

As Built  
B07  
43812

DO NOT MEASURE DRAWINGS  
NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES  
PRIOR TO CONSTRUCTION. SEE GENERAL NOTES



# City of Jacksonville Restoration of Brewster Hospital Jacksonville, Florida

City Contract No. 8696-01

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**ARCHITECTS AFFIDAVIT**

THESE FINAL CONSTRUCTION DOCUMENTS, DATED JANUARY 27, 2009 REFLECT CONSTRUCTION COMPLETED THROUGH "PHASE III" AS DEPICTED HEREIN.

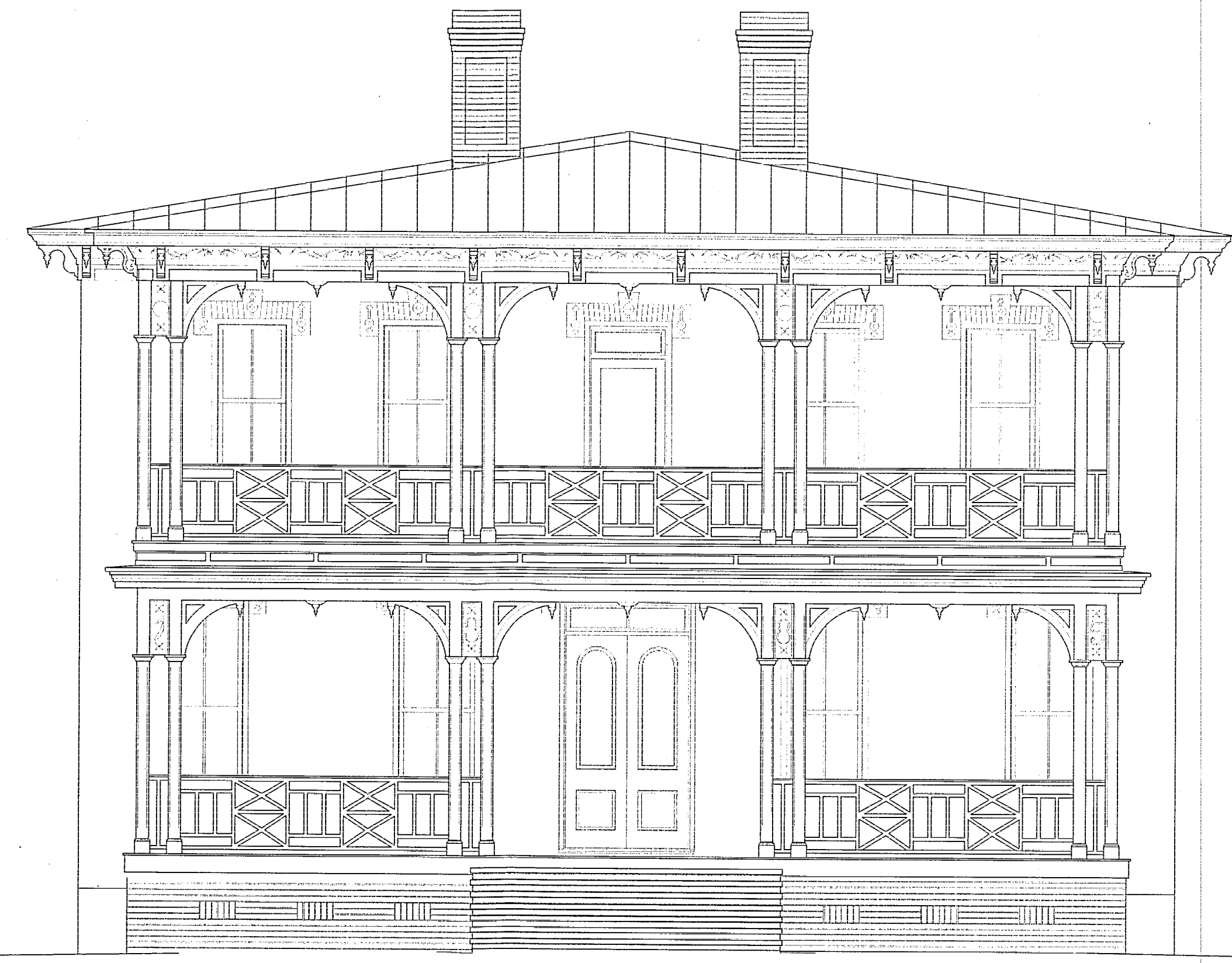
NOTE THAT THE INTENT OF THE FIRST THREE PHASES WAS TO RESTORE THE BUILDING TO SATISFY DEPARTMENT OF INTERIOR STANDARDS FOR HISTORIC RESTORATION. IN ADDITION, THE DESIGN INCLUDED UPGRADING INFRASTRUCTURE TO PRESERVE THE NEW WORK AND BECAUSE IT WAS LOGISTICALLY MORE FEASIBLE TO DO DURING THESE PHASES.

THE WORK THAT IS IN PLACE APPEARS TO SATISFY CODE REQUIREMENTS BASED ON OBSERVATIONS MADE ON SITE DURING CONSTRUCTION.

THE BUILDING WILL NOT BE OCCUPIABLE UNTIL THE SITE IS BUILT TO ALLOW ACCESS TO THE BUILDING, LANDSCAPING IS INSTALLED, A SECOND MEANS OF EGRESS IS PROVIDED FROM THE FIRST AND SECOND FLOORS. SIGNAGE SHALL BE INSTALLED REGARDING THE NON-FUNCTIONAL FIREPLACES AND NO ACCESS TO THE SECOND STORY BALCONY. STAIR RAILING IN THE BUILDING HAVE BEEN RESTORED AS ORIGINAL BUT DO NOT SATISFY TODAY'S CODE REQUIREMENTS REGARDING HEIGHT OR DENSITY.

**UNOCCUPIED BUILDING**

IT IS THE OWNER'S RESPONSIBILITY TO OPERATE THE MECHANICAL SYSTEMS WHILE THE BUILDING IS UNOCCUPIED. THE OWNER SHALL MAINTAIN CONSTANT INDOOR TEMPERATURE RANGE AS SPECIFIED IN THE MECHANICAL DESIGN CONDITIONS. ADDITIONAL SUPPLEMENTAL DEHUMIDIFICATION MAY BE REQUIRED DURING LONG PERIODS OF INOCCUPANCY.



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RESTORATION OF  
BREWSTER HOSPITAL  
Jacksonville, Florida

TITLE SHEET

Drawn by: RWO

Job: 0703

Sheet

A0.1

Sht. of Shts

**FLORIDA BLDG. CODE PRODUCT APPROVAL**

CATEGORY	SUBCATEGORY	FL#	MANUFACTURER
EXTERIOR DOORS	SWING DOORS	FL7347	THERMA-TRU CORP.
WINDOWS	DOUBLE HUNG	FL5043.2	PELLA CORP.
ROOFING	METAL ROOFING	FL1923-R2	DREXEL METALS CORP.
ROOFING	UNDERLAYMENT	FL298-RI	W.R. GRACE
STRUCTURAL COMPONENTS	WOOD CONNECTORS	FL474-RI	SIMPSON STRONG-TIE COMPANY
STRUCTURAL COMPONENTS	WOOD CONNECTORS	FL503-RI	SIMPSON STRONG-TIE COMPANY
STRUCTURAL COMPONENTS	WOOD CONNECTORS	FL538-RI	SIMPSON STRONG-TIE COMPANY

**MATERIAL INFORMATION**

ROOFING (MATERIAL SHALL MEET THE THE REQUIREMENTS OF CHAPTER 15, FLORIDA BUILDING CODE).  
 • ROOF UNDERLAYMENT ASTM D1970, APA RATED A-A  
 • ROOF FLASHING ALUM.  
 DRIP GAUGE 0.032  
 RAKE GAUGE 0.032  
 CAP GAUGE 0.032  
 VALLEY GAUGE 0.032  
 • ROOF MATERIAL METAL ROOF  
 • FASTENING SEE NAIL SCHEDULE

**CODE REVIEW INFORMATION :**

- FLORIDA BUILDING CODE 2004- BUILDING
- FLORIDA BUILDING CODE 2004- RESIDENTIAL
- FLORIDA BUILDING CODE 2004- EXISTING BUILDING
- FLORIDA BUILDING CODE 2004- PLUMBING
- FLORIDA BUILDING CODE 2004- MECHANICAL
- FLORIDA BUILDING CODE 2004- FUEL GAS
- FLORIDA FIRE PREVENTION CODE 2004- EDITION
- FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (FL BLDG. CODE 2004-BUILDING CHAPTER 11)
- FLORIDA ENERGY EFFICIENCY CODE FORBUILDING CONSTRUCTION (FL BLDG. CODE 2004-CHAPTER 13) (MECHANICAL CODE)
- FLORIDA ELECTRIC CODE 2005- EDITION (NFPA 70-2002)

**WIND ZONE INFORMATION**

NOTE: THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF SECTION 1606 OF THE 2004 EDITION OF THE FLORIDA BUILDING CODE.

THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION  
 • BUILDING STATUS: ENCLOSED  
 • BASIC WIND SPEED (M.P.H. - 3-SECOND GUST) 119  
 • WIND IMPORTANCE FACTOR 1.0  
 • BUILDING CATEGORY  
 • WIND EXPOSURE CATEGORY B  
 • INTERNAL PRESSURE COEFFICIENT (H.E.C.) 0.18

**OCCUPANCY / CONSTRUCTION TYPE**

- OCCUPANCY TYPE FL BUILDING CODE: B-BUSINESS
- CONSTRUCTION TYPE V
- PROTECTION: UNPROTECTED-NON-SPRINKLER

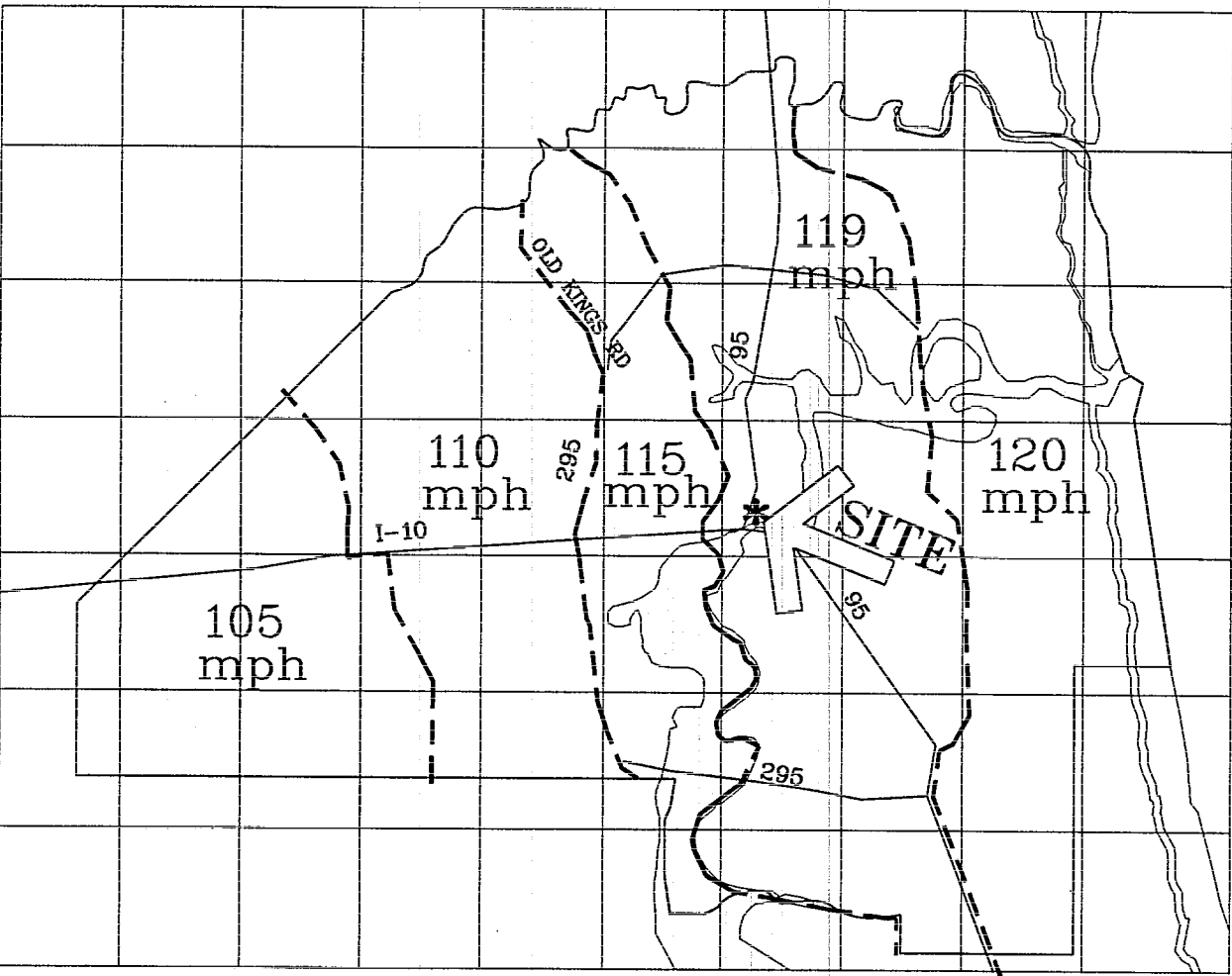
**SQUARE FOOTAGE: OCCUPANCY LOAD:**

- CONDITIONED FIRST FLOOR SPACE 2,744 S.F. 1 PER 100 SF 28 OCCUPANTS
- CONDITIONED SECOND FLOOR SPACE 2,744 S.F. 1 PER 100 SF 28 OCCUPANTS
- TOTAL CONDITIONED FLOOR SPACE 5,812 S.F. TOTAL 56 OCCUPANTS
- FRONT PORCH - FIRST FLOOR 292 S.F.
- FRONT PORCH - SECOND FLOOR 292 S.F.
- TOTAL 584 S.F.

**STRUCTURE HEIGHT AND # OF STORIES**

• MAXIMUM HEIGHT OF THE STRUCTURE IN FT.  
 • NUMBER OF STORIES TWO

**DUVAL COUNTY WIND SPEED ZONES**



**ABBREVIATION LIST**

@	At	BD.	Board	COL.	Column	EA.	Each	F.O.M.	Face Of Masonry	HORIZ.	Horizontal	MAX.	Maximum	PLYWD.	Plywood	SCHD.	Schedule	U/C	Under Counter	YD.	Yard
ABV.	Above	BDRM.	Bedroom	CTR.	Center	ELECT.	Electric	F.O.S.	Face Of Stud	HT.	Height	MIN.	Minimum	PNTD.	Painted	SECT.	Section	U/G	Under Ground	YR.	Year
A/C	Air Conditioner	BM.	Beam	C.W.	Cold Water	EL. ELEV.	Elevation	F.D.	Floor Drain	H.W.	Hot Water	MT.	Mount	PR.	Pair	SERV.	Service	V	Valley		
A.I.C.	Alt. Interrupting Capacity	BTM.	Bottom			EQ.	Equipment	FT.	Foot	H.P.	Horse Power	MTL.	Metal	PT.	Pressure Treated	SQ.	Square	V	Valley		
A.B.	Anchor Bolt	or BOTT.	Bottom	DBL.	Dryer	EQUIP.	Equipment	FTG.	Footing	IN.	Interior	N.I.C.	Not In Contract	P.V.C.	Poly-Vinyl Chloride	SQ. FT.	Square Feet	VERT.	Vertical	AHU	Air Handling Unit
A.F.F.	Above Finished Floor	B.R.L.	Building Restriction Line	DET.	Detail	F.V.	Field Verify			LD.	Interior Design	NO.	Number	PRELIM.	Preliminary	STL.	Steel			HVAC	Heating Ventilating Air
A.F.S.	Above Finished Slab									INSUL.	Insulation					STRUC.	Structural	W	Width	VAC	Vacuum
ALT.	Alternate	CL	Centerline			G.A.	Gauge			INT.	Interior	O.C.	On Center	R	Radius			W	With		
ALUM.	Aluminum	CLG.	Ceiling			GAL.	Galvanized			INSUL.	Insulation	O/H	Over Hang	REQ.	Required			W	Washer		
A.R.B.	Architectural Review Board	CLST.	Closet			GD.	Grade			JT.	Joint	O/V	Over	R.D.	Roof Drain			W	Water		
AUX.	Auxiliary	C.M.U.	Concrete Masonry Unit			GRD.	Ground			LAV.	Lavatory	O/O	Out to Out	RECEPT.	Receptacle			W.C.	Water Closet (Toilet)		
		C.O.	Cased Opening			GYP. BD.	Gypsum Board							REIN.	Reinforced			WD.	Wood		
BA.	Bath	CRPT.	Carpet			FIN. FLR.	Finished Floor							REQD.	Required			WDW.	Window		
BTWN.	Between	DWG.	Drawing			FIN. FLR.	Finished Floor							REIN.	Reinforced			WH	Water Heater		
B.O.	Bottom Of	CONC.	Concrete			FL. FLR.	Floor			M	Meter			RM.	Room			W/P	Water Proof		
		CONT.	Continuous			FND.	Foundation			MSRY.	Masonry			PL.	Plate			W.W.F.	Welded Wire Fabric		

**STRUCTURAL CONSULTANT**

BAKER KLEIN ENGINEERING, P.L.  
 STRUCTURAL ENGINEERING SERVICES  
 1334 WALNUT STREET  
 JACKSONVILLE, FLORIDA 32207  
 904.398.9837 904.398.9838 FAX

THE OHMEGA GROUP, LLC  
 1652 SAN MARCO BLVD.  
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Issue	
C.O.A. SUBMITTAL	01/04/2008
PROGRESS REVIEW	01/11/2008
PROGRESS USE	01/25/2008
PROGRESS ISSUE	02/08/2008
PROGRESS PRINT	03/05/2008
PROGRESS PRINT	04/11/2008
FINAL CONST. DOCUMENTS	JAN. 27, 2009

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GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE BUILDING AND ZONING CODES.
2. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATING ROUGH OPENINGS AND DIMENSIONS IN THE FIELD FOR ALL TRADES.
3. ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD, FACE OF MASONRY AND / OR FACE OF FINISHED SURFACES UNLESS OTHERWISE NOTED.
4. DO NOT SCALE DRAWINGS, USE ONLY SHOWN DIMENSIONS, IF DIMENSIONS ARE MISSING, NOTIFY THE ARCHITECT.

WALL LEGEND

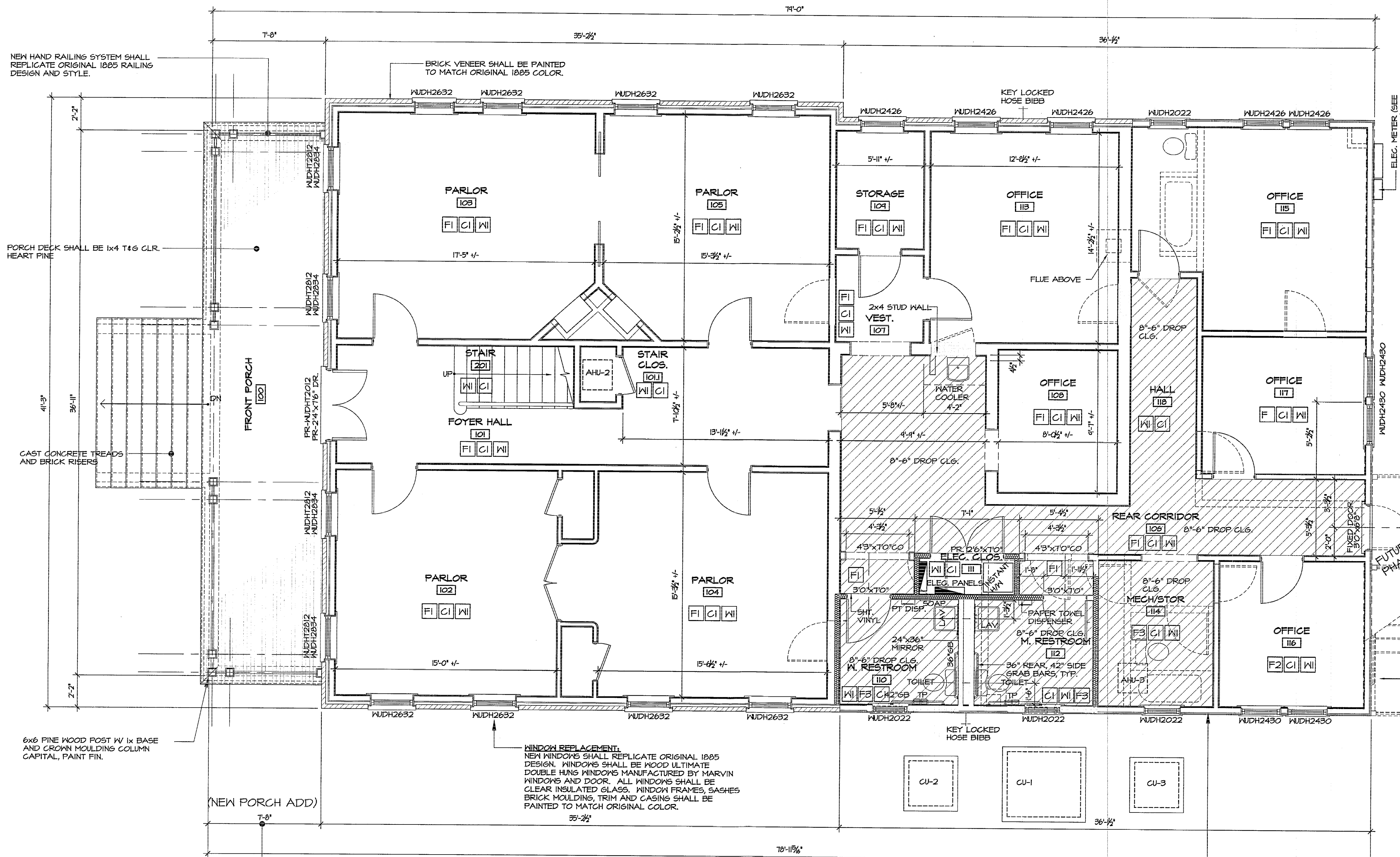
- 1. EXISTING BRICK VENEER WALL TO REMAIN.
- 2. EXISTING EXT. WOOD FRAMED WALL WITH NEW WOOD LAP SIDING.
- 3. REMOVE WOOD FRAMED WALL PARTITION
- 4. REMOVE PORTION OF WOOD FRAMED WALL PARTITION
- 5. NEW WOOD FRAMED WALL PARTITION, 1/2" GNB, PAINT FINISH.
- 6. NEW WOOD FRAMED WALL INFILL, FINISHES SHALL ALIGN WITH EXIST'G WALL PARTITION FINISHES. FURRING THE INFILL OPENINGS AS REQUIRED SHALL ALIGN FACE OF STUDS W/ EXISTING STUD WALL SURFACES.

INTERIOR FINISH NOTES/KEY

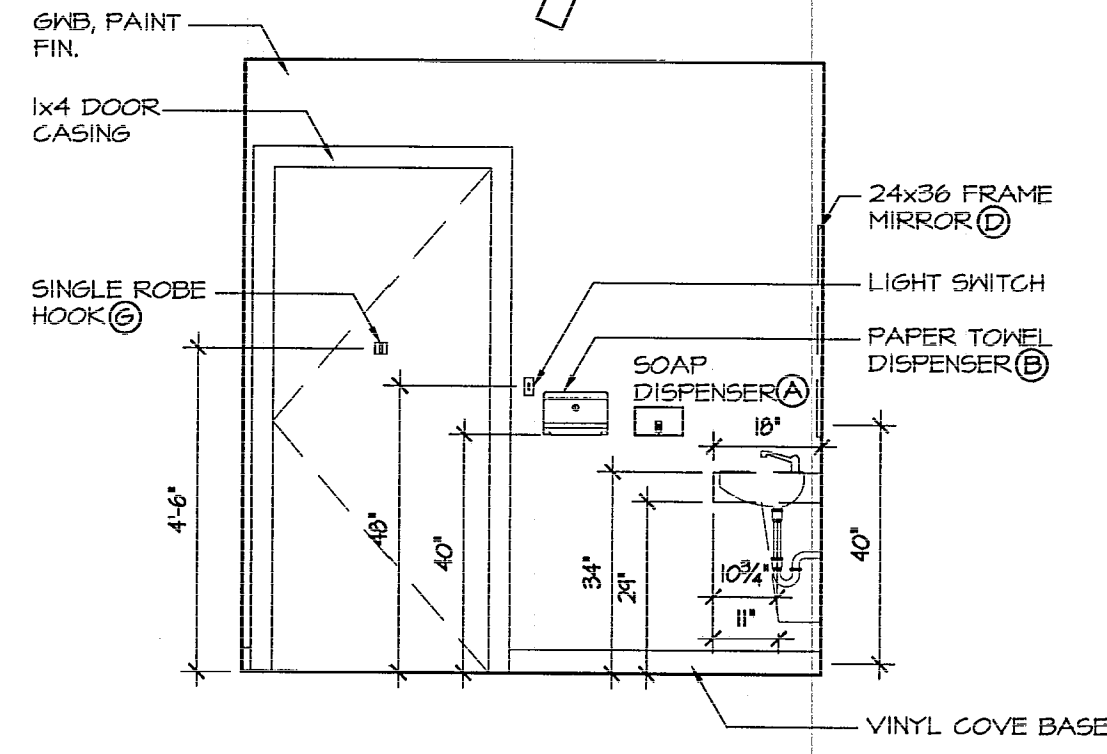
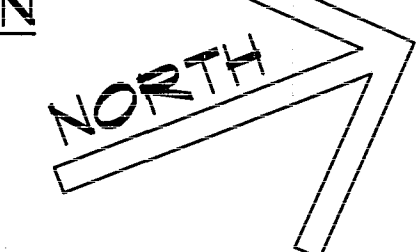
- FLOORS
- F1 REFINISH EXISTING HARDWOOD FLOOR
  - F2 NEW OR REPAIRED HARDWOOD FLOOR
  - F3 VINYL COMPOSITE TILES
- WALLS
- W1 GYPSUM WALL BOARD, PAINTED
- CEILING
- C1 GYPSUM WALL BOARD, PAINTED

TOILET ACCESSORY SCHEDULE:

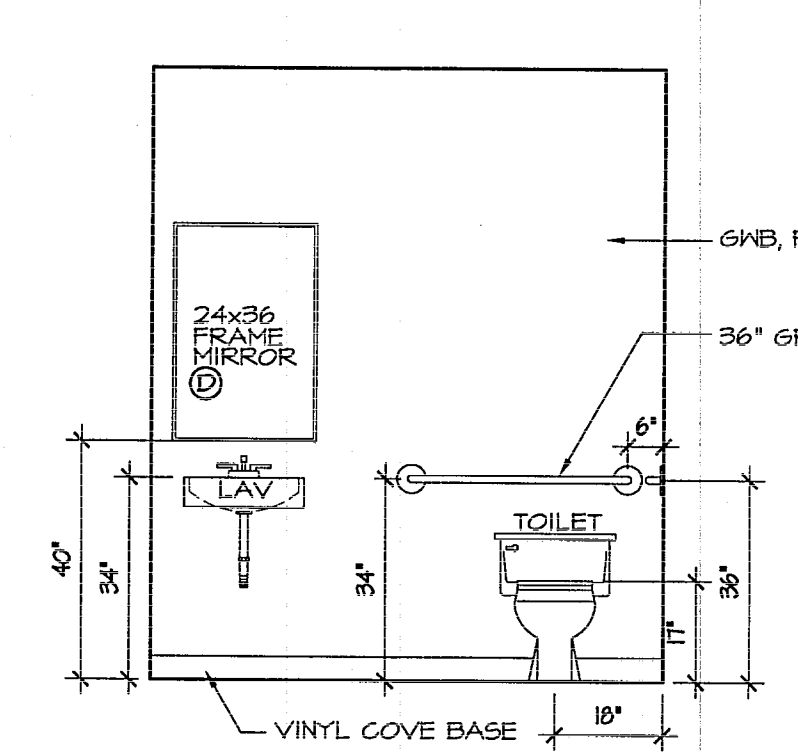
PRODUCT	DESCRIPTION	MODEL NO.
(A)	BOBRICK SOAP DISPENSER	B-2112
(B)	BOBRICK PAPER TOWEL DISPENSER	B-2621
(C)	BOBRICK TOILET TISSUE DISPENSER	B-2740
(D)	BOBRICK MIRROR WITH STAINLESS STEEL FRAME	B-1650 2436
(E)	BOBRICK GRAB BAR (36")	B-5806x36"
(F)	BOBRICK GRAB BAR (42")	B-5806x42"
(G)	BOBRICK SINGLE ROBE HOOK	B-7671



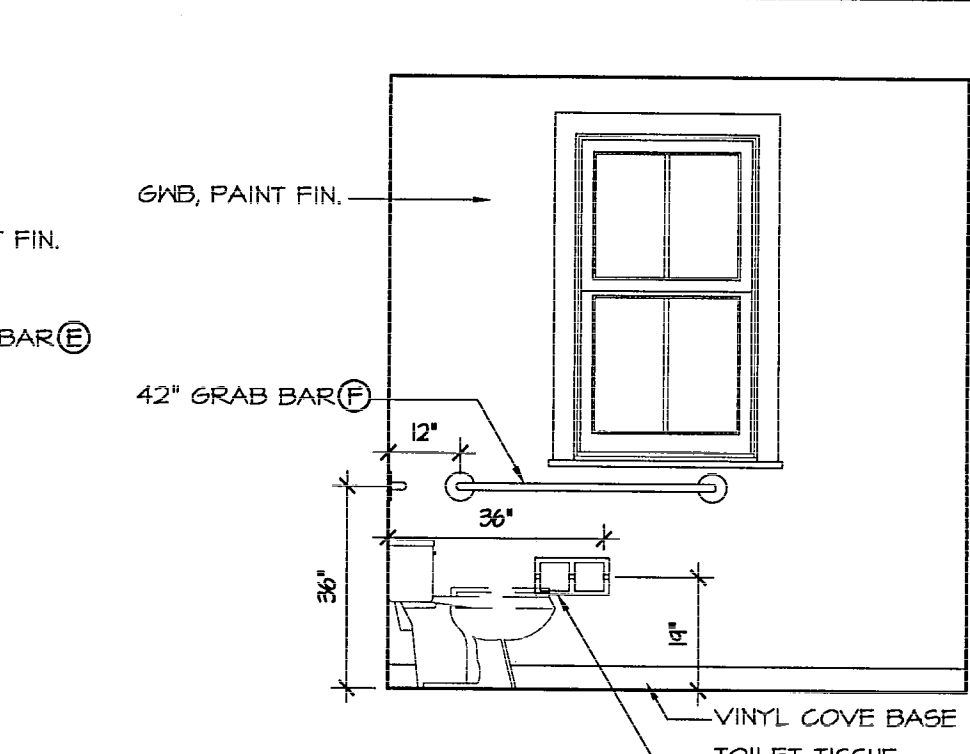
L-1 FIRST FLOOR PLAN  
A1.1 SCALE: 1/4"=1'-0"



1 INTERIOR ELEVATION  
A1.1 SCALE: 1/4"=1'-0"



2 INTERIOR ELEVATION  
A1.1 SCALE: 1/4"=1'-0"



3 INTERIOR ELEVATION  
A1.1 SCALE: 1/4"=1'-0"

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FIRST FLOOR PLAN

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**GENERAL NOTES:**

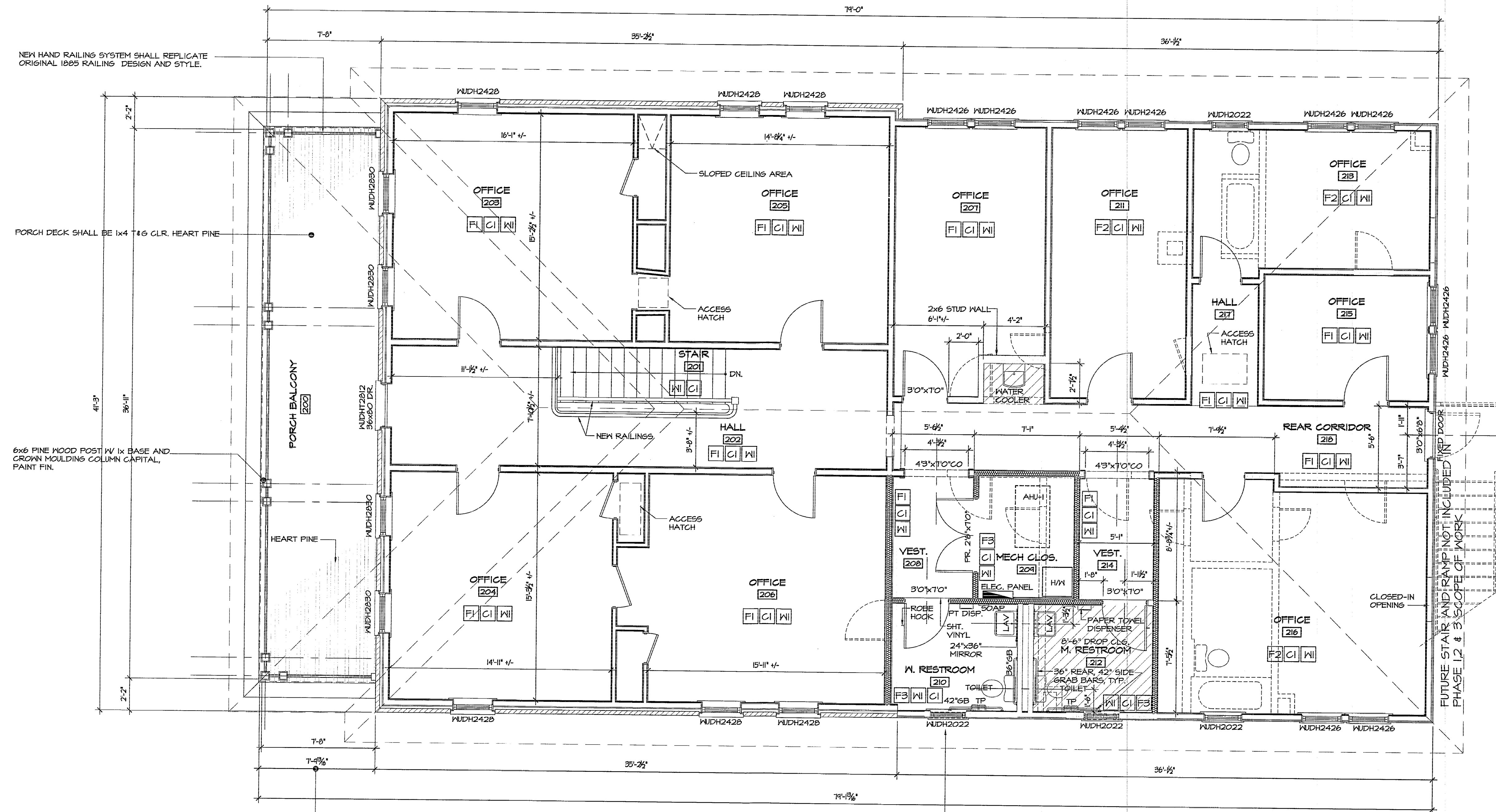
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**INTERIOR FINISH NOTES/KEY**

- FLOORS**
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- WALLS**
- W1 GYPSUM WALL BOARD, PAINTED
- CEILING**
- C1 GYPSUM WALL BOARD, PAINTED



NEW HAND RAILING SYSTEM SHALL REPLICATEG ORIGINAL 1885 RAILING DESIGN AND STYLE.

PORCH DECK SHALL BE 1x4 T&G CLR. HEART PINE

6x6 PINE WOOD POST W/ 1x BASE AND CROWN MOULDING COLUMN CAPITAL, PAINT FIN.

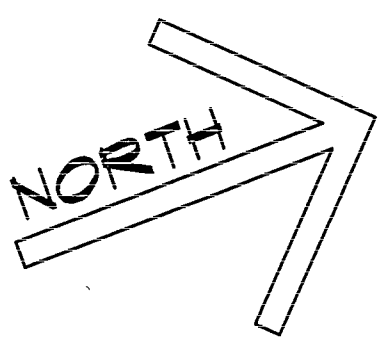
NEW PORCH SHALL REPLICATEG ORIGINAL 1885 DESIGN, PAINT TO MATCH ORIGINAL COLOR

**WINDOW REPLACEMENT:**  
 NEW WINDOWS SHALL REPLICATEG ORIGINAL 1885 DESIGN. WINDOWS SHALL BE WOOD ULTIMATE DOUBLE HUNG WINDOWS MANUFACTURED BY PELLA AND DOOR. ALL WINDOWS SHALL BE CLEAR INSULATED GLASS. WINDOW FRAMES, SASHES BRICK MOULDING, TRIM AND CASING SHALL BE PAINTED TO MATCH ORIGINAL COLOR.

FUTURE STEEL FRAMED STAIR W/ CONCRETE TREADS AND SLT. PANS AND RISER SYSTEM

FUTURE STAIR AND RAMP NOT INCLUDED IN SCOPE OF WORK PHASE 1, 2 & 3

**L-2 SECOND FLOOR PLAN**  
 A1.2 SCALE: 1/4"=1'-0"



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**RESTORATION OF BREWSTER HOSPITAL**  
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**SECOND FLOOR PLAN**

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**A1.2**

Sht. of Shts

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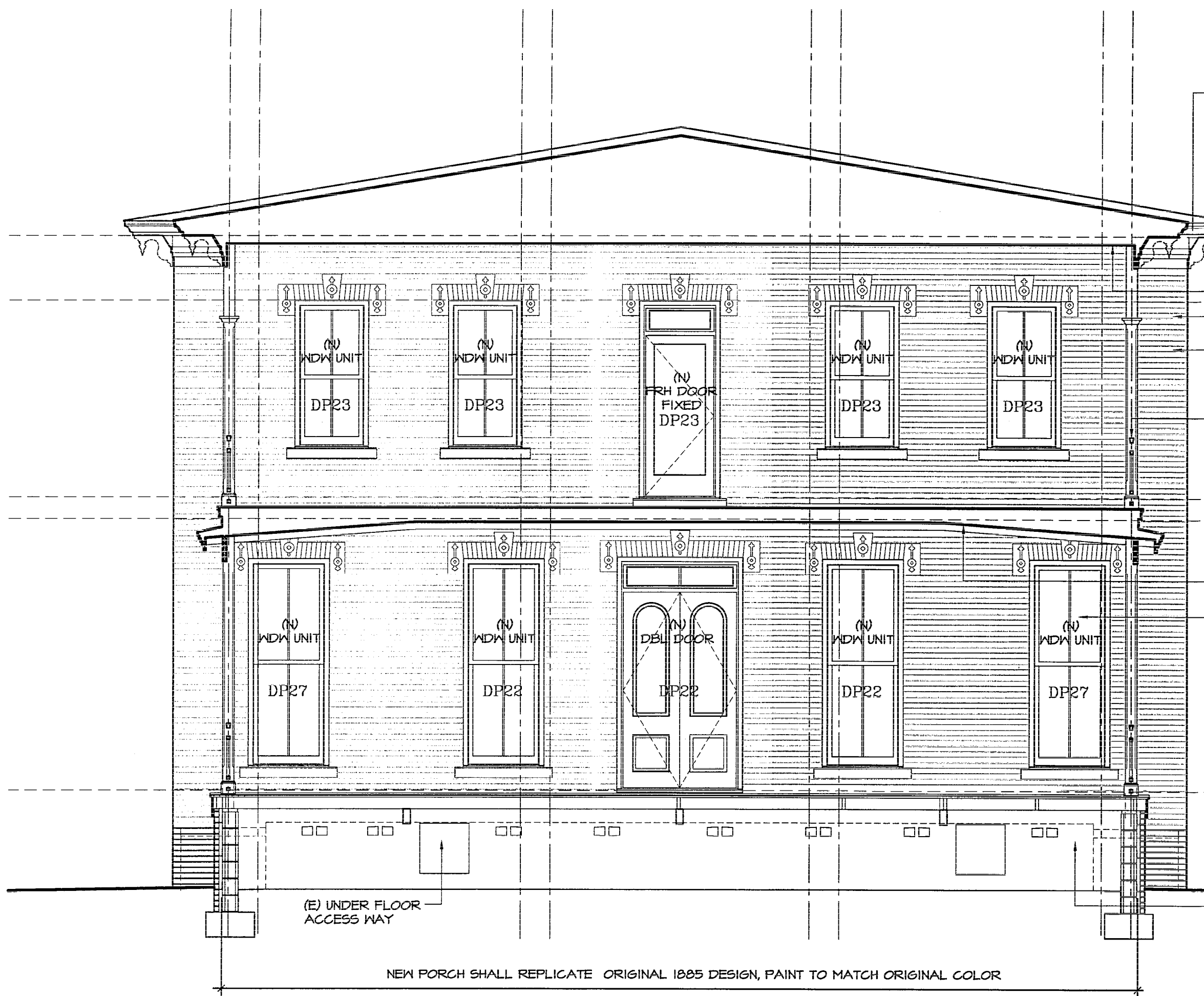
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 Jacksonville, Florida

EXTERIOR ELEVATIONS

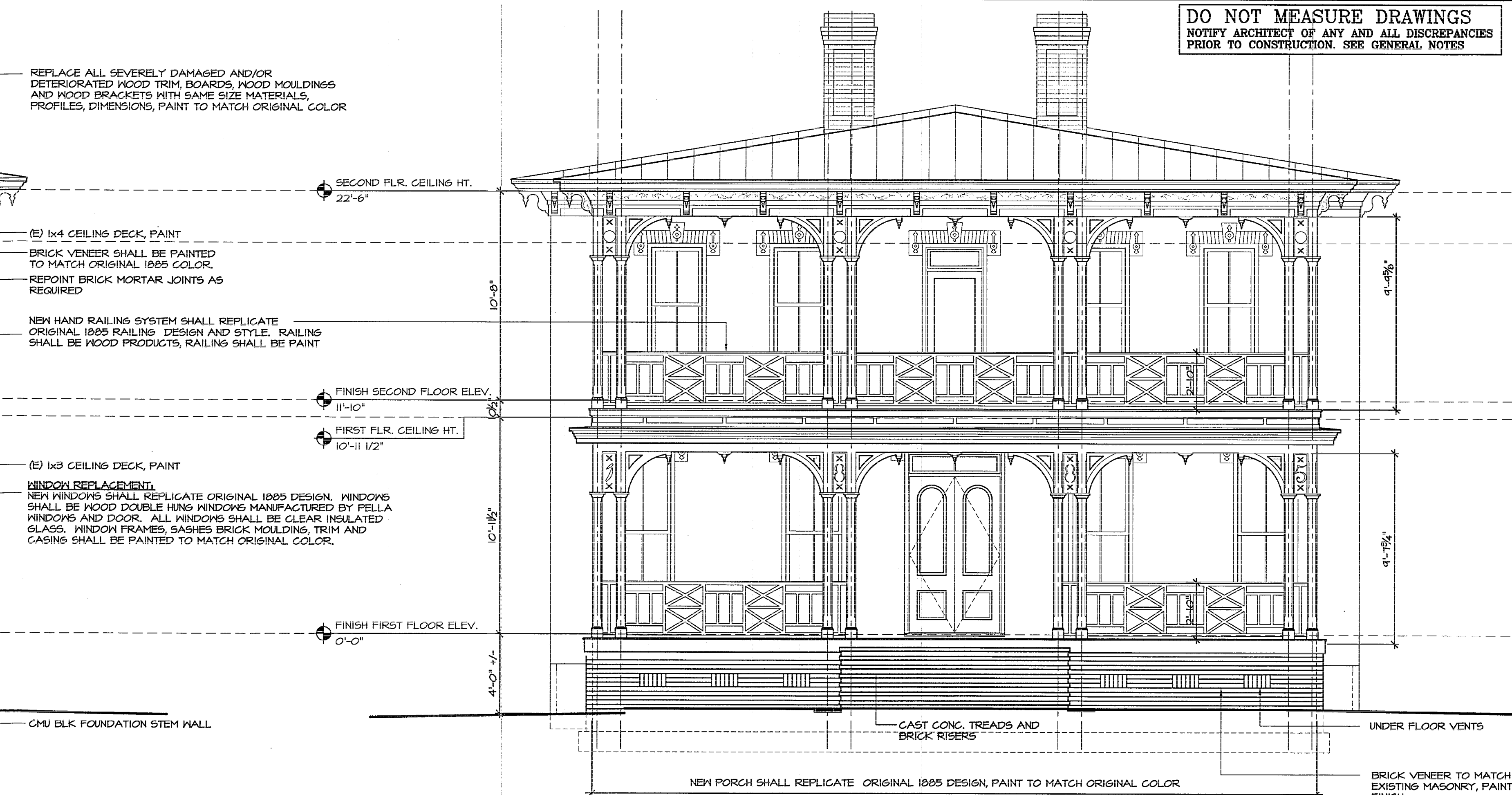
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**A1.3**

