

2" MIN.
8" MAX.

48"

60" TO CENTER OF SIGN

60"

42"

72"

TACTILE SIGN

BRAILLE LETTERS BELOW

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

TOILET PARTITION

6" MAX.

36" MIN.

60"

33"-36"

18"

42"

2'-8" MIN.

DISPENSER MUST ALLOW CONTINUOUS PAPER FLOW AND MUST NOT CONTROL DELIVERY OF PAPER

54" MIN.

42" MIN.

12" MAX.

36" MAX.

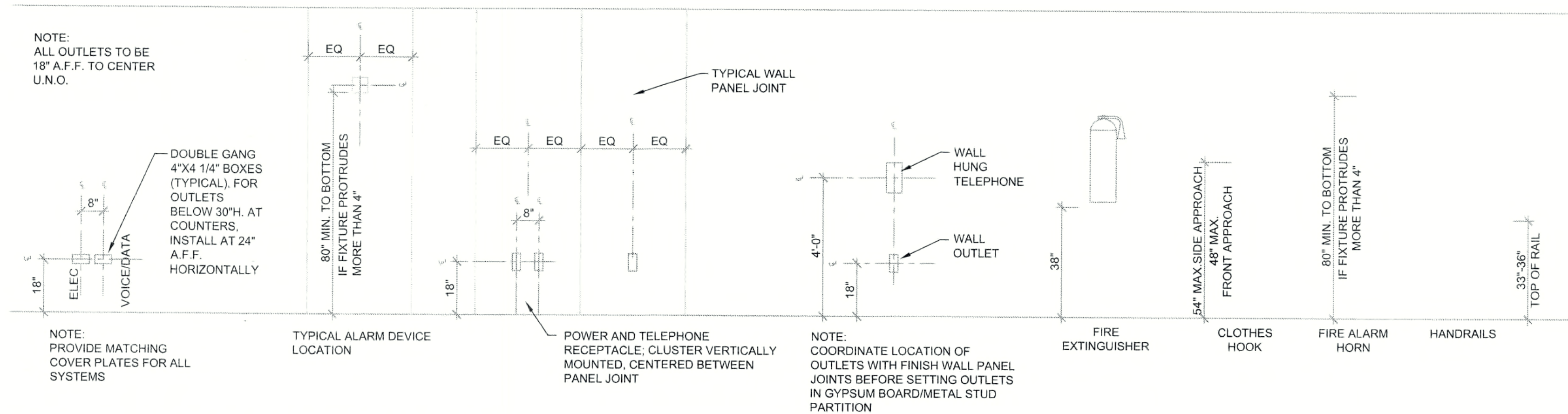
33"-36"

19" MIN. TO CENTER

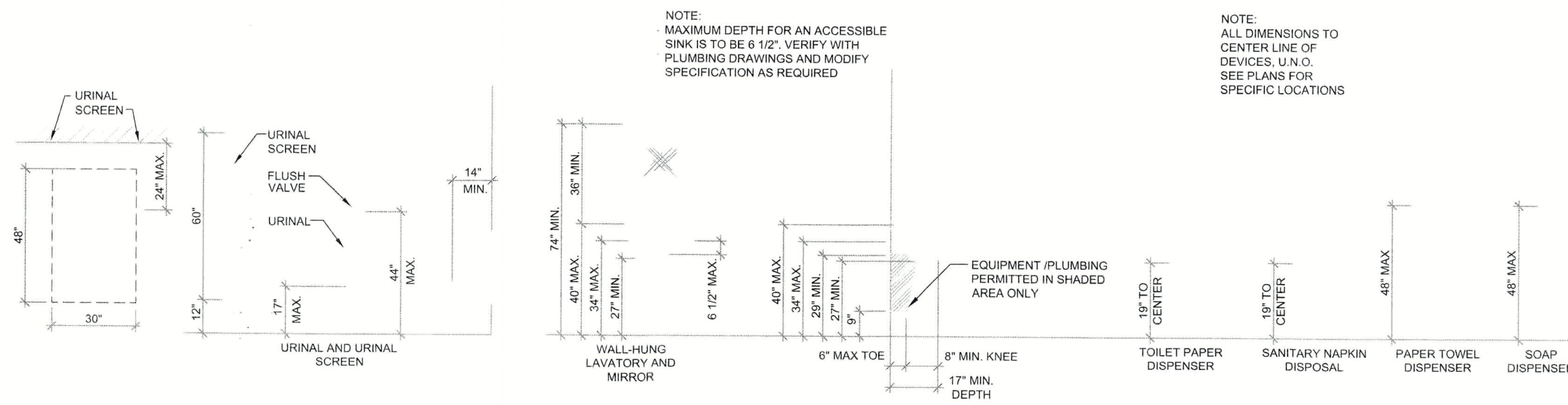
Diagram illustrating the required clearances for a toilet stall:

- TOILET SEAT COVER DISP.**: 36" MIN.
- TOILET PARTITION**: 42" MIN. (X), 12" MAX. (Y), 36" MAX. (Z)
- TOILET PAPER DISPENSE**: 12" MAX.
- GRAB BARS**: 33"-36"
- MOUNT ON WIDE SIDE OF TOILET**: 33"-36" (height), 4" MAX. (width), 17"-19" (depth)
- MIN. TO CENTER**: 18" (width), 19" (height)

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



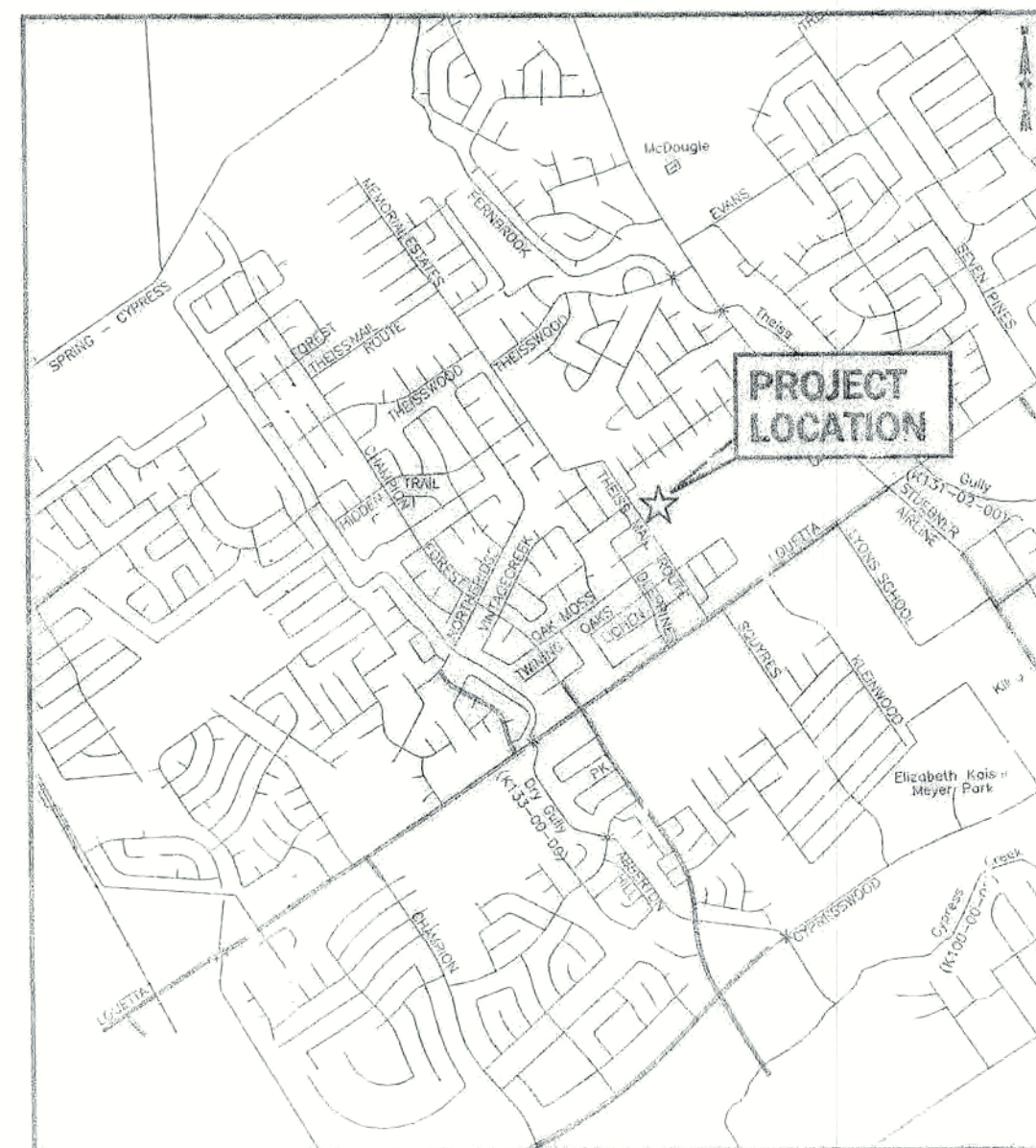
SCALE: 3/8"=1'-0'



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

ABERCROMBIE ACADEMY 17102 THEISS MAIL ROUTE HARRIS COUNTY, TEXAS

PLANS OF PROPOSED EXPANSION DESIGN



KEY MAP No. 330K
AEI JOB No. 322-001-002
JULY 2008

INDEX

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7. MISCELLANEOUS DETAILS
8. STORMWATER POLLUTION PREVENTION PLAN
9. LANDSCAPE PLAN



616 FM 1960 W., SUITE 250 HOUSTON, TEXAS 77090
(281)350-7027 (281) 350-7035 FAX
WWW.AEIENGR.COM



NAME Michael A. Kurzy
DATE 7-3-08

ABERCROMBIE ACADEMY
HARRIS COUNTY, TEXAS
EXPANSION DESIGN
AEI JOB No. 322-001-002

616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77090
(281)350-7027
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1. PAVING
I. DESIGN THICKNESS OF PAVING _____
II. STABILIZED SUBGRADE TO A DEPTH OF _____ psi
III. DESIGN STRENGTH OF CONCRETE _____
IV. TYPE AND PLACEMENT OF STEEL: _____
NOTES:
I - IV TO BE COMPLETED ONLY IF PAVING IS TO BE ACCEPTED BY HARRIS COUNTY

DRIVEWAYS
I. NUMBER OF DRIVEWAY APPROACHES PROPOSED: _____
II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET _____
NOTES:
I - II TO BE COMPLETED ONLY IF PROJECT ENTAILS CONSTRUCTION OF DRIVEWAYS AT TIME OF DEVELOPMENT

FIRE APPARATUS ACCESS ROAD
☒ REQUIRED AND SHOWN ON SHEET(S) 6
☐ NOT REQUIRED DUE TO _____

CURBING
I. ISLANDS AND MEDIANS REQUIRE STANDARD 6" CURBING
II. ☐ STANDARD 6" CURBING PROPOSED
☐ 4" x 12" CURBING PROPOSED
☐ 6" OR 4" x 12" ALLOWED EXCEPT AT MEDIANS AND ISLANDS

TRAFFIC CONSIDERATIONS
I. MEDIAN CUTS
☒ NO MEDIAN CUT OR RELOCATION IS PROPOSED
☐ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET _____
II. LEFT HAND TURN
☒ NO LEFT TURN LANE IS PROPOSED
☐ LEFT TURN LANE IS SHOWN ON SHEET _____
III. TRAFFIC CONTROL PLAN
☒ NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW
☐ TRAFFIC CONTROL SHOWN ON SHEET _____
IV. EXISTING TRAFFIC CONTROL
☐ DEVICES SHOWN ON PLANS (T.C. BOXES AND LOOPS)
NOTES:
I - III TO BE COMPLETED FOR ALL PROJECTS

2. SUBDIVISION DRAINAGE
I. DRAINAGE SYSTEM TYPE
☐ STORM SEWER
☐ ROADSIDE DITCH
II. DESIGN METHOD USED
☐ CITY OF HOUSTON _____ FREQUENCY _____
☐ OTHER _____
III. DRAINAGE SYSTEM OUTFALL
☐ TO DETENTION POND
☐ DETENTION POND MAINTAINED BY _____
☐ TO HCFCO DRAINAGE DITCH UNIT NO. _____
☐ TO HARRIS COUNTY ROADSIDE DITCH
ROAD NAME: _____
☐ STATIC W.S.E. @ OUTFALL IS _____
☐ PROPOSED STORM SEWER IS SUBMERGED.
IV. STORM WATER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
ACTUAL OUTFALL RATE: _____ (CFS)
☐ OTHER: _____
V. DRAINAGE SYSTEM FLOW RATE
FLOW PRIOR TO DETENTION: _____ CFS
FLOW AFTER DETENTION (IF REQUIRED): _____ CFS
NOTES:
I - IV REQUIRED ON ALL SUBDIVISION TYPE PROJECTS INCLUDING MANUFACTURED HOME PARKS.

3. SITE DRAINAGE
(OTHER THAN SUBDIVISION TYPE PROJECTS)
I. PROPOSED DRAINAGE AREA
☐ NEW DEVELOPMENT AREA:
☒ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): 0.0
II. DETENTION VOLUME (DRY BASIN)
NEW AREA 0 x 0.65 = 0 ACRE-FEET
DETENTION REQUIRED
PROPOSED VOLUME = 0 ACRE FEET
III. OUTFALL
OUTFALL TO ☐ ROADSIDE DITCH
☐ STORM SEWER
☐ OTHER _____
STATIC W.S.E. @ OUTFALL IS _____
ROADSIDE DITCH OUTFALL:
ROAD FRONTAGE _____ x 0.0088 = _____ (CFS) ALLOWABLE OUTFALL
PROPOSED OUTFALL RATE: _____
☒ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: 5.20 (CFS)
FROM DRAINAGE AREA MAP DATED: APRIL 2006
PREPARED BY: JONES & CARTER, INC.
ACTUAL OUTFALL RATE: 4.41 (CFS)
IV. PUMPED DETENTION FACILITIES
VOLUME THAT GRAVITY FLOWS: _____ ACRE FEET
VOLUME THAT IS PUMPED: _____ ACRE FEET
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: _____
PUMP SPECIFICATIONS AND OPERATING PLAN APPEAR ON SHEET _____
V. FLOW RESTRICTOR SIZE
OUTFALL PIPE SIZE: _____
RESTRICTOR PIPE SIZE: _____
VI. ☐ PROPOSED STORM SEWER IS SUBMERGED.
NOTES:
I. REQUIRED FOR ALL PROJECTS OTHER THAN SUBDIVISION TYPE PROJECTS. DEVELOPMENT AREA INCLUDES ALL AREA WHERE BUILDING, PAVING OR GRADING WILL OCCUR. AREAS NOT INCLUDED BUT WITHIN THE PROPERTY'S BOUNDARIES MUST BE DELINEATED AS A "NO WORK" AREA ON THE DRAWINGS.
II. - V. REQUIRED WHEN PROPOSED FACILITY WILL INCREASE THE AMOUNT OF RUNOFF INTO A COUNTY DRAINAGE DITCH, ROADSIDE DITCH OR STORM SEWER. IF ANALYZED AND THE RECEIVING DRAINAGE STRUCTURE HAS CAPACITY IN THE FULLY DEVELOPED CONDITION OF THE AREA IT SERVES, NO DETENTION IS REQUIRED.
*CAPACITY ALLOCATED THE SERVED TRACTS IS 11.71. 5.20 CFS ALLOCATED TO PROJECT TRACT.

4. WATER AND WASTEWATER
I. TYPE OF SERVICE PROPOSED
☐ MUNICIPALITY: _____
☒ MUNICIPAL UTILITY DISTRICT: H.C. W.C.I.D. #114
☐ OTHER DISTRICT: _____
☐ PRIVATE WATER AND WASTEWATER SYSTEMS
☐ PRIVATE WATER SYSTEM AND INDIVIDUAL OSSF
☐ INDIVIDUAL WATER WELL AND OSSF
☐ OTHER: _____
☐ NO UTILITIES ARE PROPOSED
II. PROOF OF CAPACITY
☒ LETTER FROM DISTRICT AUTHORIZING SERVICE AND CONNECTION
☐ TCEQ APPROVAL FOR WATER SYSTEM AND PERMIT FOR WASTEWATER SYSTEM.
☐ TCEQ APPROVAL FOR WATER SYSTEM AND OSSF FEASIBILITY REPORT
☐ OSSF FEASIBILITY REPORT WHICH CONSIDERS INDIVIDUAL WELLS
III. AMOUNT OF FLOW
☐ RESIDENTIAL: _____ LOTS OR UNITS
☐ COMMERCIAL: _____ AVERAGE DAILY FLOW
☐ OTHER: _____
NOTES:
I. COMPLETE FOR ALL PROJECTS
II. COMPLETE FOR ALL PROJECTS
III. COMPLETE ONLY IF TCEQ DISCHARGE PERMIT IS PROPOSED

5. DESCRIPTION OF PROPERTY
I. LEGAL DESCRIPTION / PLAT NAME (PROPOSED OR RECORDED):
BING 2.998 ACRES OF LAND IN THE JOHN HOUSE SURVEY, A-314, AND BEING A PORTION OF THAT CERTAIN 6.000 ACRE TRACT DESCRIBED IN DEED RECORDED IN VOLUME 5847, PAGE 196, OF THE DEED RECORDS OF HARRIS COUNTY, TEXAS
☐ NEW PLAT LOCATED IN THESE SURVEYS: _____
☐ REPLAT OF RECORDED SUBDIVISION OR RESERVE KNOWN AS _____
II. ADJACENT ROADS THEISS MAIL ROAD
III. JURISDICTIONS
☐ CITY OF HOUSTON
☐ CITY OF _____
☒ ETJ, CITY OF HOUSTON
☐ UTILITY DISTRICT: _____
☐ OTHER: _____
IV. HCAD ACCOUNT NOS. (ALL)
0421840000147
0421840000149
NOTES:
I. II, III, IV, COMPLETE FOR ALL PROJECTS
II. COMPLETE ONLY IF PROJECT IS LOCATED ADJACENT TO A PUBLIC OR PRIVATE ROAD.

6. STORM WATER QUALITY
I. CONSTRUCTION PROTECTIVE MEASURES.
☒ SWPPP SITE PLAN AND DETAILS ON SHEET(S) 7 & 8
II. APPLICABILITY FOR PERMANENT FEATURES.
☐ EXEMPT NEW DEVELOPMENT OF LESS THAN 5 ACRE PARCEL.
☒ EXEMPT REDEVELOPMENT OF A 5 ACRE OR SMALLER PARCEL WHERE TOTAL IMPERVIOUS SURFACE (EXISTING PLUS PROPOSED) IS LESS THAN 1 ACRE.
☐ EXEMPT "GRAND FATHERED" BY AN EXISTING STORM SEWER LINE.
☐ "STORM WATER QUALITY MANAGEMENT PLAN" HAS BEEN/WILL BE INCLUDED IN A SEPARATE SUBMITTAL ENTITLED _____
☐ "STORM WATER QUALITY MANAGEMENT PLAN" INCLUDED. SWQMP SITE PLAN ON SHEET(S) _____
III. STORM WATER QUALITY FEATURES.
☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☐ HYDRODYNAMIC PIPE SEPARATOR MODEL: _____
☐ OTHER(S): _____
NOTES:
I - II REQUIRED ON ALL PROJECTS, III IF NOT EXEMPT OR "GRANDFATHERED"

9. WHEEL CHAIR RAMPS / SIDEWALK
WHEEL CHAIR RAMPS PROPOSED YES ☒ NO ☐
SIDEWALKS PROPOSED YES ☒ NO ☐
NOTE: IF A MAJOR CATEGORY ON THIS SHEET IS NOT REQUIRED FOR THE PROJECT, "X" THROUGH THAT ENTIRE SECTION. CATEGORY (6) MUST BE COMPLETED.

7. FLOOD CONTROL DISTRICT CRITERIA
I. DETENTION SUMMARY
STORMWATER DETENTION BASIN ROUTING TABLE
DETENTION BASIN DRAINAGE AREA = _____ ACRES
RAINFALL EVENT PROBABILITY PRE-DEVELOPED PEAK RUNOFF (CFS) POST-DEVELOPED PEAK RUNOFF (CFS) DETENTION BASIN PEAK OUTFLOW (CFS) MAXIMUM WATER SURFACE ELEVATION PEAK STORAGE VOLUME (AC-FT) STORAGE RATE (AC-FT PER AC)
10% EXCEEDANCE (10-YEAR) _____
1% EXCEEDANCE (100-YEAR) _____
ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS:
VOLUME OF PUMPED EXCEEDANCE STORAGE VOLUME = _____ AC-FT _____ % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCO CHANNEL = _____ CFS
DRAIN TIME FOR BASIN = _____ HOURS BASED ON _____ HEAD CONDITIONS.
STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE _____
REPORT DATE _____ ENGINEERING FIRM _____
DATE OF ACKNOWLEDGEMENT BY HCFCO OR FLOODPLAIN ADMINISTRATOR _____
STORMWATER DETENTION FOR THE PROPOSED WORK CONTAINED IN THESE PLANS IS PROVIDED BY OTHER PLANS:
PLAN TITLE _____
ENGINEERING FIRM _____ DATE SIGNED BY HCFCO _____
II. HCFCO STANDARD NOTES: SEE SHEET _____ OF THESE PLANS.
III. HCFCO STANDARD DETAILS: SEE SHEET _____ OF THESE PLANS.
IV. REFER TO PLAN SHEETS _____ FOR EXISTING AND PROPOSED RIGHT OF WAY DELINEATION AND COMPLETE RECORDING INFORMATION TO INCLUDE CLERK'S FILE NUMBERS, TYPE OF ESTATE (e.g., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g., COH, HCFCO, PUBLIC, TXDOT, ETC.)
NOTES:
I. COMPLETE ONLY IF HCFCO OR HARRIS COUNTY IS REQUIRING DETENTION.
II. COMPLETE ONLY IF PROJECT HAS WITHIN IT OR IS IMMEDIATELY ADJACENT TO AN EXISTING OR PROPOSED HCFCO MAINTAINED CHANNEL OR DETENTION BASIN.
III. COMPLETE ONLY IF PROJECT INCLUDES NEW OUTFALL, SLOPESIDE INTERCEPTOR OR OTHER RELATED WORK WITHIN AN EXISTING OR PROPOSED HCFCO MAINTAINED CHANNEL OR DETENTION BASIN.
IV. COMPLETE ONLY IF PROJECT HAS WITHIN OR IMMEDIATELY ADJACENT TO AN EXISTING OR PROPOSED PUBLIC DRAINAGE CHANNEL OR DETENTION BASIN.

8. FLOOD PLAIN STATUS
I. GENERAL INFORMATION
FIRM PANEL(S) FOR PROPERTY: 4802870245L
FIRM PANEL(S) DATE: JUNE 16, 2007
STATUS OF PROPERTY ON MAP
☒ LOCATED IN UNSHADED ZONE "X"
☐ ENTIRELY LOCATED IN SHADED AND UNSHADED ZONE "X"
☐ LOCATED PARTIALLY IN ZONE "AE" DELINEATE ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT)
☐ LOCATED ENTIRELY IN ZONE "AE" (INDICATE BASE FLOOD LEVEL ON CONSTRUCTION DRAWINGS)
☐ OTHER _____
☐ SITE REMOVED FROM FLOODPLAIN BY LOMA OR LOMR-F CASE NO. _____
FLOOD HAZARD RECOVERY DATA
☒ FLOOD HAZARD RECOVERY DATA AVAILABLE AND UTILIZED (PROVIDED INFORMATION BASED ON 1973 AND 2001 ADJUSTMENTS).
☐ FLOOD HAZARD RECOVERY DATA NOT AVAILABLE.
ELEVATION INFORMATION
BENCHMARK USED
☒ FEMA RM benchmark
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
☐ OTHER _____
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT FEMA RM 110560, BRASS DISK ON DOWNSTREAM SIDE OF BRIDGE ON LOUETTA OVER DRY GULLY, NAVD88 DATUM, 2001 ADJUSTMENT, ELEVATION = 128.08
II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
☒ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN ZONE "X" (SHADED OR UNSHADED)
☐ PROPERTY LIES PARTIALLY BELOW THE BASE FLOOD LEVEL (MUST BE DELINEATED ON TOPOGRAPHIC SURVEY)
III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL).
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
i.e., BELOW ELEVATION _____ (19 _____ ADJ.) _____ CUBIC YARDS
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
i.e., BELOW ELEVATION _____ (19 _____ ADJ.) _____ CUBIC YARDS
NOTES:
I. COMPLETE FOR ALL PROJECTS
II. COMPLETE ONLY IF PROJECT IS ADJACENT TO 100-YEAR FLOOD PLAIN
IV. ☐ LOMR REQUIRED
VERIFIED BY: BW

HCPID SIGNATURE BLOCK
PROJECT KNOWN AS: ABERCROMBIE ACADEMY
EXPANSION DESIGN
WAS ACCEPTED BY THE FOLLOWING GROUPS FOR THE PURPOSES LISTED BELOW:
ENGINEERING DIVISION
BY [Signature] INTERPOSE NO OBJECTION BW DATE 8-7-08
BY _____ AS TO PAVING AND/OR DRAINAGE ONLY _____ DATE _____
BY _____ AS TO LOCATION OF ITEMS IN COUNTY RIGHT OF WAY _____ DATE _____
BY [Signature] AS TO STORM WATER QUALITY SWQ DATE 25 July 2008
HARRIS COUNTY FLOOD CONTROL DISTRICT
INTERPOSE NO OBJECTION
BY No Review Required DATE 07/15/2008
FOR ITEMS LOCATED OUTSIDE OF HCPID RIGHT-OF-WAY
APPROVED: _____
BY _____ FOR ITEMS LOCATED WITHIN EXISTING HCFCO RIGHT-OF-WAY _____ DATE _____
APPROVED: _____
BY _____ FOR ITEMS LOCATED WITHIN PROPOSED HCFCO RIGHT-OF-WAY _____ DATE _____
ADDITIONAL COMMENTS: _____
THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. THESE SIGNATURES ARE VALID FOR A MAXIMUM OF TWO YEARS.
ENGINEER'S CERTIFICATION
I, MICHAEL A. KURZY, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.
THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 9
81998
MICHAEL A. KURZY
PROFESSIONAL ENGINEER
SIGNATURE [Signature] DATE 7-3-08
REVISIONS
DATE SHEET NO. DESCRIPTION ACKNOWLEDGMENT
ABERCROMBIE ACADEMY
EXPANSION DESIGN
SHEET NUMBER
REQUEST NO. 1018161 APPLICANT NO. 2 OF 9

HARRIS COUNTY
PUBLIC INFRASTRUCTURE DEPARTMENT
EXPRESS REVIEW SHEET

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY INTRASTATE PIPELINE LLC, WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713)223-4567 OR 1-800-689-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713)967-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX FEET (6') OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED, CALL CENTERPOINT ENERGY AT (713)207-2222.

SBC

THE LOCATIONS OF SBC FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF SBC FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE SBC FACILITIES.

WHEN SBC FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

STORM SEWER CONSTRUCTION NOTES

- STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NO.'S 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 (OCT. 2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL STORM SEWER CONSTRUCTED IN SIDE LOT EASEMENT SHALL BE R.C.P. (C-76, CLASS III) AND SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NO.'S 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.
- ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABILIZED SAND TO WITH IN ONE (1) FOOT SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
- ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO 199).
- CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
- ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-76, CLASS III).
- ALL PROPOSED PIPE STUB-OUT FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ONE FOOT MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSING.
- ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02066-ADJUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING AND BACKSLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
- ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATION TO ENSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED & COMPACTED. ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED, AND FERTILIZED.
- ALL INLETS SHALL BE TYPE "B-B", UNLESS OTHERWISE NOTED.
- ALL STORM MANHOLES SHALL BE TYPE "C" (DRWG. No. 02081-01, AS APPLICABLE), UNLESS OTHERWISE NOTED.
- DENOTES STREET/STOP SIGN (R1-1/R1-1A) □
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. OWNER TO PROVIDE CENTERLINE CONTROL AND ONE (1) SITE BENCHMARK.
- CONTRACTOR SHALL RESTORE FENCES, LANDSCAPING AND ANY OTHER SURFACE FEATURES IMPACTED BY THE CONSTRUCTION OF PROPOSED IMPROVEMENTS ON EXISTING UTILITIES. THIS WORK SHALL BE INCIDENTAL TO THE BID PRICE FOR EACH ITEM OF WORK.
- UTILITY CONTRACTOR SHALL INSTALL AND MAINTAIN ALL IMPROVEMENTS NECESSARY TO COMPLY WITH THE PROJECTS STORM WATER POLLUTION PREVENTION PLAN.
- EXISTING PAVEMENTS, CURB, SIDEWALKS, & DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY HARRIS COUNTY STANDARDS.
- CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE FINAL DRAFT OF STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES AS PREPARED BY HARRIS COUNTY/HCFCD, AND THE CITY OF HOUSTON ALL IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.

GENERAL CONSTRUCTION NOTES

- WATER LINES, WASTEWATER COLLECTION SYSTEMS, PAVING, TRAFFIC SIGNALS AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" (MOST RECENT ISSUE OCTOBER 2002) AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" (MOST RECENT ISSUE, OCTOBER 2002) WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND RECORDED ON THESE PLANS. THE DESIGN MUST AGREE WITH THE MINIMUM STANDARDS ESTABLISHED IN THE LATEST ISSUE OF THE "INFRASTRUCTURE DESIGN MANUAL." NOTE THAT PLAN SIGNATURES AND LETTERS OF CAPACITY AVAILABILITY FOR STORM, WASTEWATER AND WATER PIPE ARE ONE YEAR AND THAT THE LATEST EDITIONS OF DESIGN RULES, SPECIFICATIONS, STANDARD DETAILS AND MANUALS SHALL GOVERN AS OF THE DATES FOR RESIGNING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO PAVING, WATER LINES, WASTEWATER COLLECTION SYSTEMS, STORM SEWERS AND TRAFFIC SIGNALS DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CURRENT EDITIONS OF CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS, DESIGN DETAILS AND DESIGN MANUALS. REPAIRS SHALL BE AT NO COST TO THE CITY OF HOUSTON. (ETJ JOBS MAY ALSO SAY "NO COST TO THE DISTRICT".
- CONTRACTOR SHALL GIVE AEI ENGINEERING, INC. (PHONE: 281-350-7027) AND THE OPERATOR EAGLE WATER MANAGEMENT, MR. TRACY RILEY (PHONE: 281-374-8889), TWO (2) WORKING DAYS NOTICE PRIOR TO BEGINNING CONSTRUCTION.
- ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE AND DEBRIS SHALL BE HAULED OFFSITE BY THE CONTRACTOR. INCLUDE COST OF THIS WORK, INCLUDING HAUL, IN OTHER ITEMS OF THIS PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. CONTRACTOR SHALL NOTIFY UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTACT TEXAS ONE CALL (713)223-4567.
- ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR SHALL CONFINE ALL WORK EFFORTS WITHIN THE DESIGNATED PROPERTY, RIGHT-OF-WAY OR EASEMENTS UNLESS SPECIFICALLY AUTHORIZED BY THE OWNER. EXTREME CARE SHOULD BE EXERCISED WITHIN ADJACENT PROPERTY TO PROTECT THE EXISTING TREES AND FENCES.
- CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGES CAUSED TO ANY EXISTING FACILITIES.
- ALL CONSTRUCTION WHICH HINDERS TRAFFIC OR REQUIRES TRAFFIC DIVERSION SHALL BE AS PER GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITY AND/OR CULVERTS WITHIN HARRIS COUNTY ROAD RIGHTS-OF-WAY.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL CONTACT HARRIS COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. (PHONE: 713-316-3561)
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. OWNER TO PROVIDE CENTERLINE CONTROL AND ONE (1) SITE BENCHMARK.
- CONTRACTOR SHALL RESTORE FENCES, LANDSCAPING AND ANY OTHER SURFACE FEATURES IMPACTED BY THE CONSTRUCTION OF PROPOSED IMPROVEMENTS ON EXISTING UTILITIES. THIS WORK SHALL BE INCIDENTAL TO THE BID PRICE FOR EACH ITEM OF WORK.
- UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FIRE HYDRANTS, WATER VALVES AND BLOWOFF BOXES TO FINAL GRADE AFTER COMPLETION OF PAVING IMPROVEMENTS.

SANITARY SEWER NOTE:

THE FOLLOWING RULES APPLY TO SEPARATION DISTANCES BETWEEN POTABLE WATER AND WASTEWATER TREATMENT PLANTS AND WATER LINES AND SANITARY SEWERS.

- WATER LINE/NEW SEWER LINE SEPARATION. WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATER LINES THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATER LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES WILL APPLY:
 - WHERE A SANITARY SEWER PARALLELS A WATER LINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATER LINE.
 - WHERE A SANITARY SEWER CROSSES A WATER LINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATER LINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATER LINE.
 - WHERE A SEWER CROSSES UNDER A WATER LINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM OF TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF THE WATER LINE. THIS INITIAL BACKFILL SHALL BE FROM ONE QUARTER DIAMETER BELOW THE CENTERLINE OF THE PIPE TO ONE PIPE DIAMETER (BUT NOT LESS THAN 12 INCHES) ABOVE THE TOP OF THE PIPE.
 - WHERE A SANITARY CROSSES OVER A WATER LINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER LINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
- WATER LINE/MANHOLE SEPARATION. UNLESS SANITARY SEWER MANHOLES AND THE CONNECTING SEWER CAN BE MADE WATERTIGHT AND TESTED FOR NO LEAKAGE, THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE FROM AN EXISTING OR PROPOSED WATER LINE. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, A CARRIER PIPE AS DESCRIBED IN SUBSECTION (A)(4) OF THIS SECTION MAY BE USED WHERE APPROPRIATE.

WATER GENERAL NOTES

- ALL PVC WATER MAINS USED IN THIS PROJECT RANGING IN SIZE FROM 6" THROUGH 16" SHALL BE C-900-81 OR LATEST REVISION
- ALL WATER MAINS UNDER STREET PAVEMENT - 4" THROUGH 12" IN DIAMETER, IF NOT SPECIFIED OTHERWISE, SHALL BE AWWA C-900 PVC PIPE.
- ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATIONS C-651 AND THEN FLUSHED BEFORE BEING PLACED INTO SERVICE. WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGIC ANALYSIS AND LINES SHALL NOT BE ACCEPTED FOR SERVICE UNTIL WATER SAMPLES MEET THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.
- CONTRACTOR TO ALLOW MINIMUM ONE FOOT CLEARANCE BETWEEN PROPOSED WATER LINE AND OTHER EXISTING OR PROPOSED UTILITIES.
- MINIMUM OF ONE JOINT OF PIPE SHALL BE INSTALLED BETWEEN GATE VALVE AND PLUG ON DEAD END LINES.

