NEW BRANCH BANK FOR

CITIZENS BANK OF EFFINGHAM

PROJECT NO. 05.098

PORT WENTWORTH, GA. 31407

* PROVIDE TRUSS SHOP DRAWINGS

CITY OF PORT WENTWORTH
ZONING
BUILDING 9/8/06
MECHANICAL
PLUMBING
ELECTRICAL 9/8/06
FIRE
ENGINEERING
SITE

OWNER
Citizen's Bank of Effingham
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Fax: (912) 754-1398
Contact: Michael Lee

ARCHITECT
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CIVIL
Southeast Engineering & Environmental
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Contact: Toss Allen

STRUCTURAL
W. Hunter Saussy III, P.C.
400 Johnny Mercer Blvd.
Suite A2
Savannah, GA 31410
Tel: 912.898.8255
Fax: 912.898.1882
Contact: Hunter Suassy

CODE REVIEW

BUILDING IDENTIFICATION		CITIZENS BANK OF EFFINGHAM - PORT WENTWORTH BRANCH	
BUILDING OCCUPANCY CLASSIFICATION (IBC 2000 - 310)		NEW BUSINESS	
AREA ALLOWED PER FLOOR (IBC 2000 - TABLE 503)		9,000 S.F. PER FLOOR	
AREA PROVIDED PER FLOOR		3,922 S.F.	
	SF INCREASE PROVIDE BY AREA MODIFICATION	NOT REQUIRED	
TYPE OF CONSTRUCTION (IBC 2000 - 602.5)		TYPE Vb	
BUILDING HEIGHT ALLOWANCE (IBC 2000 - TABLE 503)		2 STORIES	
	BUILDING HEIGHT	42'-4"	
	HIGH RISE CRITERIA INVOKED	☐ YES ☒ NO (BUILDING TOP FLOOR IS LESS THAN 75' ABOVE LOWEST LEVEL FOR FIRE TRUCKS)	
NUMBER OF STORIES PROVIDED		2 STORIES	
FIRE RATING (IBC 2000 - TABLE 601)		WALLS & PARTITIONS	UL LISTING
	FIRE WALLS	2-Hour	
	BEARING WALLS (EXTERIOR)	NONE	NONE
	BEARING WALLS (INTERIOR)	NONE	NONE
	CORRIDOR WALLS	NONE	NONE
	STAIR WELL	2-HOURS	UL DESIGN NO. U301
	ELEVATOR WALLS	2-HOURS	UL DESIGN NO. 904
	STRUCTURAL BEAMS	NONE	NONE
	STRUCTURAL COLUMNS	NONE	NONE
	FLOOR/CEILING ASSEMBLY	NONE	NONE
	ROOF ASSEMBLY	NONE	NONE
STAIRS (IBC 2000 - TABLE 1003.2.3)		☐ OPEN ☒ ENCLOSED	
	STAIR WIDTH	MIN. REQUIRED: 44"	MIN. PROVIDED: 44"
	NUMBER OF FLOORS CONNECTED	2	
FIRE PROTECTION SYSTEM (IBC 2000 - 903.2.8)		☐ NFPA 13 ☐ NFPA 13R	
	SPRINKLER SYSTEM	REQUIRED ☐ YES ☒ NO	
		PROVIDED ☐ YES ☒ NO	
	STAND PIPES REQUIRED	☐ YES ☒ NO (GREATER THAN 30' ABOVE F.D. VEHICLE ACCESS)	
		TYPE ☐ DRY ☐ WET	
	FIRE EXTINGUISHERS	MAX DISTANCE ALLOWED: 75	
		MAX DISTANCE PROVIDED: 75	
EXITS REQUIRED (IBC 2000 - 1005, SEE TABLE 1005.2.1)		PER BUILDING: 2 MINIMUM WITHIN ALLOWED DISTANCE OF TRAVEL	
		PER FLOOR: 2 MINIMUM WITHIN ALLOWED DISTANCE OF TRAVEL	
	PER ROOM (GREATER THAN 50 OCCUPANTS)	NONE	
	HORIZONTAL EXITS	2 PER BUILDING	
	TRAVEL DISTANCE	MAXIMUM ALLOWED	200' -NON-SPRINKLERED
		MAXIMUM PROVIDED	78'
	DEAD END CORRIDOR	MAXIMUM DIST. ALLOWED	20' (LIFE SAFTY CODE)
		MAXIMUM DIST. PROVIDED	19'-6"
	UNITS OF EGRESS	REQUIRED: .2" PER PERSON (HORIZ) -.3" PER PERSON (VERT)	
		REQUIRED: 1ST FLOOR - (HORZ) 60" - 2ND FLOOR (HORZ & VERT) 60"	
		PROVIDED: 1ST FLOOR (HORZ) 120" - 2ND FLOOR (HORZ & VERT) 60"	
ROOF ACCESS (IBC 2000)		☐ STAIR ☐ LADDER ☐ STAIR TOWER ☒ N/A	
ATTIC VENTILATION REQUIRED (IBC 2000)		☐ YES ☒ NO	
		☒ PASSIVE ☐ MECHANICAL	

GENERAL NOTES

BAZEMORE MASTRIANNI WILSON & ASSOCIATES (DBA BMW ARCHITECTS) IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ABOVE NAMED COMPANY AND ARCHITECT OF RECORD ARE NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.

DRAWING INDEX

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON REQUEST.
- ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.
- DRAWINGS ARE NOT APPROVED FOR CONSTRUCTION PURPOSES UNTIL THE APPLICABLE JURISDICTION'S BUILDING/ SAFETY DEPARTMENT HAS REVIEWED AND APPROVED THEM.
- ALL GROUND UNDER CONSTRUCTION SHALL RECEIVE A TERMITE POISONING TREATMENT BY AN APPROVED EXTERMINATOR. THIS WORK SHALL BE IN ACCORDANCE WITH THE BUILDING RESEARCH REPORT OF THE NATIONAL ACADEMY OF SCIENCE AS RECOMMENDED IN THE APPROVED REFERENCE PROCEDURES FOR TERMITE CONTROL AS OUTLINED BY THE NATIONAL PEST CONTROL ASSOCIATION. THE CONTRACTOR SHALL FURNISH THE OWNER WITH A ONE YEAR BOND.
- DIMENSIONS REFLECT EDGE OF CONC. AT TYPICAL EXTERIOR WALLS TO COORDINATE WITH FLOOR PLAN SHEET. REFER TO THE SECTION SHEET TO PROPERLY DETERMINE CORRECT FOUNDATION STEM TREATMENT REGARDING EXTERIOR SKIRTING. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.
- UNLESS OTHERWISE STATED, ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AFTER 28 DAYS.
- MATERIAL FOR FILLS SHALL BE PLACED TO THE SUBGRADE ELEVATIONS AS SHOWN ON DRAWINGS. THE FILL SHALL BE COMPACTED TO A DENSITY OF 96 AS DETERMINED BY THE A.A.S.H.O. (T-99)
- AT CONCRETE PAD FOR CONDENSER EQUIPMENT, PROVIDE VIBRATION SEPARATION OF PAD AWAY FROM BUILDING FOUNDATION.
- PROVIDE BLOCKOUT IN WALL FOR ELECTRICAL RISER.
- SEAL AROUND ALL PENETRATIONS PASSING THROUGH FOUNDATION WALL.
- ALL SLABS SHALL RECEIVE A SMOOTH TROWEL FINISH, ALL PAVING SHALL RECEIVE A BROOM FINISH UNLESS SPECIFIED OTHERWISE.
- AT CONCRETE PAD FOR ALL ENTRY TO BUILDING PROVIDE VIBRATION SEPARATION OF PAD AWAY FROM BUILDING FOUNDATION.
- PROVIDE SIGNAGE AFFIXED TO EXTERIOR DOORS INDICATING "DOOR SHALL REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED" OR PROVIDE EMERGENCY PUSH-BAR HARDWARE.

ABBREVIATIONS

ALUM.	ALUMINUM
ACT.	ACOUSTIC CEILING TILE
ANOD.	ANODIZED
BD.	BOARD
B.S.	BOTH SIDES
C.J.	CONSTRUCTION JOINT
CONC.	CONCRETE
CONT.	CONTINUOUS
CMU.	CONCRETE MASONRY UNIT
CPT.	CARPET
CT.	CERAMIC TILE
H.M.	HOLLOW METAL
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
EXP.	EXPOSED
EXT.	EXTERIOR
F.F.	FINISH FLOOR
GYP.	GYPSUM
GL.	GLAZING
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
M.B.	MASONRY BEARING
MTL.	METAL
PLAM.	PLASTIC LAMINATE
PTD.	PAINTED
PT.	PRESSURE TREATED
STRUCT.	STRUCTURAL
SSMR.	STANDING SEAM METAL ROOF
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
VB.	VINYL BASE
VCT	VINYL COMPOSITION TILE
WD.	WOOD
WIN.	WINDOW

SYMBOLS LEGEND

SECTION — AXXX / AXXX
ELEVATION — AXXX / AXXX
INTERIOR ELEVATION — AXXX / AXXX / AXXX / AXXX
DOOR NUMBER — A100
WINDOW TYPE — XXX
ROOM NAME / ROOM NUMBER — XX / 000
REVISION — 00
COLUMN BUBBLE & GRID LINE — A
PARTITION TYPE — XX
DETAIL — AXXX / AXXX

BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM
PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

COVER SHEET

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
CERTIFICATE NO. 024566
REGISTERED ARCHITECT
7-24-2006

ISSUE DATE 07-24-2006
REVISIONS
PROJECT NO. 05.098
DRAWN BY MPF
SHEET NO.

CS

NOTES:

A. GENERAL

1. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.

2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.

3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.

4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. (NAVD 88)

5. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.

6. SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AS MEASURED BY A.A.S.H.T.O. METHOD T-99. 9.

7. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING , EDGE OF SURFACE COURSE OR BACK OF CURBING.

8. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE CITY OF PORT WENTWORTH.

10. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH GA. D.O.T. STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

12. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.

13. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.

14. CONTRACTOR SHALL PROVIDE CRUSHED STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.

15. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.

16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.

17. THE DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHOULD CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.

18. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

19. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

20. THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM-D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557. THE CITY OF PORT WENTWORTH WILL REQUIRE THE ENGINEER TO CERTIFY THE PROOF ROLLING PROCESS AND THE RESULTS OF THE PROOF ROLL.

21. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHOULD BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.

22. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.

23. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PER GADOT, M.U.T.C.D. AND CITY OF FOOLER SPECIFICATIONS.

24. ALL STANDARD HIGHWAY SIGNS AND POSTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTIAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS .

WATER - SEWER NOTES:

1. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.

2. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE DILUTED AND DISCHARGED IN ACCORDANCE WITH AWWA C651-99 "DISINFECTING WATER MAINS" SEC.4.5-4.5.2.

3. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE LOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND OTHER FOREIGN MATTER AT ALL TIMES.

4. ANY DEFECTIVE, DAMAGED OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY APPROVED MEANS AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.

5. CLEAN THE INTERIORS OF ALL PIPE BY WASHING OUT ALL DIRT BEFORE LAYING.

6. FLUSH THE NEW PIPE LINES UNTIL WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION.

7. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.

8. MAINTAIN A MINIMUM OF EIGHTEEN (18") INCH VERTICAL CLEARANCE BETWEEN THE WATER LATERAL AND THE STORM DRAINAGE.

9. ALL CONNECTIONS TO THE CITY OF FOOLER'S EXISTING MANHOLES SHALL BE DONE BY THE CORE DRILL METHOD.

10. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE. SET ALL MH TOPS ±3" ABOVE FINISHED GRADE.

11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CERTIFICATIONS OF BACKFLOW DEVICES TO THE ENGINEER.

12. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT 1-800-282-7411 TO INSURE PROPER LOCATIONS OF EXISTING UTILITIES.

13. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AND APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER.

14. ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + (NPT) NATIONAL PIPE THREAD.

15. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFCTURED BY AMERICAN, DARLING, MUELLER OR M&H.

16. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.

17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICT WITH EXISTING UTILITIES NOT SHOWN ON THESE PLANS PRIOR TO LAYING ANY PIPE.

18. FIRE HYDRANTS SHALL BE AT LEAST 18" ABOVE FINISHED GRADE (MEASURED FROM BOTTOM OF 4-1/2" DISCHARGE TO FINISHED GRADE).

LEGEND

NEW	EXISTING	
W	W	WATER LINES
		VALVES
		FIRE HYDRANT
SAN	SAN	SANITARY SEWER
		SANITARY MANHOLES
FM	FM	FORCE MAIN
		BUILDING
		CONCRETE PAVING
15" RCP @ 0.20%	45 LF 15" RCP	STORM DRAIN PIPE
		GRATE INLET
		CONCRETE CURB & GUTTER
		ASPHALT PAVING
X X X	X X	FENCE
15	15	CONTOUR LINE

TP	TOP OF PAVEMENT ELEV.
TC	TOP OF CURB ELEV.
G	GUTTER ELEV.
FG	FINISHED GRADE
TW	TOP OF WALK ELEV.
FF	FINISH FLOOR

CAUTION

UTILITY PROTECTION CENTER

3 DAYS BEFORE DIGGING CALL TOLL FREE 1-800-282-7411

BMW ARCHITECTS

architecture
interiors
planning

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savannah, GA 31405
31 Park of Commerce Way Suite 400 Sa
p. 912.447.5665 f. 912.447.5664

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

GENERAL NOTES AND LEGEND

SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHAD W. LOVINGOOD

ISSUE DATE 07/24/06

REVISIONS

PROJECT NO. 06015

DRAWN BY JLH

SHEET NO. C-1

SITE DATA:

1. P.I.N.: 7-0037-01-036

2. PROPERTY ADDRESS: 7224 HIGHWAY 21
   PORT WENTWORTH, GEORGIA 31407

3. ZONING: P-C-3

4. TOTAL LAND ACREAGE = 2.36 ACRES
   DISTURBED = 1.52 ACRES
   WETLAND = 0.00 ACRES

5. TYPICAL BUILDING:
   2 STORY
   7,864 S.F. GROSS
   7,067 S.F. LEASEABLE (90%)

6. PARKING CRITERIA
   1 SPACE PER 175 S.F. OF LEASEABLE AREA
   + 4 SPACES / DRIVE THRU

7. PARKING CALCULATIONS
   7,067 S.F. X (1 SPACE/175 S.F.)
   + 4 SPACES / DRIVE THRU = 60 SPACES
   PARKING REQUIRED = 60 SPACES
   58 STANDARD SPACES (10' X 20')
   2 HANDICAPPED SPACES
   (MINIMUM 1 VAN ACCESSIBLE SPACE, AS PER ADA REQUIREMENT)

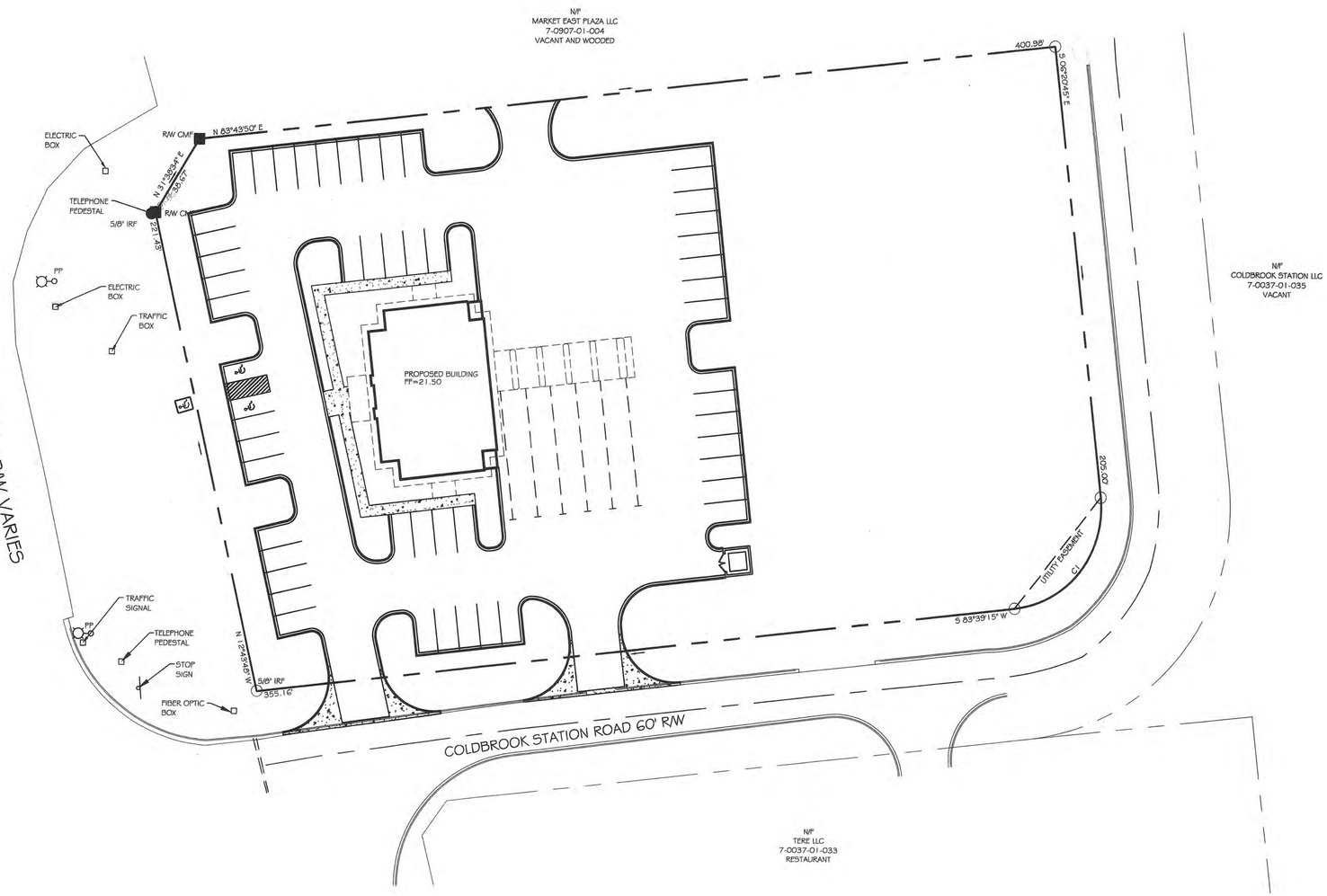
8. PARKING PROVIDED = 57 PERPENDICULAR SPACES + 4 SPACES IN EACH DRIVE AISLE = 77 SPACES
   55 STANDARD SPACES (10' X 20')
   2 HANDICAPPED SPACES
   (MINIMUM 1 VAN ACCESSIBLE SPACE, AS PER ADA REQUIREMENT)

9. ALL EXTERIOR LIGHTING WILL BE DOWNLIT AND GLARE WILL BE DEFLECTED, SHAPED AND FOCUSED AWAY FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.

10. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE LABELED.

11. ALL RADIUS ARE 5' UNLESS OTHERWISE LABELED.

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	BEARING
C1	70.69	45.00	90°00'03"	45.00	63.64	N38°39'15"E



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

MAGNETIC

BMW ARCHITECTS

architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

SITE PLAN

SEAL

GEORGIA REGISTERED No. 30117 PROFESSIONAL ENGINEER CHAD W. LATCHEY

ISSUE DATE 07/24/06

REVISIONS

PROJECT NO. 06015

DRAWN BY JLH

SHEET NO. C1.1

EROSION AND SEDIMENT NARRATIVE NOTES:

1. DESCRIPTION: THE SITE IS LOCATED HWY 21 IN PORT WENTWORTH, GEORGIA. THE 2.36 ACRE SITE IS CURRENTLY VACANT AND CLEAR. THE OWNER PLANS TO BUILD A BANK ON THIS SITE. THE P.I.N. FOR THIS SITE IS 7-0037-01-036.
2. ZONING: THE PRESENT ZONING CLASSIFICATION FOR THIS SITE IS P-C-3.
3. SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION: FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE PAVING,GRADING AND DRAINAGE PLAN, AND THE SOIL EROSION PLAN OF THE CONSTRUCTION DRAWINGS.
4. VEGETATION: THE VEGETATION ON THIS SITE IS PRIMARILY GRASS AND WEEDS. ANY SUITABLE TOP SOIL WILL BE STOCKPILED ON SITE AND LATER SPREAD IN PROPOSED VEGETATIVE AREAS. SEE THE STAKING PLAN FOR CLEARING LIMIT INFORMATION.
5. BUFFER REQUIRMENTS: AS REQUIRED BY ARTICLES 15 AND 16 OF SECTION 12-7-6 OF THE "GEORGIA EROSION AND SEDIMENTATION ACT OF 1975", THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STEAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF THE NATURAL RESOURCES AND THE ENVIRONMENT, WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO OCGA 12-2-8, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.
6. EROSION CONTROL PROGRAM: CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL WILL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND-DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTILLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.
7. SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF 1,015 LINEAR FEET OF SEDIMENT FENCE. A CONSTRUCTION EXIT SHALL BE INSTALLED TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC.
8. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
9. SAFETY PROTECTION: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS. THE SEDIMENT BASINS DESIGNED IN PHASE II WILL BE CONVERTED TO STORM WATER DETENTION STRUCTURES.
10. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE AREAS WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

Ds2–Ds3 NOTES:

Ds2 - 1. A TEMPORARY GRASSING OF RYEGRASS SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE. THE PROPOSED RYEGRASS SHALL BE APPLIED DURING THE MONTHS OF SEPTEMBER AND OCTOBER.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.

Ds3 - 1. A PERMANENT GRASSING OF SERICEA LESPEDEZA SHALL BE APPLIED AT A RATE OF 75 LBS. PER ACRE DURING THE MONTHS OF OCTOBERAND NOVEMBER. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
3. DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPEMENT, OTHER SPREADING EQUIPEMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

11. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
12. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRATICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
13. THE TOTAL SITE ACREAGE FOR THIS PHASE OF DEVELOPMENT IS 2.36 ACRES. THE TOTAL DISTURBED AREA IN THIS PHASE IS 1.52 ACRES.
14. THIS SITE IS LOCATED IN ZONE X, NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP COMMUNITY NO. 130030 PANEL 0030 C, MAP DATED: MAY 19,1987
15. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:
    SOUTHEAST ENGINEERING AND ENVIRONMENTAL
    P.O. BOX 1749
    RINCON, GA 31326
    (912) 826-1125
16. DEVELOPER/OWNER:
    CITIZENS BANK OF EFFINGHAM
    802 S. LAUREL STREET
    SPRINGFIELD, GA 31329
    (912) 754-0754
17. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL.
    SOUTHEAST ENGINEERING AND ENVIRONMENTAL
    P.O. BOX 1749
    RINCON, GA 31326
    (912) 667-2667
    (912) 667-1098
18. THE EXISTING SOILS TYPES ARE AS FOLLOWS:
    Pn - Pooler Fine Sandy Loam

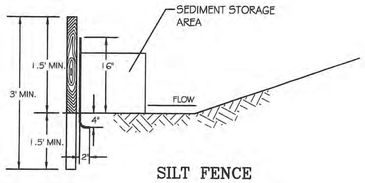
SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATES PER ACRE SEEDED ALONE	RATES PER ACRE ADDED TO MIX	PERMANENT COVER	RATES PER ACRE SEEDED ALONE	RATES PER ACRE ADDED TO MIX
JANUARY	RYEGRASS RYE	40 lbs. 3 bu.	- .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA [1]	10 lbs. 75 lbs.	6 lbs. -
FEBRUARY	ANNUAL LESPEDEZA RYEGRASS RYE	40 lbs. 40 lbs. 3 bu.	10 lbs. - .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA [1]	10 lbs. 75 lbs.	8 lbs. -
MARCH	WEEPING LOVEGRASS ANNUAL LESPEDEZA	4 lbs. 40 lbs.	4 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 10 lbs. 60 lbs.	30 lbs. 8 lbs. -
APRIL	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET	4 lbs. 80 lbs. 40 lbs.	4 lbs. 80 lbs. 40 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
MAY	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET PEARL MILLET	4lbs. 60 lbs. 40 lbs. 50 lbs.	4lbs. 60 lbs. 40 lbs. 50 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
JUNE	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA	60 lbs. 10 lbs.	30 lbs. 6 lbs.
JULY	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA	60 lbs.	30 lbs.
AUGUST	PEARL MILLET RYE	50 lbs. 3 bu.	50 lbs. 3 bu.	PENSACOLA BAHIA	60 lbs.	30 lbs.
SEPTEMBER	RYEGRASS OATS WHEAT	40 lbs. 4 bu. 3 bu.	40 lbs. 4 bu. 3 bu.	SERICEA LESPEDEZA [1]	75 lbs.	-
OCTOBER	RYEGRASS OATS WHEAT RYE BARLEY	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	SAME AS SEPTEMBER	SAME AS SEPTEMBER	
NOVEMBER	SAME AS OCTOBER	SAME AS OCTOBER		SAME AS SEPTEMBER	SAME AS SEPTEMBER	
DECEMBER	SAME AS OCTOBER	SAME AS OCTOBER		SAME AS SEPTEMBER	SAME AS SEPTEMBER	

NOTES
1. [1] UNSCARIFIED
2. [2] SCARIFIED
3. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
4. LISTED IN ORDER OF PREFERENCE.
5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

TENTATIVE ACTIVITY SCHEDULE

	AUG 2006	SEPT 2006	OCT 2006	NOV 2006
CLEARING AND GRUBBING				
CONSTRUCTION EXIT (Co)				
SEDIMENT BARRIER (Sd1)				
DUST CONTROL (Du)				
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2				
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) Ds3				
GRADING				
PAVING				



SILT FENCE

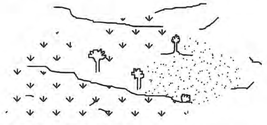
THE SILT FENCING SHALL BE UTILIZED TO TEMPORARILY STORE SEDIMENT FROM THIS SITE. EVERY 100' OF FENCING SHALL HAVE A MAXIMUM OF 1/4 ACRE DRAINING TO IT. SINCE THERE IS APPROX. 1015 LF OF SILT FENCE ON THIS SITE, THE STORAGE CAN BE ACHIEVED BY ALLOWING SEDIMENT TO ACCUMULATE TO A MAXIMUM DEPTH OF 0.50' (1/3 THE HEIGHT OF THE SILT FENCE) AND A MAXIMUM OF 8' AWAY FROM THE SILT FENCE.

1.52 ACRES X 67 CY/ACRE = 102 CY REQUIRED STORAGE
102 CY X 27 CF/CY = 2,754 CF REQUIRED STORAGE
1,015' X 0.50' X 8' = 4,060 CF PROVIDED STORAGE
4,060 CF > 2,754 CF THEREFORE THERE IS ADEQUATE STORAGE PROVIDED

THE REASON THAT WE ARE USING SILT FENCE AS SEDIMENT STORAGE IS SIMPLY LACK OF AREA. SIGNIFICANT GRADING WILL BE TAKING PLACE ON THIS SITE UP TO THE PROPERTY LINES. WE WILL NEED ALL THE ROOM THAT WE CAN GET FOR ACCESS AND MANEUVERABILITY OF THE GRADING MACHINES. CALCULATIONS HAVE BEEN PERFORMED TO MAKE SURE THAT THE SILT FENCE WILL PROVIDE THE NECCESSARY STORAGE AND THAT EVERY 100' OF FENCING WILL HAVE LESS THAN 1/4 ACRE DRAINING TO IT.

Ds3 DISTURED AREA STABILIZATION (With Permanent Vegetation)

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.
-TO STABILIZE THE SOIL
-TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS
-TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES



*APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS"

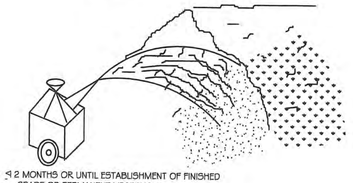
INCLUDING:
-CUT OR FILL SLOPES
-EARTH SPILLWAYS
-BORROW AREAS
-CHANNEL BANKS
-BERMS
-ROADSIDES
-SPOILS AREAS
-GULLIED LANDS

*GRADING AND SHAPING REQUIRED WHERE FEASIBLE PRACTICAL
*SEEDED PREPARATION
-NOT REQUIRED IF USING HYDRAULIC SEEDING AND FERTILIZING
-WHEN REQUIRED:

SLOPE	SEEDBED
3:1 OR FLATTER	> 4" DEEP
2:1 TO 3:1	1" TO 4" DEEP
2:1 OR STEEPER	DEPRESSION EVERY 6'-8' WITH HAND TOOL

*HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE
*MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROADBANKS
*ANCHOR MULCH IMMEDIATELY

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



* 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETAION

* SITE PREPARATION
-GRADING AND SHAPING
-SEEDBED PREPARATION
-APPLY LIME AND FERTILIZER
-PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
-APPLY MULCHING MATERIAL IF NEEDED
-IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

*PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED OR DENUDED AREAS.

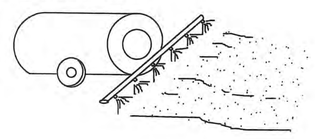
SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES	RATE PER 1,0000 SQ. FT.	RATE PER ACRE§	PLANTING DATES& MTS-LSTONE	PIEDMONT	COASTAL
RYEGRASS	0.9 POUNDS	40-50 LBS.	8/1-12/1	8/15-1/1	8/15-3/1
ANNUAL LESPEDEZA	0.9 POUND	40 LBS.	3/1-4/1	3/1-4/1	2/1-3/1
WEEPING LOVEGRASS	0.1 POUNDS	4-6 LBS.	3/15-8/1	3/1-8/15	2/15-8/15

* ALL SEEDING NUMBERS ARE ALONE FOR MIXTURE NUMBER SEE MANUAL FOR EROSION AND SEDIMENT TABLE 6-24.1 PAGES 6-134 - 6-136.

§ UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
& SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

CONTROLLING DUST AT THE SITE



*TEMPORARY METHODS:
-MULCHES
-TEMPORARY VEGETATIVE COVER
-SPRAY ON ADHESIVES
-TELLAGE
-IRRIGATION
-BARRIERS
-CALCIUM CHLORIDE

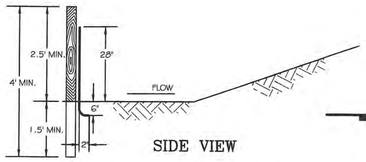
*PERMANENT METHODS
-PERMANENT VEGETATION
-TOPSOILING
-STONE COVER

*CHEMICAL CONTROL

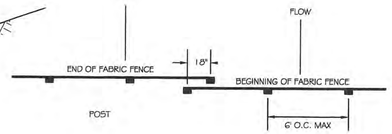
ADHESIVE ADHESIVE	WATER DELUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIOIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

Du

DUST CONTROL ON DISTURBED AREAS

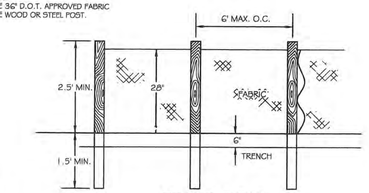


SIDE VIEW



TOP VIEW
OVERLAP AT FABRIC ENDS

NOTE:
USE 36" D.O.T. APPROVED FABRIC
USE WOOD OR STEEL POST.



FRONT VIEW

TYPE A FABRIC (36")

USE:
1) ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS.
2) WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.

POST SIZE

MIN. LENGTH	TYPE OF POST	SIZE OF POST
4'	SOFT WOOD	3" DIA. OR 2X4
4'	OAK	1.50 LB./FT. MIN.
4'	STEEL	1.33 LB./FT. MIN.

FASTENERS FOR WOOD POST (WIRE STAPLES)

GAUGE	CROWN	LEGS	STAPLES/POST
17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.

FASTENERS FOR WOOD POST (NAILS)

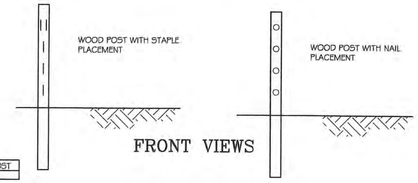
GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
14 MIN.	1"	3/4"	4 MIN.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

FENCE

TENSILE STRESS (LBS. MIN.) (1) (ASTM D-4632)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL/MIN./SQ. FT.) (GDT-87)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STRESS (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	MIN. FABRIC WIDTH (INCHES)
WARP-120 FILL-100	40	#30	25	80	175	36

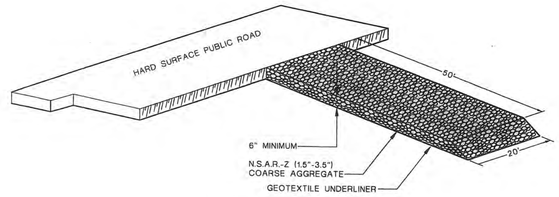
(1) MIN. ROLL AVERAGE OF FIVE SPECIMENS.
(2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.



FRONT VIEWS

FASTENERS FOR TYPE A & B SILT FENCES

Sd1-A SILT FENCE - TYPE A



CONSTRUCTION EXIT
NOT TO SCALE
Co

BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SEAL

ISSUE DATE 07/24/06
REVISIONS
PROJECT NO. 06015
DRAWN BY JLH
SHEET NO. C-2

bmwarchitects.com 31 Park of Commerce Way Suite 400 Savannah, GA 31405 p. 912.447.5665 f. 912.447.5664

SITE DATA:

1. P.I.N.: 7-0037-01-036

2. PROPERTY ADDRESS: 7224 HIGHWAY 21
PORT WENTWORTH, GEORGIA 31407

3. ZONING: P-C-3

4. TOTAL LAND ACREAGE = 2.36 ACRES
DISTURBED = 1.52 ACRES
WETLAND = 0.00 ACRES

5. TYPICAL BUILDING:
2 STORY
7,864 S.F. GROSS
7,067 S.F. LEASEABLE (90%)

6. PARKING CRITERIA
1 SPACE PER 175 S.F. OF LEASEABLE AREA
+ 4 SPACES / DRIVE THRU

7. PARKING CALCULATIONS
7,067 S.F. X (1 SPACE/175 S.F.)
+ 4 SPACES / DRIVE THRU = 60 SPACES
PARKING REQUIRED = 60 SPACES
56 STANDARD SPACES (10' X 20')
2 HANDICAPPED SPACES
(MINIMUM 1 VAN ACCESSIBLE SPACE, AS PER ADA REQUIREMENT)

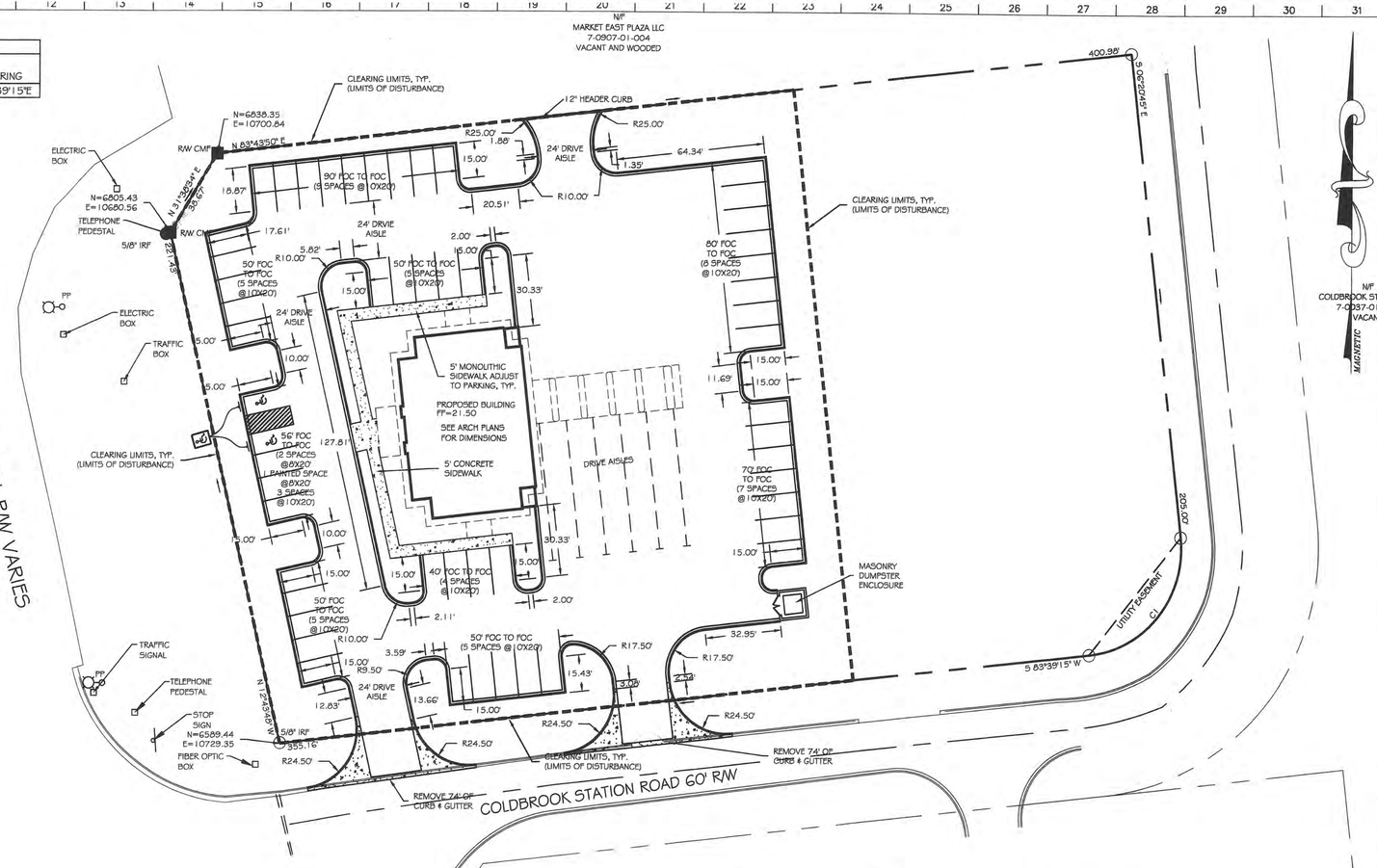
8. PARKING PROVIDED = 57 PERPENDICULAR SPACES + 4 SPACES IN EACH DRIVE AISLE = 77 SPACES
55 STANDARD SPACES (10' X 20')
2 HANDICAPED SPACES
(MINIMUM 1 VAN ACCESSIBLE SPACE, AS PER ADA REQUIREMENT)

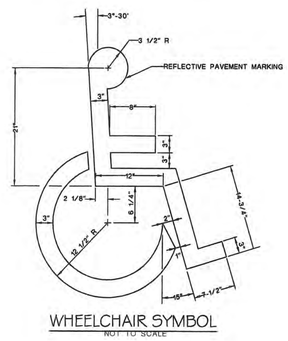
9. ALL EXTERIOR LIGHTING WILL BE DOWNLIT AND GLARE WILL BE DEFLECTED, SHAPED AND FOCUSED AWAY FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.

10. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE LABELED.

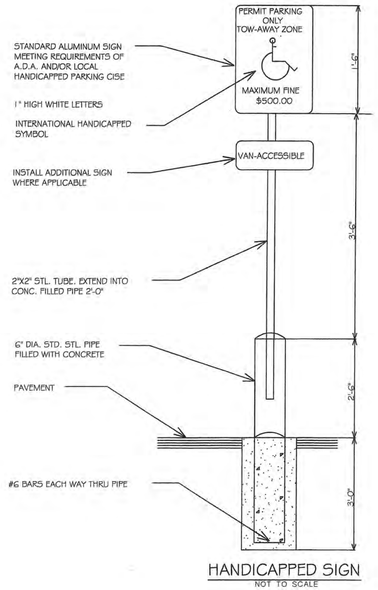
11. ALL RADIUS ARE 5' UNLESS OTHERWISE LABELED.

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	BEARING
C1	70.69	45.00	90°00'03"	45.00	63.64	N38°39'15"E

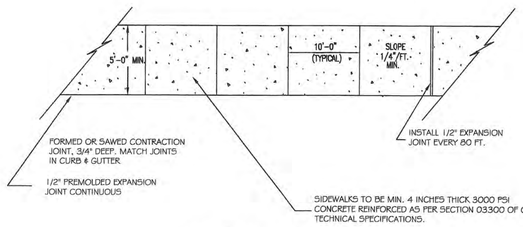




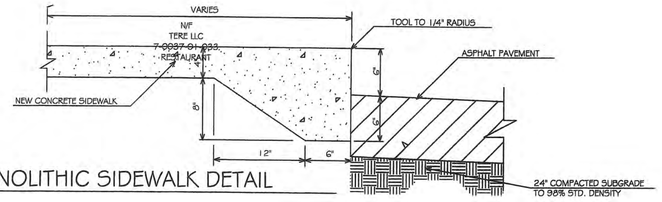
WHEELCHAIR SYMBOL
NOT TO SCALE



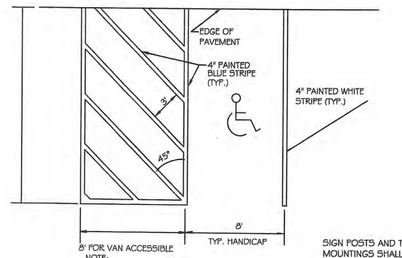
HANDICAPPED SIGN
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



MONOLITHIC SIDEWALK DETAIL



NOTE:
1. ALL HANDICAPPED STALLS SHALL BE PAINTED LIGHT BLUE.
2. LAYOUT AS PER FEDERAL REGISTER RULES AND REGULATIONS, JULY 26, 1991.

SIGN POSTS AND THEIR FOUNDATIONS AND SIGN MOUNTINGS SHALL BE SO CONSTRUCTED AS TO HOLD SIGNS IN A PROPER AND PERMANENT POSITION, TO RESIST SWAYING IN THE WIND OR DISPLACEMENT BY VANDALISM.

90° HANDICAPPED PARKING STALLS
NOT TO SCALE

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH

7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

STAKING, CLEARING AND TRAFFIC CONTROL PLAN

SEAL

ISSUE DATE 07/24/06

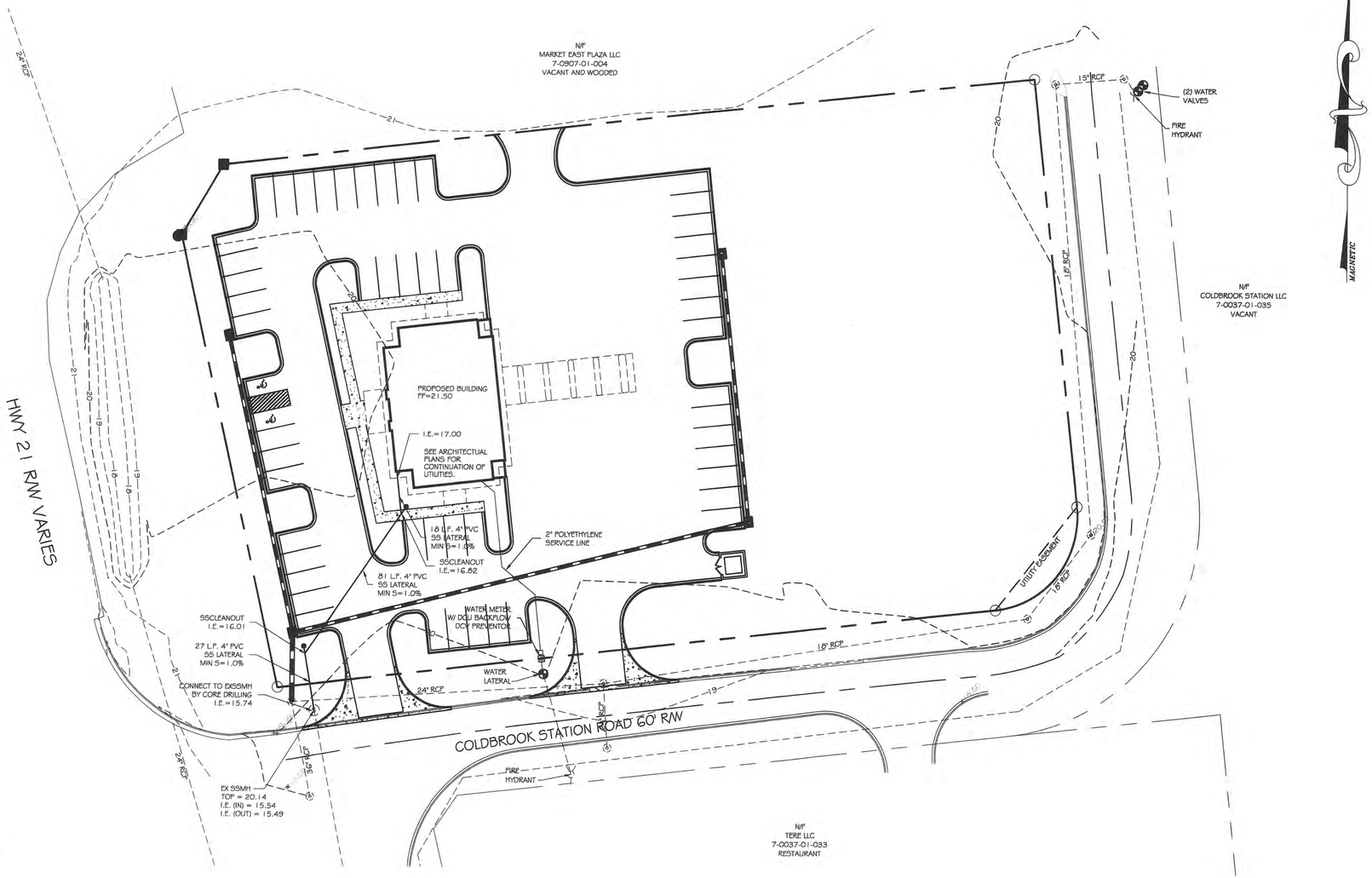
REVISIONS

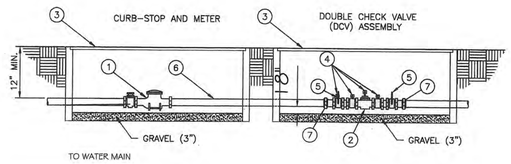
PROJECT NO. 06015

DRAWN BY JLH

SHEET NO. C-3

bmwarchitects.com 31 Park of Commerce Way Suite 400 Savannah, GA 31405 p. 912.447.5665 f. 912.447.5664





MATERIALS		
ITEM	QUAN.	DESCRIPTION
1	1	WATER METER
2	1	DOUBLE CHECK VALVE ASSEMBLY
3	2	METER BOX (JUMBO METER BOX FOR
–	–	3/4",1",1 1/4",1 1/2" & 2" BFD ONLY
4	4	TEST COCKS
5	2	FULL PORT BALL VALVES
6		SCH. 40-PVC, OR BRASS CUT TO LENGTH
7	2	UNION

INSTALLATION INSTRUCTIONS:

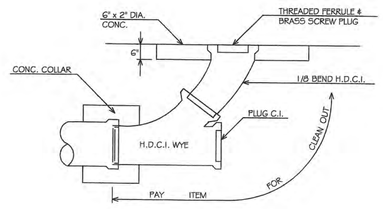
THE ASSEMBLY SHALL NOT BE BURIED IN EARTH, BUT MAY BE INSTALLED IN A UTILITY BOX ADJACENT TO OR AS CLOSE AS PRACTICAL TO, THE OUTLET SIDE OF THE METER. UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT.

NOTES:

1. NEW METER INSTALLATIONS 3/4", 1", 1 1/4" & 1 1/2" TO BE INSTALLED BY CITY OF SAVANNAH'S WATER DISTRIBUTION DEPARTMENT
2. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE. INSTALLER MUST PROVIDE FOR THERMAL EXPANSION WITHIN THE PROJECT
3. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTION DEVICE; UNDER NO CIRCUMSTANCE, SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.

TYPICAL OUTSIDE INSTALLATION
(3/4", 1", 1 1/4" & 1 1/2" SIZES)

DOUBLE CHECK VALVE & METER ASSEMBLY FOR DOMESTIC SERVICE FOR COMMERCIAL SITES



SANITARY SEWER CLEANOUT

SEE SHEET 1 FOR WATER AND SEWER NOTES

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH

7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

UTILITY PLAN

SEAL

ISSUE DATE 07/24/06
REVISIONS
PROJECT NO. 06015
DRAWN BY JLH
SHEET NO. C-4

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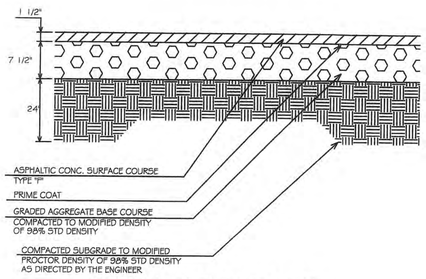
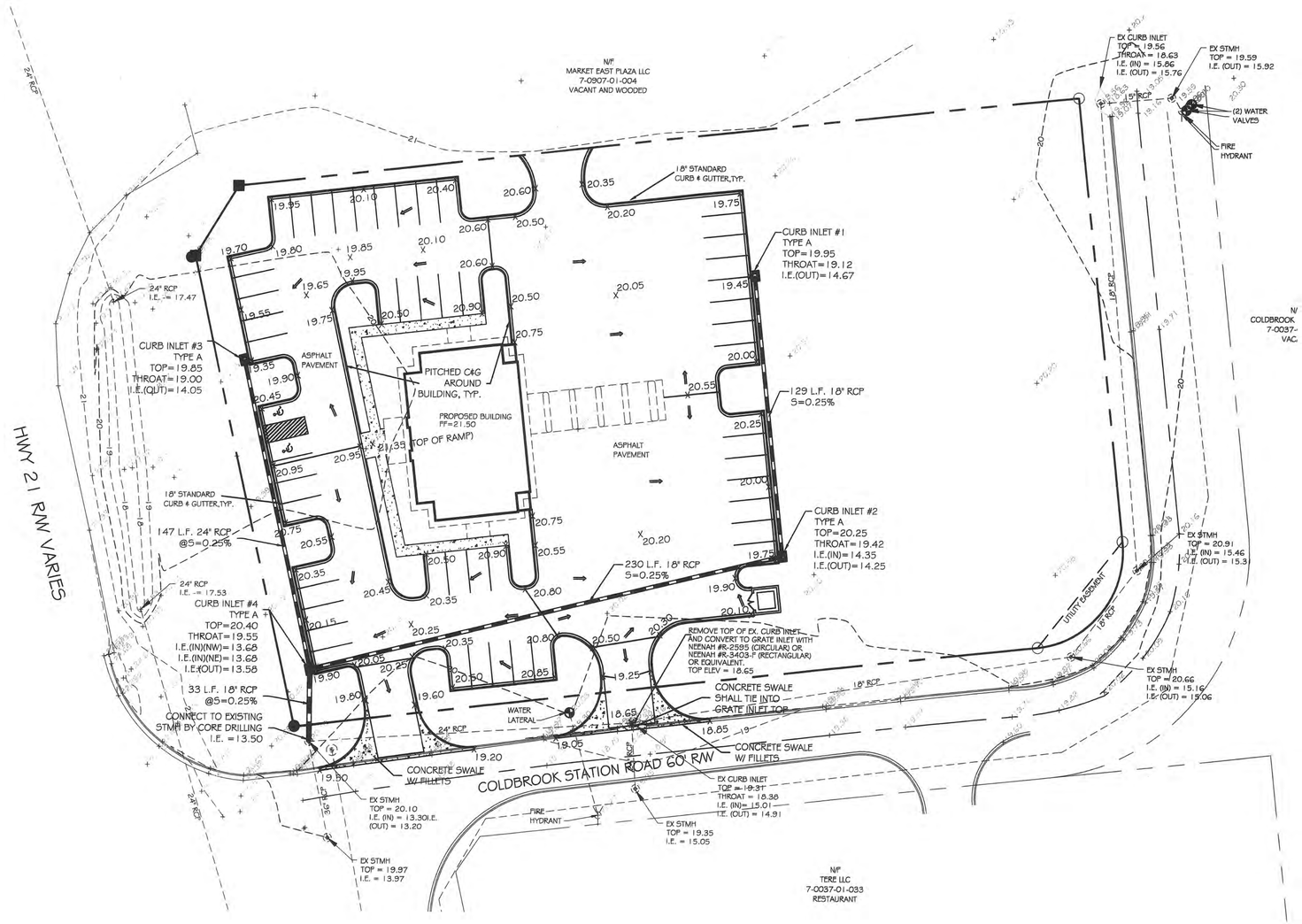
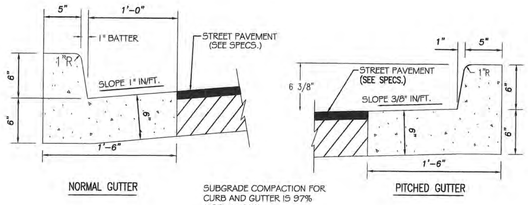
NOTES:

1. ALL WORK DONE SHALL BE IN ACCORDANCE TO THE CITY OF PT. WENTWORTH'S SPECIFICATIONS.
2. THE CITY OF PT. WENTWORTH AND CHATHAM COUNTY RESERVE THE RIGHT TO ACCESS THE PROPERTY FOR ON SITE INSPECTIONS.
3. HIGHLY CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM. IT SHALL BE DISCHARGED INTO THE SANITARY SEWER SYSTEM AS PER THE ENGINEER DIRECTION AND THE CITY'S/COUNTY'S INSPECTION DEPARTMENT OBSERVATION.
4. THE PARKING LOT AND DRAINAGE STRUCTURES SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF PT. WENTWORTH.
5. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT OR GUTTER LINE UNLESS LABELED OTHERWISE.
6. ALL ELEVATIONS ARE BASED ON NAVD 88.

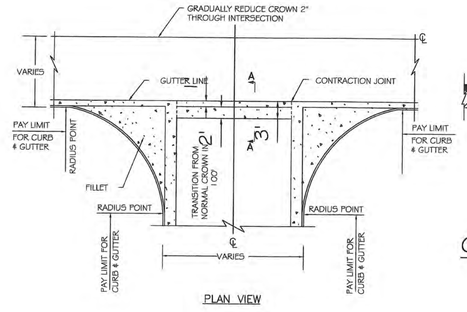


ASPHALT PAVEMENT

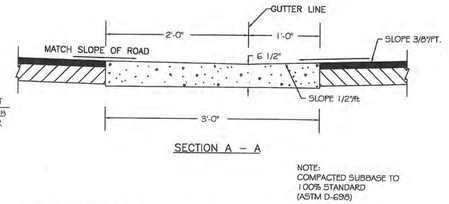




CURB & GUTTER



PLAN VIEW



SECTION A – A

NOTE:
COMPACTED SUBBASE TO 100% STANDARD (ASTM D-698)

CONCRETE SWALE WITH FILLETS

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

PAVING, GRADING AND DRAINAGE PLAN

SEAL

REGISTERED PROFESSIONAL ENGINEER CHAD W. LIMBAUGH GEORGIA

ISSUE DATE 07/24/06

REVISIONS

PROJECT NO. 06015

DRAWN BY JLH

SHEET NO. C-5

bmwarchitects.com
vannah, GA 31405
31 Park of Commerce Way Suite 400 S
p. 912.447.5665 f. 912.447.56644

NOTES:

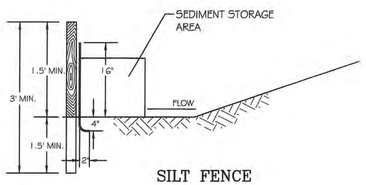
1. THERE ARE NO STATE WATERS WITHIN 200' OF THIS SITE.
2. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
3. PLAN DESIGNER HAS VISITED THE SITE PRIOR TO THE DESIGN OF THE EROSION AND SEDIMENT CONTROL PLAN.
4. THIS LOT IS PART OF A DEVELOPMENT THAT HAS COMMON DETENTION AREAS. THE RECEIVING WATERS FOR THIS DEVELOPMENT IS BLACK CREEK.

EROSION & SEDIMENT CONTROL PHASING SCHEDULE			
CONTROL MEASURES	PHASE 1	PHASE 2	PHASE 3
CONSTRUCTION EXIT (Ce)	X	X	
SEDIMENT BARRIER (Sdl-A)	X	X	X
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2		X	
DUST CONTROL (Du)		X	
INLET PROTECTION (Sd-2)		X	X
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) Ds3			X

PHASE 1 - PERIMETER CONTROL - TO BE INSTALLED PRIOR TO ANY LAND DISTURBANCE
PHASE 2 - GRADING AND DRAINAGE CONTROL MEASURES
PHASE 3 - FINAL CONTROL MEASURES - TO BE INSTALLED AT COMPLETION OF LAND DISTURBANCE AND SHALL REMAIN IN PLACE AFTER CONSTRUCTION

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

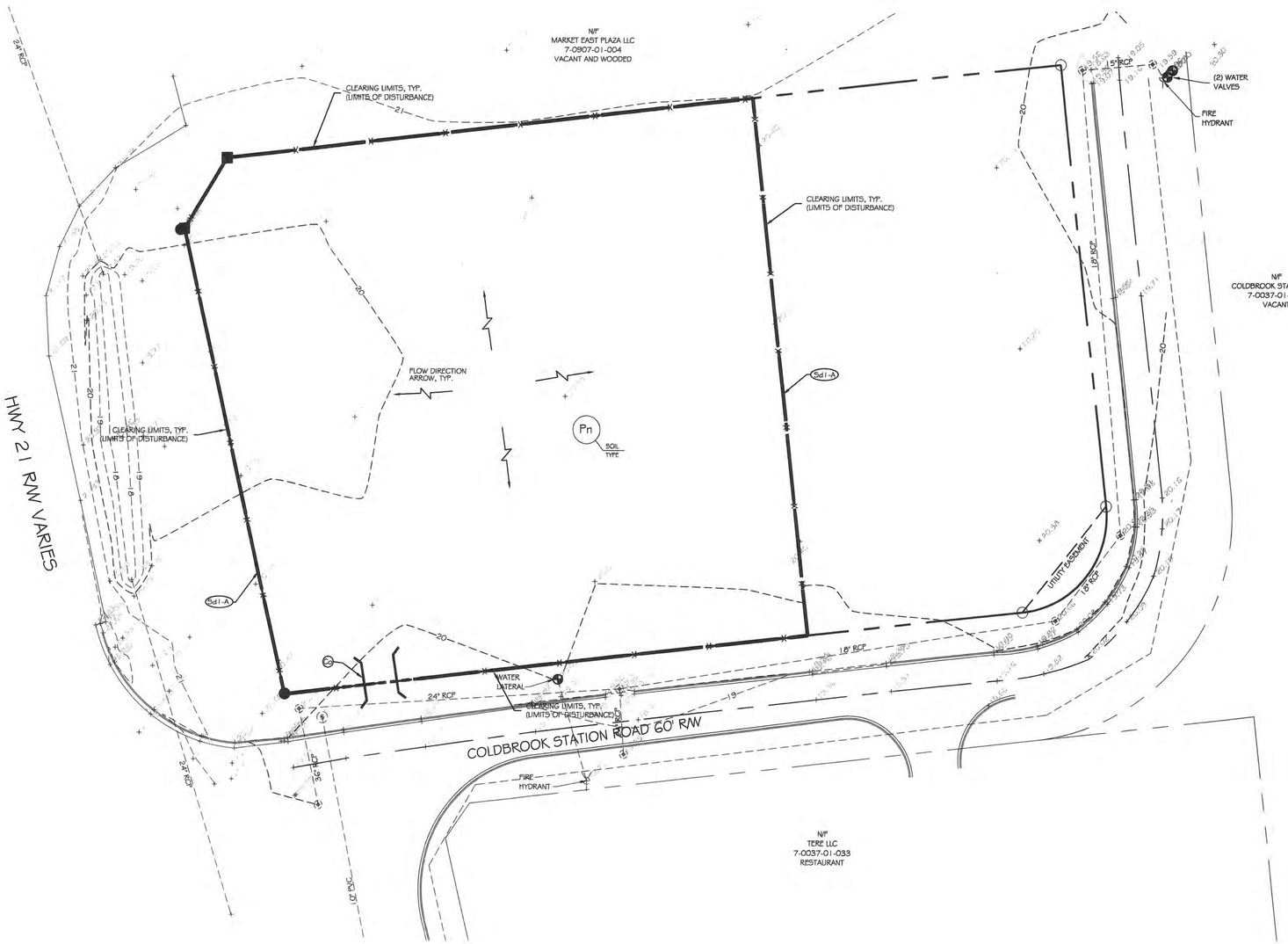


SILT FENCE

THE SILT FENCING SHALL BE UTILIZED TO TEMPORARILY STORE SEDIMENT FROM THIS SITE. EVERY 100' OF FENCING SHALL HAVE A MAXIMUM OF 1/4 ACRE DRAINING TO IT. SINCE THERE IS APPROX. 1,015 LF OF SILT FENCE ON THIS SITE, THE STORAGE CAN BE ACHIEVED BY ALLOWING SEDIMENT TO ACCUMULATE TO A MAXIMUM DEPTH OF 0.50' (1/3 THE HEIGHT OF THE SILT FENCE) AND A MAXIMUM OF 8' AWAY FROM THE SILT FENCE.