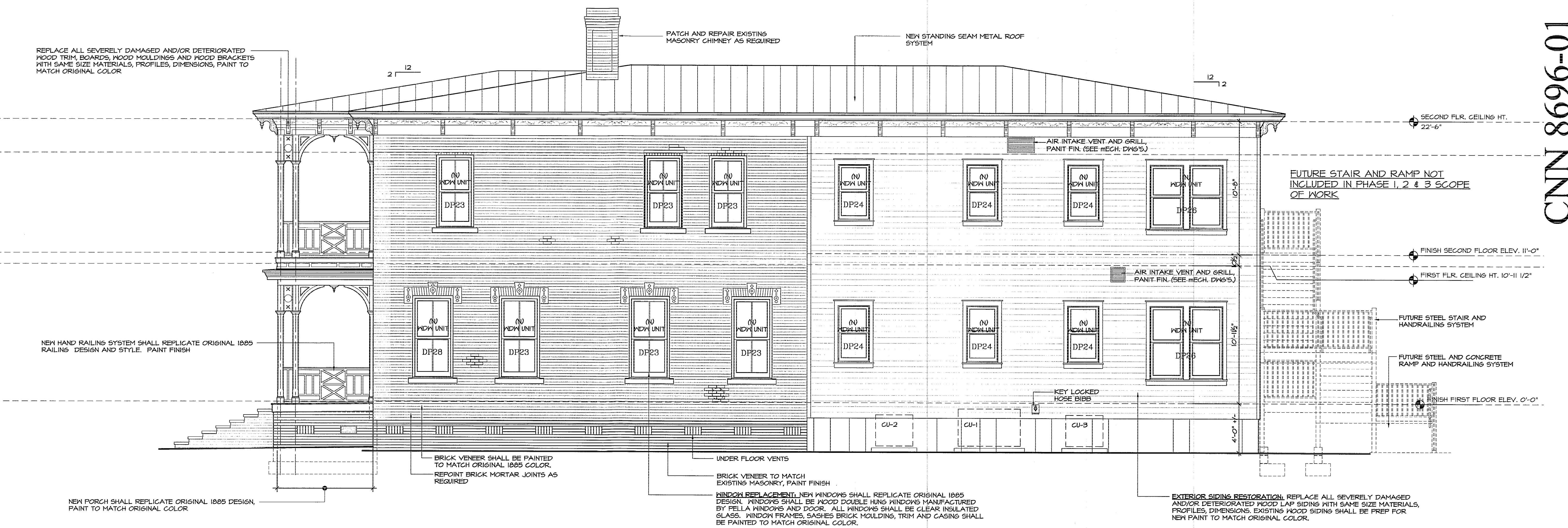
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**5 FRONT PORCH ELEVATION**  
 A1.3 SCALE: 1/4"=1'-0"



**5 SOUTH FRONT ELEVATION**  
 A1.3 SCALE: 1/4"=1'-0"



**E EAST SIDE ELEVATION**  
 A1.3 SCALE: 1/4"=1'-0"

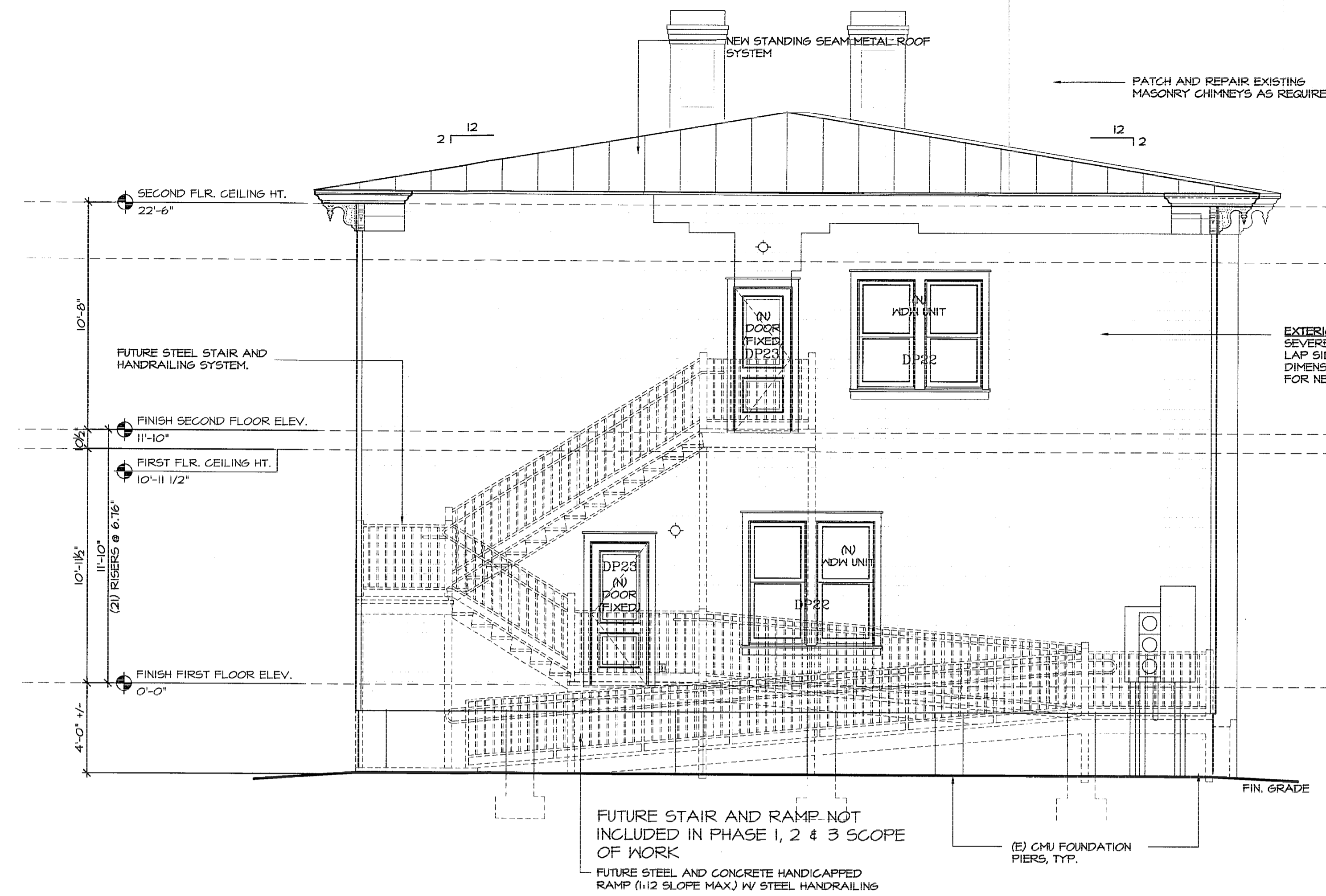
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FINAL CONST. DOCUMENTS JAN. 21, 2009

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01.12.09



**N REAR ELEVATION-NORTH**  
A1.4 SCALE: 1/4"=1'-0"



**W SIDE ELEVATION-WEST**  
A1.4 SCALE: 1/4"=1'-0"

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EXTERIOR ELEVATIONS

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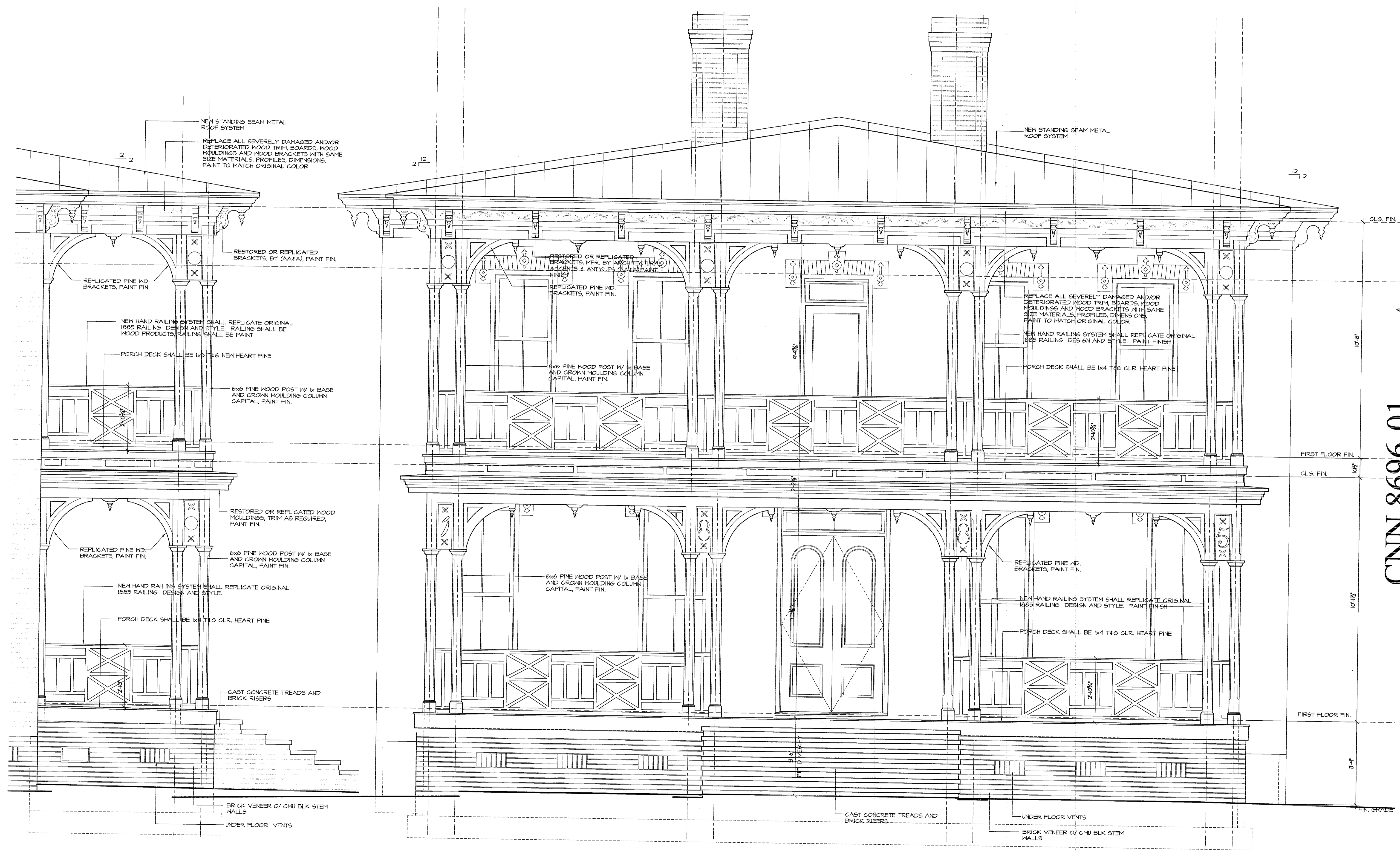
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EXTERIOR ELEVATIONS

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 Job: 0703  
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A1.5  
 Sht. of Shts.



**ENLARGED PORCH ELEV-WEST**  
 A1.5 SCALE: 1/2"=1'-0"

**ENLARGED PORCH ELEV-SOUTH**  
 A1.5 SCALE: 1/2"=1'-0"

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 architects

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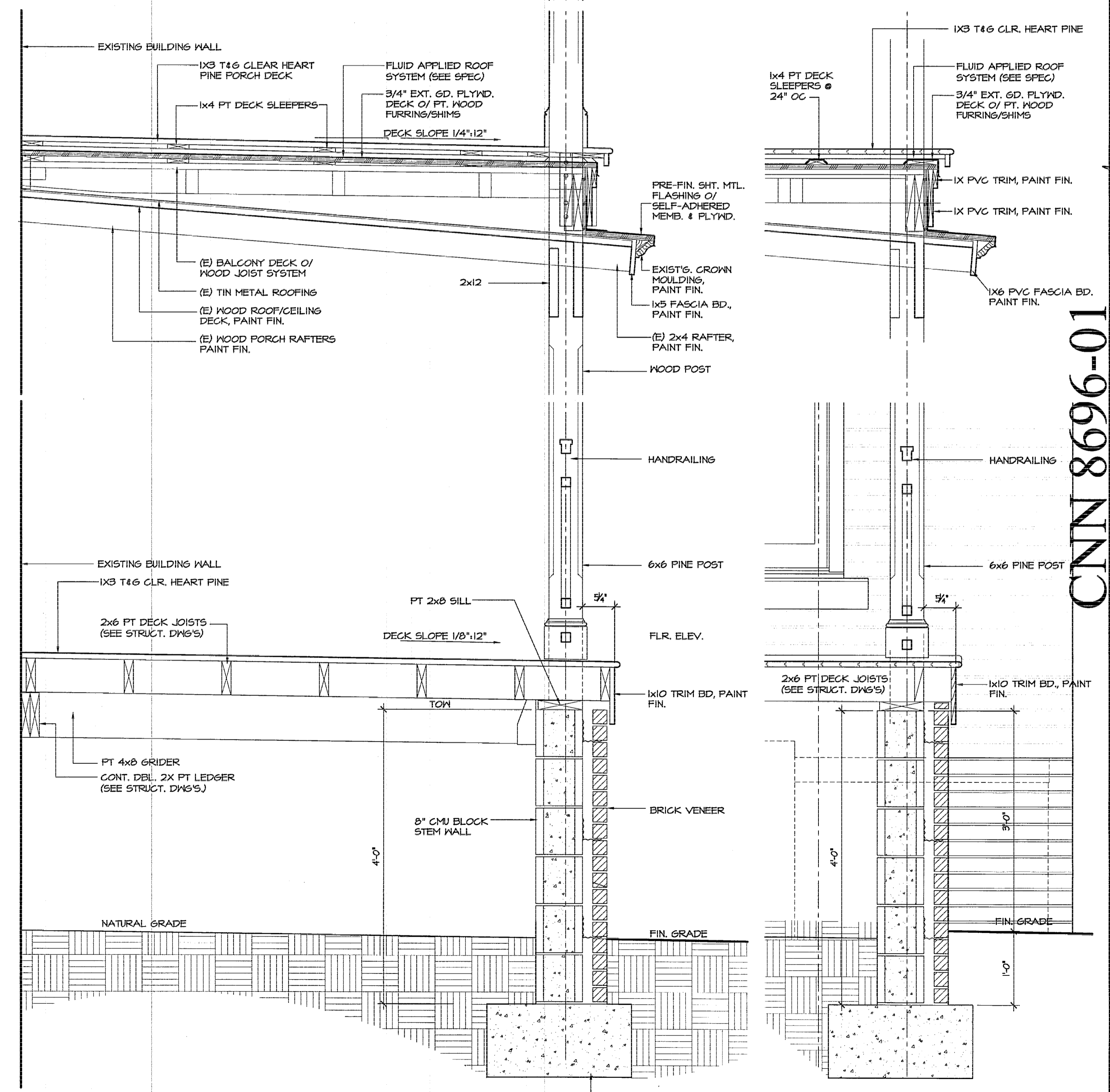
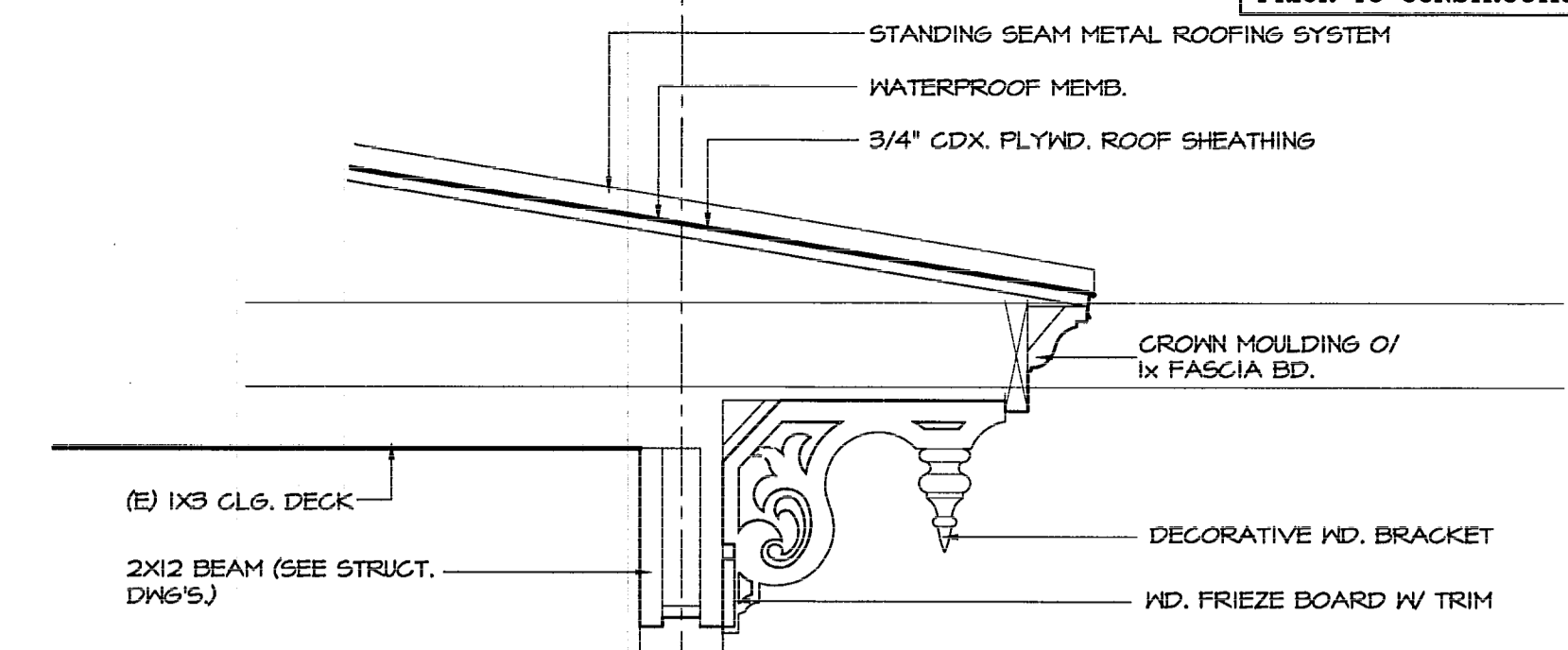
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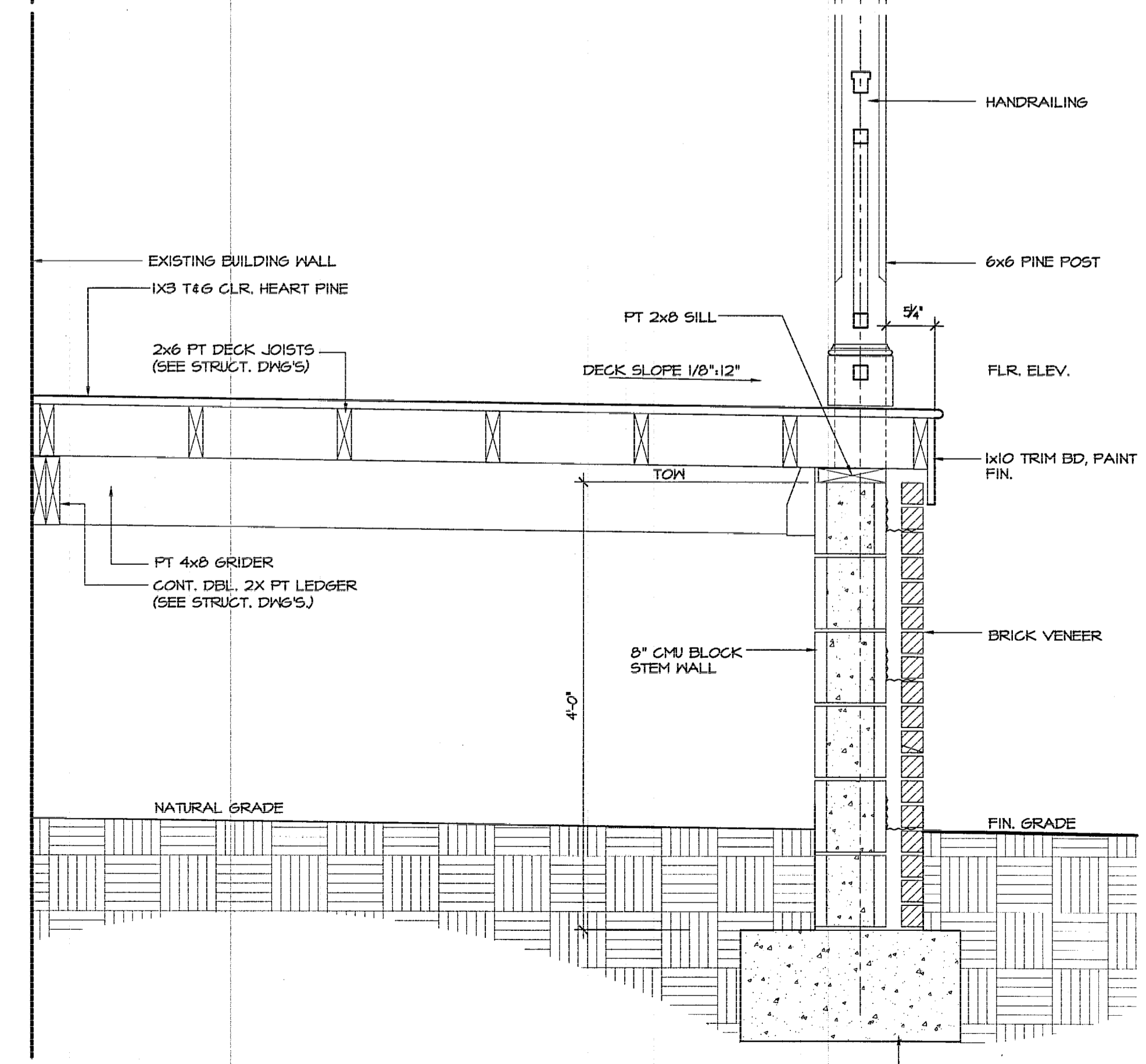
PORCH SECTIONS

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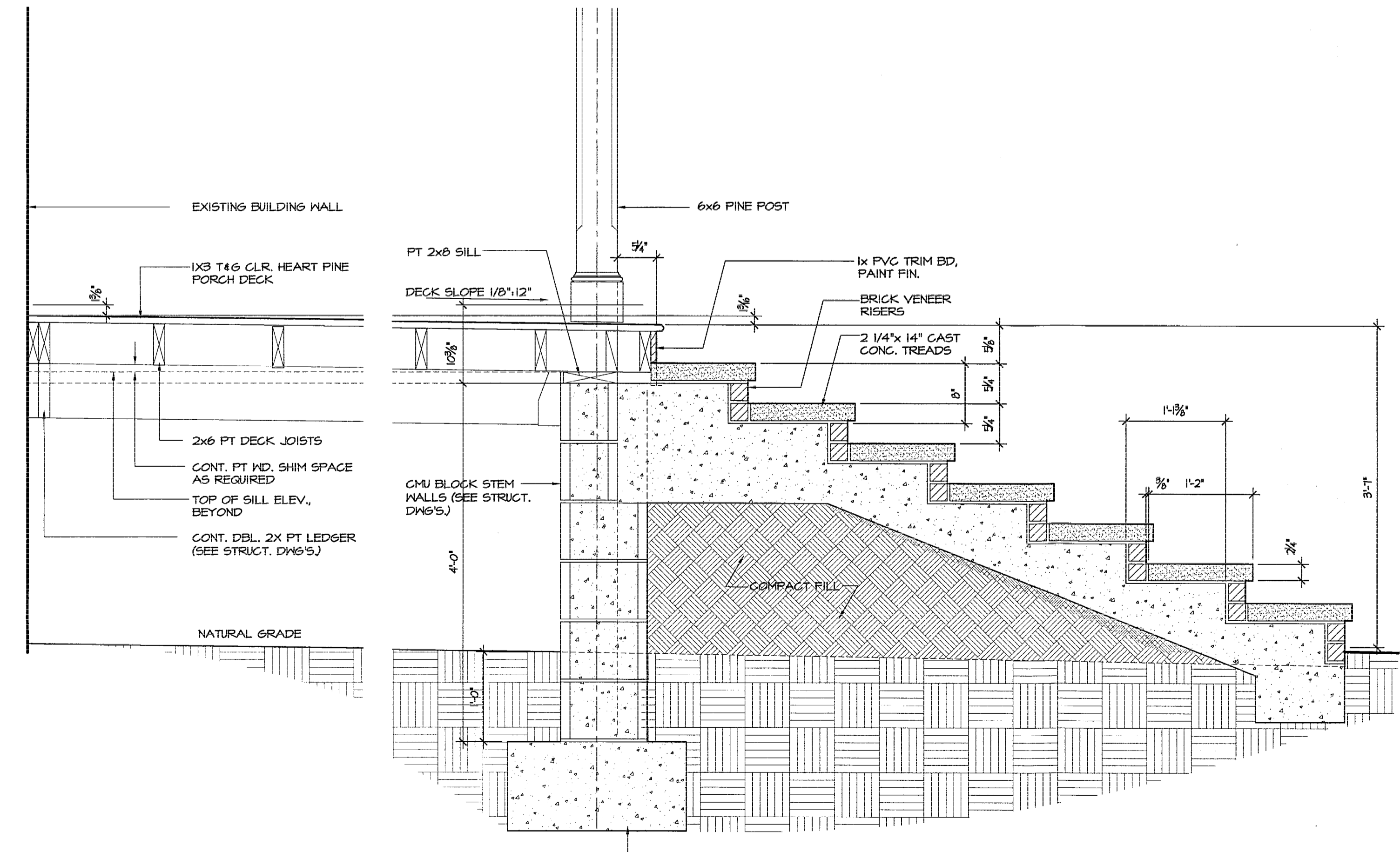
A5.1  
 Sht. A5.1 of Shts.



**1 PORCH SECTION**  
 A5.1 SCALE: 1"=1'-0"



**2 PORCH SECTION**  
 A5.1 SCALE: 1"=1'-0"



**3 PORCH SECTION**  
 A5.1 SCALE: 1"=1'-0"

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Issue
PROGRESS REVIEW 01/11/2008
PROGRESS PRINT 02/08/2008
PROGRESS PRINT 03/05/2008
PROGRESS PRINT 04/17/2008
FINAL CONST. DOCUMENTS JAN. 27, 2009

*Handwritten signature and date:*  
 01.02.09

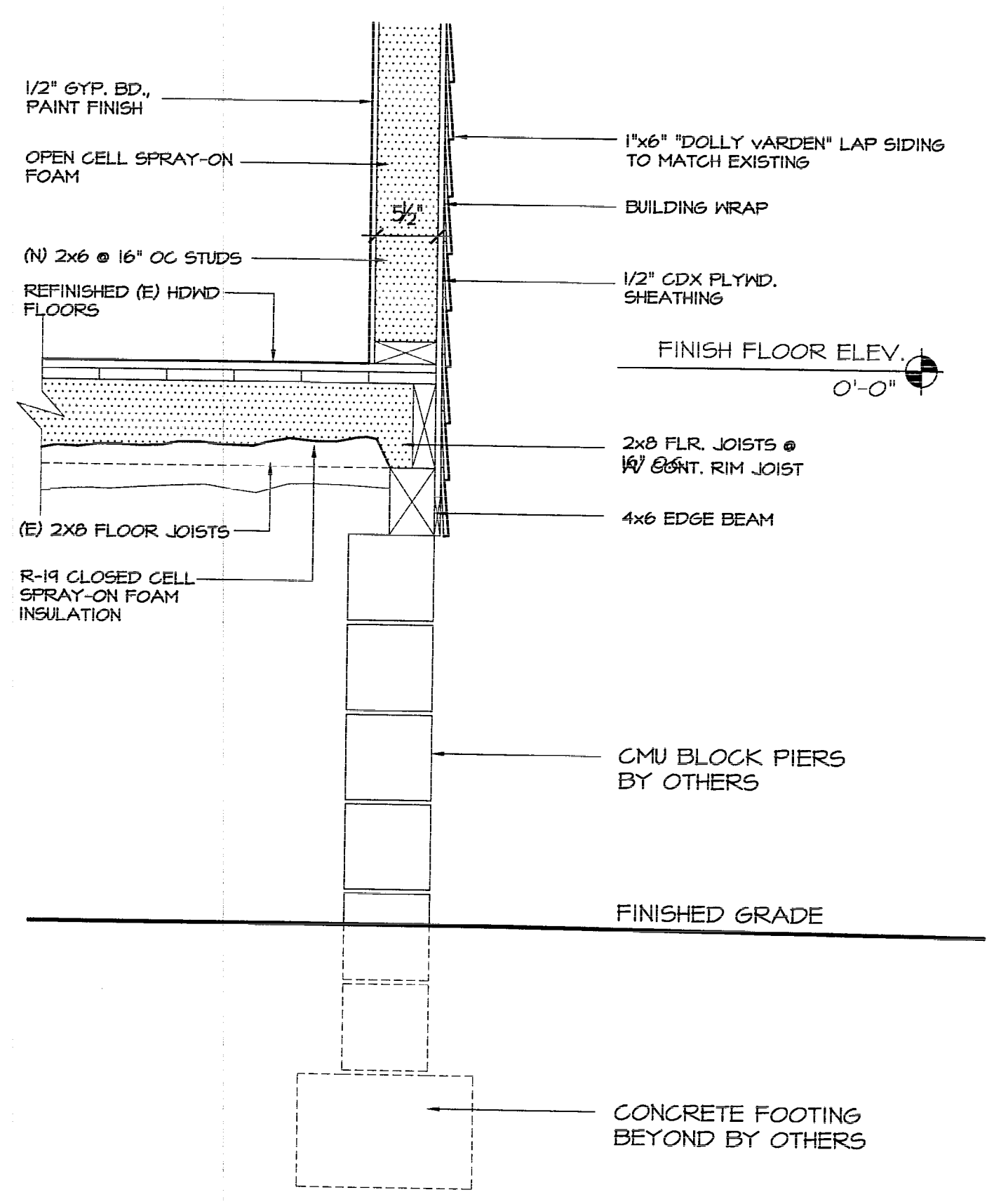
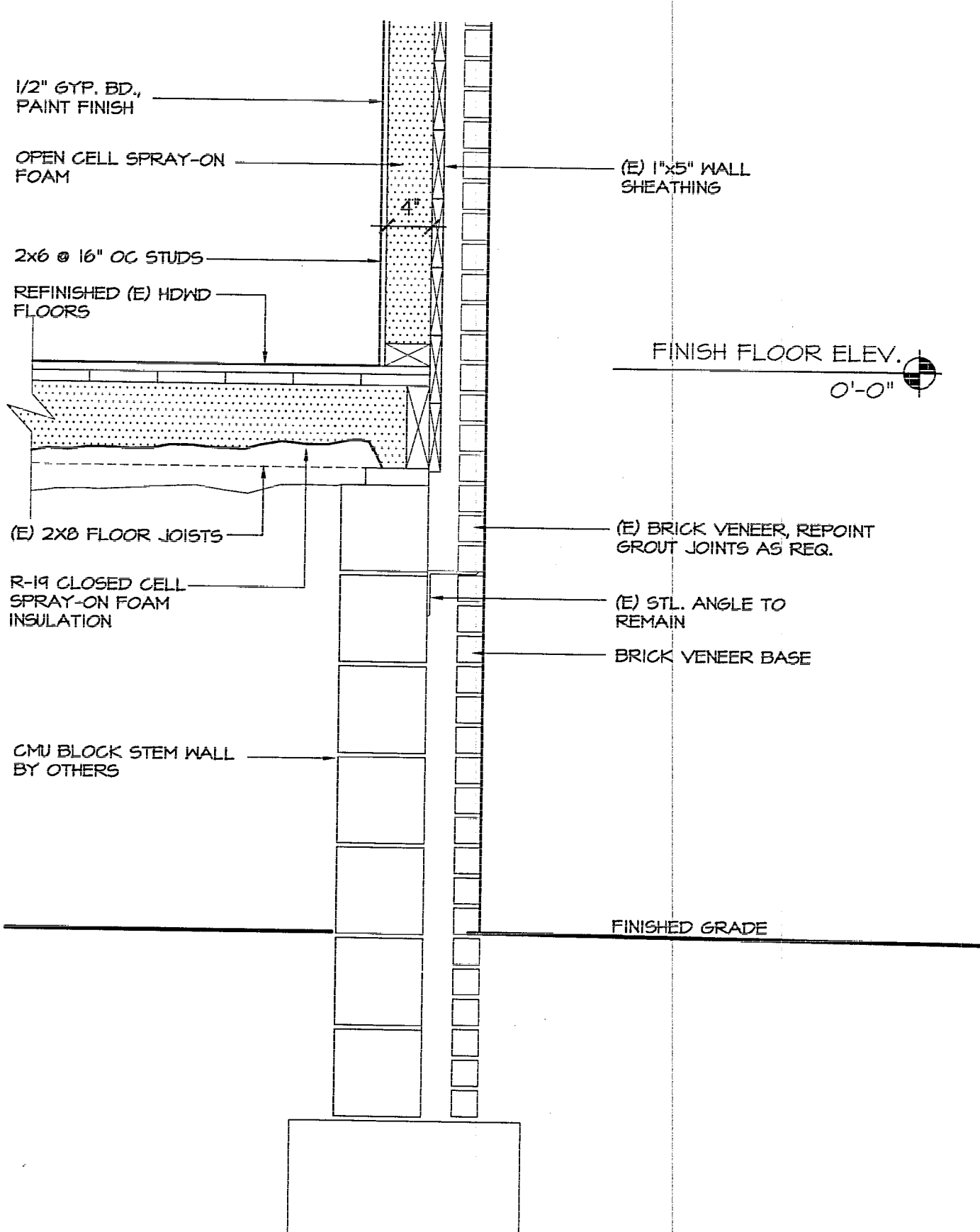
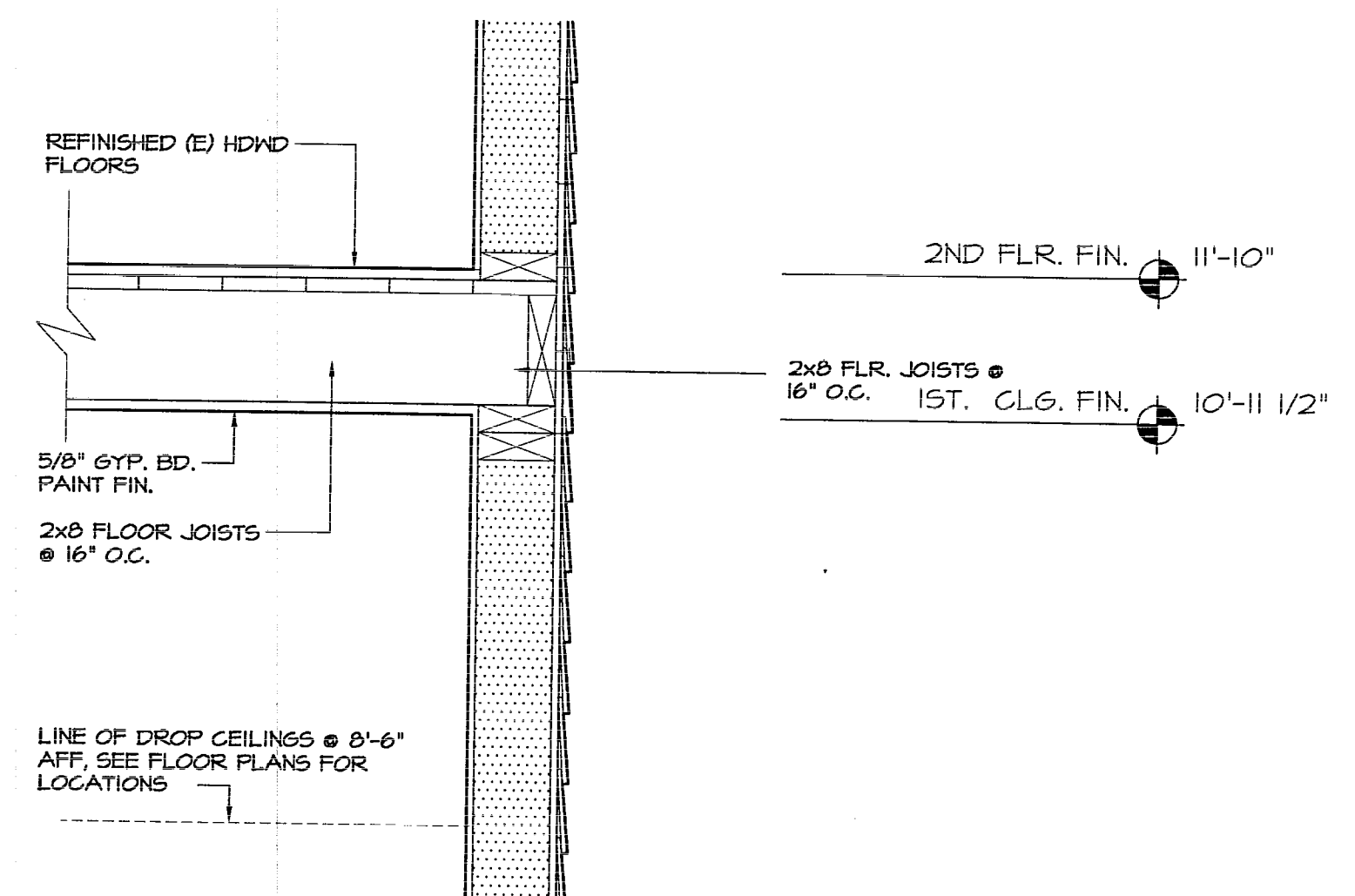
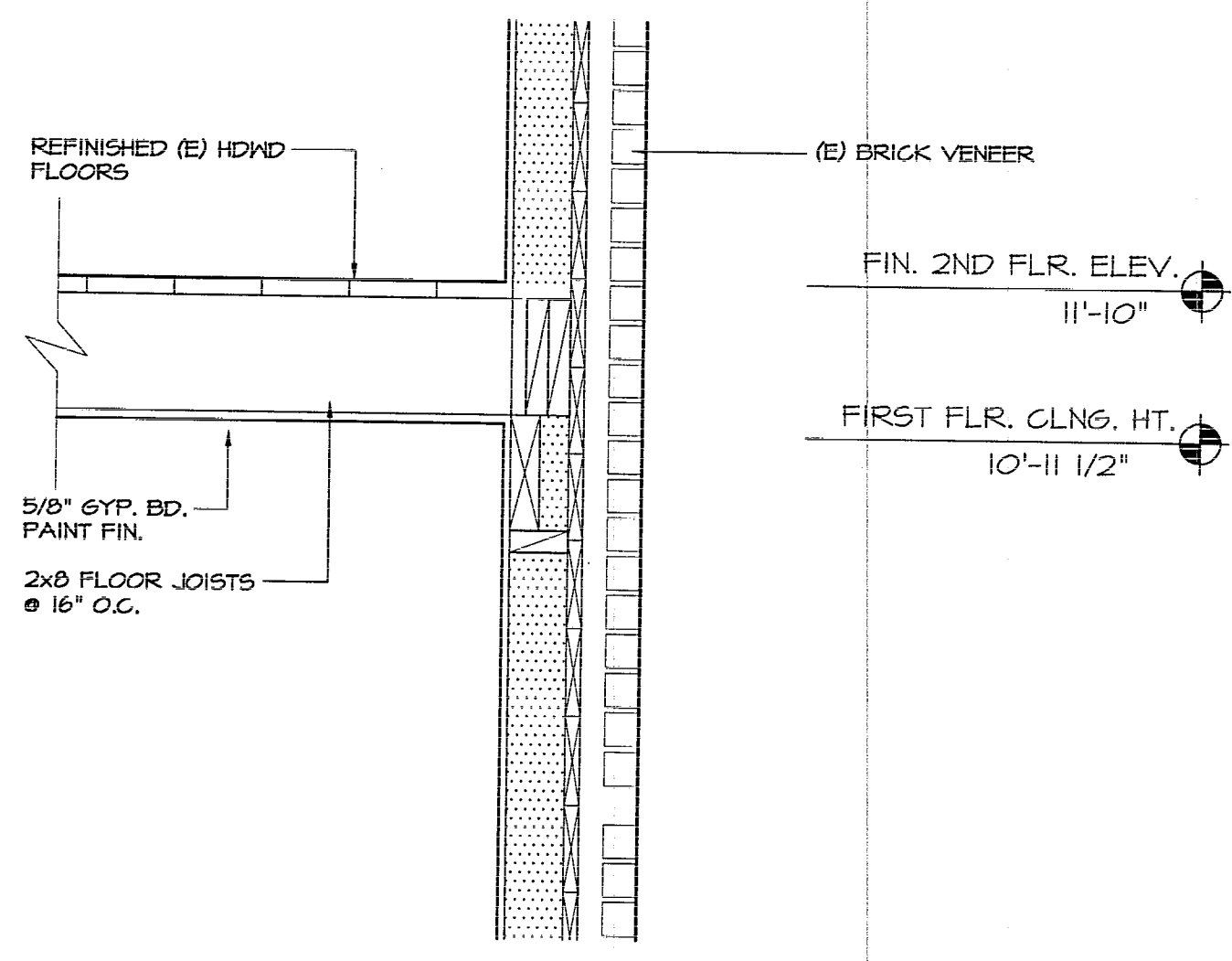
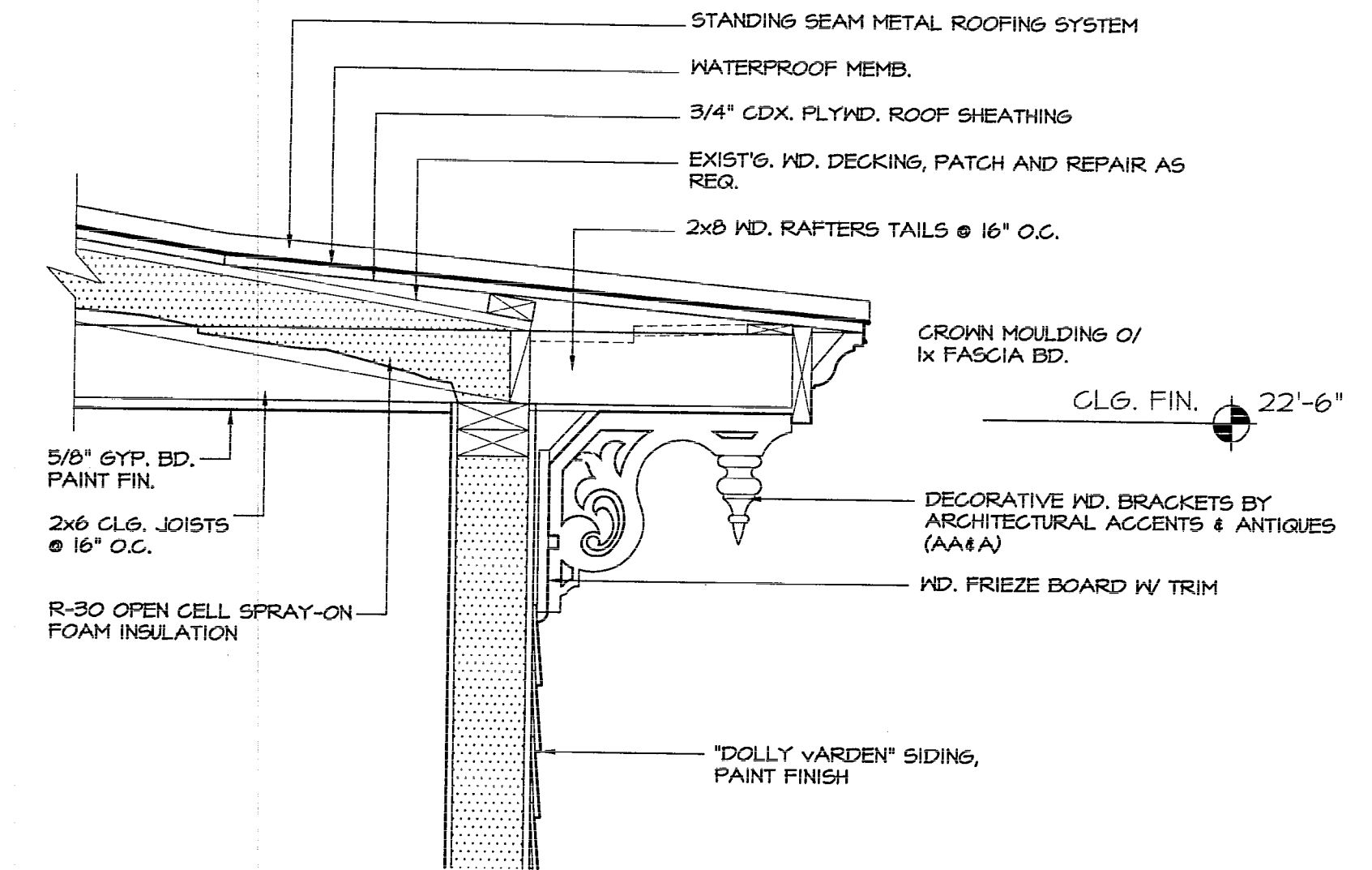
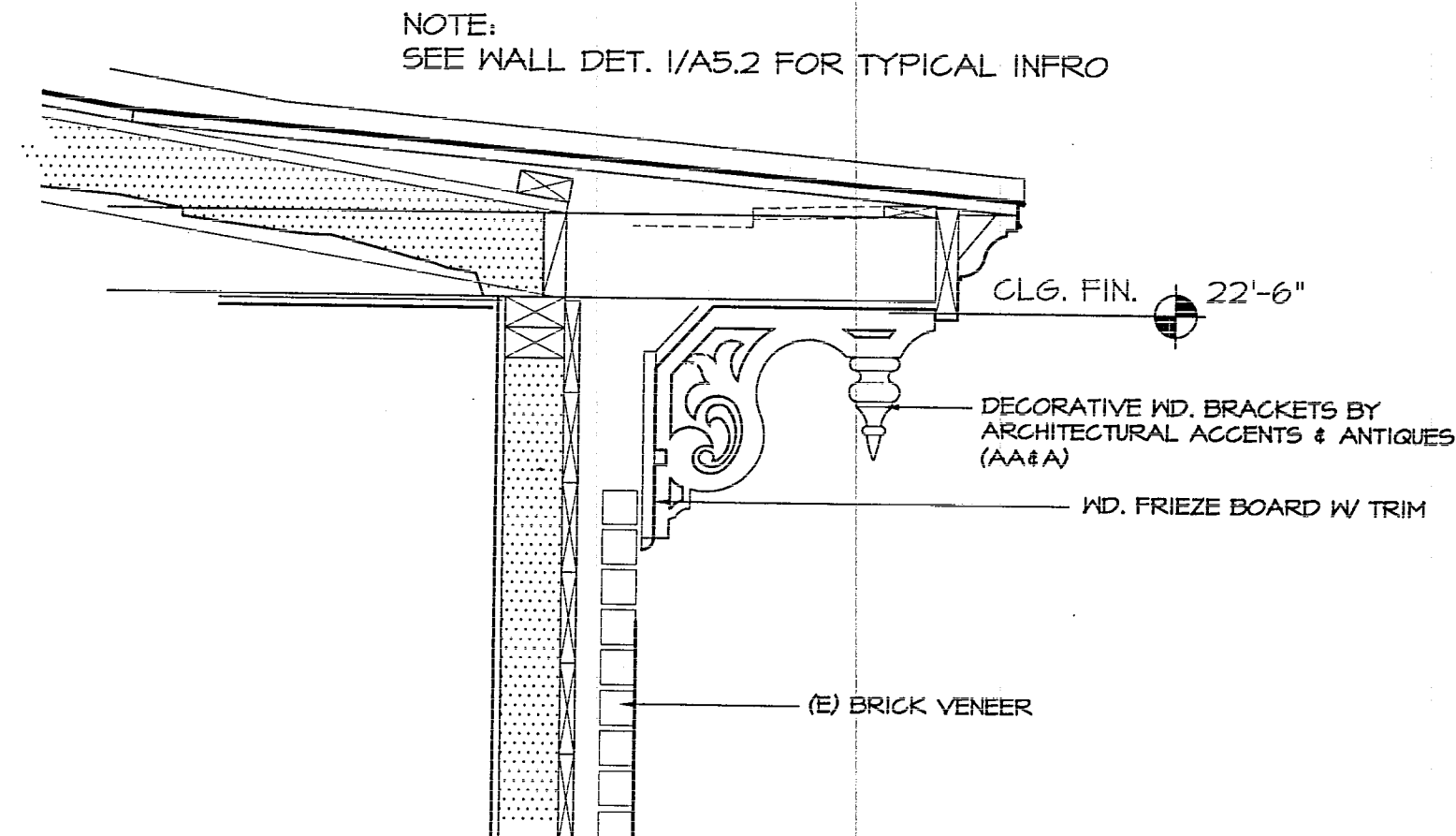
**CNN 8696-01**

RESTORATION OF  
**BREWSTER HOSPITAL**  
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TYPICAL WALL SECTIONS

Drawn by: **RWO**  
 Job: **0103**  
 Sheet

**A5.2**  
 Sht. A5.2 of Shts.



**2 WALL SECTION**  
 A5.2 SCALE: 1"=1'-0"

**1 WALL SECTION**  
 A5.2 SCALE: 1"=1'-0"



**DESIGN SPECIFICATIONS:**

DESIGN CODE: 2004 FLORIDA BUILDING CODE (FBC)  
 OCCUPANCY GROUP: BUSINESS B  
 CONSTRUCTION: TYPE V, UNPROTECTED  
 BASIC WIND SPEED: 110 MPH  
 WIND IMPORTANCE FACTOR: 1.0 (CATEGORY II STRUCTURE)  
 WIND EXPOSURE: B  
 INTERNAL PRESSURE COEFFICIENT: ± 0.18 ENCLOSED  
 MAXIMUM DESIGN WIND PRESSURES (PSF):

OPENING SIZE (SF)	EDGE ZONES (4'-0" FROM OUTSIDE CORNERS)	INTERIOR ZONE
0-20	+25 and (-)33.5	+25 and (-)27.2
21-50	+23.9 and (-)31.3	+23.9 and (-)26
51-100	+22.4 and (-)28.3	+22.4 and (-)24.5
>100	+21.3 and (-)26	+21.3 and (-)23.4

DESIGN LIVE LOADS:  
 PORCH: 60 PSF  
 CORRIDOR: 100 PSF  
 OFFICE: 50 PSF  
 DESIGN DEAD LOADS:  
 PORCH: 10 PSF  
 WALL: 100 PLF  
 FLOOR: 10 PSF

**SOILS:**

MINIMUM ASSUMED ALLOWABLE SOIL BEARING CAPACITY = 2500 PSF  
 SUBSURFACE SOIL CONDITIONS WERE NOT AVAILABLE AT THE TIME OF THIS DESIGN. THE OWNER SHALL PROVIDE TO THE CONTRACTOR A REPORT OF THE SUBSURFACE CONDITIONS. SOIL PREPARATIONS NOTED IN SAID REPORT SHALL BE FOLLOWED UNLESS MORE STRINGENT DESIGN IS SPECIFIED WITHIN THESE PLANS.  
 THE FILL BELOW THE FOUNDATION SHOULD BE FREE OF DEBRIS, ORGANIC MATERIAL, COHESIVE SOILS OR ANY OTHER DELETERIOUS MATERIAL. SOIL MUST BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR A DEPTH OF 2'-0" BELOW THE BOTTOM OF THE FOOTING.