HARRIS COUNTY ENGINEERING DEPARTMENT CONSTRUCTION NOTES

- WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM DRAINAGE SYSTEMS SHALL BE DESIGNED AND CONSTRUCTION IN ACCORDANCE WITH THE CITY OF HOUSTON'S, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "DESIGN MANUAL, STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING", DATED OCTOBER 2002.
- REINFORCED CONCRETE (C-76 CLASS III) STORM SEWERS SHALL BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH CITY OF HOUSTON'S DRAWINGS 02317-04, 02317-05, 02317-06, AND 02317-07 AND 02317-09 AS APPLICABLE.
- ALL STORM SEWERS CONSTRUCTED IN SIDE LOT EASEMENTS SHALL BE RCP C-76. TWENTY (20) FOOT WIDE EASEMENTS SHALL BE PROVIDED.
- ALTERNATIVE TO CEMENT STABILIZED SAND BACKFILL FOR PIPES 54-INCH AND LARGER, FROM 1 FOOT ABOVE THE TOP OF THE PIPE TO THE BOTTOM OF THE SUBGRADE. CONTRACTOR MAY BACKFILL WITH SUITABLE MATERIAL, PROVIDED THE BACKFILL MATERIAL IS PLACED IN 8-INCH (8") LIFTS AND MECHANICALLY COMPACTED TO NINETY-FIVE (95%) STANDARD PROCTOR DENSITY. TESTS SHALL BE TAKEN AT ONE HUNDRED (100) FOOT INTERVALS ON EACH LIFT. BEDDING AND BACKFILL TO ONE (1) FOOT ABOVE THE TOP OF THE PIPE SHALL BE CEMENT STABILIZED SAND.
- ALL PROPOSED PIPE STUBOUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH EIGHT (8) INCH BRICK WALLS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOTIFY HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT ENGINEERING DIVISION - PERMIT OFFICE TWENTY FOUR (24) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PAVING CONSTRUCTION AT 713-316-3565 AND WRITTEN NOTIFICATION FORTY EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT 10,000 NORTHWEST FREEWAY, SUITE 130, HOUSTON, TEXAS 77002-8815.
- PAVING SHALL BE IN ACCORDANCE WITH THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE" AND/OR AMENDMENTS OF SAME.
- GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.
- OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY ROAD RIGHTS-OF-WAY.
- "AS PER FIRM PANEL NO. 4820100 DATED _____ THIS TRACT IS NOT/IS/PARTIALLY WITHIN THE 100 YEAR FLOOD PLAIN, AND THE NEAREST APPLICABLE 100 YEAR FLOOD PLAIN ELEVATION IS _____ (1973 DATUM ADJUSTMENT)."

SANITARY SEWER GENERAL NOTES

- SANITARY SEWER PIPE SHALL BE PVC CLASS 150 IN ACCORDANCE WITH ASTM D3034, (SDR 26) "PVC GRAVITY SEWER PIPE SYSTEMS" FURNISH ELASTOMERIC GASKETS CONFORMING WITH THE REQUIREMENTS OF ASTM F-477, CONFORM TO CITY OF HOUSTON SPECIFICATION SECTION 02506.
- BACKFILL ALL EXCAVATED AREAS/TRENCHES UNDER OR WITHIN 1 FOOT OF EXISTING OR PROPOSED PAVEMENT WITH CEMENT STABILIZED SAND FROM THE TOP OF THE PIPE "EMBEDMENT ZONE" UP TO 1 FOOT BELOW PAVING SUBGRADE. CEMENT STABILIZED SAND MUST DEVELOP 100 PSI COMPRESSION AT 48 HOURS. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ALL SANITARY SEWER MANHOLE RIMS OUTSIDE OF PROPOSED PAVING WILL BE SET 3" TO 6" MINIMUM ABOVE THE SURROUNDING LEVEL FINISHED GROUND WITH SLOPED FILL ADDED FOR STORM DRAINAGE AWAY FROM THE MANHOLE RIM.
- ALL SANITARY SEWER MANHOLES SHALL BE AS PER DRAWING NO. 02082-02. (NO BRICK ALLOWED)
- WHENEVER SANITARY SEWERS CROSS OVER WATER MAINS, ONE 18" JOINT OF DUCTILE IRON PIPE SHALL BE INSTALLED IN THE SEWER LINE AND CENTERED AT THE WATER LINE CROSSING. MINIMUM THICKNESS CLASS 52, 150 PSI.
- IF ANY OTHER TYPE SANITARY SEWER PIPE OR MANHOLE TYPE NOT MENTIONED IN THE DESIGN MANUAL IS CHOSEN, THEN A LETTER OF PERMISSION MUST BE OBTAINED FROM THE WASTEWATER DESIGN SECTION CAPITAL PROJECTS DEPT.
- SANITARY SEWER JOINTS (ALL TYPES PVC INCLUDED) SHALL BE RUBBER GASKET EQUIPPED BELL AND SPIGOT TYPE. CHEMICALLY WELDED SANITARY SEWER JOINTS ARE NOT ACCEPTABLE.
- ALL MANHOLE RIMS SHALL BE ABOVE THE 100 YEAR FLOOD ELEVATION OR THE MANHOLE TOP SHALL BE SEALED AND VENTED WITH A DETAIL OF A VENTED MANHOLE TO BE INCLUDED IN THE PLANS.
- CITY OF HOUSTON SIGNATURES AFFIXED TO PLANS SHALL BE VALID FOR ONE (1) YEAR ONLY AFTER THE DATE OF SAID SIGNATURES. ANY CHANGES MADE TO THE PLANS AFTER SAID DATE WILL REQUIRE REPLACEMENT AND ARE BEING UPDATED. DESIGN CHANGES MAY BE ORDERED FOR ANY UNBUILT ITEMS FOUND ON THE PLANS (NOTE: THIS ITEM DOES NOT APPLY TO CITY OF HOUSTON CAPITAL PROJECTS DEPARTMENT PLANS).
- DEFLECTION TESTING SHALL BE PERFORMED FOR ALL NON RIGID PIPE TYPES. DEFLECTION TESTING SHALL BE CONDUCTED AFTER THE GRAVITY SANITARY SEWER HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THE DEFLECTION TEST SHALL BE CONDUCTED USING A RIGID BALL OR MANDREL HAVING AN INSIDE DIAMETER EQUAL TO 95% OF THE INTERIOR DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. I. & E. TEST FOR SANITARY SEWER SYSTEM SHALL BE IN ACCORDANCE WITH CITY OF HOUSTON REQUIREMENTS.
- ALL STACKS SHALL BE BASED ON WYE OR TEE, NO SADDLES ALLOWED.
- DUCTILE IRON PIPE SHALL BE LINED WITH 45 MILS OF POLYETHYLENE THAT COVERS ALL SURFACES EXPOSED TO SANITARY SEWAGE. USE POLY LINE BY U.S. PIPE, POLY BOND BY AMERICAN CIP OR EQUAL.
- CEMENT STABILIZED SAND SHALL NOT BE MORE THAN 4 HOURS OLD AT ANY TIME OF USE.
- PVC CELL CLASS SHALL BE 12454 A OR B AS PER ASTM D-1784.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. OWNER TO PROVIDE CENTERLINE CONTROL AND (1) ONE SITE BENCHMARK.
- CONTRACTOR SHALL RESTORE FENCES, LANDSCAPING AND ANY OTHER SURFACE FEATURES IMPACTED BY THE CONSTRUCTION OF PROPOSED IMPROVEMENTS ON EXISTING UTILITIES. THIS WORK SHALL BE INCIDENTAL TO THE BID PRICE FOR EACH ITEM OF WORK.
- UTILITY CONTRACTOR SHALL ADJUST ALL SURFACE FEATURES OF SANITARY SEWER SYSTEM TO FINAL GRADE UPON COMPLETION OF PAVING IMPROVEMENTS.
- SANITARY SEWER LEADS THAT CROSS WATER LINES SHALL BE C900 DR18 OR D.I.P. CL. 50.
- CENTER A JOINT OF SANITARY SEWER PIPE AT ALL POINTS WHERE THE SANITARY SEWER CROSSES A WATER LINE. SANITARY SEWER AT WATER LINE CROSSINGS TO BE C900 DR 18 OR D.I.P. CL. 50.
- CONTRACTOR SHALL OBTAIN AND FOLLOW A COPY OF THE DESIGN MANUAL, STANDARD DETAILS ISSUED BY THE CITY OF HOUSTON. CONTRACTOR MAY OBTAIN A COPY OF THE DESIGN MANUAL IN THE FILE ROOM, 611 WALKER.
- NORMAL BEDDING FOR DRY STABLE TRENCH SEWER SHALL BE AS PER DRAWING 02317-01. FOR WET STABLE TRENCH USE DRAWING 02317-02.
- FORCE MAIN SHALL BE GREEN OR BROWN AND SHALL BE LABELED EVERY 2' "NON-POTABLE WATER".

NO.	REVISIONS	DATE	DRAWN BY	ENGR. CHK'D

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-7777

PRIVATE UTILITY LINES SHOWN AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONG STAR NOTIFICATION 713-223-4567

CENTERPOINT ENERGY / ELECTRIC FACILITIES Date: _____
(Approved only for crossing underground facilities only, unless otherwise noted)
Valid at time of review only

SBC UTILITY LINES SHOWN Date: _____
(Approved for SBC underground conduit facilities only.)
Signature valid for one year

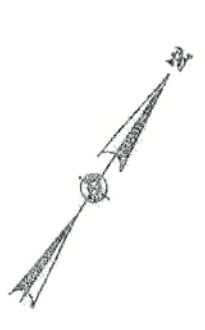
CENTERPOINT ENERGY / GAS FACILITIES Date: _____
(Gas service lines are not shown.)



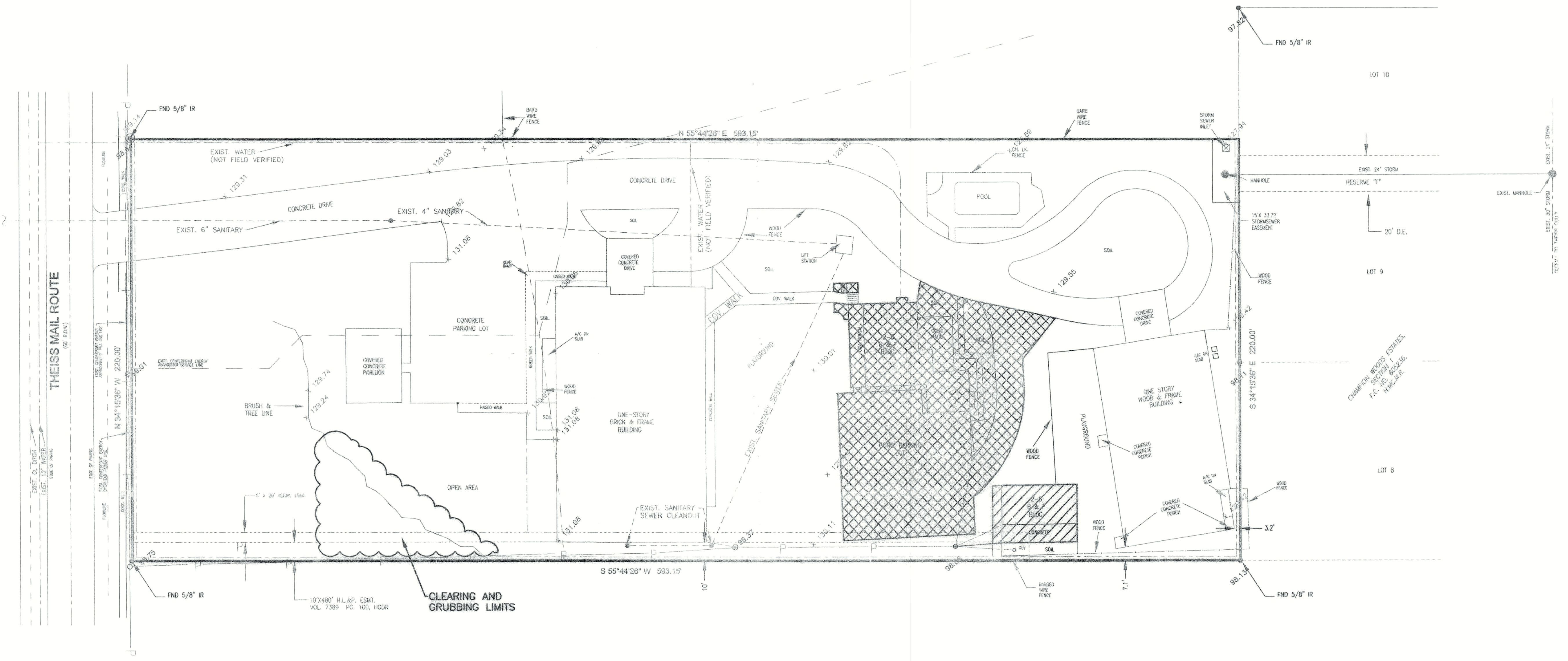
AEI ENGINEERING, INC.
616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77090
(281)350-7027
(281)350-7035 FAX
WWW.AEIENGR.COM

GENERAL NOTES

DRAWN M.S.	DESIGN N.A.A.	CHK'D M.A.K.
DATE MAY 2008	SCALE	
JOB No. 322-001-002	SHEET 3 OF 9	



MICHAEL H. SHIVELY AND
WIFE, BETTY C. SHIVELY
CALLED 3.00 ACRES
H.C.C.F. NO. C292115



BONNIE M. BRAGANZA ET
VIR FRANCIS K. BRAGANZA
H.C.C.F. NO. 5500313

LEGEND

- DEMOLITION PHASE I
- DEMOLITION PHASE II

NOTE:
EVERY EFFORT HAS BEEN MADE TO GENERATE
AN ACCURATE DEPICTION OF THE LIFT
STATION. THE PLAN & SECTION VIEWS WERE
DEVELOPED FROM THE ORIGINAL
CONSTRUCTION DRAWINGS AND FIELD
OBSERVATIONS. IMPROVEMENTS AND
MODIFICATIONS SINCE THE ORIGINAL
CONSTRUCTION MAY NOT BE EVIDENT FROM
THE DRAWING. THEREFORE, FIELD VERIFICATION
IS REQUIRED.

BENCHMARK:
FEMA RM 110560 BRASS DISK ON DOWNSTREAM SIDE OF BRIDGE
ON LOUETTA OVER DRY GULLY, NAVD88 DATUM, 2001 ADJUSTMENT,
ELEVATION = 126.08.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL
CENTERPOINT AT 713-207-7777

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR
EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567

CENTERPOINT ENERGY / ELECTRIC FACILITIES Date:
(Approved only for crossing underground facilities, unless otherwise noted)
Valid at time of review only

SBC UTILITY LINES SHOWN Date:
Approved for SBC underground conduit facilities only.
Signature valid for one year

CENTERPOINT ENERGY / GAS FACILITIES Date:
(See service lines are not shown.)

STATE OF TEXAS
MICHAEL A. KURZY
81998
DATE 7-3-08

AEI
ENGINEERING, INC.
616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77090
(281) 350-7027
(281) 350-7035 FAX
WWW.AEI-ENG.COM

ABERCROMBIE ACADEMY
EXPANSION DESIGN

DEMOLITION PLAN

DRAWN M.S.	DESIGN N.A.	CHK'D M.A.K.
DATE MAY 2008	SCALE 1"=30'	
JOB NO. 322-001-002	SHEET 4 OF 9	

NO.	REVISIONS	DATE	DRAWN BY	ENGR. CHK'D

LEGEND

-  ARTICULATED BLOCK PERMEABLE PAVEMENT
-  CONCRETE PAVEMENT
-  FLOW DIRECTION
-  DRAINAGE AREA
-  PROP. ELEVATION

NOTE:
EVERY EFFORT HAS BEEN MADE TO GENERATE AN ACCURATE DEPICTION OF THE LIFT STATION. THE PLAN & SECTION VIEWS WERE DEVELOPED FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS. IMPROVEMENTS AND MODIFICATIONS SINCE THE ORIGINAL CONSTRUCTION MAY NOT BE EVIDENT FROM THE DRAWING. THEREFORE, FIELD VERIFICATION IS REQUIRED.

BENCHMARK:
FEMA RM 110560 BRASS DISK ON DOWNSTREAM SIDE OF BRIDGE ON LOUETTA OVER DRY GULLY, NAVD88 DATUM, 2001 ADJUSTMENT, ELEVATION = 128.08.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-7777

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567

CENTERPOINT ENERGY / ELECTRIC FACILITIES Date: _____
(Approved only for crossing underground facilities, unless otherwise noted)
Valid at time of review only

SBC UTILITY LINES SHOWN Date: _____
Approved for SBC underground conduit facilities only.
Signature valid for one year

CENTERPOINT ENERGY / GAS FACILITIES Date: _____
(Gas service lines are not shown)



AEI ENGINEERING, INC.
616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77090
(281)350-7027
(281)350-7035 FAX
WWW.AEIENGR.COM

ABERCROMBIE ACADEMY
EXPANSION DESIGN

SITE PLAN

DRAWN	DESIGN	N.A.A.	CHK'D	M.A.K.
DATE	MAY 2008	SCALE	1"=30'	
JOB No.	322-001-002	SHEET	5	OF 9

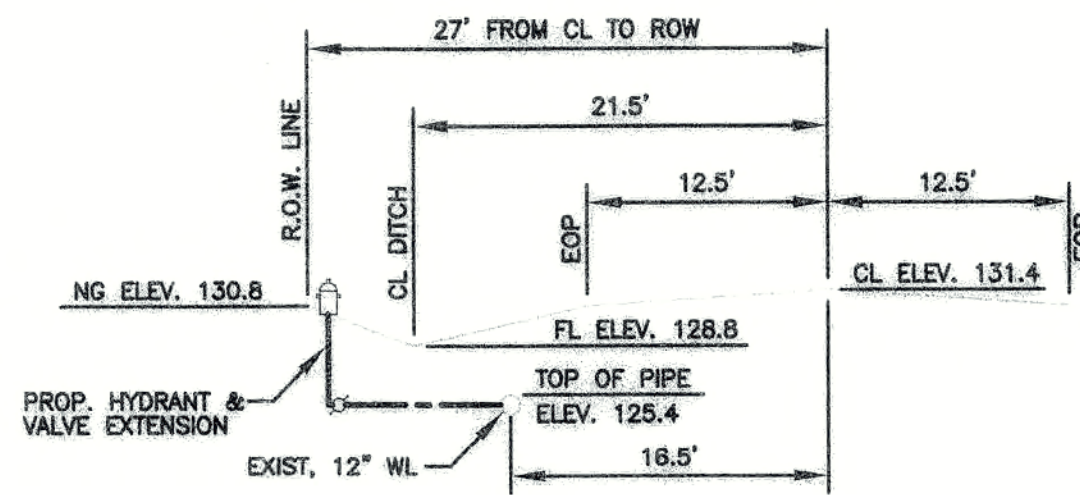
City of Houston Design Standards (2-YR Storm)					
		Tract Total Area			
		SF	AC		
		130,493	2.9957		
		Impervious Area		Pervious Area	
		SF	AC	SF	AC
Existing Proposed		54,724	1.2563	75,769	1.7394
		54,406	1.2490	76,087	1.7467
Existing					
		SF		SF	
Area 1 Total Area		48,215		Area 2 Total Area 62,278	
Impervious Area		12,692		Impervious Area 42,032	
Pervious Area		35,523		Pervious Area 40,246	
Proposed					
		SF		SF	
Area 1 Total Area		43,500		Area 2 Total Area 86,993	
Impervious Area		14,269		Impervious Area 40,137	
Pervious Area		29,231		Pervious Area 46,856	
Time of Concentration, Tc		Rainfall Intensity, I			
Tc(min) = 10 A ^{0.1781} + 15		i = 75.01(16.2+27.13) ^{0.8315}			
Tc = 27.13 min		I = 3.267 in/hr			
Runoff Coefficient, C					
C = 0.6 I ₀ + 0.2		I ₀ = Impervious Area / Total Area			
I ₀₁ exist = 0.2632		I ₀₁ prop = 0.3280			
I ₀₂ exist = 0.5109		I ₀₂ prop = 0.4614			
C ₁ exist = 0.358		C ₁ prop = 0.397			
C ₂ exist = 0.507		C ₂ prop = 0.477			
		Runoff Coefficient, C	Rainfall Intensity, i(in/hr)	Area (acres)	Flow, Q (cfs)
Existing	Overland Flow Area				
	2	0.358	3.27	1.107	1.30
Proposed	2	0.507	3.27	1.989	3.13
	1	0.397	3.27	0.999	1.30
Proposed	2	0.477	3.27	1.997	3.11

NOTE: GUTTERS SHALL BE PLACED SO AS TO DRAIN TO DRAINAGE AREA NO. 2



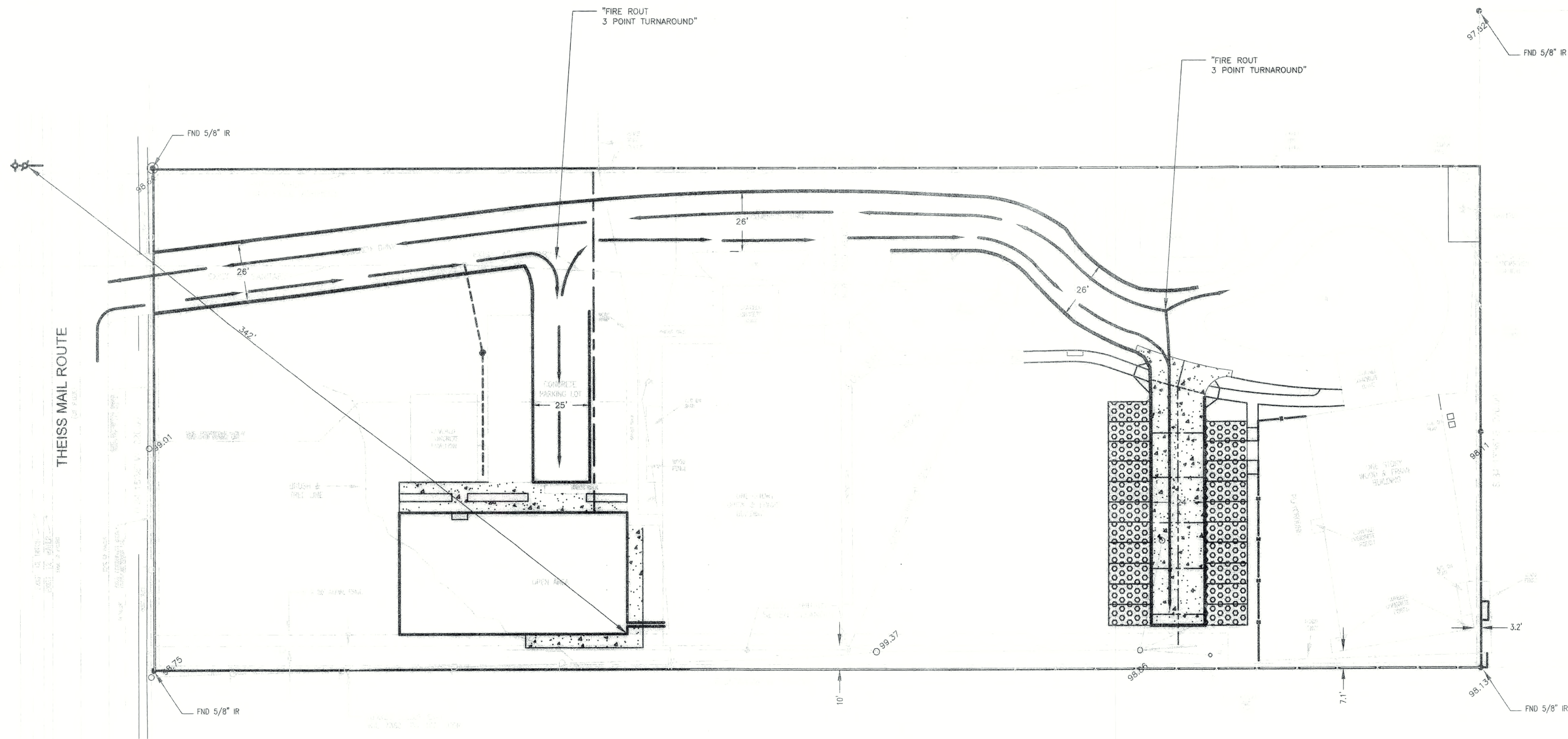
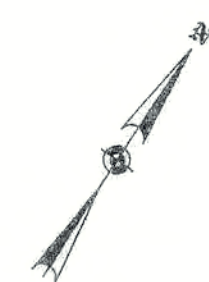
PROP. FIRE HYDRANT

THEISS MAIL ROUTE



CROSS SECTION OF THEISS MAIL ROUTE

SCALE: 1"=10'



NO.	REVISIONS	DATE	DRAWN BY	ENGR. CHK'D

LEGEND



ARTICULATED BLOCK PERMEABLE PAVEMENT



CONCRETE PAVEMENT

----- EXPANSION JOINT

----- CONSTRUCTION JOINT

----- KEYED CONSTRUCTION JOINT

===== FIRE ACCESS ROUT

===== FIRE LANE STRIPING

NOTES:

1. CURBS LOCATED ON EITHER SIDE OF FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG PAVEMENT WHERE THERE IS NO CURB.
2. RED STRIPES SHALL BE A MINIMUM OF 2 COATS, 4-INCHES WIDE, WITH RED TRAFFIC PAINT.
3. PAINTED CURBS AND FIRE LANE STRIPES SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING, "FIRE LANE-TOW AWAY ZONE", 3-INCHES IN HEIGHT AT INTERVALS NOT EXCEEDING FIFTY (50) FEET.

BENCHMARK:

FEMA RM 110560 BRASS DISK ON DOWNSTREAM SIDE OF BRIDGE ON LOUETTA OVER DRY GULLY, NAVD88 DATUM, 2001 ADJUSTMENT, ELEVATION = 128.08.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-7777

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONG STAR NOTIFICATION: 713-523-4367

CENTERPOINT ENERGY / ELECTRIC FACILITIES Date: _____
(Approved only for crossing underground ductlines, unless otherwise noted)
Valid at time of review only

SBC UTILITY LINES SHOWN Date: _____
Approved for SBC underground conduit facilities only.
Signature valid for one year

CENTERPOINT ENERGY / GAS FACILITIES Date: _____
(See service lines site not shown)



AEI ENGINEERING, INC.
616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77090
(281) 350-7027
(281) 350-7035 FAX
WWW.AEIENGR.COM

ABERCROMBIE ACADEMY
EXPANSION DESIGN

FIRE ACCESS ROAD/FIRE
LANE LAYOUT PLAN AND
PAVING JOINT PLAN

DRAWN M.S.	DESIGN N.A.A.	CHK'D M.A.K.
DATE MAY 2008	SCALE 1"=30'	
JOB No. 322-001-002	SHEET 6 OF 9	

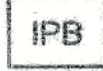
STATE OF TEXAS
MICHAEL A. KURZY
81998
LICENSED
PROFESSIONAL ENGINEER

NAME Michael Kurzy
DATE 7-3-02



NO.	REVISIONS	DATE	DRAWN BY	ENGR. CHK'D

LEGEND

-  STABILIZED CONSTRUCTION ENTRANCE/EXIT
-  FILTER FABRIC FENCE
-  INLET PROTECTION BARRIER
-  REINFORCED FABRIC BARRIER

BENCHMARK:
FEMA RM 110560 BRASS DISK ON DOWNSTREAM SIDE OF BRIDGE
ON LOUETTA OVER DRY GULLY, NAVD83 DATUM, 2001 ADJUSTMENT,
ELEVATION = 128.08.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL
CENTERPOINT AT 713-207-7777

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR
EASEMENTS CALL THE TONE STAKE NOTIFICATION 713-223-4567

CENTERPOINT ENERGY / ELECTRIC FACILITIES Date:
(Approved only for crossing underground ductlines, unless otherwise noted)
Valid at time of review only

SBC UTILITY LINES SHOWN Date:
Approved for SBC underground conduit facilities only.
Signature valid for one year

CENTERPOINT ENERGY / GAS FACILITIES Date:
(Gas service lines are not shown.)



AEI
ENGINEERING, INC.
616 FM 1960 W., SUITE 250
HOUSTON, TEXAS 77060
(281)350-7027
(281)350-7035 FAX
WWW.AEIENR.COM

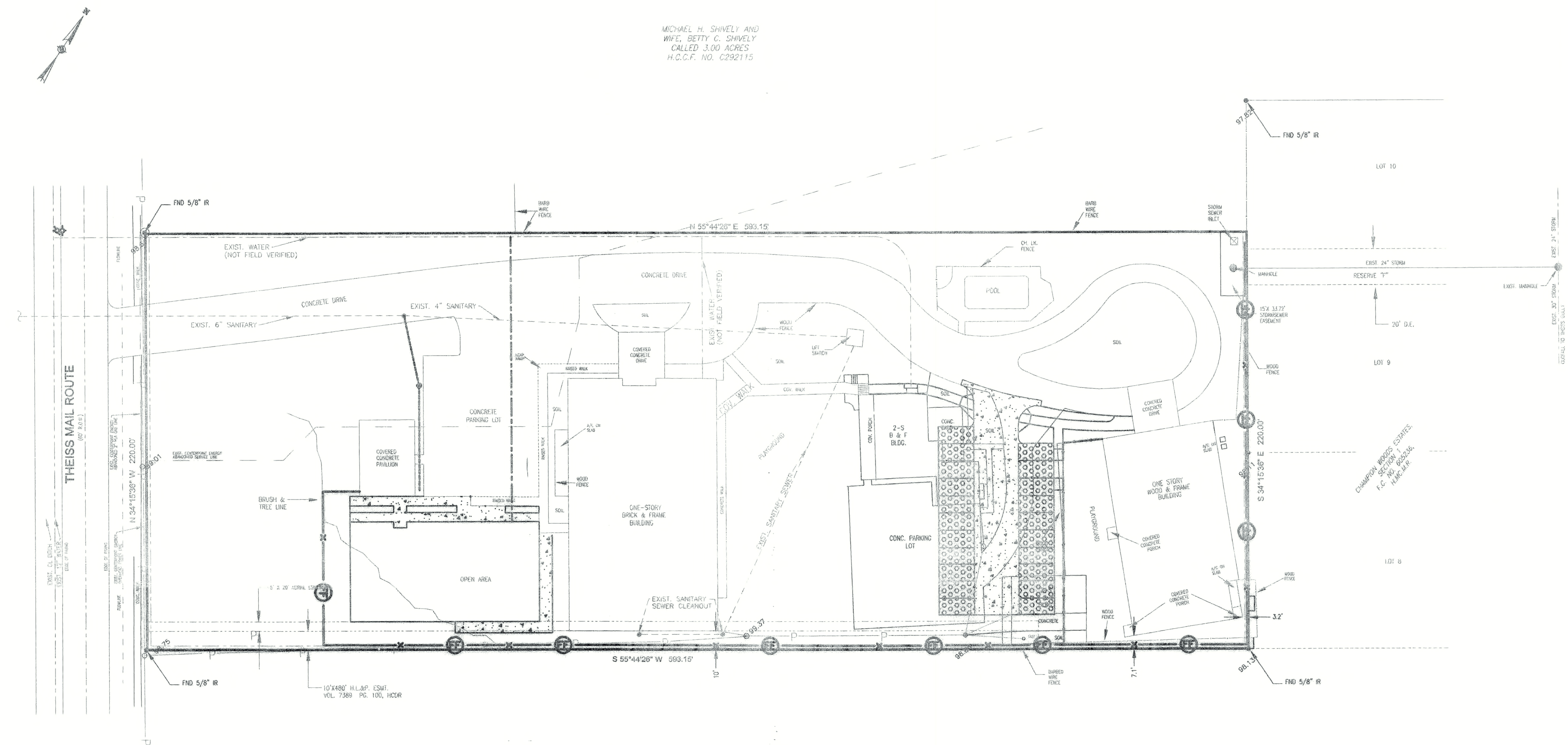
ABERCROMBIE ACADEMY
EXPANSION DESIGN

**STORMWATER POLLUTION
PREVENTION PLAN**

DRAWN M.S.	DESIGN N.A.A.	ENGR'D M.A.K.
DATE MAY 2008	SCALE 1"=30'	
JOB No. 322-001-002	SHEET 8 OF 9	

MICHAEL H. SHIVELY AND
WIFE, BETTY C. SHIVELY
CALLED 3.00 ACRES
H.C.C.F. NO. C292115

BONNIE M. BRAGANZA, ET
VIR FRANCIS X. BRAGANZA
H.C.C.F. NO. S500313



BUILDING PLANNING & DESCRIPTION OF PROPERTY

NEW CONSTRUCTION SHELL BUILDING
LEASE SPACE BUILD-OUT SUBSTANTIAL IMPROVEMENT
SINGLE OCCUPANCY
MIXED OCCUPANCY SEPARATED USE NON-SEPARATED

IBC2006, SECTION 508 MIXED OCCUPANCY PLEASE REFERENCE 508.3.2 OR 508.3.2.3
BLDG. LENGTH 101' BLDG. WIDTH 52' BLDG. HEIGHT 24' (IN FT.)
HEIGHT LIMITATION 40' AREA LIMITATION 9,500' (FROM TABLE 503 IBC2006)
(IF YOU ARE APPLYING FRONTAGE INCREASE, PLEASE ILLUSTRATE CALCULATION ON COVER SHEET OR CODE ANALYSIS SHEET.)

BUILDING VALUATION
GROSS SQUARE FOOTAGE 5,406 S.F.
ESTIMATED COST OF CONSTRUCTION: \$ 350,000
SCALED COST OF CONSTRUCTION: \$ 405,450
(To calculate scaled cost of construction use the square footage and multiply by \$75.00.)

BUILDING NAME: ABERCROMBIE ACADEMY
PHYSICAL ADDRESS: 17102 THEISS MAIL RD, SPRING TEXAS 77379

LEASE SPACE ADDRESS and/or SUITE NO.: N/A

LEGAL DESCRIPTION: BEING 2.996 ACRES OF LAND IN THE JOHN HOUSE SURVEY, A-314, AND BEING A PORTION OF THAT CERTAIN 6.000 ACRE TRACT DESCRIBED IN DEED RECORDED IN VOLUME 5847, PAGE 195, OF THE DEED RECORDS OF HARRIS COUNTY, TEXAS.

TYPE OF CONSTRUCTION: V-B

SHELL BUILDING PERMIT NUMBER: N/A

CALL CENTERPOINT ENERGY TO OBTAIN AN ADDRESS FOR YOUR PROJECT
CENTERPOINT ENERGY: 713-207-4460
T.D.L.R.# A8822413

TEXAS DEPARTMENT OF LICENSING AND REGULATIONS
http://www.license.state.tx.us/ABDataSearch/ (hyperlink) hold Ctrl + click here
Telephone: (512) 463-6599 Toll-Free (in Texas): 800-803-9202
Fax: (512) 475-2871 Relay Texas-TDD: (800) 735-2989

PRIMARY RESPONDING FIRE DEPARTMENT
STATION NUMBER: 4
ADDRESS: KLEIN VFP 16810 SQUYRES RD, SPRING, TX 77379
CONTACT THE HARRIS COUNTY FIRE MARSHAL'S OFFICE FOR RESPONDING FIRE DEPT. INFORMATION. http://www.hcfmo.net (hyperlink) hold Ctrl + click here

PROVIDE A BRIEF DESCRIPTION OF THE USE OR PROCESS, PRODUCT AND MATERIALS USED IN THIS FACILITY.

NEW CLASSROOM BUILDING FOR ABERCROMBIE ACADEMY.
SCOPE OF WORK INCLUDES: SOME SITE DEMOLITION AND CONSTRUCTION OF A NEW BUILDING FOR ELEMENTARY CLASSROOMS.