1.52 ACRES X 67 CY/ACRE = 102 CY REQUIRED STORAGE
102 CY X 27 CF/CY = 2,754 CF REQUIRED STORAGE
1,015' X 0.50' X 8' = 4,060 CF PROVIDED STORAGE
4,060 CF > 2,754 CF THEREFORE THERE IS ADEQUATE STORAGE PROVIDED

THE REASON THAT WE ARE USING SILT FENCE AS SEDIMENT STORAGE IS SIMPLY LACK OF AREA. SIGNIFICANT GRADING WILL BE TAKING PLACE ON THIS SITE UP TO THE PROPERTY LINES. WE WILL NEED ALL THE ROOM THAT WE CAN GET FOR ACCESS AND MANEUVERABILITY OF THE GRADING MACHINES. CALCULATIONS HAVE BEEN PERFORMED TO MAKE SURE THAT THE SILT FENCE WILL PROVIDE THE NECCESSARY STORAGE AND THAT EVERY 100' OF FENCING WILL HAVE LESS THAN 1/4 ACRE DRAINING TO IT.



LEGEND:

-----20----- EXISTING CONTOUR

——20—— PROPOSED CONTOUR

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SEE SHEET 2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION AND SEDIMENT CONTROL PLAN (PH 1)

SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHAD W. LANIER

ISSUE DATE 07/24/06
REVISIONS
PROJECT NO. 06015
DRAWN BY JLH
SHEET NO. C-6

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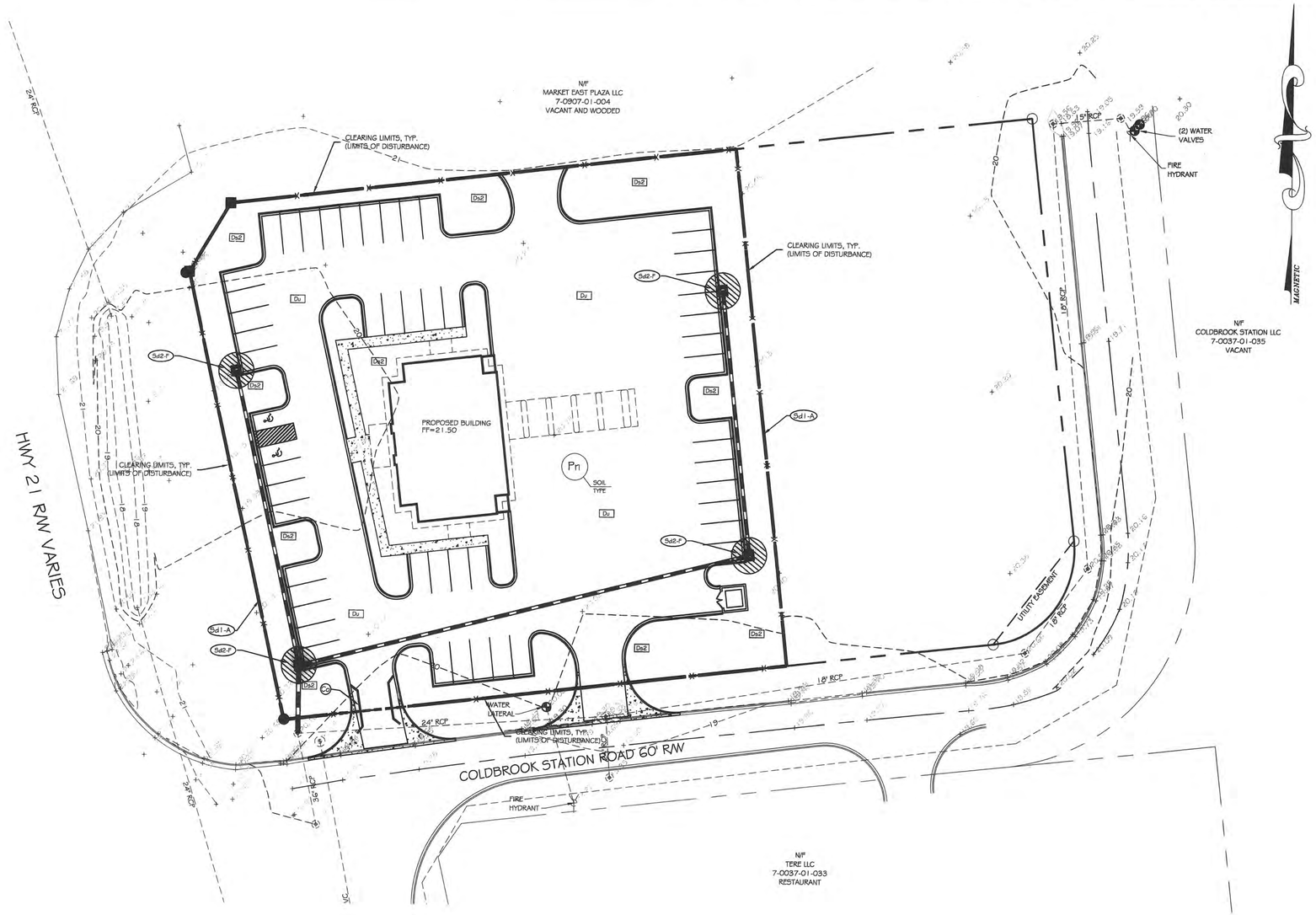
NOTES:

1. THERE ARE NO STATE WATERS WITHIN 200' OF THIS SITE.
2. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
3. PLAN DESIGNER HAS VISITED THE SITE PRIOR TO THE DESIGN OF THE EROSION AND SEDIMENT CONTROL PLAN.
4. THIS LOT IS PART OF A DEVELOPMENT THAT HAS COMMON DETENTION AREAS. THE RECEIVING WATERS FOR THIS DEVELOPMENT IS BLACK CREEK.

EROSION & SEDIMENT CONTROL PHASING SCHEDULE			
CONTROL MEASURES	PHASE 1	PHASE 2	PHASE 3
CONSTRUCTION EXIT (Co)	X	X	
SEDIMENT BARRIER (Sd1-A)	X	X	X
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2		X	
DUST CONTROL (Du)		X	
INLET PROTECTION (Sd-2)		X	X
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) Ds3			X

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



LEGEND:

20 EXISTING CONTOUR

20 PROPOSED CONTOUR

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SEE SHEET 2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION AND SEDIMENT CONTROL PLAN (PH II)

SEAL

ISSUE DATE 07/24/06
REVISIONS
PROJECT NO. 06015
DRAWN BY JLH
SHEET NO.

C-7

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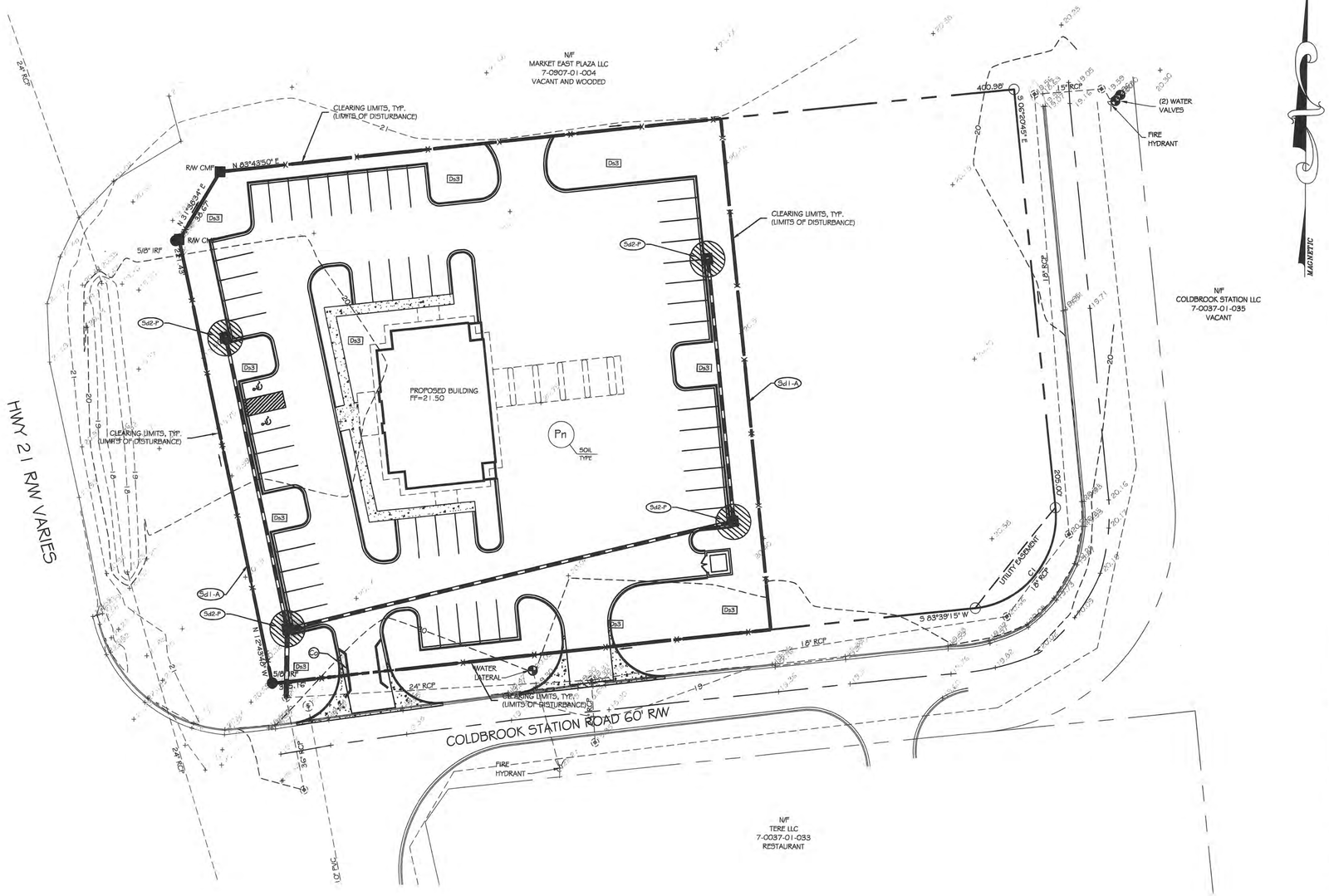
NOTES:

1. THERE ARE NO STATE WATERS WITHIN 200' OF THIS SITE.
2. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
3. PLAN DESIGNER HAS VISITED THE SITE PRIOR TO THE DESIGN OF THE EROSION AND SEDIMENT CONTROL PLAN.
4. THIS LOT IS PART OF A DEVELOPMENT THAT HAS COMMON DETENTION AREAS. THE RECEIVING WATERS FOR THIS DEVELOPMENT IS BLACK CREEK.

EROSION & SEDIMENT CONTROL PHASING SCHEDULE			
CONTROL MEASURES	PHASE 1	PHASE 2	PHASE 3
CONSTRUCTION EXIT (Ce)	X	X	
SEDIMENT BARRIER (Sd1-A)	X	X	X
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2		X	
DUST CONTROL (Du)		X	
INLET PROTECTION (Sd-2)		X	X
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) Ds3			X

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



LEGEND:

------20-------- EXISTING CONTOUR

——20—— PROPOSED CONTOUR

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SEE SHEET 2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

BMW ARCHITECTS
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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION AND SEDIMENT CONTROL PLAN (PH III)

SEAL

ISSUE DATE 07/24/06

REVISIONS

PROJECT NO. 06015

DRAWN BY JLH

SHEET NO. C-8

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DOOR SCHEDULE

DOOR					FRAME				REMARKS
MARK	LOCATION	MATERIAL	TYPE	LABEL	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	
102	OFFICE 1	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
103	OFFICE 2	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
104A	FOYER	CW	6	-	WD	Q13/A0.2	A7/A0.2	K7/A0.2	
104B	FOYER	CW	6	-	WD	U19/A0.2	Q19/A0.2	-	W/O ELIPTICAL TRANSOM
105	OFFICE 3	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
106	OFFICE 4	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
107A	STAIR 02	CW	5	-	WD	Q7/A0.2	E7/A0.2	K7/A0.2	
107B	STAIR 02	SCW	2	-	HMKD	U23/A0.2	Q23/A0.2	-	SEE F18/A0.1 FOR FRAME TYPE W/ SIDELITES
107C	STAIR 02	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
108	BREAK ROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
109	CLOSET	SCW	3	-	WD	U19/A0.2	Q19/A0.2	-	
110	CLOSET	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
111	CORRIDOR	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
112	MENS RESTROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
113	WOMENS RESTROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
114	ELEC./DATA ROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
115A	TELLER STATIONS	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
115B	TELLER STATIONS	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
116	DRIVE-UP BANKING	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
117	CLOSET	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
118	CLOSET	SCW	3	-	WD	U19/A0.2	Q19/A0.2	-	
119	VAULT	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
120	ELEVATOR MECHANICAL	HM	4	-	HMKD	U23/A0.2	Q23/A0.2	-	FRAME TO BE SAME PROFILE A TYP. WOOD
121A	STAIR 01	CW	5	-	WD	Q7/A0.2	E7/A0.2	K7/A0.2	
121B	STAIR 01	SCW	2	-	HMKD	U23/A0.2	Q23/A0.2	-	SEE F18/A0.1 FOR FRAME TYPE W/ SIDELITES
121C	STAIR 01	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
201	STAIR 02	SCW	1	-	HMKD	U23/A0.2	Q23/A0.2	-	FRAME TO BE SAME PROFILE A TYP. WOOD
202	STAIR 01	SCW	1	-	HMKD	U23/A0.2	Q23/A0.2	-	FRAME TO BE SAME PROFILE A TYP. WOOD
203	MECHANICAL ROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
204	MENS RESTROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	
205	WOMENS RESTROOM	SCW	1	-	WD	U19/A0.2	Q19/A0.2	-	

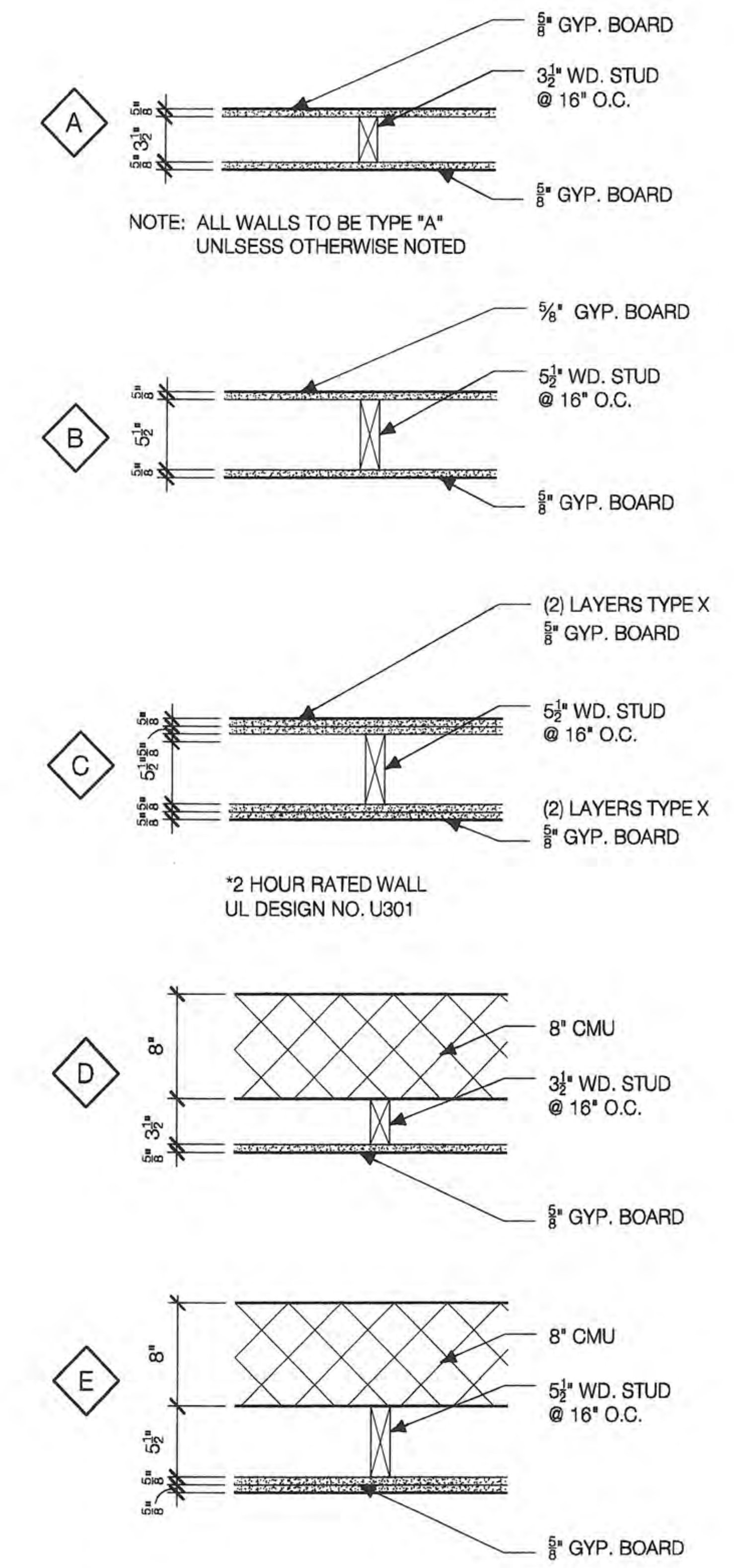
LEGEND

ALUM	ALUMINUM
HM	HOLLOW METAL
HMKD	HOLLOW METAL KNOCK DOWN
HMW	HOLLOW METAL WELDED
SCW	SOLID CORE WOOD
SM	SMOKE RATED
CW	CLAD WOOD

NOTES

1. ALL DOORS SHALL BE 3'-0"x7'-0"x1¾" U.N.O.
2. ALL WOOD DOORS AND FRAMES TO BE PAINT GRADE BIRCH
3. LEVER HARDWARE SHALL BE KARCHER DESIGN ATLANTIS-ER36, PRIVACY SETS, EXCEPT AT CLOSETS, AND STORAGE ROOMS. CONTRACTOR TO COORDINATE HARDWARE SCHEDULE WITH ARCHITECT.

L1 SCALE: N.T.S. DOOR SCHEDULE



L12 SCALE: 1" = 1'-0" WALL TYPES

DIEBOLD®

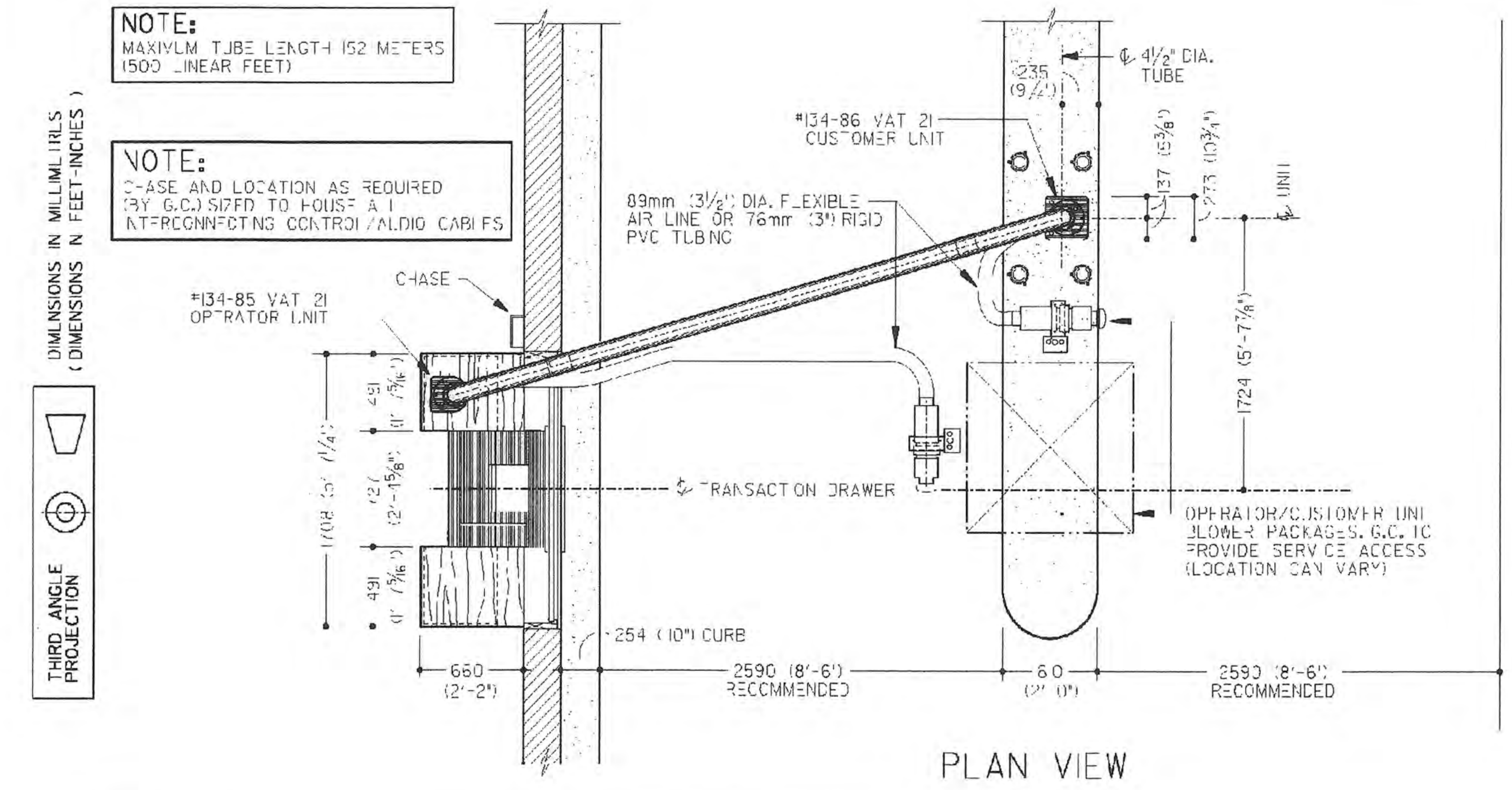
L0641753

CALL 1-800-999-3600

VACUUM AIR TUBE 21
TYPICAL DRIVE-UP INSTALLATION USING
TRANSACTION DRAWER AND (1) VAT 21 SYSTEM

NOTE:
MAXIMUM TUBE LENGTH 152 METERS (500 LINEAR FEET)

NOTE:
CHASE AND LOCATION AS REQUIRED (BY G.C.) SIZED TO HOUSE ALL INTERCONNECTING CONTROL/AUDIO CABLES



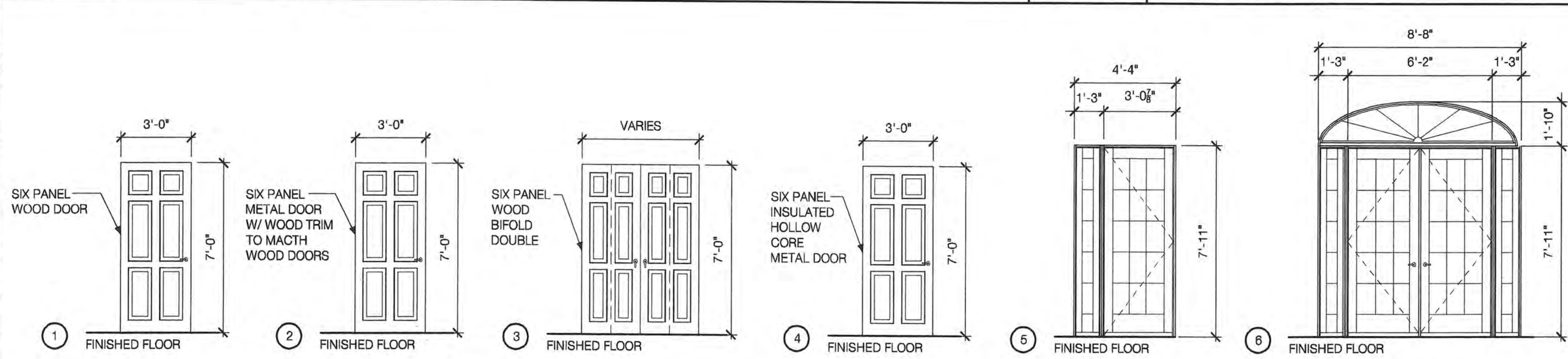
PLAN VIEW

NOTES:
1. ALL WORK AND MATERIALS SHALL CONFORM TO THE NATIONAL, ALL STATE, AND LOCAL ELECTRICAL CODES WHICH MAY BE APPLICABLE. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLY WITH THESE CODES.
2. ALL CONDUIT, POWER WIRES, JUNCTION BOXES, AND OVERLOAD PROTECTION DEVICES, ARE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

"THIS HAS BEEN PROVIDED FOR INFORMATION ONLY"

CONTRACTOR TO COORDINATE TUBE PATH WITH DIEBOLD

K18 SCALE: 1/8" = 1'-0" DRIVE-THRU SPECIFICATIONS

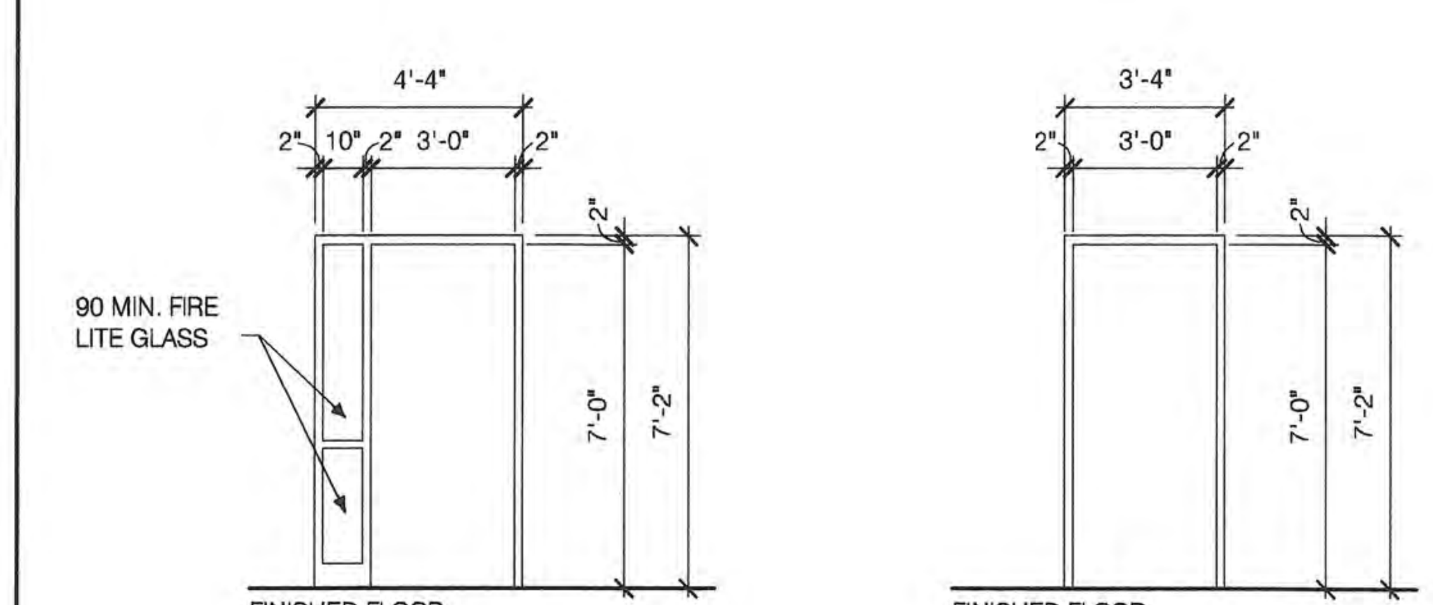


DOOR 121B, 107B, 201 AND 202
90 MIN. RATED

ANDERSEN # FWO 3160AR
400 SERIES FRENCHWOOD
OUTSWING PATIO DOOR (15 LITE)
W/ FWSL 1380 SIDELIGHT

ANDERSEN ARCHITECTURAL
COMMERCIAL ENTRY DOORS
7'-11" X 6'-2" STANDARD SIZE,
1'-3" X 7'-11" SIDELITES EA. SIDE
AND CUSTOM ELIPTICAL TRANSOM
ABOVE

F1 SCALE: 1/4" = 1'-0" DOOR TYPES

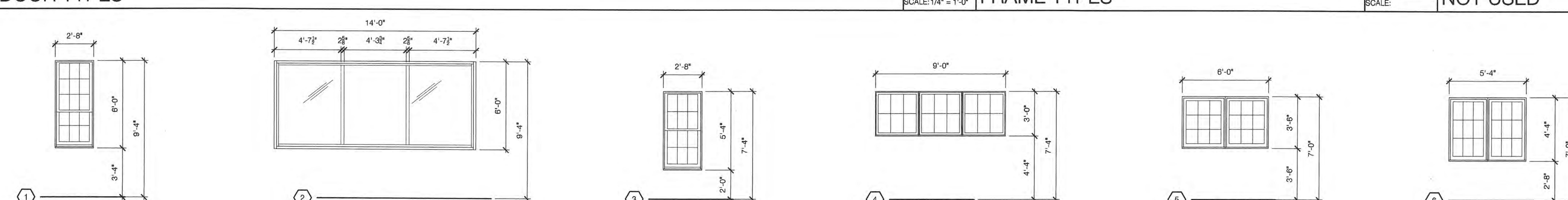


90 MIN RATED FRAME

WOOD FRAME TYP.

F18 SCALE: 1/4" = 1'-0" FRAME TYPES

F26 SCALE: NOT USED



1. VINYL CLAD DOUBLE HUNG WINDOW
COTTAGE SASH
2'-8" x 6'-0" (3W/5H)
ANDERSEN # WDH26510
DP RATED PER LOCAL MINIMUM REQUIREMENT

2. ARMORTEX -BULLET RESISTANT CLAMP-ON
ALUMINUM FIXED WINDOW
14'-0" x 6'-0"
DP RATED PER LOCAL MINIMUM REQUIREMENT

3. VINYL CLAD DOUBLE HUNG WINDOW
2'-8" x 5'-4" (3W/4H)
ANDERSEN # WDH2652
DP RATED PER LOCAL MINIMUM REQUIREMENT

4. FIXED CASEMENT WINDOW
9'-0" x 3'-0" (9W/2H)
ANDERSEN # AXW31-3
DP RATED PER LOCAL MINIMUM REQUIREMENT

5. FIXED WOOD DOUBLE PICTURE WINDOW
PAINT GRADE
¼" CLEAR TEMPERED GLAZING
6'-0" x 6'-0" (6W/4H)

6. FIXED WOOD DOUBLE PICTURE WINDOW
PAINT GRADE
¼" CLEAR TEMPERED GLAZING
5'-4" x 5'-4" (6W/4H)

A1 SCALE: 1/4" = 1'-0" WINDOW SCHEDULE

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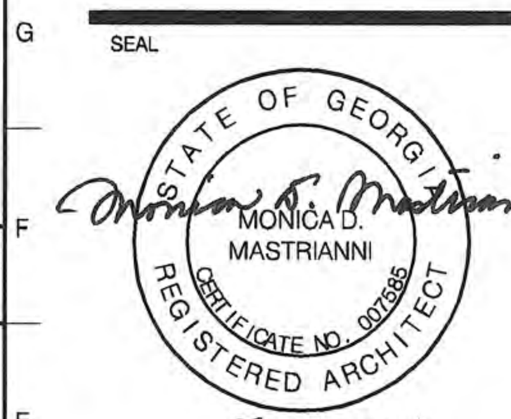
DOOR AND WINDOW SCHEDULES

SEAL



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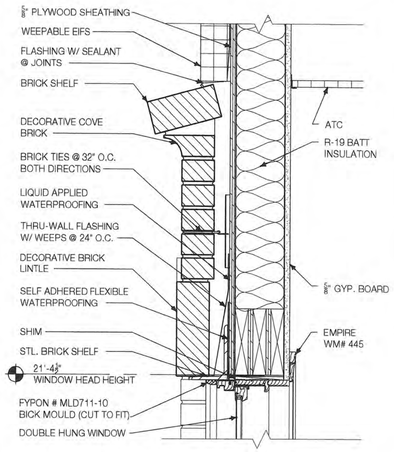
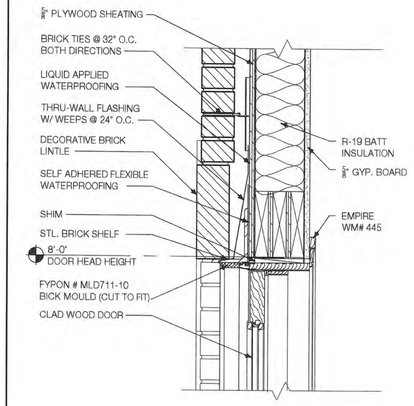
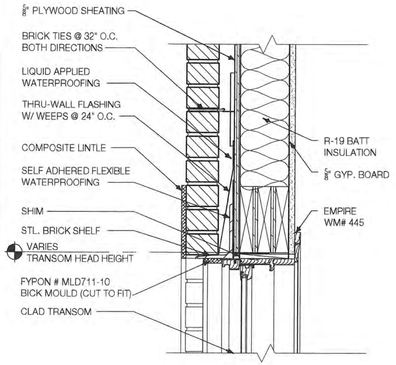


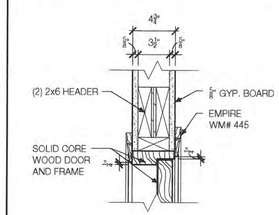
Q1 SCALE:1 1/2" = 1'-0" **WINDOW HEAD**



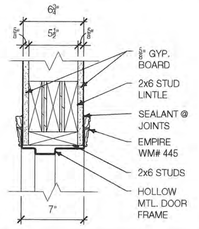
Q7 SCALE:1 1/2" = 1'-0" **DOOR HEAD**



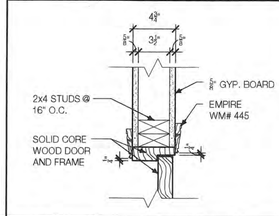
Q13 SCALE:1 1/2" = 1'-0" **TRANSOM HEAD**



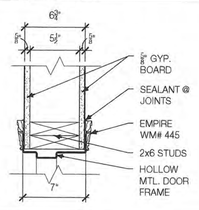
U19 SCALE:1 1/2" = 1'-0" **DOOR HEAD**



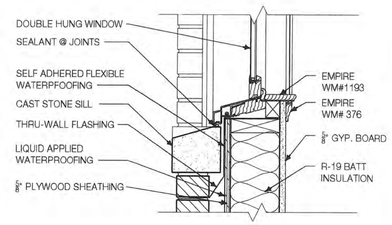
U23 SCALE:1 1/2" = 1'-0" **DOOR HEAD**



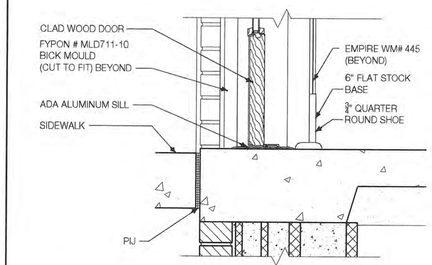
Q19 SCALE:1 1/2" = 1'-0" **DOOR JAMB**



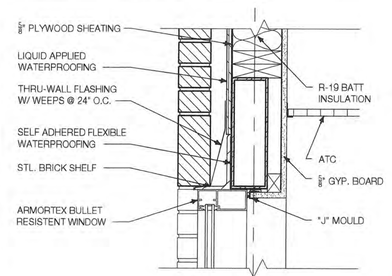
Q23 SCALE:1 1/2" = 1'-0" **DOOR JAMB**



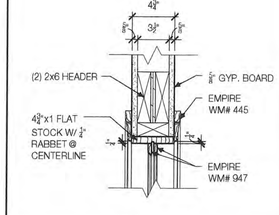
Q1 SCALE:1 1/2" = 1'-0" **WINDOW HEAD**



Q7 SCALE:1 1/2" = 1'-0" **DOOR HEAD**

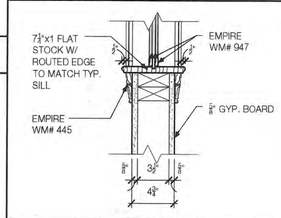


Q13 SCALE:1 1/2" = 1'-0" **TRANSOM HEAD**



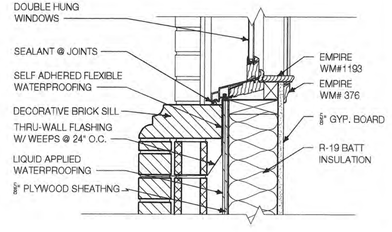
L19 SCALE:1 1/2" = 1'-0" **WINDOW HEAD**

L23 SCALE:1 1/2" = 1'-0" **NOT USED**

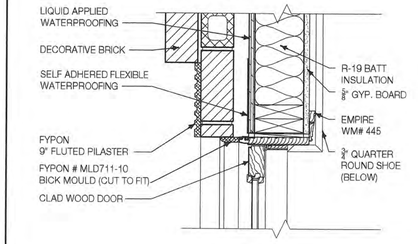


H19 SCALE:1 1/2" = 1'-0" **WINDOW JAMB**

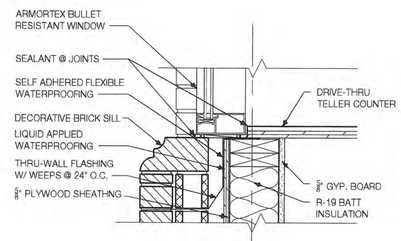
H23 SCALE:1 1/2" = 1'-0" **NOT USED**



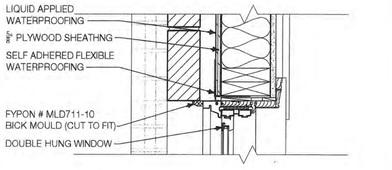
E1 SCALE:1 1/2" = 1'-0" **WINDOW SILL**



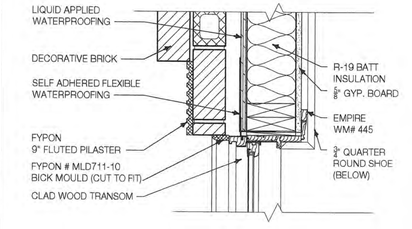
E7 SCALE:1 1/2" = 1'-0" **DOOR JAMB**



E13 SCALE:1 1/2" = 1'-0" **ARMORTEX SILL**



A1 SCALE:1 1/2" = 1'-0" **WINDOW JAMB**



A7 SCALE:1 1/2" = 1'-0" **TRANSOM JAMB**

A13 SCALE:1 1/2" = 1'-0" **NOT USED**

A19 SCALE:1 1/2" = 1'-0" **NOT USED**

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WINDOW & DOOR DETAILS

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
CERTIFICATE NO. 017555
REGISTERED ARCHITECT
7.19.2006

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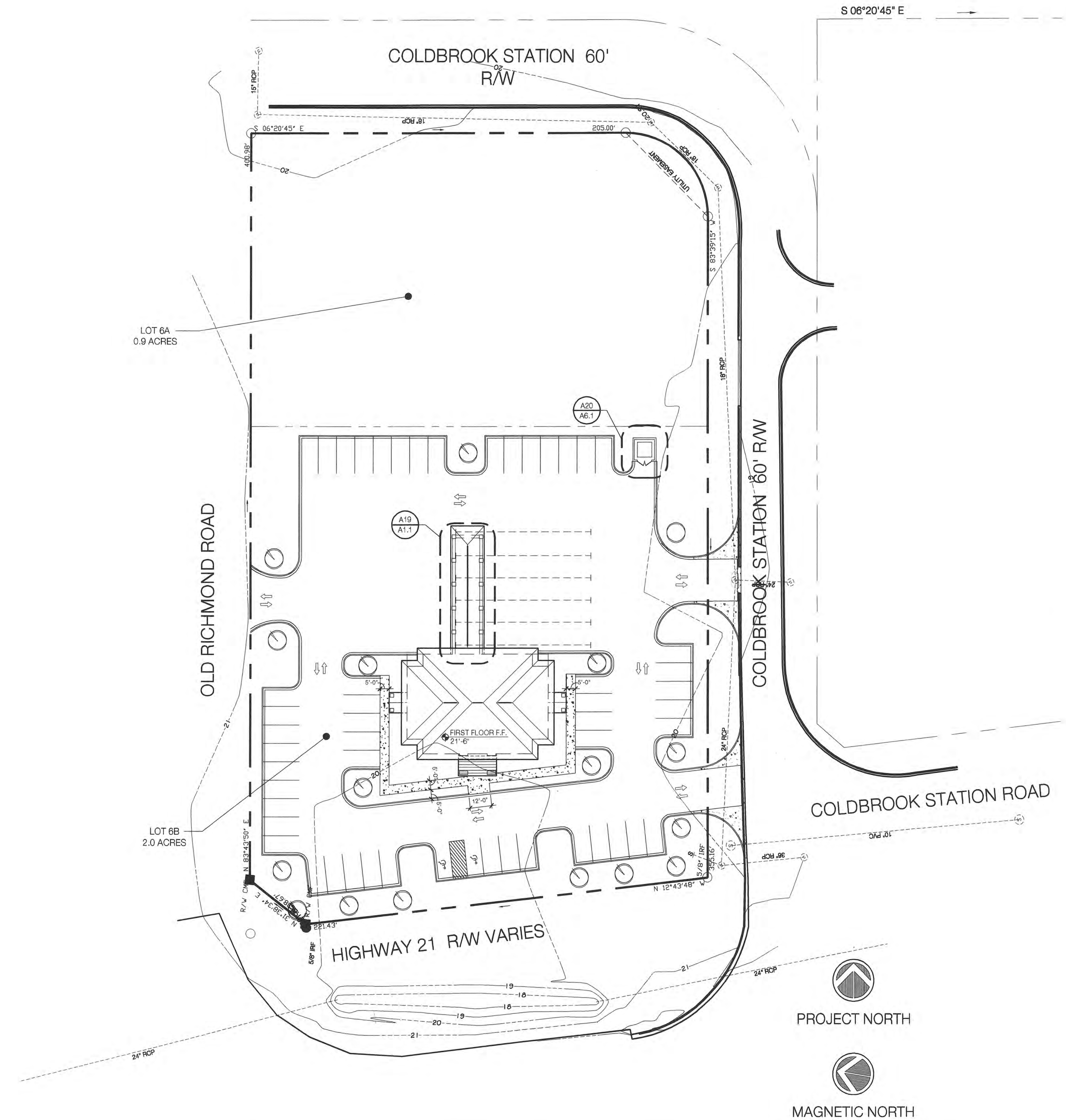

ARCHITECTURAL SITE PLAN

A1
SCALE: 1" = 30'-0"

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ARCHITECTURAL SITE PLAN

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
REGISTERED ARCHITECT
7-24-2006

ISSUE DATE: 07-24-2006
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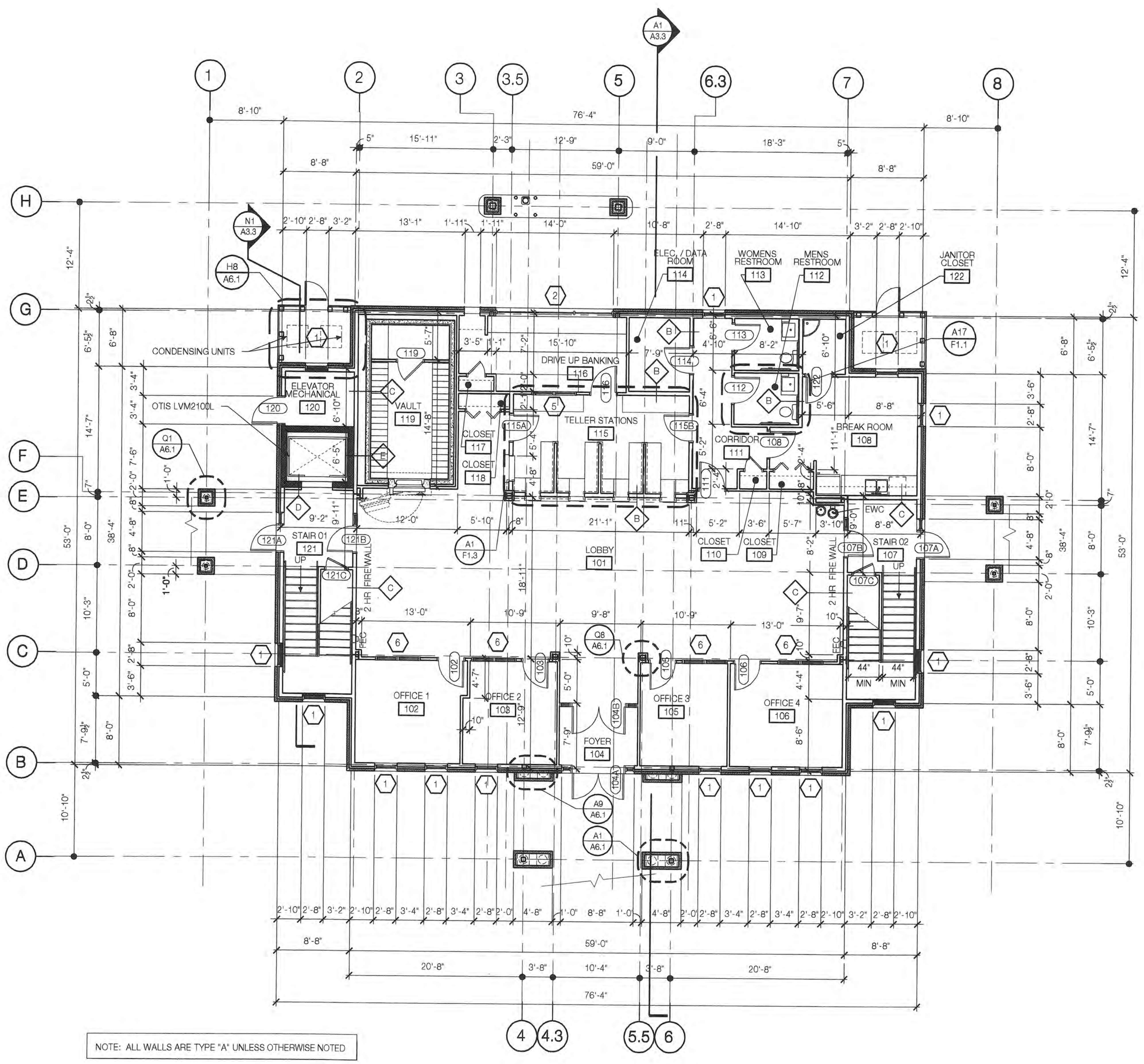
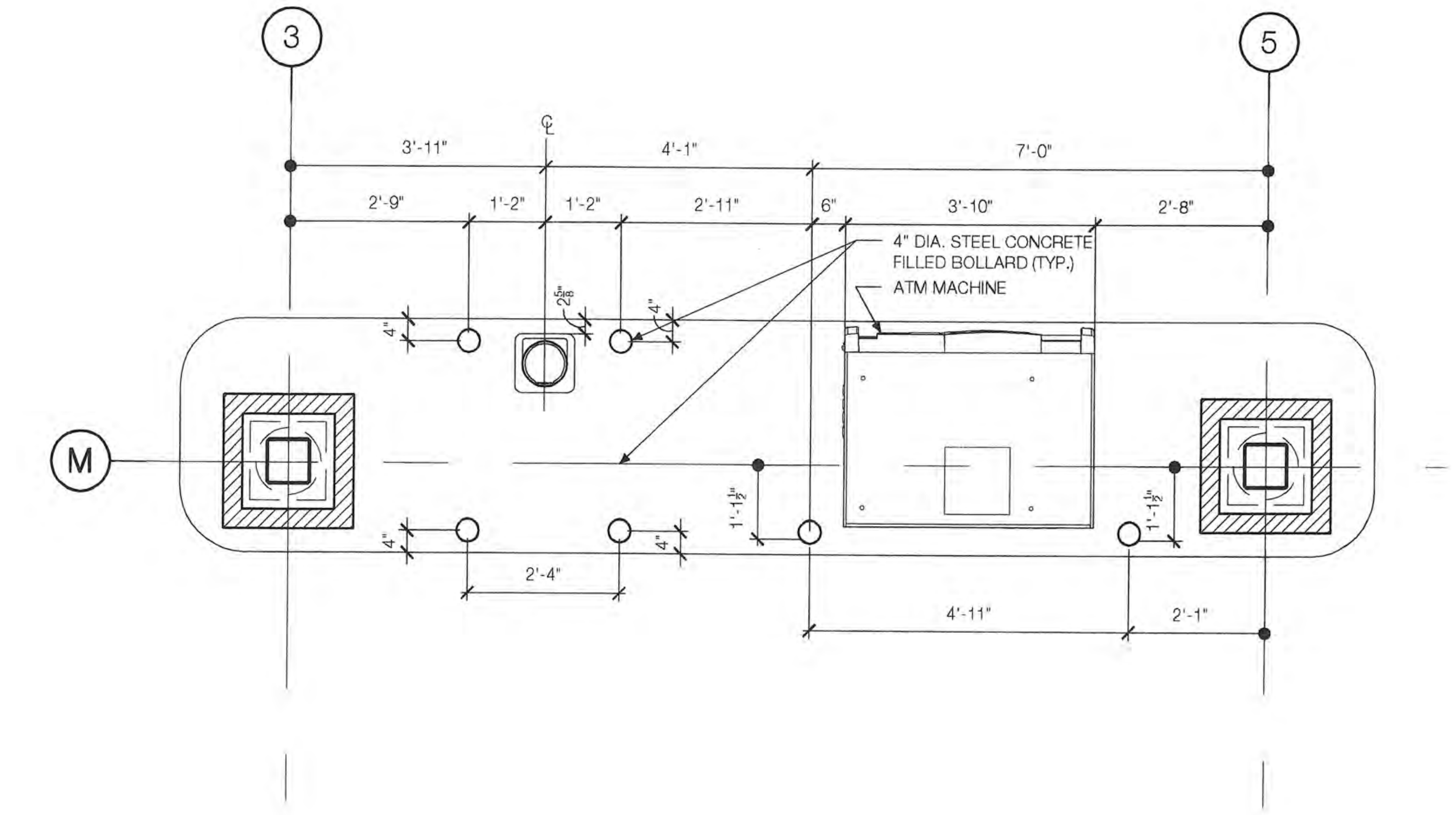
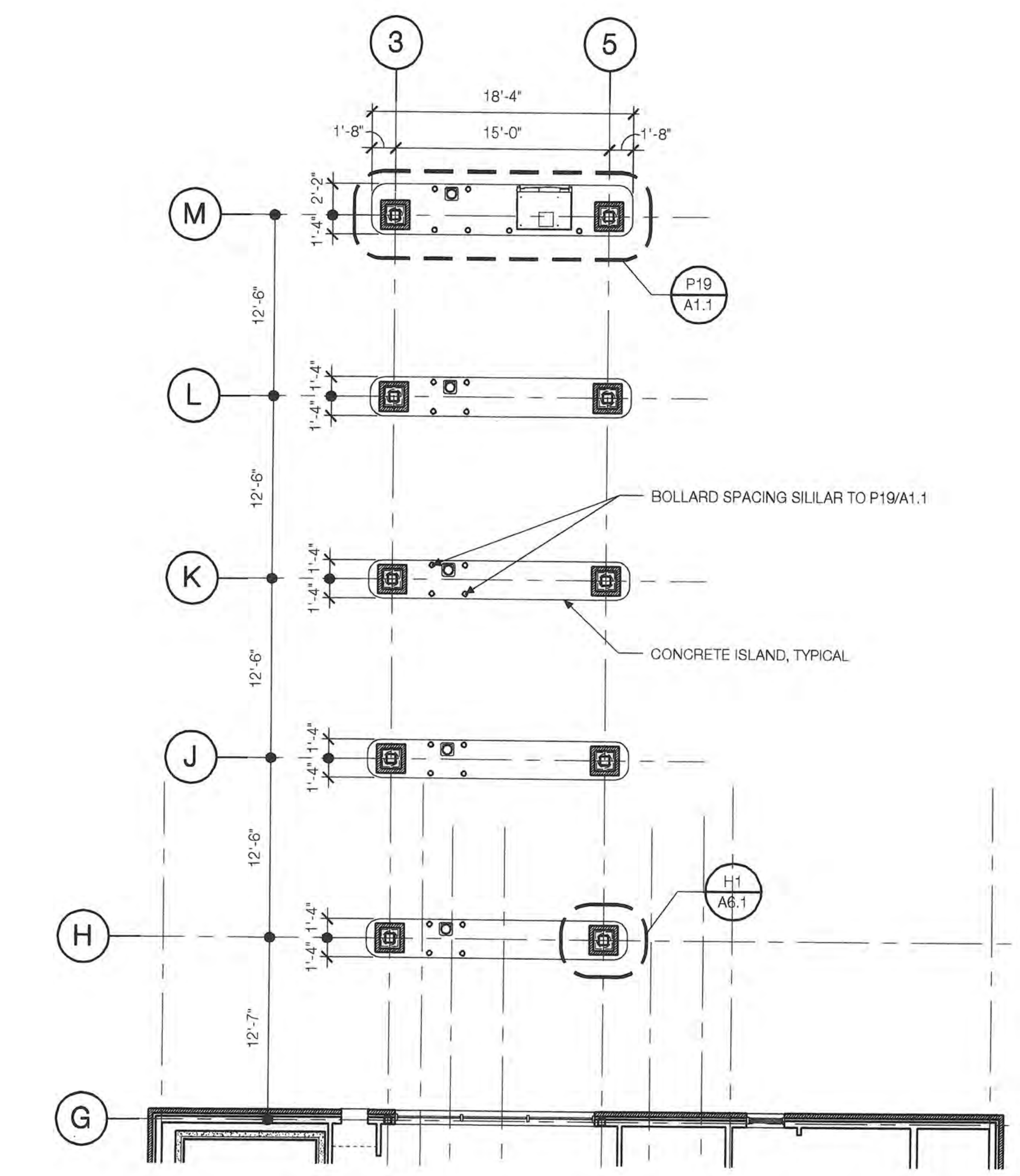


