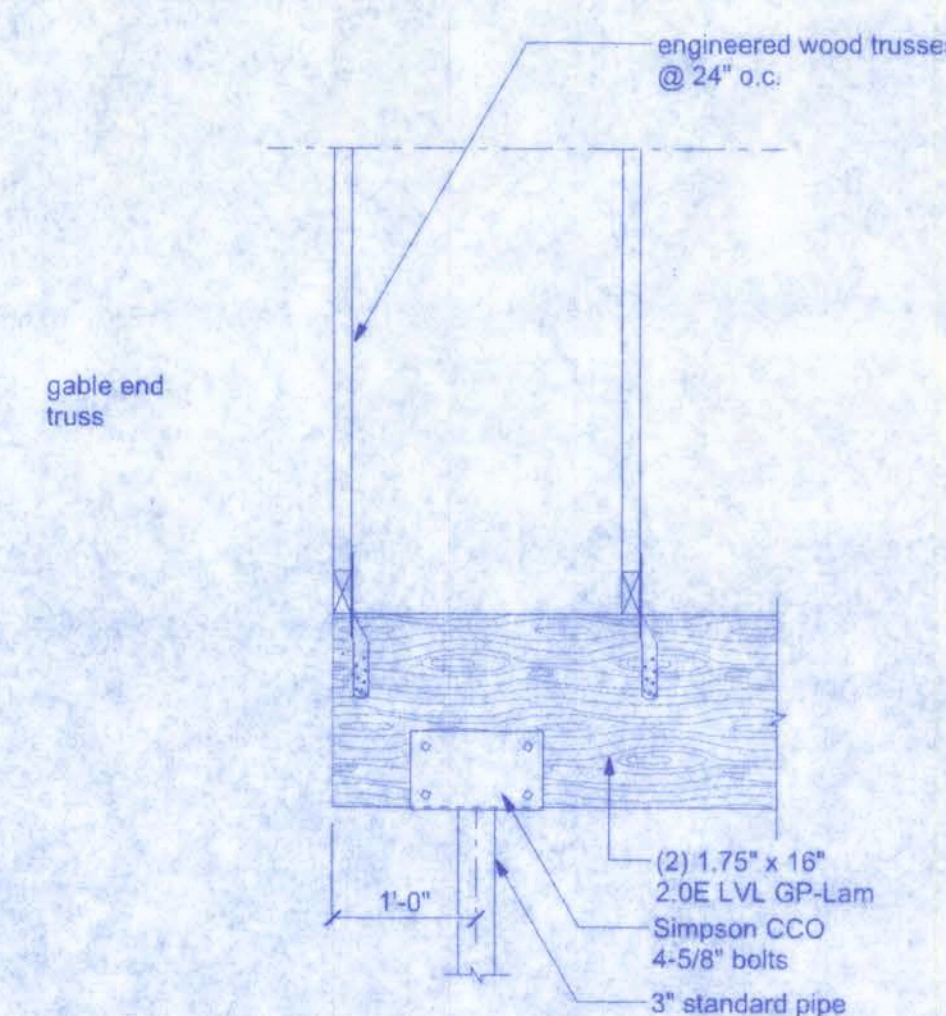
SCALE: 3/4" = 1'-0"

NOTE:
MODIFIED SIMPSON CCO 3-GAUGE
W1 = 3 5/8
W2 = N/A
H1 = 6 1/2
L = 11"



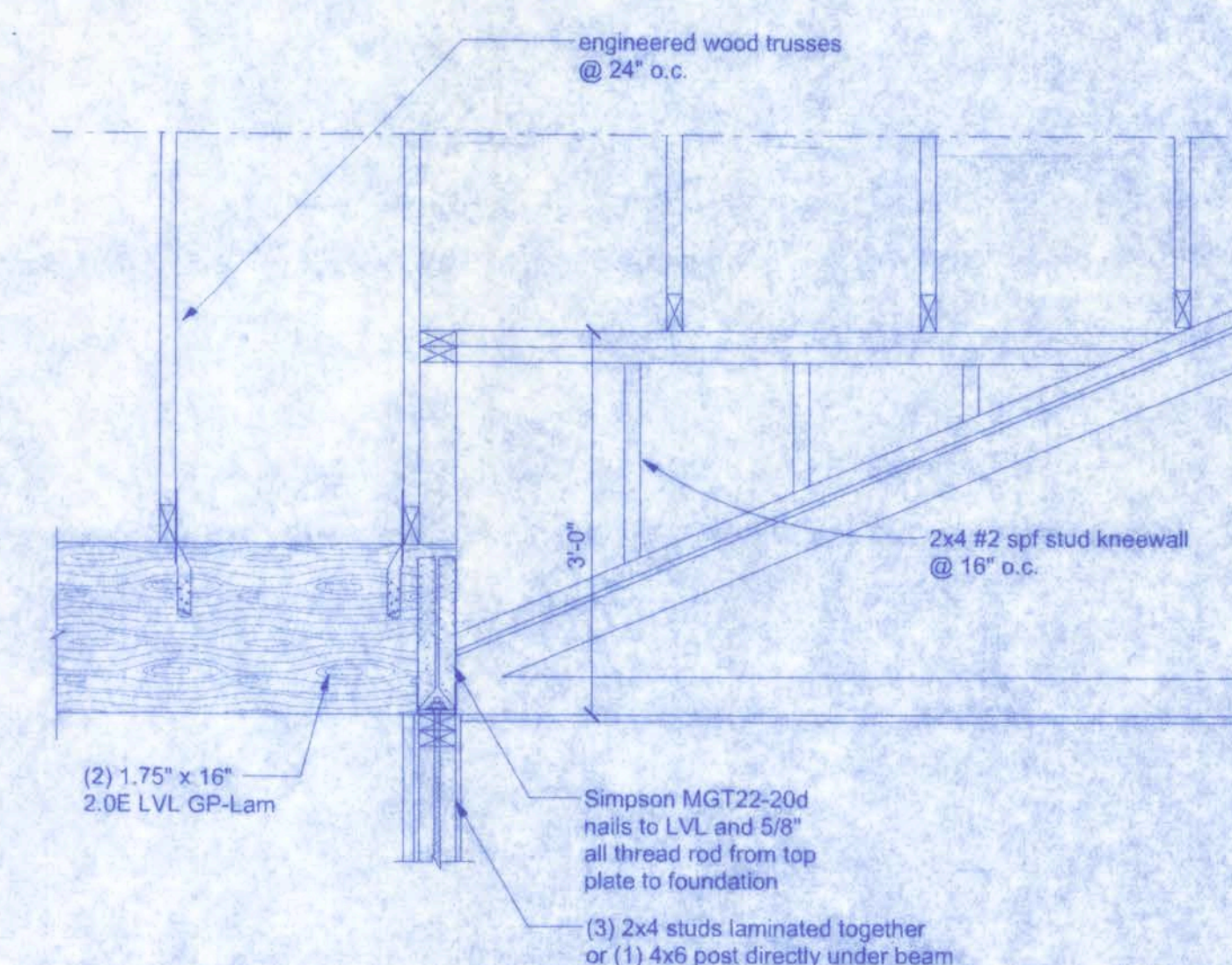
STEEL COLUMN DETAILS

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



BEAM CONNECTION

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



BEAM CONNECTION

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

Freeman
Design Group Inc.

128 SW NASSAU STREET
LAKE CITY, FL 32025
(904) 760-4200

CERTIFICATE OF AUTHORIZATION # 00008701

DATE 6/9/09
DRAWN BY W.H.F.
APPROVED W.H.F.

REVISIONS

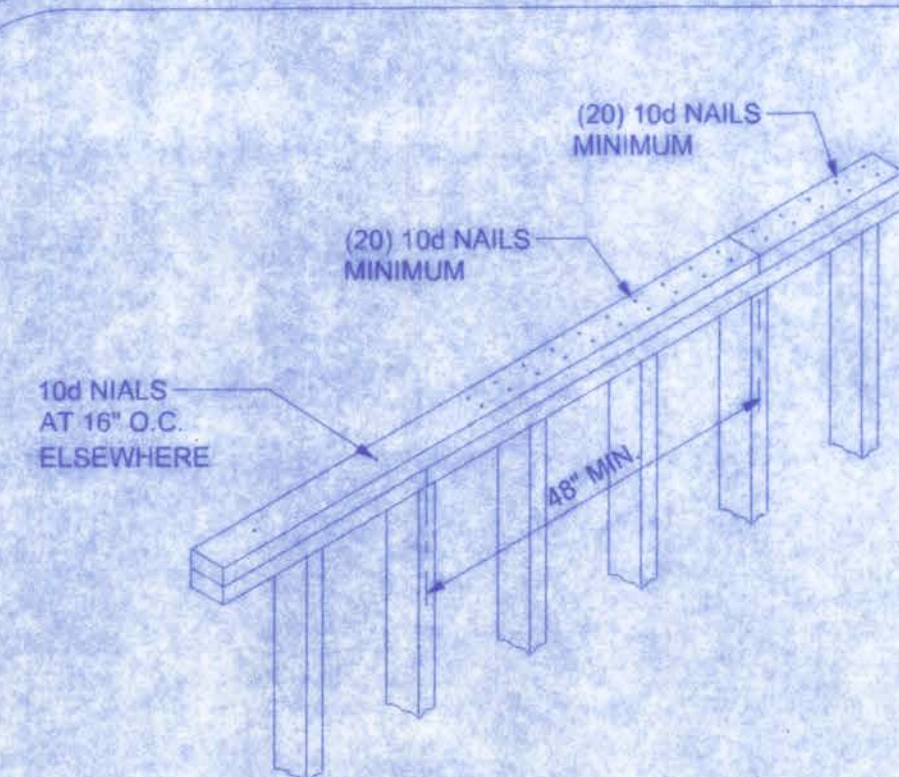
SHEET A-8

OF 11

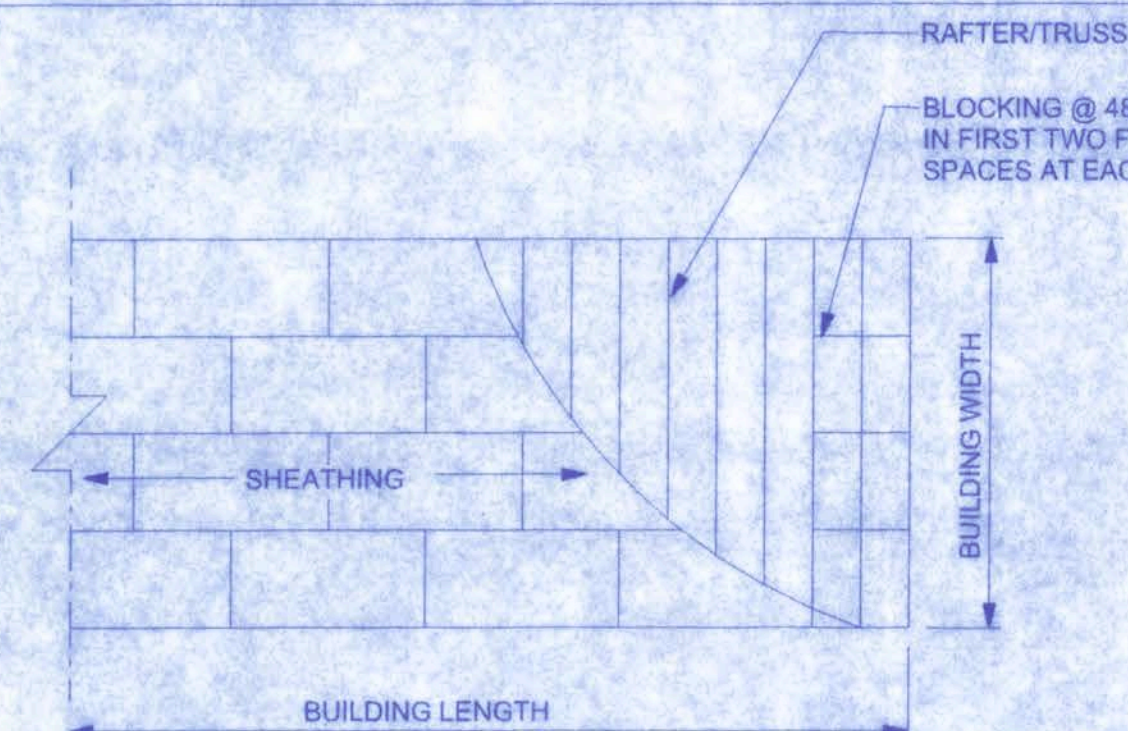
PROJECT NO.
09.007

CASTLE HILL ACADEMY

Castle Hill Academy
6/8/09
P.E. # 30301



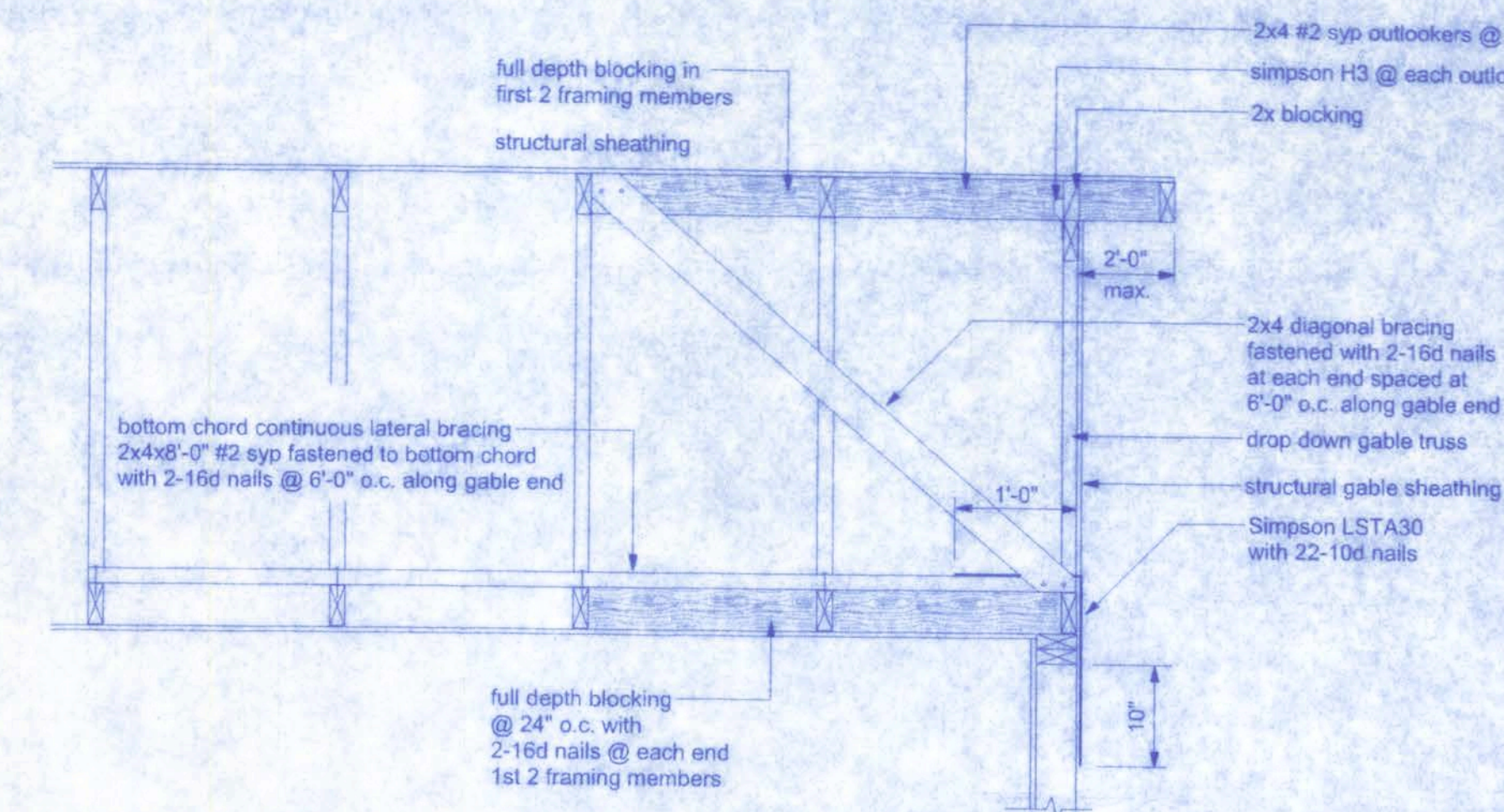
TOP PLATE SPLICE DETAILS
SCALE: 1/2" = 1'-0"