1. OCCUPANCY TYPE AND LOAD

IFC 2006, CHAPTER 2 AND IBC 2006, CHAPTER 3 & 10

OCCUPANCY CLASSIFICATION	SPECIFIC USE		②	③
A-1				
A-2				
A-3				
A-4				
A-5				
B	OFFICE	280 SF	100	3
E	CLASSROOMS	3,490 SF	20	175
F-1				
F-2				
H-1				
H-2				
H-3				
H-4				
H-5				
I-1				
I-2				
I-3				
I-4				
M				
R-1				
R-2				
R-3				
R-4				
S-1				
S-2				
U	MISC	1,636 SF	300	5
TOTAL NET		5, 406 SF		183
TOTAL GROSS		5, 406 SF		183

REF. IBC 2006, TABLE 1004.1.1

- ① LIST SQUARE FOOTAGE IN EACH OCCUPANCY CLASSIFICATION.
② LIST FLOOR AREA IN SQUARE FOOT PER OCCUPANT FROM IBC TABLE 1004.1.1
③ LIST ALLOWABLE OCCUPANTS PER OCCUPANT CLASSIFICATION.
NOTE EXTRA COLUMNS MAY BE ADDED FOR MULTIPLE STORY BUILDINGS

2. MEANS OF EGRESS

IBC 2006, CHAPTER 10

MEANS OF EGRESS	# OF REQUIRED EXITS	# OF EX'S PROVIDED	SHEET #
Stairways (per floor)	N/A	N/A	N/A
Egress @ grade level	2	6	A1.0

(TABLE 1005.1 IBC-2006ED)

STAIRWAYS

MINIMUM CLEAR WIDTH REQUIRED (EACH STAIRWELL) N/A
MINIMUM CLEAR WIDTH PROVIDED (EACH STAIRWELL) N/A
EGRESS WIDTHS ARE SHOWN ON SHEET: A1.0 & A6.0
(IBC-2006ED SEC. 1009)

DELAY EGRESS LOCKS

REQUIRED AND SHOWN ON SHEET (PLEASE HIGHLIGHT) NOT PROVIDED
(IBC-2006ED SEC. 1008.1.8.6)

EXIT SIGNS / EGRESS ILLUMINATION

REQUIRED AND SHOWN ON SHEET A1.1 (PLEASE HIGHLIGHT) NOT REQUIRED BUT PROVIDED
NOT APPLICABLE BECAUSE
(IBC-2006ED SEC. 1006 & 1011)

EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY TYPE	MAX. TRAVEL DISTANCE	PROVIDED TRAVEL DISTANCE	SHEET #
E	200	72'-0" MAX.	A1.0

(IBC-2006ED SEC. 1016.1)

CORRIDOR FIRE RESISTANCE RATING

OCCUPANCY TYPE	OCC. LOAD SERVED BY CORRIDOR	REQUIRED FIRE RESISTANCE RATING	SHEET #
E	GREATER THAN 3C	1	A1.0

(IBC-2006ED TABLE 1017.1)

3. FIRE PROTECTION SYSTEMS

IBC & IFC 2006, CHAPTER 9

AUTOMATIC FIRE SPRINKLER SYSTEM (SECTION 903)

REQUIRED AS NOTED ON SHEET, TYPE OF SYSTEM PROVIDED
NOT REQUIRED BUT PROVIDED, TYPE OF SYSTEM PROVIDED
X NOT REQUIRED PER SECTION 903, HARRIS CO. FIRE CODE (IBC & IFC 2006)

ALTERNATIVE AUTOMATIC FIRE EXTINGUISHING SYSTEM (SECTION 904)

(I.E. KITCHEN HOOD SYSTEM, CLEAN AGENT SYSTEM, FOAM SYSTEM, etc.)

REQUIRED AS NOTED ON SHEET, TYPE OF SYSTEM PROVIDED
X NOT REQUIRED PER SECTION 904

STANDPIPE SYSTEM & HOSE CONNECTIONS (SECTION 905)

REQUIRED AS NOTED ON SHEET, TYPE OF SYSTEM PROVIDED
X NOT REQUIRED PER SECTION 905

PORTABLE FIRE EXTINGUISHERS (SECTION 906)

X REQUIRED AS NOTED ON SHEET A1.0, NUMBER PROVIDED 3 (PLEASE HIGHLIGHT)
NOT REQUIRED BECAUSE: ☐ ESFR SPRINKLER SYSTEM (groups A, E, and E) ☐ GROUP U

FIRE / EMERGENCY ALARM AND DETECTION SYSTEMS (SECTION 907)

X REQUIRED AS NOTED ON SHEET A1.0, TYPE OF SYSTEM PROVIDED Manual fire alarm system
NOT REQUIRED PER SECTION 907

HVAC & AIR DISTRIBUTION SYSTEM CONTROLS (SECTION 907.12 IFC 2006)

(Smoke/fire dampers, duct smoke detectors, etc.)

X REQUIRED AS NOTED ON SHEET A1.5,
NO HVAC UNITS OVER 2,000 CFM USED IN THIS SYSTEM
NO FIRE/ SMOKE DAMPERS IN THE BUILDING

SMOKE CONTROL SYSTEMS (SECTION 909)

REQUIRED AS NOTED ON SHEET
X NOT REQUIRED PER SECTION 909

SMOKE AND HEAT VENTILATION (SECTION 910 & TABLE 903)

OCCUPANCY GROUP AND COMMODITY CLASSIFICATION	DESIGNATED STORAGE HEIGHT (feet)	MINIMUM DRAFT CURTAIN DEPTH (feet)	MAX. AREA FORMED BY CURTAINS (square feet)	VENT AREA TO FLOOR AREA RATIO	MAX. SPACING OF VENTS CENTERS (feet)	MAX. DISTANCE TO VENTS FROM WALL OR DRAFT CURTAIN (feet)	SHOWN ON SHEET #

NOTE: 1) WHERE AREAS OF BUILDINGS ARE EQUIPPED WITH EARLY SUPPRESSION FAST-RESPONSE (ESFR) SPRINKLERS, AUTOMATIC SMOKE AND HEAT VENTS SHALL BE PROHIBITED WITHIN THESE AREAS. EXISTING ESFR PROTECTED BUILDINGS HAVING SMOKE AND HEAT VENTS SHALL HAVE OPERATING TEMPERATURE VERIFIED TO ASSURE THAT THEY WILL OPERATE AT LEAST 70° F ABOVE FUSING TEMPERATURE OF SPRINKLERS, OR BE REPLACED.
2) AREAS OF BUILDING EQUIPPED WITH STANDARD SPRINKLER SYSTEM, SMOKE AND HEAT VENTS SHALL BE RATED 70° F ABOVE SPRINKLER HEAD RATING.

4. FIRE-RESISTANT RATED CONSTRUCTION

IBC 2006, CHAPTER 6, 7 and 10

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENTS	REQUIRED	PROVIDED	SHEET #	U.L. RATING
STRUCTURAL FRAME	0	0	A1.0	
EXTERIOR BEARING WALLS	0	0	A1.0	
INTERIOR BEARING WALLS	0	0	A1.0	
EXTERIOR NON-BEARING WALLS	0	0	A1.0	
INTERIOR NON-BEARING WALLS	0	0	A1.0	
FLOOR CONSTRUCTION	0	0	A1.0	
ROOF CONSTRUCTION	0	0	A1.0	

(REFER TO TABLES 601, 602 & 602.4 OF IBC 2006)

IBC 2006, CHAPTER 10

STAIRWELLS (section 1019.1)	N/A			
ELEVATOR SHAFTS (section 707)	N/A			
CORRIDORS (section 1016.1)	1 HR	1 HR	A1.0/ G0.0	U337
FIRE RATED DOORS (table 715.3)	1 HR	1 HR	A1.0/ A6.0	
OCC. SEPARATION OR DEMISING WALL	N/A			

AUTOMATIC FIRE EXTINGUISHING SYSTEM REDUCTION CLAIMED: YES NO X
(1 HOUR REDUCTION ALLOWED, SEE FOOTNOTE - D, TABLE 601 IBC2006)

FIRE SEPARATION DISTANCE IN FEET (REF. SECTION 602 IBC-2006)

NORTH 15' SOUTH 15' EAST 15' WEST 109'

ROOF COVERING CLASSIFICATION: REQUIRED C PROVIDED C
(REF. TABLE 1505.1, IBC2006)

5. WATER SUPPLY AND ACCESS

IFC 2006 CHAPTER 5, APPENDIX B

V-B TYPE OF CONSTRUCTION (IBC, CHAPTER 6)

5,406 SIZE OF BUILDING IN SQ. FT., (INCLUDE ALL OVERHANGS UNDER ROOF)

2,000 REQUIRED (GPM) 2 DURATION (REF. IFC-2006 APPENDIX B105.2)

50% REDUCTION YES NO

PUBLIC WATER SUPPLY WITH FIRE HYDRANTS

NAME OF THE MUNICIPAL UTILITY DISTRICT H.C. WC.1.0 #114

http://www3.tceq.state.tx.us/owd/ (hyperlink) hold Ctrl + click here

1 NUMBER OF EXISTING HYDRANTS WITHIN 1000 FEET OF PROJECT

C-6 SHEET NUMBER FOR "FIRE LANE LAYOUT PLAN" WHICH SHALL

A1.0 INCLUDE THE FOLLOWING: SITE PLAN, FIRE LANE, FIRE HYDRANTS

WITH LOCATIONS HIGH LIGHTED.

FIRE LANES ARE INCLUDED WITH THIS REVIEW FOR REFERENCE

ONLY. FIRE LANES WILL BE APPROVED DURING THE CIVIL REVIEW

PROCESS.

BUILDING HEIGHT OVER 30 ft., AERIAL ACCESS LAYOUT PROVIDED.

http://www.eng.hctx.net/permits/firecode.htm (hyperlink) hold Ctrl + click here

MENU ITEM (FIRE LANE LAYOUT, GENERAL REQUIREMENTS & APPROVED SIGN)

WATER SOURCE FOR RURAL AREAS WITHOUT FIRE HYDRANTS

ONSITE RETENTION POND WITH DRY HYDRANT (REF. DRY HYDRANT WORKSHEET)

DESIGN SPECIFICATIONS AND LOCATION SHOWN ON SHEET

MINIMUM REQUIRED WATER SUPPLY FROM THE FIRE FLOW CALCULATOR

http://www.eng.hctx.net/permits/firecode.htm (hyperlink) hold Ctrl + click here

FIRE FLOW CALCULATOR NFPA 1142

INTERIOR FINISH

IBC 2006, CHAPTER 8

OCCUPANCY GROUP	EXITS ENCLOSURES, EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES	SHOWN ON SHEET
E	A	B	C	A1.0

(PER SECTION 803 AND TABLE 803.5, IBC 2006)



FOR SECTION 7 HIGH PILED STORAGE AND/OR SECTION 8 HAZARDOUS MATERIALS, PLEASE SEE ATTACHED PDF DOCUMENTS.

COMMENTS

Comments section with multiple lines for notes.

FOR OFFICE USE ONLY!
COMMERICAL FIRE CODE (CFC)
CHECK LIST FOR COVER SHEET
KEY MAP LOCATION (SHOWN HERE) 330K
PLAN INDEX / TABLE OF CONTENTS G0.0
VICINITY MAP G0.0
Level 1
X Level 2
Level 3
Level 4
Level 5

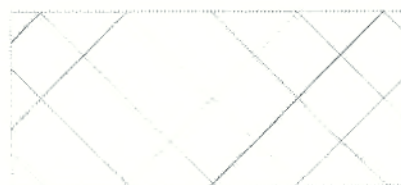
THE PROJECT KNOWN AS
ABERCROMBIE ACADEMY
FIRE CODE
IFC 2006
PROJECT NO#
1018161

REVIEWER'S SIGNATURE BLOCK
PERMIT OFFICE
BY [Signature] AS TO COMPLIANCE WITH COUNTY FIRE CODE
DATE 10-07-08 S. Nance
THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER / ARCHITECT LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE PROFESSIONAL'S RESPONSIBILITY AND ACCOUNTABILITY. THIS ACCEPTANCE DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT.

CERTIFICATION
KEENON RAYNER, A LICENSED PROFESSIONAL ENGINEER/ARCHITECT IN THE STATE OF TEXAS DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I AM NOT A DESIGNER OF RECORD FOR THIS PROJECT.
THE PROJECT CONSISTS OF DRAWING SHEETS G0.0 THRU S.4.2
[Signatures and Seals]

HARRIS COUNTY
FIRE CODE DESIGN AND COMPLIANCE REVIEW SHEET VERSION 4.0 (03-01-2007)
REVISIONS
DATE SHEET NO.(S) DESCRIPTION
FIRE CODE REVIEW
SHEET NUMBER 1 OF 1

FIRE LANE



FIRE LANE DESIGNATION

FIRE LANE MARKING SPECIFICATIONS:
CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. WHERE A FIRE LANE PASSES BETWEEN HEAD-IN PARKING SPACES, THE RED STRIPE SHOULD BE PLACED ALONG THE REAR OF THESE SPACES CLEARLY DEFINING THE FIRE LANE. PAINTED CURBS AND FIRE LANE STRIPES SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE-TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET.

WHERE FIRE LANES ARE CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE NOT REQUIRED. FIRE LANE SIGNS SHOULD BE PLACED EVERY (75) FEET ALONG ANY FIRE LANE WHERE PAVEMENT OR CURB STRIPING IS NOT PRACTICAL.

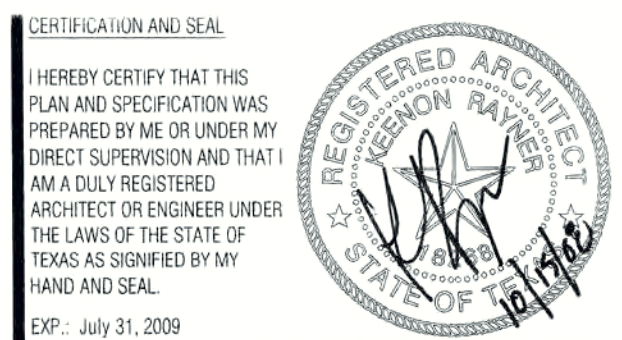
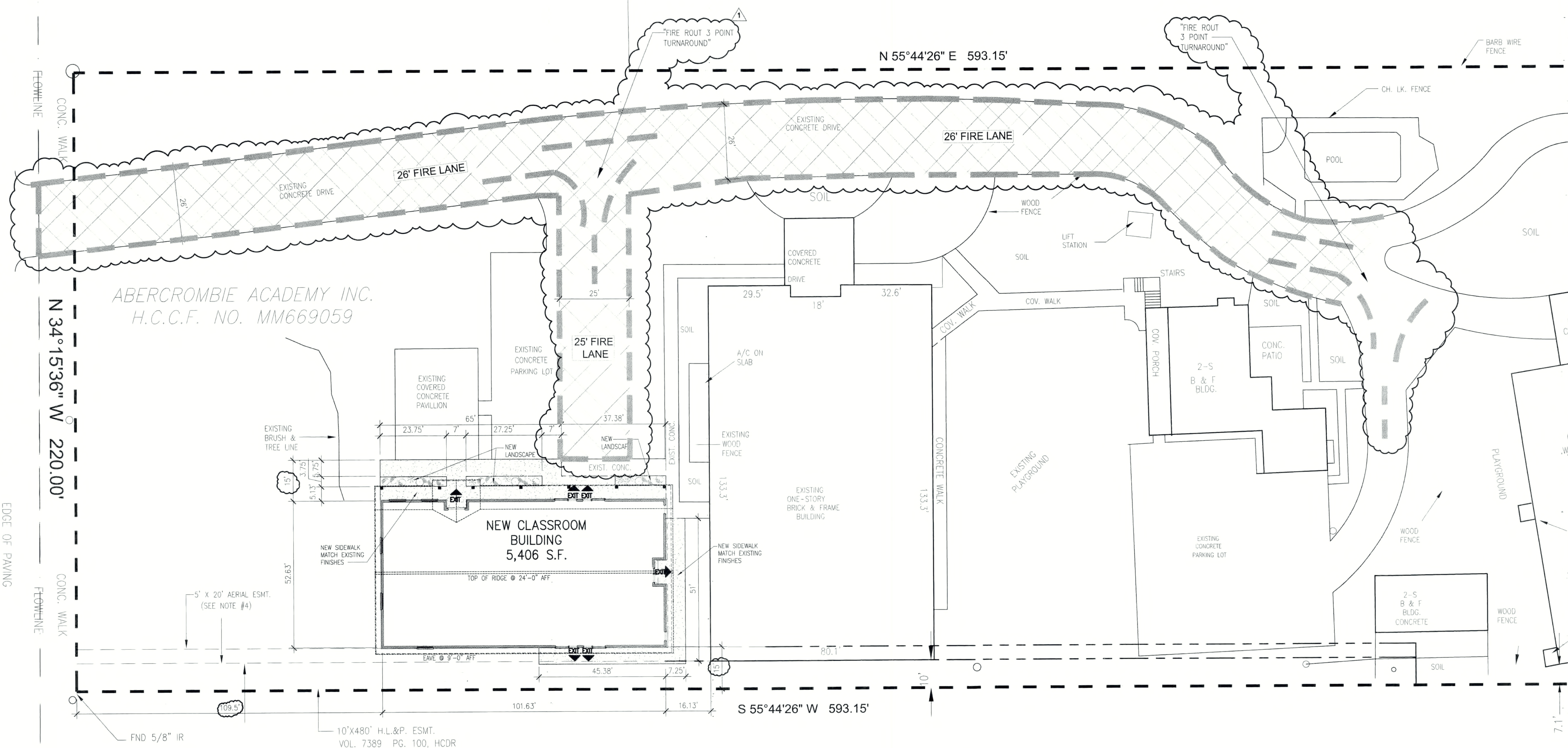
NOTE:

ALL NEW SIDEWALKS/ WALKING SURFACES SHOULD HAVE A SLOPE OF 1:50 (2.0%) (OR LESS) AT ANY POINT OR ANY DIRECTION TO MEED ADA.
SLOPES EXPRESSED IN TERMS OF 1/4 INCH PER FOOT SHALL BE CONSIDERED 2.0%.

FIRE HYDRANT

REFER TO CIVIL DRAWINGS FOR DIMENSIONS

THEISS MAIL ROAD



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MARK	REVISION / ISSUE	DATE
	ISSUED FOR PERMIT/PRICING	08/18/08
1	FIRE CODE COMMENTS	09/24/08
	ISSUED FOR CONSTRUCTION	10/15/08



8807 W. Sam Houston Parkway N., Suite 111
Houston, Texas 77040
Voice 281.970.5523 Fax 281.970.0382
www.identityarchitects.com

PROJECT NAME AND ADDRESS

ABERCROMBIE ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER DATE
18016-00 04.24.08

TITLE
SITE PLAN

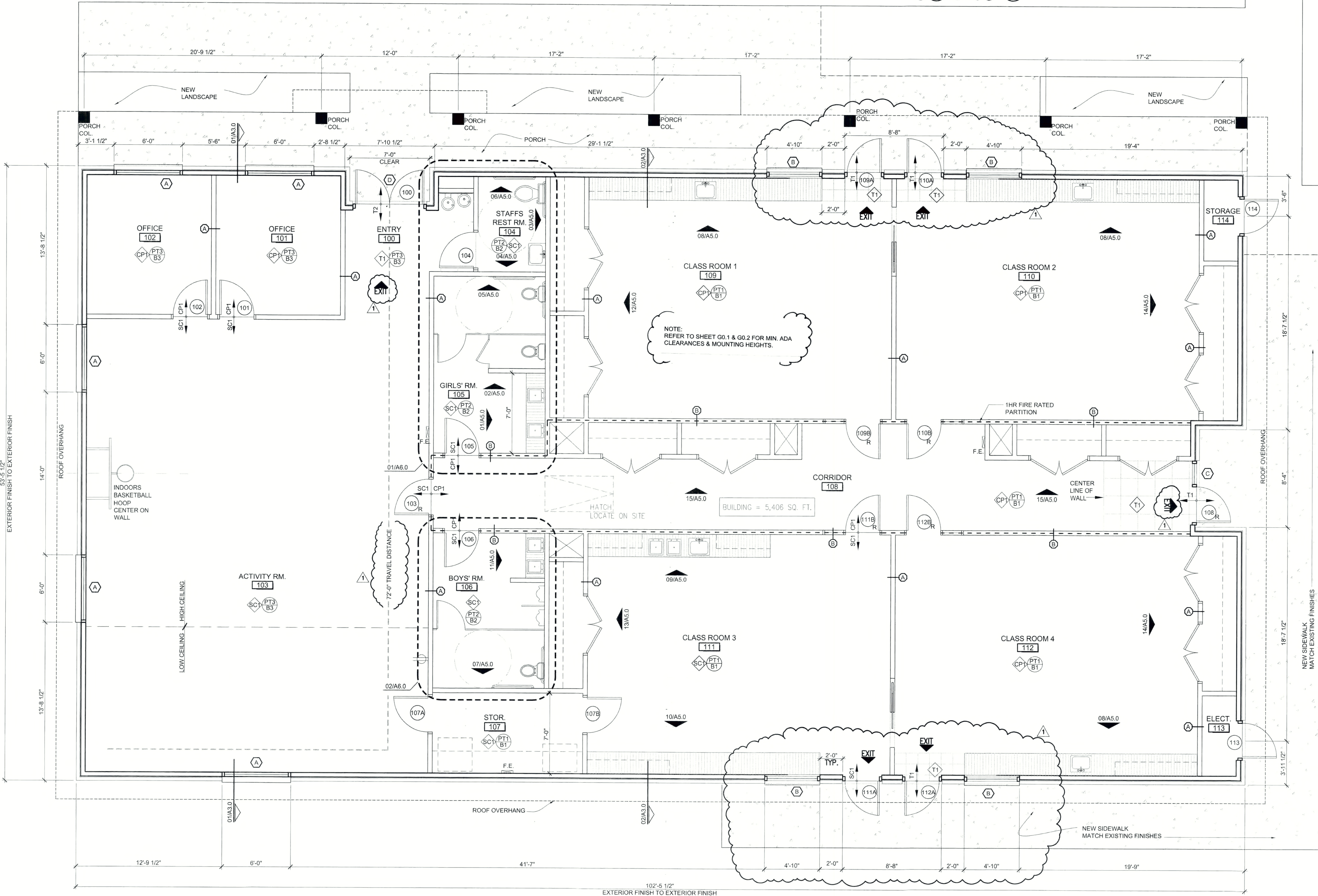
DRAWING NUMBER

A0.0

01 ARCHITECTURAL SITE PLAN
SCALE: 1"=20'



SYMBOLS LEGEND			FINISH SYMBOLS LEGEND				PARTITIONS	FIRE NOTES
	WALL/BASE FINISH	2 KEYED NOTE	CARPET	STAIN CONCRETE	BASE	PAINT	PARTITION A	FIRE NOTES
	WALL FINISH	REVISION	CP1 PATOCRAFT: RAZZLE 10118, PICTURESQUE # 00713	SC1	B1 JOHNSONITE: MW-XX-A, COLOR: 11 CANVAS	PT1 SHERWIN WILLIAMS, BEACH HOUSE #SW 7518 2 FINAL COATS MINIMUM	WOOD STUDS WITH 5/8" GYP. BD. ON EACH SIDE. TAKE WALLS TO THE BOTTOM OF CEILING	F.E. = PORTABLE FIRE EXTINGUISHERS PROVIDE 2-A FIRE EXTINGUISHER FOR CLASS A FIRE HAZARD.
	FLOOR FINISH	CHANGE IN FLOOR FINISHES	TILE			PT2 (ACCENT COLOR) SHERWIN WILLIAMS, TRANQUIL AQUA #SW 7611 2 FINAL COATS MINIMUM	PARTITION B	GC TO CONNECT NEW BUILDING TO EXISTING FIRE / EMERGENCY ALARM SYSTEM.
	DOOR NUMBER	WINDOW TYPE	T1 DALTILE: MONTICITO COLORBODY PORCELAIN COLOR: Crema M120 GROUT: LATICRETE			PT3 (ACCENT COLOR) SHERWIN WILLIAMS, SPROUT #SW 7728 2 FINAL COATS MINIMUM	WOOD STUDS WITH 5/8" GYP. BD. ON EACH SIDE. TAKE WALLS TO BOTTOM OF GYP. CEILING FIRE SEAL ALL PENETRATIONS. CONSTRUCT PER UL# U337, REFER TO COVER SHEET G0.0 FOR DETAILS.	



CERTIFICATION AND SEAL

I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF TEXAS AS SIGNED BY MY HAND AND SEAL.

EXP: July 31, 2009

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MARK	REVISION / ISSUE	DATE
	ISSUED FOR REVIEW	05/22/08
	ISSUED FOR PERMIT/PRICING	08/18/08
	FIRE CODE COMMENTS	09/24/08
	ISSUED FOR CONSTRUCTION	10/15/08

identityARCHITECTS

8807 W. Sam Houston Parkway N., Suite 111
Houston, Texas 77040
Voice 281.970.5523 Fax 281.970.0382
www.identityarchitects.com

PROJECT NAME AND ADDRESS

ABERCROMBIE ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
18016-00	04.24.08

TITLE

FLOOR PLAN / FINISH PLAN

DRAWING NUMBER

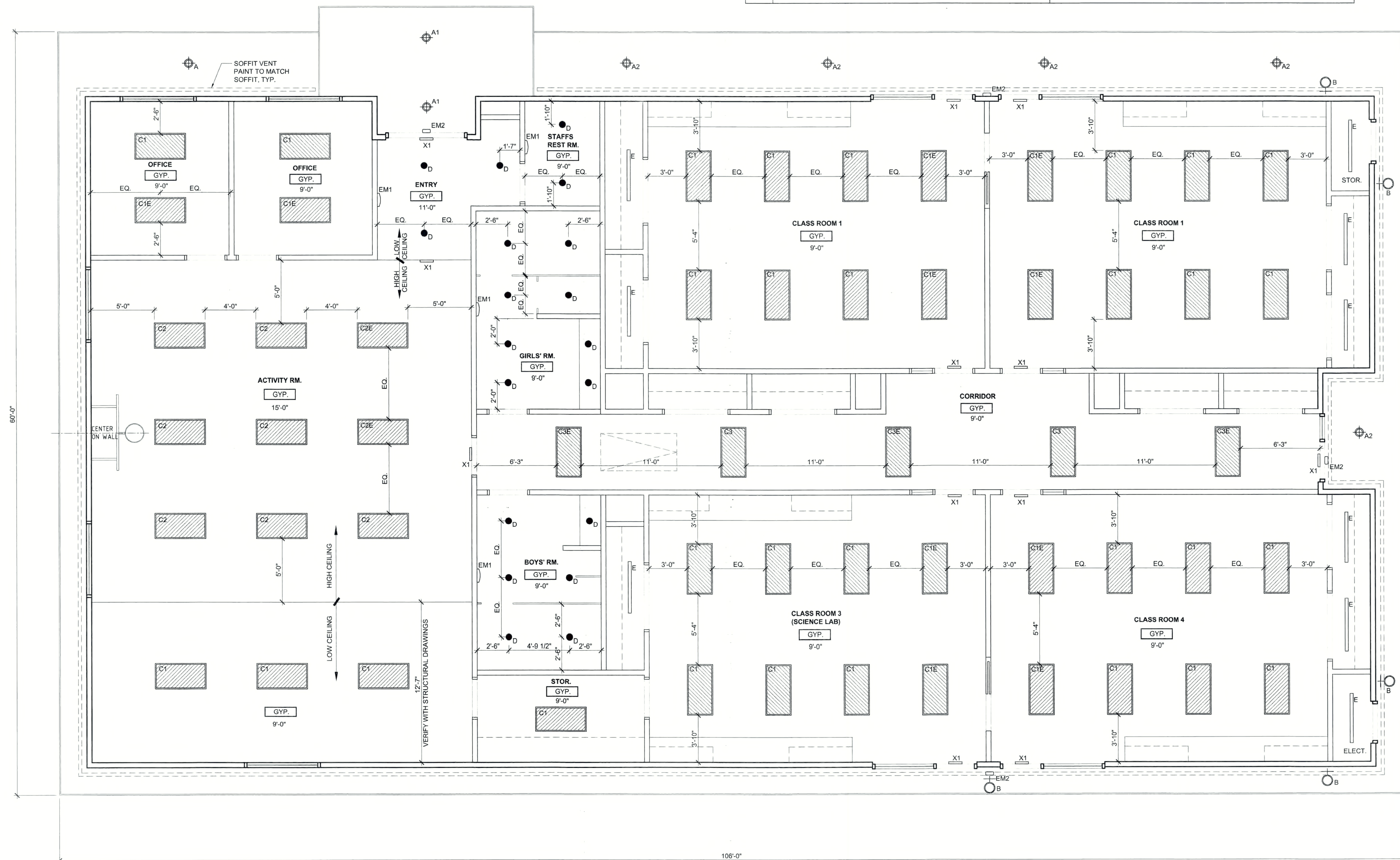
A1.0

NORTH

01 FLOOR PLAN
SCALE: 1/4" = 1'-0"

- | | |
|----------------|--|
| GENERAL NOTES: | |
| 1. | IF ANY LIGHT FIXTURE CANNOT BE INSTALLED AS NOTED OR SHOWN ON THIS PLAN DUE TO CONFLICTS WITH STRUCTURAL, MECHANICAL, OR ELECTRICAL ITEMS, OBTAIN CLARIFICATION BEFORE PROCEEDING WITH FIXTURES IN QUESTIONS OR RELATED OUTLETS IN AREA. |
| 2. | THE ARCHITECTURAL REFLECTED CEILING PLAN INDICATES LIGHT FIXTURE LOCATIONS ONLY. REFER TO ENGINEERING ELECTRICAL PLANS FOR CIRCUITING. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE LIGHT LOCATIONS ON THE ARCHITECTURAL AND ENGINEERING PLANS FOR CLARIFICATION. |
| 3. | THE CONTRACTOR IS TO COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA, AND SECURITY SYSTEMS WITH TENANT'S REPRESENTATIVE AND CONSULTANTS. |
| 4. | CONTRACTOR SHALL FIRE PROOF ALL NECESSARY FIXTURES TO COMPLY WITH APPLICABLE CODES |

LIGHTING SYMBOLS			
A1	OMEGA LIGHTING-REVELATION: EXTERIOR SURFACE MOUNTED INCANDESCENT DOWNLIGHT. CAT.# OM6100A19PC-BBSPL-FL-FINISH	C-3E	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR232-FS01-UNV-1/2-EB-E5ST
A2	OMEGA LIGHTING-REVELATION: EXTERIOR SURFACE MOUNTED INCANDESCENT DOWNLIGHT. CAT.# OM6H100A19SC-BBSPL-FL-FINISH	D	OMEGA LIGHTING-REVELATION: INTERIOR RECESSED INCANDESCENT DOWNLIGHT. CAT.# OM6100A19-CS
B	ASCENT: ROUNDTOP 1A SERIES OUTDOOR, WALL SCONCE. CAT.# RT-1A-802	E	DAY-BRITE LIGHTING: STANDARD STRIP FIXTURE CAT#:. T232-UNV-1/2-EB
C-1	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR332-FS01-UNV-1/3-EB	E-M1	mcPHILBEN: CAX SERIES COMPAC, SEMI-RECESSED HEAD THERMOPLASTIC EMERGENCY UNIT. CAT.# CAX6H-120
C-1E	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR332-FS01-UNV-1/3-EB-E5ST	E-M2	mcPHILBEN: PATRON SERIES, DIE-CAST ALUMINUM EMERGENCY UNIT. CAT.# PDN-FINISH 120 VOLTAGE.
C-2*	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR432-FS56-UNV-1/4-EB	X-1	mcPHILBEN: CXX SERIES COMPAC, THERMOPLASTIC LED EXIT. CAT.# CXXL-3-R-W-FB
C-2E	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR432-FS56-UNV-1/4-EB-E5ST	(NOTE FOR C2) * PROVIDE THE FOLLOWING LENS BY DAY-BRITE IF OWNER CONSIDERS NECESSARY IN ACTIVITY ROOM. VANGUARD GRIDLESS OCTEX (LENS CODE 56). HIGH IMPACT ACRYLIC.	
C-3	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR232-FS01-UNV-1/2-EB		



CERTIFICATION AND SEAL

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CP.: July 31, 2009

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MARK	REVISION / ISSUE	DATE
	ISSUED FOR PERMIT/PRICING	08/11/2015
	ISSUED FOR CONSTRUCTION	10/11/2015

entity ARCHITECTURE

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PROJECT NAME AND ADDRESS

ABERCROMBIE
ACADEMY

7102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER
0016-00

REFLECTED
CEILING PLAN

DRAWING NUMBER

A1.