A1 SCALE: 1/X" = 1'-0" FIRST FLOOR PLAN



P19 SCALE: 1/2" = 1'-0" ATM/ DRIVE-THRU BANKING ISLAND



A19 SCALE: 1/8" = 1'-0" DRIVE THRU LAYOUT

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FIRST FLOOR PLAN

SEAL

STATE OF GEORGIA
MONICA D. MASTRIANNI
REGISTERED ARCHITECT

ISSUE DATE 07-24-2006

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PROJECT NO. 05.098

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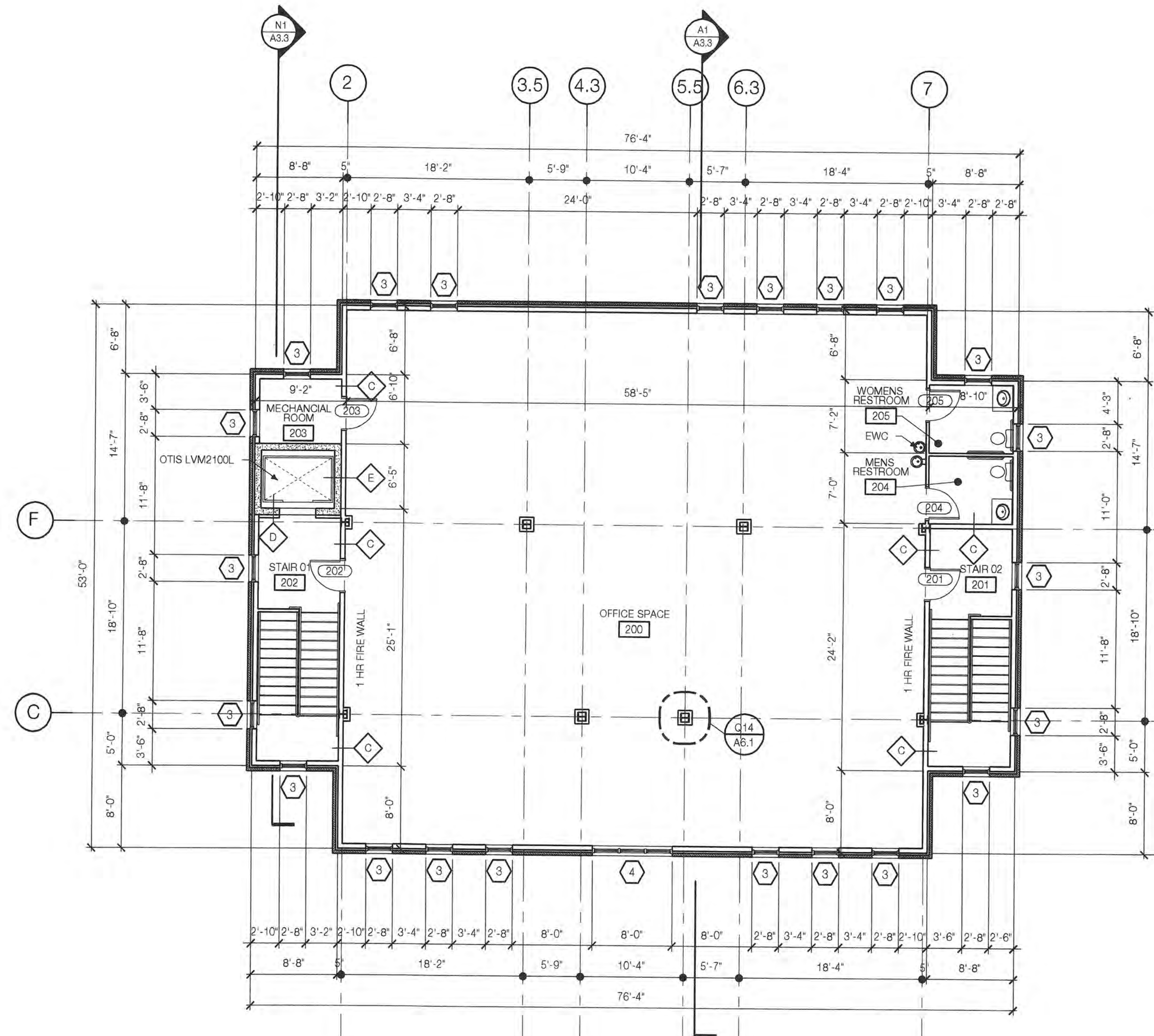
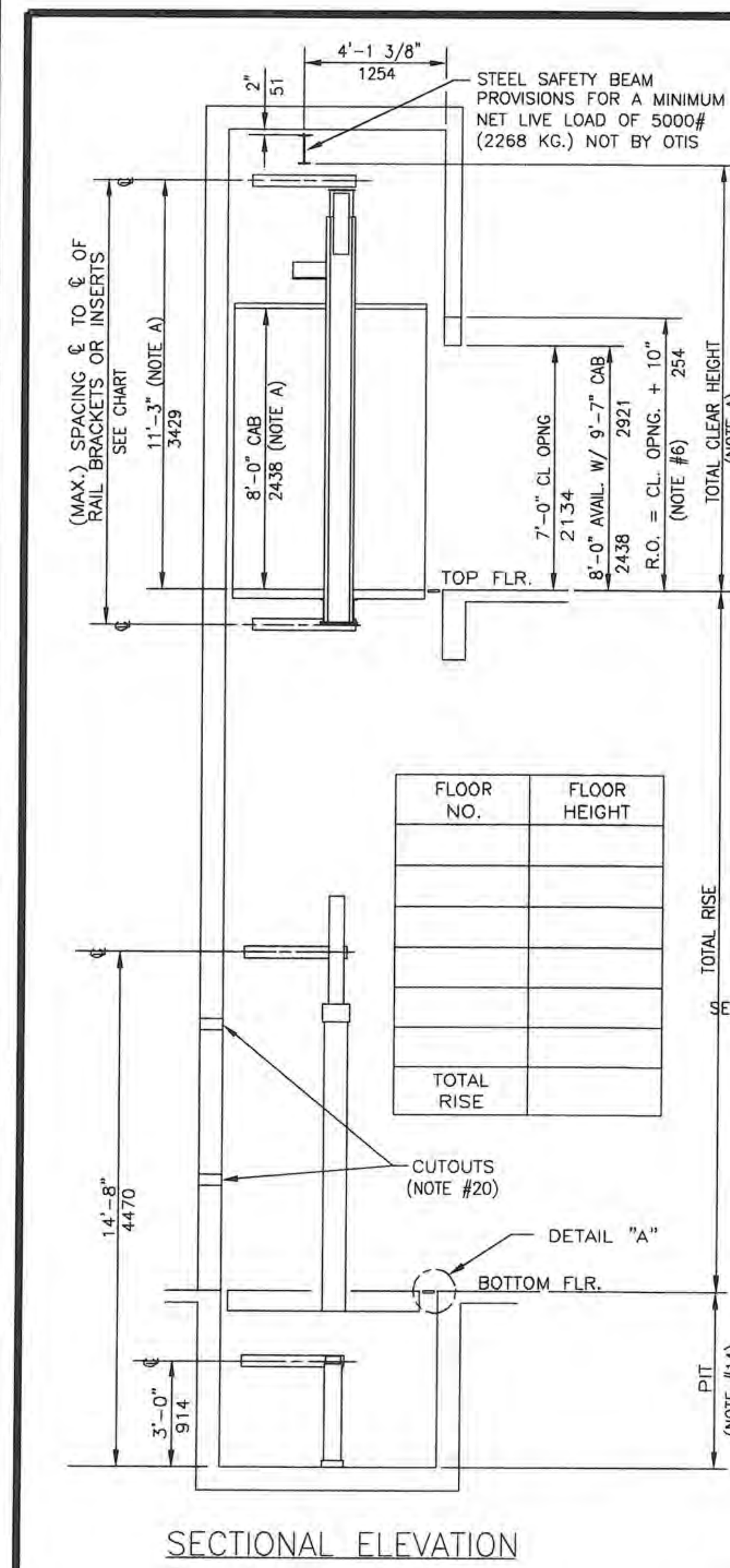
A1.1



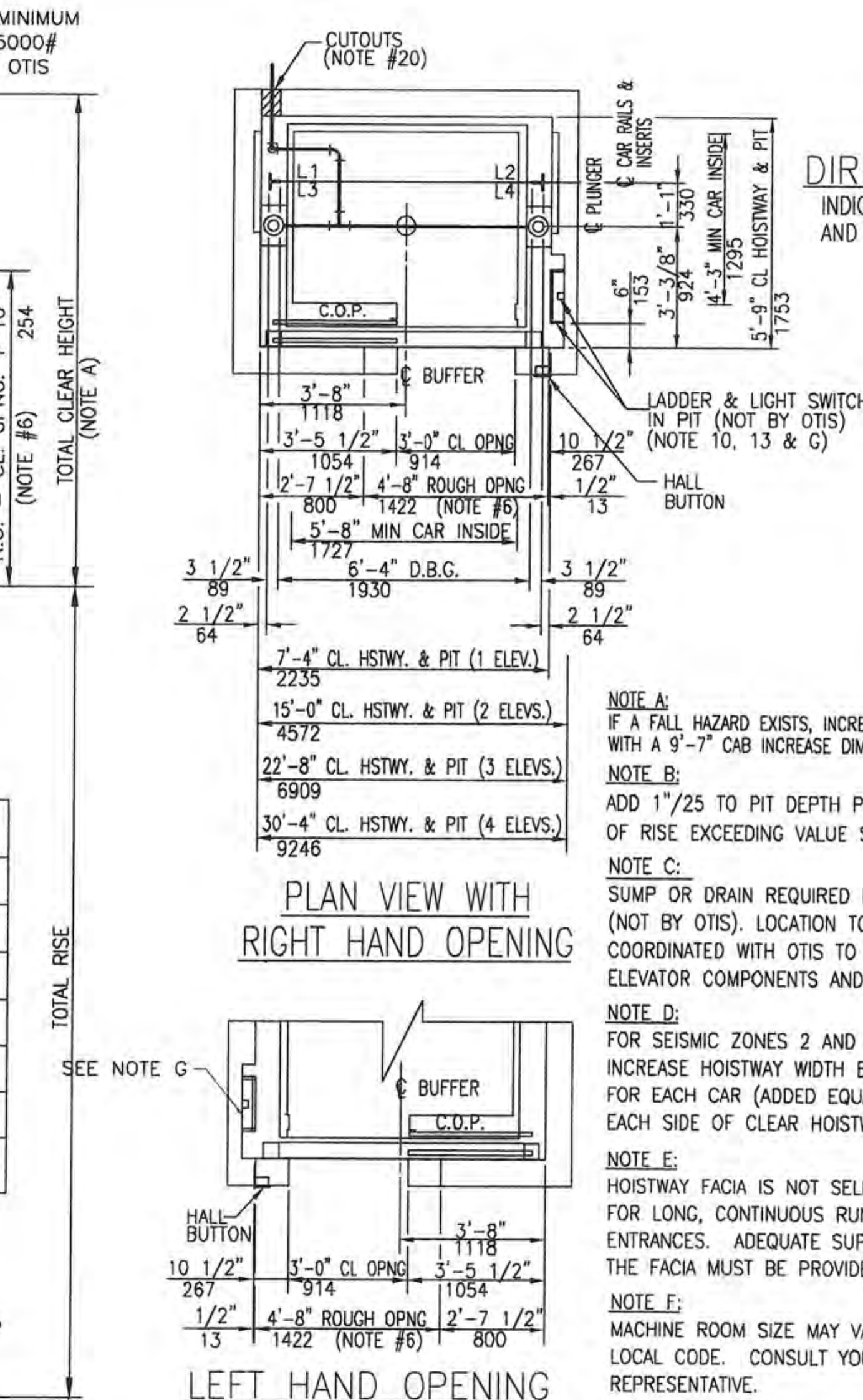
NOTE: ALL WALLS ARE TYPE "A" UNLESS OTHERWISE NOTED

A1
SCALE: 1/8" = 1'-0"
SECOND FLOOR PLAN



FLOOR NO.	FLOOR HEIGHT
TOTAL RISE	

SECTIONAL ELEVATION



PLAN VIEW WITH RIGHT HAND OPENING

LEFT HAND OPENING

DIRECTIONAL ARROW
INDICATE NORTH FOR HOISTWAY AND MACHINE ROOM PLAN.

NOTE A:
IF A FALL HAZARD EXISTS, INCREASE DIM BY 1"/25. WITH A 9'-7" CAB INCREASE DIM BY 1'-7"/483

NOTE B:
ADD 1"/25 TO PIT DEPTH PER EVERY 1"/25 OF RISE EXCEEDING VALUE SHOWN IN TABLE.

NOTE C:
SUMP OR DRAIN REQUIRED IN PIT (NOT BY OTIS). LOCATION TO BE COORDINATED WITH OTIS TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.

NOTE D:
FOR SEISMIC ZONES 2 AND GREATER, INCREASE HOISTWAY WIDTH BY 2"/51 FOR EACH CAR (ADDED EQUALLY TO EACH SIDE OF CLEAR HOISTWAY).

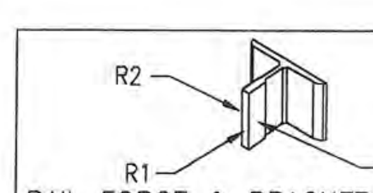
NOTE E:
HOISTWAY FACIA IS NOT SELF-SUPPORTING FOR LONG, CONTINUOUS RUNS VOID OF ENTRANCES. ADEQUATE SUPPORT FOR THE FACIA MUST BE PROVIDED BY OTHERS.

NOTE F:
MACHINE ROOM SIZE MAY VARY WITH LOCAL CODE. CONSULT YOUR OTIS REPRESENTATIVE.

NOTE G:
IN AREAS REQUIRING COMPLIANCE TO ASME A17.1a-2002 INCREASE HOISTWAY & PIT WIDTH BY 2.5" EACH SIDE (5" OVERALL)
OR PROVIDE CUTOUT FOR PIT LADDER:
(CUTOUT = 26"W x 2.5"D x (PIT DEPTH + 48")H).
CONSULT YOUR LOCAL OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC REQUIREMENTS AND LADDER LOCATION.

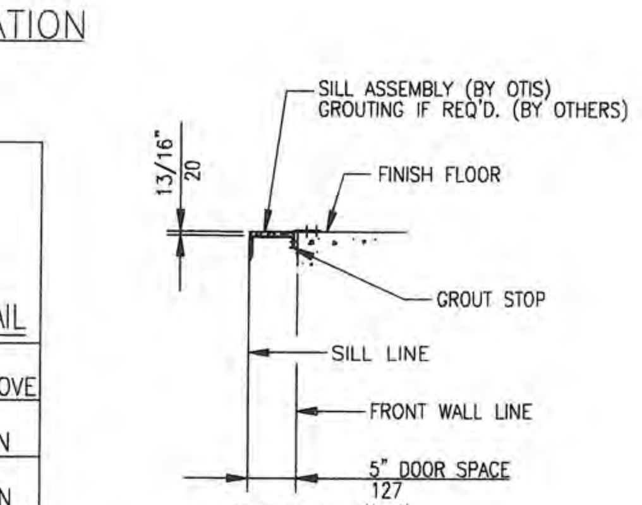
IMPORTANT NOTES
GENERAL REQUIREMENTS BY OTHERS

1. PROPERLY FRAMED AND ENCLOSED LEGAL HOISTWAY INCLUDING VENTING AS REQUIRED BY THE GOVERNING CODE AND SAFETY BEAM AS SHOWN.
2. ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS NOT TO EXCEED THE VERTICAL SPACING SHOWN ON THE RAIL BRACKET CHART. SEPARATOR BEAMS WHERE REQUIRED.
3. PROVISIONS FOR GUARDING AND PROTECTING THE HOISTWAY DURING CONSTRUCTION TO BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS.
4. ALL CUTTING OR PATCHING TO ACCOMMODATE ELEVATOR INSTALLATION.
5. HOISTWAY WALLS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIRED FIRE RATING INCLUDING WHERE PENETRATED BY ELEVATOR FIXTURE BOXES, AND TO INCLUDE ADEQUATE FASTENINGS TO HOISTWAY ASSEMBLIES. A HORIZONTAL SUPPORT MUST BE PROVIDED 12" (305mm) ABOVE THE CLEAR OPENING AT EACH LANDING TO SUPPORT THE DOOR FRAME ASSEMBLY. THE ENTRANCE WALL AND THE FINISHED FLOOR MUST NOT BE CONSTRUCTED UNTIL THE FRAMES AND SILLS ARE SET.
6. FOR PRECAST OR POURED CONCRETE WALLS, PROVIDE THE ROUGH OPENNING FOR HOISTWAY AS SHOWN ON LAYOUT, AND ANY GROUTING AROUND ENTRANCE FRAMES IF REQ'D.
7. SUITABLE MACHINE ROOM WITH LEGAL ACCESS AND MINIMUM HEIGHT OF 7'6" (2286 mm) TO BE PROVIDED. MACHINE ROOM TEMPERATURE MAINTAINED BETWEEN 60° & 100° F (15.5° & 37.8° C). RELATIVE HUMIDITY NOT TO EXCEED 95% NON-CONDESING. FOR HEATING, VENTILATION, AND AIR CONDITIONING REQUIREMENTS OTHER THAN THOSE SHOWN ABOVE REFER TO OTIS CONFIRMATION OF POWER SUPPLY FORM.
8. A SEPARATE BRANCH CIRCUIT FOR SUITABLE LIGHT FIXTURE(S) AND CONVENIENCE OUTLETS, WITH G.F.I., IN THE MACHINE ROOM WITH THE LIGHT SWITCH LOCATED ADJACENT TO THE LOCK JAMB SIDE OF THE MACHINE ROOM DOOR.
9. FOR EACH ELEVATOR, A THREE PHASE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AND A SINGLE PHASE 120 VOLT LIGHTING SUPPLY. EACH WITH A FUSED DISCONNECT SWITCH OR CIRCUIT BR EAKER, LOCATED IN THE MACHINE ROOM AND WIRED TO EACH CONTROLLER.
10. IN THE PIT, A SEPARATE BRANCH CIRCUIT FOR CONVENIENCE G.F.C.I. OUTLET & LIGHT FIXTURE WITH LIGHT SWITCH ADJACENT TO THE PIT LADDER.
11. ALL ELECTRIC POWER FOR TOOLS, LIGHT, HOIST, ETC., DURING ERECTION AS WELL AS ELECTRIC CURRENT FOR STARTING AND ADJUSTING THE ELEVATOR.
12. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES OF UP TO:
 14,000/62 LBS/KN AT EACH BUFFER AND
 3,169/14 LBS/KN AT THE CYLINDER HEAD.
 THE ACCUMULATION OF WATER MUST BE PREVENTED.
13. A FIXED VERTICAL STEEL LADDER TO PIT EXTENDING 4'-0" (1219mm) ABOVE THE SILL OF THE BOTTOM ENTRANCE AS LOCATED IN THE PLAN VIEW. LADDER WIDTH AND PROJECTION FROM WALL PER LOCAL CODE. IF PIT DEPTH IS GREATER THAN 9'-10" (3000mm) [13'-9" (4191mm) WITH NO FLOOR BELOW BOTTOM LANDING], A PIT ACCESS DOOR IS REQUIRED.
14. PIT FLOOR BENEATH CYLINDERS AND BUFFER TO BE FLAT AND LEVEL WITHIN 1/8" (3mm) FULL WIDTH OF HOISTWAY.
15. ELEVATOR CAB FLOORING MUST NOT EXCEED A THICKNESS OF 5/16" (8mm).
16. ONE (1) DEDICATED OUTSIDE TELEPHONE LINE TO THE ELEVATOR MACHINE ROOM MUST BE FURNISHED. TELEPHONE CONNECTIONS TO EACH CONTROLLER. TELEPHONE INSTRUMENT BY OTHERS.
17. ALL 125 VOLT, 15 OR 20 AMP, SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN PITS, MACHINE ROOMS OR MACHINERY SPACES. SHALL BE OF THE GROUND-FAULT-CIRCUIT-INTERRUPTER TYPE.
18. SMOKE DETECTORS, LOCATED AS REQUIRED, WITH WIRING FROM THE SENSING DEVICES TO A CONTROLLER DESIGNATED BY OTIS. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING ALL SMOKE DETECTORS LOCATED IN LOBBIES, HOISTWAYS, OR MACHINE ROOMS, BUT NOT THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING (SEE ABOVE) OR THE SMOKE DETECTORS AS DESCRIBED IN A & B BELOW:
 A) IF A SMOKE DETECTOR IS LOCATED IN THE HOISTWAY AT OR BELOW THE LOWER OF THE TWO RECALL LANDINGS, IT SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR LOCATED IN THE LOBBY AT THE LOWER OF THE TWO RECALL LANDINGS.
 B) IF MACHINE ROOMS ARE LOCATED AT THE DESIGNATED RETURN LANDING, THE SMOKE DETECTOR LOCATED THEREIN SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR AT THE DESIGNATED LANDING. FOR A SINGLE UNIT, OR GROUP OF ELEVATORS HAVING ONE COMMON MACHINE ROOM AND ONE COMMON HOISTWAY, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT REPRESENTING ALL MACHINE ROOM AND HOISTWAY SMOKE DETECTORS. IF THE GROUP CONTAINS MORE THAN ONE HOISTWAY, AND HOISTWAY SMOKE DETECTORS ARE INSTALLED, OR IF THE GROUP HAS MORE THAN ONE MACHINE ROOM, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT FOR EACH ELEVATOR. THE CONTACT IS TO REPRESENT THE SMOKE DETECTOR IN THE MACHINE ROOM FOR THAT PARTICULAR ELEVATOR, AND ANY SMOKE DETECTORS IN THE HOISTWAY CONTAINING THAT PARTICULAR ELEVATOR.
19. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, MACHINE ROOM, OR MACHINERY SPACES, THE LOCAL CODE MAY REQUIRE A MEANS TO AUTOMATICALLY DISCONNECT THE MAIN POWER SUPPLY OF THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER (CONFIRM WITH THE LOCAL CODE OFFICIAL). SMOKE DETECTORS SHALL NOT BE USED TO ACTIVATE SPRINKLERS IN HOISTWAYS, MACHINE ROOMS OR MACHINERY SPACES OR TO DISCONNECT THE MAIN LINE POWER SUPPLY.
20. TWO (2) 6" X 6" (152mm x 152mm) CUTOUTS ARE REQUIRED (NOT BY OTIS). THE ACTUAL LOCATION OF THE CUTOUTS FOR THE TO AND FROM OIL PIPE AND ELECTRICAL TROUGH WILL VARY DEPENDENT UPON MACHINE ROOM LOCATION AND CONFIGURATION.



RAIL FORCE & BRACKET DETAIL

SEISMIC ZONE	ZONE 0 OR 1	ZONE 2	ZONE 3 OR ABOVE
R1	151# 672 N	767# 3412 N	1533# 6819 N
R2	57# 254 N	383# 1704 N	767# 3412 N
MAXIMUM BRACKET SPACING	14'-0" 4267mm		

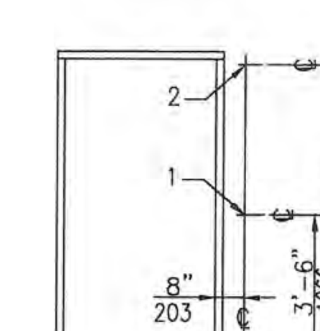


DETAIL "A"
ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. (NOT BY OTIS)

PIT/OVERHEAD REQUIREMENTS

LOCATION	SPEED	PIT *SEE NOTE B	MAX. TOTAL RISE PER PIT SHOWN	TOTAL CLEAR HEIGHT (NOTE A)
U.S. & CANADA EXCLUDING ONTARIO	100 F.P.M. 0,50 m/s	4'-0" 1219	13'-7" 4140	12'-4" 3759
	125 F.P.M. 0,64 m/s		12'-8" 3861	12'-7" 3835
ONTARIO	100 F.P.M. 0,50 m/s	5'-0" 1524	14'-7" 4445	12'-4" 3759
	125 F.P.M. 0,64 m/s		13'-8" 4166	12'-7" 3835

LVM 2100L
Passenger
Model Hydraulic
2100 lbs.@ 100 / 125 F.P.M.
952 kg @ 0,50 / 0,64 m/s
Simplex Collective



HALL FIXTURE LOCATION
RIGHT HAND AS SHOWN
LEFT HAND OPPOSITE
1. HALL BUTTON AT ALL FLOORS
2. OPTIONAL HALL POSITION INDICATOR OR HALL LANTERN (TYPICAL LOCATION WITH 7'-0" / 2134 OPENING).

MACHINE ROOM IS LOCATED
____ ADJACENT TO HOISTWAY @ LEFT SIDE
____ ADJACENT TO HOISTWAY @ REAR
____ ADJACENT TO HOISTWAY @ RIGHT SIDE
____ REMOTE DISTANCE FROM HOISTWAY
____ MACHINE ROOM LEVEL

MINIMUM CLEAR MACHINE ROOM DIMENSIONS:
5'-9" / 1753 X 7'-4" / 2236
DOOR SIZE IS 3'-0" / 914 X 7'-0" / 2134

FOR MULTI-CAR GROUP MACHINE ROOM SIZES, SEE MACHINE ROOM LAYOUT PAGE IN OASIS.

HYDRAULIC PIPE TO COMFORM TO ASTM A106, GRADE B, SEAMLESS.
DIMENSIONAL DATA ON LAYOUT COMPLIES WITH ASME A17.1 AND/OR LOCAL CODE.

REVISIONS	
08-01-01	CHANGED NOTE A: AND 13 TO MEET HARMONIZED CODE (PCAN4754)TW/PW
03/18/02	REVISED NOTES 13 & 19. (PCAN5003)AH/ML
10-01-02	REVISED NOTE 13; ADDED LADDER CUTOUT & NOTE G; LOCATING DIM FOR LADDER WAS 10"/254. (PCAN5196)AH/QH
12-03-03	NOTE A, 1"/25 WAS 5"/127. (PCAN5695)AH/ML

APPROVAL
THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED
SIGNED DATE

GUARANTEE
HOISTWAY SIZE GUARANTEED PLUMB WITHIN 1" /25mm BUT NOT LESS THAN FIGURES SHOWN
SIGNED DATE

UNITED TECHNOLOGIES OTIS ELEVATOR
BUILDING
LOCATION SEISMIC ZONE
CONT. WITH
OWNER
ARCHT.
SALES NO.

LVM 2100L

DWG. NO. AAA28010BV

A19
SCALE: NTS
OTIS LVM2100L CUT SHEET

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SECOND FLOOR PLAN

SEAL


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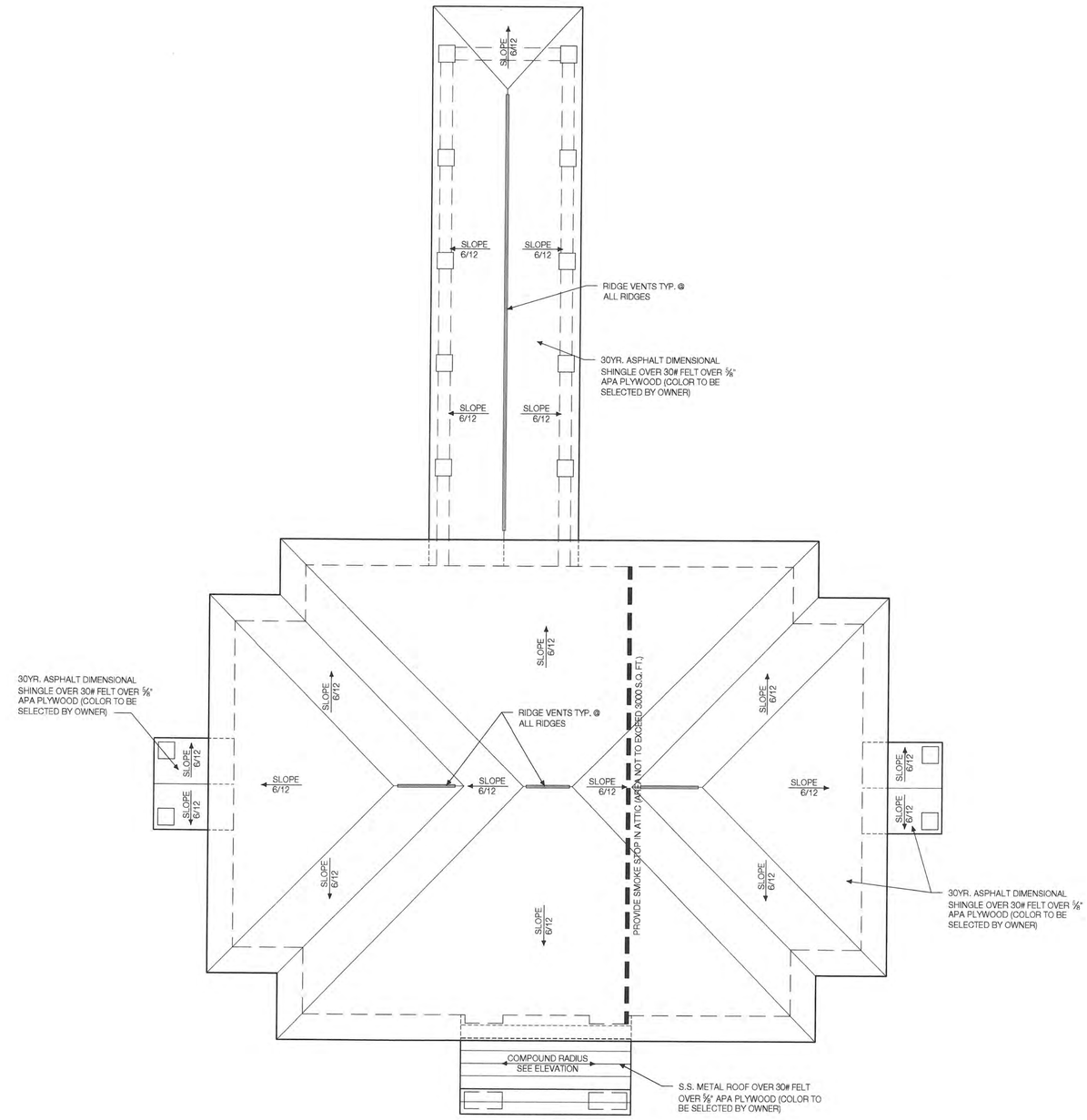
A1.2



A1
SCALE: 1/8" = 1'-0"
ROOF PLAN

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ROOF PLAN

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
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REGISTERED ARCHITECT
7-24-2006

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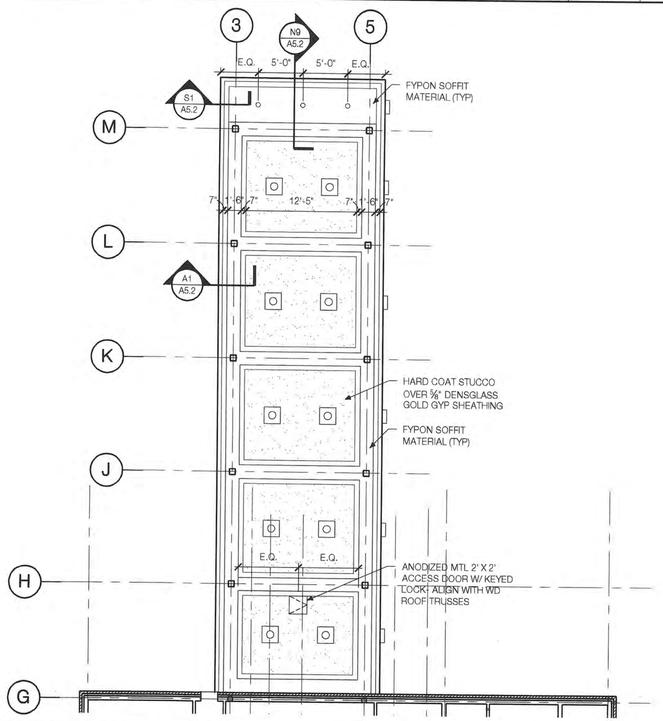
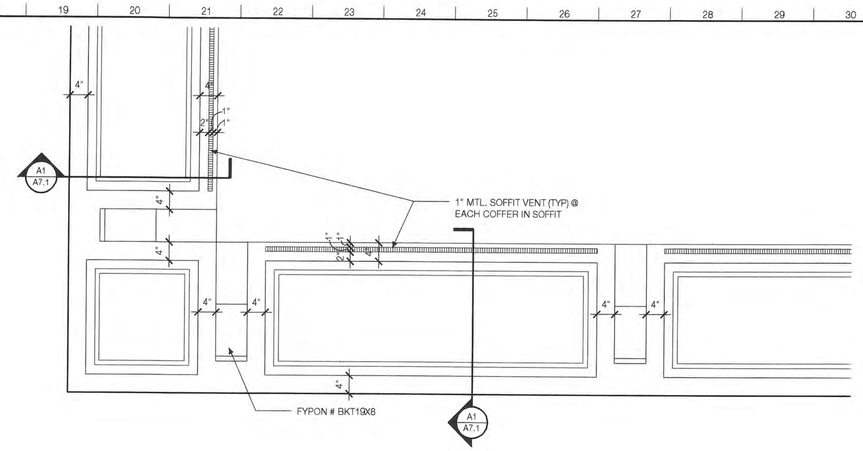
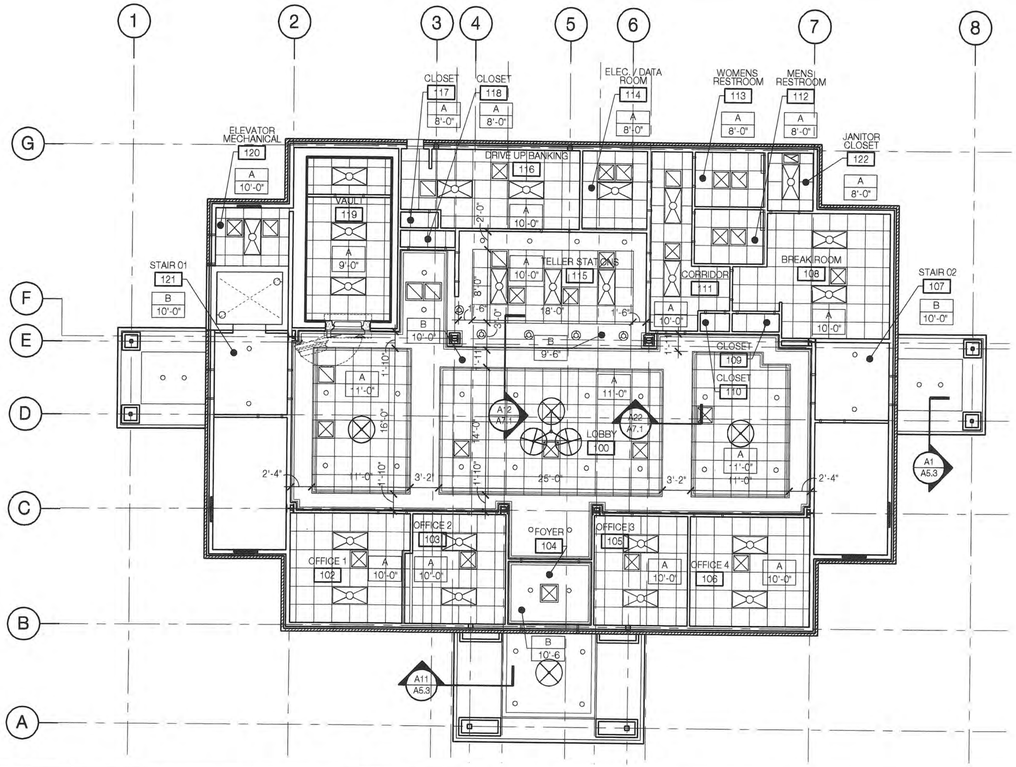
A1.3



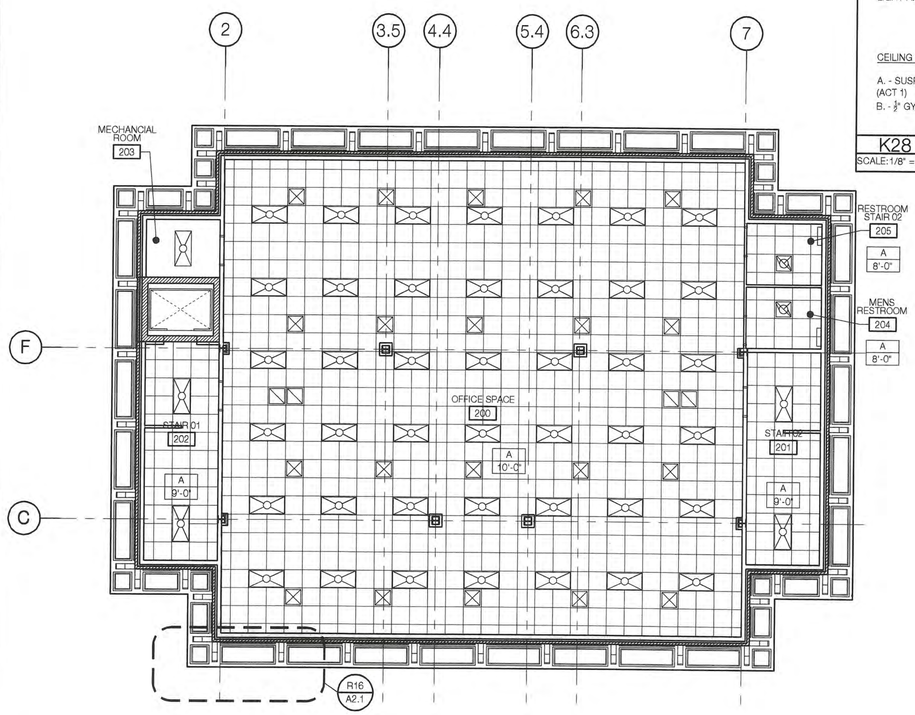
M1 SCALE:1/8" = 1'-0" DRIVE-THRU REFLECTED CEILING PLAN



R16 SCALE:3/4" = 1'-0" SOFFIT REFELECTED CEILING PLAN DETAIL



A1 SCALE:1/8" = 1'-0" FIRST FLOOR REFLECTED CEILING PLAN



A16 SCALE:1/8" = 1'-0" SECOND FLOOR REFLECTED CEILING PLAN

R.C.P. LEGEND

- ACOUSTICAL CEILING GRID & TILE
- 2'X4' ATC MOUNTED LIGHT FIXTURE
- 2'X2' SURFACE MOUNTED LIGHT FIXTURE
- RECESSED CAN LIGHT
- WALL MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE

CEILING TYPES

A. - SUSPENDED GRID & LAY IN ACCOUSTIC TILE (ACT 1)
B. - ⅝" GYP. BOARD

K28 SCALE:1/8" = 1'-0" LEGENDS

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REFLECTED CEILING PLAN

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
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REGISTERED ARCHITECT
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A2.1

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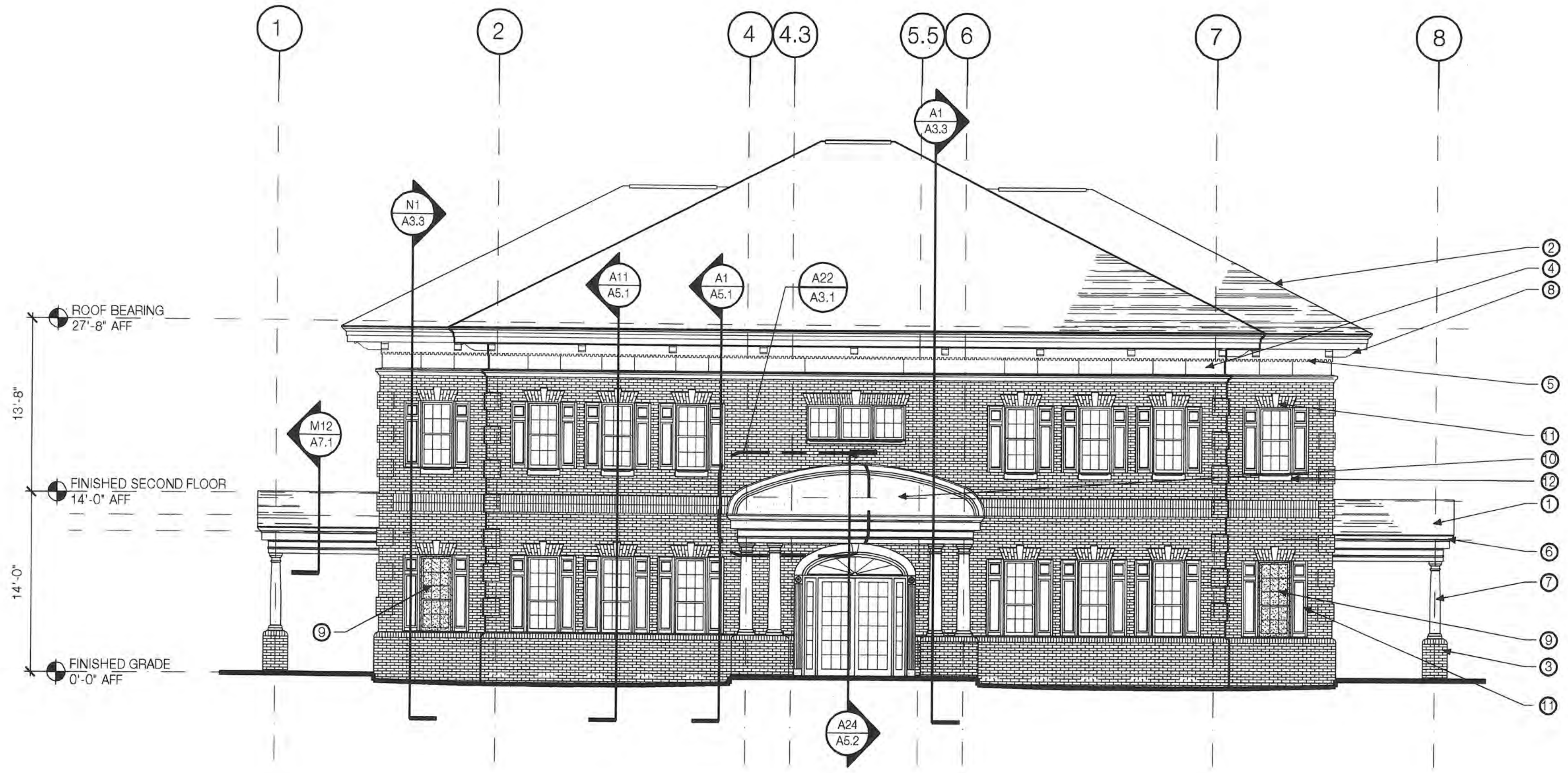
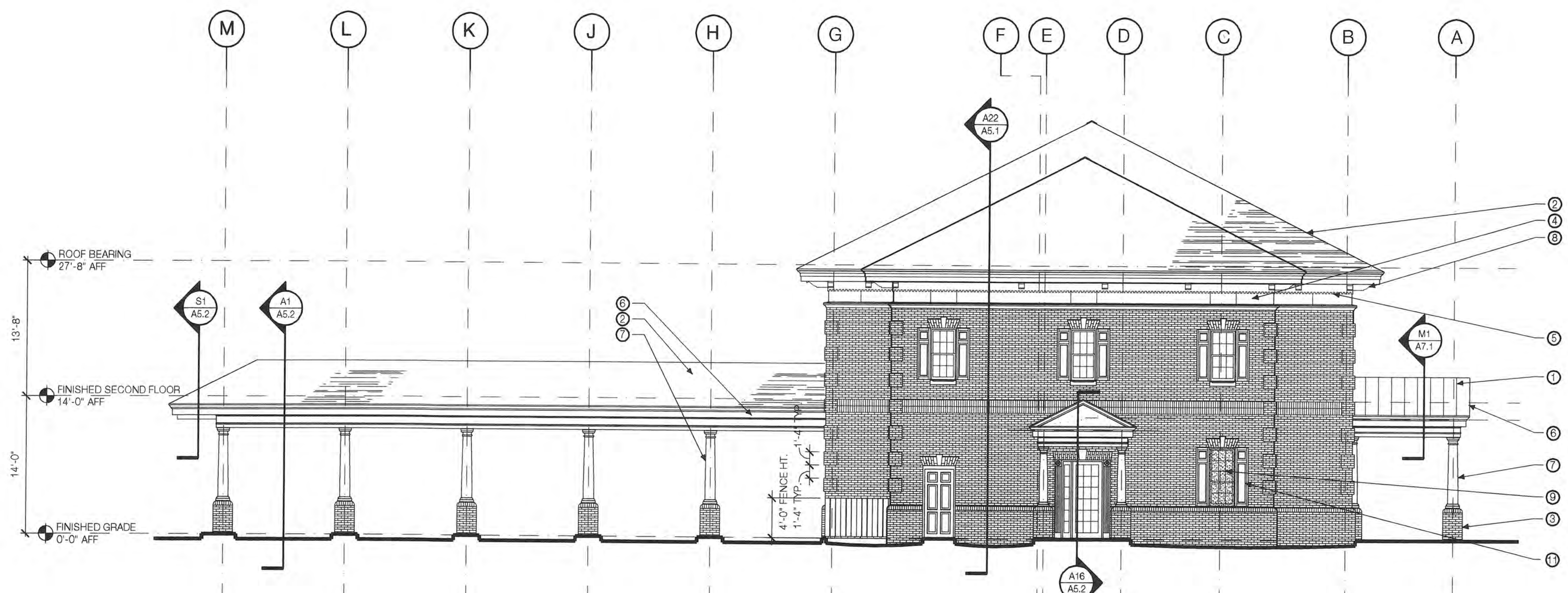


M1
SCALE: 1/8" = 1'-0"
EXTERIOR ELEVATION

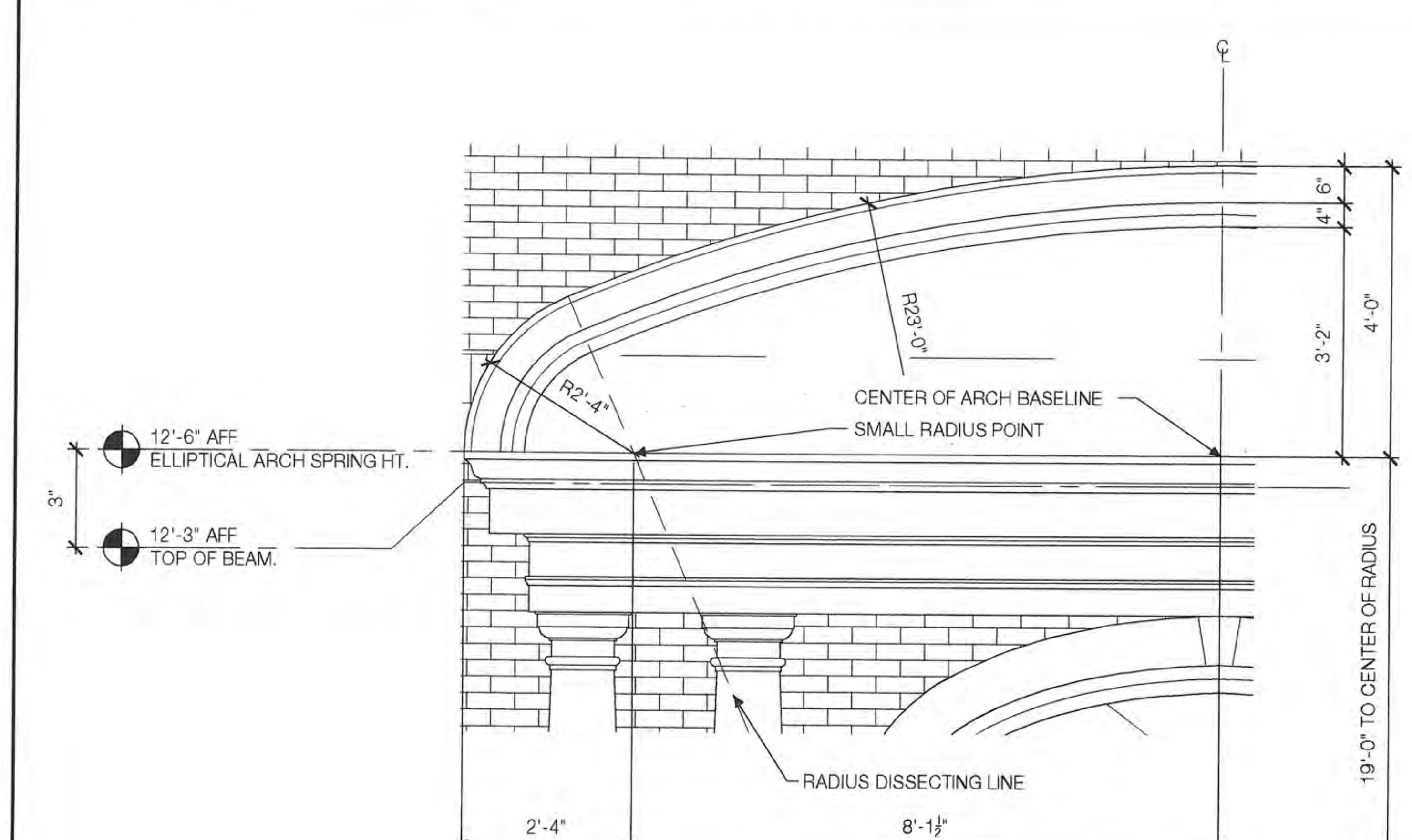


A1
SCALE: 1/8" = 1'-0"
EXTERIOR ELEVATION

MATERIAL LEGEND
(ARCHITECT REQUIRES COLOR SAMPLES FOR ALL MATERIALS LISTED BELOW)

- (1) STANDING SEAM METAL ROOF
  - A. GENERAL: PROVIDE FACTORY-FORMED METAL ROOF PANELS DESIGNED TO BE FIELD ASSEMBLED BY LAPPING AND INTERCONNECTING RAISED SIDE EDGES OF ADJACENT PANELS WITH JOINT TYPE INDICATED AND MECHANICALLY ATTACHING PANELS TO SUPPORTS USING CONCEALED CLIPS IN SIDE LAPS. INCLUDE CLIPS, CLEATS, PRESSURE PLATES AND ACCESSORIES REQUIRED FOR WEATHERTIGHT INSTALLATION.
    1. STEEL PANEL SYSTEMS: UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, COMPLY WITH ASTM E 1646 AND ASTM E 1680.
  - B. VERTICAL-RIB, SNAP-JOINT, STANDING-SEAM METAL ROOF PANELS: FORMED WITH VERTICAL RIBS AT PANEL EDGES AND INTERMEDIATE STIFFENING RIBS SYMMETRICALLY SPACED; DESIGNED FOR SEQUENTIAL INSTALLATION BY MECHANICALLY ATTACHING PANELS TO SUPPORTS USING CONCEALED CLIPS LOCATED UNDER ONE SIDE OF PANELS AND ENGAGING OPPOSITE EDGE OF ADJACENT PANELS AND SNAPPING PANELS TOGETHER.
    1. BASIS-OF-DESIGN PRODUCT: BERRIDGE MANUFACTURING COMPANY ZEE-LOCK STANDING SEAM PANEL OR A COMPARABLE PRODUCT OF ONE OF THE FOLLOWING:
       - a. AEP-SPAN.
       - b. CENTRIA ARCHITECTURAL SYSTEMS.
       - c. MBCI; DIVISION OF NCI BUILDING SYSTEMS.
       - d. MERCHANT & EVANS, INC.
    2. PANEL COVERAGE: 16 INCHES (406MM).
    3. PANEL HEIGHT: 2 INCHES
    4. UPLIFT RATING: UL90
    5. COLOR TO BE SELECTED BY OWNER
- (2) ASPHALT FIBERGLASS SHINGLE MATERIALS
  - A. FIBERGLASS STRIP SHINGLES, UL CLASS "A", HEAVYWEIGHT (250 LB/SQ) MINERAL SURFACED, SELF-SEALING, LAMINATED MULTI-PLY, OVERLAY CONSTRUCTION COMPLYING WITH ASTM D3018, TYPE I, AND ASTM D 3462. PROVIDE SHINGLES BEARING UL CLASS "A" EXTERNAL FIRE EXPOSURE LABEL AND UL "WIND RESISTANT" LABEL.
  - B. PRODUCT/COLOR: ACCEPTABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD SELECTION.
  - C. PROVIDE PRODUCTS OF ONE OF THE FOLLOWING:
    1. GAF
    2. OWENS CORNING
    3. ELK
  - D. ASPHALT-SATURATED ROOFING FELT: NO. 30, UNPERFORATED ORGANIC FELT, COMPLYING WITH ASTM D 226, TYPE I, 36" WIDE, APPROXIMATE WEIGHT 18 LBS./SQUARE.
  - E. NAILS: E.G. HARDENED DO-ALL LOC-NAILS OR EQUAL AS APPROVED BY ROOF DECK MANUFACTURER.
  - F. VENTED SOFFIT PANELS: PERFORATED VINYL LINEAL SOFFIT AT SECOND FLOOR ROOF OVERHANG.
  - G. ATTIC RAFTER VENT INSERTS: PROVIDE ATTIC RAFTER VENTS, RAFT-R-MATIC BY OWENS CORNING, OR APPROVED EQUAL, AT ALL EXTERIOR SOFFIT WALL JUNCTION OVERHANG.
- (3) BRICK VENEER TO MATCH BRICK USED ON THE EXISTING CITIZENS BANK OF EFFINGHAM SPRINGFIELD BRANCH LOCATION OR CLOSEST MATCH AVAILIABLE USING ALLOWANCE OF $360 PER 1000.
- (4) WEEPABLE EFIS SYSTEM
  - A. PROVIDE AIR/MOISTURE BARRIER, EIF SYSTEM AND ACCESSORIES FROM SINGLE SOURCE MANUFACTURER OR APPROVED SUPPLIER.
  - B. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
    1. STO CORP.--AIR/MOISTURE BARRIER, EIF SYSTEM
    2. DRYVIT SYSTEMS, INC.
    3. PAREX
    4. TEC SPECIALTY PRODUCTS
- (5) COMPOSITE TRIM - BY FYPON
- (6) CROWN MOLDING - BY FYPON
- (7) COMPOSITE COLUMN WRAPS
  - A. DRIVE-THRU AND ENTRANCE CANOPIES REQUIRE 16" DIA. COLUMN WRAPS
  - B. SIDE ENTRY CANOPIES TO REQUIRE 10" DIA. COLUMN WRAPS
    1. WORTHINGTON MILLWORK
    2. MELTON CLASSICS INCORPORATED
- (8) BRACKETS - BY FYPON
- (9) BLACK OUT WINDOW (SEE Q20/A6.1)
- (10) SIGNAGE FONT AND STYLE TO MATCH THE EXISTING CITIZENS BANK OF EFFINGHAM SPRINGFIELD BRANCH LOCATION ENTRY SIGNAGE.
- (11) VINYL SHUTTERS - 5'-11" X 1'-4 1/4" (2) PANEL STYLE (FIRST FLOOR) / 5'-3" X 1'-4 1/4" (2) PANEL STYLE (SECOND FLOOR)
  - A. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
    1. ALL VINYL PRODUCTS INC.
    2. WORTHINGTON MILLWORK
- (11) PRE MANUFACTURED CAST STONE KEY
- (12) PRE MANUFACTURED CAST STONE SILL

J22
SCALE: 1/8" = 1'-0"
KEY NOTE MATERIALS LEGEND



A22
SCALE: 1/2" = 1'-0"
ENLARGED ELEVATION AT ENTRY CANOPY

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EXTERIOR ELEVATIONS

SEAL
MONICA D. MASTRIANNI
REGISTERED ARCHITECT
STATE OF GEORGIA
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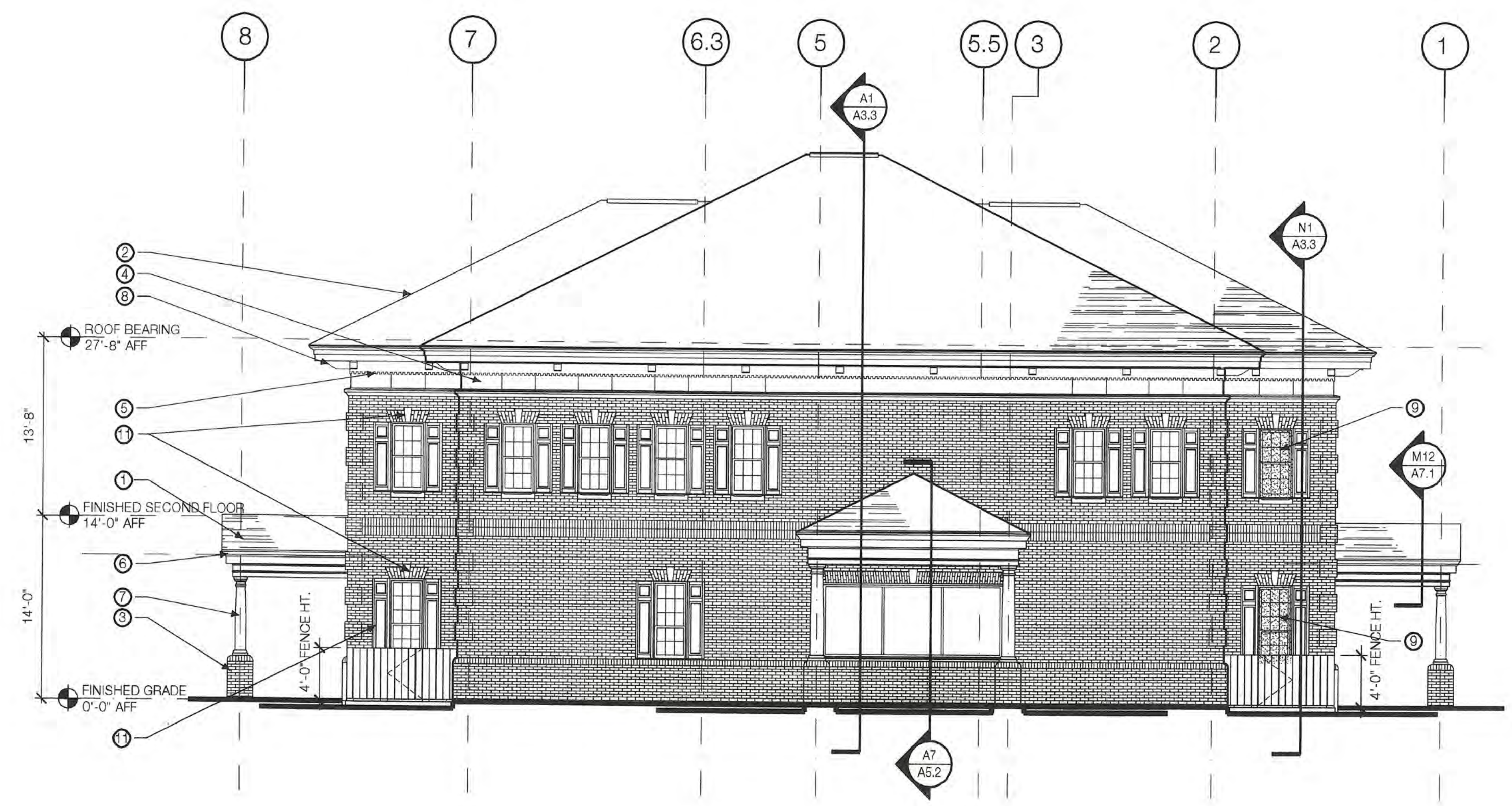
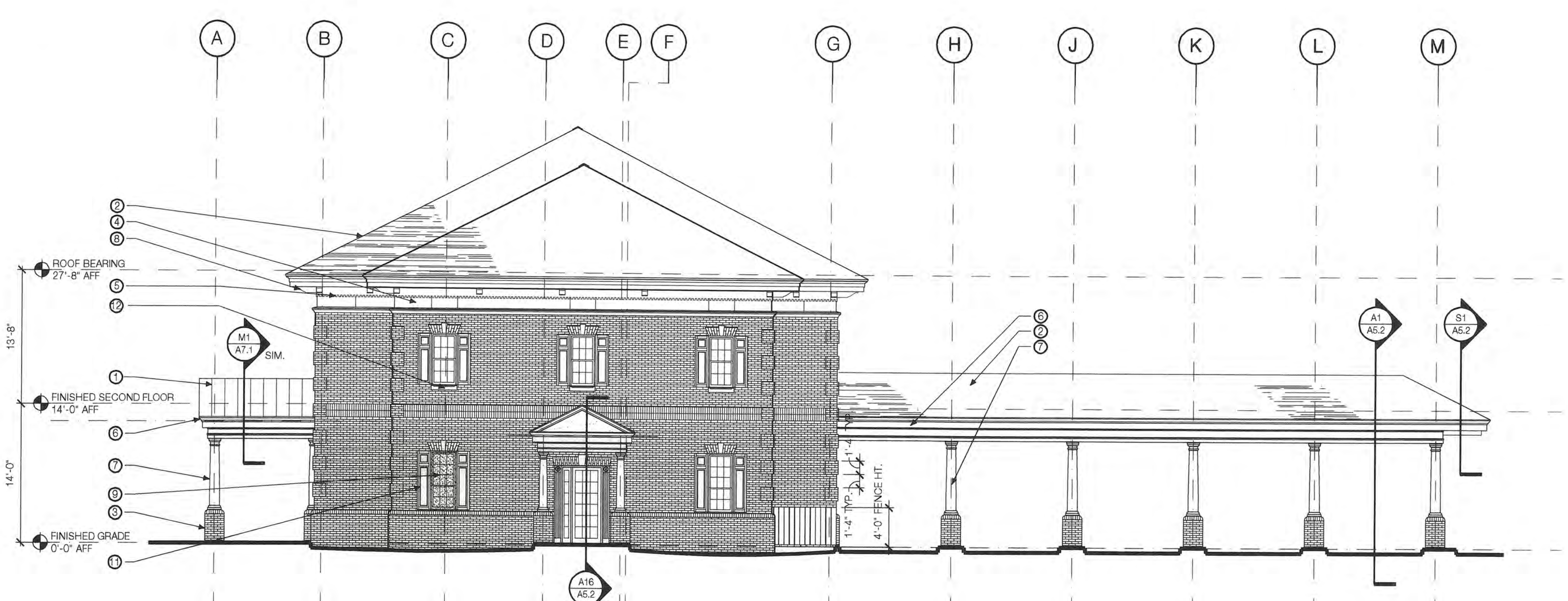