**FOOTINGS AND FOUNDATIONS:**

FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH FBC AND AS NOTED IN THESE PLANS.  
 WELDED WIRE FABRIC (WWF) SHALL BE A185.

**CONCRETE:**

CAST-IN-PLACE CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.  
 CONCRETE AND STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC.

**STEEL REINFORCEMENT:**

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 OR BETTER  
 STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC, ACI 318 AND AS NOTED IN THESE PLANS.  
 CONCRETE COVER SHALL BE IN ACCORDANCE WITH FBC AND AS FOLLOWS:  
 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH  
 2" FOR CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND  
 1 1/2" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND

VERTICAL AND HORIZONTAL REINFORCEMENT WILL BE LAPPED FOR 36 BAR DIAMETERS OR 24", WHICHEVER IS GREATER.  
 CORNER REINFORCEMENT SHALL BE LAPPED 30".  
 ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:  
 MASONRY: 48 BAR DIA.

**MASONRY:**

MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH FBC AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1-99.  
 ACI 3.5 D LIMITS THE GROUT LIFT HEIGHT TO 5' AND REQUIRES A 1-HOUR INITIAL SET TIME BETWEEN LIFTS.

**GROUT:**

THE GROUT SHALL BE IN ACCORDANCE WITH ASTM C 478 AND SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/8" PLACED AT AN 8" TO 11" SLUMP AND HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C 1019.

**\*\* CONVENTIONAL STRAPPING:**

WHERE "CONVENTIONAL STRAPPING" IS SHOWN ON THESE PLANS, USE:  
 SIMPSON SP2 W/ (8) 10# NAILS EACH END FOR WALL STUD TO TOP PLATE CONNECTIONS @ 32" O.C.  
 SIMPSON CS20 APPROX. 37" LG. FROM SECOND FLOOR WALL STUDS TO FIRST FLOOR WALL STUDS @ 32" O.C.  
 SIMPSON CS20 APPROX. 30" LG. FROM FIRST FLOOR WALL STUDS TO 6x6 RM BEAM @ 32" O.C.

**MASONRY CONSTRUCTION:**

CONCRETE MASONRY UNITS SHALL BE HOLLOW UNIT MASONRY IN ACCORDANCE WITH ASTM C 90 AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI WHEN USING TYPE M OR S MORTAR (ASTM C 270) IN ACCORDANCE WITH ACI 530, THE 1900 PSI BLOCK IN COMBINATION WITH TYPE M OR S MORTAR PROVIDES A DESIGN COMPRESSIVE STRENGTH (f<sub>m</sub>) OF 1500 PSI.  
 SEE SECTION ABOVE FOR GROUT SPECIFICATIONS

**DEFINITIONS:**

**GROUT POUR HEIGHT** - THE TOTAL HEIGHT OF MASONRY TO BE GROUTED PRIOR TO ERECTION OF ADDITIONAL MASONRY.  
**GROUT POUR** - CONSISTS OF ONE OR MORE GROUT LIFTS.  
**GROUT LIFT** - THE LAYER OF GROUT PLACED IN A SINGLE CONTINUOUS OPERATION AND IS LIMITED TO 5 FEET (1524 MM).  
**RODDING** - THE ACT OF COMPACTING FRESHLY POURED CONCRETE OR GROUT IN ITS FORM BY FREEING THE MASS OF AIR POCKETS WITH REPEATED STABS OF A ROD.  
**BUILDING** - THE PROCESS OF INDUCING COMPACTION OF GROUT BY USE OF A TAMPING ROD.  
**PLUCK** - THE ACT OF WORKING CONCRETE TO ELIMINATE HONEYCOMB, AND TO PRODUCE A DENSER MASS.  
**BUNDLE STICK** - A STICK OR ROD USED TO CONSOLIDATE GROUT BY HAND.

**MASONRY CONSTRUCTION AND INSPECTION GUIDELINES:**

- LAY UP MASONRY IN RUNNING BOND FOR SIZES AND REINFORCING PER PLANS AND ELEVATIONS.
- FACE SHELLS OF BED JOINT SHALL BE MORTARED.
- WEBS SHALL BE MORTARED AT CELLS TO BE GROUTED.
- VERTICAL CELLS ARE TO BE ALIGNED WHERE THEY ARE TO BE GROUT FILL UNLESS BOND IS SHIFTED DUE TO SITE CONDITIONS.
- INSTALL HORIZONTAL JOINT REINFORCING AT 16 INCHES (407 MM) ON CENTER STARTING FIRST BLOCK ABOVE FOUNDATION.
- MAINTAIN MINIMUM OF 1/2 INCH (12.7 MM) COVER ON JOINT REINFORCING TO EXTERIOR AND REINFORCING SHALL BE EMBEDDED IN MORTAR.
- GROUT SPACES BOTH VERTICAL AND HORIZONTAL, ARE TO BE SUBSTANTIALLY FREE OF DROPPINGS, DEBRIS, LOOSE AGGREGATE AND ANY MATERIAL DELETERIOUS TO MASONRY GROUT.
- INSTALL REINFORCING IN GROUT CELLS PRIOR TO GROUTING.
- GROUT SPACES ARE TO BE INSPECTED PRIOR TO PLACING GROUT.
- FILL CELLS AS NOTED ON THE PLANS, ELEVATIONS AND DETAILS.
- PLACE GROUT IN LIFT TO 60 INCHES IN HEIGHT (CLEAN OUT HOLES ARE NOT REQUIRED).
- A REINFORCING BAR MAY BE USED TO ROD GROUT IN CELL, TO ENSURE THERE ARE NO VOIDS IN GROUT.
- PLACE REINFORCING APPROXIMATELY 1 INCH (25 MM) TO THE SIDE OF DOWEL IN CELL (ACI 530-1.12.3.3)
- GROUT SHOULD SET IN APPROXIMATELY 90 MINUTES DEPENDING ON GROUT SLUMP AND WEATHER CONDITIONS.
- DO NOT BEND OR MOVE REINFORCING AFTER GROUT HAS SET.
- FILL ALL CELLS SOLID BELOW FINISH FLOOR ELEVATION.
- PROVIDE LEVEL "B" QUALITY ASSURANCE, AS PER ACI 530-05 TABLE 1.15.2.

**TOLERANCES:**

**CENTER REINFORCING:**  
 CENTERLINE LOCATION SHOULD BE WITHIN 1/2 INCH (13MM) OF CENTER OF MASONRY.  
 HORIZONTAL LOCATION SHALL BE WITHIN 2 INCHES (51 MM) OF THE CENTER OF THE CELL.  
 REINFORCING SHALL MAINTAIN POSITION WITHOUT BEING TIED.  
 DO NOT MOVE REINFORCING AFTER INITIAL SET OF GROUT.

**REINFORCING AT EACH FACE:**  
 MAINTAIN AT LEAST 1/4 INCH (6 MM) CLEAR OF MASONRY FOR FINE GROUT AND 1/2 INCH (13 MM) FOR COARSE GROUT.  
 REINFORCING SHALL BE PLACED 1 INCH CLEAR TO THE SIDE OF THE DOWELS.

**DO NOT MEASURE DRAWINGS**  
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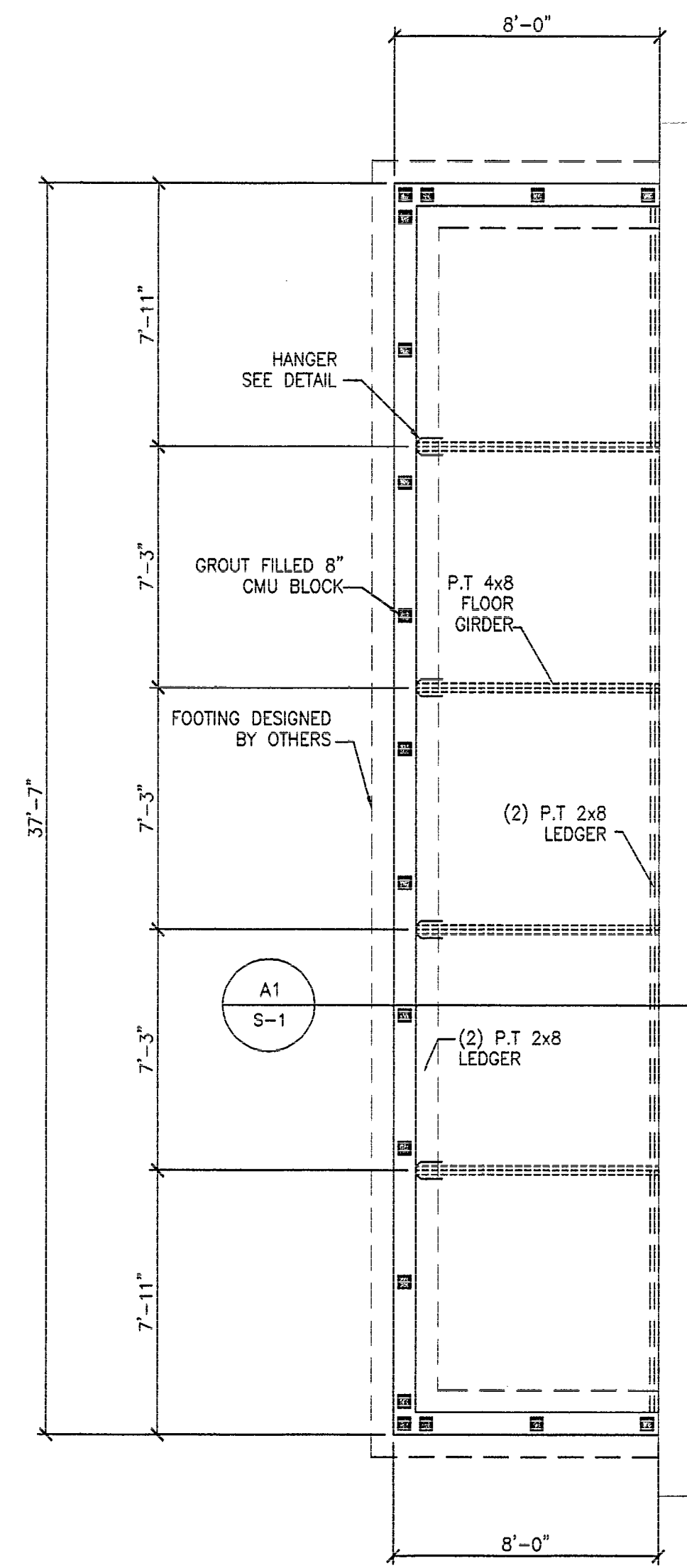
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 FL LICENSE # 60000  
 Date: 3/18/09

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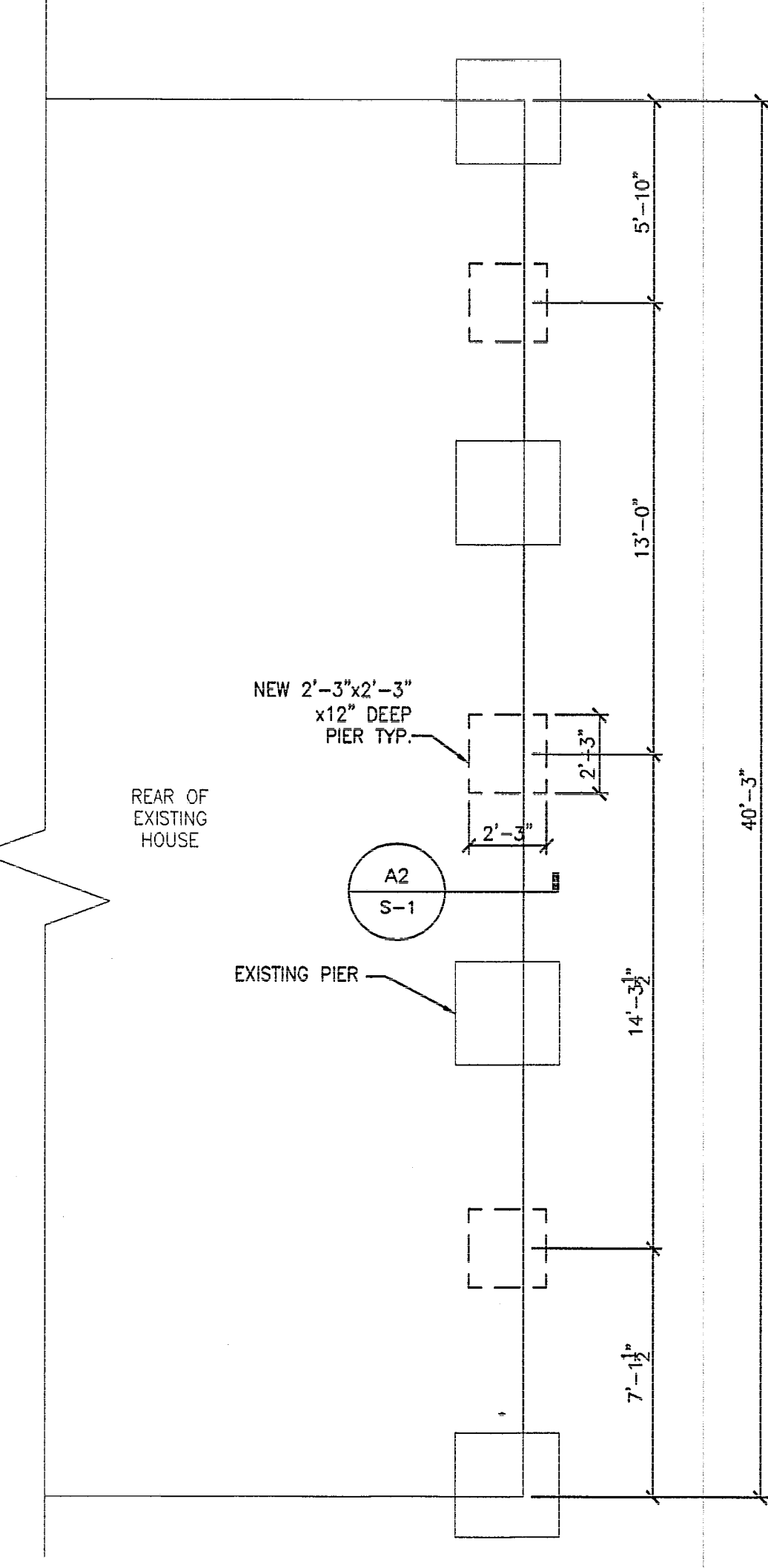
RESTORATION OF  
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PORCH CMU WALL  
 AND REAR  
 PILASTER PLAN

Drawn by:  
 Job:  
 Sheet  
 S-1  
 Sht. of Shts.



**FRONT PORCH CMU WALL PLAN**  
 SCALE: 1/4" = 1'-0"



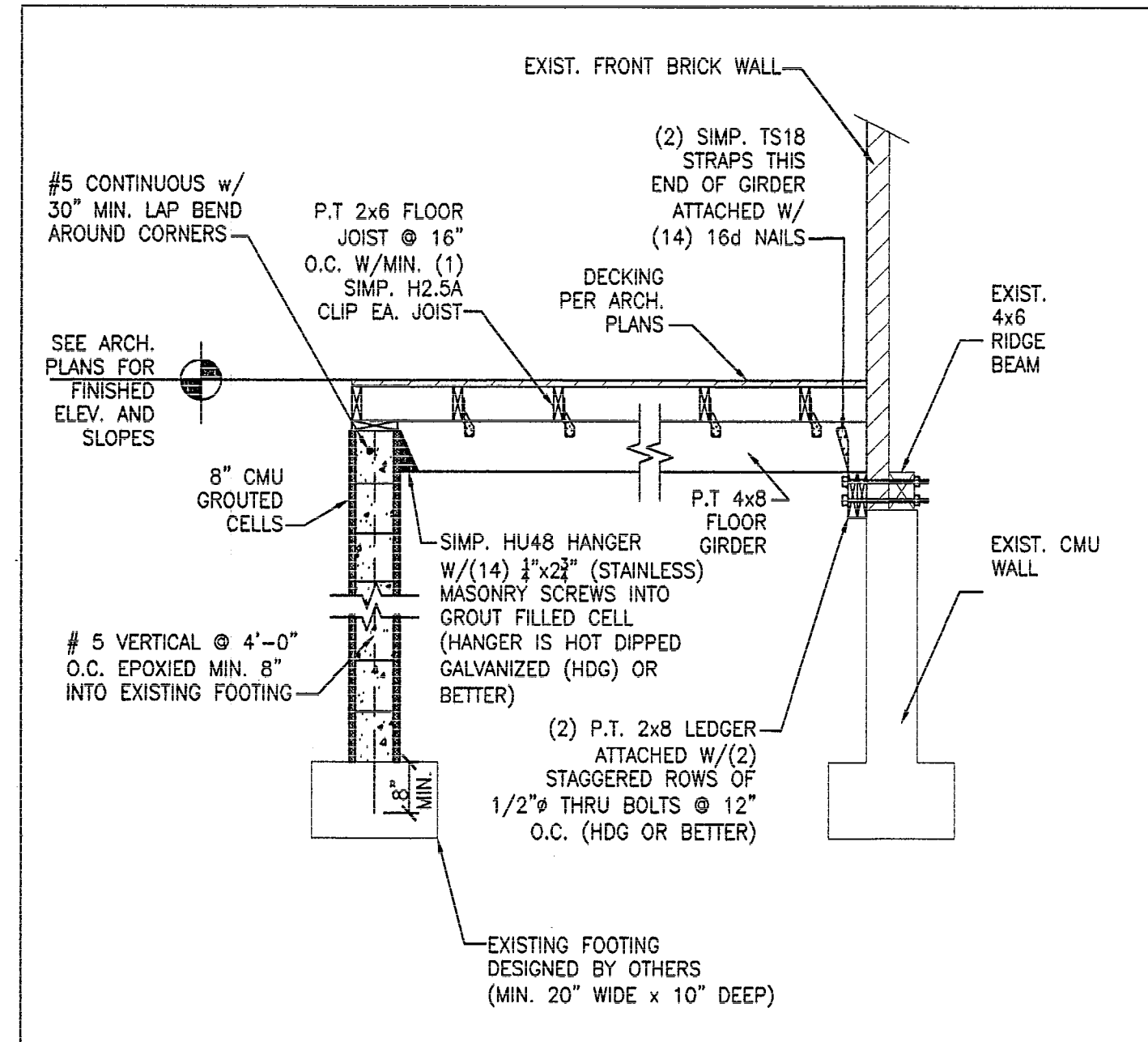
**NEW PIERS AT REAR OF STRUCTURE PLAN**  
 SCALE: 1/4" = 1'-0"

**LINETYPE KEY**

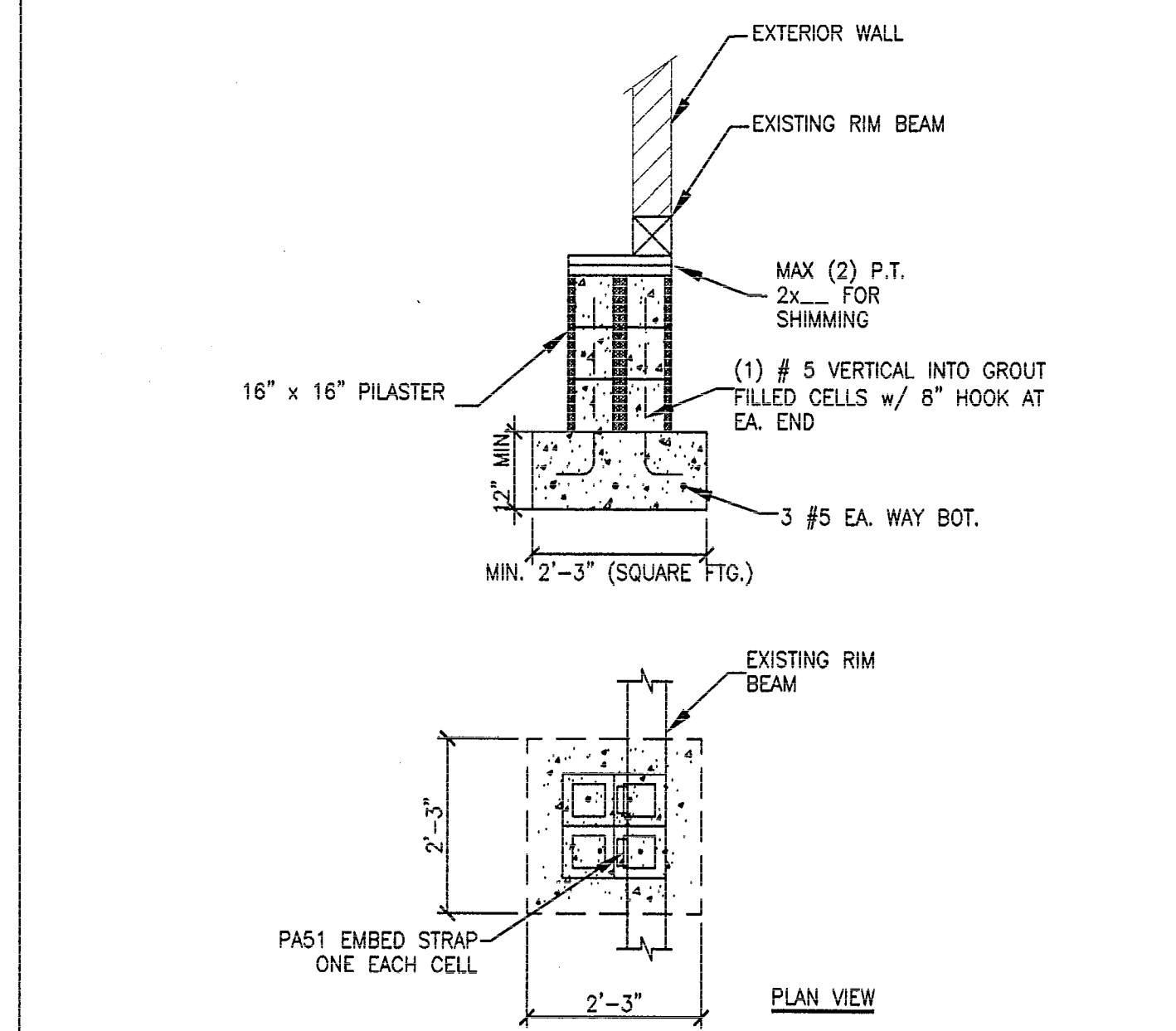
—————	CONCRETE
-----	CONCRETE HIDDEN
-----	GIRDER
-----	LEDGER
-----	FLOOR JOIST

**DIMENSIONS ARE APPROXIMATE**

THE E.O.R. SHALL BE NOTIFIED IF EXISTING SITE CONDITIONS DEVIATE FROM ORIGINAL PLANS PROVIDED TO BAKER KLEIN ENGINEERING, P.L. OR IF CHANGES ARE MADE FROM ORIGINAL ARCHITECTURAL DESIGN.  
 THE SUPPORT STRUCTURE OUTLINED WITHIN THESE PLANS IS BASED ON THE LOADING AND LOCATION OF TRUSSES, BEAMS AND BEARING WALLS AS PROVIDED BY THE ARCHITECT, FOUNDATION DESIGNER, AND EXISTING CONDITIONS. THE E.O.R. IS NOT RESPONSIBLE FOR MIS-ALIGNMENT OF STRUCTURAL MEMBERS



**PORCH FRAMING AT TYPICAL LOCATION**  
 SCALE: 1/2" = 1'-0"



**PILASTER DETAIL @ REAR OF STRUCTURE**  
 SCALE: 1/2" = 1'-0"

THESE STRUCTURAL PLANS WERE PREPARED WITH CAD FILES OF THE ARCHITECTURAL FLOORPLANS PROVIDED BY JAYCOX REINEL ARCHITECTS AND BY A FOUNDATION PLAN BY ANCHOR ENGINEERING, INC. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR THE DIMENSIONAL ACCURACY OF THESE PLANS AND RECOMMENDS THAT OWNER/CONTRACTOR REVIEW THESE STRUCTURAL PLANS FOR APPROVAL OF DIMENSIONING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMS. AND NOTIFY E.O.R. IF ASSUMPTIONS OR INFORMATION IS INCORRECT

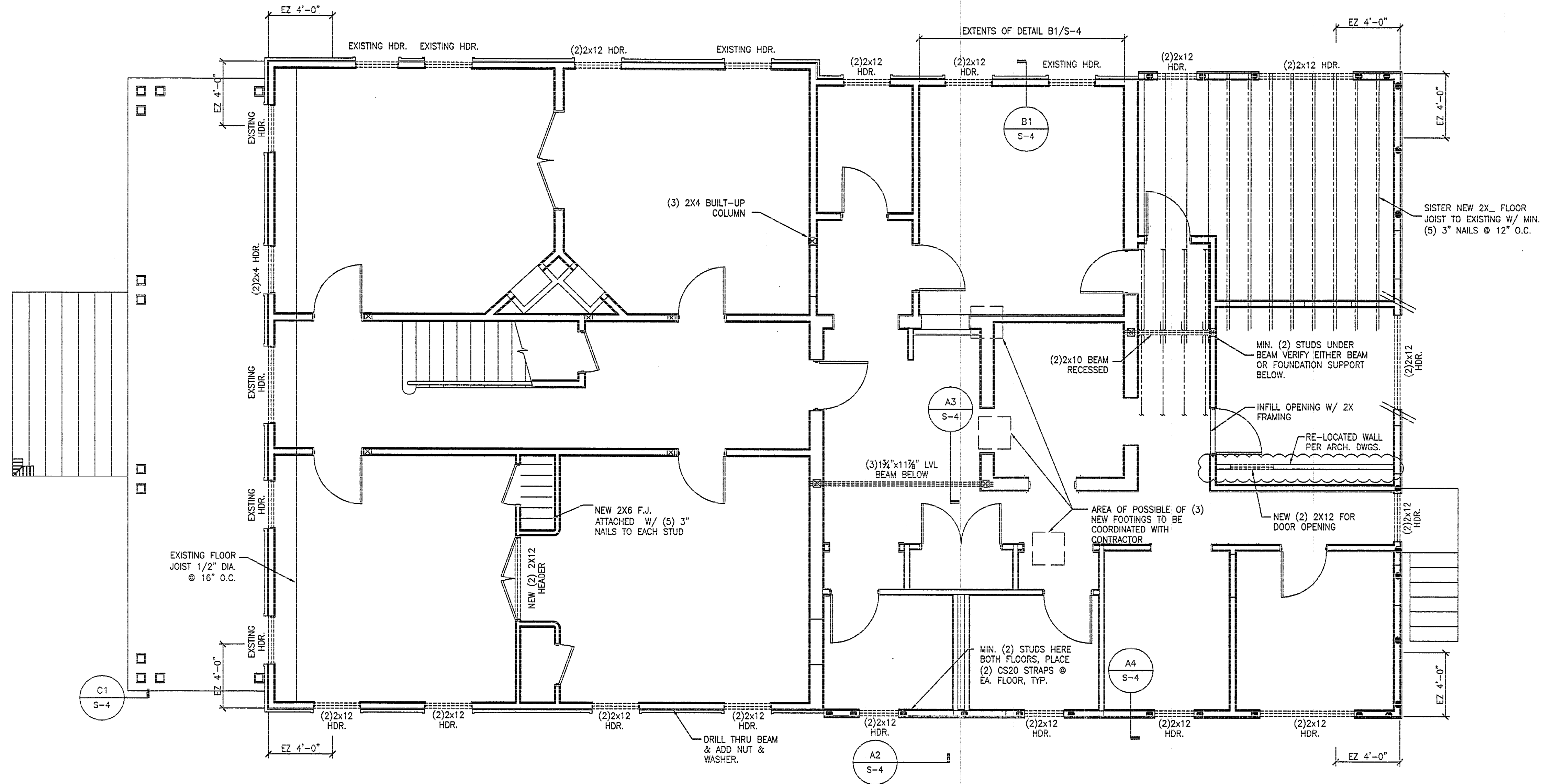
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**SYMBOL KEY**

●	1/2" DIA. THREADED ROD LOCATION W/ 3X3X1/4" WASHER @ 48" O.C. & ON EA. SIDE OF EA. OPENING & AT ENDS OF EA. WALL & WHERE SHOWN
**	CONVENTIONAL STRAPPING (SEE DETAIL ON SHT. S-4 & DESCRIPTION ON S-1)
///	FASTEN (2) SIMPSON MSTA36 FLAT STRAPS
EZ=	4'-0"

**FIRST FLOOR CEILING FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"

NOTES TO CONTRACTOR:  
 1. NEW OR RENOVATED INTERIOR OPENINGS IN BEARING WALLS WILL REQUIRE A NEW (2)2x12 HDR. (TYP).  
 2. ALL ROTTEN OR DAMAGED WOOD SHALL BE REPLACED WITH LIKE KIND OR BETTER.

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FIRST FLOOR  
 FRAMING PLAN

Drawn by:  
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 S-2 of Shts

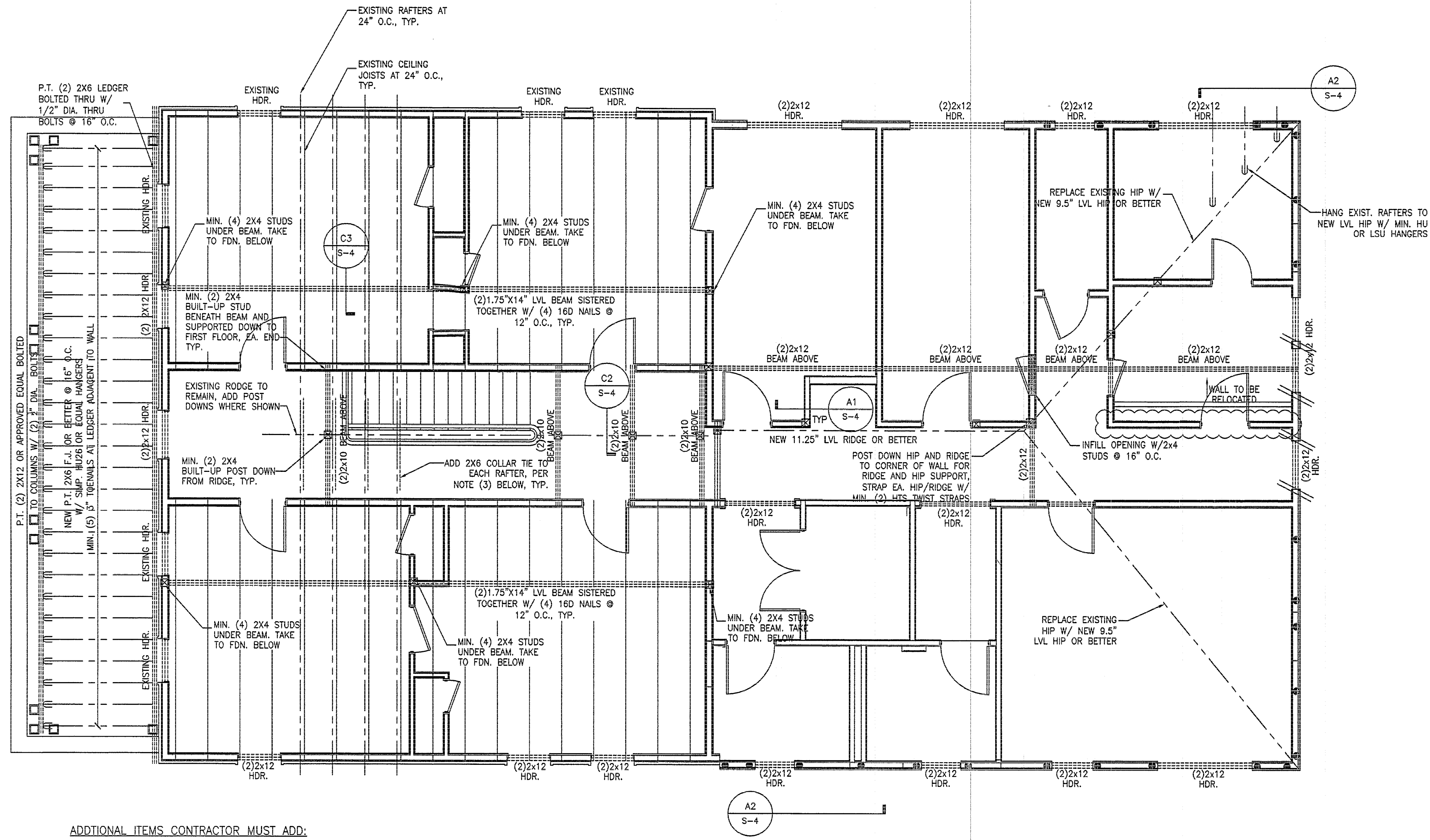
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- ADDITIONAL ITEMS CONTRACTOR MUST ADD:
- 1) CLIP ALL RAFTERS TO TOP PLATE w/(1)H8 MIN.
  - 2) FASTEN ALL RAFTER TAILS TO RAFTERS w/(8)10d NAILS @ 4\" O.C.
  - 3) CONTRACTOR SHALL INSTALL (1)1.75 x 9.5\" LVL RIDGE BOARD w/ 2x6 COLLAR TIES. FACE NAILED TO RAFTERS w/(6) .131x3\" NAILS EACH SIDE.
  - 4) AT DAMAGED OR SPLIT RAFTERS SISTER OVER SPLIT AREA w/ (2) 2X MEMBERS ON EACH SIDE. EXTEND ADD'L 2X A MIN. OF 18\" PAST DAMAGED ZONE AND NAIL w/ (6) NAILS @ 8\" O.C.
- ADD MIN. (2) SYP. 2X4 POST DOWN (U.N.O.) BUILT-UP STUD W/ MIN. (2) HTS TWIST STRAPS TOP AND BOTTOM FOR UPLIFT SUPPORT. SEE DETAIL C2/S-4

**SECOND FLOOR CEILING/ROOF  
 FRAMING PLAN** SCALE: 1/4\" = 1'-0\"

- CONVENTIONAL FRAMING NOTES:
1. ALL CONVENTIONAL FRAMING SHALL BE SYP. NO. 2 OR BETTER.
  2. FASTEN ALL RAFTERS AT RIDGES WITH 2X6 COLLAR TIES. FACE-NAIL COLLAR TIES TO RAFTERS WITH (8) .131 X 3\" NAILS.
  3. FASTEN ALL JACK RAFT. TO HIPPS AND VALLEYS w/(5) .131 X 3\" TOE-NAILS.
  4. FASTEN ALL HIP AND VALLEYS TO PLATES WITH (2) SIMP. MTS12 TWIST STRAPS w/(7) 10d X 1.5\" NAILS EACH END OF EACH STRAP.
  5. BENEATH EACH HIP OR VALLEY TO PLATE CONN. USE MIN. (2) SYP.#2 STUDS BENEATH.
  6. FROM POST TO PLATE/WALL, STRAP DOWN w/ (2) MSTA24 FLAT STRAPS.

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SECOND FLOOR  
 FRAMING PLAN

Drawn by:  
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S-3

Sht. of Shts.

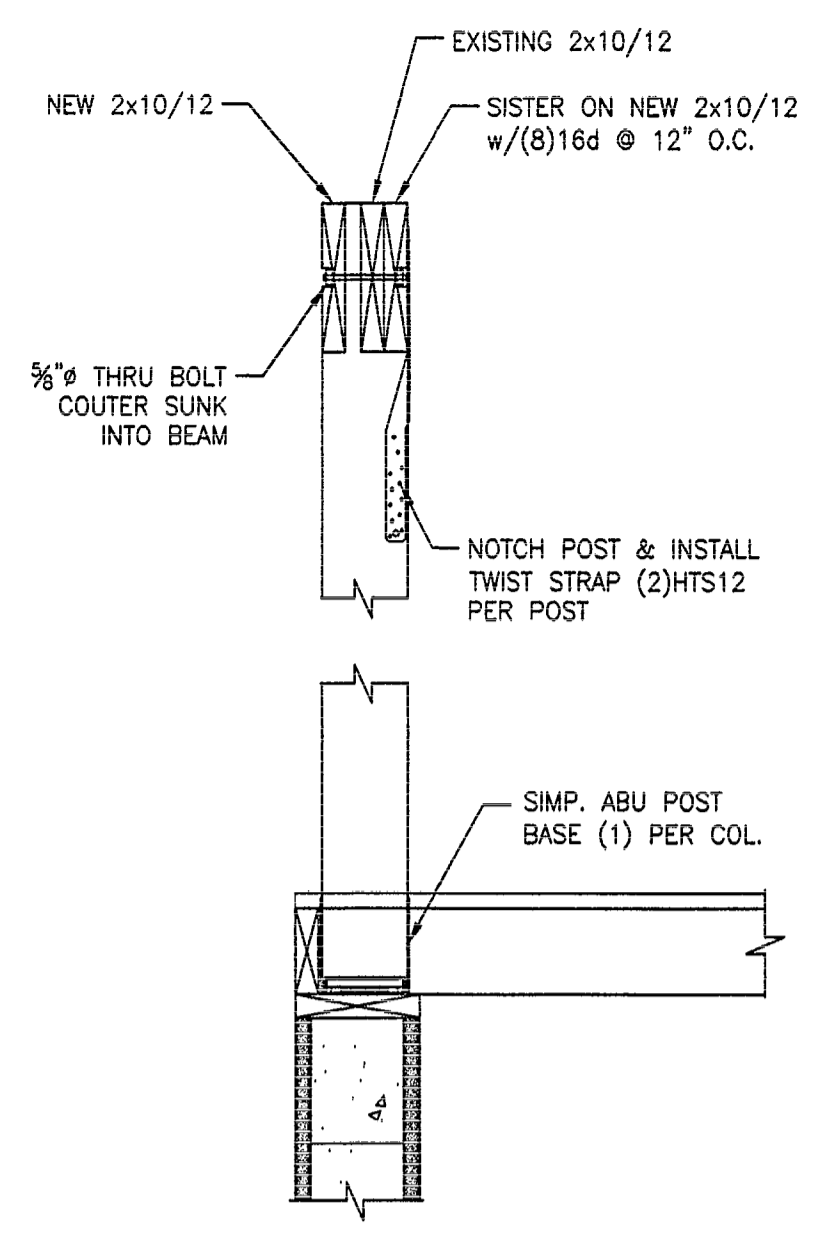
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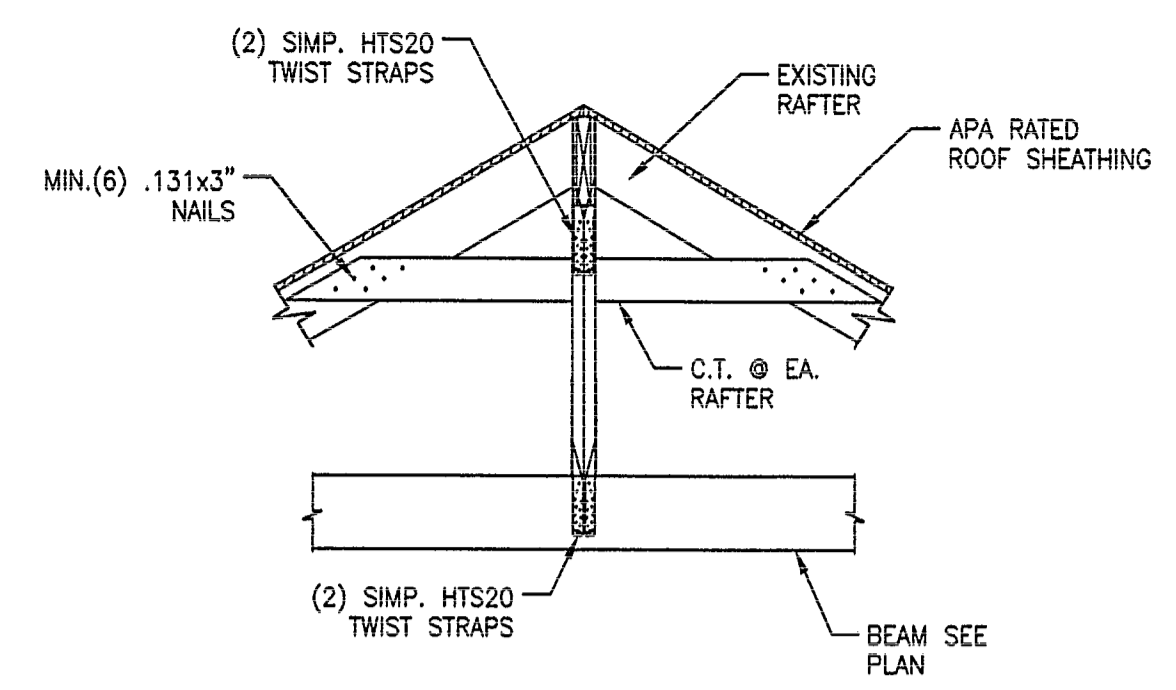
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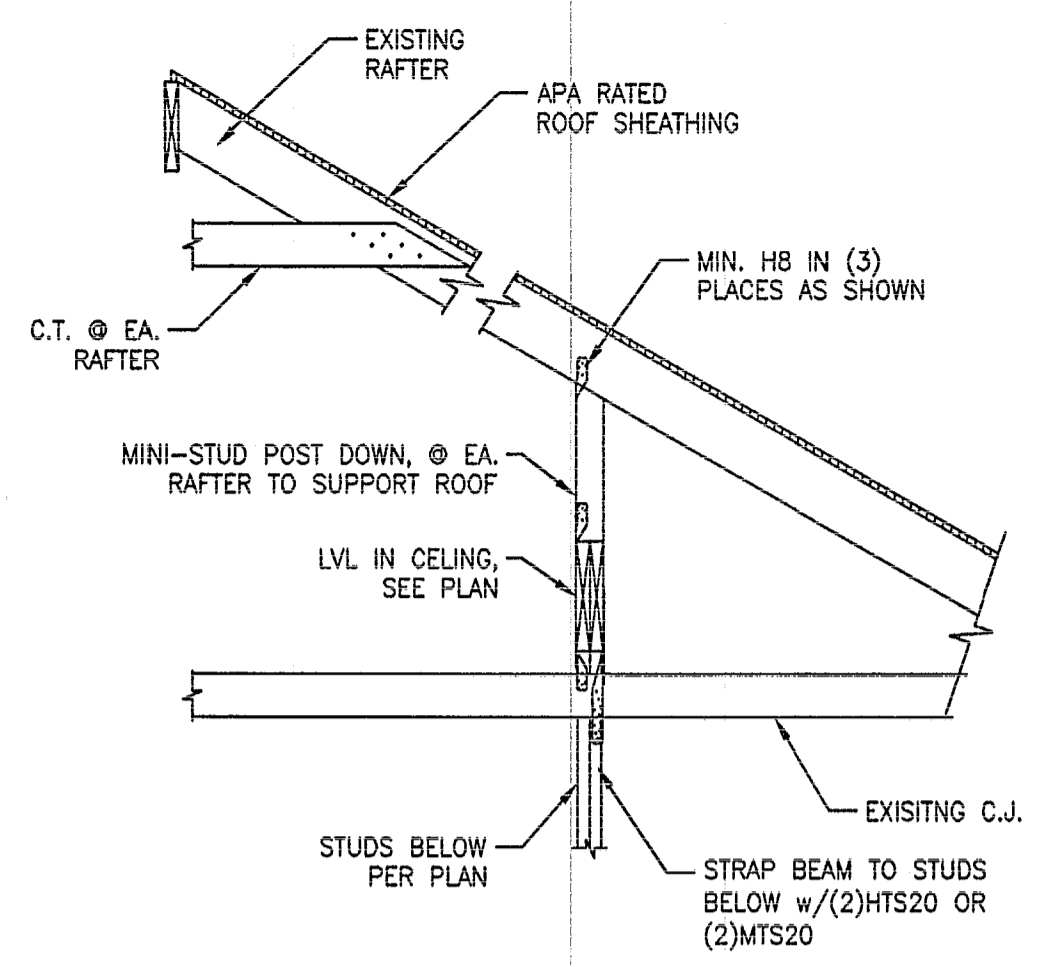
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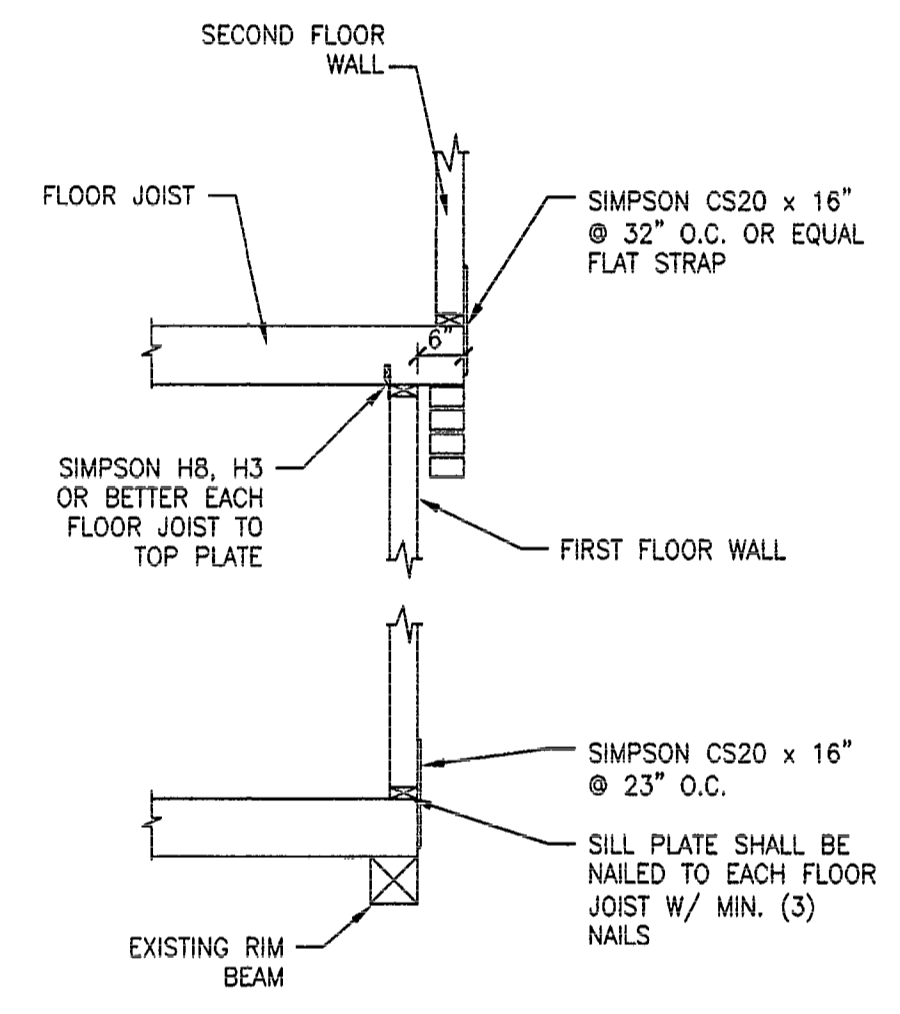
PORCH POST CONNECTION  
 SCALE: N.T.S. (C1)