**ROOF SHEATHING LAYOUT
AND ENDWALL ROOF BRACING**

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

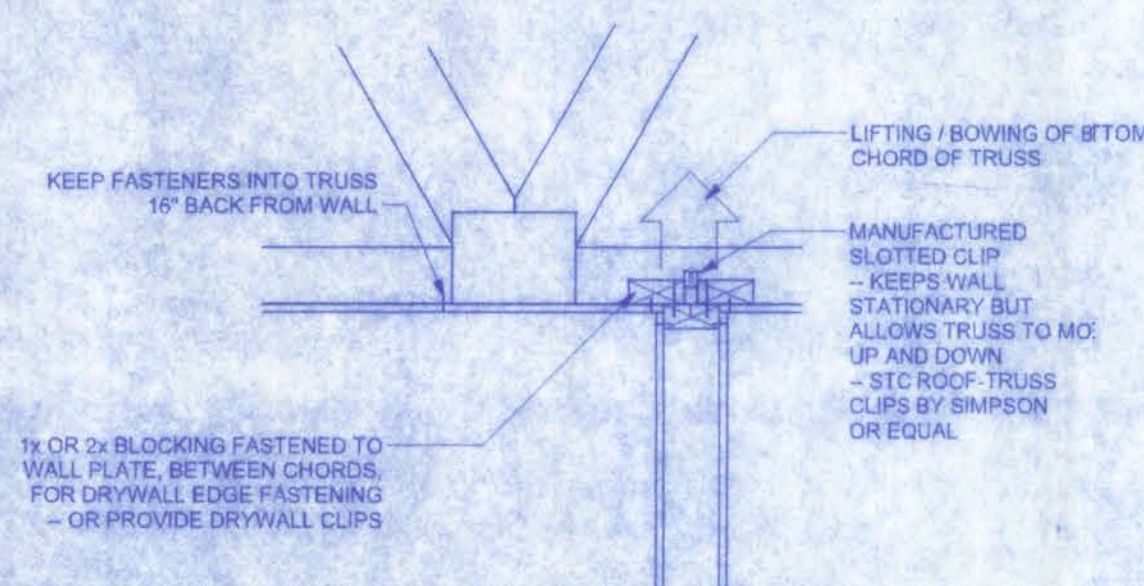
STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - v. wind loads with brittle finishes	L/240
exterior walls - v. wind loads with flexible finishes	L/120



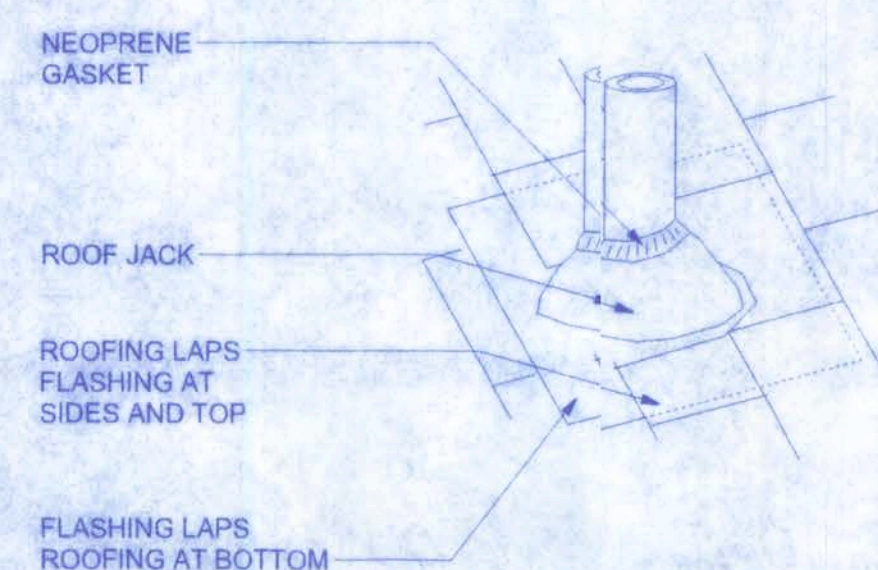
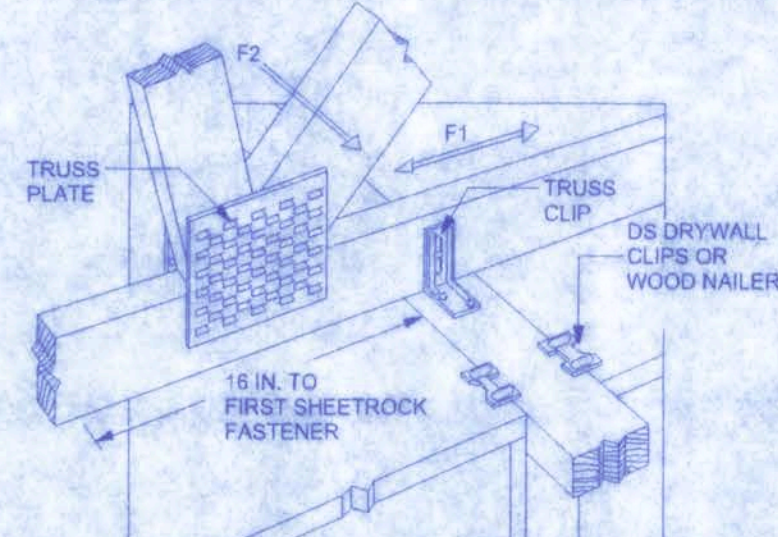
END WALL BRACING FOR CEILING DIAPHRAGM

NTS

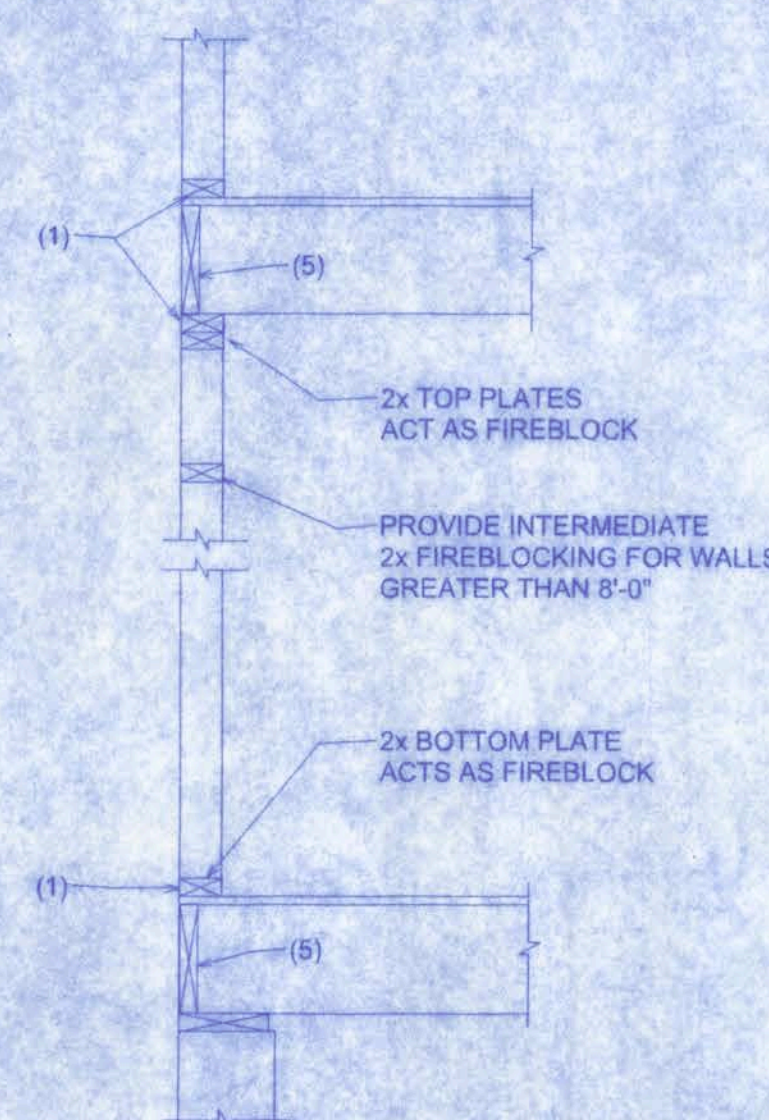
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



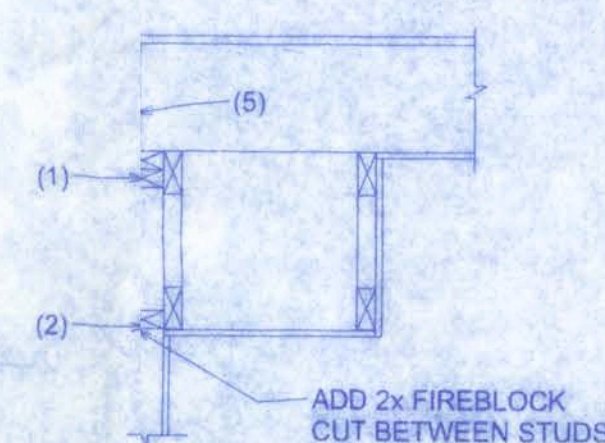
NON-BEARING INT. WAL ATTACHMENT TO TRUSSES



ROOF JACKS AND VENTS



PLATFORM FRAMING

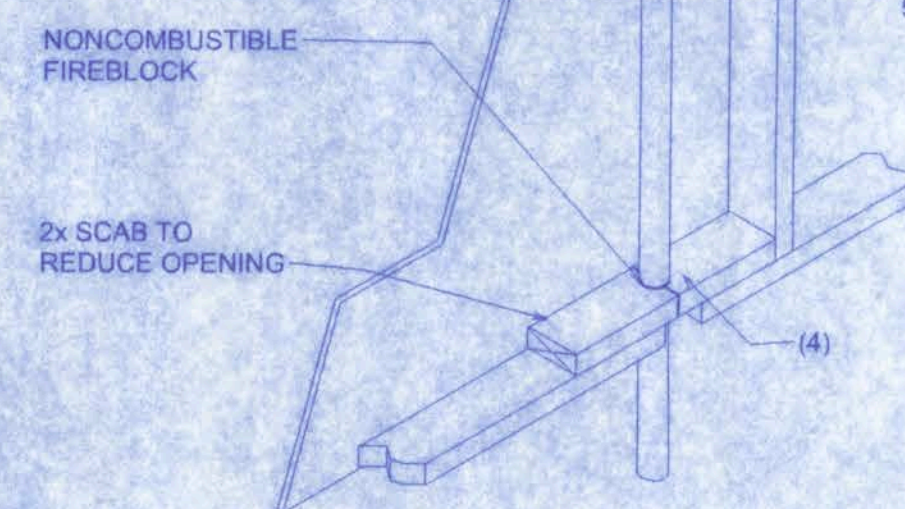


OFFSET/DROPPED CLG.

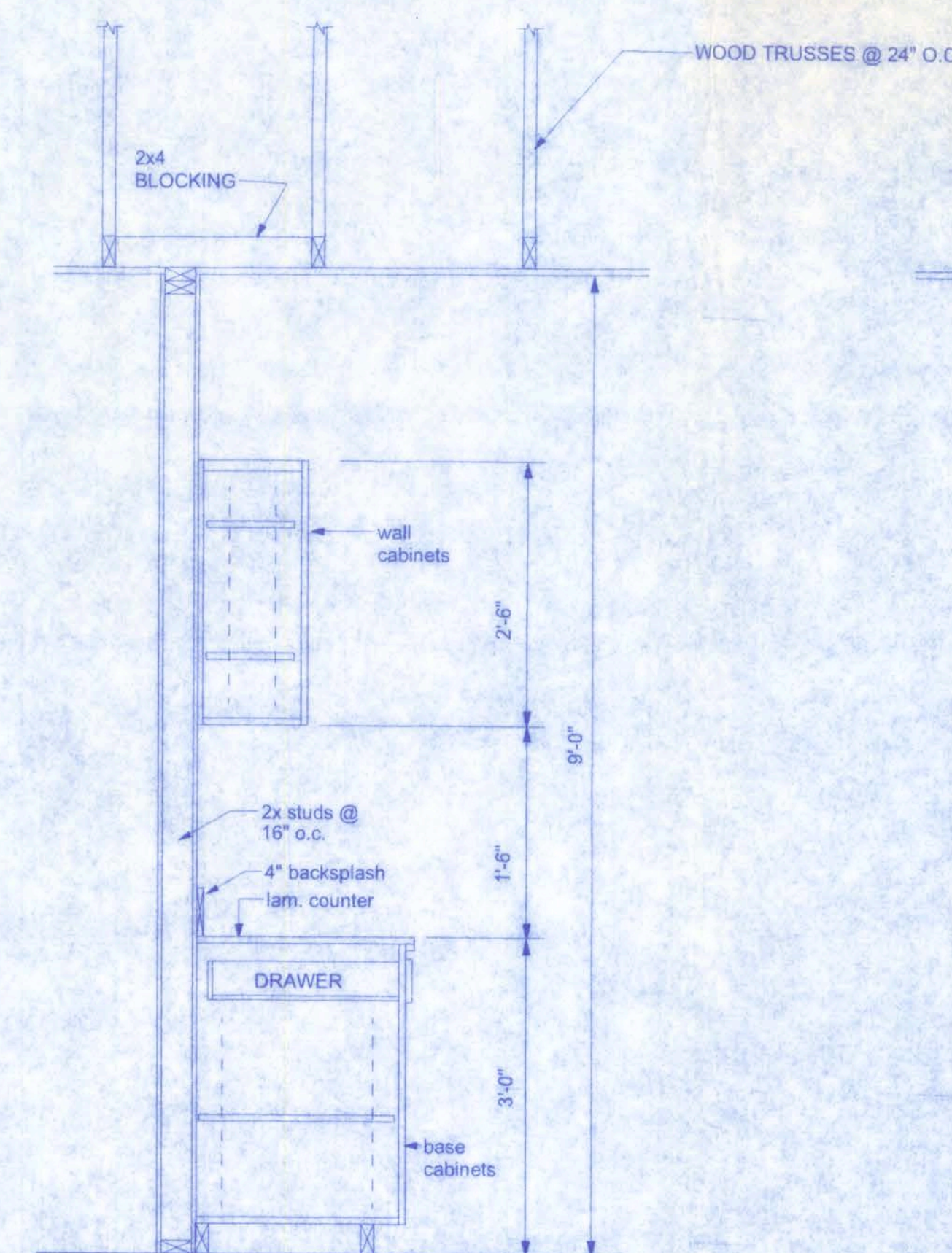
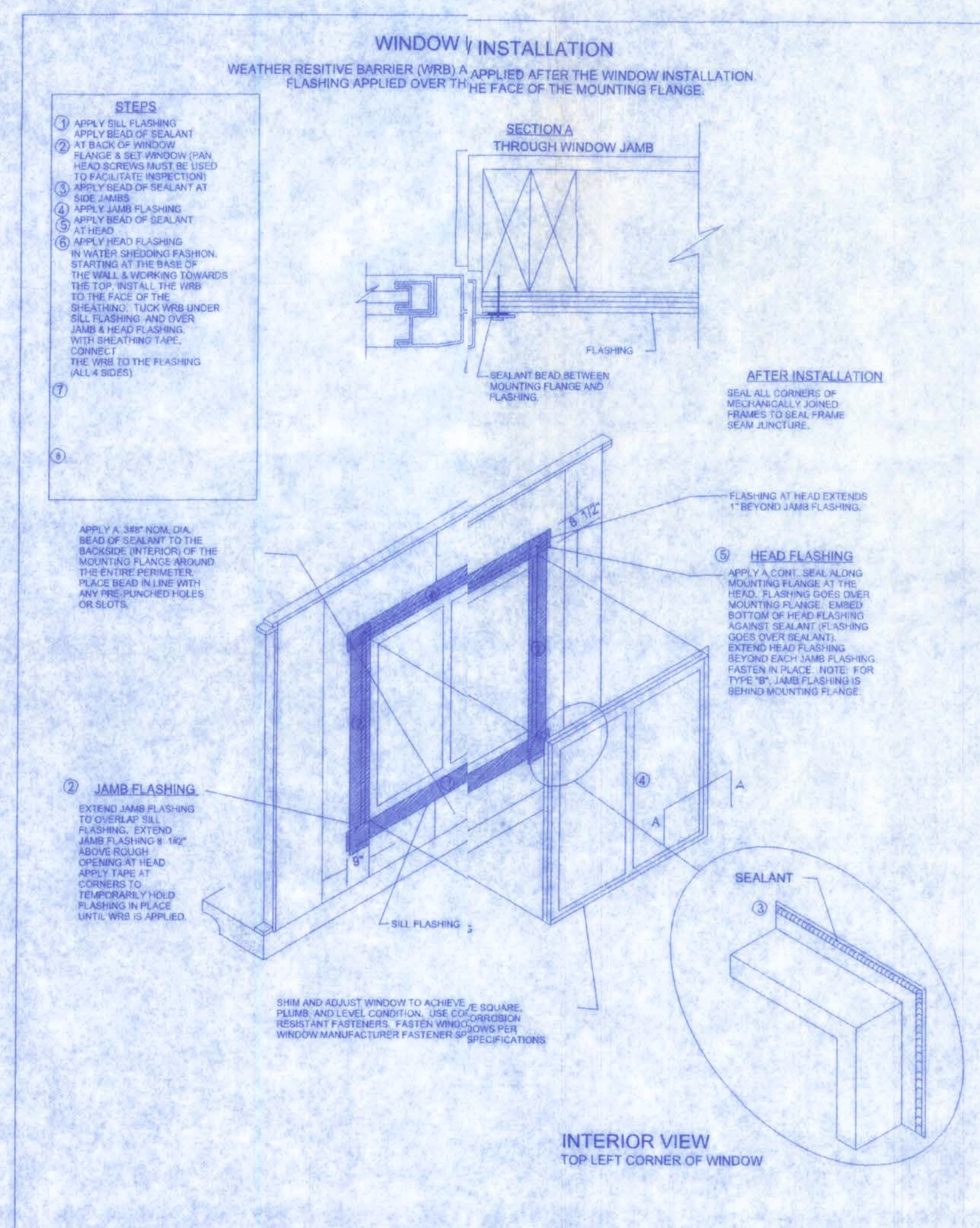
FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

