

BUILDING CODE: FBC 'Florida Building Code'2007,  
 LIFE SAFETY CODE: NFPA 101, 2007 Edition  
 MECHANICAL CODE: FBC 'Florida Building Code - Mechanical', 2007  
 PLUMBING CODE: FBC 'Florida Building Code - Plumbing', 2007  
 ELECTRICAL CODE: NEC 'National Electric Code', 2005  
 GAS FUEL CODE: FBC 'Florida Building Code - Fuel Gas', 2007  
 ACCESSIBILITY:  
 a. Federal ADA, Accessibility Guidelines for Buildings and Facilities (ADAAG)  
 b. FBC 'Florida Building Code', 2007 Edition - Chapter 11, Florida  
 Accessibility Code for Building Construction

1. Occupancy classification: FACTORY INDUSTRIAL F per FBC.
  - FBC section - FACTORY INDUSTRIAL F
2. Physical properties of building: (FBC chapter 5)
  - a. building area: 2,000 GSF, Ground Floor + 2000 GSF SECOND FLOOR = 4000 GSF Total
  - b. grade elevation: 11'± NGVD, FIN. FLR = 12'6"
  - c. building height in feet above grade (top of highest roof): 30'
  - d. building height in stories: 2
  - e. separation distance from exterior walls to property line: rear/north = 25', side/east = 1', front/south = 134'=10" side/west = 33' including 25' drainage and utility easment
3. Type of construction: (FBC chapter 5)
  - a. construction type: FBC-Type II-B (sprinklered)
  - b. max. height: 55' allowed / 30' actual
  - c. max. number of stories: = 2 allowed / 1 + mezzanine actual
  - d. max. floor area: 23,000 SF allowed / 4000 SF actual
  - e. height increase allowance: N/A
4. Detailed constructions requirements: (FBC chapter 6, table 602)
  - a. Fire protection of structural members in hours:
    - party and fire walls - N/A
    - interior bearing walls - NC
    - columns - NC
    - beams, girders, trusses and arches - NC
    - floors, floor/ceiling assemblies - NC
    - roof, roof/ceiling assemblies - NC
    - exterior bearing walls
      - 0 TO 3' = 1
      - 3' TO 10' = 1
      - 10' TO 20' = 0
      - 20' TO 30' = 0
      - over 30' = 0(NL)
  - b. Fire Protection Requirements: (FBC chapter 7, table 704.2.4)
    - exit access corridors - N/A
  - c. Fire wall requirements:
    - extension above roof - N/A
  - d. Protection of exterior wall openings - 0 hours (FBC 705.1.1.2 exception 1)
5. Detailed occupancy requirements: (FBC chapter 10, table 1004.1.2)
  - a. Number of occupants:
    - Office #1 4000 (100 SF / occupant) = 40
    - Total occupant Load: 40 persons.
  - b. Means of egress:
    - max. travel distance (sprinklered facility) - 250'
    - max. dead end corridor - 20'
    - min. egress per person (in.) Level - .2
    - x 24 occupants = 4.8" required, 72" provided (at each UNIT)
    - min. corridor width - 44"
    - min. clear exit door opening - 32"
6. Fire extinguishers:
  1. locations (NFPA 10, table 3.2.1) - 60" max. height
  2. type: group B - FE type 2-A 10-B-C (dry chemical) electrical - FE type 2-C (CO2)
7. Wind load: (FBC chapter 16, structural loads)
  1. basic wind speed - 130 MPH (Sarasota County Ordin. 2001-091)
  2. importance factor - 1.0 ( FBC table 1606)
  3. wind exposure category - see structural drawings
  4. internal pressure co-efficient enclosed bldg - see structural drawings.
  5. cladding wind pressure (per ASCE 7-98) - refer to structural drawings for additional information.
  6. protection of openings - this project is located in the wind-borne debris region. All doors and windows within 60 feet of grade shall comply with impact requirements of SSTD12, ASTM E 1886 and ASTM E 1996, or Miami-Dade PA 201, PA 202 and PA 203 referenced therein as follows:
    - a. Glazed openings located within 30 feet of grade shall meet the requirements of the large missile test.
    - b. Glazed openings located more than 30 feet above grade but less than 60 feet above grade shall meet the provisions of the small missile test. (N/A).

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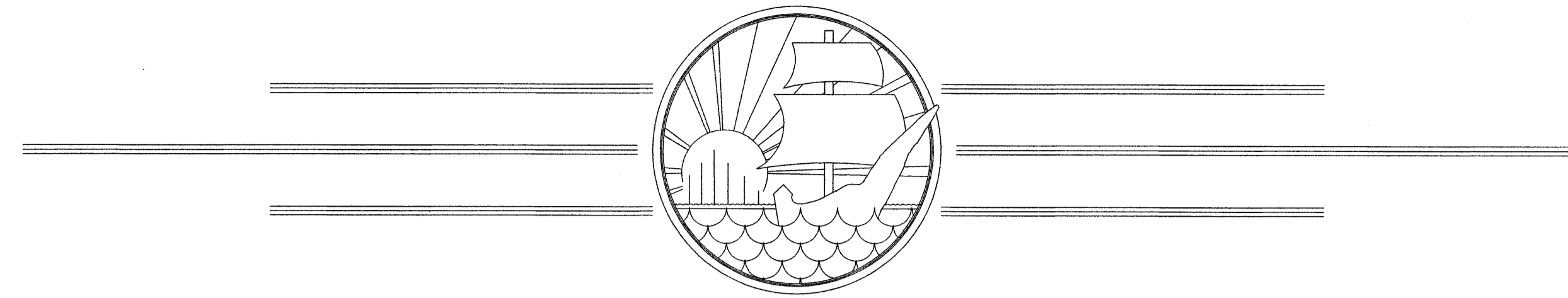
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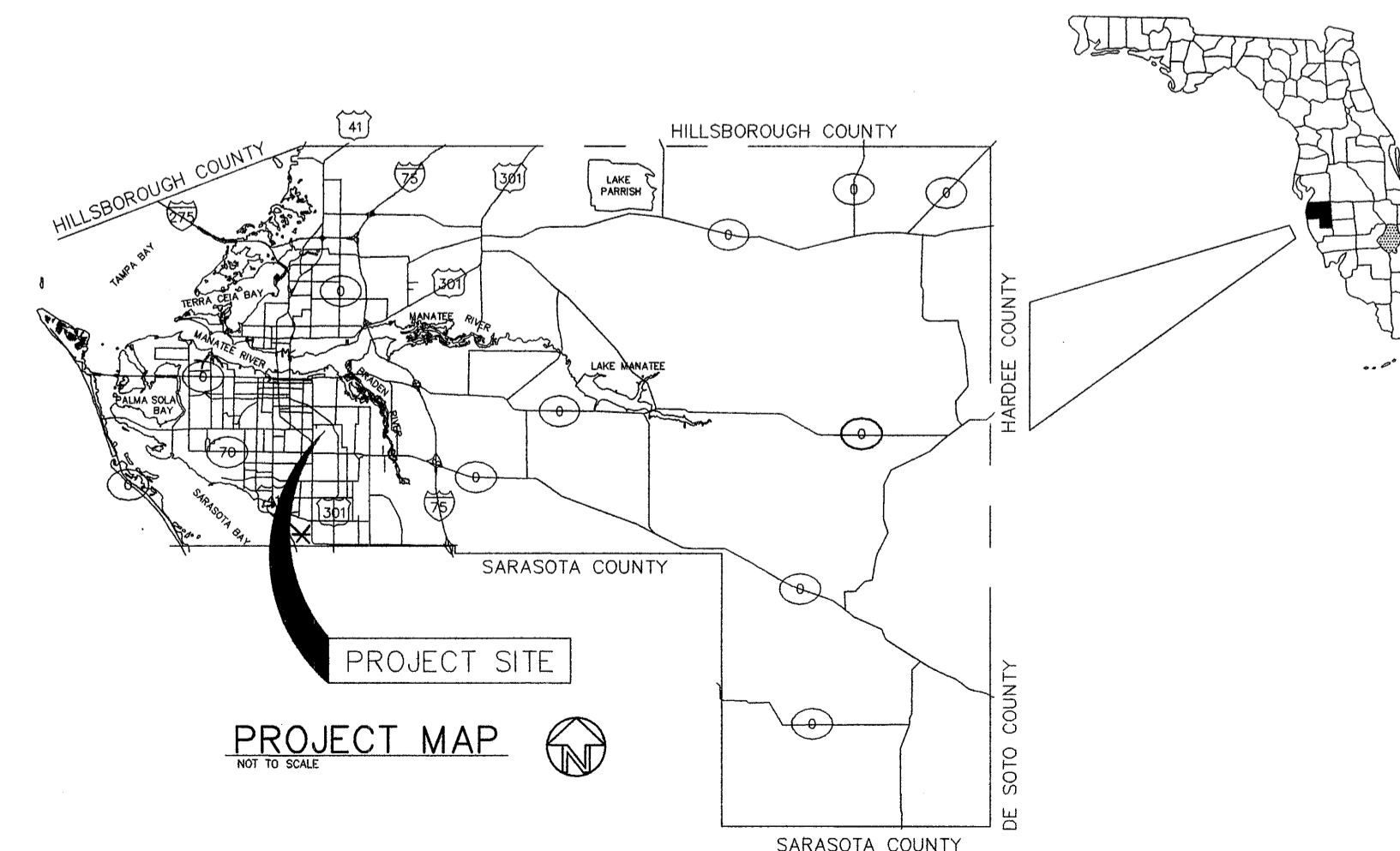
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MANATEE COUNTY, FLORIDA  
 MANATEE FLEET SERVICES  
 1100 26TH AVE. EAST  
 BRADENTON, FLORIDA

# PHASE - II



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REMARKS  
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 MANATEE  
 FLEET SERVICES  
 1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yahuda Inbar AIA  
 Inbar architect AIA

Checked by  
 Al Meronek

Date  
 03-17-09

Alan John Meronek  
 AR 91853

Expires 2-28-2011

Scale

Set

Drawing Number

**A0.1**

## GENERAL NOTES:

- THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED HIM IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY INBAR DESIGN AIA PA OF ANY DISCREPANCIES. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES AND ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE. DISCREPANCIES SHALL BE REPORTED TO INBAR DESIGN AIA PA PRIOR TO COMMENCEMENT OF WORK IN THE AREA IN QUESTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN OMITTED THEREBY.
- OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK, WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY OR MISDESCRIBED DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND/OR SAMPLES AS REQUESTED IN THESE SPECIFICATIONS. THESE SHALL BE SUBMITTED TO INBAR DESIGN AIA PA FOR REVIEW AND COMMENT PRIOR TO PROCUREMENT OF INDIVIDUAL ITEM OR ASSEMBLY, WHERE SUBMITTALS ARE NOT SPECIFICALLY REQUESTED. THESE SHALL BE PROVIDED IF THERE ARE ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- SUBSTITUTIONS: IN THE EVENT THAT A SPECIFIED ITEM CANNOT BE DELIVERED TO THE JOB SITE AND INCORPORATED INTO THE WORK SO AS TO CAUSE NO DELAY, THEN THE CONTRACTOR MAY REQUEST SUBSTITUTION. SUCH SUBSTITUTION SHALL BE OF EQUAL MONETARY VALUE, OR AN ADJUSTMENT IN THE CONTRACT PRICE SHALL BE MADE. OWNER APPROVAL REQ'D.
- BUILDER TO PROVIDE 10% CONTINGENCY OF CONSTRUCTION COST THIS CONTINGENCY SUM WILL BE USED FOR ARCHITECT APPROVED CHANGES
- THE OWNER AND CONTRACTOR SHALL HOLD HARMLESS THE ARCHITECT FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERRORS OR OMISSIONS IN THE ARCHITECT'S DRAWINGS AND THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
- THE ARCHITECT SHALL BE THE INTERPRETER OF THE CONTRACT DOCUMENTS. DOCUMENTS SHOW AN OVERVIEW OF THE WORK REQUIRED UNDER THIS CONTRACT THE DRAWINGS GENERALLY SHOW THE INTENT OF THE OVERALL COMPLEXITY AND CONCEPT, AND DO NOT NECESSARILY SHOW ALL DETAILS AND CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND MAINTAINING ALL EXISTING SETBACKS, EASEMENTS, AND ANY DEED RESTRICTIONS.

## GENERAL NOTES:

- CONTRACTOR SHALL, DURING CONSTRUCTION, PROVIDE SURFACE SITE DEWATERING TO STOP SURFACE WATER FROM RUNNING INTO FOOTINGS TRENCHES AND OTHER EXCAVATIONS. ALL WORK DAMAGED BY RAIN SHALL BE CORRECTED TO THE ORIGINAL REQUIREMENTS OF THE CONTRACT DOCUMENTS WITHOUT ADDED COST TO THE CONTRACT.
- CONTRACTOR SHALL PREPARE WALLS TO MEET ALL REQUIREMENTS OF THE FINISH INSTALLER AND MANUFACTURER TO ENSURE THAT ALL MATERIAL AND INSTALLATION WARRANTIES WILL BE IN EFFECT.
- ALL FLASHING IS TO BE OVERLAPPED AT JOINTS 6" MINIMUM AND SEALED WATERTIGHT.
- ARCHITECT SHALL BE PRESENT TO OBSERVE ALL FLASHING INSTALLATION PRIOR TO BEING COVERED BY NEW CONSTRUCTION.
- THE GENERAL CONTRACTOR, SUBCONTRACTORS, AND ALL EMPLOYEES ON THIS PROJECT SHALL AT NO TIME SCALE THE DRAWINGS TO DETERMINE DISTANCES NOT DIMENSIONED ON THE DRAWINGS. IF FURTHER DIMENSIONING IS REQUIRED IT SHALL BE REQUESTED IN WRITING BY THE GENERAL CONTRACTOR AND ANSWERED IN WRITING BY THE ARCHITECT. ALL DIMENSIONS ARE GIVEN TO THE FACE OF C.M.U., FACE OF METAL STUD, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES, PITCH, AND OTHER CONDITIONS BY TAKING MEASUREMENTS PRIOR TO ORDERING MATERIALS OR DOING WORK. DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR ADDITIONAL INSTRUCTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE MEASUREMENTS. NO CONSIDERATION WILL BE GIVEN TO ANY CLAIM BASED ON DIFFERENCES BETWEEN THE DRAWINGS OR SPECIFICATIONS AND ACTUAL MEASUREMENTS.
- CONTRACTORS ARE REMINDED THAT COORDINATING THE ROUTING OF THEIR WORK WITH OTHER TRADES IS ESSENTIAL. ANY EXPENSE FOR THE REMOVAL AND RELOCATION SHALL BE BORNE BY THE CONTRACTOR.
- WHERE A DETAIL OR SECTION IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS OR LOCATIONS.
- IN ROOMS WITH EXPOSED STRUCTURE CEILING, WALLS ARE TO EXTEND TO THE ROOF UNLESS OTHERWISE NOTED.
- ALL WOOD MEMBERS IN CONTACT WITH CONCRETE, MASONRY, OR IN WET LOCATIONS, INCLUDING FRAMING, BLOCKING, AND PLYWOOD SHALL BE PRESSURE TREATED.
- AT INTERIOR METAL STUD PARTITIONS NOT EXTENDING TO THE ROOF DECK, BRACE TOP WITH STUD FRAMING TO STRUCTURE AS REQUIRED TO PROVIDE STABLE AND SECURE PARTITION.
- ALL FURRINGS, EITHER FOR WALLS OR CEILINGS, TO CONCEAL HVAC, PLUMBING, OR ELECTRICAL WORK ARE NOT SHOWN. TO CONCEAL HVAC, PLUMBING, ELECTRICAL OR OTHER TRADES WORK, CONTRACTOR SHALL COORDINATE WITH RESPECTIVE TRADE AND PROVIDE FURRING AS REQUIRED USING TYPICAL FURRING DETAILS SHOWN FOR SIMILAR OR LIKE CONDITIONS.
- ALL ROOF PENETRATIONS SHALL BE CUT AND FLASHED BY ROOFING CONTRACTOR. CONTRACTOR SHALL COORDINATE THIS WORK TO ENSURE PROPER FLASHING AND WEATHERTIGHTNESS.
- AT GYPSUM WALLS PROVIDE WOOD BLOCKING AS REQUIRED TO SECURE DOOR STOPS AND OTHER ITEMS TO WALL.
- A DETAIL FOR EVERY CONDITION IS NOT PROVIDED, THERE ARE ADEQUATE DETAILS FOR SIMILAR AND LIKE CONDITIONS THAT ARE TYPICAL IN NATURE AND SHALL BE USED AS GUIDES FOR DETERMINING HOW A SPECIFIC CONDITION SHOULD BE CONSTRUCTED THAT WILL PRODUCE RESULTS ACCEPTABLE TO THE ARCHITECT.
- THE USE OF MATERIAL AND REFERENCE SYMBOLS FOR MATERIAL IDENTIFICATION AND FOR KEYING LOCATIONS WHERE SECTIONS AND DETAILS ARE DRAWN ARE PROVIDED AS A MATTER OF CONVENIENCE. THE LACK OF USE OF A MATERIAL SYMBOL OR REFERENCE SYMBOL FOR ANY LOCATION SHALL NOT DELETE THE REQUIREMENT FOR CONSTRUCTION OF THAT CONDITION TO BE IN ACCORDANCE WITH THE DETAILS OR SECTIONS THAT APPLY TO OR ARE LIKE OR SIMILAR TO THAT CONDITION.

## NOTES:

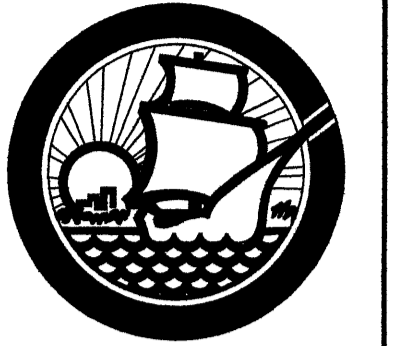
- ALL MATERIALS & EQUIPMENT TO BE U.L. APPROVED
- ALL EXHAUST FANS TO VENT TO THE OUTSIDE
- MEN'S & WOMEN'S REST ROOMS SHALL HAVE MAXIMUM WATER TEMPERATURE OF 110°F. (INSTALL MIXING VALVE)
- COMPLY WITH PAINT MANUFACTURE OF SURFACE PREPARATION SPECIFICATIONS @ EXISTING & NEW SURFACES.
- PROVIDE HANDICAP ACCESSIBLE ROUTE W/ 1/2" MAX. STEP TO ENTRANCES TO ALL ACCESSIBLE SPACES ON SITE AND WITHIN THE BUILDING PER FBC 105.1

## ABBREVIATIONS

& L T @ E L # (E)	AND ANGLE CHANNEL AT CENTER LINE DIAMETER OR ROUND PERPENDICULAR POUND OR NUMBER EXISTING	F	FA FIRE ALARM FD FLOOR DRAIN FDD FIRE DEPARTMENT CONNECTION FDDC FIRE DEPARTMENT CONNECTION CABINET FOND FOUNDATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FEN FEMALE FHS FIRE HOSE CABINET FHM.S FLAT HEAD MACHINE SCREW FHR FIRE HOSE RACK FHW.S FLAT HEAD WOOD SCREW FHY FIRE HYDRANT FIN FINISH FL FLOW LINE FLASH FLASHING FLX FLEXIBLE FLR FLOOR FLUR FLUORESCENT FRAMED MIRROR FMR FRAMED MIRROR AND SHELF FLMIR.SH FACE OF FINISH F.F. FACE OF FINISH F.M. FACE OF MASONRY F.S. FACE OF STUDS F.S.S. FULL SIZE FT. FOOT (FEET) FTG. FOOTING FLRR FURRED FUT FUTURE F.W.C. FABRIC WALL COVERING	O	OA OVER ALL O/A OUTSIDE AIR OC ON CENTER OD OFF OFF OFFICE OPNG OPENING OPP OPPOSITE OPPH OPPOSITE HAND OZ OUNCE
A	AB. ANCHOR BOLT AD.S ACRYLONITRILE BUTADIENE STYRENE ABV. ABOVE A/C AIR CONDITIONING ACAS.AS ACoustical AREA DRAIN AD. ADDENDUM AFF. ABOVE FINISH FLOOR AGG. AGGREGATE AHLU AIR HANDLING UNIT ALLOW. ALLOWANCE ALT. ALTERNATE ALUM. ALUMINUM ANDP. ANODIZED APX. APPROXIMATE ARCH. ARCHITECT (URAL) ASPH. ASPHALT AUT.O. AUTOMATIC AUX. AUXILIARY AVG. AVERAGE	G	GA GALV. GB GALVANIZED GI. GALVANIZED IRON GL. GLASS GR. GRADE GYP. GYPSUM	P	PBD. PARTICLE BOARD P.C.C. PRE-CAST CONCRETE PL. PLATE PLAM. PLASTIC LAMINATE PLAS. PLYWOOD FLYWD. FLYWOOD P.N.L. PANEL(ING) POL. POLISH PR. PAIR P.S.F. POUNDS PER SQUARE FOOT P.S.H. PURSE SHELF P.S.I. POUNDS PER SQUARE INCH P.T. PRESSURE TREATED P.T.D. PAINTED PTN. PARTITION P.V.C. POLYVINYL CHLORIDE P.V.M.T. PAVEMENT
B	BD. BOARD BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING BM. BENCH MARK BOT. BOTTOM B.P.L. BEARING PLATE BSMT. BASEMENT BUR. BUILT-UP ROOFING	H	H. HIGH H.B. HOSE BID H.C. HOLLOW CORE HDWD. HARDWOOD HDWE. HARDWARE HM. HORIZONTAL HORIZ. HORIZONTAL HP. HIGH POINT HR. HAIR HT. HEIGHT	Q	QT. QUARRY TILE QTR. QUARTER
C	CAB. CABINET CB. CATCH BASIN CCTV. CLOSED-CIRCUIT TELEVISION CEM. CEMENT CER. CERAMIC CFLASH. COUNTER FLASHING CFM. CUBIC FEET PER MINUTE CG. CORNER GUARD CGH. COAT HOOK CI. CAST IRON CJ. CONTROL JOINT CLG. CEILING CLO. CLOSET CLR. CLEAR C.M.U. CONCRETE MASONRY UNIT COL. COLUMN COMP. COMPANMENT CONC. CONCRETE CONSTR. CONSTRUCTION CONT. CONTINUOUS CPT. CARPET CR. CURTAIN ROD CS. COUNTERSINK CT. CERAMIC TILE CUFT. CUBIC FEET (FOOT) CUI. CUBIC INCH CUI.YD. CUBIC YARD CX. CONNECTION	I	ID. INSIDE DIAMETER IN. INCH INCL. INCLUDE INSUL. INSULATION INT. INTERIOR INTM. INTERMEDIATE INV. INVERT	R	R. RISER OR RADIUS R/A RETURN AIR RAD. RADIUS R/BF. RAIN REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCED REQ. REQUIRED RESIL. RESILIENT REVISE. REVISE RM. ROOM R.O. ROUGH OPENING R.W.L. RAIN WATER LEADER
D	DBL. DOUBLE DEPT. DEPARTMENT DET. DETAIL DF. DRINKING FOUNTAIN DH. DOUBLE HUNG DIAG. DIAGONAL DIA. DIAMETER DIM. DIMENSION DIV. DIVISION DN. DOWN DO. DOOR OPENING DR. DOOR D.S. DOWNSPOUT DNG. DRAWING DWR. DRAWER	J	JAN. JANITOR JT. JOINT	S	S. SOUTH S/A SUPPLY AIR SAN. SANITARY S.C. SOLID CORE SCHED. SCHEDULE SD. SOAP DISPENSER SD. SECTION SH. SHELF SHR. SHOWER SHT. SHEET SIM. SIMILAR SND. SANITARY NAPKIN DISPENSER SNR. SANITARY NAPKIN RECEPTACLE SNT.D. SANITARY NAPKIN-TAMPON DISPENSER SQ. SQUARE SS. SEE TO DETERMINE SSK. STAINLESS STEEL SS. STEEL STA. STATION STD. STANDARD STR. STORAGE STR. STRUCTURE SUR. SURFACE SUSP. SUSPENDED SYM. SYMMETRICAL SYS. SYSTEM
E	EA. EAST E/A EACH ED. EXHAUST AIR EPD. ELECTRICAL HAND DRYER ELF.S. EXTERIOR INSULATION & FINISH SYSTEM EJ. EXPANSION JOINT ELEV. ELEVATION ELEC. ELECTRICAL ELEV. ELEVATION EMER. EMERGENCY ENCL. ENCLOSURE EQ. EQUAL EQFT. EQUIPMENT EW.C. ELECTRICAL WATER COOLER EXH. EXHAUST EXP. EXPANSION EXPO. EXPOSED EXIST'g EXISTING EXT. EXTERIOR	K	KIT. KITCHEN K.O. KNOCK OUT	T	T. TREAD T.B. TOWEL BAR T.C. TOP OF CURB TD. TOWEL DISPENSER TDR. TOWEL DISPENSER-RECEPTACLE TEL. TELEPHONE TEL. TEMPERED TERR. TERRAZZO T&G. TONGUE AND GROOVE THER. THERMAL TRK. THICKNESS THRES. THRESHOLD T.O.P. TOP OF PAVEMENT TRD. TREATED TOS. TOP OF SLAB T.O.STL. TOP OF STEEL T.P. TOILET TISSUE DISPENSER TV. TELEVISION T.O.W. TOP OF WALL TYP. TYPICAL
		L	LAP. LABORATORY LAM. LAMINATE LAV. LAVATORY LB. POUND LKR. LOCKER LLH. LONG LEG HORIZONTAL LLV. LONG LEG VERTICAL LP. LOW POINT LT. LIGHT LTL. LINTEL LVL. LEVEL LVR. LAUNDER	U	UR. URINAL UNO. UNLESS NOTED OTHERWISE
		M	MATL. MATERIAL MAX. MAXIMUM MB. MOP BASIN M.D.H. MOP-BROOM HOLDER MC. MEDICINE CABINET MACH. MACHINE MECH. MECHANICAL MED. MEDIUM MEMB. MEMBRANE METL. METAL MEZZ. MEZZANINE MFR. MANUFACTURE MH. MAN HOLE MIN. MINIMUM MIR. MIRROR MISG. MISCELLANEOUS MOLDG. MOLDING M.O. MASONRY OPENING MR. MOISTURE RESISTANT MNTD. MOUNTED MNTG. MOUNTING MULL. MULLION	V	V.C.T. VINYL COMPOSITION TILE VERT. VERTICAL VEST. VESTIBULE V.I.F. VERIFY IN FIELD VNR. VENEER V.W.C. VINYL WALL COVERING
		N	N. NORTH N.C. NOT IN CONTRACT NO. NUMBER NOM. NOMINAL NT.S. NOT TO SCALE	W	W. WEST W/W. WITH WALL. WALL ASH URN W.C. WATER CLOSET WD. WOOD WIN. WINDOW W/O. WITHOUT WP. WATERPROOF WREG. WASTE RECEPTACLE WR. WATER RESISTANT W.SCT. WAINSCOT WT. WEIGHT W.W.M. WELDED WIRE MESH

## GRAPHICS LEGEND

	CONCRETE
	CONCRETE BLOCK (PLAN)
	CONCRETE BLOCK (SECTION)
	R= 19 ROOF SPRAY POLYURETHANE BIOBASED 501 # OPEN CELL INSULATION
	ARCHITECTURAL GRADE FINISHED WOOD (SECTION OR PLAN)
	WOOD FRAMING LUMBER (SECTION)
	PLYWOOD (SECTION)
	RIGID BOARD TYPE INSULATION
	METAL (SECTION)
	EARTH
	GRAVEL/FILL
	REMOVE EXISTING FRAME WALL
	EXISTING FRAME WALL TO REMAIN
	NEW FRAME WALL
	EXISTING CMU WALL TO REMAIN (REPAIR)
	NEW CMU WALL
	SOLID LINE. ALL ITEMS, EXCEPT AS NOTED BELOW.
	DASHED LINE. ITEMS HIDDEN, ABOVE, OR TO BE REMOVED.
	CENTER LINE OF COLUMNS, OR OTHER OBJECT AS NOTED.
	LEASE LINE OR PROPERTY LINE.
	BREAK LINE. MATERIAL TO CONTINUE.
	+ 73.0' EXISTING ELEVATION 73.0' TW 85.0' TOP OF WALL ELEVATION TW 85.0' TC 85.0' TOP OF CONCRETE TC 85.0' TP 74.0' TOP OF PAVEMENT TP 74.0' ELEV. 102'-0" LEVEL LINE OR ELEVATION LINE ELEV. 102'-0"
	REVISION NUMBER DESCRIBED IN REVISION BLOCK
	CROSS OR WALL SECTION 1 - DETAIL NUMBER A-8 - SHEET NUMBER WHERE DRAWN
	DETAIL 2 - DETAIL NUMBER A-7 - SHEET NUMBER WHERE DRAWN
	ELEVATION 1 - DETAIL NUMBER A-3 - SHEET NUMBER WHERE DRAWN
	DIMENSION INDICATING MASONRY OPENINGS VERIFY IN FIELD DOOR SYMBOL - SEE DOOR SCHEDULE
	ROOM NAME ROOM NUMBER
	TOILET ACCESSORY - SEE SCHEDULE
	WALL TYPE - SEE WALL TYPE SCHEDULE.
	HOLLOW METAL FRAMES - SEE DOOR SCHEDULES
	ALUM. CURTAIN WALL ASSEMBLIES - SEE WINDOW ELEV SCHEDULES
	ALUMINUM WINDOWS - SEE WINDOW ELEV SCHEDULE
	KEYED TO GENERAL NOTE



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Inbar architect AIA

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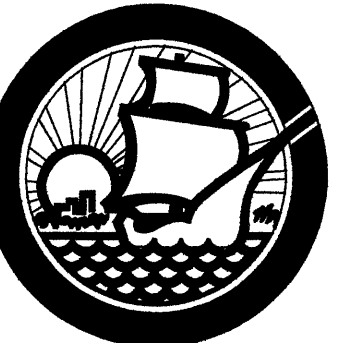
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A0.2

ABBREVIATIONS



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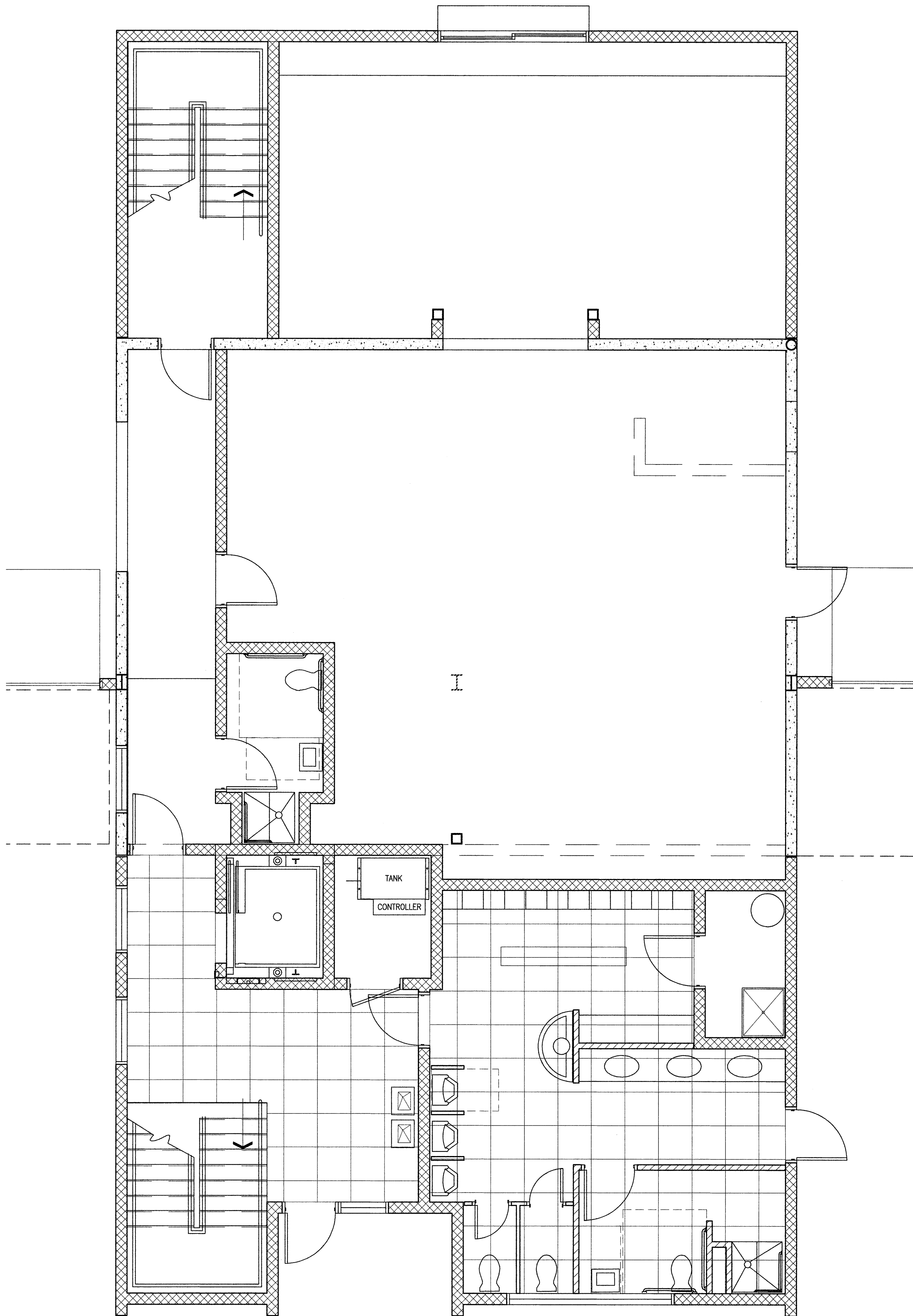
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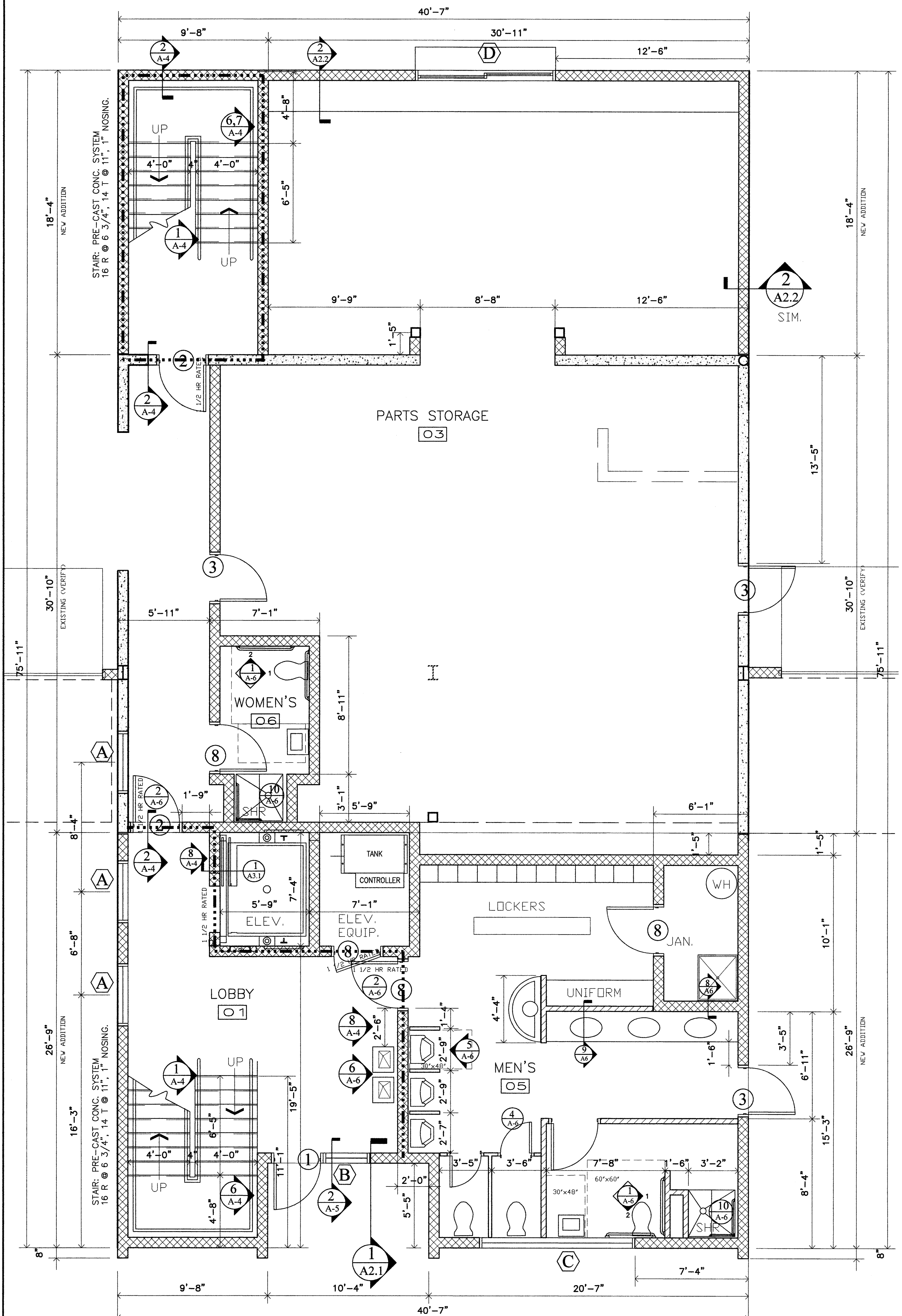
Scale

Set

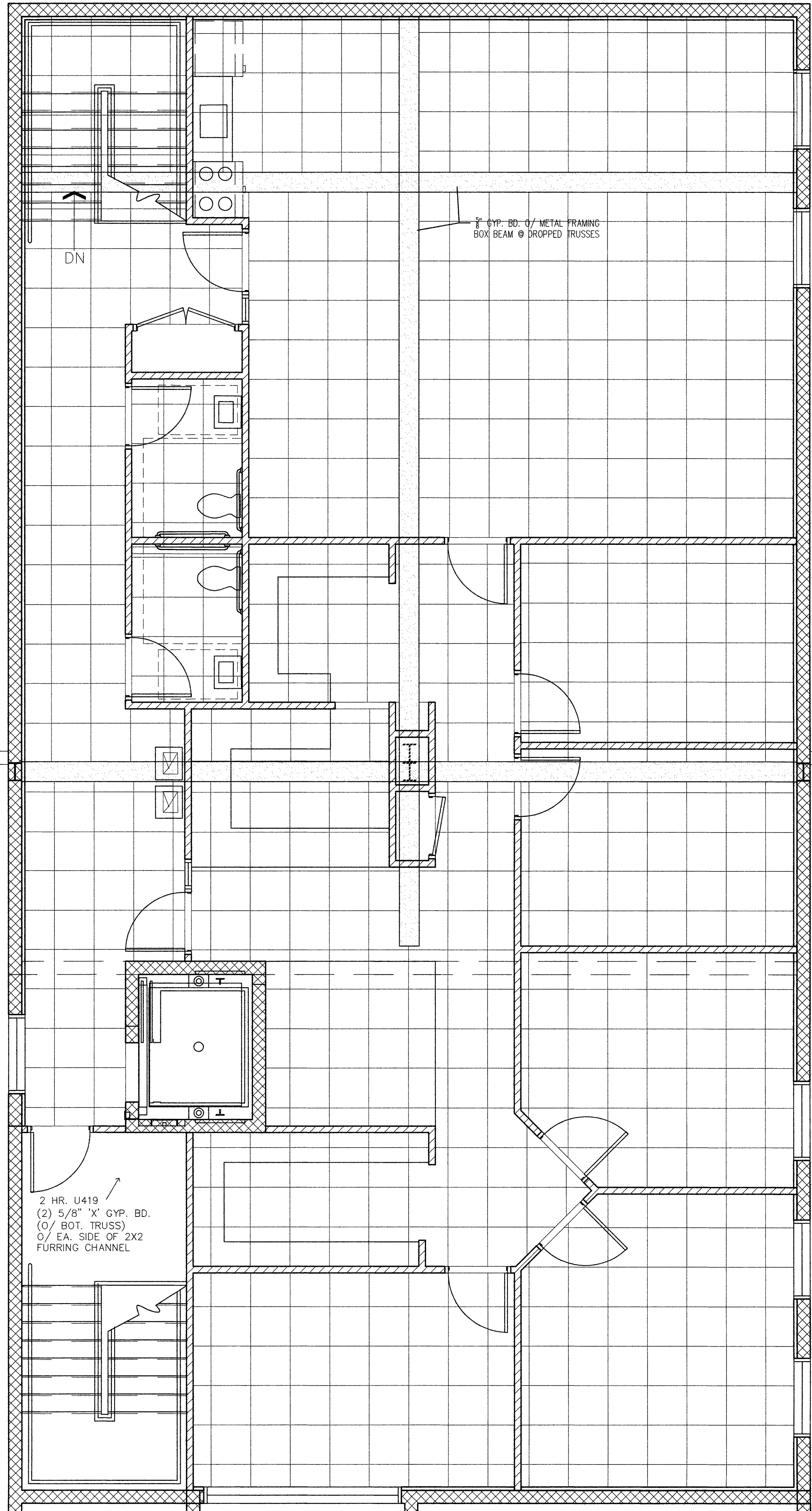
Drawing Number



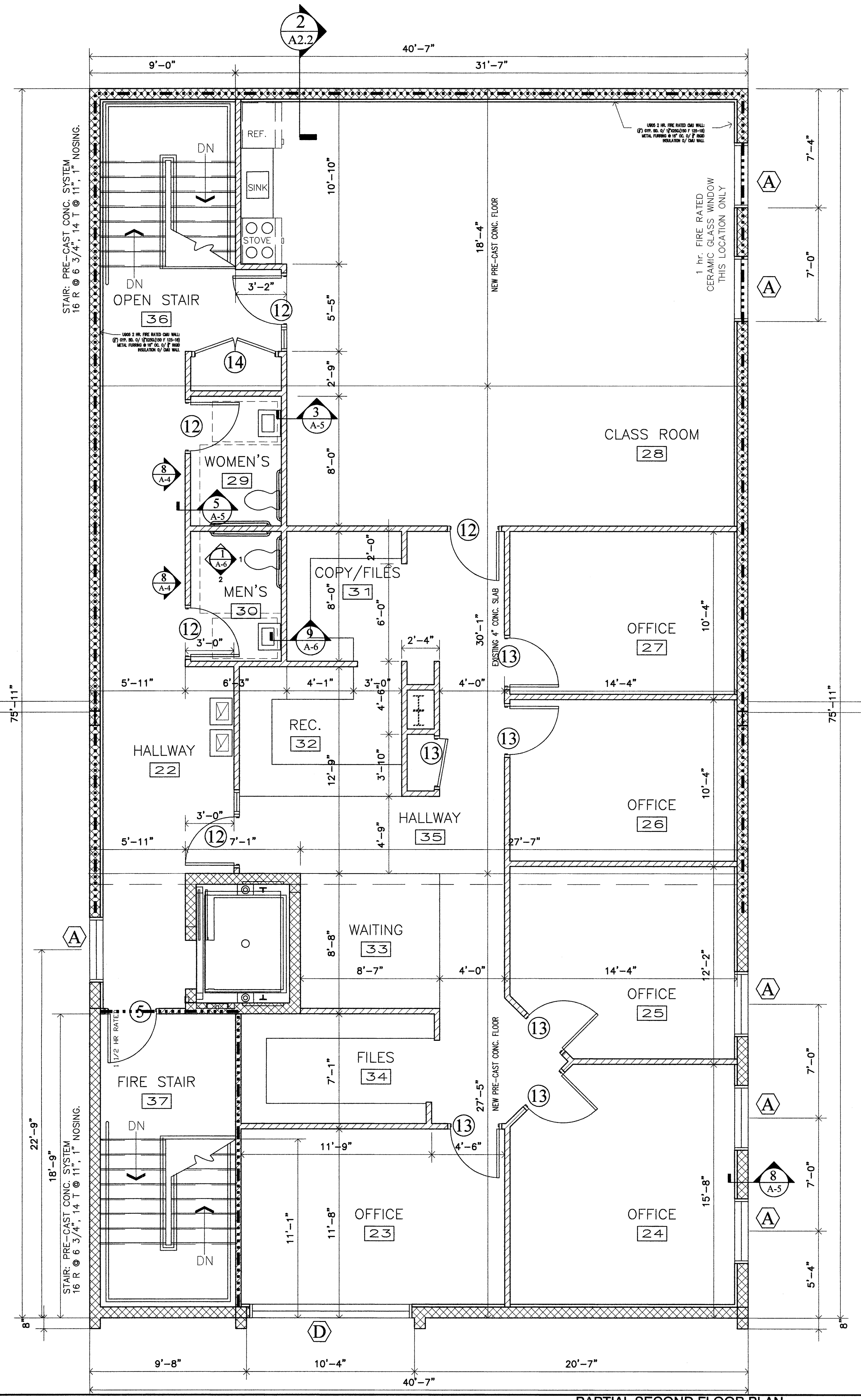
PARTIAL FIRST FLOOR CEILING PLAN  
1/4" = 1'-0"



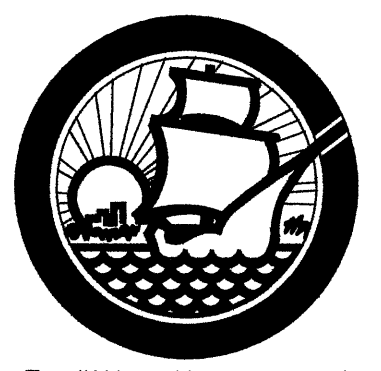
PARTIAL FIRST FLOOR PLAN  
1/4" = 1'-0"



**PARTIAL SECOND FLOOR CEILING PLAN**  
 1/8" = 1'-0"



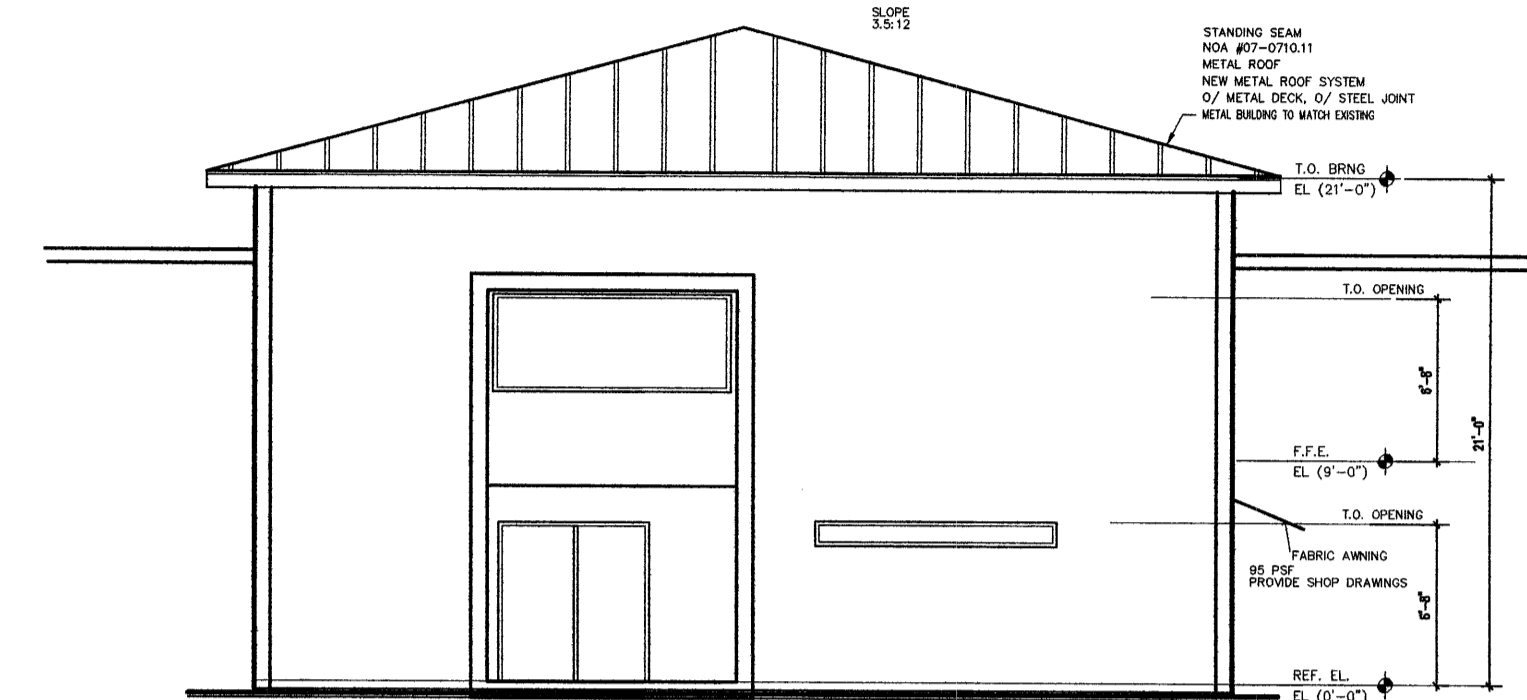
**PARTIAL SECOND FLOOR PLAN**  
 1/4" = 1'-0"