M1
SCALE: 1/8" = 1'-0"
EXTERIOR ELEVATION



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

MATERIAL LEGEND

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       - c. MBCI; DIVISION OF NCI BUILDING SYSTEMS.
       - d. MERCHANT & EVANS, INC.
    2. PANEL COVERAGE: 16 INCHES (406MM).
    3. PANEL HEIGHT: 2 INCHES
    4. UPLIFT RATING: UL90
    5. COLOR TO BE SELECTED BY OWNER

- (2) ASPHALT FIBERGLASS SHINGLE MATERIALS
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  - B. PRODUCT/COLOR: ACCEPTABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD SELECTION.
  - C. PROVIDE PRODUCTS OF ONE OF THE FOLLOWING:
    1. GAF
    2. OWENS CORNING
    3. ELK
  - D. ASPHALT-SATURATED ROOFING FELT: NO. 30, UNPERFORATED ORGANIC FELT, COMPLYING WITH ASTM D 226, TYPE I, 36" WIDE, APPROXIMATE WEIGHT 18 LBS./SQUARE.
  - E. NAILS: E.G. HARDENED DO-ALL LOC-NAILS OR EQUAL AS APPROVED BY ROOF DECK MANUFACTURER.
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    2. WORTHINGTON MILLWORK

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- (12) PRE MANUFACTURED CAST STONE SILL

A23
SCALE: 1/8" = 1'-0"
KEY NOTE MATERIALS LEGEND

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EXTERIOR ELEVATIONS

SEAL
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MONICA D. MASTRIANNI
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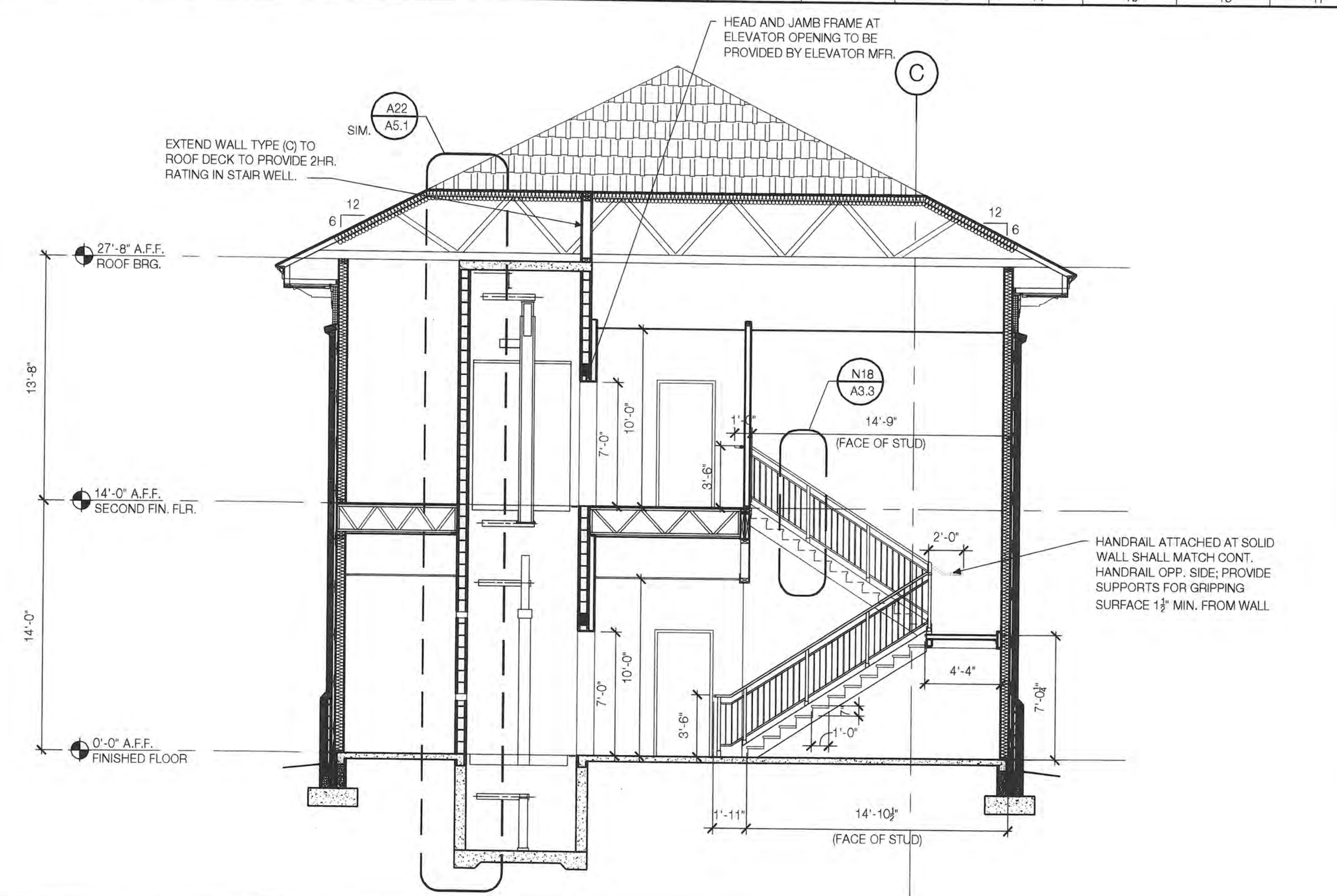

N1 BUILDING SECTION @ STAIR TOWER
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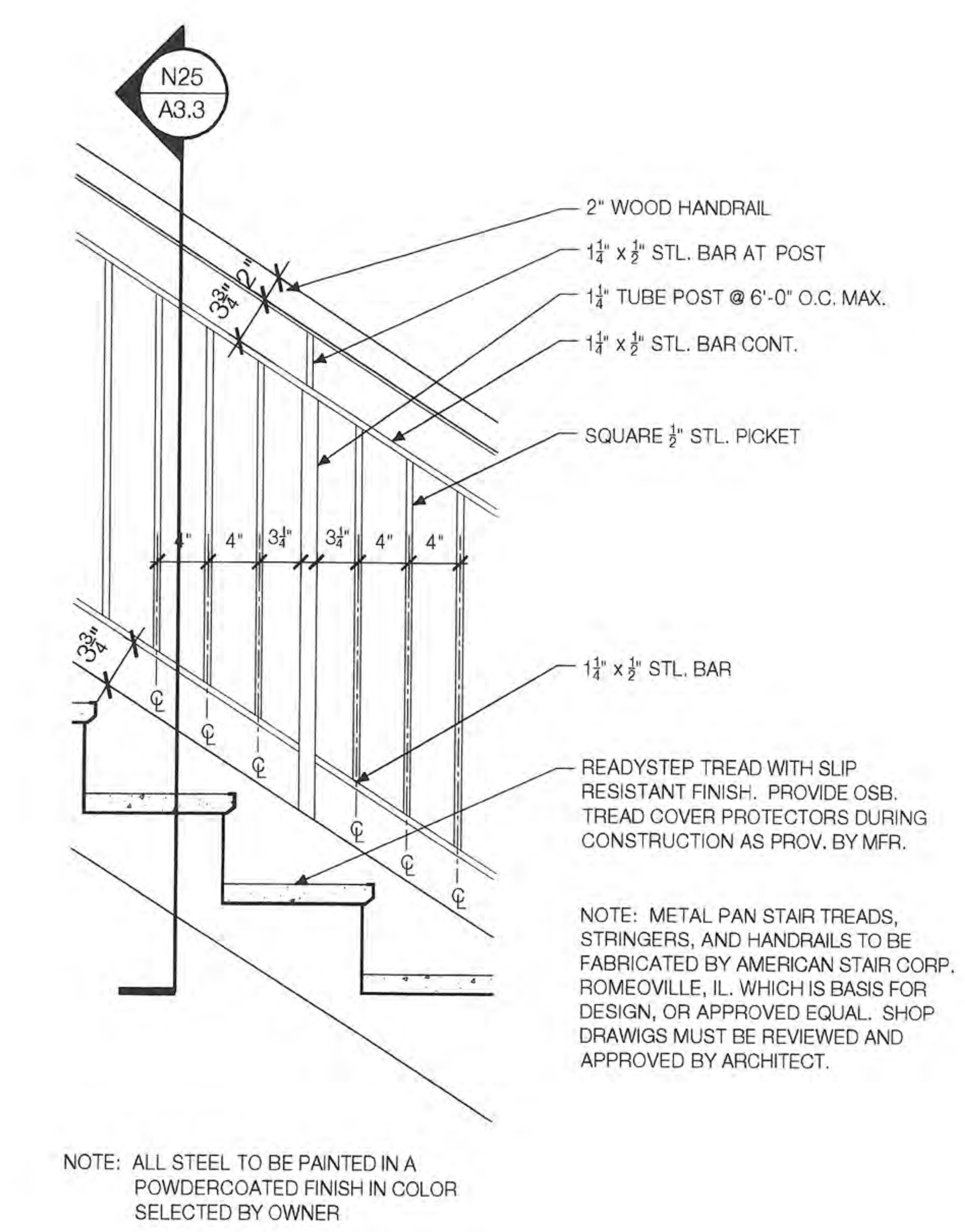
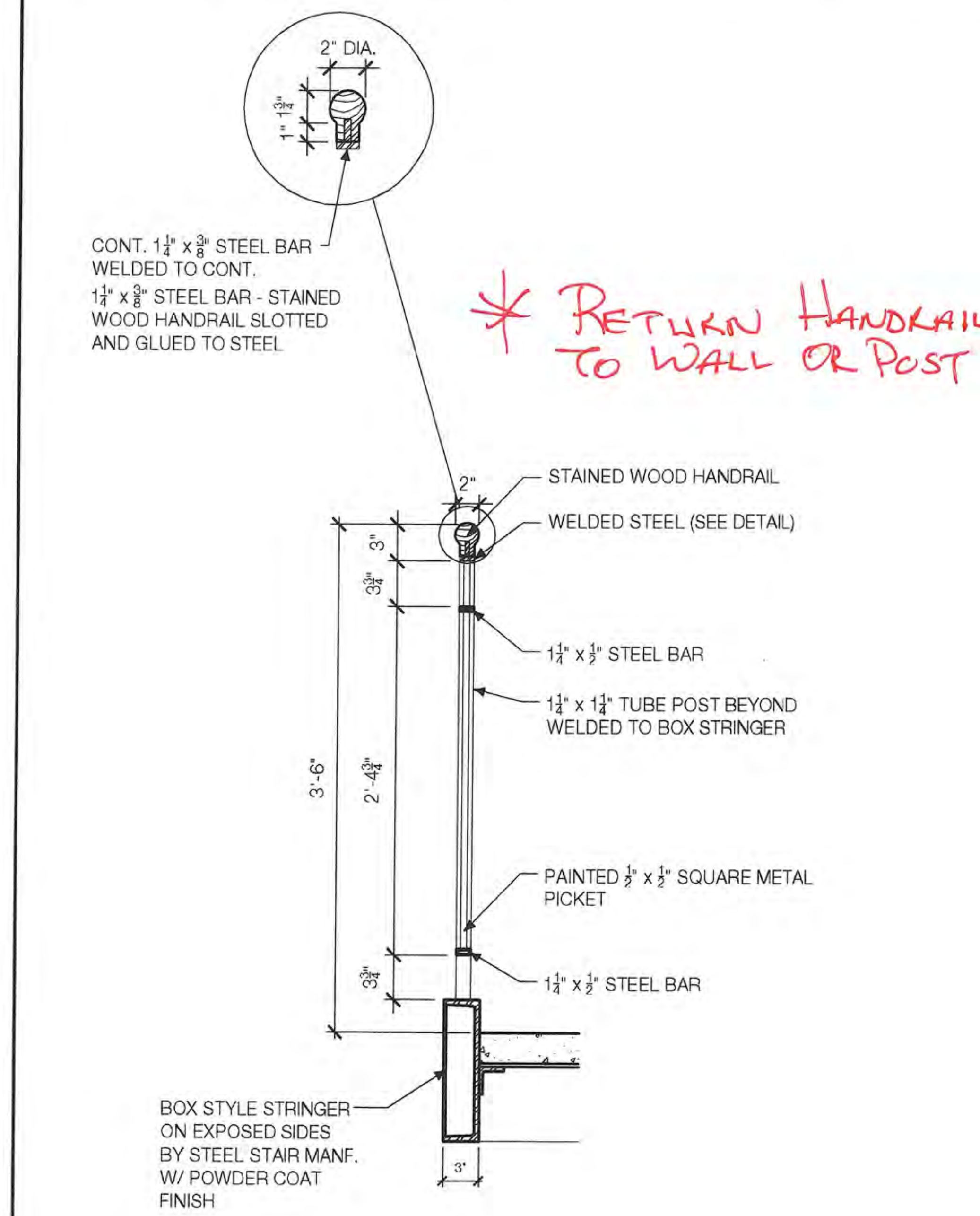


N18 PICKET DETAIL
SCALE: 1" = 1'-0"



N25 HAND RAIL SECTION
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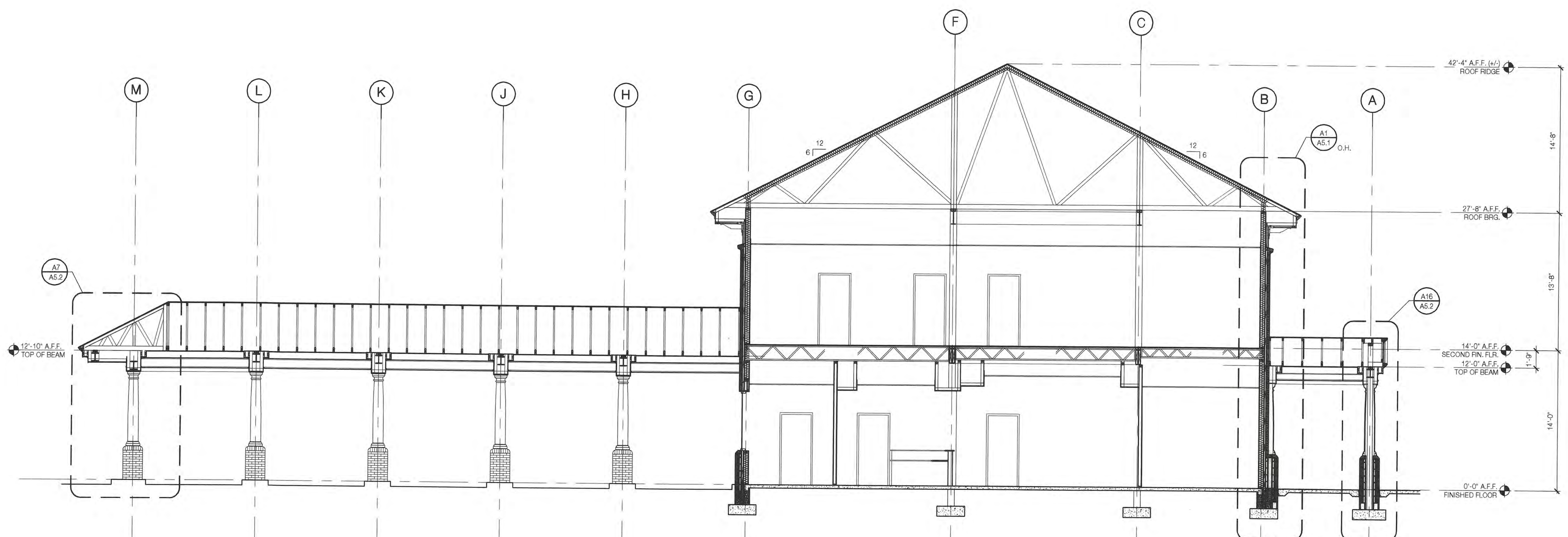

A1 BUILDING SECTION @ LOBBY / OFFICE SPACE
SCALE:3/16" = 1'-0"

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BUILDING SECTIONS

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
REGISTERED ARCHITECT
7-24-2006

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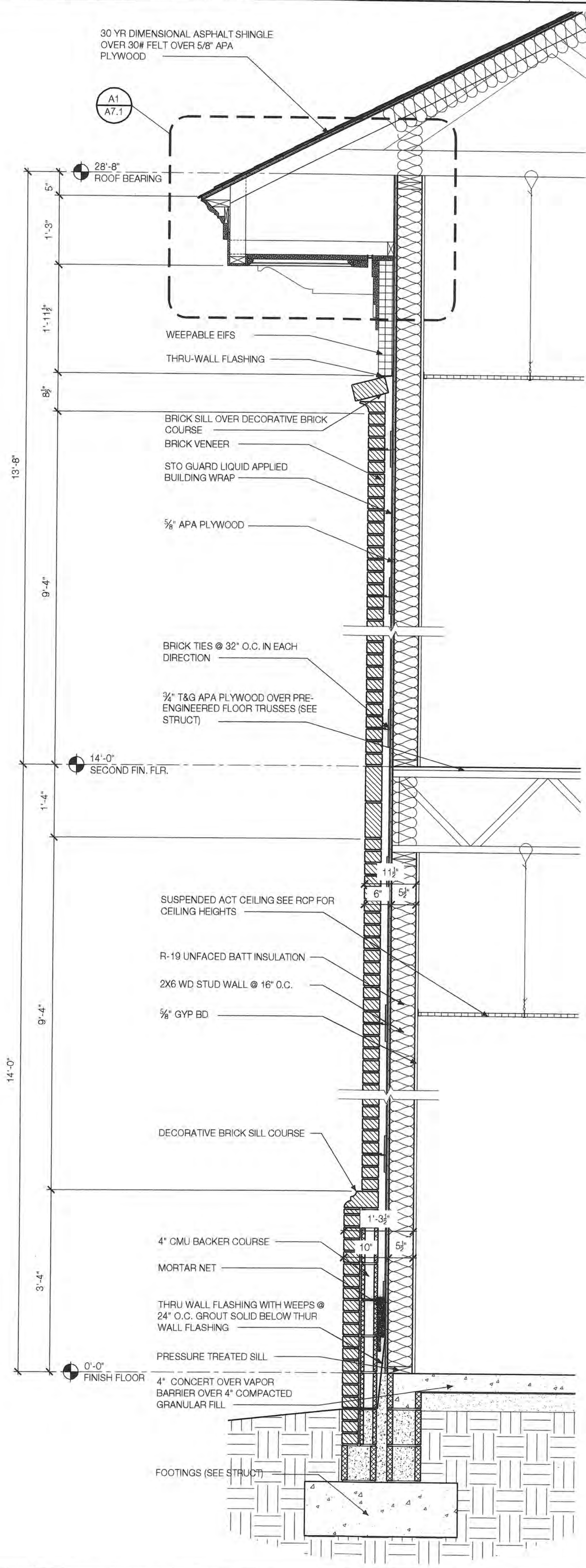

A1
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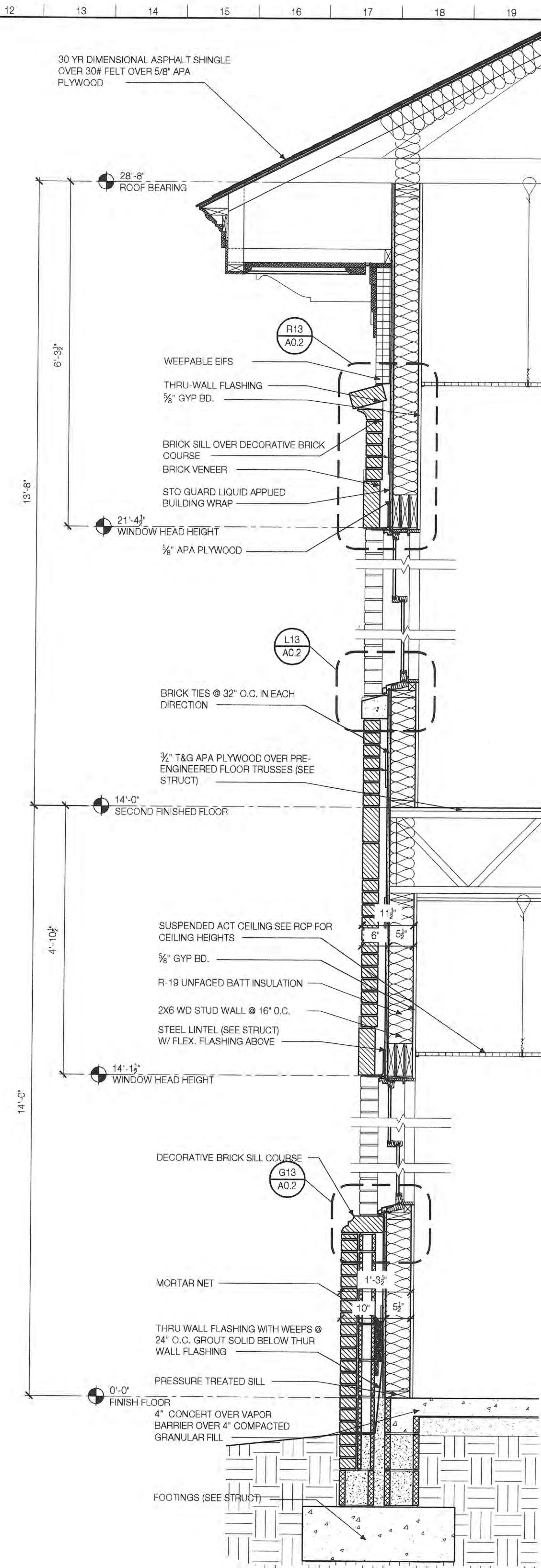
WALL SECTIONS



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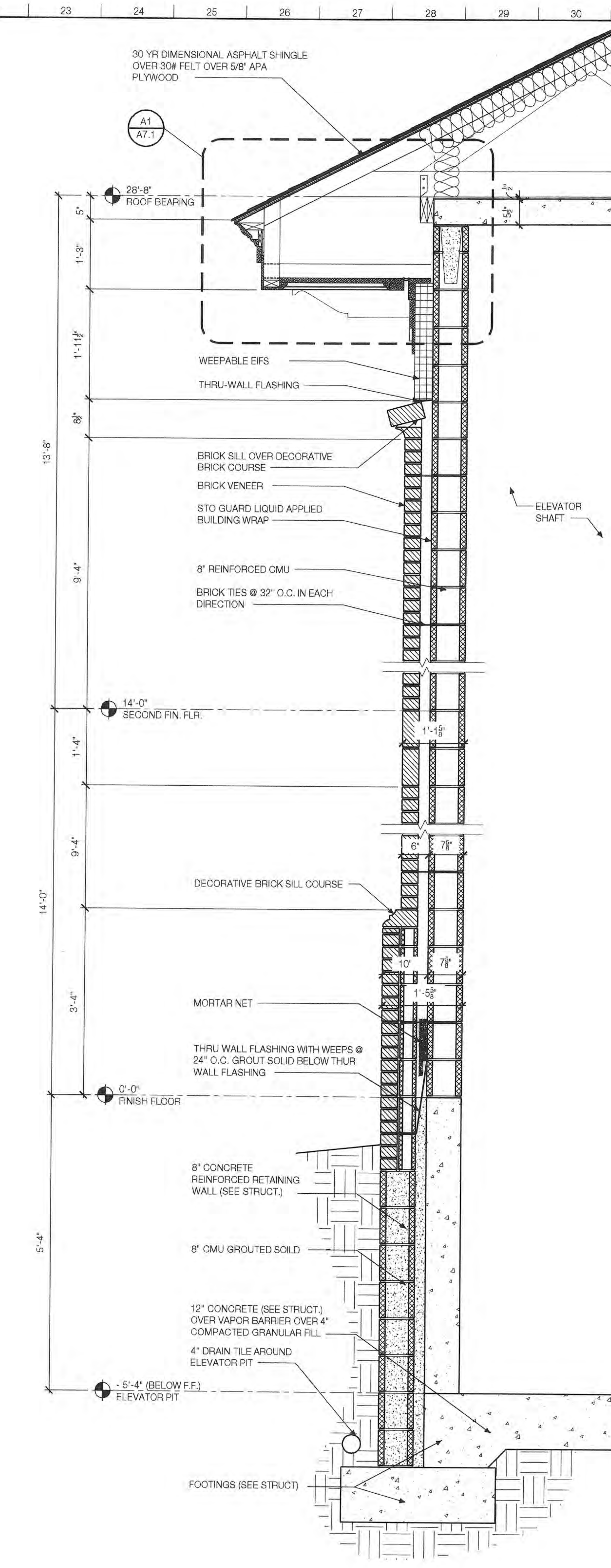
WALL SECTIONS



A22
SCALE:3/4" = 1'-0"
WALL SECTION

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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
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WALL SECTIONS

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STATE OF GEORGIA
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REGISTERED ARCHITECT
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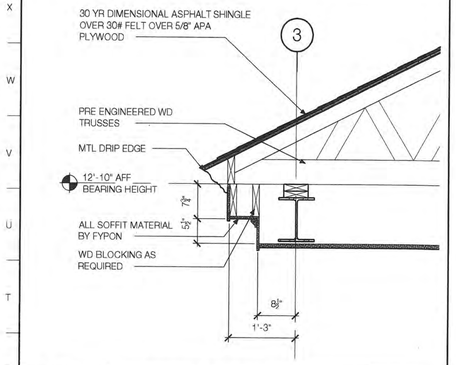
A5.1



S1
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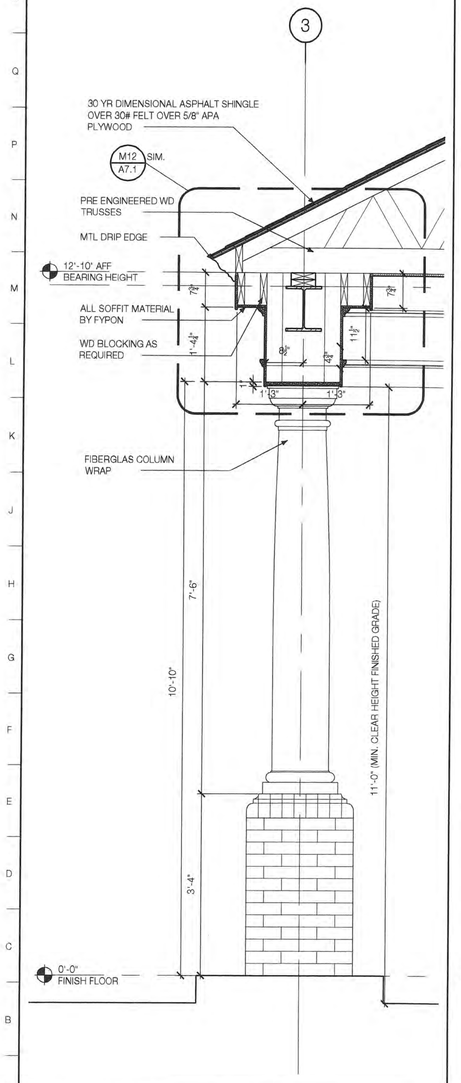
WALL SECTION



A1
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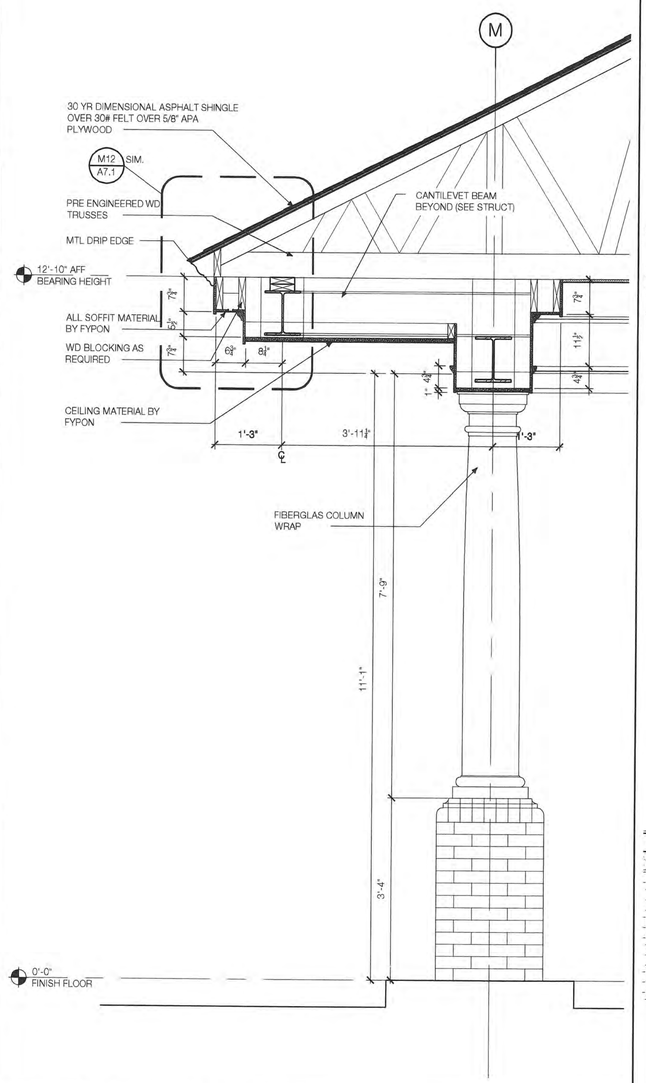
WALL SECTION



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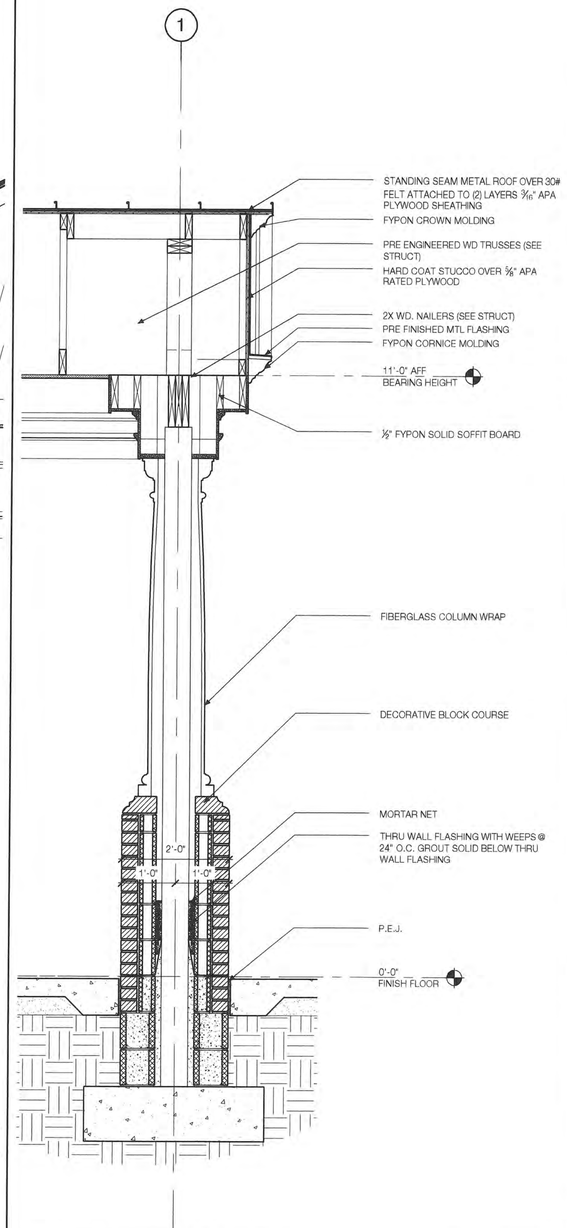
WALL SECTION



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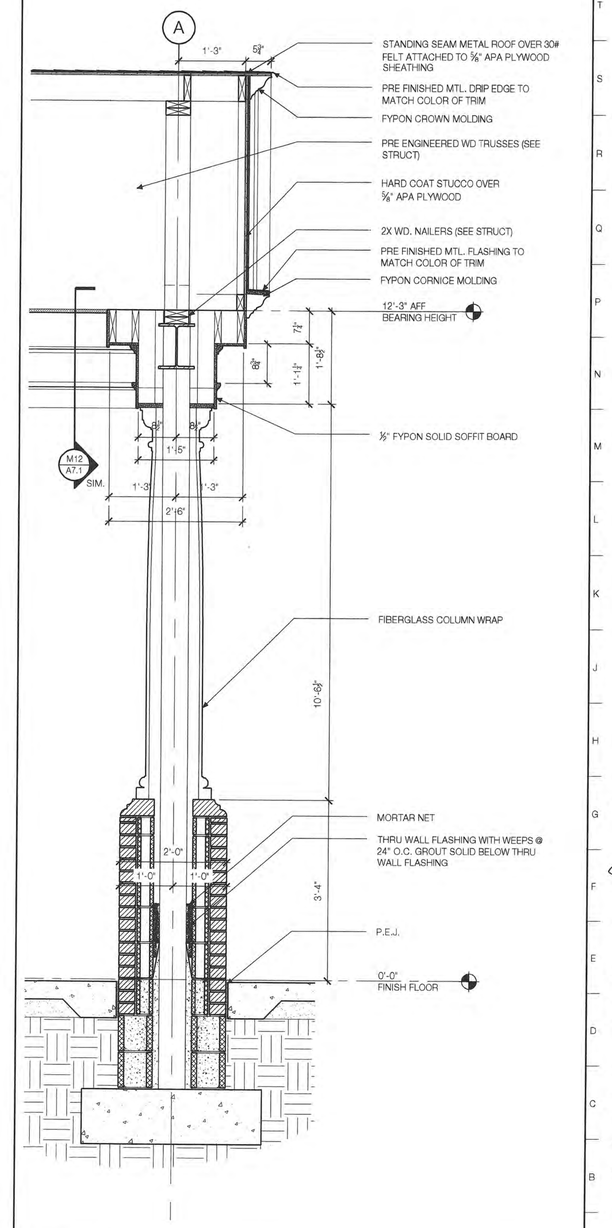
WALL SECTION



A24
SCALE:3/4" = 1'-0"
WALL SECTION

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WALL SECTIONS

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MONICA D. MASTRIANNI
CERTIFICATE NO. 017555
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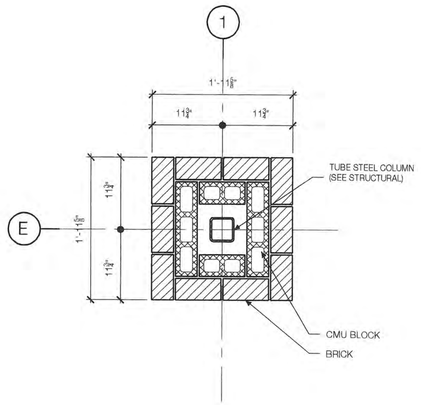
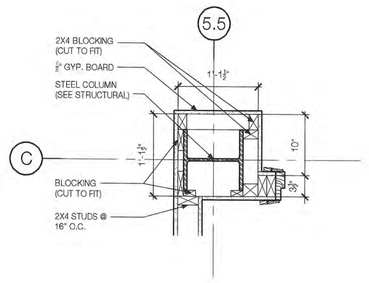
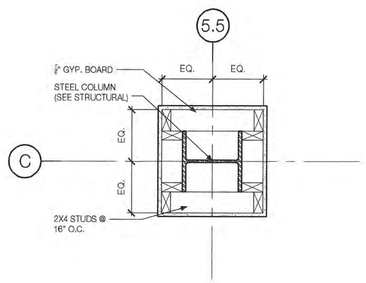


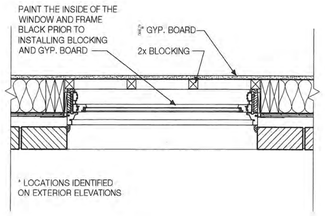
Q1 SCALE:1" = 1'-0" DETAIL @ COLUMN BASE



Q8 SCALE:1" = 1'-0" DETAIL @ INT. COLUMN

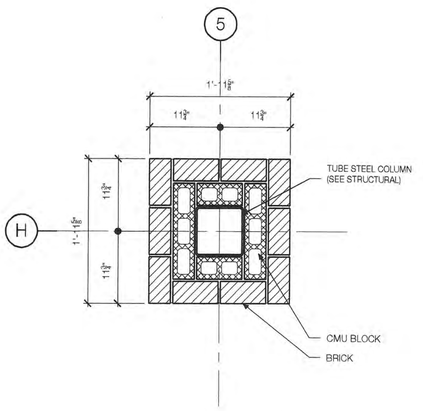


Q14 SCALE:1" = 1'-0" DETAIL @ INT. COLUMN (TYP)



Q20 SCALE:1" = 1'-0" DETAIL AT BLACKOUT WINDOWS

Q27 SCALE:1" = 1'-0" NOT USED



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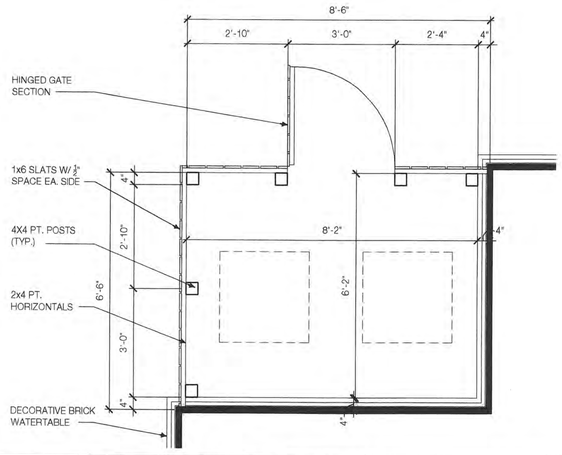
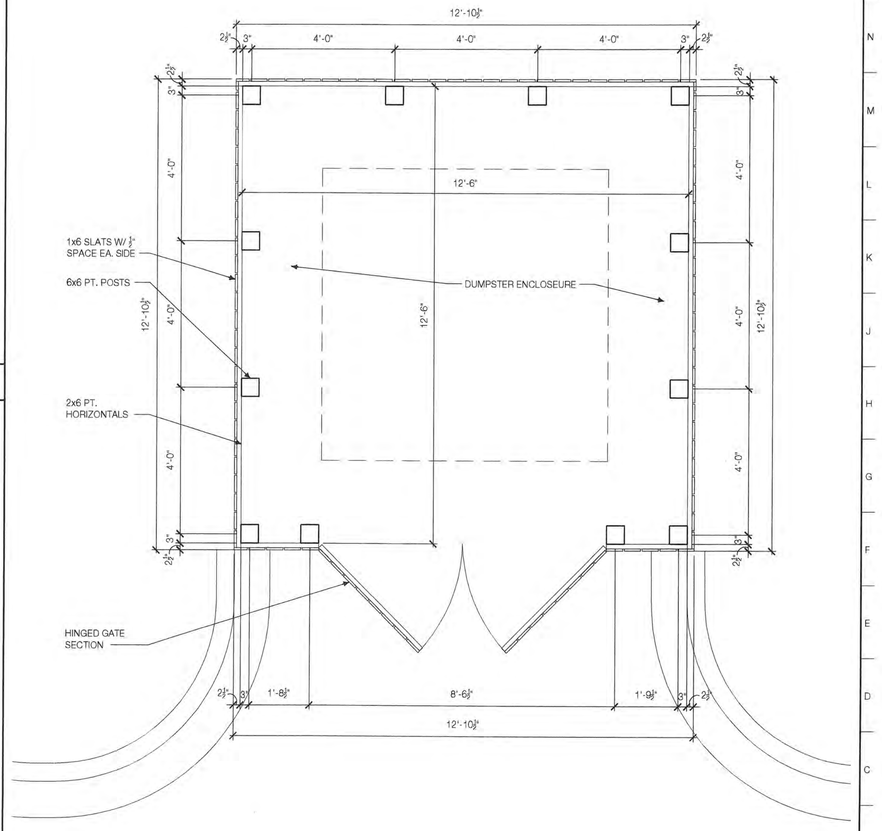
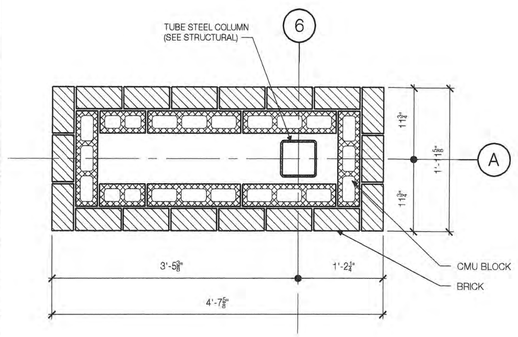


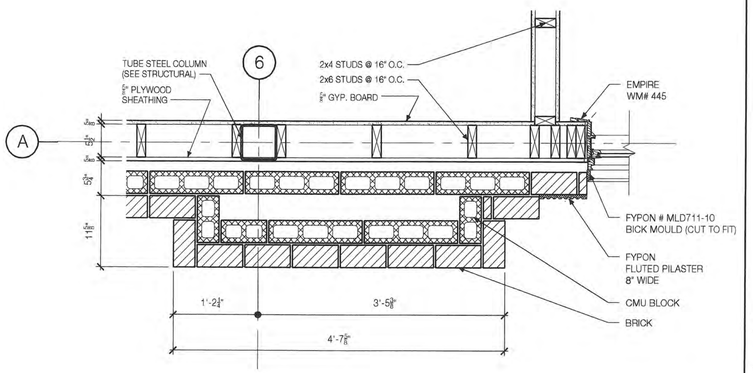
H8 SCALE:1/2" = 1'-0" DETAIL @ HVAC ENCLOSURE (TYP.)



A20 SCALE:1/2" = 1'-0" DUMPSTER ENCLOSURE



A1 SCALE:1" = 1'-0" DETAIL @ COLUMN BASE



A9 SCALE:1" = 1'-0" DETAIL @ COLUMN BASE

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PLAN DETAILS

SEAL
STATE OF GEORGIA
MONICA D. MASTRIANNI
CERTIFICATE NO. 027466
REGISTERED ARCHITECT
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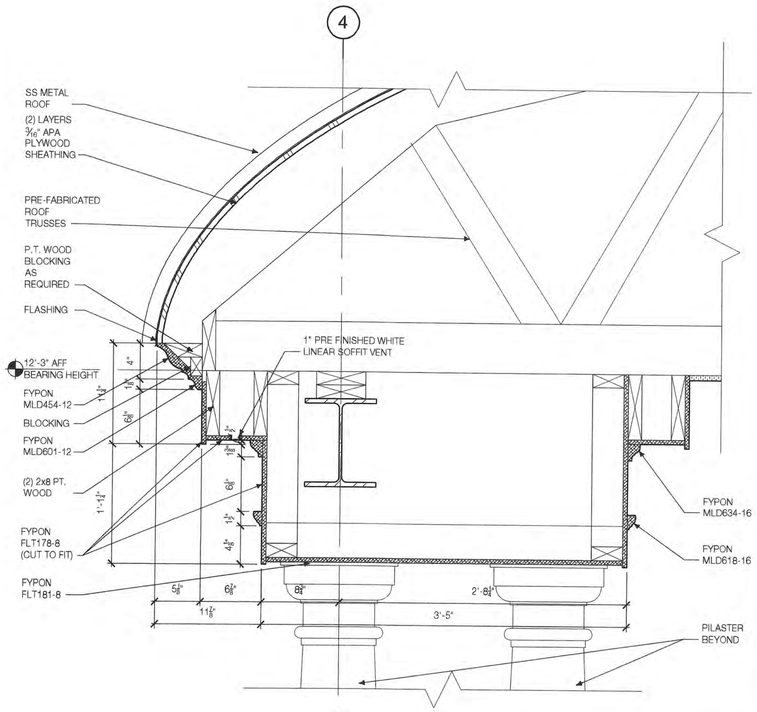
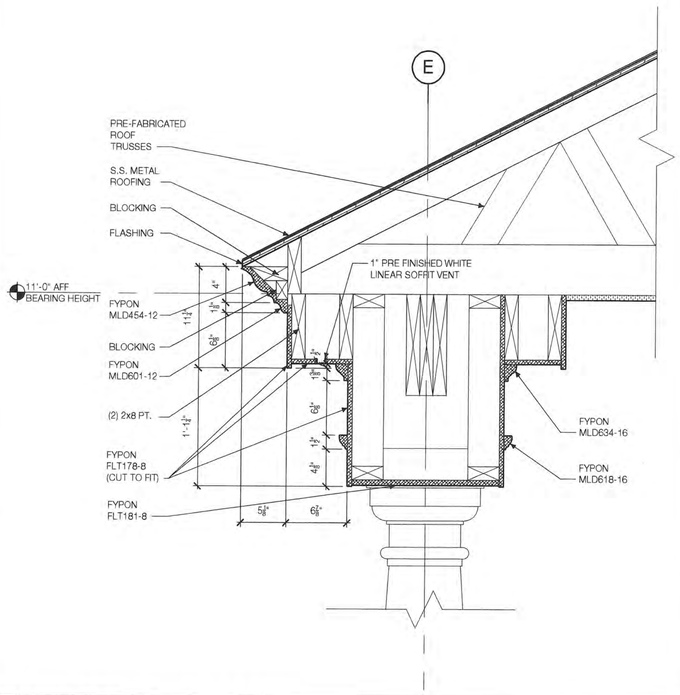
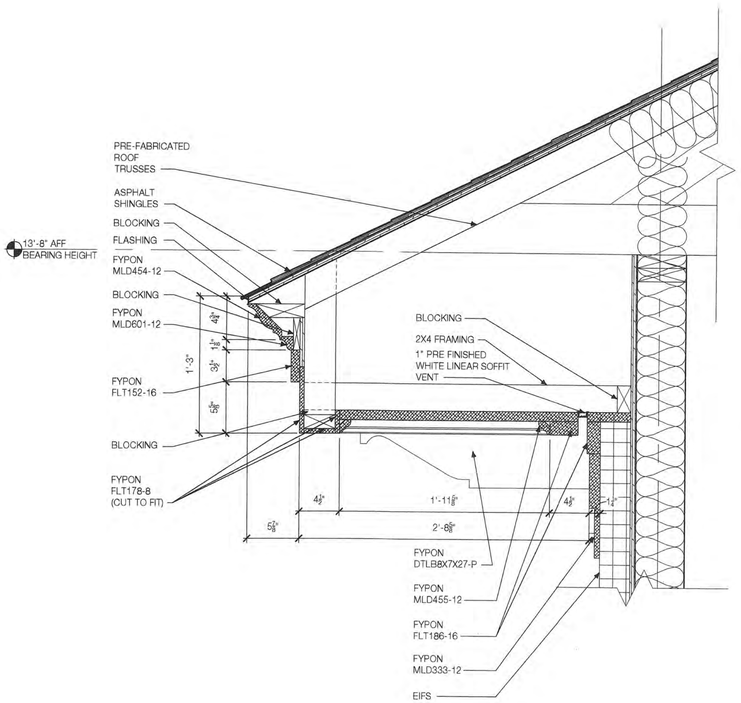


M1 SCALE:1 1/2" = 1'-0" SECTION DETAIL

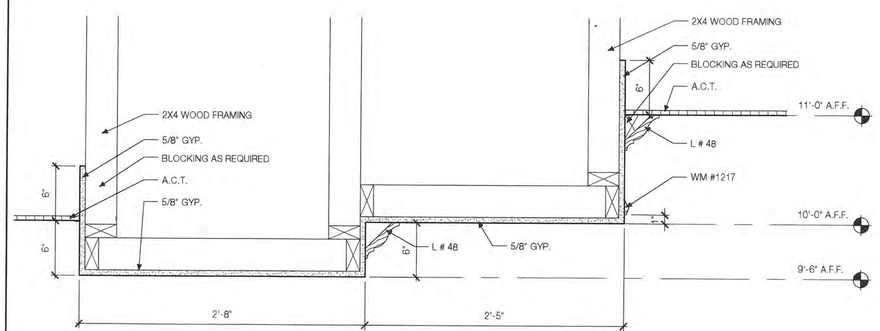


M12 SCALE:1 1/2" = 1'-0" SECTION DETAIL

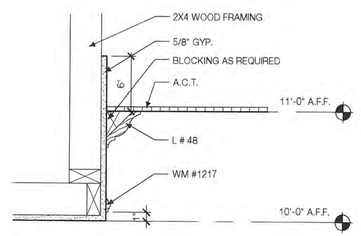
M22 SCALE:1 1/2" = 1'-0" NOT USED



A1 SCALE:1 1/2" = 1'-0" SECTION DETAIL



A12 SCALE:1 1/2" = 1'-0" SOFFIT DETAIL



A25 SCALE:1 1/2" = 1'-0" SOFFIT DETAIL

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SECTION DETAILS

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ROOM FINISH SCHEDULE

RM NO	ROOM NAME	FLOOR		WALLS								CEILING		WIN. & DOOR FRAME	WIN. SILL	REMARKS
				NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL						
		FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
101	LOBBY	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
102	OFFICE 1	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
103	OFFICE 2	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
104	FOYER	PCT	PCT	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
105	OFFICE 3	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
106	OFFICE 4	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
107	STAIR	PCT	PCT	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
108	BREAK ROOM	VCT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
109	CLOSET	VCT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
110	CLOSET	CPT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
111	CORRIDOR	CPT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
112	MENS RESTROOM	PCT	PCT	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
113	WOMENS RESTROOM	PCT	PCT	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
114	ELEC/DATA ROOM	VCT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
115	TELLER STATIONS	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
116	DRIVE UP BANKING	CPT	RB	GWB	VWC	GWB	VWC	GWB	VWC	GWB	VWC	ATC	PF	P		
117	CLOSET	CPT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
118	CLOSET	CPT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
119	VAULT	CPT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
120	ELEVATOR MECHANICAL	CONC	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
121	STAIR	CONC	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		
122	JANITOR CLOSET	VCT	RB	GWB	P	GWB	P	GWB	P	GWB	P	ATC	PF	P		

MATERIAL ABBREVIATIONS

ATC	ACOUSTICAL TILE CEILING	ES	EXPOSED STRUCTURE	SF	STOREFRONT
B	BROOM FINISH	FRP	FIBERGLASS REINF. PLASTIC	SS	STAINLESS STEEL
CMU	CONCRETE MASONRY UNIT	GWB	GYPSUM WALLBOARD	SV	SHEET VINYL
CONC	CONCRETE	LIN	LINOLEUM	VCT	VINYL COMPOSITION TILE
CPT	CARPET	P	PAINT	VWC	VINYL WALL COVERING
CS	CLR. CONC. SEAL(HI-BUILD)	PCT	PORCELAIN TILE	WBP	5/4" WOOD BASE- PAINTED
CT	CERAMIC TILE	PF	PREFINISHED	WBS	5/4" WOOD BASE- STAINED
EP	EPOXY PAINT(HIGH GLOSS)	RB	RUBBER BASE	W	WOOD

ALLOWANCES FOR BIDDING

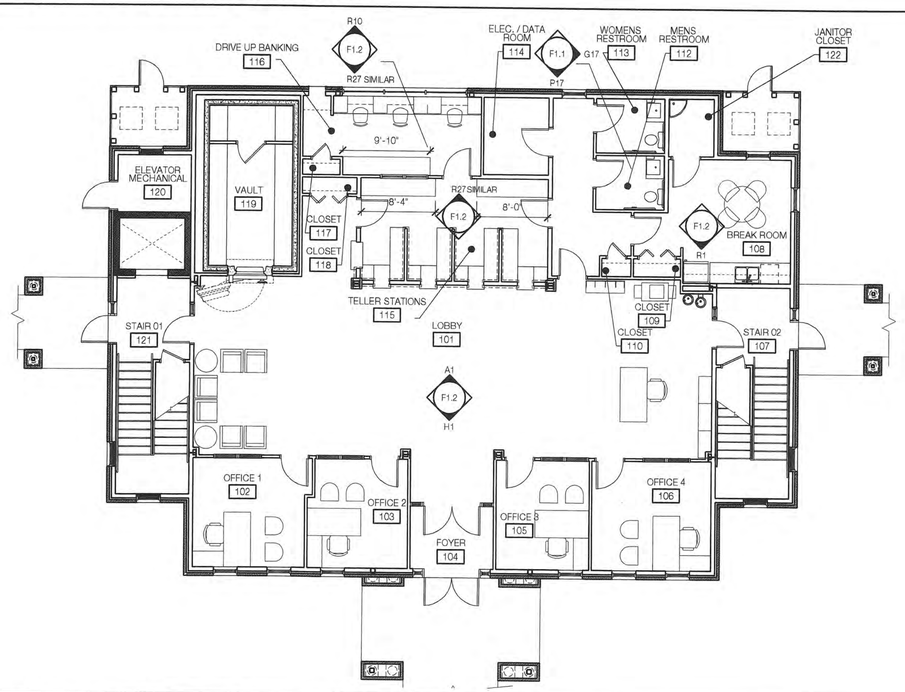
A. CARPET - $25.00/ S.Y. GLUE DOWN, INCLUDES LABOR AND MATERIALS

B. PORCELAIN CERAMIC TILE - $9.00/ S.F. INCLUDES LABOR AND MATERIALS

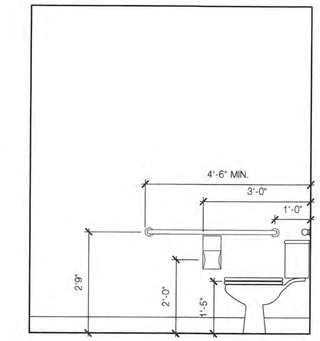
C. VINYL COMPOSITION TILE - $3.50/ S.F. INCLUDES LABOR AND MATERIALS

D. VINYL WALL COVERING - $40.00/ROLL INCLUDES LABOR AND MATERIALS

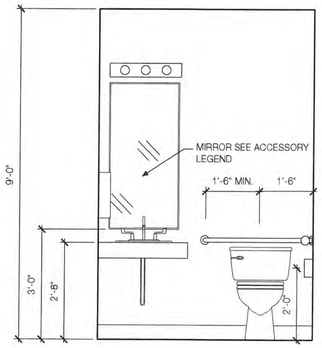
L1 SCALE: 1/8" = 1'-0" — FIRST FLOOR FINISH SCHEDULE



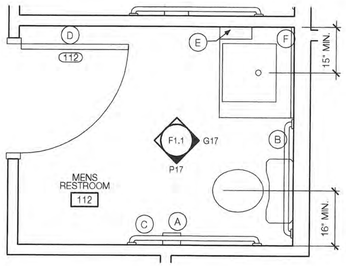
A1 SCALE: 1/8" = 1'-0" — FIRST FLOOR FURNITURE PLAN



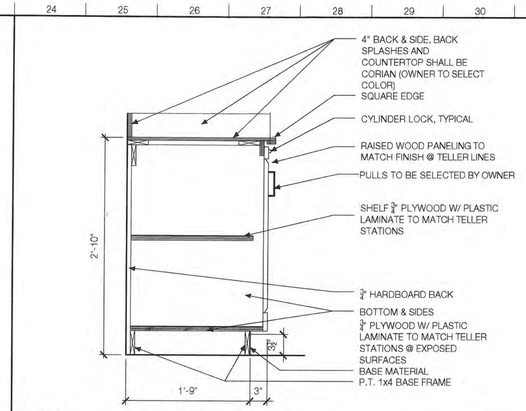
P17 SCALE: 1/2"=1'-0" — ELEVATION @ RESTROOM (TYP.)



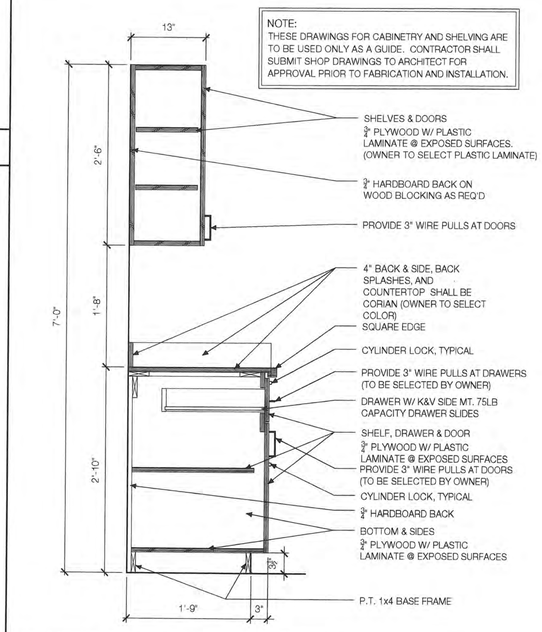
G17 SCALE: 1/2"=1'-0" — ELEVATION @ RESTROOM (TYP.)