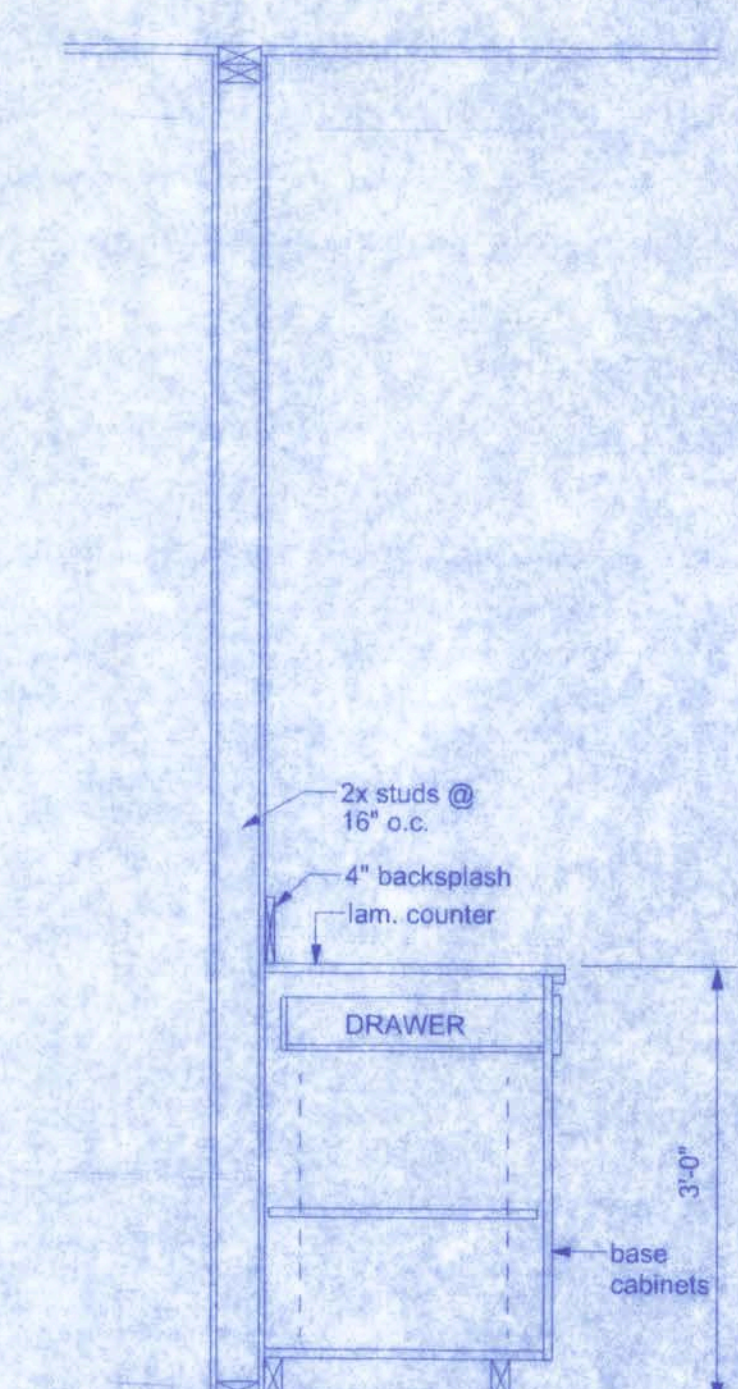
1. IN CONCEALED SPACES IF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCURT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYRO PANEL MULTIFLEX SEALANT
5. AT ALL INTERCONNECTS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND UNCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS. FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.



PENETRATIONS

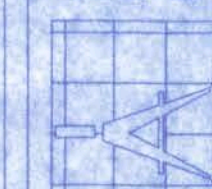


KITCHEN CABINET SECTION, TYP.
SCALE: 3/4" = 1'-0"



CLASS CABINET SECTION, TYP.
SCALE: 3/4" = 1'-0"

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4209



Freeman
Design Group

DATE: 6/3/09
DRAWN BY: W.H.F.
APPROVED: W.H.F.

REVISIONS

SHEET: A-9
OF: 11

PROJECT NO.: 09-007

CERTIFICATE OF AUTHORIZATION # 00000701

CASTLE HILL ACADEMY

INTERIOR FINISH SCHEDULE					
ROOM	FLOORING	BASE	WALLS	CEILING	CLG. HEIGHT
OFFICE	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
MECH. ROOM	CONCRETE	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
KITCHEN	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
UTILITY ROOM	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
HALLWAY	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
H.C. RESTROOM	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
ROOM RESTROOMS	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
CLASSROOMS	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
LOBBY	STRIP VINYL	3 1/4" WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
PORCH	CONCRETE	N/A	N/A	VINYL SOFFIT	10'-4"

NOTE:
ALL WALLS SHALL RECEIVE ONE PRIMER COAT AND 2 FINISH COATS OF LATEPAINT.
COLORS BY OWNER.

FIXTURE SCHEDULE

H.C. ACCESSIBLE RESTROOM	
QTY.	DESCRIPTION
1	GERBER #21-718, 17" HIGH ELONGATED BOWL, WHITE.
1	GERBER #22-554 24"x20" LAV. W/ PEDESTAL, WHITE.
1	GERBER 44-051 SERIES LAVATORY FAUCETS W/ WRIST BLADE HANDLES.
1	1 1/2" X 36" GRAB BAR ON WALL BEHIND TOILET.
1	1 1/2" X 42" GRAB BAR ON WALL LEFT SIDE OF TOILET.

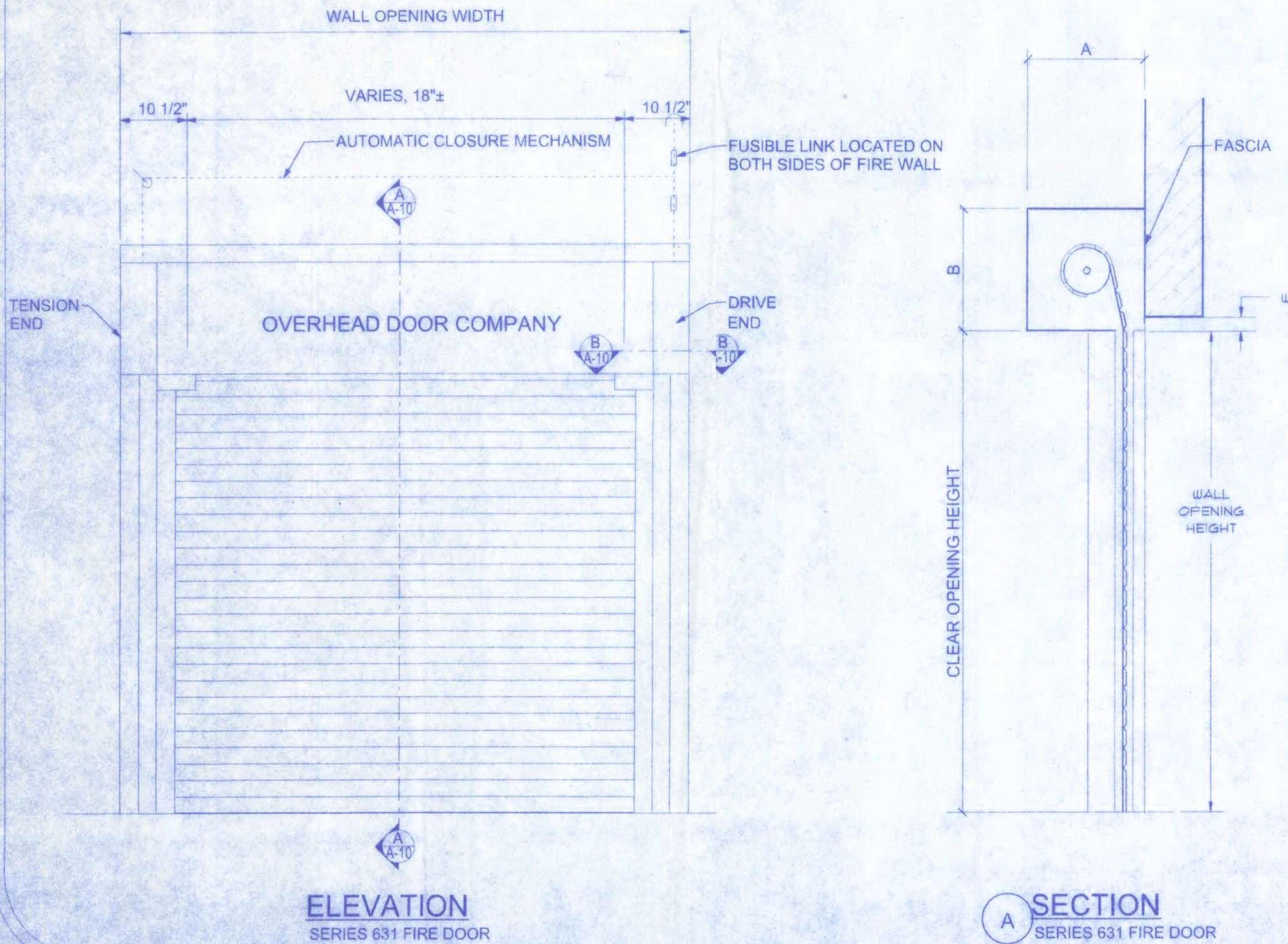
ROOM RESTROOM/SINK	
QTY.	DESCRIPTION
1	UNIVERSAL RUNDLE 20" x 17" SELF RIMMING SINK, WHITE 1 Y/O AND INFANT ROOM
1	KOHLER 33491-1 SELF RIMMING STAINLESS STEEL SINK ALL OTHER ROOMS
1	KOHLER K15171-F SINGLE LEVER FAUCET
1	GERBER #21-302 ROUND BOWL, WHITE

KITCHEN	
QTY.	DESCRIPTION
1	KOHER STAINLESS STEEL 3-WELL SINK #K-3248-1
1	KOHER FORTE® KITCHEN FAUCET W/SIDESPRAY IN ESCTCHEON AND LEVER HANDLE #K-10413
1	KOHER STAINLESS STEEL SINK #K-3349-1.
1	KOHER REVIVAL SINK FAUCET #K-16112-4A SINCE HANDLE

STORAGE ROOM	
QTY.	DESCRIPTION
1	THEMOPLASTIC LAUNDRY TUB
1	KOHER K-11935-U TWO HANDLE FAUCET

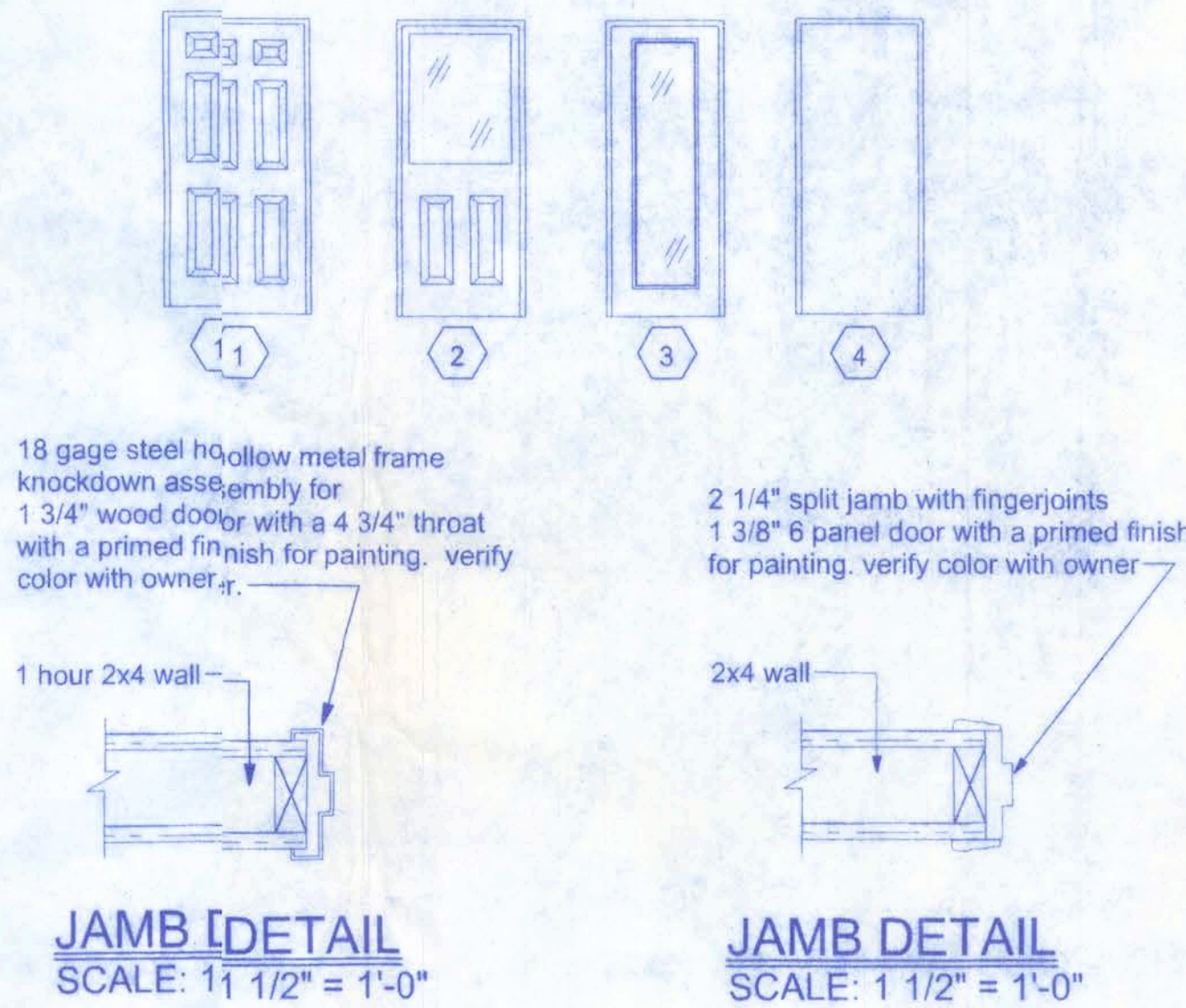
UTILITY ROOM	
QTY.	DESCRIPTION
1	KOHER STAINLESS STEEL SINK #K-3349-1.
1	KOHER REVIVAL SINK FAUCET #K-16112-4A SINCE HANDLE

WATER COOLER - OASIS MODEL P8AMEE WATER COOLER (CORRIDOR)
OASIS MODEL FLF120 WATER COOLER (EXTERIOR)



DOOR SCHEDULE													
NO.	LOCATION	DOOR SIZE	TYPE	MATERIAL	JAMB MATERIAL	JAMB SIZE	LOCKS	DOOR CLOSER	PULL PLATE	PUSH PLATE	KICK PLATE	DOOR BUMPER	FIRE RATING
A	FRONT EXIT	3/0 X 6/8 X 1 3/4	3	STOREFRONT	METAL	4 1/2	ENTRY LOCK PANIC HARDWARE	X				X	
B	CORRIDOR INTERIOR	3/0 X 6/8 X 1 3/4	4	BIRCH	METAL	4 3/4	PRIVACY	X				X	20 MIN.
C	MECHANICAL ROOM	3/0 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 1/2	keyed exterior single lever exit hardware interior					X	
D	CLASS-3 EXTERIOR	3/0 X 6/8 X 1 3/4	1	METAL	WOOD	4 1/2	keyed exterior single lever exit hardware interior				X	X	
E	CORRIDOR/LOBBY	3/0 X 6/8 X 1 3/4	2	BIRCH	WOOD	4 3/4	PASSAGE					X	
F	CLASS-5 ROOM BATH	2/8 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 1/2	PRIVACY					X	
G	FRONT ENTRY	3/0 X 6/8 X 1 3/4	3	STOREFRONT	METAL	4 3/4	ENTRY LOCK PANIC H/W	X				X	
H	5 Y/O BATH	2/4 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 1/2	PRIVACY					X	
I	OFFICE BATH	2/6 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 1/2	PRIVACY					X	
J	H.C. CORRIDOR BATH	3/0 X 6/8 X 1 3/4	1	BIRCH	METAL	4 3/4	PRIVACY	X				X	20 MIN.
K	H.C. BATH	3/0 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 1/2	PRIVACY					X	
L	STORAGE	2/4 X 6/8 X 1 3/4	4	BIRCH	METAL	4 3/4	keyed exterior single lever exit hardware interior	X				X	20 MIN.