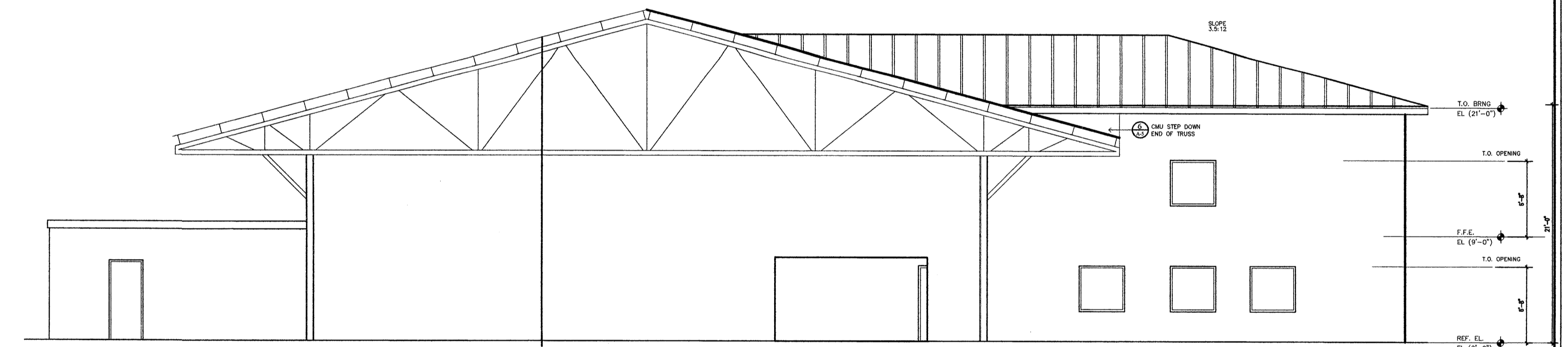
REMARKS	DATE	REV.
FINAL PLAN APPROVAL:		

**PHASE - II**  
**MANATEE**  
**FLEET SERVICES**  
 1100 26TH AVE. EAST, BRADENTON, FLORIDA

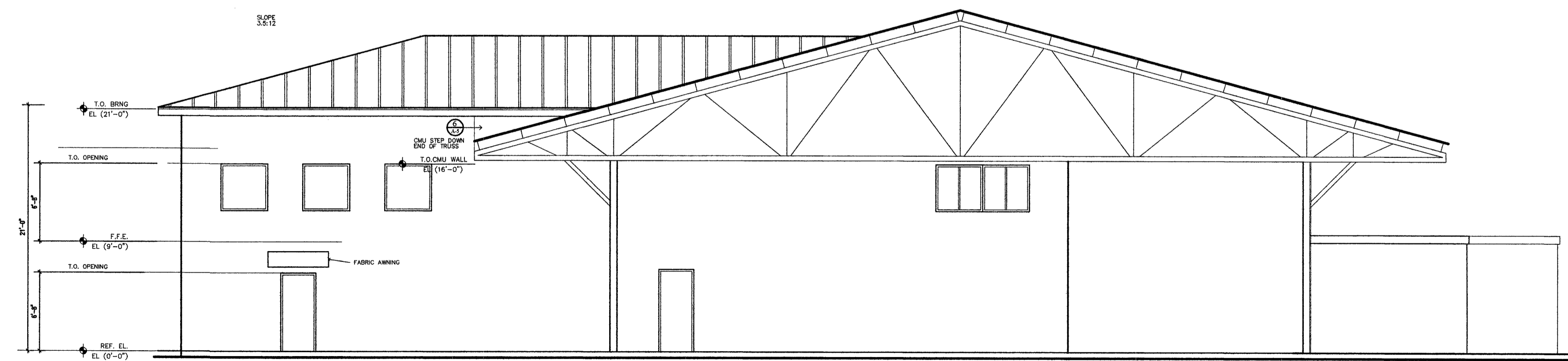
Project Number
Drawn by: Yehuda Inbar AIA Inbar architect AIA
Checked by: Al Meronek
Date 03-17-09
Alan John Meronek AR 91853
Expires 2-28-2011
Scale
Set
Drawing Number



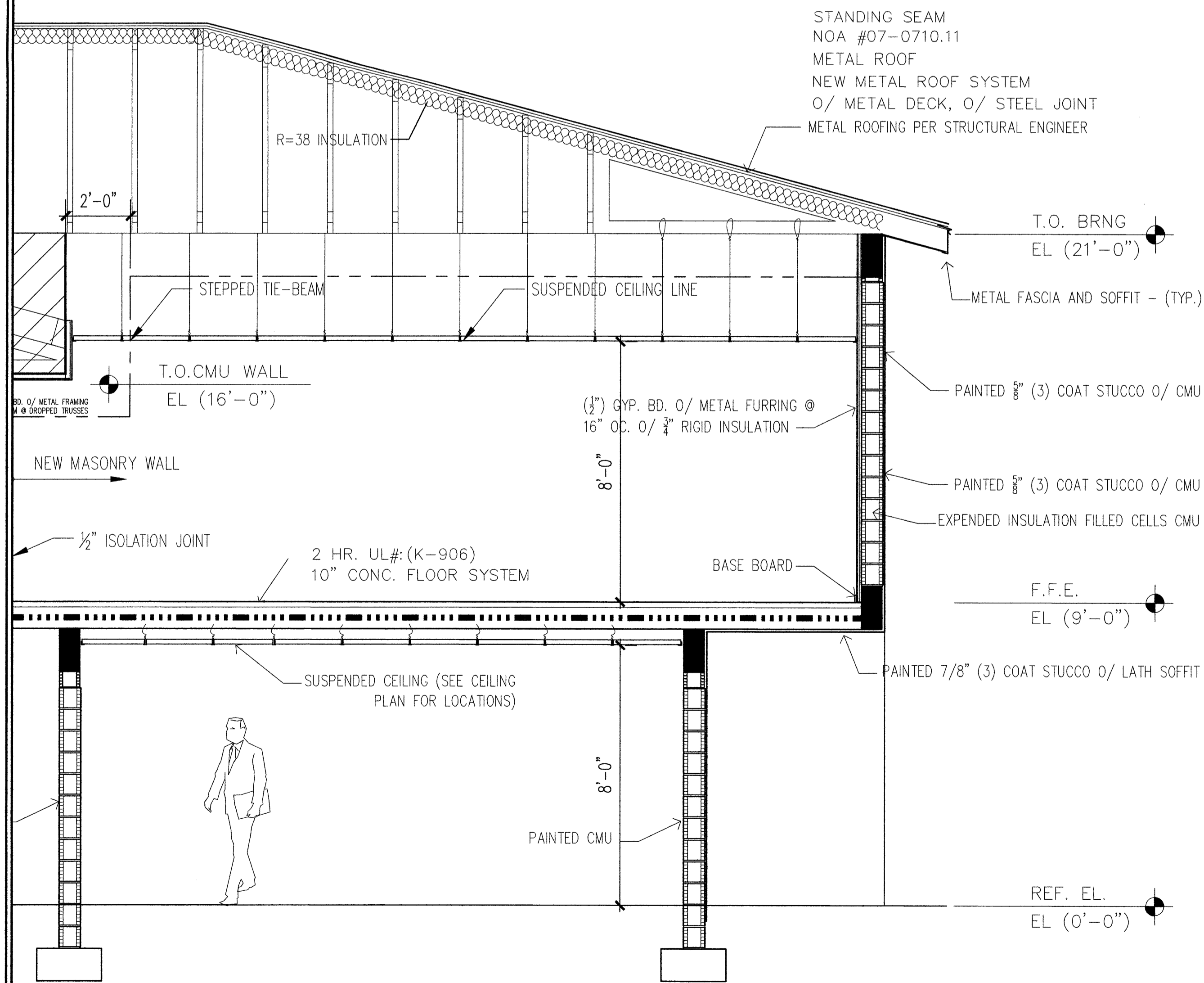
EAST ELEVATION  
1/8" = 1'-0"



SOUTH ELEVATION  
1/8" = 1'-0"



NORTH ELEVATION  
1/8" = 1'-0"



1 WALL SECTION  
3/8" = 1'-0"

REMARKS  
FINAL PLAN APPROVAL:

DATE

REV.

PHASE - II  
MANATEE FLEET SERVICES  
1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by  
Al Meronek

Date 03-17-09

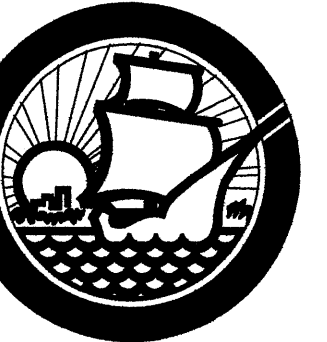
Alan John Meronek  
AR 91853

Expires 2-28-2011

Scale

Set

Drawing Number



REMARKS

DATE

REV.

PHASE - II  
MANATEE FLEET SERVICES  
1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

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Yehuda Inbar AIA  
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03-17-09

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AR 91853

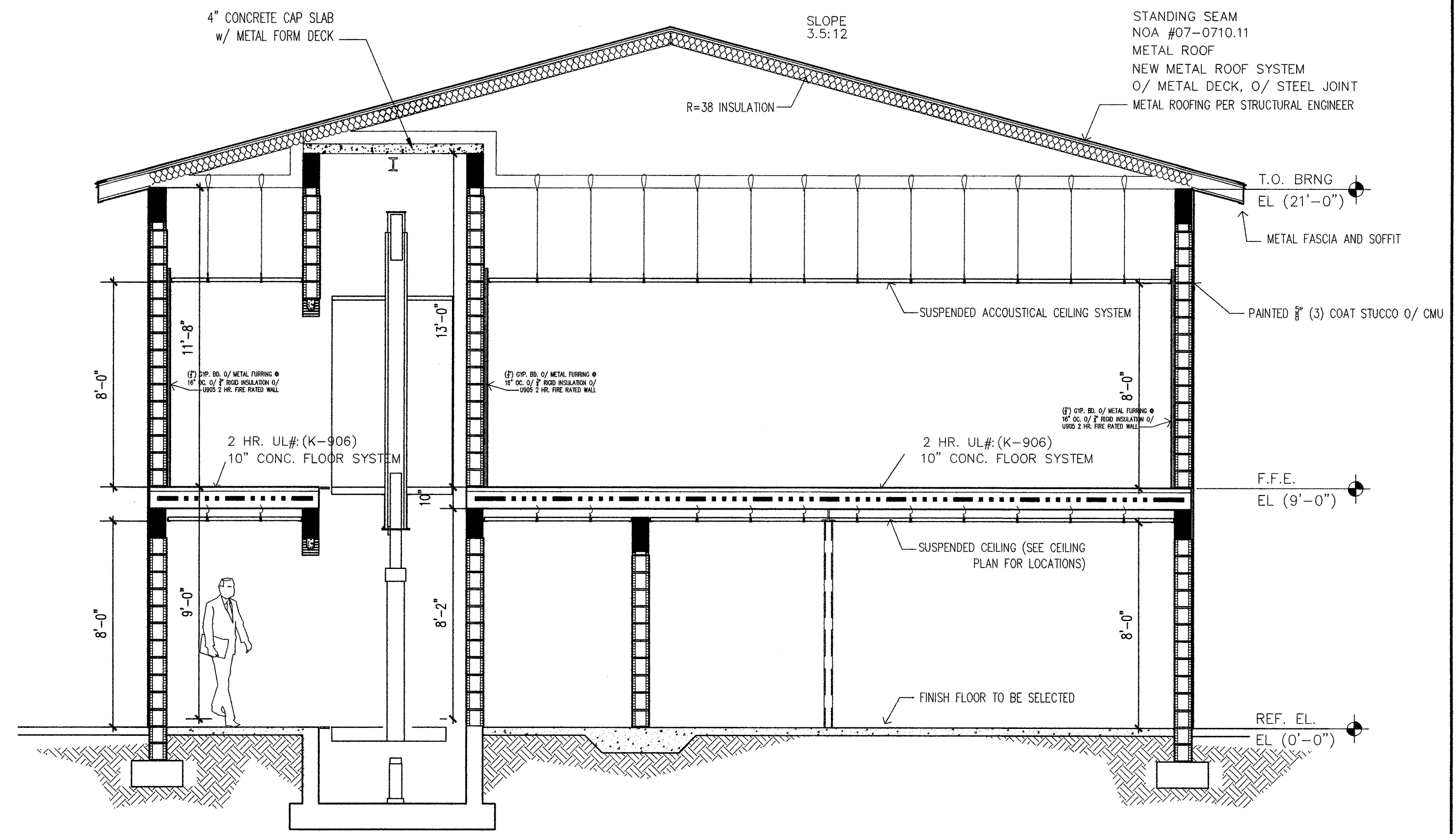
Expires 2-28-2011

Scale

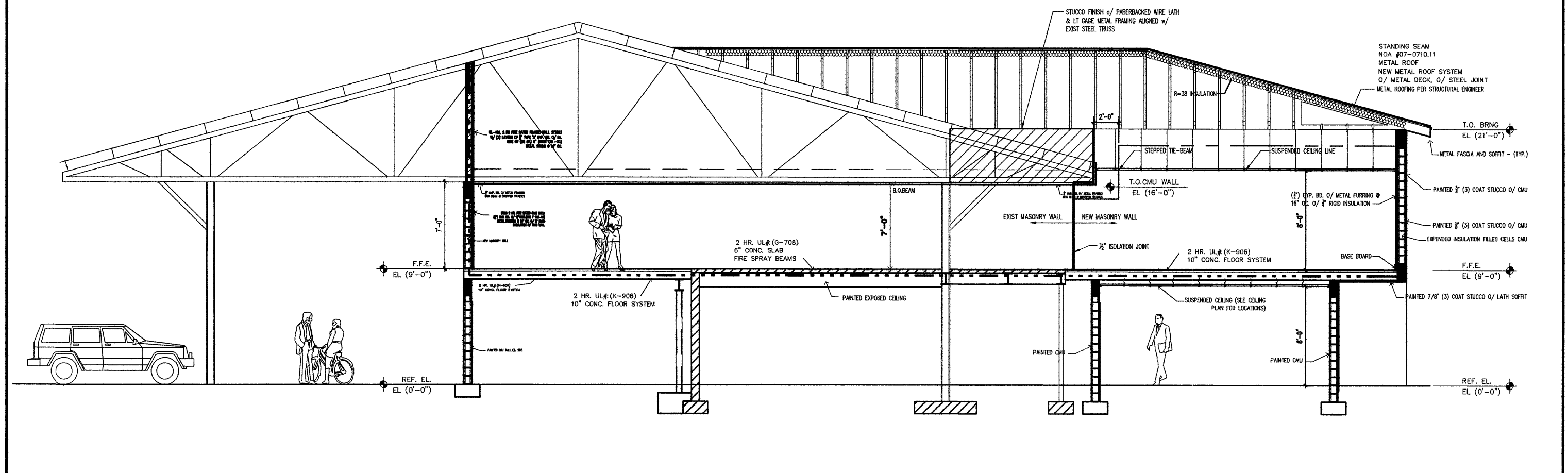
Set

Drawing Number

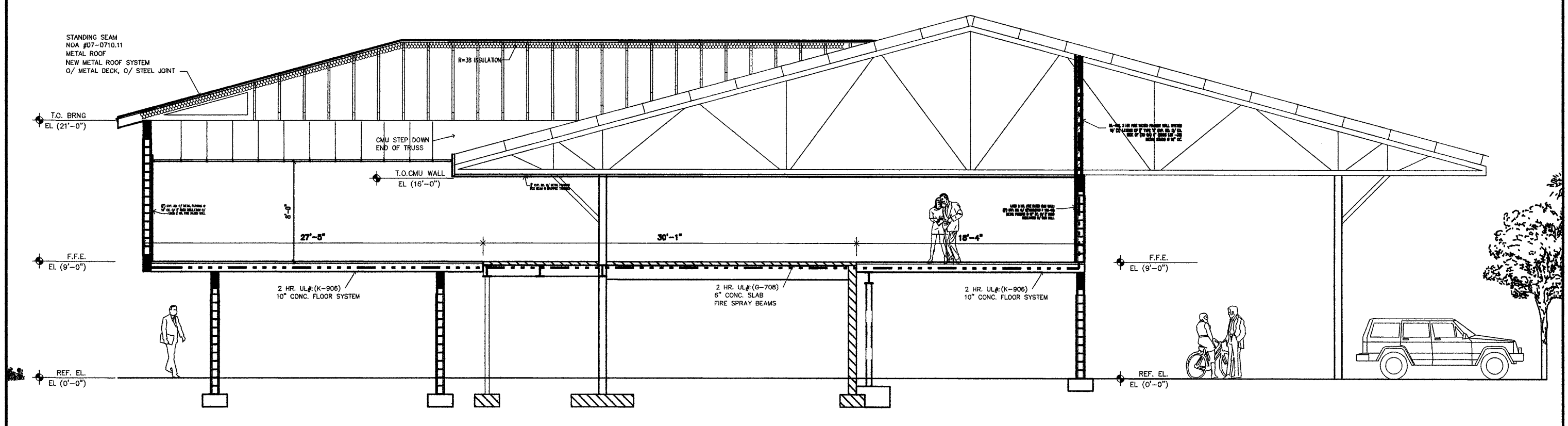
A2.2



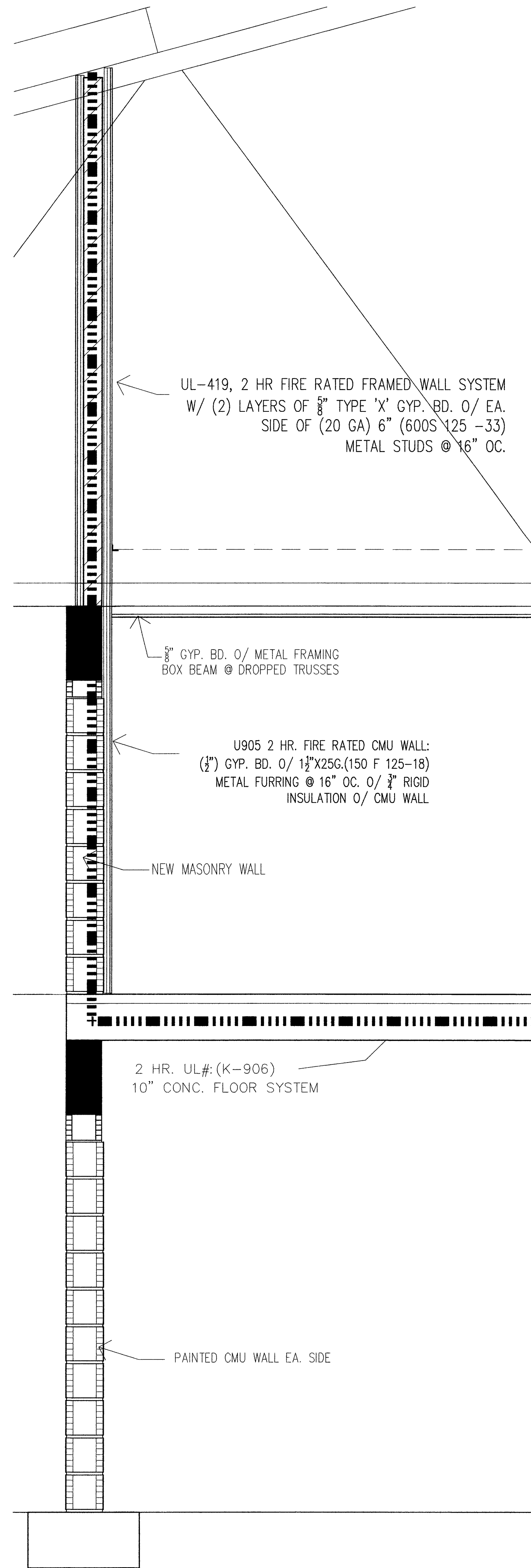
**A** NORTH ELEVATION  
1/4" = 1'-0"



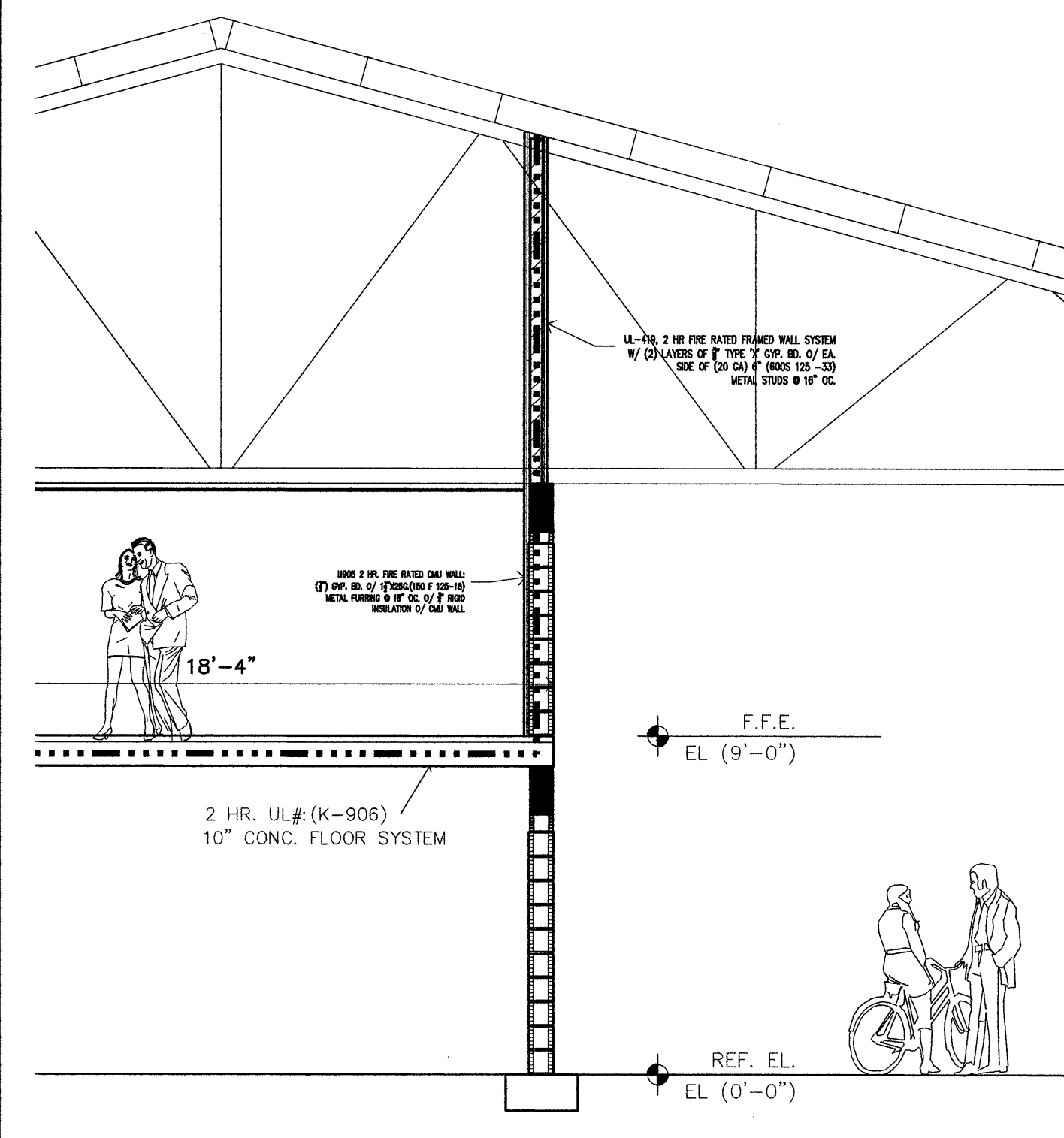
**B** EAST ELEVATION  
1/8" = 1'-0"



**C** BUILDING SECTION  
1/8" = 1'-0"



**2** WALL SECTION  
3/4" = 1'-0"



**1** WALL SECTION  
1/4" = 1'-0"



REMARKS  
FINAL PLAN APPROVAL:

DATE  
REV.

PHASE - II  
MANATEE FLEET SERVICES  
1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by:  
Al Meronek

Date 03-17-09

Alan John Meronek  
AR 91853

Expires 2-28-2011

Scale

Set

Drawing Number

A3.1

IMPORTANT NOTES  
GENERAL REQUIREMENTS BY OTHERS

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

HALL FIXTURE LOCATION  
RIGHT HAND AS SHOWN  
LEFT HAND OPPOSITE

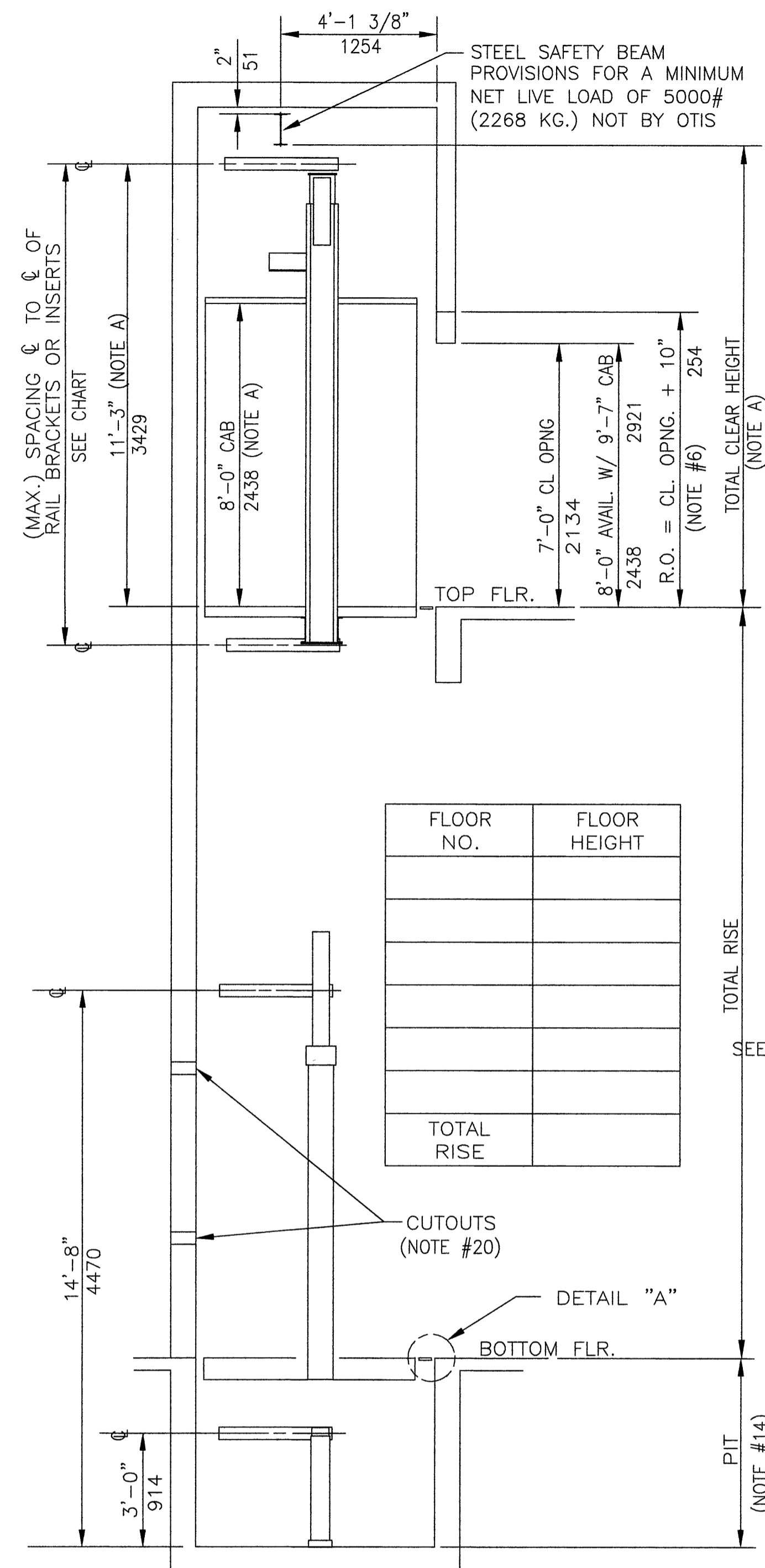
- HALL BUTTON AT ALL FLOORS
- OPTIONAL HALL POSITION INDICATOR OR HALL LANTERN (TYPICAL LOCATION WITH 7'-0" / 2134 OPENING).

MACHINE ROOM IS LOCATED

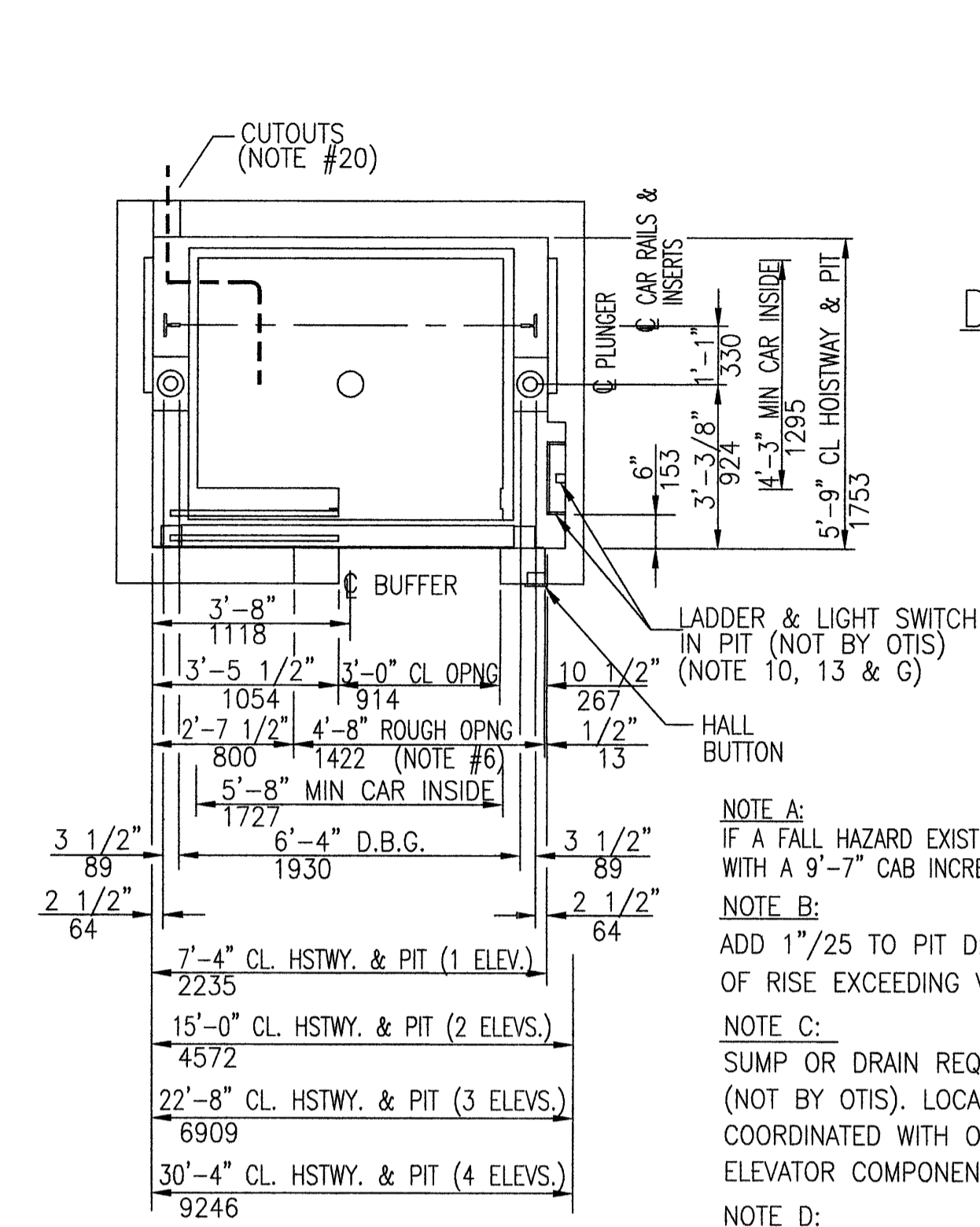
- ADJACENT TO HOISTWAY @ LEFT SIDE
- ADJACENT TO HOISTWAY @ REAR
- ADJACENT TO HOISTWAY @ RIGHT SIDE
- REMOTE DISTANCE FROM HOISTWAY
- MACHINE ROOM LEVEL

MINIMUM CLEAR MACHINE ROOM DIMENSIONS:  
5'-9" / 1753 X 7'-4" / 2236  
DOOR SIZE IS 3'-0" / 914 X 7'-0" / 2134  
FOR MULTI-CAR GROUP MACHINE ROOM SIZES,  
SEE MACHINE ROOM LAYOUT PAGE IN OASIS.

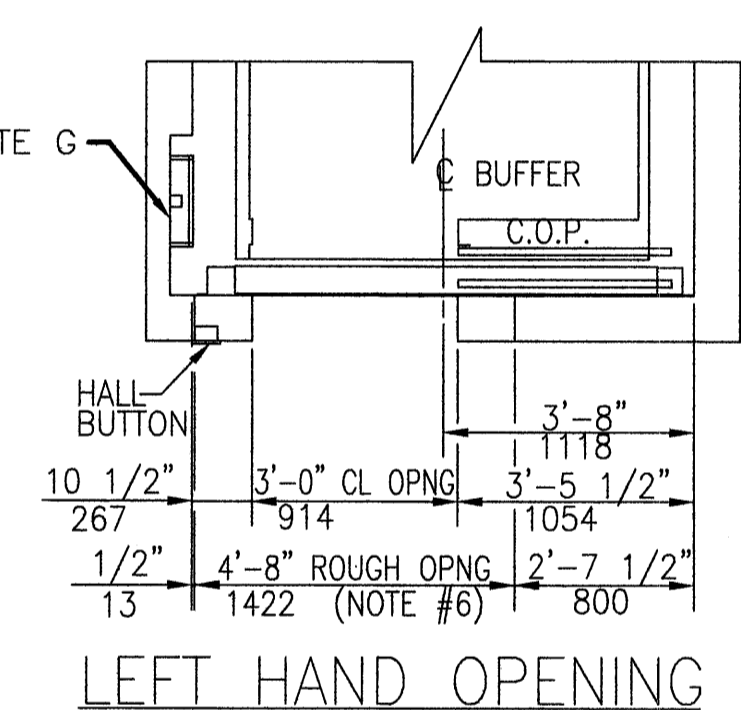
DIRECTIONAL ARROW  
INDICATE NORTH FOR HOISTWAY  
AND MACHINE ROOM PLAN.



SECTIONAL ELEVATION



PLAN VIEW WITH  
RIGHT HAND OPENING



LEFT HAND OPENING

PIT/OVERHEAD REQUIREMENTS

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

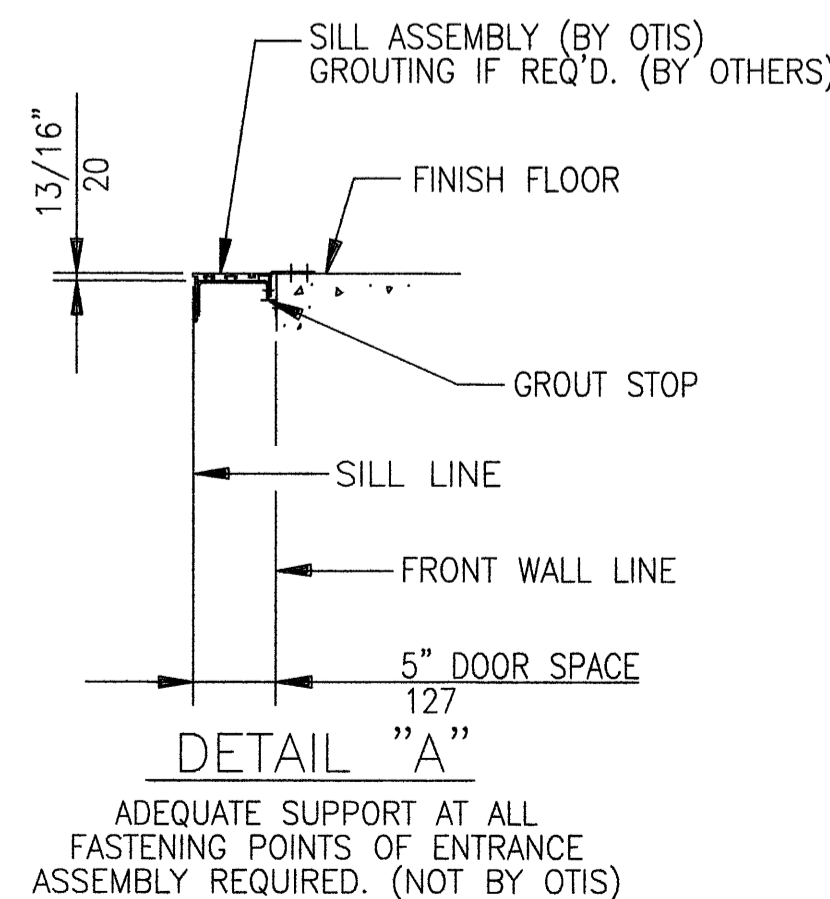
LVM 2100L

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

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

RAIL FORCE & BRACKET DETAIL

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



DETAIL "A"

REVISIONS

NO.	DATE	DESCRIPTION
12-03-03	NOTE A, 1"/25 WAS 5"/127.	(PCAN5695)AH/ML

APPROVAL

SIGNED	DATE

GUARANTEE

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

SIGNED	DATE

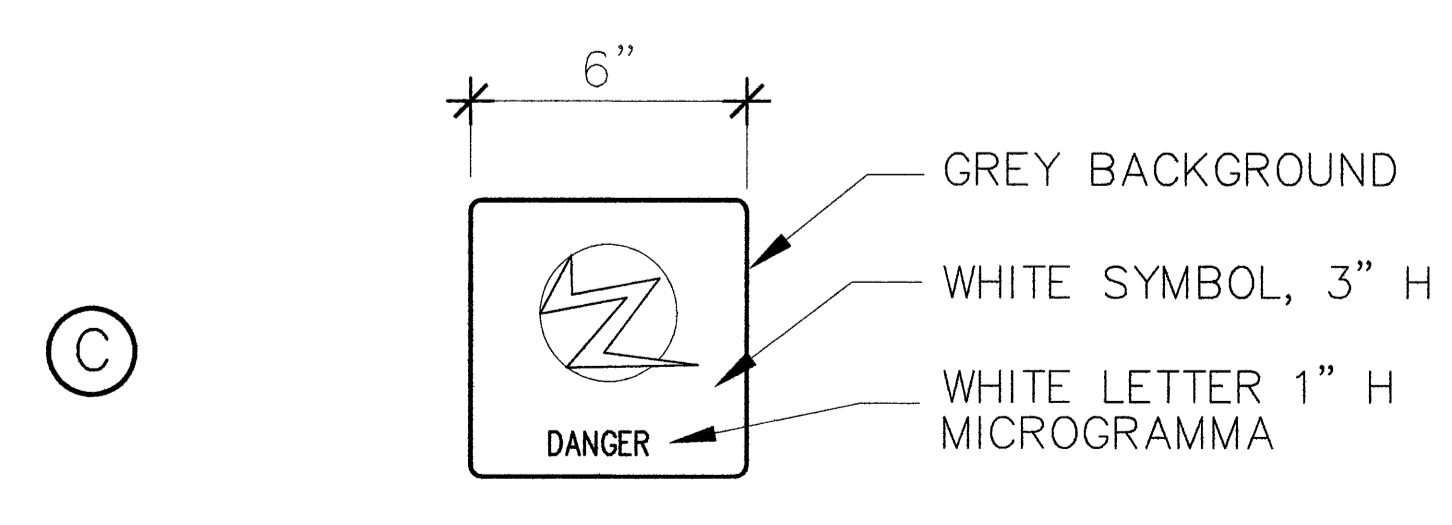
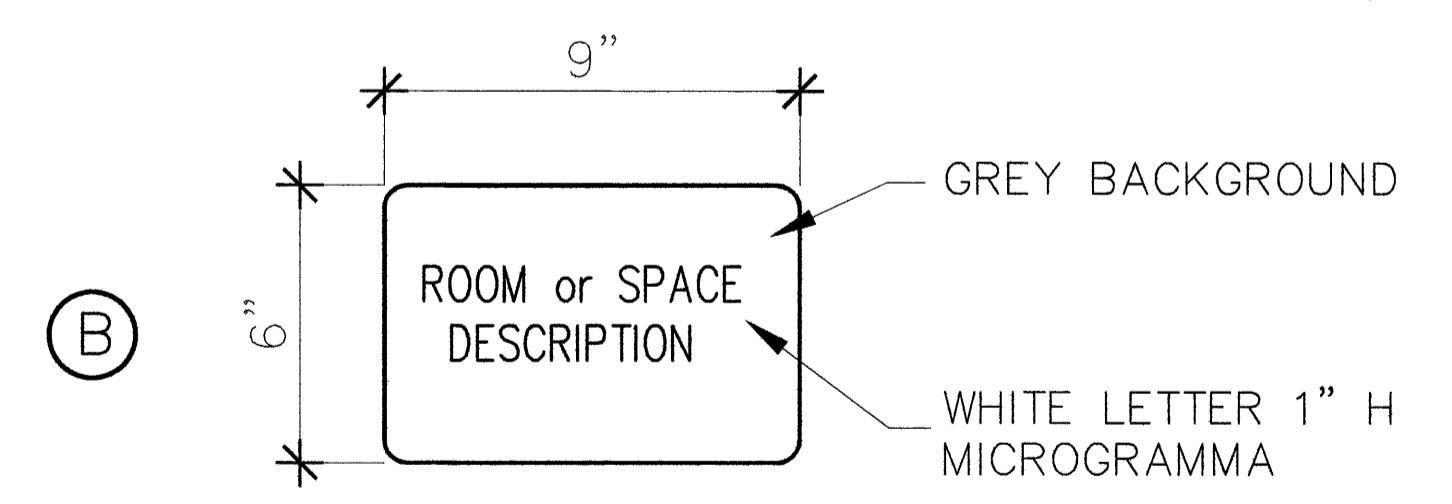
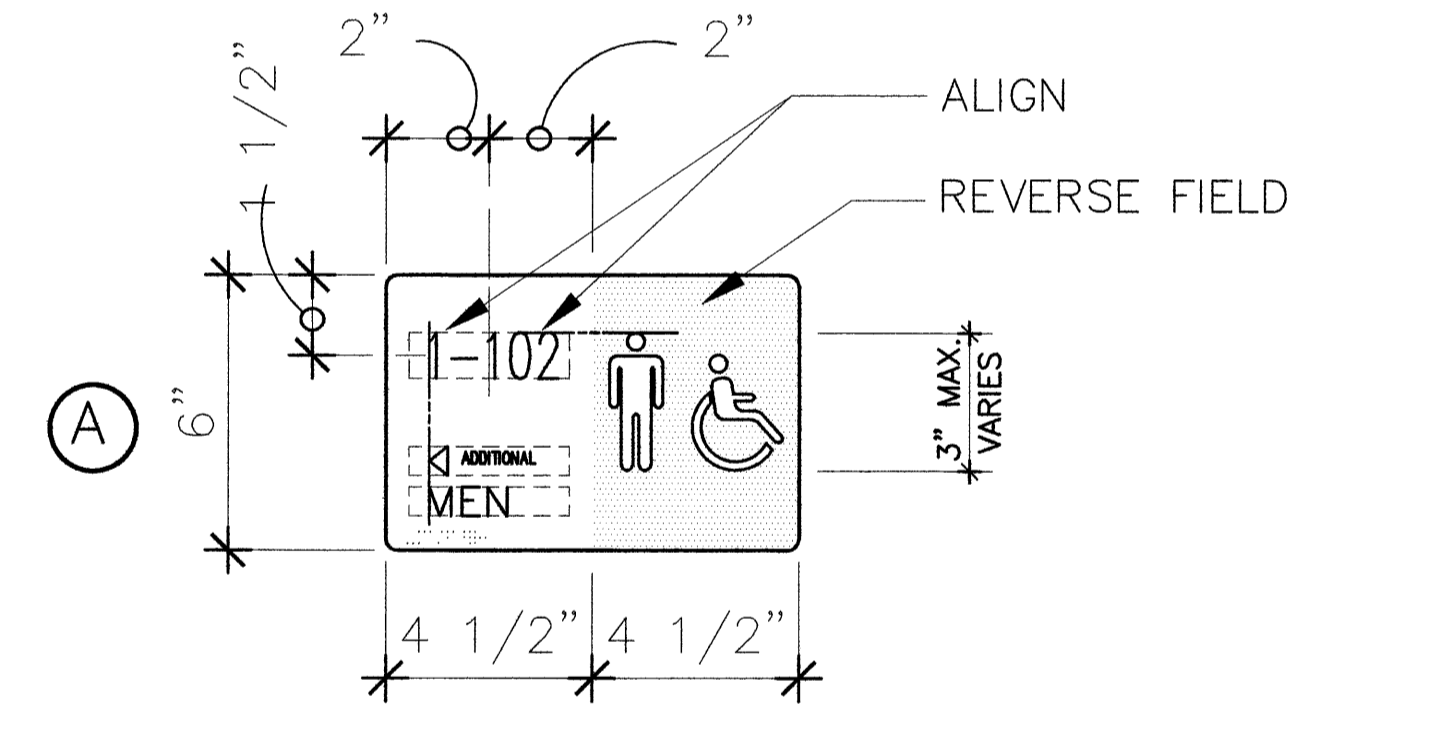
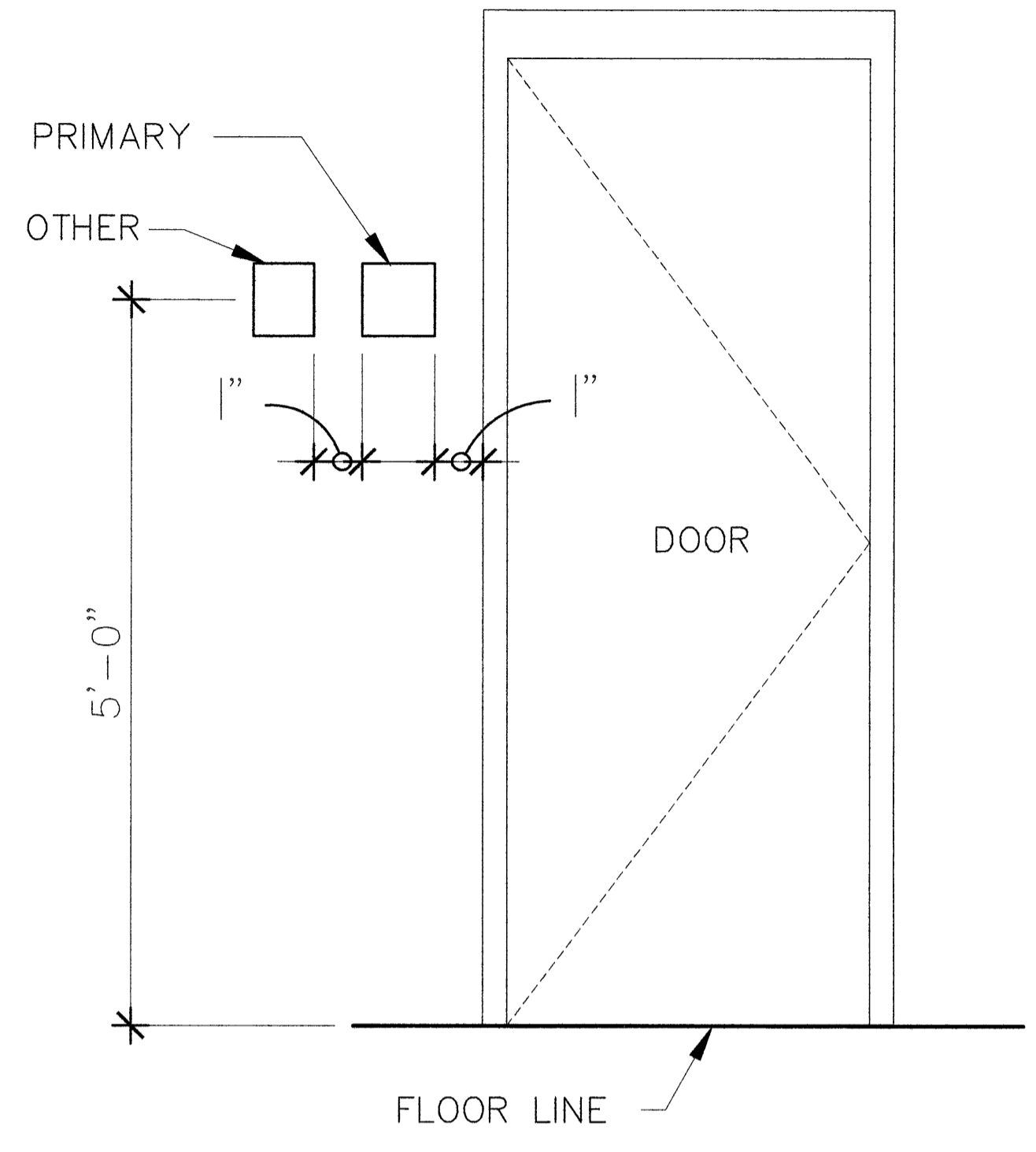
UNITED TECHNOLOGIES OTIS ELEVATOR

BUILDING	
LOCATION	SEISMIC ZONE
CONT. WITH	
OWNER	
ARCHT.	
SALES NO.	