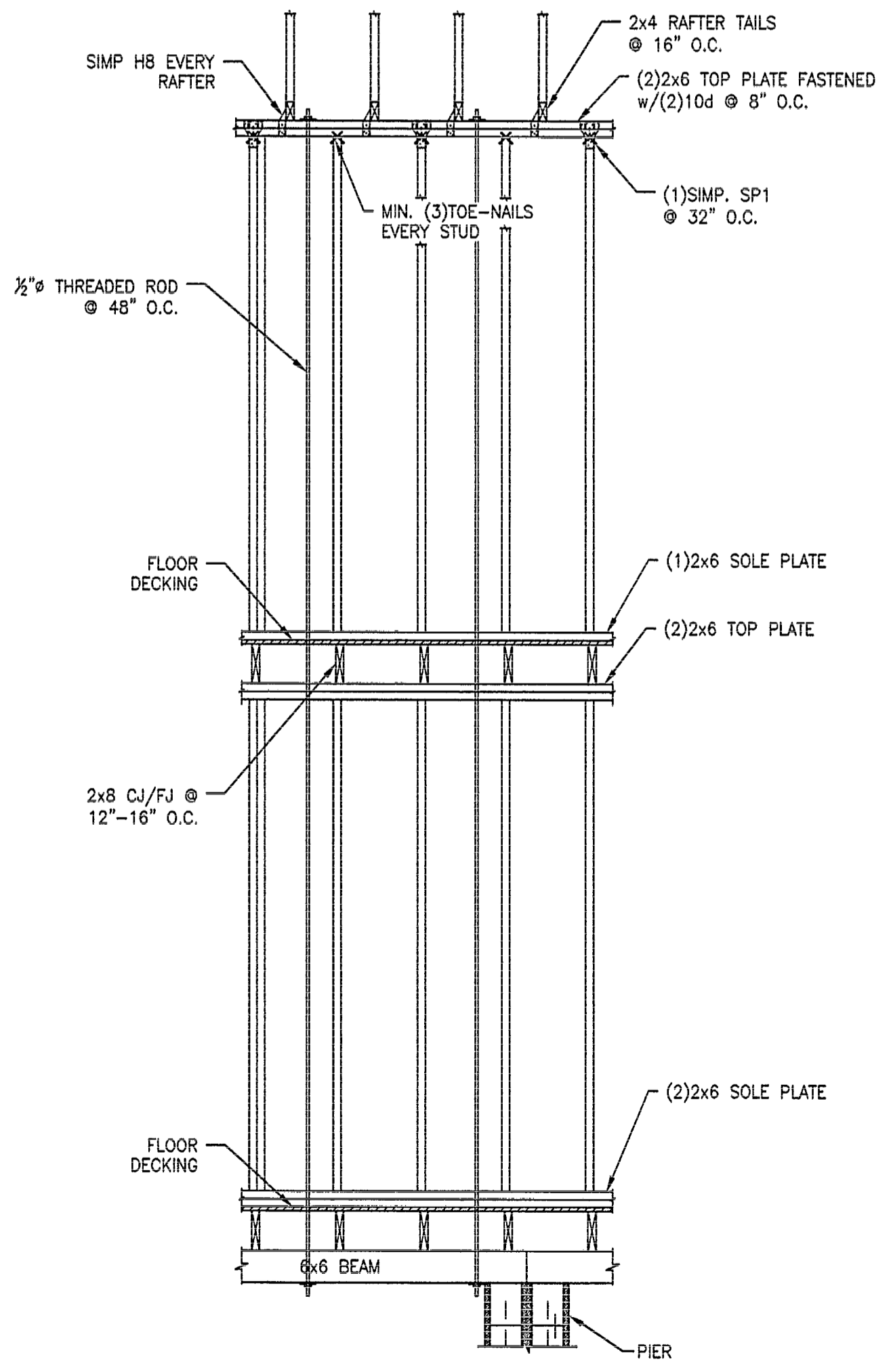
POST DOWN  
 DETAIL (C2)  
 SCALE: 1/2"=1'-0"



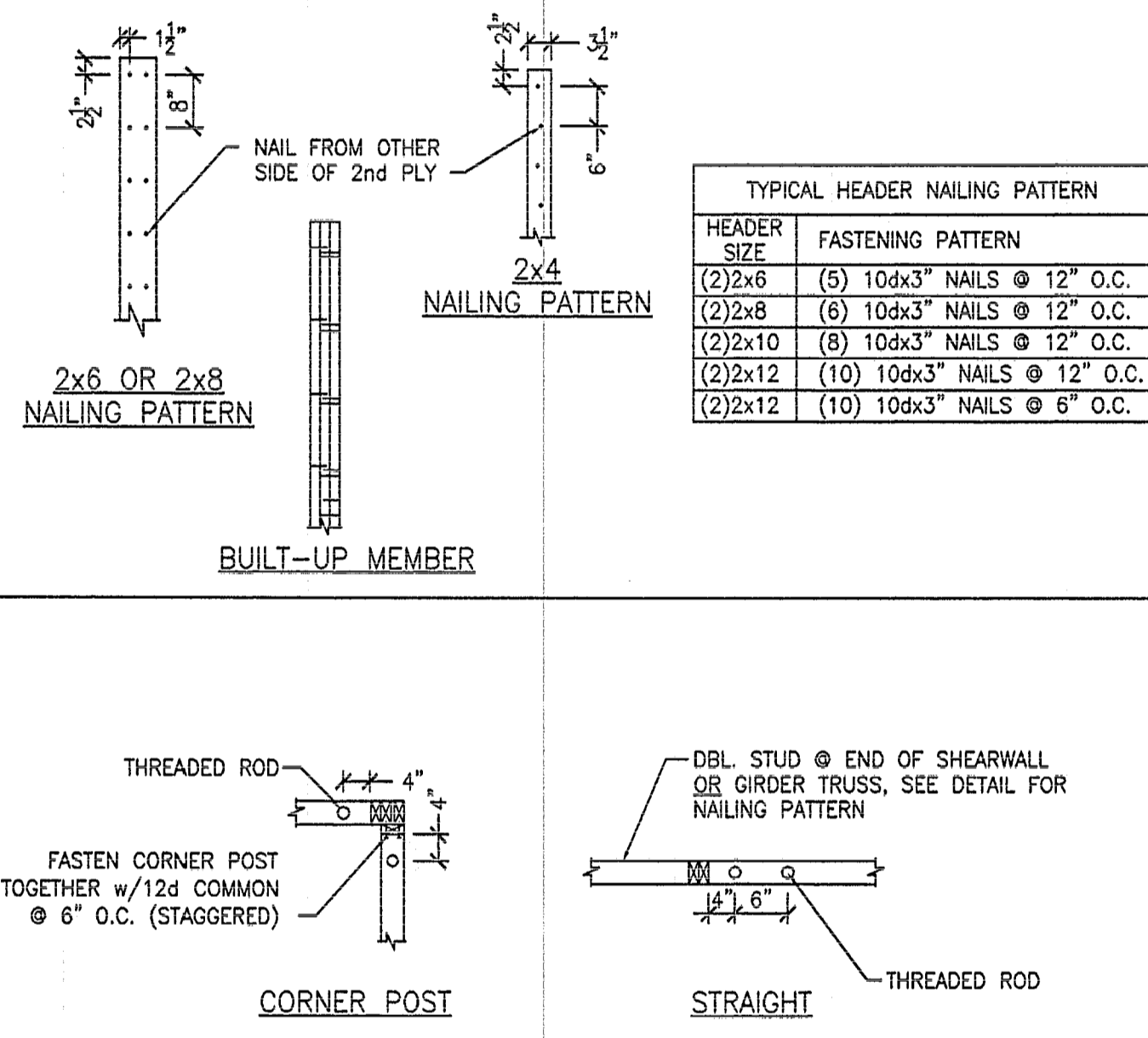
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 SCALE: 1/2"=1'-0"



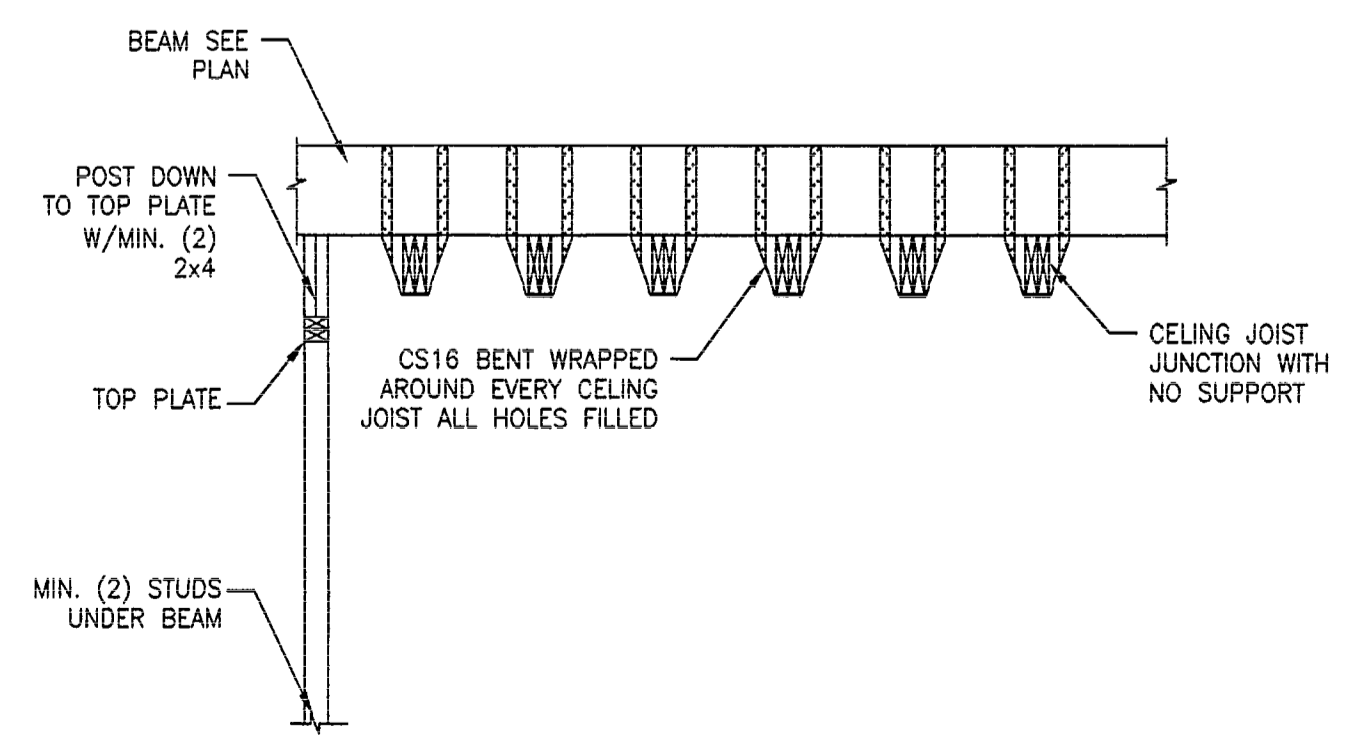
PORCH FRAMING  
 AT TYPICAL LOCATION (B1)  
 SCALE: 1/2"=1'-0"



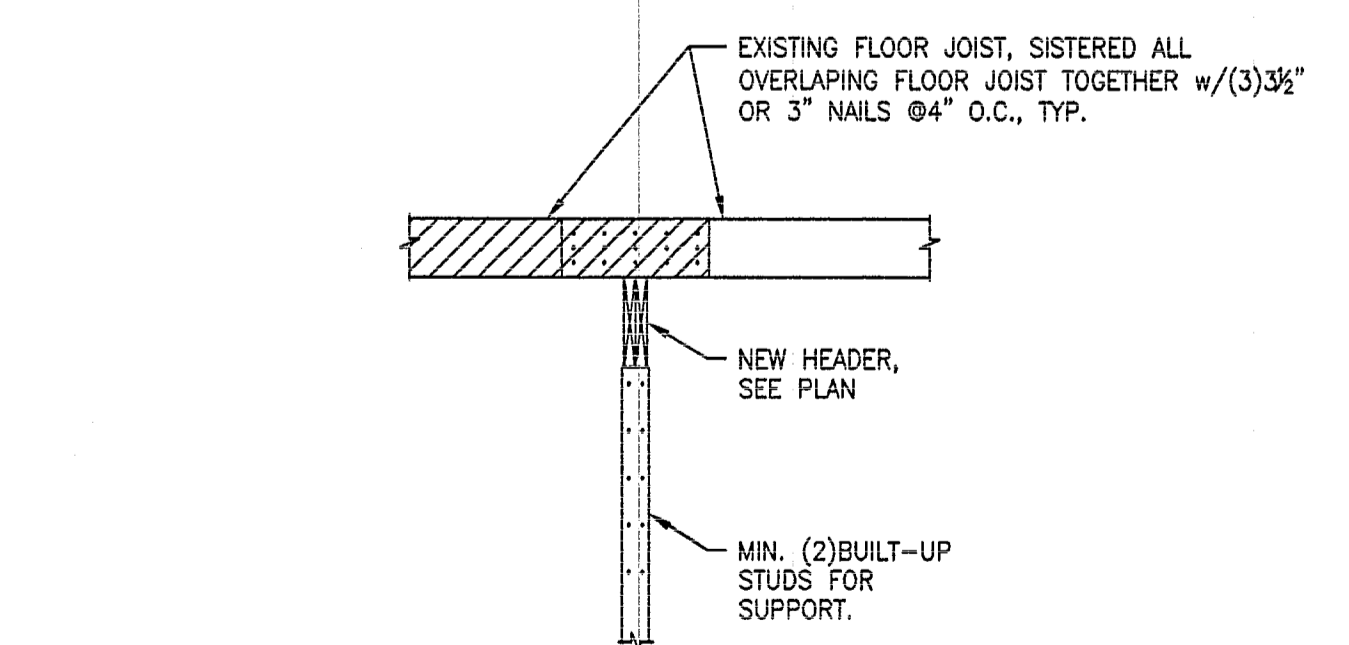
TYPICAL WALL ELEVATION  
 DETAIL (A2)  
 SCALE: 1/2"=1'-0"



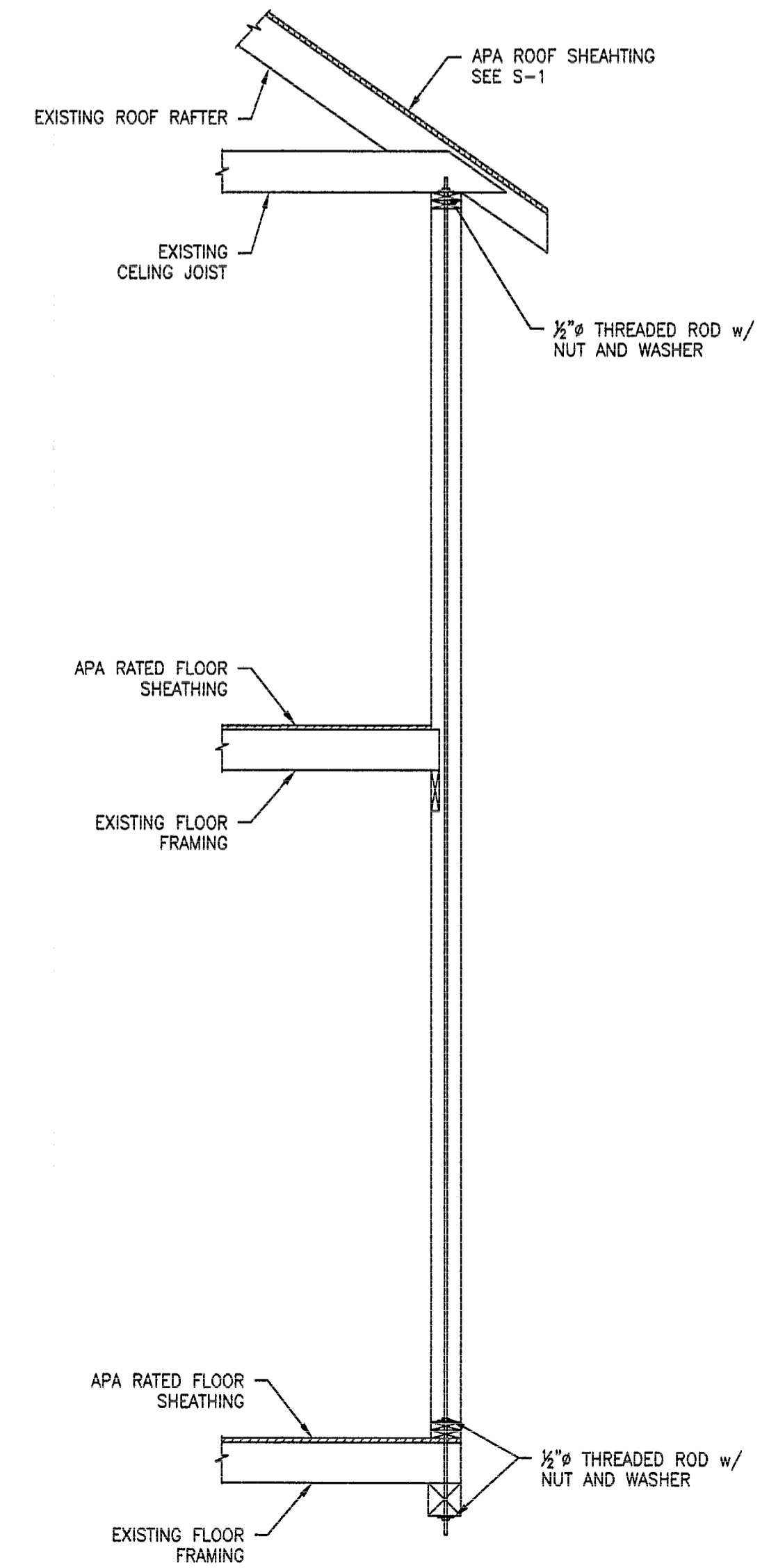
BUILT UP MEMBER AND CORNER  
 DETAILS (B2)  
 SCALE: 1/2"=1'-0"



JOIST SUPPORT  
 BEAM ABOVE CEILING (A1)  
 SCALE: 1/2"=1'-0"



JOIST SUPPORT  
 BEAM BELOW CEILING (A3)  
 SCALE: 1/2"=1'-0"



TYPICAL WALL ELEVATION  
 DETAIL (A4)  
 SCALE: 1/2"=1'-0"

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DETAILS

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S-4  
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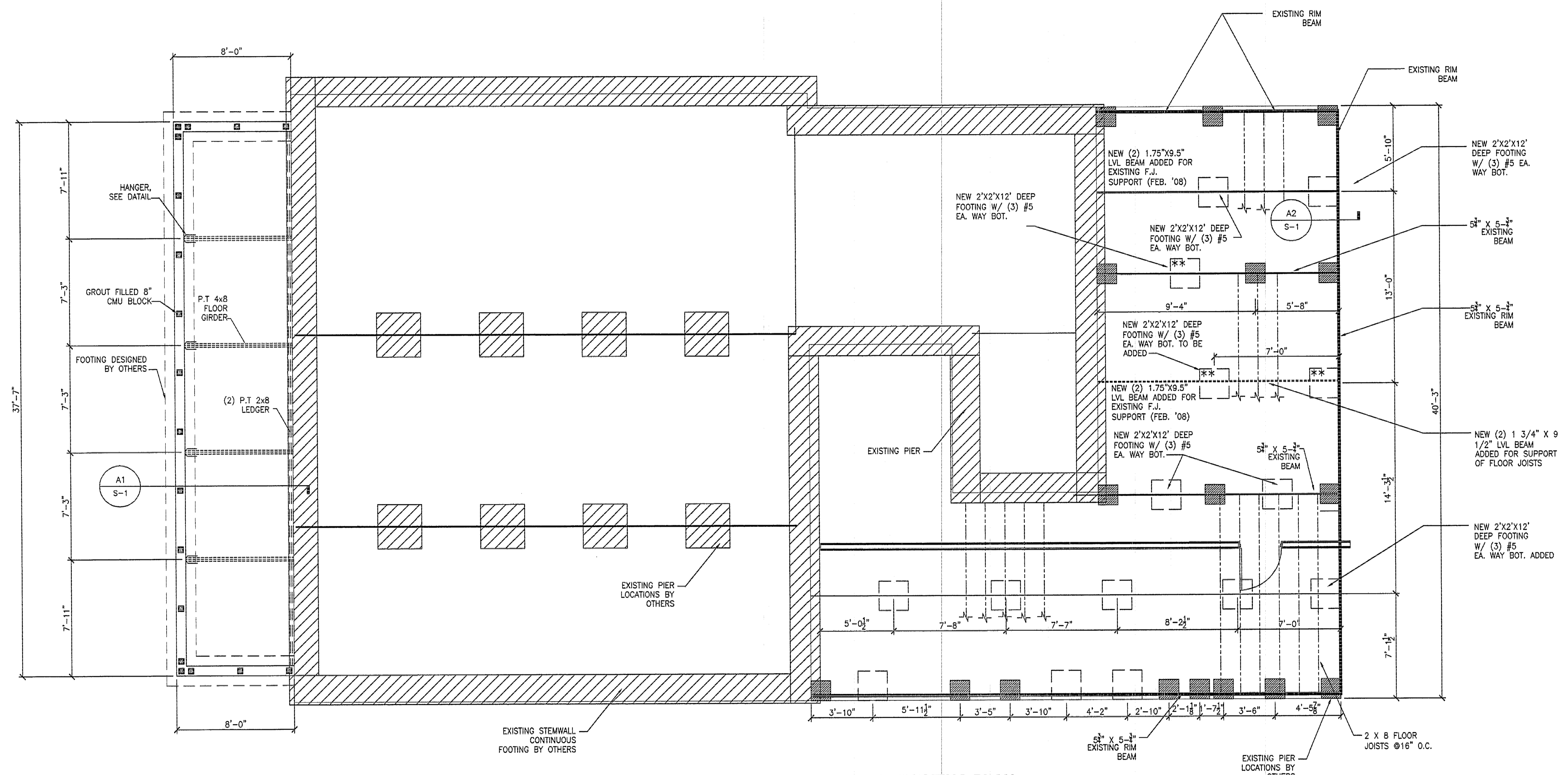
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FL LICENSE # 69000  
10/21/09



**NEW PIER FOOTING PLAN**  
SCALE: 1/4" = 1'-0"

**DIMENSIONS ARE APPROXIMATE**

**LINETYPE KEY**

—————	CONCRETE
- - - - -	CONCRETE HIDDEN
—————	NEW LVL OR BEAM TO BE ADDED
—————	LEDGER
—————	EXISTING FLOOR JOIST

THESE STRUCTURAL PLANS WERE PREPARED WITH CAD FILES OF THE ARCHITECTURAL FLOORPLANS PROVIDED BY JAYCOX REINEL ARCHITECTS AND BY A FOUNDATION PLAN BY ANCHOR ENGINEERING, INC. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR THE DIMENSIONAL ACCURACY OF THESE PLANS AND RECOMMENDS THAT OWNER/CONTRACTOR REVIEWS THESE STRUCTURAL PLANS FOR APPROVAL OF DIMENSIONING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMS. AND NOTIFY E.O.R. IF ASSUMPTIONS OR INFORMATION IS INCORRECT

THE E.O.R. SHALL BE NOTIFIED IF EXISTING SITE CONDITIONS DEVIATE FROM ORIGINAL PLANS PROVIDED TO BAKER KLEIN ENGINEERING, P.L. OR IF CHANGES ARE MADE FROM ORIGINAL ARCHITECTURAL DESIGN.  
THE SUPPORT STRUCTURE OUTLINED WITHIN THESE PLANS IS BASED ON THE LOADING AND LOCATION OF TRUSSES, BEAMS AND BEARING WALLS AS PROVIDED BY THE ARCHITECT, FOUNDATION DESIGNER, AND EXISTING CONDITIONS. THE E.O.R. IS NOT RESPONSIBLE FOR MIS-ALIGNMENT OF STRUCTURAL MEMBERS

**NOTE TO CONTRACTOR: ALL FOOTINGS LABELED "NEW"**  
AND LVL BEAMS (SHOWN) ARE RECOMMENDED TO BE INSTALLED TO MEET THE CURRENT FLORIDA BUILDING CODE REQUIREMENTS FOR BENDING, SHEAR, AND DEFLECTION OF EXISTING BEAMS AND THEIR JOISTS. SOME BEAMS AND FOOTINGS HAVE BEEN INSTALLED AS OF 6.12.08. THREE NEW FOOTINGS ARE LEFT REMAINING TO BE INSTALLED (NOTED WITH \*\*).

**CNN 8696-01**  
RESTORATION OF  
**BREWSTER HOSPITAL**  
Jacksonville, Florida

DETAILS

Drawn by:  
Job:  
Sheet  
**S-5**  
Sht. of Shts

ABBREVIATIONS

Table of abbreviations including A.F.F., AHU, ANSI, ASJ, ATM, ATC, AVG, BHP, B, BOB, BOJ, BOP, BOS, BOT, BTU, MBH, etc.

LINETYPE SYMBOLS

Table of linetype symbols for various systems like CWR, CWS, CH, CP, CO, CW, CT, CD, CU, etc.

APPLICABLE CODES

Table of applicable codes: FLORIDA BUILDING CODE 2004, NATIONAL ELECTRICAL CODE 2002, etc.

GLOSSARY

- FURNISH: PURCHASE AND DELIVER (EQUIPMENT) TO THE JOBSITE ONLY
INSTALL: PROVIDE ALL MISCELLANEOUS MATERIALS AND SERVICES (LABOR AND MATERIAL) REQUIRED TO MAKE EQUIPMENT OPERATIONAL
PROVIDE: FURNISH AND INSTALL
REMARKS OR NOTES: INFORMATION PERTAINING TO OR INDICATED ITEMS ON A SCHEDULE

DESIGN CONDITIONS

Table with columns for LOCATION, WINTER (OUTDOOR, INDOOR), and SUMMER (OUTDOOR, INDOOR) conditions.

GENERAL NOTES

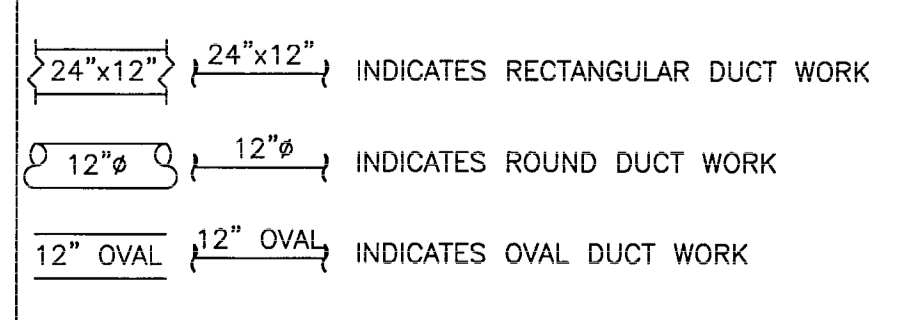
- 1. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS AND TRANSITIONS IN DUCTWORK AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
2. COORDINATE SUPPLY, RETURN, AND EXHAUST DIFFUSERS/REGISTERS/GRILLES AND OTHER MECHANICAL DEVICES WITH LIGHT FIXTURES.
3. HORSEPOWER RATINGS ON MOTORS ARE BASED ON SCHEDULED EQUIPMENT AND DESIGN CONDITIONS. ACTUAL FIELD CONDITIONS OR SUBSTITUTIONS FROM SCHEDULED EQUIPMENT MAY REQUIRE DIFFERENT HORSEPOWER.

SYMBOLS

Table of symbols for various components like BY-PASS DAMPER, CARBON MONOXIDE SENSOR, CONTROL SENSOR, DAMPER, HUMIDISTAT, LEAK DETECTOR, etc.

SYMBOLS

Table of symbols for ductwork components like RECTANGULAR TO ROUND TRANSITION, REDUCER, TURNING VANES IN ELBOW, ELBOW, BALL VALVE, CAP, CHECK VALVE, etc.



ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.

ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL SYMBOLS, EQUIPMENT, AND LEGENDS.

REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL DRAWING NOTES.

Digital signature and stamp for Daryl A. Bryan, Mechanical Engineer, Florida PE No. 68272.

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RESTORATION OF BREWSTER HOSPITAL Jacksonville, Florida

ABBREVIATIONS - LEGENDS AND NOTES

Drawn by: DAE Job: 00141-0108 Sheet

MP1 Sht. 1 of 9 Shts.

Vertical sidebar containing 'JAYCON REINEL', contact information for 'THE OHMEGA GROUP CONSULTING ENGINEERS', and 'MECHANICAL ENGINEER DARYL A. BRYAN, P.E.'.

Bottom right corner containing project number 'MP1' and sheet count 'Sht. 1 of 9 Shts.'.

SPECIFICATIONS

15000 GENERAL

- A. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR COMPLETE AND OPERATING MECHANICAL SYSTEMS. B. MEET THE REQUIREMENTS OF THE FLORIDA MECHANICAL CODE 2004, FLORIDA PLUMBING CODE 2004. NFPA AND LOCAL BUILDING INSPECTORS. AIR CONDITIONING UNITS SHALL BE UL LISTED AND ARI RATED. C. THE SPACE ABOVE THE SUSPENDED CEILING IS DEFINED AS A PLENUM CHAMBER SPACE AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2004...

15002 SCOPE OF WORK

- A. THE BIDDING OF THIS WORK WILL COMPLEMENT THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURER'S MAY BE OFFERED ONLY AS AN ALTERNATIVE TO THE SPECIFIED MATERIALS AND EQUIPMENT, WITH ARCHITECT/ENGINEER APPROVAL.

15075 MECHANICAL IDENTIFICATION

- A. ALL EQUIPMENT INCLUDING: AIR HANDLING UNITS (AHU), MAKE-UP AIR UNITS (MAU), ROOFTOP UNITS (RTU), AND FANS (EF) SHALL BE IDENTIFIED. B. USE LAMINATE ENGRAVED PLATES, BLACK GROUND WITH WHITE LETTERING USING SHEET METAL SCREWS.

15082 PIPING INSULATION

- A. COLD WATER: NONE
B. HOT WATER: 1" FIBERGLASS WITH ALL SERVICE JACKET
C. REFRIGERANT SUCTION: 3/4" ARMAFLEX
D. CONDENSATE: 1/2" ARMAFLEX

15086 DUCT INSULATION

- A. ALUMINUM FOIL FACED, 2" THICK FIBERGLASS DUCT WRAP ON ALL SUPPLY, RETURN, OUTDOOR AIR INTAKE (OA) FROM THE CONNECTION AT THE MECHANICAL EQUIPMENT TO THE FLEXIBLE DUCT CONNECTION AT THE AIR DEVICE (ABOVE THE CEILING). B. 2" RIGID INSULATION ON ALL EXPOSED DUCTWORK, UNLESS NOTED OTHERWISE.

15145 PLUMBING PIPING

- A. SANITARY PIPING BELOW GRADE:
1. CAST IRON, ASTM A74, SERVICE WEIGHT, HUB & SPIGOT WITH COMPRESSION TYPICAL NEOPRENE GASKETS
2. PVC, SCHEDULE 40, DRAIN WASTE AND VENT (DWV), WITH SOLVENT JOINTS

15146 PLUMBING SPECIALTIES

- A. FLOOR DRAINS, ROOF DRAINS AS SCHEDULED ON PLUMBING DRAWINGS. B. WALL HYDRANTS/HOSE BIBBS AS SCHEDULED ON PLUMBING DRAWINGS. C. WATER HAMMER ARRESTER EQUAL TO PDI; PROVIDE PDI'S AT EACH TOILET BLOCK WHETHER SHOWN ON DOMESTIC WATER RISERS ON NOT.

SPECIFICATIONS

15186 REFRIGERANT PIPING

- A. PIPE: COPPER TYPE L, ACR PIPE
B. CONNECTIONS: JOIN PIPING USING SILFLOSS FLUXLESS SOLDER UNDER NITROGEN PURGE. ENGINEER RESERVES THE RIGHT TO ASK THAT AT LEAST ON SOLDERED JOINT BE CUT OPEN FOR INSPECTION TO INSURE NO BLACK SCALE IS AT THE INTERIOR OF THE PIPING.

15410 PLUMBING FIXTURES

- A. PROVIDE PLUMBING FIXTURES AS SCHEDULED ON PLUMBING DRAWINGS. B. PROVIDE ALL CARRIERS FOR FIXTURES AS REQUIRED. C. PROVIDE ALL BLOCKING AS REQUIRED FOR ANY EQUIPMENT AS REQUIRED.

15430 PLUMBING EQUIPMENT

- A. PROVIDE PLUMBING EQUIPMENT SUCH AS WATER HEATERS, ELECTRIC WATER COOLERS, ETC. AS SCHEDULED ON PLUMBING SHEETS.

15720 AIR HANDLING EQUIPMENT

- A. PROVIDE AIR HANDLING UNITS AS MANUFACTURED BY AON, CARRIER, TRANE, YORK. McQUAY UNITS NOT APPROVED AT THIS TIME. B. PROVIDE AIR HANDLING UNITS WITH CAPACITY AS SCHEDULED ON MECHANICAL DRAWINGS. C. PROVIDE AIR FOIL, SUPPLY FAN, COOLING COIL SECTION WITH DRAIN PAN, 2" PRE-FILTERS AND 24" BAG FILTERS (85%), MIXING SECTION FOR OUTDOOR AIR (OA) AND RETURN AIR (RA).

15810 DUCTWORK

- A. LOW PRESSURE DUCTWORK SHALL BE GALVANIZED STEEL PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 1" WATER GAUGE (W.G.) SIZE DUCTWORK FOR 0.08" SP/100 FOOT OF DUCT REINFORCEMENT, SEAL CLASS B, REINFORCEMENT JOINT, CLOSURES, AND SEAMS AS REQUIRED BY SMACNA. MEET OR EXCEED SMACNA SHEET METAL THICKNESS. 1. FABRICATED (STANDING S AND DRIVE CLEATS) AND SUPPORTED AS PER SMACNA. 2. USED IN CONSTANT VOLUME SYSTEMS, DOWNSTREAM FROM VAV'S AND FPB'S ONLY (U.N.O.)

15820 DUCT ACCESSORIES

- A. PROVIDE AIR TURNING DEVICES IN ALL SQUARE ELBOWS WITH SHORT DIMENSIONS. B. PROVIDE DUCT ACCESS DOORS FOR FIRE DAMPERS FABRICATED AS PER SMACNA STANDARDS. C. PROVIDE FIRE DAMPERS, DYNAMIC CURTAIN TYPE OF GALVANIZED STEEL AS SCHEDULED ON MECHANICAL DRAWINGS.

15835 POWER VENTILATORS

- A. PROVIDE FANS WITH CAPACITY AS SCHEDULED ON MECHANICAL DRAWINGS. ACCEPTABLE MANUFACTURER'S ARE: ACEME, COOK, GREENHECK, TWIN CITIES. PENN VENTILATORS ARE NOT APPROVED. B. ALL CENTRIFUGAL ROOF EXHAUST FANS SHALL BE COMPLETE WITH BIRDSCREEN, BACK DRAFT DAMPER, DISCONNECT SWITCH AND ROOF CURB.

15850 DIFFUSERS, REGISTERS, AND GRILLES

- A. DIFFUSERS, REGISTERS, AND GRILLES BY METAL-AIRE, PRICE, OR TITUS. B. ALL CEILING DIFFUSERS SHALL BE STEEL LOUVERED FACE, UNLESS NOTED OTHERWISE. C. ALL DIFFUSERS SHALL BE 4-WAY, UNLESS NOTED OTHERWISE.

15950 TEST AND BALANCE

- A. TEST AND BALANCE CONTRACTOR SHALL REVIEW ENGINEERING DRAWINGS AND JOB SITE PRIOR TO CEILING CLOSE UP. EACH ROOM RETURN AIR SHALL BE EXAMINED FOR A BALANCED PLENUM RETURN SYSTEM. (I.E. A CLEAR RETURN AIR PATH SHALL HAVE A VELOCITY NO GREATER THAN 400 FEET PER MINUTE (FPM) ACROSS THE RETURN AIR PATH).

15952 CONTROL WIRING

- A. MECHANICAL CONTRACTOR SHALL PROVIDE ALL 24 VOLT CONTROL WIRING. B. ALL THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR WHETHER THEY ARE LOW VOLTAGE OR LINE VOLTAGE. C. ALL 120 VOLT INTERLOCK WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

DO NOT MEASURE DRAWINGS NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

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Issue PROGRESS SET 02/24/2009

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CNN 8696-01

RESTORATION OF BREWSTER HOSPITAL Jacksonville, Florida

MECHANICAL SPECIFICATIONS

MECHANICAL ENGINEER DARYL A. BRYAN, PE FLORIDA P.E. NO. 65272

Drawn by: DAB Job: 00141-0108 Sheet

M2

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### AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	AREA SERVED	FAN		COOLING				HEATING		ELECTRICAL				WEIGHT (LBS)	SIZE WxLxH (INCHES)					
				TOTAL AIR (CFM)	OUTDOOR AIR (CFM)	ENT. AIR (°F)	LVG. AIR (°F)	SENSIBLE (MBH)	TOTAL (MBH)	TOTAL (KW)	VOLT	Ø	HZ	MCA	MOCP							
AHU-1	CARRIER	40RMQ008--B6	2nd FLOOR	3,000	460	1.2	2.4	76.8	65.0	57.0	56.0	53.0	97.7	11.3	93.0	208	3	60	45.6	50	440	28 5/8" x 49" x 74 1/2"
AHU-2	CARRIER	FC4DNF042	1st FLOOR	1,400	210	0.5	1/2	76.8	65.0	57.0	56.0	23.87	44.18	7.5	35.2	208	1	60	53.8	60	150	21 1/2" x 22 1/2" x 49 1/2"
AHU-3	CARRIER	FC4DNF042	1st FLOOR	1,400	210	0.5	1/2	76.8	65.0	57.0	56.0	23.87	44.18	7.5	35.2	208	1	60	53.8	60	150	21 1/2" x 22 1/2" x 49 1/2"

REMARKS:  
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT  
2. PROVIDE THERMOSTATIC EXPANSION VALVE (TXV)  
3. MCA & MOCP AS LISTED INCLUDE HEATER & MOTOR  
4. PROVIDE CONDENSATE DRAIN TRAP AND SUB-BASE (AHU-1)

REMARKS:  
5. PROVIDE ELECTRIC HEAT, CARRIER #CAELHEAT007A00 (AHU-1)  
6. PROVIDE ELECTRIC HEAT MKFCEH0901N10 (AHU-2 & AHU-3)  
7. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR (ALL AHU'S)

### CONDENSING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	EER	COP	HPSF	ELECTRICAL				WEIGHT (LBS)	SIZE WxLxH (INCHES)	
						VOLT	Ø	HZ	MCA			
CU-1	CARRIER	38ARQ008---5	10.4	3.2	-	208	3	60	43.8	60	465	45 1/2" x 59 1/2" x 34 1/2"
CU-2	CARRIER	25HCA342A0050	14.0	-	8.4	208	3	60	18.0	30	265	35" x 35" x 39"
CU-3	CARRIER	25HCA342A0050	14.0	-	8.4	208	3	60	18.0	30	265	35" x 35" x 39"

REMARKS:  
1. FACTORY MOUNTED DISCONNECT SWITCH ON CU-1.  
2. FACTORY MOUNTED CONVENIENCE OUTLET ON CU-1.  
3. VALUES FOR MCA & MOCP ON CU-1 INCLUDE CONVENIENCE OUTLET.  
4. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR FOR CU-2 & CU-3.