NOTE:
BATHROOM DOORS SHALL BE DESIGNED TO ALLOW OPENING OF LOCKED DOOR FROM OUTSIDE BY OPENING DEVICE READILY ACCESSIBLE BY STAFF.



NOTE:
CONTRACTOR TO VERIFY THE PROPER ROUGH OPENING WIDTH PRIOR TO ORDERING THE COIL DOOR. DO NOT CONSTRUCT THE 4 HOUR FIRE WALL WITHOUT PRIOR VERIFICATION OF THE ROUGH OPENING SIZE FROM THE DOOR MANUFACTURER.

OVERHEAD DOOR COMPANY (OR EQUAL)
DIMENSION A AND B
C187 AND F265 SLATS

MAX. WALL OPENING HEIGHT	C187 SLAT		F265 SLAT	
	A	B*	A	B*
THRU 9'3"	14 1/2"	19"	19 1/2"	21"
THRU 10'0"	14 1/2"	19 1/4"	21 1/2"	23 1/4"
THRU 11'0"	14 1/2"	19 3/8"	21 1/2"	23 3/8"
THRU 12'0"	14 1/2"	19 1/2"	21 1/2"	23 1/2"

*ADD 2" TO "B" DIMENSION WHEN ELECTRICALLY OPERATED.

DIMENSION W / EXPANSION GAP

MAX. WALL OPENING HEIGHT*	W
THRU 6'0"	3/4"
THRU 8'0"	1"
THRU 10'0"	1 1/4"
THRU 12'0"	1 1/2"

*HEADPLATE HEIGHT + "W" + 1/4" = EXPANSION GAP REQUIRED FOR BETWEEN JAMB FIREDOOR ABOVE HEADPLATE.

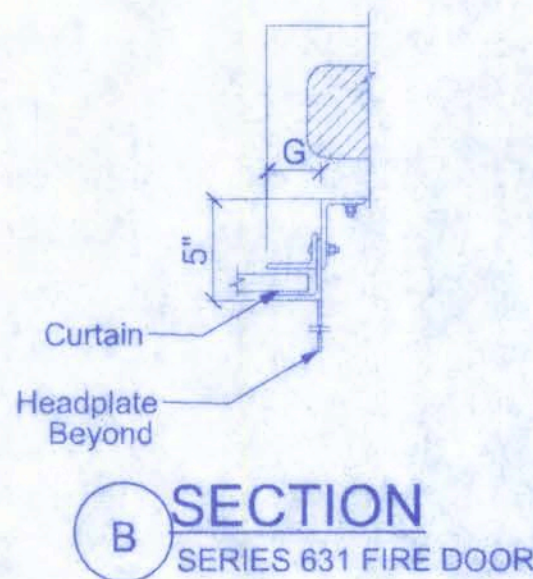


SILL DETAIL
SCALE: 1 1/2" = 1'-0"

PUSH PLATE - 4"x16" BB
PULL PLATE - 4"x16" #132X70C BB
WALL DOOR BUMPER #407 1/2 - BB
- ALL DOOR HANDLESETS AND LOCKS SHALL BE KWIK-SET OR EQUAL, COLOR AND STYLE DESIGN BY OWNER.
- ALL LEVER TYPE HARDWARE SHALL BE MOUNTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED HANDICAP MOUNTING HEIGHT.

GENERAL NOTES - DOORS

- ALL INTERIOR DOORS SHALL BE 6 PANEL MASONITE 6/8 x 1 3/8" PREHUNG UNLESS NOTED OTHERWISE.
- ALL EXTERIOR DOORS SHALL BE 6 PANEL METAL, PREHUNG 6/8 X 1 3/4" - WOOD JAMBS WEATHERSTRIPPING, AND THRESHOLD FACTORY INSTALLED UNLESS NOTED OTHERWISE.
- IF REQUIRED, UNDERCUT DOORS FOR RETURN AIR. COORDINATE WITH MECHANICAL SUB-CONTRACTOR AS PER FINAL DESIGN.
- CONFIRM DEPTHS OF ALL WOOD FLAT JAMBS. COORDINATE WITH CORRESPONDING WALL SECTIONS, PARTITION TYPES, AND WALL MODIFICATION DETAILS.
- PAINTE ALL EXTERIOR SURFACES OF EXTERIOR METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELECTION BY OWNER.
- PAINTE ALL INTERIOR SURFACES OF EXTERNAL METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELECTION BY OWNER.
- PAINTE ALL INTERIOR WOOD FLAT JAMBS. COLOR SELECTION BY OWNER.
- PAINTE ALL INTERIOR DOORS. COLOR SELECTION BY OWNER.



DIMENSION W
EXPANSION GAP

MAX. WALL OPENING HEIGHT*	W
THRU 6'0"	3/4"
THRU 8'0"	1"
THRU 10'0"	1 1/4"
THRU 12'0"	1 1/2"

*HEADPLATE HEIGHT + "W" + 1/4" = EXPANSION GAP REQUIRED FOR BETWEEN JAMB FIREDOOR ABOVE HEADPLATE.

Dimension G*
C187, C275 and F265 Slats

Max. Wall Opening Width	G
Thru 8'0"	2 3/4"
Thru 12'0"	3 1/4"
Thru 14'0"	3 1/2"
Thru 16'0"	3 1/2"
Thru 20'0"	4 1/4"
Thru 24'0"	5 1/4"

Dimension H*
Drive End

Type of Operation	H
Push-Up	4"
Elect., Chain, Crank	7 1/2"

Dimension H*
Tension End
C187, C275 and F265 Slats

Max. Wall Opening Width	H
Thru 14'0"	4"
Thru 20'0"	4 1/2"
Thru 24'0"	5 1/4"

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386)758-4209

Freeman
Design Group Inc.

DATE
7/27/08

DRAWN BY
W.H.F.

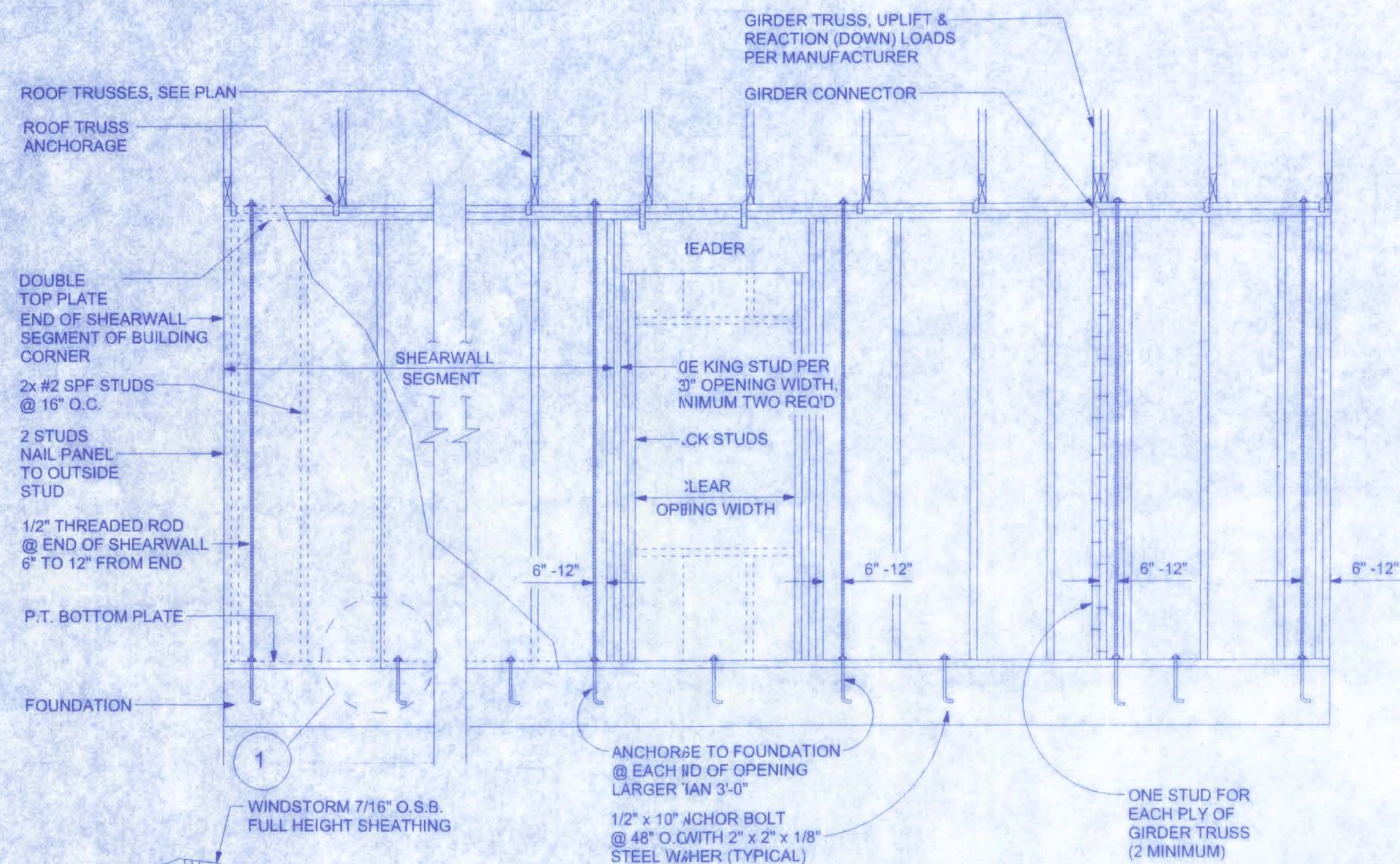
APPROVED
W.H.F.

REVISIONS

SHEET A-10

OF 11

PROJECT NO.
09.C007



SHEARWALL DETAILS
SCALE: 1/2" = 1'-0"

DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

UPLIFT CAPACITY = 474 plf (TABLE 305S1 SSTD10-99)

- RULES:**
1. One all-thread rod at each corner.
 2. One all-thread rod at each end of shearwalls.
 3. One all-thread rod at each end of opening headers greater than 3'-0".
 4. Check sub-sheathing to top plate connection for horizontal transfer capability.
 5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf.
 6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

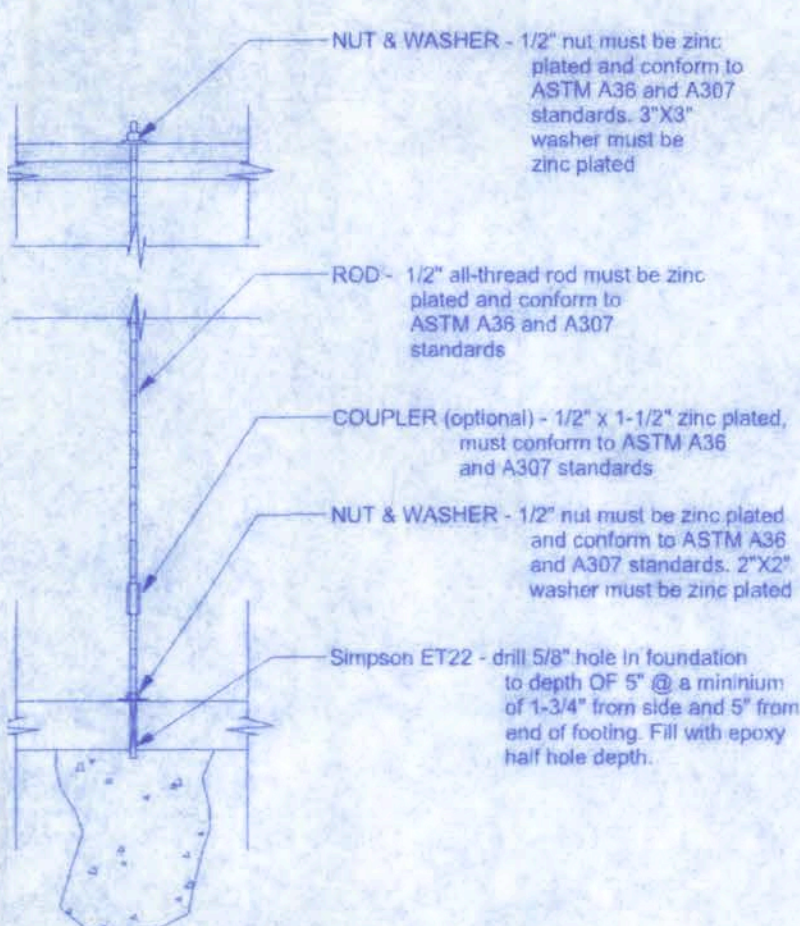
Placement at slab level:

- Corners**
When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.
- Header ends**
When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.
- Top Connections**
Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.
- Intermediate Coupler Connections**
When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.
- Retro-fits**
In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.
- Sole plate to slab connection:**
The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.
- System Tightening:**
On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 (i.e. FOR 8'-0" WALLS - (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

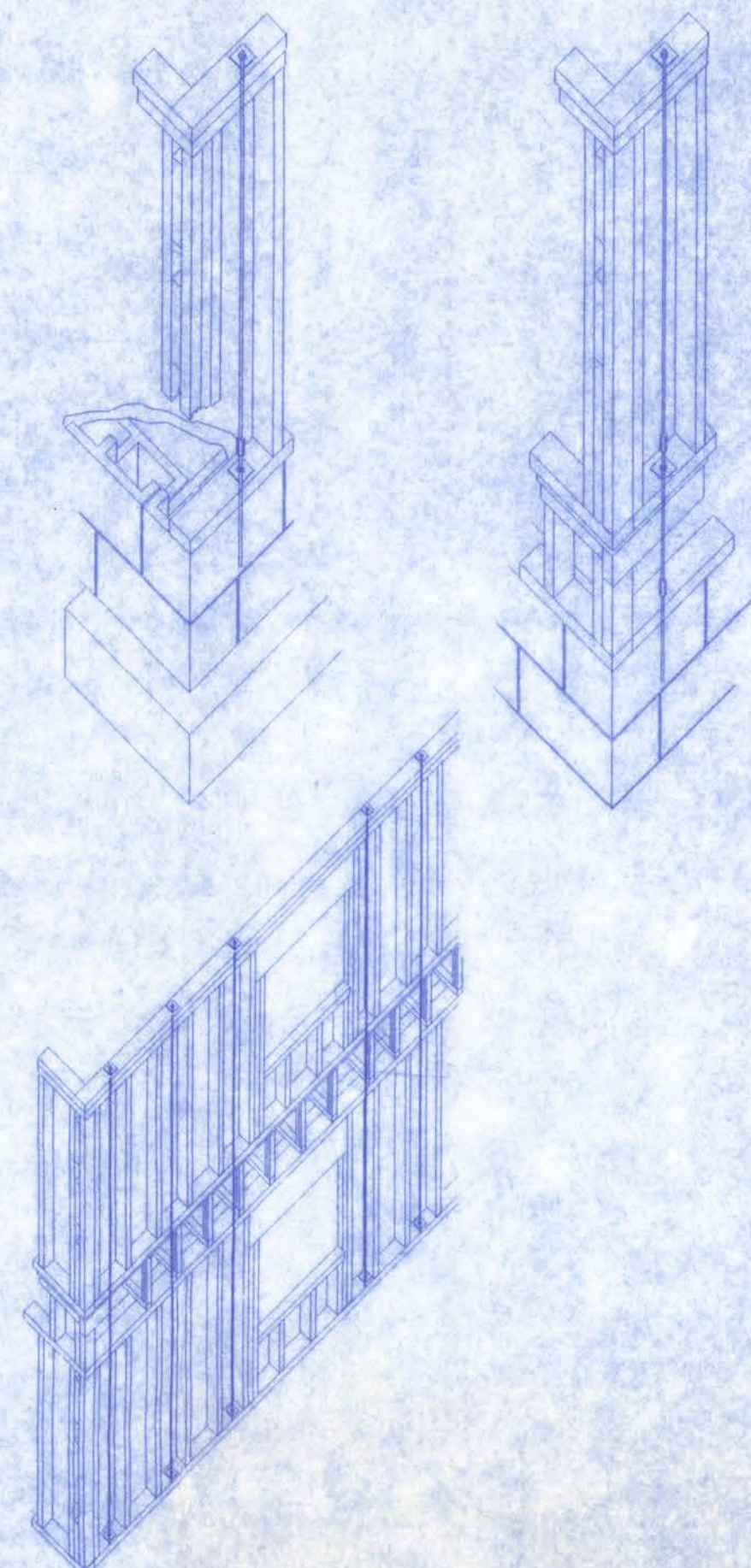


GIRDER COLUMN DETAIL
SCALE: 1/2" = 1'-0"