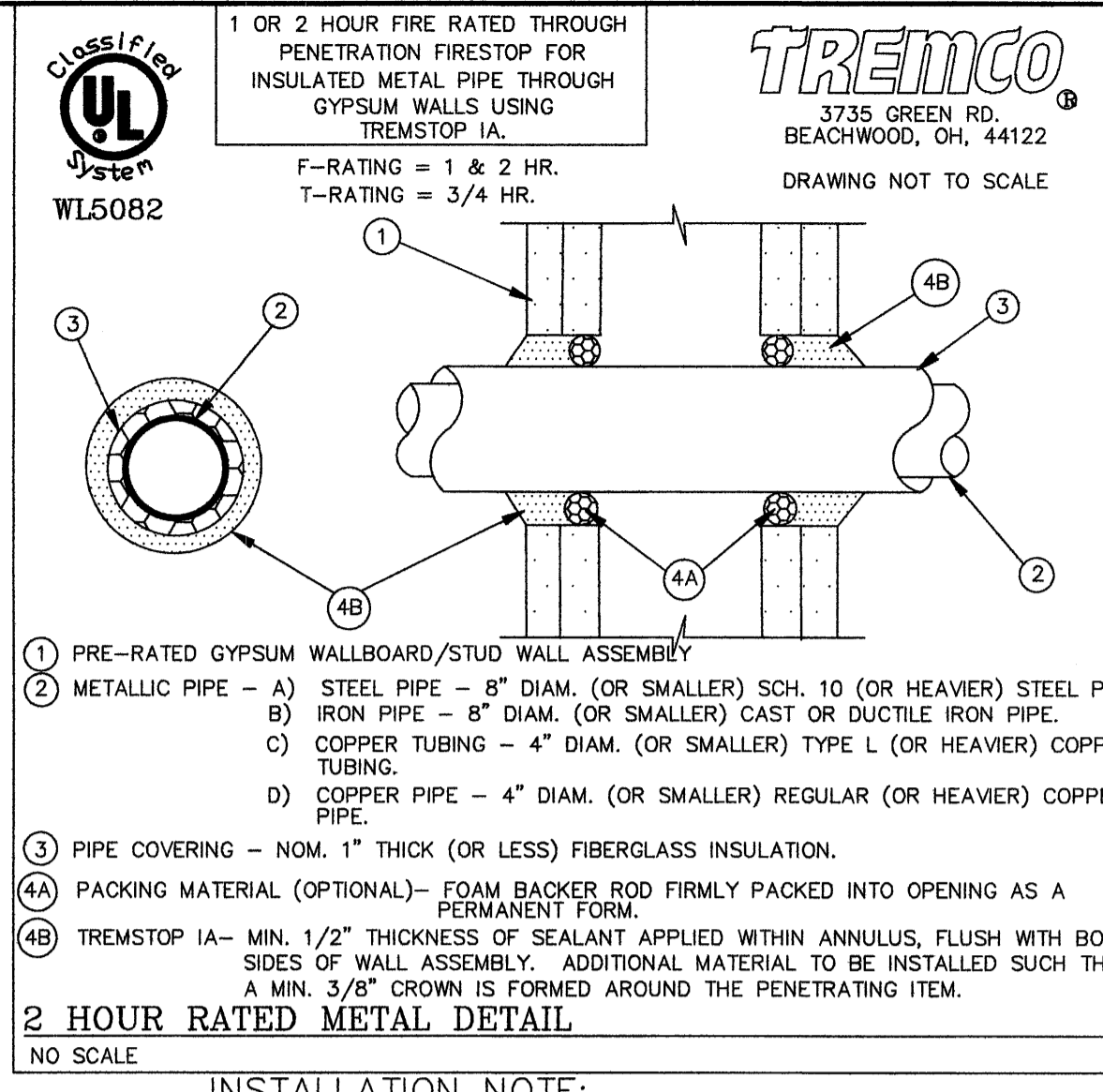
LVM 2100L

DWG. NO. AAA28010BV

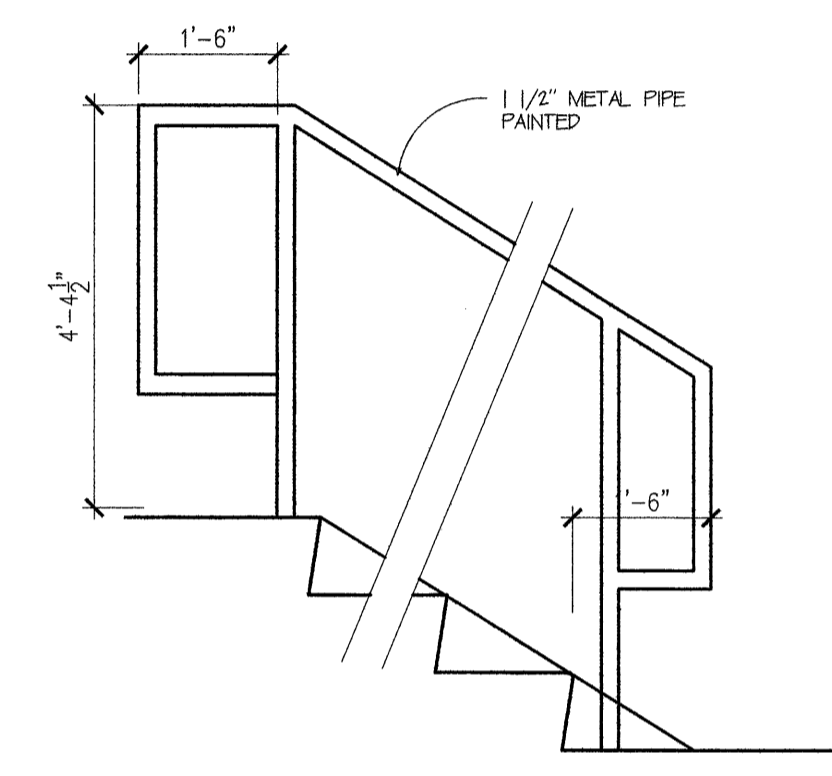
**NOTE:**  
 1. ALL SIGNAGE SHALL CONFORM W/. FLORIDA ACCESSIBILITY CODE, AND AMERICANS WITH DISABILITIES ACT



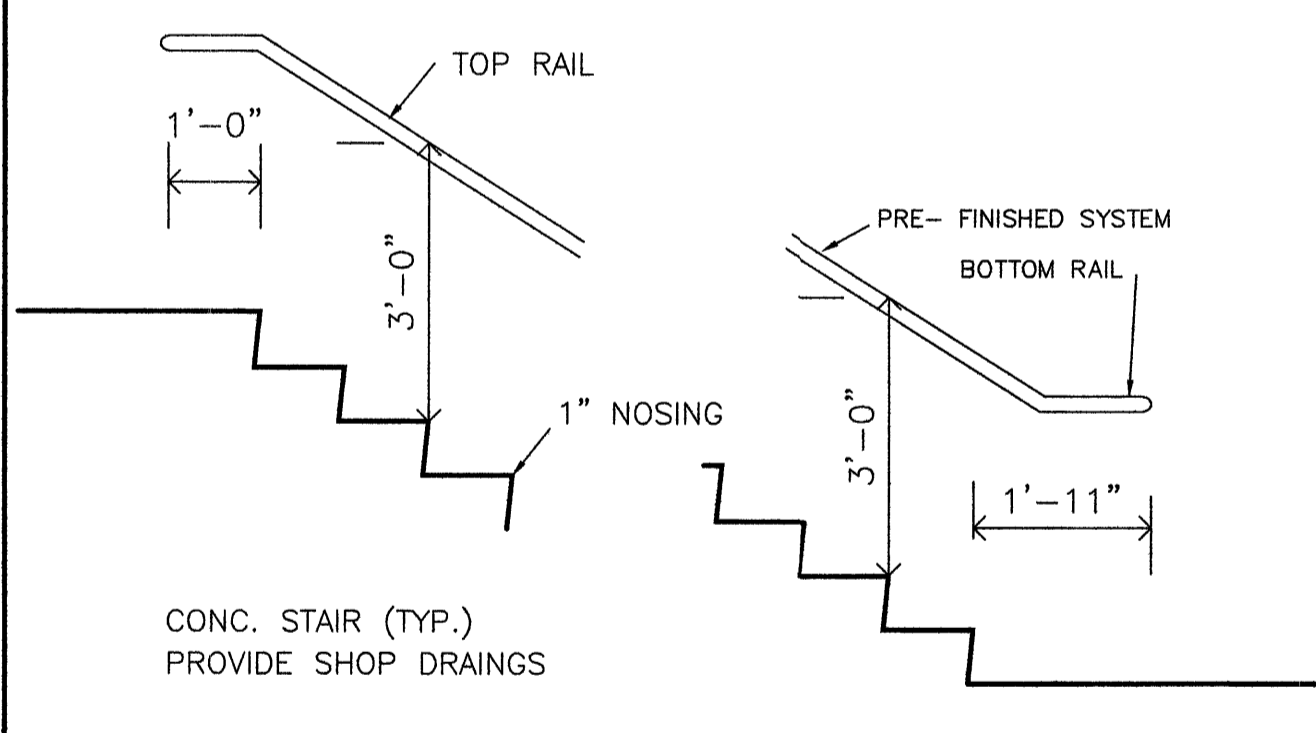
**8 SIGNAGE ELEVATIONS**  
 NTS



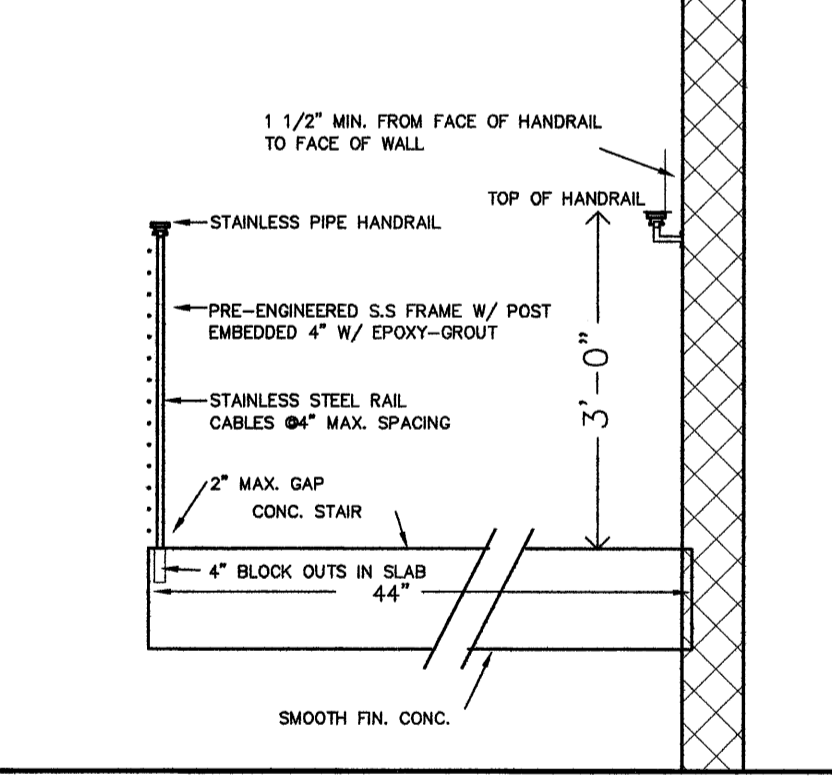
**2 HOUR RATED METAL DETAIL**  
 NO SCALE  
 INSTALLATION NOTE:  
 PROVIDE 200# HORIZONTAL. LOAD CAPACITY



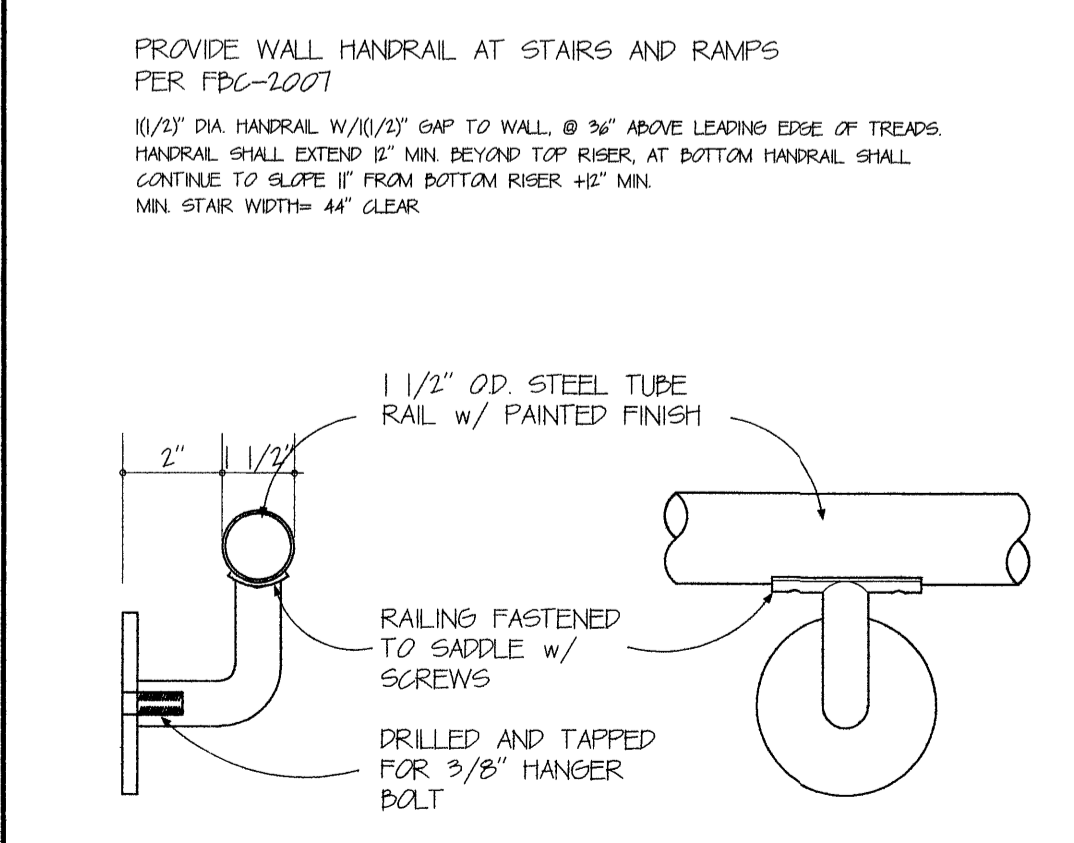
**5 OPEN HANDRAIL DETAIL**  
 1/2" = 1'-0"



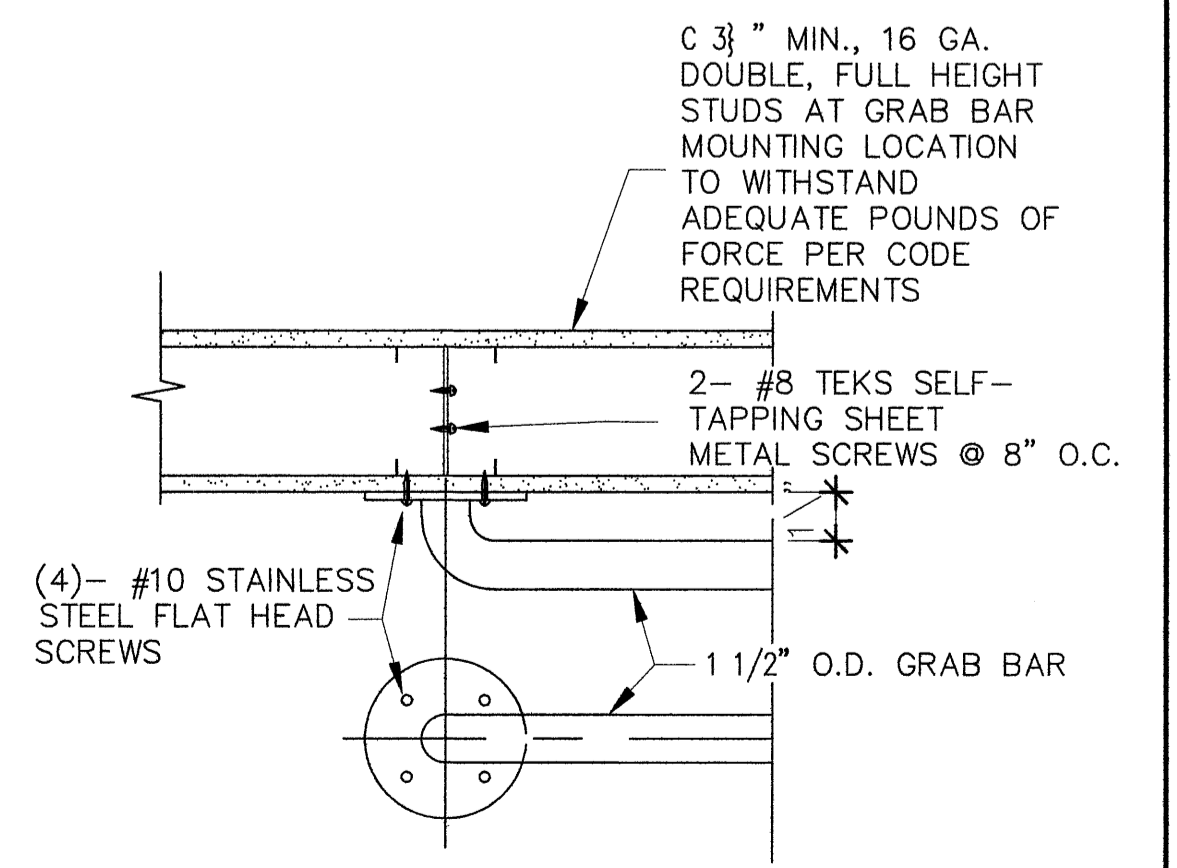
**6 WALL HANDRAIL DETAIL**  
 1/2" = 1'-0"



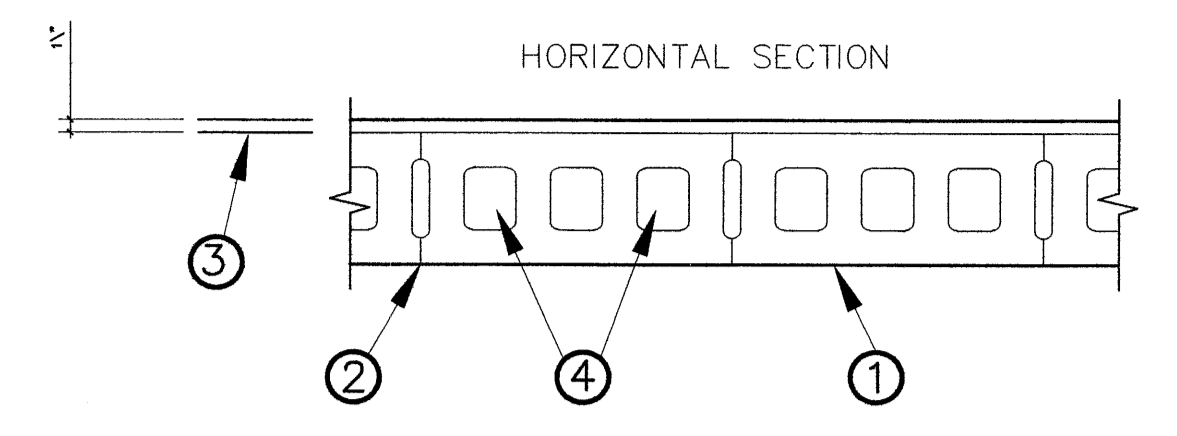
**4 STAIR SECTION DETAIL**  
 1/2" = 1'-0"



**7 WALL HANDRAIL DETAIL**  
 1/2" = 1'-0"

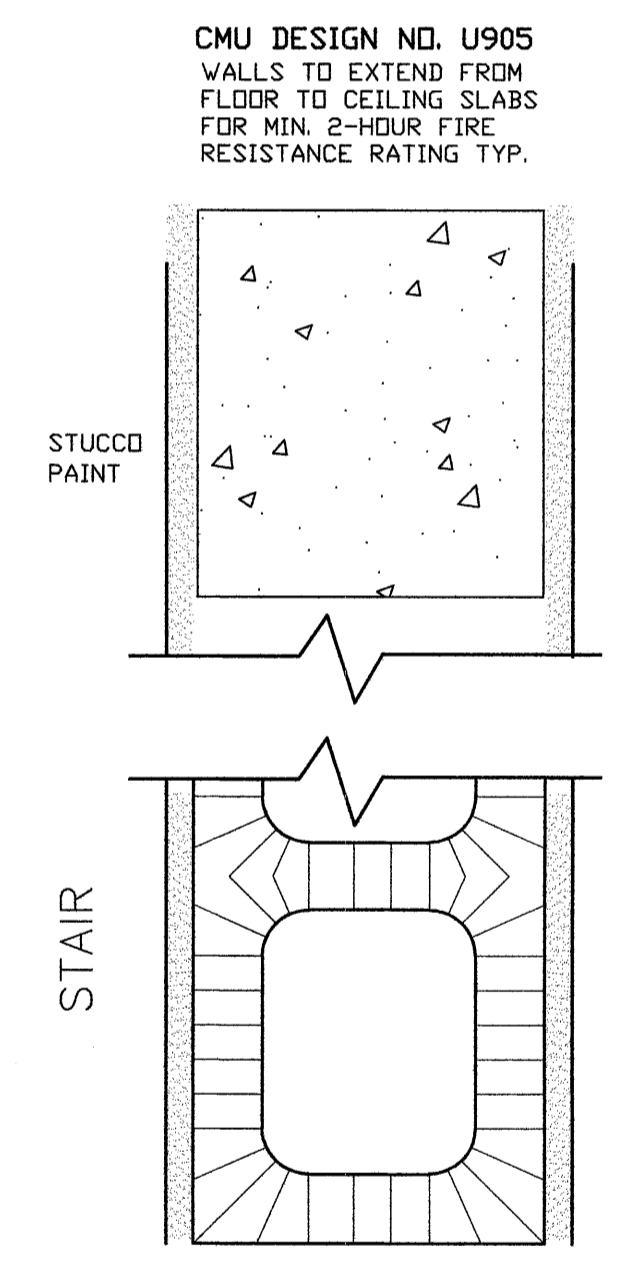


**3 GRAB BAR ATTACHMENT DETAIL**  
 1-1/2" = 1'-0"

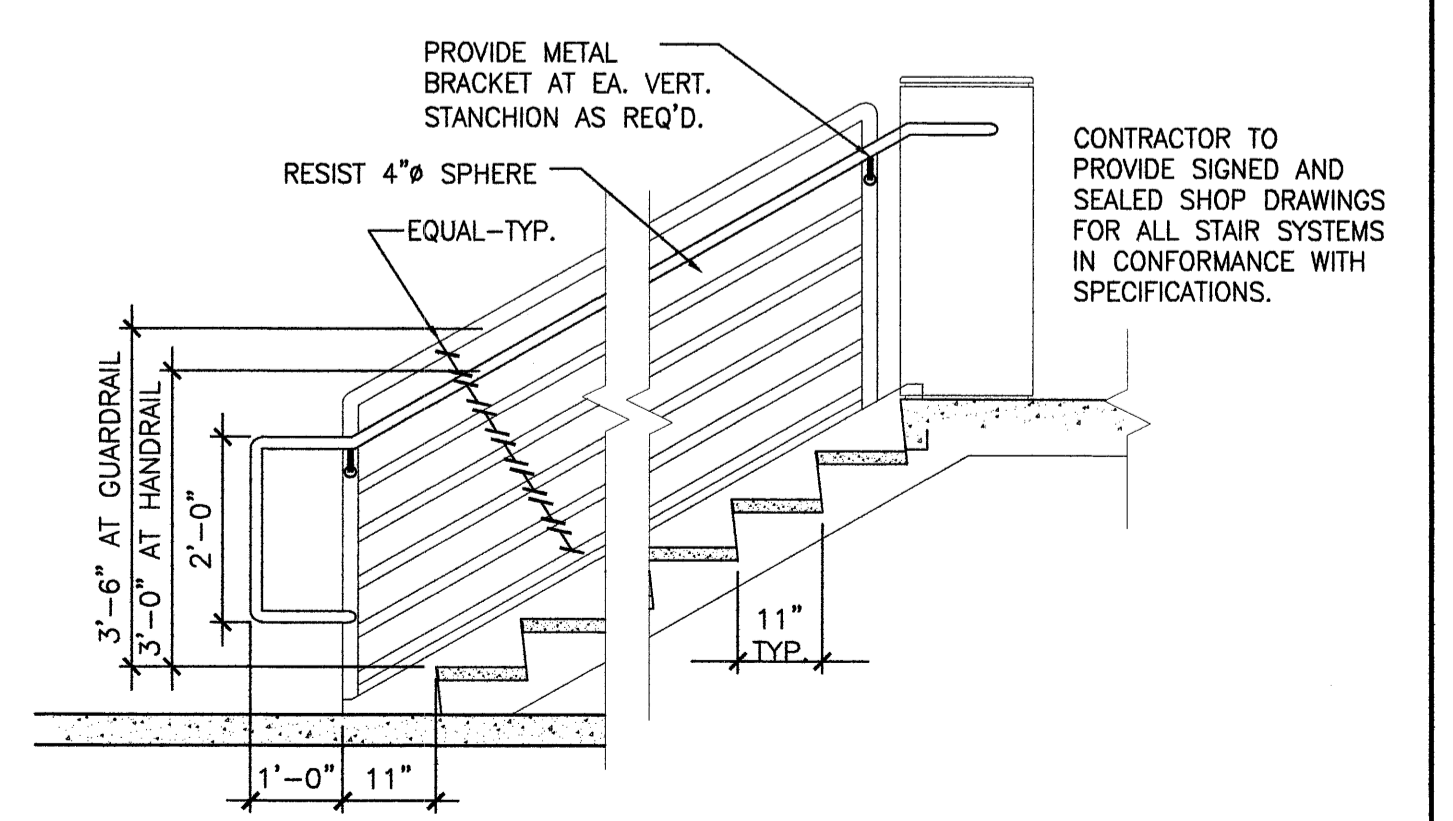


1. CONCRETE BLOCKS - VARIOUS DESIGNS. CLASSIFICATION D-2 (2 HR.) (SEE CONCRETE BLOCKS CATEGORY FOR LIST OF ELIGIBLE MANUFACTURERS)  
 2] AND NOT MORE THAN 3\ PARTS OF CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED.
- 2A. MORTAR MIXTURE - (ALTERNATE TO MORTAR-ITEM 2)- NOT MORE THAN 130 LBS. OF SAND AND 5 GAL. OF WATER TO 76 LBS. (ONE BAG) OF MORTAR MIXTURE. (CEMTECH LABORATORIES, INC.)
3. PORTLAND CEMENT STUCCO OR GYPSUM PLASTER - ADD \ HR. TO CLASSIFICATION IF USED. WHERE COMBUSTIBLE MEMBERS ARE FRAMED IN WALL, PLASTER OR STUCCO MUST BE APPLIED ON THE FACE OPPOSITE FRAMING TO ACHIEVE A MAX. CLASSIFICATION OF 1-\ HR.
4. LOOSE MASONRY FILL - IF ALL CORE SPACES ARE FILLED WITH LOOSE DRY EXPANDED SLAG, EXPANDED CLAY OR SHALE (ROTARY KILN PROCESS), WATER REPELLENT VERMICULITE MASONRY FILL INSULATION, OR SILICONE TREATED PERLITE LOOSE FILL INSULATION ADD 2 HR. TO CLASSIFICATION.  
 \* BEARING THE UL CLASSIFICATION MARKING

**DESIGN NO. U905**  
**ASSEMBLY RATING- 1-OR 2 HR.**  
 BEARING OR NON-BEARING WALL



**2 2 HR FIRE RATED WALL**  
 scale 3" = 1'-0"



**1 STAIR SECTION (TYP.)**  
 1/2" = 1'-0"

**MANATEE COUNTY GOVERNMENT**  
 Facilities Management  
 1112 Manatee Avenue West  
 Suite 803, P.O. Box 1000  
 Bradenton, Florida 34206  
 (941) 748-4501  
 FAX (941) 742-5880

REMARKS  
 FINAL PLAN APPROVAL:

DATE

REV.

**PHASE - II**  
**MANATEE FLEET SERVICES**  
 1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yehuda Inbar AIA  
 Inbar architect AIA

Checked by:  
 Al Meronek  
 Date: 03-17-09

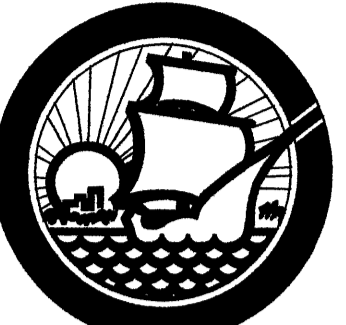
Alan John Meronek  
 AR 91853

Expires 2-28-2011  
 Scale

Set

Drawing Number





**HDW SET 1**

Door Numbers: 1 Exterior/Lobby AL x AL  
 Each opening to receive:

- 1 ea Cylinder 3900 Series US26D
  - 1 ea Core 3981 US26D
- Remainder of hardware by aluminum door supplier.

**HDW SET 2**

Door Numbers: 2 Exterior/Stair 30" x 70" MD x MF 1 1/2 Hr. U.L.  
 Each opening to receive:

- 3 ea Hinges BB1199 4.5" x 4.5" NRP US32D
- 1 ea Exit Device H1009 x DU US32D
- 1 ea Cylinder 3902 x LC US26D
- 1 ea Core 3981 US26D
- 1 ea Closer 5100 HDS ALM
- 1 ea Kickplate 194S US32D
- 1 set Gasket 891S MIL
- 1 ea Threshold 8135NMIL
- 1 ea Drip Guard 810S MIL

NOTE:  
 EGRESS WINDOW OPENING  
 TO BE AT 44" AFF (MAX.)  
 MIN. SIZE: 24" HEIGHT, 20" WIDTH  
 5.7 sf MIN. OPENING AREA

**HDW SET 3**

Door Numbers: 4 Exterior/Parts 30" x 70" MD x MF  
 Each opening to receive:

- 3 ea Hinges BB1199 4.5" x 4.5" NRP US32D
- 1 ea Storeroom Lock 93K 7D 15D S3 US26D
- 1 ea Closer 5100 ALM
- 1 ea Kickplate 194S US32D
- 1 ea Wall Stop 232W US32D
- 1 set Gasket 891S MIL
- 1 ea Threshold 8135NMIL
- 1 ea Drip Guard 810S MIL

**HDW SET 4**

Door Numbers: 5 Exterior/Parts, 6 Exterior/Parts 30" x 70" MD x MF  
 Each opening to receive:

- 3 ea Hinges BB1199 4.5" x 4.5" NRP US32D
- 1 ea Entrance Lock 93K 7AB 15D S3 US26D
- 1 ea Closer 5100 x HDS ALM
- 1 ea Kickplate 194S US32D
- 1 set Gasket 891S MIL
- 1 ea Threshold 8135NMIL
- 1 ea Drip Guard 810S MIL
- 1 ea Lock Guard 340D US32D

**HDW SET 5**

Door Numbers: 11 Hall/Stairs 30" x 70" WD x MF 1 1/2 Hr. U.L.  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Exit Device 4500 Rim-F US32D
- 1 ea Trim 45BE x ARC US26D
- 1 ea Closer 5100 ALM
- 1 ea Kickplate 194S US32D
- 1 ea Wall Stop 232W US32D
- 1 set Gasket 721S CHARCOAL

**HDW SET 6**

Door Numbers: 8 Lobby/Elevator Equip., 10 Men/Janitor 30" x 70" WD x MF 1 1/2 Hr. U.L.  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Storeroom Lock 3480 x ARC x I.C. US26D
- 1 ea Core 3981 US26D
- 1 ea Closer 5100 x HDS ALM
- 1 ea Kickplate 194S US32D
- 1 set Gasket 721S CHARCOAL

**HDW SET 7**

Door Numbers: 9 Womens 30" x 70" WD x MF 1 1/2 Hr. U.L.  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Privacy Lock 3440 x ARC US26D
- 1 ea Closer 5100 x HDS ALM
- 1 ea Kickplate 194S US32D
- 1 set Gasket 721S CHARCOAL

**HDW SET 8**

Door Numbers: 7 Lobby/Mens 30" x 70" WD x MF 1 1/2 Hr. U.L.  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Passage Set 3410 x ARC US26D
- 1 ea Closer 5100 x HDS ALM
- 1 ea Kickplate 194S US32D
- 1 set Gasket 721S CHARCOAL

**HDW SET 9**

Door Numbers: 14 Storeroom/Office 30" x 70" WD x MF  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Storeroom Lock 3480 x ARC x I.C. US26D
- 1 ea Core 3981 US26D
- 1 ea Overhead Stop #9 Series US32D
- 3 ea Silencers 307D GREY

**HDW SET 10**

Door Numbers: 12, 13 Restrooms 30" x 70" WD x MF  
 Each opening to receive:

- 3 ea Hinges BB1279 4.5" x 4.5" US26D
- 1 ea Privacy Lock 3440 x ARC US26D
- 1 ea Mop Plate 194S US32D
- 1 ea Wall Stop 236W US32D
- 3 ea Silencers 307D GREY

**WINDOW SCHEDULE**

ID	TYPE	MFR.	GLAZING	MASONRY R/O	WINDOW SIZE	FRAME COLOR	DESIGN OPTIONS	GLASS TINT	HD HGT	LOAD/SF	REMARKS
A	FIX	PGT	IMPACT	4'-0" X 4'-0"		WHITE		GRAY	6'-8" AFF	+40.0-50.0	
B	FIX	PGT	IMPACT	3'-0" X 6'-0"		WHITE		GRAY	6'-8" AFF	+40.0-50.0	
C	FIX	PGT	IMPACT	10'-0" X 1'-0"		WHITE		GRAY	6'-8" AFF	+40.0-50.0	
D	FIX	PGT	IMPACT	10'-0" X 4'-0"		WHITE		GRAY	6'-8" AFF	+40.0-50.0	

**DOOR SCHEDULE**

SYM.	TYPE	SIZE	THICK	DR. TYPE	MATERIAL	FINISH	FRAME	LOAD/SF	REMARKS
1	'A'	3'-0"x7'-0"	1 3/4"	SS. SF.	IMPACT GLASS	FACTORY	ALUM	+40.0-50.0	W/ ADA THRESHOLD
2	'A'	3'-0"x7'-0"	1 3/4"	SS. SC.	IMPACT GLASS	FACTORY	ALUM	+40.0-50.0	W/ ADA THRESHOLD
3	'B'	3'-0"x7'-0"	1 3/4"	SS SC	METAL	PNT	METAL	+40.0-50.0	W/ ADA THRESHOLD
5	'B'	3'-0"x7'-0"	1 3/4"	SS SC	1 1/2 HR. METAL	PNT	METAL		W/ PANIC HARDWARE
8	'B'	3'-0"x7'-0"	1 3/4"	SS SC	WOOD	PNT	METAL		
14	'B'	5'-0"x7'-0"	1 3/4"	SS SC	WOOD	PNT	METAL		

**INTERIOR LIST:**

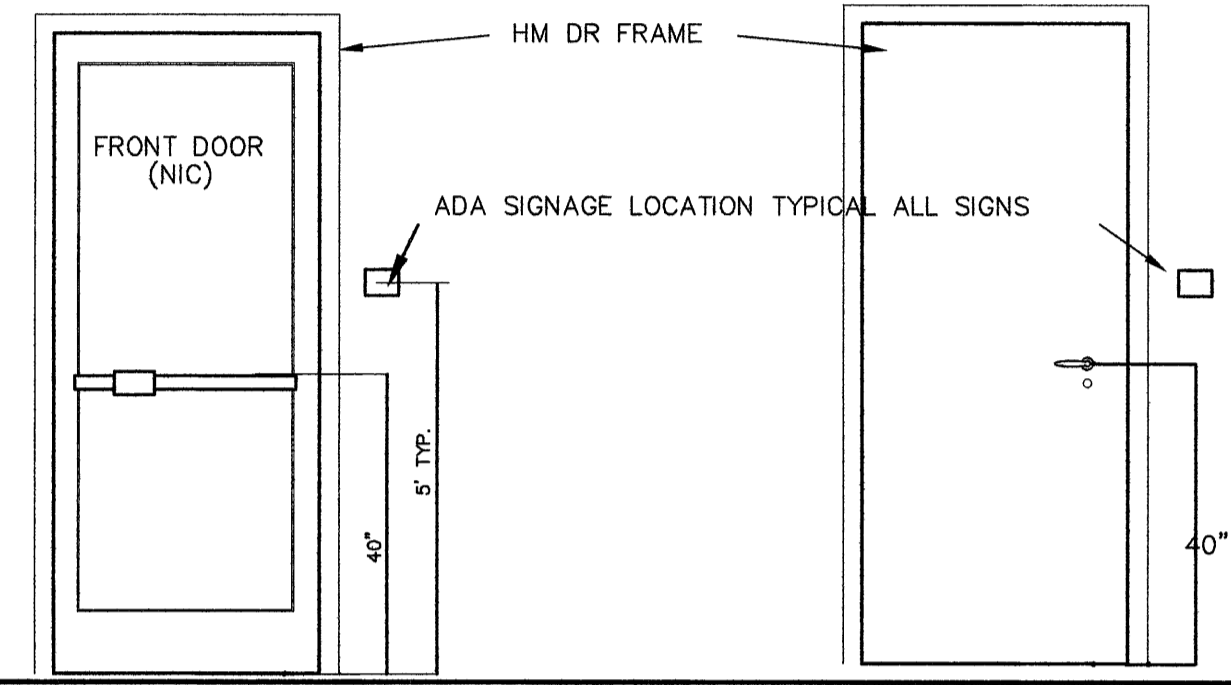
- (20 g) 8" studs @ 16" OC = 32' high
- (20 g) 6" studs @ 16" OC = 26' high
- (20 g) 4" studs @ 16" OC = 19' high
- (20 g) DBL-2 1/2" WEBX 1 5/8" FLENGE studs @ 16" OC BRACING @ 48" VERT. = 18' high

**EXTERIOR LIST:**

- 40#/SF: (20 g) 4" studs @ 16" OC = 9' high
- 40#/SF: (18 g) 4" studs @ 16" OC = 10' high
- 40#/SF: (18 g) 6" studs @ 16" OC = 14' high
- 40#/SF: (16 g) 8" studs @ 16" OC = 19' high