### AIR DEVICE SCHEDULE

INDICATES S=SUPPLY R=RETURN E=EXHAUST T=TRANSFER  
INDICATES AIR QUANTITY  
INDICATES DEVICE TYPE  
INDICATES NECK SIZE SQUARE OR ROUND  
INDICATES DIRECTIONS OF BLOW

TYPE	MANUFACTURER	MODEL	STYLE	INSTALLATION TYPE	COLOR	SIZES			PERFORMANCE			REMARKS	
						FACE	NECK	QTY.	AIRFLOW RANGE, CFM	NECK VEL. RANGE, FPM	NC RANGE		THROW RANGE AT 50 FPM
A	PRICE	610D	LOUVERED FACE	SURFACE	WHITE	6x6	6"ø	-	35	< 300	-	6	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x4	-	-	50	< 300	-	6	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x6	6"ø	-	100	< 300	-	8	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x6	8"ø	-	120	325	-	8	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x6	8"ø	-	140 - 160	375 - 425	-	11	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x6	8"ø	-	180	475	-	12	1, 2, 3
B	PRICE	520D	LOUVERED FACE	SURFACE	WHITE	12x6	8"ø	-	200 - 225	525 - 575	-	13	1, 2, 3
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	12x4	-	-	50	< 200	-	-	1, 2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	12x6	8"ø	-	100 - 120	200	-	-	1, 2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	12x8	8"ø	-	200 - 225	325 - 350	-	-	1, 2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	14x12	10"ø	-	280 - 325	250 - 300	-	-	1, 2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	14x20	10"ø	-	360	300 - 325	-	-	1, 2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	14x20	12"ø	-	670	625	34	-	2
C	PRICE	535D	LOUVERED FACE	SURFACE	WHITE	16x16	-	-	475	300	-	-	1, 2
D	TUTTLE & BAILEY	150	LOUVERED FACE	FLOOR	TBD	12x8	10"ø	-	350	400	-	7	1, 4
E	TUTTLE & BAILEY	T85D	LOUVERED FACE	FLOOR	TBD	14x12	10"ø	-	350	400 - 475	18	-	4

REMARKS:  
1. BLANKS (-) INDICATE AN NC LEVEL BELOW 15  
2. PROVIDE PLASTER FRAME FOR SURFACE MOUNTED DEVICES

REMARKS:  
3. REGISTER SHALL HAVE 45° BLADES  
4. COLOR TO BE DETERMINED BY ARCHITECT

### EXHAUST FAN SCHEDULE

TAG	MANUFACTURER	MODEL	ROOF/WALL OPENING	WEIGHT (LBS)	AIRFLOW DATA		MOTOR		ELECTRICAL DATA		REMARKS	
					CFM	S.P.	HP	RPM	VOLTS	Ø		HZ
EF-1	GREENHECK	SP-B50	-	15	50	0.125	38(W)	625	115	1	60	1 - 5
EF-2	GREENHECK	SP-B50	-	15	50	0.125	38(W)	625	115	1	60	1 - 5
EF-3	GREENHECK	SP-B50	-	15	50	0.125	38(W)	625	115	1	60	1 - 5
EF-4	GREENHECK	SP-B50	-	15	50	0.125	38(W)	625	115	1	60	1 - 5

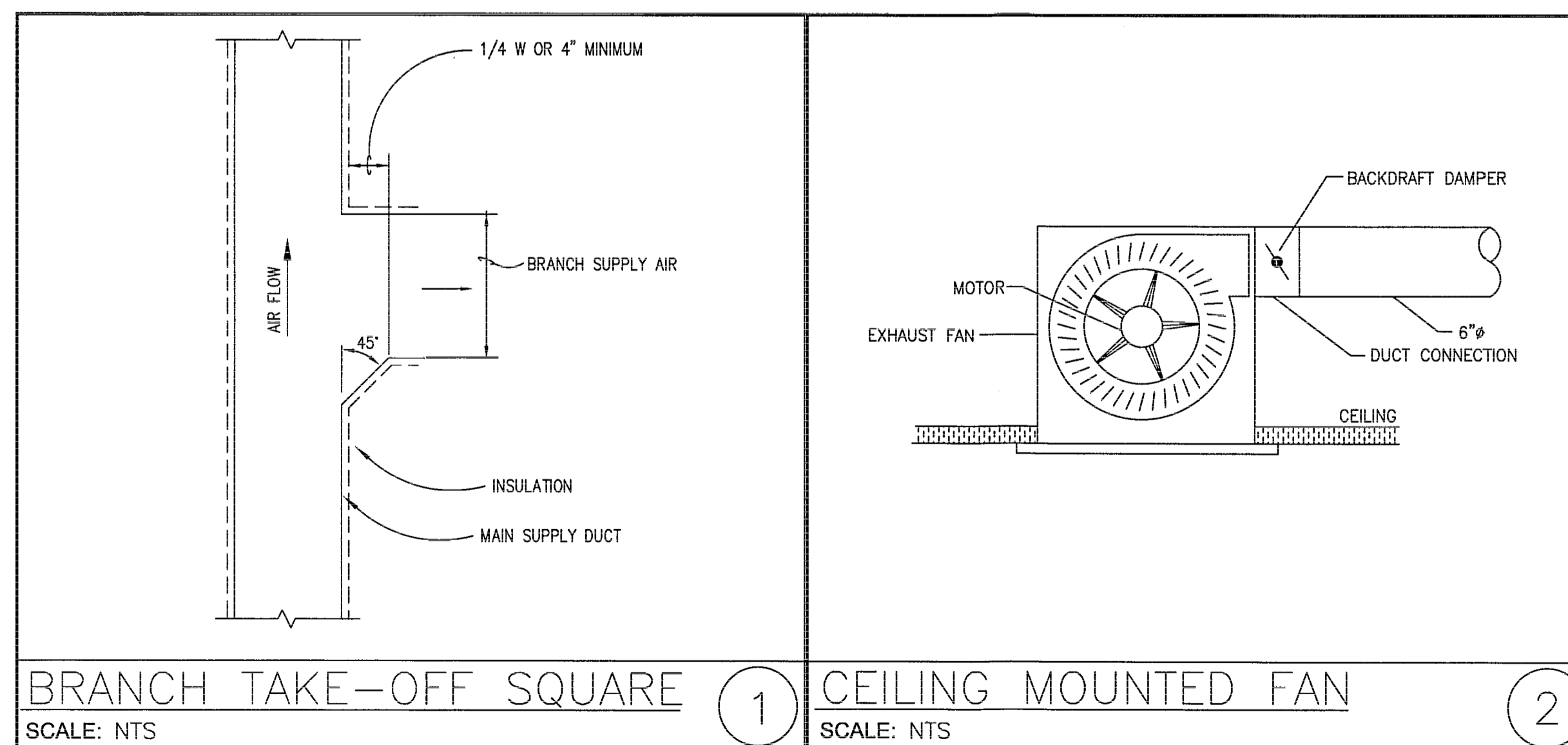
REMARKS:  
1. INTERLOCK WITH LIGHT SWITCH  
2. ISOLATION KIT  
3. MOTOR w/ THERMAL OVERLOAD

REMARKS:  
4. UL LISTED  
5. DUAL FLUORESCENT LIGHT BULBS (INCLUDED)  
13 WATTS PER LIGHT BULB

### LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	WIDTH (IN.)	HEIGHT (IN.)	FREE AREA (SQ. FT.)	AIRFLOW DATA			REMARKS
							VOLUME (CFM)	VELOCITY (FPM)	S.P. (IN. W.C.)	
L-1	GREENHECK	EHH-501	-	24	12	0.6	460	769	0.085	1
L-2	GREENHECK	EHH-501	-	12	12	0.2	210	1050	0.09	1

REMARKS:  
1. INTERNALLY MOUNTED INSECT SCREEN



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RESTORATION OF  
BREWSTER HOSPITAL  
Jacksonville, Florida

MECHANICAL SCHEDULES  
AND DETAILS

*Daryl A. Bryan*  
01-28-09

MECHANICAL ENGINEER  
DARYL A. BRYAN, PE  
FLORIDA PE NO. 65272

Drawn by: DAB  
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**M3**  
Sht. 3 of 9 Shts.

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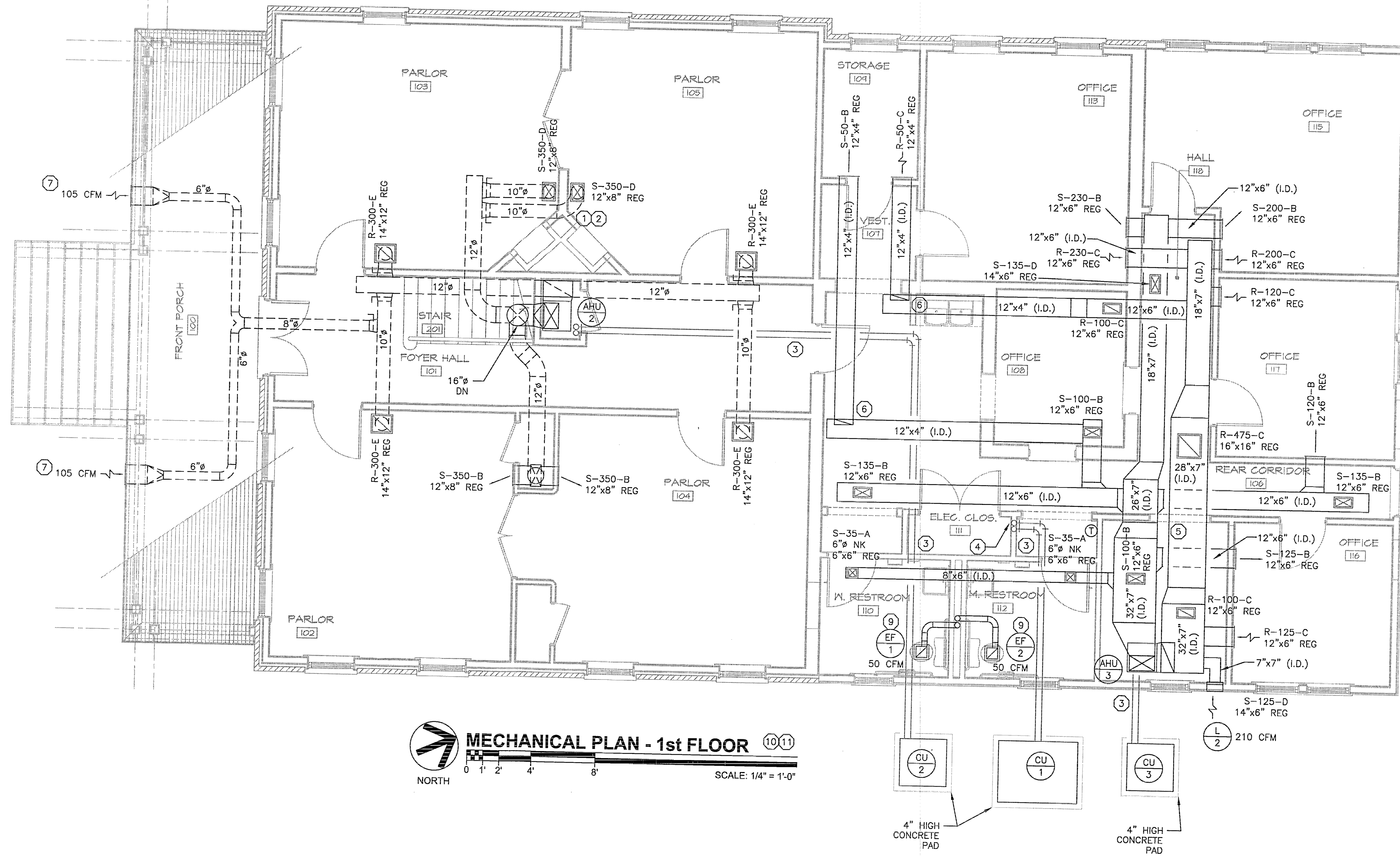
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KEY NOTES

- 1 ALL SUPPLY AND RETURN AIR DUCTWORK THAT IS LOCATED UNDER BUILDING FLOOR (IN CRAWL SPACE) SHALL BE GALVANIZED SHEET METAL DUCTWORK. UNDERFLOOR DUCTWORK SHOWN AS DASHED.
- 2 RETURN DUCTWORK MOUNTED TIGHT TO UNDERSIDE OF FLOOR JOISTS. TOP OF SUPPLY DUCTWORK MOUNTED 14" LOWER THAN TOP OF RETURN DUCTWORK.
- 3 REFRIGERANT PIPING FROM CONDENSING UNITS (CU-1, CU-2, CU-3) ROUTED UNDER FLOOR JOISTS (IN CRAWL SPACE).
- 4 REFRIGERANT PIPING UP TO SECOND FLOOR MECHANICAL CLOSET (ROOM 209) TO AIR HANDLING UNIT (AHU-1).
- 5 RETURN DUCTWORK MOUNTED TIGHT TO UNDERSIDE OF FLOOR JOISTS. TOP OF SUPPLY DUCTWORK MOUNTED 9" LOWER THAN TOP OF RETURN DUCTWORK.
- 6 UP INTO TRUSS SPACE.
- 7 MECHANICAL CONTRACTOR SHALL PROVIDE INSECT SCREEN ON FRESH AIR INTAKES.
- 8 NOT USED.
- 9 EXHAUST FAN/LIGHT COMBINATION.
- 10 MECHANICAL CONTRACTOR SHALL SEAL ALL DUCT JOINTS AIR TIGHT USING VERSA-GRIP 181 BY HARDCAST OR APPROVED EQUAL.
- 11 MECHANICAL CONTRACTOR SHALL WEATHERPROOF DUCTWORK IN CRAWL SPACE.



**MECHANICAL PLAN - 1st FLOOR** (101)  
 NORTH  
 SCALE: 1/4" = 1'-0"

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RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

MECHANICAL PLAN -  
 1st FLOOR

*Draft by*  
 01-28-07  
 MECHANICAL ENGINEER  
 DARYL A. BRYAN, PE  
 FLORIDA PE NO. 65272

Drawn by: DAB  
 Job: 00141-0108  
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M4  
 Sht. 4 of 9 Shts.

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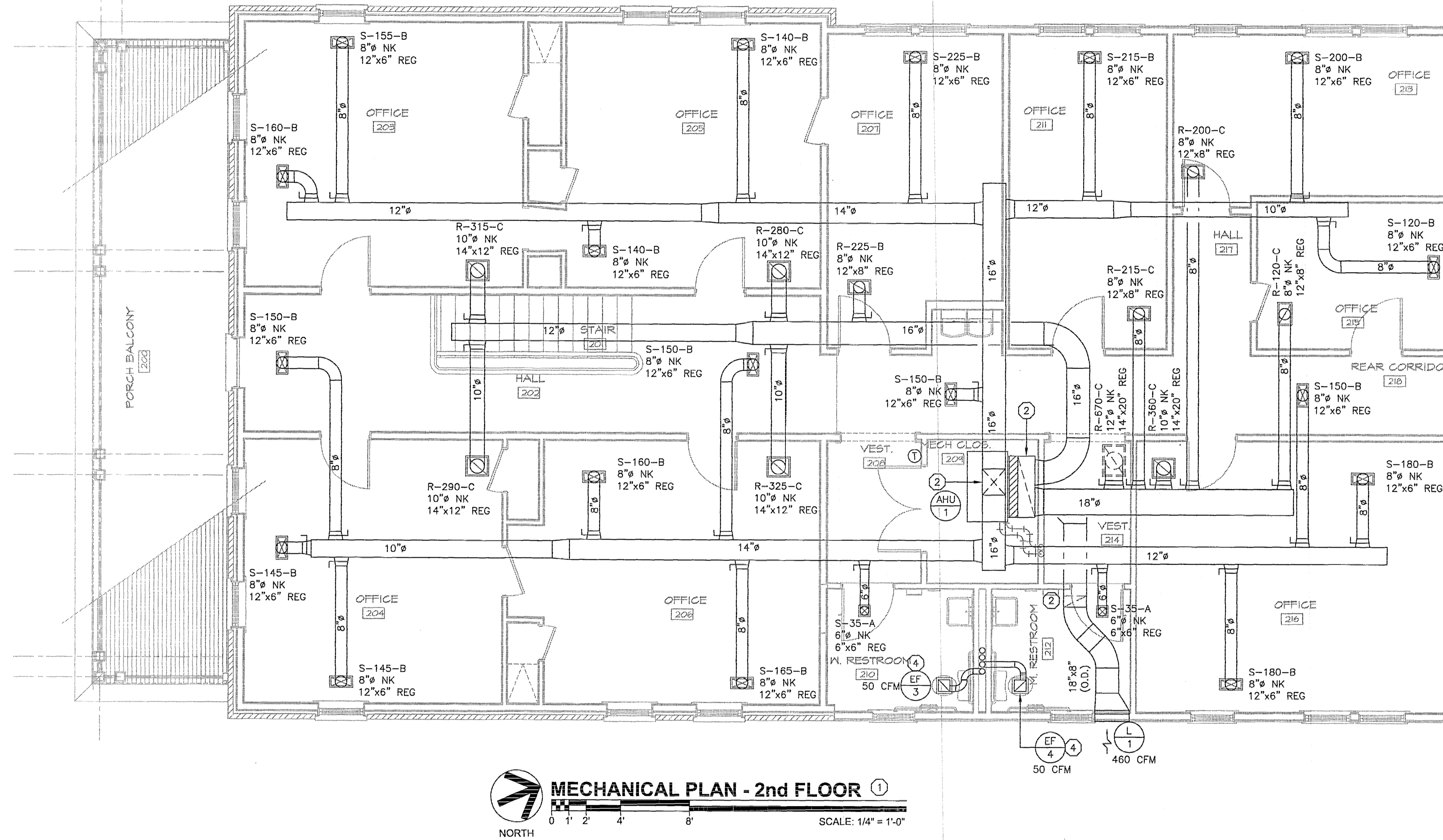
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 PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

**KEY NOTES**

- 1 ALL SUPPLY AND RETURN AIR DUCTWORK THAT SERVES THE 2nd FLOOR IS LOCATED IN THE ATTIC SPACE. ALL DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1/2" THICK, FIBERGLASS DUCT WRAP.
- 2 UP INTO ATTIC SPACE
- 3 OUTSIDE AIR INTAKE (O.A.I.) DUCTWORK ROUTED IN CEILING CAVITY.
- 4 EXHAUST FAN/LIGHT COMBINATION



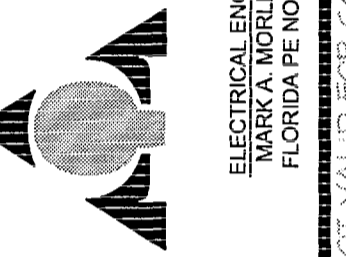
**MECHANICAL PLAN - 2nd FLOOR ①**  
 NORTH  
 SCALE: 1/4" = 1'-0"

**JAYCOX**  
 REINET

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Issue  
 PROGRESS SET  
 02/24/2008

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**MECHANICAL ENGINEER**  
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**CNN 8696-01**

**RESTORATION OF  
 BREWSTER HOSPITAL**  
 Jacksonville, Florida

**MECHANICAL PLAN  
 2nd FLOOR**

*Daryl A. Bryan*  
 01-28-09

**MECHANICAL ENGINEER**  
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Drawn by: DAB  
 Job: 00141-0108  
 Sheet

**M5**  
 Sht. 5 of 9 Shts.

UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER, THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID FOR CONSTRUCTION.

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

- 1.01 DESCRIPTION  
A. THE WORK INCLUDES THE PROVIDING OF ALL LABOR, MATERIALS, AND SERVICES NECESSARY TO INSTALL THE INDICATED SYSTEMS. COMPLETE WITH HANGERS, SUPPORTS, EQUIPMENT AND CONNECTIONS REQUIRED TO ANY FIXTURE OR EQUIPMENT INDICATED OR SPECIFIED.  
B. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:  
1. SANITARY WASTE AND VENT PIPING SYSTEMS.  
2. DOMESTIC WATER PIPING SYSTEMS.
- 1.02 - ALL WORK  
A. SHALL BE PERFORMED BY MECHANICS SKILLED IN THE PARTICULAR CLASS OF WORK AND ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE WORK SHALL BE COORDINATED WITH OTHER TRADES AND RESPONSIBILITIES ESTABLISHED SO THAT THE WORK SHALL BE COMPLETED WITHOUT DELAYS OR INTERFERENCE WITH SCHEDULES.
- 1.03 - CUTTING AND PATCHING  
A. WHERE REQUIRED, THE PLUMBING CONTRACTOR SHALL DO TEH CUTTING AND PATCHING USING WORKERS WHO ARE SKILLED IN THE TRADE INVOLVED. THE COMPLETED WORK SHALL PRESENT A FINISHED WORKMANLIKE APPEARANCE.
- 1.04 - PIPING AND DRAWINGS  
A. THE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF THE WORK. THE LOCATION OF ALL PIPING SHALL BE COORDINATED TO DETERMINE THAT IT CLEARS ALL OPENINGS AND STRUCTURAL MEMBERS, THAT PIPING INDICATED AS CONCEALED CAN BE PROPERLY CONCEALED IN WALLS OR PARTITIONS OF FINISHED ROOMS, AND THAT IT DOES NOT INTERFERE WITH LIGHTS OR EQUIPMENT HAVING FIXED LOCATIONS. CONCEAL ALL PIPING EXCEPT WHERE NOTED OTHERWISE.
- 1.05 - OPENINGS IN EXISTING CONCRETE CONSTRUCTION  
A. SHALL BE CORE DRILLED OR CUT WITH MASONRY SAW. PNEUMATIC TOOLS WILL NOT BE PERMITTED. THE INTEGRITY OF THE FIRE RATING OF WALLS, CEILINGS AND FLOORS SHALL MEET LIFE SAFETY AND LOCAL CODES.
- 1.06 - EXCAVATION AND BACKFILL  
A. IN ACCORDANCE WITH CIVIL REQUIREMENTS.
- 1.07 - TRAPS  
A. EACH FIXTURE, EQUIPMENT DRAIN OR FLOOR DRAIN SHALL BE SEPARATELY TRAPPED, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 1.08 - UNIONS  
A. INSTALL ON ONE SIDE OF EACH VALVE OR CONNECTION TO EQUIPMENT.
- 1.09 - SHOP DRAWINGS  
A. SEVEN (7) COPIES OF SHOP DRAWINGS OF EACH ITEM LISTED IN THE "EQUIPMENT SCHEDULES" OR ELSEWHERE ON THE DRAWINGS AND IN THE SPECIFICATIONS. (THESE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND APPROVED BY THE ARCHITECT BEFORE THE PLUMBING CONTRACTOR MAY PURCHASE THE EQUIPMENT OR MATERIALS). TWO (2) SETS WILL BE RETAINED BY THE ARCHITECT.  
B. SHOP DRAWINGS SHALL BE SUBMITTED WITH ALL EQUIPMENT ITEMS COMPLETE AT ONE TIME. SHOP DRAWINGS SHALL BE PRESENTED IN BOOK FORM IN A HARDBACKED BINDER WITH HEAVY PAPER DIVIDERS FOR EACH PARAGRAPH OF THE SPECIFICATION DELINEATING AN ITEM OR ITEMS OF EQUIPMENT. DIVIDERS SHALL BE PROVIDED WITH SUBSTANTIAL STAGGERED INDEX TABS, WITH EACH TAB NUMBERED WITH TEH SPECIFICATION PARAGRAPH NUMBER FOR THE INCLUDED ITEM(S) OF EQUIPMENT. IN ADDITION, AN INDEX LISTING EACH TAB DIVISION WITH EQUIPMENT COVERED SHALL BE PROVIDED AT THE FRONT OF THE SUBMITTAL BOOK. ITEMS PRESENTED SINGLY FOR APPROVAL WILL NOT BE ACCEPTABLE.  
C. COORDINATE THE LOCATION OF FLOOR DRAINS, PIPING AND OTHER PERTINENT ITEMS WITH THE WORK OF OTHER TRADES. INSTALLATION OF THESE ITEMS SHALL BE MADE AFTER RECEIPT OF AND IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
- 1.10 - GUARANTEE  
A. ALL EQUIPMENT, MATERIAL, ACCESSORIES AND INSTALLATION SHALL CARRY A GUARANTEE AGAINST DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. EACH SYSTEM AS A WHOLE, AND IN ALL ITS PARTS, SHALL BE GUARANTEED TO FUNCTION CORRECTLY UP TO THE SPECIFIED CAPACITY. SHOULD A SYSTEM, OR ANY PART THEREOF, FAILS TO MEET THE PERFORMANCE REQUIREMENTS, NECESSARY REPAIRS, ALTERATIONS OR REPAIRS SHALL BE MADE TO BRING PERFORMANCE UP TO SPECIFIED REQUIREMENTS. BUILDING CONSTRUCTION FINISHES DAMAGED OR MARRED SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. ALL OF THE ABOVE DESCRIBED SHALL BE DONE WITHOUT COST TO THE OWNER.
- PART 2 - PRODUCTS
- 2.01 - GENERAL  
A. ALL MATERIALS SHALL BE NEW AND FREE FROM ALL DEFECTS. THESE SPECIFICATIONS LIST ALL OF THE ACCEPTABLE MATERIALS FOR A GIVEN SERVICE, ONE OF WHICH SHALL BE USED UNLESS OTHERWISE SPECIFICALLY NOTED.  
B. THE QUALITY AND WEIGHT OF MATERIALS FURNISHED AND INSTALLED SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), LIFE SAFETY CODE AND THE LOCAL PLUMBING CODE.
- 2.02 - PIPE AND FITTINGS  
A. GENERAL: ALL PIPING SHALL BE RUN STRAIGHT, PLUMB AND PROPERLY GRADED IN DIRECTION INDICATED ON DRAWINGS. CUT PIPE SHALL BE SQUARELY CUT AND PROPERLY REAMED TO REMOVE ALL CUTTINGS AND BURRS BEFORE MAKING UP THE JOINTS. FITTINGS AND NIPPLES SHALL BE OF THE SAME MATERIALS AS THE PIPE.  
B. CPVC SCHEDULE 80 PIPE SHALL BE SUITABLE FOR USE AT MAXIMUM WORKING PRESSURE OF 150 PSI. ALL PIPE MUST MEET THE REQUIREMENTS OF ASTM D-1784, ASTM F-441, AND NSF STANDARD 41. SOCKET TYPE FITTINGS SHALL MEET ASTM F-439. THREADED FITTINGS SHALL MEET ASTM F-437 WITH THREADED BRASS INSERT BY IPT/HARRINGTON OR ACCEPTABLE ALTERNATIVE. SOLVENT WELD MATERIAL SHALL BE SOLVENT CEMENT MEETING THE REQUIREMENTS OF ASTM F-493.  
C. PLASTIC PIPE AND FITTINGS: PIPE SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. FITTINGS SHALL BE PVC CONFORMING TO ASTM D-2466. SOLVENT CEMENT SHALL CONFORM TO ASTM D-2564.
- 2.03 - VALVES  
A. GENERAL: VALVE NUMBERS ARE SPECIFIED TO ESTABLISH TYPE AND QUALITY. EQUIVALENT VALVES WILL BE CONSIDERED FOR APPROVAL.  
B. DOMESTIC WATER PIPING:  
1. GATE VALVES: 2" AND SMALLER - CRANE # 428 OR #438 AS APPLICABLE; 2½" IPS AND LARGER - CRANE #465-1/2 OR #461 AS APPLICABLE.  
2. CHECK VALVES: 2" IPS OR SMALLER - CRANE #37; 2½" OR LARGER, CRANE #373.  
3. HOSE BIBBS: CHICAGO FAUCET #387 WITH WAITS # 8A BACKFLOW PREVENTER. KEY OPERATED HANDLES.  
4. BALL VALVES: FULL PORT BALL VALVES WITH STAINLESS STEEL STEM AND BALL WITH TEFLON SEAT AND RINGS.
- 2.04 - CLEANOUTS  
A. WHERE INDICATED AND AT THE BASE OF ALL RISERS. ADDITIONAL CLEANOUTS AT THE CONTRACTORS OPTION FOR TEH CONVENIENCE OF TESTING AND ERECTION. CLEANOUTS INSTALLED IN FLOORS WITH THE ADJOINING ARCHITECTURAL FINISHING MATERIAL. CLEANOUTS LOCATED OUTSIDE THE BUILDING SHALL BE TWO-WAY TYPE. JOSAM MODEL NUMBERS ARE INDICATED BELOW. COMPARABLE MODEL NUMBERS BY WADE, J.R. SMITH, OR ZURN WILL BE CONSIDERED FOR APPROVAL.  
B. CLEANOUT PLUGS: JOSAM 58540-20  
C. CLEANOUT IN WALLS: JOSAM 58790-22  
D. CLEANOUT IN CONCRETE AND TERRAZZO FLOOR FINISHES: JOSAM 58460A-2
- 2.05 - PIPE HANGERS  
A. HANGERS SHALL BE OF CLEVIS TYPE, MSS SP-58, TYPE 1.
- 2.06 - WATER HAMMER ARRESTORS  
A. IN CONFORMANCE WITH PLUMBING AND DRAINAGE INSTITUTE # PDI-WH-301

PLUMBING SPECIFICATIONS

2.07 PLUMBING FIXTURES

- A. GENERAL: ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY". ALL ENAMELED IRON FIXTURES SHALL HAVE ACID RESISTING WHITE ENAMEL. ALL FIXTURES AND FITTING PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER. ESCUTCHEONS, HANDLES, ETC. ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN. ALL FIXTURES AND FITTINGS PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH CATALOG CUTS AND FULL DESCRIPTION. ALL EXPOSED METAL AND PIPING NOT OTHERWISE SPECIFIED SHALL BE POLISHED CHROMIUM ON BRASS OR BRONZE. ALL COLD WATER SUPPLY TO FIXTURES SHALL BE PROVIDED WITH STOPS OF THE LOOSE KEY TYPE.  
B. SEE DESIGN BASIS FOR FIXTURE SPECIFICATIONS. WHERE FIXTURE TYPES REFER TO THOSE MANUFACTURED BY ACORN, UNLESS OTHERWISE NOTED, THESE NUMBERS AER USED TO INDICATE TYPE AND QUALITY OF FIXTURES DESIRED. FIXTURES OF EQUAL QUALITY MANUFACTURED BY AMERICAN STANDARD, CRANE, ELJER, KOHLER, OR ZURN WILL BE CONSIDERED FOR APPROVAL. HANGER SUPPORTS AND CARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2.08 - THERMAL INSULATION  
A. GENERAL: NO INSULATION SHALL BE INSTALLED UNTIL THE PIPING SYSTEMS HAVE BEEN CHECKED AND FOUND FREE OF ALL LEAKS. SURFACES SHALL BE CLEAN AND DRY BEFORE ATTEMPTING TO APPLY INSULATION. INSULATION SHALL BE INSTALLED BY A PROFESSIONAL INSULATION CONTRACTOR WITH ADEQUATE EXPERIENCE AND ABILITY TO PERFORM THE WORK. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS SHALL BE ONE OF THE FOLLOWING:  
B. DOMESTIC WATER PIPING:  
1. MATERIAL: SHALL BE INSULATED WITH 1" THICK JOHNS-MANVILLE FLAME SAFE AF-T FIBERGLASS PIPE INSULATION.  
2. APPLICATION: PRIOR TO INSTALLING THE INSULATION, THE PRESSURE RELEASE PAPER SHALL BE REMOVED FROM THE JACKET LAPS. PIPE INSULATION SHALL BE SECURED IN PLACE BY APPLYING PRESSURE TO THE PRESSURE SENSITIVE CLOSURE SYSTEM. ELBOWS SHALL BE INSULATED WITH JOHNS-MANVILLE UNIFIT PVC FITTING COVERS. VALVES AND OTHER IRREGULAR SHAPED FITTINGS SHALL BE INSULATED WITH PIPE INSULATION SEGMENTS AND FINISHED WITH A SKIM COAT OF AIR DRYING JOHNS-MANVILLE 375 CEMENT AND WHITE GLASS FABRIC DIPPED IN FOSTER'S 30-60 COATING OR EQUAL.

PART 3 - EXECUTION

- 3.01 - SOIL, WAST, AND VENT PIPING  
A. BURIED PIPING: SOIL AND WASTE PIPE AND FITTINGS BELOW THE FLOOR SLAB AND TO THE BUILDING FIVE FOOT LINE SHALL BE OF SCHEDULE 40 PVC PLASTIC AND SHALL BE PROVIDED WITH A LOCATOR WIRE #12 GAGE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.  
B. ABOVE GRADE: SOIL, WASTE AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC.
- 3.02 - DOMESTIC WATER PIPING  
A. ALL PIPE AND FITTINGS SHALL BE SCHEDULE 80 CPVC.
- 3.03 - CLEANING AND PROTECTION OF PIPE  
A. BEFORE BEING PLACED IN POSITION, PIPE AND FITTINGS SHALL BE CLEANED CAREFULLY. ALL PIPE SHALL BE MAINTAINED IN A CLEAN CONDITION.
- 3.04 - PIPE IN TRENCHES  
A. SEWER AND WATER PIPING SHALL BE PLACED IN SEPARATE TRENCHES.  
B. WATER PIPING SHALL BE BURIED AT A DEPTH OF 0'-6" BELOW THE FROST LINE OR A MINIMUM OF 1'-0", WHICHEVER IS GREATER.
- 3.05 - INSTALLATION OF SCREW-JOINT PIPING (IF USED)  
A. ALL PIPING SHALL BE CUT ACCURATELY TO MEASUREMENTS ESTABLISHED BY THE CONTRACTOR AND SHALL BE WORKED INTO PLACE WITHOUT SPRINGING OR FORCING. PROPER PROVISION SHALL BE MADE FOR THE EXPANSION AND CONTRACTION OF ALL PIPE LINES. PIPE AND FITTINGS SHALL BE FREE FROM FINNS AND BURRS. SCREW JOINTS IN WATER PIPING SHALL BE MADE WITH A LUBRICANT APPLIED ON THE MALE THREADS ONLY. THREADS SHALL BE FULL CUT AND NOT MORE THAN THREE THREADS ON THE PIPE SHALL REMAIN EXPOSED. ALL FERROUS PIPE THREADS, AFTER BEING INSTALLED AND TESTED, SHALL BE GIVEN ONE COAT OF RED LEAD AND OIL PAINT. UNIONS AND UNION TYPE CONNECTIONS AND SHUT-OFF VALVES SHALL BE PROVIDED FOR ALL FIXTURES AND EQUIPMENT READY FOR DISCONNECTION. ON FERROUS PIPE 3" DIAMETER OR SMALLER, UNIONS SHALL BE 150 PSI STEAM WORKING PRESSURE MALLEABLE IRON GROUND JOINT TYPE. PIPE HUNG FROM CEILINGS SHALL BE SUPPORTED BY HEAVY, ADJUSTABLE HANGERS CONFORMING TO MSS SP-59. ALL HANGERS AND COLLARS SHALL BE OF SIZES SUITABLE FOR THE WEIGHT OF THE PIPE. ALL CHANGES IN SIZES OF PIPE SHALL BE MADE WITH REDUCING FITTINGS.
- 3.06 - WATER HAMMER ARRESTORS  
A. WATER HAMMER ARRESTORS SHALL BE PROVIDED INSTEAD OF SITE FABRICATED AIR CHAMBERS, AND SHALL BE SIZED AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3.07 - SANITARY SYSTEMS  
A. SANITARY SYSTEMS SHALL BE PROVIDED WHERE APPLICABLE WITH Y FITTINGS AND ¼ OR ½ BENDS OR COMBINATION Y AND ¼ BENDS. ALL FIXTURES NOT SPECIFIED TO BE PROVIDED WITH TRAPS AS INTEGRAL PARTS OF THEIR OUTFITS AND ALL DRAINS SHALL HAVE SEPARATE TRAPS WITH CLEANOUTS. WASTE LINES SHALL NOT BE LESS THAN 2 INCHES IN DIAMETER. ALL FIXTURES SHALL BE INDIVIDUALLY VENTED, OR SHALL BE CONNECTED TO A VENTED SOIL OR WASTE LINE. UNLESS INDICATED OTHERWISE, SANITARY PIPING SHALL FORM CIRCUIT OR LOOP VENTS WITH NO DEAD ENDS OR INVERTED SIPHONS. CIRCUIT OR LOOP VENT LINES SHALL BE CONNECTED AT A HEIGHT OF NOT LESS THAN 1'-0" ABOVE THE FIXTURES SERVED. HORIZONTAL VENTS SHALL SLOPE DOWN TO WASTE OR SOIL BRANCH OR STACK. HORIZONTAL SOIL AND WASTE PIPING, GENERALLY, SHALL BE GRADED ¼ INCH PER FOOT. VERTICAL STACKS SHALL BE EXTENDED FULL SIZE AS VENTS TO NOT LESS THAN 1'-0" ABOVE THE ROOF AND SHALL BE PLACED IN A POSITION BEFORE THE ROOFING IS APPLIED. WHERE PRACTICABLE, TWO OR MORE VENT LINES MAY BE CONNECTED AND EXTENDED AS ONE PIPE THROUGH THE ROOF. CLEANOUTS SHALL BE INSTALLED AT TEH FOOR OF EACH SOIL OR WASTE LINE, AT CHANGES IN DIRECTION IN THE LINES, AND WHERE INDICATED; HOWEVER, WITHIN THE BUILDINGS, THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL RUNS SHALL IN NO CASE EXCEED 50'-0". CLEANOUTS SHALL BE PIPE SIZE EXCEPT NO CLEANOUT SHALL EXCEED 6 INCHES IN DIAMETER. VENT FLASHING AT THE ROOF SHALL EXTEND NOT LESS THAN 0'-8" FROM THE VENT PIPE IN ALL DIRECTIONS. LEAD FLASHING SHALL BE TURNED DOWN INTO THE PIPES OR HUBS.
- 3.08 - WATER SYSTEMS  
A. WATER SYSTEMS SHALL BE INSTALLED WITH A FALL TOWARDS THE SHUT-OFF VALVE OR THE LOWEST FIXTURE. BRANCHES FROM COLD WATER LINES SHALL BE PROVIDED TO FIXTURES AND OUTLETS AS INDICATED.
- 3.09 - WATER VALVES  
A. WATER VALVES SHALL BE INSTALLED IN ACCESSIBLE PLACES AND SHALL BE LOCATED AS FOLLOWS:  
1. VALVE WITH HOSE CONNECTION ON THE BUILDING SIDE OF THE MAIN SHUT-OFF VALVE  
2. SHUT-OFF VALVE ON EACH SUPPLY TO EACH FIXTURE NOT PROVIDED WITH COMPRESSION STOP  
3. VALVES SHALL BE PROVIDED ON ALL BRANCHES SERVING MORE THAN ONE FIXTURE
- 3.10 - INSTALLATION OF FIXTURES  
A. CONNECTIONS BETWEEN WATER CLOSETS AND THE FLANGES ON SOIL PIPE SHALL BE MADE GAS TIGHT WITH ONE PIECE SPECIAL MOLDED GASKET. ALL BULK MATERIAL, INCLUDING PUTTY AND PLASTICS SHALL NOT BE USED. FLOOR DRAINS SHALL BE SECURED TO THE WATERPROOFING OR FLASHING IN A WATER TIGHT MANNER. EXACT ROUGH-IN LOCATIONS FOR FIXTURES AND FLOOR DRAINS SHALL BE DETERMINED FROM THE ARCHITECTURAL DRAWINGS.
- 3.11 - SUPPORTS AND FASTENINGS  
A. PLUMBING FIXTURES, TRIMMINGS, ACCESSORIES AND APPURTENANCES SHALL BE SECURED TO CONCRETE BY ¼" BRASS EXPANSION BOLTS NOT LESS THAN 4" LONG, AND TO GYPSUM WITH STEEL PLATES ½" THICK, 6" WIDE AND NOT LESS THAN 24" LONG AT THE BACK OF THE THROUGH BOLTS. EXPANSION BOLTS SHALL BE A LENGTH SUFFICIENT TO EXTEND AT LEAST 3" INTO SOLID CONCRETE. THROUGH BOLTS SHALL BE PROVIDED WITH PLATES OR WASHERS AT THE BACK AND SET SO THAT HEADS, NUTS AND WASHERS WILL BE CONCEALED BY THE WALL MATERIAL. EXPOSED HEADS OF BOLTS AND NUTS SHALL BE NICKEL-CHROMIUM PLATED HEZAGONS WITH ROUNDED TOPS. WHERE NECESSARY, NICKEL-CHROMIUM PLATED WASHERS SHALL BE PROVIDED.

PLUMBING SPECIFICATIONS

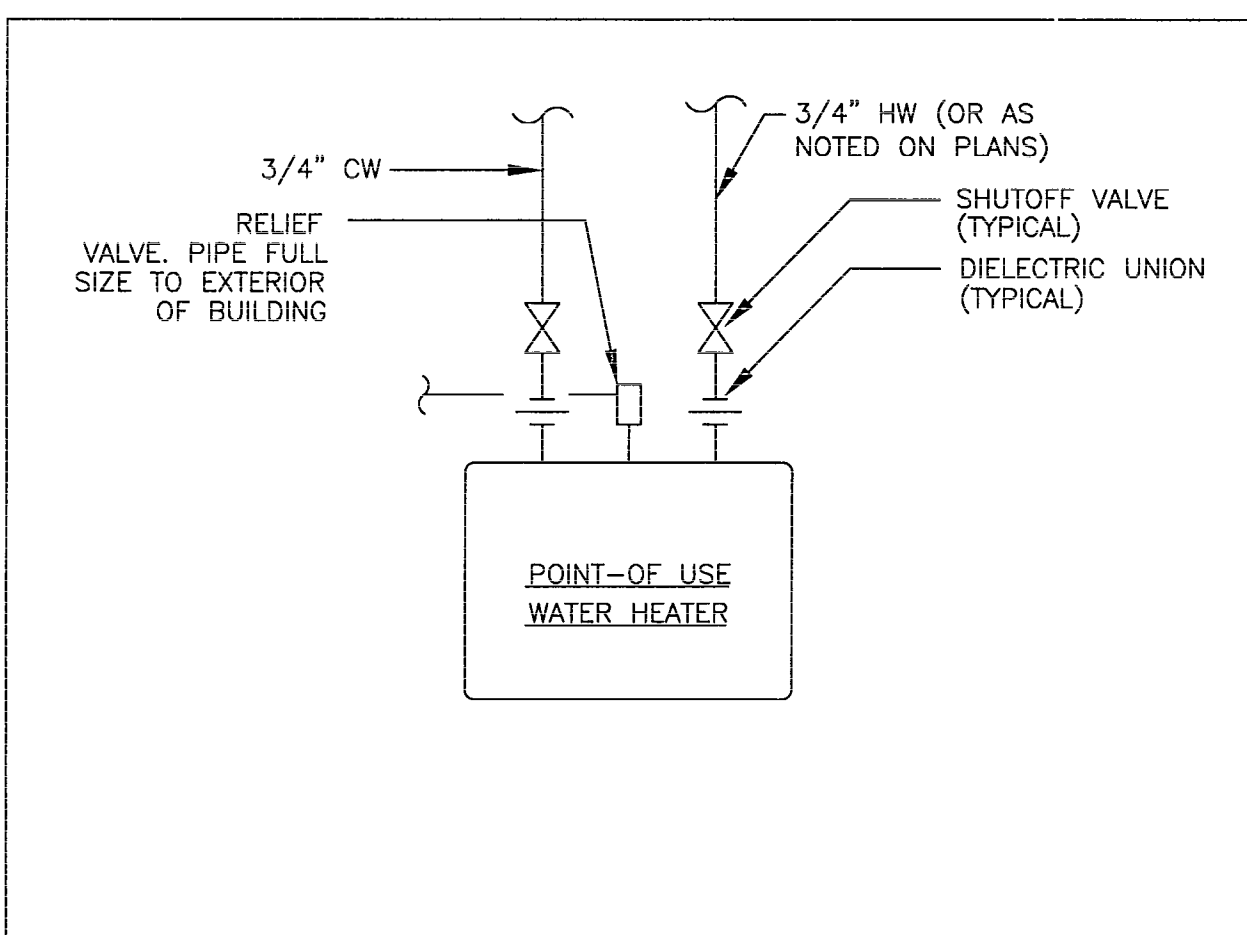
3.12 - PIPE SLEEVES

- A. PIPE SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH MASONRY OR CONCRETE WALLS, FLOORS, ROOFS, AND PARTITIONS. SLEEVES SHALL BE PLACED DURING CONSTRUCTION OF THE BUILDING AND AT NO TIME SHALL JACK HAMMERS BE USED. SLEEVES IN OUTSIDE WALLS BELOW AND ABOVE GRADE, OR IN FLOOR SLABS, SHALL BE ZINC-COATED SHEET STEEL. SPACE BETWEEN PIPE, TUBING OR INSULATION AND THE SLEEVE SHALL NOT BE LESS THAN ¼". SLEEVES SHALL BE HELD SECURELY IN PROPER POSITION AND LOCATION BEFORE AND DURING CONSTRUCTION. ALL SLEEVES SHALL BE OF SUFFICIENT LENGTH TO PASS THROUGH ENTIRE THICKNESS OF WALLS, PARTITIONS OR SLABS. SLEEVES IN FLOOR SLABS SHALL EXTEND 2" ABOVE FINISHED FLOOR. SPACE BETWEEN THE PIPE AND THE SLEEVE CONSTRUCTION SHALL BE PROVIDED WITH FLANGE AND CLAMPING RING. SLEEVES ARE NOT REQUIRED IN FLOOR SLABS LOCATED ON GRADE EXCEPT THAT COPPER PIPE SHALL NOT COME INTO CONCRETE.
- 3.13 - STERILIZATION  
A. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED AND CLEAN.  
B. ENSURE pH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC).  
C. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT THE SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.  
D. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM OF 15% OF OUTLETS.  
E. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.  
F. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25MG/L, REPEAT TREATMENT.  
G. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.  
H. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10% OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA C651.  
I. A TESTING FIRM COMPANY SPECIALIZING IN TESTING POTABLE WATER SYSTEMS SHALL BE APPROVED BY THE STATE.  
J. A CERTIFICATE SHALL BE SUBMITTED TO OWNER THAT CLEANLINESS OF WATER DISTRIBUTION MEETS OR EXCEEDS STATE HRS REQUIREMENTS.
- 3.14 - ANCHORING, GUIDING AND SUPPORTING OF PIPING  
A. ALL PIPING SHALL BE ANCHORED AND SUPPORTED IN A MANNER SUCH THAT EXPANSION AND CONTRACTING WILL TAKE PLACE IN THE DIRECTION DESIRED AND VIBRATION AND UNDU STRAINS ON EQUIPMENT WILL BE PREVENTED BY USE OF VIBRATION DAMPENERS. HANGERS USED FOR THE SUPPORT OF PIPING, 2" NOMINAL PIPE SIZE AND LARGER SHALL BE FABRICATED TO PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD. WALL BRACKETS SHALL BE USED WHERE PIPES ARE ADJACENT TO WALL OR OTHER VERTICAL SURFACES THAT MAY BE USED FOR SUPPORTS. SUPPORTS SHALL BE PROVIDED WITH A TYPE 40 PIPE COVERING PROTECTION SADDLE AT EACH SUPPORT IN ACCORDANCE WITH TABLE 4 OF SP-69. PIPE SUPPORTS SHALL BE SPACED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPES, THE MEDIUM IN THE PIPE, INSULATION, VALVES AND FITTINGS; SPACING OF SUPPORTS SHALL BESUCH AS TO PREVENT THE FORMING OF POCKETS. THE MAXIMUM HORIZONTAL SPACING FOR METAL PIPING BETWEEN PIPE SUPPORTS SHALL CONFORM TO TABLE 3 OF MSS SP-69, EXCEPT THAT CAST IRON SOIL PIPE SHALL HAVE A MAXIMUM SPACING BETWEEN HANGERS OF 5'-0". VERTICAL PIPING SHALL BE SUPPORTED BY BOLTED STEEL CLAMPS OR TYPE CONFORMING TO MSS SP-69. PIPE HANGERS SHALLBE ISOLATED FROM UNINSULATED METAL PIPE WITH NEOPRENE PADS SUCH THAT ORGAN MUSIC WILL NOT PERMIT OR CAUSE THE PIPE TO VIBRATE WITHIN THE SUPPORT.
- 3.15 - INSTRUCTION MANUALS  
A. FURNISH FOUR (4) COMPLETE COPIES OF INSTRUCTIONS EXPLAINING OPERATION AND MAINTENANCE AND REPLACEMENT PARTS LISTS FOR THE FAUCET TRIM, FLUSH VALVES, AND FIXTURES.
- 3.16 - SAFETY CODE  
A. ALL PIPING IN ACCORDANCE WITH ANSI A13.1981.
- 3.17 - AS-BUILT DRAWINGS  
A. PROVIDE A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS AT JOB COMPLETION. UPON REQUEST, ARCHITECT WILL PROVIDE THE CONTRACTOR WITH REPRODUCIBLE COPIES OF THE CONTRACT DRAWINGS FOR THE USE IN MAKING THESE "AS-BUILT" DRAWINGS.
- 3.18 - FIELD TESTS  
A. WATER SUPPLY PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF 100 PSI MINIMUM. PRESSURE SHALL BE MAINTAINED ON THE LINES FOR PERIOD OF TIME SUFFICIENT TO EXAMINE THE ENTIER SYSTEM BUT NO LESS THAN ONE (1) HOUR.  
B. SANITARY PIPING: BEFORE THE INSTALLATION OF ANY FIXTURES, THE VENTS OF THE SYSTEM SHALL BE CAPPED AND ALL LINES FILLED WITH WATER TO THE ROOF AND ALLOWED TO STAND UNTIL A THOROUGH INSPECTION HAS BEEN MADE. AFTER THE FIXTURES ARE SET, A SMOKE OR EQUIVALENT TEST SHALL BE MADE USING A SUITABLE APPARATUS.