OPENING CONNECTION REQUIREMENTS				
CLEAR OPENING WIDTH	HEADER SIZE #2 GRADE OR BETTER	END BEARING	CONNECTOR AT EACH END OF OPENING	ANCHORAGE TO FOUNDATION @ EACH END OF OPENING
0' - 3'	(2) 2x8	1.5"	N/A	N/A
>3' - 6'	(2) 2x10	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>6' - 9'	(2) 2x12	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>9' - 12'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>12' - 15'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>15' - 18'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	4.5"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD

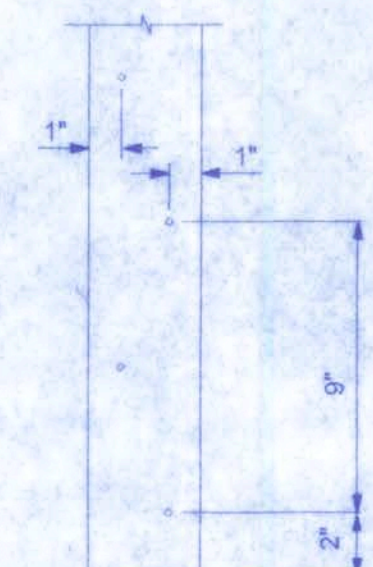
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

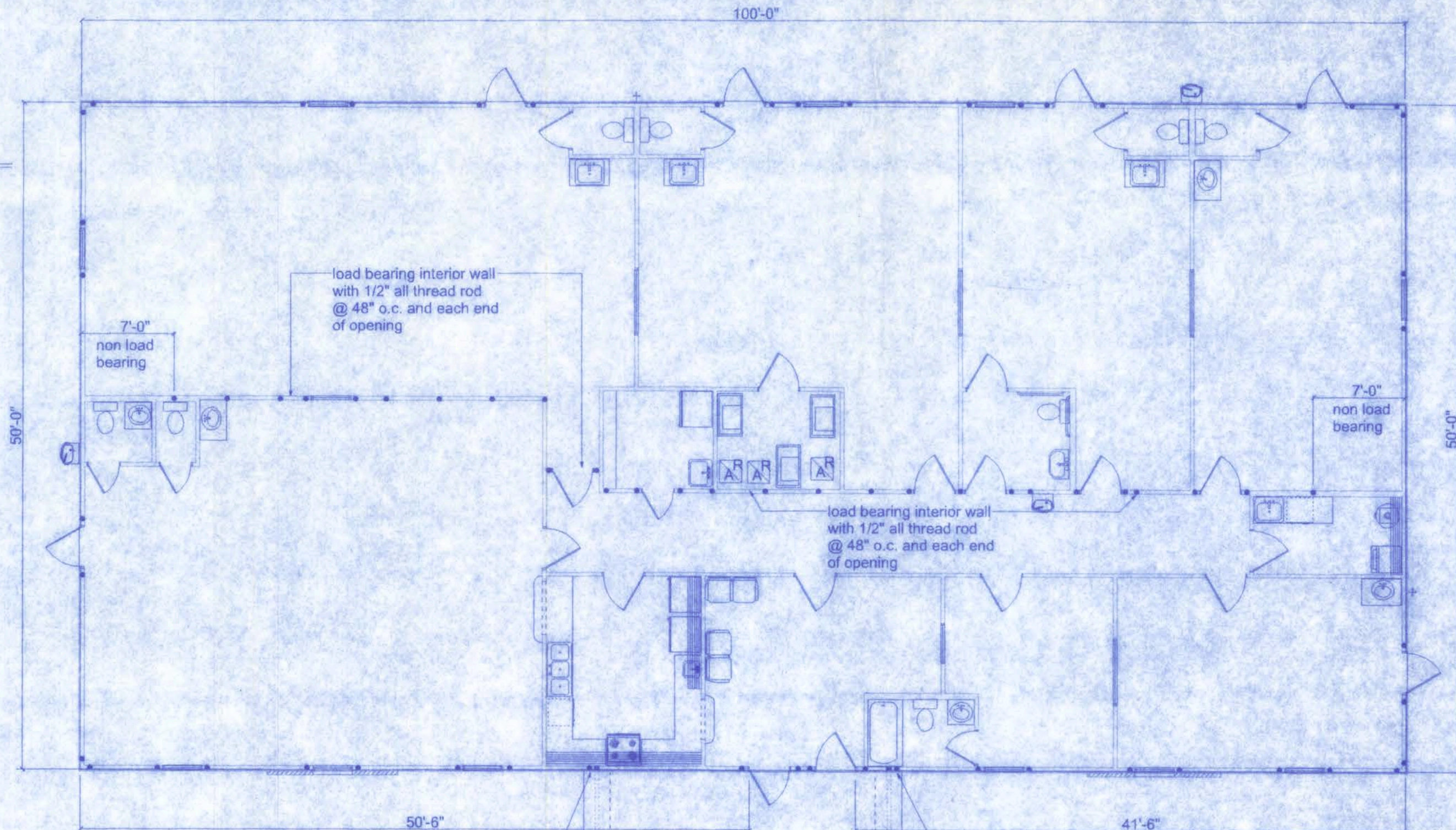


ALL THREAD @ PORTE-CO NTS

NOTE:
A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



GIRDER COLUMN DETAIL
SCALE: 1/2" = 1'-0"

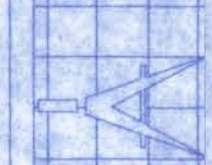


SHEARWALL LAYOUT
SCALE: 1/8" = 1'-0"

W.H.F.
5/19/09
P.E. #50001

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4209



Freeman
Design Group, Inc.

DATE: 6/3/09
DRAWN BY: W.H.F.
APPROVED: W.H.F.

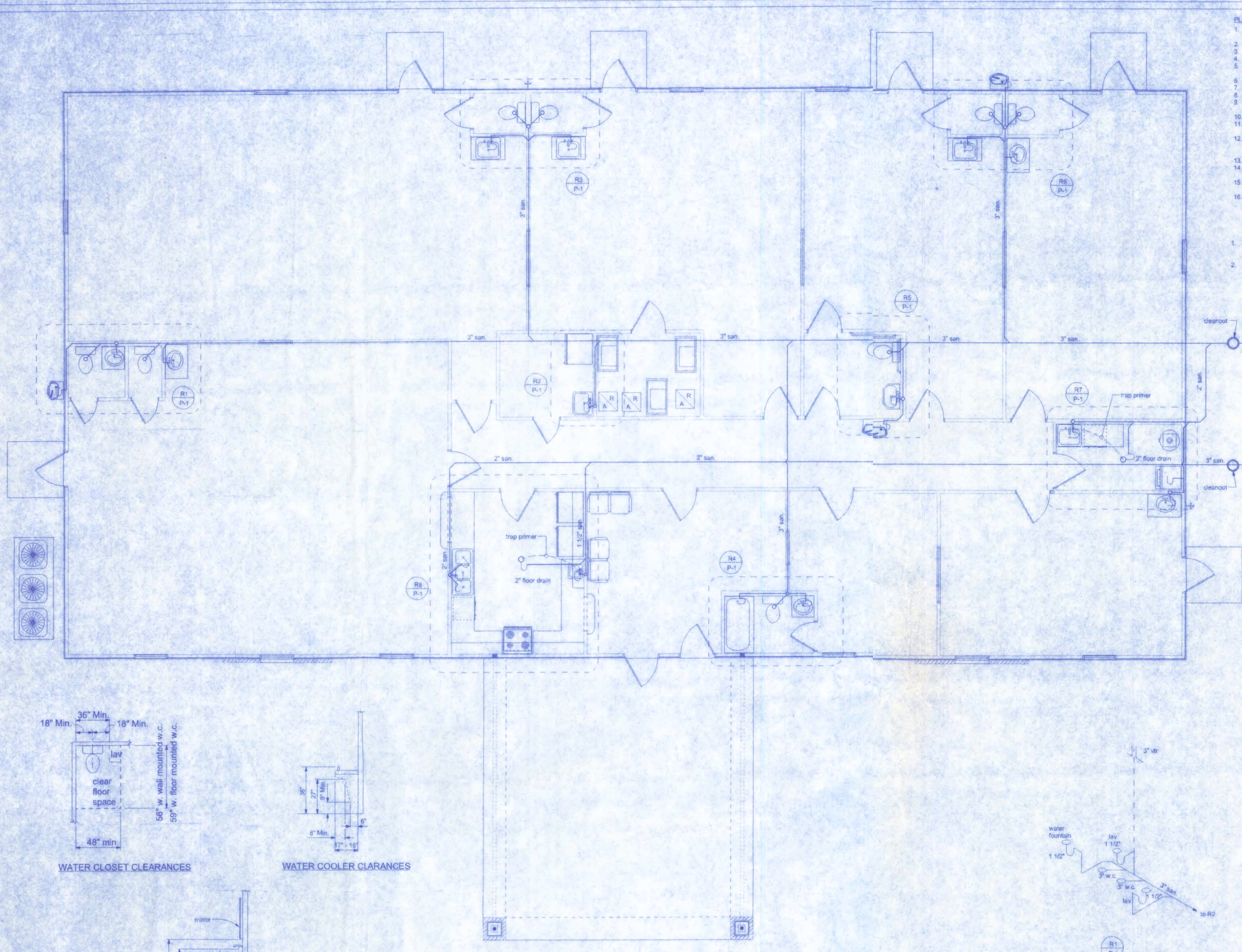
REVISION:

SHEET: A-11

OF: 11

PROJECT NO.: 09.C001

CERTIFICATE OF AUTHORIZATION # 00080701



- PLUMBING NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD BUILDING CODE AND LOCAL REGULATION.
 2. ALL PLUMBING SHALL BE BID AS SPECIFIED OR OF EQUAL VALUE.
 3. PROVIDE COLD WATER TO ALL PLUMBING FIXTURES AND HOT WATER TO ALL LAVATORIES.
 4. PROVIDE DRAIN TO WATER HEATERS.
 5. PROVIDE A SLOPE ON ALL WASTE LINES OF 1/8" PER FOOT OF RUN (MINIMUM), UNLESS OTHERWISE NOTED ON THE PLANS.
 6. ALL WASTE LINES SHALL BE PVC DWV.
 7. ALL WATER LINES SHALL BE CPVC PIPE AND FITTINGS.
 8. INSTALL AIR CHAMBERS AS NEEDED.
 9. WATER SERVICE SHALL BE SCH. 40 PVC 1 1/4" OR AS NECESSARY TO PROVIDE NECESSARY WATER PRESSURE FOR PLUMBING FIXTURES TO WORK PROPERLY.
 10. ALL ROOF FLASHING SHALL BE GALVANIZED WITH NEOPRENE COLLARS.
 11. ALL WATER PIPES, WHEN PASSING THROUGH MASONRY WALL OR CONCRETE SHALL HAVE PROTECTIVE SLEEVES.
 12. PROVIDE PIPE SLEEVES OR CONCRETE RELIEVING ARCH AT ALL LOCATIONS WHERE SANITARY PIPES PASS UNDER OR THROUGH CONCRETE FOOTINGS OR FOUNDATION ALL IN ACCORDANCE WITH THE STANDARD PLUMBING CODE.
 13. ALL PVC PIPE SHALL BE SCHEDULE 40.
 14. SPECIFY IN BID HOW MANY FEET OF SEWER AND WATER PIPE IS INCLUDED IN BID. SPECIFY PRICE PER FOOT FOR ADDITIONAL SEWER AND WATER PIPE.
 15. ALL PLUMBING FIXTURES AND LABOR SHALL HAVE A STANDARD ONE YEAR WARRANTY FROM ISSUANCE OF CERTIFICATE OF OCCUPANTS.
 16. ANY CHANGES TO THE PLUMBING THAT WILL RESULT IN PRICE INCREASE OR DECREASE SHALL NOT BE DONE UNTIL A WRITTEN CHANGE ORDER IS IN PLACE.

- NOTES:**
1. THE SUCCESSFUL PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IF DIFFERENT FROM PLANS, AND CUT SHEETS ON ALL FIXTURES AND FAUCETS TO BE USED.
 2. ALL PLUMBING SHALL BE BID AS SPECIFIED OR OF EQUAL VALUE.

NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR. SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - 2A. LIFT SHALL BE COMPACTED TO 95% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

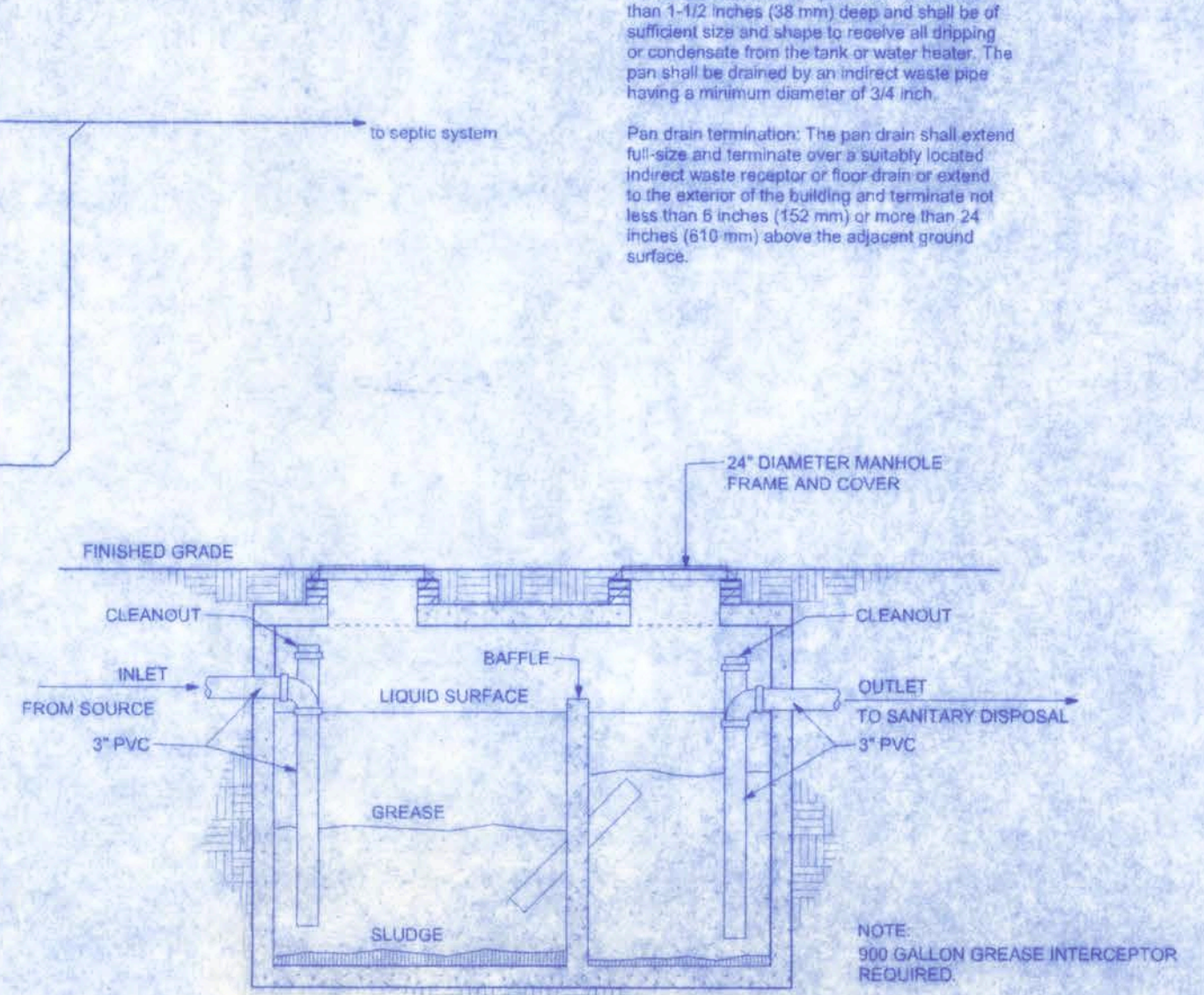
NOTE:
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS. PRIME EACH F.D. INDIVIDUALLY. DO NOT MANIFOLD.