NORTH

01 REFLECTED CEILING PLAN

Proposed addition - load calculation

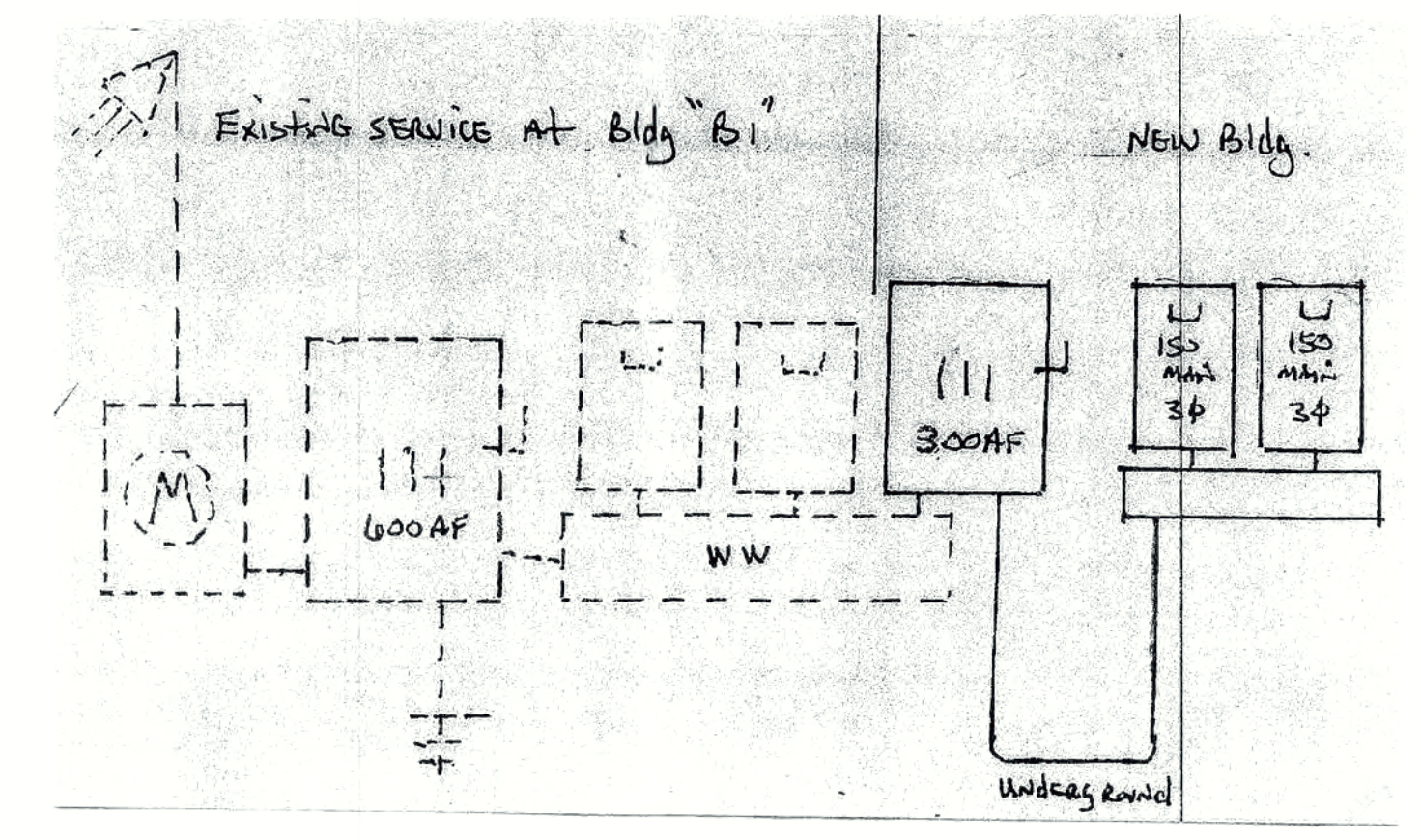
120/240v., 3 phase, 4 wire

Lighting, code 5400x3.25x1.25	A	B	C	N
Lighting actual 18000 watts, omit	91	-	91	91
Receptacles 50x180-9000	38	-	38	38
Water heater 4500	19	-	19	-
A/C omit, less than heat	-	-	-	-
Heat 45,000	108	108	108	-
Largest motor	18	18	18	-
Total load	274	126	274	129

Existing Service: 600 Amp Building "B1"

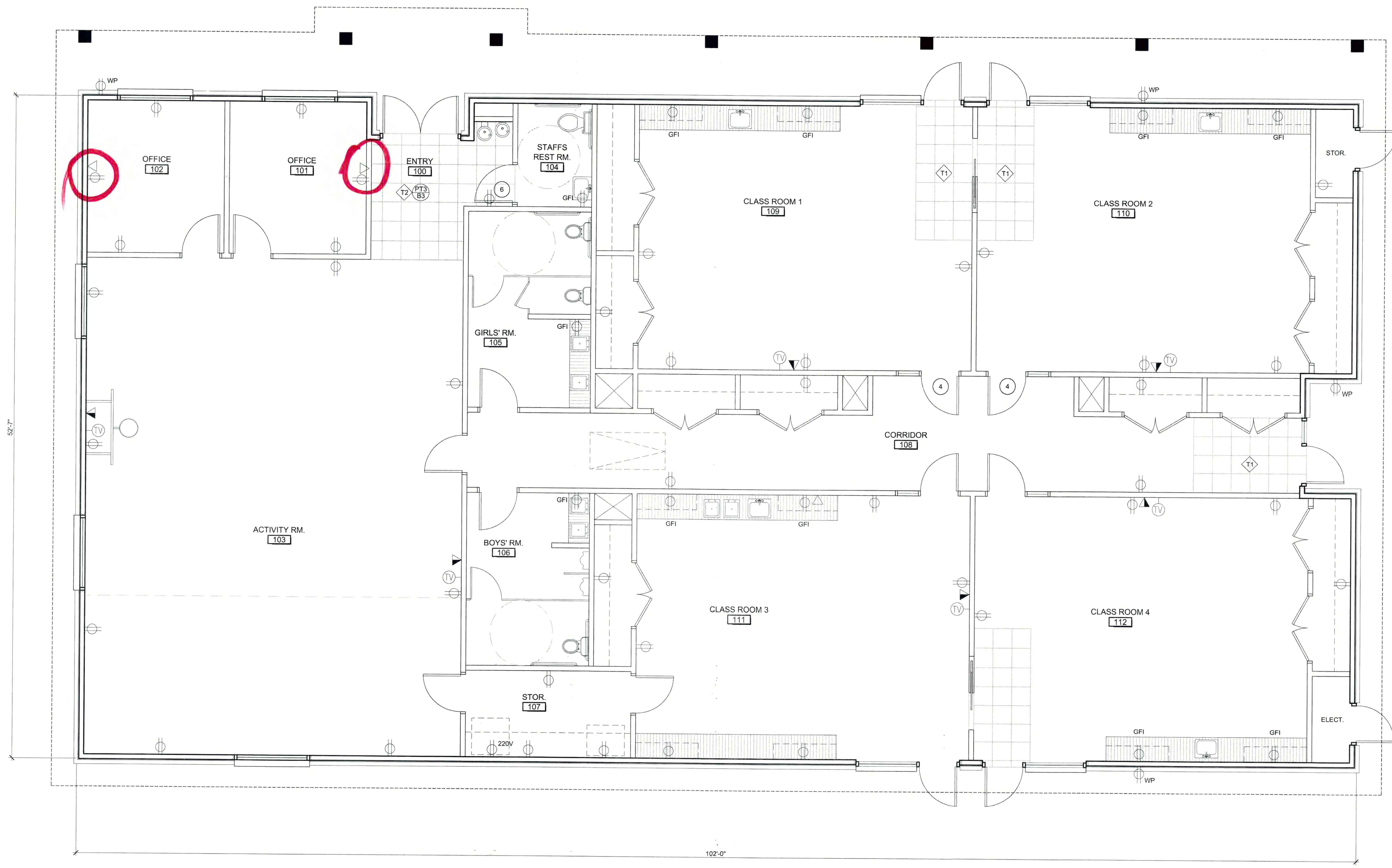
120/240, 3 phase, 4 wire

Phases	A	B	C	N
Existing Peak KVA 84	202	202	202	202
Existing Peak x .25	51	51	51	51
New Building, Added Load	224	126	274	129
Total Load	527	379	527	382



LEGEND

	DUPLEX RECEPTACLE
	PHONE
	PHONE / DATA
	TV



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EXP: July 31, 2009

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MARK	REVISION / ISSUE	DATE
	ISSUED FOR REVIEW	05/22/08
	ISSUED FOR PERMIT/PRICING	08/18/08
	ISSUED FOR CONSTRUCTION	10/15/08

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PROJECT NAME AND ADDRESS

ABERCROMBIE ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER DATE

18016-00 04.24.08

TITLE

POWER PLAN

DRAWING NUMBER

A1.2

01 POWER PLAN

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

THESE NOTES TYPICAL UNLESS INDICATED OTHERWISE

6. ALL STRUCTURAL AND NON-STRUCTURAL WOOD TO BE FIRE RATED.
7. INSTALL CONTINUOUS SOFFIT VENT AS CLOSE TO THE FASCIA AS POSSIBLE. VENTING SHALL BE CLOG RESISTANT AND INSECT PROOF. REFER TO RCP FOR LOCATION.

— PORCH COLUMN BELOW



6:12
SLOPE

$$\frac{6:12}{\text{SLOPE}}$$

PREFINISGED MTL. GUTTER

OUTLINE OF BUILDING BELOW

COMPOSITION ROOF

RIDGE VENT

COMPOSITION ROOF

OUTLINE OF BUILDING BELOW

PREFINISGED MTL. GUTTER

01 ROOF PLAN

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

CERTIFICATION AND SEAL

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ISSUED FOR PERMIT/PRICING	08/18/08
ISSUED FOR CONSTRUCTION	10/15/08

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PROJECT NAME AND ADDRESS

ABERCROMBIE
ACADEMY

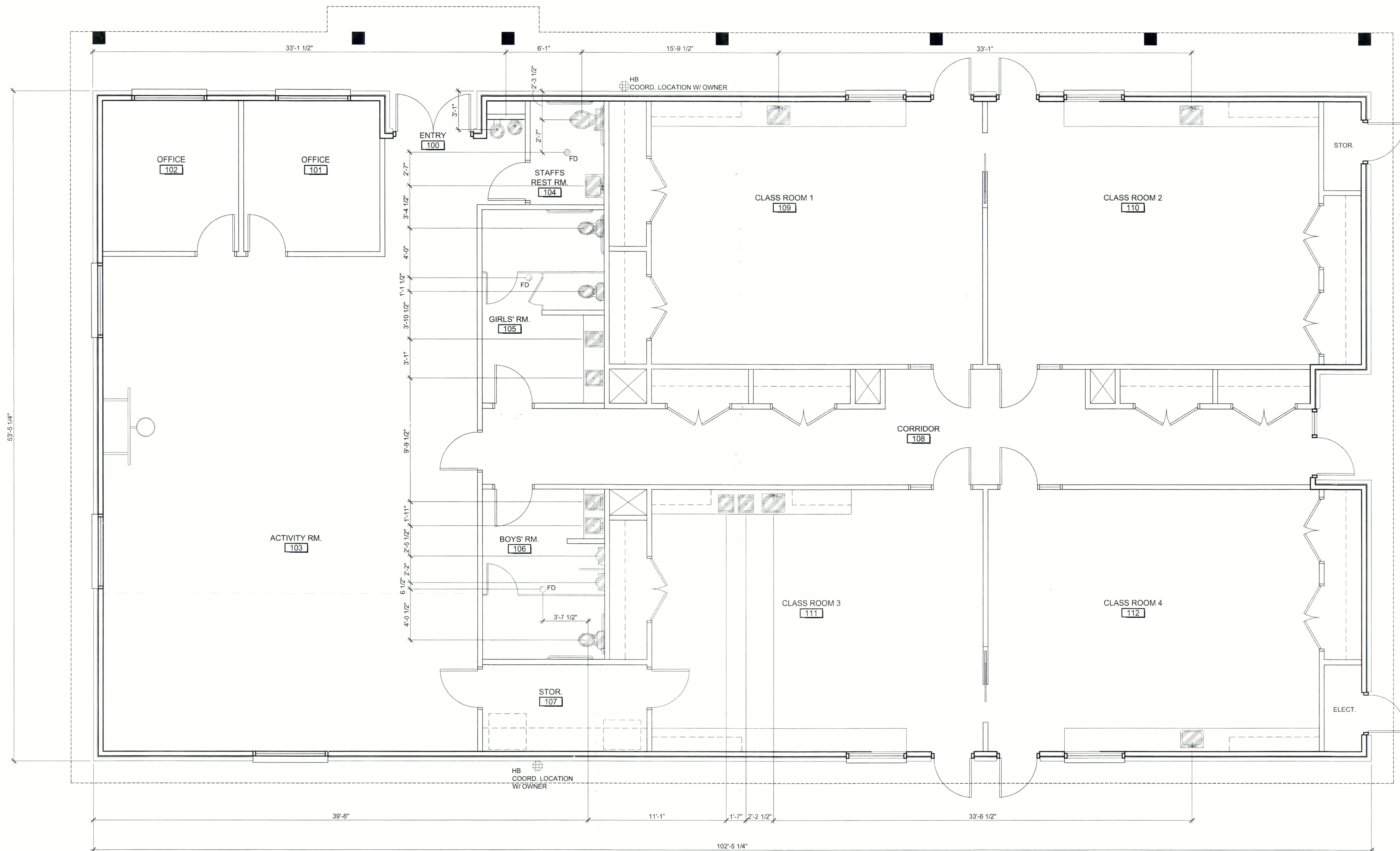
17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
I8016-00	04.24.08

TITLE
ROOF PLAN

DRAWING NUMBER

A1.3



01 PLUMBING PLAN

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

CERTIFICATION AND SEAL

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MARK	REVISION / ISSUE	DATE
	ISSUED FOR REVIEW	05/22/08
	ISSUED FOR PERMIT/PRICING	08/18/08
▲	CLARIFICATIONS	09/24/08
	ISSUED FOR CONSTRUCTION	10/15/08



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PROJECT NAME AND ADDRESS

**ABERCROMBIE
ACADEMY**

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
18016-00	04.24.08

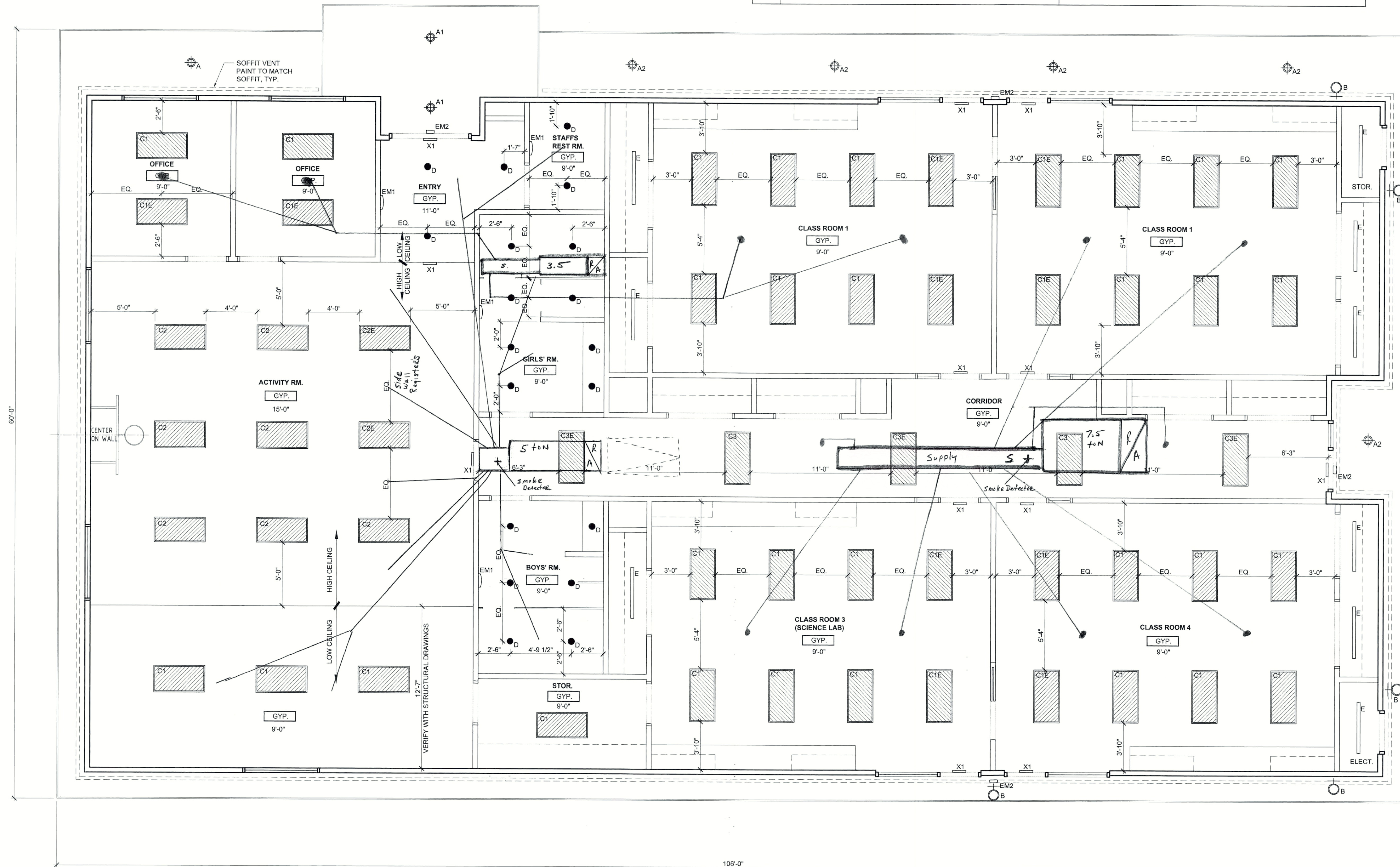
TITLE
PLUMBING PLAN

DRAWING NUMBER

A1.4

- | |
|---|
| GENERAL NOTES: |
| <ol style="list-style-type: none"> 1. IF ANY LIGHT FIXTURE CANNOT BE INSTALLED AS NOTED OR SHOWN ON THIS PLAN DUE TO CONFLICTS WITH STRUCTURAL, MECHANICAL, OR ELECTRICAL ITEMS, OBTAIN CLARIFICATION BEFORE PROCEEDING WITH FIXTURES IN QUESTIONS OR RELATED OUTLETS IN AREA. 2. THE ARCHITECTURAL REFLECTED CEILING PLAN INDICATES LIGHT FIXTURE LOCATIONS ONLY. REFER TO ENGINEERING ELECTRICAL PLANS FOR CIRCUITING.
NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE LIGHT LOCATIONS ON THE ARCHITECTURAL AND ENGINEERING PLANS FOR CLARIFICATION. 3. THE CONTRACTOR IS TO COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA, AND SECURITY SYSTEMS WITH TENANT'S REPRESENTATIVE AND CONSULTANTS. 4. CONTRACTOR SHALL FIRE PROOF ALL NECESSARY FIXTURES TO COMPLY WITH APPLICABLE CODES. |

LIGHTING SYMBOLS		
A1	OMEGA LIGHTING-REVELATION: EXTERIOR SURFACE MOUNTED INCANDESCENT DOWNLIGHT. CAT.# OM6100A19PC-BBSPL-FL-FINISH	C-3E DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR232-FS01-UNV-1/2-EB-E5ST
A2	OMEGA LIGHTING-REVELATION: EXTERIOR SURFACE MOUNTED INCANDESCENT DOWNLIGHT. CAT.# OM6H100A19SC-BBSPL-FL-FINISH	D OMEGA LIGHTING-REVELATION: INTERIOR RECESSED INCANDESCENT DOWNLIGHT. CAT.# OM6100A19-CS
B	ASCENT: ROUNDTOP 1A SERIES OUTDOOR, WALL SCNOC. CAT.# RT-1A-802	E DAY-BRITE LIGHTING: STANDARD STRIP FIXTURE CAT# T232-UNV-1/2-EB
C-1	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR332-FS01-UNV-1/3-EB	E-M1 mcPHILBEN: CAX SERIES COMPAC, SEMI-RECESSED HEAD THERMOPLASTIC EMERGENCY UNIT. CAT.# CAX6H-120
C-1E	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR332-FS01-UNV-1/3-EB-E5ST	E-M2 mcPHILBEN: PATRON SERIES, DIE-CAST ALUMINUM EMERGENCY UNIT. CAT.# PDN-FINISH 120 VOLTAGE.
C-2*	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR432-FS56-UNV-1/4-EB	X-1 mcPHILBEN: CXX SERIES COMPAC, THERMOPLASTIC LED EXIT. CAT.# CXXL-3-R-W-FB
C-2E	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR432-FS56-UNV-1/4-EB-E5ST	(NOTE FOR C2) * PROVIDETHE FOLLOWING LENS BY DAY-BRITE IF OWNER CONSIDERS NECESSARY IN ACTIVITY ROOM, VANGUARD GRIDLESS OCTEX (LENS CODE 56). HIGH IMPACT ACRYLIC.
C-3	DAY-BRITE LIGHTING: 2' X 4' SURFACE MOUNTED CAT.# 2SMR232-FS01-UNV-1/2-EB	



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[illegible]

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PROJECT NAME AND ADDRESS

ABERCROMBIE
ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
I8016-00	04.24.08

TITLE	MECHANICAL PLAN
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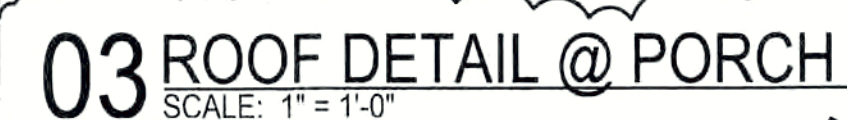
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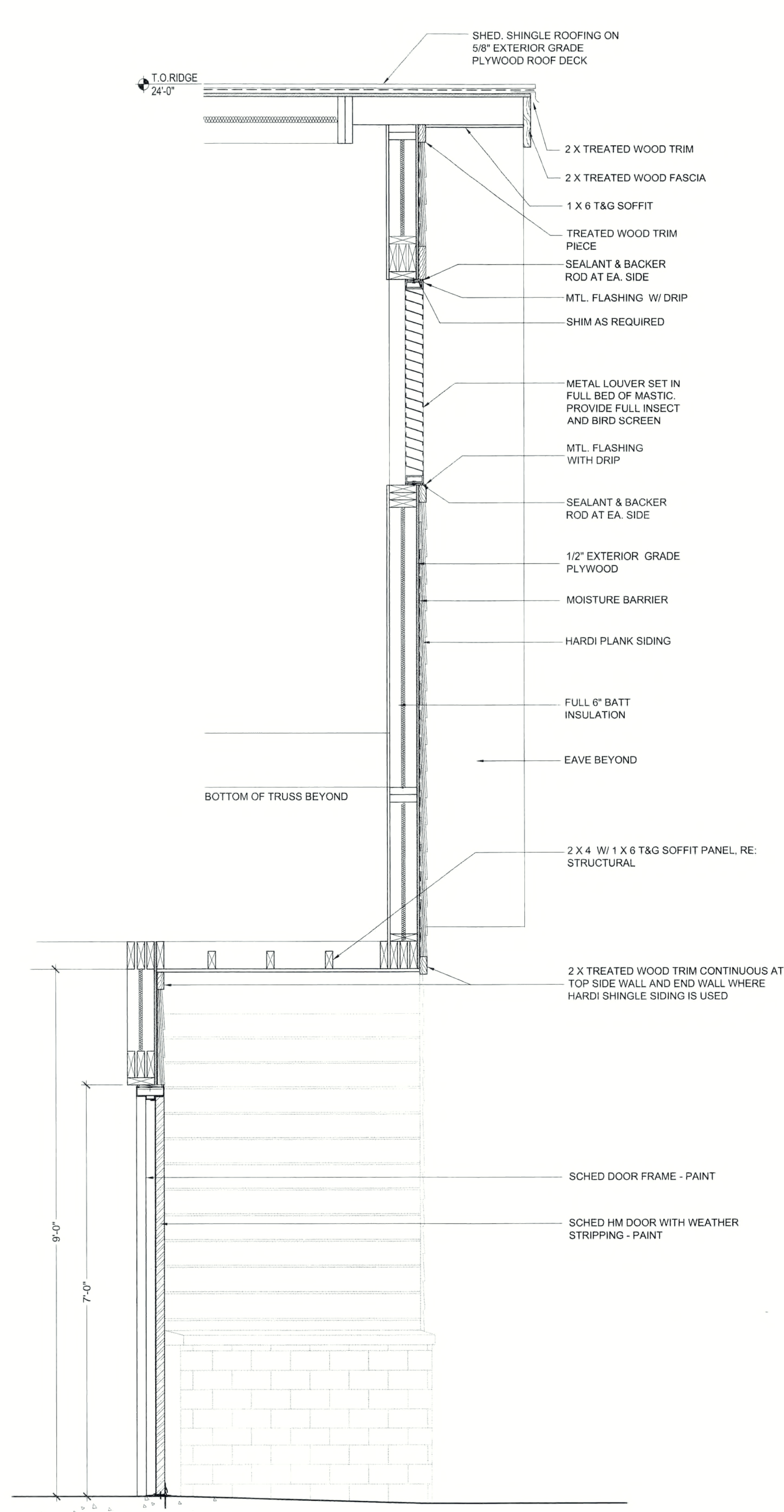
A1.5

01 MECHANICAL PLAN

A2.0

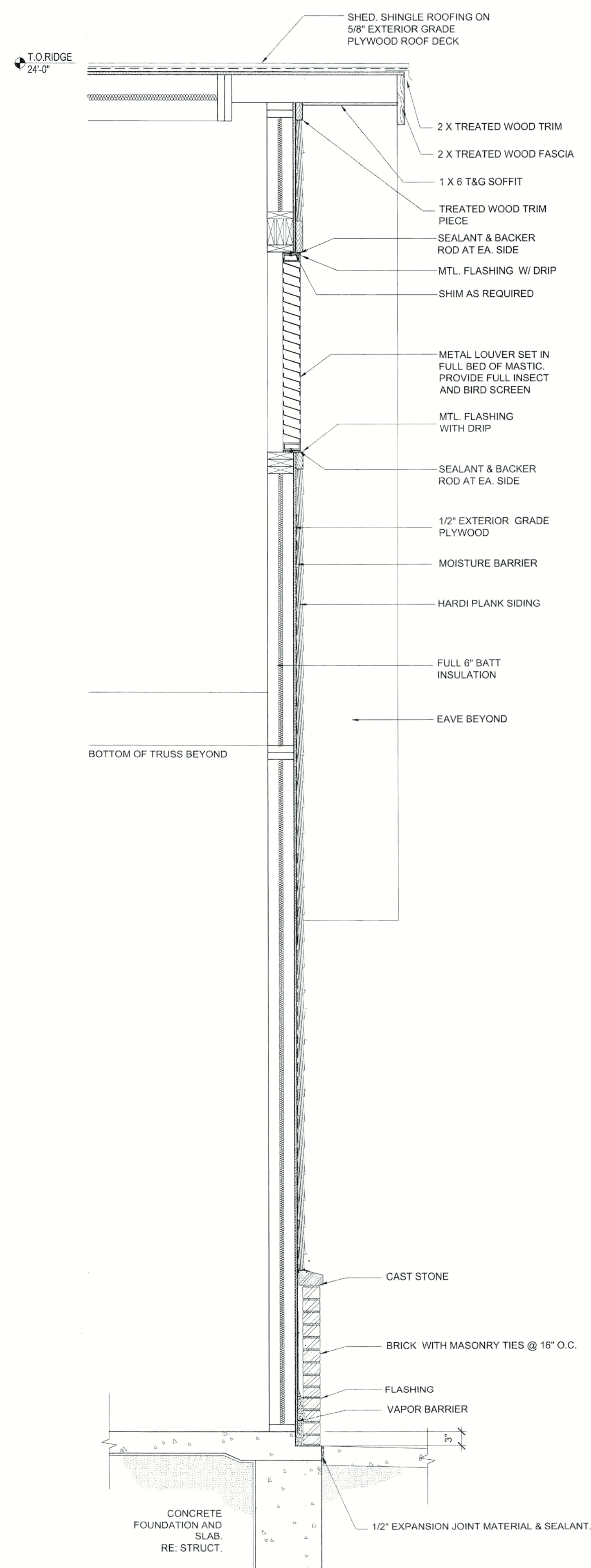






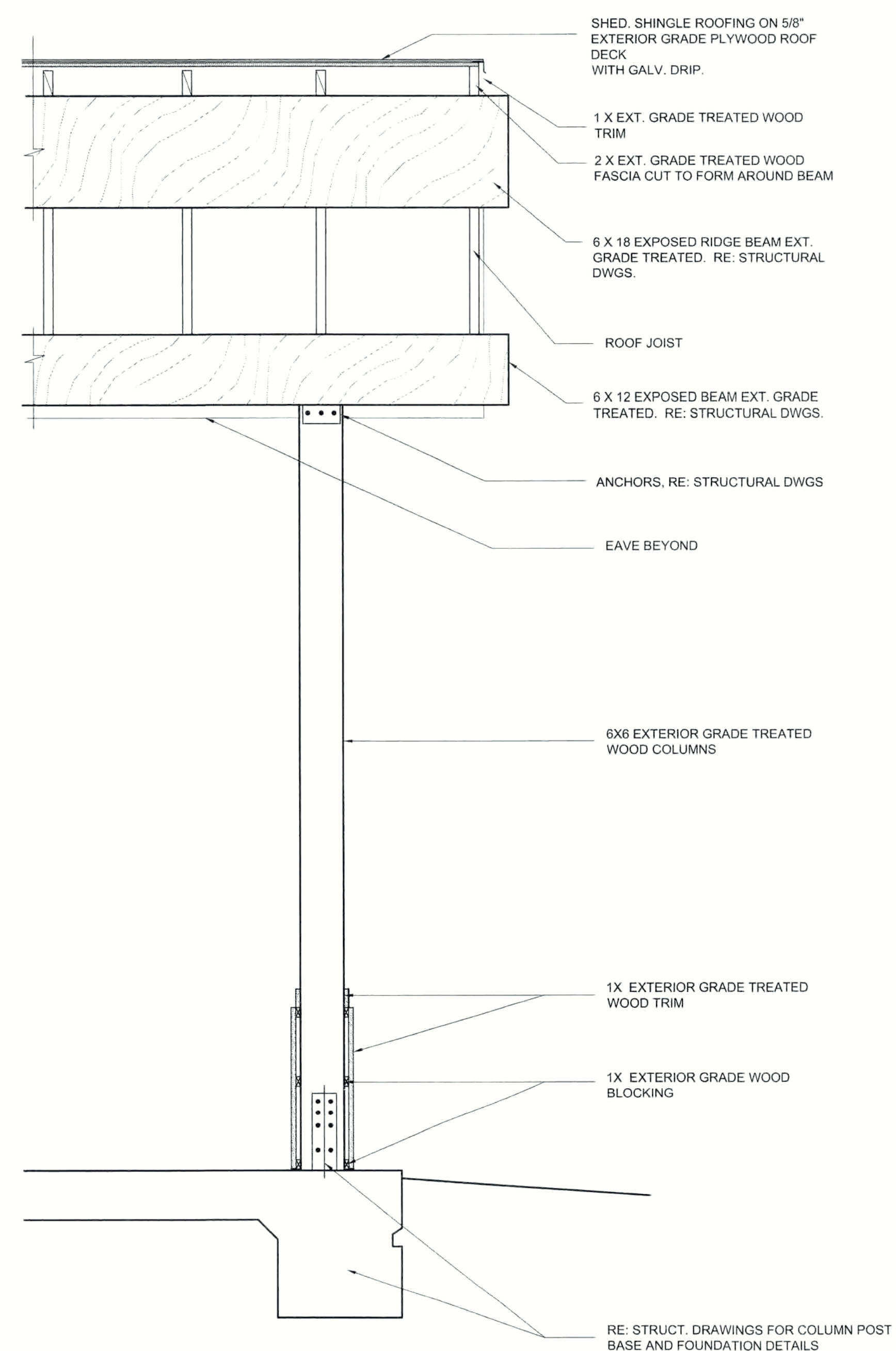
03 BLDG. SECTION
SCALE: 3/4" = 1'-0"

SCAIF: $3/4" = 1'-0"$



02 BLDG. SECTION
SCALE: 3/4" = 1'-0"

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



01 TYP. BLDG. SECTION
SCALE: 3/4" = 1'-0"

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

CERTIFICATION AND SEAL

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EXP.: July 31, 200

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[illegible]

ISSUED FOR CONSTRUCTION 10/15/0



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PROJECT NAME AND ADDRESS

ABERCROMBIE
ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
18016-00	04.24.08

18016-00 04.24.08

TITLE
WALL SECTIONS

DRAWING NUMBER

A3.1

[illegible]

01 GIRLS' RM. 105
SCALE: 3/8" = 1'-0"

K#	DOOR#	HWSET	MODE	WIDTH	HEIGHT	THICK	DOOR	FRAME	FRAME TYPE	RATING	OUTSIDE LOCATION	INSIDE LOCATION
0	100	09	PR	6'-0"	6'-10"	1 3/4"	WD	WDF	A	NON-RTD	EXTERIOR	ENTRY
	101	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	NON-RTD	ACTIVITY	OFFICE
2	102	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	NON-RTD	ACTIVITY	OFFICE
	103	04	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	ACTIVITY	CORRIDOR
4	104	02	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	NON-RTD	ENTRY	STAFF'S RESTROOM
5	105	05	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	GIRLS' RESTROOM
6	106	05	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	BOYS' RESTROOM
7A	107A	03	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	NON-RTD	ACTIVITY	STORAGE
7B	107B	03	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	NON-RTD	CLASS RM. 3	STORAGE
	108	08	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	B	NON-RTD	EXTERIOR	CORRIDOR
9A	109A	08	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	B	NON-RTD	EXTERIOR	CLASS RM. 1
9B	109B	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	CLASS RM. 1
10A	110A	08	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	B	NON-RTD	EXTERIOR	CLASS RM. 2
10B	110B	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	CLASS RM. 2
11A	111A	08	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	B	NON-RTD	EXTERIOR	CLASS RM. 3
11B	111B	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	CLASS RM. 3
12A	112A	08	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	B	NON-RTD	EXTERIOR	CLASS RM. 4
12B	112B	01	SGL	3'-0"	6'-10"	1 3/4"	WD	WDF	D	RATED	CORRIDOR	CLASS RM. 4
14	114	06	SGL	3'-0"	6'-10"	1 3/4"	HMD	HMF	C	NON-RTD	EXTERIOR	STORAGE
13	113	06	SGL	3'-0"	6'-10"	1 3/4"	HMD	HMF	C	NON-RTD	EXTERIOR	ELECT.

GENERAL NOTES:

THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. LIMITED SITE VISITS IF ANY BY THE STRUCTURAL ENGINEER ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY.

PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT SHOWN.

ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS.

SHOP DRAWINGS SHALL BE NEW DRAWINGS PRODUCED BY THE CONTRACTOR. ILLEGIBLE REPRODUCTIONS OF THE DESIGN DRAWINGS WILL BE REJECTED. ELECTRONIC FILES MAY BE PURCHASED FROM THE ENGINEER OF RECORD FOR THE PURPOSE OF PREPARING SHOP DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO SIGN AN INDEMNITY STATEMENT AND FEES FOR THE ELECTRONIC FILES SHALL BE PAID IN FULL PRIOR TO TRANSMISSION OF THE ELECTRONIC FILES TO THE CONTRACTOR. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREON.

FOOTINGS SHALL BE POURED IMMEDIATELY UPON COMPLETION OF EXCAVATION AND CLEANING OF FOOTING BEARING SURFACE. ALL SPOILS FROM THE DRILLED FOOTING EXCAVATIONS SHALL BE REMOVED FROM THE BUILDING PAD.

CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES ARE NOT TO BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS.

ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL, OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF THREE DAYS.

WHERE A DRILLED FOOTING IS SHOWN ON THE PLAN CLOSER THAN 6'-0" FROM ANOTHER FOOTING, DRILL ONE FOOTING; FILL WITH CONCRETE AND LET CURE 24 HOURS PRIOR TO DRILLING THE ADJACENT FOOTING. (6'-0" DIMENSION IS MEASURED BETWEEN EDGE OF BELL FOOTING NOT CENTER TO CENTER.)

NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL, UPWARD OR DOWNWARD LOADS. IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTIONS IN THE SOIL REPORT. THE ARCHITECT SHALL ADVISE THE OWNER THAT THE PERFORMANCE OF THE SLAB INVOLVES SOME RISKS AND IS DEPENDENT ON MANY ENVIRONMENTAL CONDITIONS OVER WHICH THE OWNER HAS CONTROL. OF AFTER OCCUPANCY OF THE BUILDING, THE CONTRACTOR AND THE OWNER SHOULD CONSULT WITH THE SOIL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING CONSTRUCTION, PERFORMANCE AND RISKS INVOLVED IN GROUND SUPPORTED SLAB AT GRADE CONSTRUCTION.

DESIGN CRITERIA:

BUILDING CODE:	2003 INTERNATIONAL BUILDING CODE
LIVE LOAD:	
ROOF:	20 PSF
WIND LOAD:	
VELOCITY:	110 MPH THREE SECOND GUST
EXPOSURE:	B
IMPORTANCE:	lw= 1.15
ALLOWABLE SOIL BEARING CAPACITY (AT 9'-0" BELOW EXISTING GRADE)	
TOTAL LOAD	6000 PSF
DEAD LOAD	4000 PSF

EARTHWORK NOTES:

- SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT AND VEGETATION AND ORGANIC MATTER AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT A MINIMUM OF 5'-0" BEYOND THE PERIMETER OF THE BUILDING.
- THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 12 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SELECT FILL.
- SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN [95 AND 100] PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN [OPTIMUM AND +3] PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
- SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE AN INORGANIC SANDY CLAY WITH A LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 10 AND 20. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED.
- SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -2 AND +3 PERCENT OF THE OPTIMUM PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN [OPTIMUM AND +3] PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON EACH LIFT OF SELECT FILL OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
- SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.
- PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE THE WATER VAPOR RETARDER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10).
- CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
- THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.
- PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A BENTONITE PLUG FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.

SITE DRAINAGE:

- GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDINGS OR SLABS.
- DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. DOWNSPOUTS SHALL DUMP ONTO A CAST IN PLACE 4" THICK X 3'-0" WIDE CONCRETE SWALE REINFORCED WITH #4 AT 12 INCHES ON CENTER EACH WAY AND EXTENDING 10'-0" FROM THE BUILDING WHEN NOT PIPED AWAY FROM THE BUILDING.
- TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
- IRRIGATE VEGETATION AND SOILS ADJACENT TO THE BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK) ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS FOLLOWING CONSTRUCTION.