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## PLUMBING FIXTURE SCHEDULE

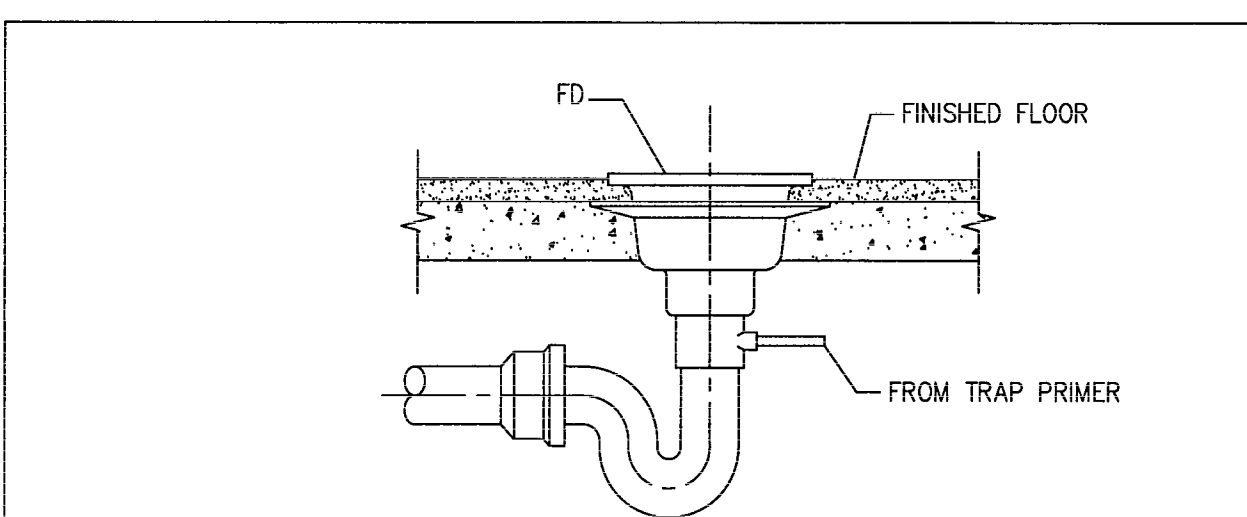
TAG	MANUFACTURER	MODEL	DESCRIPTION	PIPE SIZES					
				CW	HW	HWR	SAN	VENT	
CO	WADE	8550	CAST IRON CLEANOUT FERRULE w/ SPIGOT OUTLET AND COUNTERSUNK PLUG						
EWC-1	ELKAY	EZSB	ONE STATION WALL MOUNT WATER COOLER, BARRIER FREE 8.0 GALLONS PER HOUR, 56 POUNDS, 4.0 AMPS, 370 WATTS	3/4"	-	-	2"	2"	
FD-1	WADE	1104STD6,1	CAST IRON FLOOR DRAIN w/ FLANGE, INTEGRAL CLAMPING COLLAR, PLUGGED PLUGGED PRIMER TAP, ROUND NICKEL BRONZE STRAINER w/ VANDAL PROOF SCREWS	-	-	-	4"	2"	
HB-1	WADE	8600L.175	3/4" NON-FREEZE WALL HYDRANT, ANTI-SIPHON BACKFLOW PREVENTER, BRONZE CASTING AND NICKEL BRONZE BOX.	3/4"	-	-	-	-	
LAV-1	AMERICAN STANDARD	0124.024	WALL HUNG, ADA COMPLIANT LAVATORY, VITREOUS CHINA w/ WALL HANGERS	3/4"	3/4"	-	1 1/2"	2"	
	AMERICAN STANDARD	7502.170	TWO HANDLE 4" CENTERS LAVATORY FAUCET w/ GOOSENECK, WRIST BLADE HANDLES AND GRID DRAIN						
			1 1/2" P-TRAP, STANDARD STOP LAVATORY SUPPLY KIT						
WCO	WADE	8300SH	HINGED, NICKEL BRONZE SQUARE ACCESS COVER.	-	-	-	-	-	
WC-1	AMERICAN STANDARD	2359.012	COLONY RIGHT-HEIGHT, TWO PIECE TANK TYPE WATER CLOSET, VITREOUS CHINA, ADA COMPLIANT, ELONGATED BOWL, ELONGATED TOILET SEAT AND COVER, WAX RING, CLOSET BOLTS, STANDARD STOP CLOSET SUPPLY KIT	3/4"	-	-	4"	2"	
WH-1	ARISTON	GL4Ti	4 GALLON CAPACITY, POINT-OF-USE ELECTRIC WATER HEATER						
			1500 WATTS, 120-1-60; 12.5 AMPS; 6.8 GPH, RELIEF VALVE						



**POINT-OF USE HEATER**

SCALE: NTS

1



**FLR DRAIN w/TRAP PRIMER**

SCALE: NTS

2

DO NOT MEASURE DRAWINGS  
NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES  
PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

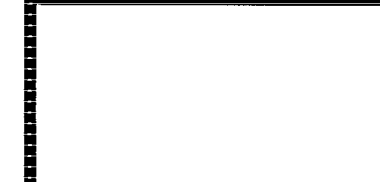
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**MECHANICAL ENGINEER**  
DARYL A. BRYAN, PE  
FLORIDA PE NO. 65272



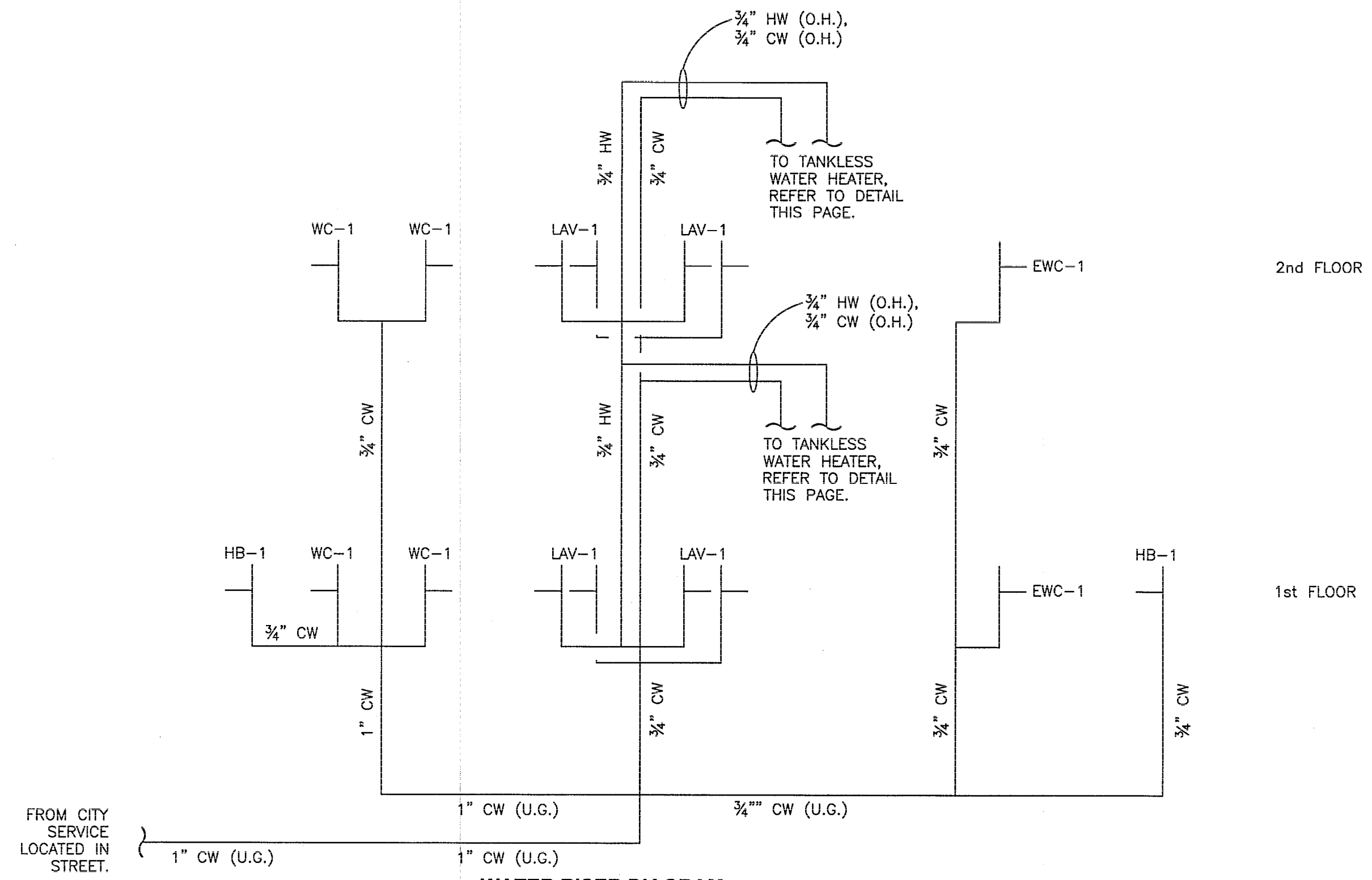
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**RESTORATION OF  
BREWSTER HOSPITAL**  
Jacksonville, Florida

**PLUMBING SCHEDULES  
AND RISERS**

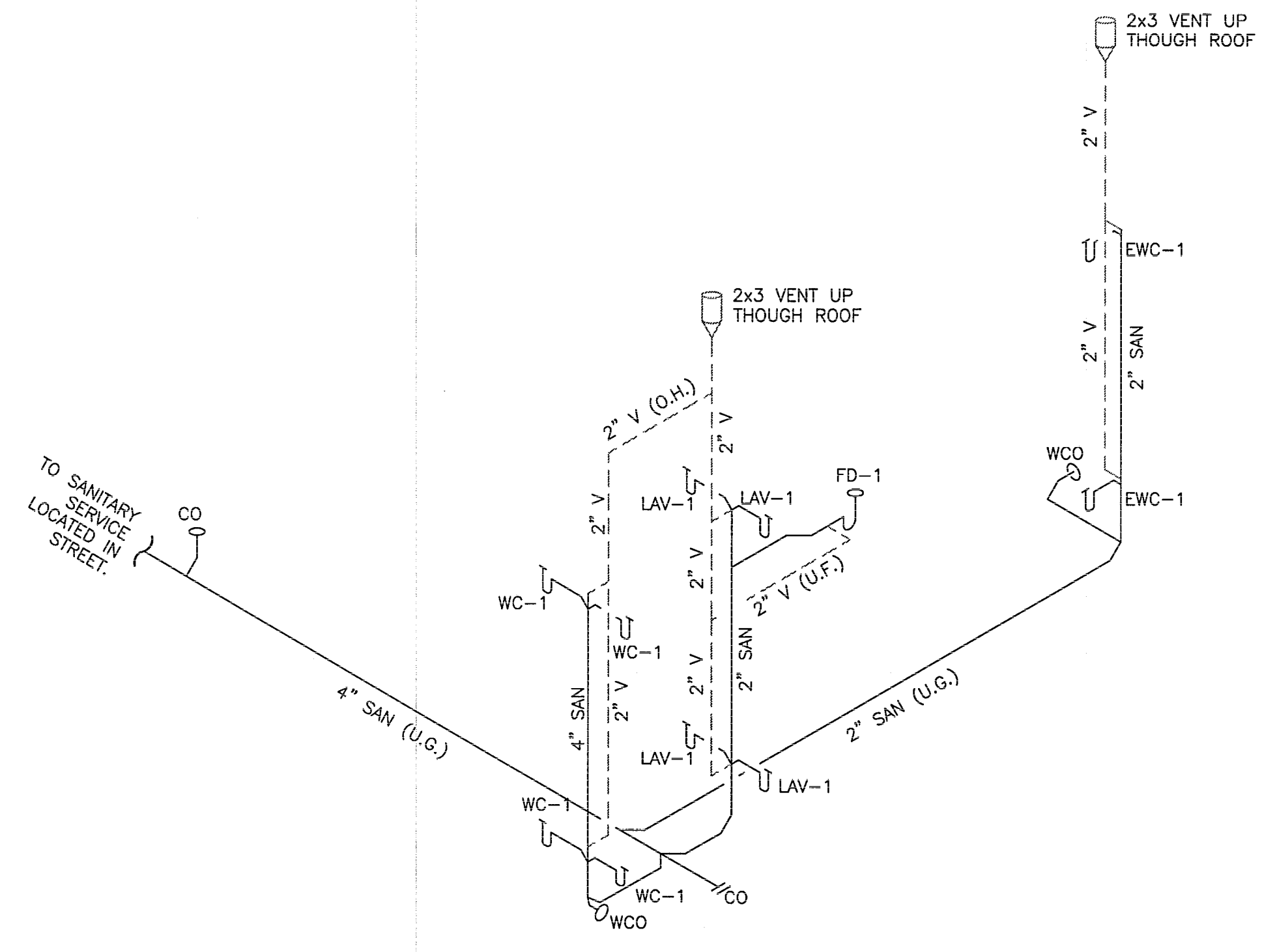
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Job: 00141-0108  
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**P3**  
Sht. 7 of 9 Shts.



**WATER RISER DIAGRAM**

SCALE: N.T.S.



**WASTE/VENT RISER DIAGRAM**

SCALE: N.T.S.

*Daryl A. Bryan*  
01-28-07

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 PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

**KEY NOTES**

- 1 PLUMBING CONTRACTOR SHALL CONNECT SANITARY SEWER PIPING TO EXISTING CITY SANITARY SEWER PIPING.
- 2 CLEANOUTS (CO-1) ARE LOCATED IN CRAWL SPACE.
- 3 ELECTRICAL WATER COOLER (EWC-1) IS A SINGLE STATION, ADA COMPLIANT WATER COOLER.

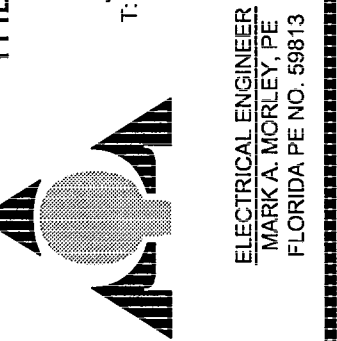
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RESTORATION OF  
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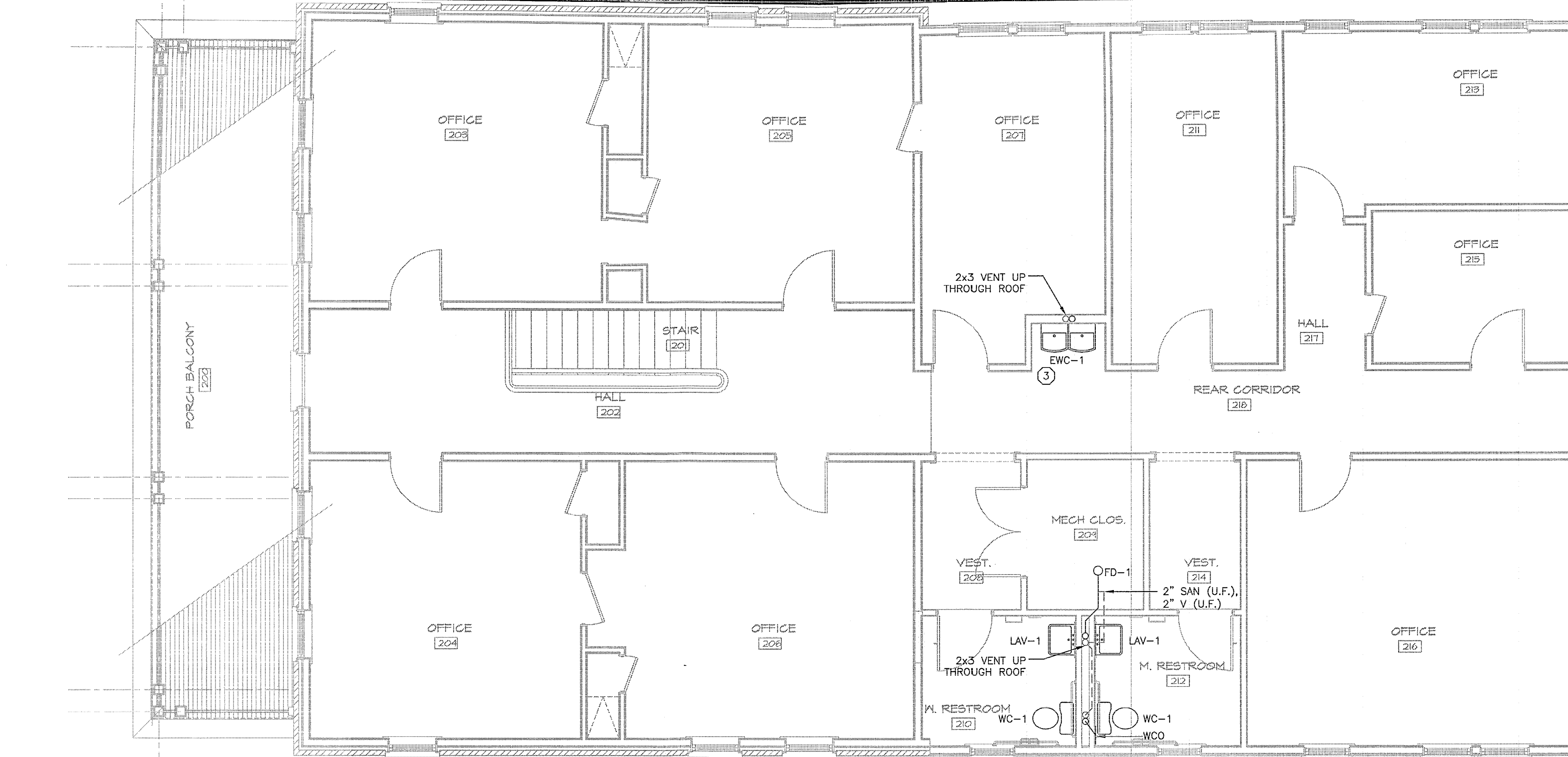
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PLUMBING PLAN -  
 WASTE AND VENT

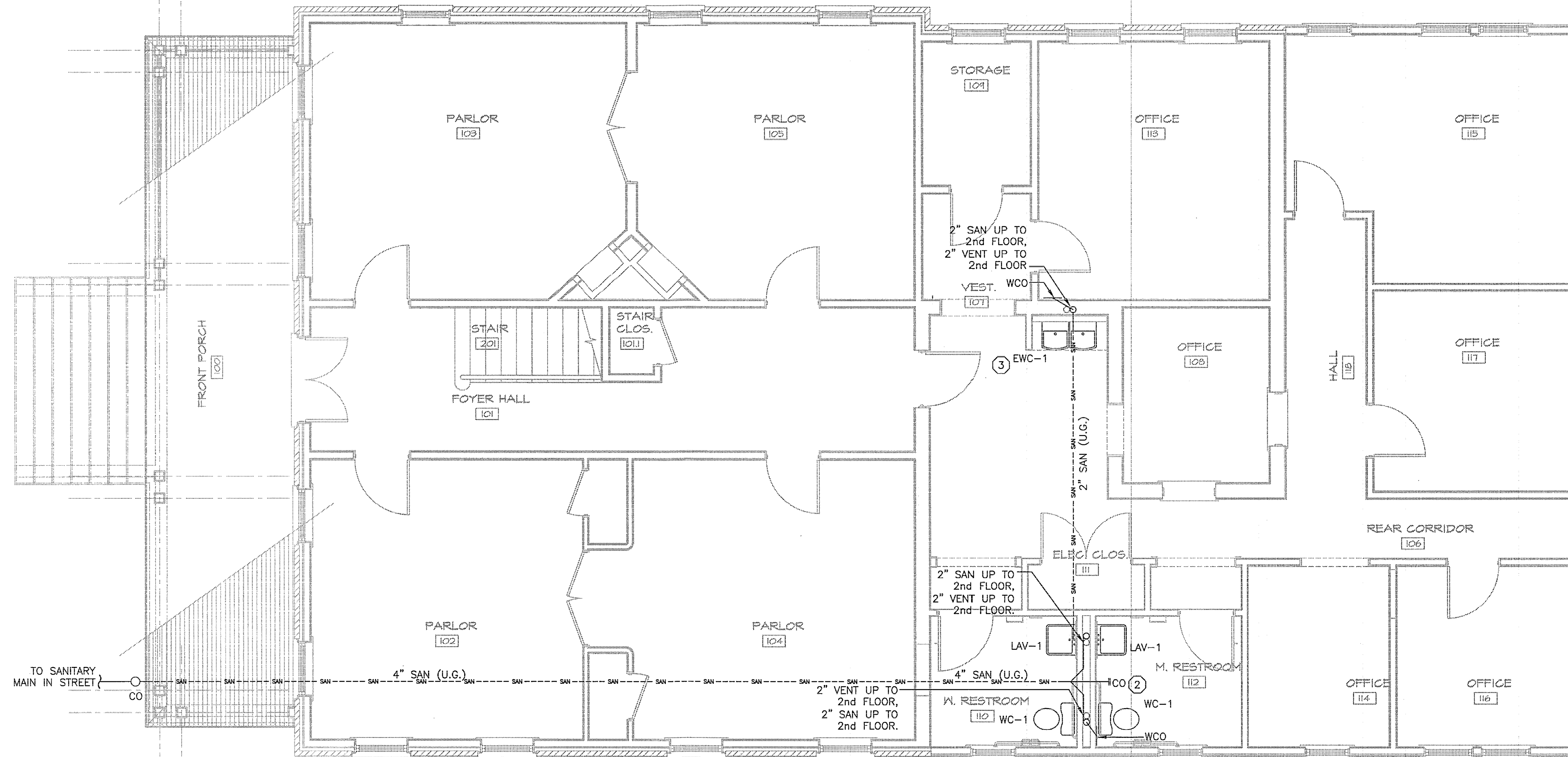
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P4

Sht. 8 of 9 Shts.



**PLUMBING PLAN - 2nd FLOOR (WASTE/VENT)**  
 NORTH  
 0 1' 2' 4' 8'  
 SCALE: 1/4" = 1'-0"



**PLUMBING PLAN - 1st FLOOR (WASTE/VENT)**  
 NORTH  
 0 1' 2' 4' 8'  
 SCALE: 1/4" = 1'-0"

*Daryl A. Bryan*  
 01-28-09  
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KEY NOTES

- 1 PLUMBING CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTION DEVICE (BFD) AFTER WATER METER. WATER METER PROVIDED AND INSTALLED BY LOCAL UTILITY COMPANY.
- 2 WATER HEATER (WH-1) SHALL BE MOUNTED ON WALL. BOTTOM OF HEATER SHALL BE NO LOWER THAN 6" OFF FLOOR.
- 3 PLUMBING CONTRACTOR SHALL PROVIDE ONE (1) THERMOSTATIC MIXING VALVE THAT SERVES ALL FOUR (4) LAVATORIES (LAV-1) AS MANUFACTURED BY POWERS OR EQUAL.
- 4 ELECTRICAL WATER COOLER (EWC-1) IS A SINGLE STATION, ADA COMPLIANT WATER COOLER.

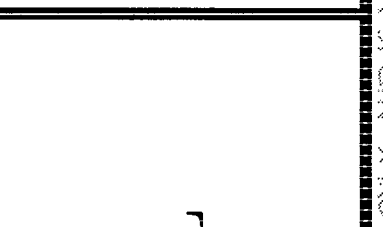
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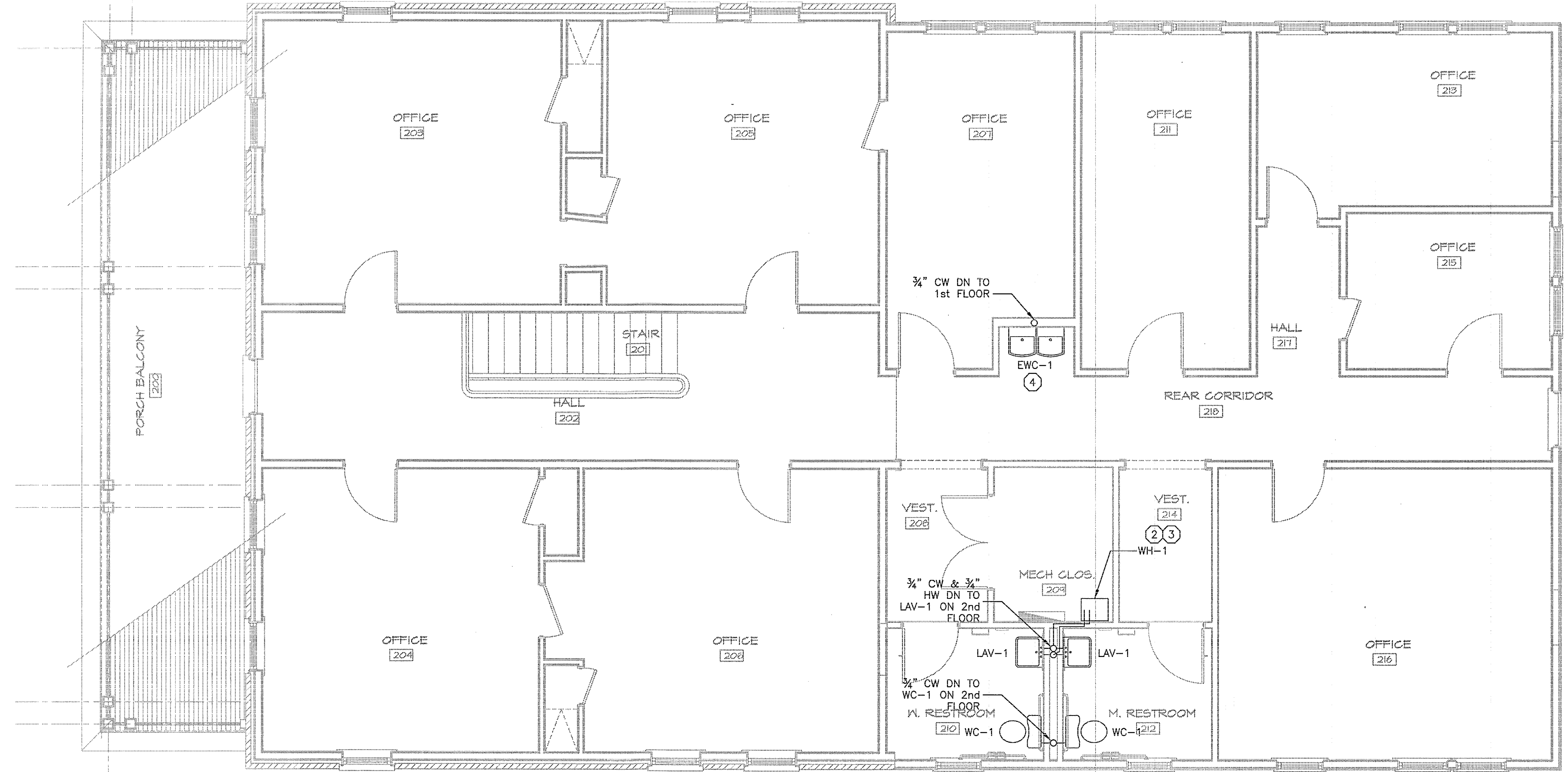


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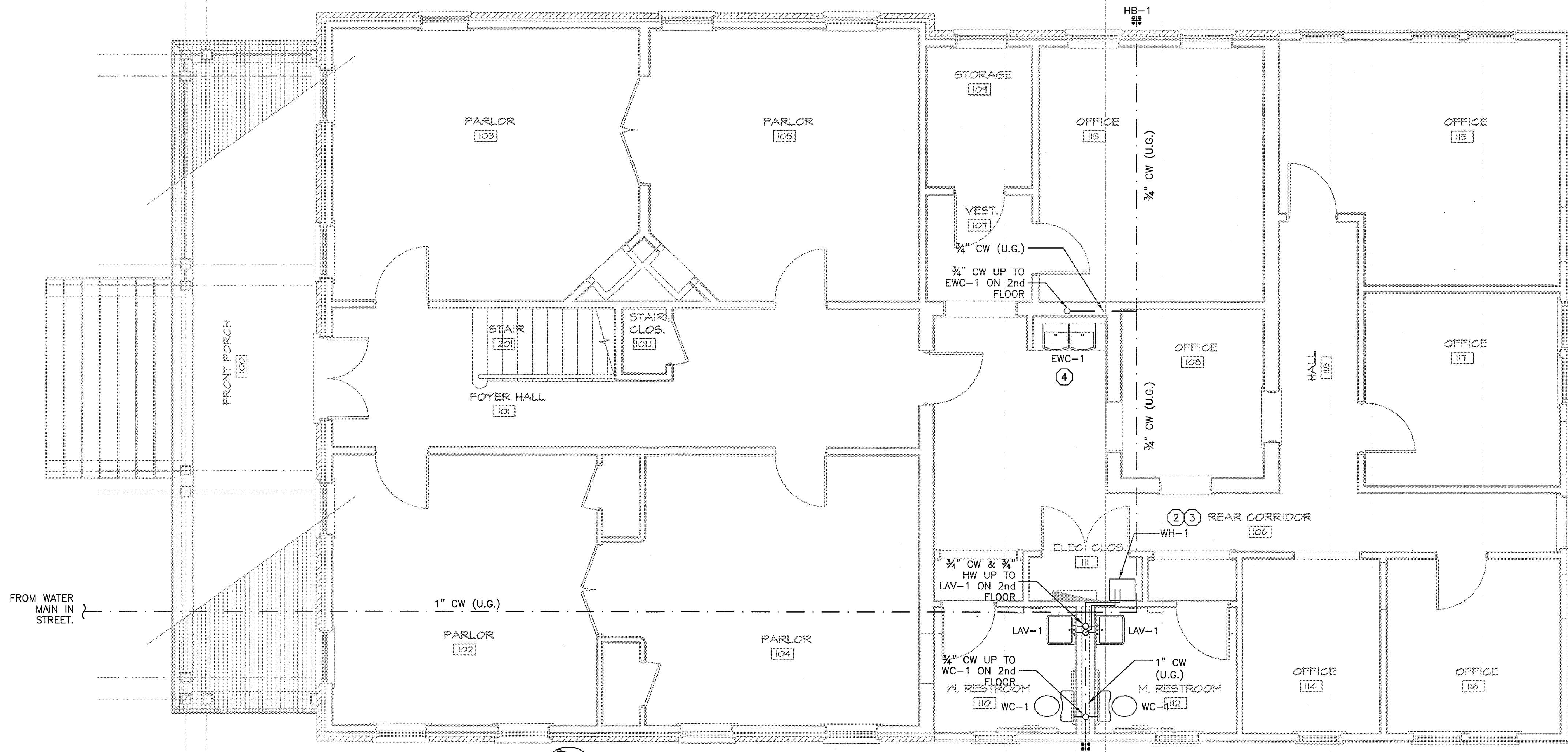
PLUMBING PLAN -  
 WATER

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 Sheet

P5  
 Sht. 9 of 9 Shts



**PLUMBING PLAN - 2nd FLOOR (WATER)**  
 NORTH  
 SCALE: 1/4" = 1'-0"



**PLUMBING PLAN - 1st FLOOR (WATER)**  
 NORTH  
 SCALE: 1/4" = 1'-0"

*Daryl A. Bryan*  
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Table with 2 columns: Issue, Date. Row 1: Issue, 02/24/2006

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RESTORATION OF  
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Jacksonville, Florida

LEGEND AND NOTES

Drawn by: MAM  
Job: 00141-0108  
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E1  
Sht. 1 of 9 Shts.

ELECTRICAL LEGEND

Table of electrical symbols and their descriptions. Includes POWER DEVICE LEGEND, ELECTRICAL SYSTEMS LEGEND, SWITCH LEGEND, LIGHTING LEGEND, and DEMOLITION TAGS.

ELECTRICAL SYSTEMS LEGEND

Table of electrical symbols and their descriptions. Includes COMMUNICATION OUTLET, TELEVISION CAMERA, INTERCOM SPEAKER, and various control panels.

SWITCH LEGEND

Table of switch symbols and their descriptions. Includes SWITCH - KEY ACTIVATED, SWITCH, 3 WAY - KEY ACTIVATED, SWITCH, 4 WAY - KEY ACTIVATED, etc.

LIGHTING LEGEND

Table of lighting symbols and their descriptions. Includes LIGHTING FIXTURE (TYPE "M", CONTROLLED BY SWITCH "G"), LIGHTING FIXTURE (TYPE "M", "n" INDICATES UNSWITCHED NIGHT LIGHT), etc.

MATERIAL LIST

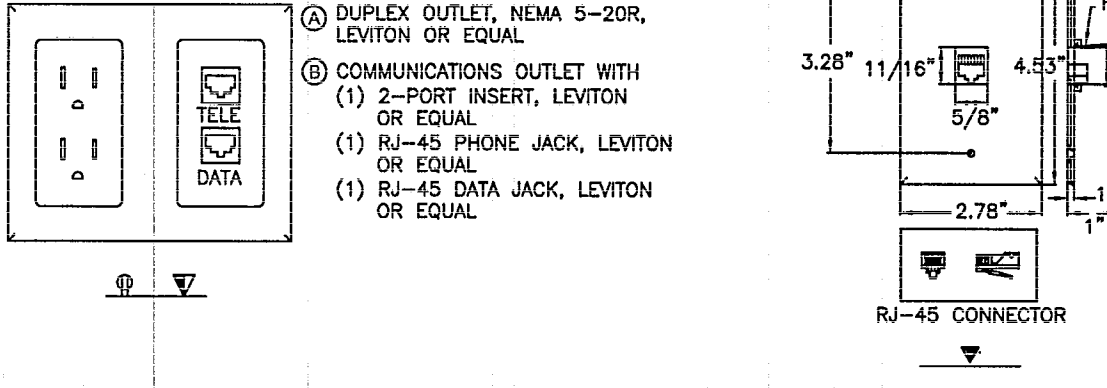


Table with 2 columns: Demolition Tags, Description. Includes EX - EXISTING SHALL REMAIN, ER - EXISTING SHALL BE REMOVED, etc.

GENERAL ELECTRICAL NOTES

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE CODES, AND LOCAL BUILDING CODES, LATEST EDITIONS.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK SHALL MEET OR EXCEED THE ABOVE REQUIREMENTS.
3. THE CONTRACTOR IS DIRECTED TO OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDUMS TO COORDINATE THE RELATED WORK AND SCHEDULING.
4. THE CONTRACTOR IS REMINDING THAT ELECTRICAL SERVICE TO AND FOR MECHANICAL, KITCHEN AND OTHER EQUIPMENT ARE BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED.
5. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE ARCHITECTURAL AND MECHANICAL PLANS TO ASSURE THAT ELECTRICAL SERVICE FOR ALL ITEMS AND/OR EQUIPMENT REQUIRING ELECTRICAL SERVICE IS INCLUDED.
6. MECHANICAL AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE.
7. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT, INCLUDING OFFICIAL ROOM NUMBER.
8. MINIMUM TRADE SIZE FOR HOME RUN CONDUIT (EMT) PERMITTED SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
9. ALL CONDUCTOR SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN (MINIMUM SIZE SHALL BE #12AWG).
10. ALL LIGHT SWITCHES AND DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMPERE AT 125/277 VOLTS A/C.
11. ALL ELECTRICAL WIRING DEVICES INDICATED TO BE INSTALLED IN MASONRY WALLS OR FLOORS SHALL BE FLUSH MOUNTED.
12. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
13. THE LIGHTING FIXTURE SCHEDULE IS FOR REFERENCE ONLY. MODEL NUMBERS LISTED MAY NOT INCLUDE ALL REQUIRED OPTIONS.
14. ALL EXIT LIGHTS SHALL BE PROVIDED WITH UNIVERSAL MOUNTING BRACKETS.
15. THE CONTRACTOR SHALL FURNISH THE AIR CONDITIONING SUBCONTRACTOR AND THE CEILING SUBCONTRACTOR COPIES OF APPROVED LIGHT FIXTURE SHOP DRAWINGS.
16. ALL RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS SHALL BE TENTED TO COMPLY WITH THE APPLICABLE CEILING RATING.
17. TELEPHONE CONDUITS ARE TO BE LONG RADIUS TYPE AND SHALL CONTAIN PULL WIRES.
18. ALL SPECIAL PURPOSE OUTLETS SHALL BE PROVIDED TO MATCH EQUIPMENT TO BE SUPPLIED.
19. THE PLANS INDICATE THE DESIRED ARRANGEMENT AND GENERAL LOCATION OF LIGHT FIXTURES.
20. ALL PANELBOARDS, SWITCHES, AND CIRCUIT BREAKERS SHALL BE SIEMENS, SQUARE D, GE, OR CUTLER HAMMER.
21. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
22. ANY EXISTING UTILITIES LOCATED IN THE AREA OF CONSTRUCTION WHICH REQUIRE RELOCATION BY THE OWNER SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF TEN DAYS IN ADVANCE.
23. ALL DISCONNECT SWITCHES SHALL BE THE HEAVY DUTY TYPE WITH BUSSMAN TIME DELAY, DUAL ELEMENT AND CURRENT LIMITING FUSES, UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND/OR DIMENSIONS FOR INSTALLATION OF ALL ELECTRICAL ITEMS.
25. ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
26. ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
27. ALL EXIT FIXTURES SHALL BE CONNECTED TO THE BUILDING EMERGENCY PANEL, UNLESS NOTED OTHERWISE.
28. ALL SURGE PROTECTED OUTLETS SHALL BE EQUAL TO HUBBELL #5352 IS.
29. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
30. SECURITY CONDUIT SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL.
31. THE FIRE ALARM MANUFACTURER SHALL PROVIDE CERTIFIED TECHNICIAN TO SUPERVISE THE INSTALLATION, FINAL CONNECTIONS AND TESTING OF THE FIRE ALARM SYSTEM.
32. THE CONTRACTOR SHALL VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES.
33. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
34. IN CEILING SPACE AREAS WHERE NO CABLE TRAY IS INDICATED FOR ROUTING OF TELEPHONE, DATA AND/OR TV CABLES, CABLES SHALL BE BUNDLED TOGETHER WITH THE WIRING AND RUN PARALLEL TO BUILDING LINES.
35. EXTERIOR BURIED CONDUIT RUNS SHALL BE MINIMUM 24" BELOW FINISHED GRADE.
36. WHERE CABLES OR CONDUITS ARE REQUIRED TO PASS THROUGH FIRE RATED WALL, FLOOR OR CEILING THEY SHALL BE SEALED WITH 3M FIRE STOP OR APPROVED EQUAL.
37. CONDUITS, WIRWAYS AND CABLE TRAYS SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM OTHER PIPES, DUCTS OR EXISTING RACKS UNLESS SHOWN ON DRAWINGS.
38. ALL CONDUIT BENDS FOR CATEGORY 5E OR 6 COMMUNICATIONS WIRING SHALL BE SMOOTH LONG RADIUS TYPE, "LB" TYPE FITTINGS SHALL NOT BE USED.
39. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO EXISTING SYSTEMS AND SHALL DELIVER "AS-BUILT" DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.

Signature: Mark A. Morley, PE  
ELECTRICAL ENGINEER  
MARK A. MORLEY, PE  
FLORIDA REG. NO. 59813

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RESTORATION OF  
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ELECTRICAL  
SPECIFICATIONS

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E2

Sht. 2 of 9 Shts.

REVISIONS AND THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY, AND IS NOT VALID FOR CONSTRUCTION.

**A. BASIC ELECTRICAL REQUIREMENTS**

**1. GENERAL:**

THESE SPECIFICATIONS AND THE DRAWINGS ARE INTENDED TO SECURE THE PROVIDING AND INSTALLATION OF ALL MATERIAL AND LABOR NECESSARY FOR A COMPLETE INSTALLATION, TESTED AND READY FOR SERVICE. ALL SYSTEMS SHALL BE FURNISHED COMPLETE WITH NECESSARY APPURTENANCES AND MINOR AUXILIARIES REQUIRED TO MAKE EACH SYSTEM COMPLETE IN EVERY RESPECT.

**2. CODES:**

THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPROVED RULES AND REGULATIONS OF NEMA, NEC, NETA, NFPA, IEEE, ANSI, OSHA, BOCA ALONG WITH STATE AND LOCAL MUNICIPAL CODES AND ALL APPLICABLE LOCAL CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. LOCAL CODES SHALL INCLUDE THE 2004 FLORIDA BUILDING CODE AND THE COUNTY BUILDING CODE.

**3. FEES AND INSPECTION:**

FURNISH ALL NECESSARY CERTIFICATES, AND PAY ALL FEES AND CHARGES CONNECTED WITH WORK IN COMPLIANCE WITH CODES, APPLICABLE LAWS AND MUNICIPAL REGULATIONS. DELIVER THESE TO THE ENGINEER BEFORE FINAL ACCEPTANCE OF WORK. THIS CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, SERVICE, EQUIPMENT, MATERIAL, TOOLS, TRUCKING, HOISTING AND ERECTING APPARATUS, TRANSPORTATION, AND SHALL PAY ALL FEES, PERMITS, INSPECTIONS, CERTIFICATES AND RELATED ITEMS TO PROPERLY CARRY OUT CONTRACT WORK TO COMPLETION.

**4. DRAWING INTENT:**

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. EXACT LOCATIONS ARE SUBJECT TO APPROVAL BY THE OWNER, WHO RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGES IN THE LOCATION INDICATED WITHOUT EXTRA COST. SCALED DIMENSIONS SHALL NOT BE USED. THIS PERTAINS IN PARTICULAR TO ALL LIGHTING FIXTURES, SWITCHES. REQUIRED MEASUREMENTS SHALL BE VERIFIED AT THE BUILDING.

**5. INSURANCE:**

CONTRACTOR SHALL FURNISH THE OWNER WITH A COPY OF HIS CERTIFICATE OF INSURANCE FOR WORKMEN'S COMPENSATION, PERSONAL AND PROPERTY LIABILITY IN THE AMOUNT SPECIFIED BY THE OWNER.

**6. EQUIPMENT LIABILITY:**

ALL ELECTRICAL EQUIPMENT, MATERIALS AND APPLIANCES SHALL BE NEW AND SHALL HAVE THE LISTING OF THE UNDERWRITERS' LABORATORIES, INC., SHALL BEAR LABELS ATTESTING TO UL APPROVAL AND SHALL BE TYPES APPROVED BY MUNICIPAL DEPARTMENTS HAVING JURISDICTION. MATERIALS AND APPARATUS FOR LIKE SERVICES SHALL BE BY THE SAME MANUFACTURER.

**7. MATERIAL QUALITY:**

ALL MATERIAL AND WORKMANSHIP SHALL BE THE MINIMUM BUILDING STANDARD, UNLESS A HIGHER QUALITY IS INDICATED ON THESE DOCUMENTS.

**8. QUALITY OF WORK:**

ALL WORK SHALL BE INSTALLED NEATLY AND SECURELY IN THE JUDGEMENT OF THE ENGINEER. WORK JUDGED BY ENGINEER AS SLOPPY, UNSAFE OR INFERIOR SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL HAVE UNDERWRITERS APPROVAL.

**9. GUARANTEE:**

GUARANTEE THE OWNER IN WRITING THAT ALL MATERIALS ARE NEW AND THAT ALL WORK INSTALLED IS FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS AND THAT ALL APPARATUS WILL DEVELOP THE CAPACITIES AND CHARACTERISTICS AS INDICATED. IF DURING A PERIOD OF ONE YEAR FROM DATE OF FINAL APPROVAL OF WORK, ANY DEFECTS IN WORKMANSHIP, MATERIALS OR PERFORMANCE APPEAR, CONTRACTOR SHALL PROMPTLY REMEDY WITHOUT COST TO THE OWNER. IN ADDITION, THE CONTRACTOR MUST MAKE GOOD, WITHOUT COST TO THE OWNER, ANY OMISSIONS FROM HIS WORK OR THE RESULT OF ANY NEGLIGENCE, IN CONNECTION THEREWITH, OF ANY IMPROPER MATERIALS DEFECTIVE WORKMANSHIP OR CONSEQUENCES THEREOF, OF WHICH HE MAY IN WRITING BE NOTIFIED WITHIN ONE (1) YEAR OF DATE TO FINAL ACCEPTANCE.

**10. CONTRACTOR'S PREPARATION WORK:**

BEFORE PROCEEDING WITH THE WORK, CHECK ALL DIMENSIONS AND SIZES AND ASSUME FULL RESPONSIBILITY FOR THE FITTING-IN OF ALL EQUIPMENT AND MATERIAL.

**11. COORDINATION WITH OTHER TRADES:**

COORDINATE WORK WITH THE WORK OF OTHER CONTRACTORS AND ARRANGE IT SO CONSTRUCTION WORK WILL PROCEED WITHOUT DELAY. EXAMINE DRAWINGS OF OTHER TRADES AND BECOME FULLY INFORMED AS TO EXTENT OF THE WORK REQUIRED AND ITS RELATION TO OTHER WORK IN THE BUILDING. IF THERE IS A CONFLICT, THIS CONTRACTOR SHALL REMOVE AND RELOCATE HIS WORK TO SUIT THE REQUIREMENTS OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER. ARRANGE ALL PARTS OF HIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS, WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE.