NOTE:
PROVIDE PLUMBING CLEAN-OUTS AT THE BASE OF ALL STACKS, A MAXIMUM OF 75' O.C. ALONG ALL MAIN DRAIN RUNS AND THE UP-STREAM ENDS OF MAIN DRAIN RUNS, WHERE THE MAIN BUILDING DRAIN EXITS THE BUILDING AND AT 75' INTERVALS TO THE DISPOSAL SITE.

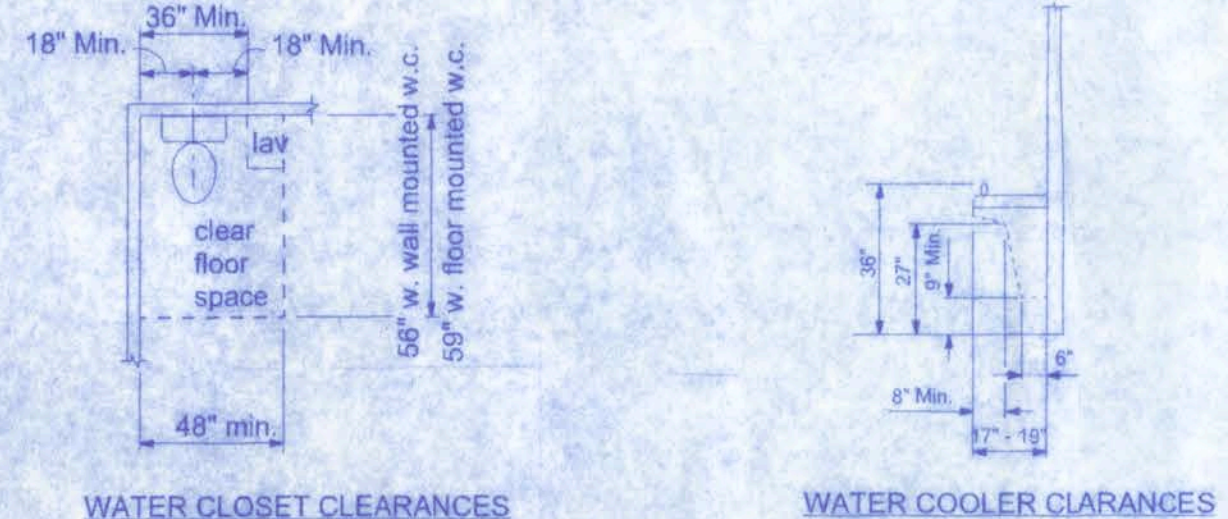
NOTE:
Where water heaters or hot water storage tanks are installed above the ground floor slab, or in attics or ceiling areas, the tank or water heater shall be installed in a galvanized steel or other metal pan of equal corrosion resistance having a minimum thickness of 24 gage, 0.0276 inch (0.70 mm). Electric water heaters shall be installed in a metal pan as herein required or in a high-impact plastic pan of at least 0.0625 inch (1.59 mm) thickness.

Pan size and drain: The pan shall not be less than 1-1/2 inches (38 mm) deep and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 3/4 inch.

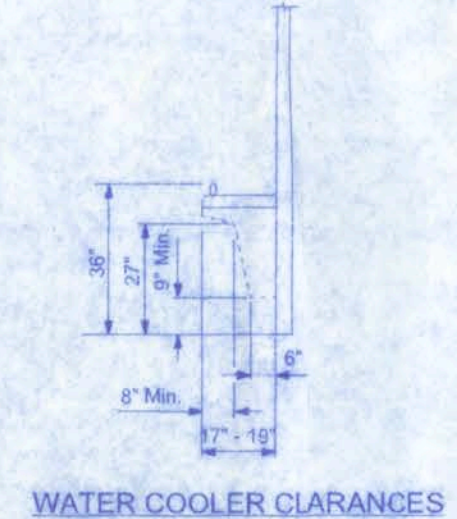
Pan drain termination: The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor or floor drain or extend to the exterior of the building and terminate not less than 6 inches (152 mm) or more than 24 inches (610 mm) above the adjacent ground surface.



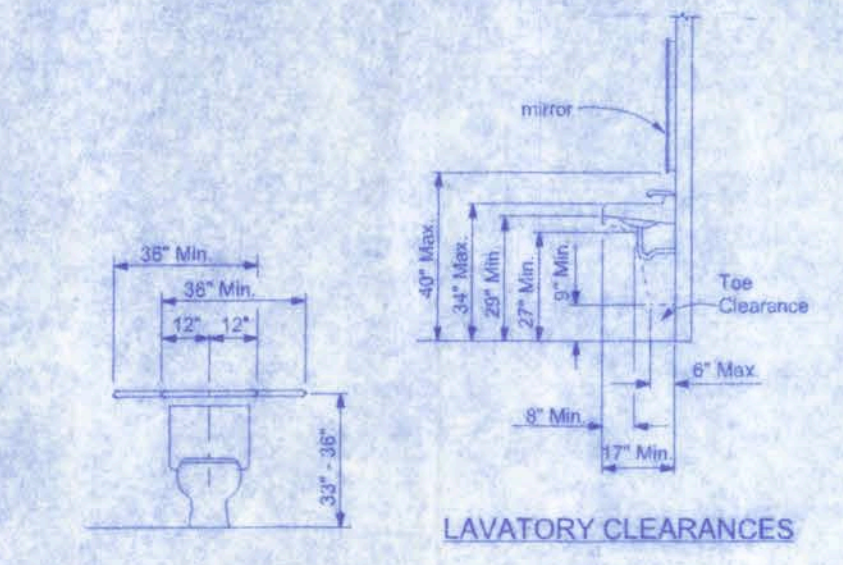
GREASE INTERCEPTOR DETAIL
SCALE: 1/2" = 1'-0"



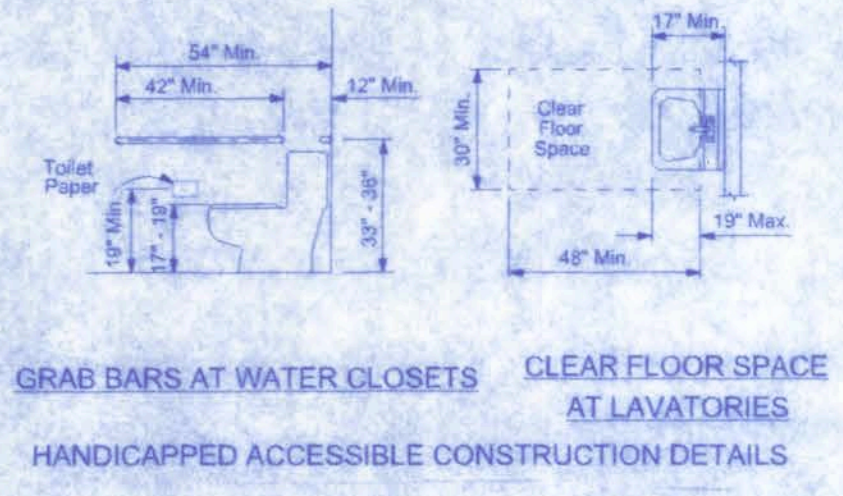
WATER CLOSET CLEARANCES



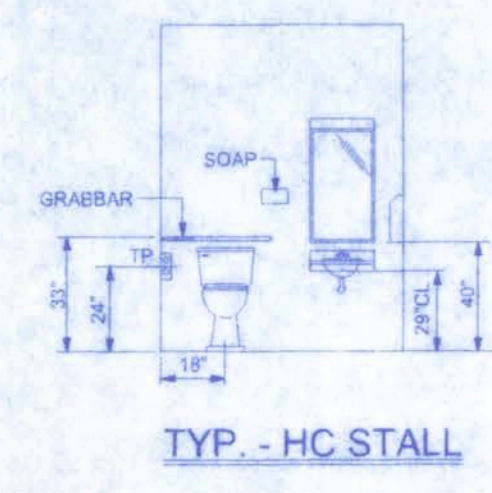
WATER COOLER CLEARANCES



LAVATORY CLEARANCES

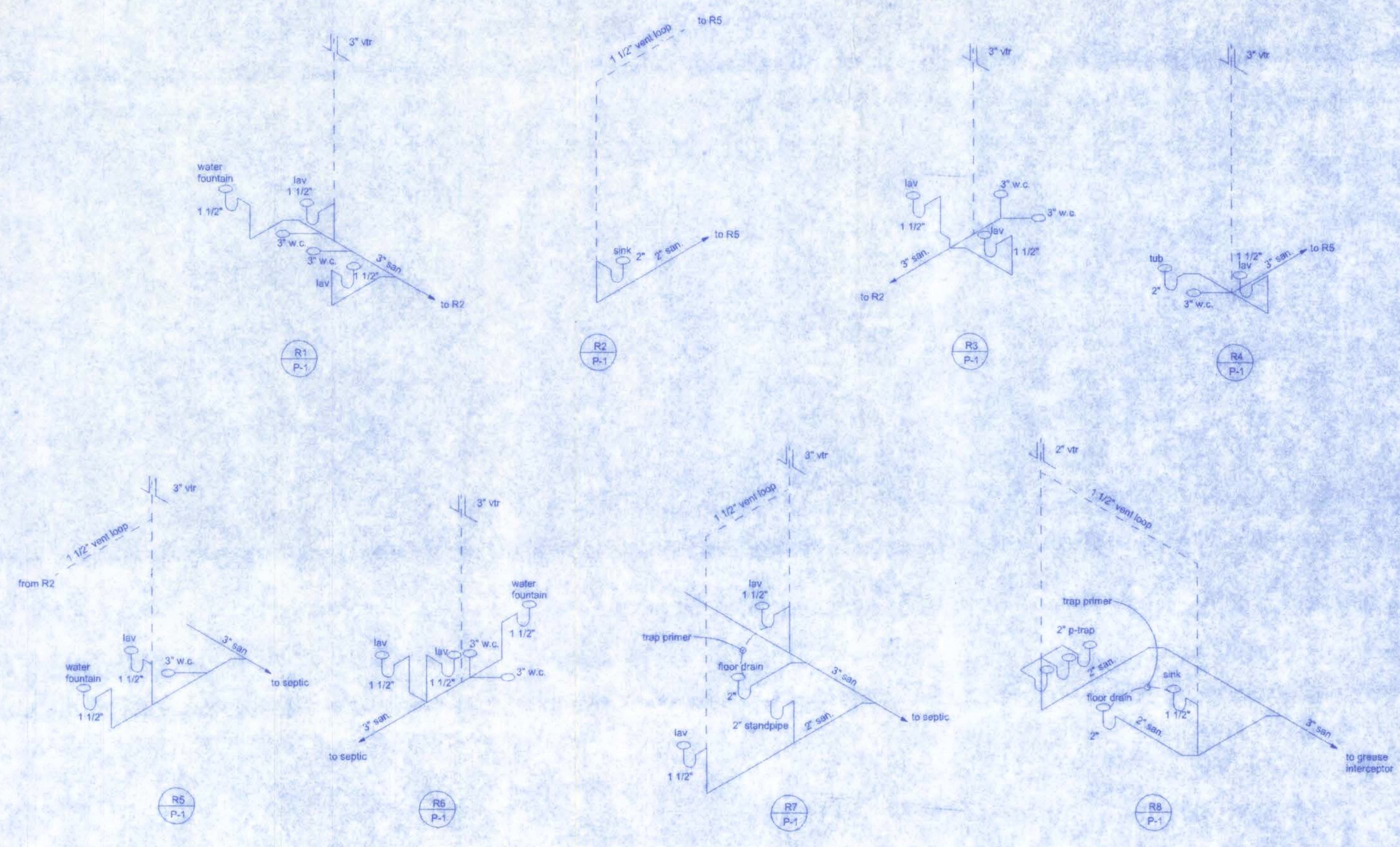


GRAB BARS AT WATER CLOSETS **CLEAR FLOOR SPACE AT LAVATORIES**
HANDICAPPED ACCESSIBLE CONSTRUCTION DETAILS



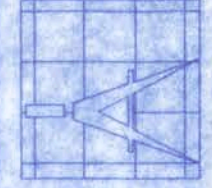
TYP. - HC STALL

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



CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386)758-4209



Freeman
Design Group

DATE: 6/3/09
DRAWN BY: V.H.F.
APPROVED: V.H.F.

REVISIONS

SHEET: P-1
OF: 1

PROJECT NO.: 09.C007

CERTIFICATE OF AUTHORIZATION # 00069701

NOTE:

FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE

NOTE:

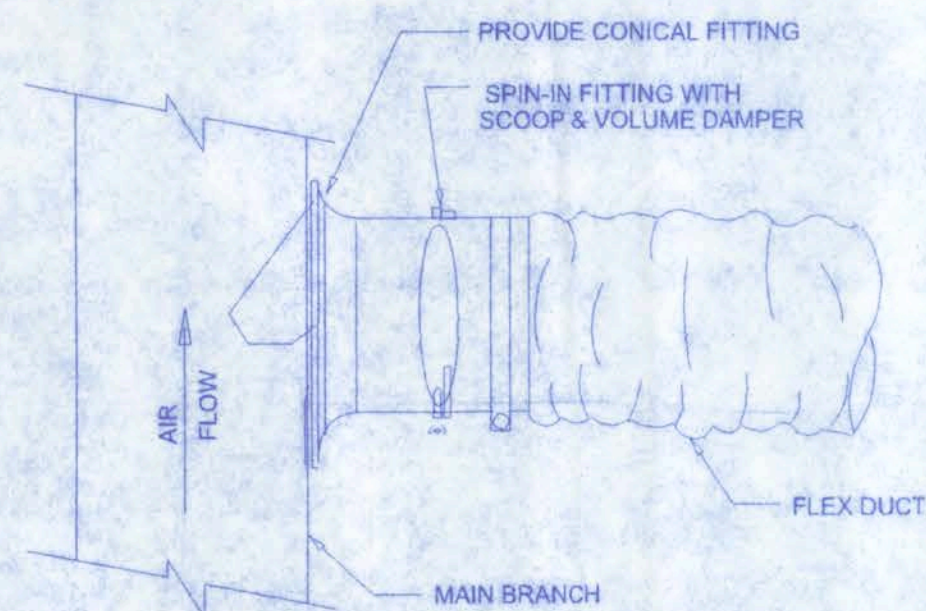
FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE
2. DUCTS PENETRATING SHIRT WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE

HVAC NOTES

- SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES.
- HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
- HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED) OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
- HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
- IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
- FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1/4" LB. DENSITY FIBERGLASS INSULATION AND SHALL BE U.L. LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1/4" L. FOLDED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOLDED, R4 3/8" DUCT BOARD.
- ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
- ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIR, VALORHART, HART & COOLE OR AS DIRECTED BY THE OWNER.
- IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
- HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
- ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSION.
- ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSORS SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
- ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDRANCE TO COMPLETION OF THE JOB.
- CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMALIC INSULATION.
- FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT RESISTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 PROVIDE 3 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
- HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
- COORDINATE W/ THE ELECTRICIAN TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

NOTE:
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

NOTE:
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.