A17 SCALE: 1/2" = 1'-0" — RESTROOM ENLARGED PLAN



S24 SCALE: 1"=1'-0" — CASEWORK SECTION



G24 SCALE: 1"=1'-0" — CASEWORK SECTION

ACCESSORY LEGEND

LABEL	ACCESSORY	MODEL #	MOUNTING HT.	REMARKS
A	TOILET PAPER HOLDER	B-4288	24" A.F.F. TO CENTER	ONE PER RESTROOM
B	GRAB BAR - 36"	B-6206X36	36" A.F.F. TO CENTER	
C	GRAB BAR - 42"	B-6206X42	36" A.F.F. TO CENTER	
D	COAT HOOK	B-233	48" A.F.F.	ONE ON CENTER OF EACH RESTROOM DOOR
E	PAPER TOWEL DISPENSER	B-262	4'-0" TO THE BOTTOM OF THE UNIT	
F	MIRROR	B-1652448	TOP @ 7'-0" SEE INTERIOR ELEVATIONS	CENTER MIRROR OVER SINK

NOTES

A. ALL MODEL #'S ARE BOBRICK MODEL #'S

A24 SCALE: N.T.S. — ACCESSORY LEGEND

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FIRST FLOOR FINISH SCHEDULES

SEAL
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MONICA D. MASTRIANNI
CERTIFICATE NO. 027555
REGISTERED ARCHITECT
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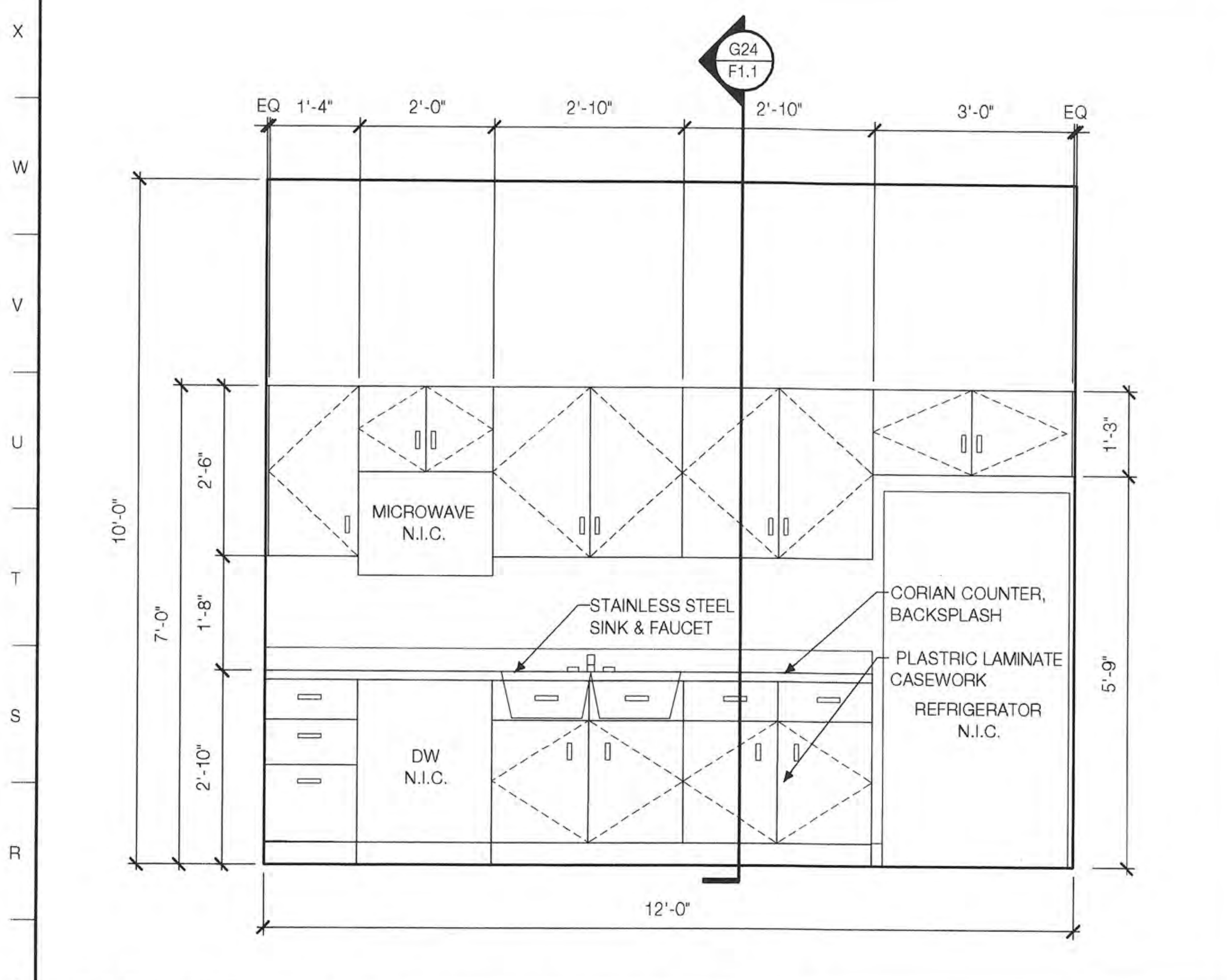
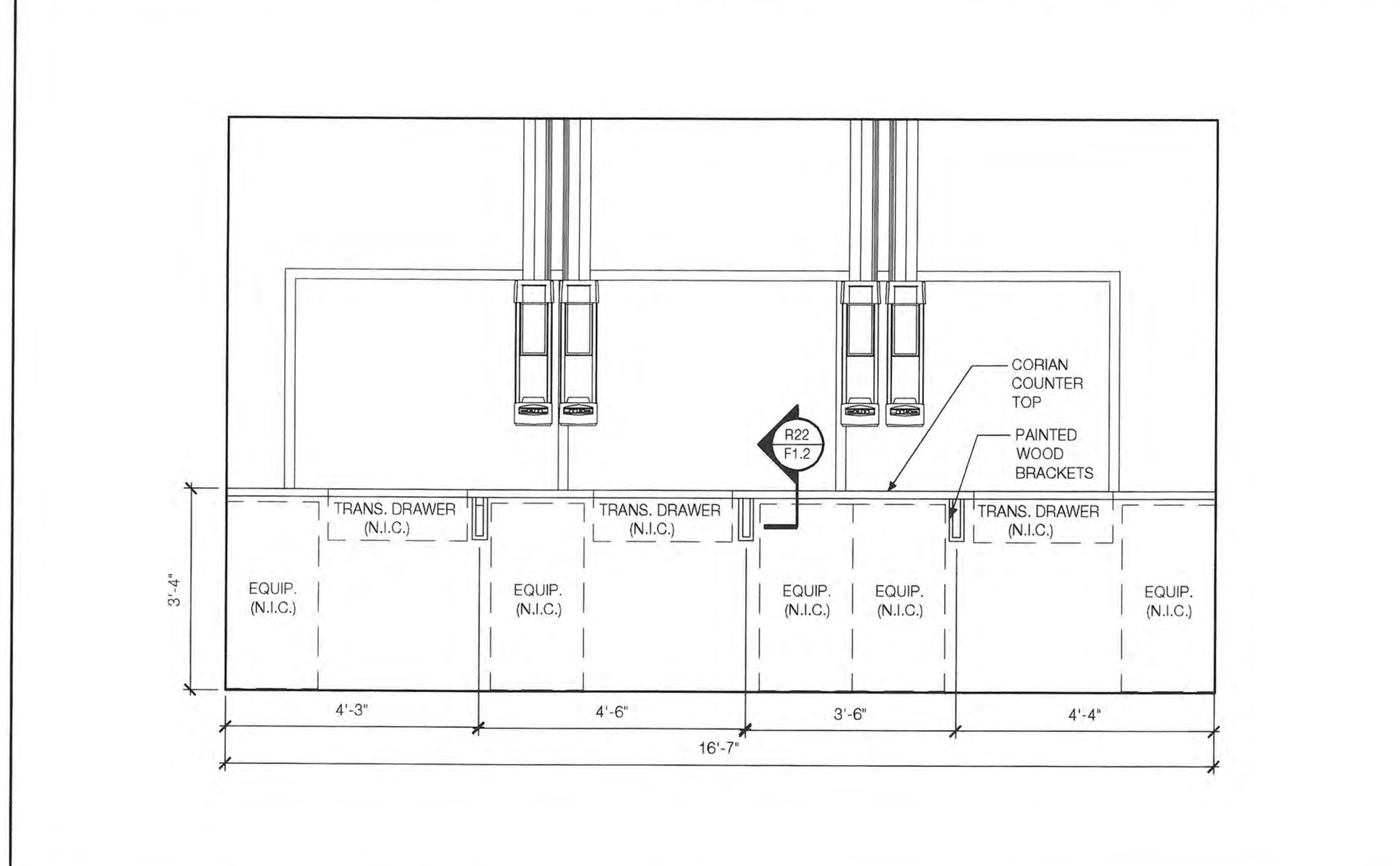
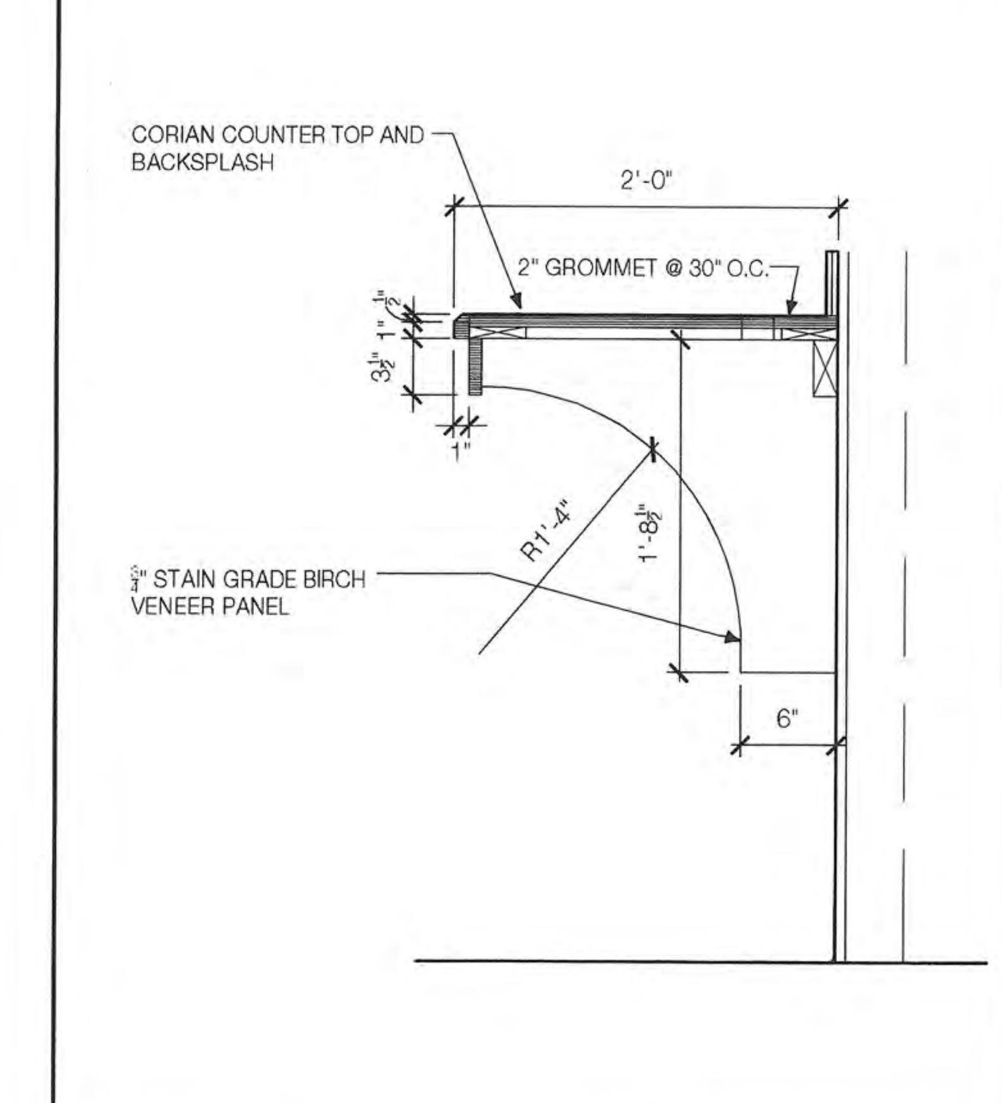


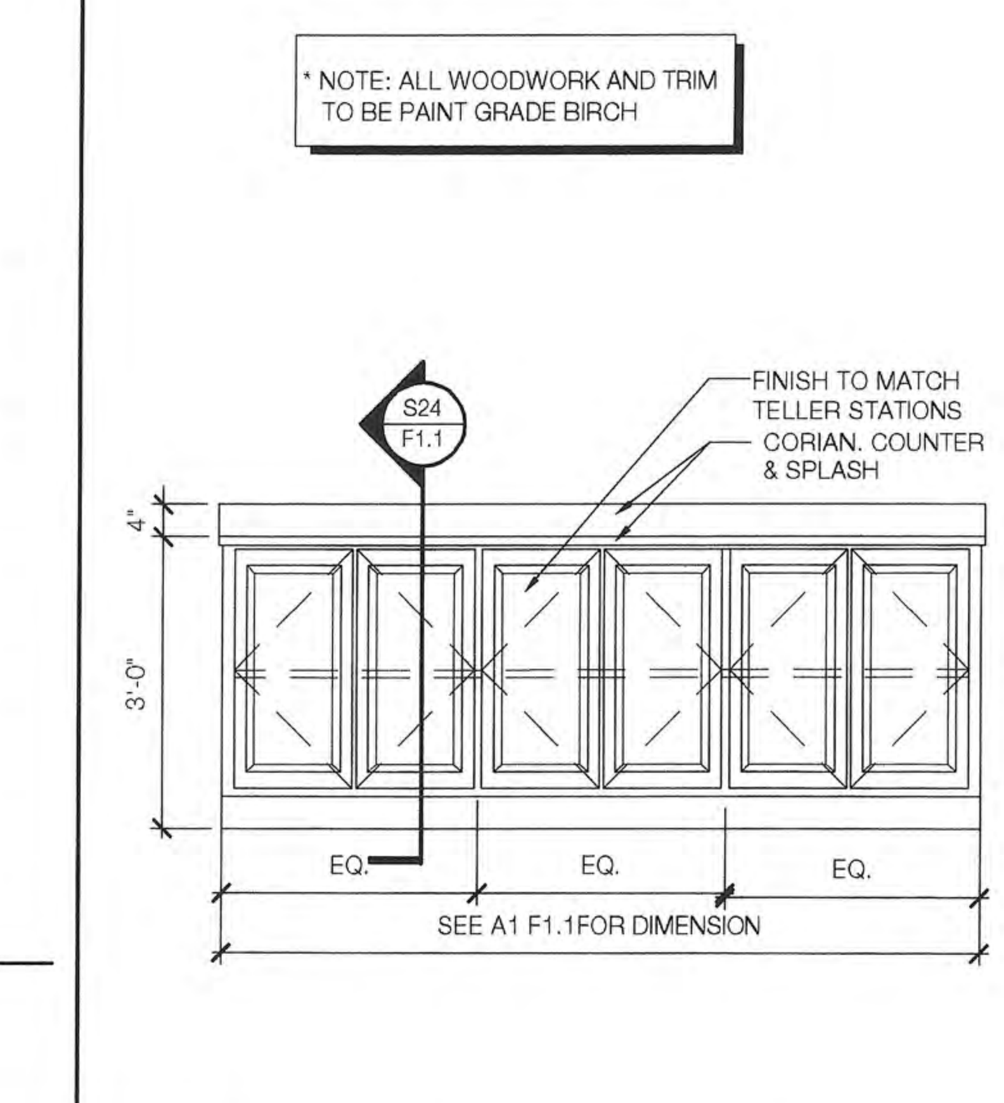
R1
SCALE: 1/2" = 1'-0"
ELEVATION @ BREAK ROOM



R10
SCALE: 1/2" = 1'-0"
ELEVATION @ DRIVE-THRU

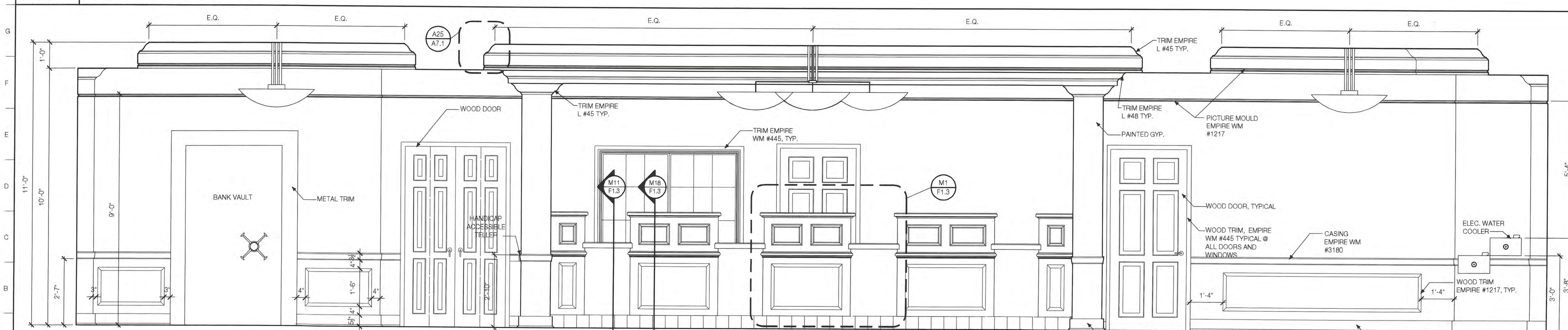


R22
SCALE: 1" = 1'-0"
SECTION COUNTER



R27
SCALE: 1/2" = 1'-0"
DETAIL CASEWORK

H1
SCALE: 1/2" = 1'-0"
ELEVATION @ LOBBY



A1
SCALE: 1/2" = 1'-0"
ELEVATION @ LOBBY

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INTERIOR ELEVATIONS

SEAL
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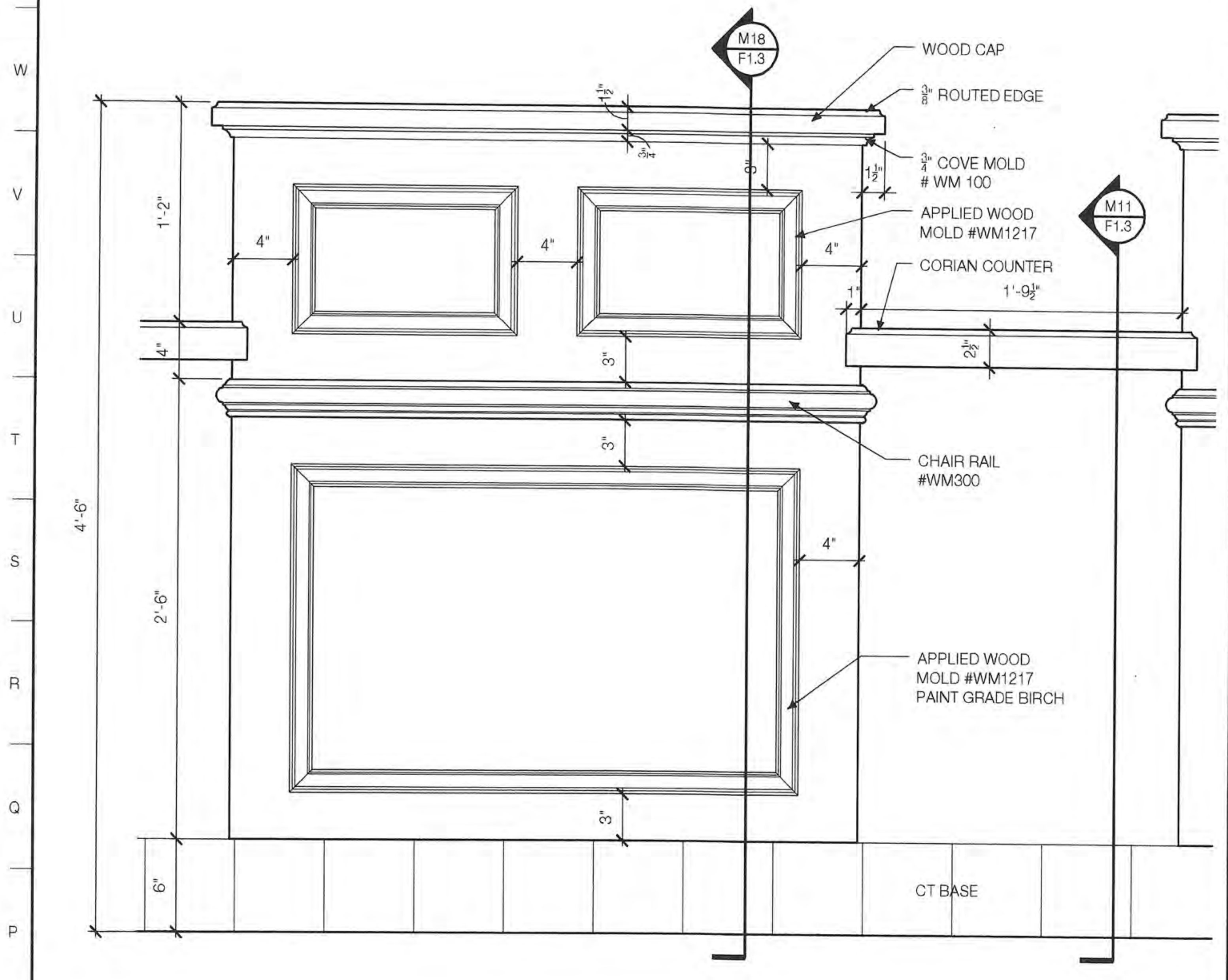
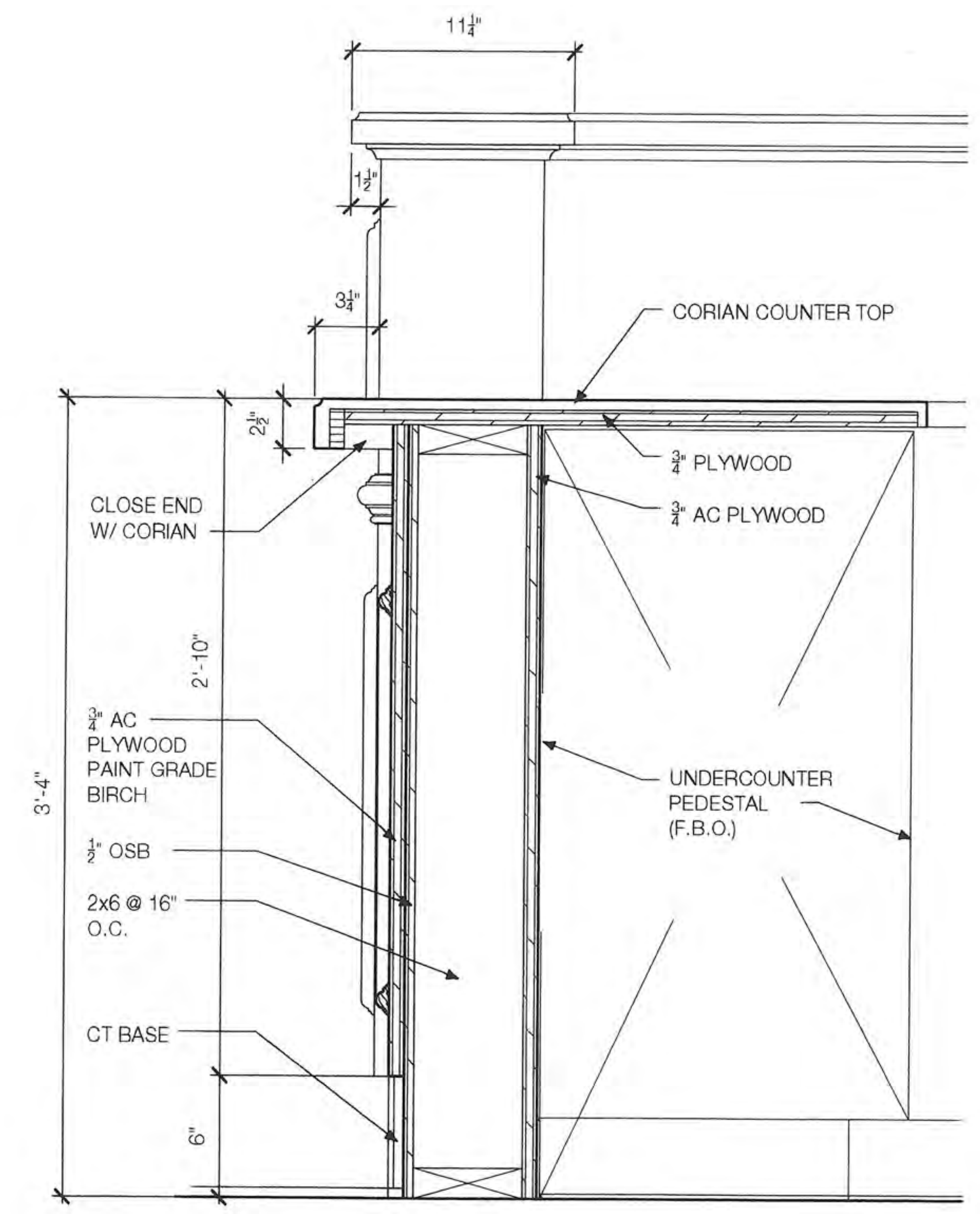
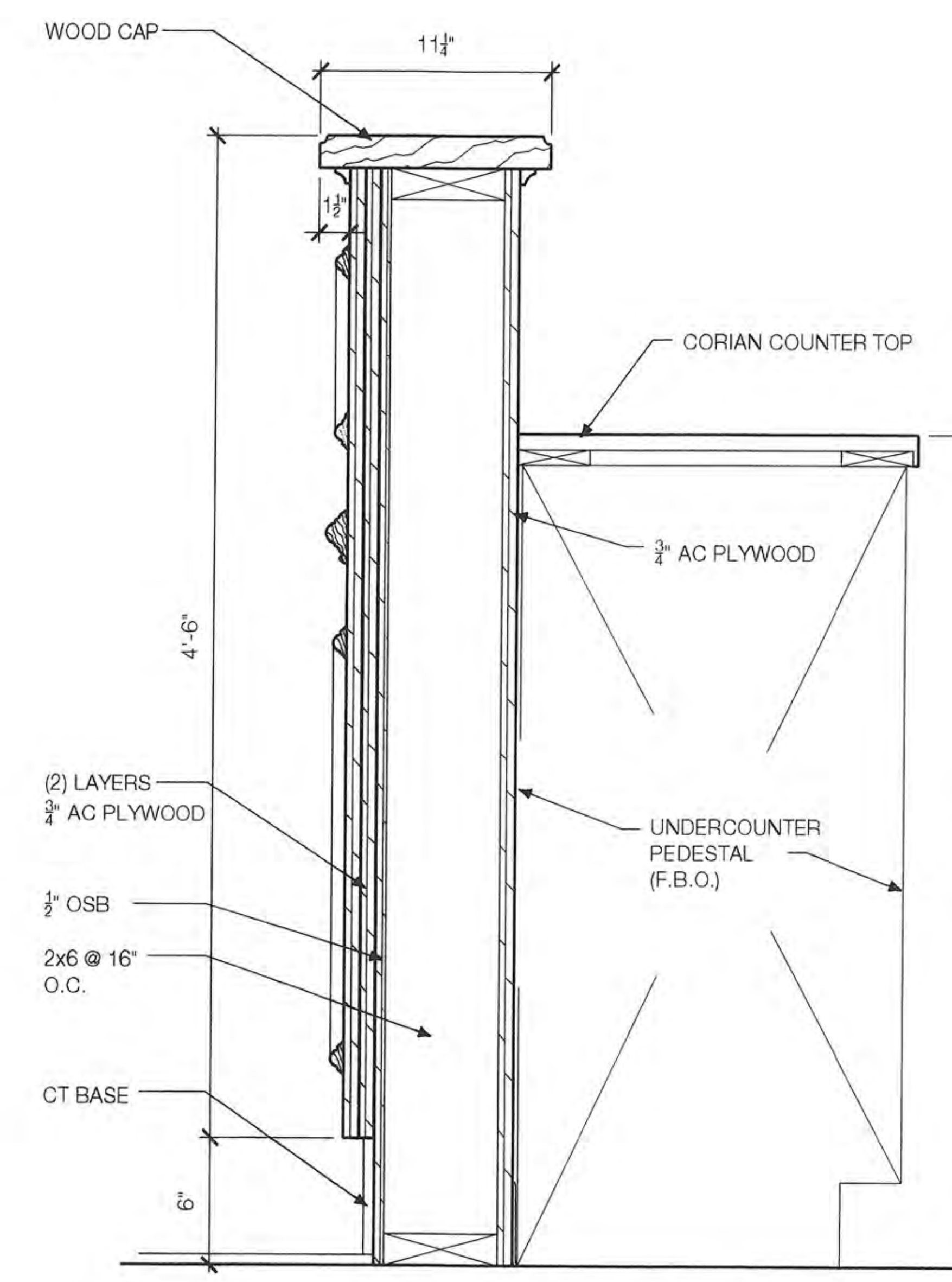
F1.2



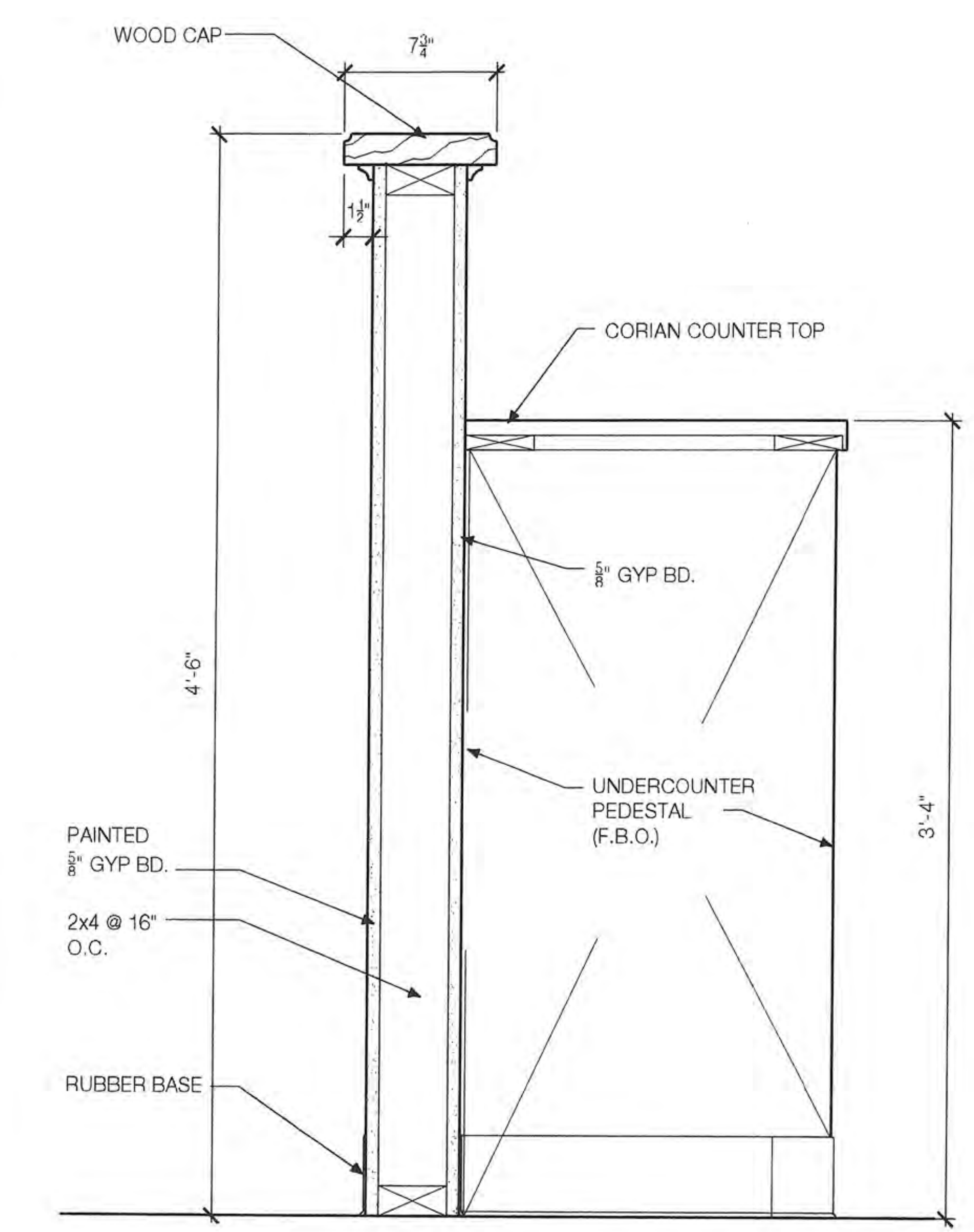
M1 SCALE: 1 1/2" = 1'-0" ELEVATION @ TELLER



M11 SCALE: 1 1/2" = 1'-0" SECTION @ TELLER



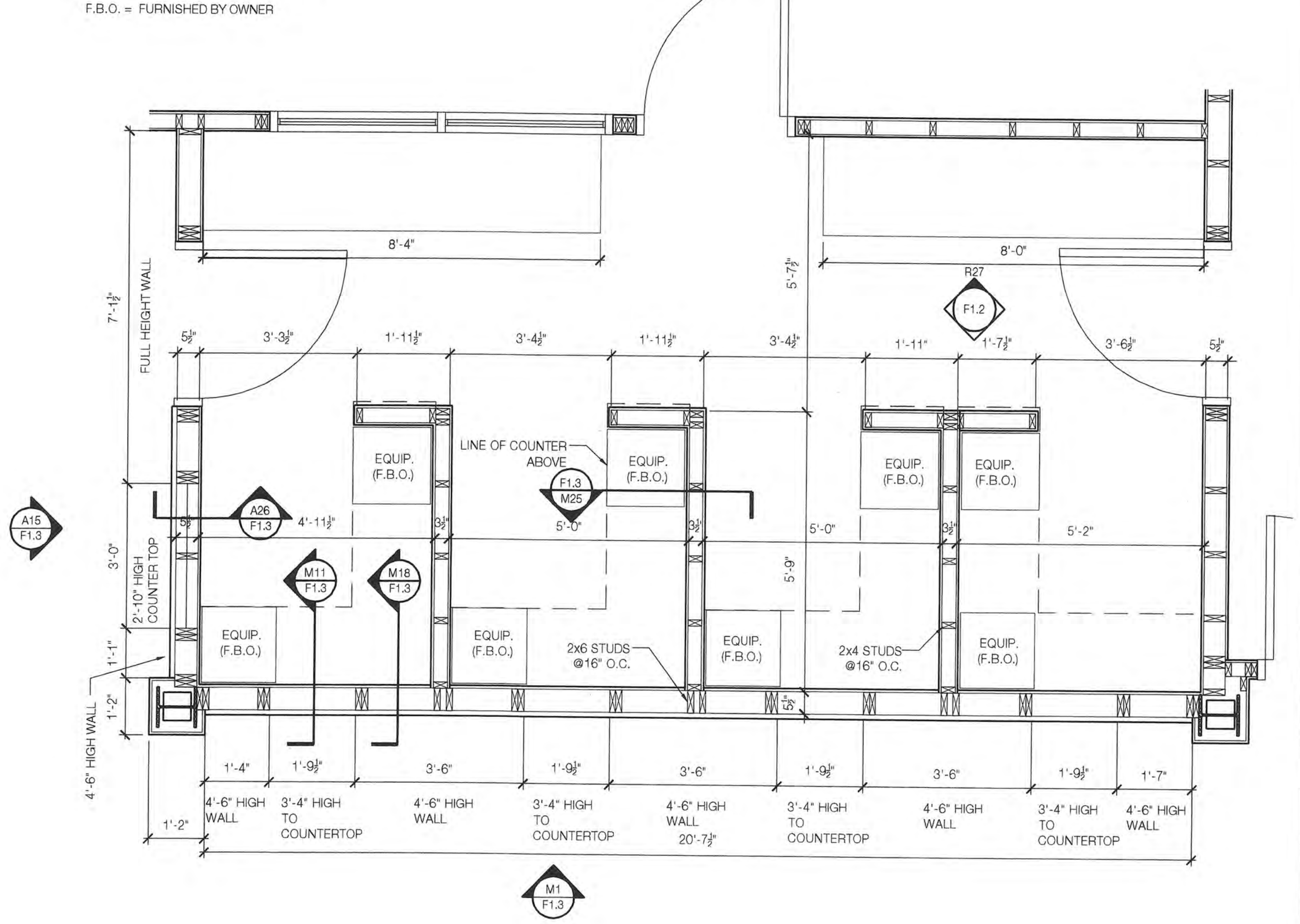
M18 SCALE: 1 1/2" = 1'-0" SECTION @ TELLER UPPER



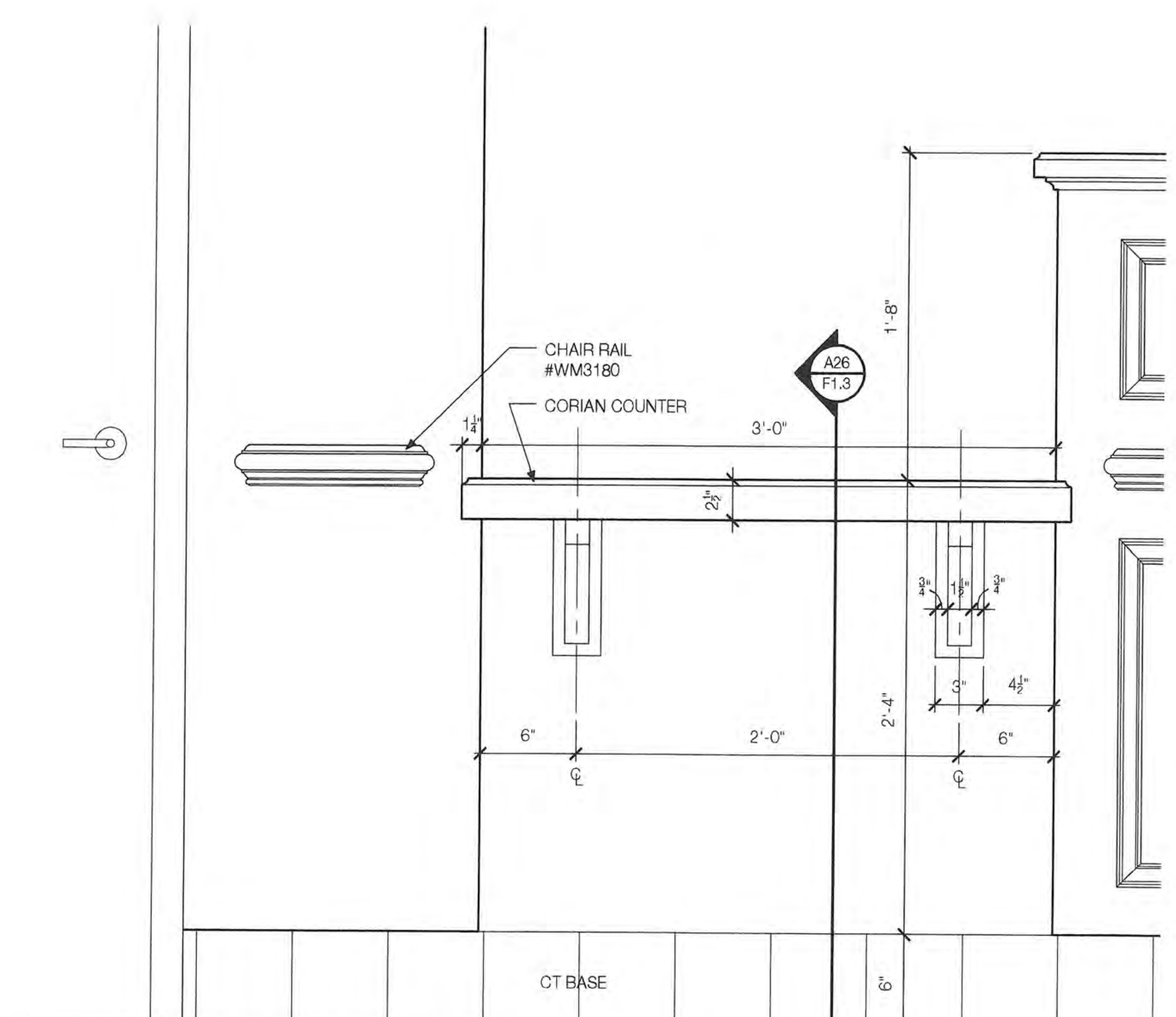
M25 SCALE: 1 1/2" = 1'-0" SECTION @ TELLER INTERMEDIATE

NOTE: ALL TELLER TRANSACTION COUNTER MILLWORK TO BE PAINTED WHITE

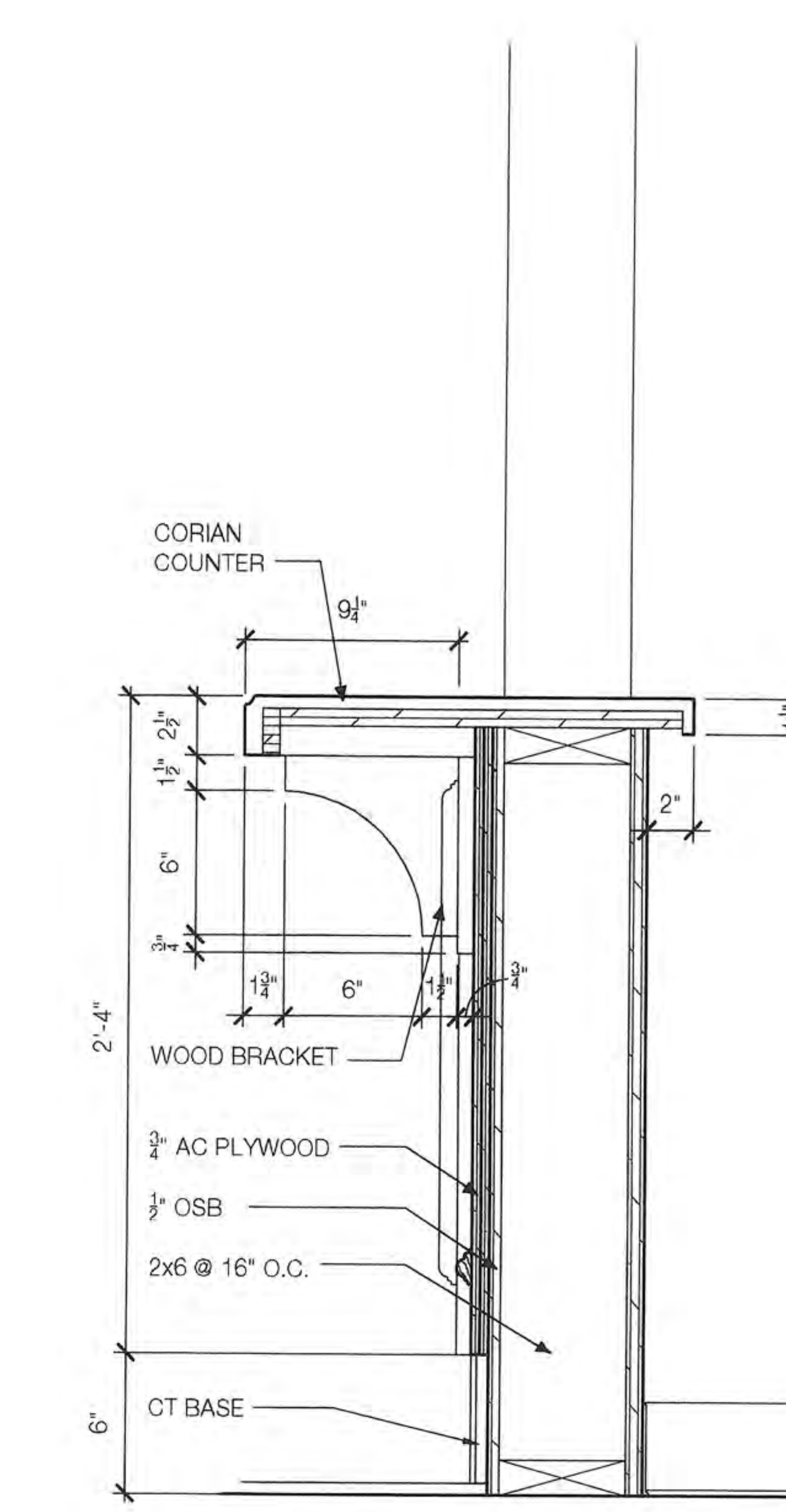
F.B.O. = FURNISHED BY OWNER



A1 SCALE: 1/2" = 1'-0" ENLARGED TELLER STATION FLOOR PLAN



A15 SCALE: 1 1/2" = 1'-0" ELEVATION @ ACCESSIBLE TELLER



A26 SCALE: 1 1/2" = 1'-0" SECT. @ ACCESS. TELLER

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ENLARGED PLAN & INTERIOR DETAILS

SEAL

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CERTIFICATE NO. ...
REGISTERED ARCHITECT

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PROJECT NO. 05.098

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F1.3

STRUCTURAL NOTES

BASIS OF DESIGN:

A. GRAVITY LOADS

1. ROOF DEAD LOADS		
SLOPED ROOFS:	15 PSF	
2. ROOF LIVE LOADS		
SLOPED ROOFS:	20 PSF	
3. 2ND FLOOR DEAD LOAD:	15 PSF	
4. 2ND FLOOR LIVE LOAD:	81 PSF	

B. SNOW LOADS (REFERENCE: ASCE 7-98)

GROUND SNOW LOAD, PG:	5 PSF	
	CT = 1.0	(TABLE 7-3)

C. WIND LOADS (REFERENCE: ASCE 7-98)

BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH		(FIGURE 6-1B)
IMPORTANCE FACTOR = 1.00		(TABLE 6-1)
EXPOSURE CATEGORY = C		(SECTION 6.5.6)
BUILDING CATEGORY = II		(TABLE 1-1)
INTERNAL PRESSURE COEFFICIENTS:	+0.18,-0.18	(TABLE 6-7)

D. SEISMIC LOADS (REFERENCE: IBC 2000)

SEISMIC USE GROUP = I	(SECTION 1616.2)
SDS = 0.375 SD1 = 0.191	
SITE CLASSIFICATION = D	(TABLE 1615.11)
BASIC SEISMIC-FORCE-RESISTING SYSTEM	
LONGITUDINAL: ORDINARY STEEL MOMENT FRAMES	
TRANSVERSE: SHEAR WALLS	
SEISMIC DESIGN CATEGORY = C	(TABLE 1616.3 (1)(2))
SEISMIC IMPORTANCE FACTOR = 1.00	(TABLE 1604.5)
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE	(SECTION 1617.4)

GENERAL:

1. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
3. WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION. IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
4. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.
5. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
6. COORDINATE FLOOR SLAB LAYOUT WITH ARCHITECTURAL DRAWINGS FOR EXACT LIMITS AND DEPRESSIONS FOR AREAS TO RECEIVE ARCHITECTURAL FLOOR FINISHES COORDINATE FLOOR JOINTS AT DOORS WITH ARCHITECTURAL DOOR DETAILS. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL EXTERIOR WALKS, CANOPIES, RAMPS, RAMP WALLS, AND ENTRANCE SLABS NOT DETAILED HEREIN.
8. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
9. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES.
10. THE USE OF REPRODUCTIONS OF 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 THAT MAY OCCUR HEREON.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
12. CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF BASED ON THE RECOMMENDATIONS INCLUDED IN GEOTECHNICAL REPORT PREPARED BY WHITAKER LABORATORY, INC. REPORT NO. 7-11-06-55 DATED 7/10/06. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
2. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' O.C. IN WALL FOOTINGS AND THICKENED SLABS TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED.
3. ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 98% ASTM D1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS. UNLESS REQUIRED OTHERWISE BY SPECIFICATIONS, PROVIDE ONE COMPACTION TEST AT EACH COLUMN FOOTING EXCAVATION AND EVERY 50 FEET ON CENTER IN WALL FOOTINGS.
4. ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE.
5. ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
6. ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
7. WHERE PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTINGS TO A DEPTH OF 2 FT. BELOW BOTTOM OF WALL FOOTINGS, STEP WALL FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON TYPICAL DETAIL HEREIN UNLESS OTHERWISE SPECIFIED. COORDINATE LOCATIONS, SIZES, AND INVERTS WITH PLUMBING DRAWINGS.
8. PROVIDE 1/4" PREMOLDED EXPANSION JOINT FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL WALL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.
9. WHERE VERTICAL STEPS IN WALL FOOTINGS SHOWN ON FOUNDATION PLAN, THEY SHALL BE A MAXIMUM 2'-0" HIGH SPACED NO CLOSE THAN 4'-0" O.C.
10. CONSTRUCTION JOINTS IN WALL FOOTINGS SHALL BE FORMED VERTICALLY WITH MINIMUM 2'-0" LAP HORIZONTAL REINFORCING.
11. WHERE FINISHED GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING AT TOP OF WALL TO PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILLING, COMPACTION, FLOOR SLABS, WALLS, AND FRAMING AT NEXT LEVEL IS COMPLETED.

STEEL FRAMING:

1. ALL WIDE FLANGE STEEL SHAPES INCLUDING WT'S SHALL BE FABRICATED USING ASTM A992 GRADE 50 STRUCTURAL STEEL MATERIAL. ALL OTHER SHAPES, PLATES, BARS, ETC., SHALL BE ASTM A36 OR AS INDICATED IN SPECIFICATIONS.
2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (MIN.) ASTM A325X HIGH STRENGTH BOLTS WITH LOAD INDICATOR WASHERS OR LOAD INDICATOR BOLTS INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. STEEL FRAMING, INCLUDING BOLTED AND WELDED CONNECTIONS, BRACING, AND ANCHORAGES SHALL BE COMPLETE AND PLUMB PRIOR TO PLACEMENT OF DECKS.
4. TOP OF STEEL ELEVATIONS SHOWN ON FRAMING PLANS ARE MEASURED FROM FINISHED FIRST FLOOR UNLESS NOTED.
5. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" OF AISC 9TH EDITION.
6. ALL FABRICATIONS SHALL COMPLY WITH "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS, AS PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
7. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT ALL STEEL REQUIRED ON THIS PROJECT. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STRUCTURAL STEEL FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS INCLUDING MISCELLANEOUS ANGLE FRAMING, BRACING, ETC.
8. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT PRIOR REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.
10. NO SHOP SPLICE OR OTHER CONNECTION WILL BE PERMITTED UNLESS THAT SPLICE OR CONNECTION IS SHOWN ON THE SHOP DRAWINGS AND REVIEWED BY THE ENGINEER.
11. ALL FASTENERS SHALL CONSIST OF ONE BOLT,ONE LOAD INDICATOR WASHER, ONE HARDENED WASHER, AND ONE NUT. NO SLOTTED HOLES OR ARE ALLOWED UNLESS INDICATED ON SECTIONS AND DETAILS.
12. AFTER ALL FIELD WELDING IS COMPLETED, WELDS SHALL BE CLEANED OF ALL WELDING SPOILS AND RE-PRIMED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
13. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. PROOF OF CERTIFICATION FOR EACH WELDER PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE. ALL WELDERS SHALL HAVE BEEN CERTIFIED WITHIN THE PREVIOUS 12 MONTHS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.

BUILDING PAD PREPARATION NOTES

1. PRIOR TO CONSTRUCTION, THE BUILDING AREA, PLUS AT LEAST 10 FEET ON EACH SIDE, SHALL BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS. PROVIDE SITE DRAINAGE DURING THIS OPERATION TO PREVENT PONDING OF STORM WATER. COORDINATE WITH CIVIL DRAWINGS. STRIPPING SHALL INCLUDE TOPSOIL, ORGANICS, ROOT-MAT AND OTHER SURFACE MATERIALS ACROSS THE BUILDING PAD.
2. STUMP HOLES AND OTHER DEPRESSIONS SHALL BE CLEARED OF LOOSE MATERIAL AND DEBRIS, AND SHALL BE BACKFILLED WITH APPROVED FILL. BACKFILL SHALL BE PLACED IN MAXIMUM SIX-INCH THICK LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
3. UTILITIES THAT UNDERLIE THE PAD SHALL BE RELOCATED AND TRENCHES BACKFILLED WITH APPROVED SOIL. ALL BACKFILL SHALL BE PLACED IN MAXIMUM SIX-INCH LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
4. PRIOR TO FILL PLACEMENT, THE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID, PROVIDING A MAT OF CLEAN SAND,UP TO 24" THICK, ON THE SUBGRADE PRIOR TO PROOFROLLING, IN ORDER TO PROVIDE SUFFICIENT STABILITY. ANY UNSTABLE AREAS SHALL THEN BE INVESTIGATED BY THE CONTRACTOR TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOILS, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREAS SHALL BE UNDERCUT TO FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX-INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE STABLE SOIL, THE AREA SHALL BE DRAINED AND COMPACTED TO 95% DENSITY.
5. FILL REQUIRED TO LEVEL OR RAISE THE SITE SHALL BE PLACED IN 8 TO 10 INCH THICK, LOOSE LIFTS AND COMPACTED BY CONVENTIONAL COMPACTION EQUIPMENT TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
6. ALL FILL SHALL CONSIST OF CLEAN, FREE-DRAINING GRANULAR SOILS, FREE OF ROOTS, CLAY LUMPS, ORGANICS AND OTHER DEBRIS. SOILS CLASSIFIED AS SW, SP, SM, OR SM-SP WITH A MAXIMUM OF 15% PASSING A #200 SIEVE ARE ACCEPTABLE. SOILS WITH THE MINUS #200 FRACTION CLASSIFIED AS MH, OR CH WILL BE REJECTED. ADDITIONALLY, SOILS CLASSIFIED AS CL WITH A MAXIMUM PLASTICITY INDEX OF 25 AND A MAXIMUM LIQUID LIMIT OF 40 WILL BE ACCEPTABLE FOR USE ABOVE THE GROUND WATER TABLE. SOILS CLASSIFIED AS SC OR CL, EXHIBITING MOISTURE SENSITIVITY, OR SOILS WITH EXCESSIVE CLAY CONTENT, OR EXCESSIVE MOISTURE SHALL NOT BE USED.

STEEL COLUMNS:

1. STEEL COLUMN BASES ARE DESIGNED AS "UN-RESTRAINED"; THEREFORE COLUMNS MUST BE KEPT BRACED UNTIL ALL HORIZONTAL FRAMING HAS BEEN INSTALLED.
2. COLUMN ANCHOR RODS SHALL NOT BE REPAIRED, REPLACED, OR MODIFIED BY THE CONTRACTOR WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
3. WHERE JOISTS ARE SHOWN AT COLUMN LINES, JOISTS BETWEEN COLUMN LINES SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.
4. UNLESS NOTED OTHERWISE, IF A BEAM IS DISCONTINUOUS AT A COLUMN, BEAM SHALL BE CONNECTED TO THE FACE OF THE COLUMN RATHER THAN ON TOP OF THE COLUMN.
5. UNLESS NOTED OTHERWISE, WHERE BEAMS ARE NOT CONTINUOUS OVER TUBE OR PIPE COLUMNS, PROVIDE 3/8" THICK CLOSURE PLATE ON TOP OF TUBE OR PIPE COLUMNS.
6. UNLESS NOTED OTHERWISE, AT CONNECTION OF BEAMS TO TUBE COLUMNS, PROVIDE PLATE KNIFED THROUGH THE COLUMN AND/OR CONNECT WITH PIECE OF "WT" MEMBER.

TIMBER FRAMING:

1. THE LOCATION, NUMBER, AND DIMENSIONS OF TIMBER FRAMING ARE DESIGNED TO SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC., SHALL BE DETERMINED FROM THE ARCHITECTURAL DETAILS.
2. SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE, SECTIONS, HEADER AND LINTEL LOCATIONS AND ALL NON-STRUCTURAL FRAMING AND TRIM.
3. ALL TIMBER FRAMING MATERIAL SHALL BE SURFACE DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT.
4. ALL EXTERIOR STUD AND WALL FRAMING SHALL BE EITHER OF THE FOLLOWING:
    - A. NO. 2 GRADE OR BETTER SOUTHERN YELLOW PINE (SYP)
    - B. NO. 2 GRADE OR BETTER SPRUCE PINE FUR (SPF)
5. ALL JOIST, RAFTER AND MISCELLANEOUS FRAMING SHALL BE SYP NO. 2 GRADE OR BETTER.
6. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA SPECIFICATIONS.
7. ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE IBC 2000 BUILDING CODE.
8. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
9. PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS DETAILED OTHERWISE.
10. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
11. PREMANUFACTURED(MICRO-LAM OR PARALLAM) HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUS-JOIST" CORPORATION OR APPROVED EQUAL. DO NOT CUT OR NOTCH MICRO-LAM OR PARALLAM MATERIAL WITHOUT THE ENGINEER'S APPROVAL.
12. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS, AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. UNLESS OTHERWISE NOTED, ALL CONNECTORS SHALL BE HOT-DIPPED GALVANIZED (COATING G60).
13. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED REQUIREMENTS OF IBC 2000, SECTIONS 2308.8.2 AND 2308.9.10.
14. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS FRAMING AND CONNECTION HARDWARE SHALL BE HOT-DIPPED GALVANIZED.
15. ALL BOLTS SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A307.
16. ALL ROOF DECKING SHALL BE 5/8" THICK APA RATED PLYWOOD. SECURE TO FRAMING PER SCHEDULE HEREIN OR AS SPECIFIED OTHERWISE.
17. ALL FLOOR DECKING SHALL BE 3/4" THICK APA RATED PLYWOOD GLUED AND NAILED TO SUPPORTS PER SCHEDULE HEREIN OR AS SPECIFIED OTHERWISE.
18. WHERE FLOOR JOISTS SPANS ARE 8'-0" OR GREATER, PROVIDE SOLID BLOCKING AT MIDSPAN. BLOCKING SHALL BE SAME SIZE AS JOISTS.

PRE-ENGINEERED TIMBER ROOF TRUSSES:

1. ALL TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED TO SUPPORT THE MINIMUM LOADS LISTED IN THE DESIGN CRITERIA HEREIN.
2. AT EACH TRUSS BEARING LOCATION, PROVIDE GALVANIZED METAL HURRICANE CLIPS SELECTED FROM SCHEDULE HEREIN. CLIPS SELECTED SHALL BE BASED ON CALCULATED WIND UPLIFT REACTIONS INDICATED ON TRUSS MANUFACTURER SHOP DRAWINGS.
3. INSTALL TEMPORARY AND PERMANENT VERTICAL BRACING OR OTHER BRACES AS RECOMMENDED BY THE TRUSS MANUFACTURER AND/OR APPLICABLE REFERENCES. THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION H1B-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECT AT WOOD TRUSSES, SHALL BE THE MINIMUM REQUIREMENT.
4. SHOP DRAWINGS, CALCULATIONS, ETC., TO BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL PROVIDE ERECTION LAYOUT FOR TRUSSES, OUTRIGGERS, HEADERS, BRACING, ETC. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR LOCATIONS OF SUPPORTS.
5. CALCULATIONS AND DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
6. TRUSS WEB TO CHORD CONNECTIONS SHALL BE MADE WITH APPROVED GALVANIZED STEEL TRUSS CONNECTION PLATES MEETING ALL APPLICABLE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE OF THE LATEST ADOPTION.
7. MAXIMUM TRUSS LIVE LOAD DEFLECTIONS SHALL NOT EXCEED L/240. TRUSS BRIDGING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND APPLICABLE REFERENCES NOTED HEREIN.
8. TRUSSES ARE NOT DESIGNED TO SUPPORT CONCENTRATED LOADS DUE TO ANY MECHANICAL ROOF-TOP UNITS OR OTHER SUSPENDED TYPE UNITS UNLESS SPECIFICALLY SHOWN ON CONTRACT DRAWINGS.
9. TRUSS SHOP DRAWINGS INCLUDING LATERAL BRACING DETAILS SHALL BE AVAILABLE ON THE JOBSITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN RECEIVED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
10. TRUSSES ARE TO BE STORED OFF THE GROUND IN A MANNER WHICH WILL NOT DAMAGE OR WARP THE TRUSSES PRIOR TO ERECTION.
11. FIELD REPAIR OF DAMAGED TRUSSES MUST BE APPROVED IN WRITING BASED ON FIELD REPAIR SKETCHES PREPARED BY THE TRUSS MANUFACTURER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF ALL TRUSSES DURING CONSTRUCTION TO PREVENT RACKING AND/OR OTHER LATERAL MOVEMENT AS RECOMMENDED BY THE TRUSS MANUFACTURER SHOP DRAWING DETAILS AND APPLICABLE REFERENCES.
13. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, NOR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
14. WHERE SCISSOR TYPE TRUSSES ARE USED, REFER TO NOTES HEREIN FOR ADDITIONAL REQUIREMENTS.
15. ALL HARDWARE REQUIRED FOR CONNECTIONS BETWEEN PRE-ENGINEERED TRUSS COMPONENTS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER.
16. TRUSSES SHALL BE DESIGNED SUCH THAT THE MINIMUM SPACING OF BOTTOM CHORD BRACES IS 6'-0" UNLESS A RIGID CEILING IS SHOWN ON ARCHITECTURAL DRAWINGS.
17. PROVIDE 2X FRAMING BETWEEN TRUSS TOP CHORDS AT ALL RIDGE/VALLEY LOCATIONS WHERE TRUSS MEMBER DOES NOT OCCUR.