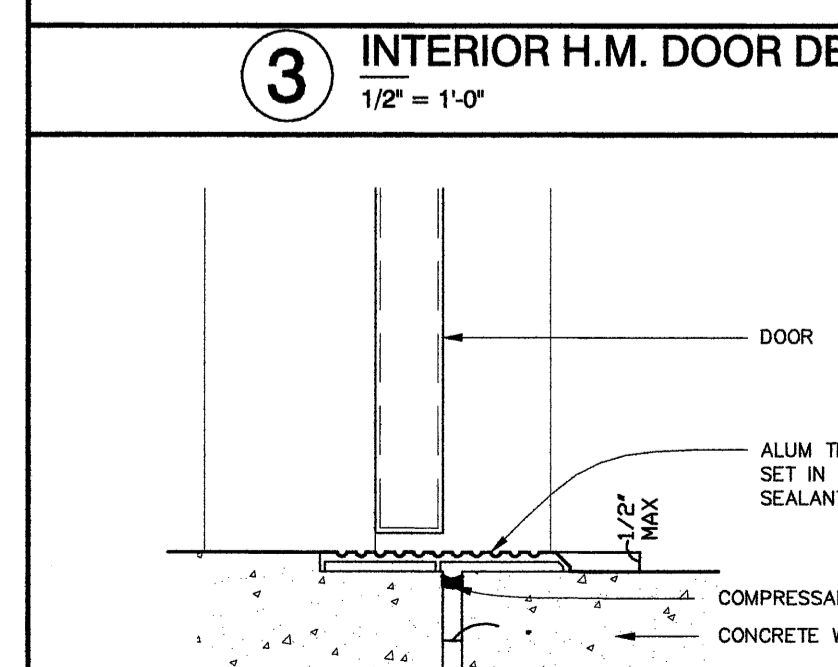
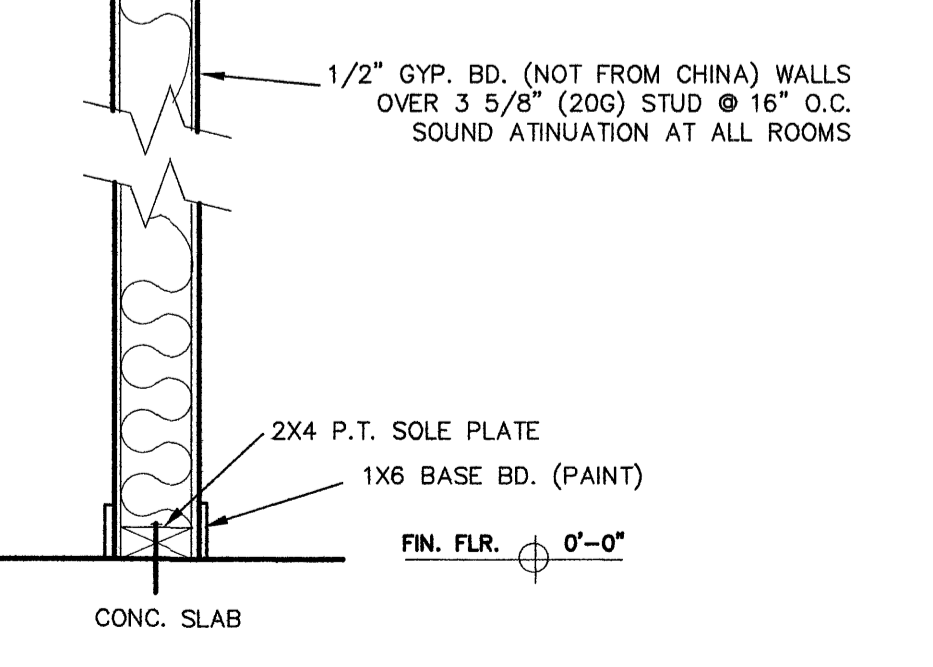
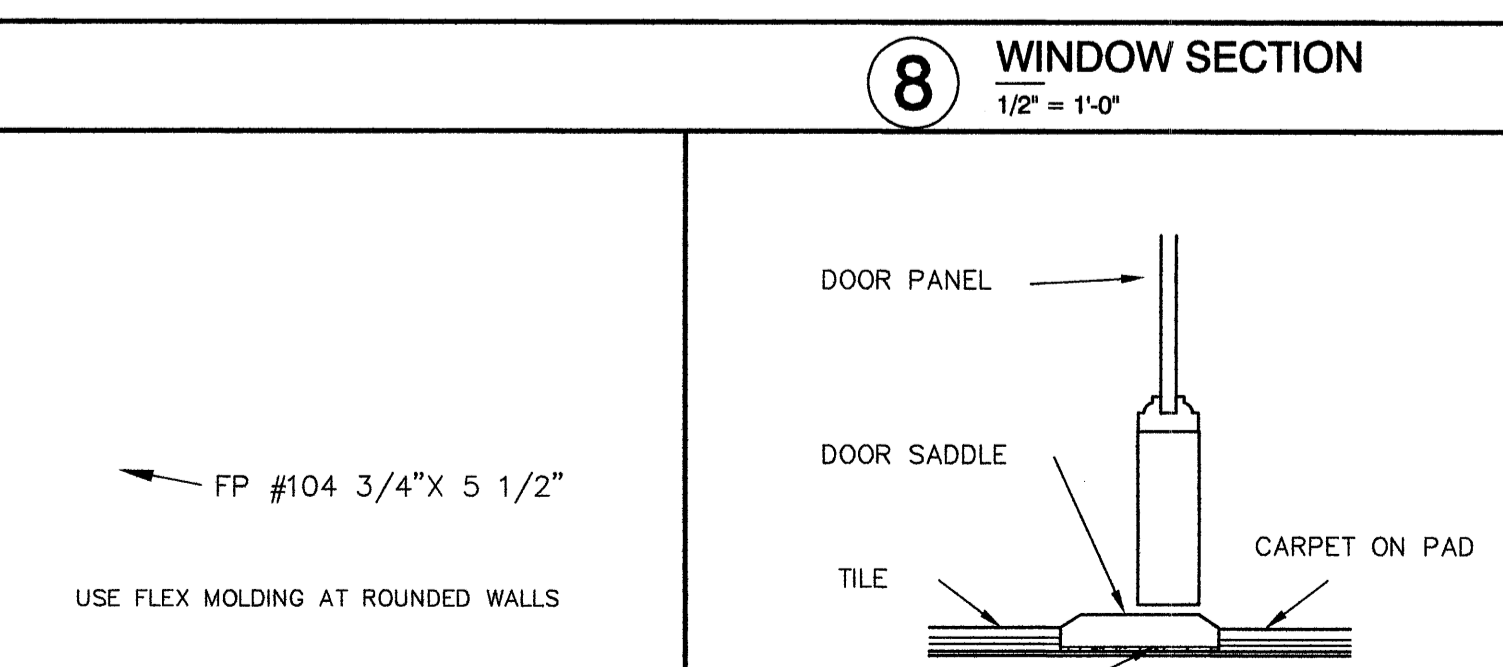
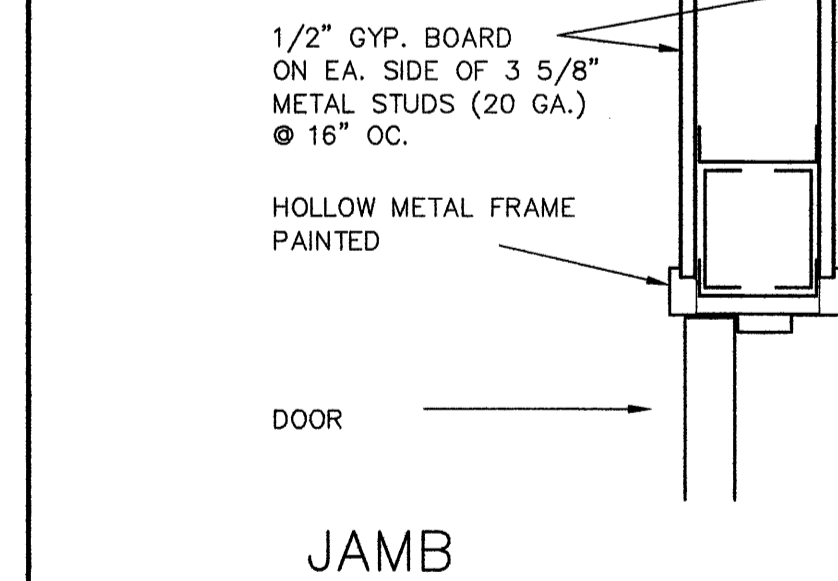
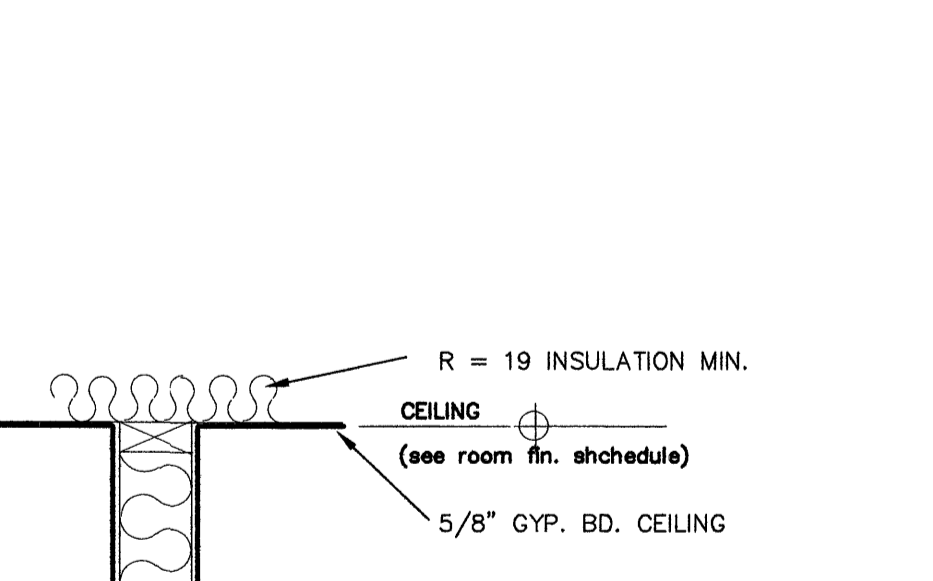
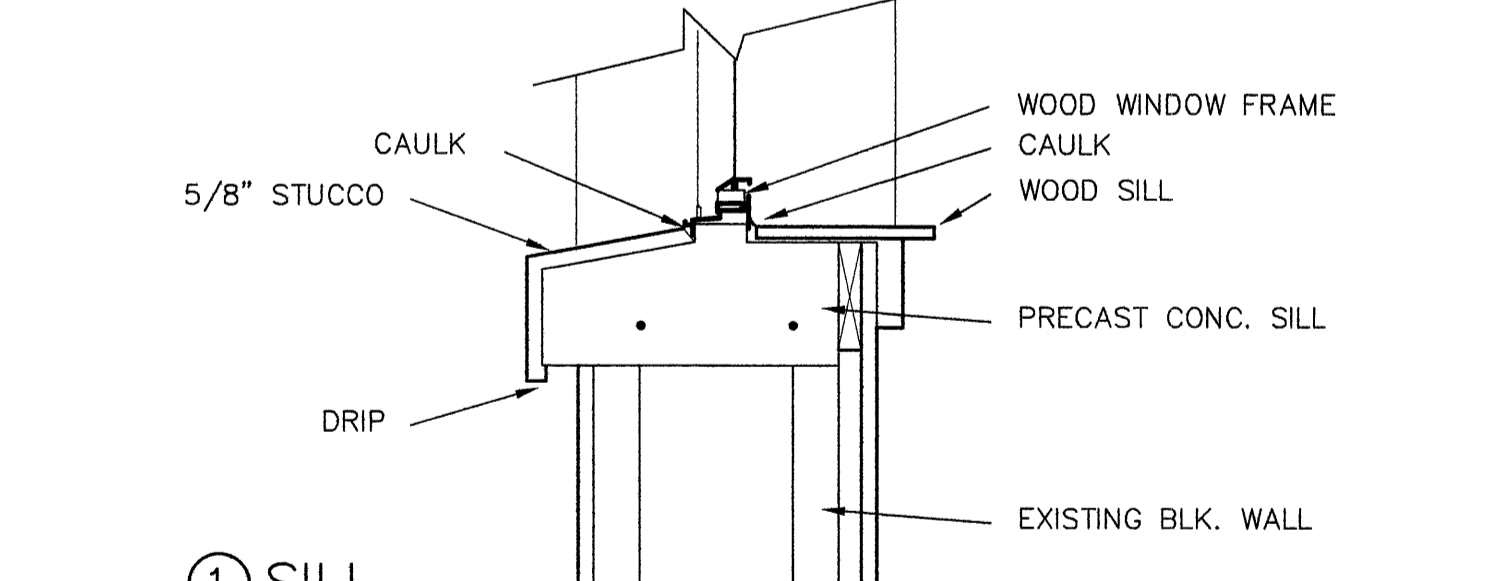
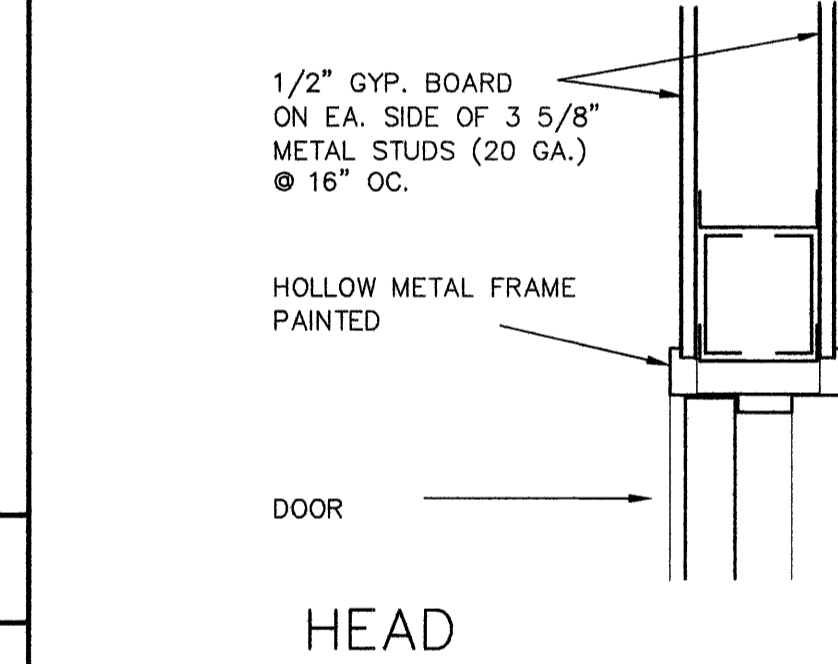
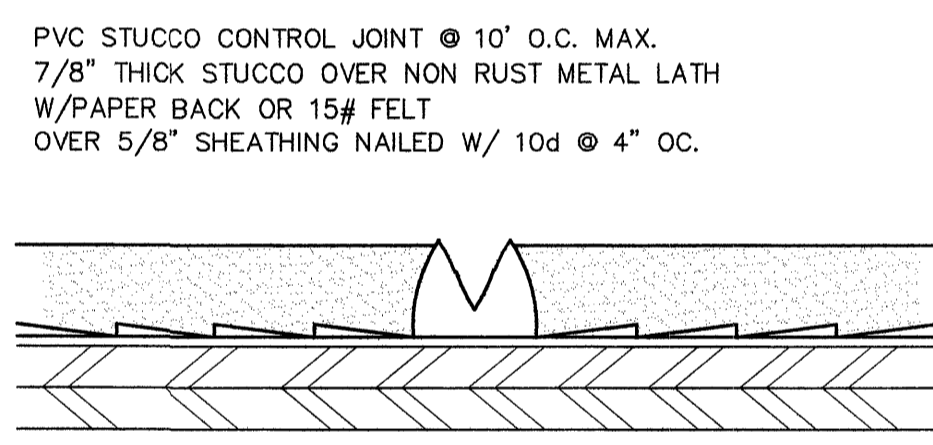
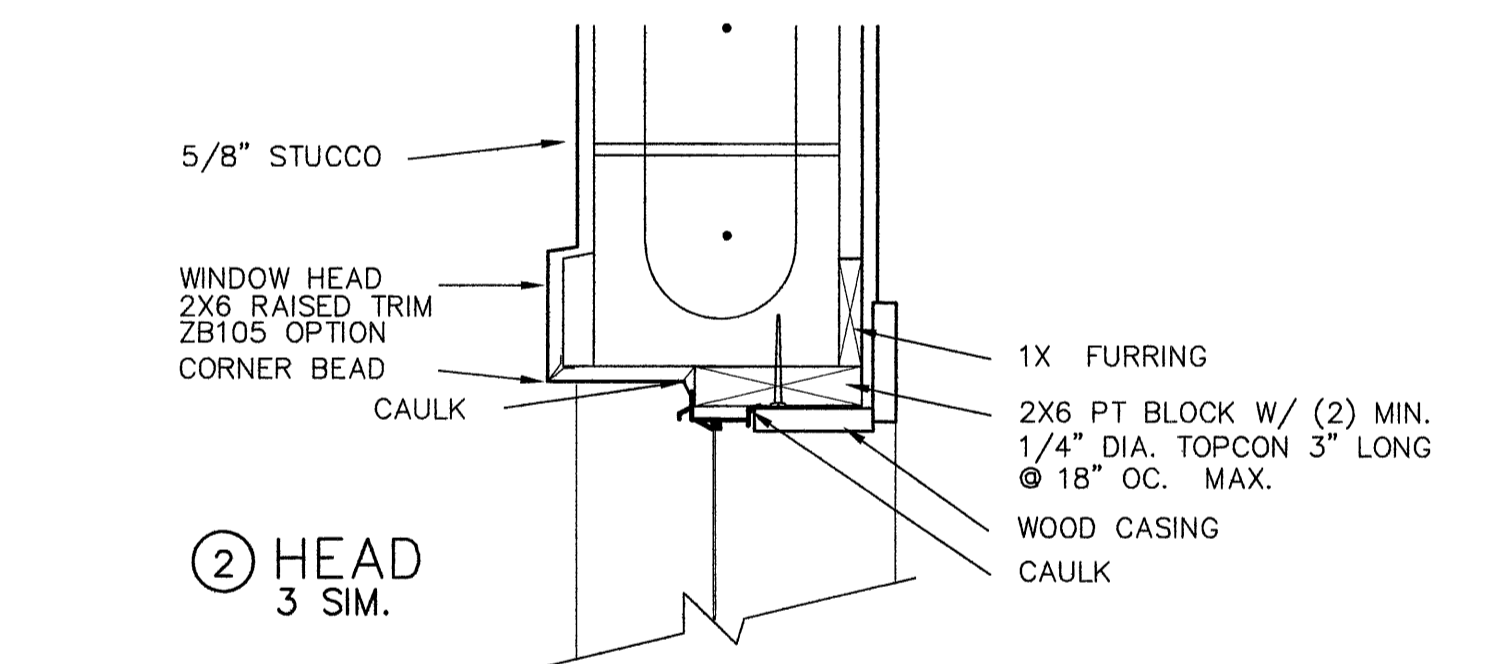
PROVIDE SELF CLOSER AT ALL EXIT DOORS AND BATHROOM DOORS

- NOTES:
- ALL INTERIOR DOORS SHALL BE PROVIDED WITH A MINIMUM OF THE FOLLOWING HARDWARE:
    - A: 1-1/2" PAIR OF 4-1/2" HIGH HINGES.
    - B: 1- LOCKSET, LEVER STYLE, SIM TO CAL- ROYAL GRADE 1 ENTRY FUNCTION LEVER LOCKSET.
    - C: 1- DOOR CLOSER, SIM TO DORMA 7600 SERIES
    - D: 1- DOOR STOP SIM. TO HAGER 236W
    - E: 1- DOOR HOLD OPEN AT EACH NON-RATED DOOR WITHOUT A CLOSER.
  - ALL EXTERIOR DOORS SHALL BE PROVIDED WITH A MINIMUM OF THE FOLLOWING HARDWARE:
    - A: 1-1/2" PAIR OF 4-1/2" HIGH HINGES.
    - B: 1- LOCKSET, LEVER STYLE, MEDIUM GRADE, SIM TO SCHLAG LEVER LOCKSET, W/ INTEGRAL DEADBOLT WITH INTR PANIC PROOF OPTION.
    - C: 1- DOOR CLOSER, SIM TO SARGENT 1230 SERIES
    - D: 1- COMPLETE WEATHER STRIP KIT AT DOORS WITH 1 1/2" PAIR OF OFFSET PIVOTS, SAM II CONCEALED OVERHEAD CLOSER, PANELINE II CR-90 CONCEALED ROD EXIT DEVICE, CO-9 PULLS IN US 32 POLISHED STAINLESS STEEL, THRESHOLD FOR OFFSET PIVOTS AND OVERHEAD CONCEALED CLOSERS, BOTTOM WEATHER SWEEP.
    - E: 1- ADA ACCESSIBLE LOW RISE THRESHOLD WITH MATCHING DOOR BOTTOM.
  - CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A DETAILED PROPOSED HARDWARE SCHEDULE COMPLETE WITH CUT SHEETS FOR THE ARCHITECT REVIEW BEFORE PROCEEDING WITH DOORS, DOOR FRAMES AND HARDWARE ORDER. FINAL HARDWARE SCHEDULE SHALL BE AN APPROVED DOOR FRAMES AND HARDWARE SUPPLIER PROPOSAL.
  - ALL HARDWARE AND THRESHOLDS SHALL COMPLY WITH THE 2004 FLORIDA ACCESSIBILITY CODE.
  - 'PEMCO' THRESHOLD OR APPROVED EQUALS ACCEPTABLE.



**11 STUDS SCHEDULE**  
 NTS

**4 DOOR ELEVATIONS**  
 1/2" = 1'-0"



**ROOM FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	FLOOR		WALLS			CEILING	HEIGHT
		FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	
01	LOBBY	F4		N	E	W	S	
02	HALLWAY	F4	B2	W4	W4	W4	C1	8'-0"
03	PARTS STORAGE	F4	B2	W4	W4	W4	C1	8'-0"
04	PARTS STORAGE	F4	B2	W4	W4	W4	C1	8'-0"
05	MEN'S	F4	B2	W1	W4	W4	C1	8'-0"
06	WOMEN'S	F4	B2	W1	W4	W4	C1	8'-0"
22	HALLWAY	F4	B2	W1	W1	W1	C1	8'-0"
23	OFFICE	F4	B2	W1	W1	W1	C1	8'-0"
24	OFFICE	F4	B2	W1	W1	W1	C1	8'-0"
25	OFFICE	F4	B2	W1	W1	W1	C1	8'-0"
26	OFFICE	F4	B2	W1	W1	W1	C1	8'-0"
27	CLASS ROOM	F4	B2	W1	W1	W1	C1	8'-0"
28	MEN'S	F4	B2	W1	W1	W1	C1	8'-0"
30	WOMEN'S	F4	B2	W1	W1	W1	C1	8'-0"
31	COPY/FILES	F4	B2	W1	W1	W1	C1	8'-0"
32	REC.	F4	B2	W1	W1	W1	C1	8'-0"
33	WAITING	F4	B2	W1	W1	W1	C1	8'-0"
34	FILES	F4	B2	W1	W1	W1	C1	8'-0"
35	HALLWAY	F4	B2	W1	W1	W1	C1	8'-0"
36	OPEN STAIR	F4	B2	W1	W1	W1	C1	8'-0"
37	FIRE STAIR	F4	B2	W1	W1	W1	C1	8'-0"

NOTE: GC TO COORDINATE CEILING HEIGHT W/ DUCT WORK

**ROOM FINISHES LEGEND:**

- FLOORS
- F1 PORCELAIN TILE O/ CRACK SUPPRESSION MEMBRANE
  - F2 CARPET (LOW VOC)
  - F3 SEALED CONC.
  - F4 CONC.

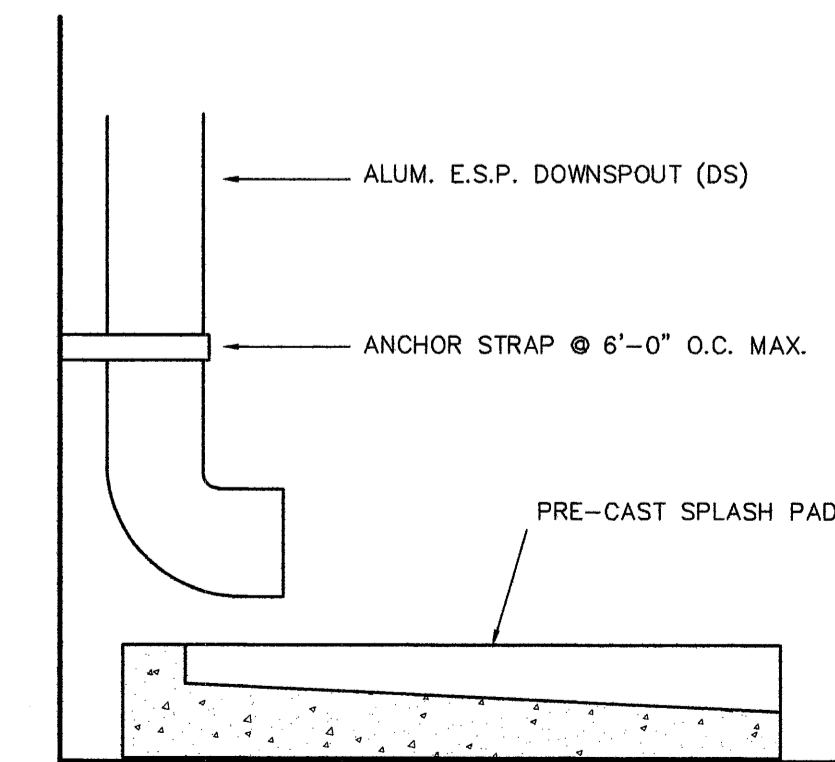
- BASE
- B1 PORCELAIN TILE
  - B2 VINYL
  - B3 4" WOOD

- WALLS
- W1 PAINTED 1/2" GYP. BD.
  - W2 PAINTED 1/2" GREEN BD.
  - W3 STAINLESS STEEL AND GLASSBOARD - .09" WHITE
  - W4 PAINTED CMU

- CEILING
- C1 2'x2' 'P' SUSPENDED ARMSTRONG CORTEGA REGULAR
  - C2 5/8" GYP. BD.
  - C3 5/8" M.R. GYP. BD.

NOTES:  
 INTERIOR WALLS TO BE ORANGE PEEL TEXTURE SATIN FINISH PAINT  
 INTERIOR TRIM PAINT FINISH TO BE SEMI-GLOSS  
 CARPET: 100% NYLON 28 OZ/ SQ. YD., ANTI-STATIC, NO VOC  
 ALL FLOOR TILE WITH RE-ABRASIVE GRIT  
 CERAMIC MOSAIC TILE AT MOP SINK FLOORS, WALLS & CEILING  
 PROVIDE SPARE TILE FOR OWNER USE  
 ALL COUNTER/SINK TOPS TO BE SOLID PLASTIC. (COLOR BY OWNER)  
 TOILET PARTITIONS TO BE SOLID PLASTIC FLUSH PANELS

MATERIAL ALLOWANCES INCLUDED IN BASE BID:



**7 BASE BOARD (TYP.)**  
 40 BC

**5 INTERIOR WALL SECTION**  
 1/2" = 1'-0"

**2 EXTERIOR DOOR SILL**  
 1/2" = 1'-0"

**1 SPLASH DETAIL**  
 1" = 1'-0"

**HARDWARE LIST**  
 NTS

REMARKS

DATE

REV.

PHASE - II  
 MANATEE  
 FLEET SERVICES  
 1100 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yehuda Inbar AIA  
 Inbar architect AIA

Checked by:  
 Al Meronek

Date:  
 03-17-09

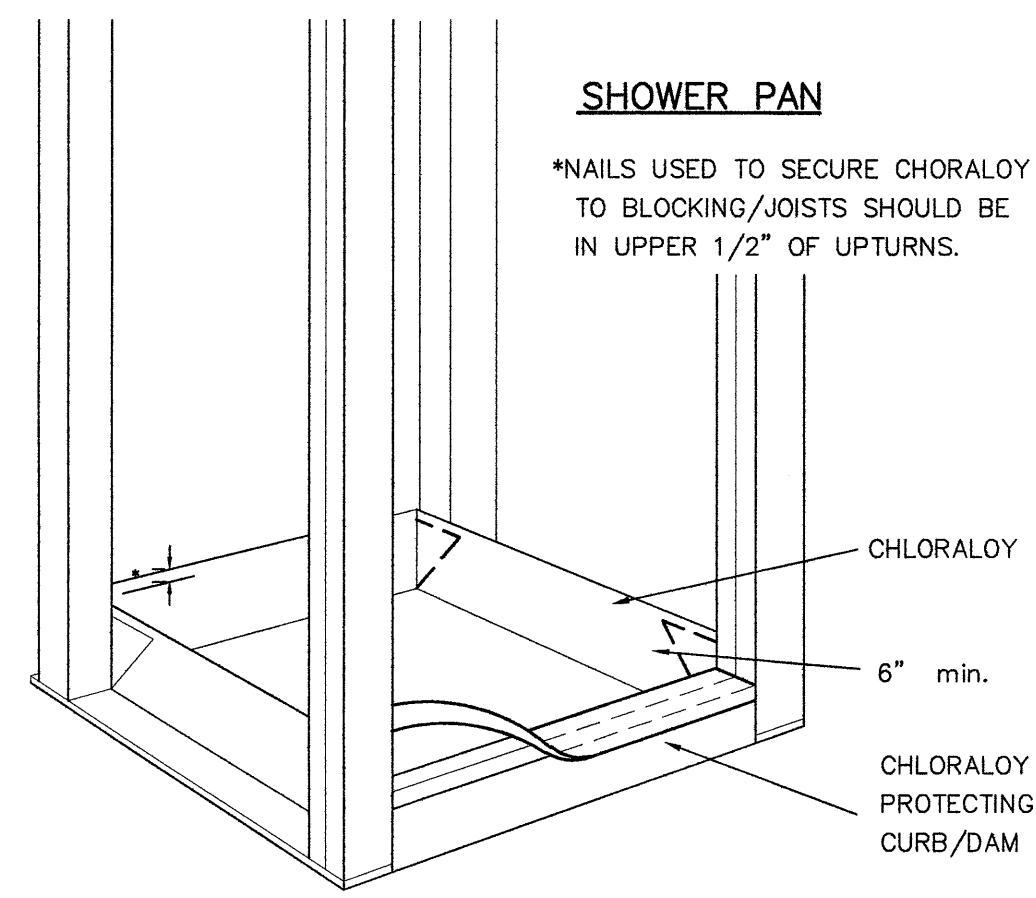
Alan John Meronek  
 AR 91853

Expires 2-28-2011

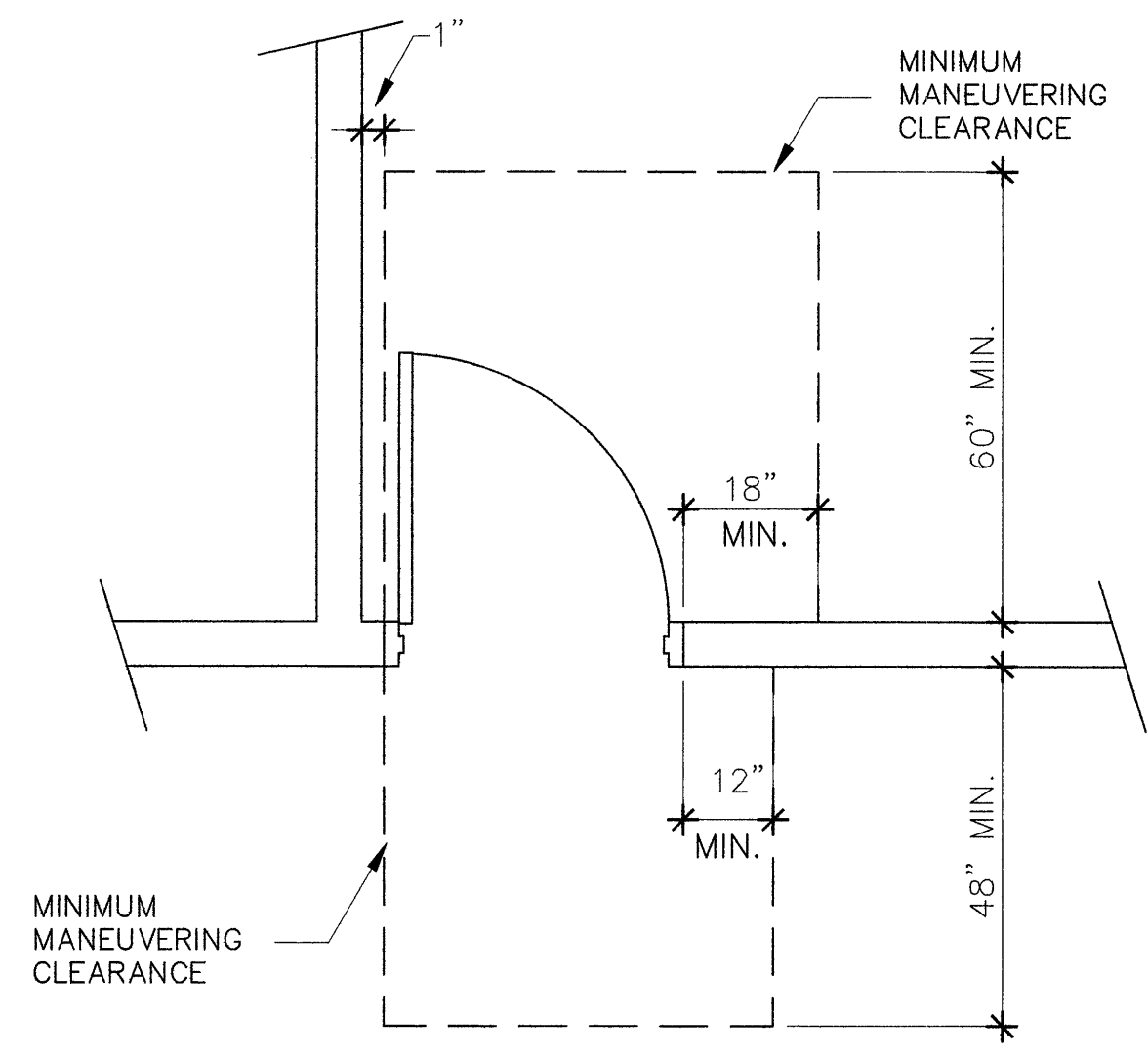
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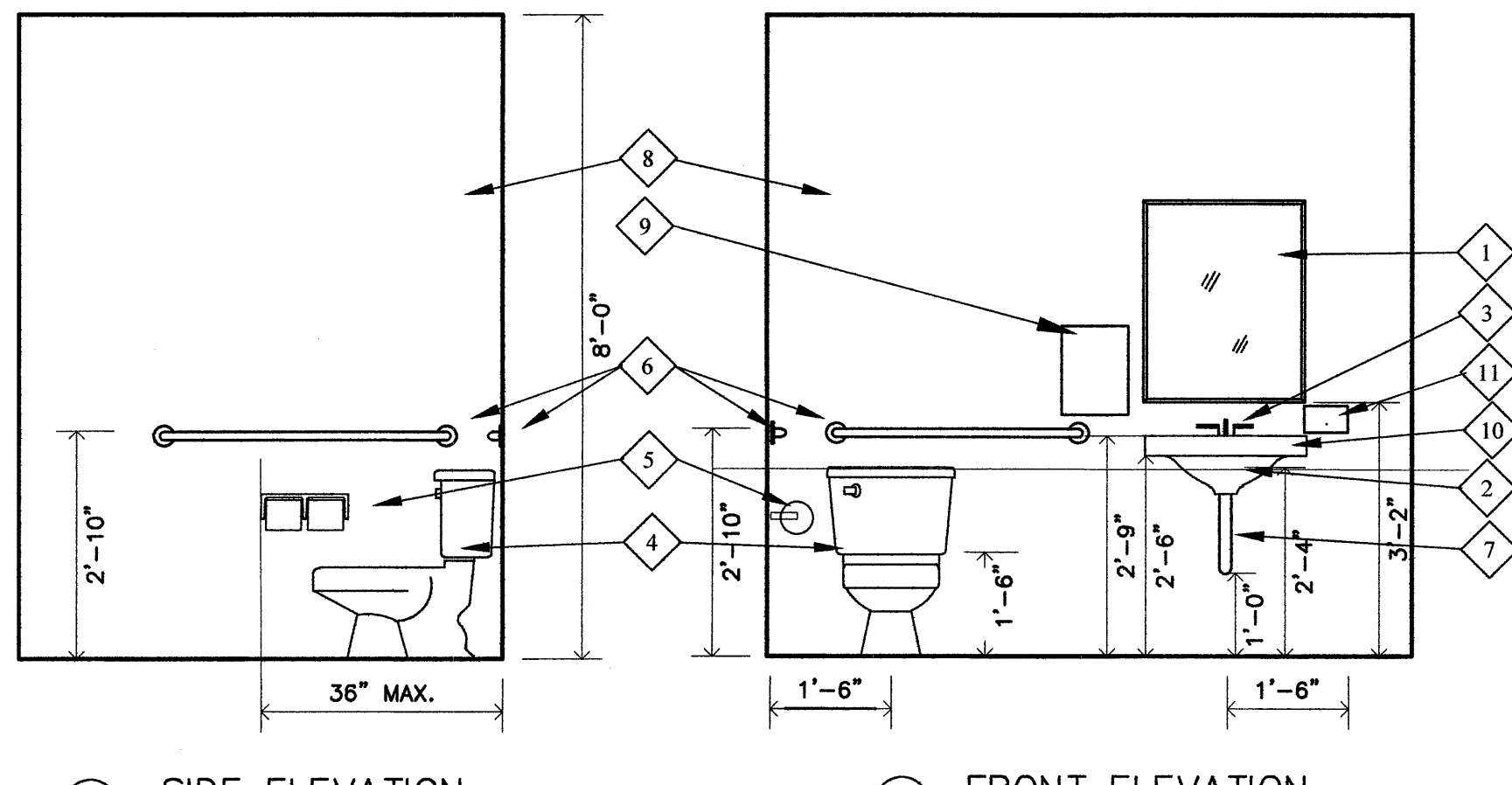
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**10** SHOWER PAN DETAIL  
1/2" = 1'-0"

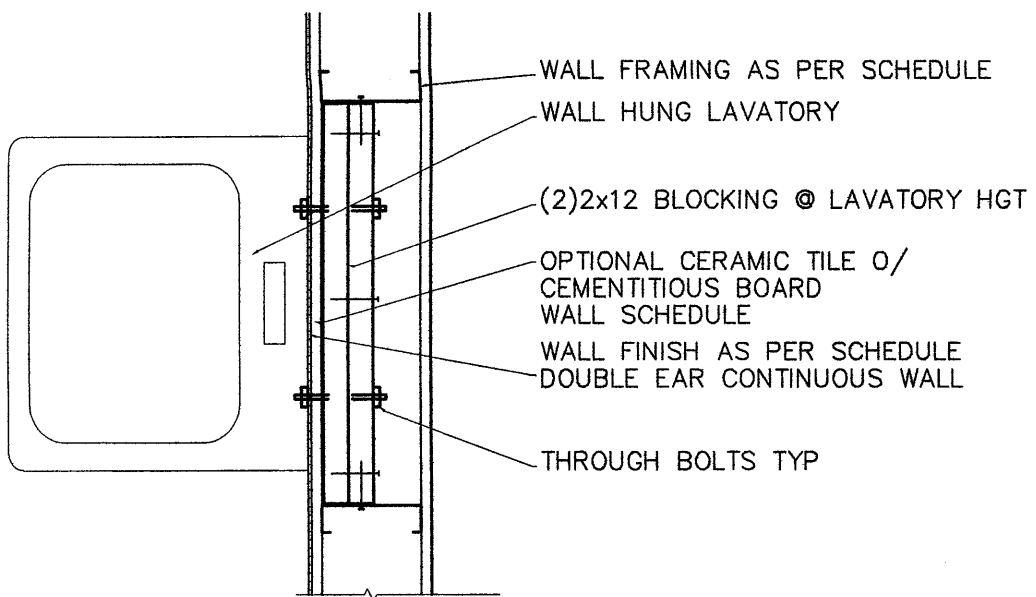


**2** MINIMUM MANEUVERING CLEARANCE AT DOOR DETAIL  
1-1/2" = 1'-0"

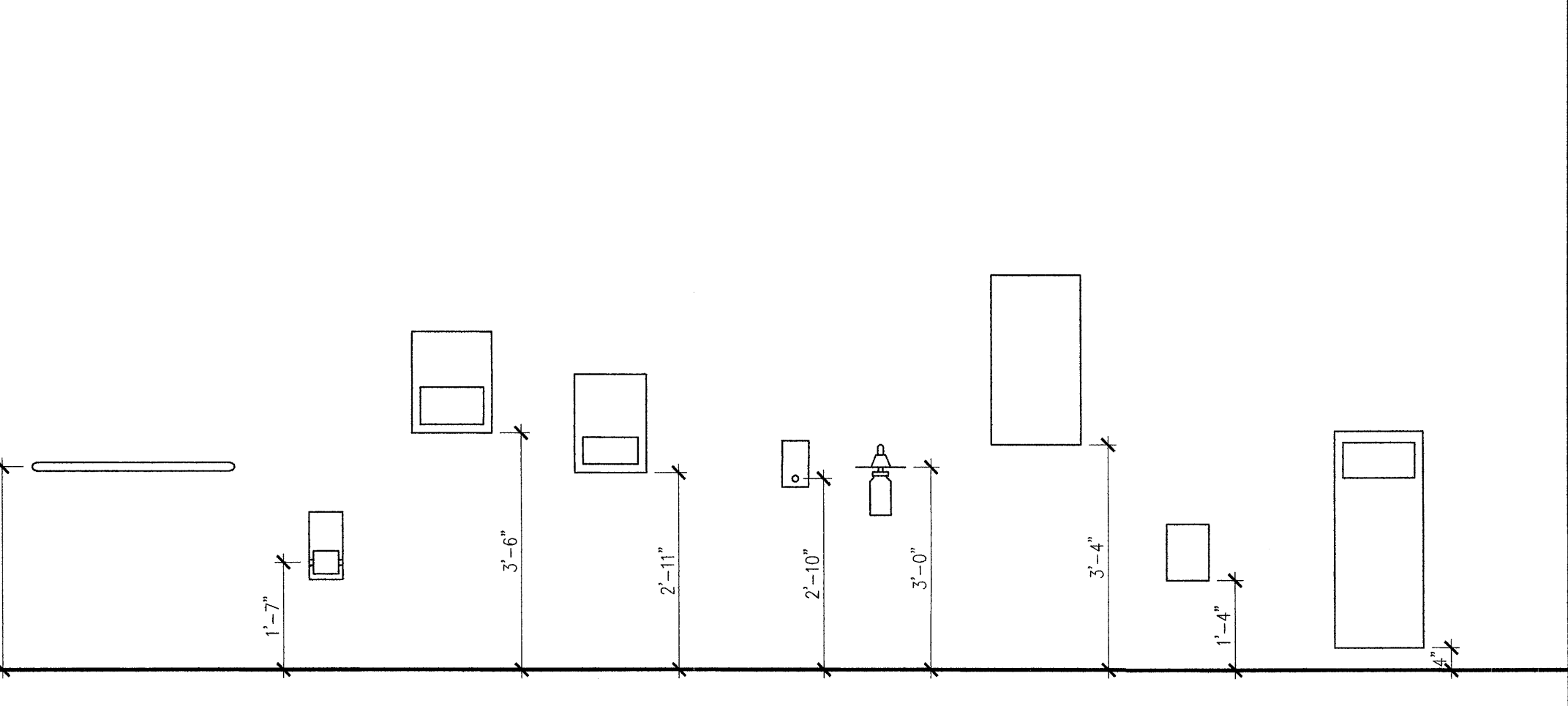


- 1 MIRROR AND SHELF
- 2 H- CAP LAV 19"x17" WALL MTD TO SOLID BLK'G W/ A.D.A. APPROVED FAUCET
- 3 H- CAP WATER CLOSET
- 4 TP HOLDER TYPICAL FOR EACH STALL
- 5 H- CAP GRAB BARS: 42" SIDE, 36" REAR, 1-1/2" DIA. MTD TO SOLID BLK'G CAPABLE OF SUPPORTING 250 LB.
- 6 EXPOSED DRAIN & HOT WATER PIPES SHALL BE INSULATED PER ANSI A117.1 (4.19.4)
- 7 NON- ABSORBENT WASHABLE FINISH ON ALL SURFACES
- 8 PAPER TOWEL DISPENSER W/ TRASH BIN
- 9 LAVATORY W/ ADA APPROVED FAUCET
- 10 SOAP DISPENSER

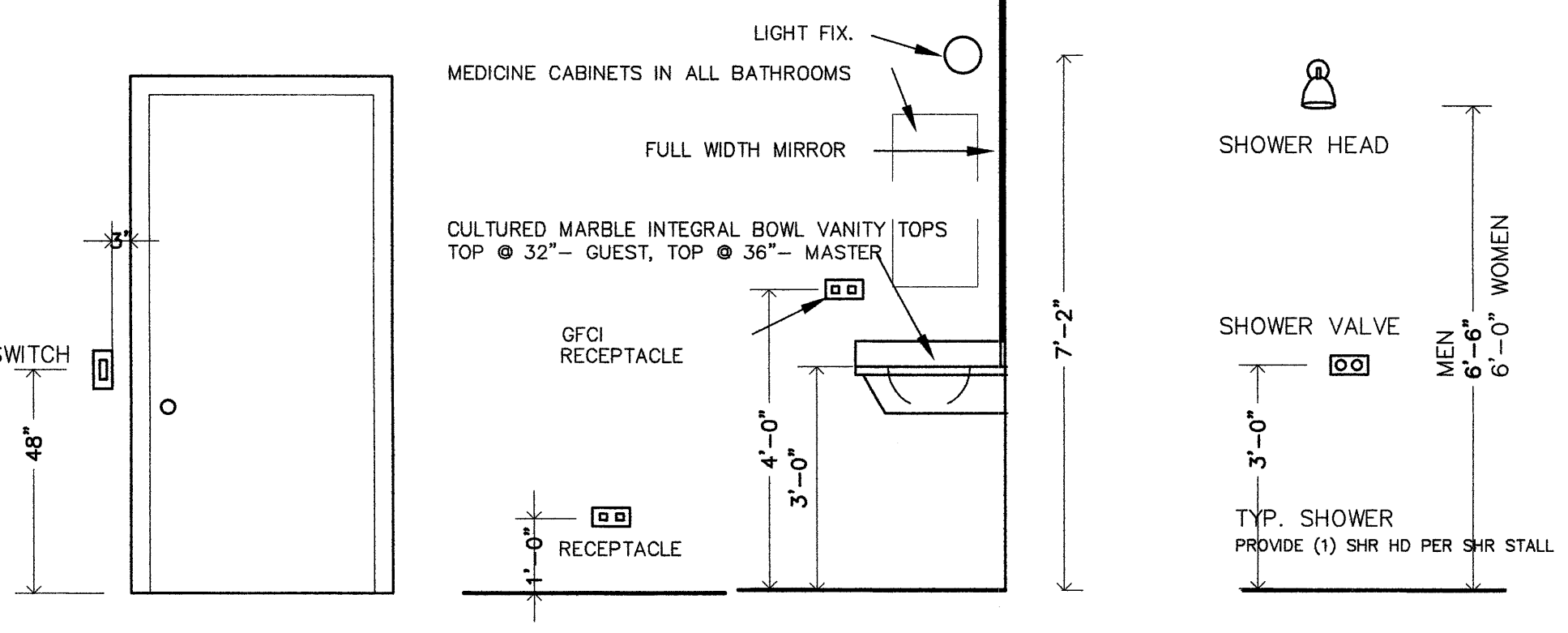
**1** ADA TOILET ELEVATIONS  
1/2" = 1'-0"



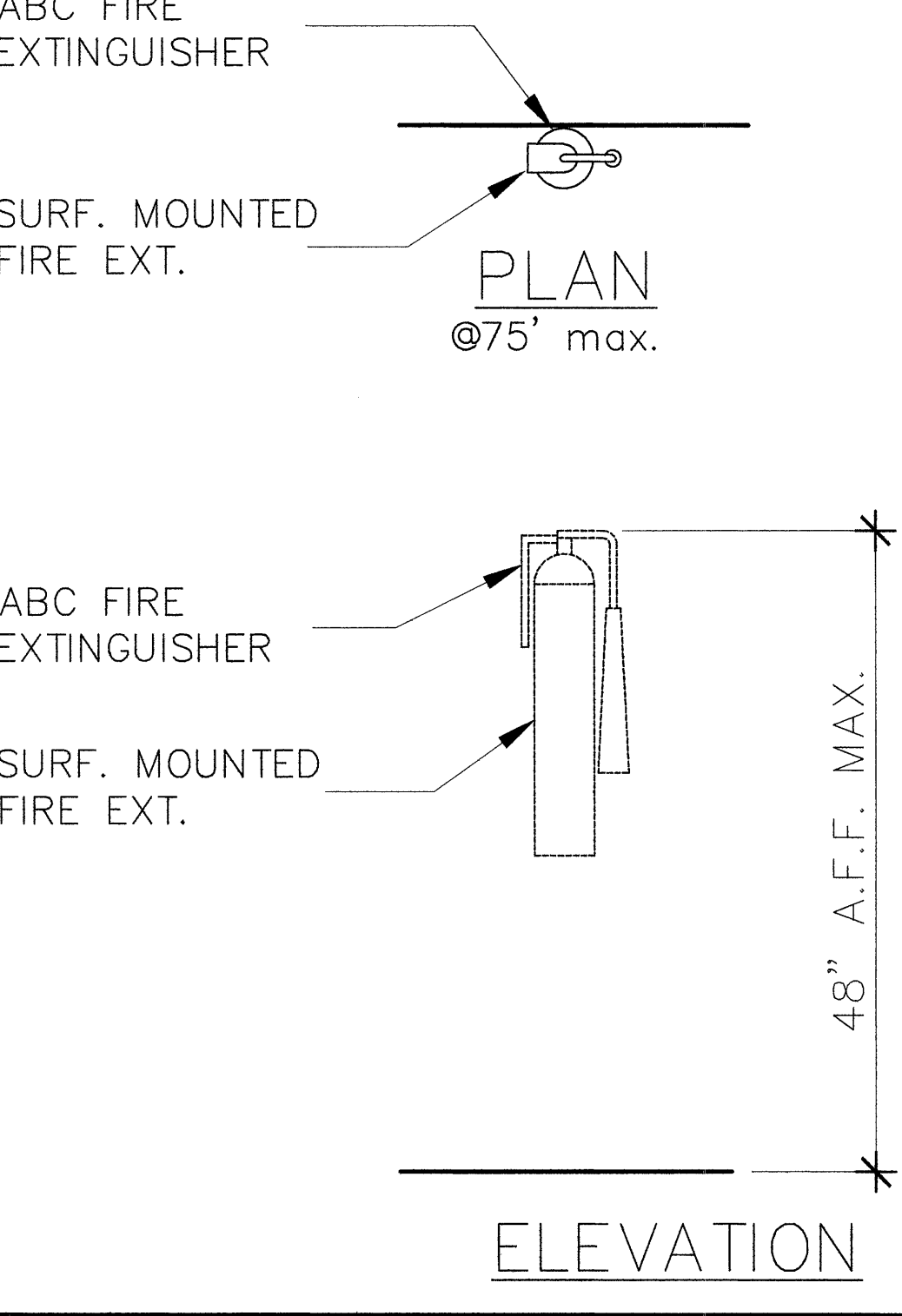
**9** LAVATORIES ON STUD WALL  
1/2" = 1'-0"



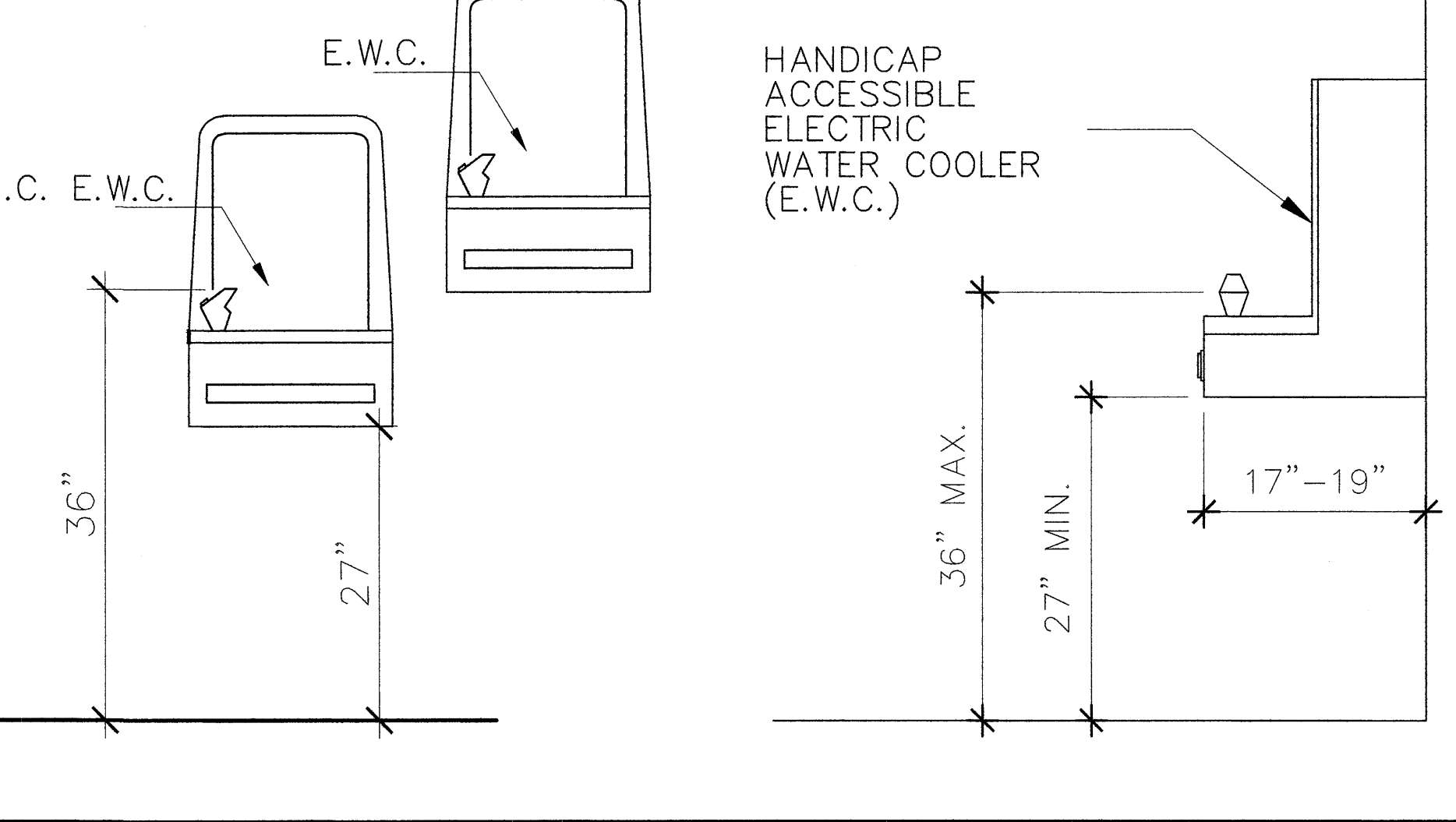
**4** MOUNTING HEIGHTS  
1/2" = 1'-0"



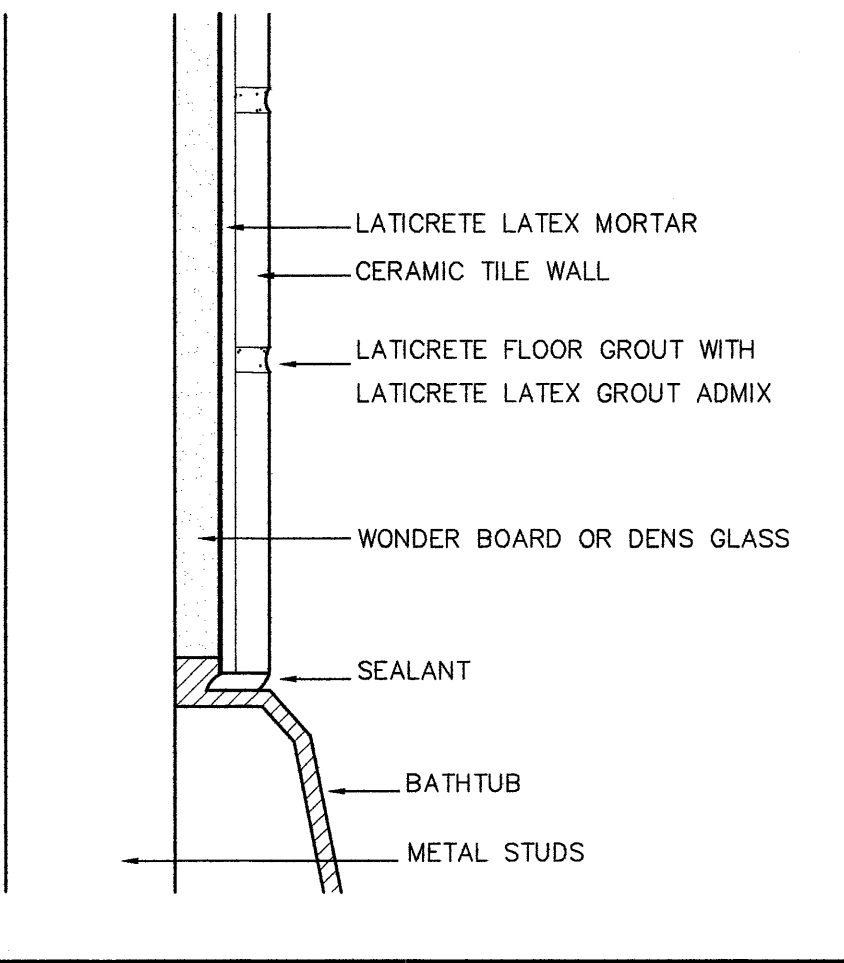
**3** MOUNTING HEIGHT  
1/2" = 1'-0"



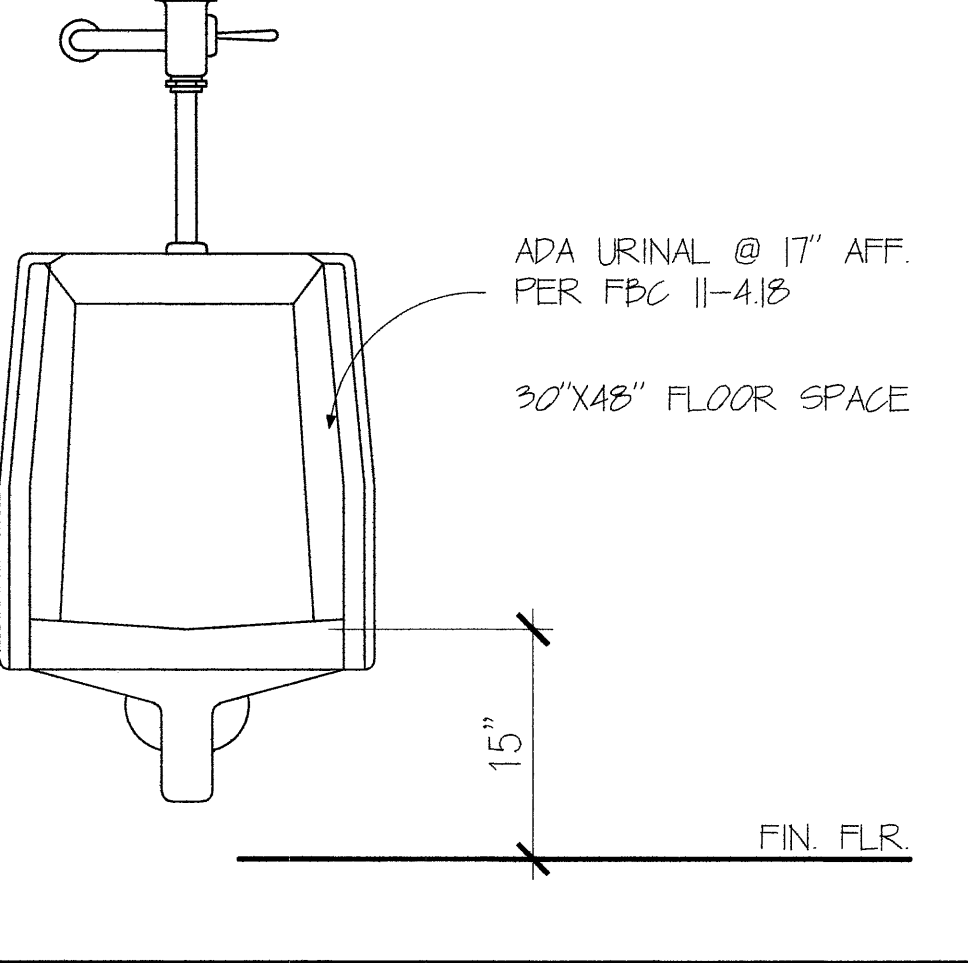
**7** FIRE EXTINGUISHER DETAIL  
40 BC



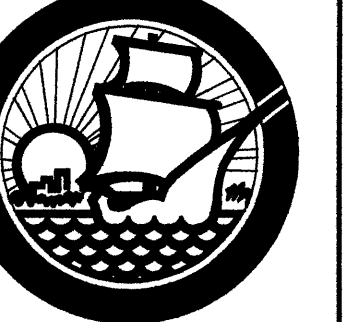
**6** ACCESSIBLE E.W.C. DETAIL  
1/2" = 1'-0"



**8** JAN. CL./ WALL DETAILS  
1 1/2" = 1'-0"



**5** H/C ACCESSIBLE URINAL  
NTS



Facilities Management  
1112 Manatee Avenue West  
Suite 803, P.O. Box 1000  
Bradenton, Florida 34206  
(941) 748-4501  
FAX (941) 742-5880

REMARKS  
FINAL PLAN APPROVAL:

DATE

REV.