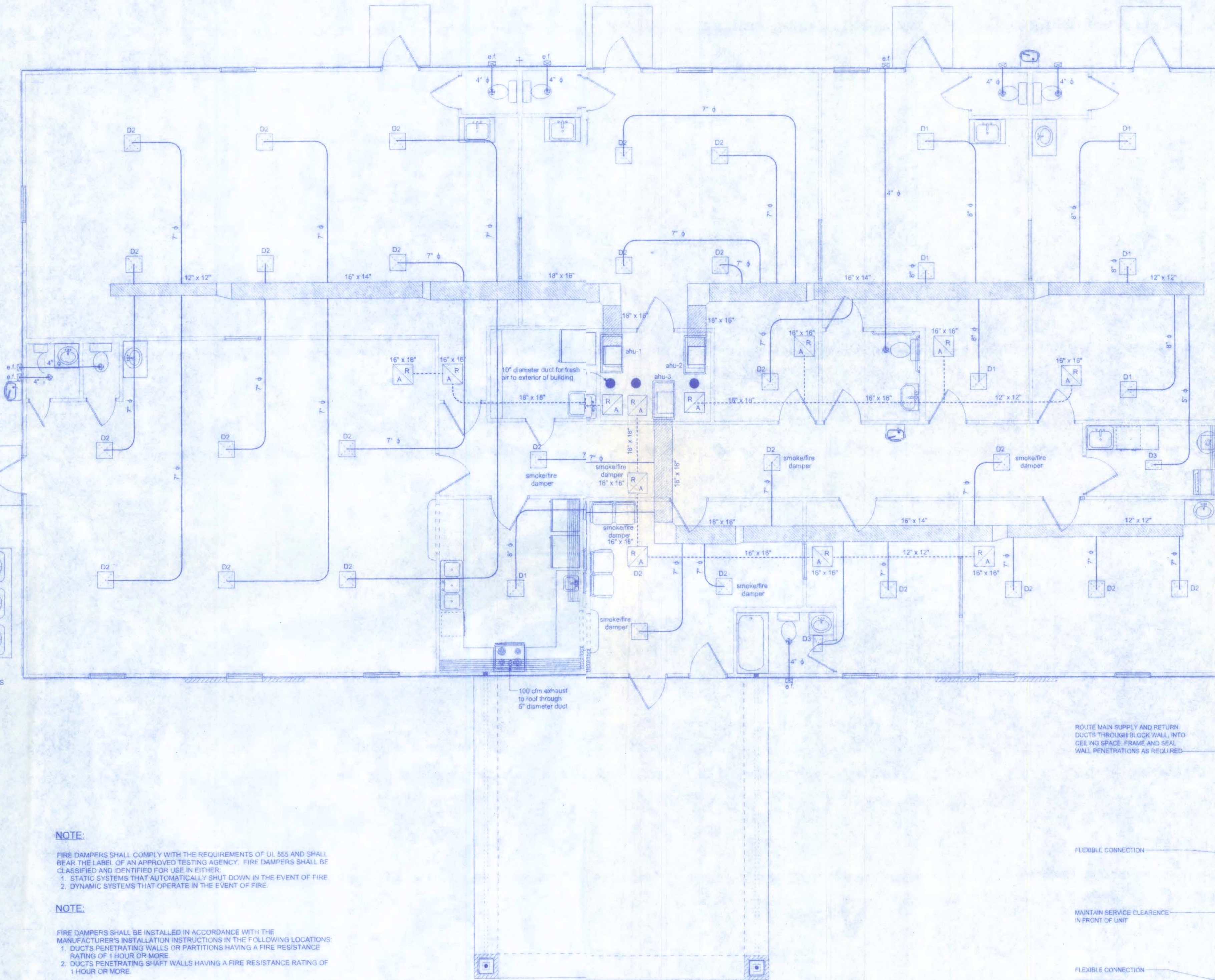
SPIN-IN COLLAR FITTING DETAIL
NOT TO SCALE

NOTE:

FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE

NOTE:

FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE
2. DUCTS PENETRATING SHIRT WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE



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

DIFFUSER SCHEDULE				
MM	CFM	SIZE	PATTERN	LOCATION
D1	200	24" x 24"	4W	CLG
D2	160	6" x 12"	3W	CLG
D3	70	4" x 8"	1W	CLG

REQUIRED OUTDOOR VENTILATION AIR TABLES 403.3, FLORIDA MECHANICAL CODE, 2007 ED.		
BUILDING GROUP OCCUPANCY	OCCUPANT LOAD	OUTDOOR AIR (CFM)
Daycare Occupancy		
classrooms	106	15 cfm/ft ²
domestic range		100 cfm
restroom		50 cfm per water closet or urinal
106 x 15 cfm/person = 1,590 cfm		
830 cfm outside air required for each unit		

TRANE - 5 TON SINGLE PHASE SPLIT HVAC SYSTEM OR APPROVED EQUAL

ROUTE MAIN SUPPLY AND RETURN DUCTS THROUGH BLOCK WALL INTO CEILING SPACE, FRAME AND SEAL WALL PENETRATIONS AS REQUIRED.

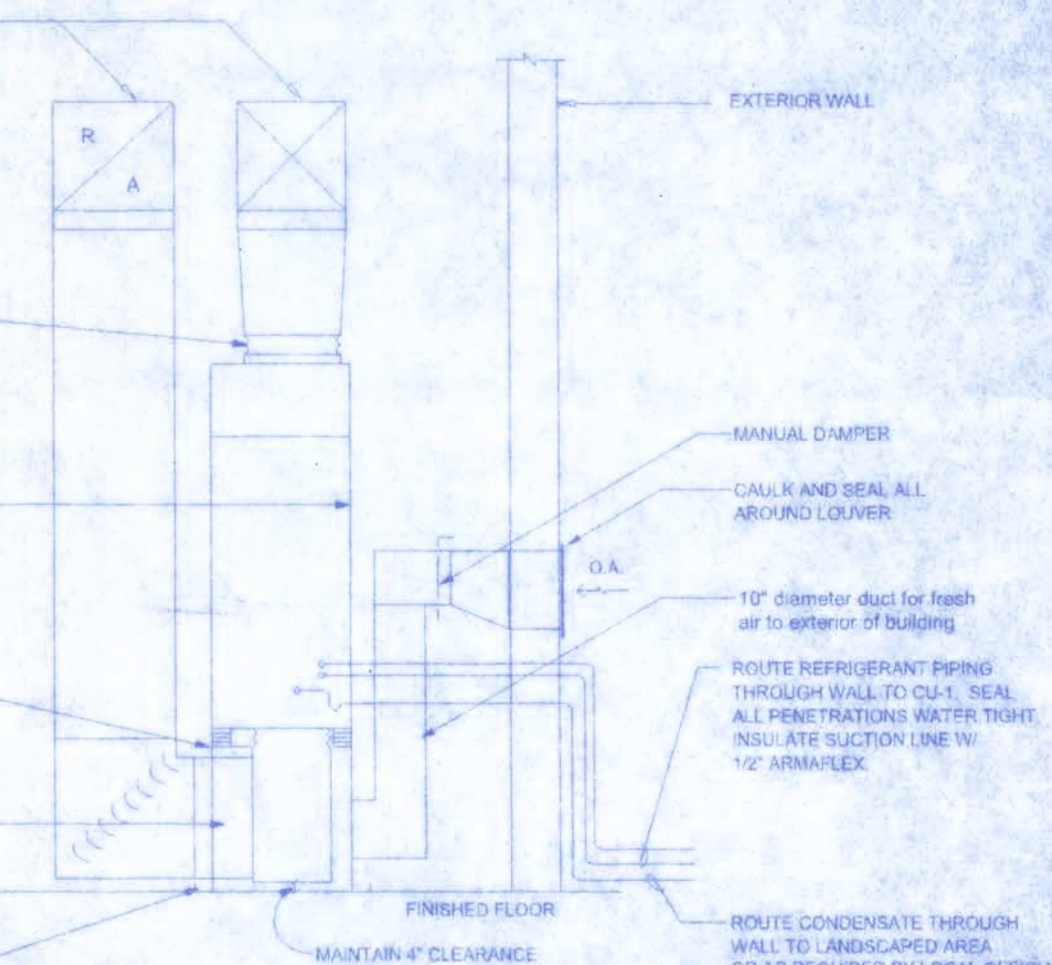
FLEXIBLE CONNECTION

MAINTAIN SERVICE CLEARANCE IN FRONT OF UNIT

FLEXIBLE CONNECTION VIBRATION PADS

NOMINAL 24" HIGH FLOOR STAND 1-1/2" x 1/2" MIN. ANGLE WELDED CONSTRUCTION, SIZE TO CLEAR R/A DUCT.

NOMINAL 3" HIGH DRAIN PAN WITH FLOAT SWITCH. SOLDER ALL SEAMS WATERTIGHT.



A.H.U. MOUNTING DETAIL
NOT TO SCALE

Walter H. Lee
Architect
P.E. # 58001

CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 758-4209

Freeman
Design Group, Inc.

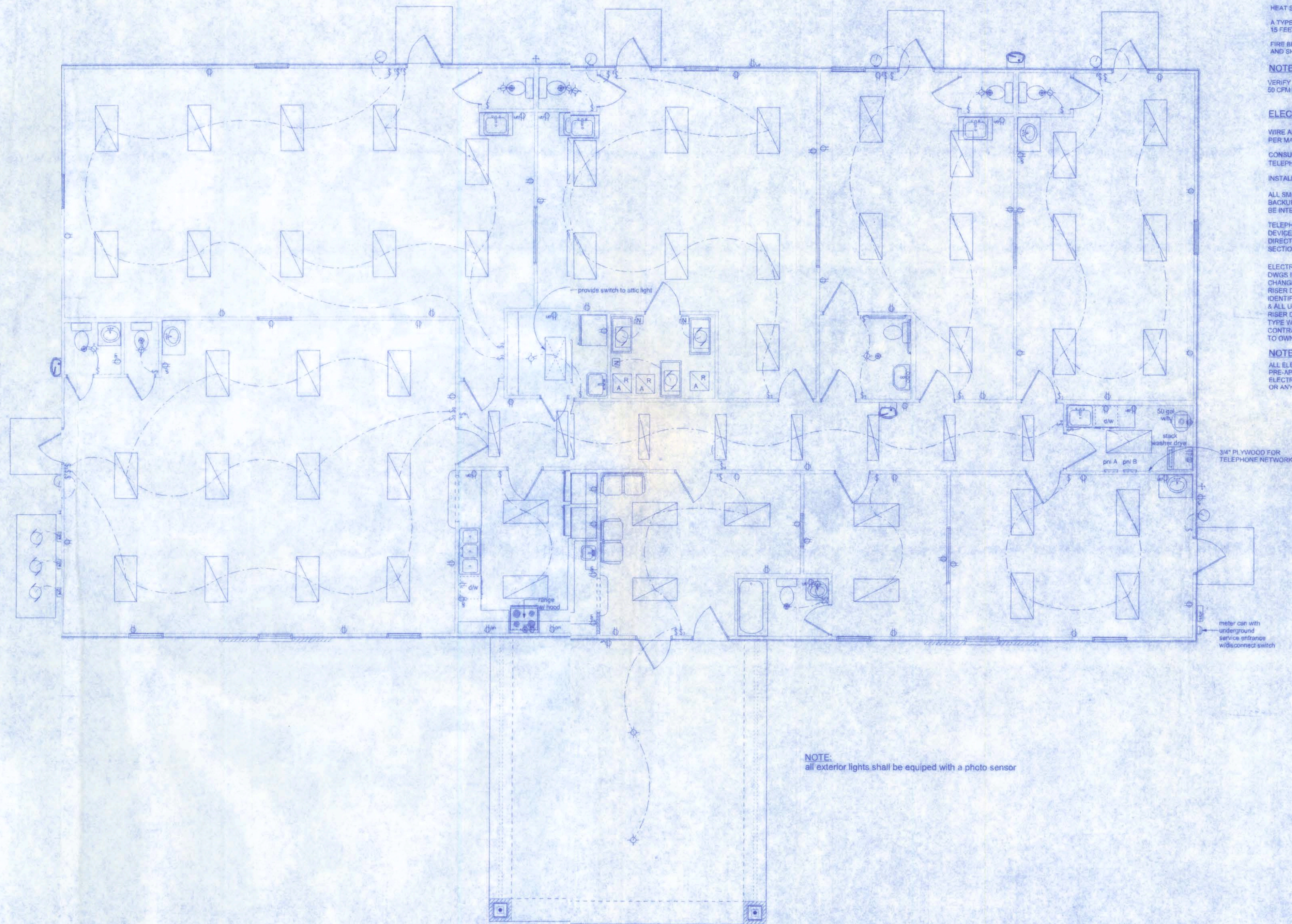
DATE 7/27/09	DRAWN BY V.H.F.
	APPROVED V.H.F.
REVISION:	
SHEET M	PROJECT NO. 09-C007

CERTIFICATE OF AUTHORIZATION # 00003701

ELECTRICAL	SYMBOL
recessed light	○
fluorescent light 1 x 4	▭
fluorescent light 2 x 4	▭
exterior light	⊙
electric motor	⊙
electrical meter	⊙
electrical panel	⊙
emergency light w/ battery backup	⊙
illuminated exit light w/ battery backup	⊙
main distribution panel	⊙
non-fused disconnect	⊙
50 cfm exhaust fan	⊙
cable tv outlet	⊙
incandescent light	⊙
outlet	⊙
outlet 220v	⊙
outlet gfi	⊙
switch	⊙
switch 3 way	⊙
telephone	⊙
weather proof GFI	⊙

NOTE:
ALL RECEPTACLES SHALL BE 18" A.F.F. IN CLASSROOM CORRIDORS AND LOBBY

(3) 5-TON HEAT PUMPS



NOTE:
all exterior lights shall be equipped with a photo sensor

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

LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2005 EDITION.
ACCESS TO EXITS SHALL BE MARKED BY APPROVED, READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND NO SIGN IN EXCESS OF THE MARKED RATING OR INTERNALLY ILLUMINATED SIGNS.
ALL FIRE EXTINGUISHERS SHALL BE TYPE 2A:BC AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 75 FT TO THE FIRE EXTINGUISHER.

NOTE:
ALL RECEPTACLES SHALL BE 80" A.F.F. EXCEPT IN KITCHEN AND OFFICE.
SMOKE DETECTORS SHALL BE LOCATED EVERY 10' IN HALLWAYS AND IN KITCHEN.
HEAT SENSORS SHALL BE LOCATED IN KITCHEN AND IN A/C CLOSETS.
A TYPE 20ABC FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 15 FEET OF RANGE IN KITCHEN.
FIRE BELLS SHALL BE LOCATED ON OPPOSITE ENDS OF ALL ROOMS AND SHALL BE ACCESSIBLE.
NOTE:
VERIFY LOCATIONS OF CHANGING TABLES AND LOCATE 50 CFM EXHAUST FAN IN THE VICINITY.

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
INSTALLATION SHALL BE PER NATL. ELECTRIC CODE.
ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER.
TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC LATEST EDITION.
ELECTRICAL CONTR. SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT NO., DESCRIPTION & BRKR, SERVICE ENT. A ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPES & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.
NOTE:
ALL ELECTRICAL FIXTURES (LIGHTS, OUTLETS, ETC.) SHALL BE PRE-APPROVED BY OWNER PRIOR TO ANY INSTALLATION BY ELECTRICAL CONTRACTOR OR BY THE GENERAL CONTRACTOR OR ANY SUB-CONTRACTORS.