PRE-ENGINEERED TIMBER FLOOR TRUSSES:

1. ALL FLOOR TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED TO SUPPORT THE FOLLOWING MINIMUM LOAD (UNLESS NOTED OTHERWISE HEREIN):

LIVE LOAD:	81 PSF
TOP CHORD DEAD LOAD:	10 PSF
BOT. CHORD DEAD LOAD:	5 PSF

2. ALL FLOOR TRUSSES SHALL BE SPACED AT 16" O.C.(MAXIMUM) UNLESS NOTED OTHERWISE.
3. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA. ALL FLOOR TRUSSES ARE BOTTOM CHORD BEARING UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

ELEVATOR:

1. REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR ALL ELEVATOR REQUIREMENTS FOR THIS PROJECT.
2. ALL DIMENSIONS, ELEVATIONS, CLEARANCES, ETC., REQUIRED FOR THE CONSTRUCTION OF ELEVATOR PIT AND SHAFT SHOWN ON THE CONTRACT DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.
3. ELEVATOR MANUFACTURER SHALL REVIEW THE LOCATIONS AND SIZES OF ALL SEPARATOR BEAMS, HOIST BEAMS, ETC., SHOWN IN THE CONTRACT DOCUMENTS TO VERIFY COMPLIANCE WITH EQUIPMENT SCHEDULED TO BE FURNISHED AT ELEVATOR LOCATION.
4. ELEVATOR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW IN ACCORDANCE WITH SPECIFICATIONS PRIOR TO ANY CONSTRUCTION WORK WHICH AFFECTS THE INSTALLATION OF THE ELEVATOR.

CONCRETE:

1. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS/PILE CAPS SHALL BE LOCATED ON COLUMN CENTERLINES OVER.
2. UNLESS SPECIFIED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BAR AND SMALLER:	1 ½"
#6 BAR AND LARGER:	2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
1. SLABS, WALLS, JOISTS:	
#11 BAR AND SMALLER:	3/4"
#14 AND #18 BARS:	1 ½"
2. BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS:	1 ½"

3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
4. PROVIDE DOWELS OF THE SAME SIZE AND NUMBER AS THE VERTICAL WALL AND COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED ON THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCING MARKED CONTINUOUS MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
7. PIPES OR DUCTS SHALL NOT EXCEED 1/3 SLAB TO WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS,CLIPS, OR OTHER INSERTS REQUIRED TO BE ENCASED IN CONCRETE AND FOR EXACT LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
9. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
10. DEFECTIVE AREAS IN CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.10" SHALL BE REPAIRED BY THE CONTRACTOR. THE EXTENT OF THE DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
11. NO REINFORCING SHALL BE CUT IN FIELD. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENING AS DETAILED.
12. HOOKS IN REINFORCING ARE IN ADDITION TO LINKS SHOWN.
13. UNLESS NOTED OTHERWISE, DETAILING AND FABRICATION OF REINFORCING STEEL SHALL FOLLOW ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES" (ACI 315).

SPECIAL STRUCTURAL INSPECTIONS:

A. SPECIAL INSPECTIONS

1. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2000 BUILDING CODE.
2. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OF RECORD (EOR) WHICH MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2000 SECTION 1703.1. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
4. THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER.

B. REPORTS

1. * SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
2. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
3. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.

C. REQUIRED SPECIAL INSPECTIONS

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED YES	NO	REMARKS
1704.2	INSPECTION OF FABRICATORS	X		1
1704.3	STEEL CONSTRUCTION	X		2
1704.4	CONCRETE CONSTRUCTION	X		3
1704.5	MASONRY CONSTRUCTION		X	4
1704.6	WOOD CONSTRUCTION	X		
1704.7	SOILS	X		5
1704.8	PILE FOUNDATIONS		X	
1704.9	PIER FOUNDATIONS		X	
1704.10	WALL PANELS AND VENEERS	X		
1704.11	SPRAYED FIRE-RESISTANT MATERIALS		X	
1704.12	EXTERIOR INSULATION AND FINISH SYSTEMS		X	
1704.13	SPECIAL CASES	X		
1704.14	SPECIAL INSPECTION FOR SMOKE CONTROL	X		

REMARKS:

1. WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
2. STEEL SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 1702 OF THE IBC 2000 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.3 AND TABLE 1704.3 WITH THE EXCEPTION THAT INSPECTION OF HIGH STRENGTH BOLTING MAY BE PERIODIC IN ACCORDANCE WITH IBC 2000, SECTION 1704.3.3.2.
3. CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 1702 OF THE IBC 2000 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.4 AND TABLE 1704.4.
4. MASONRY SPECIAL INSPECTION: (NOT APPLICABLE)
5. SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 1704.7.1 THRU 1704.7.3.

D. QUALITY ASSURANCE PLAN FOR SEISMIC RESISTANCE-IBC SECTION 1705

1. THIS PLAN INCLUDES PROCEDURES TO ENSURE QUALITY FOR THE SEISMIC FORCE RESISTING SYSTEM WHICH INCLUDES INTERMEDIATE STEEL MOMENT FRAMES.
2. SPECIAL INSPECTIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PORTION OF THESE NOTES.
3. TESTING, TESTING FREQUENCY, AND SUBMITTALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. SPECIAL INSPECTORS AND TESTING AGENCIES SHALL KEEP AND FURNISH REPORTS TO THE ARCHITECT AND THE BUILDING OFFICIAL THAT INDICATE THAT THE WORK INSPECTED OR TESTED WAS DONE IN CONFORMANCE TO THE CONTRACT DOCUMENTS. DISCREPANCIES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THE REPORTS SHOULD BE FURNISHED WITHIN ONE WEEK OF THE INSPECTION.

E. QUALITY ASSURANCE PLAN FOR WIND RESISTANCE-IBC SECTION 1706

1. THIS PLAN INCLUDES PROCEDURES TO ENSURE QUALITY FOR THE WIND FORCE RESISTING SYSTEM WHICH INCLUDES INTERMEDIATE STEEL MOMENT FRAMES.
2. SPECIAL INSPECTIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PORTION OF THESE NOTES.
3. TESTING, TESTING FREQUENCY, AND SUBMITTALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. SPECIAL INSPECTORS AND TESTING AGENCIES SHALL KEEP AND FURNISH REPORTS TO THE ARCHITECT AND THE BUILDING OFFICIAL THAT INDICATE THAT THE WORK INSPECTED OR TESTED WAS DONE IN CONFORMANCE TO THE CONTRACT DOCUMENTS. DISCREPANCIES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THE REPORTS SHOULD BE FURNISHED WITHIN ONE WEEK OF THE INSPECTION.

F. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1707.

G. STRUCTURAL TESTING FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1708.

H. A REPRESENTATIVE OF THE EOR SHALL PERFORM A PERIODIC VISUAL STRUCTURAL OBSERVATION IN ACCORDANCE WITH, AND WHERE REQUIRED BY, IBC SECTION 1709. SUCH OBSERVATIONS SHALL BE PERFORMED AT SIGNIFICANT STAGES OF CONSTRUCTION AND AT THE FINAL COMPLETION OF THE STRUCTURAL SYSTEMS. THE CONTRACTOR SHALL NOTIFY THE EOR TO COORDINATE THE OBSERVATION AND SHALL NOT CONCEAL ANY PORTIONS OF THE STRUCTURAL SYSTEMS (EXCLUDING FOUNDATIONS AND OTHER WALL REINFORCING) PRIOR THE EOR'S FINAL REVIEW.

A1 SCALE: 1=1 STRUCTURAL NOTES

STRUCTURAL LEGEND

SYMBOLS

— — —	FOOTING
▥	UNREINFORCED CONCRETE MASONRY
▩	REINFORCED CONCRETE MASONRY
▒	CONCRETE
▦	BOND BEAM
■ P_2, ■ P_3	REINF. MASONRY PIERS
▨	DROP SLAB TO RECEIVE FLOOR FINISH
▓	THICKENED SLAB
FJ	FLOOR JOINT
WFJ	WALL FLOOR JOINT
SJ	SAWN JOINT
——×	CONCRETE SLAB TURNDOWN
S 2" →	SLOPE (DIRECTION AND DROP)
——◓	VERTICAL STEP IN WALL FOOTING
T.O.S. 12'-6"	TOP OF STEEL ELEVATION
(96.50)	TOP OF FOOTING ELEVATION
R	ADD #4x4'-0" IN CENTERLINE OF SLAB
HSB	HIGH STRENGTH BOLT
S	JOIST BOTTOM CHORD STRUT
●	ROOF DRAIN
⊠	FRAME AROUND ROOF DECK OPENING
├◀——	BEAM TO COLUMN MOMENT CONNECTION

ABBREVIATIONS

W/	WITH
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL	CLEARANCE
FD	FLOOR DRAIN
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HAND
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
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PROJECT NO. 06076
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BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
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STRUCTURAL NOTES

SEAL
No. 19125
W. HUNTER SAUSSY, III
Not Valid Unless Signed

ISSUE DATE 07-24-2006
REVISIONS
PROJECT NO. 05.098
DRAWN BY GJH
SHEET NO.
S1.0

SECTION 03300
CAST-IN-PLACE CONCRETE

1 PART - GENERAL

1.01 WORK INCLUDED

A. PROVIDE ALL CAST-IN-PLACE CONCRETE, COMPLETE, IN PLACE, AS INDICATED ON THE DRAWINGS, SPECIFIED HEREIN, AND REQUIRED FOR THE COMPLETE INSTALLATION.

1.02 RELATED WORK

A. TESTS FOR CONCRETE MATERIALS:
   1. PORTLAND CEMENT SHALL BE SAMPLED AND TESTED TO DETERMINE THE PROPERTIES IN ACCORDANCE WITH ASTM C 150-92.
   2. AGGREGATES SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C 33-92 (NORMAL WEIGHT).

B. SUBMIT WRITTEN REPORTS TO THE ARCHITECT FOR EACH MATERIAL SAMPLED AND TESTED, PRIOR TO THE START OF WORK. PROVIDE THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF REPORT, NAME OF CONTRACTOR, NAME OF CONCRETE TESTING SERVICE, SOURCE OF CONCRETE AGGREGATES, MATERIAL MANUFACTURER AND BRAND NAME FOR MANUFACTURED MATERIALS, VALUES SPECIFIED IN THE REFERENCED SPECIFICATION FOR EACH MATERIAL, AND TEST RESULTS. INDICATE WHETHER OR NOT MATERIAL IS ACCEPTABLE FOR INTENDED USE.

C. SUPERVISION: ALL REINFORCED CONCRETE CONSTRUCTION SHALL BE PERFORMED UNDER THE PERSONAL SUPERVISION OF THE CONTRACTOR'S SUPERINTENDENT. THIS SUPERINTENDENT SHALL KEEP A RECORD OF ALL CONCRETE POURED ON THE JOB. THE RECORD SHALL SHOW IN DETAIL THE AREA POURED, THE TIME AND DATE OF THE POUR AND WEATHER CONDITIONS WHICH EXISTED AT THE TIME OF THE POUR. UPON COMPLETION OF THE WORK, THIS RECORD SHALL BE TURNED OVER TO THE ARCHITECT.

1.03 SUBMITTALS

A. GENERAL: COMPLY WITH PROVISIONS OF GENERAL CONDITIONS.

B. MANUFACTURER'S DATA; CONCRETE WORK: SUBMIT MANUFACTURER'S PRODUCT DATA WITH APPLICATION AND INSTALLATION INSTRUCTIONS FOR PROPRIETARY MATERIALS AND ITEMS, INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, WATERSTOPS, JOINT SYSTEMS, CHEMICAL FLOOR HARDENERS AND DRY-SHAKE FINISH MATERIALS TO THE ARCHITECT.

C. SHOP DRAWINGS; CONCRETE REINFORCEMENT:

   1. SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT AND REVIEW ACTION RECEIVED PRIOR TO FABRICATION. WHEN CORRECTIONS ARE REQUIRED, COPIES WILL BE RETURNED NOTING SUCH. DRAWINGS SHALL THEN BE CORRECTED AND RESUBMITTED UNTIL FINAL REVIEW ACTION IS RECEIVED. COORDINATION OF SHOP DRAWING SHALL BE SUCH THAT

PART 2 - PRODUCTS

2.01 REINFORCING MATERIALS

A. REINFORCING BARS:

   1. REINFORCING: SIZE #3 TO #18: ASTM A 615-92 "STANDARD SPECIFICATIONS FOR DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT" GRADE 60, DEFORMED. ASTM A 617-92 "STANDARD SPECIFICATIONS FOR AXLE-STEEL DEFORMED AND PLAIN BARS FOR CONCRETE REINFORCEMENT", GRADE 60, DEFORMED.

   2. REINFORCING: SIZE ¼" DIA. (#2): ASTM A 82-90 "STANDARD SPECIFICATIONS FOR COLD-DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT". EQUIVALENT TO SIZE W5 (0.252" AT DIA.).

B. STEEL WIRE: ASTM A 82-90, PLAIN, COLD-DRAWN STEEL, "STANDARD SPECIFICATIONS FOR COLD-DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT".

C. WELDED WIRE FABRIC: ASTM A 185-90, "STANDARD SPECIFICATIONS FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT".

D. SUPPORTS FOR REINFORCEMENT:

   1. GENERAL: PROVIDE SUPPORTS FOR REINFORCEMENT INCLUDING BOLSTERS, CHAIRS AND SPACERS FOR SPACING, SUPPORTING AND FASTENING REINFORCING BARS AND WELDED WIRE FABRIC IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WOOD, BRICK AND OTHER DEVICES WILL NOT BE ACCEPTABLE UNLESS SPECIFICALLY NOTED HEREIN.

2.02 CONCRETE MATERIALS

A. PORTLAND CEMENT: ASTM C 150-92, TYPE 1. USE ONLY ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.

B. MINIMUM PROPERTIES: DESIGN MIXES TO PROVIDE NORMAL WEIGHT CONCRETE WITH THE FOLLOWING MINIMUM PROPERTIES:

   1. FOUNDATIONS: 3000 PSI 28-DAY COMPRESSIVE STRENGTH; 517 LBS. CEMENT PER CU. YD. MINIMUM.
   2. ADMIXTURES: USE AIR-ENTRAINING ADMIXTURE IN EXPOSED CONCRETE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. USE ADMIXTURES FOR WATER-REDUCING AND SET-CONTROL IN COMPLIANCE WITH THE MANUFACTURER'S DIRECTIONS AND WHEN SPECIFICALLY APPROVED BY THE ARCHITECT.

C. SLUMP LIMITS: PROPORTIONS AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT THE POINT OF PLACEMENT AS FOLLOWS:

   1. RAMPS AND SLOPING SURFACES: NOT MORE THAN 3".

   2. REINFORCED FOUNDATION SYSTEMS: NOT LESS THAN 1" AND NOT MORE THAN 4".

   3. ALL OTHER CONCRETE: NOT LESS THAN 1" AND NOT MORE THAN 4".

PART 3 - EXECUTION

3.01 INSPECTION

A. GENERAL: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.02 QUALITY CONTROL TESTING DURING CONSTRUCTION

B. GENERAL: THE TESTING LABORATORY APPROVED BY THE ARCHITECT WILL PERFORM ALL TESTS AND SUBMIT TEST REPORTS.

C. TESTS: SAMPLING AND TESTING FOR QUALITY CONTROL DURING THE PLACEMENT OF CONCRETE SHALL INCLUDE THE FOLLOWING:

   1. SAMPLING FRESH CONCRETE: ASTM C 172-90, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C 94-92.

   2. SLUMP: ASTM C 143-90, ONE TEST FOR EACH CONCRETE LOAD AT POINT OF DISCHARGE AND ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

   3. AIR CONTENT: ASTM C 231-91, PRESSURE FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

   4. CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40° F. AND BELOW, AND WHEN 80° F. AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.

   5. COMPRESSION TEST SPECIMEN: ASTM C 31-91, ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED SPECIMENS ARE REQUIRED.

   6. COMPRESSIVE STRENGTH TESTS:

      A. ASTM C 39-86; ONE SET FOR EACH 100 CU. YDS. OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQ. FT. OF SURFACE AREA PLACED; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING.

      B. WHEN THE FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.

      C. WHEN THE TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CU. YDS., THE STRENGTH TEST MAY BE WAIVED BY THE ARCHITECT IF, IN HIS JUDGMENT, ADEQUATE EVIDENCE OF SATISFACTORY STRENGTH IS PROVIDED.

      D. WHEN THE STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 % OF COMPANION LABORTORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.

D. REPORTS: TEST RESULTS WILL BE REPORTED IN WRITING TO THE ARCHITECT AND THE CONTRACTOR ON THE SAME DAY THAT TESTS ARE MADE. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN THE STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS; COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

END OF SECTION 03300

SECTION 05120
STRUCTURAL STEEL

PART 1 - GENERAL

1.01 WORK INCLUDED

A. THE EXTENT OF STRUCTURAL STEEL WORK IS SHOWN ON THE DRAWINGS, INCLUDING SCHEDULES, NOTES AND DETAILS TO SHOW SIZE AND LOCATION OF MEMBERS, TYPICAL CONNECTIONS AND TYPE OF STEEL.

B. STRUCTURAL STEEL IS THAT WORK DEFINED IN THE AISC "CODE OF STANDARD PRACTICE" DATED SEPTEMBER 1, 1986, AND AS OTHERWISE SHOWN ON THE DRAWINGS EXCEPT ARTICLE 4.2.1 SHALL BE CHANGED TO READ: "APPROVAL BY THE OWNER OR HIS REPRESENTATIVE OF SHOP DRAWINGS PREPARED BY THE FABRICATOR INDICATES THE FABRICATOR HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS. APPROVAL DOES NOT RELIEVE THE FABRICATOR OF THE RESPONSIBILITY FOR ACCURACY OF DETAILED DIMENSIONS ON SHOP DRAWINGS NOR THE GENERAL FIT-UP OF PARTS TO BE ASSEMBLED IN THE FIELD."

1.02 QUALITY ASSURANCE

A. CODES AND STANDARDS: COMPLY WITH THE PROVISIONS OF THE FOLLOWINGS EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS.
   1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
      SPECIFICATION FOR ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, STRUCTURAL STEEL BUILDINGS, DATED JUNE 1, 1989 (WITH COMMENTARY).

   2. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, DATED SEPT. 1, 1986 EXCEPT AS MODIFIED IN 1.01 B.

   3. AMERICAN WELDING SOCIETY (AWS).
      STRUCTURAL WELDING CODE, D1.1-83.

   4. RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS OF THE ENGINEERING FOUNDATION "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325-90 OR A 490-90 BOLTS", DATED NOV. 13, 1985 (WITH COMMENTARY).

   5. STEEL STRUCTURES PAINTING COUNCIL (SSPC).
      STEEL STRUCTURES PAINTING MANUAL, VOLUME 1, 2ND EDITION, 1982, GOOD PAINTING PRACTICE.
      STEEL STRUCTURES PAINTING MANUAL, VOLUME 2, 3RD EDITION, 1982, SYSTEMS AND SPECIFICATIONS.

   6. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM):
      A 6-90A: "GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES, SHEET PILING AND BARS FOR STRUCTURAL USE".

1.03 QUALITY CONTROL

A. FABRICATION AND ERECTION QUALIFICATIONS:
   1. FABRICATOR AND ERECTOR MUST HAVE A MINIMUM OF FIVE YEARS EXPERIENCE WITH A PROVEN RECORD OF SATISFACTORY WORK.

   2. FABRICATOR AND ERECTOR MUST HAVE HAD WORK OF SIMILAR TYPE OF CONSTRUCTION TO BE CONSIDERED AS "SATISFACTORY WORK".

   3. THE ARCHITECT SHALL BE THE SOLE JUDGE AS TO WHETHER THE FABRICATOR AND ERECTOR SATISFACTORILY MEETS THESE REQUIREMENTS.

   4. "STEEL FABRICATOR" AND "STEEL ERECTOR" SHALL BE AN ORGANIZED STEEL COMPANY ENGAGED IN THIS TYPE OF WORK.

   5. IF ANY FABRICATOR OR STEEL ERECTOR IS DOUBTFUL AS TO WHETHER HE MEETS THESE REQUIREMENTS, HE MAY SUBMIT INFORMATION TO THE ARCHITECT AT LEAST 10 DAYS BEFORE THE BID OPENING IN ORDER TO QUALIFY.

B. QUALIFICATIONS FOR WELDING WORK:

   1. QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH THE D1.1-83 STANDARD QUALIFICATION PROCEDURE IN STRUCTURAL WELDING CODE OF AWS.

   2. PROVIDE CERTIFICATION THAT WELDERS TO BE EMPLOYED IN THE WORK HAVE SATISFACTORILY PASSED AWA QUALIFICATION TESTS WITHIN THE PREVIOUS 12 MONTHS. IF RECERTIFICATION OF WELDERS IS REQUIRED, RETESTING WILL BE CONTRACTOR'S RESPONSIBILITY.

C. SOURCE QUALITY CONTROL:

   1. MATERIALS AND FABRICATION PROCEDURES ARE SUBJECT TO INSPECTION AND TESTS IN THE MILL, SHOP AND FIELD, CONDUCTED BY A QUALIFIED INSPECTION AGENCY. SUCH INSPECTIONS AND TESTS WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING MATERIALS AND FABRICATION PROCEDURES IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

   2. REMOVE AND REPLACE MATERIALS OR FABRICATED COMPONENTS WHICH DO NOT COMPLY.

1.04 SUBMITTALS

A. MANUFACTURER'S DATA, STRUCTURAL STEEL:
   1. FOR INFORMATION ONLY, SUBMIT TWO COPIES OF PRODUCER'S OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE FOLLOWING PRODUCTS. INCLUDE LABORATORY TEST REPORTS AND DATA TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS (INCLUDING SPECIFIED STANDARDS). INDICATE BY TRANSMITTAL FORM THAT COPY OF EACH APPLICABLE INSTRUCTION HAS BEEN DISTRIBUTED TO FABRICATORS, INSTALLERS AND ERECTORS.

      A. STRUCTURAL STEEL (EACH TYPE), INCLUDING CERTIFIED COPIES OF MILL REPORTS COVERING THE CHEMICAL AND PHYSICAL PROPERTIES
      B. HIGH-STRENGTH BOLTS (EACH TYPE), INCLUDING NUTS AND WASHERS
      C. LOAD INDICATOR WASHERS
      D. UNFINISHED BOLTS AND NUTS
      E. STRUCTURAL STEEL PRIMER PAINT
      F. SHRINKAGE-RESISTANCE GROUT

B. SHOP DRAWINGS, STRUCTURAL STEEL:

   1. SUBMIT SHOP DRAWINGS INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND SHOP ASSEMBLY OF MEMBERS, AND DETAILS, SCHEDULES, PROCEDURES AND DIAGRAMS, SHOWING THE SEQUENCE OF ERECTION.

   2. CONTRACTOR SHALL CHECK, APPROVE AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT.

   3. THE SHOP DRAWINGS SHALL BE REVIEWED BY ARCHITECT PRIOR TO FABRICATION. ARCHITECT'S REVIEW IS FOR DESIGN ONLY. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, QUANTITIES, AND COORDINATION WITH OTHER TRADES. ENGINEER'S REVIEW AND ACCEPTANCE OF SHOP DRAWINGS IS SUBJECT TO ALL CONTRACT REQUIREMENTS AND DOES NOT AUTHORIZE ANY CHANGES INVOLVING ADDITIONAL COST TO OWNER.

   4. INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBER AND HOLES. INDICATE WELDS BY STANDARD AWS SYMBOLS, AND SHOW SIZE, LENGTH AND TYPE OF EACH WELD.

   5. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR THE INSTALLATION OF ANCHOR BOLTS AND ANCHORAGES TO BE INSTALLED BY OTHERS.

   6. SHOP DRAWINGS SHALL BE MADE TO CONFORM TO THE DESIGN DRAWINGS. CONTRACT DRAWINGS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS.

1.05 DELIVERY, STORAGE AND HANDLING

A. DELIVERY: DELIVER MATERIALS TO THE SITE AT INTERVALS TO ENSURE UNINTERRUPTED PROGRESS OF THE WORK. DELIVER ANCHOR BOLTS, LEVELING PLATES AND ANCHORAGE DEVICES, WHICH ARE TO BE EMBEDDED IN CAST-IN-PLACE CONCRETE OR MASONRY, IN TIME NOT TO DELAY WORK.

B. STORAGE: STORE MATERIALS TO PERMIT EASY ACCESS FOR INSPECTION AND IDENTIFICATION. KEEP STEEL MEMBERS OFF THE GROUND, USING PALLETS, PLATFORMS, OR SUPPORTS. PROTECT STEEL MEMBERS AND PACKAGED MATERIALS FROM EROSION AND DETERIORATION.

C. HANDLING: DO NOT STORE MATERIALS ON THE STRUCTURE IN A MANNER THAT MIGHT CAUSE DISTORTION OR DAMAGE TO THE MEMBERS OR THE SUPPORTING STRUCTURES. REPAIR OR REPLACE DAMAGED MATERIALS OR STRUCTURES AS DIRECTED BY THE ARCHITECT.

PART 2 - PRODUCTS

2.01 MATERIALS

A. WIDE FLANGE SHAPES: ASTM A-992 GRADE 50.

B. OTHER ROLLED STEEL PLATES, SHAPES AND BARS: ASTM A 36-90.

C. ANCHOR BOLTS: ASTM A 307-90, NON-HEADED TYPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

D. UNFINISHED THREADED FASTENERS:
   1. ASTM A 307-90, GRADE A, REGULAR LOW CARBON STEEL BOLTS AND NUTS.
   2. PROVIDE EITHER HEXAGONAL, OR SQUARE, HEADS AND NUTS, EXCEPT USE ONLY HEXAGONAL UNITS FOR EXPOSED CONNECTIONS.

E. HIGH-STRENGTH THREADED FASTENERS:
   1. HEAVY HEXAGON STRUCTURAL BOLTS, HEAVY HEXAGON NUTS, HARDENED WASHERS AND DIRECT TENSION INDICATING WASHERS SHALL BE QUENCHED AND TEMPERED MEDIUM-CARBON STEEL BOLTS, NUTS AND WASHERS COMPLYING WITH ASTM A 325-84.
   2. HIGH-STRENGTH LOAD INDICATOR BOLT (LIB) COMPLYING WITH ALL PROVISIONS OF ASTM A 325-90 AS MANUFACTURED BY LOHR STRUCTURAL FASTENERS, INC., BETHLEHEM STEEL, INDUSTRIAL FASTENERS DIV. OR APPROVED EQUAL ARE ACCEPTABLE.

F. ELECTRODES FOR WELDING:
   1. SHIELDED ARC WELDING: E60 OR E70 ELECTRODES, AWS A5.1, AWS 15.5 IN ACCORDANCE WITH AWS 1.1-83.
   2. ABSUBMERGED ARC WELDING: F6 OR F7 ELECTRODES, AWS 5.17 OR 5.23 IN ACCORDANCE WITH AWS 1.1-83.

G. STRUCTURAL STEEL PRIMER PAINT: STEEL STRUCTURES PAINTING COUNCIL, SSPC - PAINT SPECIFICATION NO.

H. NONMETALLIC NON-SHRINK GROUT: PREMIXED, NONMETALLIC, NONCORROSIVE, NONSTAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER REDUCING AGENTS, COMPLYING WITH CRD-C588.

2.02 FABRICATION

A. HIGH-STRENGTH BOLTED CONNECTIONS:
   1. INSTALL HIGH-STRENGTH THREADED FASTENERS IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A 325-90.
   2. BOLTED CONNECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS, SHALL BE NON-SLIP (FRICTION) TYPE. THREADS SHALL BE EXCLUDED FROM SHEAR PLANES. UNLESS DIRECT TENSION LOAD INDICATOR BOLT SYSTEMS ARE USED, ALL HIGH-STRENGTH CONNECTORS SHALL BE INSTALLED WITH DIRECT TENSION INDICATOR WASHERS.
   3. ALL BOLTS SHALL HAVE A HARDENED WASHER UNDER THE TURNING ELEMENT.
   4. INSTALLATION OF DIRECT TENSION INDICATOR WASHERS OR DIRECT TENSION INDICATOR BOLT SYSTEMS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. WELDED CONNECTIONS:
   1. ALL WELDING SHALL BE IN ACCORDANCE WITH "STANDARD WELDING CODE" AWS D1.1-83.
   2. MINIMUM SIZE OF FILLET WELD PERMITTED SHALL BE 3/16".
   3. ASSEMBLE AND WELD BUILT-UP SECTIONS BY METHODS WHICH WILL PRODUCE TRUE ALIGNMENT OF AXES WITHOUT WARP OR SHORTENING.

C. SHEAR CONNECTIONS:
   1. PREPARE STEEL SURFACES AS RECOMMENDED BY THE MANUFACTURER OF THE SHEAR CONNECTORS.
   2. WELD SHEAR CONNECTORS, SPACED AS SHOWN ON THE DRAWINGS, TO BEAMS AND GIRDERS IN COMPOSITE CONSTRUCTION. USE AUTOMATIC ARC WELDING OF HEADED STUD SHEAR CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND IN CONFORMANCE TO REQUIREMENTS OF SECTION 4 PART F OF AWS

D1.1-83 "STRUCTURAL WELDING CODE".

D. COOPERATION WITH OTHER TRADES:
   1. PROVIDE HOLES FOR SECURING OTHER WORK TO STRUCTURAL STEEL FRAMING, AND FOR THE PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS, AS SHOWN ON THE FINAL SHOP DRAWINGS. PROVIDE THREADED NUT WELDED TO FRAMING, AND OTHER SPECIALTY ITEMS AS SHOWN TO RECEIVE OTHER WORK.
   2. CUT, DRILL OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING. DRILL HOLES IN BEARING PLATES.
   3. ALL LOOSE PLATES, BOLTS AND INSERTS BETWEEN THE STRUCTURAL STEEL AND WORK OF OTHER TRADES ARE TO BE FURNISHED BY THE FABRICATOR AND SET BY OTHER TRADES.
   4. ALL LOOSE LINTELS TO BE FURNISHED BY THE FABRICATOR AND SET BY OTHER TRADES.
   5. WHERE STEEL LINTELS (OTHER THAN ANGLES) SUPPORT CONCRETE BLOCK OVER, ADD ½" DIA. X 4" HEADED STUDS WELDED TO TOP FLANGE IN CENTER OF GROUTED BLOCK SPACED AT MAX. 16" O.C. UNLESS OTHERWISE NOTED.

2.03 SHOP PAINTING

A. SHOP PAINT ALL STRUCTURAL STEEL WORK, EXCEPT THOSE MEMBERS OR PORTIONS OF MEMBERS TO BE EMBEDDED IN OR IN CONTACT WITH CONCRETE. PAINT EMBEDDED STEEL WHICH IS PARTIALLY EXPOSED ON THE EXPOSED PORTIONS AND THE INITIAL 2" OF EMBEDDED AREAS ONLY.
DO NOT PAINT WITHIN 2" OF SURFACES WHICH ARE TO BE WELDED OR HIGH-STRENGTH BOLTED WITH FRICTION TYPE CONNECTIONS FOR SHEAR, MOMENT RESISTING OR SPLICE CONNECTIONS.
DO NOT PAINT SURFACES WHICH ARE SCHEDULED TO RECEIVE SPRAYED-APPLIED FIRE-RESISTIVE COATINGS.
APPLY 2 COATS OF PAINT TO SURFACES WHICH ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM THE FIRST.

B. SURFACE PREPARATION: AFTER INSPECTION AND BEFORE SHIPPING, CLEAN STEEL WORK TO BE PAINTED. REMOVE LOOSE RUST, LOOSE MILL SCALE, AND SPLATTER, SLAG OR FLUX DEPOSITS. CLEAN STEEL IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) USING ONE OR MORE OF THE FOLLOWING.
   SP-2 "HAND TOOL CLEANING"
   SP-3 "POWER TOOL CLEANING"
   SP-7 "BRUSH-OFF BLAST CLEANING"

PAINTING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY STRUCTURAL STEEL PRIMER PAINT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AT A RATE TO PROVIDE A UNIFORM DRY FILM THICKNESS OF 2.0 MILS. USE PAINTING METHODS WHICH WILL RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES AND ALL EXPOSED SURFACES.

PART 3 - EXECUTION

3.01 INSPECTION
CONTRACTOR MUST EXAMINE THE AREAS AND CONDITIONS UNDER WHICH STRUCTURAL STEEL WORK IS INSTALLED, AND NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.02 FIELD MEASUREMENTS

A. CONTRACTOR SHALL MAKE MEASUREMENTS IN THE FIELD TO SUPPLEMENT OR VERIFY DIMENSIONS INDICATED AND TO DETERMINE LOCATIONS, LIMITS AND ELEVATIONS OF ALL ADJACENT EXISTING STRUCTURES WHERE THEY FORM A CONNECTED STRUCTURE PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND COMMENCEMENT OF CONSTRUCTION.

B. ALL FIELD DIMENSIONS FOR PREPARATION OF STEEL DETAILS SHALL BE INDICATED ON SHOP DRAWINGS.

3.03 ERECTION

A. GENERAL:

   1. COMPLY WITH AISC SPECIFICATIONS, AISC CODE OF STANDARD PRACTICE, OSHA REQUIREMENTS, AND AS HEREIN SPECIFIED. AS DEFINED BY ARTICLE 7.9.3 OF NON-SELF-SUPPORTING STEEL FRAMES
   2. ALL STEEL FRAMING SHALL BE CONSIDERED
      THE AISC CODE OF STANDARD PRACTICE DATED SEPTEMBER 1, 1986.
   3. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SUPPORT UNTIL REQUIRED CONNECTIONS OR OTHER INTERACTING ELEMENTS ARE COMPLETE.

B. TEMPORARY SHORING AND BRACING: PROVIDE TEMPORARY SHORING AND BRACING MEMBERS WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS ONLY AFTER ALL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINES TO ACHIEVE PROPER ALIGNMENT OF THE STRUCTURES AS ERECTION PROCEEDS. WHERE CAMBER IS SPECIFIED, THE CAMBERED POSITION SHALL BE MAINTAINED AND CONTINUOUSLY MONITORED UNTIL ALL CONNECTIONS ARE COMPLETE.T

C. ANCHOR BOLTS:
   1. FURNISH ANCHOR BOLTS AND CONNECTORS FOR SECURING STRUCTURAL STEEL TO FOUNDATIONS AND OTHER IN-PLACE WORK.
   2. FURNISH TEMPLATES AND DEVICES FOR PRESETTING BOLTS AND ANCHORS TO ACCURATE LOCATIONS.
   3. REFER TO DIVISION 3 OF THESE SPECIFICATIONS FOR ANCHOR BOLT INSTALLATION REQUIREMENTS IN CONCRETE, AND DIVISION 4 FOR MASONRY INSTALLATION.

D. SETTING LEVELING PLATES, BASE PLATES AND BEARING PLATES:
   1. CLEAN CONCRETE AND MASONRY BEARING SURFACES OF BOND-REDUCING MATERIALS AND ROUGHEN TO IMPROVE BOND TO SURFACES. CLEAN THE BOTTOM SURFACE OF BASE AND BEARING PLATES.
   2. SET LOOSE AND ATTACHED BEARING PLATES FOR STRUCTURAL MEMBERS ON STEEL WEDGES OR ADJUSTING DEVICES. COLUMN BASE PLATES TO BE SET ON 1/4" THICK STEEL LEVELING PLATES OF SAME HORIZONTAL DIMENSIONS AS BASE PLATE. LEVELING PLATES TO BE SET ON MIN. 3/4" NON-SHRINK GROUT TO EXACT LEVEL AND GRADE ELEVATION A MIN. OF 3 DAYS PRIOR TO ERECTION OF COLUMNS OVER.
   3. TIGHTEN THE ANCHOR BOLTS AFTER THE SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. DO NOT REMOVE WEDGES OR SHIMS, BUT IF PROTRUDING, CUT OFF FLUSH WITH THE EDGE OF THE BASE OR BEARING PLATE PRIOR TO PACKING WITH GROUT.
   4. PACK GROUT BETWEEN BEARING SURFACES AND BASES OR PLATES TO ENSURE THAT NO VOIDS REMAIN. FINISH EXPOSED SURFACES, PROTECT INSTALLED MATERIALS, AND ALLOW TO CURE IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS.

E. TOUCH-UP PAINTING:

IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF THE SHOP PAINT. APPLY PAINT TO EXPOSED AREAS WITH THE SAME MATERIAL AS USED FOR SHOP PAINTING. APPLY BY BRUSH OR SPRAY TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 2.0 MILS.

QUALITY CONTROL
I. ENGAGE AN INDEPENDENT TESTING AND INSPECTION AGENCY TO INSPECT HIGH-STRENGTH BOLTED CONNECTIONS AND WELDED CONNECTIONS AND TO PERFORM TESTS AND PREPARE TEST REPORTS.
II. TESTING AGENCY SHALL CONDUCT AND INTERPRET TESTS, STATE IN EACH REPORT WHETHER TEST SPECIMENS COMPLY WITH REQUIREMENTS, AND SPECIFICALLY STATE ANY DEVIATIONS THEREFROM.
III. PROVIDE ACCESS FOR TESTING AGENCY TO PLACES WHERE STRUCTURAL STEEL WORK IS BEING FABRICATED OR PRODUCED SO THAT REQUIRED INSPECTION AND TESTING CAN BE ACCOMPLISHED.
IV. TESTING AGENCY MAY INSPECT STRUCTURAL STEEL AT PLANT BEFORE SHIPMENT.
V. CORRECT DEFICIENCIES IN STRUCTURAL STEEL WORK THAT INSPECTIONS AND LABORATORY TEST REPORTS HAVE INDICATED TO BE NOT IN COMPLIANCE WITH REQUIREMENTS. PERFORM ADDITIONAL TESTS, AT CONTRACTOR'S EXPENSE, AS NECESSARY TO RECONFIRM ANY NONCOMPLIANCE OF ORIGINAL WORK AND TO SHOW COMPLIANCE OF CORRECTED WORK.
VI. SHOP-BOLTED CONNECTIONS:
   (1) INSPECT OR TEST IN ACCORDANCE WITH AISC SPECIFICATIONS.
   (2) VERIFY THAT GAPS OF INSTALLED DIRECT TENSION INDICATORS ARE LESS THAN GAPS SPECIFIED IN ASTM F 959, TABLE 2.
VII. SHOP WELDING: INSPECT AND TEST DURING FABRICATION OF STRUCTURAL STEEL ASSEMBLIES, AS FOLLOWS:
   (1) CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
   (2) PERFORM VISUAL INSPECTION OF ALL WELDS.
   (3) PERFORM TESTS OF TENSION AND MOMENT RESISTING WELDS USING ONE OF THE FOLLOWING PROCEDURES:
      (A) LIQUID PENETRANT INSPECTION: ASTM E 165.
      (B) MAGNETIC PARTICLE INSPECTION: ASTM E 709; PERFORMED ON ROOT PASS AND ON FINISHED WELD. CRACKS OR ZONES OF INCOMPLETE FUSION OR PENETRATION NOT ACCEPTABLE.
      (C) RADIOGRAPHIC INSPECTION: ASTM E 94 AND ASTM E 142; MINIMUM QUALITY LEVEL "2-2T."
      (D) ULTRASONIC INSPECTION: ASTM E 164.
VIII. FIELD-BOLTED CONNECTIONS:
   (1) INSPECT IN ACCORDANCE WITH AISC SPECIFICATIONS.
   (2) FOR DIRECT TENSION INDICATORS, COMPLY WITH REQUIREMENTS OF ASTM F 959.
   VERIFY THAT GAPS ARE LESS THAN GAPS SPECIFIED IN TABLE 2.
IX. FIELD WELDING: INSPECT AND TEST DURING ERECTION OF STRUCTURAL STEEL AS FOLLOWS:
   (1) CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
   (2) PERFORM VISUAL INSPECTION OF ALL WELDS.
   (3) PERFORM TESTS OF TENSION AND MOMENT RESISTING WELDS USING ONE OF THE FOLLOWING PROCEDURES:
      (A) LIQUID PENETRANT INSPECTION: ASTM E 165.
      (B) MAGNETIC PARTICLE INSPECTION: ASTM E 709; PERFORMED ON ROOT PASS AND ON FINISHED WELD. CRACKS OR ZONES OF INCOMPLETE FUSION OR PENETRATION NOT ACCEPTABLE.
      (C) RADIOGRAPHIC INSPECTION: ASTM E 94 AND ASTM E 142; MINIMUM QUALITY LEVEL "2-2T."
      (D) ULTRASONIC INSPECTION: ASTM E 164.

END OF SECTION 05120

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STRUCTURAL SPECIFICATIONS

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PROJECT NO. 05.098

DRAWN BY GJH

SHEET NO.

S1.0-S1

SECTION 06192
PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES

PART 1 - GENERAL

1.01 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:
1. GABLE-SHAPED TRUSSES.
2. HIP AND GIRDER TRUSSES AT HIP ENDS OF ROOF.
3. MONOPITCH TRUSSES.
4. 4x2 PARALLEL CHORD TRUSSES.

B. ROOF SHEATHING IS SPECIFIED IN DIVISION 6 SECTION 'ROUGH CARPENTRY.'

1.02 DEFINITIONS

PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES INCLUDE PLANAR STRUCTURAL UNITS CONSISTING OF METAL-PLATE-CONNECTED MEMBERS THAT ARE FABRICATED FROM DIMENSION LUMBER AND THAT HAVE BEEN CUT AND ASSEMBLED PRIOR TO DELIVERY TO THE PROJECT SITE.

1.03 SUBMITTALS

A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.

B. PRODUCT DATA FOR LUMBER, METAL CONNECTOR PLATES, HARDWARE, FABRICATION PROCESS, AND FASTENERS.

C. WOOD TREATMENT DATA AS FOLLOWS INCLUDING CHEMICAL TREATMENT MANUFACTURER'S INSTRUCTIONS FOR HANDLING, STORING, INSTALLATION, AND FINISHING OF TREATED MATERIAL:
1. CERTIFICATION BY TREATING PLANT THAT REQUIRED FIRE-RETARDANT TREATMENT COMPLIES WITH SPECIFIED STANDARD AND OTHER REQUIREMENTS, AND BY METAL CONNECTOR PLATE MANUFACTURER THAT FIRE-RETARDANT FORMULATION IS APPROVED FOR USE WITH METAL CONNECTOR PLATES FOR TRUSS EXPOSURE INDICATED.
2. MATERIAL TEST REPORTS FROM QUALIFIED INDEPENDENT TESTING LABORATORY INDICATING AND INTERPRETING TEST RESULTS RELATIVE TO COMPLIANCE OF FIRE-RETARDANT-TREATED WOOD PRODUCTS WITH REQUIREMENTS INDICATED.

D. SHOP DRAWINGS INDICATING SPECIES, SPECIES GROUP, SIZES, AND STRESS GRADES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS.
1. TO THE EXTENT ENGINEERING DESIGN CONSIDERATIONS ARE INDICATED AS FABRICATOR'S RESPONSIBILITY, INCLUDE DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESS, STRESS DIAGRAMS AND CALCULATIONS, AND OTHER INFORMATION NEEDED FOR REVIEW THAT HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
2. PROVIDE SHOP DRAWINGS THAT HAVE BEEN SIGNED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER.

E. PRODUCT CERTIFICATE, SIGNED BY OFFICER OF FABRICATING FIRM, CERTIFYING THAT METAL-PLATE-CONNECTED WOOD TRUSSES SUPPLIED FOR PROJECT COMPLY WITH SPECIFIED REQUIREMENTS.

1.04 QUALITY ASSURANCE

A. TPI STANDARDS: COMPLY WITH APPLICABLE REQUIREMENTS AND RECOMMENDATIONS OF THE FOLLOWING TRUSS PLATE INSTITUTE (TPI) PUBLICATIONS:
1. 'DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES.'
2. 'DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES.'
3. 'COMMENTARY AND RECOMMENDATIONS FOR HANDLING AND ERECTING WOOD TRUSSES.'
4. 'COMMENTARY AND RECOMMENDATIONS FOR BRACING WOOD TRUSSES.'
5. 'QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES.'

B. CONNECTOR PLATE MANUFACTURER'S QUALIFICATIONS: A MANUFACTURER THAT IS A MEMBER OF TPI AND THAT COMPLIES WITH TPI QUALITY CONTROL PROCEDURES FOR MANUFACTURE OF CONNECTOR PLATES PUBLISHED IN TPI 'QUALITY STANDARD FOR METAL CONNECTOR PLATE MANUFACTURE.'

C. WOOD STRUCTURAL DESIGN STANDARD: COMPLY WITH APPLICABLE REQUIREMENTS OF N.F.P.A. 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.'

D. SINGLE-SOURCE ENGINEERING RESPONSIBILITY: PROVIDE TRUSSES ENGINEERED BY THE METAL PLATE CONNECTOR MANUFACTURER TO SUPPORT SUPERIMPOSED DEAD, LIVE AND WIND LOADS INDICATED, WITH DESIGN APPROVED AND CERTIFIED BY A QUALIFIED PROFESSIONAL ENGINEER.

E. ENGINEER QUALIFICATIONS: A PROFESSIONAL ENGINEER LEGALLY AUTHORIZED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED AND EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED THAT HAVE RESULTED IN THE INSTALLATION OF METAL-PLATE-CONNECTED WOOD TRUSSES SIMILAR TO THOSE OF THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

F. FABRICATOR'S QUALIFICATIONS:
1. USE A FIRM THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS FOR QUALITY CONTROL AND IS EXPERIENCED IN PREFABRICATING METAL-PLATE-CONNECTED WOOD TRUSSES SIMILAR TO THOSE OF THIS PROJECT THAT HAVE A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
2. FABRICATOR PARTICIPATES IN A RECOGNIZED QUALITY ASSURANCE PROGRAM THAT INVOLVES INSPECTION BY SPIB; TIMBER PRODUCTS INSPECTION, INC.; TRUSS PLATE INSTITUTE; OR OTHER INDEPENDENT INSPECTION AND TESTING AGENCY ACCEPTABLE TO ARCHITECT AND AUTHORITIES HAVING JURISDICTION.

G. SINGLE SOURCE RESPONSIBILITY FOR CONNECTOR PLATES: PROVIDE METAL CONNECTOR PLATES FROM A SINGLE MANUFACTURER.

1.05 DELIVERY, STORAGE, AND HANDLING

A. HANDLE AND STORE TRUSSES WITH CARE AND COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND TPI RECOMMENDATIONS TO AVOID DAMAGE FROM BENDING, OVERTURNING, OR OTHER CAUSE WHICH TRUSSES ARE NOT DESIGNED TO RESIST OR ENDURE.

1.06 SEQUENCING AND SCHEDULING

A. TIME DELIVERY AND ERECTION OF TRUSSES TO AVOID EXTENDED ON-SITE STORAGE AND TO AVOID DELAYING WORK OF OTHER TRADES WHOSE WORK MUST FOLLOW ERECTION OF TRUSSES.

PART 2 - PRODUCTS

2.01 CONNECTOR PLATE MANUFACTURERS

A. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING METAL CONNECTOR PLATES THAT MAY BE INCORPORATED IN THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. ALPINE ENGINEERED PRODUCTS, INC.
2. BEMAX OF FLORIDA, INC.
3. GANG-NAIL SYSTEMS, INC.
4. TEE-LOK CORP.
5. TRUSS CONNECTORS OF AMERICA.
6. TRUSWAL SYSTEMS CORPORATION.

2.02 LUMBER

A. FACTORY MARK EACH PIECE OF LUMBER WITH TYPE, GRADE, MILL, AND GRADING AGENCY.

B. LUMBER STANDARD: MANUFACTURE LUMBER TO COMPLY WITH PS 20 'AMERICAN SOFTWOOD LUMBER STANDARD' AND WITH APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY AMERICAN LUMBER STANDARDS COMMITTEE'S (ALSC) BOARD OF REVIEW.

C. INSPECTION AGENCIES: INSPECTION AGENCIES AND THE ABBREVIATIONS USED TO REFERENCE THEM TO LUMBER GRADES AND SPECIES INCLUDE THE FOLLOWING:
1. NLGA - NATIONAL LUMBER GRADES AUTHORITY (CANADIAN).
2. SPIB - SOUTHERN PINE INSPECTION BUREAU.
3. WCLIB - WEST COAST LUMBER INSPECTION BUREAU.
4. WWPA - WESTERN WOOD PRODUCTS ASSOCIATION.

D. NOMINAL SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS.

E. PROVIDE DRESSED LUMBER, S4S, MANUFACTURED TO ACTUAL SIZES REQUIRED BY PS 20 TO COMPLY WITH REQUIREMENTS INDICATED BELOW:
1. MOISTURE CONTENT: SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING AND SHIPMENT FOR SIZES 2 INCHES OR LESS IN NOMINAL THICKNESS, UNLESS OTHERWISE INDICATED.

2.03 METAL CONNECTOR PLATES

A. GENERAL: FABRICATE CONNECTOR PLATES FROM METAL COMPLYING WITH REQUIREMENTS INDICATED IN THIS ARTICLE.

B. HOT-DIP GALVANIZED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM 446, GRADE A; ZINC COATED BY HOT-DIP PROCESS TO COMPLY WITH ASTM A 525, DESIGNATION G60; MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.036 INCH.

C. ELECTROLYTIC ZINC-COATED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM A 591, COATING CLASS C, AND, FOR STRUCTURAL PROPERTIES, WITH ASTM A 446 GRADE A ; ZINC COATED BY ELECTRO-DEPOSITION; WITH MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.047 INCH.

D. ALUMINUM-ZINC ALLOY-COATED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM A 792, COATING DESIGNATION AZ 50, AND, FOR A STRUCTURAL PROPERTIES, WITH ASTM A 446, GRADE A; ALUMINUM-ZINC ALLOY-COATED BY HOT-DIP PROCESS; WITH MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.036 INCH.

E. STAINLESS STEEL SHEET: CHROMIUM NICKEL STEEL SHEET COMPLYING WITH ASTM A 167, TYPE 304, AND, FOR STRUCTURAL PROPERTIES, ASTM A 446, GRADE A; WITH MINIMUM METAL THICKNESS INDICATED BUT NOT LESS THAN 0.035 INCH.

2.04 FASTENERS

A. GENERAL: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.
1. WHERE TRUSS MEMBERS ARE EXPOSED TO WEATHER OR TO HIGH RELATIVE HUMIDITIES, PROVIDE FASTENERS WITH A HOT-DIP ZINC COATING PER ASTM A153 OR OF AISI TYPE 304 STAINLESS STEEL.

B. NAILS, WIRE, BRADS, AND STAPLES: FS FF-N-105.

C. POWER DRIVEN FASTENERS: NATIONAL EVALUATION REPORT NER-272.

D. WOOD SCREWS: ANSI B18.6.1.

E. LAG BOLTS: ANSI B18.2.1.

F. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A; WITH ASTM A 563 HEX NUTS AND WHERE INDICATED, FLAT WASHERS.

2.05 METAL FRAMING ANCHORS

A. GENERAL:
1. PROVIDE METAL FRAMING ANCHORS OF TYPE, SIZE, METAL, AND FINISH INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED INCLUDING THE FOLLOWING:

B. CURRENT EVALUATION/RESEARCH REPORTS:
1. PROVIDE PRODUCTS FOR WHICH REPORTS EXIST FROM A MODEL CODE ORGANIZATION ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION THAT EVIDENCE COMPLIANCE OF METAL FRAMING ANCHORS FOR APPLICATION INDICATED WITH THE BUILDING CODE IN EFFECT FOR THIS PROJECT.
2. ALLOWABLE DESIGN LOADS: PROVIDE PRODUCTS FOR WHICH MANUFACTURER PUBLISHES ALLOWABLE DESIGN LOADS THAT ARE DETERMINED FROM EMPIRICAL DATA OR BY RATIONAL ENGINEERING ANALYSIS AND THAT ARE DEMONSTRATED BY COMPREHENSIVE TESTING PERFORMED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.

C. GALVANIZED STEEL SHEET: STEEL SHEET ZINC-COATED BY HOT-DIP PROCESS ON CONTINUOUS LINES PRIOR TO FABRICATION TO 525 FOR COATING DESIGNATION G60 AND COMPLY WITH ASTM A WITH ASTM A (STRUCTURAL QUALITY); 446, GRADE A 527 (LOCK-ASTM 526 (COMMERCIAL QUALITY); OR ASTM A A FORMING QUALITY); AS STANDARD WITH MANUFACTURER FOR TYPE OF ANCHOR INDICATED.

2.06 FABRICATION

A. CUT TRUSS MEMBERS TO ACCURATE LENGTHS, ANGLES, AND SIZES TO PRODUCE CLOSE-FITTING JOINTS WITH WOOD-TO-WOOD BEARING IN ASSEMBLED UNITS.

B. FABRICATE METAL CONNECTOR PLATES TO SIZE, CONFIGURATION, THICKNESS, AND ANCHORAGE DETAILS REQUIRED TO WITHSTAND DESIGN LOADINGS FOR TYPES OF JOINT DESIGNS INDICATED.

C. ASSEMBLE TRUSS MEMBERS IN DESIGN CONFIGURATION INDICATED USING JIGS OR OTHER MEANS TO ENSURE UNIFORMITY AND ACCURACY OF ASSEMBLY WITH JOINTS CLOSELY FITTED TO COMPLY WITH TOLERANCES SPECIFIED IN TPI 'QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES.' POSITION MEMBERS TO PRODUCE DESIGN CAMBER INDICATED.

D. CONNECT TRUSS MEMBERS BY MEANS OF METAL CONNECTOR PLATES ACCURATELY LOCATED AND SECURELY FASTENED TO EACH SIDE OF WOOD MEMBERS BY MEANS INDICATED OR APPROVED. MANUFACTURER, MODEL AND TYPE TO BE SPECIFIED ON SHOP DRAWINGS BASED ON DESIGN ANALYSIS, UNLESS NOTED ON DRAWINGS.

PART 3 - EXECUTION

3.01 INSTALLATION
A. GENERAL: ERECT AND BRACE TRUSSES TO COMPLY WITH APPLICABLE REQUIREMENTS OF REFERENCED TPI STANDARDS.

B. WHERE TRUSSES DO NOT FIT, RETURN THEM TO FABRICATOR AND REPLACE WITH TRUSSES OF CORRECT SIZE; DO NOT ALTER TRUSSES IN THE FIELD.

C. ERECT TRUSSES WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT DESIGN SPACINGS INDICATED.

D. HOIST TRUSSES IN PLACE BY MEANS OF LIFTING EQUIPMENT SUITED TO SIZES AND TYPES OF TRUSSES REQUIRED, EXERCISING CARE NOT TO DAMAGE TRUSS MEMBERS OR JOINTS BY OUT-OF-PLANE BENDING OR OTHER CAUSES.