PHASE - II  
MANATEE  
FLEET SERVICES  
1100 26TH AV. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by:  
Al Meronek

Date 03-17-09

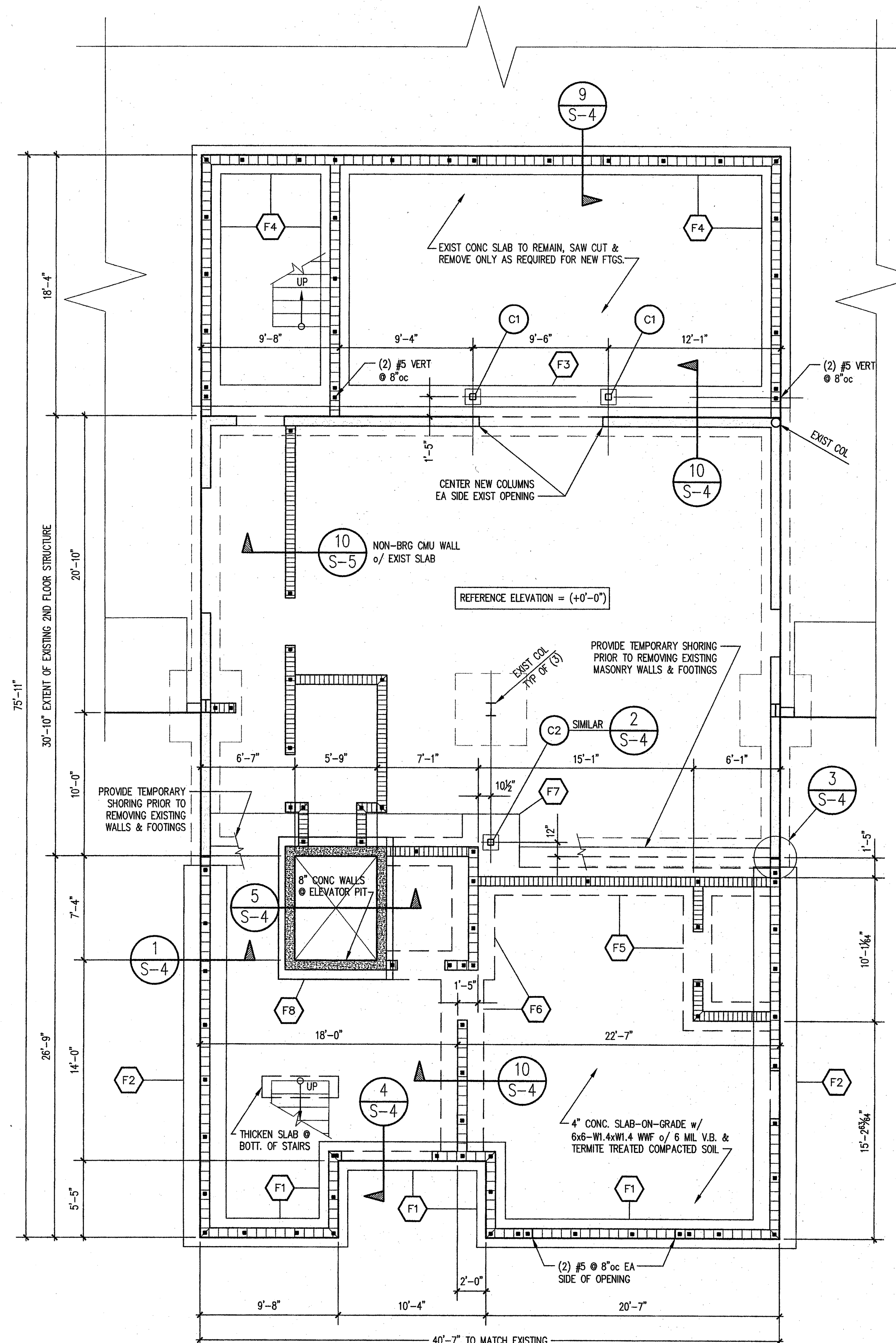
Alan John Meronek  
AR 91853

Expires 2-28-2011

Scale

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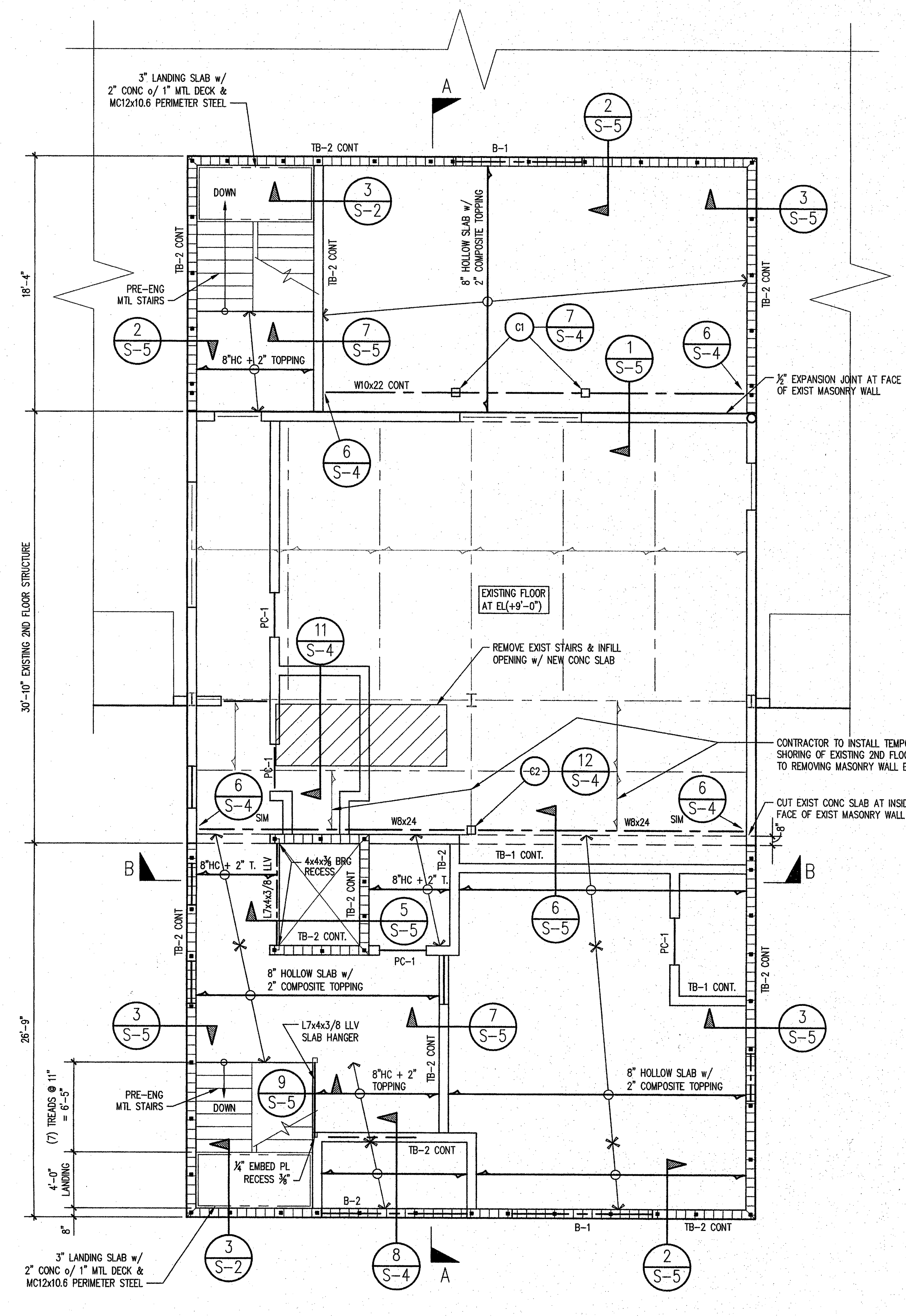


**FOUNDATION PLAN**

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

**FOUNDATION PLAN NOTES:**

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS & ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO BEGINNING WORK.
2. ALL ELEVATIONS SHOWN ON THESE PLANS REFERENCE THE EXISTING GROUND FLOOR SLAB AT EL(+0'-0").
3. REFER TO STRUCTURAL NOTES ON SHEET S-6 FOR ADDITIONAL INFORMATION.
4. DIMENSIONS ARE TO FACE OF BLOCK OR TO COLUMN CENTERLINES. ALL COLUMNS AND WALLS SHALL BE CENTERED ON FOOTINGS UNLESS NOTED OTHERWISE.
5. PLAN MARKS SHOWN THUS  $\text{F}_x$  INDICATE FOOTINGS AS DESCRIBED IN FOOTING SCHEDULE ON SHEET S-2.
6. PLAN MARKS SHOWN THUS  $\text{C}_x$  INDICATE STEEL COLUMNS AS DESCRIBED IN COLUMN SCHEDULE ON SHEET S-2.
7. SAW CUT CONTROL JOINTS IN CONCRETE SLAB-ON-GRADE @ 15'-0" EA. WAY.
8.  $\text{---}$  INDICATES 8" CMU WALLS w/ #5 VERTICAL REINFORCING @ 4'-0"oc AND ALL CORNERS, INTERSECTIONS AND AS INDICATED BY FILLED-CELL SYMBOL.
9.  $\text{---}$  INDICATES EXISTING 8" CMU WALL.
10.  $\text{---}$  INDICATES 8" CMU INFILL WALLS w/ #5 VERTICAL REINFORCING @ 12'-0"oc AND ALL CORNERS, INTERSECTIONS AND AS INDICATED BY FILLED-CELL SYMBOL.
11.  $\text{---}$  INDICATES 8" FORMED & POURED CONCRETE WALL w/ TWO LAYERS OF #5 BARS @ 12"oc EA WAY PLACED w/ 3/4" CLEAR COVER AT INSIDE FACE & 1 1/2" CLEAR COVER AT OUTSIDE FACE.



**2ND FLOOR FRAMING PLAN**

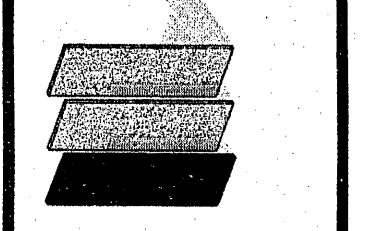
SCALE: 3/16" = 1'-0"

**2ND FLOOR FRAMING PLAN NOTES:**

1. TOP OF ALL CMU WALLS AT FIRST FLOOR ARE AT EL(+8'-2") UNLESS NOTED OTHERWISE. SEE BEAM SCHEDULE ON SHEET S-2 FOR TIE-BEAM SIZES & REINFORCING STEEL.
2. FINISHED FLOOR ELEVATION AT SECOND FLOOR TO MATCH EXISTING FLOOR @ EL(+9'-0"). CONTRACTOR TO FIELD VERIFY.
3. PLAN MARKS INDICATED THUS  $\text{C}_x$  INDICATES STEEL COLUMN BELOW. SEE COLUMN SCHEDULE ON SHEET S-2.
4.  $\text{---}$  INDICATES 8" CMU WALL ABOVE w/ #5 VERTICAL REINFORCING @ 4'-0"oc AND ALL CORNERS, INTERSECTIONS AND AS INDICATED BY FILLED-CELL SYMBOL.
5.  $\text{---}$  INDICATES 8" CMU WALL BELOW. SEE FOUNDATION PLAN FOR REINFORCING REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE ENGINEERING DESIGN FOR TEMPORARY SHORING. SUBMIT SIGNED & SEALED SHORING PLANS TO OWNER FOR REVIEW & APPROVAL PRIOR TO ANY DEMOLITION.
7. PRE-CAST HOLLOW CORE FLOOR SLABS SHALL HAVE 2 HOUR FIRE RATING.
8. SEE SHEET S-6 FOR STRUCTURAL NOTES & ADDITIONAL INFORMATION.

GLENN W. WARBURTON  
PROFESSIONAL ENGINEER #49023  
SIGNATURE  
4/21/2009

**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS  
LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS  
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REVISIONS

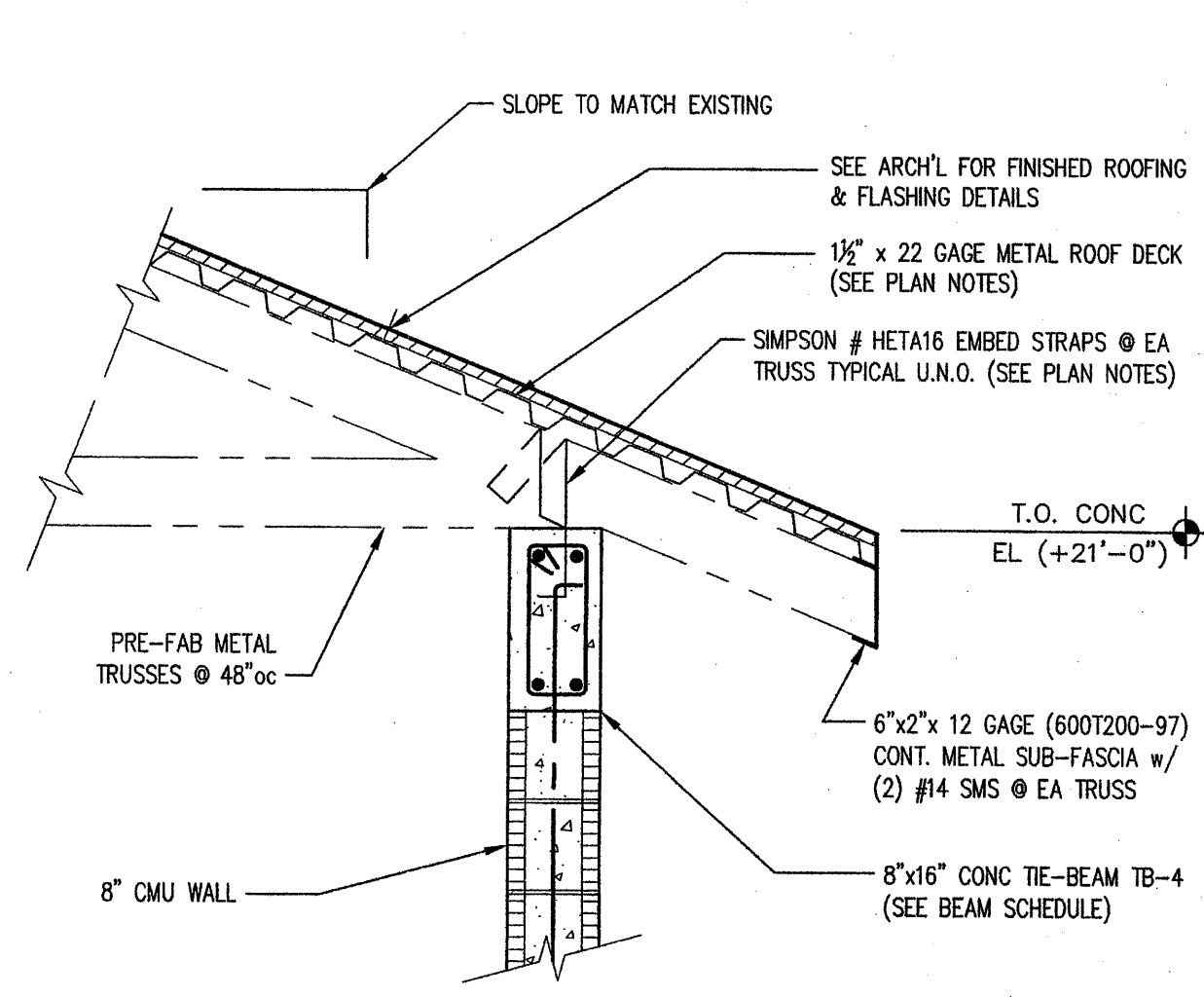
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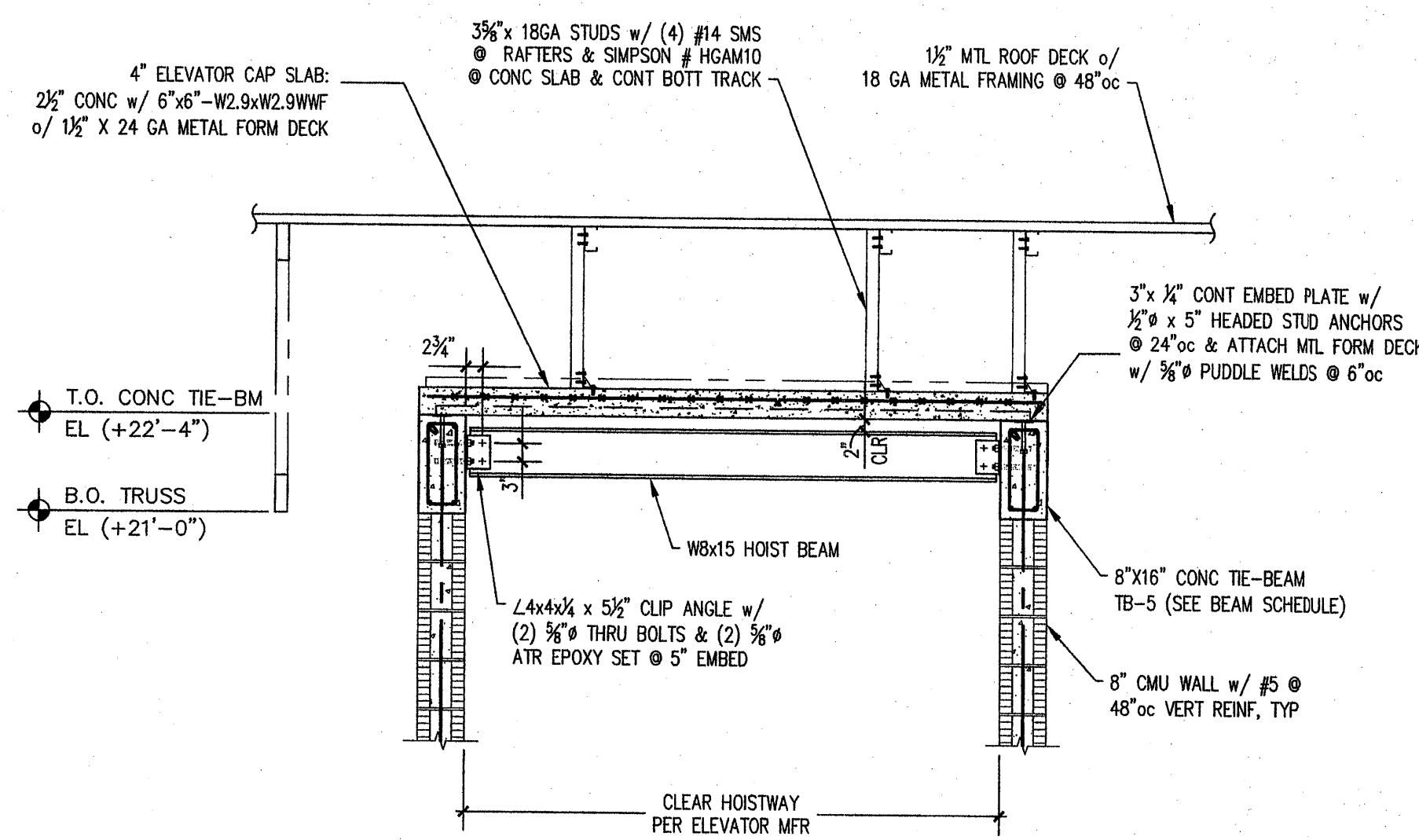
**STRUCTURAL RENOVATION**  
FOR  
**MANATEE COUNTY FLEET SERVICES**  
LOCATED AT  
1100 26TH AVE EAST, BRADENTON, FLORIDA

DESIGNED: BAT  
DRAWN: JDC  
DATE: 3/22/09  
JOB NO.: 00-40841  
SCALE: AS SHOWN

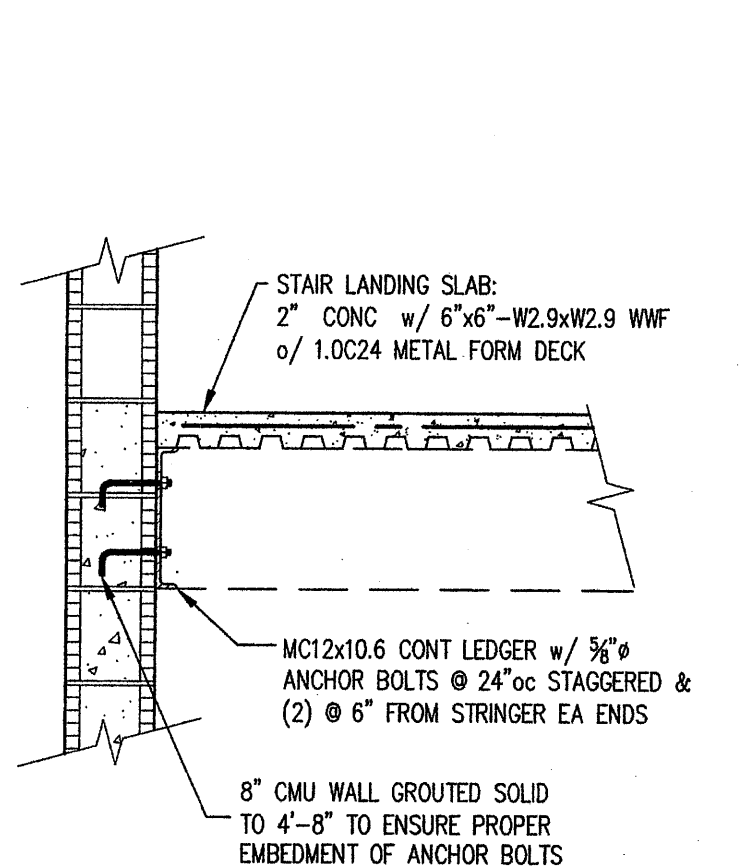
SHEET  
**S-1**



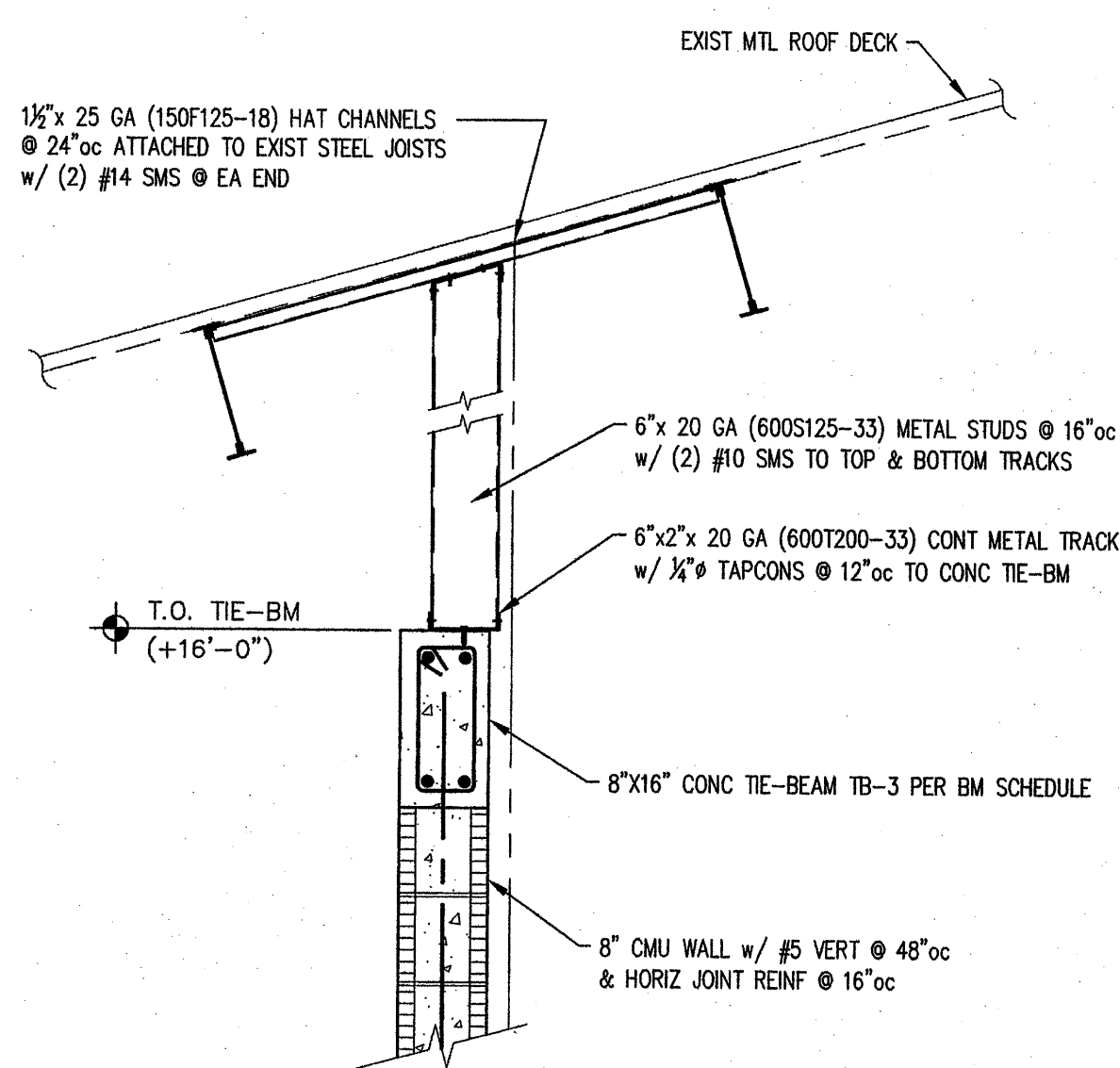
1 ROOF PERIMETER SECTION  
SCALE: 3/4" = 1'-0"



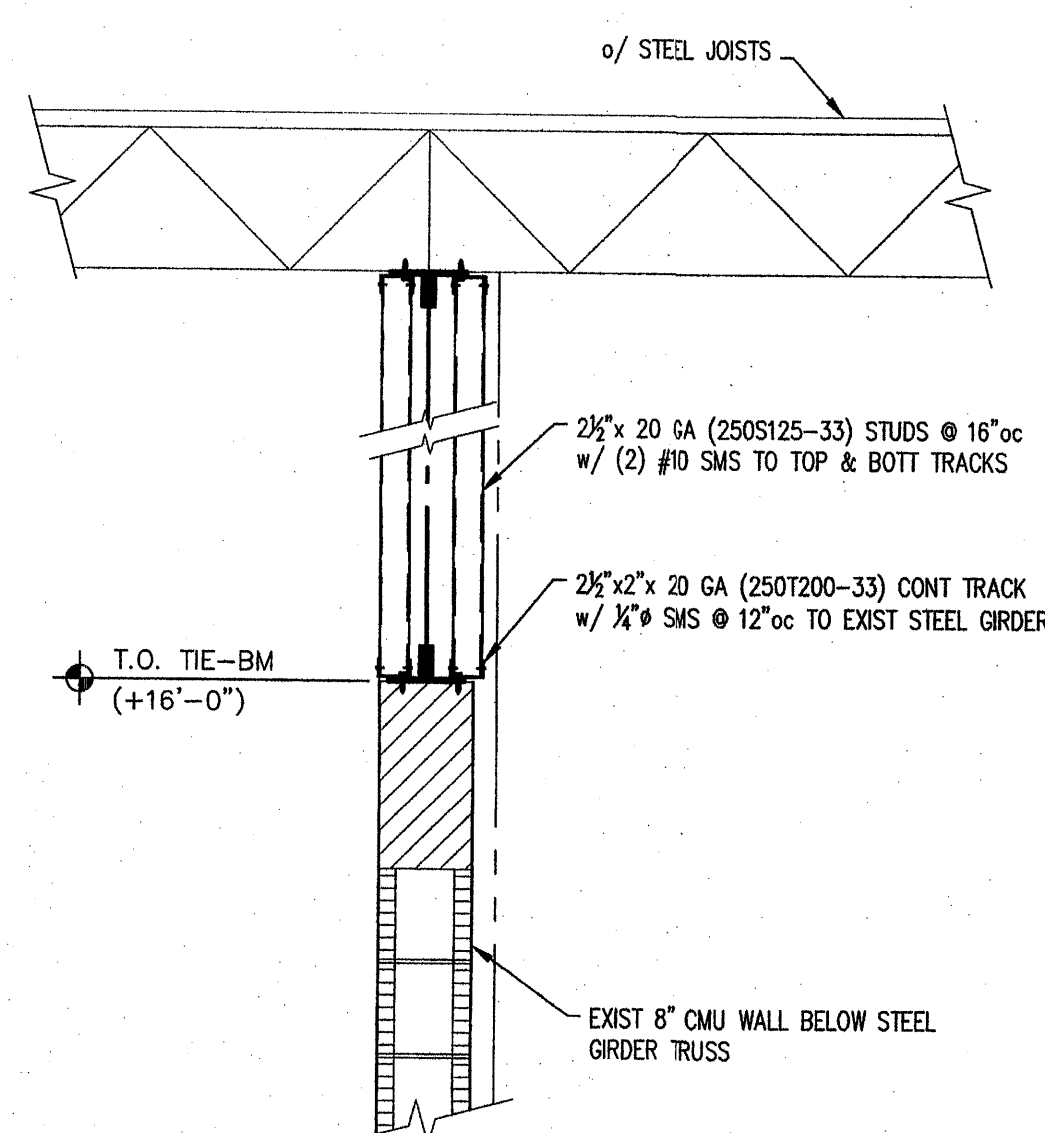
2 ELEVATOR SHAFT AT ROOF  
SCALE: 1/2" = 1'-0"



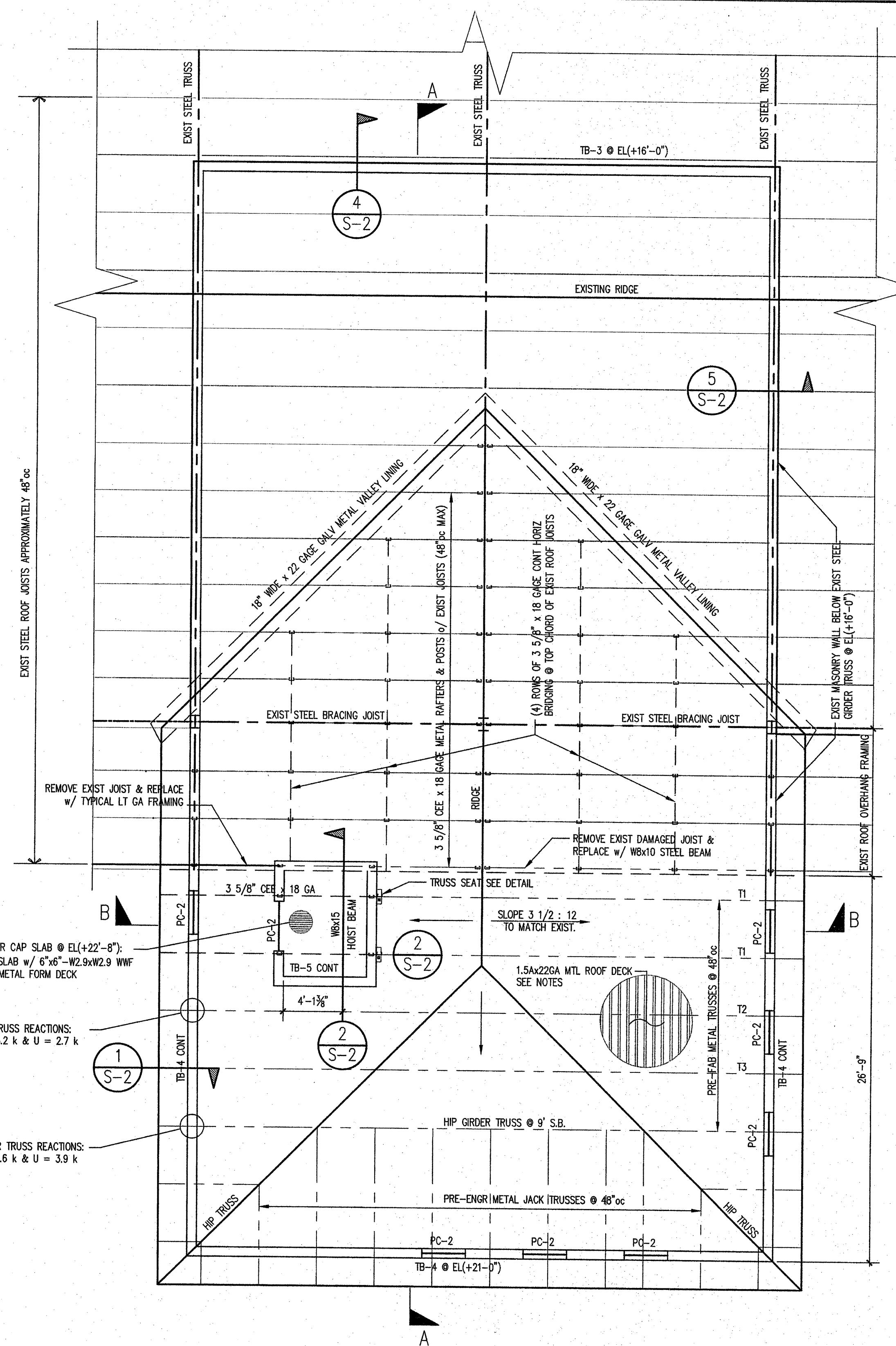
3 STAIR LANDING DETAIL  
SCALE: 3/4" = 1'-0"



4 LT-GA METAL CLOSURE WALL  
SCALE: 3/4" = 1'-0"



5 CLOSURE WALL @ EXIST GIRDER  
SCALE: 3/4" = 1'-0"



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

- ROOF FRAMING PLAN NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL INFORMATION.
  - ALL ELEVATIONS SHOWN THESE PLANS REFERENCE THE GROUND FLOOR SLAB AT EL(+0'-0").
  - SEE SHEET S-6 FOR STRUCTURAL NOTES & ADDITIONAL INFORMATION.
  - ROOF DECK SHALL BE 1.5" x 22 GAGE TYPE A (NARROW RIB) GALV. STEEL w/ #12 SCREWS @ EA SUPPORT IN 36" FASTENER & (2) #10 SCREWS @ EA SIDELAP.
  - ROOF TRUSSES SHALL BE PRE-MANUFACTURED OF LIGHT GAUGE METAL w/ 6"x18 GAGE MIN. TOP CHORDS. TRUSS DESIGN IS HEREBY DELEGATED TO A PROFESSIONAL ENGINEER TO COMPLY WITH THIS FRAMING PLAN AND THE DESIGN LOADS SPECIFIED IN STRUCTURAL NOTES ON S-6.
  - PLANS INDICATE TRUSS REACTIONS AS FOLLOWS:  
R=XXX @ GRAVITY LOADS GREATER THAN 5.0 KIPS.  
U=XXX @ WIND UPLIFTS GREATER THAN 1.0 KIPS.
  - PROVIDE TRUSS HOLDDOWNS AS FOLLOWS:  
JACK TRUSSES & HIP JACKS - (1) SIMPSON #HETA16 EMBED STRAP w/ (9) #10 TEXS SCREWS  
TYPICAL TRUSSES T1, T2 & T3 - (2) SIMPSON #HETA16 EMBED STRAPS w/ (10) #10 TEXS SCREWS  
HIP GIRDER TRUSS - SIMPSON #HGT-2 SADDLE w/ (2) 3/4" ATR EPOXY SET ATR @ 8" MIN EMBED
  - TOP OF CMU WALLS AT SECOND FLOOR ARE AT EL(+21'-0") UNLESS NOTED OTHERWISE. SEE BEAM SCHEDULE ON SHEET S-2 FOR TIE-BEAM SIZES & REINFORCING.
  - INDICATES 8" CMU WALL BELOW.

FOOTING SCHEDULE				
MARK	SIZE (WxD)	REINFORCING	ELEVATION	REMARKS
F1	24"x12" CONT	(3) #5 CONT. BOTT.	(-1'-4")	8" CMU STEMWALL GROUTED SOLID BELOW FLOOR SLAB EL.
F2	36"x12" CONT	(3) #5 CONT. BOTT.	(-1'-4")	8" CMU STEMWALL GROUTED SOLID BELOW FLOOR SLAB EL.
F3	18"x20" CONT	(2) #7 CONT. TOP & BOTT w/ #3 TIES @ 8"oc	(+0'-0")	1/2" ISOLATION JOINT EA SIDE @ EXIST SLAB
F4	24"x12" CONT	(3) #5 CONT. BOTT.	(+0'-0")	1/2" ISOLATION JOINT EA SIDE @ EXIST SLAB
F5	16"x12" CONT	(2) #5 CONT. BOTT.	(+0'-0")	MONOLITHIC w/ FLOOR SLAB
F6	36"x12" CONT	(3) #5 CONT. BOTT.	(+0'-0")	MONOLITHIC w/ FLOOR SLAB
F7	48" SQ. x12"	(4) #5 EA WAY BOTT.	(+0'-0")	1/2" I.J. @ EXISTING SLAB OR MONOLITHIC w/ NEW FLOOR SLAB
F8	8'-0"x10'-0"x12"	#5 @ 12"oc EA WAY TOP & BOTT.	(-4'-0")	PROVIDE 3"x1 1/2" KEYWAY w/ WATERSTOP @ 8" CONCRETE PIT WALL

NOTES:  
1. ELEVATIONS ARE TO TOP OF FOOTING RELATIVE TO FLOOR SLAB.

COLUMN SCHEDULE				
MARK	SIZE	BASE PLATE	CAP PLATE	REMARKS
C1	HSS 4x4x1/4	10"x10"x1" PLATE w/ (4) 3/4" ANCHOR BOLTS	5"x9"x3/8" STEEL PLATE w/ (4) 5/8" THRU BOLTS	STRUCTURAL STEEL TUBING
C2	HSS 4x4x1/4	10"x10"x1" PLATE w/ (4) 3/4" ANCHOR BOLTS	5"x5"x1/4" STEEL PLATE w/ FIELD WELDS TO EXIST BEAM	STRUCTURAL STEEL TUBING

NOTES:  
1. BASE PLATES LOCATED 1" ABOVE TOP OF FOOTING TO ALLOW FOR NON-SHRINK GROUT.

BEAM SCHEDULE					
MARK	ELEVATION	SIZE (WxD)	REINFORCING	STIRRUPS	REMARKS
B-1	(+8'-2")	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 6"oc	FORM & POUR CONC.
B-2	(+9'-0")	8"x10"	(2) #5 CONT. TOP & BOTT EXTEND TOP BARS 36" EA END	#3 @ 6"oc	FORM & POUR CONC.
TB-1	(+8'-2")	8"x8"	(1) #5 CONT.	-	FORM & POUR CONC @ ALL NON-LOAD BEARING INFILL WALLS
TB-2	(+8'-2")	8"x18"	(2) #5 CONT. TOP & BOTT	#3 @ 12"oc	FORM & POUR CONC.
TB-3	(+16'-0")	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 12"oc	FORM & POUR CONC.
TB-4	(+21'-0")	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 12"oc	FORM & POUR CONC.
TB-5	(+22'-4")	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 12"oc	FORM & POUR CONC.
PC-1	(+7'-4")	8"x8"	(1) #5 BOTTOM	-	PRE-CAST LINTEL w/ 1 1/2" RECESS @ DOOR OPENINGS
PC-2	(+16'-4")	8"x8"	(1) #5 BOTTOM	-	PRE-CAST LINTEL GROUTED SOLID

NOTES:  
1. PROVIDE CORNER BARS TO MATCH CONT. STEEL @ ALL BEAM CORNERS & INTERSECTIONS PER DETAILS ON SHEET S-6.  
2. ELEVATIONS ARE TO TOP OF BEAM.