FOUNDATIONS:

- PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL PLASTIC WATER VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E 1745, CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER PERMEANCE OF 0.012 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE WATER VAPOR RETARDER SHALL BE INSTALLED AND LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 1643. PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT BY LONE STAR GEOTECHNICAL, REPORT NO. 0806007-1, DATED JUNE 24, 2008. THE RECOMMENDATIONS CONTAINED IN THE SOIL REPORT SHALL NOT SUPERCEDE THE INFORMATION SHOWN ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS.
- FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF ONE FEET OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND EXTENDING 5'-0" MINIMUM BEYOND THE BUILDING.
- ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT 5'-0" MINIMUM BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A BENTONITE PLUG SHALL BE PROVIDED IN ALL UTILITY TRENCHES AT THE FACE OF THE BUILDING FOUNDATION. SEE DETAIL 10/53.2 FOR DETAIL AT PIPE BUILDING ENTRY.
- CONDUITS SHALL NOT BE PLACED IN THE CONCRETE SLAB. CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL BENEATH THE VAPOR RETARDER. ALL PENETRATIONS OF THE VAPOR RETARDER SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE A UNIT COST FOR REPLACING DRILLED FOOTINGS SHOWN WITH STRAIGHT SHAFT DRILL FOOTINGS IN THE EVENT FOOTING BELLS CAVE BEFORE CONCRETE CAN BE PLACED. UNIT COST SHALL INCLUDE EXCAVATION AND CONCRETE PLACEMENT. STRAIGHT SHAFTS SHALL HAVE SAME DIAMETER AS BELL SIZE SHOWN ON THE PLANS. VERTICAL REINFORCING SHALL BE THE SAME AS SCHEDULED FOR THE BELLED FOOTING.
- CONTRACTOR SHALL BE PREPARED TO USE TEMPORARY CASING AS REQUIRED TO FINISH THE DRILLED FOOTINGS. CASING SIZE SHALL HAVE AN INTERIOR DIAMETER EQUAL TO THE SPECIFIED SHAFT SIZE SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR A DRY DRILLED SHAFT AND FOR A CASSED DRILLED SHAFT.
- THE BUILDING SITE MAY HAVE SOME BURIED EXISTING FOUNDATIONS AND UTILITIES. IF THESE FOUNDATIONS OR UTILITIES ARE ENCOUNTERED DURING DRILLING OPERATIONS, THE SINGLE DRILLED FOOTING SHALL BE REPLACED WITH TWO SYMMETRICALLY PLACED FOOTINGS AND A STRAP BEAM AS SHOWN IN DETAIL 7/53.2. THE CONTRACTOR SHALL PROVIDE A UNIT COST FOR EACH OCCURENCE. SEAL ANY UTILITY LINES DISCOVERED WITH CONCRETE.

CONCRETE:

- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS SHALL CONFORM TO ASTM A615, GRADE 40. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70.
- CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT, AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

UNDERREARM FOOTINGS	3000 PSI
ALL OTHER CONCRETE	3000 PSI

CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.
- ALL WELDED WIRE FABRIC SHALL BE SMOOTH ROUND WIRE IN FLAT SHEETS AND SHALL CONFORM TO ASTM A185.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS: SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED. CHAIR REINFORCEMENT TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 45 INCH MAXIMUM INTERVALS OR EVERY THIRD BAR.

FOOTINGS	3 IN.
GRADE BEAMS	3 IN. BOT., 2 IN. SIDE (3" EARTH FORMED), 1-1/2 IN. TOP
SLAB ON GRADE	1 IN. TOP

FORM REMOVAL FOR HORIZONTAL CONCRETE FRAMING SHALL NOT TAKE PLACE UNTIL THE CONCRETE HAS REACHED 70 PERCENT OF THE 28-DAY COMPRESSIVE STRENGTH INDICATED. FLOOR SLABS AND BEAMS SHALL BE RESHORED UNTIL UPPER MOST LEVEL OF CONCRETE HAS REACHED 70 PERCENT OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH FOR BUILDINGS MORE THAN THREE STORES IN HEIGHT RE-SHORING SHALL BE MAINTAINED FOR THREE LEVELS BELOW, UNTIL UPPER MOST LEVEL HAS REACHED 70 PERCENT OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION. ALL HOOKED BARS SHOWN IN DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
- REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- UNLESS OTHERWISE NOTED CONTINUOUS BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP REINFORCING BARS SHALL BE SPLICED AT MID-SPAN.
- ALL CONTINUOUS REINFORCEMENT SHALL LAP 40 BAR DIAMETERS AT SPLICES. PROVIDE 1-#6x 6'-0" TOP AND BOTTOM (TWO 36" LEGS WITH 90 DEGREE BEND) AT EACH FACE OF GRADE BEAMS AT CORNERS AND INTERSECTIONS, AND AT 18" ON CENTER VERTICALLY AT WALLS.
- CONDUITS ARE NOT ALLOWED IN SLABS, BEAMS, WALLS OR COLUMNS. ALL CONDUITS SHALL BE SUSPENDED FROM OR ATTACHED TO THE CONCRETE STRUCTURE.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301, LATEST EDITION.
- ALL BASE PLATES AND ANCHOR BOLTS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR BOLTS SHALL BE FABRICATED FROM FULL BOKED F1554 STEEL RODS HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992 AND ALL ANGLES, BARS, CHANNELS, AND PLATES SHALL CONFORM TO ASTM A36. ALL SQUARE AND RECTANGULAR TUBES (BY 48KS) SHALL CONFORM TO ASTM A500 GRADE B AND ROUND PIPES (BY 36KS) SHALL CONFORM TO ASTM A53, GR. B. ALL COLD-FORMED GIRTS AND PURLINS SHALL CONFORM TO ASTM A570M GR.50.
- PROVIDE ALL NECESSARY HOLES IN MISCELLANEOUS STRUCTURAL STEEL MEMBERS FOR ATTACHMENT OF NON-STRUCTURAL ITEMS (IE: HOLES FOR WINDOW HEAD ANCHORS), SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL BRICK SUPPORT ANGLES ARE DESIGNED TO FULLY SUPPORT THE BRICK VENEER WITH SOME NORMAL DEFLECTION AS THE BRICK IS INSTALLED. BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE DURING CONSTRUCTION. SHORING THE BRICK DURING CONSTRUCTION CAN RESULT IN HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.

TIMBER NOTES:

- TIMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, NATIONAL FOREST PRODUCTS ASSOCIATES LATEST EDITION.
- MATERIALS FOR FRAMING LUMBER SUBJECT TO BENDING STRESSES SUCH AS BEAMS, JOISTS, RAFTERS, HEADERS, AND OTHER HORIZONTAL MEMBERS SHALL BE SOUTHERN PINE NO. 2 KD (MC 15) CONSTRUCTION MINIMUM, UNLESS A HIGHER GRADE IS SHOWN ON THE DRAWINGS.
- MATERIALS FOR STUD WALLS AND COLUMNS SHALL BE SOUTHERN PINE NO. 2, GRADE TIMBER OR EQUIVALENT DOUGLAS FIR-LARCH UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- MATERIALS MUST BE GRADE MARKED.

Fb	= 2,900 PSI
E	= 2,000,000 PSI
Fc	= 2,900 PSI
Fv	= 290 PSI
- PLYWOOD ROOF DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PROVIDE PLYWOOD SHEATHING CLIPS AT ALL FREE EDGES. PLYWOOD SPAN RATING SHALL BE 32/16. NAIL PLYWOOD TO FRAMING WITH 8d HOT-DIP GALVANIZED NAILS AS FOLLOWS:

ROOF ZONE:	FIRST 5' OF GABLED END	- FIRST 4' FROM EDGE & RIDGE	- OTHERS
PANEL EDGES	4" O.C.	6" O.C.	6" O.C.
PANEL FIELD	6" O.C.	6" O.C.	12" O.C.

NAIL TO ALL SUPPORTS AT 4" O.C. FOR A 10'-0" SQUARE AREA AT CORNERS.
(USE 8d RING SHANK HOT-DIP GALVANIZED NAILS WHEN MEAN ROOF HEIGHT EXCEEDS 25 FEET)
- PLYWOOD WALL SHEATHING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. NAIL PLYWOOD AT 4" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d MINIMUM HOT-DIP GALVANIZED NAILS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. EXTERIOR GYPSUM WALL SHEATHING (SEE ARCHITECTURAL DRAWINGS) SHALL BE NAILED AT 4" O.C. ALONG PANEL EDGES AND INTERMEDIATE SUPPORTS WITH NO. 11, 1 3/4" LONG, 7/16" HEAD HOT-DIP GALVANIZED NAILS MINIMUM.
- BEAMS MADE UP OF MULTIPLE 2x PIECES SHALL NOT BE SPLICED EXCEPT OVER SUPPORTS. ALL MULTI PLY MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY GUEING AND NAILING WITH 10d NAILS AT 6" O.C. TOP AND BOTTOM FOR EACH PLY. FLITCH BEAMS WITH STEEL PLATES SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER HOT-DIP GALVANIZED A307 THRU BOLTS AT 1'-0" O.C. STAGGERED FROM TOP TO BOTTOM.
- PROVIDE TRIPLE STUDS AT ALL CORNERS AND AT ALL BEAM BEARINGS MINIMUM THROUGH TO FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE STUDS AT BEAM BEARINGS TO MATCH BEAM WIDTH WHERE BEAM WIDTH EXCEEDS 4 1/2 INCHES.
- ANCHOR WOOD SILLS (PRESSURE TREATED) TO CONCRETE WITH 1/2" DIA. x 8" LONG HOT-DIP GALVANIZED HOOKED ANCHOR BOLTS WITH 9/16" TYPE "B" WIDE HOT-DIP GALVANIZED WASHERS EMBEDDED 7" MINIMUM AT 48 INCHES MAX. O.C. AT CORNERS AND DOOR OPENINGS PROVIDE ONE ANCHOR BOLT AT 8 INCHES IN EACH DIRECTION FROM CORNER. PROVIDE TWO BOLTS MINIMUM PER PIECE OF SILL PLATE.
- PREFABRICATED TIMBER TRUSSES SHALL BE FABRICATED BY A CERTIFIED TIMBER TRUSS MANUFACTURER.
- TRUSSES SHALL BE FABRICATED WITH WOOD CHORDS AND WEBS IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BRACING FOR TIMBER TRUSSES. BRACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOR BRACING WOOD TRUSSES, PUBLICATION 11B, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.
- TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS FOR APPROVAL SHOWING ALL MEMBER FORCES, SIZES AND CONNECTORS. DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. CHANGES IN THE TRUSS LAYOUT SHOWN ON THE CONTRACT DRAWINGS BY THE TRUSS MANUFACTURER WILL REQUIRE CHANGES IN THE LOCATIONS AND QUANTITIES OF ROOF TRUSS AND ROOF ORDER TRUSS UPLIFT ANCHORS AND HOLDDOWNS AND SHEARWALL SIZES, LOCATIONS AND HOLDDOWNS. GENERAL CONTRACTOR SHALL COORDINATE ANY CHANGES IN THE TRUSS LAYOUT WITH THE ENGINEER OF RECORD. ADDITIONAL DESIGN SERVICES DUE TO THESE CHANGES WILL BE CHARGED TO THE GENERAL CONTRACTOR.
- TYPICAL TRUSS LOADING IS SHOWN ON THE DRAWINGS. THE MANUFACTURER SHALL EXAMINE THE DRAWINGS FOR SPECIAL CONDITIONS AND/OR LOADS NOT SHOWN AND PROVIDE FOR SUCH IN THE DESIGN.
- AT BUILDING ENDS, SPECIAL GABLE-END TRUSSES SHALL BE USED. TRUSSES SHALL BE DESIGNED AND FABRICATED WITH VERTICAL STUDS NO MORE THAN 16 INCHES ON CENTER. NARROW FACE OF STUD SHALL BE PARALLEL TO FACE OF EXTERIOR WALL OR NARROW FACE OF STUD MAY BE PERPENDICULAR TO EXTERIOR FACE OF BUILDING. STUDS SHALL BRACED AS REQUIRED FOR THE DESIGN WIND LOAD. AT GABLE END WALLS, STUDS SHALL BE BALLOON FRAMED TO THE BOTTOM OF THE TRUSS.
- PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE-ENGINEERED CONNECTORS SHALL BE SIMPSON STRONG-TIE OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS. SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER. ALL CONNECTORS SHALL BE POST HOT-DIP GALVANIZED COATED AFTER FABRICATION OR STAINLESS STEEL.
- INSTALL A SIMPSON "h10" OR TWO (2) -"h2.5a" METAL TIES AT THE CONNECTION BETWEEN ALL RAFTERS OR TRUSS ENDS WHERE THEY BEAR ON A WOOD SUPPORT FOR 10'-0" IN ANY DIRECTION FROM BUILDING CORNERS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE. INSTALL A SIMPSON "h2.5a" AT ALL OTHER TRUSS ENDS.
- INSTALL A SIMPSON "h2.5a" METAL TIE AT THE TOP AND A SIMPSON "h3" METAL TIE AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE TOP PLATE AND SILL PLATE. WHERE AN "h2.5a" METAL TIE IS REQUIRED AT TRUSS ENDS. INSTALL TWO (2) "h3" METAL TIES AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE SILL PLATE, WHERE "h10" TIES ARE REQUIRED AT TRUSS ENDS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE OR BOTTOM SILL PLATE.
- ALL TIMBER OUTSIDE THE BUILDING ENVELOPE SHALL BE PRESSURE TREATED. ALL CONNECTIONS OUTSIDE THE BUILDING ENVELOPE SHALL BE MADE WITH HOT-DIP GALVANIZED BOLTS OR NAILS.

BRICK MASONRY NOTES:

- MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO OF 1 PART PORTLAND CEMENT, 1/4 PART MINIMUM TO 1/2 PART MAXIMUM LIME PUTTY OR HYDRATED LIME, DAMP LOOSE SAND NOT LESS THAN 2-1/4 AND NOT MORE 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED, AND SHALL CONFORM TO ASTM C270, TYPE "S" WITH 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI MINIMUM.
- OPENINGS IN MASONRY WALLS SHALL HAVE STEEL LINTELS AS DETAILED ON THE DRAWINGS. LINTELS SHALL BEAR 8" MINIMUM AT EACH END. VERTICAL CONTROL JOINTS SHALL EXTEND UP FROM THE END OF THE LINTEL, UNLESS 15# FELT OR FLASHING IS PROVIDED TOP AND BOTTOM OF LINTEL ANGLE WHERE THE ANGLE BEARS ON BRICK.
- ALL MASONRY TIES TO BACKUP STRUCTURE SHALL BE HOT DIP GALVANIZED PROVIDE HECKMANN NO. 315 ANCHOR WITH 16" ON CENTER HORIZONTAL AND 16" ON CENTER VERTICAL. (15" AT KING SIZE BRICK) VERTICALLY AND A HECKMANN NO. 357 ANCHOR ON ALL BEAMS AT 16" ON CENTER HORIZONTALLY UNLESS NOTED OTHERWISE ON THE DRAWINGS. MASONRY TIES TO WALL STUDS SHALL BE HECKMANN NO. 316 TRIANGULAR TIE WITH HECKMANN NO. 315-C SCREW ON ANCHOR STRAP SPACED 16" ON CENTER HORIZONTALLY AND 16" ON CENTER VERTICALLY (15" AT KING SIZE BRICK). AT WALL CORNERS, INTERSECTIONS AND OPENINGS, PROVIDE TWO VERTICAL ROWS OF ANCHORS SPACED 16" APART AND 16" ON CENTER VERTICALLY. TRIANGULAR TIES SHALL EXTEND 3/4" FROM FACE OF MASONRY. ANCHOR STRAPS SHALL BE ATTACHED TO METAL STUDS WITH TWO (2) #10-16x1 1/2" CADMIUM PLATED SHEET METAL SCREWS.
- MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT APPROXIMATELY SIXTEEN (16) FEET ON CENTER AND FOUR (4) FEET MAXIMUM FROM CORNERS. COORDINATE THE LOCATION OF JOINTS WITH THE ARCHITECT. PROVIDE HECKMANN NO. 351 CONTROL JOINT ANCHORS AT 16" ON CENTER VERTICALLY.
- ALL MASONRY VENEER DESIGN IS BASED ON SECTION 1405.5 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION AND SECTION 6.1 AND 6.2 OF ACI 530, LATEST EDITION.

STRUCTURAL TESTING AND INSPECTIONS:

EARTHWORK TESTING

- DURING EARTHWORK OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
 - OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
 - OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING. DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
 - VERIFY THAT THE SUBGRADE IS SCARIFIED AND MOISTURE CONDITIONED TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN [95 AND 100] PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN [OPTIMUM AND +3] PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
 - STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AN INORGANIC SANDY CLAY WITH LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 10 AND 20.
 - SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -2 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. VERIFY THAT SELECT FILL MATERIAL EXTENDS A MINIMUM OF 5'-0" BEYOND THE BUILDING PERIMETER.
 - SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.
 - PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE THE WATER VAPOR RETARDER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10).
 - OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE AND WATER AT ALL TIMES.
 - OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

DRILLED FOOTINGS TESTING

- DURING DRILLED FOOTING OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
 - OBSERVING THE BOTTOM OF SHAFT FOR CLEANLINESS.
 - CHECKING SHAFT FOR CONFORMANCE TO REQUIRED TOLERANCES. FOOTINGS SHALL BE WITHIN 3" OF THEIR REQUIRED LOCATIONS AND SHAFTS SHALL NOT BE OUT OF PLUMB BY MORE THAN 2 PERCENT OF THE SHAFT LENGTH.
 - CHECKING SHAFT BOTTOM FOR PROPER BEARING MATERIAL.
 - NOTING DEPTH AND DIAMETER OF ALL FOOTINGS.
 - VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT.
 - CHECK FOR CAVING OF THE SHAFT OR BELL.
 - CHECKING THAT THE BELL IS CONCENTRIC WITH THE SHAFT.
- ENSURE THAT THE SPOILS FROM THE DRILLED FOOTING EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD AND THAT THE PAD IS MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED.

CONCRETE TESTING

- CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW INDICATING CONFORMANCE WITH ACI 318-95, CHAPTER 5, SECTION 5.3.
- SUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN AT THE POINT OF DISCHARGE AT THE SAME RATE AS NOTED BELOW IN NOTE NUMBER 5.
- AIR CONTENT TESTS CONFORMING TO ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; SHALL BE TAKEN FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
- CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
- ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
- VERIFY THAT POST INSTALLED ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

SPECIAL INSPECTIONS:

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEERS SCOPE OF SERVICES. THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY OR THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS PERFORMED THE SPECIAL INSPECTIONS.

CHAPTER 17 OF THE 2003 INTERNATIONAL BUILDING CODE IS INTERPRETED TO REQUIRE SPECIAL INSPECTION FOR THE FOLLOWING ITEMS:

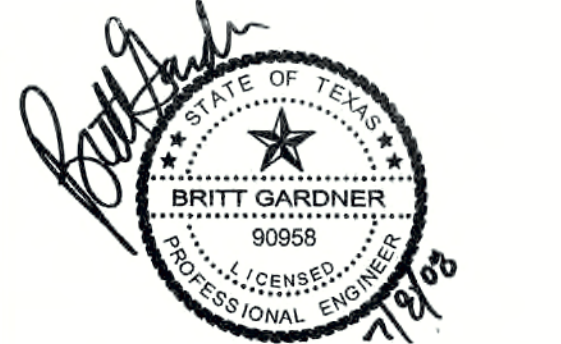
SOILS (SECTION 1704.7):	
SITE PREPARATION	SECTION 1704.7.1
FILL PLACEMENT	SECTION 1704.7.2
EVALUATION OF IN-PLACE DENSITY	SECTION 1704.7.3

CONCRETE CONSTRUCTION (SECTION 1704.4/TABLE 1704.4):

MATERIALS	SECTION 1704.4.1
REINFORCING INSTALLATION PLACEMENT	TABLE 1704.4.1
BOLTS EMBEDDED IN CONCRETE	TABLE 1704.4.3

WOOD CONSTRUCTION (SECTION 1704.6)

INSPECTION OF FABRICATORS	SECTION 1704.2
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PROJECT NAME AND ADDRESS

**ABERCROMBIE
ACADEMY**

17102 THEISS MAIL RD.

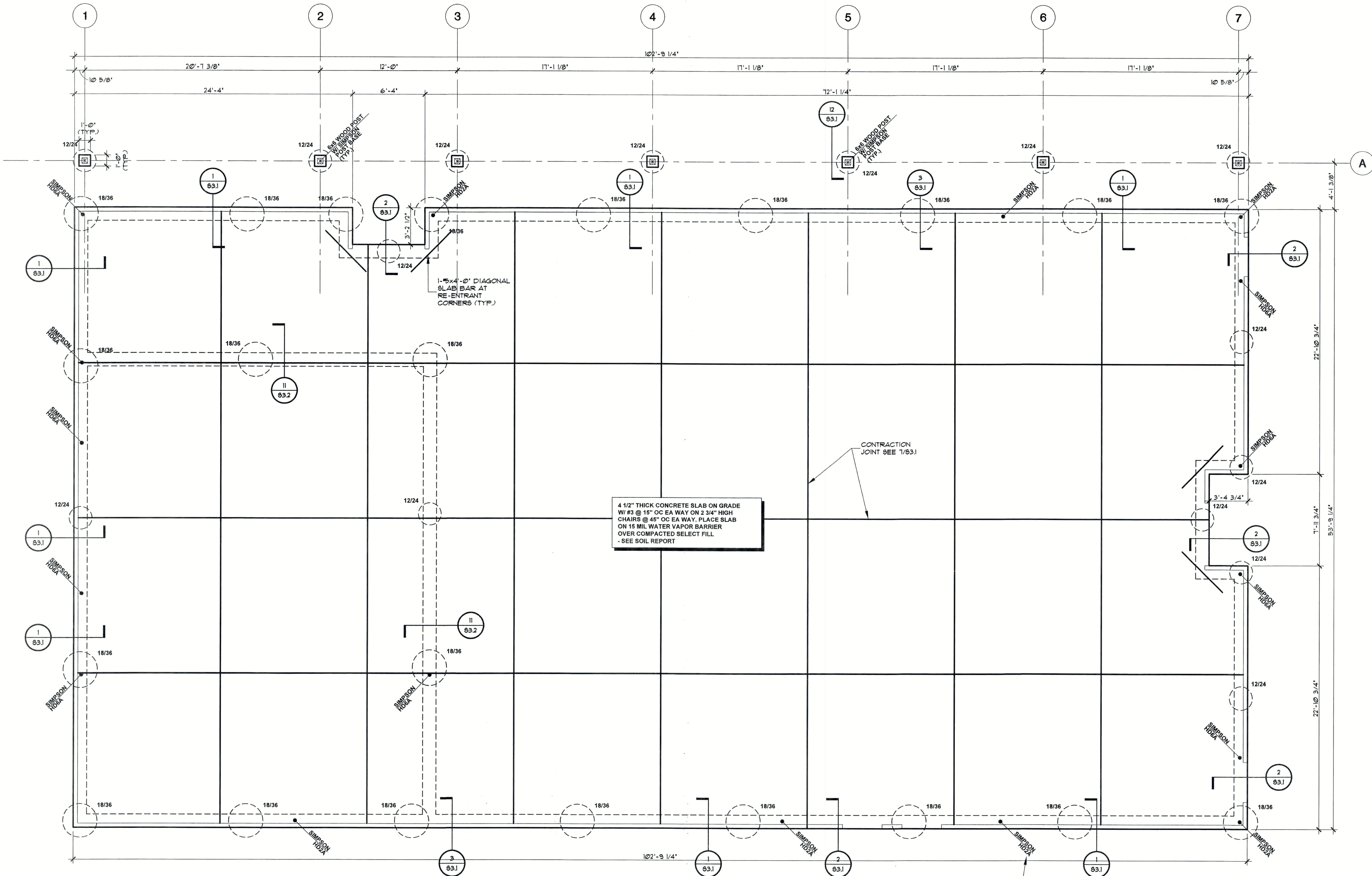
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
18016-00	07.08.08

TITLE
GENERAL NOTES

DRAWING NUMBER

SO.0



FOUNDATION PLAN
SCALE: 1/4"=1'-0"

BRITT GARDNER
90958
PROFESSIONAL ENGINEER
7/19/08

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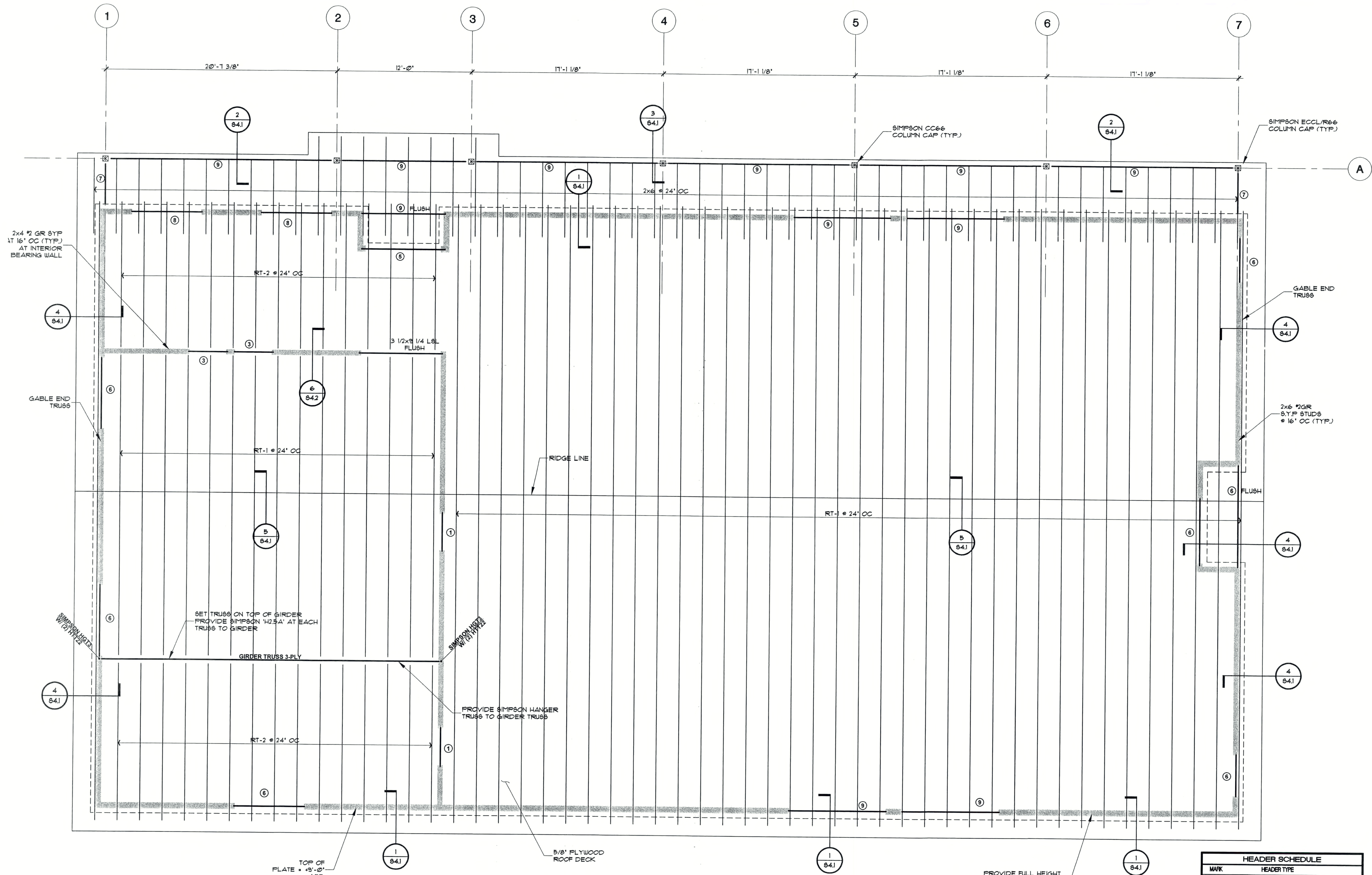
17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER	DATE
18016-00	07.08.08

TITLE
FOUNDATION PLAN

DRAWING NUMBER

S1.1
208138



ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0"

HEADER SCHEDULE	
MARK	HEADER TYPE
①	(2) - 2x6
②	(2) - 2x8
③	(2) - 2x10
④	(2) - 2x12
⑤	(3) - 2x6
⑥	(3) - 2x8
⑦	(3) - 2x10
⑧	(3) - 2x12
⑨	5 1/4"x9 1/4" LSL BEAM

NOTE: ALL HEADERS ARE TYPE ① UNLESS NOTED
 USE 1/2" PLYWOOD SPACERS AS REQ'D



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PROJECT NAME AND ADDRESS
ABERCROMBIE ACADEMY

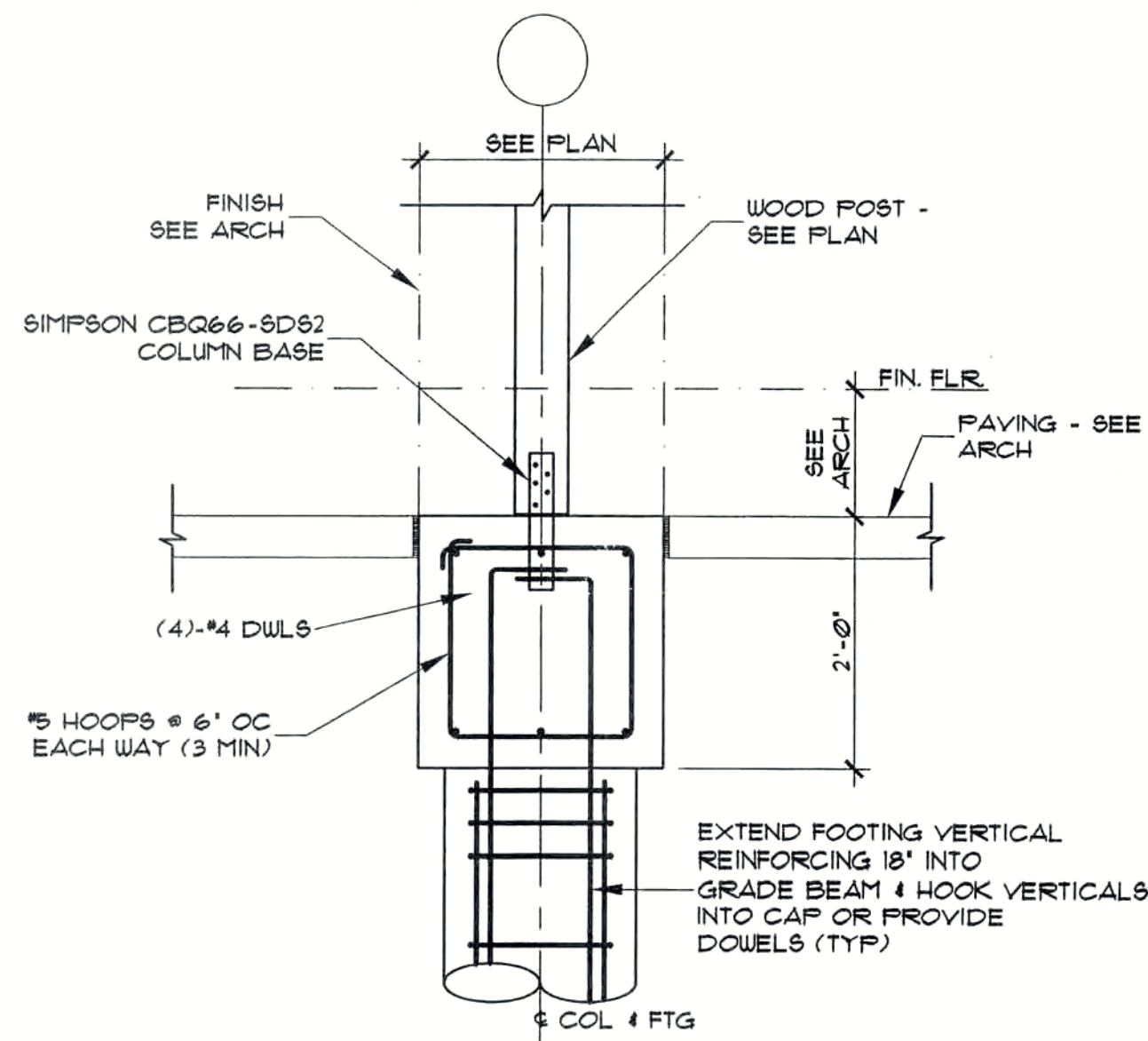
17102 THEISS MAIL RD.
 SPRING, TEXAS 77379

REFERENCE NUMBER DATE
 18016-00 07.08.08

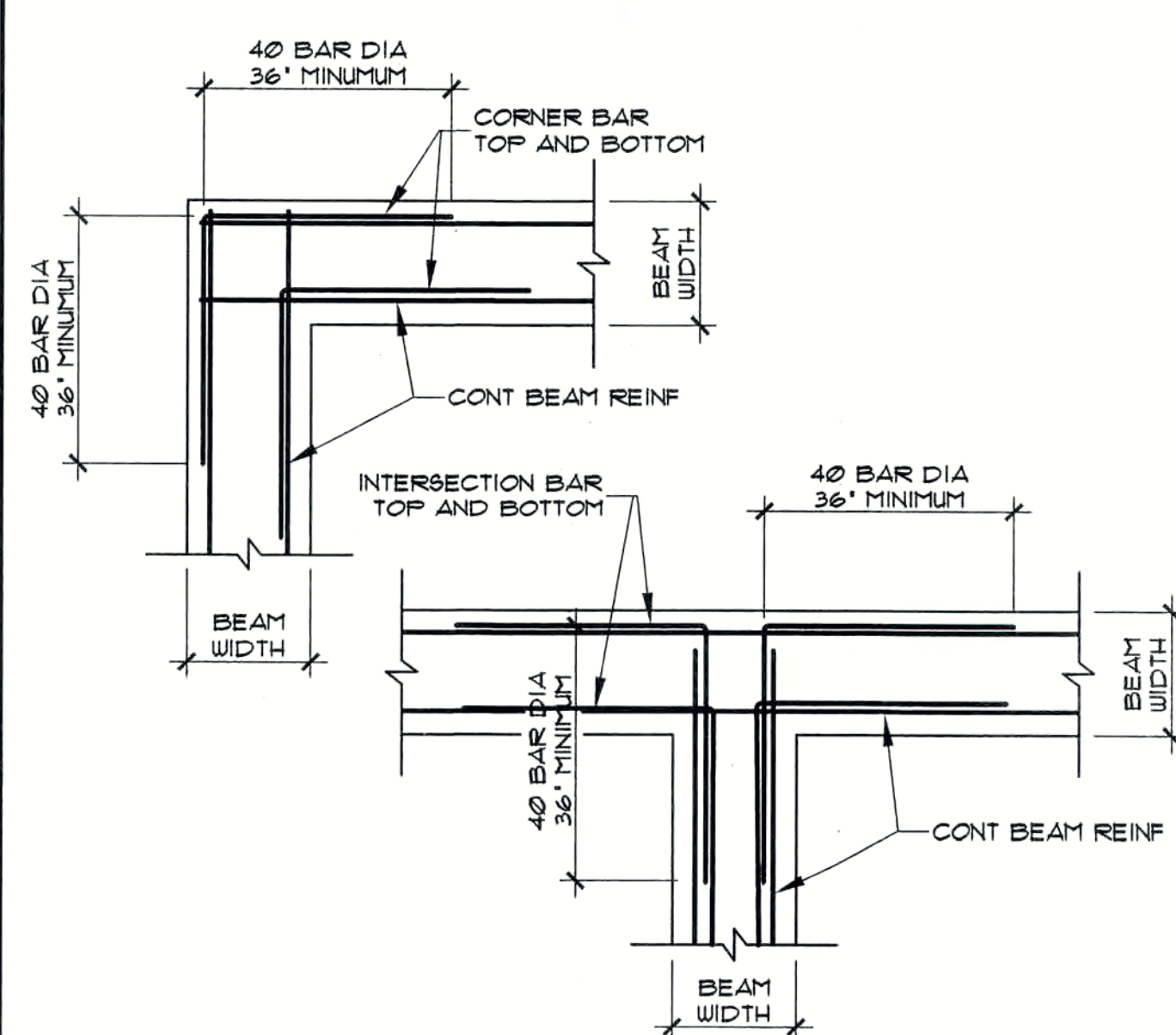
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ROOF FRAMING PLAN