E. ANCHOR TRUSSES SECURELY AT ALL BEARING POINTS TO COMPLY WITH METHODS AND DETAILS INDICATED.

F. INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND TO COMPLY WITH OTHER INDICATED REQUIREMENTS.

G. DO NOT CUT OR REMOVE TRUSS MEMBERS.

END OF SECTION 06192

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STRUCTURAL SPECIFICATIONS

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ISSUE DATE 07-24-2006

REVISIONS

PROJECT NO. 05.098

DRAWN BY GJH

SHEET NO. S1.0-S2

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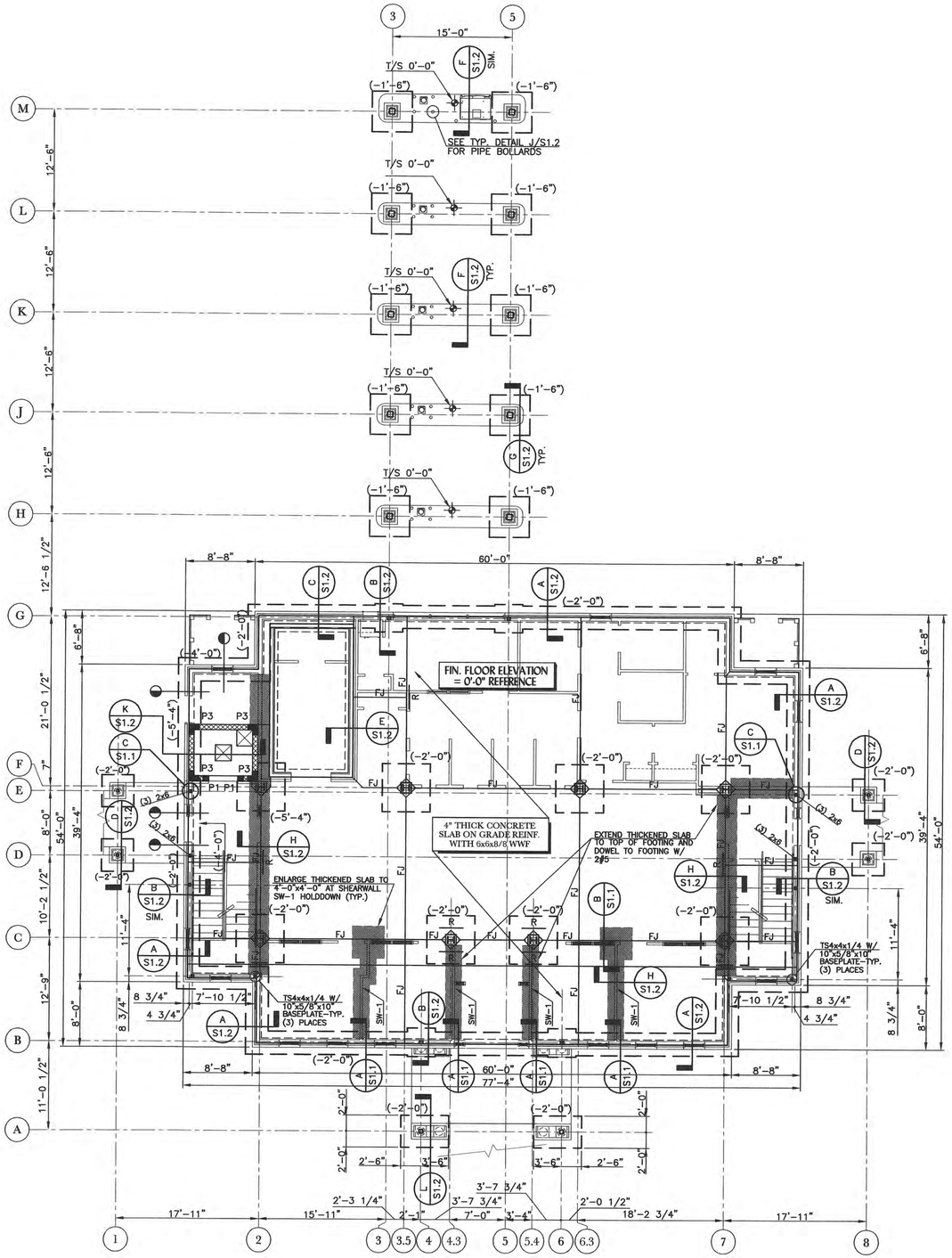
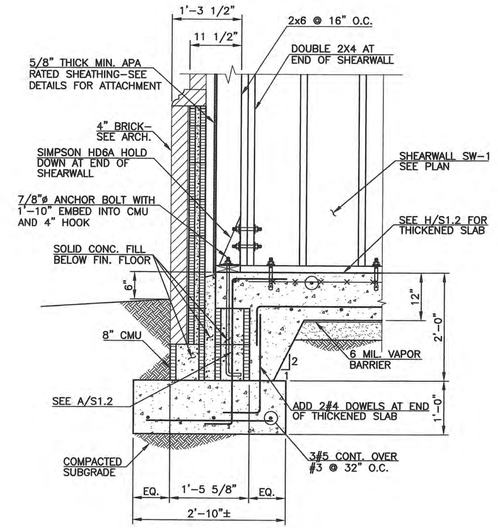
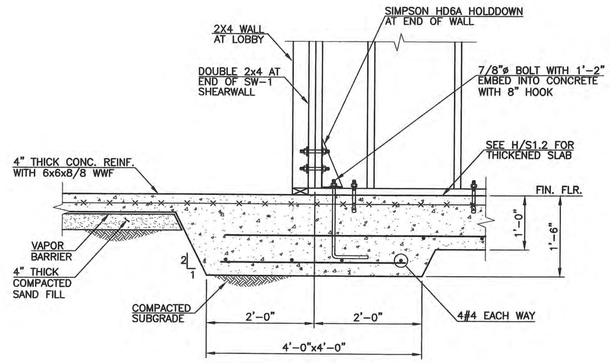
SCALE: 1=1

STRUCTURAL SPECIFICATIONS

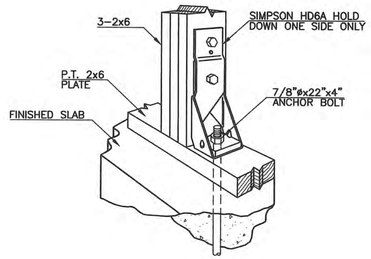




SECTION A S1.1



SECTION B S1.1



SECTION C S1.1

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 06076
PLOTTED: S1-1.dwg 7/21/06 1:50 pm

BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

FOUNDATION PLAN

SEAL
GEORGIA REGISTERED No. 191584 PROFESSIONAL W. HUNTER SAUSSY III
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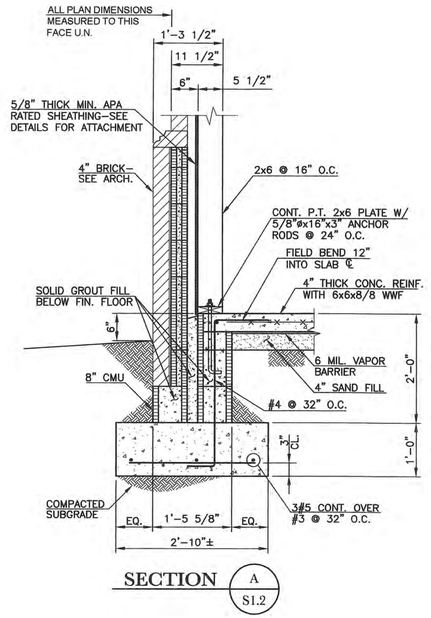
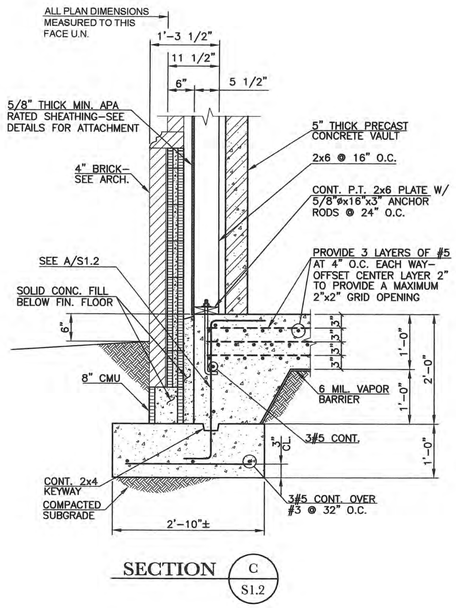
REVISIONS
PROJECT NO. 05.098
DRAWN BY GJH
SHEET NO. S1.1

A1
SCALE: 1/8" = 1'-0"
FOUNDATION PLAN



SECTION A S1.2



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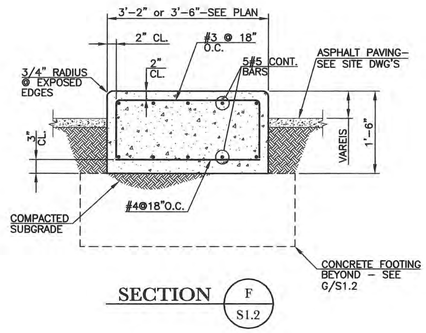

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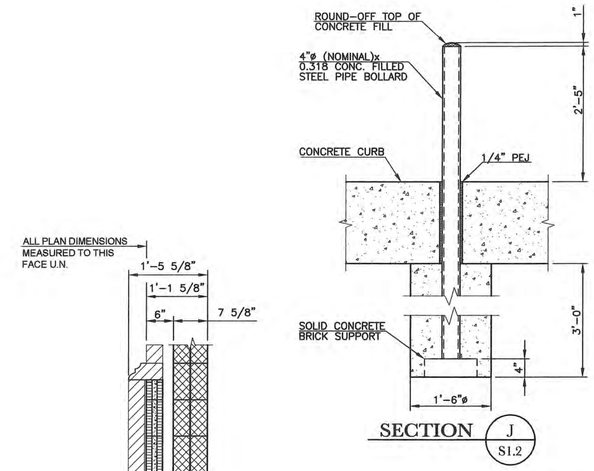

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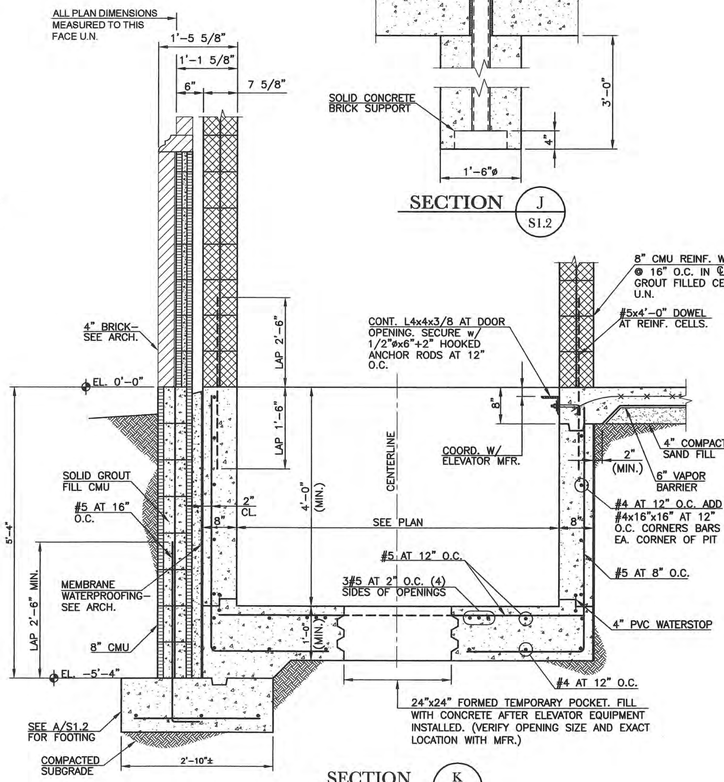

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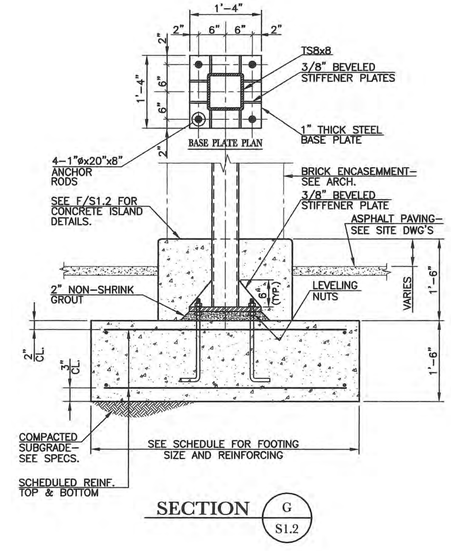

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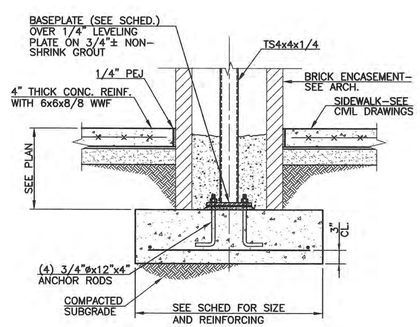

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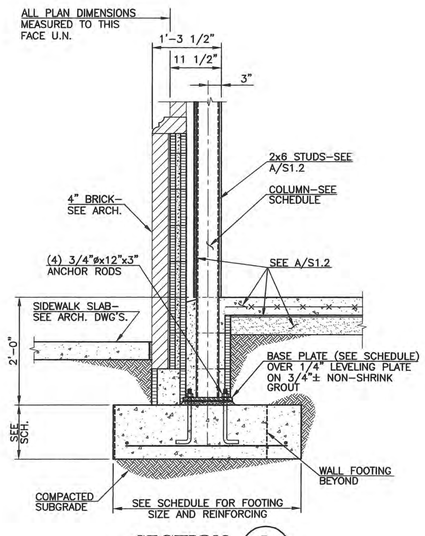

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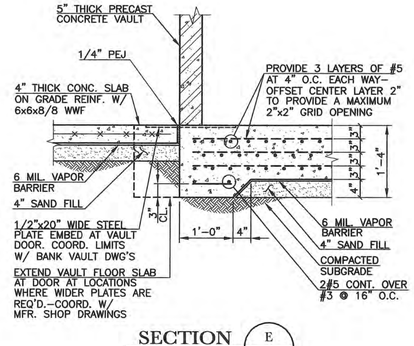

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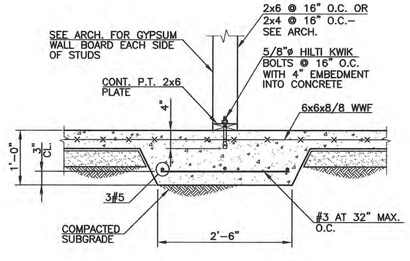
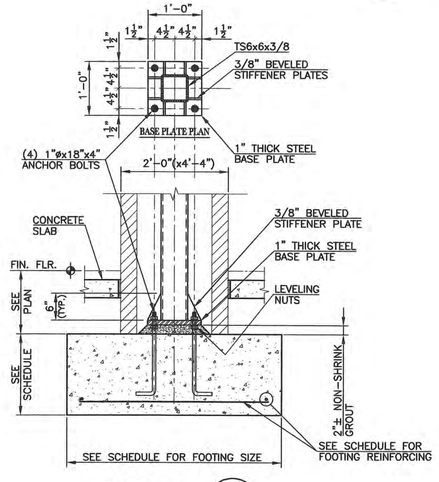


SECTION H S1.2



SECTION L S1.2

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 06076
PLOTTED: S1-2.dwg 7/21/08 1:54 pm

BMW ARCHITECTS
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planning

CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

SECTIONS

SEAL

GEORGIA REGISTERED PROFESSIONAL No. 19128 W. HUNTER SAUSSY, III
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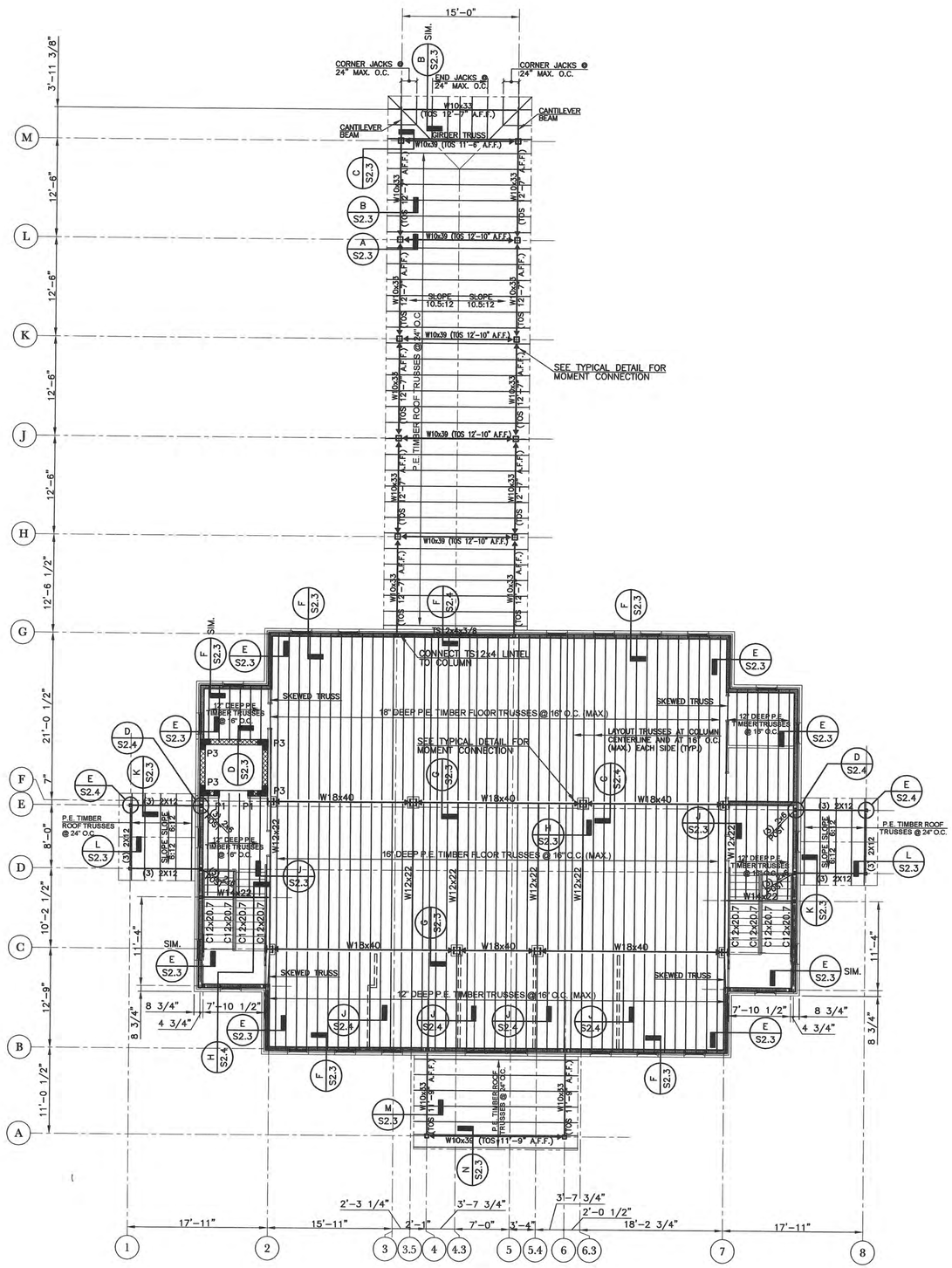
SHEET NO.	S1.2



W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 06076
PLOTTED: S2-1.dwg 7/21/06 1:54 pm

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

SECOND FLOOR FRAMING PLAN

BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT
WENTWORTH BRANCH
7224 HIGHWAY 21
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SECOND FLOOR FRAMING PLAN

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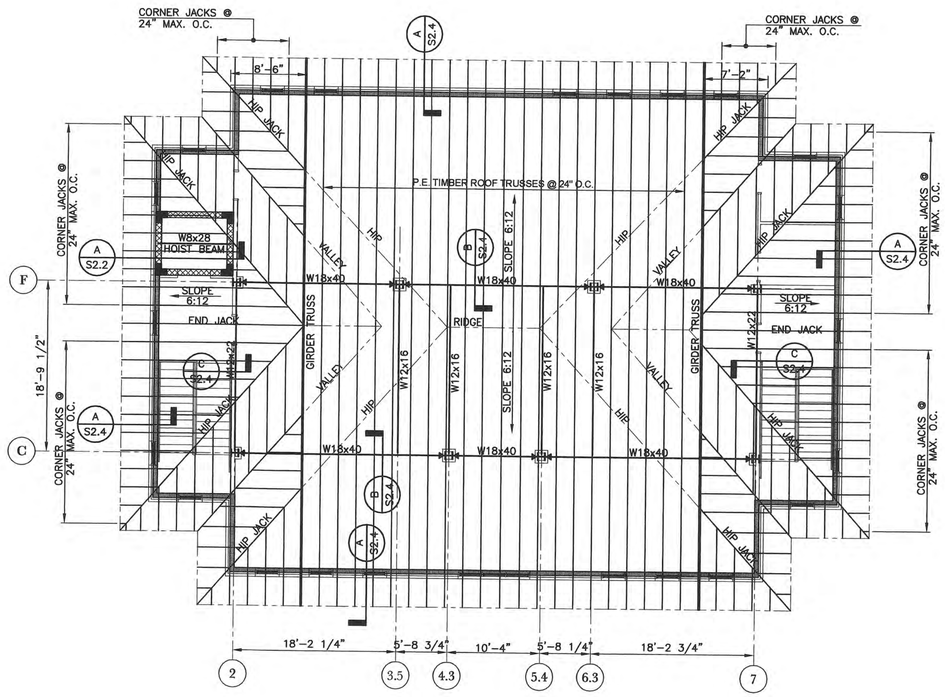
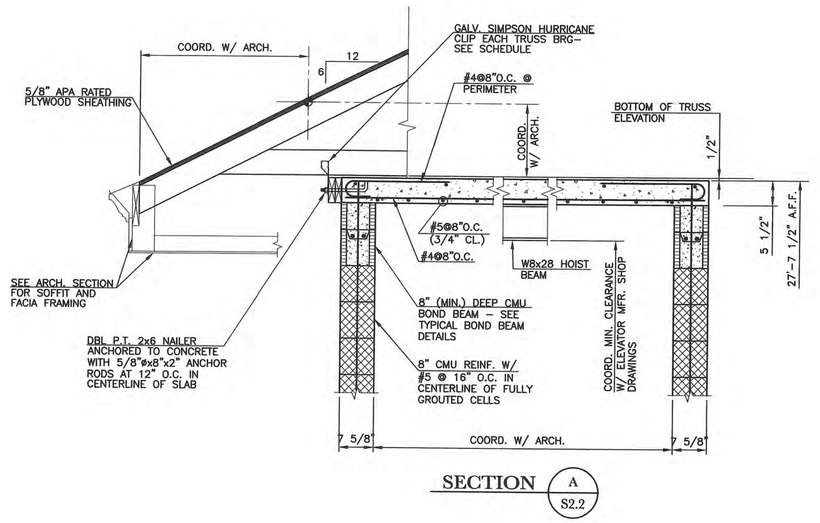
S2.1

bmwarchitects.com 31 Park of Commerce Way Suite 400 Savannah, GA 31405 p.912.447.5665 f.912.447.5664





SECTION A S2.2

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 05016
PLOTTED: S2-2.dwg 7/21/08 1:55 pm

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

ROOF FRAMING PLAN

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ROOF FRAMING PLAN

SEAL

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S2.2

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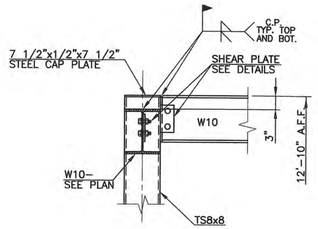

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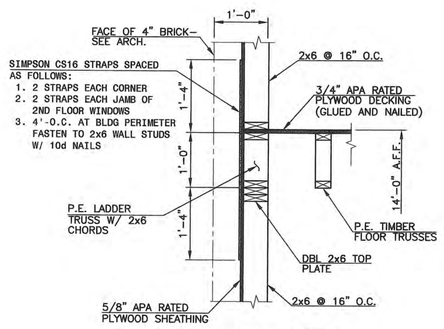

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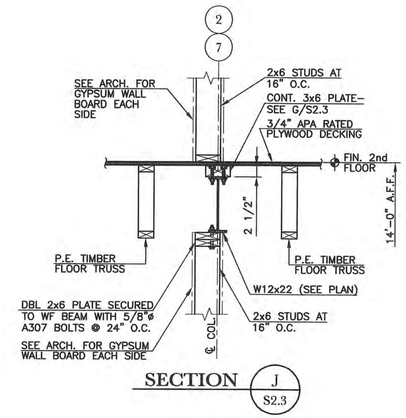

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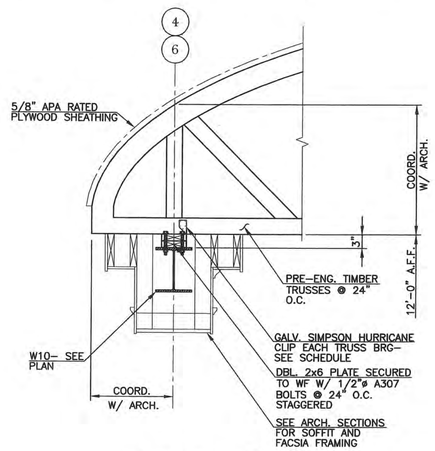

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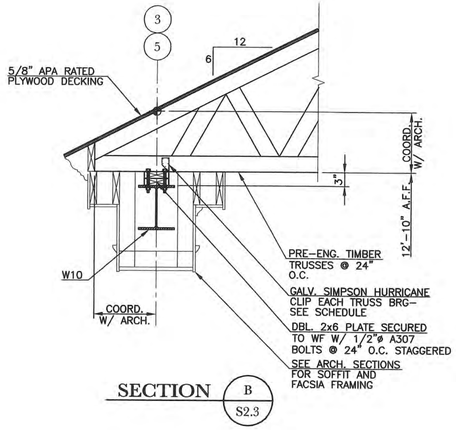

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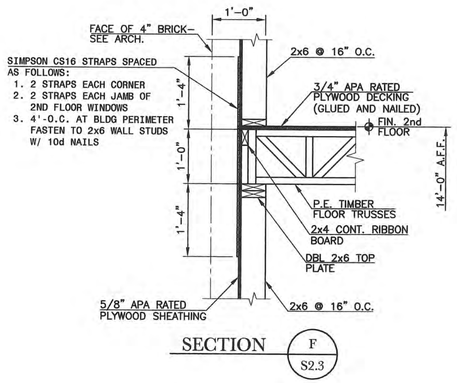

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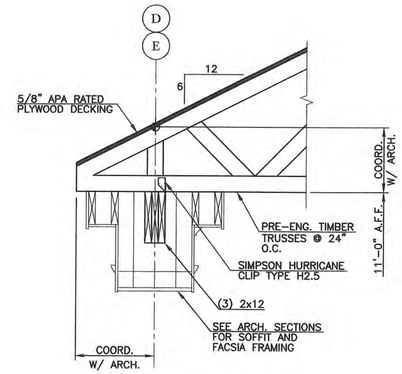

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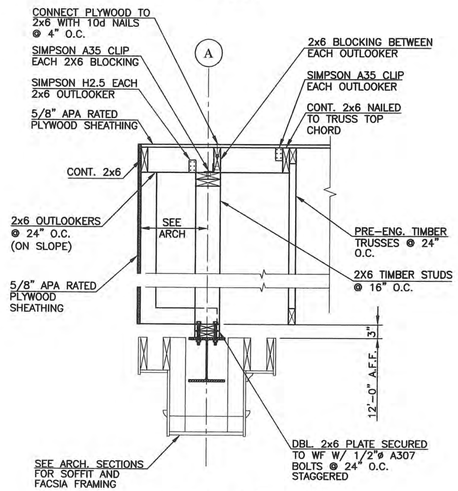

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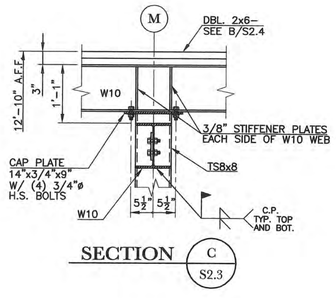

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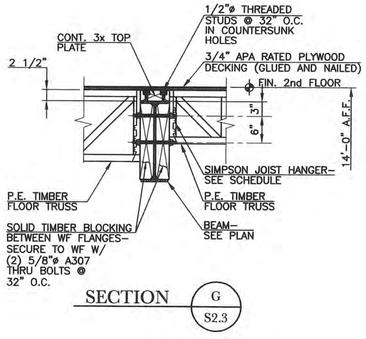

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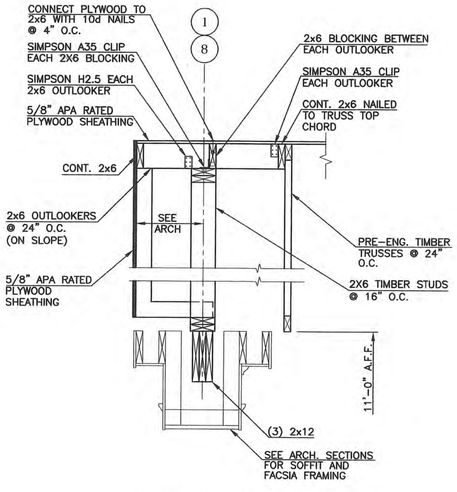

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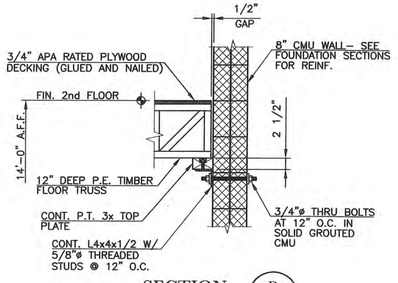

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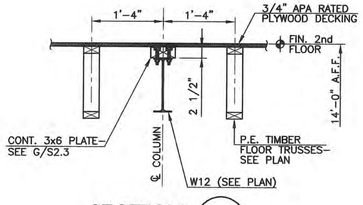

SECTION H S2.3

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 06076
PLOTTED: S2-3.dwg 7/21/06 1:57 pm

BMW ARCHITECTS
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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
7224 HIGHWAY 21
PORT WENTWORTH, GA 31407

SECTIONS

SEAL

GEORGIA * REGISTERED * No. 19136 PROFESSIONAL * W. HUNTER SAUSSY, III * Not Valid Unless Signed

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PROJECT NO. 05.098

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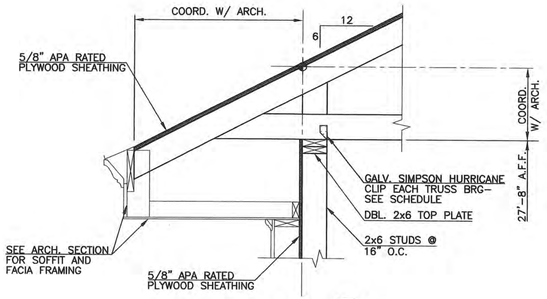
SHEET NO. S2.3



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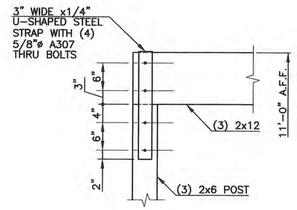

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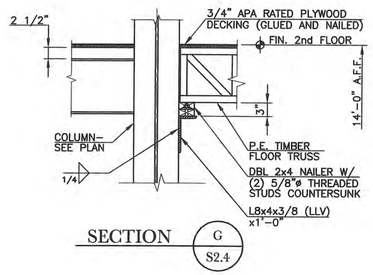

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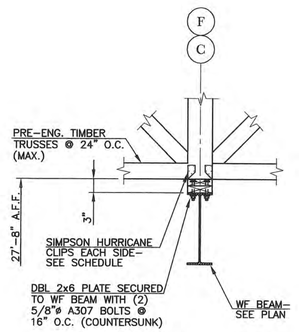

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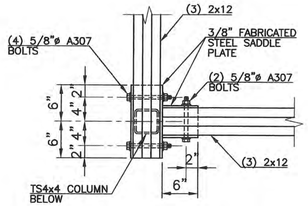

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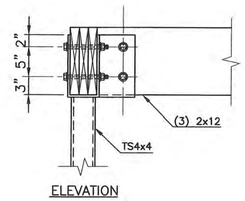

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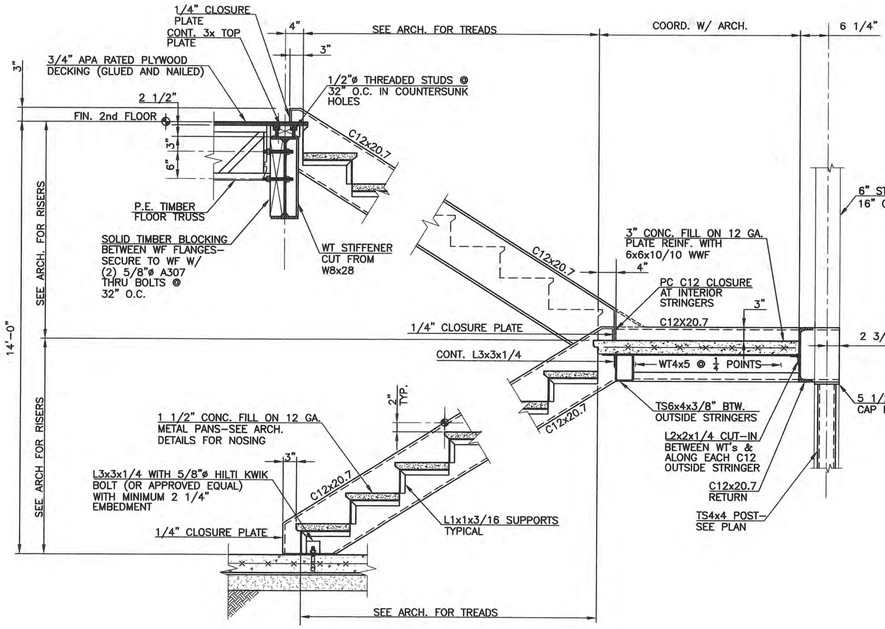

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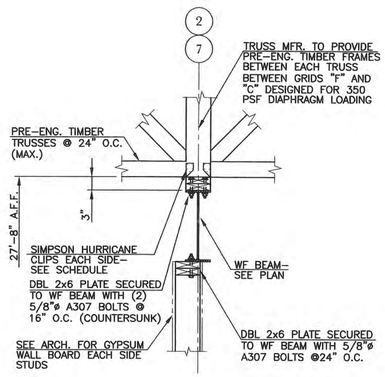

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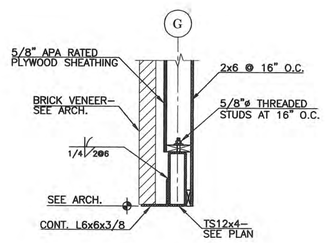

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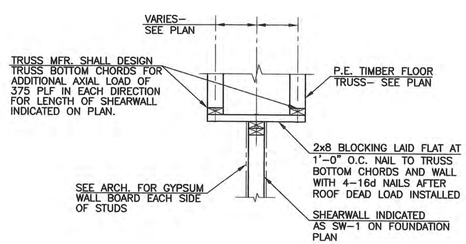

SECTION J S2.4

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
P.O. BOX 30597
SAVANNAH, GEORGIA 31410
PROJECT NO. 06076
PLOTTED: S2-4.dwg 7/21/06 1:59 pm

BMW ARCHITECTS
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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
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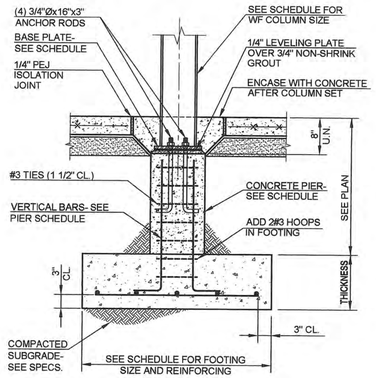
SHEET NO. S2.4



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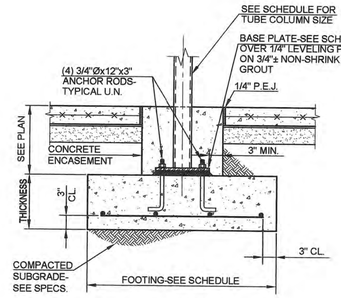
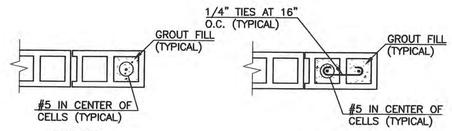


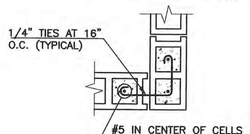
FOOTING WITHOUT PIER

TYPICAL COLUMN FOOTING DETAILS



TYPE P1
(TYPICAL INTERMEDIATE REINF.)

TYPE P2



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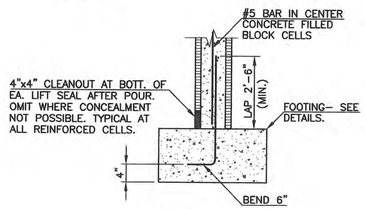
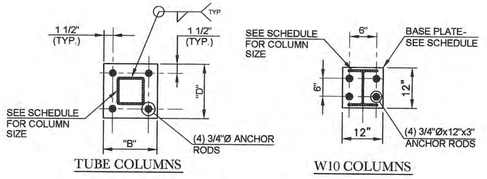


TYPICAL SECTION @ BASE OF PIER

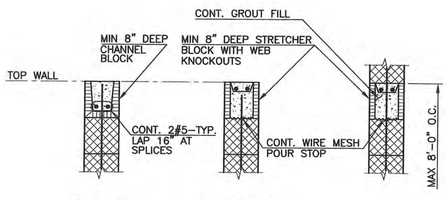
TYPICAL DETAILS FOR REINFORCED CONCRETE MASONRY PIERS



TUBE COLUMNS

W10 COLUMNS

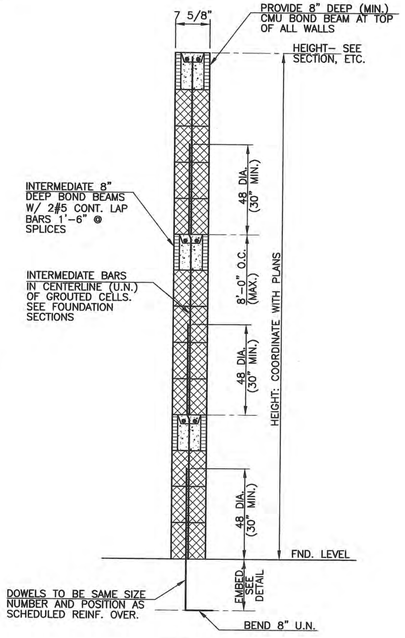
TYPICAL COLUMN BASE PLATE DETAIL



TYPICAL @ JOIST BEARINGS AND TOP OF WALLS

ALTERNATE (@ REINF. CMU)

INTERMEDIATE BOND BEAMS



8" CMU

BOND BEAM NOTES:
1. ALL CMU WALLS SHALL HAVE A BOND BEAM AT THE TOP OF THE WALL.
2. WHERE WALLS ARE 10'-0" OR HIGHER, PROVIDE BOND BEAM AT MAXIMUM 8'-0" SPACING.
3. LAP CONTINUOUS BOND BEAM REINFORCING 1'-6" AT SPLICES.
5. PROVIDE 2#5x24"x24" HORIZONTAL BARS AT CHANGES IN BOND BEAM DIRECTION.
6. WHERE BOND BEAM INTERRUPTED BY OPENINGS, BEND REINFORCING 12" INTO REINFORCED JAMBS.

TYPICAL BOND BEAM AND VERTICAL REINFORCING BAR DETAILS

COLUMN AND FOUNDATION SCHEDULE

MARK	COLUMN SIZE	COLUMN BASE PLATE (BxD)	PIER SIZE	PIER VERT. REINF.	PIER SPACG. #3 TIES	FOOTING SIZE	FOOTING DEPTH	FOOTING REINF. E.W.	NOTES:
A-4	TS6x6x3/8	12x3/4x12	–	–	–	4'-0"x6'-0"	12"	7#5 EA. WAY	
A-6	TS6x6x3/8	12x3/4x12	–	–	–	4'-0"x6'-0"	12"	7#5 EA. WAY	
B-4	TS5x5x3/8	11x5/8x11	–	–	–	4'-0"x4'-0"	12"	6#4	
B-6	TS5x5x3/8	11x5/8x11	–	–	–	4'-0"x4'-0"	12"	6#4	
C-2	W10x68	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
C-4.3	W10x77	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
C-5.4	W10x77	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
C-7	W10x68	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
D-1	TS4x4x1/4	10x5/8x10	–	–	–	4'-0"x4'-0"	12"	5#5	
D-8	TS4x4x1/4	10x5/8x10	–	–	–	4'-0"x4'-0"	12"	5#5	
E-1	TS4x4x1/4	10x5/8x10	–	–	–	4'-0"x4'-0"	12"	5#5	
E-8	TS4x4x1/4	10x5/8x10	–	–	–	4'-0"x4'-0"	12"	5#5	
F-2	W10x68	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
F-3.5	W10x77	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
F-6.3	W10x77	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
F-7	W10x68	12x3/4x12	16x16	8#5	8"	6'-0"x6'-0"	12"	7#5	
G-3	TS5x5x3/8	11x5/8x11	–	–	–	3'-6"x3'-6"	12"	6#4	
G-5	TS5x5x3/8	11x5/8x11	–	–	–	3'-6"x3'-6"	12"	6#4	
H-3	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
H-5	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
J-3	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
J-5	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
K-3	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
K-5	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
L-3	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
L-5	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
M-3	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	
M-5	TS8x8x3/8	16x1x16	–	–	–	5'-0"x5'-0"	18"	7#5	

SHOP DRAWINGS SHALL BE FURNISHED BY GENERAL CONTRACTOR INCLUDING WALL ELEVATIONS AND PLANS DETAILING FINAL LAYOUT OF ALL VERTICAL AND HORIZONTAL REINFORCING REQUIRED BY THIS SCHEDULE,SECTIONS, AND STRUCTURAL NOTES IN THESE DOCUMENTS.

W. HUNTER SAUSSY III, PC
400E JOHNNY MERCER BLVD.
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PROJECT NO. 06076
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BMW ARCHITECTS
architecture
interiors
planning

CITIZENS BANK OF EFFINGHAM PORT
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COLUMN SCHEDULE

SEAL

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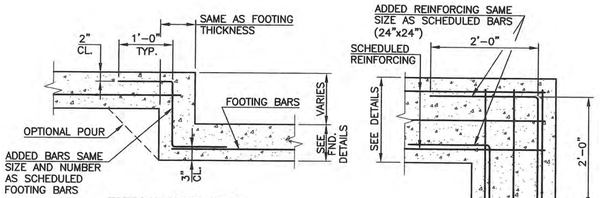
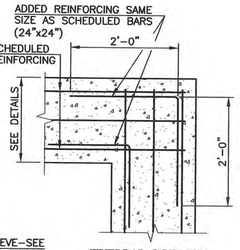
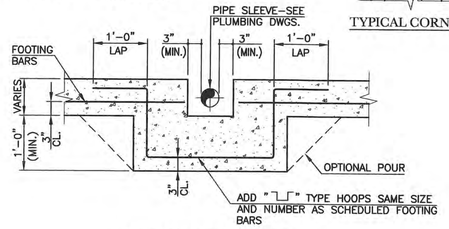
SHEET NO. S3.1



TYPICAL STEP-DOWN
(INDICATED AS ——● ON PLAN)



TYPICAL CORNER

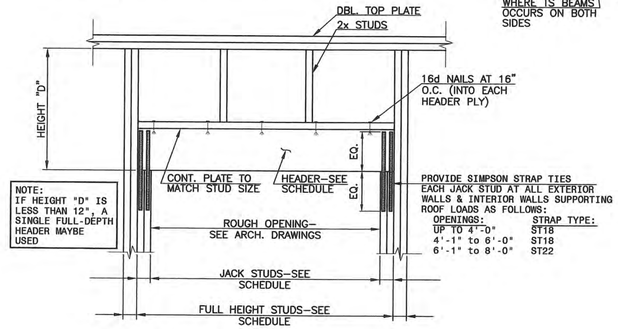


INTERFERENCE OFFSET @
GRAVITY SEWER
(COORDINATE W/ PLUMBING DRAWINGS)

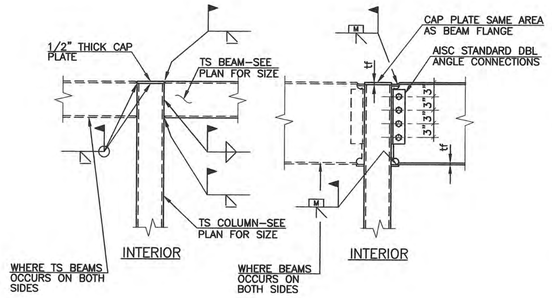
WALL FOOTING DETAILS

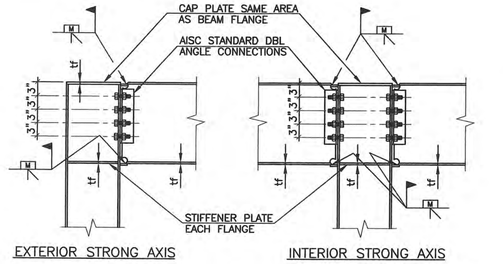
HEADER SCHEDULE

	SPAN	SECTION	SUPPORTING FLOOR OVER	SUPPORTING ROOF OVER	JAMB STUDS EA. END JACK	JAMB STUDS FULL HGT
2x4 STUDWALL	0' to 4'-0"		(2)-2x8 W/ 1/2" PLYWOOD PLATE	(2)-2x6 W/ 1/2" PLYWOOD PLATE	SINGLE	SINGLE
	4'-1" to 6'-0"		(2)-2x10 W/ 1/2" PLYWOOD PLATE	(2)-2x10 W/ 1/2" PLYWOOD PLATE	DOUBLE	DOUBLE
	6'-1" to 8'-0"		(2)-1 3/4"x11 7/8" MICROLAMS	(2)-2x12 W/ 1/2" PLYWOOD PLATE	DOUBLE	DOUBLE
2x6 STUDWALL	0' to 4'-0"		(3)-2x8 W/ 1/2" PLYWOOD PLATES	(3)-2x8 W/ 1/2" PLYWOOD PLATES	SINGLE	SINGLE
	4'-1" to 6'-0"		(3)-2x10 W/ 1/2" PLYWOOD PLATES	(3)-2x10 W/ 1/2" PLYWOOD PLATES	DOUBLE	DOUBLE
	6'-1" to 8'-0"		(3)-2x12 W/ 1/2" PLYWOOD PLATES	(3)-2x12 W/ 1/2" PLYWOOD PLATES	DOUBLE	DOUBLE

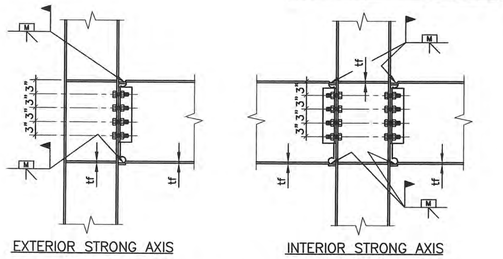


TYPICAL DETAIL AT FRAMED WALL OPENINGS





ROOF LEVEL



FLOOR LEVEL

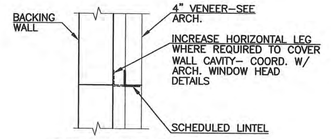
TYPICAL DETAIL AT MOMENT CONNECTIONS

(INDICATED AS ←——— ON PLAN)

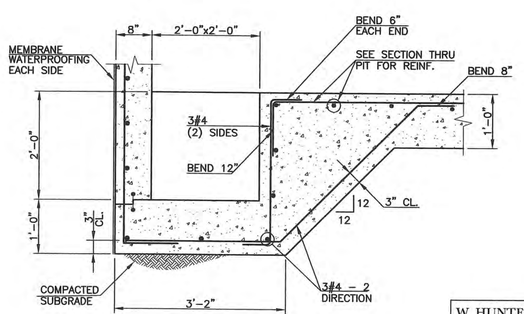
NOTES:
1. ALL BOLTS SHALL BE ASTM 3/4"Ø (MIN.) H.S. BOLTS U.N., NUMBER OF BOLTS TO BE AS REQUIRED PER SPECIFICATIONS.
2. ALL MOMENT WELDS SHALL BE TESTED PER SPECIFICATIONS.
3. DO NOT SHOP PAINT SURFACES WITHIN 3" OF AREAS TO RECEIVE MOMENT WELDS. APPLY PRIMER PAINT TO WELDED AREAS AND ADJACENT STEEL SURFACES AFTER WELDS COMPLETED AND CLEANED. SEE SPECIFICATIONS.
4. CAP PLATE AND STIFFENER PLATE STEEL GRADES SHALL MATCH THE BEAM STEEL GRADES.
   ALTERNATE: WHERE THE PLATE IS 1.4 TIMES THICKER THAN THE BEAM FLANGE, THE PLATE STEEL GRADE MAY BE A36.

BRICK LINTEL SCHEDULE

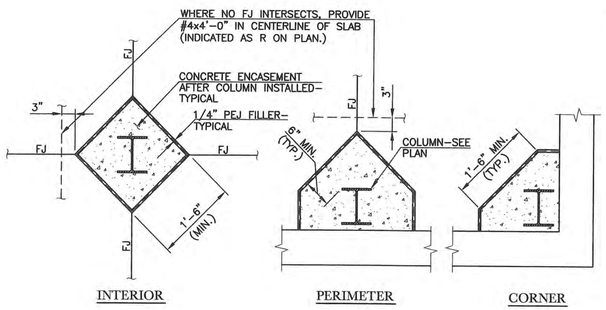
SPAN	SIZE	BEARING EA. END
MAX. 4'-0"	L3 1/2x3 1/2x5/16	6"
MAX. 6'-0"	L4x3 1/2x5/16 (LLV)	8"
MAX. 8'-0"	L6x3 1/2x5/16 (LLV)	10"
MAX. 10'-0"	L6x3 1/2x5/16 (LLV)	12"



SECTION

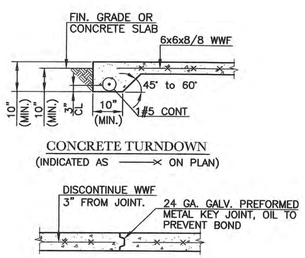


TYPICAL DETAIL AT ELEVATOR SUMP PIT

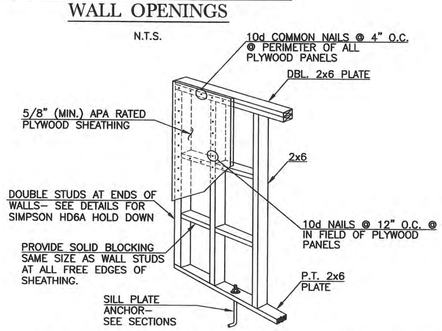


TYP. COLUMN ISOLATION JOINT DETAILS @ CONCRETE SLAB

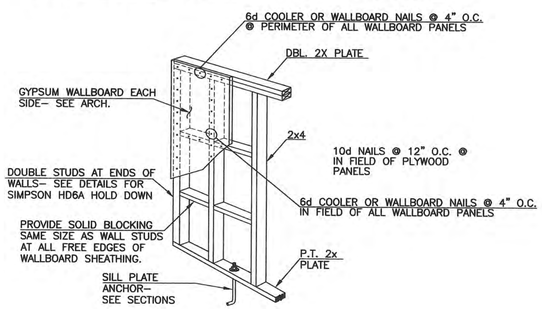
(WF COLUMNS SHOWN; TS COLUMNS SAME)



FLOOR SLAB DETAILS



SCHEMATIC EXTERIOR WALL ELEVATION



SCHEMATIC INTERIOR SHEARWALL "SW-1" ELEVATION

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TYPICAL DETAILS

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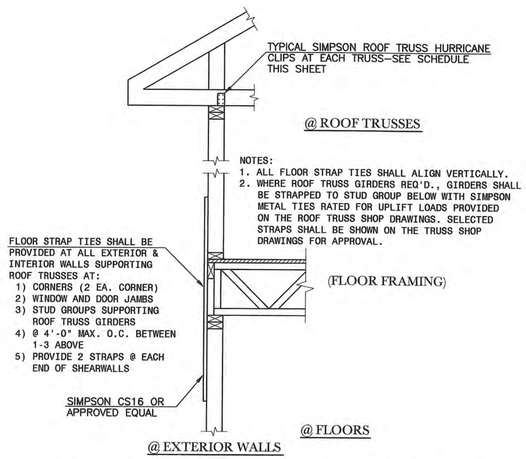


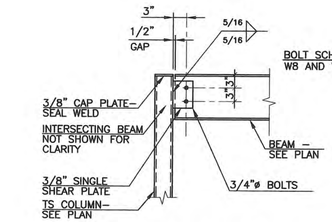
TYPICAL FLOOR/ROOF HURRICANE STRAPPING

ALTERNATE STEEL ROD ANCHORING SYSTEM

CONTRACTOR MAY SUBSTITUTE A "GO-BOLT" OR "HURRI-BOLT" PRESET ANCHOR BOLT SYSTEM FOR THE FLOOR STRAPPING REQUIREMENTS SHOWN. SYSTEM SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

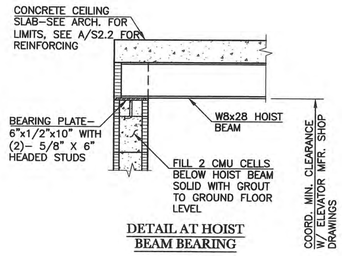
1. CONTRACTOR SHALL SUBMIT LAYOUT OF SYSTEMS FOR EACH BUILDING.
2. RODS SHALL BE PROVIDED AND ADEQUATELY SIZED TO RECEIVE WIND UPLIFT LOADS FOR PRE-ENGINEERED TIMBER ROOF TRUSSES. SPACING OF BOLTS SHALL BE DETERMINED BY MFR. BASED ON COORDINATION OF UPLIFT LOADS PROVIDED BY TRUSS MFR.
3. PROVIDE TYPICAL DETAILS OF SYSTEM WHICH SHOWS ALL CONNECTION HARDWARE, COUPLERS, ETC.

PLYWOOD SHEATHING NAILING SCHEDULE		
LOCATION	AT EACH PANEL EDGE	AT INTERIOR JOISTS OR RAFTERS
ROOF SHEATHING	8d @ 4"	8d @ 6"
FLOOR SHEATHING	8d @ 4"	8d @ 6"



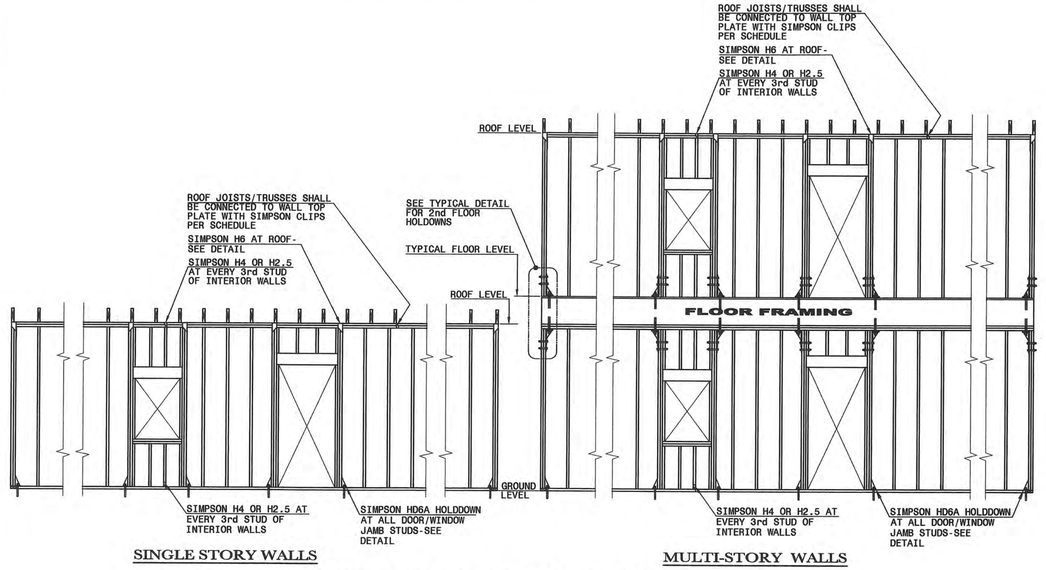
TYPICAL BEAM TO TUBE COLUMN CONNECTION

UNLESS DETAILED OTHERWISE

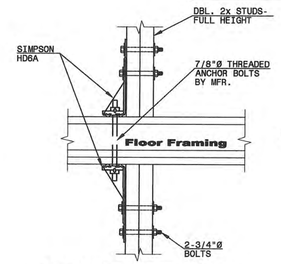


DETAIL AT HOIST BEAM BEARING

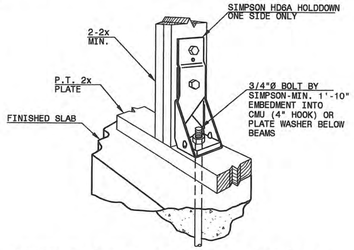
TYPICAL DETAIL AT ELEVATOR HOIST BEAM



TYPICAL WALL STRAPPING DETAIL

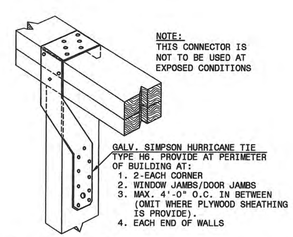


TYPICAL DETAIL @ 2nd FLOOR HOLDOWNS



TYPICAL HOLDDOWN DETAIL @ GROUND FLOOR

(CONCRETE SLAB SHOWN, DETAIL AT TIMBER FLOOR ON CMU IS SIMILAR)



TYPICAL WALL TOP PLATE TO STUD CONNECTION

TYPICAL STRAPPING DETAILS

THIS DETAIL APPLIES TO:
1. ALL EXTERIOR WALLS
2. ALL INTERIOR WALLS SUPPORTING ROOF JOIST/TRUSSES.
3. WALLS INDICATED AS SHEARWALLS.

PRE-ENGINEERED TIMBER ROOF TRUSS HURRICANE TIE SCHEDULE

LOAD (LBS.)	SIMPSON CLIP TYPE	NOTES
0-365#	H2.5	-
366#-520#	H2.5A	-
521#-780#	H10	-
781#-1050#	H14	-

NOTES:
1. WHERE NET UPLIFT VALUES AT ANY TRUSS REACTION EXCEEDS 1050#, CLIP SHALL BE AS RECOMMENDED BY SIMPSON MFR. OR AS SPECIFIED BY THE TRUSS MFR.
2. NAILS SHALL BE AS SPECIFIED BY SIMPSON.
3. SELECTION OF HURRICANES CLIPS SHALL BE DETERMINED USING THE ABOVE TABLE BASED ON NET UPLIFT REACTIONS SHOWN ON TRUSS MFR. DRAWINGS.
4. SCISSOR TRUSS SHALL BE CONNECTED WITH SIMPSON TYPE TBE CONNECTORS TO SUIT TOP PLATE SIZE AND CALCULATED UPLIFTS.

PRE-ENGINEERED TIMBER FLOOR TRUSS HANGER SCHEDULE

TRUSS DEPTH	SIMPSON TRUSS HANGER	MINIMUM RATED FLOOR REACTION (TOTAL DEAD LOAD PLUS LIVE LOAD)
12"	THA	1000 LB.
16"	THA	1500 LB.
18"	THA	1800 LB.

NOTES:
1. USE ALL SPECIFIED NAILS AS SPECIFIED BY SIMPSON FOR HANGER SELECTED FOR LOADS INDICATED.
2. SELECTION OF TRUSS HANGERS SHALL BE DETERMINED USING THE ABOVE TABLE BASED AND ON THE TRUSS REACTIONS SHOWN ON TRUSS MFR. DRAWINGS.