GLENN W. WAREHOUTON  
PROFESSIONAL ENGINEER  
#46023  
4/21/2009

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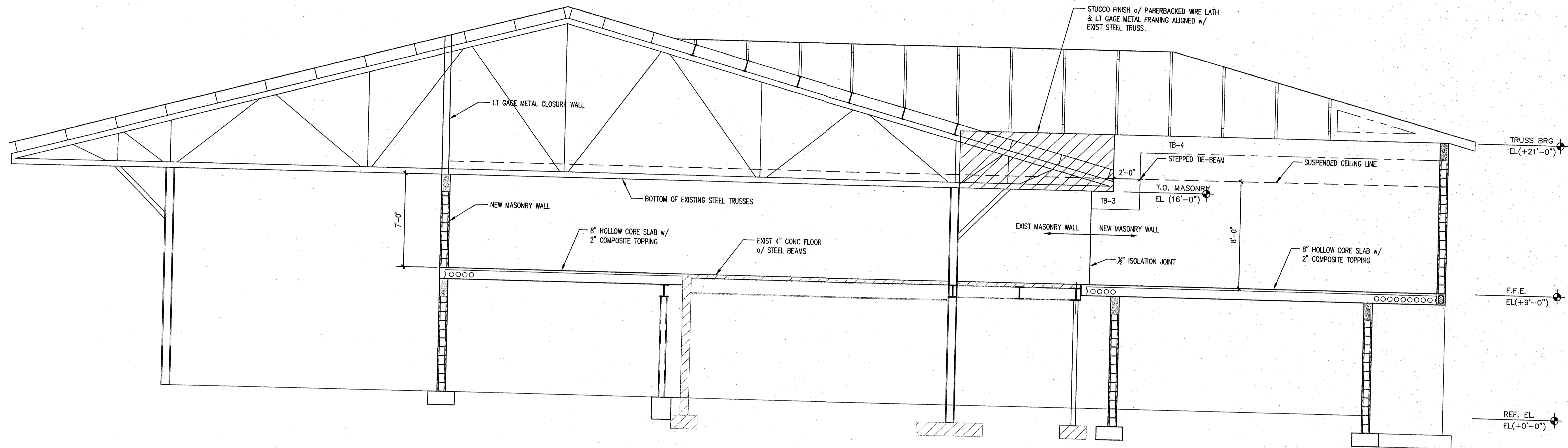
REVISIONS

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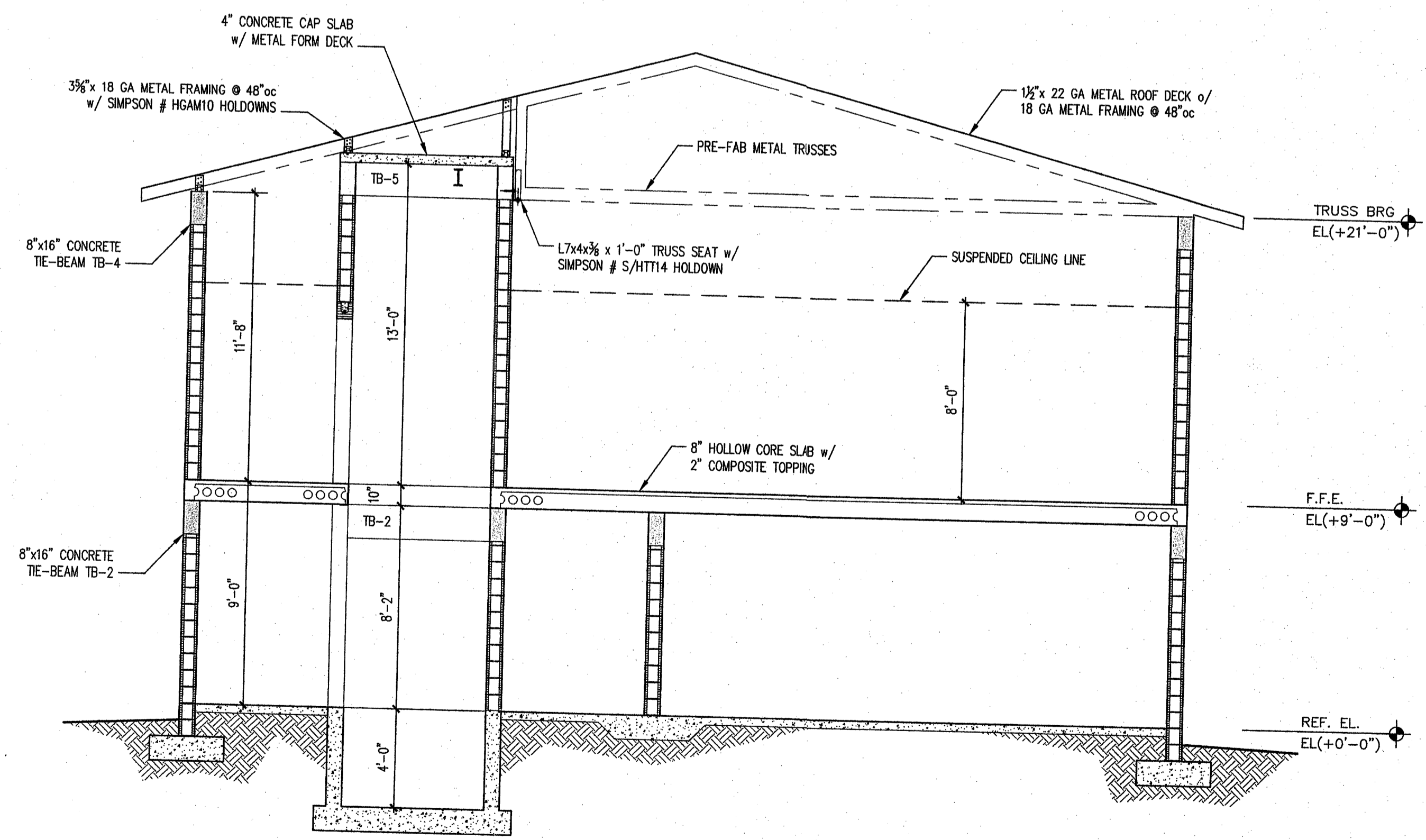
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**STRUCTURAL RENOVATION**  
FOR  
**MANATEE COUNTY FLEET SERVICES**  
LOCATED AT  
1100 26TH AVE EAST, BRADENTON, FLORIDA

DESIGNED: BAT  
DRAWN: JDC  
DATE: 3/20/09  
JOB NO.: 00-10841  
SCALE: AS SHOWN  
SHEET  
**S-2**



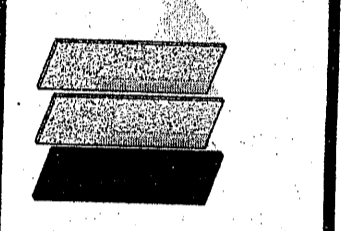
**BUILDING SECTION A-A**  
SCALE: 1/4" = 1'-0"



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

CLEWIS W. WARDLINGTON  
PROFESSIONAL ENGINEER #10023  
SIGNATURE  
4/21/2009

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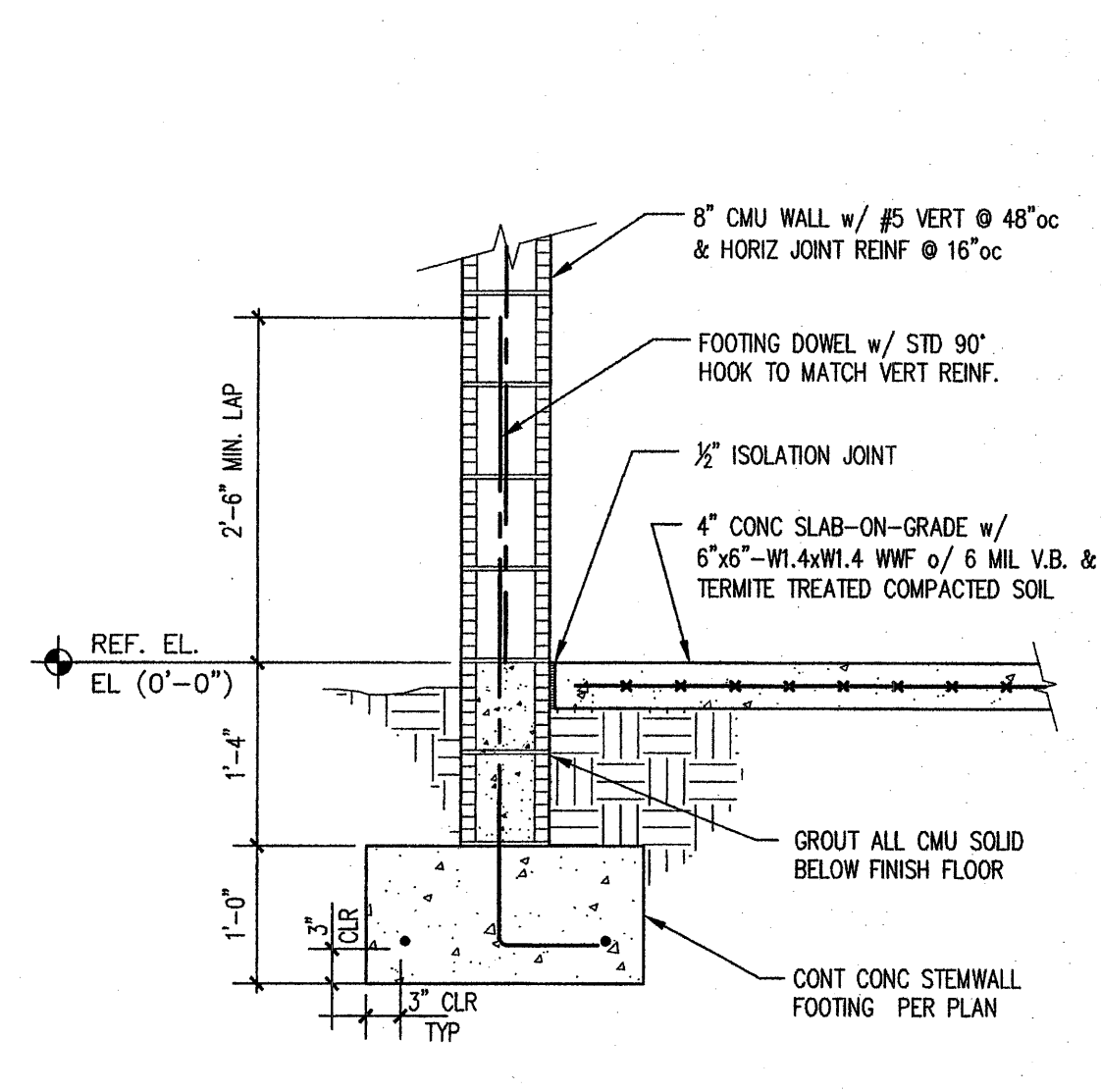
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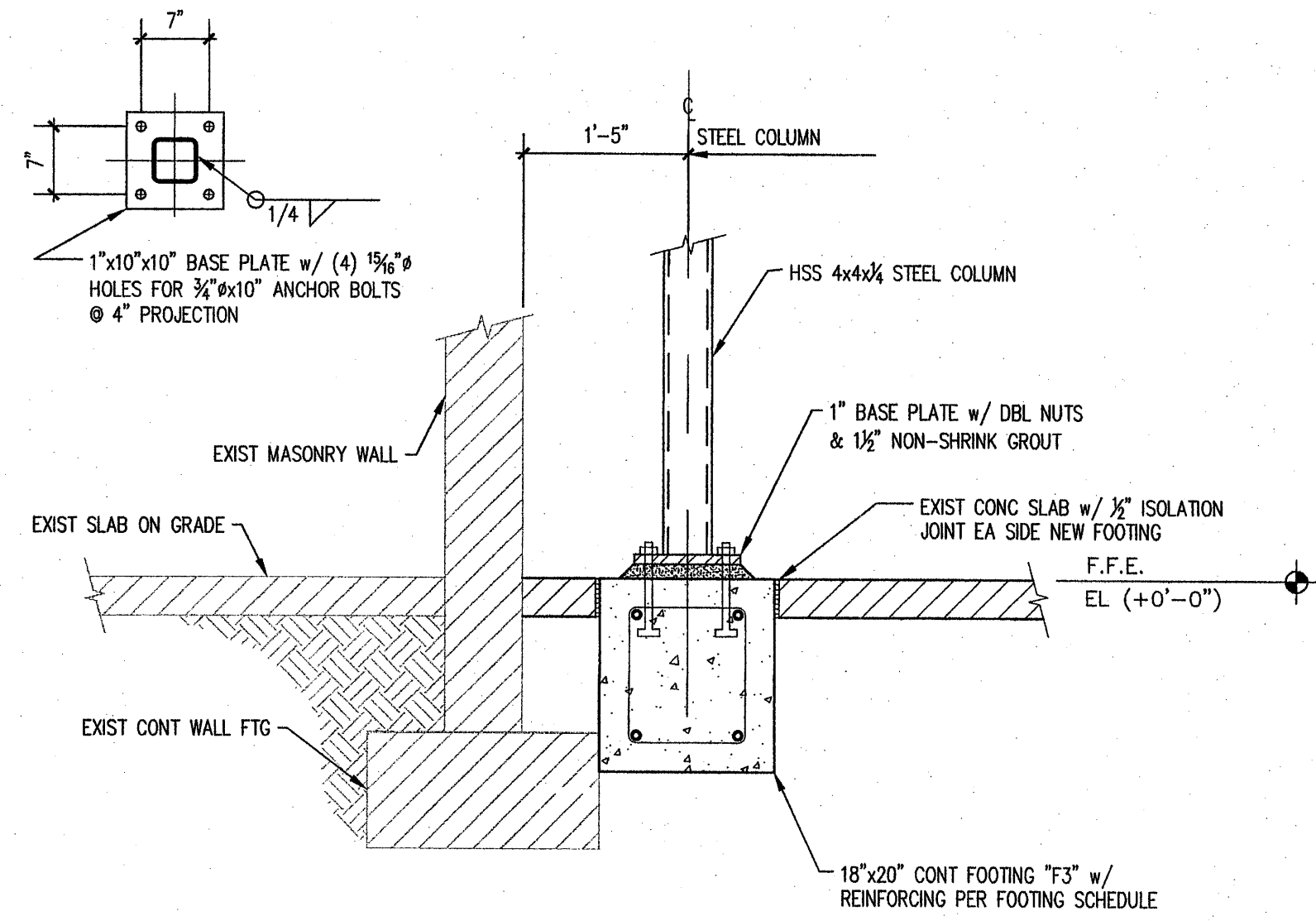
STRUCTURAL RENOVATION  
FOR  
**MANATEE COUNTY FLEET SERVICES**  
LOCATED AT  
1100 26TH AVE EAST, BRADENTON, FLORIDA

DESIGNED: *BAT*  
DRAWN: *JDC*  
DATE: *3/20/09*  
JOB NO.: *00-40841*  
SCALE: *AS SHOWN*

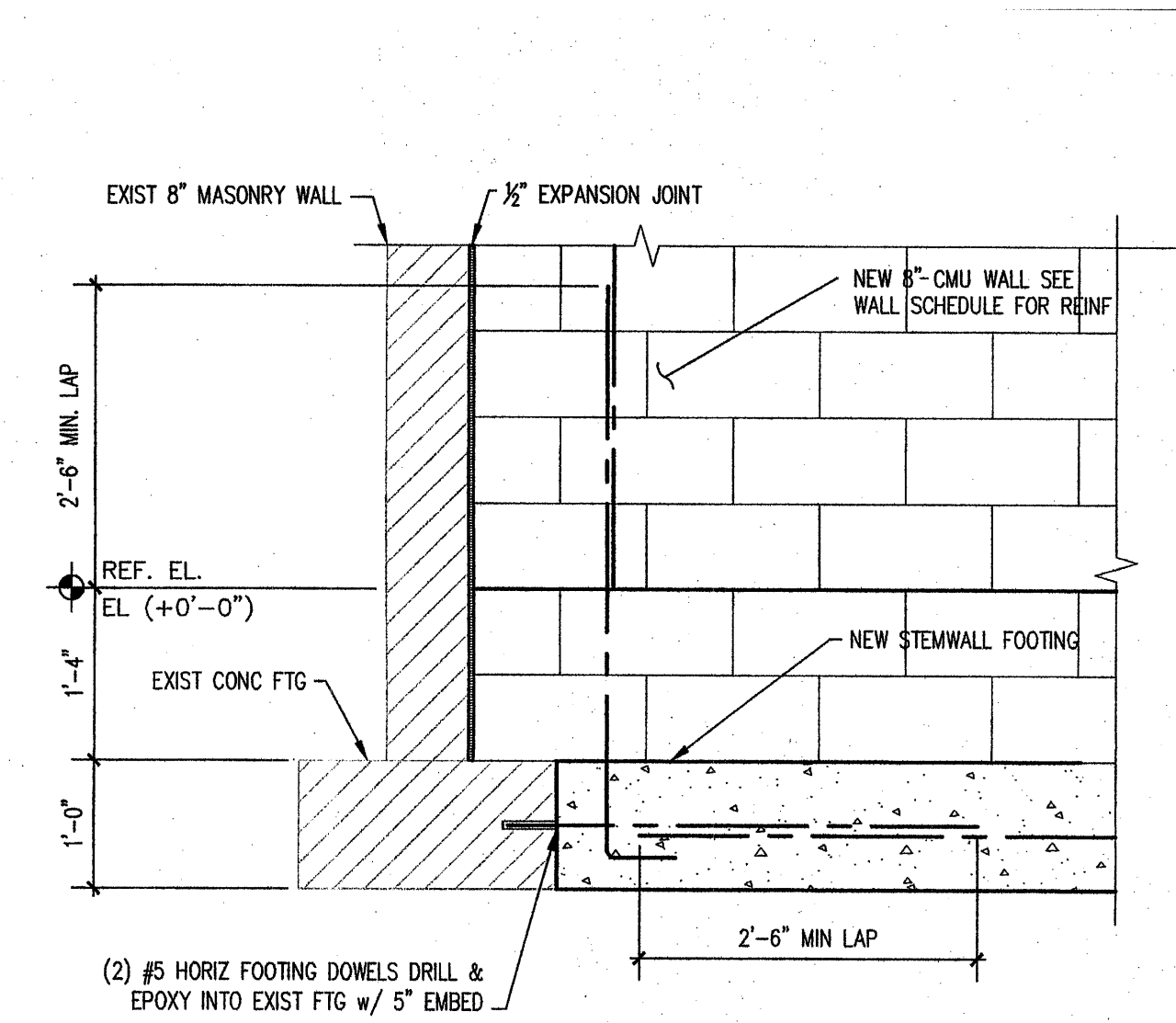
SHEET  
**S-3**



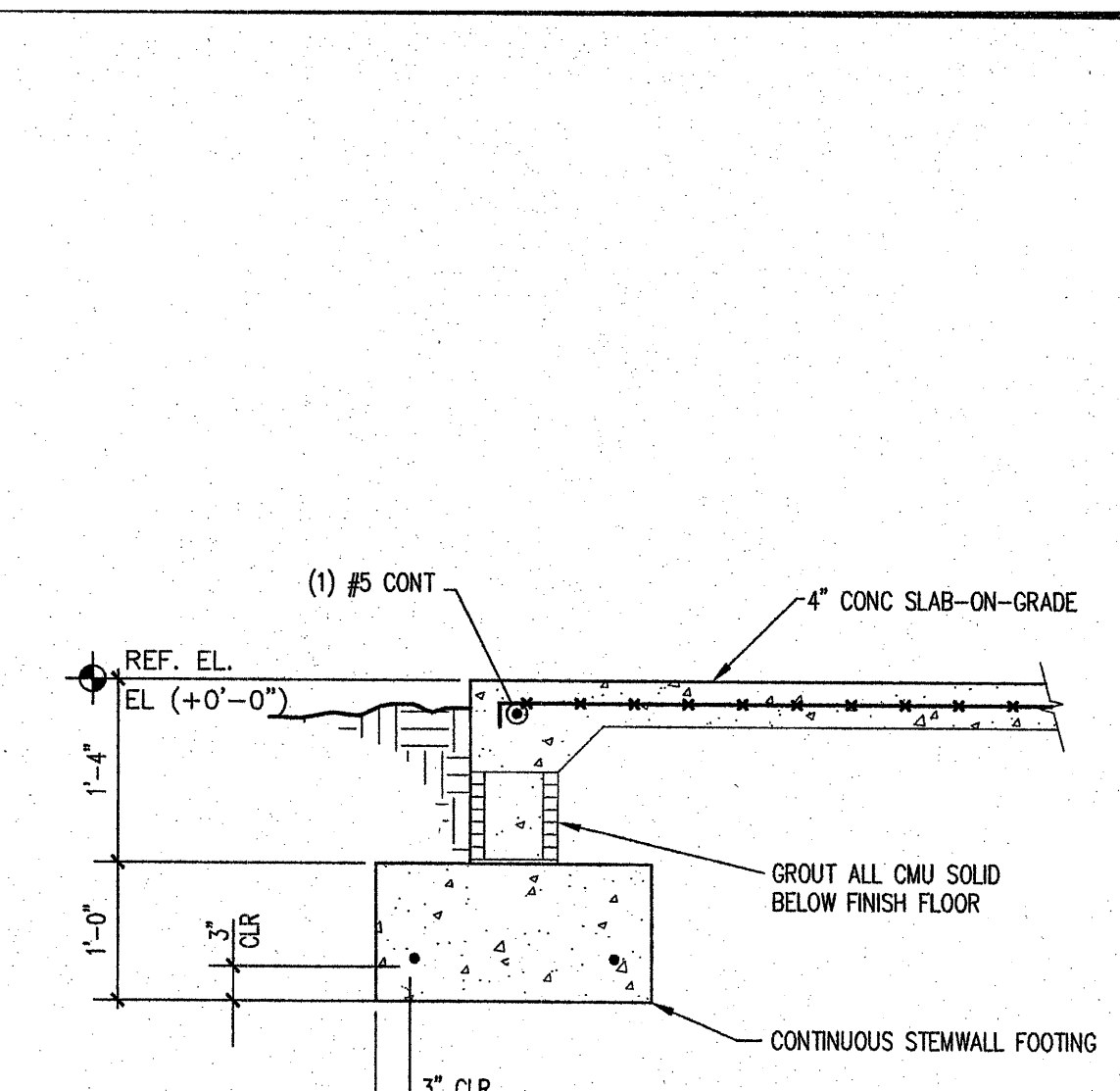
1 PERIMETER STEMWALL FOOTING  
S-4 SCALE: 3/4" = 1'-0"



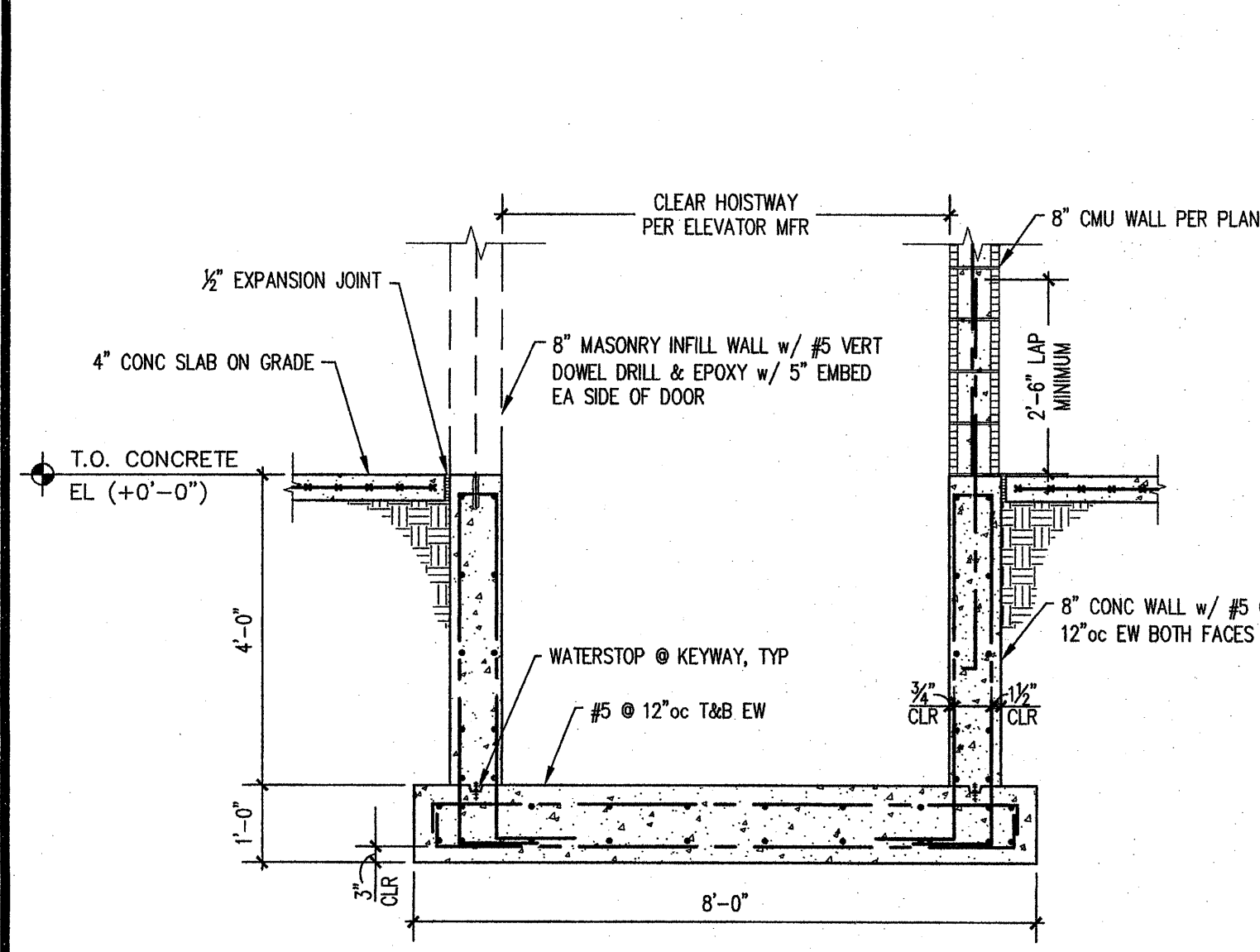
2 STEEL COLUMN BASE DETAIL  
S-4 SCALE: 3/4" = 1'-0"



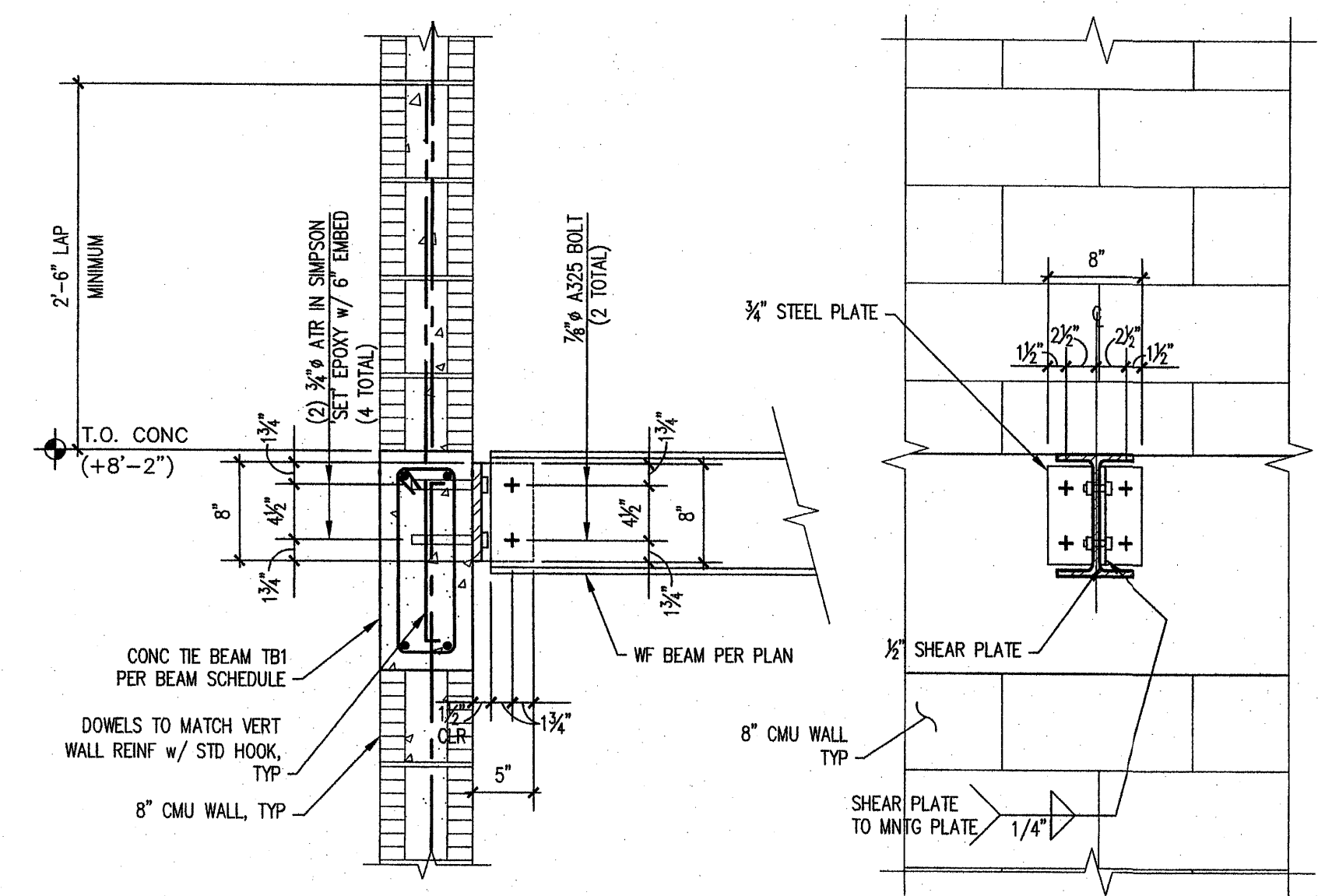
3 FOOTING CONN TO EXISTING  
S-4 SCALE: 3/4" = 1'-0"



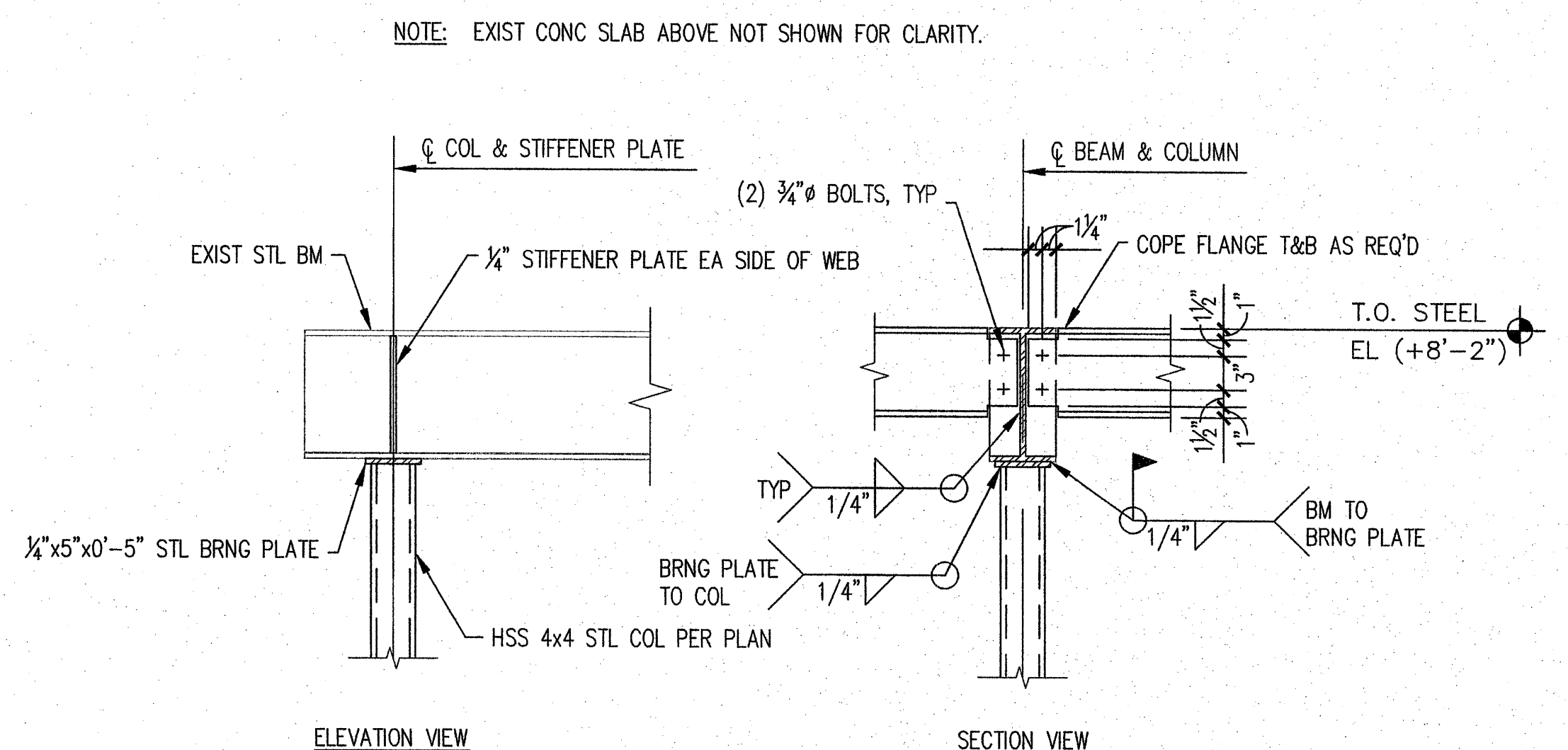
4 PERIMETER FOOTING AT DOOR  
S-4 SCALE: 3/4" = 1'-0"



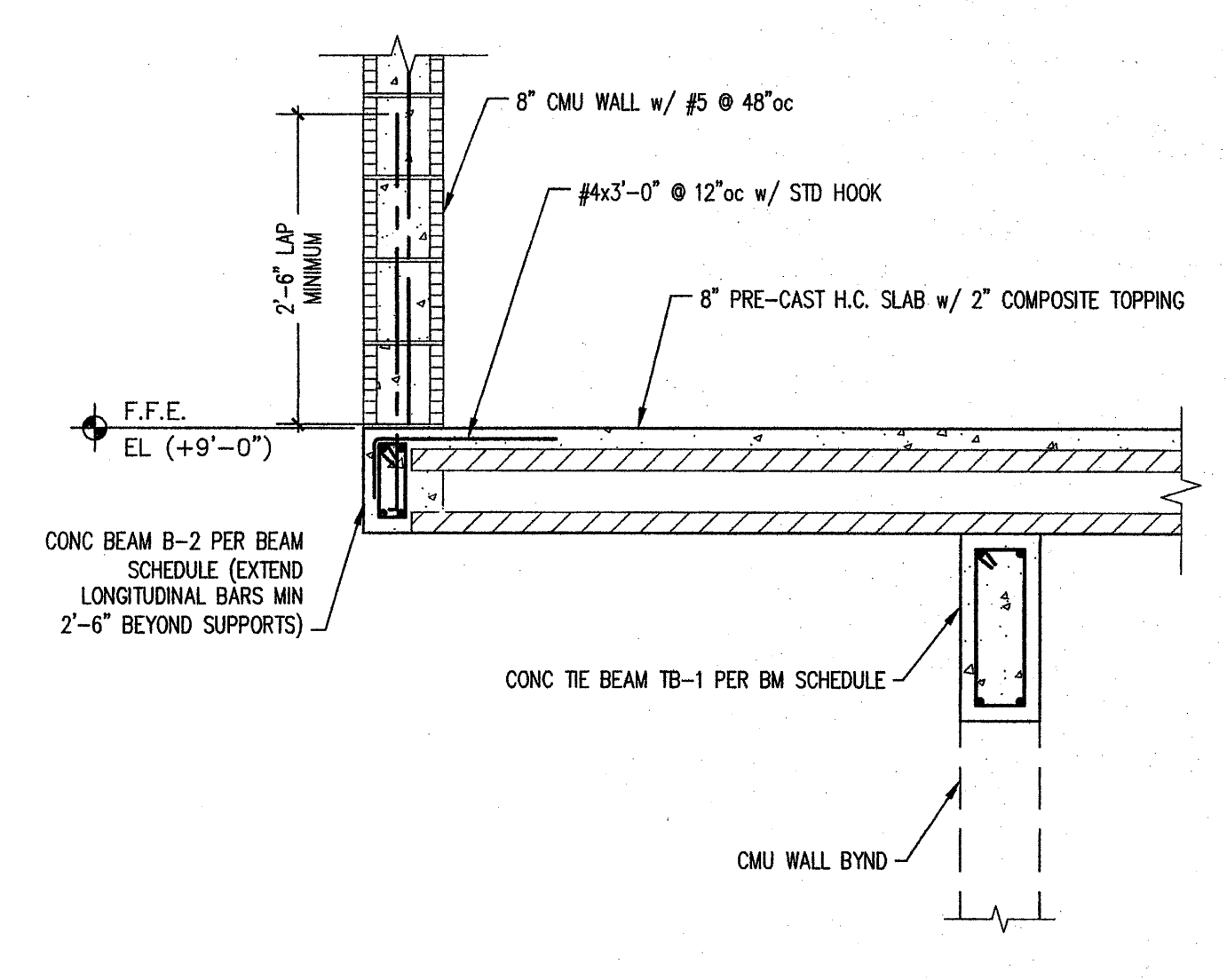
5 ELEVATOR PIT  
S-4 SCALE: 1/2" = 1'-0"



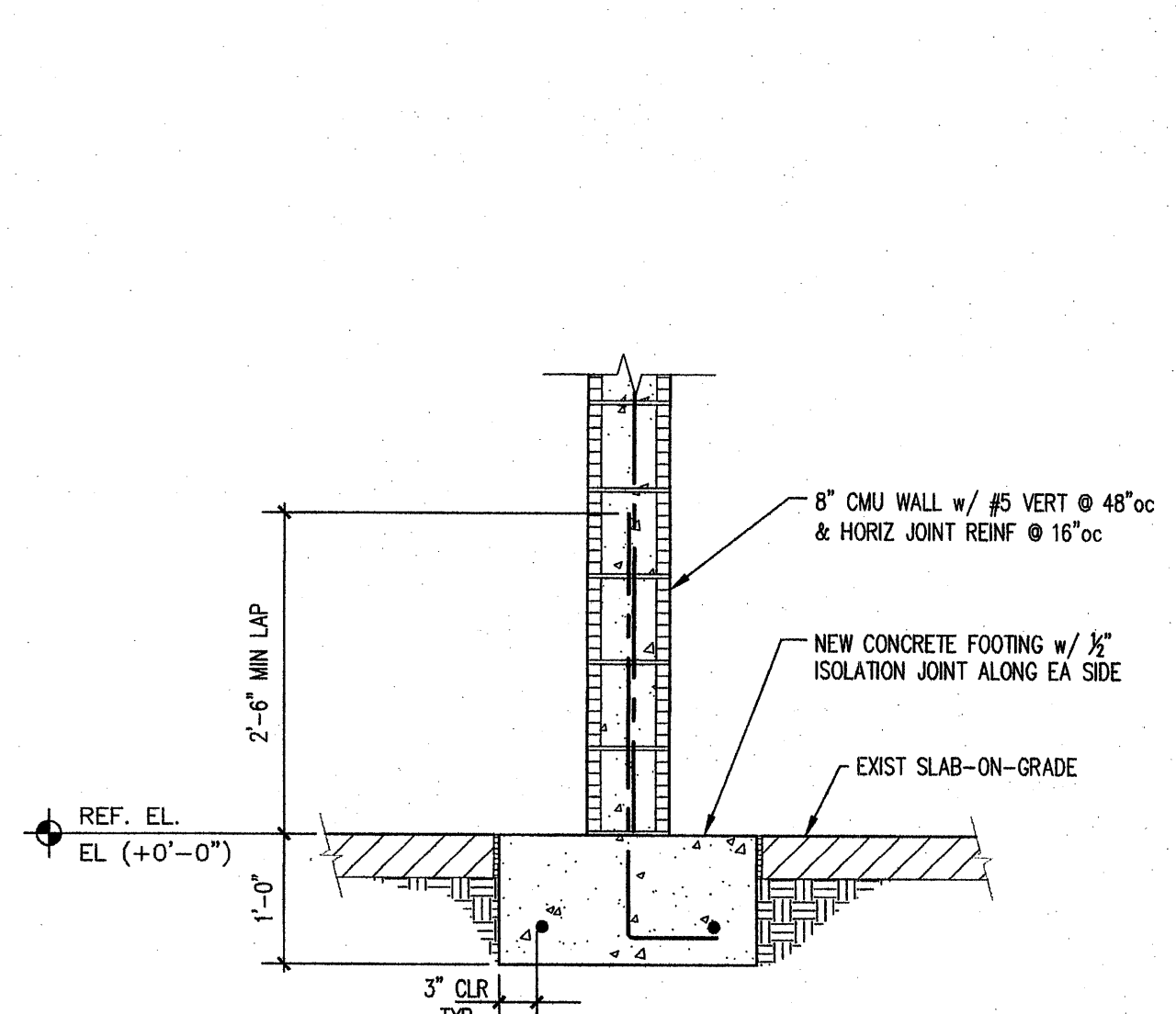
6 STEEL BEAM SUPPORT  
S-4 SCALE: 1" = 1'-0"



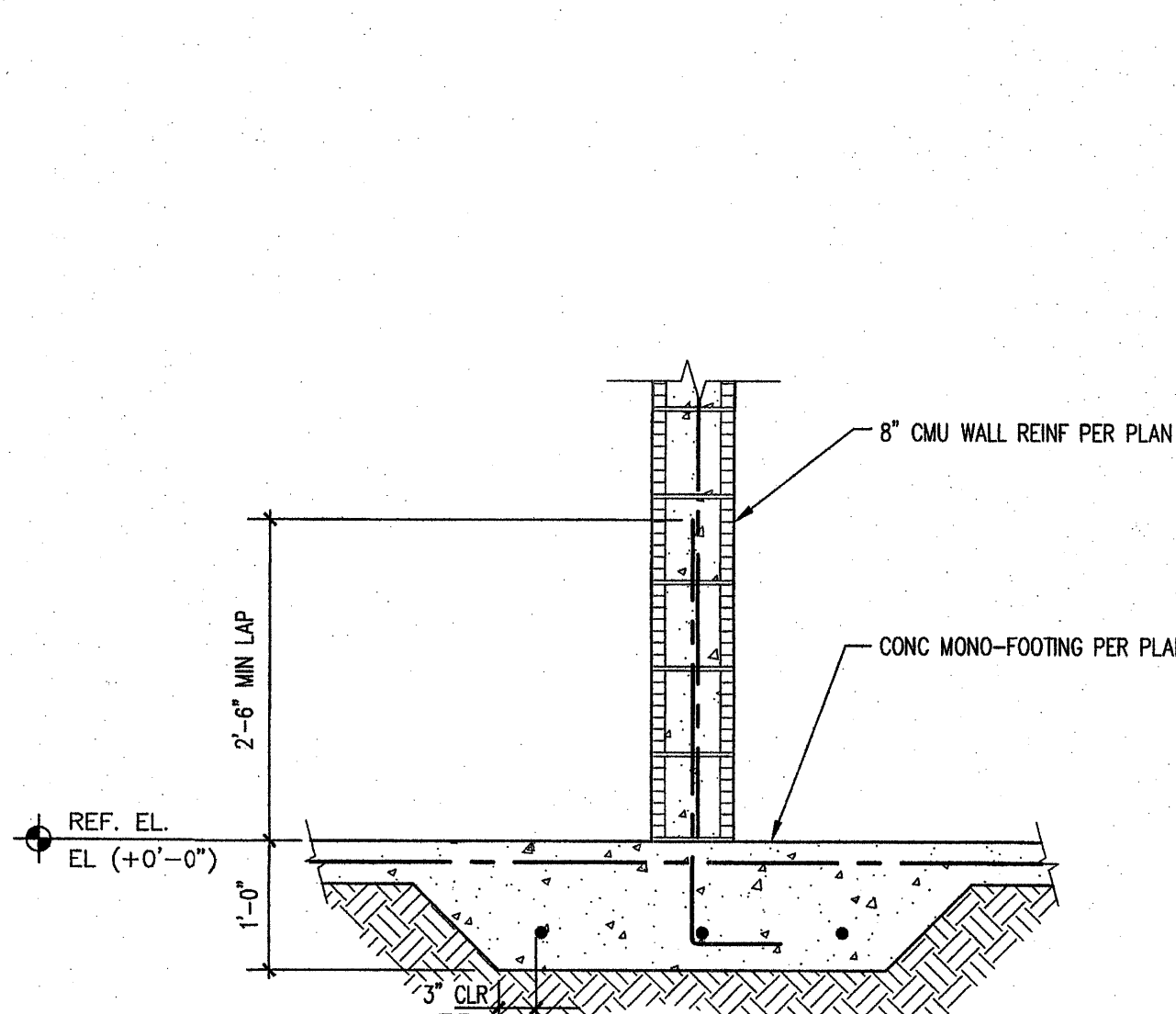
7 BEAM/COLUMN CONNECTION I  
S-4 SCALE: 3/4" = 1'-0"



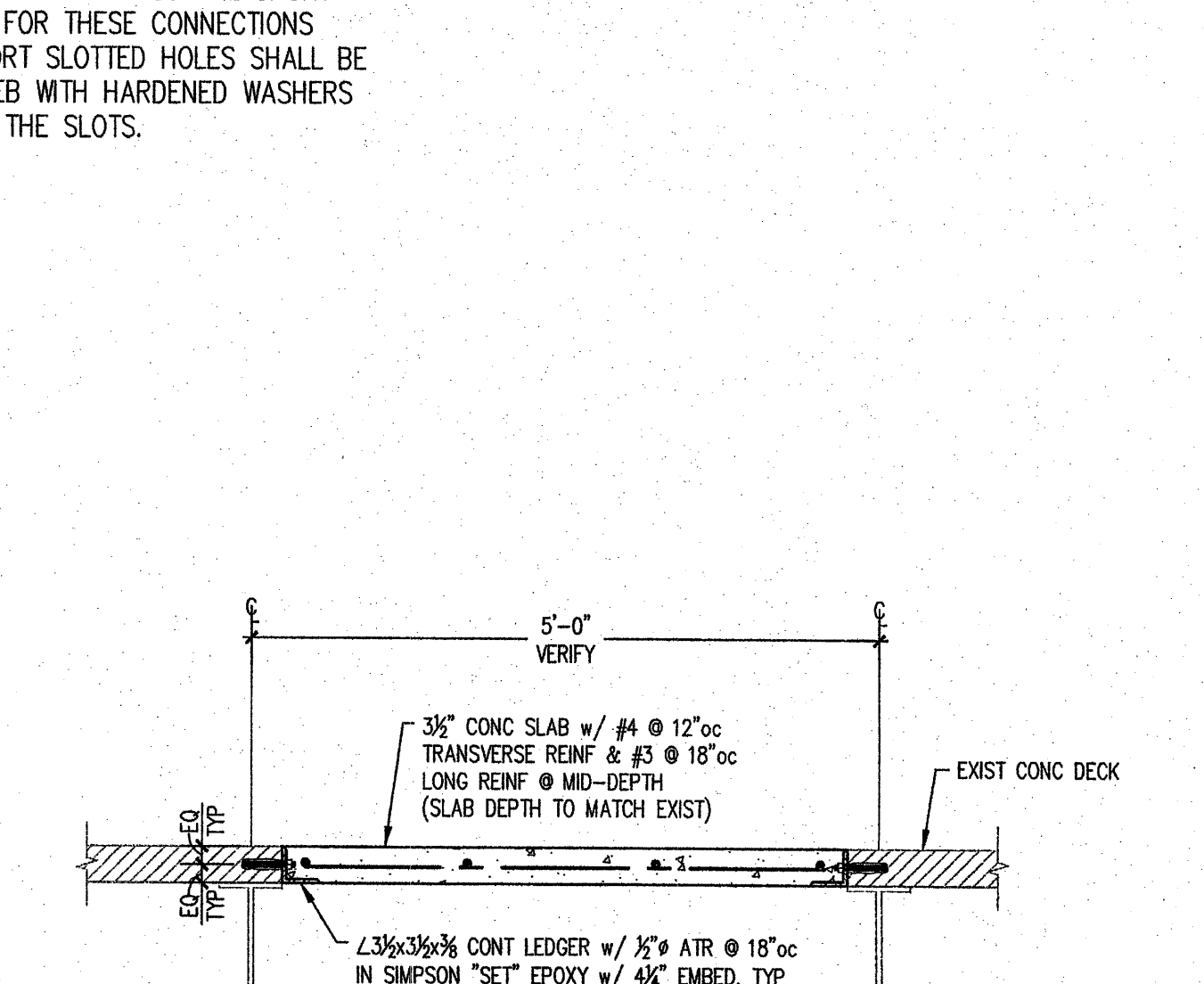
8 FRONT ENTRY  
S-4 SCALE: 3/4" = 1'-0"



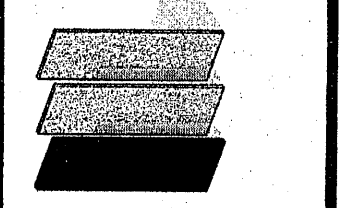
9 PERIMETER FTG AT EXIST SLAB  
S-4 SCALE: 3/4" = 1'-0"