**12. SHOP DRAWING:**

SUBMIT FOR DESIGNATED EQUIPMENT NO LESS THAN TWO PRINTS AND ONE TRANSPARENCY OF EACH SHOP DRAWING TO ENGINEER WHO WILL REVIEW AND RETURN TRANSPARENCY WITH COMMENTS. RESUBMIT, IF NECESSARY, UNTIL ACCEPTABLE TO THE ENGINEER. SUBMIT NO LESS THAN SIX COPIES OF MANUFACTURER'S CUTS OR PRINTED MATERIAL TO THE ENGINEER WHO WILL RETURN TWO COPIES WITH COMMENTS. NO EQUIPMENT SHALL BE FABRICATED PRIOR TO REVIEW BY THE ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER NOT MORE THAN 15 WORKING DAYS AFTER CONTRACT SIGNING.

**13. AS-BUILT DRAWINGS DURING CONSTRUCTION:**

AT THE COMPLETION OF THE ENTIRE JOB, AND BEFORE FINAL PAYMENT, FURNISH TO THE ENGINEER/OWNER ONE (1) SET OF PRINTS AND CD USING AUTOCAD 2000 COMPUTERIZED DRAFTING SYSTEM, SHOWING ALL WORK UNDER THIS CONTRACT AS ACTUALLY INSTALLED, WHETHER SHOWN ON THE ORIGINAL PLANS OR NOT, AND NOTING EXACT LOCATIONS OF ALL CONTROLS AND SPECIALTIES. SUBMIT ONE (1) SET OF BLACK AND WHITE PRINTS TO THE ENGINEER FOR APPROVAL PRIOR TO FURNISHING FINAL AUTOCAD DISKETTES AS DESCRIBED ABOVE.

**14. PRIOR SITE INSPECTION:**

BEFORE SUBMITTING PROPOSAL, BIDDERS SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THE WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. BIDDERS SHALL ALSO CONSIDER THE EVENTUALITY OF HAVING TO PERFORM CERTAIN TASKS AT PREMIUM TIME, OUTSIDE OF NORMAL WORKING HOURS AND INCLUDE SUCH TIME IN BID. CERTAIN REMOVALS OF EXISTING ELECTRICAL WORK WILL BE NECESSARY TO THE SATISFACTORY INSTALLATION OF THE NEW WORK. ALL CHANGES CAN NOT BE COMPLETELY DETAILED ON THE DRAWINGS BUT SHALL BE INCLUDED IN THIS CONTRACTOR'S PROPOSALS.

**15. RECEIVING MATERIALS:**

CONTRACTOR TO ARRANGE FOR RECEIVING OF MATERIALS AT SITE AT TIMES PERMITTED BY THE OWNER. ALL MATERIALS AND EQUIPMENT SHALL BE BROKEN DOWN AND REASSEMBLED AS REQUIRED TO PERMIT ENTRANCE INTO THE ULTIMATE LOCATION OF INSTALLATION. CONTRACTOR TO PAY ALL COST TO HAVE A MANUFACTURER'S AUTHORIZED FACTORY REPRESENTATIVE PRESENT DURING BREAKDOWN. RE-ASSEMBLY AND START UP OF EQUIPMENT TO INSURE FACTORY WARRANTIES AND/OR GUARANTEES ARE NOT VOIDED. CONTRACTOR SHALL ARRANGE FOR STORING AND SECURING MATERIALS AND EQUIPMENT AT THE SITE AS DIRECTED BY THE OWNER OR GENERAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, SERVICES, EQUIPMENT, MATERIAL, TOOLS, TRUCKING, HOISTING APPARATUS, ERECTING APPARATUS AND TRANSPORTATION, AND SHALL PAY ALL FEES, PERMITS, INSPECTIONS, CERTIFICATES AND RELATED ITEMS

**16. WORK SCHEDULE:**

CONTRACTOR SHALL SUBMIT TO THE OWNER A DETAILED SCHEDULE FOR WORK WITH THE BID PROPOSAL. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A COPY OF THE BUILDING CONSTRUCTION RULES AND STANDARDS AND REGULATIONS. BID PRICE SHALL BE BASED ON ADHERENCE TO ALL THESE RULES AND REGULATIONS APPLICABLE TO THE SITE.

**17. ACCESSIBILITY AND MAINTENANCE:**

ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.

**18. CLEAN UP:**

SHALL BE IN ACCORDANCE WITH BASE BUILDING STANDARDS AND AS MANDATED BY THE OWNER. THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, SHALL CLEAN ALL SWITCHES, CABINETS, DEVICE PLATES, FIXTURES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND SHALL ENSURE THAT ALL PANELBOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK AND THAT ALL IDENTIFICATION AND MARKING OF EQUIPMENT, CABLES, ALL JUNCTION BOXES AND OTHER ITEMS ARE COMPLETED.

**19. TEMPORARY LIGHT AND POWER:**

ELECTRICAL CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY LIGHT AND POWER FOR THE NEW CONSTRUCTION AREAS, IN ACCORDANCE WITH ACCEPTED STANDARDS AND LOCAL CODES. TEMPORARY LIGHT AND POWER SHALL BE MAINTAINED FROM START TIME OF EARLIEST TRADE TO LATEST TRADES QUITTING TIME, FOR THE ENTIRE PERIOD OF THE CONSTRUCTION. CONTRACTOR SHALL PAY COST ASSOCIATED WITH THE UTILITY CO. DEMAND AND ENERGY CHARGES.

**20. PROJECT CLOSE-OUT:**

WITHIN THREE WEEKS FOLLOWING OCCUPANCY OF THE PROJECT, TWO DISKETTES CONTAINING THE AS-BUILT DRAWINGS AS WELL AS TWO SETS OF MAINTENANCE MANUALS, OPERATING MANUALS AND DRAWINGS (INCLUDING SHOP DRAWINGS) OF ALL ELECTRICAL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER.

**B. RACEWAYS**

1. GENERALLY, ALL BRANCH CONDUITS IN FINISHED AREAS SHALL BE CONCEALED AND EXPOSED IN UNFINISHED AREAS UNLESS OTHERWISE INDICATED. ALL PENETRATIONS OF RATED WALLS, FLOORS OR CEILING SHALL BE SEALED WITH AN APPROVED MATERIAL TO PROVIDE AN EQUAL RATING AS THE FLOOR, WALL OR CEILING BEING PENETRATED. WHERE CONDUIT IS RUN EXPOSED, IT SHALL BE INSTALLED AFTER ALL DUCTWORK AND PIPING IS INSTALLED. CONDUITS SHALL BE ROUTED AS APPROVED BY THE BUILDING ENGINEER. PROVIDE PULL BOXES AS REQUIRED PER CODE.
2. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS NOTED IN THE SPECIFICATIONS. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUITS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
3. DO NOT INSTALL ELECTRICAL RACEWAYS WITHIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSINGS WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.

4. ALL RACEWAYS, CONDUIT, ETC., SHALL BE MECHANICALLY JOINED TOGETHER INTO A CONTINUOUS CIRCUIT. AT ALL BOXES, FITTING AND ENCLOSURES, LOCK NUTS AND BUSHINGS SHALL BE USED TO PROVIDE A MECHANICALLY SECURE CONNECTION. ALL PENETRATIONS OF FIRE RATED WALLS, FLOORS OR CEILING SHALL BE SEALED WITH AN APPROVED MATERIAL TO PROVIDE AN EQUAL RATING AS FLOOR, WALL OR CEILING ASSEMBLY BEING PENETRATED. ALL OPENINGS ON WALLS OF ELECTRICAL CLOSETS AND TELEPHONE COMMUNICATION CLOSETS SHALL BE SEALED. CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.

5. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS OR IN 2 INCH SLAB.

6. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH SEALTITE FLEXIBLE CONDUIT, MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

7. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH NYLON PULL WIRE.

8. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32° F. PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.

9. RIGID STEEL CONDUIT:  
SHALL BE FULL WEIGHT, HOT DIPPED GALVANIZED STEEL, MINIMUM 3/4", WITH FITTINGS OF STEEL OR MALLEABLE IRON. USE: UNDERGROUND, EXTERIOR OR DAMP LOCATIONS.

10. INTERMEDIATE METAL CONDUIT (IMC):  
IMC MAY BE UTILIZED IN LIEU OF FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT WHERE PERMITTED BY CODE, BUILDING STANDARDS AND WHERE FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT IS NOT SPECIFICALLY TO BE USED AS SPECIFIED ABOVE UNDER "RIGID STEEL CONDUIT", CONDUIT SHALL BE LIGHTWEIGHT GALVANIZED STEEL, MINIMUM 3/4", WITH FITTING OF STEEL OR MALLEABLE IRON.

11. ELECTRICAL METALLIC TUBING (EMT):  
EMT MAY BE UTILIZED IN LIEU OF FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT WHERE NOT SUBJECT TO DAMAGE, IN DRY EXPOSED AREAS AND WHERE PERMITTED BY CODE, BUILDING STANDARDS AND WHERE FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT IS NOT SPECIFICALLY TO BE USED AS SPECIFIED ABOVE UNDER "RIGID STEEL CONDUIT", CONDUIT SHALL BE GALVANIZED, MINIMUM 3/4", WITH COMPRESSION FITTINGS.

12. RIGID NONMETALLIC CONDUIT (PVC):  
PVC MAY BE UTILIZED IN LIEU OF FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT WHERE NOT SUBJECT TO DAMAGE, INTERIOR OR EXTERIOR, BELOW FINISHED GRADE ONLY, WHERE PERMITTED BY CODE, BUILDING STANDARDS AND WHERE FULL WEIGHT HOT DIPPED GALVANIZED CONDUIT IS NOT SPECIFICALLY TO BE USED AS SPECIFIED ABOVE UNDER "RIGID STEEL CONDUIT", CONDUIT SHALL BE SCHEDULE 40, MINIMUM 3/4". WHERE THE CONDUIT SYSTEM RISES ABOVE GRADE, HOT DIPPED GALVANIZED RIGID ELBOWS SHALL BE USED. VERTICAL RISES FROM THE BELOW GRADE ELBOW TO ABOVE FINISHED GRADE SHALL BE HOT DIPPED GALVANIZED CONDUIT.

**13. FLEXIBLE STEEL CONDUIT:**

FLEXIBLE STEEL CONDUIT MAY BE UTILIZED FROM OUTLET BOX TO RECESSED LIGHTING FIXTURES. THIS FLEXIBLE STEEL CONDUIT SHALL BE CONTINUOUS SINGLE STRIP, GALVANIZED, MINIMUM 3/4", WITH INSULATED THROAT ANGLE WEDGE TYPE FITTINGS.

14. RACEWAYS SHALL BE AS MANUFACTURED BY NATIONAL ELECTRIC PRODUCTS, TRIANGLE, REPUBLIC STEEL OR APPROVED EQUAL.

15. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS FOR NORMAL AND EMERGENCY CIRCUITS.

**C. WIRE AND CABLE**

1. CONDUCTORS SHALL BE COPPER, 600 VOLT INSULATIONS, DUAL RATED THWN/THHN, ASTM STANDARD, SOLID FOR NO. 10 AND SMALLER, AND STRANDED FOR NO. 8 AND LARGER. MINIMUM WIRE SIZE SHALL BE NO. 12 FOR LIGHTING AND POWER AND NO. 14 FOR CONTROL AND ALARM. AT 120 VOLT AND OVER 100' CIRCUIT LENGTH, USE NO. 10 MINIMUM. AT 265 VOLT AND 220' CIRCUIT LENGTH, USE NO. 10 MINIMUM. ALL CIRCUIT AND CONTROL WIRING IN PULL BOXES, JUNCTION BOXES, CABINETS, AND PANELS SHALL BE TIED AND TAGGED WITH NYLON CABLE TIES SIMILAR TO T&B CO. TYRAP, AND TAGS SIMILAR TO T&B CO. E-2 CODE. TAGS SHALL IDENTIFY CABLES AND EQUIPMENT SERVED.

2. WIRE IN WIRING CHANNELS:  
USE WIRE TYPE SFF-2 FOR BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLUORESCENT FIXTURES AND IN AREAS WITH AMBIENT TEMPERATURE OVER 90 DEGEES C.

3. FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE ADJUSTED AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP.

4. PROVIDE A SAFETY GROUND CONDUCTOR IN EACH RACEWAY FOR FEEDERS AND BRANCH CIRCUITS UNLESS OTHERWISE NOTED.

5. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH RECEPTACLE AND EQUIPMENT CIRCUIT.

6. THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS IN ANY HOME RUN. MISSION CRITICAL CIRCUITS SHALL BE ISOLATED.

7. WIRE COLOR CODING SHALL BE AS PER CODE. WHERE COLOR CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

8. ALL WIRES SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT ALL TERMINATION AND SPLICE POINTS BY THE USE OF BRADY B-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.

**D. WIRING DEVICES**

1. LOCAL WALL SWITCHES:  
LOCAL WALL SWITCHES SHALL BE HEAVY DUTY, TOGGLE, QUIET TYPE, FULLY ENCLOSED IN COMPOSITION CASES, AND RATED 20 AMP AT 120/277 VOLT AC. USE SINGLE POLE, 3-WAY, 4-WAY, PILOT OR KEYPED TYPE AS SHOWN ON DRAWINGS. SIMILAR TO HUBBELL - 1220 SERIES (WHITE). ALL SWITCHES CONNECTED TO EMERGENCY SYSTEM WHERE AN EMERGENCY SYSTEM IS REQUIRED SHALL HAVE RED ILLUMINATED HANDLE.

2. ALL DEVICE COVERPLATES SHALL BE WHITE, OR AS SPECIFIED BY ARCHITECT.

**E. ELECTRICAL BOXES AND FITTINGS**

1. OUTLET BOXES FOR INTERIOR MOUNTED DEVICES SHALL BE ONE PIECE PRESSED STEEL.

2. OUTLET BOXES: GALVANIZED, SHEET STEEL WITH MOUNTING HOLES, CABLE AND CONDUIT-SIZE KNOCKOUT OPENINGS IN BOTTOM AND SIDES, COVER, AND GROUNDING SCREWS.
  - A. LIGHTING FIXTURE BOX: 4" OCTAGON WITH 3/8" FIXTURE STUD.
  - B. DEVICE BOXES: NOMINAL 4" SQUARE MINIMUM 2-1/8" DEEP OR AS REQUIRED. MULTI-DEVICE BOXES SHALL BE OF THE DEEP-GANG TYPE.
  - C. OUTLET BOXES SHALL NOT BE INSTALLED BACK-TO-BACK. OFFSET BOXES BY A MINIMUM OF 12".

3. JUNCTION PULL AND SPLICE BOXES: GALVANIZED CODE-GUAGE SHEET STEEL JUNCTION AND PULL BOXES, WITH SCREW-ON COVERS: WELDED SEAMS AND EQUIPPED WITH STAINLESS STEEL HARDWARE. BOXES INSTALLED OUTDOORS TO BE FABRICATED OF ALUMINUM AND HAVE COVER GASKETS.

4. MOUNTING HEIGHTS FOR DEVICES MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET SHALL BE IN ACCORDANCE WITH THE FOLLOWING UNLESS OTHERWISE NOTED. ALSO COORDINATE WITH ARCHITECTURAL DRAWINGS.
  - A. WALL LIGHT FIXTURES: 4'
  - B. WALL EXIT FIXTURES: BOTTOM OF FIXTURE 2" ABOVE DOOR FRAME.

5. JUNCTION AND PULL BOXES: GENERALLY, DO NOT LOCATE EXPOSED IN FINISHED SPACES. WHERE NECESSARY, RE-ROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100' AND AS INDICATED. JUNCTION, PULL AND SPLICE BOXES GALVANIZED CODE-GUAGE SHEET STEEL JUNCTION AND PULL BOXES, WITH SCREW COVERS; WELDED SEAMS AND EQUIPPED WITH STAINLESS STEEL HARDWARE BOXES INSTALLED OUTDOORS TO BE FABRICATED OF ALUMINUM AND HAVE COVER GASKETS.

6. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. INSTALL DEVICE BOXES IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

7. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

8. ALL JUNCTION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR NAME OF COMMUNICATIONS SYSTEM CABLING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE CLEARLY MARKED WITH A BOLD, INDELEBILE MARKING PEN AND LETTERING SHALL BE NEATLY AND LEGIBLY PRINTED. JUNCTION BOXES ON EMERGENCY SERVICE SHALL BE PAINTED RED AND LABELED.

9. PROVIDE SEPARATE PULL OR SPLICE BOXES FOR EMERGENCY AND NORMAL WIRING OR BARRIER IN CONFORMANCE WITH CODE REQUIREMENTS.

**F. LIGHTING FIXTURE GENERAL REQUIREMENTS**

1. ALL LIGHT FIXTURES TO BEAR UL LABEL. PROVIDE A COMPLETE SET OF LAMPS FOR EACH FIXTURE SPECIFIED. FIXTURE SHALL BE OF SUITABLE HOUSING FOR AREA INSTALLED: EXAMPLE, WEATHER PROOF, RAIN TIGHT OR EXPLOSION PROOF. FIXTURE TO BE INDEPENDENTLY SUPPORTED TO STRUCTURAL MEMBER GRID. "I" BARS ARE NOT CONSIDERED STRUCTURAL MEMBERS. WHERE FIXTURES ARE PENDANT MOUNTED, PROVIDE STEEL STEMS FOR PENDANT HUNG FIXTURES WITH FINISH TO MATCH FIXTURE. PROVIDE SHWEL ALIGNER WITH 15 DEGREES MINIMUM CORRECTION. PROVIDE METAL CEILING CANOPY OF MATCHING FINISH FOR EACH PENDANT FIXTURE. PROVIDE AT LEAST TWO PENDANTS OR SUPPORTS PER FIXTURE.

LIGHTING FIXTURES AND LAMPS SHALL BE AS SHOWN AND SCHEDULED ON THE DRAWINGS AND SHALL BE LOCATED IN STRICT CONFORMANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS. EACH FIXTURE SHALL BE A COMPLETE UNIT WITH ALL APPURTENANCES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION AT ITS DESIGNATED LOCATION. RECESSED OR BUILT-IN UNITS SHALL BE COORDINATED WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.

2. FLUORESCENT LIGHT FIXTURES:  
PLASTIC DIFFUSERS AND SHIELDING TO BE ACRYLIC PLASTIC ONLY, UNLESS OTHERWISE NOTED. CLEAR PRISMATIC LENS TYPE SHIELDING SHALL BE INJECTION MOLDED, UNLESS OTHERWISE NOTED. FINISH TO BE BAKED ENAMEL, MATTE WHITE ON INTERIORS WITH MINIMUM TESTED REFLECTANCE OF 85%, UNLESS OTHERWISE NOTED.

3. LAMPS:  
FLUORESCENT LAMPS SHALL BE T-8, 265 A, RAPID START.

4. ELECTRONIC FLUORESCENT BALLASTS:  
ELECTRONIC BALLASTS FOR 4 FT FLUORESCENT LAMPS SHALL BE RAPID START, UL LISTED AND ETL CERTIFIED FULL LIGHT OUTPUT. BALLASTS SHALL OPERATE WITH 120V OR 277V AS REQUIRED BY CIRCUITING, 60 HZ, SUPPLY AND A HIGH POWER FACTOR. BALLAST MUST NOT EXCEED A TOTAL HARMONIC DISTORTION OF 10% AND HAVE A MINIMUM 88% B.F. PER LOCAL ENERGY CODE. (2) LAMP AND (1) LAMP BALLASTS MUST BE PROVIDED. (3) LAMP BALLAST ARE NOT ACCEPTABLE. BALLASTS SHALL HAVE THE QUIETEST NEMA RATED NOISE LEVEL AVAILABLE. PROVIDE "A" SOUND-RATED BALLAST UNLESS OTHERWISE NOTED. REPLACE NOISY BALLASTS AT NO COST TO OWNER, AS DIRECTED. BALLASTS TO OPERATE IN INDOOR AIR CONDITIONED SPACES IN TEMPERATURES FROM 50° F TO 105° F AMBIENT. IN EXTERIOR AND LOADING DOCK AREAS, IN TEMPERATURE FROM 0° TO 150° F AT RATED LIFE IN PENDANT MOUNTED TYPE FIXTURE, BALLASTS SHALL BE CLASS "F" TYPE WITH INTERNAL RESETTING THERMAL PROTECTOR. BALLASTS SHALL OPERATE WITHOUT TRIPPING WITHIN PLUS OR MINUS 10 PERCENT OF NORMAL VOLTAGE. BALLASTS SHALL BE NON-PCB AND RFI LIMITED. BALLASTS SHALL BE OF HIGH FREQUENCY (20 KHZ OR GREATER) AND OPERATE WITHOUT DETECTABLE FLICKER. BALLASTS TO BE MECHANICALLY AND ELECTRICALLY INTERCHANGEABLE WITH STANDARD MAGNETIC BALLASTS. BALLASTS SHALL BE APPROVED FOR OPERATING WITH STANDARD AND ENERGY SAVING LAMPS. BALLASTS SHALL BE MANUFACTURED BY LITTON BALLASTAR, TRIAD UTDRAD, OR JEFFERSON "JEFF-TRONIC".

6. IDENTIFICATIONS  
1. ALL WIRES SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT TERMINATION AND SPLICE POINTS BY THE USE OF BRADY B-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.

2. ALL JUNCTION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR NAME OF COMMUNICATIONS SYSTEM CABLING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE CLEARLY MARKED WITH A BOLD, INDELEBILE MARKING. OPEN LETTERING SHALL BE NEATLY AND LEGIBLY PRINTED. JUNCTION BOXES ON EMERGENCY SERVICE SHALL BE PAINTED RED AND LABELED AS "EMERGENCY".

3. NAMEPLATE:  
PROVIDE NAMEPLATES FOR DISCONNECT SWITCHES, PANELBOARDS, AND ALL OTHER ELECTRICAL EQUIPMENT. THE NAMEPLATE SHALL BE MADE OF BLACK PHENOLIC PLASTIC WITH WHITE ENGRAVED LETTERS AT LEAST 3/4" HIGH. THE NAMEPLATES SHALL BE INSTALLED ON THE EXTERIOR OF THE EQUIPMENT WITH TWO COUNTER SUNK OVAL HEAD SCREWS.

- H. ELECTRICAL TESTING  
1. TEST AND ADJUST ALL EQUIPMENT AND WIRING INSTALLED AND/OR CONNECTED UNDER THIS CONTRACT, INCLUDING ELECTRICAL DEVICES OR EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND OPERATION OF EQUIPMENT, ALL MEASURING INSTRUMENTS MUST BE PROPERLY CALIBRATED.

2. FOR TESTING AND APPROVAL, CONTRACTOR SHALL PROVIDE AUTHORITIES HAVING JURISDICTION THE PROPER FACILITIES FOR ACCESS AND FOR INSPECTION.

3. CHECK ALL LIGHTING FIXTURES AND RECEPTACLES FOR PROPER OPERATION.

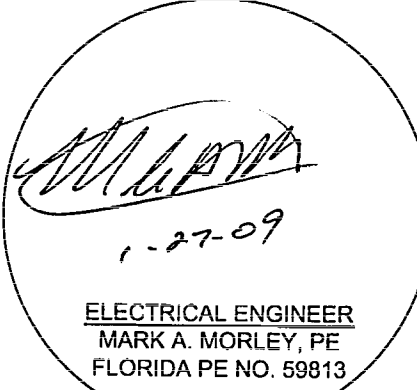
4. CHECK ALL SYSTEM AND EQUIPMENT GROUNDS FOR PROPER VALUE OF RESISTANCE USING THE MEGGER GROUND TESTER IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTRUCTIONS. TEST INSULATION RESISTANCE OF ALL FEEDERS PRIOR TO ENERGIZING.

5. THE LOADS CONNECTED TO EACH PHASE OF ALL CIRCUITS CONNECTED TO PANELBOARDS SHALL BE BALANCED AS CLOSE AS POSSIBLE.

6. FINAL TEST:  
AT THE TIME OF THE FINAL INSPECTION AND TESTS, ALL ELECTRICAL WORK MUST HAVE BEEN COMPLETED. EACH ENTIRE WIRING SYSTEM MUST TEST FREE FROM SHORT CIRCUITS AND GROUNDS. PROVIDE FINAL OPERATIONAL TEST FOR ALL EQUIPMENT TO THE SATISFACTION OF THE ENGINEER.

1. GROUNDING  
1. METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES AND OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED IN AN APPROVED MANNER. PROPER HARDWARE REQUIRED FOR A COMPLETE GROUNDING SYSTEM SHALL BE INSTALLED BY THE CONTRACTOR. CONDUIT INSTALLATION SHALL PROVIDE GROUND CONTINUITY. PROVIDE SEPARATE GROUND CONDUCTORS IN ALL CONDUIT RUNS AND WHERE REQUIRED BY CODE, GROUND EACH SYSTEM NEUTRAL OF DRY TYPE TRANSFORMER TO BUILDING STRUCTURAL STEEL OR COLD WATER MAIN. PROVIDE AN ADDITIONAL ISOLATED GROUND CONDUCTOR (IN GREEN/YELLOW) FOR ISOLATED GROUND SYSTEM AND CONNECT AS SHOWN ON DRAWINGS.

2. SERVICE GROUND SHALL BE IN ACCORDANCE WITH THE LOCAL CODE AND THE NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS. EQUIPMENT GROUND SHALL CONSIST OF GROUNDING ALL METALLIC NON-CURRENT CARRYING COMPONENTS OF THE ELECTRICAL SYSTEM (CONDUIT SYSTEM). METALLIC RACEWAYS SHALL EFFECTIVELY AND PERMANENTLY MAINTAIN CONTINUITY OF GROUND BETWEEN EQUIPMENT AND GROUNDING SOURCE. EQUIPMENT GROUND SHALL BE OF THE SAME TYPE AS FOR THE SERVICE GROUND. MECHANICAL EQUIPMENT, MACHINERY, ETC., SHALL ALSO BE EFFECTIVELY GROUNDED.





DO NOT MEASURE DRAWINGS  
 NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES  
 PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

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Issue  
 PROGRESS SET  
 02/24/2008

LIGHTING FIXTURE SCHEDULE																
FIXTURE TAG	SIZE	DESCRIPTION	LENS REFLECTOR	FRAME FINISH	FIXTURE HOUSING			MANUFACTURER		INSTALL MOUNTING	QTY.	LAMP WATTS	TYPE/COLOR	VOLTAGE BALLAST	MISCELLANEOUS ACCESSORIES	REMARKS
					BODY	AIR FUNCTION	MANUFACTURER	CATALOG								
S1	15 1/2" DIA.	COMPACT FLUORESCENT PENDANT LUMINAIRE	GLASS	BR. ALUM.	ALUMINUM	N/A	FC LIGHTING	FCP670-226T-T-BSS	PENDANT	2	26W	CF QUAD TUBE	120V	12" BRUSHED ALUMINUM STEM	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S2	6" DIA.	COMPACT FLUORESCENT DOWNLIGHT	OPEN	WHITE	STEEL	N/A	LIGHTOLIER	6218HU-8051CLW	RECESSED	2	18W	CF QUAD TUBE	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S2E	6" DIA.	COMPACT FLUORESCENT DOWNLIGHT EMERGENCY	OPEN	WHITE	STEEL	N/A	LIGHTOLIER	6218HU-8051CLW-EM	RECESSED	2	18W	CF QUAD TUBE	120V	PROVIDE EMERGENCY BATTERY PACK 750 LUMEN, MIN.	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S3	7.2"x9.7"	COMPACT FLUORESCENT PENDANT LUMINAIRE	GLASS	BR. NICKEL	ALUMINUM	N/A	LAM	HR20-2/27BX-HC-RDS-SBN-DC	PENDANT	3	18W	SPIRAL GU24	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S4	16" DIA.	COMPACT FLUORESCENT LENSED LUMINAIRE SEMI-FLUSH	GLASS	BR. NICKEL	ALUMINUM	N/A	FC LIGHTING	FCP670-226T-T-BSS-SM	PENDANT	2	26W	CF QUAD TUBE	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S5	31"x10 1/2"	COMPACT FLUORESCENT VANITY LUMINAIRE 3-LAMPS	GLASS	BR. NICKEL	ALUMINUM	N/A	FORECAST	F4455-36	WALL	3	13W	SPIRAL GU24	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S6	6" DIA.	COMPACT FLUORESCENT CEILING LUMINAIRE UL DAMP LOCATION LISTED	GLASS	BR. NICKEL	ALUMINUM	N/A	EPHAPHANY	EB1140-13-BN	SURFACE	1	13W	CF QUAD TUBE	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S7	9 5/8" DIA.	EXTERIOR WALL LUMINAIRE	GLASS	ANT. BRASS	ALUMINUM	N/A	LIGHTOLIER		WALL	1	60W	MED. BASE	120V	PROVIDE MATCHING WALL MOUNT BRACKET	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S8	6"x9"x7-1/4"	COMPACT FLUORESCENT WALL LUMINAIRE	GLASS	BR. NICKEL	ALUMINUM	N/A	FORECAST	F1165-40	WALL	1	13W	SPIRAL GU24	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
S9	18"x9"x4"	COMPACT FLUORESCENT WALL LUMINAIRE ADA	GLASS	BR. ALUM.	ALUMINUM	N/A	LAM	HRADA-1/27BX-HT-SBN	WALL	2	13W	CF QUAD TUBE	120V		VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
EM		EMERGENCY LIGHT UNIT	ACRYLIC	BR. NICKEL	ALUMINUM	N/A	LIGHTOLIER	LVL-W	WALL	2	6W	XENON	120V	PROVIDE LEAD CALCIUM BATTERY	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
X1		EDGE LIT LED EXIT SIGN, SINGLE FACE RED LETTERS, POLISHED BRASS HOUSING	ACRYLIC	BRASS	POLYCARB	N/A	LIGHTALARMS	SP-LED-BRASS-RC-D	UNIVERSAL	-	-	L.E.D.	120V	PROVIDE SEALED NICKEL BATTERY	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	
X2		EDGE LIT LED EXIT SIGN, DOUBLE FACE RED LETTERS, POLISHED BRASS HOUSING	ACRYLIC	BRASS	POLYCARB	N/A	LIGHTALARMS	SP-LED-BRASS-RC-D	UNIVERSAL	-	-	L.E.D.	120V	PROVIDE SEALED NICKEL BATTERY	VERIFY FIXTURE SELECTION AND FINISH WITH OWNER/ARCHITECT PRIOR TO ORDERING	

**LIGHTING FIXTURE SCHEDULE NOTES**

- THE LIGHTING FIXTURE SCHEDULE AND CATALOG NUMBERS INDICATE MAJOR REQUIREMENTS FOR THE LIGHTING FIXTURES. WHETHER SPECIFIED BY THE CATALOG NUMBERS OR NOT, THE CONTRACTOR SHALL PROVIDE ALL COMPONENTS, LAMPS, HARDWARE AND RELATED ITEMS TO PROVIDE A COMPLETE LIGHTING FIXTURE TO MEET THE REQUIREMENTS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE MOUNTING WITH THE ARCHITECTURAL CEILING PLANS, SECTIONS AND ELEVATIONS. PROVIDE ALL MOUNTING HARDWARE INCLUDING TRIMS AND FLANGES TO COMPLETE THE INSTALLATION.
- WHERE APPROVED EQUAL OR SINGLE MANUFACTURER FIXTURE IS INDICATED, THE CONTRACTOR MAY SUBMIT A FIXTURE WHICH IS EQUAL OR BETTER TO THE A/E FOR SHOP DRAWING APPROVAL. THE A/E'S DETERMINATION FOR APPROVED EQUAL SHALL GOVERN. PROVIDE A COMPLETE DETAIL OF THE EQUAL FIXTURE WITH A COMPARISON WITH THE SPECIFIED FIXTURE.
- WHERE REQUIRED, MAKE ADJUSTMENTS TO MOUNTING HEIGHT FOR OPTIMUM LIGHTING AFTER ALL EQUIPMENT IS IN ITS FINAL LOCATION.
- AFTER THE INSTALLATION OF LIGHTING FIXTURES IN NON-ACCESSIBLE CEILING AND PRIOR TO THE INSTALLATION OF THE CEILING, THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER AND THE A/E THAT THE BALLAST AND OTHER SERVICEABLE COMPONENTS OF THE FIXTURE ARE SERVICEABLE FROM BELOW THROUGH THE FIXTURE OPENING.
- PROVIDE DIRECTIONAL ARROWS AS INDICATED ON THE PLANS FOR EXIT LIGHTS.

CNN 8696-01

RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

LIGHTING FIXTURE  
 SCHEDULE

Drawn by: MAM  
 Job: 00141-0108  
 Sheet

*Mark A. Morley*  
 1-27-08  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, PE  
 FLORIDA PE NO. 58813

E3  
 Sht. 3 of 9 Shts.

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 ELECTRICAL ENGINEER  
 MARK A. MORLEY, PE  
 FLORIDA PE NO. 58813

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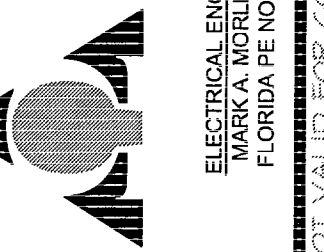
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Issue  
 PROGRESS SET  
 02/21/2009

THE OHMEGA GROUP  
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 DARYL A. BRANTZ, P.E.  
 FLORIDA PE NO. 62772  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, P.E.  
 FLORIDA PE NO. 59813

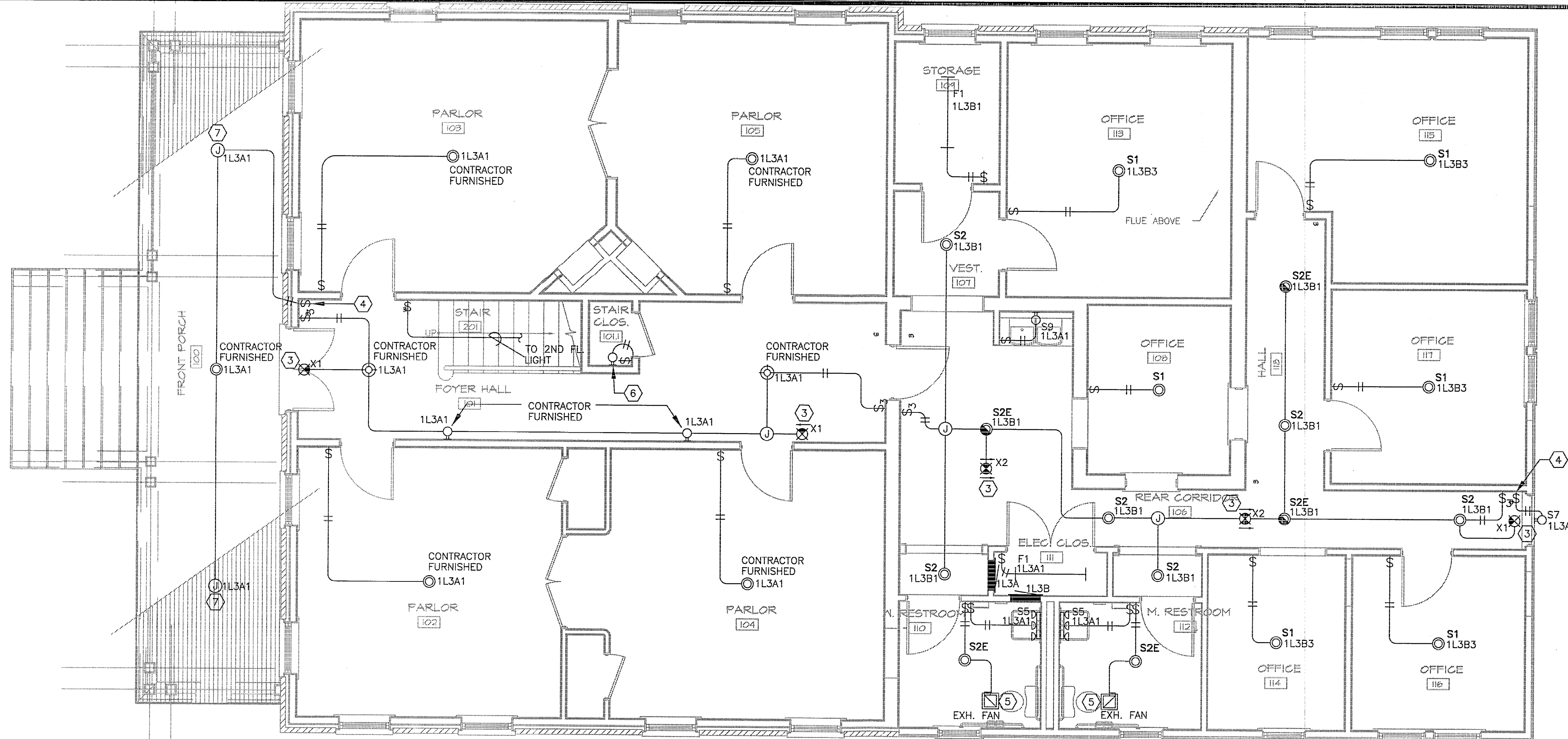


**GENERAL NOTES**

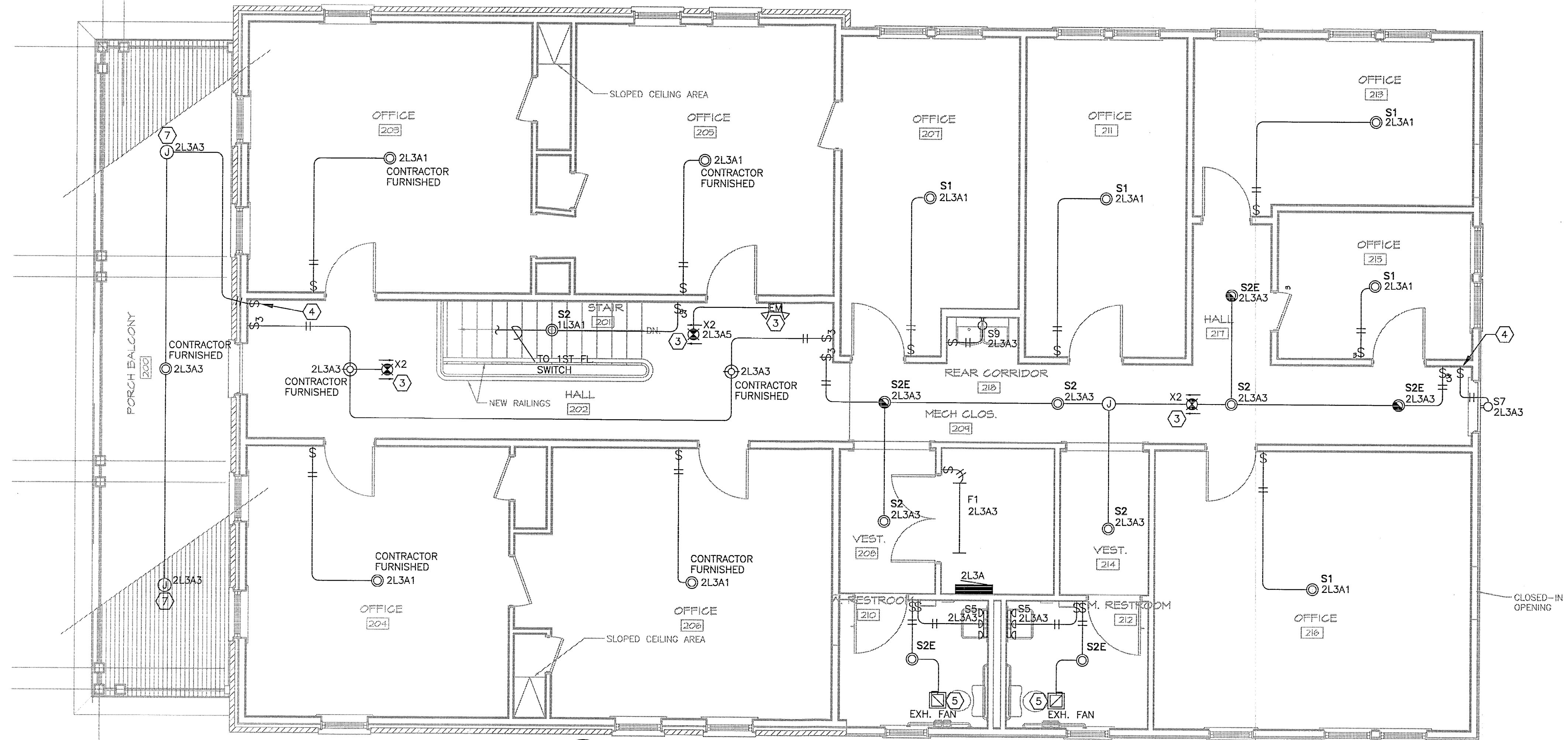
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, FIRE SAFETY CODES, ENERGY CODES, THE AMERICANS WITH DISABILITIES ACT, AND LOCAL BUILDING CODES.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE A/E'S ATTENTION.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
4. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD, PER FBC 13-413.

**LIGHTING NOTES**

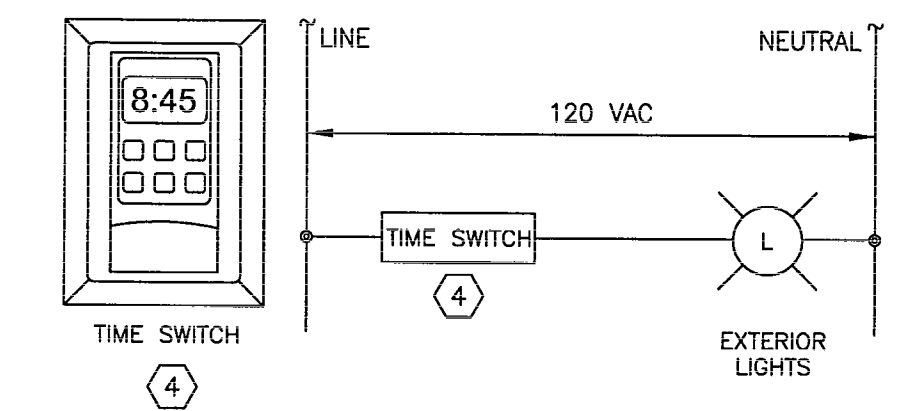
1. FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. COORDINATE FIXTURE LOCATIONS WITH MECHANICAL CEILING DEVICES SUCH AS HVAC LOUVERS AND SUPPLY & RETURN GRILLS.
2. REFERENCE LIGHTING FIXTURE SCHEDULE, SHEET E3.
3. PROVIDE UNSWITCHED CONNECTION TO ALL EXIT AND EGRESS FIXTURES FROM ADJACENT NORMAL LIGHTING CIRCUIT, TYPICAL.
4. PROVIDE IN-WALL AUTOMATIC TIMER SWITCH AS MANUFACTURED BY INTERMATIC MODEL S57C, OR EQUAL; FOR CONTROL OF EXTERIOR LIGHT FIXTURES. SEE DETAIL THIS SHEET. PROVIDE MATCHING COVERPLATE WITH REMAINDER OF WALL DEVICES.
5. REFER TO THE MECHANICAL PLANS FOR WIRING REQUIREMENTS AND LOCATIONS FOR THE REST ROOM EXHAUST FANS. CONNECT FANS TO RUN WHEN THE REST ROOM LIGHTS ARE ILLUMINATED.
6. PORCELAIN KEYLESS LAMPHOLDER WITH (1) 13W SPIRAL TWIST COMPACT FLUORESCENT LAMP.
7. CAP J-BAX FOR FUTURE LIGHT.



**ELECTRICAL LIGHTING PLAN - 1st FLOOR (1/2)**  
 NORTH  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL LIGHTING PLAN - 2nd FLOOR (1/2)**  
 NORTH  
 SCALE: 1/4" = 1'-0"



**EXTERIOR LIGHTING CONTROL DETAIL**  
 SCALE: NONE

*Mark A. Morley*  
 1-27-09  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, P.E.  
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CNN 8696-01

RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

ELECTRICAL FLOOR  
 PLANS - LIGHTING

Drawn by: MAM  
 Job: 00141-0108  
 Sheet

E4

Sht. 4 of 9 Shts.

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Issue  
 PROGRESS SET  
 02/21/2006

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 MARK A. MORLEY, P.E.  
 FLORIDA PE NO. 59813

CNN 8696-01  
 RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

ELECTRICAL FLOOR  
 PLANS - POWER &  
 SYSTEMS - 1ST FLOOR

Drawn by: MAM  
 Job: 00141-0108  
 Sheet

E5  
 Sht. 5 of 9 Shts.

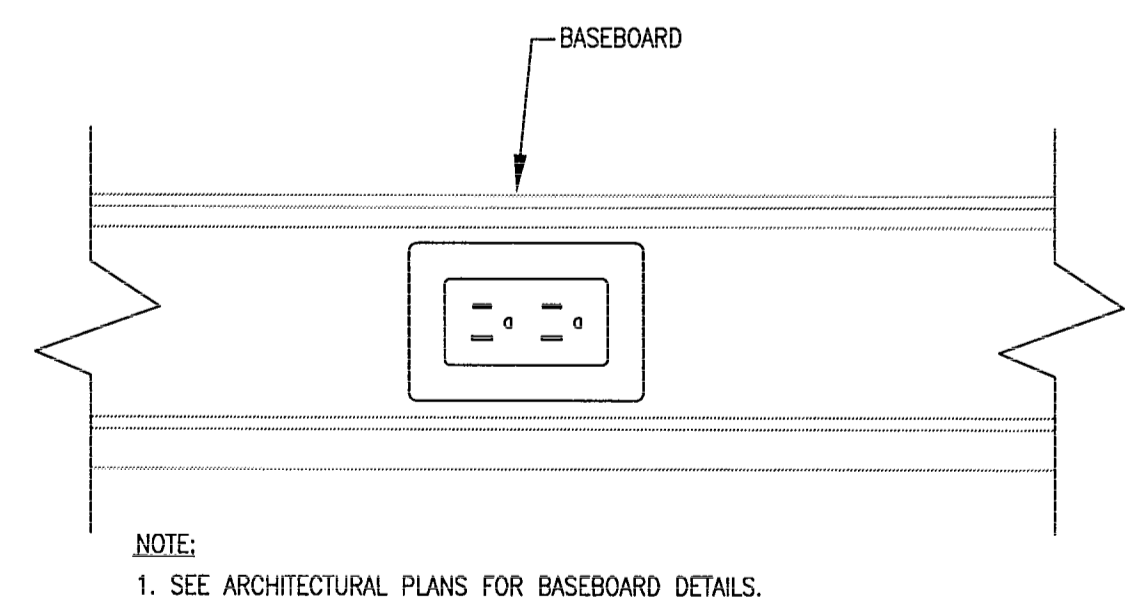
**GENERAL NOTES**

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2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE A/E'S ATTENTION.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
4. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD, PER FBC 13-413.
5. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF THE SAME WALL SHALL BE OFFSET BY A DISTANCE OF 12 INCHES (MIN.).
6. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTANT-RATED WALLS SHALL BE OFFSET BY A DISTANCE OF 24 INCHES (MIN.).
7. INSTALL ELECTRICAL OUTLETS AND COMMUNICATION OUTLETS IN BASEBOARD IN A HORIZONTAL CONFIGURATION.