DRAWING NUMBER

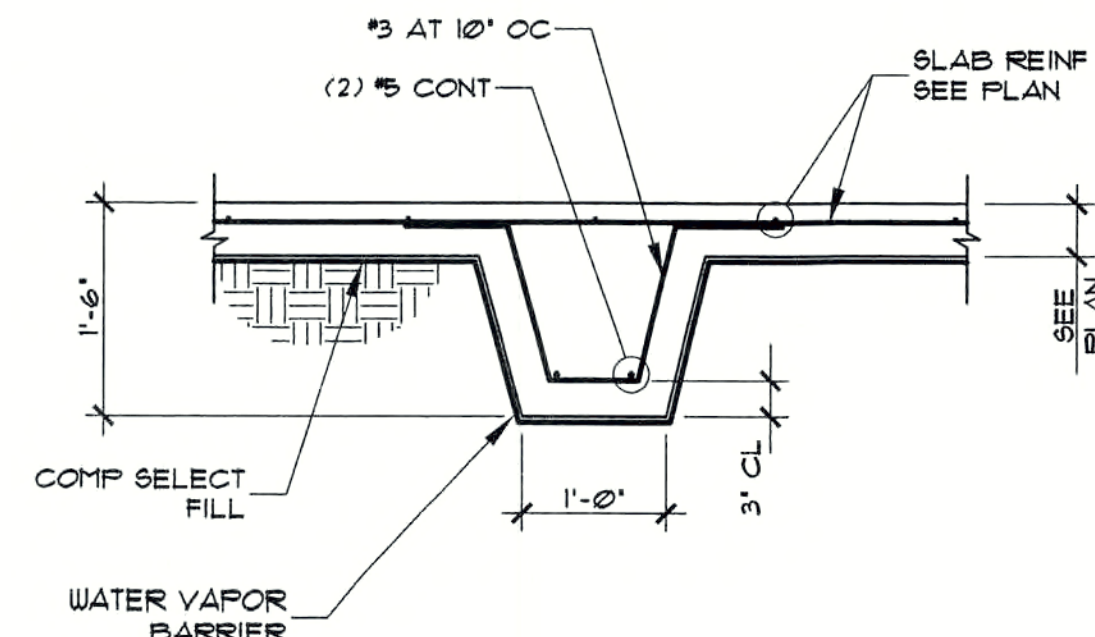
S2.1
 208138



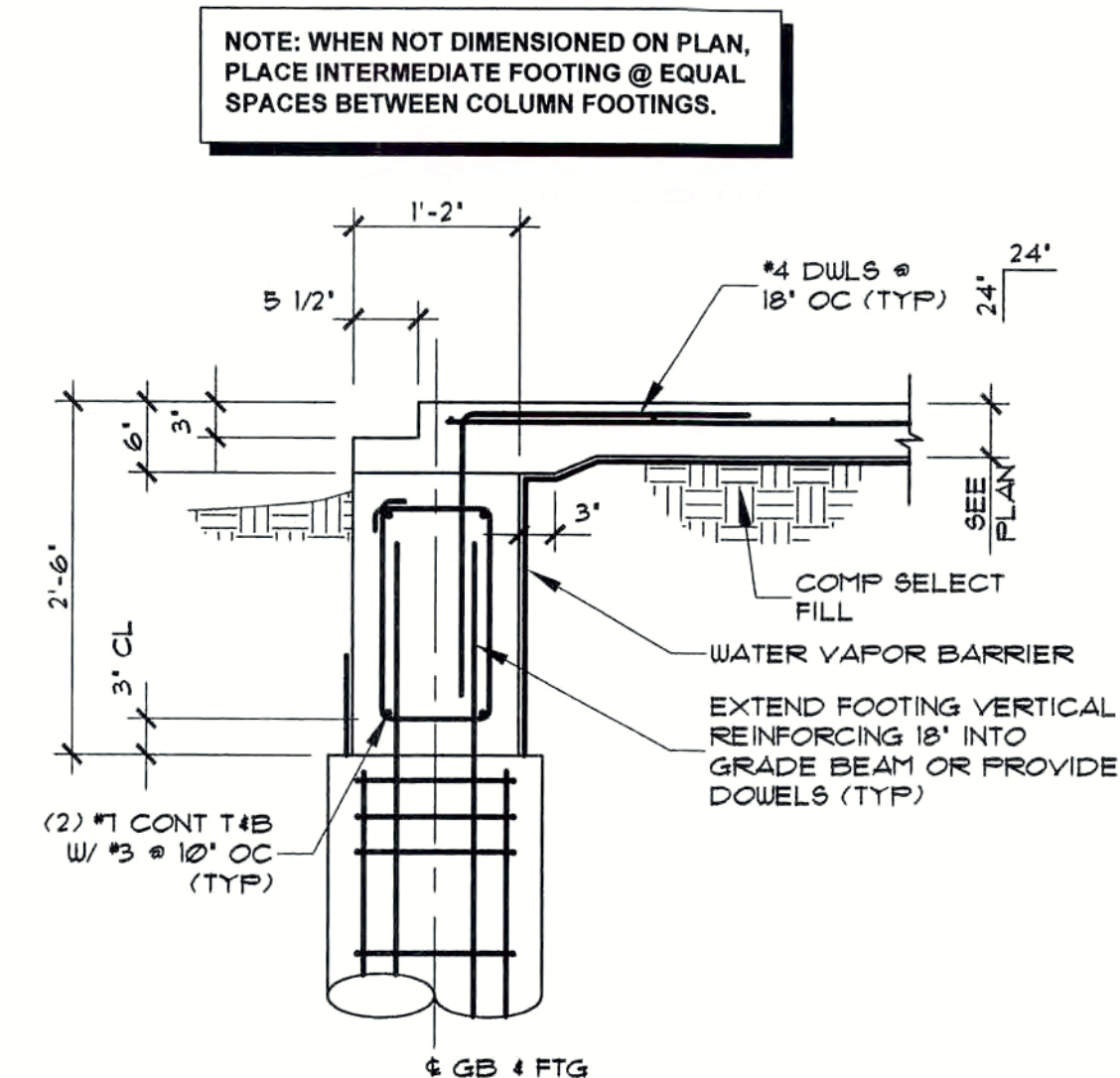
12 **DETAIL AT PORCH COLUMN**
SCALE: 3/4" = 1'-0"



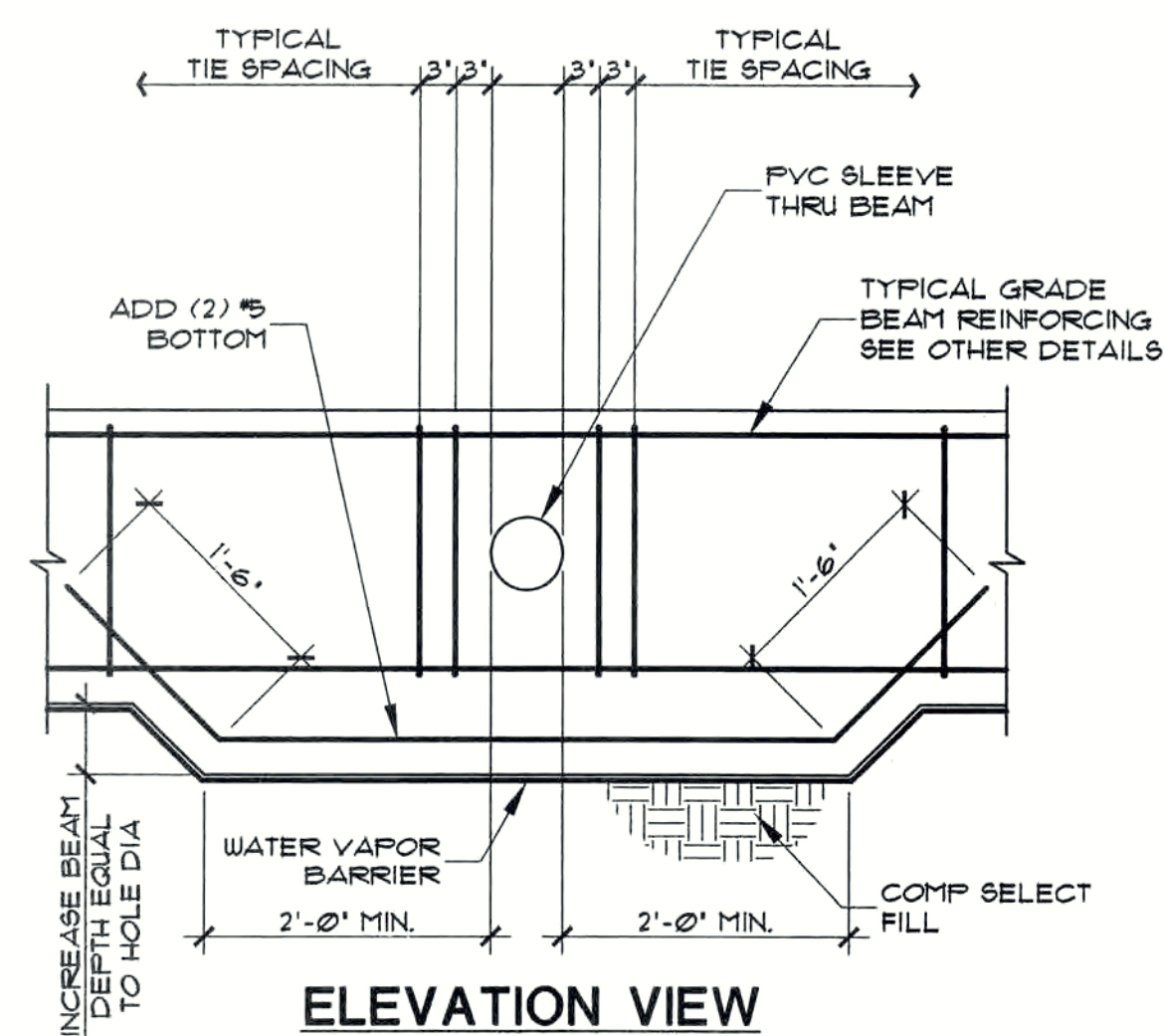
9 **TYPICAL CORNER BAR DETAIL**
SCALE: 3/4" = 1'-0"



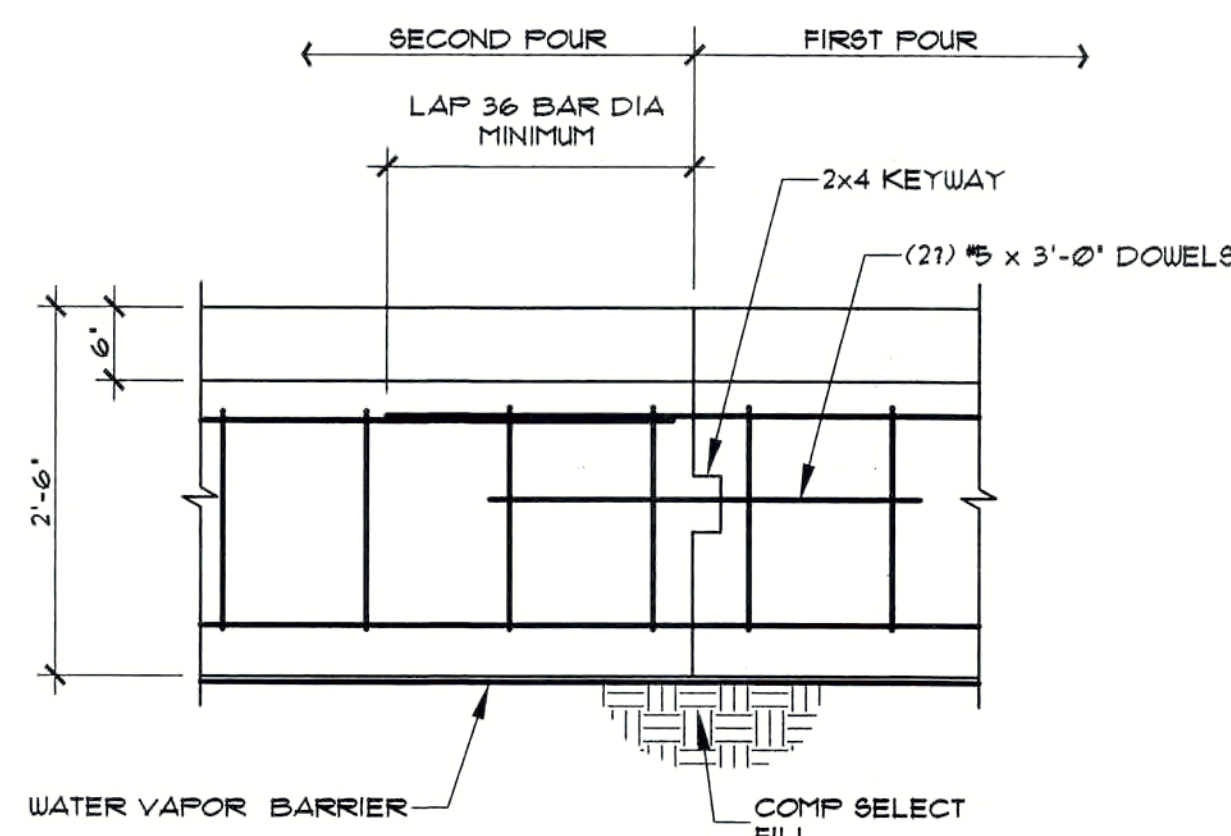
6 **SLAB STIFFENER RIB DETAIL**
SCALE: 3/4" = 1'-0"



3 **INTERMEDIATE FOOTING DETAIL**
SCALE: 3/4" = 1'-0"



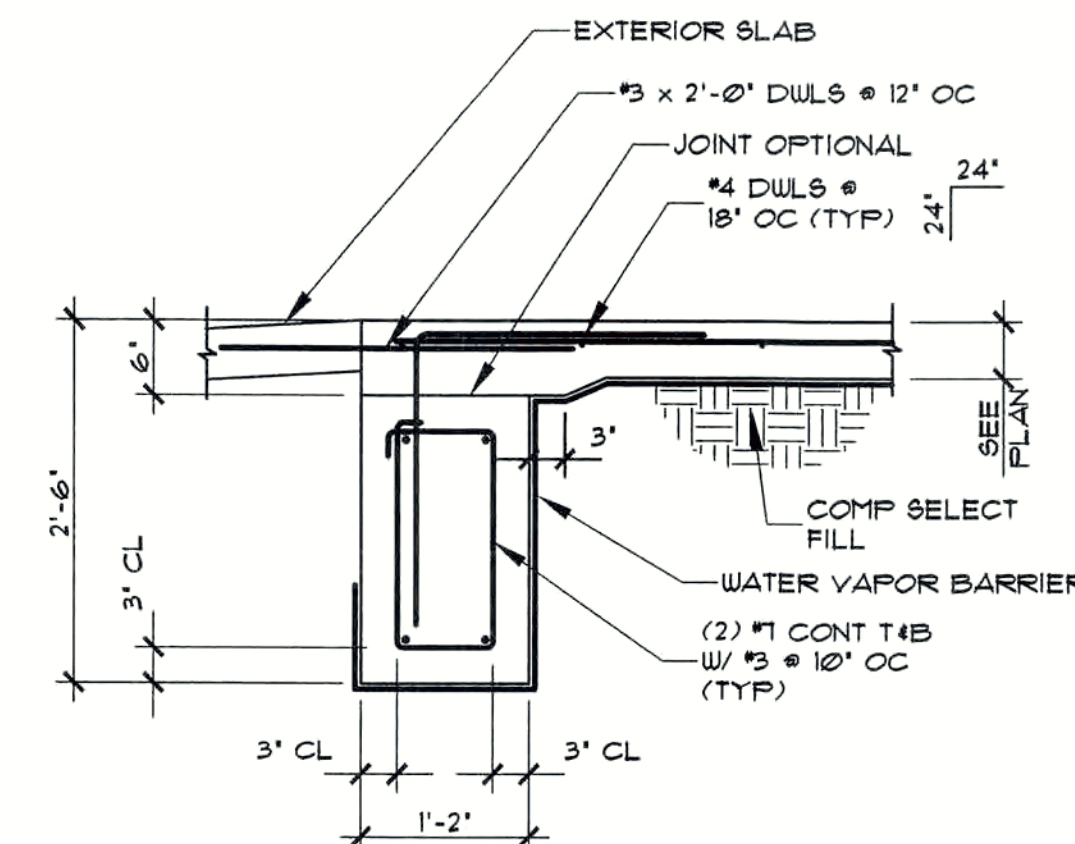
11 **GRADE BEAM PENETRATION DETAIL**
SCALE: 3/4" = 1'-0"



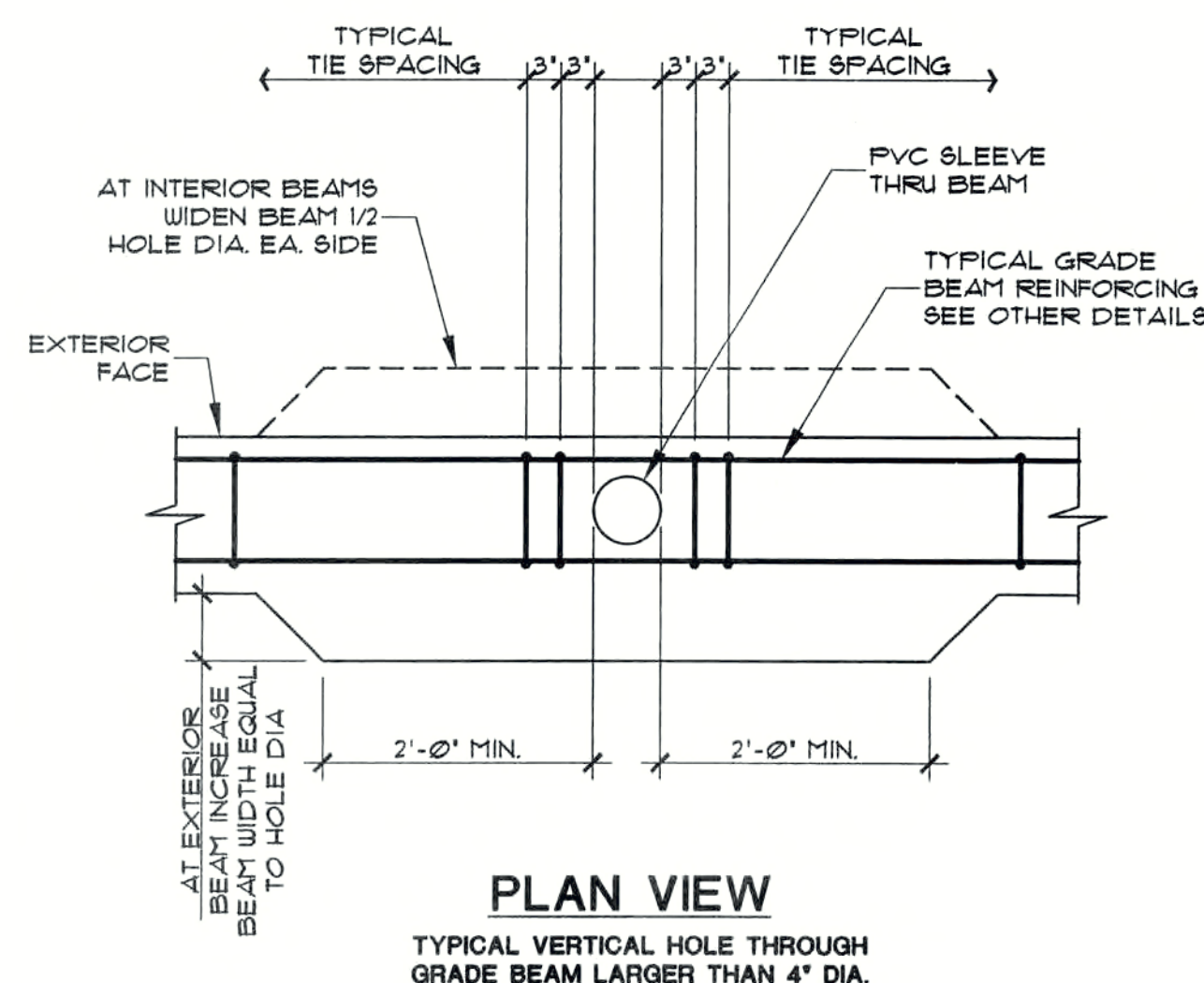
8 **GRADE BEAM CONSTRUCTION JOINT**
SCALE: 3/4" = 1'-0"

SHAFT DIA.	VERT. BARS	TIES
12"	4 - #5	#3 @ 10"
14"	4 - #5	#3 @ 10"
16"	4 - #5	#3 @ 10"
18"	4 - #6	#3 @ 12"
20"	4 - #6	#3 @ 12"
22"	6 - #6	#3 @ 14"
24"	6 - #6	#3 @ 14"
26"	6 - #7	#3 @ 16"
28"	6 - #7	#3 @ 16"
30"	6 - #8	#3 @ 18"
32"	6 - #8	#3 @ 18"
34"	8 - #8	#3 @ 18"
36"	8 - #8	#3 @ 18"
42"	8 - #9	#3 @ 18"
48"	8 - #10	#3 @ 18"

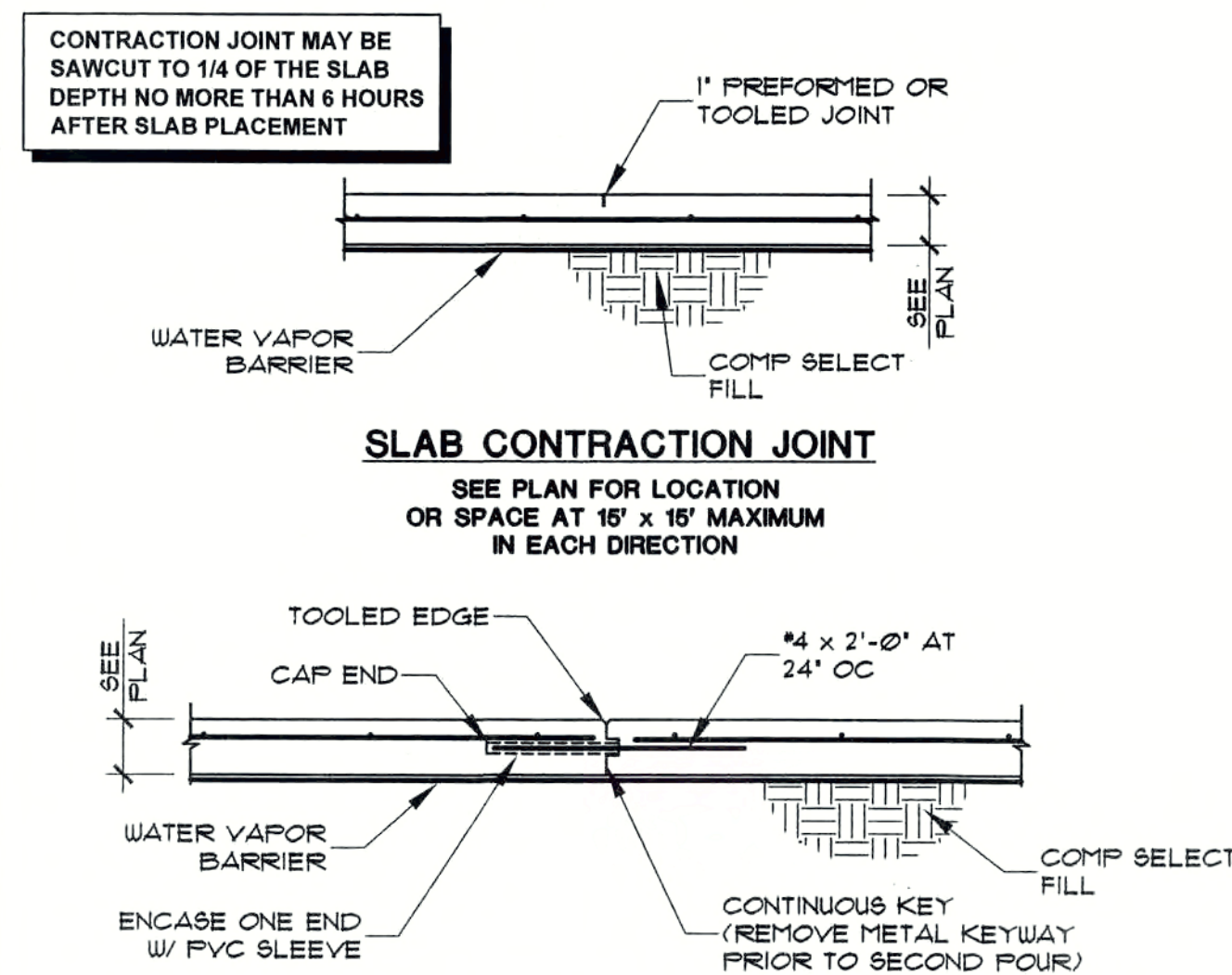
5 **FOOTING SCHEDULE**
SCALE: 1/8" = 1'-0"



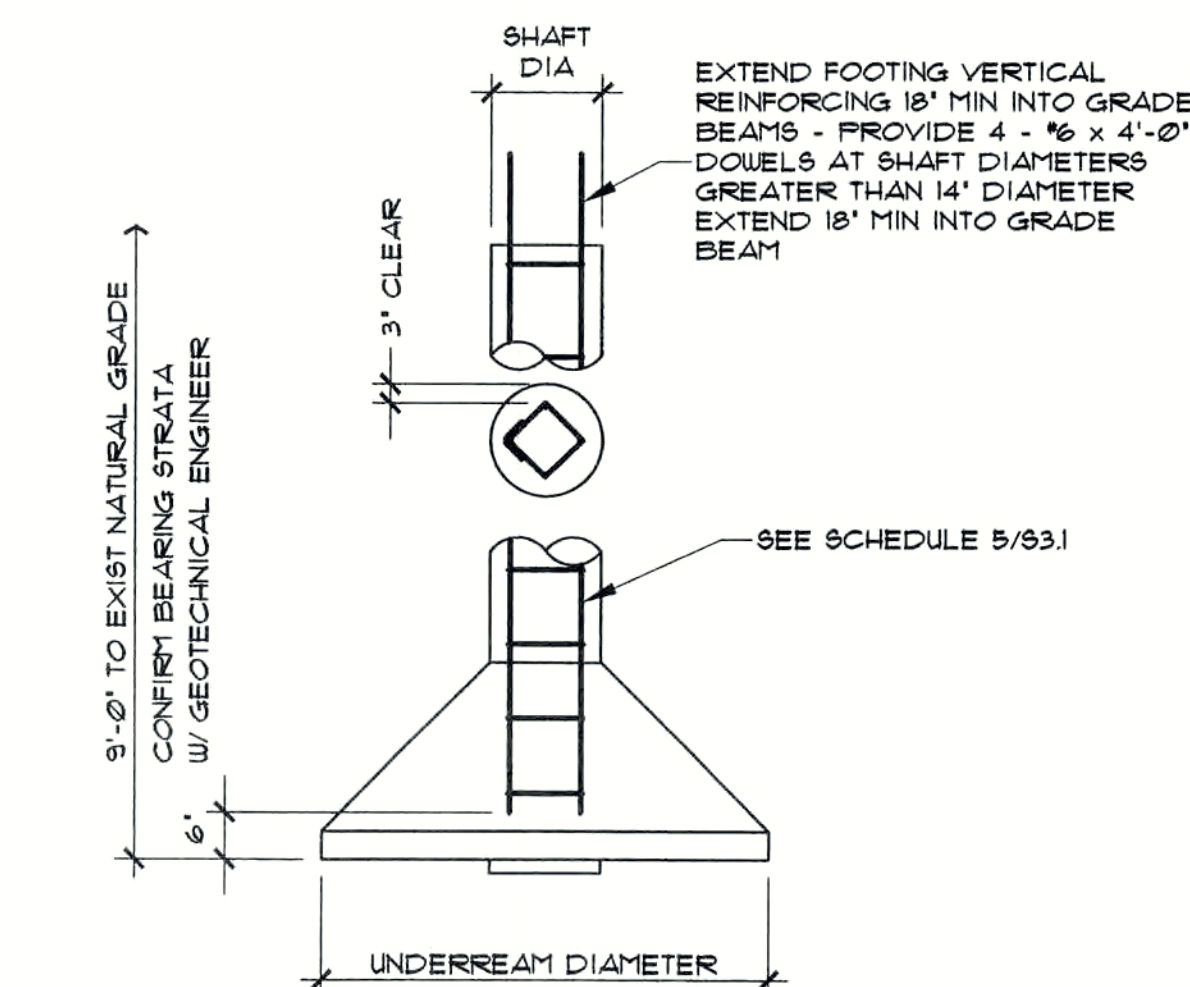
2 **GRADE BEAM AT EXTERIOR SLAB**
SCALE: 3/4" = 1'-0"



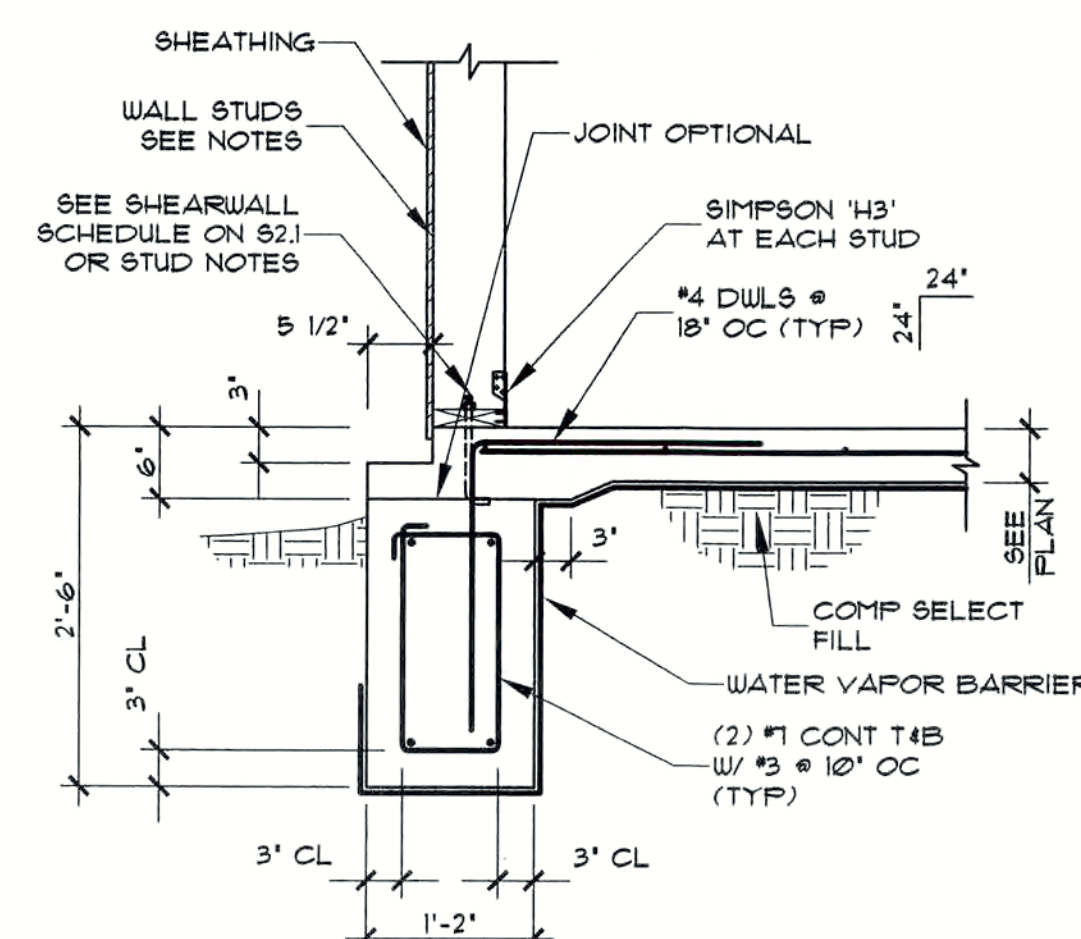
10 **GRADE BEAM PENETRATION DETAIL**
SCALE: 3/4" = 1'-0"



7 **SLAB JOINT DETAIL**
SCALE: 3/4" = 1'-0"



4 **DRILLED FOOTING DETAIL**
SCALE: 1/8" = 1'-0"



1 **EXTERIOR GRADE BEAM AT BRICK LEDGE**
SCALE: 3/4" = 1'-0"