10 INTERIOR MONO-FOOTING  
S-4 SCALE: 3/4" = 1'-0"



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

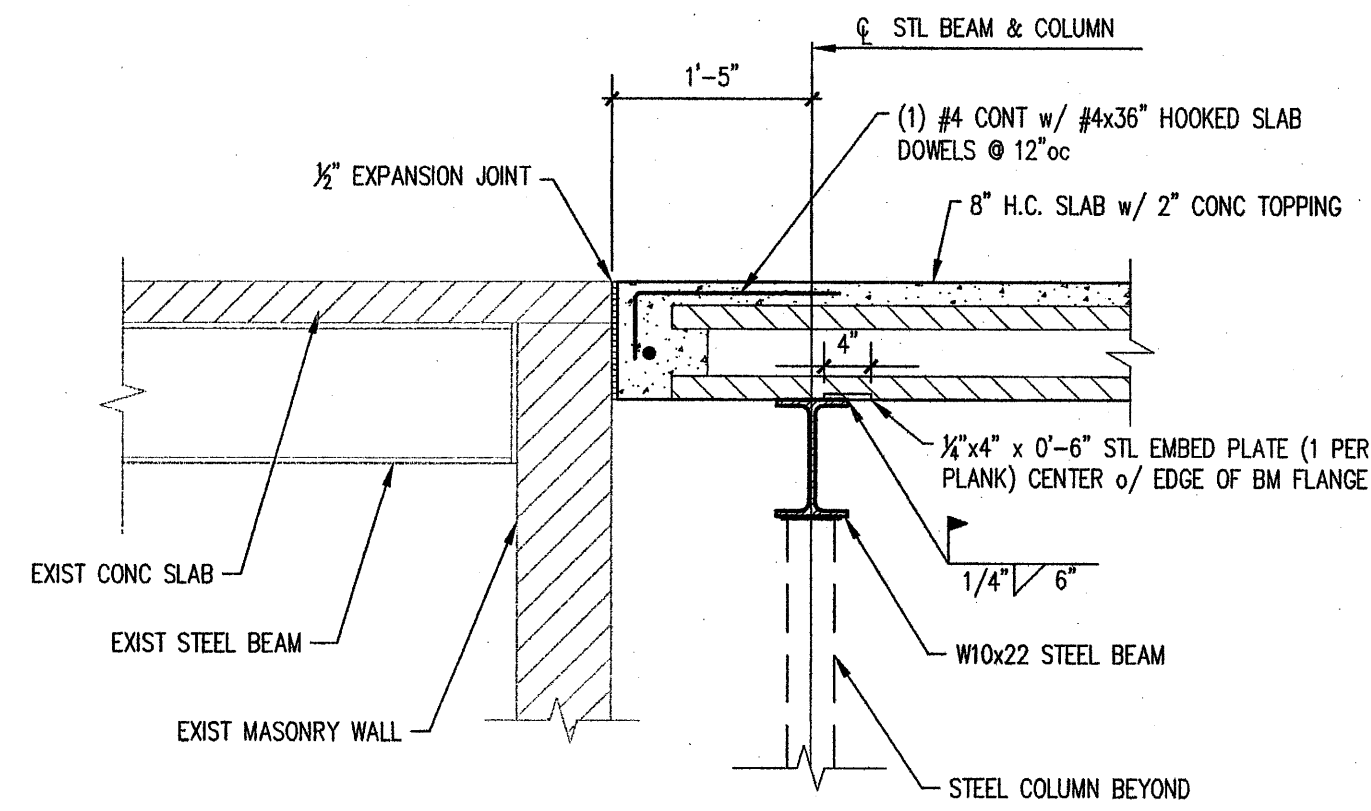


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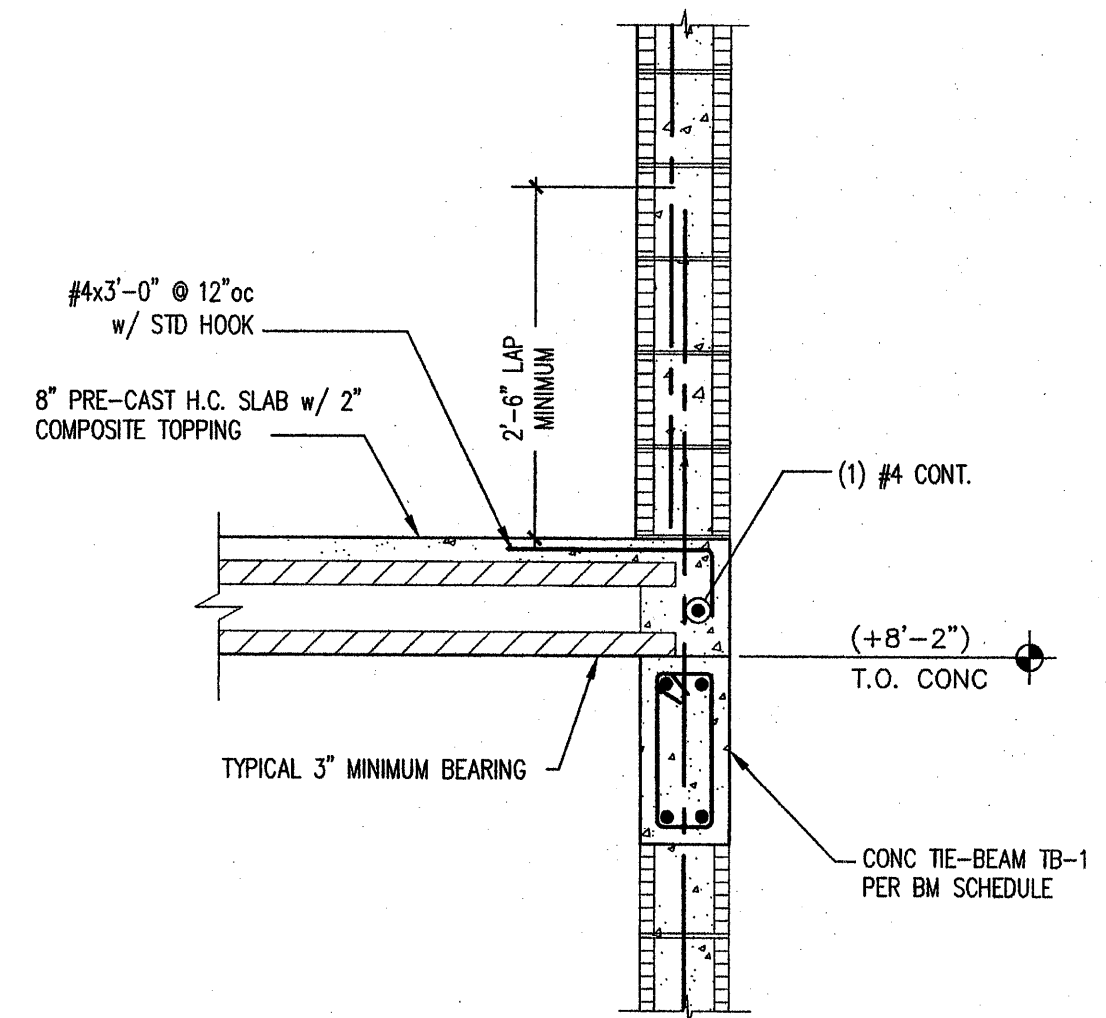
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STRUCTURAL RENOVATION  
FOR  
**MANATEE FLEET SERVICES**  
LOCATED AT  
1100 26TH AVE EAST, BRADENTON, FLORIDA

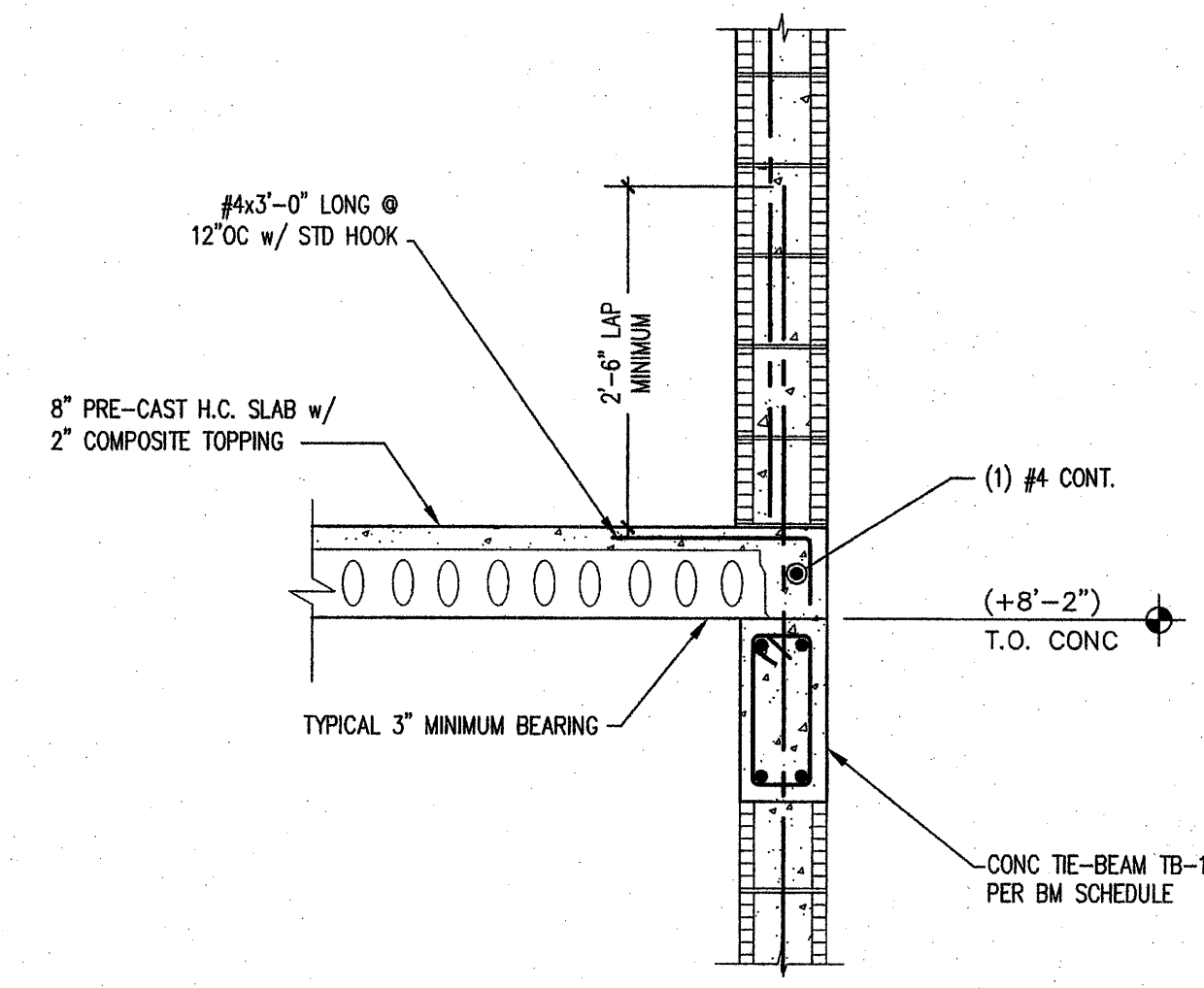
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DRAWN: JDC  
DATE: 3/20/08  
JOB NO.: 02-40241  
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SHEET



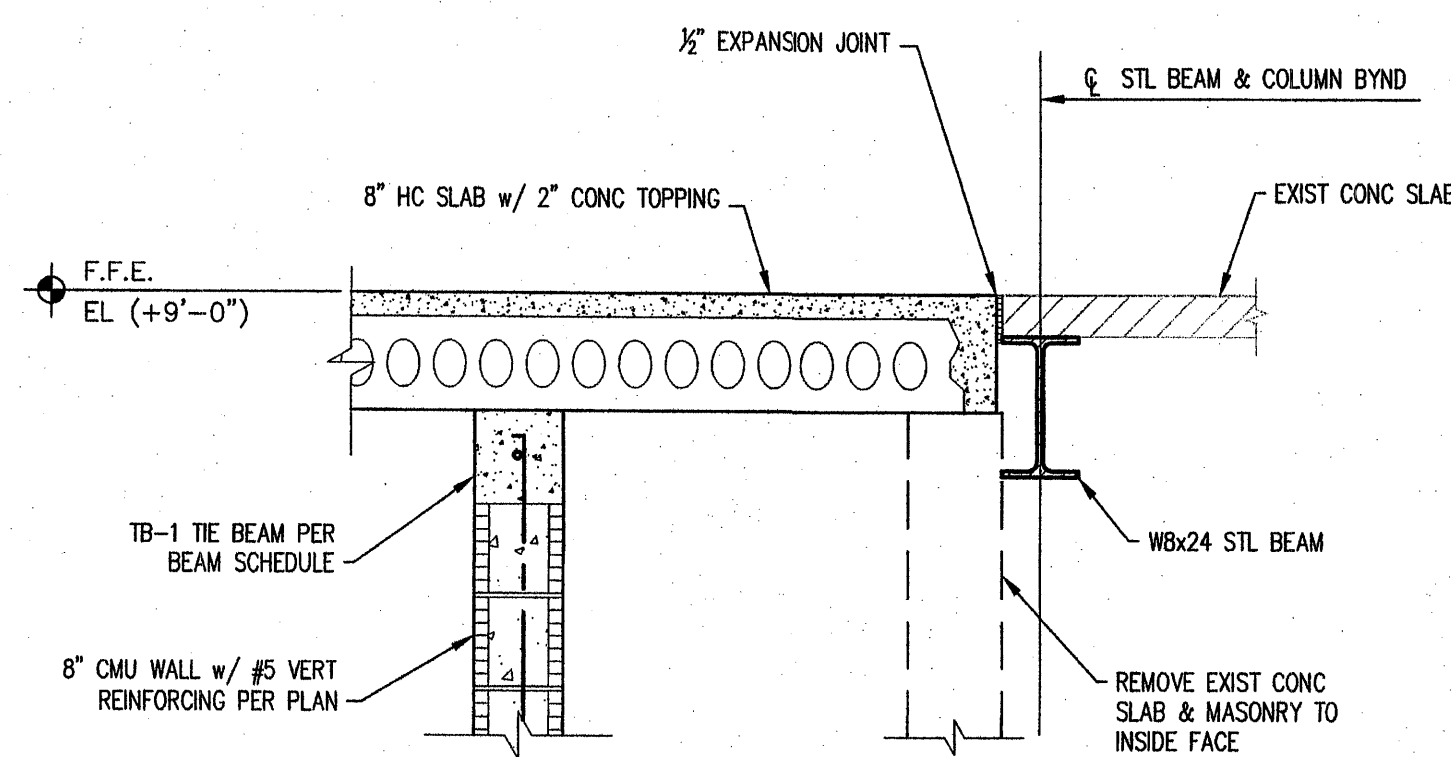
1 STL BM PARALLEL TO EXIST WALL  
S-5 SCALE: 3/4" = 1'-0"



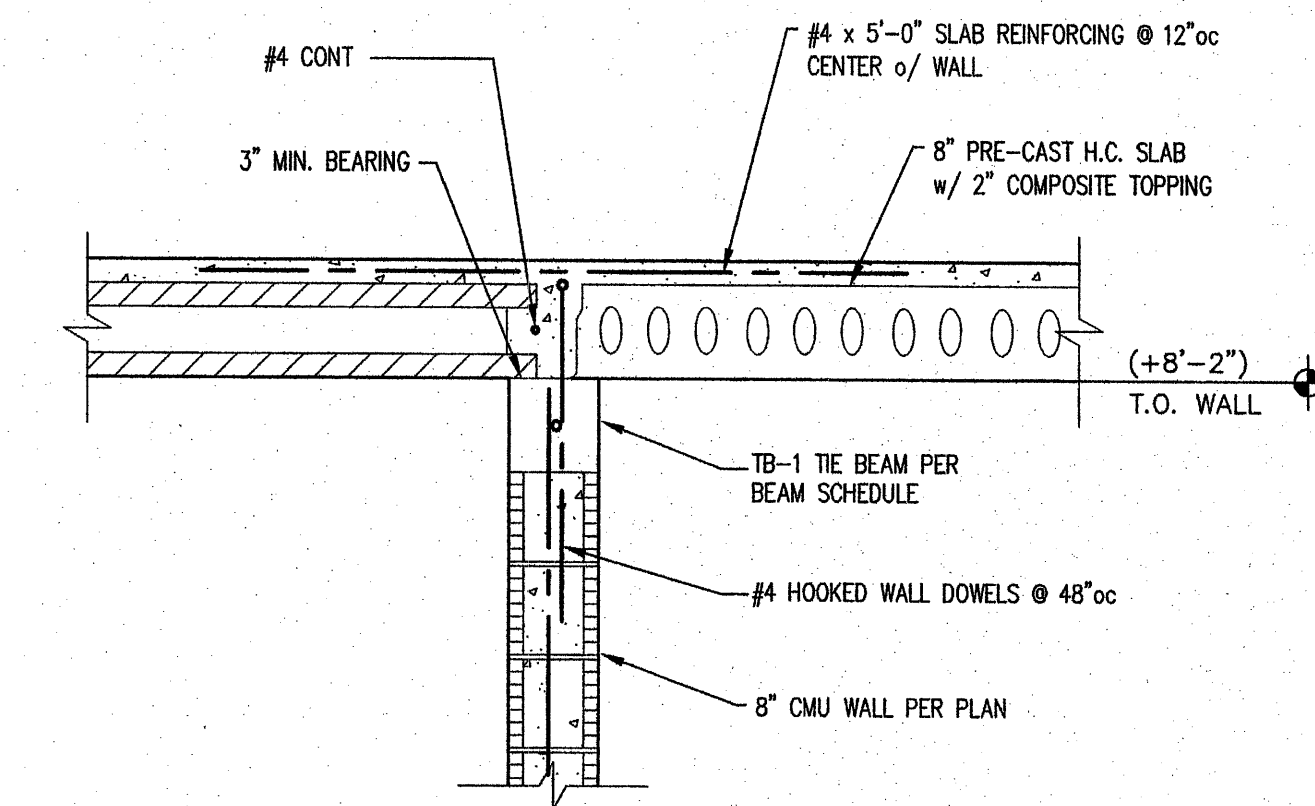
2 HC SLAB BRNG AT CMU WALL  
S-5 SCALE: 3/4" = 1'-0"



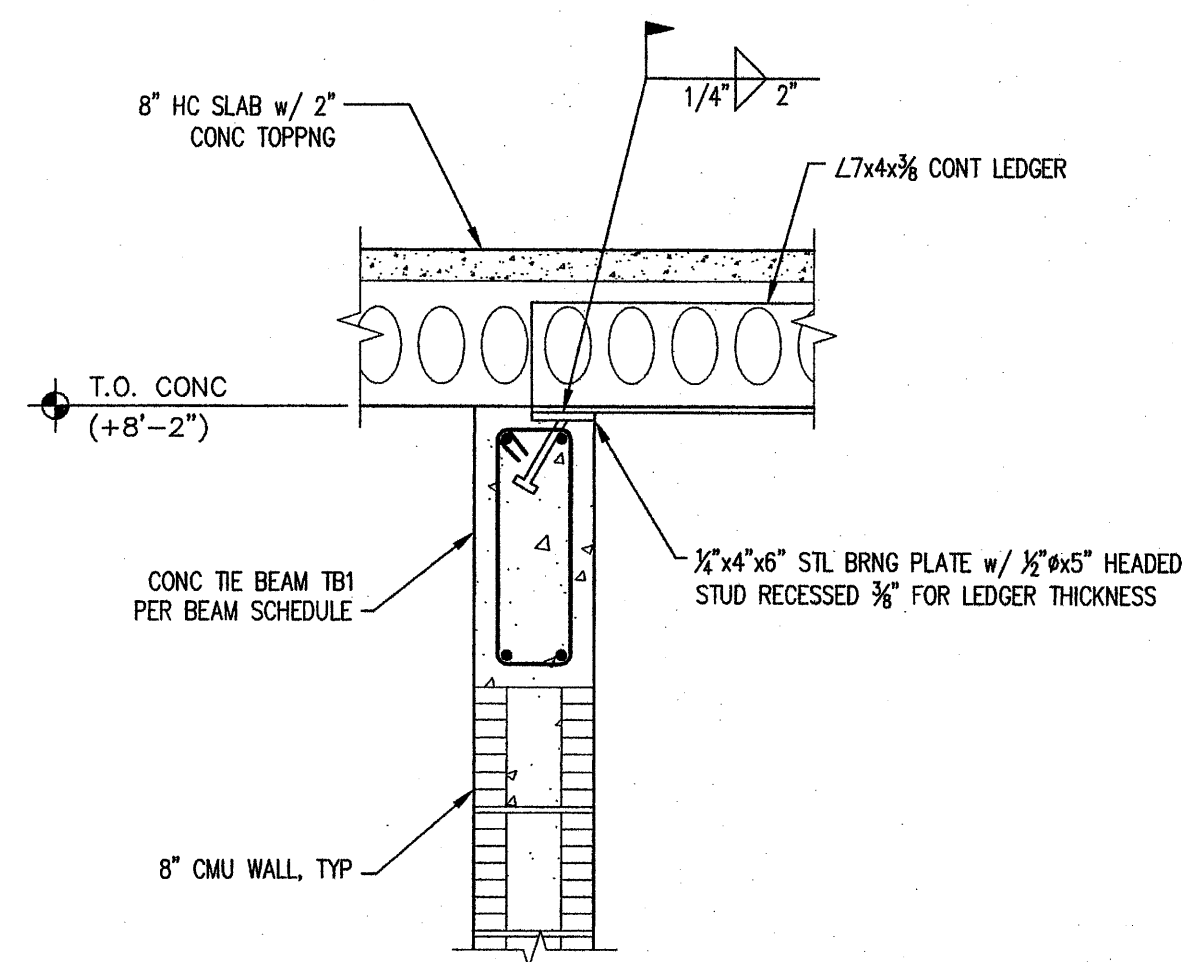
3 HC SLAB PARALLEL TO CMU WALL  
S-5 SCALE: 3/4" = 1'-0"



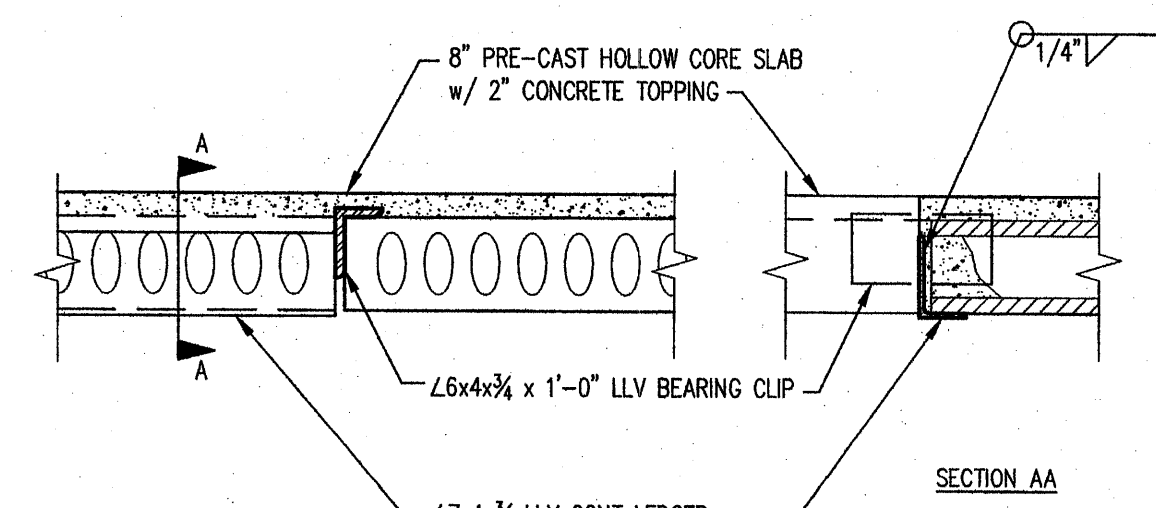
6 EXIST SLAB @ NEW STEEL BEAM  
S-5 SCALE: 3/4" = 1'-0"



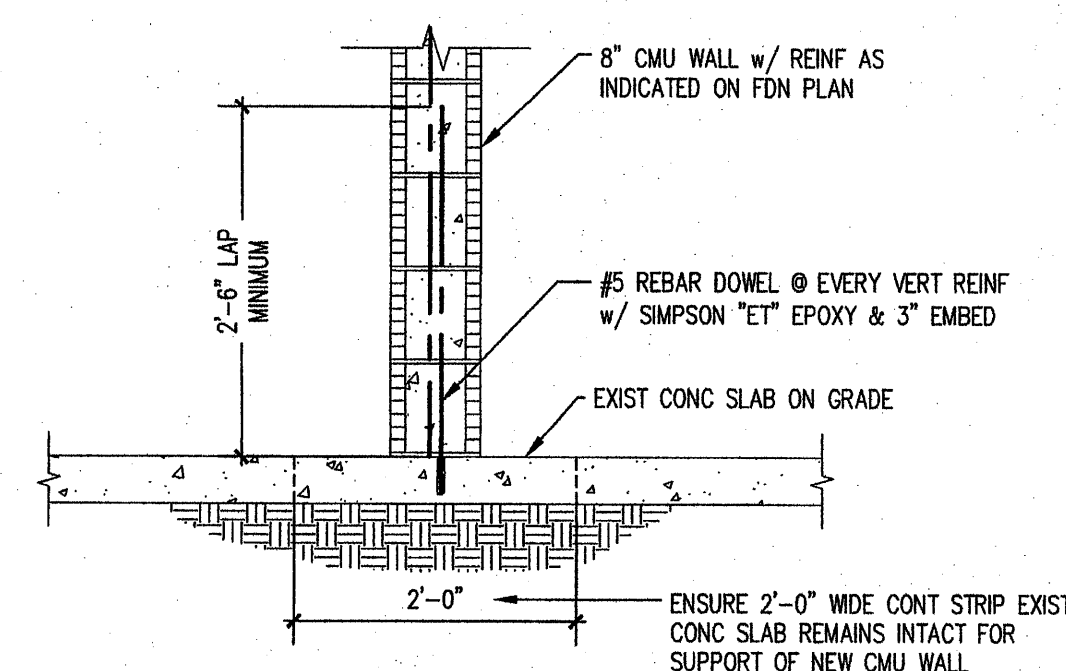
7 HC SLAB AT STAIRWELL WALL  
S-5 SCALE: 3/4" = 1'-0"



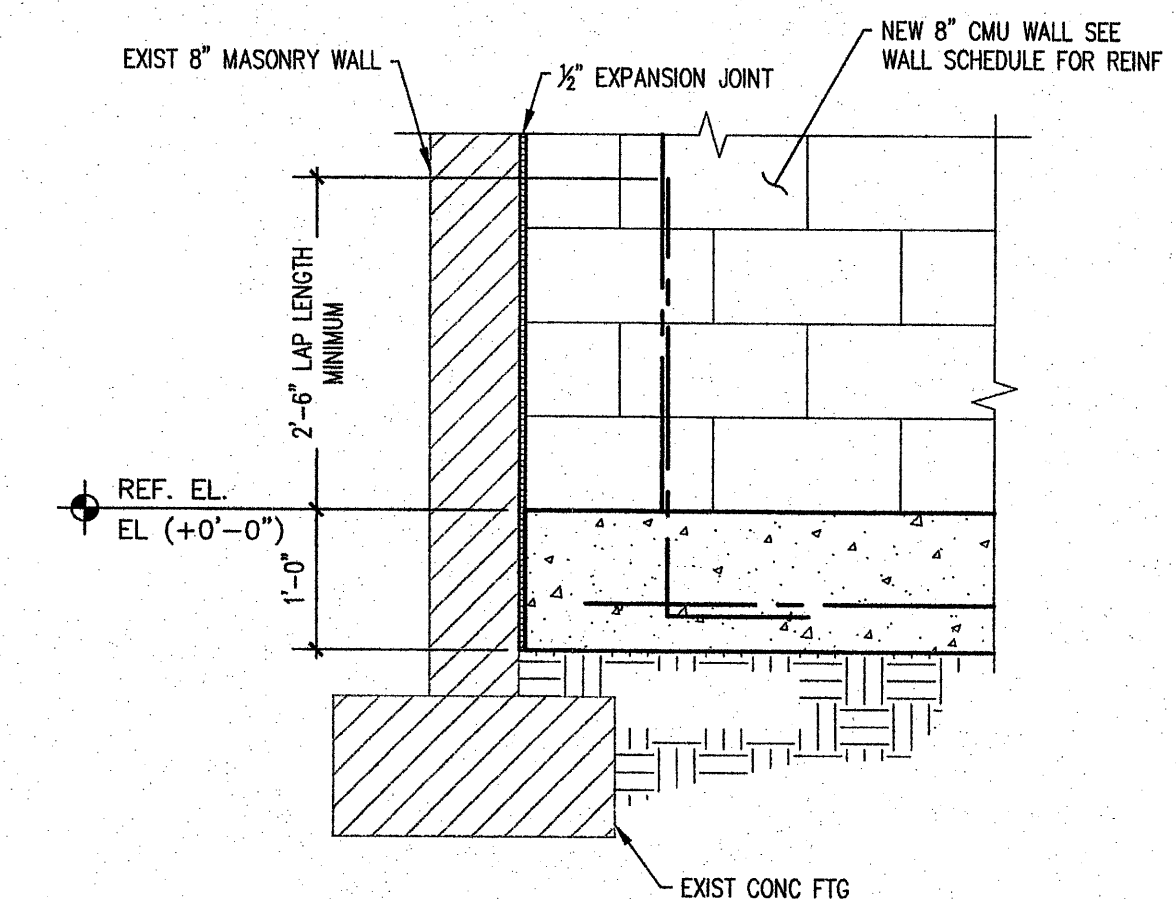
8 HC SLAB HANGER BEARING AT WALL  
S-5 SCALE: 1" = 1'-0"



9 HC SLAB HANGER  
S-5 SCALE: 3/4" = 1'-0"



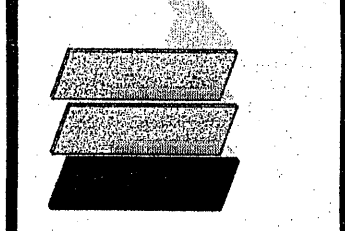
10 INTERIOR CMU WALL @ SLAB  
S-5 SCALE: 3/4" = 1'-0"



11 NEW FOOTING @ EXIST MASONRY  
S-5 SCALE: 3/4" = 1'-0"

GLENN W. WARBURTON  
PROFESSIONAL ENGINEER #46223  
SIGNATURE  
4/21/2009

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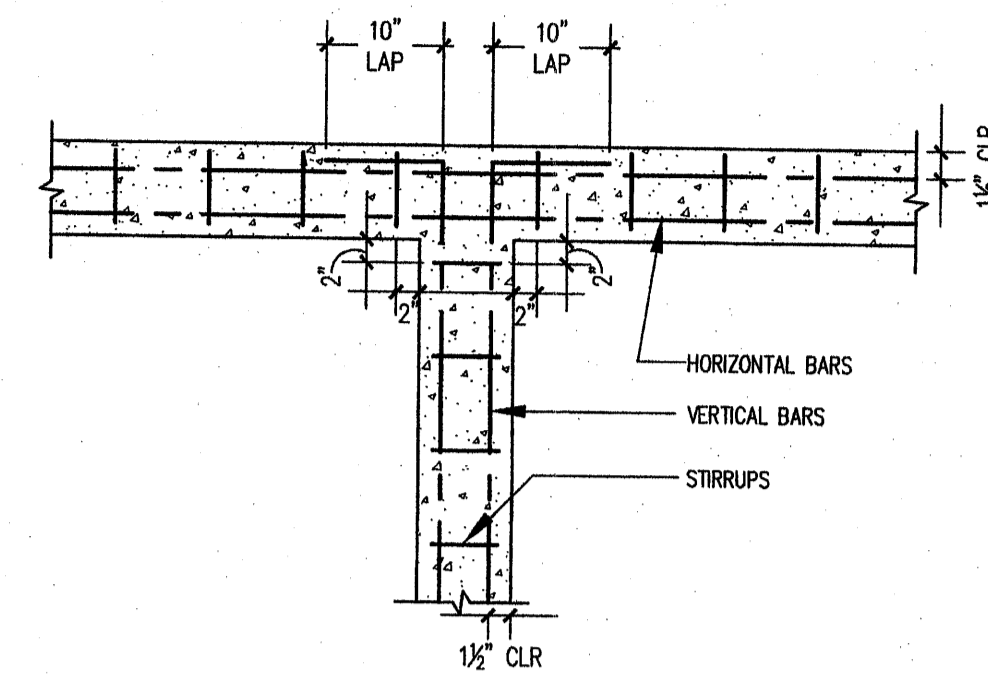
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STRUCTURAL RENOVATION  
FOR  
**MANATEE FLEET SERVICES**  
LOCATED AT  
1100 26TH AVE EAST, BRADENTON, FLORIDA

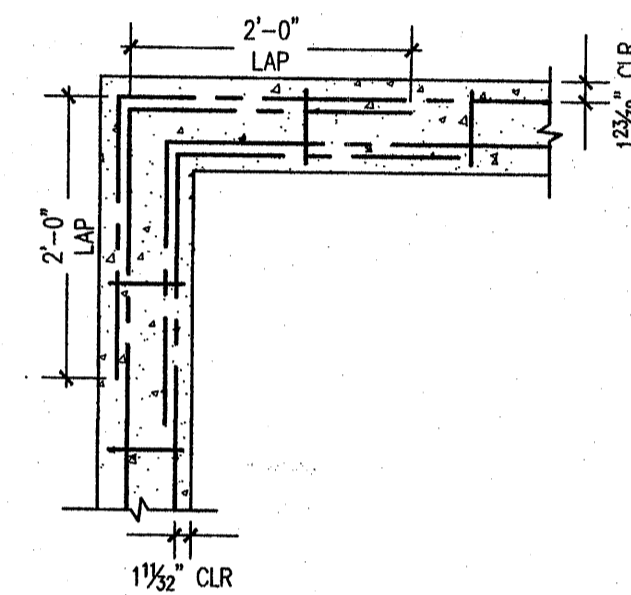
DESIGNED: BAT  
DRAWN: JDC  
DATE: 3/20/09  
JOB NO: 00-40941  
SCALE: AS SHOWN

SHEET  
**S-5**

# STRUCTURAL NOTES



TYP. BEAM COL. INTERSECTION DETAIL  
NTS



BEAM CORNER REINF. DETAIL  
NTS

## COMPONENTS & CLADDING DESIGN PRESSURES

Element Tributary Area (sq ft)	ROOF				WALLS	
	Zone 1	Zone 2/3	Overhang Zone 2	Overhang Zone 3	Zone 4	Zone 5
10	+27.0/-37.3	+27.0/-68.2	-56.6	-95.0	+39.9/-42.5	+39.9/-50.2
20	+25.5/-36.6	+25.5/-63.1	-56.6	-86.0	+38.6/-41.2	+38.6/-47.6
50	+23.4/-35.5	+23.4/-55.6	-56.6	-73.4	+36.8/-39.4	+36.8/-43.8
100	+21.9/-34.8	+21.9/-50.2	-56.6	-64.4	+35.3/-37.8	+35.3/-41.2

Zone 1: Represents the roof areas not designated as zone 2/3.  
 Zone 2: Represents the roof areas within 8 feet of the building exterior walls, not including the overhangs.  
 Zone 3: Represents the roof areas within 8 feet of 2 building exterior walls (i.e. building corners), not including the overhangs.  
 Zone 4: Represents the wall areas not designated as zone 5.  
 Zone 5: Represents the wall areas within 8 feet of the building corners.

### GENERAL NOTES:

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, CUTS OR TIE-DOWNS.

DESIGN LOADS:  
 THE BUILDING STRUCTURE COMPLIES WITH THE 2007 FLORIDA BUILDING CODE & 2009 SUPPLEMENTS UTILIZING DESIGN LOADS AS FOLLOWS:

- ROOF:  
 LIVE LOAD - 20 psf TOP CHORD & 10 psf BOTTOM CHORD (NON-CURRENT)  
 DEAD LOAD - 15 psf (3 psf AVAILABLE TO RESIST UPLIFT)
- FLOOR:  
 LIVE LOAD - 125 psf (LIGHT STORAGE)  
 DEAD LOAD - 105 psf (85 psf FOR HC SLABS & 20 psf FOR PARTITIONS)
- WIND: (PER ASCE 7-02)  
 BASIC WIND SPEED = 130 MPH (3 SECOND GUST)  
 BUILDING CATEGORY II / IMPORTANCE FACTOR = 1.0  
 EXPOSURE B  
 ENCLOSED Cp = +0.18 / -0.18

### SHOP DRAWING REVIEW:

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTORS REVIEW WILL BE RETURNED UNCHECKED.

### FOUNDATIONS:

NEW FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

### FORMWORK AND SHORING:

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301. DRAWINGS FOR SHORING AND RESHORING SHALL BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

### CONCRETE:

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW:

- 3000 psi FOR FOUNDATIONS AND SLABS ON GRADE.
- 4000 psi FOR ALL OTHER STRUCTURAL CONCRETE.

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD TESTS AND STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318-89 FOR REVIEW PRIOR TO USE. EACH MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION AND INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

### CONCRETE TESTING:

AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE 6 INCHES.

ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

- 1 AT 7 DAYS
- 2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

### MASONRY WALLS:

MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 psi ON THE NET AREA (fm = 1500 psi). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. GROUT SHALL BE 2000 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476.

UNLESS NOTED OTHERWISE, WALLS SHALL BE EIGHT INCH REINFORCED MASONRY WALL CONSTRUCTION WITH #5 VERTICAL REINFORCING BARS IN GROUT FILLED CELLS AT 48 INCHES O.C., CORNERS, ENDS OF WALLS, AND EACH SIDE OF ALL OPENINGS.

PROVIDE ACI STANDARD HOOKS FOR FOOTING DOWELS AND TERMINATION OF ALL VERTICAL REINFORCING. LAP SPLICES SHALL BE 48 BAR DIAMETERS. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES.

### HOLLOW-CORE SLABS:

FLOORS SHALL BE PRESTRESSED CONCRETE HOLLOW-CORE SLABS DESIGNED IN ACCORDANCE WITH ACI 318 FOR THE FOLLOWING SUPERIMPOSED LOADS:

- DEAD LOAD - 25 psf
- LIVE LOAD - 125 psf

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED FOR ALL WORK AND SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

### TIE BEAMS:

BEAMS WITH THE PREFIX "TB" SHALL BE OF POURED AFTER THE BLOCK WALLS BELOW ARE IN PLACE. REINFORCING SHALL BE CONTINUOUS THROUGH THE BEAMS WITH MINIMUM LAP SPLICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH ACI 530.1, SECTION 4.3.3.3 (SOLID METAL OR FELT CAVITY CAPS ARE PROHIBITED).

### LINTELS:

MASONRY OPENINGS LESS THAN 6 FEET SHALL BE SPANNED WITH 8"x8" PRECAST CONCRETE LINTELS WITH (1) #5 REINFORCING BAR. ALL PRECAST LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END.

### REINFORCING STEEL:

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

### WELDED WIRE FABRIC:

TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

### CHEMICAL ANCHORS:

SHALL BE AN EQUAL TWO PART STRUCTURAL EPOXY, SUCH AS RAMSEY "EPCON", RAWL "POWER-FAST", SIMPSON STRONG-TIE "ET-22", OR ENGINEER APPROVED SUBSTITUTION, INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

### PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

### STRUCTURAL STEEL:

SHALL CONFORM TO ASTM A992 AND THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZING IS INDICATED ON THE DRAWINGS.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE B, Fy = 46 ksi. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE B, TYPE E OR S, Fy = 35 ksi.

ALL BOLTED CONNECTIONS SHALL CONSIST OF MINIMUM 3/4 INCH DIAMETER ASTM A-325 HIGH STRENGTH BOLTS. BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS SHOWN ON THE PLANS. IF NOT SHOWN, THE FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS TO SUPPORT AN END REACTION OF W/2 KIPS FROM THE TABLES IN PART 2 "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" OF THE MANUAL OF STEEL CONSTRUCTION (9TH EDITION), BUT CONNECTIONS SHALL NOT HAVE LESS THAN 2 ROWS OF BOLTS. ANCHOR BOLTS SHALL CONFORM TO ASTM A-307 OR A-36 (THREADED ROD).

### MACHINE AND LAG BOLTS:

SHALL BE A-307 HOT DIPPED GALVANIZED WITH GALVANIZED WASHERS.

### LIGHT GAUGE METAL FRAMING:

STEEL STUDS, LINTELS, AND RUNNER TRACK MEMBERS SHALL BE OF TYPE SHOWN ON THE DRAWINGS AND SPECIFICATIONS CONFORMING TO ASTM A-446 GRADE C (MINIMUM YIELD POINT 40,000 psi) WITH HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM A525 (CLASS C90). GALVANIZED STEEL RUNNER TRACK SHALL BE FORMED WITH MATERIAL MEETING REQUIREMENTS OF ASTM A-446 GRADE A (MINIMUM YIELD POINT 33,000 psi) WITH HOT DIPPED GALVANIZED COATING CONFORMING ASTM A-525 (CLASS G-90).

ASSEMBLY: ALL FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED TO FIT SQUARELY AGAINST ADJUTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY JOINED. JOINING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED. ATTACHMENT OF COLLATERAL MATERIALS TO STEEL MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS OR HARDENED SCREW SHANK NAILS. METAL LATH MAY ALSO BE CONNECTED TO STEEL BY STAPLES OR OTHER FASTENERS, IF APPROVED BY LOCAL BUILDING CODE.

INSTALLATION: STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK.

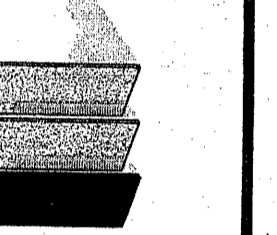
### PRE-ENGINEERED TRUSSES:

ENGINEERED TRUSS SYSTEMS SHALL BE DESIGNED BY SUPPLIER'S SPECIALTY ENGINEER TO THE CONFIGURATION AND LOAD-CARRYING CAPACITY SHOWN ON DRAWINGS AND SPECIFICATIONS. ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER WHICH WILL INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE BY THE ENGINEER OF RECORD.

SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY ALL CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN ALL OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE ENGINEERED TRUSS SYSTEM. AN ERECTION DRAWING SHALL BE INCLUDED, IDENTIFYING ALL TRUSS SYSTEM COMPONENTS, AS WELL AS ALL PERMANENT BRACING REQUIRED FOR TRUSS DESIGN. ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS THE SPECIALTY ENGINEER.

GLENN W. WARBURTON  
 PROFESSIONAL ENGINEER  
 #6023  
 SIGNATURE  
 4/21/2009

ZNS ENGINEERING  
 ENGINEERS | PLANNERS | SURVEYORS  
 LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS  
 1100 26TH AVE EAST, BRADENTON, FL 34203  
 POST OFFICE BOX 648, BRADENTON, FL 34203  
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REVISIONS	1	2	3	4	5	6	7

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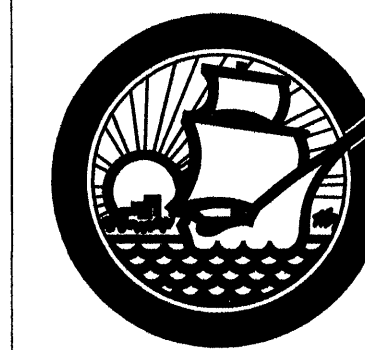
STRUCTURAL RENOVATION  
 FOR  
 MANATEE FLEET SERVICES  
 LOCATED AT  
 1100 26TH AVE EAST, BRADENTON, FLORIDA

DESIGNED: BAT  
 DRAWN: JDC  
 DATE: 3/20/09  
 JOB NO.: 00-40841  
 SCALE: AS SHOWN

SHEET  
 5-16



MANATEE COUNTY GOVERNMENT



Facilities Management

1112 Manatee Avenue West Suite 800, P.O. Box 1000 Bradenton, Florida 34206

(941) 748-4501 FAX (941) 742-5880

Table with 2 columns: REV., DATE. Multiple empty rows for revision and date tracking.

PHASE - 2
MANATEE FLEET SERVICES
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:
Yehuda Inbar AIA
Inbar architect AIA

Checked by:
Al Meronek

Date: 11-19-08

Scale

Set

Drawing Number

E-1

ELECTRICAL SYMBOL LEGEND table with columns: SYMBOL, DESCRIPTION, MOUNTING. Lists various electrical symbols and their corresponding descriptions and mounting requirements.

ABBREVIATIONS table with columns: ABBREVIATION, DESCRIPTION. Lists common electrical abbreviations such as AFF, AHU, BFG, C, EF, EG, ENCL, EWC, EWH, FOU, FLA, G, GFI.

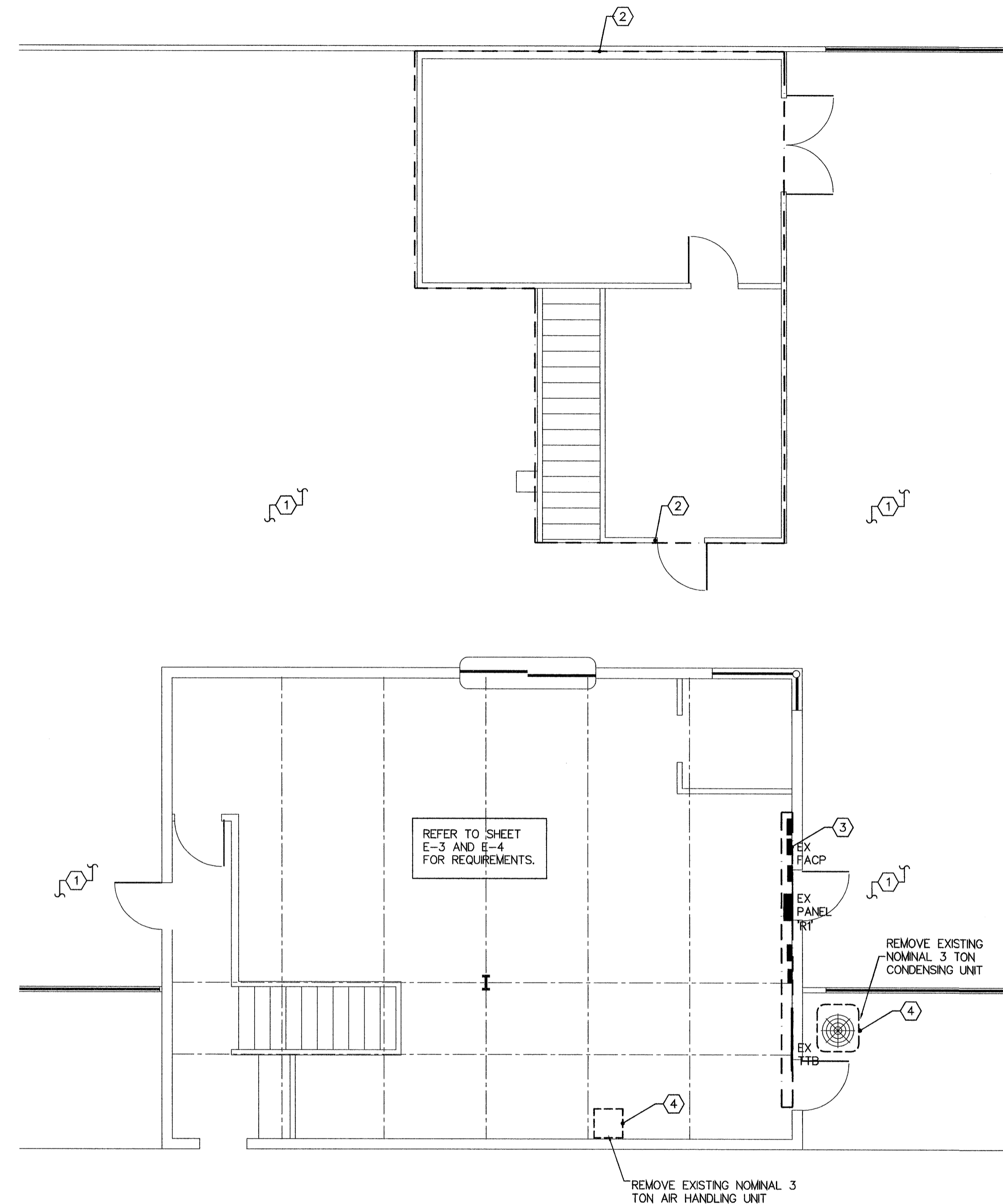
ELECTRICAL SPECIFICATIONS
A. THE WORK, APPARATUS AND MATERIALS WHICH SHALL BE FURNISHED UNDER THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL ITEMS SPECIFIED HEREINAFTER AND SHOWN ON THE DRAWINGS...

B. OUTLET BOXES FOR EXPOSED WALL MOUNTING, AND OUTDOOR INSTALLATIONS SHALL BE CAST METAL TYPE 'TS' OR 'TD' BOXES WITH SUITABLE GALVANIZED SHEET COVERS, OR CAST METAL WEATHERPROOF...

E. MOTOR STARTERS:
1. COMBINATION MAGNETIC, FULL VOLTAGE STARTERS FOR 3 MOTORS SHALL BE THREE POLE HORSEPOWER RATED, MAGNETICALLY OPERATED SWITCHES...

GRINER ENGINEERING, INC.
183 First Avenue North
St. Petersburg, Florida 33713
Phone: (727) 852-2335
Fax: (727) 851-3361
Certificate of Authorization #3173

Table with 2 columns: Description, Date. Lists dates for various project milestones: 11/19/2008, IT, IT, IT, IT, 08/07.



N  
FIRST FLOOR DEMO PLAN  
3/16" = 1'-0"

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
2. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS AND TO REPORT TO GENERAL CONTRACTOR, OWNER AND ENGINEER ANY DISCREPANCY FROM THAT SHOWN ON DRAWINGS.

E - DENOTES EXISTING  
R - DENOTES RELOCATED

**ELECTRICAL GENERAL NOTES:**

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE - NATIONAL ELECTRIC CODE, NFPA AND ALL LOCAL ORDINANCES.
2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCED THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
3. ALL EXISTING CIRCUITS TO REMAIN SHALL BE RECONNECTED WHETHER INDICATED OR NOT ON PROJECT DOCUMENTS.
4. NEW AND EXISTING CIRCUIT DESIGNATIONS MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. THEY ARE INTENDED FOR REFERENCE ONLY.
5. WHERE EXISTING PARTITIONS OR WALLS ARE SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE DEVICES TO NEAREST SOURCE JUNCTION BOX AND SHALL MAINTAIN SERVICE TO REMAINING DOWNSTREAM ELECTRICAL OUTLETS. COORDINATE THE DEMOLITION OF THE EXISTING WALLS WITH ARCHITECTURAL DRAWINGS.
6. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS NECESSARY TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
7. REMOVE ELECTRICAL EQUIPMENT AND INSTALLATIONS, INDICATED TO BE DEMOLISHED, IN THEIR ENTIRETY. WHERE THE EXISTING EQUIPMENT INDICATED TO BE DEMOLISHED CONTAINS BRANCH CIRCUITRY SERVING OUTLETS THAT ARE EXISTING TO REMAIN, RELOCATE THE BRANCH CIRCUIT TO AN ALTERNATE PANEL AND INDICATE THE CHANGE ON THE AS-BUILT DRAWINGS.
8. ABANDONED WORK: CUT OR REMOVE RACEWAY SLEEVES AND WIRING, INDICATED TO BE ABANDONED IN PLACE, BELOW THE SURFACE OF ADJACENT CONSTRUCTION. CAP RACEWAYS AND PATCH SURFACE TO MATCH EXISTING FINISH.
9. REMOVE FIRE ALARM NOTIFICATION DEVICES AND PULL STATIONS IN EXISTING WALLS TO BE DEMOLISHED AND TEMPORARILY RELOCATE TO NEAREST ADJACENT WALL. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION WITH THE OWNER, GENERAL CONTRACTOR AND LOCAL AUTHORITY HAVING JURISDICTION TO ENSURE FALSE ALARMS ARE AVOIDED DURING DEMOLITION. THE FIRE ALARM IS TO REMAIN ACTIVE DURING DEMOLITION.
10. THE CONTRACTOR SHALL INCLUDE WITHIN THE BID ALL REQUIRED OFF HOUR, OVERTIME, AND NON-BUSINESS HOUR WORK AS REQUIRED TO PERFORM THE DEMOLITION WITHOUT DISRUPTING THE BUILDING TENANTS NORMAL BUSINESS OPERATIONS.
11. THE FIRE ALARM SYSTEM PANEL IS EXISTING TO REMAIN. ALL FIRE ALARM WORK SHALL REQUIRE THE USE OF OWNER APPROVED VENDOR. ALL WORK ASSOCIATED WITH THE FIRE ALARM SHALL BE COMPLETED UNDER A SEPARATE SET OF PERMIT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POINT TO POINT WIRING DIAGRAMS, BATTERY CALCULATIONS, RISER DIAGRAMS AND SIGNED AND SEALED SHOP DRAWINGS. THE FIRE ALARM SHALL BE RECERTIFIED UPON COMPLETION.
12. ALL WORK SHALL BE COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION/RECONNECTION ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL PLANS.