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BMW ARCHITECTS
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CITIZENS BANK OF EFFINGHAM PORT WENTWORTH BRANCH
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TYPICAL DETAILS

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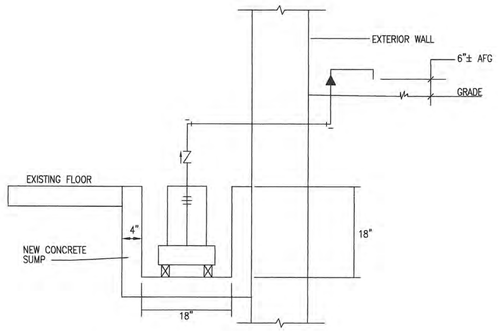
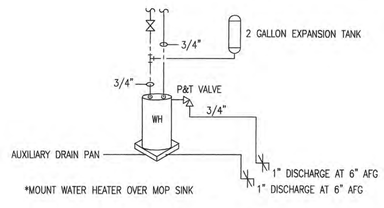
PLUMBING LEGEND

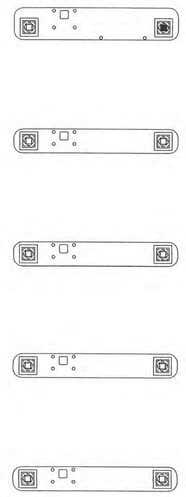
———	SAN SEWER		WATER HAMMER ARRESTOR PISTON TYPE.
– – – –	SAN VENT		FLEXIBLE CONNECTION
—— – ——	COLD WATER	WC	WATER CLOSET
—— – – ——	HOT WATER	L	LAVATORY
—— – – – ——	HOT WATER RETURN	EWC	ELECTRIC WATER COOLER
——— TP ———	TRAP PRIMER	MS	MOP SINK
——⋈——	GATE VALVE	VTR	VENT THRU ROOF
——▷⋈——	DOUBLE CHECK VALVE BACKFLOW PREVENTER	S	SINK
—o	PIPE DOWN	WH	WATER HEATER
—o	PIPE UP	CO	CLEAN OUT (F=FLOOR,G=GRADE,W=WALL)
—⊣	PIPE CAP	FD	FLOOR DRAIN
—+ HB	HOSE BIBB	AC	ABOVE CEILING
U—	P-TRAP	2CS	TWO COMPARTMENT SINK
P&T	PRESSURE/TEMPERATURE RELIEF VALVE		

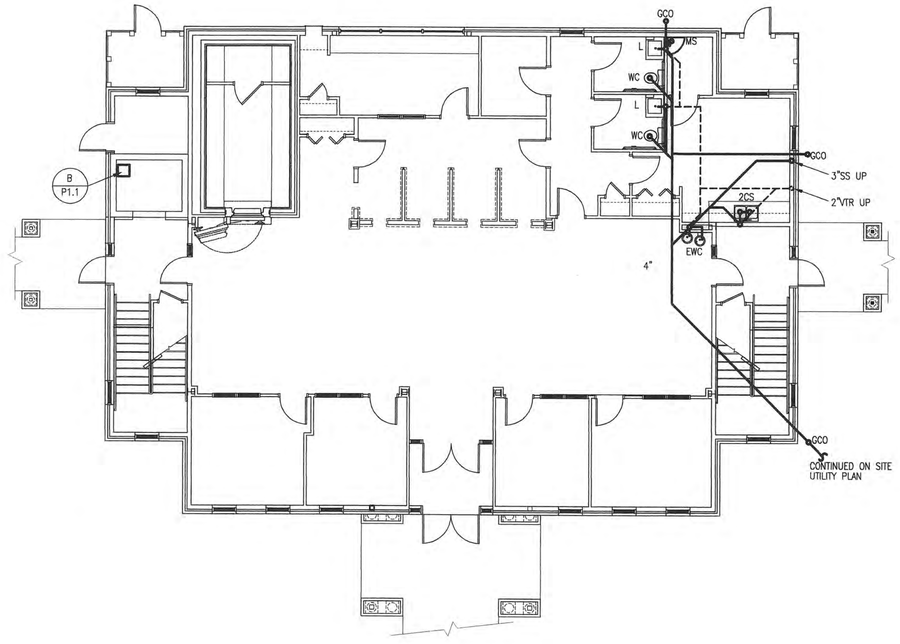


B / P1.1 SUMP PUMP DETAIL
SCALE : NTS



A / P1.1 WATER HEATER DETAIL
SCALE : NTS





PLUMBING FIXTURE SCHEDULE

SYM	DESCRIPTION	MANUFACTURER MODEL	COLD	HOT	WASTE	NOTES
WC	WATER CLOSET, ADA RATED, FLOOR MTD, TANK TYPE, 1.6GPF, VITREOUS CHINA, NOMINAL 18" SEAT HT, GRAVITY FED	KOHLER K-3427	1/2"	–	4"	1,2,11
L	LAVATORY, ADA RATED, COUNTER MTD, SELF-RIMMING, GRID DRAIN, VITREOUS CHINA, SINGLE LEVER FAUCET, 4" CENTERS	KOHLER K-2196-4	1/2"	1/2"	1-1/4"	3,4,5,10,11,14
2CS	TWO COMPARTMENT SINK, ADA RATED, COUNTER MTD, SELF-RIMMING, 18 GA STAINLESS STEEL, SINGLE LEVER FAUCET	JUST DL-ADA-2133-A-GR	1/2"	1/2"	1-1/2"	5,10,11,12,13
EWC	ELECTRIC WATER COOLER, ADA RATED, HI-LO, WALL MTD, 8.0 GPH	ELKAY ERPBM28C	1/2"	–	1-1/2"	6,9,11
EWC-1	ELECTRIC WATER COOLER, ADA RATED, HI-LO, WALL MTD, 8.0 GPH	ELKAY EZSTL8C	1/2"	–	1-1/2"	6,9,11
MS	MOP SINK, FLOOR MTD, MOLDED STONE, 24x24	ELJER 2420050	1/2"	1/2"	1-1/2"	7,11
FD	FLOOR DRAIN	JAY R. SMITH 2005YA-03-P050	–	–	3"	11
TP	TRAP PRIMER	JAY R. SMITH 2698	–	–	1/2"	–
HB	HOSE BIBB, LOOSE KEY HANDLE	CHICAGO 387-CP	3/4"	–	–	8,11
WH	WATER HEATER, 30 GALLON, 2-4.5 KW ELEMENTS, NON-SIMULTANEOUS, 36" TALL	STATE P6 30 20T4 W	3/4"	3/4"	–	–

NOTES:
1. SEAT: HEAVY DUTY SOLID PLASTIC, OPEN FRONT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE.
2. LOCATE FLUSH OPERATOR ON MOST OPEN SIDE OF FIXTURE.
3. OFFSET TAIL PIECE.
4. MOEN FAUCET #L4701.
5. P-TRAP, 17 GAUGE, CHROME PLATED BRASS.
6. PVC P-TRAP.
7. FIAT SERVICE FAUCET #830-AA.
8. IN-LINE VACUUM BREAKER & ANTI-SIPHON DEVICE, CHICAGO #E27JKCP.
9. SOLID BLOCKING IN WALL FOR FIXTURE SUPPORT.
10. ANGLE STOP(S) AND FLEXIBLE SUPPLY(IES).
11. CAULK/GROUT/SEAL FIXTURE CONTACT WITH WALL/FLOOR/COUNTER, AS APPLICABLE.
12. MOEN FAUCET #8710.
13. JUST CRUMB CUP STOPPER #J-35-STP.
14. HANDI LAV GUARD.

PLUMBING SPECIFICATION NOTES

1. ALL WORK SHALL CONFORM TO LOCAL CODES.
2. WATER LINES INSIDE BUILDING: TO 20' OUTSIDE. COPPER TYPE "L" WITH LEAD FREE SOLDER OR SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.
3. WATER LINES, WATER METER TO 20' OUTSIDE BUILDING: SCHEDULE 40 PVC WITH SOLVENT JOINTS.
4. WASTE AND VENT: SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS.
5. PROVIDE SHUT-OFF VALVES AT FIXTURES.
6. EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.
7. CAULK/SEAL ALL FIXTURE MOUNTING AT COUNTER, WALL AND FLOOR AS APPLICABLE.
8. ALL FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A UNION TYPE CONNECTION TO FACILITATE REMOVAL/SERVICE.
9. INSULATE HOT WATER LINES FROM WATER HEATER THROUGHOUT SYSTEM WITH 3/4" FIBERGLASS PREFORM OR "FR" TYPE RUBBER OR POLYOLEFIN FLEXIBLE FOAM.
10. COORDINATE WITH UTILITY COMPANIES AS REQUIRED FOR SERVICE AND METER LOCATIONS.
11. NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING:
    A. EARTH EXCAVATION OR DIGGING WORK.
    B. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.
12. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE.

GENERAL NOTE:

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#2006-104
SMITH and VANDENBULCK ENGINEERING and LANDSCAPE ARCHITECTURE CV/LAS
A DIVISION OF SAV ENGINEERING, INC.
5 OGLETHORPE PROFESSIONAL BOULEVARD, SUITE 130
SAVANNAH, GEORGIA 31406
PHONE: 912-354-5249 FACSIMILE: 912-352-8429

P1.1 FIRST FLOOR PLAN - PLUMBING WASTE
SCALE:1/8" = 1'-0"

0 4' 8' 16'

BMW ARCHITECTS
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CITIZENS BANK OF EFFINGHAM

PORT WENTWORTH BRANCH
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PORT WENTWORTH, GA 31407

FIRST FLOOR PLAN
PLUMBING WASTE

SEAL

STATE OF GEORGIA REGISTERED No. 11571 PROFESSIONAL ENGINEER P. F. VANDENBULCK

ISSUE DATE: 07-24-06

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PROJECT NO.: 05.098

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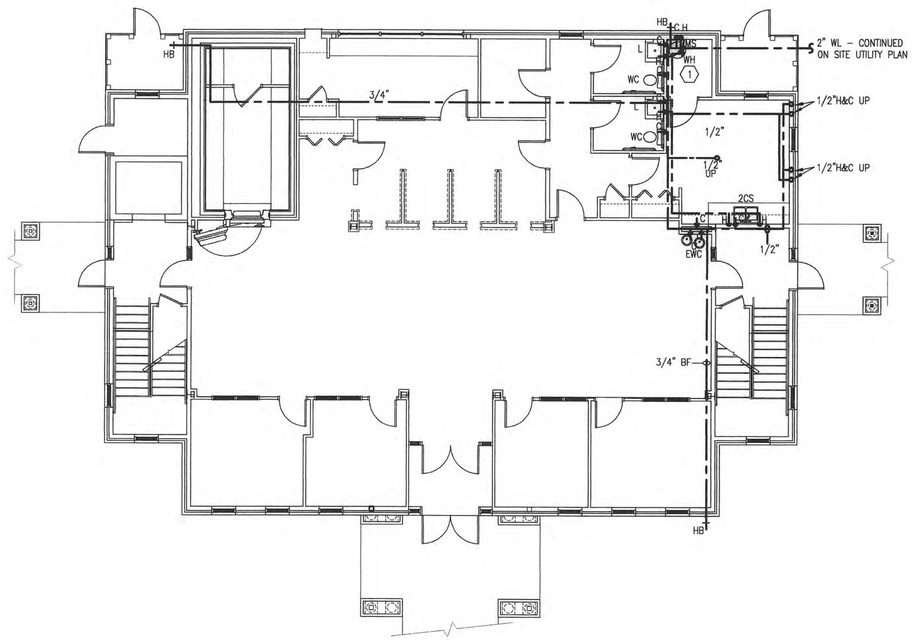
PLUMBING WATER NOTES ⬡

1. WATER HEATER IS TO BE HUNG ABOVE MOP SINK



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0 4' 8' 16'

P1.2 SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN - PLUMBING WATER

bmwarchitects.com 31 Park of Commerce Way Suite 400 Savannah, GA 31405 p. 912.447.5665 f. 912.447.5664

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FIRST FLOOR PLAN
PLUMBING WATER

SEAL

GEORGIA REGISTERED No. 11571 PROFESSIONAL ENGINEER C. S. VANDENBULCK

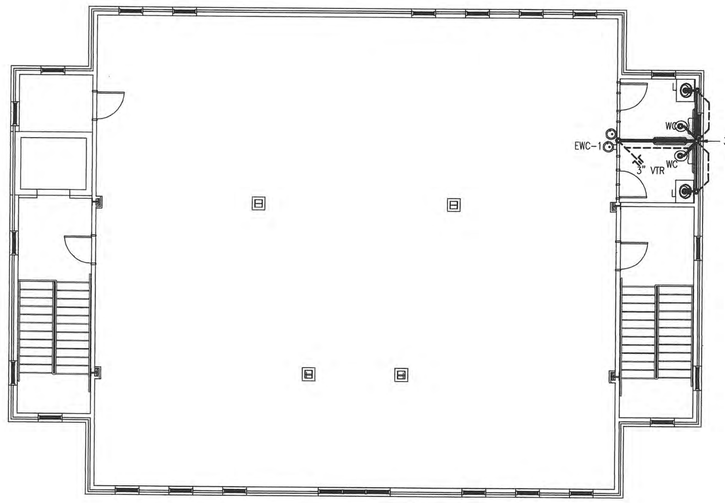
ISSUE DATE 07-24-06

REVISIONS

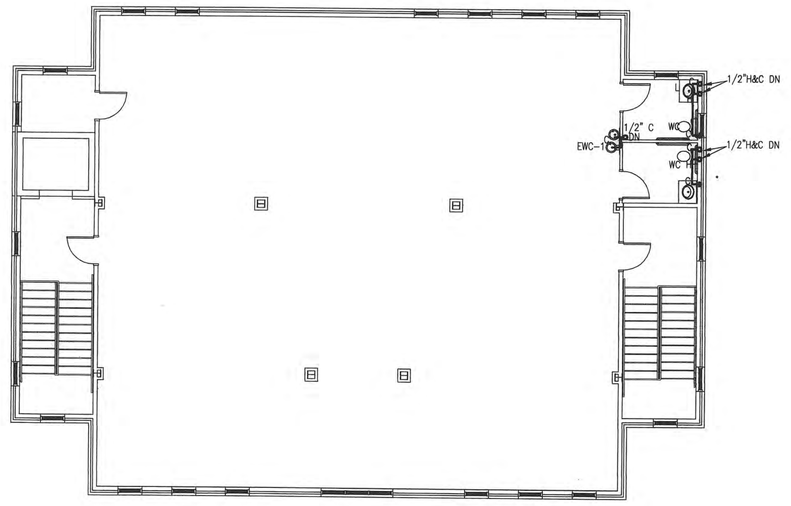
PROJECT NO. 05.098

DRAWN BY FAN

SHEET NO. P1.2



1 P2.1 SECOND FLOOR PLAN – PLUMBING WASTE
SCALE : 1/8" = 1'-0"



2 P2.1 SECOND FLOOR PLAN – PLUMBING WATER
SCALE : 1/8" = 1'-0"

GENERAL NOTE:

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P2.1 SECOND FLOOR PLAN - PLUMBING WATER AND WASTE
SCALE:1/8" = 1'-0"

0 4' 8' 16'

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SECOND FLOOR PLAN
PLUMBING WASTE
AND WATER

SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER C. VANDENBULCK

ISSUE DATE 07-24-06

REVISIONS

PROJECT NO. 05.098

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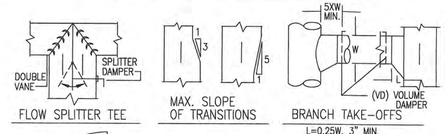
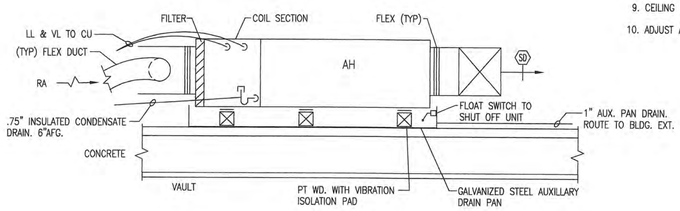


A M1.1 DUCT DETAILS
SCALE : NTS



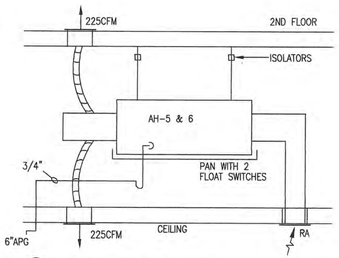
E M1.1 AIR HANDLER-1 & 2 DETAIL
SCALE : NTS

MECHANICAL SPECIFICATION NOTES

1. ALL WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES.
2. EXHAUST DUCTS: GALVANIZED STEEL.
3. A/C SUPPLY AND RETURN DUCTS:
   A. DIMENSIONS SHOWN ARE CLEAR INSIDE. DUCTS WITHOUT DIMENSIONS SHALL BE SIZED AT 0.07"/100'.
   B. RECTANGULAR AND ROUND GALVANIZED STEEL: FABRICATE PER SMACNA LOW VELOCITY DUCT STANDARDS. SEAL ALL JOINTS IN DUCT WITH APPROVED MASTIC.
   C. FLEXIBLE RUNOUTS: UL CLASS 1. ASSEMBLE WITH SOLID VINYL LINER, GALVANIZED HELICAL WIRE FORMER, 1" FIBERGLASS BLANKET WITH POLY-VAPOR BARRIER. SECURE ENDS WITH BAND CLAMPS: ONE DUCT-TO-COLLAR AND ONE OVER VAPOR BARRIER, TO SEAL OPEN SLEEVE END.
   D. INSULATION: 2" FIBERGLASS INSULATION WITH VAPOR BARRIER. SEAL SEAMS IN VAPOR BARRIER WITH 10 X 10 MESH GLASS FABRIC AND MASTIC.
   E. DUCT LINER: 1" THICKNESS, COATED AIRSIDE, K=0.24. INSTALL WITH 100% ADHESIVE COVERAGE. PROVIDE MECHANICAL FASTENERS ON 15" CENTERS ON TOP AND SIDE OF DUCTWORK WITH DIMENSIONS EXCEEDING 20". SEAL AND SMOOTH JOINTS WITH MASTIC.
4. AIR DISTRIBUTION ACCESSORIES: TURNING VANES: DOUBLE WALL TYPE. SPIN-IN CONNECTIONS WITH SCOOP AND DAMPER.
5. REFRIGERATION TUBING: COPPER.
6. CONDENSATE PIPING: PVC.
7. PIPE INSULATION : CLOSED CELL TUBULAR FIRE RATED FLEXIBLE FOAM RUBBER OR POLYOLEFIN.
   SUCTION LINES : 3/4" THICKNESS.
   CONDENSATE LINES: 1/2" THICKNESS.
8. SUPPLY AND RETURN AIR DIFFUSERS:
   CEILING: PERFORATED FACE, 2x2 LAY-IN
   WALL : DOUBLE DEFLECTION.
9. CEILING RETURN AND EXHAUST AIR GRILLES: FIXED BLADE 38°.
10. ADJUST AND BALANCE TO AIR FLOWS AS SHOWN ON PLAN.

MECHANICAL LEGEND

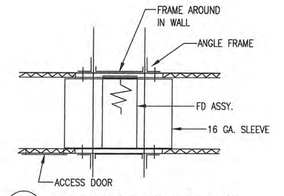
	AIR RETURN DUCT/GRILLE	A/C	AIR CONDITIONING SYSTEM
	AIR SUPPLY DUCT/DIFFUSER	RTU	ROOF TOP A/C UNIT
	EXHAUST FAN DUCT/GRILLE	AHU	AIR HANDLING UNIT
SD	SMOKE DETECTOR	AH	AIR HANDLER
SD	DUCT MTD. SMOKE DETECTOR	CU	CONDENSING UNIT/OR COMPRESSOR UNIT
T	THERMOSTAT	EF	EXHAUST FAN
	FLEXIBLE DUCT	UH	UNIT HEATER
	AIR FLOW DIRECTION	CFM	CUBIC FEET PER MINUTE
	DUCT SIZE TRANSITION	VD	VOLUME DAMPER
ø	ROUND DUCT, SIZE NOTED.	OA	OUTSIDE AIR
	FAN MOTOR OR PUMP	FD	FIRE DAMPER
RA	RETURN AIR	SD	SMOKE DAMPER
SA	SUPPLY AIR	BBH	BASE BOARD HEATER



F M1.1 AIR HANDLER-5 & 6 DETAIL
SCALE : NTS

HVAC NOTES

1. POSITION AH-1 & 2 WITH DUCTS ABOVE VAULT. ROUTE RA DUCT AT AH-2 TO ALLOW 3'+ CLEAR FOR AH SERVICE.
2. 12X16 BRICK VENT WITH 2-6'ø O.A. DUCTS FOR AH-1 & 2.



C M1.1 FIRE DAMPER INSTALLATION DETAIL
SCALE : NTS

EXHAUST FAN SCHEDULE

SYMB.	AREA SERVED	CFM	SP IN. H 2 0	RPM MAX.	DRIVE	WATTS (HP)	ELECT V/ø/HZ	SONES	MOUNT	OPTIONS	CONTROL	GREENHECK MODEL
EF-1	TOILET	75	0.25	950	DIRECT	49	120/1/60	1.6	CLG	1,2	A	SP-A110
EF-2	ELECT/ELEV ROOM	200	0.5	1050	DIRECT	81	120/1/60	4.1	CLG	2	B	SP-A290

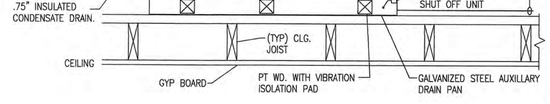
OPTIONS:
1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3.

CONTROL
A. LIGHT SWITCH
B. LINE-V THERMOSTAT "ON" INCR. SET 80°F.

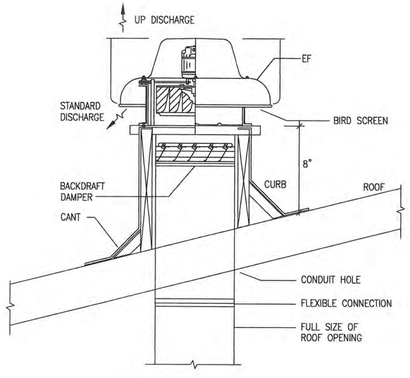
AIR CONDITIONING EQUIPMENT SCHEDULE

UNIT NO.	NOMINAL COOLING TONS (T)	MIN. SEER	INDOOR FAN CFM	INDOOR FAN HP	OA CFM	SYS ESP IN WC	COOLING TOTAL MBH	COOLING SENS MBH	COOLING STGS	HEATING MIN COP	HEATING REV CYC MBH	HEATING AUX. STRIP HEAT KW	HEATING AUX. STRIP HEAT STGS	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	NOM WT LBS	DESIGN BASIS MFR & MODEL #	NOTES
AH-1	–	–	2000	3/4	200	0.7	59	50	2	3.2	58	11.3	1	208	1	76.3	80	–	CARRIER FX4CNF060	1
	5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CU-1	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	34.0	50	–	CARRIER 25HCA360	–
AH-2	–	–	2000	3/4	200	0.7	59	50	2	3.2	58	11.3	1	208	1	76.3	80	–	CARRIER FX4CNF060	1
	5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CU-2	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	34.0	50	–	CARRIER 25HCA360	–
AH-3	–	–	2000	3/4	200	0.7	59	50	2	3.2	58	11.3	1	208	1	76.3	80	–	CARRIER FX4CNF060	1
	5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
AH-3	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	34.0	50	–	CARRIER 25HCA360	–
AH-4	–	–	2000	3/4	200	0.7	59	50	2	3.2	58	11.3	1	208	1	76.3	80	–	CARRIER FX4CNF060	1
	5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
AH-4	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	34.0	50	–	CARRIER 25HCA360	–
AH-5	–	–	450	1/8	–	0.2	24	20	1	3	24	3	1	208	1	15	20	–	FIRST COMPANY 18HXC	1
	1.5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
AH-5	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	–	20	–	FIRST COMPANY WCH18	–
AH-6	–	–	450	1/8	–	0.2	24	20	1	3	24	3	1	208	1	15	20	–	FIRST COMPANY 18HXC	1
	1.5	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
AH-6	–	–	–	–	–	–	–	–	–	–	–	–	–	208	1	–	20	–	FIRST COMPANY WCH18	–

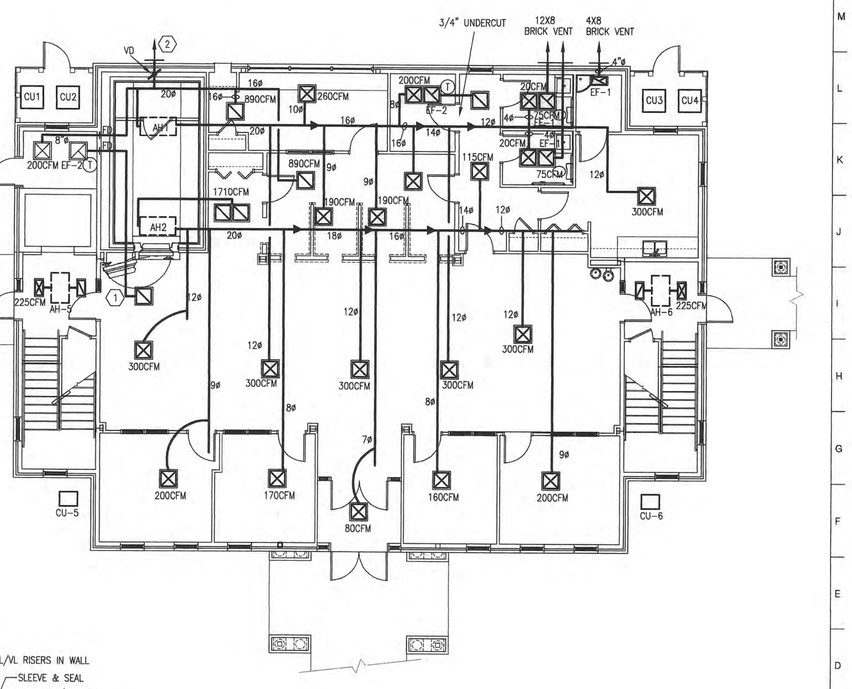
NOTES:
1. PROGRAMABLE THERMOSTAT/THERMIDISTAT (TYPICAL)
2.
3.

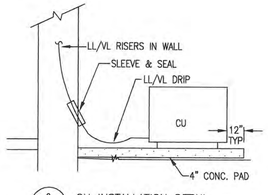


D M1.1 AIR HANDLER-3 &4 DETAIL
SCALE : NTS



B M1.1 EXHAUST FAN DETAIL
SCALE : NTS





G M1.1 CU INSTALLATION DETAIL
SCALE : NTS

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0 4' 8' 16'

M1.1
SCALE:1/8" = 1'-0"
FIRST FLOOR PLAN - HVAC

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FIRST FLOOR PLAN
HVAC

SEAL
GEORGIA REGISTERED PROFESSIONAL ENGINEER C. P. VANDENBULCK

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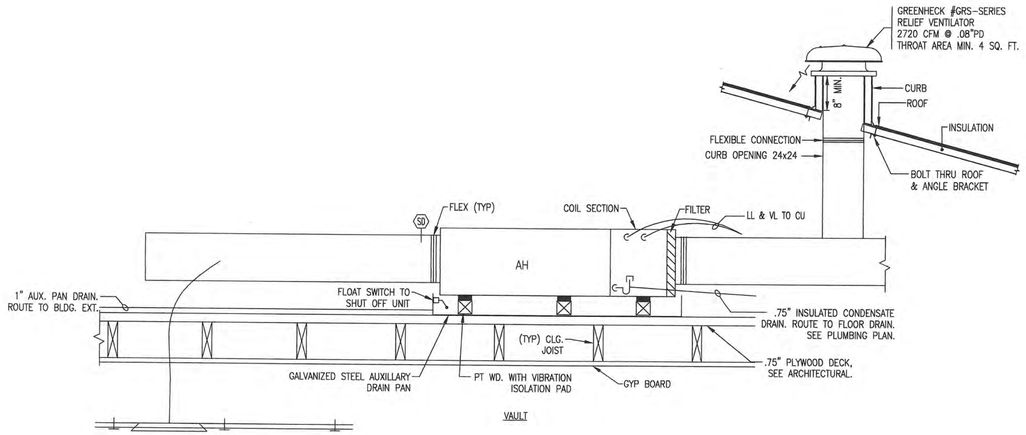
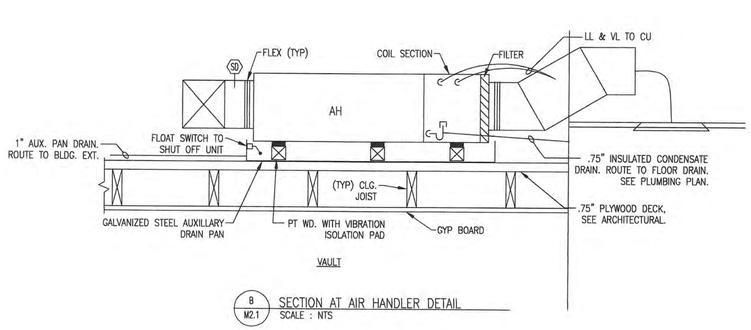
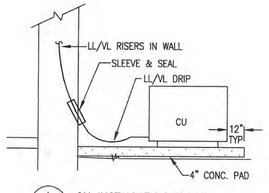


C / M2.1 SECTION AT AIR HANDLER DETAIL
SCALE : NTS



B / M2.1 SECTION AT AIR HANDLER DETAIL
SCALE : NTS



A / M2.1 CU INSTALLATION DETAIL
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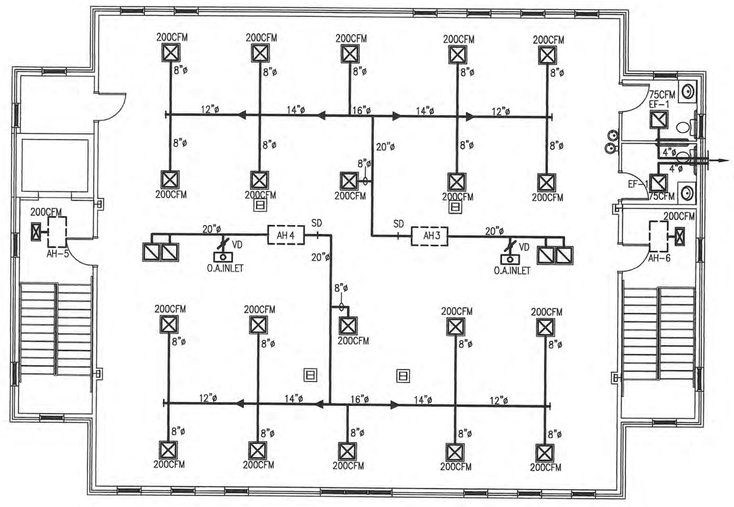

1 / M2.1 SECOND FLOOR PLAN – HVAC
SCALE : 1/8" = 1'-0"

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SECOND FLOOR PLAN
HVAC

SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER C. F. VANDENBULCK

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M2.1 SECOND FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

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PANEL A
120/208 V, 3 P, 4 W, S/N, 400 A MCB
SURFACE MOUNTING, 84 TOTAL SPACES, - SECTIONS

MCB A. I. C. --
BRANCH CB A. I. C. 10,000
WITH GROUND BAR --

MINIMUM UL LISTED
MINIMUM SERIES-RATED

C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION	C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION
1	1	20	1.0	DRIVE THRU	2	1	20	1.5	RECEPTACLES – REST ROOMS
3	1	20	1.0	DRIVE THRU – ATM	4	1	20	1.5	RECEPTACLES – BREAK ROOM
5	1	20	1.0	DRIVE THRU – ATM	6	1	20	1.5	RECEPTACLES – BREAK ROOM
7	1	20	1.0	DRIVE THRU	8	1	20	1.5	RECEPTACLES – BREAK ROOM
9	1	20	1.0	DRIVE THRU	10	1	20	1.0	RECEPTACLES – EWC
11	1	20	1.0	DRIVE THRU	12	1	20	1.0	RECEPTACLES – LOBBY
13	1	20	1.0	DRIVE THRU	14	1	20	1.2	RECEPTACLES – OFFICE
15	1	20	0.8	RECEPTACLES – TELLER LINE	16	1	20	1.2	RECEPTACLES – OFFICE
17	1	20	0.8	RECEPTACLES – TELLER LINE	18	1	20	1.0	RECEPTACLES – OFFICE
19	1	20	0.8	RECEPTACLES – TELLER LINE	20	1	20	1.2	RECEPTACLES – OFFICE
21	1	20	0.8	RECEPTACLES – TELLER LINE	22	1	20	1.2	RECEPTACLES – ELEVATOR PIT
23	1	20	0.8	RECEPTACLES – TELLER LINE	24	1	20	1.0	RECEPTACLES – ELEVATOR EQ ROOM
25	1	20	0.8	RECEPTACLES – TELLER LINE	26	1	20	0.6	ELEVATOR LIGHTS
27	1	20	0.8	RECEPTACLES – CU YD	28	1	20	1.2	LOBBY LIGHTS
29	1	20	0.8	EXT LIGHTS VIA P/C	30	1	20	1.2	LOBBY LIGHTS
31	1	20	1.8	DRIVE THRU LIGHTS	32	1	20	–	SPARE
33	1	20	–	LANE LIGHTS	34	1	20	0.8	SECURITY SYSTEM
35	1	20	0.8	LIGHTS	36	1	20	1.0	LOBBY LIGHTS
37	1	20	0.8	STAIR LIGHTS	38	1	20	0.8	STAIR LIGHTS
39	1	20	1.2	LIGHTS	40	1	20	–	SPARE
41	1	20	–	SPARE	42	1	20	–	SPARE
43	3	150	41	PANEL B	44	1	20	–	SPARE
45	↓	↓	↓	↓	46	1	20	–	SPARE
47	↓	↓	↓	↓	48	1	20	–	RECEPTACLE – TTB
49	2	60	7.0	CU-3	50	2	60	7.0	CU-4
51	↓	↓	↓	↓	52	↓	↓	↓	↓
53	2	60	7.0	CU-1	54	2	60	7.0	CU-2
55	↓	↓	↓	↓	56	↓	↓	↓	↓
57	2	70	13.0	AH-1	58	2	70	13.0	AH-2
59	↓	↓	↓	↓	60	↓	↓	↓	↓
61	2	20	–	CU-5	62	2	20	–	CU-6
63	↓	↓	↓	↓	64	↓	↓	↓	↓
65	2	30	–	AH-5	66	2	30	–	AH-6
67	↓	↓	↓	↓	68	↓	↓	↓	↓
69	–	–	–	–	70	–	–	–	–
71	–	–	–	–	72	–	–	–	–
73	–	–	–	–	74	–	–	–	–
75	–	–	–	–	76	–	–	–	–
77	–	–	–	–	78	–	–	–	–
79	–	–	–	–	80	–	–	–	–
81	–	–	–	–	82	–	–	–	–
83	–	–	–	–	84	–	–	–	–

POWER NOTES

1. LOCATE FLOOR BOX PER ARCHITECTUAL DIRECTION.
2. ROUTE POWER AND TELEPHONE THRU CASE WORK TO WALL J-BOX.
3. J-BOXES IN WALL FOR TELLER, TEL/DATA, POWER.
4. TO ELEVATOR SERVICE. SEE RISER DIAGRAM.

PANEL B
120/208 V, 3 P, 4 W, S/N, 150 A MLO
SURFACE MOUNTING, 36 TOTAL SPACES, - SECTIONS

MCB A. I. C. --
BRANCH CB A. I. C. --
WITH GROUND BAR --

MINIMUM UL LISTED
MINIMUM SERIES-RATED

C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION	C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION
1	1	20	0.8	RECEPTACLES	2	1	20	1.0	CEILING J-BOX
3	1	20	–	RECEPTACLES	4	1	20	1.0	CEILING J-BOX
5	1	20	–	RECEPTACLES – TOILET ROOM	6	1	20	1.0	CEILING J-BOX
7	1	20	–	RECEPTACLES	8	1	20	1.0	CEILING J-BOX
9	1	20	–	RECEPTACLES	10	1	20	–	CEILING J-BOX
11	1	20	–	LIGHTS – TOILET ROOM	12	1	20	–	RECEPTACLE – EWC
13	1	20	–	LIGHTS	14	1	20	–	SPARE
15	1	20	–	LIGHTS	16	1	20	–	SPARE
17	1	20	–	LIGHTS	18	1	20	–	SPARE
19	1	20	–	SPARE	20	1	20	–	SPARE
21	1	20	–	SPARE	22	1	20	–	SPARE
23	1	20	–	SPARE	24	1	20	–	SPARE
25	1	20	–	SPARE	26	1	20	–	SPARE
27	2	30	4.5	WATER HEATER	28	1	20	–	SPARE
29	↓	↓	↓	↓	30	1	20	–	SPARE
31	3	70	13	AH-3	32	3	70	13	AH-4
33	↓	↓	↓	↓	34	↓	↓	↓	↓
35	↓	↓	↓	↓	36	↓	↓	↓	↓

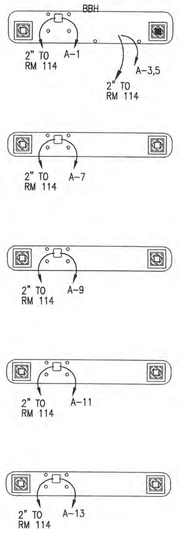
ELECTRICAL SPECIFICATION NOTES

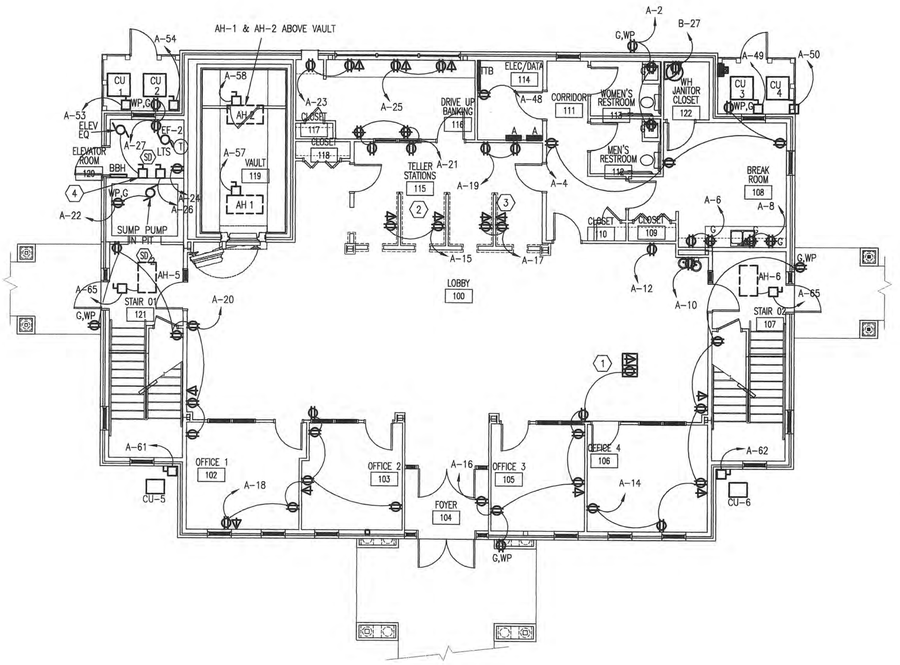
1. ALL WORK SHALL CONFORM TO LOCAL CODES.
2. CONDUCTORS: COPPER WITH THW OR THWN INSULATION UNLESS OTHERWISE NOTED.
3. WIRE METHODS: THW OR THWN IN CONDUIT. TYPE 'MC' CABLE MAY BE USED WHERE CONCEALED.
4. RACEWAYS: ABOVE SLAB OR GRADE:
   INTERIOR: EMT WITH STEEL COMPRESSION OR SET SCREW FITTING.
   EXTERIOR: EMT WITH STEEL COMPRESSION FITTINGS AND SEALTITE WITH COMPATIBLE FITTINGS.
5. RACEWAYS BELOW SLAB OR GRADE: SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS AND FITTINGS. USE GALVANIZED STEEL ELBOWS ON 1-1/2" AND LARGER CONDUIT.
6. PROVIDE GROUNDING CONDUCTORS IN ALL CONDUIT.
7. DEVICES SHALL BE SPECIFICATION GRADE IVORY COLOR, UNLESS NOTED OTHERWISE. DEVICE COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH DEVICE COLOR.
8. DISCONNECT SWITCHES:
   OUTDOOR: NEMA 3R, HEAVY DUTY RATINGS AS NOTED.
   INDOOR : GENERAL DUTY NEMA 1, RATINGS AS NOTED.
9. PANELBOARDS:
   INDOOR : NEMA 1 WITH PLATED ALUMINUM OR COPPER BUSSES ARRANGED FOR DISTRIBUTED PHASE CONNECTIONS, FULL NEUTRAL BUS, ISOLATED GROUND BAR, PLUG-IN BRANCH AUTOMATIC CIRCUIT BREAKERS, BOLT-ON MAIN AUTOMATIC CIRCUIT BREAKERS. QUANTITY, POLES, TRIP RATING SHOWN.
   OUTDOOR: SAME AS INDOOR, EXCEPT IN NEMA 3R ENCLOSURE
10. LUMINAIRES SHALL BE SUPPLIED COMPLETE WITH LAMPS AND ALL NECESSARY HANGERS, HARDWARE AND TRIM.
11. INSTALL TYPEWRITTEN CIRCUIT DIRECTORY ON EACH PANELBOARD COVER INTERIOR SHOWING THE "AS WIRED" CONDITION, AFTER WIRING IS COMPLETE.
12. COORDINATE WITH UTILITY COMPANY AS REQUIRED FOR SERVICE CONNECTION AND METER LOCATION.
13. IF EQUIPMENT SELECTED REQUIRES SPECIAL CIRCUIT BREAKER OR FUSE PROTECTION, OTHER THAN SHOWN, CONTRACTOR SHALL SUPPLY AND INSTALL IT.
14. EQUIPMENT CONNECTIONS SHALL BE MADE WITH SHORT SECTION OF FLEXIBLE CONDUIT (SEALTITE IN EXTERIOR LOCATIONS) USING COMPATIBLE FITTINGS.
15. JUNCTION AND OUTLET BOXES, INTERIOR: GALVANIZED STEEL.. EXTERIOR: CAST ALLOY
16. NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING:
    1. EARTH EXCAVATION OR DIGGING WORK.
    2. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.
17. NOTIFY ALL RESPECTIVE UTILITY COMPANY(IES) WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE.

ELECTRICAL LEGEND

RECEPTACLE, DUPLEX, WALL MTD 16" AFF TO BOTTOM	
RECEPTACLE, DUPLEX, WALL MTD COORD HEIGHT WITH CASEWORK/COUNTER	
WP RECEPTACLE, DUPLEX, WEATHERPROOF	
G RECEPTACLE, DUPLEX, GROUND FAULT INTERRUPTER	
RECEPTACLE, 240V, 3 WIRE, RATING NOTED	
RECEPTACLE, DUPLEX, FLOOR BOX	
TELEPHONE/DATA OUTLET, FLOOR BOX	
RECEPTACLE, QUAD, WALL MTD 16" AFF TO BOTTOM	
TELEPHONE OUTLET	
DATA OUTLET	
TELEPHONE/DATA OUTLET	
S,$ SWITCH, 125V, 20A, WALL MOUNTED	
S_3 THREE WAY SWITCH, WALL MOUNTED	
DS DOOR ACTIVATED SWITCH	
MOTOR	
RACEWAY IN WALLS OR CEILING OR EXPOSED	
PANEL BOARD	
HOMERUN TO PANEL BOARD, NUMBER IS CKT. # NUMBER OF MARKS IS NUMBER OF WIRES	
DISCONNECT SWITCH, AMPS/POLES/FUSE NOTED. ENCLOSURE	
ELECTRIC METER	
AH AIR HANDLING UNIT	
WH WATER HEATER	
EWC ELECTRIC WATER COOLER	
EM EMERGENCY	
WP WEATHER PROOF	
MH MOUNTING HEIGHT	
AFF ABOVE FINISHED FLOOR	
NL NIGHT LIGHT, FIXTURE CONTINUOUSLY ON AND UNSWITCHED.	
T/C TIME CLOCK	
P/C PHOTO CONTROL	
UC UNDER CABINET	
STRIP FLUORESCENT LIGHT FIXTURE	
CHANDELIER LIGHT FIXTURE	
PS PRESSURE SWITCH	
PIV POST INDICATOR VALUE	

J JUNCTION BOX	
TTB TELEPHONE TERMINAL BOARD	
TVTB TELEVISION TERMINAL BOARD	
CTB COMPUTER TERMINAL BOARD	
CONDUIT DOWN	
CONDUIT UP	
SD SMOKE DETECTOR, CEILING MOUNTED	
SD SMOKE DETECTOR, DUCT MOUNTED	
T THERMOSTAT	
FAP FIRE ALARM PANEL	
RAP FIRE ALARM REMOTE ANNUNCIATOR PANEL	
F FIRE ALARM INITIATOR STATION	
H FIRE ALARM HORN/ STROBE LIGHT	
L FIRE ALARM STROBE LIGHT	
WL WATER LINE	
GROUND ROD	
CIRCUIT BREAKER	
CONTACT – NORMALLY OPEN	
CONTACT – NORMALLY CLOSED	
EMERGENCY LIGHT WITH BATTERY PACK	
VC VIDEO CAMERA	
MD MOTION DETECTOR	
BT BILL TRAP	
KP KEY PAD	
HK HAND KEY	
AL ALARM LIGHT	
H HEAT DETECTOR	
IG ISOLATED GROUND	
LIGHT FIXTURE	
LIGHT FIXTURE	
FLUORESCENT LIGHT FIXTURE	
WALL MOUNTED LIGHT FIXTURE	
TS TAMPER SWITCH	
EXIT LIGHT, WITH BATTERY PACK. CEILING MOUNTED	
EMERGENCY LIGHT	
BBH BASE BOARD HEATER 250W WITH THERMOSTAT, SET 40°F	





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PORT WENTWORTH, GA 31407

FIRST FLOOR PLAN
POWER

SEAL
GEORGIA REGISTERED No. 15760 PROFESSIONAL ENGINEER P. A. VANDENBULCK

ISSUE DATE 07-24-06
REVISIONS
PROJECT NO. 05.098
DRAWN BY FAN
SHEET NO. E1.1

E1.1
SCALE: 1/8" = 1'-0"
FIRST FLOOR PLAN - POWER

0 4' 8' 16'

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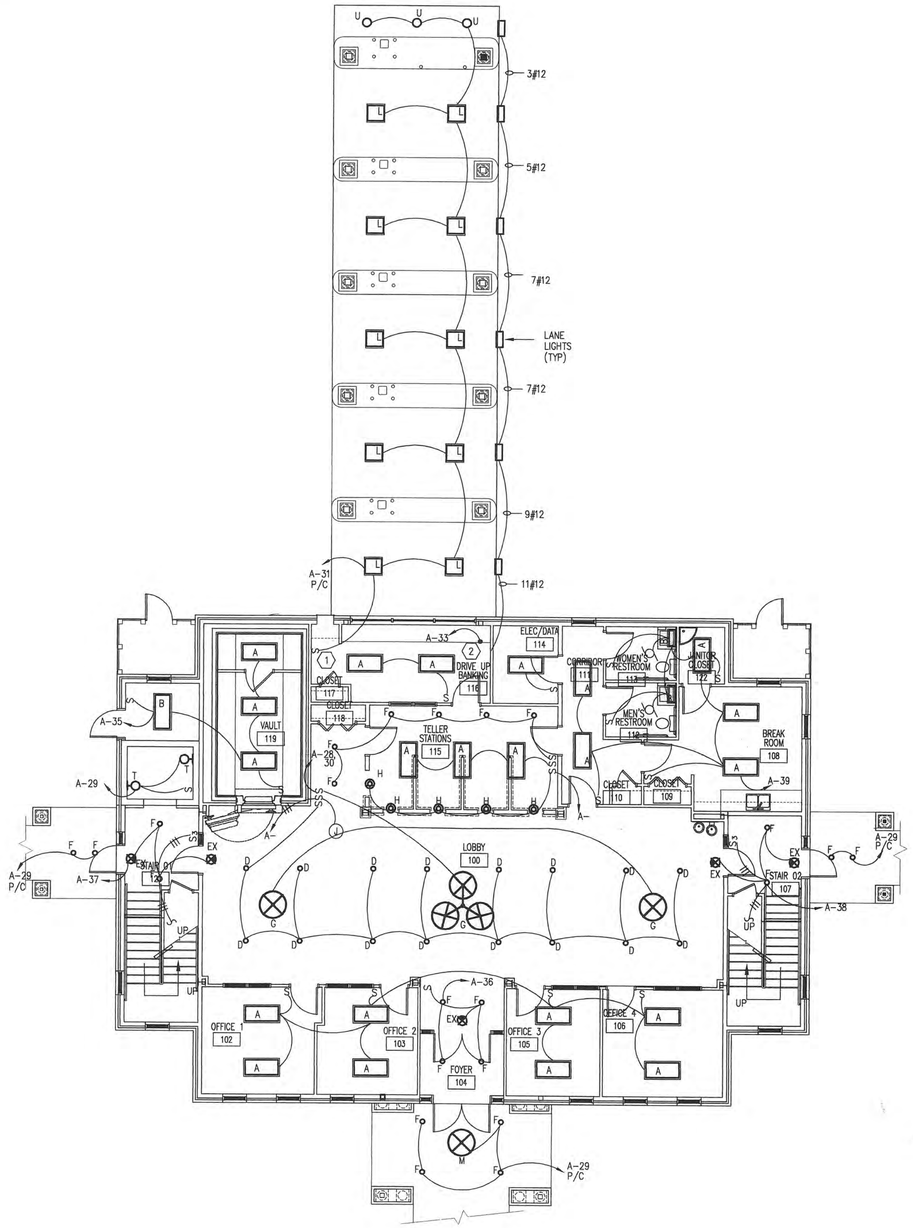
LUMINAIRE SCHEDULE

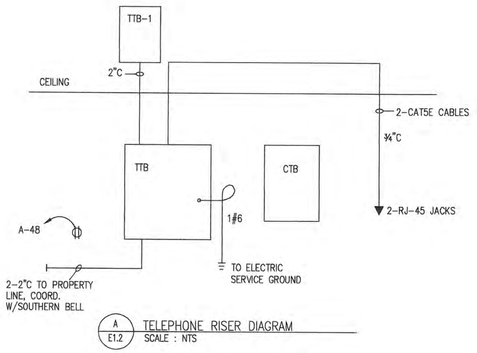
SYM	NO.OF LAMPS	WATTS	VOLTS	TYPE LAMP	MOUNTING	TYPE LENS	MFG.& CAT.NO.	REMARKS
A	4	32	120	32WT8	CEILING GRID	ACRYLIC .125"	LITHONIA 2SP8 G 4 32 A12125 120 GEB	3
B	2	17	120	17WT8	WALL OVER MIRROR	WHITE ACRYLIC	LITHONIA 11893 RE WH	3
C	3	32	120	32WT8	CEILING GRID	ACRYLIC .125"	LITHONIA 2SP8 G 3 32 A12125 120 GEB	3
D	1	18	120	18DTT	CEILING GRID	CLEAR ALZAK	LITHONIA L7XF 13DTT 120	X
EM	1	5.4	120	KRYPTON	X WALL	THERMOPLASTIC	LITHONIA ELM	4
EX	1	.05	120	LED	X WALL	LED	LITHONIA LQM P 1 G 120/277 ELN	X
F	1	18	120	18DTT	CEILING	CLEARK ALZAK	LITHONIA L7XF 13DTT 120	X
G	6	75	120	A19	CEILING	PERFORATED BOWL	SHAPER LIGHTING – 415-D-LB-36-INC/6/75-PAR30H/1/75-120V-SC	X
H	2	32	120	CFL	CEILING	ACRYLIC BOWL	SHAPER 499-RP-CFL/2-120V-SC	X
K	1	150	120	A19	WALL PIT	GLOBE WITH GUARD	HUBBELL VW-151	1,2
L	3	17	120	17WT8	SURFACE MOUNTED	9 CELL 'ACHROMA'	LITHONIA 2PM3X 3 17 9 LD 120 GEB	1,3
M	1	75	120	1½s19	OUTSIDE CEILING	SYMMETRICAL	COOPER CAN-02/CH-48/CH623(WA)	X
T	1	100	120	A19	PIT WALL	GLASS GLOBE	HUBBELL VWX-151-VCC-15	5
U	1	75	120	PAR30	RECESSED CEILING	N/A	LITHONIA LC6 6B1W AT	6

NOTES :
1. WET LOCATION RATED
2. VANDAL GUARD
3. ELECTRONIC BALLAST.
4. EMERGENCY LIGHT WITH BATTERY AND CHARGER.
5. WIRE GUARD.
6. DAMP LOCATION RATED

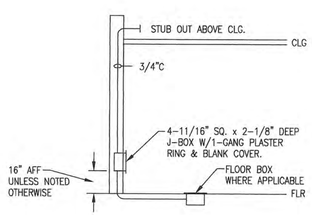
LIGHTING NOTES

1. SWITCH TO BYPASS P/C
2. LANE LIGHT SWITCHES OPEN/OFF/CLOSED (6 TYPICAL).
3.
4.





A / E1.2 TELEPHONE RISER DIAGRAM
SCALE : NTS



B / E1.2 TELEPHONE/DATA/COMM. OUTLET INSTALLATION DETAIL
SCALE : NTS

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E1.2 SCALE:1/8" = 1'-0" FIRST FLOOR PLAN - LIGHTING

0 4' 8' 16'

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FIRST FLOOR PLAN
LIGHTING

SEAL
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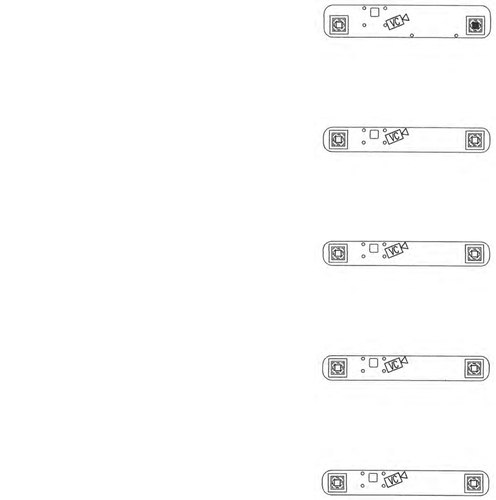

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0 4' 8' 16'

E1.3 SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN - BANKING, VIDEO, AND ALARM

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FIRST FLOOR PLAN
BANKING, VIDEO, AND ALARM

SEAL

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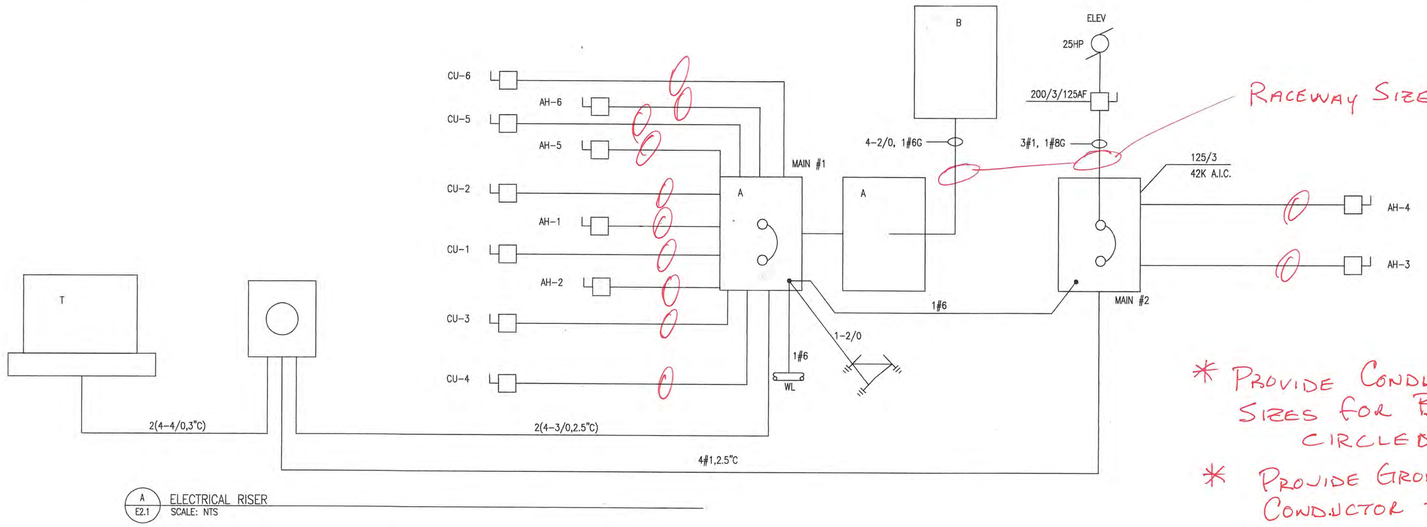
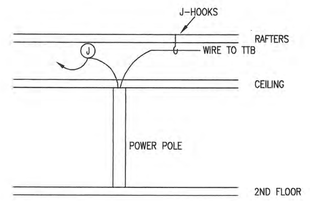


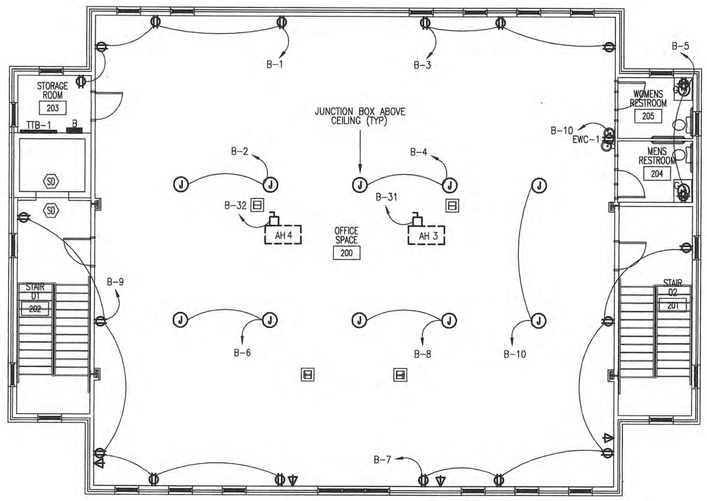
A E2.1 ELECTRICAL RISER
SCALE: NTS

RACEWAY SIZE

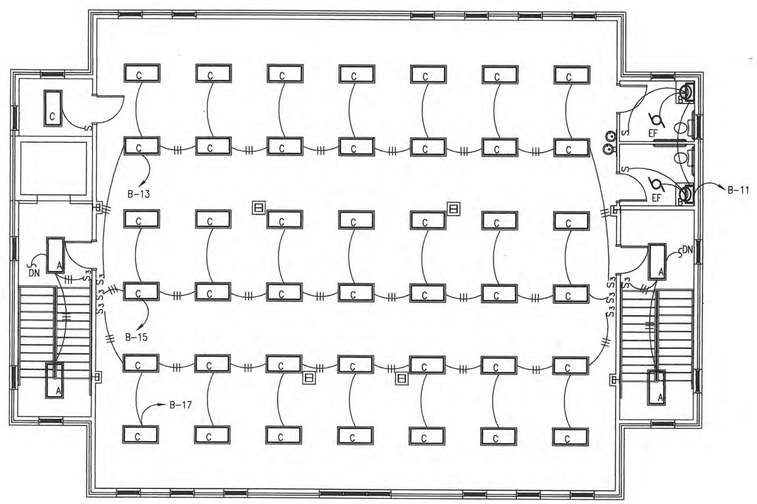
* PROVIDE CONDUCTOR/RACEWAY SIZES FOR BRANCH CKTS CIRCLED
* PROVIDE GROUNDING ELECTRODE CONDUCTOR TO BLDG STEEL



B E2.1 POWER POLE
SCALE: NTS



1 E2.1 SECOND FLOOR PLAN – POWER
SCALE : 1/8" = 1'-0"



2 E2.1 SECOND FLOOR PLAN – LIGHTING
SCALE : 1/8" = 1'-0"

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0 4' 8' 16'

E2.1 SECOND FLOOR PLAN - POWER AND LIGHTING
ALE:1/8" = 1'-0"

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SECOND FLOOR PLAN
POWER AND LIGHTING

SEAL
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