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PROJECT NAME AND ADDRESS

ABERCROMBIE ACADEMY

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER
18016-00

DATE
07.08.08

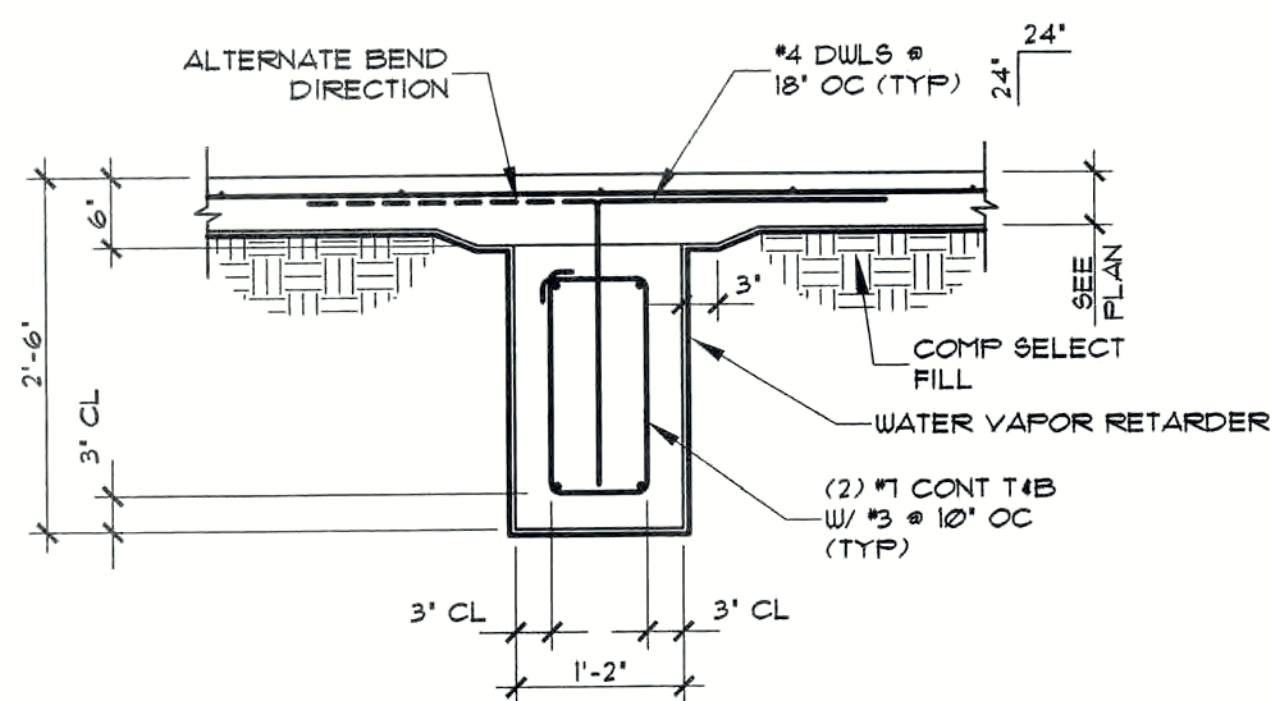
TITLE
FOUNDATION DETAILS

DRAWING NUMBER

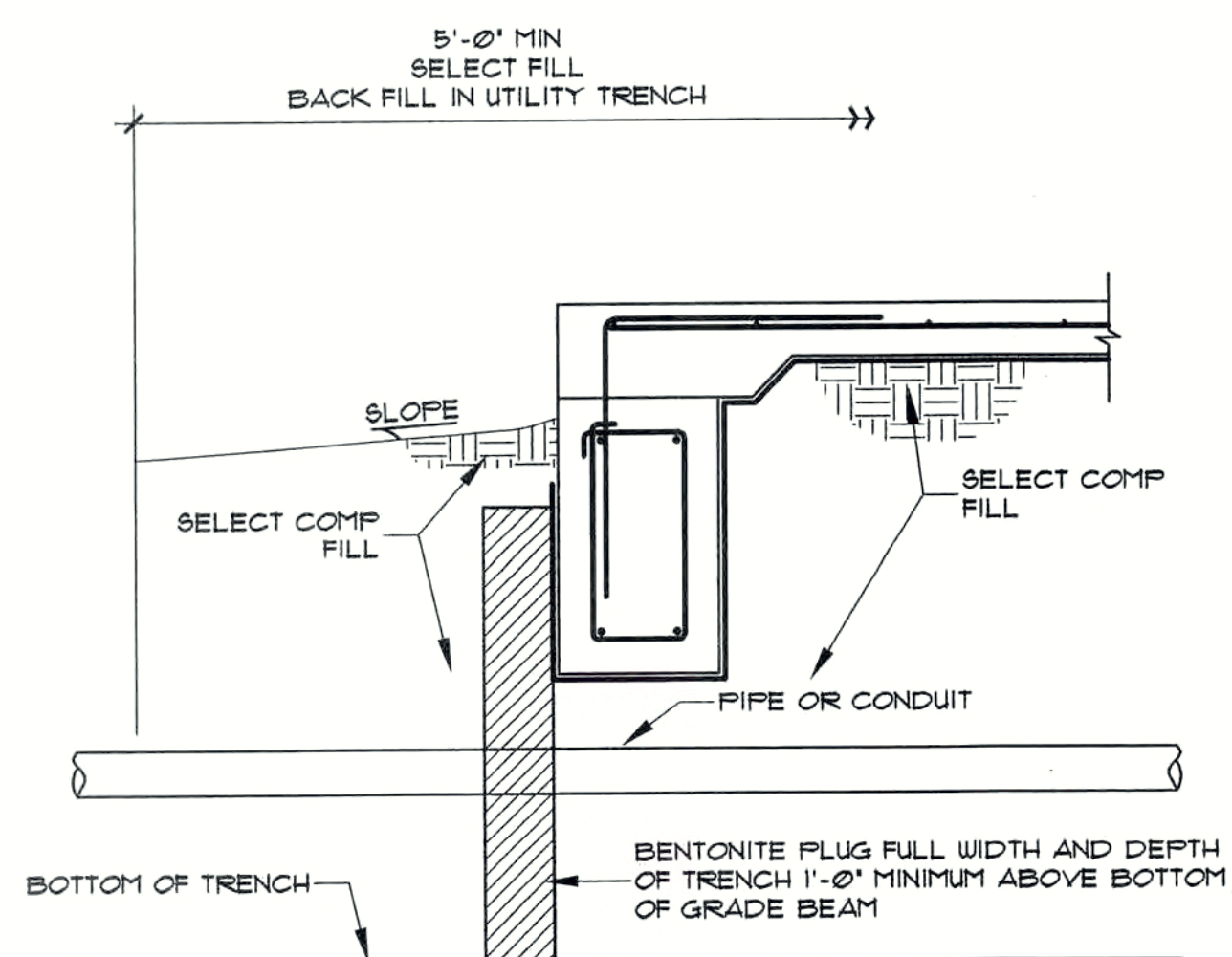
S3.1

208138

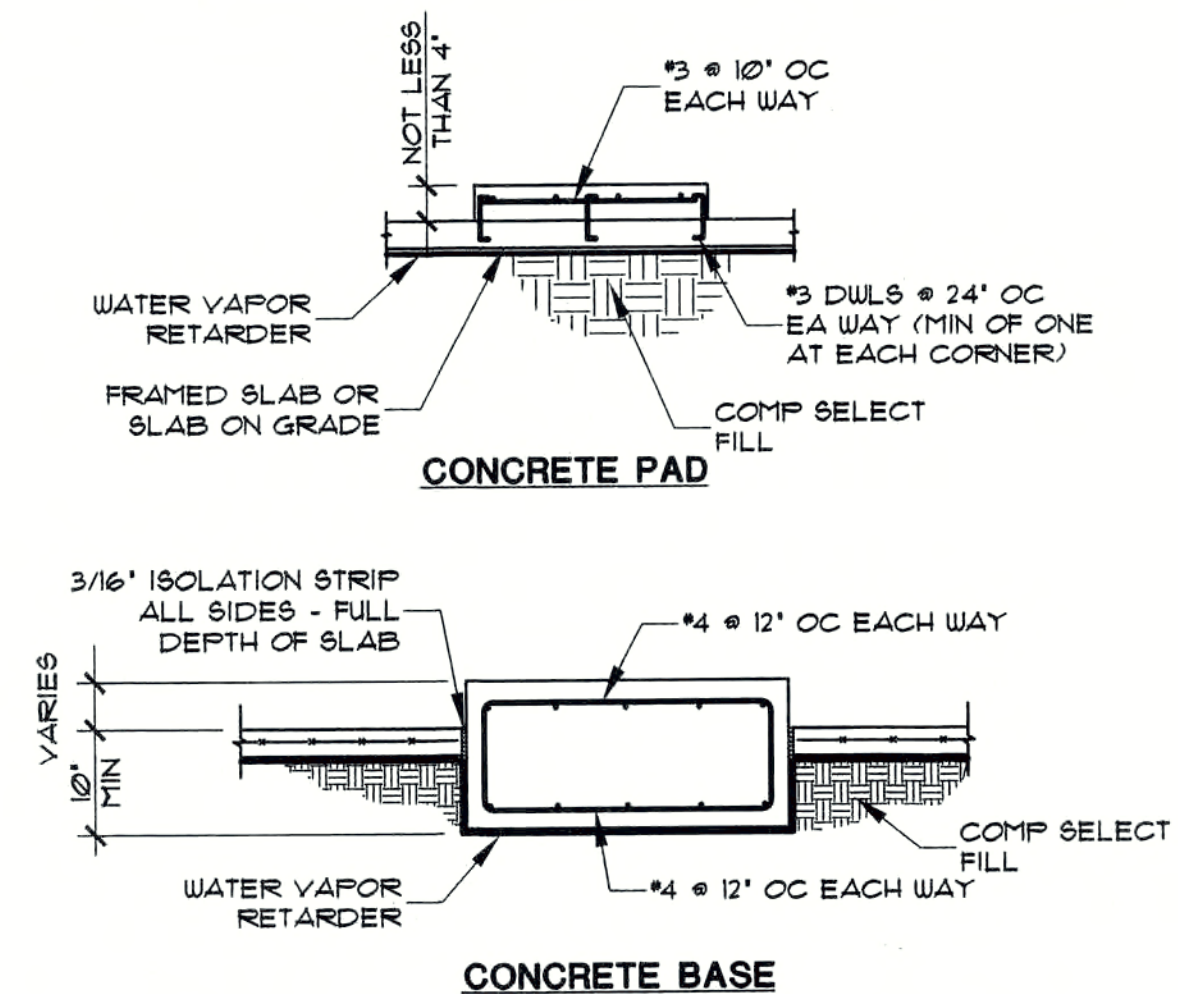
12 **DETAIL**
SCALE: 3/4" = 1'-0"



11 **TYPICAL**
INTERIOR GRADE BEAM
SCALE: 3/4" = 1'-0"

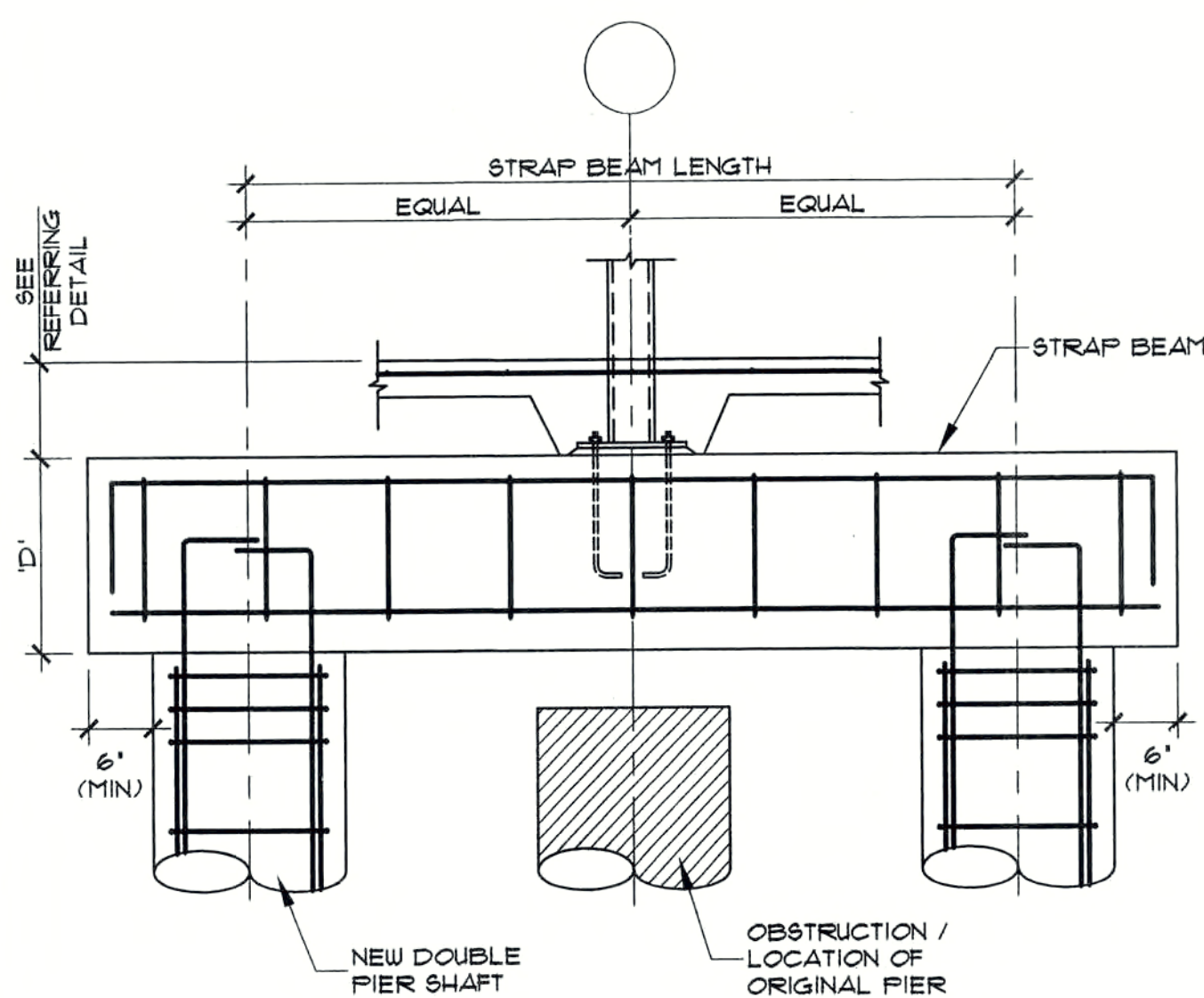


10 PIPE ENTRY DETAIL
SCALE: 3/4" = 1'-0"



NOTE: VERIFY ALL PAD AND BASE LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE MECHANICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA. PROVIDE ADDITIONAL LAYER OF REINFORCING FOR PAD THICKNESS GREATER THAN 18".

9 PAD AND BASE DETAIL
SCALE: NTS

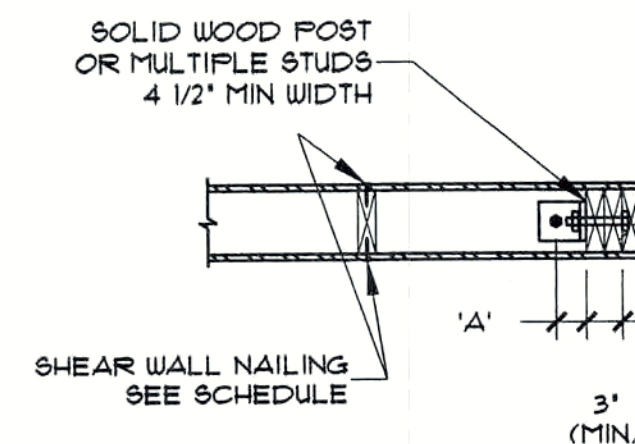


7 OBSTRUCTION DETAIL

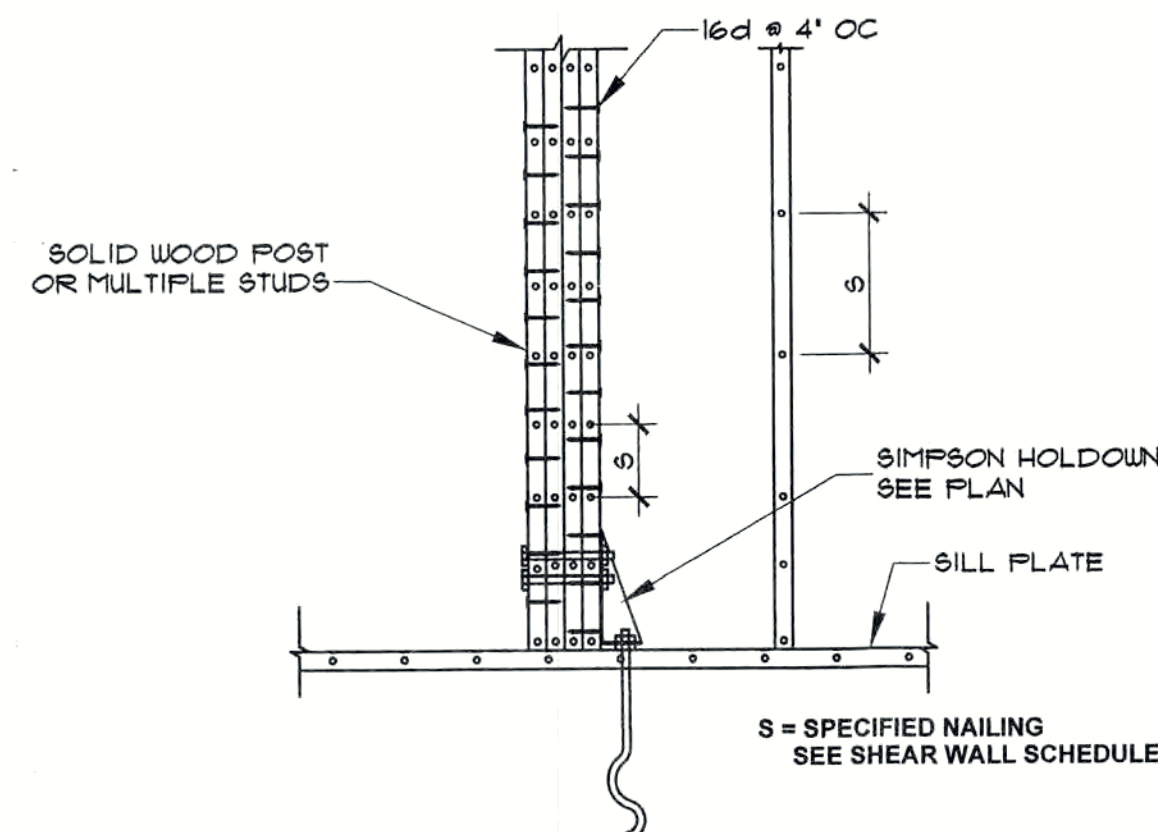
STRAP BEAM SCHEDULE					
ORIG SINGLE BELL DIAM	DBL PIER BELL SIZE	DBL PIER SHAFT SIZE	STRAP BEAM LENGTH (±)	STRAP BEAM (W X D)	STRAP BEAM REINFORCING
24", 36"	30"	16"	5'-0"	14"x24"	(2) #7 T & B #3 @ 10"
42", 48"	36"	18"	6'-0"	14"x24"	(3) #6 T (3) #6 B #3 @ 10"
54", 60"	48"	24"	8'-0"	16"x24"	(2) #6 T & (4) #7 B #3 @ 10"
66", 72"	54"	28"	9'-0"	20"x24"	(3) #7 T & (5) #8 B #3 @ 9"
72", 80"	60"	30"	10'-0"	24"x24"	(3) #7 T & (6) #9 B #4 @ 9"

6 OPENING HOLDOWN PLAN
SCALE: 3/4" = 1'-0"

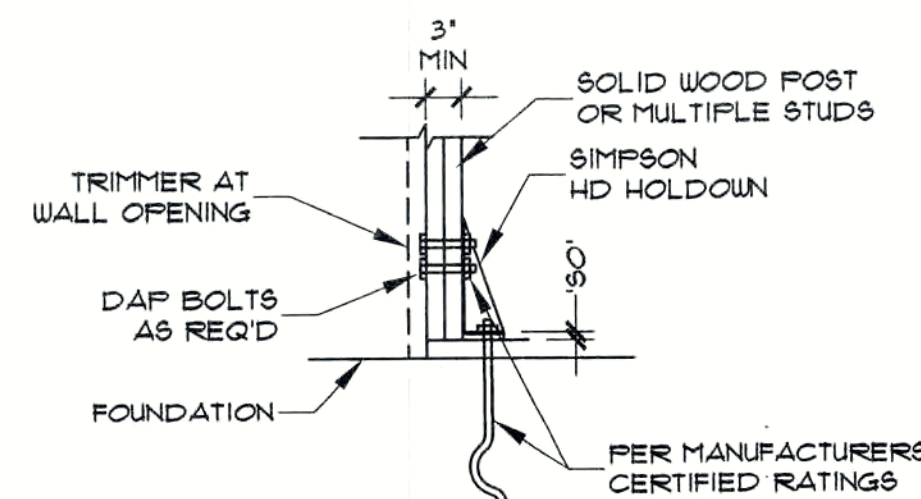
HOLDOWN	DISTANCE 'A'
HD2A	1 7/16"
HD5A	2 3/16"
HD6A	2 1/16"
HD8A	2 1/16"
HD10A	2 1/16"
HD14A	2 3/16"
HD20A	2 3/8"
HD15	2 1/8"



5 HOLDOWN STUD NAILING

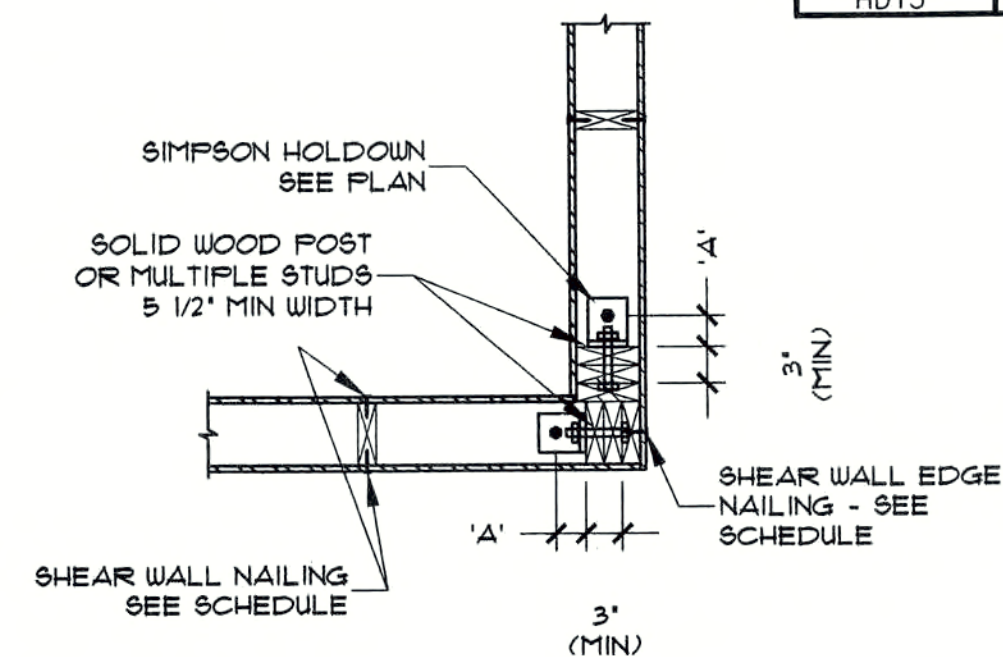


4 HOLDOWN DETAIL



3 CORNER HOLDDOWN PLAN
SCALE: 3/4" = 1'-0"

HOLDOWN	DISTANCE 'A'
HD2A	1 7/16"
HD5A	2 3/16"
HD6A	2 1/16"
HD8A	2 1/16"
HD10A	2 1/16"
HD14A	2 3/16"
HD20A	2 3/8"
HD15	2 1/8"



1 **HOLDOWN
ANCHOR SCHEDULE**
SCALE: 3/4" = 1'-0"

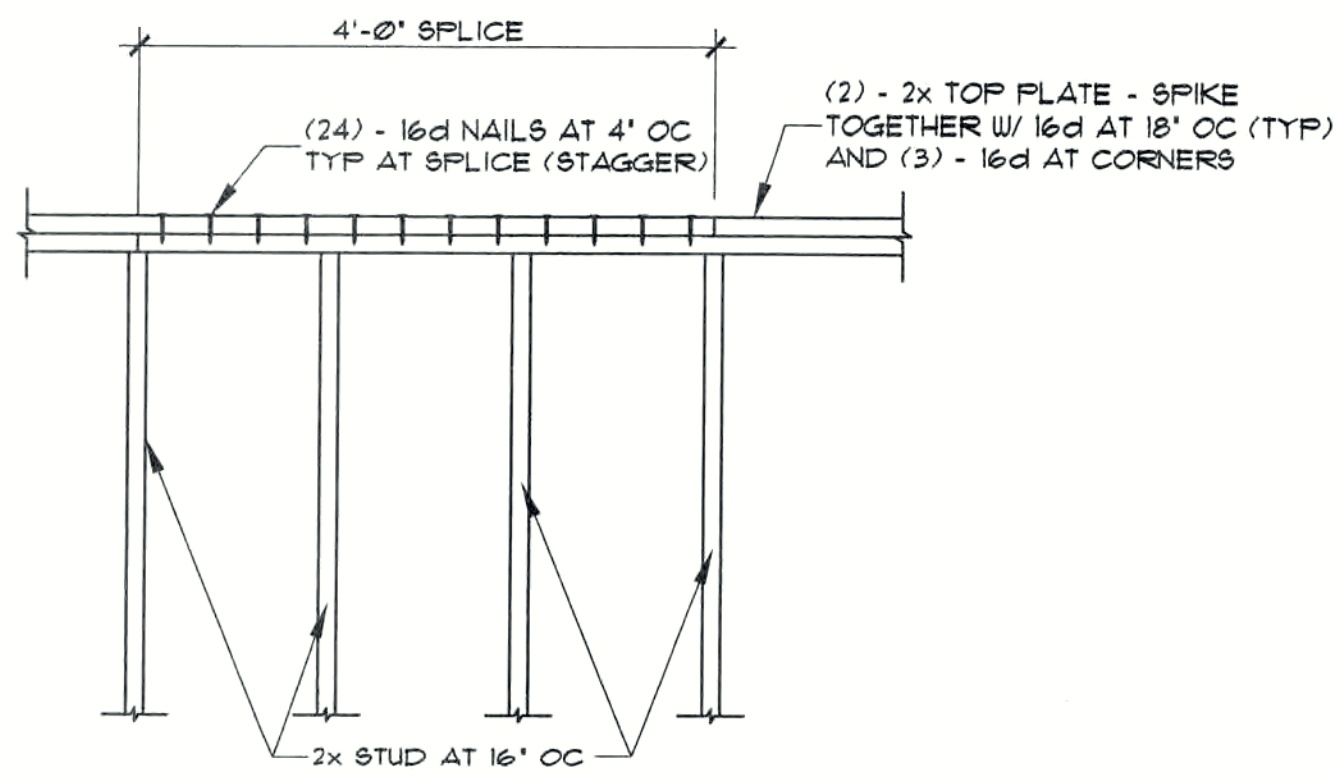
HOLDOWN	STUD BOLTS	ANCHOR BOLT DIA	3000 PSI		'Ø'	SIMPSON ANCHOR BOLT
			A	B		
HD2A	(2) - 5/8"	5/8"			3/8"	SSTB16
HD5A	(2) - 3/4"	5/8"	4 1/2"	12"	1/2"	SSTB16
HD6A	(2) - 7/8"	7/8"	4 1/2"	12"	9/16"	SSTB28
HD8A	(3) - 7/8"	7/8"	4 1/2"	15"	9/16"	SSTB28
HD10A	(4) - 7/8"	7/8"	4 1/2"	15"	9/16"	
HD14A	(4) - 1"	1"	4 1/2"	15"	5/8"	
HD15	(5) - 1"	1 1/4"	4 1/2"	15"	3 5/8"	

HOLDOWN	ALTERNATE ANCHOR BOLT
HD2A	5/8"ø x 5" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD5A	5/8"ø x 5" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD6A	7/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD8A	7/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD10A	7/8"ø x 12 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD14A	1"ø x 12 3/8" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HD15	1 1/4"ø x 12" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD

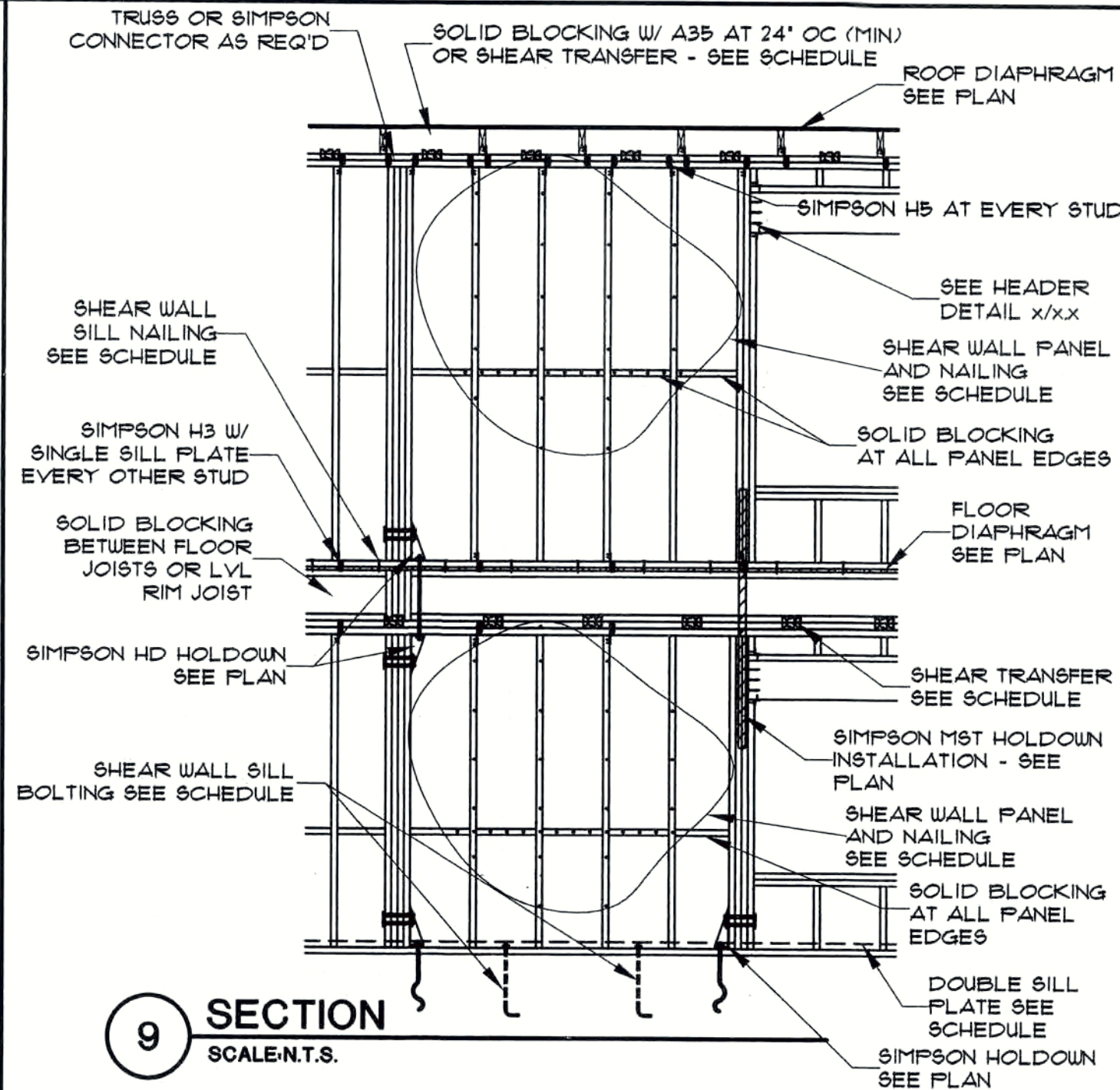
MARK	REVISION / ISSUE	DATE
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NAILING SCHEDULE	
CONNECTIONS	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	
2. BRIDGING TO JOIST, TOENAIL EA. END	
3. 1"x6" SUBFLOOR OR LESS TO EA. JOIST, FACE NAIL	3-8d
4. WIDER THAN 1"x6" SUBFLOOR TO EA. JOIST FACE NAIL	2-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-8d
6. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 18" OC
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	3-16d PER 16"
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24" OC
10. DOUBLE TOP PLATES, FACE NAIL	16d @ 16" OC
DOUBLE TOP PLATES, LAP SPICE	8-16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6" OC
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
14. CONTINUOUS HEADER, TWO PIECES	16d @ 16" OC ALONG EA. EDGE
15. CEILING JOIST TO PLATE, TOENAIL	3-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
17. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL	3-16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	3-16d
19. RAFTER TO PLATE, TOENAIL	3-8d
20. 1" BRACE TO EA. STUD AND PLATE, FACE NAIL	2-8d
21. 1"x8" SHEATHING OR LESS TO EA. BEARING, FACE NAIL	2-8d
22. WIDER THAN 1"x8" SHEATHING TO EA. BEARING, FACE NAIL	3-8d
23. BUILT-UP CORNER STUDS	16d @ 24" OC
24. BUILT-UP GIRDER AND BEAMS	20d @ 32" OC AT TOP AND BOTTOM AND STAGGERED 2-20d @ EA. ENDS AND AT EA. SPLICE
25. TRUSS TO PLATE, TOENAIL	3-16d

11 NAILING SCHEDULE
SCALE: 3/4" = 1'-0"



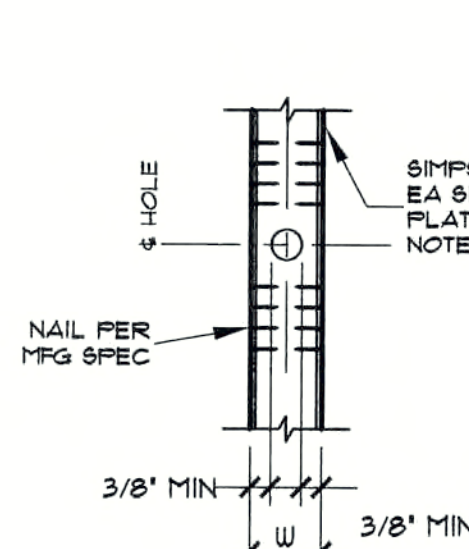
10 TOP PLATE SPLICE DETAIL
SCALE: 3/4" = 1'-0"



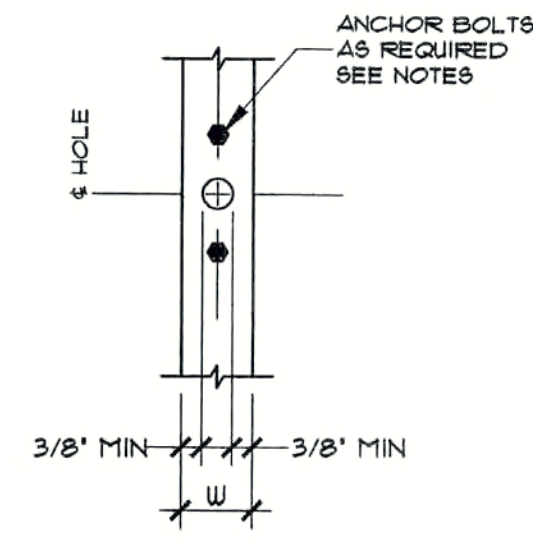
9 SECTION
SCALE: N.T.S.