**POWER AND SYSTEMS NOTES**

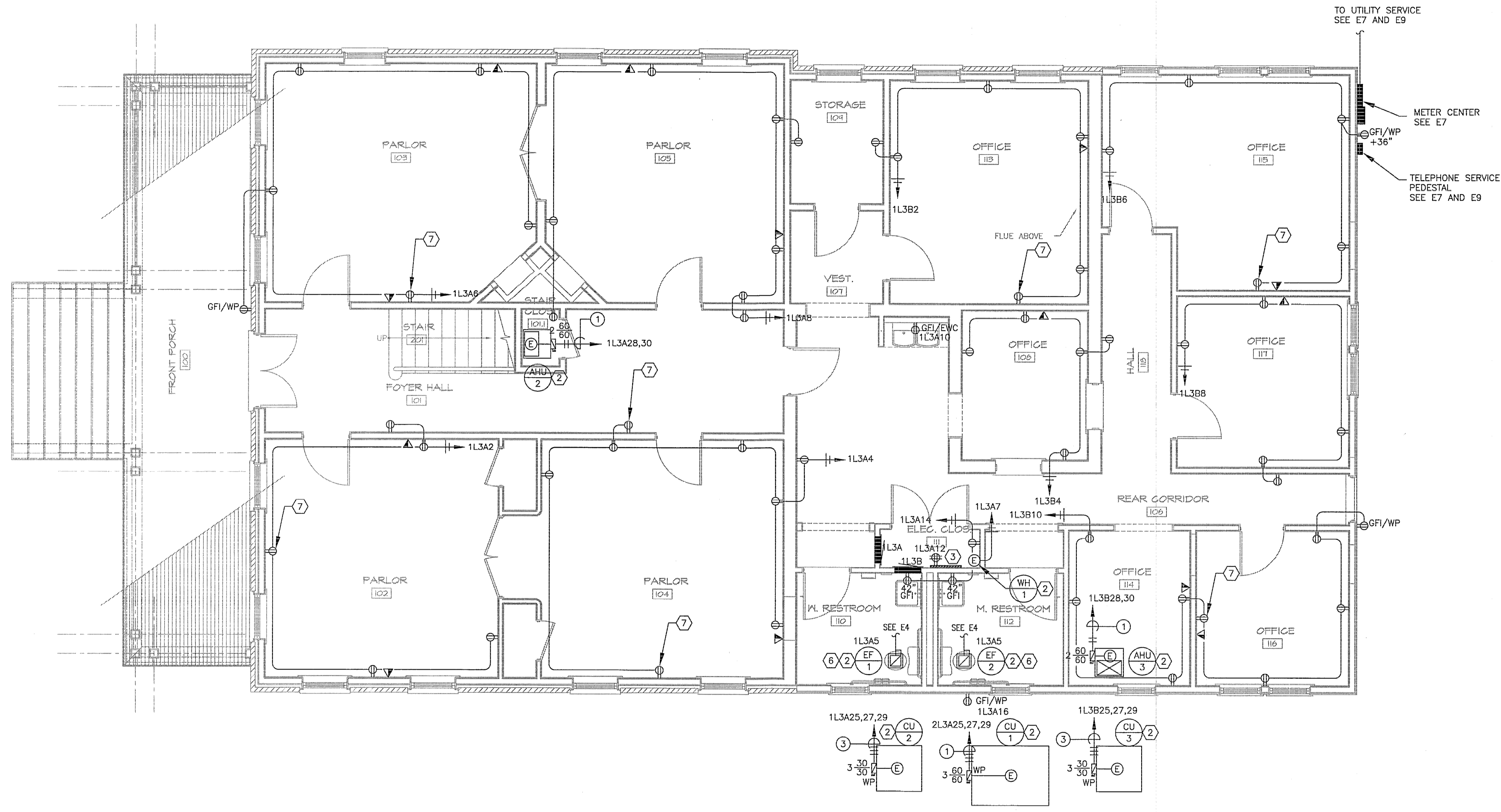
1. CEILING DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS TO COORDINATE DEVICE LOCATIONS. COORDINATE DEVICE LOCATIONS WITH MECHANICAL CEILING DEVICES SUCH AS HVAC LOUVERS AND SUPPLY & RETURN GRILLS.
2. REFER TO THE MECHANICAL PLANS FOR LOCATIONS AND WIRING REQUIREMENTS FOR THE HVAC EQUIPMENT INCLUDING AIR HANDLER UNITS, EXHAUST FANS, HEATERS, ETC. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT PROPERLY SIZED CIRCUITS INCLUDING CONDUCTORS, CONDUIT AND BREAKERS ARE PROVIDED TO SUPPLY THESE LOADS.
3. PROVIDE 2"x4"x3/4" PLYWOOD TELEPHONE BACKBOARDS. PAINT WITH GRAY FLAME RETARDANT PAINT. SEE COMMUNICATIONS RISER DIAGRAM ON SHEET E2.0.
4. FIRE ALARM SYSTEM:
  - A. PROVIDE A FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72 (2002 EDITION) AND THE 2004 FLORIDA BUILDING CODE, CHAPTER 9, SECTION 907. SUBMIT SHOP DRAWINGS TO THE OWNER FOR APPROVAL.
  - B. UNDER THE REQUIREMENTS OF FBC, A FIRE ALARM SYSTEM IS NOT A MANDATORY REQUIREMENT FOR THIS GROUP B BUSINESS OCCUPANCY CLASSIFICATION AS DEFINED IN SECTION "907.2.2 GROUP B".
5. AS A MINIMUM, PROVIDE SINGLE STATION SMOKE ALARMS AS MANUFACTURED BY SIMPLEX, SILENT KNIGHT OR EQUAL. INSTALL IN ACCORDANCE WITH NFPA 72 GUIDELINES.
6. REFER TO THE MECHANICAL PLANS FOR WIRING REQUIREMENTS AND LOCATIONS FOR THE REST ROOM EXHAUST FANS. CONNECT FANS TO RUN WHEN THE REST ROOM LIGHTS ARE ILLUMINATED.
7. MOUNT OUTLETS HORIZONTALLY IN BASEBOARD, TYPICAL. SEE DETAIL, THIS SHEET.

HVAC FEEDER SCHEDULE						
FEEDER NUMBER	QUANTITY OF PARALLEL RUNS	CONDUIT	PHASE		NEUTRAL	EQUIPMENT GROUND
			QUANTITY	SIZE		
1	1	1"	3	#6	---	#10
2	1	1"	3	#3	---	#8
3	1	3/4"	3	#10	---	#10



**ELECTRICAL OUTLET MOUNTING DETAIL**

NTS



**ELECTRICAL POWER & SYSTEMS PLAN - 1st FLOOR** 4 5 7  
 SCALE: 1/4" = 1'-0"  
 NORTH

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 1-27-09  
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 FLORIDA PE NO. 59813

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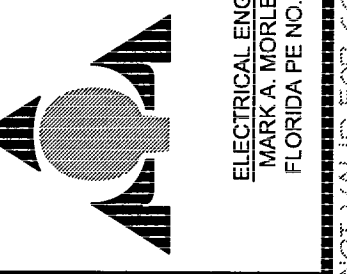
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Issue  
 PROGRESS SET  
 02/24/2008

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ELECTRICAL ENGINEER  
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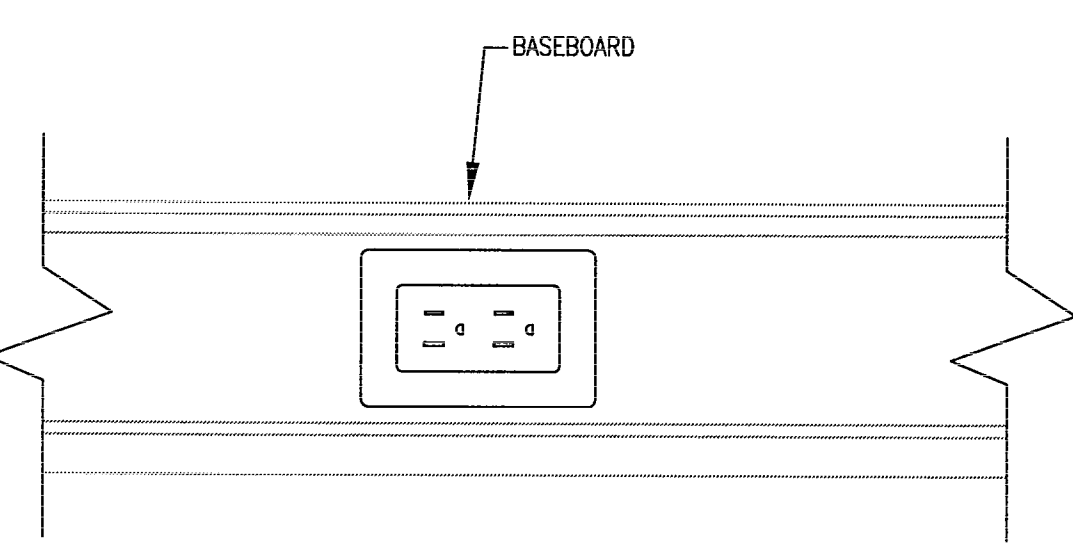
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3. PROVIDE 4"x4"x3/4" PLYWOOD TELEPHONE BACKBOARD. PAINT WITH GRAY FLAME RETARDANT PAINT. SEE COMMUNICATIONS RISER DIAGRAM ON SHEET E7.
4. FIRE ALARM SYSTEM:
  - A. PROVIDE A FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72 (2002 EDITION) AND THE 2004 FLORIDA BUILDING CODE, CHAPTER 9, SECTION 907. SUBMIT SHOP DRAWINGS TO THE OWNER FOR APPROVAL.
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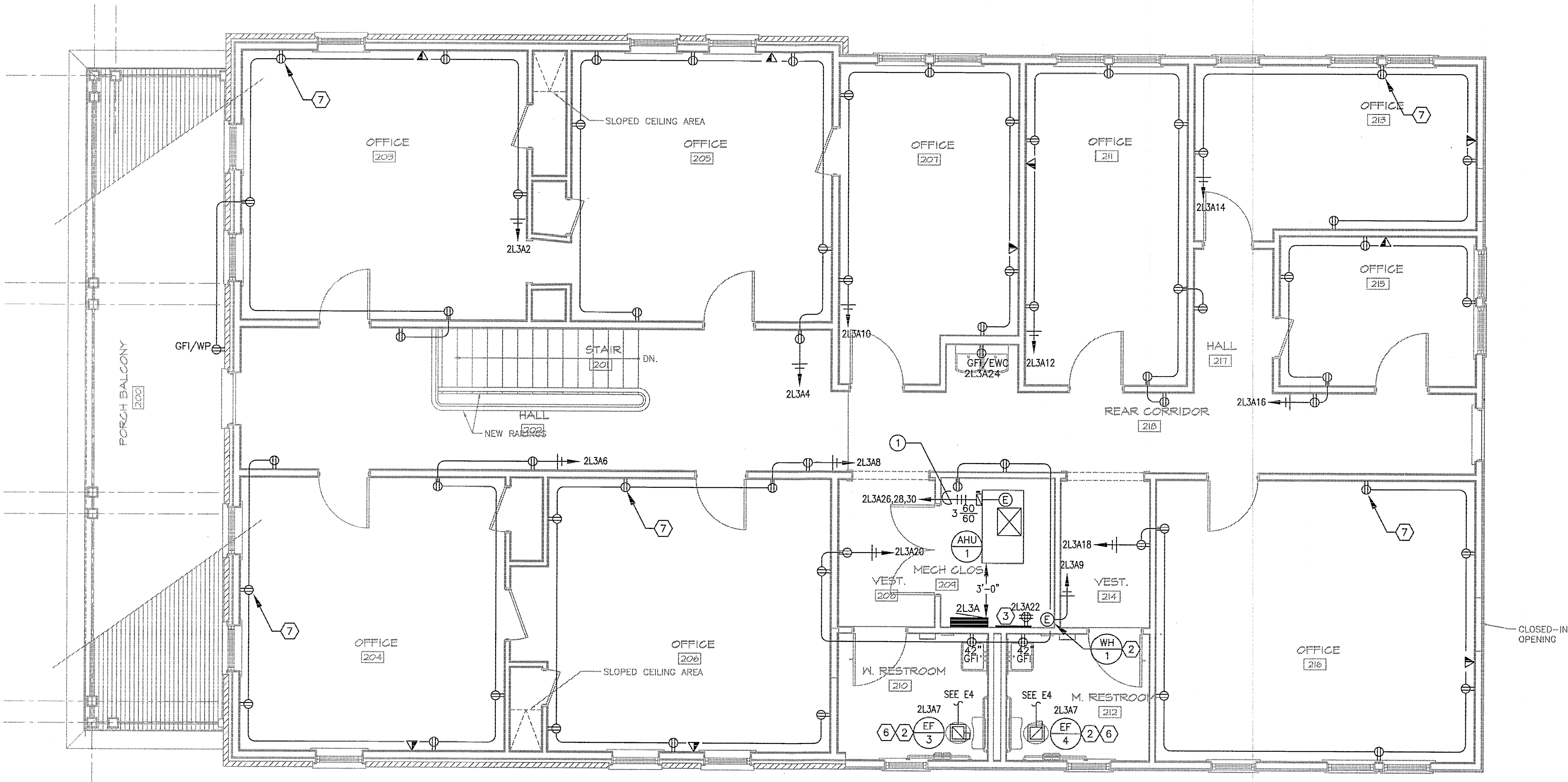
HVAC FEEDER SCHEDULE						
FEEDER NUMBER	QUANTITY OF PARALLEL RUNS	CONDUIT	PHASE		NEUTRAL	EQUIPMENT GROUND
			QUANTITY	SIZE		
1	1	1"	3	#6	---	#10



NOTE:  
 1. SEE ARCHITECTURAL PLANS FOR BASEBOARD DETAILS.

**ELECTRICAL OUTLET MOUNTING DETAIL**

NTS



**ELECTRICAL POWER & SYSTEMS PLAN - 2nd FLOOR** (1)(4)(5)  
 NORTH  
 0 1' 2' 4' 8'  
 SCALE: 1/4" = 1'-0"

CNN 8696-01

RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

ELECTRICAL FLOOR  
 PLANS - POWER &  
 SYSTEMS - 2ND FLOOR

*Mark Morley*  
 1-27-09  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, PE  
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Drawn by: MAM  
 Job: 00141-0108  
 Sheet

E6  
 Sht. 6 of 9 Shts

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 02/24/2008

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RESTORATION OF  
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 Jacksonville, Florida

ELECTRICAL RISER  
 DIAGRAMS

Drawn by: MAM  
 Job: 00141-0108  
 Sheet

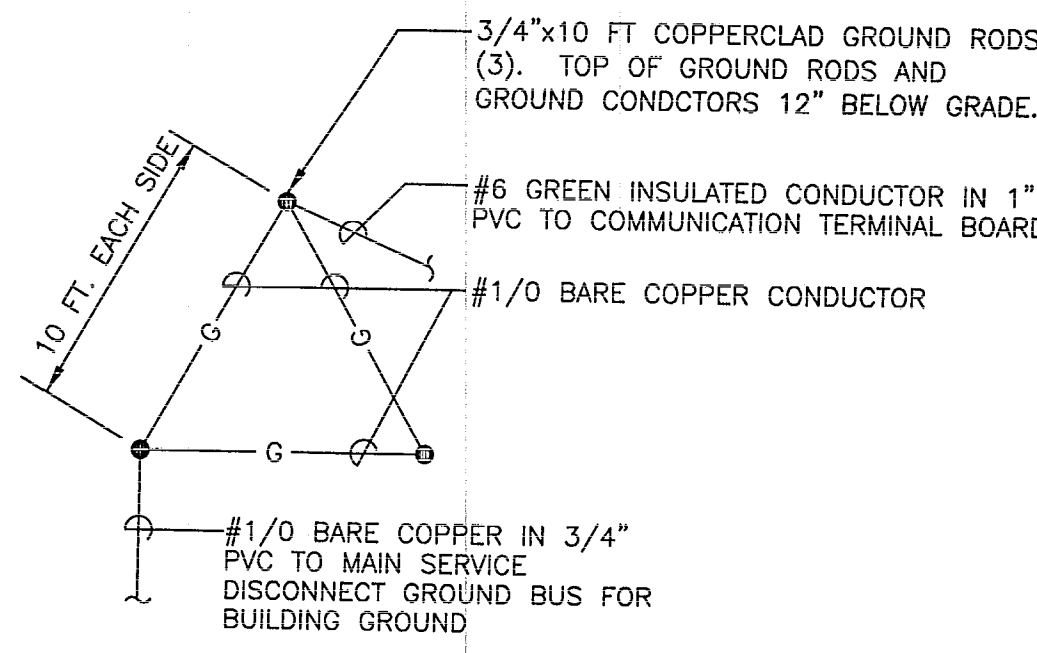
E7  
 Sht. 7 of 9 Shts.

**GENERAL NOTES**

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- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE A/E'S ATTENTION.
- THE TELEPHONE SERVICE INTERFACE WORK SHALL BE INSTALLED IN ACCORDANCE WITH BELLSOUTH REGULATIONS. THE CONTRACTOR SHALL ARRANGE TO HAVE BELLSOUTH INSTALL THE TELEPHONE SERVICE TO THE FACILITY AS REQUIRED.
- THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- MANUFACTURER AND MODEL NUMBERS ARE USED TO ESTABLISH QUALITY AND PERFORMANCE OF THE SYSTEM. ANY EQUIPMENT THAT MEETS OR EXCEEDS THE PERFORMANCE SHALL BE CONSIDERED AND APPROVED AT THE DISCRETION OF THE ENGINEER AND/OR OWNER.
- TRANSIENT VOLTAGE SURGE SUPPRESSOR AS MANUFACTURED BY SQUARE 'D', 208/120V, 3Ø, 4W OR EQUAL. LOCATE ADJACENT TO PANELBOARD.
- THE ELECTRICAL SERVICE ENTRANCE WORK SHALL BE INSTALLED IN ACCORDANCE WITH JEA RULES AND REGULATIONS FOR ELECTRIC SERVICE, LATEST EDITION.
- ALL 15A/1P CIRCUITS SHALL CONTAIN 2#12 & 1#12 GND IN 1/2"Ø, UNLESS NOTED OTHERWISE.
- ALL 20A/1P OR 20A/2P CIRCUITS SHALL CONTAIN 2#12 & 1#12 GND IN 1/2"Ø, UNLESS NOTED OTHERWISE.
- PANELBOARDS SHALL BE SIZED AS INDICATED ON THE SCHEDULES AND MANUFACTURED BY GE, SQUARE D, SIEMENS OR EQUAL. REFERENCE SHEET EB FOR PANEL SCHEDULES.
- ALL ELECTRICAL EQUIPMENT DESIGNED TO BE INSTALLED OUTSIDE SHALL BE PROVIDED WITH NEMA 3R WEATHERPROOF ENCLOSURE.
- ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.
- MAIN SERVICE DISCONNECT SHALL BE SEALABLE TO JEA SPECIFICATIONS.
- ALL FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD, PER FBC 13-413.
- ELECTRICAL CONTRACTOR TO PROVIDE TO BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL FOR ELECTRICAL EQUIPMENT INSTALLED. THE MANUAL SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
  - SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
  - OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
  - NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

**KEYED NOTES**

- ALL COMMUNICATION CABLES SHALL BE PLENUM RATED.
- #6 BARE COPPER GROUND CONDUCTOR TO ELECTRICAL GROUNDING SYSTEM.
- PAINT PLYWOOD BACKBOARD WITH GRAY FLAME RETARDANT PAINT ON ALL SIDES.
- 3/4"Øx10'L CU GROUND ROD.

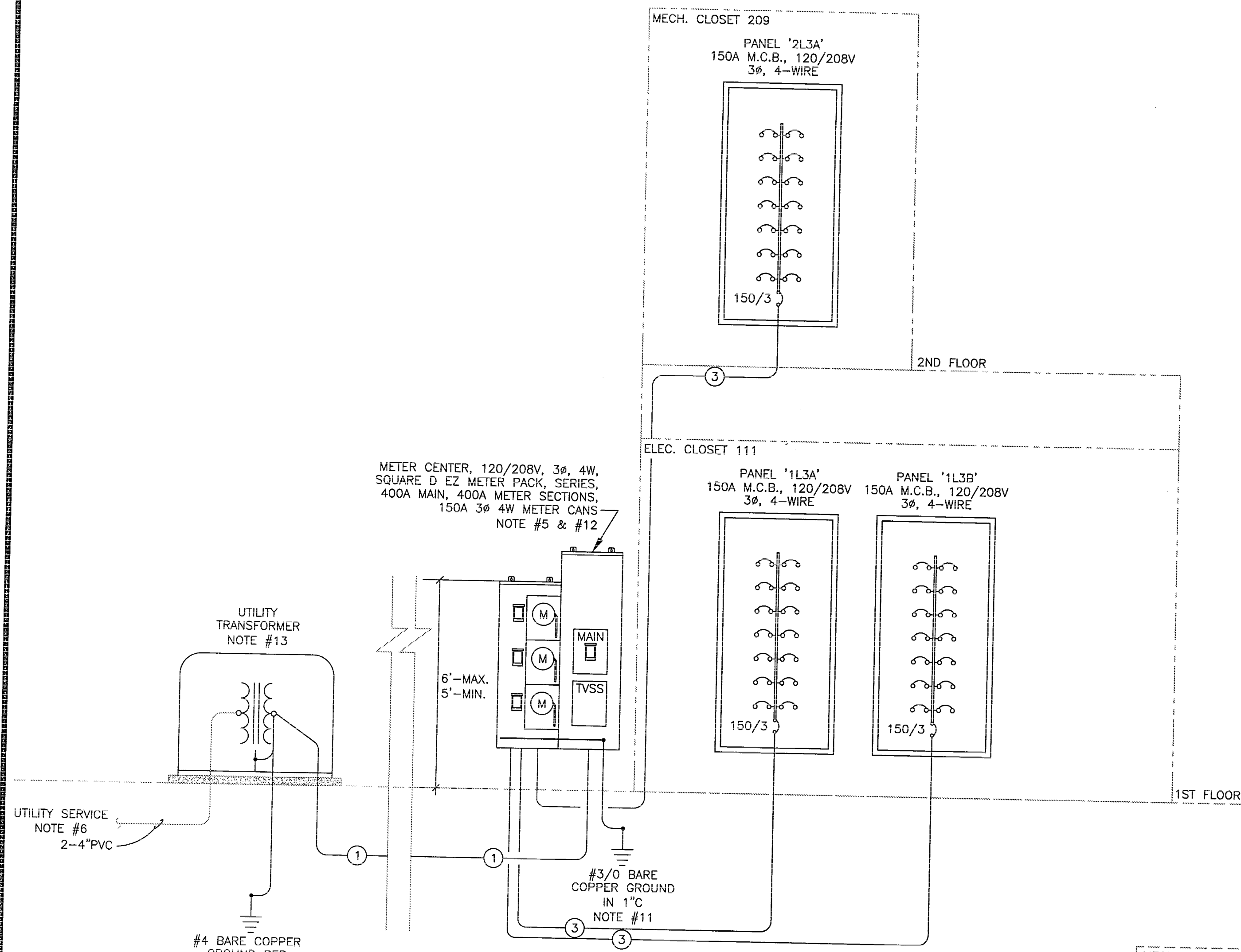


**SERVICE GROUNDING DETAIL**

SCALE: NONE

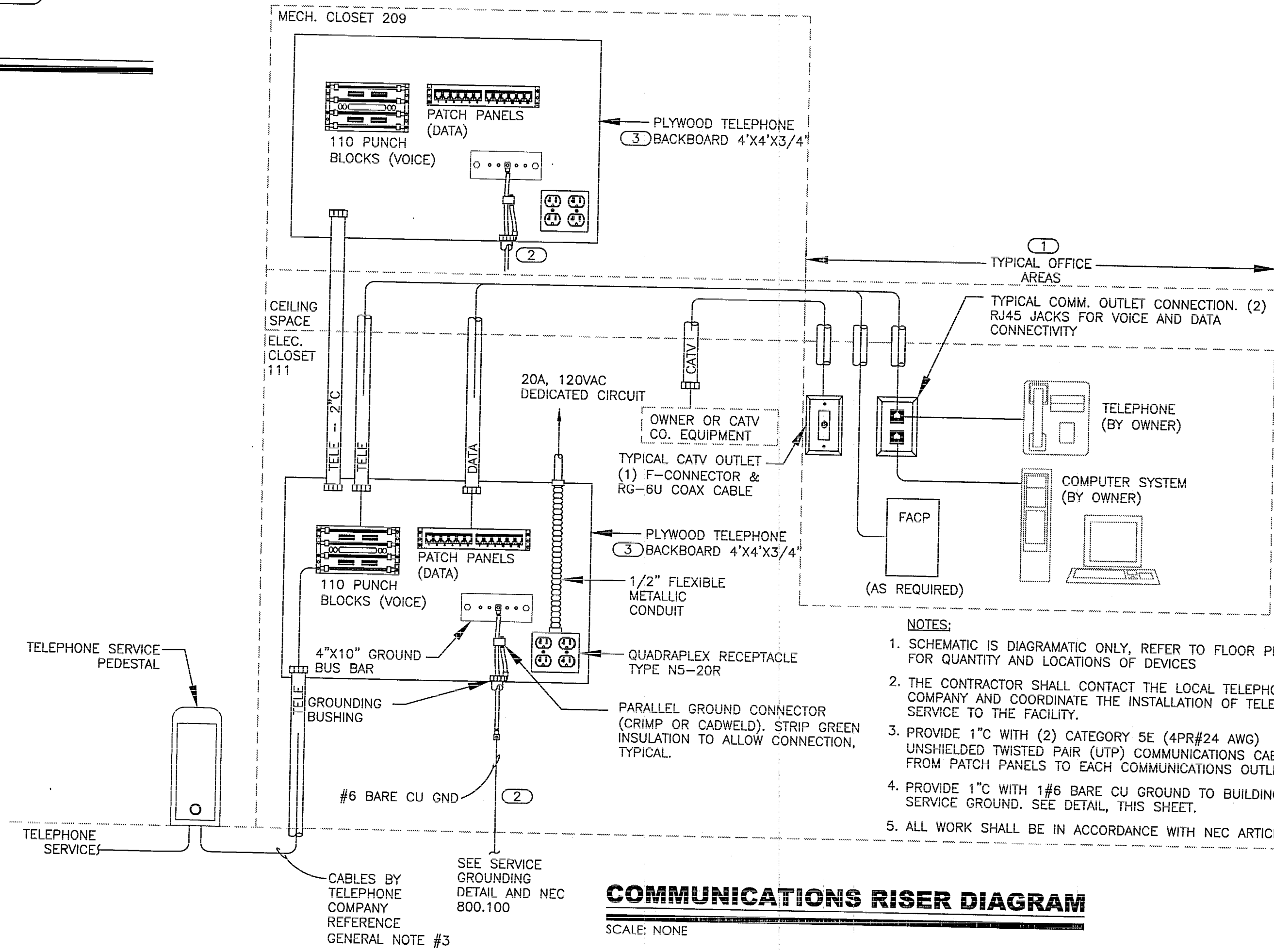
**FEEDER SCHEDULE**

FEEDER NUMBER	QUANTITY OF PARALLEL RUNS	CONDUIT	PHASE		NEUTRAL	EQUIPMENT GROUND
			QUANTITY	SIZE		
1	1	4"	3	#500KCMIL	#500KCMIL	---
2	1	1-1/2"	3	#2	#2	#6
3	1	2"	3	#1/0	#1/0	#6



**ELECTRICAL RISER DIAGRAM**

SCALE: NONE



**COMMUNICATIONS RISER DIAGRAM**

SCALE: NONE

- NOTES:**
- SCHEMATIC IS DIAGRAMATIC ONLY, REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES
  - THE CONTRACTOR SHALL CONTACT THE LOCAL TELEPHONE COMPANY AND COORDINATE THE INSTALLATION OF TELEPHONE SERVICE TO THE FACILITY.
  - PROVIDE 1"Ø WITH (2) CATEGORY 5E (4PR#24 AWG) UNSHIELDED TWISTED PAIR (UTP) COMMUNICATIONS CABLES FROM PATCH PANELS TO EACH COMMUNICATIONS OUTLET.
  - PROVIDE 1"Ø WITH 1#6 BARE CU GROUND TO BUILDING MAIN SERVICE GROUND. SEE DETAIL, THIS SHEET.
  - ALL WORK SHALL BE IN ACCORDANCE WITH NEC ARTICLE 800.

*Mark A. Morley*  
 1-27-09  
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CNN 8696-01  
 RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

ELECTRICAL PANEL  
 SCHEDULES

Drawn by: MAM  
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 Sheet

E8

Sht. 8 of 9 Shts

PANELBOARD: 1L3A FULLY RATED AIC: 10,000 SYSTEM VOLTS: 208 Y/120 V, 3 PH, 4W  
 LOCATION: ELEC 111 MAX VOLTAGE: 208 MAIN CIRCUIT BREAKER: 150 AMP  
 MOUNTING: RECESSED ENCL: NEMA 1 BUS SIZE: 225 AMP

NO	CIRCUIT	AMP	P	LTS.	VA			DESCRIPTION	VOLT AMP			DESCRIPTION	LTS.	VA	CIRCUIT	NO
					RECEP.	OTHER			PH A	PH B	PH C					
1	20	1		900				PH A	PH B	PH C	REC - 101, 102		900	1	20	2
3	20	1		500					1,940		REC - 101, 104		1,440	1	20	4
5	20	1		128						1,208	REC - 100, 103		1,080	1	20	6
7	20	1			1,500						REC - 101, 105, 109		1,440	1	20	8
9	20	1							500		ELEC. WATER COOLER			1	20	10
11	20	1								360	REC - TELECOMM 111		360	1	20	12
13	20	1						720			REC - 110, 111, 112		720	1	20	14
15	20	1							180		REC - EXTERIOR		180	1	20	16
17	20	1								0	SPARE			1	20	18
19	20	1						0			SPARE			1	20	20
21	20	1							0		SPARE			1	20	22
23	20	1								0	SPARE			1	20	24
25	60	3			2,160			2,160			CONDENSING UNIT (CU-2)			1	20	26
27					2,160				7,755		AIR HANDLING UNIT (AHU-2)			2	60	28
29					2,160				7,755					5,595	1	30

CONNECTED LOADS: LTS: 1,528 RECEP: 6,120 OTHER: 19,670

VARIATION FROM BALANCE -16% 14% 2%  
 GRAND TOTAL (CONNECTED LOAD) 27,318  
 CONNECTED LOAD /BUS (IF BALANCED) 9,106  
 CONNECTED AMPS 76  
 DEMAND AMPS 66

PANELBOARD: 1L3B FULLY RATED AIC: 10,000 SYSTEM VOLTS: 208 Y/120 V, 3 PH, 4W  
 LOCATION: ELEC 111 MAX VOLTAGE: 208 MAIN CIRCUIT BREAKER: 150 AMP  
 MOUNTING: RECESSED ENCL: NEMA 1 BUS SIZE: 225 AMP

NO	CIRCUIT	AMP	P	LTS.	VA			DESCRIPTION	VOLT AMP			DESCRIPTION	LTS.	VA	CIRCUIT	NO
					RECEP.	OTHER			PH A	PH B	PH C					
1	20	1		272				PH A	PH B	PH C	REC - 109, 113		1,080	1	20	2
3	20	1		312					1,212		REC - 108, 118		900	1	20	4
5	20	1								1,080	REC - 115, EXT.		1,080	1	20	6
7	20	1						900			REC - 106, 117		900	1	20	8
9	20	1							1,620		REC - 106, 114, 116, EXT.		1,620	1	20	10
11	20	1								0	SPARE			1	20	12
13	20	1						0			SPARE			1	20	14
15	20	1							0		SPARE			1	20	16
17	20	1								0	SPARE			1	20	18
19	20	1						0			SPARE			1	20	20
21	20	1							0		SPARE			1	20	22
23	20	1								0	SPARE			1	20	24
25	60	3			2,160			2,160			CONDENSING UNIT (CU-3)			1	20	26
27					2,160				7,755		AIR HANDLING UNIT (AHU-3)			2	60	28
29					2,160				7,755					5,595	1	30

CONNECTED LOADS: LTS: 584 RECEP: 5,580 OTHER: 17,670

VARIATION FROM BALANCE -44% 33% 11%  
 GRAND TOTAL (CONNECTED LOAD) 23,834  
 CONNECTED LOAD /BUS (IF BALANCED) 7,945  
 CONNECTED AMPS 66  
 DEMAND AMPS 57

PANELBOARD: 2L3A FULLY RATED AIC: 10,000 SYSTEM VOLTS: 208 Y/120 V, 3 PH, 4W  
 LOCATION: MECH 209 MAX VOLTAGE: 208 MAIN CIRCUIT BREAKER: 150 AMP  
 MOUNTING: RECESSED ENCL: NEMA 1 BUS SIZE: 225 AMP

NO	CIRCUIT	AMP	P	LTS.	VA			DESCRIPTION	VOLT AMP			DESCRIPTION	LTS.	VA	CIRCUIT	NO
					RECEP.	OTHER			PH A	PH B	PH C					
1	20	1		468				PH A	PH B	PH C	REC - 202, 203, EXT.		1,260	1	20	2
3	20	1		697					1,957		REC - 202, 205		1,260	1	20	4
5	20	1		500						1,760	REC - 202, 204		1,260	1	20	6
7	20	1		128				1,388			REC - 202, 206		1,260	1	20	8
9	20	1			1,500						REC - 207		1,080	1	20	10
11	20	1								1,440	REC - 211, 217, 218		1,440	1	20	12
13	20	1						720			REC - 213		720	1	20	14
15	20	1							900		REC - 215, 218		900	1	20	16
17	20	1								1,260	REC - 214, 216		1,260	1	20	18
19	20	1						1,080			REC - 201, 209, 210, 212, 218		1,080	1	20	20
21	20	1							360		REC - TELECOMM 209		360	1	20	22
23	20	1								500	ELEC. WATER COOLER			1	20	24
25	60	3			5256			10,728			CONDENSER UNIT (CU-1)			3	60	26
27					5256				10,728		AIR HANDLING UNIT (AHU-1)			5,472	1	28
29					5256				10,728					5,472	1	30

CONNECTED LOADS: LTS: 1,793 RECEP: 11,880 OTHER: 34,184

VARIATION FROM BALANCE -2% 4% -2%  
 GRAND TOTAL (CONNECTED LOAD) 47,857  
 CONNECTED LOAD /BUS (IF BALANCED) 15,952  
 CONNECTED AMPS 133  
 DEMAND AMPS 113

*Mark A. Morley*  
 1-27-08  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, P.E.  
 FLORIDA PE NO. 59813

DO NOT MEASURE DRAWINGS  
 NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES  
 PRIOR TO CONSTRUCTION. SEE GENERAL NOTES

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 REINET

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Issue
PROGRESS SET 02/24/2008

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 FLORIDA PE NO. 59813

MECHANICAL ENGINEER  
 DARYL A. BRYAN, PE  
 FLORIDA PE NO. 66272

CNN 8696-01

RESTORATION OF  
 BREWSTER HOSPITAL  
 Jacksonville, Florida

ELECTRICAL  
 SITE  
 PLAN

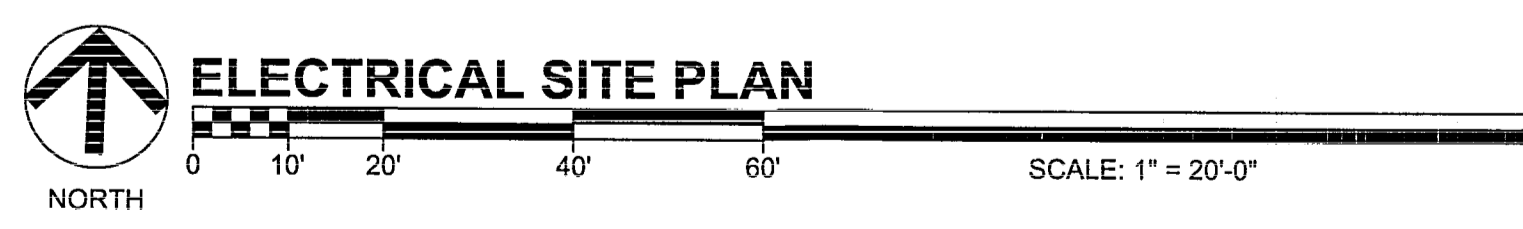
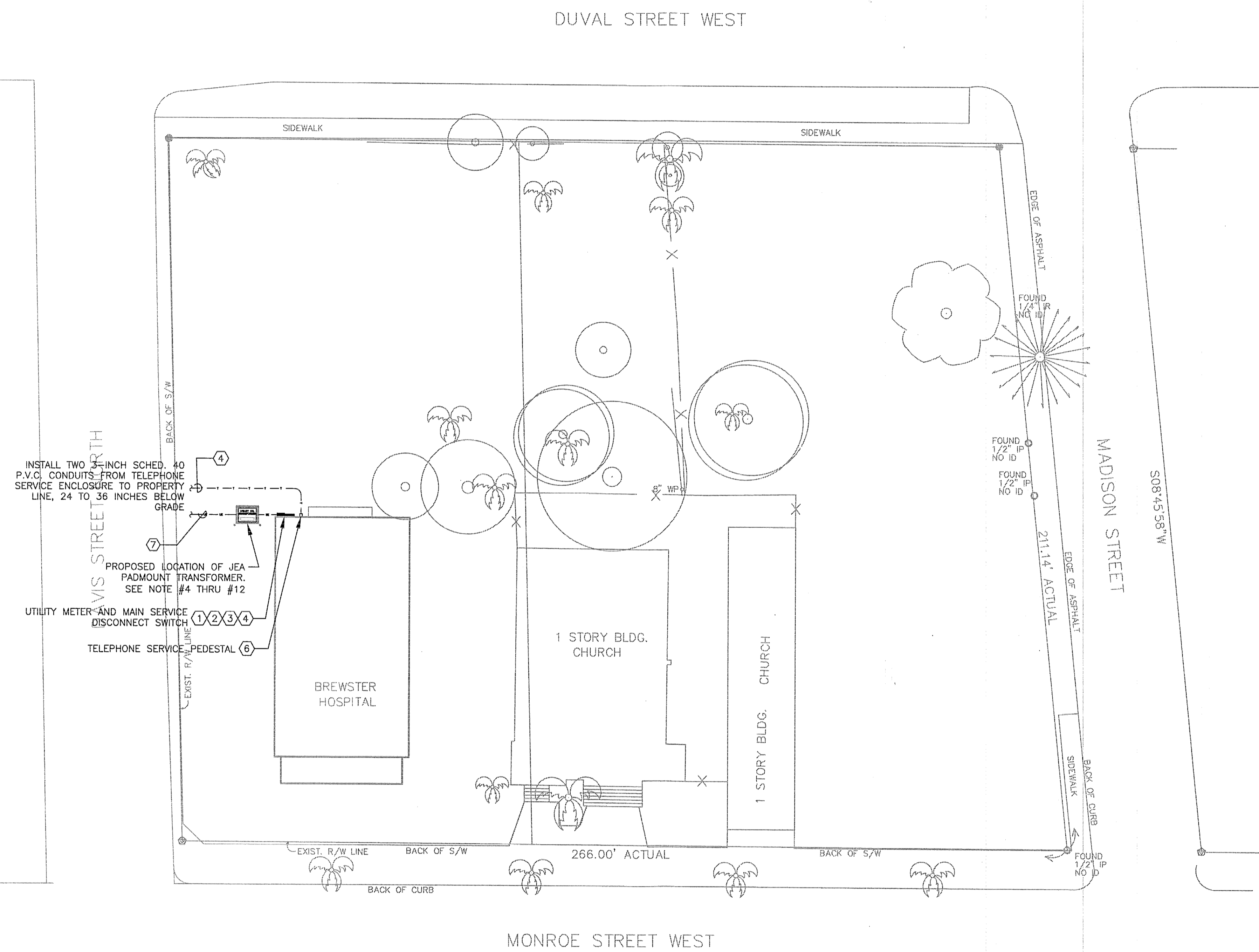
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 Job: 00141-0108  
 Sheet  
 E9  
 Sht. 9 of 9 Shts.

**GENERAL NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND LOCAL BUILDING CODES.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE A/E'S ATTENTION.
- THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- JACKSONVILLE ELECTRIC AUTHORITY (JEA) (904) 665-6000 WILL PROVIDE AND INSTALL THE TRANSFORMER AS REQUIRED, ALL CONDUCTOR CONNECTIONS ON THE LINE SIDE OF THE METER AND CURRENT TRANSFORMERS, WIRING, AND METER SOCKET WHEN INSTALLED ON THE TRANSFORMER. JEA WILL PROVIDE AND INSTALL THE METER.
- THE OWNER/ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL THE TRANSFORMER PAD WHERE REQUIRED, (2) PARALLEL CONDUIT RUNS WITH PULL STRINGS FOR PRIMARY CONDUCTORS. THE CONDUITS SHALL INCLUDE THE ELBOWS TO TURN UP THE POLE. ANY WORK REQUIRED, ABOVE NORMAL CONSTRUCTION PRACTICES, BY JEA WILL BE AT THE EXPENSE OF THE OWNER. ONCE JEA HAS SUCCESSFULLY INSTALLED CABLE IN THE CONDUIT, THE CONDUIT, ALONG WITH ANY FITTINGS, SHALL BECOME THE SOLE PROPERTY OF JEA AT NO CHARGE TO JEA.
- THE OWNER/ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONDUCTORS AND CONNECTIONS ON THE LOAD SIDE OF THE METER. THIS SHALL INCLUDE SERVICE CONDUCTOR WHERE SERVICE IS METERED AT THE TRANSFORMER. JEA WILL FURNISH ITS STANDARD CONNECTORS FOR THE SECONDARY OF THE TRANSFORMER.
- ANY SPECIAL METER SOCKET WHICH IS NOT FURNISHED BY JEA SHALL REQUIRE PRIOR APPROVAL OF JEA.
- (2) 4" GRS ELBOWS, 36" RADIUS, AT RISER POLE AND AT TRANSFORMERS SERVING BUILDING.
- JEA INSPECTION NOTICE:** THE ELECTRICAL CONTRACTOR SHALL GIVE 24 HOURS NOTICE ON ALL ITEMS REQUIRING INSPECTION. CONTACT JEA AT (904) 665-7813. DO NOT PROCEED WITHOUT WRITTEN APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRIC UTILITY COMPANY TO PROVIDE ELECTRICAL SERVICE TO THE FACILITY. THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF JEA RULES AND REGULATIONS FOR ELECTRIC SERVICE.
- THE ELECTRICAL CONTRACTOR SHALL CONTACT SUNSHINE LOCATES AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO DIGGING AS REQUIRED BY FLORIDA STATE LAW.
- REFERENCE ELECTRICAL RISER DIAGRAM, SHEET E7, FOR CONDUIT AND CONDUCTOR SIZES.

**SITE NOTES**

- THE CONTRACTOR/CUSTOMER SHALL INSTALL AND MAINTAIN UL LISTED METER SOCKET AND/OR ENCLOSURES. UTILITY CO. WILL FURNISH, INSTALL, AND MAINTAIN THE REQUIRED METER, METERING DEVICE, AND SECONDARY WIRING BETWEEN THE INSTRUMENT TRANSFORMERS, METER AND METERING DEVICE.
- THE METER SOCKET MUST BE LOCATED WITHIN 10' OF THE CORNER CLOSEST TO THE UTILITY CO./DEVELOPER INSTALLED SERVICE CONDUIT AND ON THE SAME SIDE OF THE STRUCTURE AS THE SERVICE CONDUIT FOR THE LOT.
- THE METER SOCKET MUST BE INSTALLED BETWEEN 4' AND 6' ABOVE GRADE TO THE CENTER OF THE METER SOCKET OPENING. THE 3" SECONDARY CONDUIT SHALL CONTAIN THE 24" RADIUS FOR ALL ELBOWS AND BE BURIED BETWEEN 24" AND 36" BELOW FINISHED GRADE WITH WARNING TAPE 12" BELOW GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRIC UTILITY COMPANY TO PROVIDE ELECTRICAL SERVICE TO THE FACILITY. THE CONTRACTOR SHALL COMPLY WITH ELECTRIC UTILITY COMPANY RULES AND REGULATIONS. GET APPROVAL FROM UTILITY COMPANY PRIOR TO INSTALLATION. THIS COST SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- NOT USED.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TELEPHONE COMPANY TO PROVIDE TELEPHONE SERVICE TO THE FACILITY. THE CONTRACTOR SHALL COMPLY WITH TELEPHONE COMPANY RULES AND REGULATIONS.
- PROPOSED UNDERGROUND PRIMARY ROUTING INSTALL TWO 4-INCH SCHED. 40 P.V.C. CONDUITS WITH 36-INCH RADIUS ELBOWS AT TRANSFORMER PAD AND RISER POLE. MAINTAIN 42-INCH MIN. COVER AND CALL JEA FOR INSPECTION PRIOR TO COVER UP. INSTALL PULL WIRE IN EACH CONDUIT. REFERENCE GENERAL NOTES 11 AND 12, THIS SHEET.



1-27-09  
 ELECTRICAL ENGINEER  
 MARK A. MORLEY, PE  
 FLORIDA PE NO. 59813

UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER, THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY, AND IS NOT VALID FOR CONSTRUCTION.