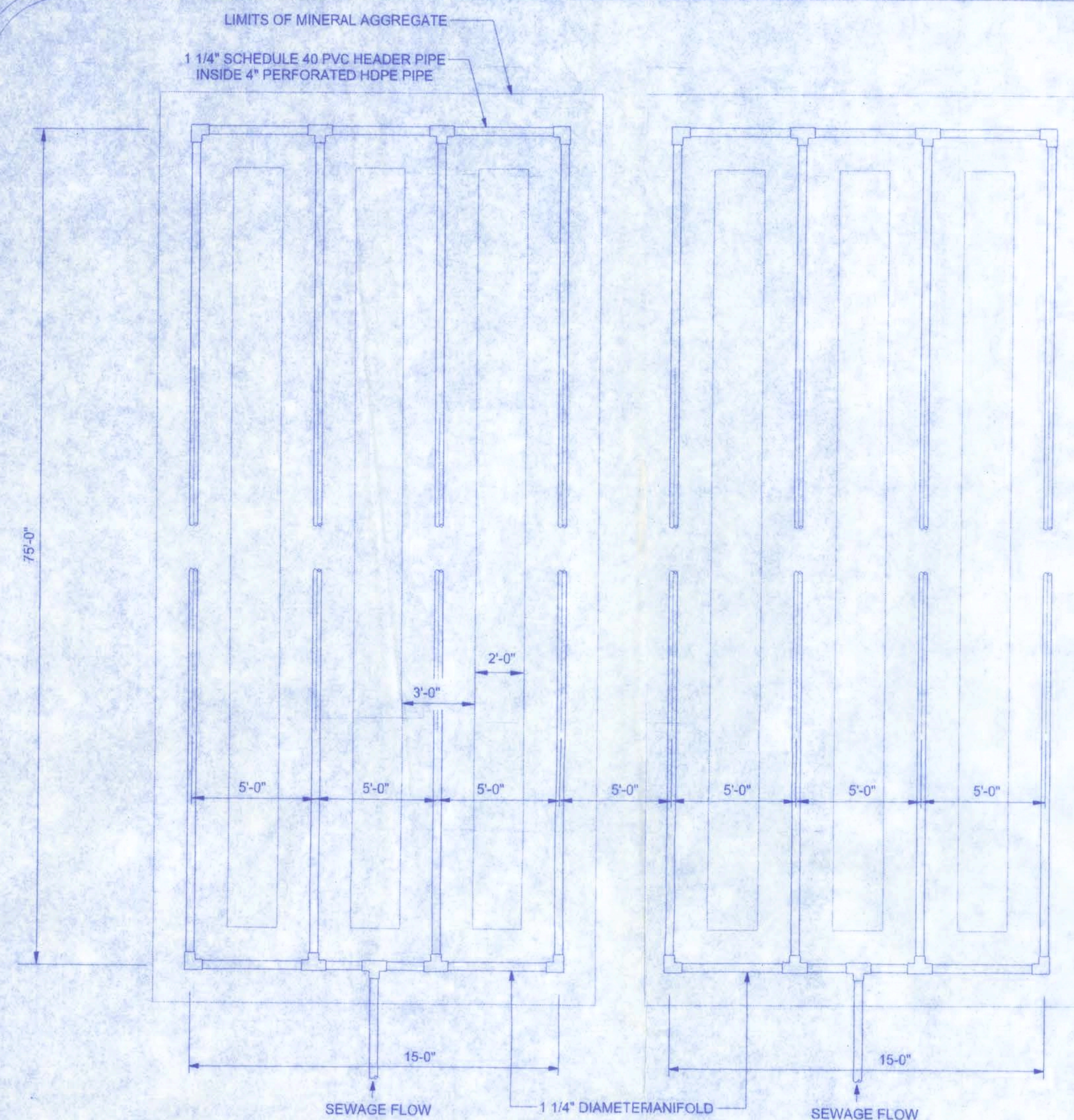


128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 558-4209

CERTIFICATE OF AUTHORIZATION # 00000701

DATE 6/3/09	DRAWN BY W.H.F.
	APPROVED W.H.F.
REVISIONS	
SHEET OF	E-1 2
PROJECT NO. 01-C007	

CASTLE HILL ACADEMY



TYPICAL DRAINFIELD
NTS

NOTES:

HEADER PIPE SHALL BE CONSTRUCTED OF PVC SCHEDULE 40 PIPE AND SHALL HAVE A MINIMUM INSIDE DIAMETER OF 1 1/4"

MINERAL AGGREGATE SHALL CONFORM WITH ASTM C33-86 OR LIGHTWEIGHT AGGREGATE CONFORMING TO ASTM C330-87 MEETING FDOT SPECIFICATIONS UNDER SECTION 901 "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"

THE DRAINFIELD SHALL BE PROTECTED FROM INFILTRATION OF EARTH BACKFILL BY A BARRIER OF POLYESTER FILLAMENT. THE BARRIER SHALL BE PLACED ON TOP OF THE DRAINFIELD ONLY

GREASE INTERCEPTOR CALCULATIONS

(M) x (GM) x (LF) = Effective capacity in gallons
(M) = Meals prepared per day
(GM) = Gallons of waste water per meal (5 gallons)
LF = Loading Factor (Use 1.00 with dishwasher 0.75 without)
180 x 5 x 1.00 = 900 gallons
Use 900 gallon grease interceptor

SEWAGE CALCULATIONS

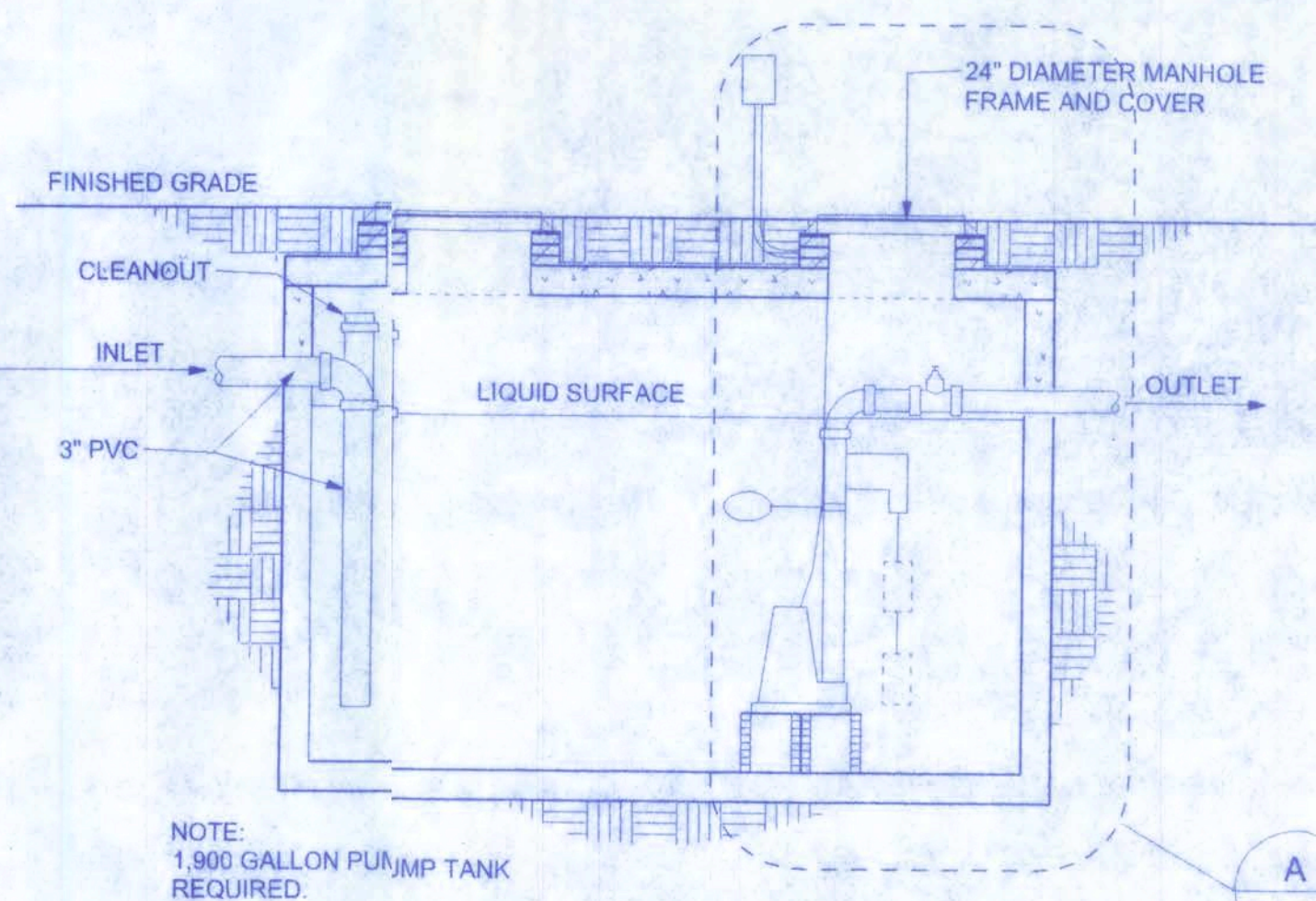
96 children with cafeteria @ 14 gpd = 1,344 gpd		
6 full time employees @ 15 gpd = 90 gpd		
total estimated sewage = 1,434 gpd		
ESTIMATED TOTAL SEWAGE	1,434	GPD
FACTOR OF SAFETY	0.8	
DRAINFIELD AREA REQ'D.	1,792.5	SQ. FT.
LINEAR FEET OF LATERAL	597.5	LF
NUMBER OF LATERALS	8	EACH
LATERAL LENGTH	75	LF
SEPTIC TANK CAPACITY	2,700	GAL
DOSING TANK CAPACITY	1,900	GAL

PUMP SPECIFICATIONS

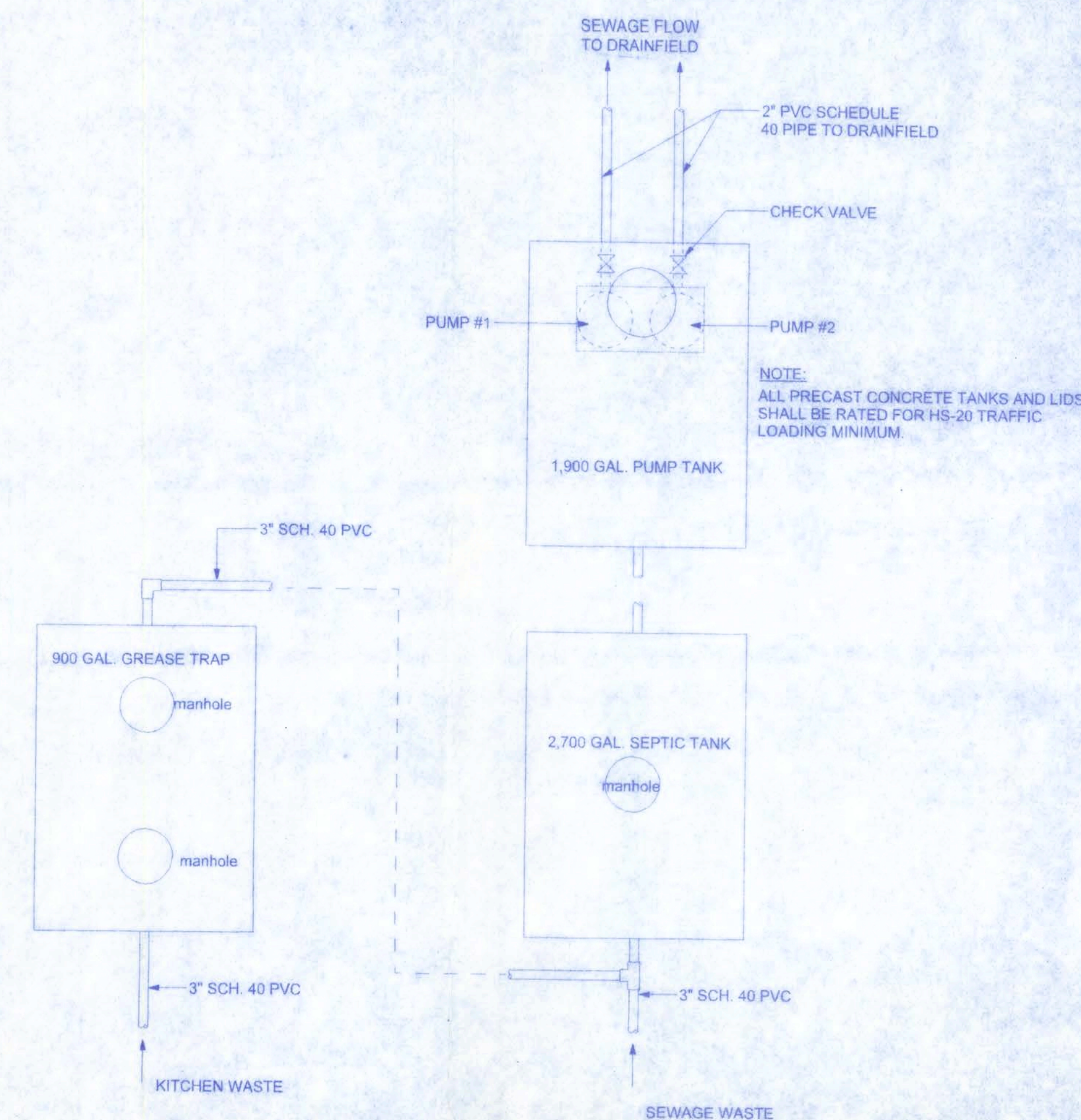
CAPACITIES TO	31 GPM
HEADS TO	23 FT
SOLIDS HANDLING CAP.	1/2"
MOTOR	1/3 HP SHADED POLE 1550 RPM
ELECTRICAL	115V, 8.5 AMPS SINGLE PHASE, 60 Hz
MIN. SUMP DIAMETER	12"

SYSTEM REQUIREMENTS PER PUMP (2 REQ'D.)

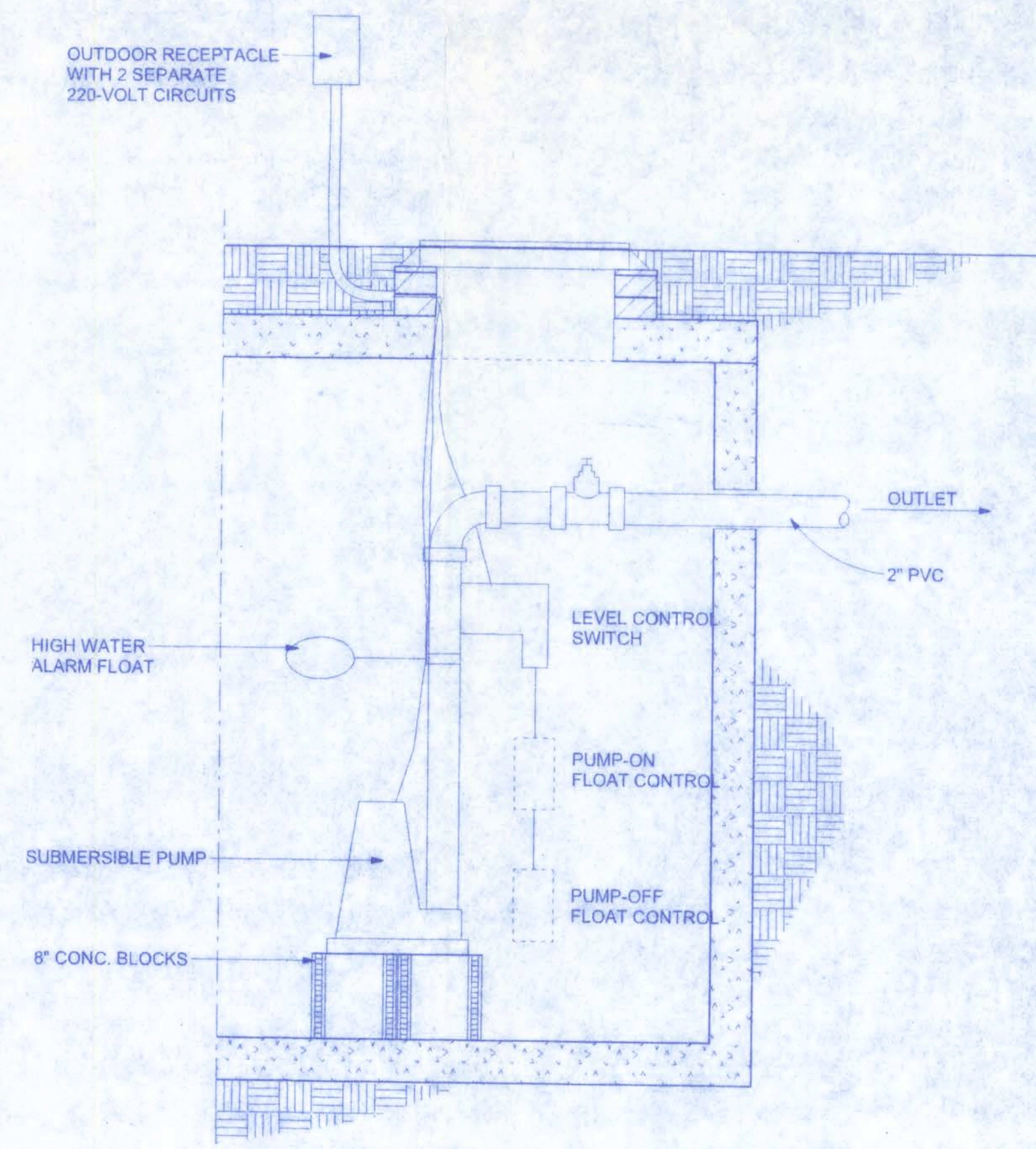
Daily waste flow	1,793 gpd
Septic Tank size	2,700 gal
Pumping Tank size	1,900 gal
Effluent loading rate	0.8 gal/ft^2/day
Absorption area	1,121 sf
Total length of laterals	300 ft
Lateral diameter	1 1/4 inch
Lateral configuration	4 x 75 ft lines
Supply line length	50 ft
Supply line diameter	2 inch
Manifold placement	end
Hole size	5/32 inch
Hole Spacing	5 ft
Number of Holes	52
Pressure Head	3 ft
Total Head	10.02 ft
Pump Requirements	26.0 gpm 10.02 ft of head
Storage Volume in laterals	19.2 gal
Storage Volume in supply line	8.1 gal
Total Storage Volume	27.3 gal
Dosing Volume	146 gal
Dosing Depth	1.10 ft
Check Valve needed?	yes



PUMP TANK SECTION
NTS



PUMP CHAMBER DETAIL
NTS



CASTLE HILL ACADEMY

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386) 768-4209

Freeman
Design Group Inc.

DATE: 7/27/08
DRAWN BY: V.H.F.
APPROVED: V.H.F.

REVISIONS:

SHEET: SAN-1

OF: 1

PROJECT NO.: 09.0007

CERTIFICATE OF AUTHORIZATION # 00008701