NOTE

- HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD
- 'd' = MEMBER DEPTH



PLAN - DBL TOP PLATE

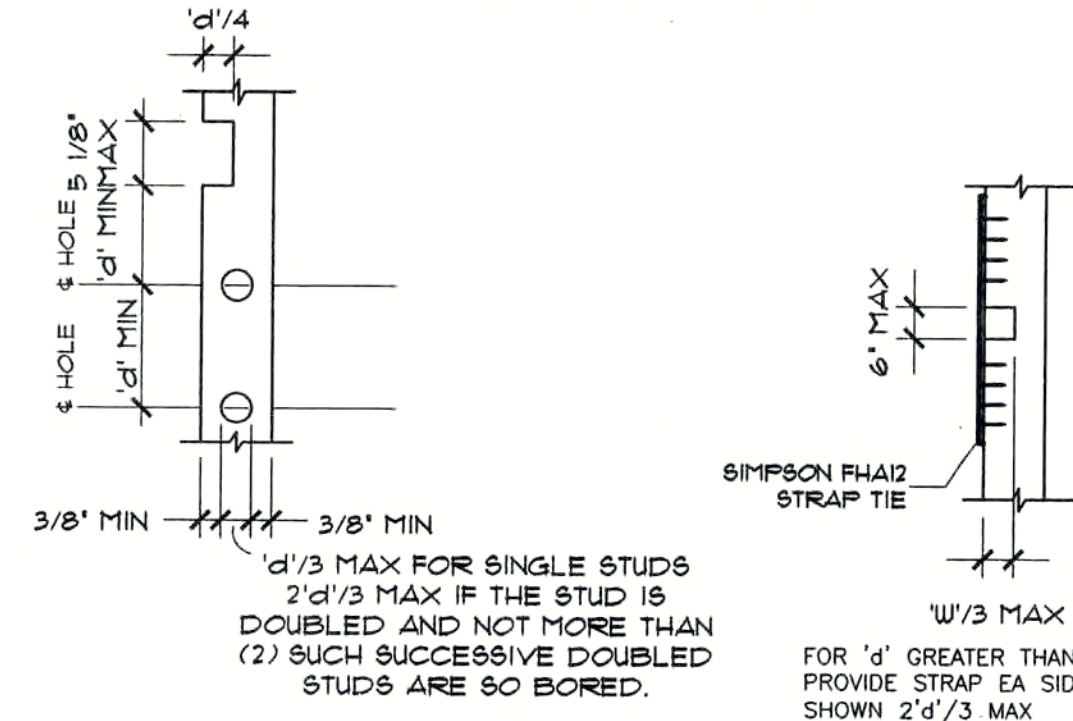


PLAN - SILL PLATE

8 HOLES IN PLATE
SCALE: 3/4" = 1'-0"

NOTE

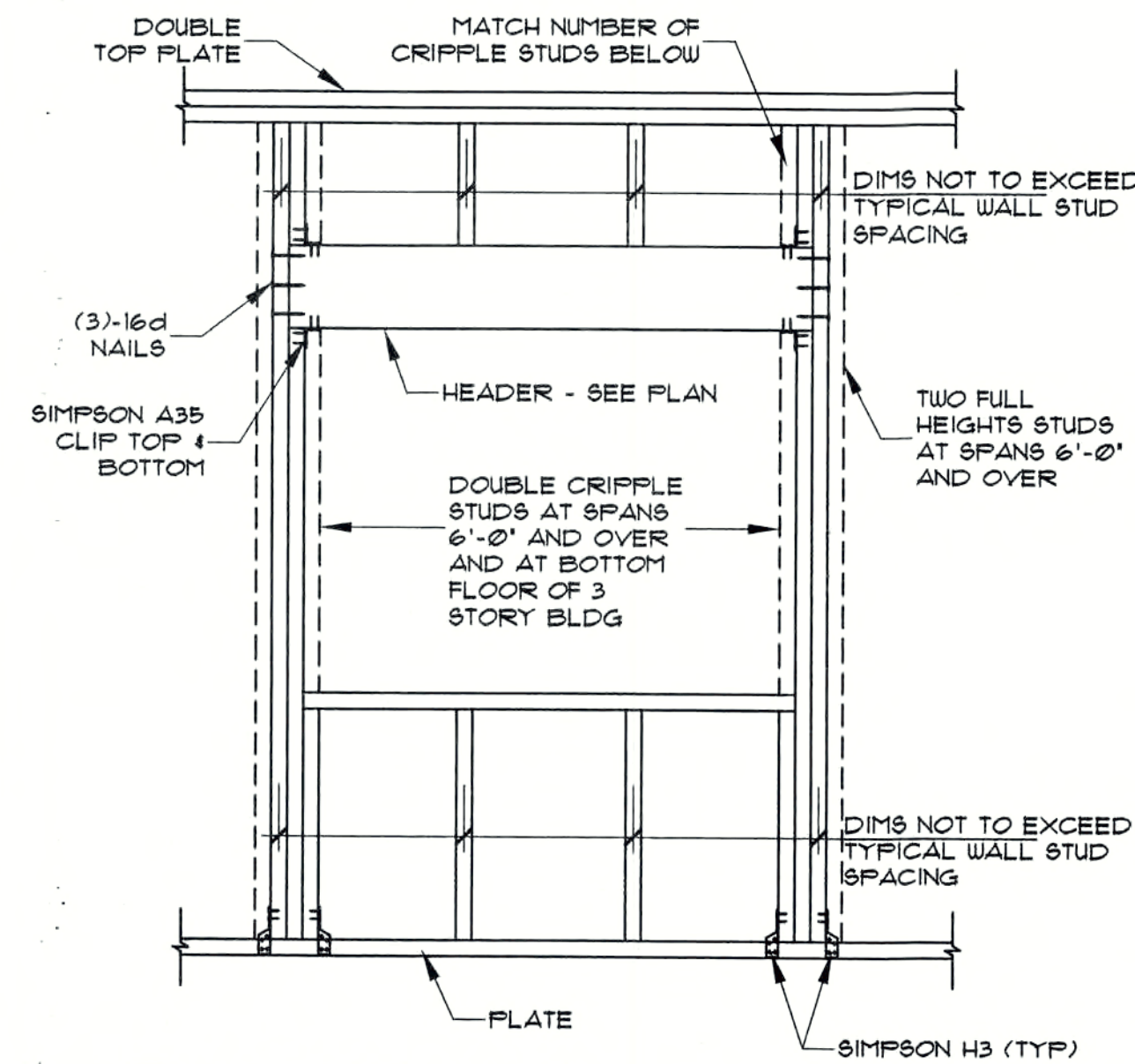
- HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD
- 'd' = MEMBER DEPTH



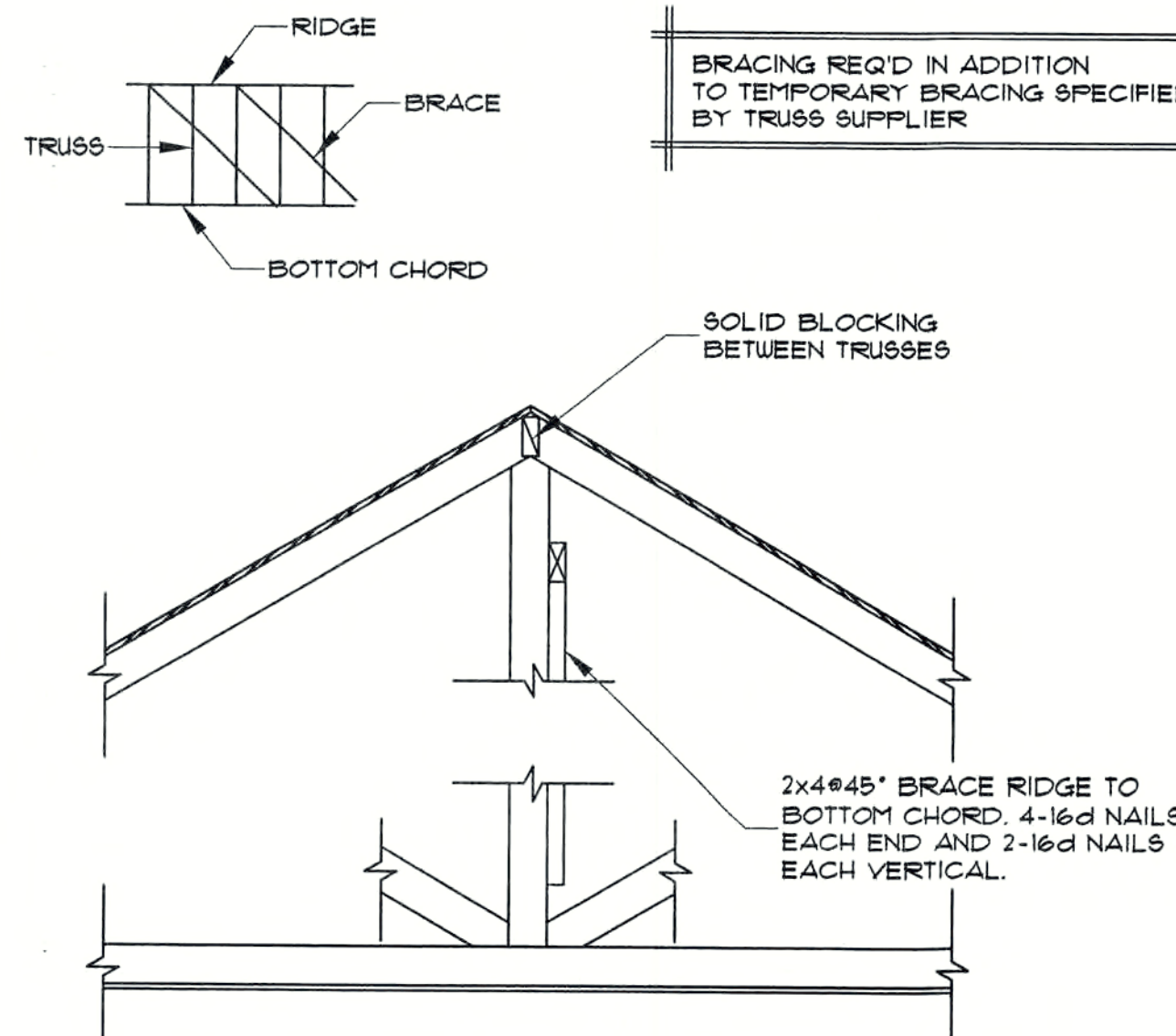
NOTCH OR HOLE IN STUD

PLAN - NOTCH IN PLATE

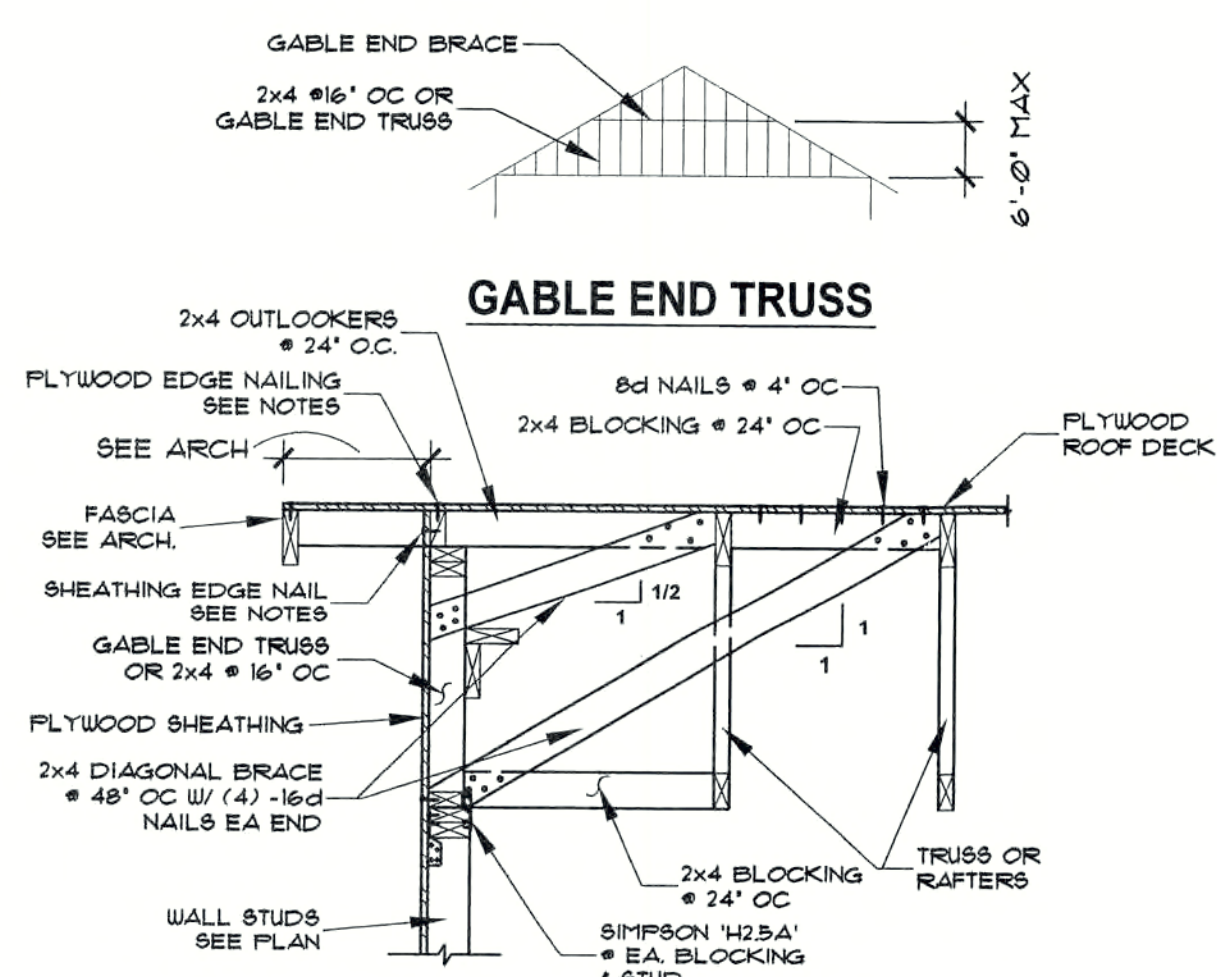
7 HOLE/NOTCH IN STUD/PLATE
SCALE: 3/4" = 1'-0"



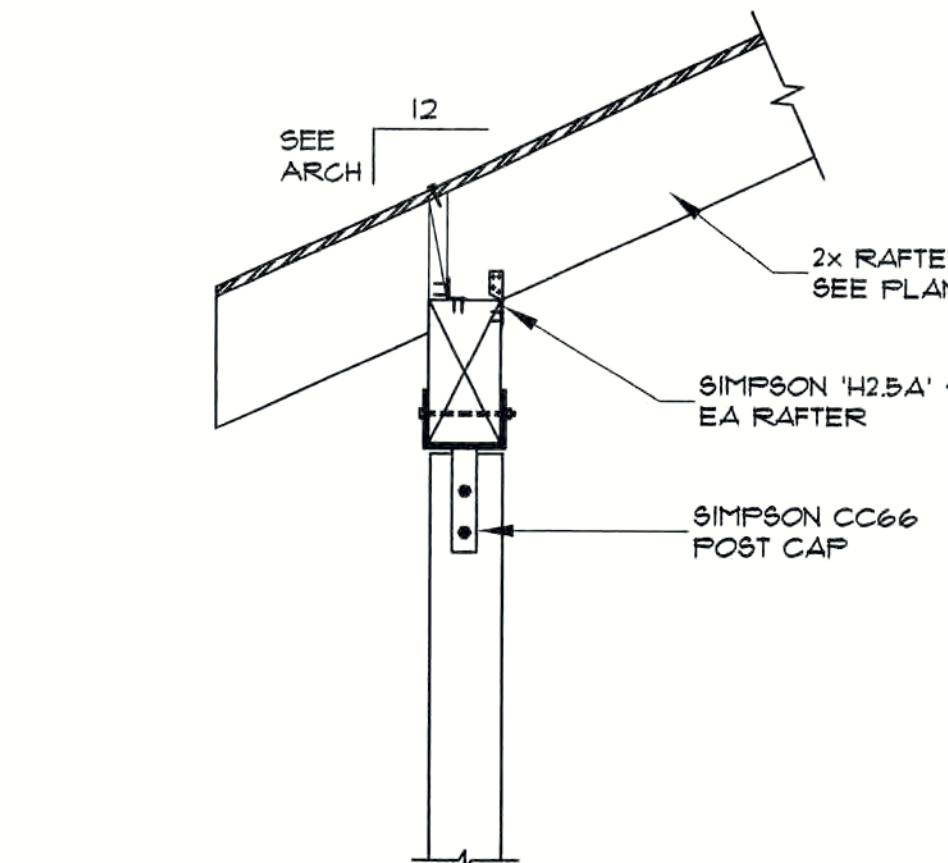
6 HEADER DETAIL
SCALE: N.T.S.



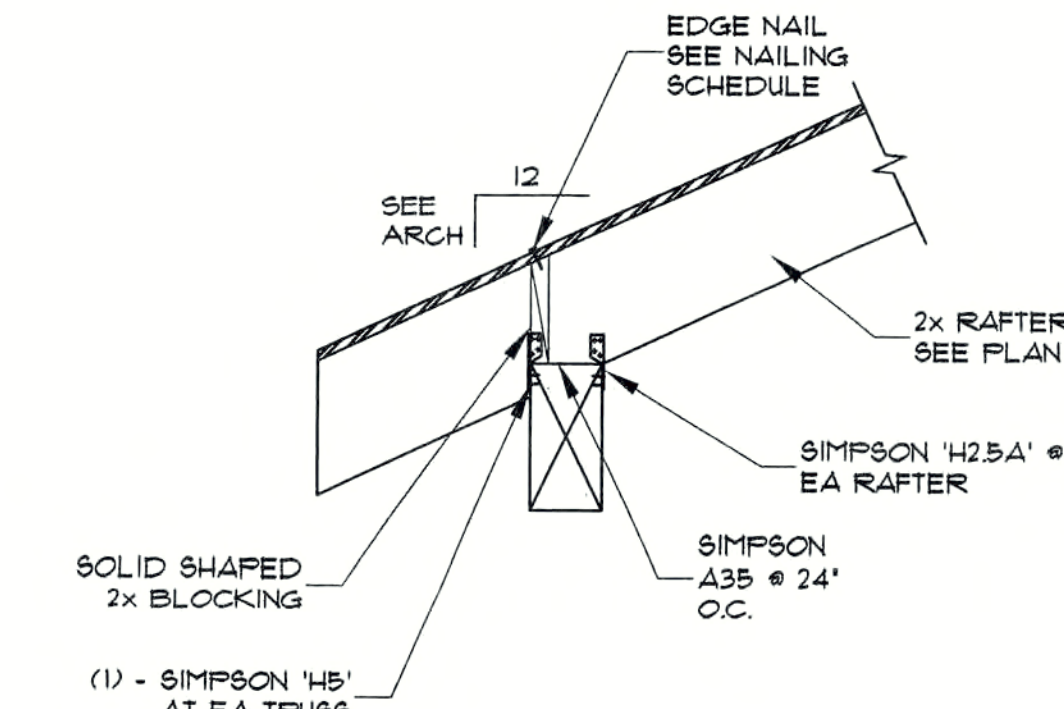
5 RIDGE BRACE DETAIL
SCALE: 3/4" = 1'-0"



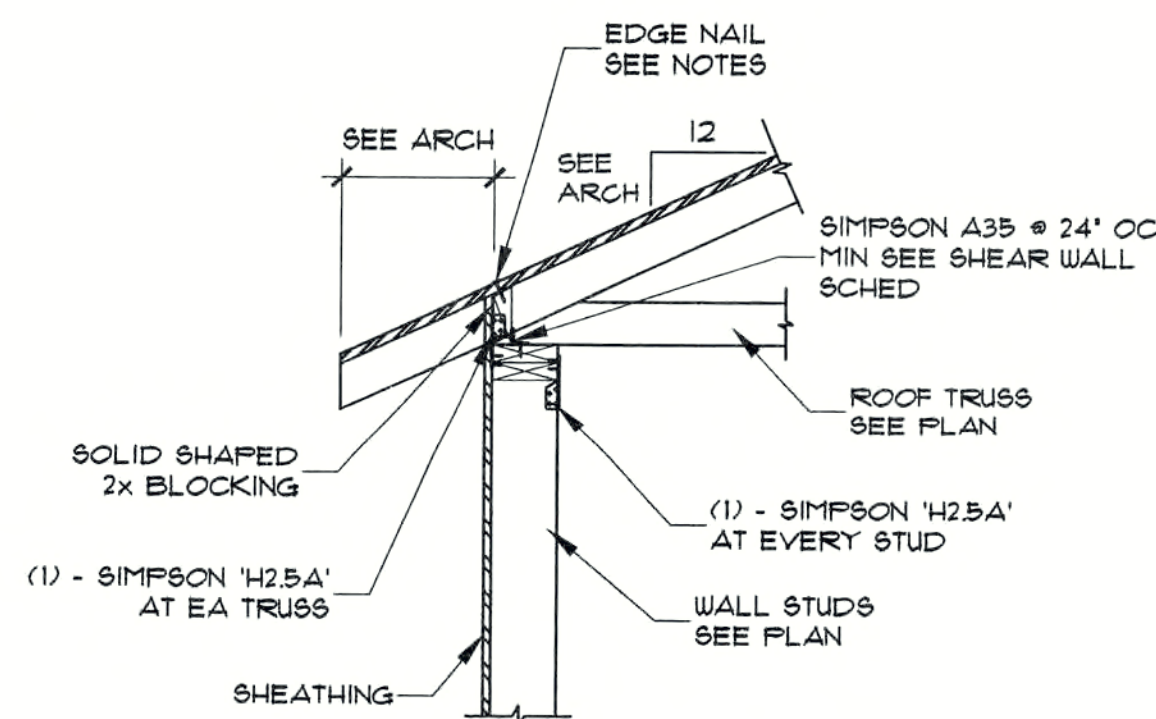
4 GABLE END DETAIL
SCALE: 3/4" = 1'-0"



3 RAFTER/BEAM DETAIL
SCALE: 3/4" = 1'-0"



2 BEAM BEARING DETAIL
SCALE: 3/4" = 1'-0"



1 TYPICAL EDGE DETAIL
SCALE: 3/4" = 1'-0"



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MARK	REVISION / ISSUE	DATE
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PROJECT NAME AND ADDRESS

**ABERCROMBIE
ACADEMY**

17102 THEISS MAIL RD.
SPRING, TEXAS 77379

REFERENCE NUMBER DATE
18016-00 07.08.08

TITLE
ROOF FRAMING DETAILS

DRAWING NUMBER

S4.1

208138

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

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

6 TYPICAL INTERIOR LOAD-BEARING WALL SUPPORTING TRUSSES
SCALE: 3/4" = 1'-0"

3 ROOF TRUSS PROFILE RT-1
SCALE: 3/16" = 1'-0"

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

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

5 EDGE DETAIL AT GIRDER TRUSS
SCALE: 3/4" = 1'-0"

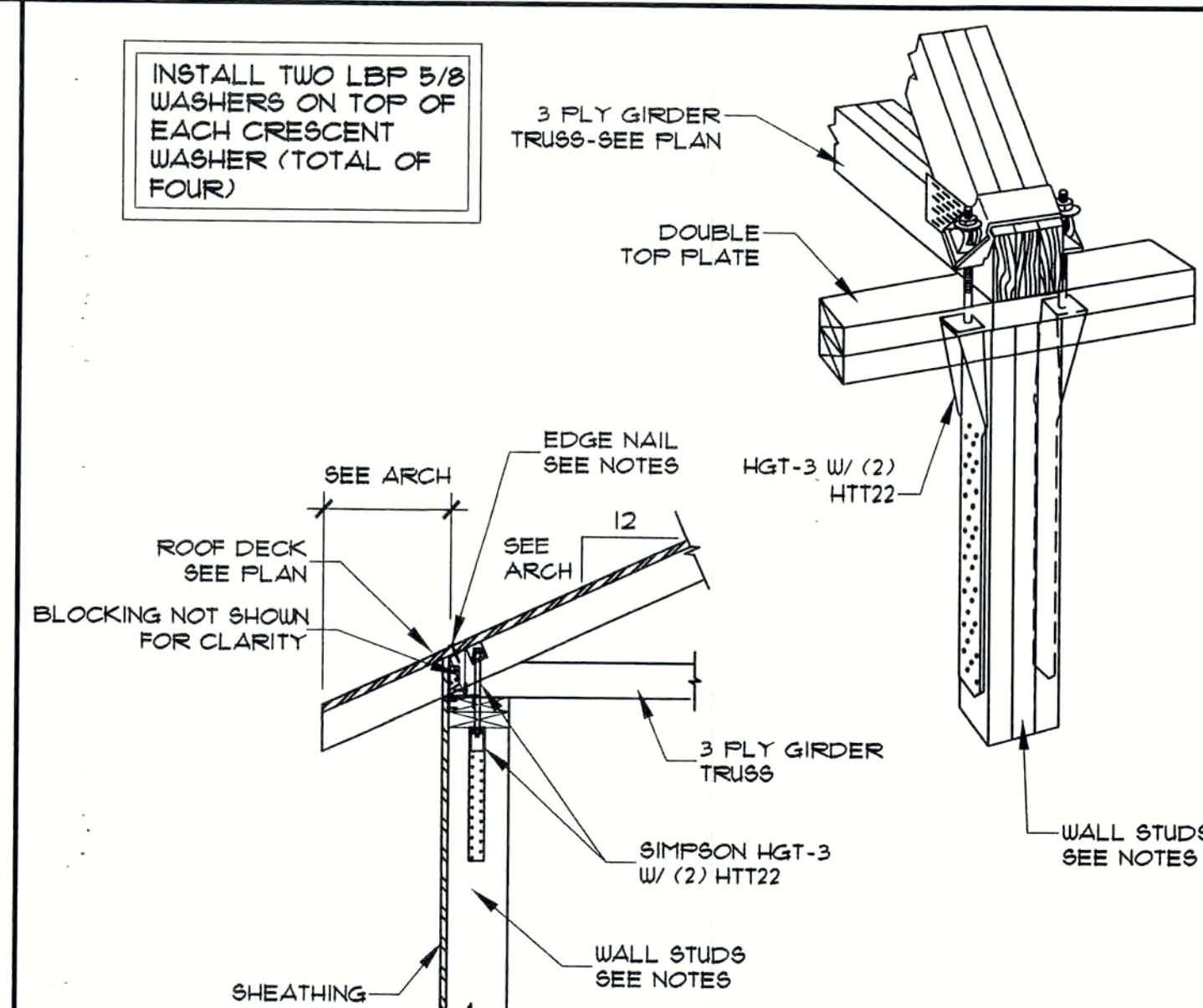
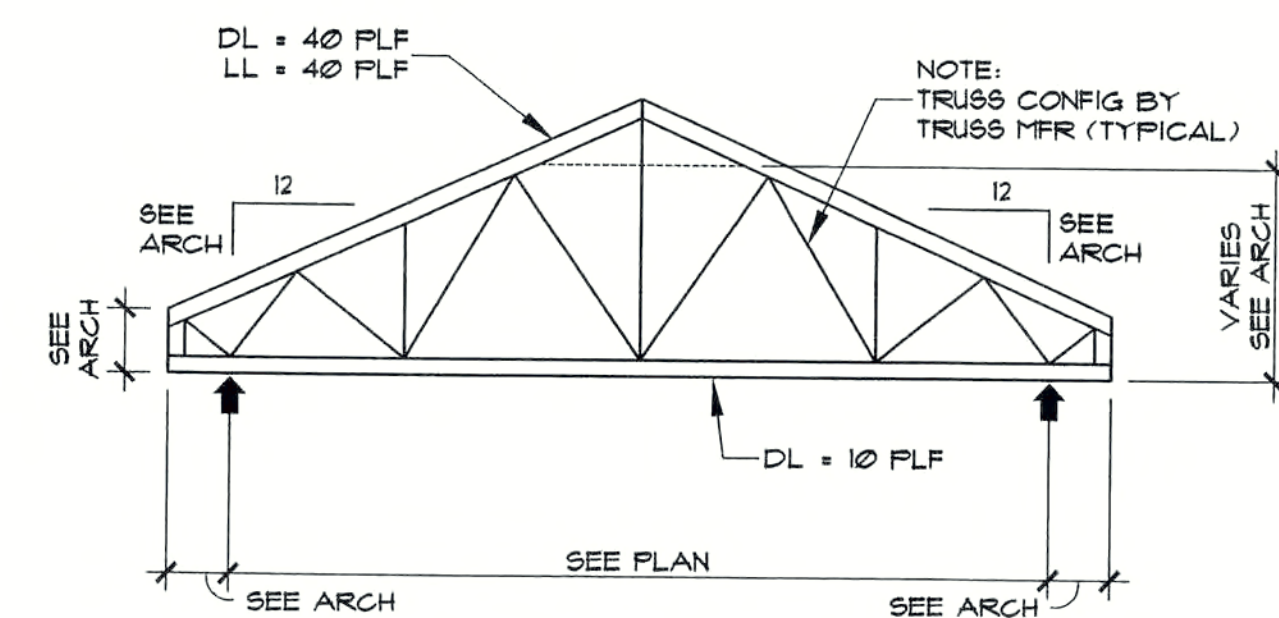
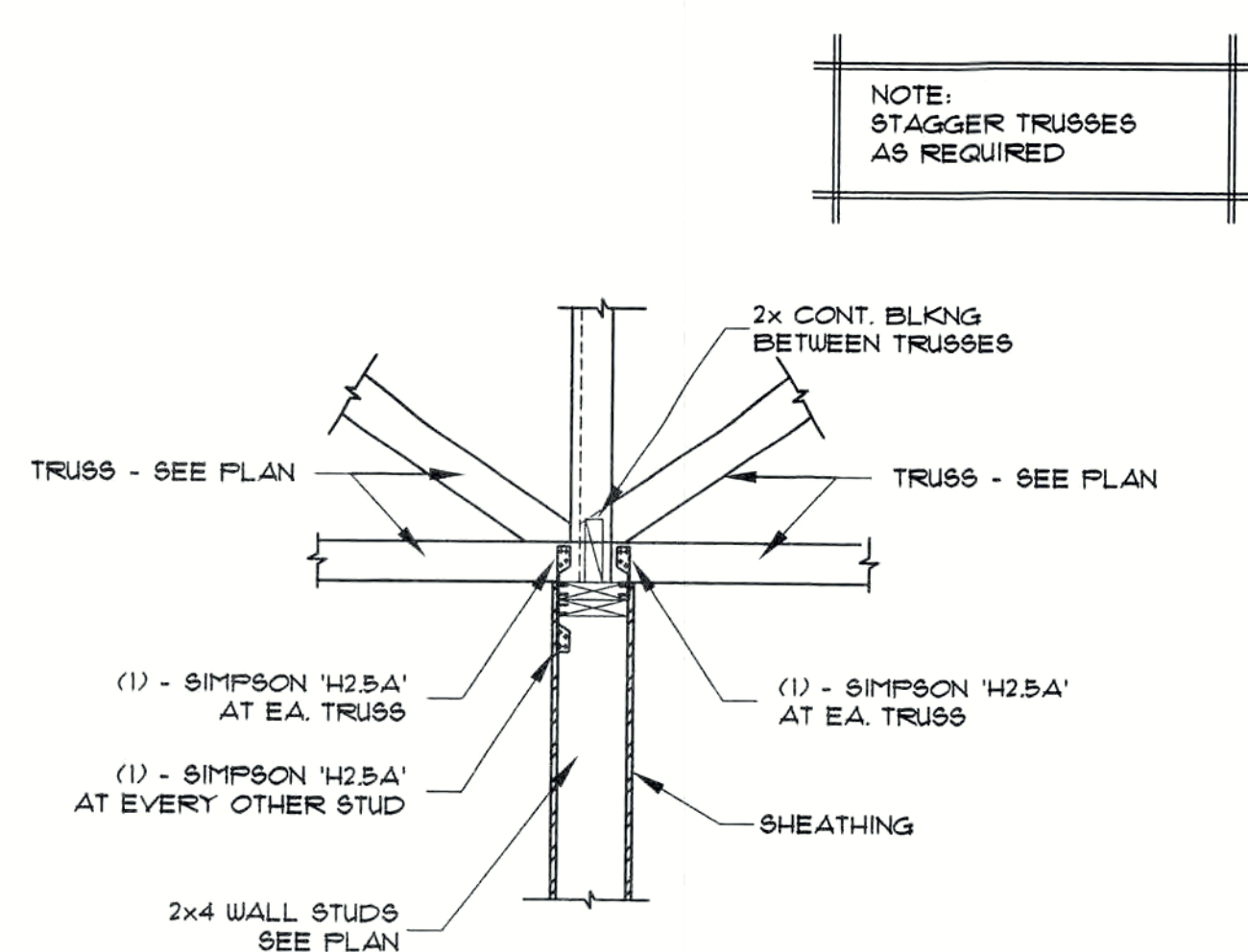
2 ANCHOR SCHEDULE
SCALE: NTS

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

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

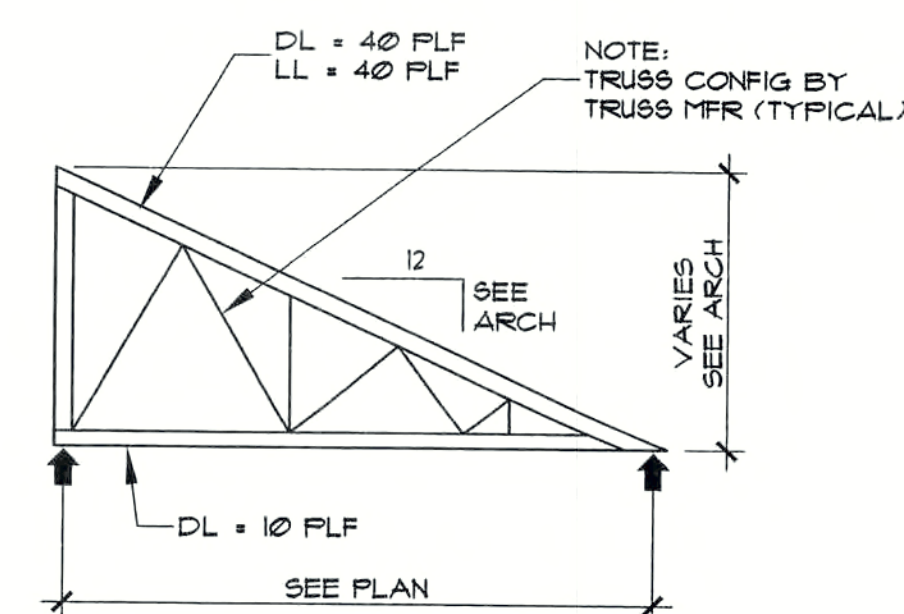
4 ROOF TRUSS PROFILE RT-2
SCALE: 3/16" = 1'-0"

1 HANGER SCHEDULE
SCALE: NTS



ROOF TRUSS UPLIFT ANCHOR SCHEDULE		
SIMPSON ANCHORS	ROOF TRUSS UPLIFT LOAD	REMARKS
H5	LOADS LESS THAN 455#	
H7 OR H10	LOADS LESS THAN 905#	WHERE STUD ALIGNS WITH TRUSS
MTS12 *	LOADS LESS THAN 1000#	OR GREATER SIZE AS REQ'D FOR INSTALLATION
H15	LOADS LESS THAN 1300#	12-10d TO STUD
MT28B	LOADS LESS THAN 4455#(2-PLY) LOADS LESS THAN 3465#(1-PLY)	24-16d NAILS 24-10d NAILS (TWO REQ'D)
THA218-2 **	LOADS LESS THAN 1550#	TWO PLY TRUSS
LTI20B	LOADS LESS THAN 1750#	TWO PLY TRUSS 10-16d NAILS (TWO REQ'D)
2-HDBA OR 4-HDBA	6465#	TWO PLY TRUSS
2-HDBA	3705#	ONE PLY TRUSS

* INSTALL SIMPSON MTS12 NEAREST ADJACENT STUD TO TOP PLATE.
** INSTALL SIMPSON MTS12 AT TWO NEAREST ADJACENT STUDS TO TOP PLATE.
INSTALL ALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.



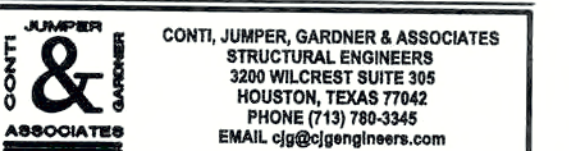
JOIST (BEAM OR TRUSS) HANGER SCHEDULE	
2x6	LUS26
2x8	LUS26
2x10	LUS28
2x12	LUS210
(2)-2x6	HUS26-2TF
(2)-2x8	HUS28-2TF
(2)-2x10	HUS210-2TF
(2)-2x12	HUS210-2TF
(3)-2x10	HUS210-2TF
(3)-2x12	HU212-3TF
3 1/2 x 9 1/4 PARALLAM	HW 149.25
5 1/4 x 9 1/4 PARALLAM	WP 5.31/9.25
5 1/4 x 12 PARALLAM	HWU 5.50/12
TRUSS TO TRUSS	AS SPECIFIED BY TRUSS ENGINEER

PROVIDE HANGERS AT ALL LOCATIONS WHERE MEMBERS FRAME TOGETHER AT THE SAME ELEVATION (U.N.O.).
SEE TIMBER GENERAL NOTES No. 21.
WHERE WOOD BEAMS FRAME INTO STEEL COLUMNS, PROVIDE 1/4" PLATE SADDLE WITH BEARING PLATE WELDED TO COLUMN.
PROVIDE SLOPED HANGERS WHERE REQUIRED.



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TITLE
**TRUSS AND
SCHEDULES**

DRAWING NUMBER

S4.2
208138