**DRAWING NOTES:**

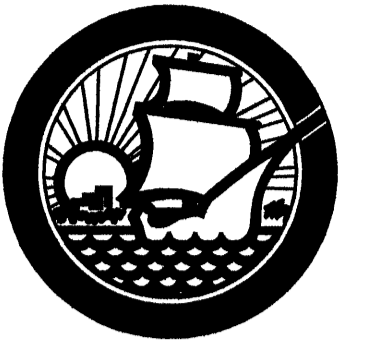
1. EXISTING EQUIPMENT AND DEVICES IN THIS ROOM/AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. EXISTING EQUIPMENT AND DEVICES IN THIS ROOM/AREA TO BE DEMOLISHED UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
3. EXISTING EQUIPMENT EQUIPMENT TO REMAIN.
4. EXISTING HVAC EQUIPMENT AND ASSOCIATED DISCONNECT, WIRES AND CONDUITS TO BE DEMOLISHED BACK TO SOURCE PANEL. COORDINATE WITH MECHANICAL CONTRACTOR.

REMARKS  
DATE  
REV.

PHASE - 2  
MANATEE  
FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number  
Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA  
Checked by:  
Al Meronek  
Date  
11-19-08  
Scale  
Set  
Drawing Number

E-2



REMARKS

DATE

REV.

PHASE - 2  
MANATEE FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by  
Al Meronek

Date  
11-19-08

Scale

Set

Drawing Number

E-3

SYM	MANUFACTURER	CATALOG NUMBER	LAMPS	MTG.	REMARKS
A	LITHONIA METALUX COLUMBIA DAY-BRITE	2RT5-2BTS-120-GE895	2-28W T5 3500 K 82 CRI	LAY-IN	2x 4' VOLUMETRIC FLUORESCENT LIGHT FIXTURE
A1	LITHONIA METALUX COLUMBIA DAY-BRITE	2RT5-2BTS-120-GE8115	2-14W T5 3500 K 82 CRI	LAY-IN	2x 2' VOLUMETRIC FLUORESCENT LIGHT FIXTURE
B	TBD	TO MATCH EXISTING FIXTURE			4' SURFACE FLUORESCENT LIGHT FIXTURE
C	LITHONIA METALUX COLUMBIA DAY-BRITE	LGFL-1/2TRT-6RW-FOL-120	1-32 TRT 4100 K 82 CRI	RECESSED	6" SHOWER COMPACT FLUORESCENT DOWNLIGHT UL LISTED FOR WET LOCATION
D	LIGHT CONCEPTS METALUX COLUMBIA DAY-BRITE	FMLR14-2-18DIT	2-18 DTT 4100 K 82 CRI	SURFACE	14" SURFACE LOW PROFILE ROUND LIGHT FIXTURE IN RESTROOM
E	LITHONIA METALUX COLUMBIA DAY-BRITE	2GTB-2-32-A12-120-GE8	2-32W T8 3500 K 85 CRI	LAY-IN	2' X 4' 2 LAMP PRISMATIC FLUORESCENT LIGHTING FIXTURE
G	LITHONIA METALUX COLUMBIA DAY-BRITE	AFV-42TRT-6AR-120	1-42W TRT 3500 K 82 CRI	RECESSED	6" OPEN REFLECTOR DOWNLIGHT
P	CANLET METALUX COLUMBIA DAY-BRITE	88-02-WF-01-100W-OG	(1) 100W A-19	WALL MOUNTED	ELEVATOR PIT LIGHT WITH GUARD
S	LITHONIA METALUX COLUMBIA DAY-BRITE	WC-2-32-120-GE810S	2-32W T8 3500 K 85 CRI	WALL	4' COMMERCIAL WALL BRACKET
W	LITHONIA METALUX COLUMBIA DAY-BRITE	VR1BH-1-32TRT-120-LPI	1-32W TRT 3500 K 82 CRI	WALL	WALL MOUNTED ROUGH SERVICE LIGHT FIXTURE UL LISTED FOR WET LOCATION
X	TBD	TO MATCH EXISTING EXT SIGN			EXT LIGHT

NOTES: FOR FIXTURE SCHEDULE

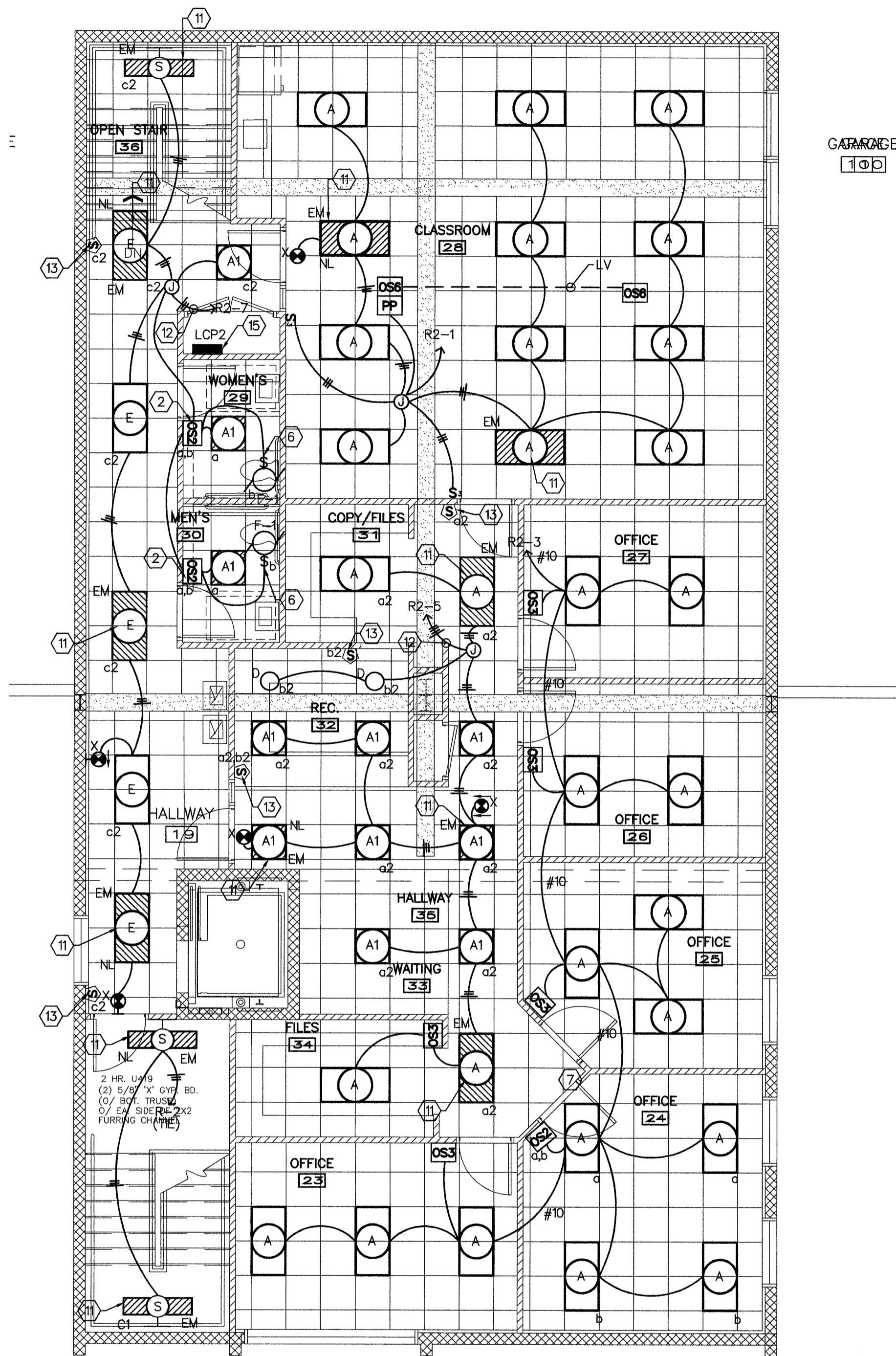
CONTRACTOR SHALL VERIFY ALL TYPES, TRIMS AND LIGHT FIXTURE COLORS WITH ARCHITECT/OWNER PRIOR TO BIDDING AND/OR ORDERING.

ELECTRICAL NOTES:

- ELECTRICAL WORK IN THIS ROOM/AREA IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- PROVIDE WALL MOUNTED OCCUPANCY SENSOR WITH INTEGRAL OVERRIDE SWITCH BY LEVITON OR EQUAL. REFER TO OCCUPANCY SENSORS SCHEDULE ON THIS SHEET AND DETAILS ON SHEET E-6. LOCATE AND CONNECT OCCUPANCY SENSOR PER M.F.R. RECOMMENDATIONS.
- FIELD VERIFY AND COORDINATE FINAL LIGHT LOCATIONS IN THE ROOM WITH RACK LAYOUTS, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- RELOCATED OR NEW LIGHTING FIXTURE. NEW LIGHTING FIXTURE TO MATCH EXISTING.
- RELOCATED OR NEW EXIT SIGN. NEW EXIT SIGN TO MATCH EXISTING.
- PROVIDE FINAL CONNECTION TO EXHAUST FAN. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
- PROVIDE CEILING MOUNTED OCCUPANCY SENSOR BY LEVITON OR EQUAL. REFER TO OCCUPANCY SENSORS SCHEDULE ON THIS SHEET AND DETAILS ON SHEET E-6. LOCATE AND CONNECT OCCUPANCY SENSOR PER M.F.R. RECOMMENDATIONS.
- TIE NEW LIGHTING FIXTURE TO EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT. FIELD VERIFY EXACT BRANCH CIRCUIT.
- TIE INTO EXISTING LIGHTS CIRCUIT IN THIS AREA. CONTRACTOR SHALL VERIFY WITH AN AMP PROBE THIS EXISTING CIRCUIT CAN ACCOMMODATE THE REARRANGED OR NEW LIGHT FIXTURES AND BALANCE THE BRANCH CIRCUIT LOADS ACCORDINGLY.
- PROVIDE ALL NIGHT LIGHT, EMERGENCY AND EXIT POWER WITH UNSWITCHED CONDUCTOR AHEAD OF LIGHT SWITCH/OCCUPANCY SENSOR.
- PROVIDE LIGHTING FIXTURE DESIGNATE WIT 'EM' WITH GENERATOR TRANSFER DEVICE GTD BY BODINE. CONNECT PER MFR RECOMMENDATION AND INSTRUCTION.
- ROUTE HOMERUN VIA RELAY/S IN LIGHTING CONTROL PANEL (LCP1 FOR FIRST FLOOR; LCP2 FOR SECOND FLOOR). CONTROL FOR ON DURING BUSINESS HOURS. PROVIDE UNSWITCHED CONDUCTOR FOR ALL EMERGENCY AND EXIT POWER.
- PROVIDE DIGITAL LIGHTING SWITCHES AS MANUFACTURED BY LEVITON. REFER TO LIGHTING PLAN FOR DIGITAL SWITCH LOCATIONS AND DESIGNATIONS. LIGHT SWITCH TO PROVIDE ON-OFF CONTROL OF LIGHTS AND AFTER HOURS OVERRIDE. CONNECT LOW VOLTAGE SWITCHES TO LCP PER MFR RECOMMENDATIONS.
- PROVIDE MASTER LIGHTING CONTROL PANEL (LCP1) 2-MAX WITH 8 LIGHTING SWITCHING RELAYS, INTERNAL TIME CLOCK WITH ASTRONOMICAL CLOCK BY LEVITON. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER.
- PROVIDE SLAVE LIGHTING CONTROL PANEL (LCP2) 2-MAX WITH 4 LIGHTING SWITCHING RELAYS BY LEVITON. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER.

GRINER ENGINEERING, INC.  
1628 First Avenue North  
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Fax: (727)-821-3361  
Certificate of Authorization #3173

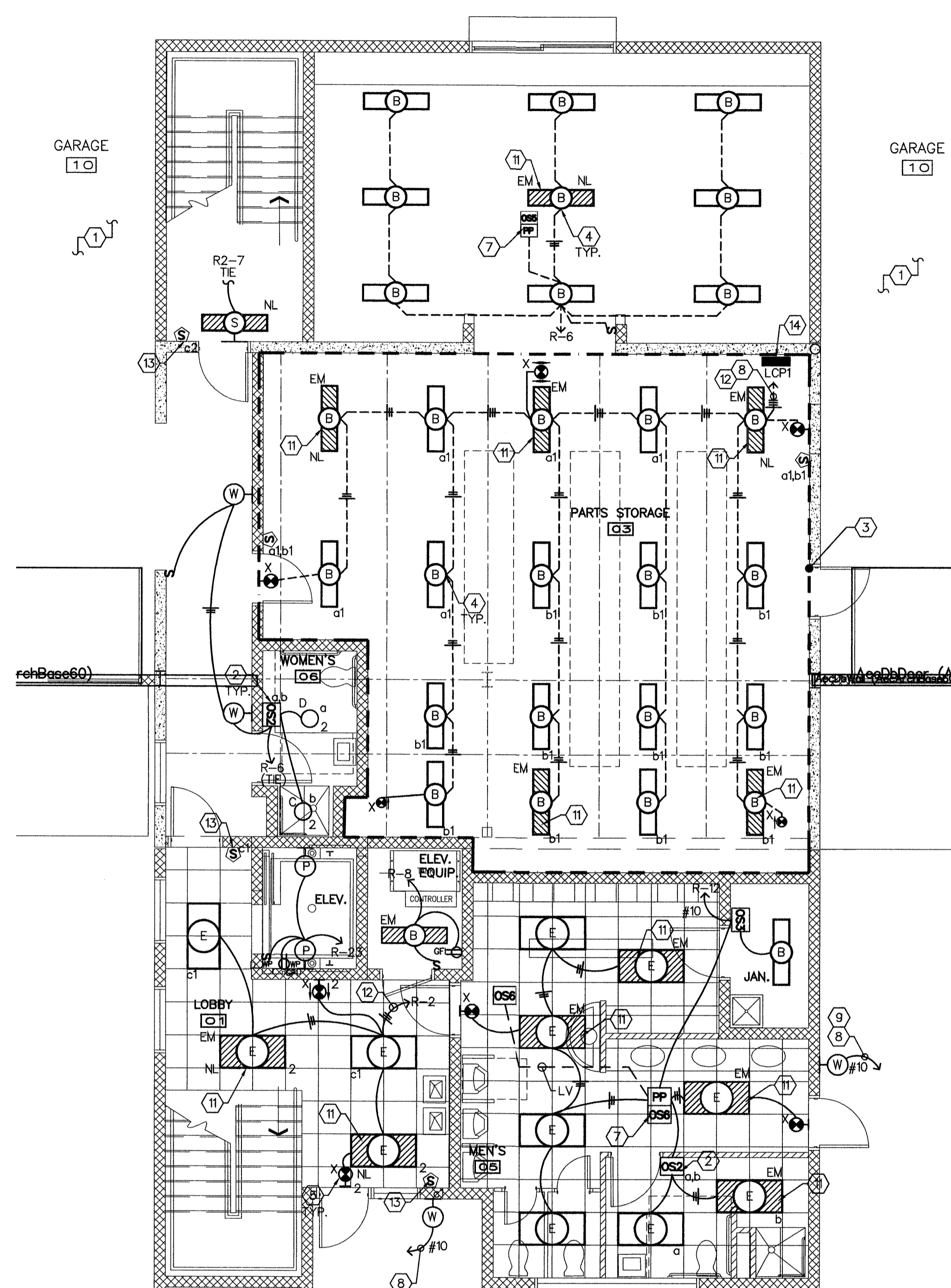
Date: 11/19/2008  
Drawn: IT  
Designed: IT  
Revised:  
Job no.: 08087



SECOND FLOOR LIGHTING PLAN  
3/16" = 1'-0"

GENERAL NOTES:

- ELECTRICAL CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK WITH OWNER/ARCHITECT.
- COORDINATE EXACT LIGHT LAYOUTS, MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT/OWNER AND MECHANICAL EQUIPMENT.
- ALL NEW ELECTRICAL EQUIPMENT AND DEVICES SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
- LAMPING AND/OR BALLASTS TO BE REPAIRED AND/OR REPLACED, AS NEEDED, IN EXISTING LIGHT FIXTURES THROUGHOUT SUITE. ELECTRICAL CONTRACTOR TO VERIFY THAT LAMPS IN ALL FIXTURES ARE WITH SAME TYPE AND COLOR TEMPERATURE.



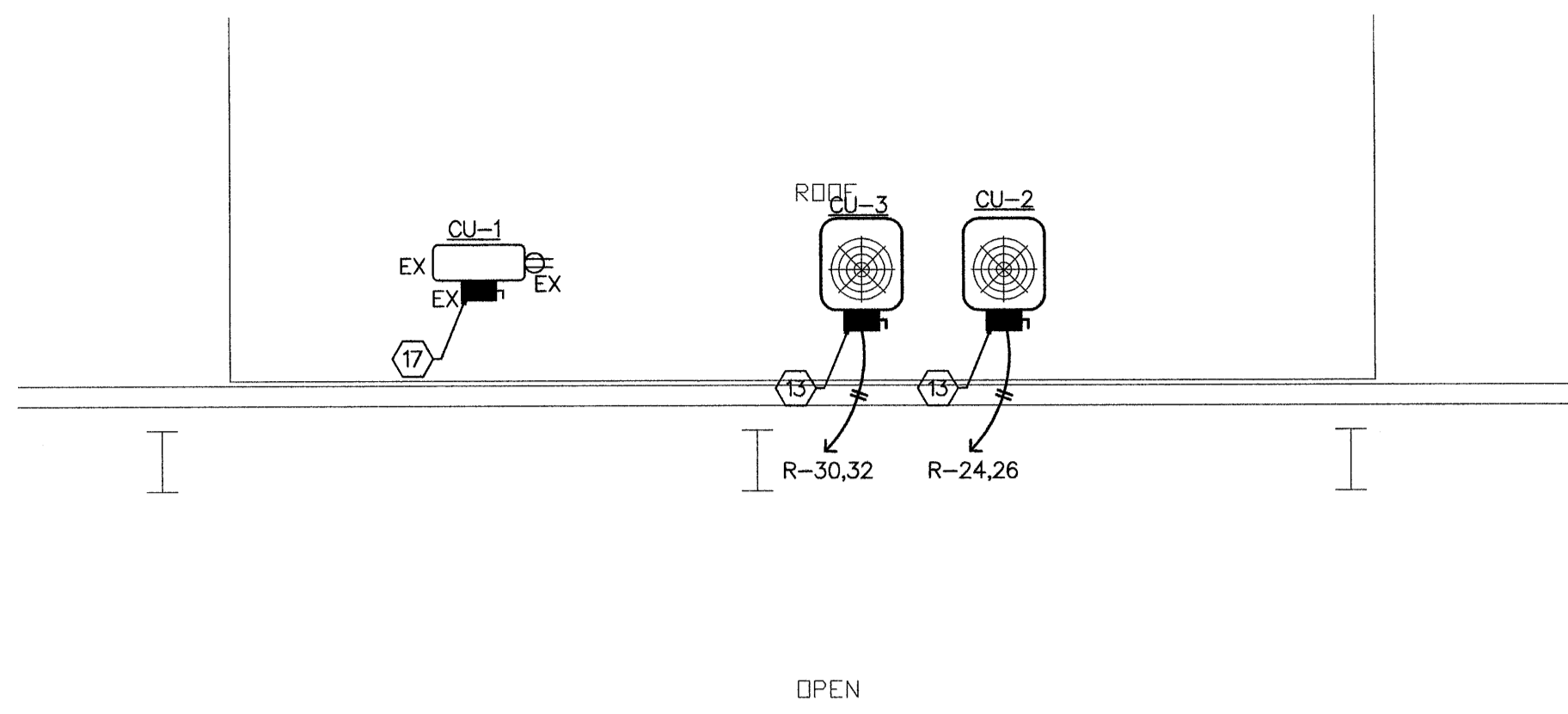
FIRST FLOOR LIGHTING PLAN  
3/16" = 1'-0"

SENSOR LEGEND:

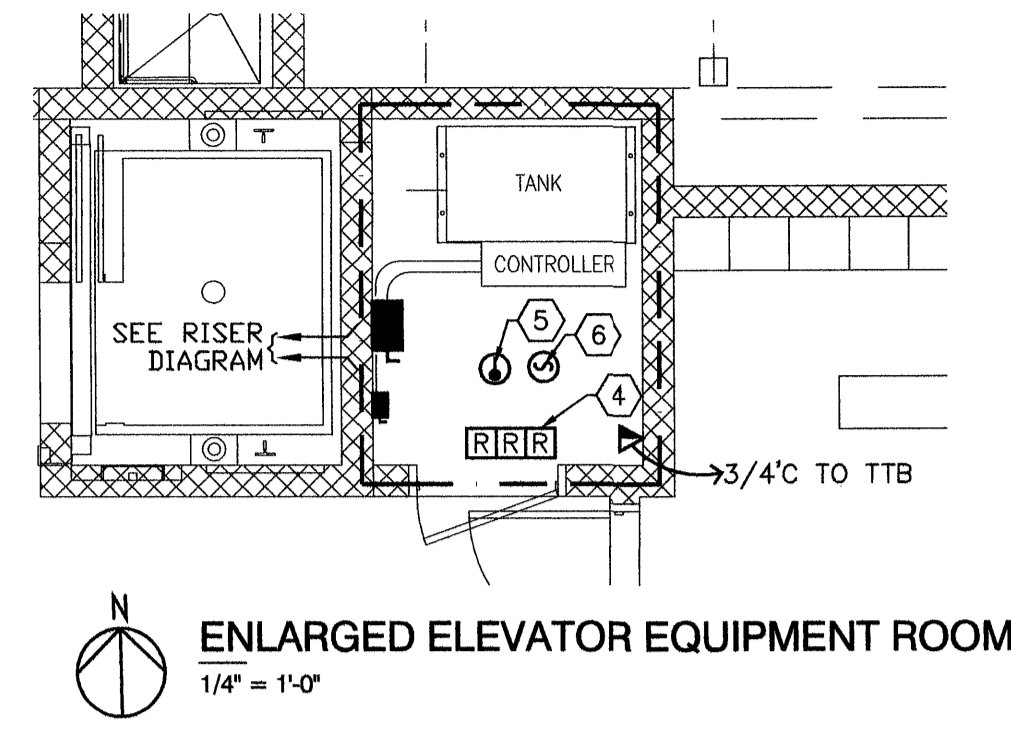
- OS1** WALL MOUNTED DUAL TECH WALL SWITCH OCCUPANCY SENSOR # OSSMT-MOW BY LEVITON. PROVIDE WITH MANUAL OVER RIDE SWITCH.
- OS2** WALL MOUNTED DUAL TECH WALL SWITCH OCCUPANCY SENSOR # OSSMD-MOW WITH TWO RELAYS BY LEVITON. PROVIDE WITH MANUAL OVER RIDE SWITCH.
- OS3** WALL MOUNTED PIR OCCUPANCY SWITCH SENSOR # OSD10-ID BY LEVITON. PROVIDE WITH MANUAL OVER RIDE SWITCH.
- OS8** CEILING MOUNTED 1000 SQ FT LOW VOLTAGE OCCUPANCY SENSOR # OSC10-MOW BY LEVITON, WITH POWER PACK (PP) OSP
- OS9** CEILING MOUNTED 2000 SQ FT LOW VOLTAGE OCCUPANCY SENSOR # OSC20-MOW BY LEVITON, WITH POWER PACK (PP) OSP

SENSOR NOTES:

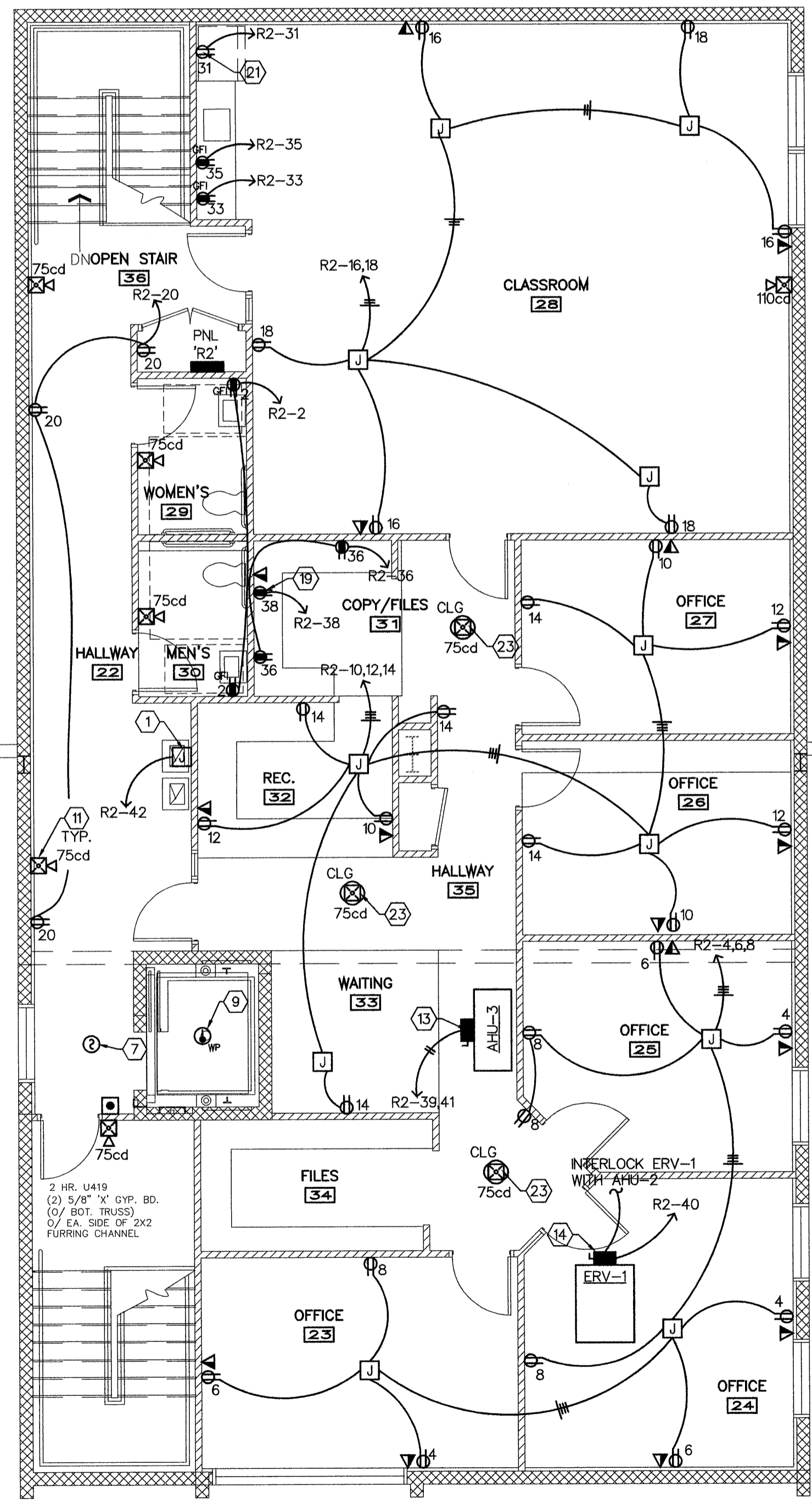
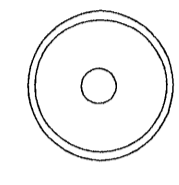
- PROVIDE SENSORS MANUFACTURED BY LEVITON.
- PROVIDE A POWER PACK IF NEEDED. POWER PACK IS CONTROLLED BY LOW VOLTAGE SENSOR.
- ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE. DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT. CONSULT MFR REPRESENTATIVE PRIOR TO ROUGH-IN.
- SENSOR MASKING KITS MAY BE REQUIRED TO LIMIT COVERAGE DEPENDING ON YOUR REQUIREMENTS. CONSULT MFR REPRESENTATIVE PRIOR TO ROUGH-IN.



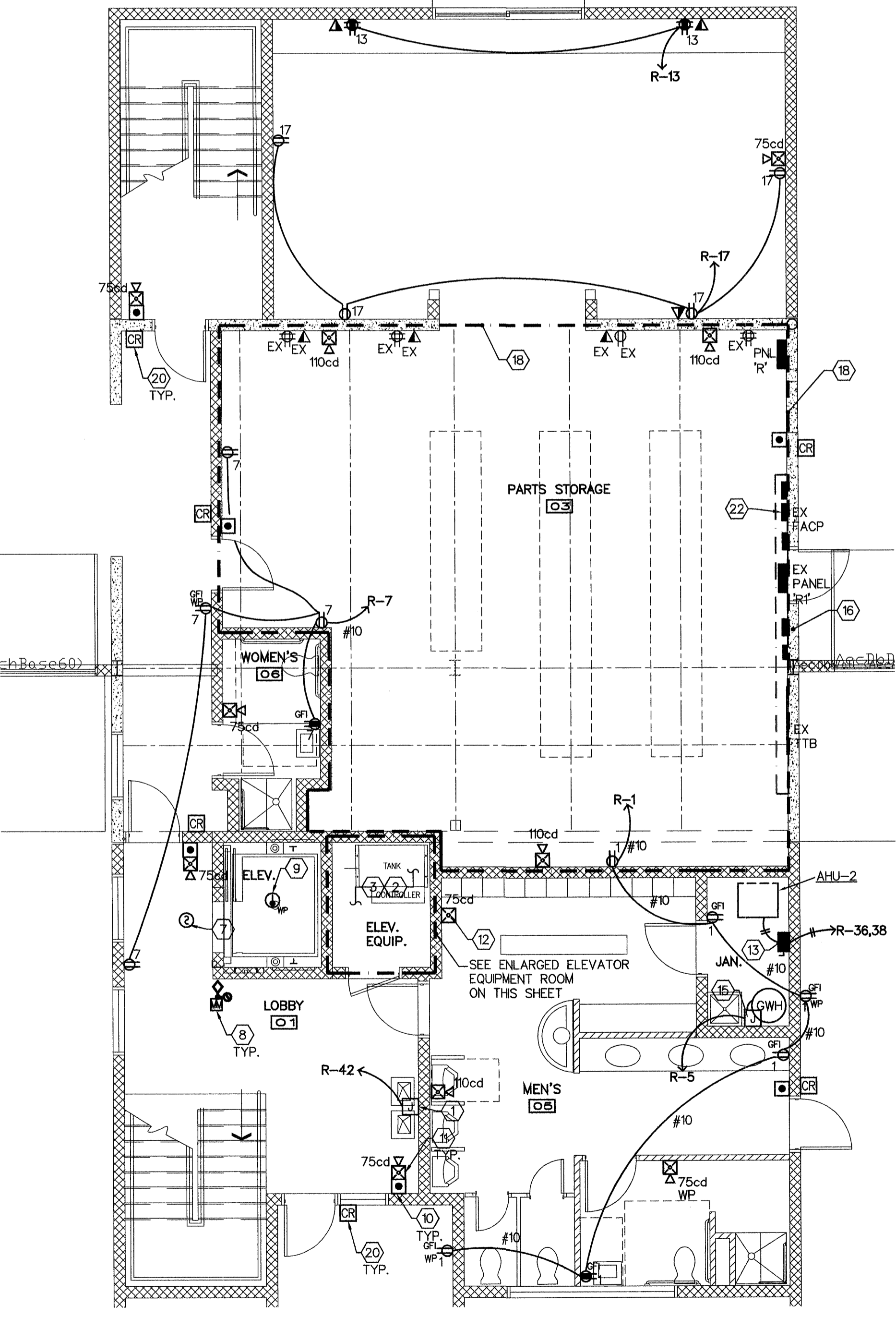
OPEN



**ENLARGED ELEVATOR EQUIPMENT ROOM**  
1/4" = 1'-0"



**SECOND FLOOR POWER & SYSTEMS PLAN**  
3/16" = 1'-0"



**FIRST FLOOR POWER & SYSTEMS PLAN**  
3/16" = 1'-0"

**ELECTRICAL NOTES:**

1. PROVIDE FINAL CONNECTION TO ELECTRICAL WATER COOLER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR. REFER TO PLUMBING SCHEDULE.
2. COORDINATE LOCATIONS OF ALL EQUIPMENT IN ELEVATOR EQUIPMENT ROOM WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS AND COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE FIRE ALARM RELAYS AS REQUIRED FOR ELEVATOR RECALL. COORDINATE WITH ELEVATOR CONTRACTOR. TIE TO EXISTING FIRE ALARM PANEL.
5. PROVIDE HEAT DETECTOR LOCATED IN ELEVATOR EQUIPMENT ROOM FOR ELEVATOR SHUNT TRIP. TIE TO EXISTING FIRE ALARM PANEL.
6. PROVIDE SMOKE DETECTOR LOCATED IN ELEVATOR EQUIPMENT ROOM FOR ELEVATOR RECALL. TIE TO EXISTING FIRE ALARM PANEL.
7. PROVIDE SMOKE DETECTOR PROVIDED AT ELEVATOR LOBBY FOR ELEVATOR RECALL AND CAPTURE. TIE TO EXISTING FIRE ALARM PANEL.
8. PROVIDE FINAL FIRE ALARM CONNECTION TO TAMPER SWITCH AND FLOW SWITCHES. COORDINATE EXACT LOCATIONS WITH FIRE SPRINKLER CONTRACTOR AND SHOP DRAWINGS. TYPICAL. TIE TO EXISTING FIRE ALARM PANEL.
9. PROVIDE AND LOCATE WP HEAT DETECTOR IN PIT WITHIN 24" OF SPRINKLER HEAD. TIE TO EXISTING FIRE ALARM PANEL.
10. RELOCATED OR NEW FIRE ALARM MANUAL FIRE ALARM PULL STATION - WALL MOUNTED 48" AFF. NEW FIRE ALARM MANUAL STATION TO MATCH EXISTING. TIE TO EXISTING FIRE ALARM PANEL.
11. RELOCATED OR NEW FIRE ALARM HORN/STROBE - 80" AFF TO BOTTOM. NEW FIRE ALARM HORN/STROBE TO MATCH EXISTING. TIE TO EXISTING FIRE ALARM PANEL.
12. RELOCATED OR NEW FIRE ALARM STROBE - 80" AFF TO BOTTOM. NEW FIRE ALARM STROBE TO MATCH EXISTING. TIE TO EXISTING FIRE ALARM PANEL.
13. PROVIDE FINAL CONNECTION TO HVAC UNIT. REFER TO THE HVAC BRANCH CIRCUIT AND REQUIREMENTS WITH MECHANICAL CONTRACTOR AND DRAWINGS.
14. PROVIDE FINAL CONNECTION TO ERV-1. INTERLOCK ERV-1 WITH AHU-2. ERV-1 SHALL RUN ONLY WHEN AHU-2 RUNS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR AND DRAWINGS.
15. PROVIDE FINAL CONNECTION TO GAS WATER HEATER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR AND DRAWINGS.
16. EXISTING FIRE ALARM, TELEPHONE AND SECURITY EQUIPMENT TO REMAIN. FIELD VERIFY EXACT LOCATION.
17. EXISTING HVAC EQUIPMENT PROVIDED DURING PHASE 1 SHOWN ONLY FOR REFERENCE.
18. EXISTING ELECTRICAL OUTLETS TO REMAIN. FIELD VERIFY AND COORDINATE FINAL OUTLET LOCATIONS IN THE ROOM WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. IF REQUIRED RELOCATED EXISTING RECEPTACLES TO NEW LOCATIONS. ALL EXISTING WIRES AND CONDUITS IN THE EXISTING ROOM SHALL BE SUPPORTED PROPERLY PER NEC. COORDINATE WITH SECURITY, IT AND FIRE ALARM CONTRACTORS.
19. PROVIDE RECEPTACLE FOR COPIER. VERIFY FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
20. PROVIDE JUNCTION BOX FOR CARD READER. EXTEND A 3/4" EMPTY CONDUIT FOR SECURITY WIRING FROM JUNCTION BOX. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH SECURITY SYSTEM INSTALLER, ARCHITECT AND OWNER.
21. PROVIDE RECEPTACLE FOR REFRIGERATOR. VERIFY FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
22. EXISTING FIRE ALARM CONTROL PANEL. PROVIDE ADDITIONAL POWER SUPPLY IF REQUIRED.
23. NEW FIRE ALARM HORN/STROBE - CEILING MOUNTED. NEW FIRE ALARM HORN/STROBE TO MATCH EXISTING. TIE TO EXISTING FIRE ALARM PANEL.

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK WITH OWNER/ARCHITECT.
2. FIELD COORDINATE EXACT EQUIPMENT LAYOUTS, POWER REQUIREMENTS, MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT/OWNER.
3. FIRE ALARM WORK SHALL BE DONE BY APPROVED BY OWNER FIRE ALARM CONTRACTOR. NEW FIRE ALARM DEVICE TO MATCH EXISTING. TIE ALL FIRE ALARM DEVICE TO EXISTING FIRE ALARM CONTROL PANEL.

HVAC UNITS DISCONNECT AND FEEDER SCHEDULE				
UNIT ID.	WIRE AND CONDUIT SIZES	DISCONNECT	MCA	MOCP
AHU-2	2 # 6 AND 1 #10 E.G. - 1" C	60/2/50	47	50
AHU-3	2 # 6 AND 1 #10 E.G. - 1" C	60/2/50	47	50
CU-2	2 # 6 AND 1 #10 E.G. - 1" C	60/2/60/3R	34.5	60
CU-3	2 # 6 AND 1 #10 E.G. - 1" C	60/2/60/3R	34.5	60
ERV-1	2 # 10 AND 1 #10 E.G. - 3/4" C	30/2/25	19.3	25

**MANATEE COUNTY GOVERNMENT**



Facilities Management  
1112 Manatee Avenue West  
Suite 803, P.O. Box 1000  
Bradenton, Florida 34206  
(941) 748-4501  
FAX (941) 742-5880

REMARKS  
DATE  
REV.

PHASE - 2  
MANATEE FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number  
Drawn by: Yehuda Inbar AIA  
Checked by: Al Meronek  
Date: 11-19-08

Scale  
Set  
Drawing Number

**G** GRINER ENGINEERING, INC.  
1028 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727) 422-2355  
Fax: (727) 421-3361  
Certificate of Authorization #3173

Date: 11/19/2008  
Drawn: IT  
Designed: IT  
Revised:  
Job no.: 08067

**E-4**



REV. DATE REMARKS

PHASE - 2  
MANATEE FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by: Yehuda Inbar AIA  
Inbar architect AIA

Checked by: Al Meronek

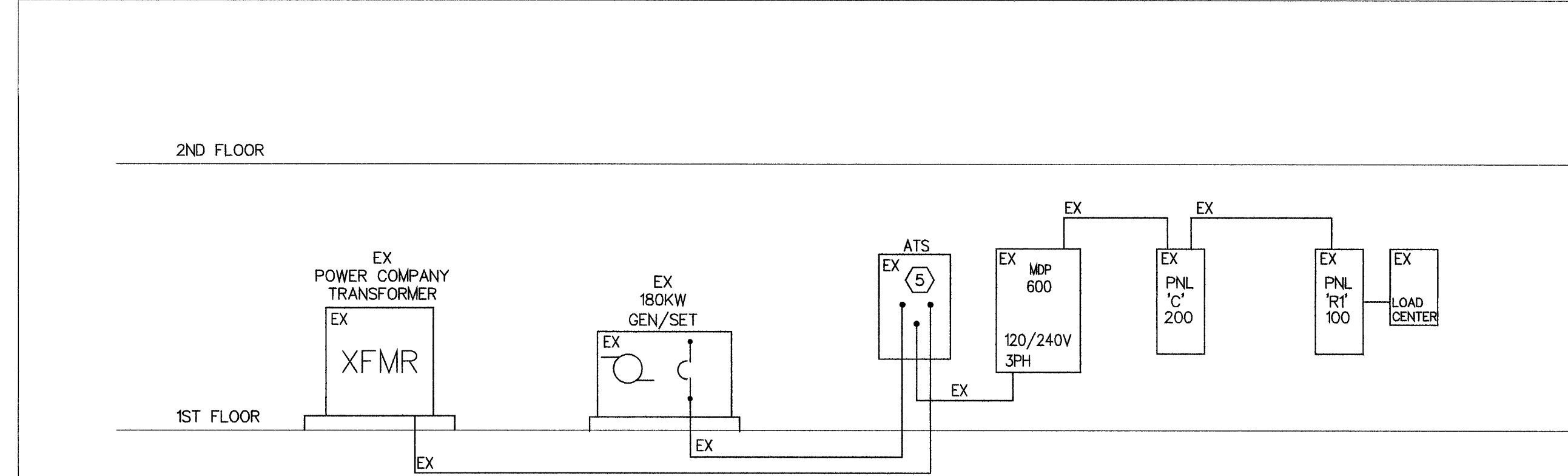
Date: 11-19-08

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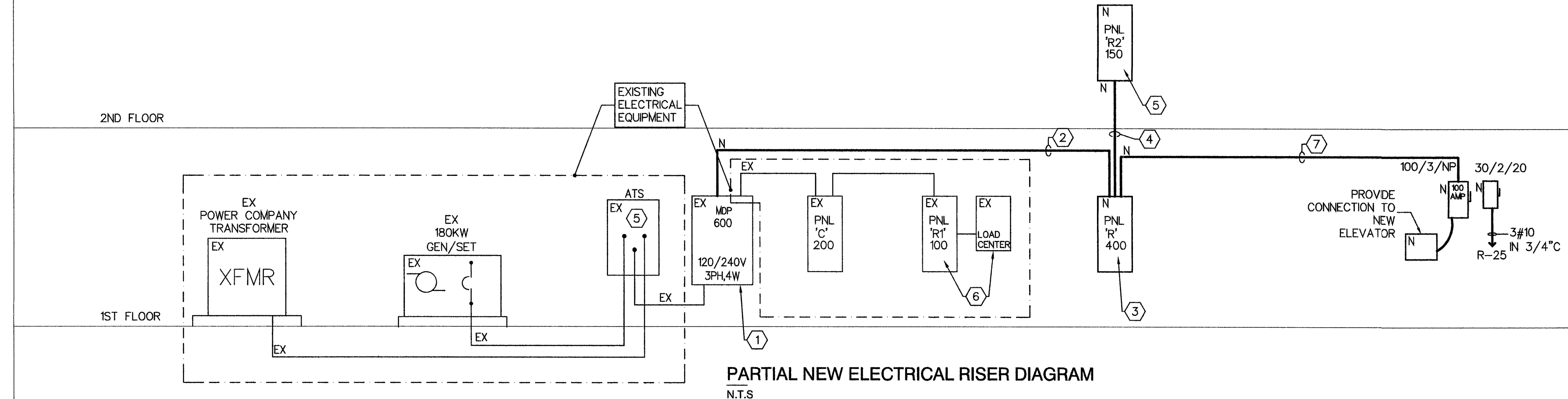
Drawing Number

E-5



PARTIAL EXISTING ELECTRICAL RISER DIAGRAM  
N.T.S.

- GENERAL NOTES:
- ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS AND TO REPORT TO GENERAL CONTRACTOR, ARCHITECT, OWNER AND ENGINEER ANY DISCREPANCY FROM THAT SHOWN ON DRAWINGS.
  - ALL NEW ELECTRICAL SERVICE EQUIPMENT, TRANSFORMER, PANELS, BREAKERS, AND DEVICES SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
  - ALL FIRE ALARM WORK SHALL INCORPORATE THE USE OF APPROVED BY OWNER VENDOR.
  - ELECTRICAL CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK AND PHASES OF WORK WITH OWNER AND ARCHITECT.



PARTIAL NEW ELECTRICAL RISER DIAGRAM  
N.T.S.

- RISER NOTES:
- EXISTING MDP PANEL TO REMAIN. PROVIDE NEW 400 AMP, 3 PH CIRCUIT BREAKER FOR THIS PROJECT. NEW BREAKER TO MATCH EXISTING TYPE AND AIC. IDENTIFIED HIGH LEG IN PANEL 'MDP' AS REQUIRED PER NEC. FIELD VERIFY HIGH LEG. IF REQUIRED REARRANGE EXISTING OR DEMOLISH UNUSED CIRCUIT BREAKERS (TEMPORALLY OFFICE TRAILERS AND ETC.) TO PROVIDE REQUIRED SPACE FOR NEW BREAKER. ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL PHASE 2 WORK WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTION.
  - EXTEND 4 #500KCMIL AND 1 #3 EG IN 3-1/2" C.
  - PROVIDE NEW 3PH, 400 MLO, 120/240V PANEL 'R'. REFER TO PANEL SCHEDULE ON THIS SHEET.
  - EXTEND 3 #2/0 AND 1 #6 EG IN 2" C. (NO HIGH LEG IN FEEDER)
  - PROVIDE NEW 1PH, 120/240V PANEL 'R2'. (NO HIGH LEG IN PANEL). REFER TO PANEL SCHEDULE ON THIS SHEET.
  - EXISTING ELECTRICAL PANEL DIRECTORY IS NOT UPDATED. ELECTRICAL CONTRACTOR SHALL TRACE ALL EXISTING BRANCH CIRCUITS IN THE PANEL AND UPDATE THE EXISTING PANEL DIRECTORY ACCORDINGLY.
  - EXTEND 3 #1/0 AND 1 #6 EG IN 2" C. COORDINATE WITH ELEVATOR INSTALLER AND DRAWINGS PRIOR TO ROUGH-IN.

PANEL MDP EXISTING		SURFACE MOUNTED 120/240 VOLT 3 PHASE** 4 WIRE WITH GROUND		600A MCB NEMA 1	
NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	B	C
1	OFFICE UPSTAIRS	100 3 240			
3	OFFICE TRAILERS	100 3 240			
5	PANEL 'R3'	100 3 240			
7	PANEL 'A'	200 3 240			
9	PANEL 'W'	200 3 240			
11	PANEL 'R' (**), (***)	400 3 240	36198	9407	38051
CONNECTED VA SYSTEM VOLTS PHASE AMPS			36198	9407	38051
CONNECTIONS			302	78	317
LOAD TYPE					
1	LIGHTING	0	1.25	0	VA
2	RECEPTACLES	0	220.13	0	VA
3	AIR CONDITIONING	0	0	0	VA
4	HEATING	0	0	0	VA
5	MISC. NON-CONTINUOUS	33658	1	83658	VA
6	CONTINUOUS	0	1.25	0	VA
7	KITCHEN	0	0.65	0	VA
TOTAL			83658	VA	
TOTAL AMPS			201	AMPS	

PANEL R		SURFACE MOUNTED 120/240 VOLT 3 PHASE 4 WIRE WITH GROUND FIELD VERIFY HIGH LEG PHASE IF REQUIRED REARRANGE PANEL BREAKER		400A MLO NEMA 1 42,000 AIC	
NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	B	C
2	STORAGE/RESTROOM RECEPTACLES	20 1 120	1080	1095	
3	SPACE (H LEG)	20 1 120			
5	OFFICE	20 1 120			
7	CORRIDOR/STORAGE RECEPTACLES	20 1 120	540	250	
11	LOBBY/RESTROOM RECEPTACLES	20 1 120			
13	SPACE (H LEG)	20 1 120			
15	SPACE (H LEG)	20 1 120			
17	OFFICE RECEPTACLES	20 1 120			
19	SPACE (H LEG)	20 1 120			
21	SPACE (H LEG)	20 1 120			
23	ELEVATOR PIT L.S. RECEPTACLES	20 1 120			
25	ELEVATOR CAB (*)	20 1 120	1000	3350	
27	SPACE (H LEG)	20 1 120			
29	PANEL 'R2'	175 2 240	11658	3350	
31	SPACE (H LEG)	20 1 120			
33	SPACE (H LEG)	20 1 120			
35	SPACE (H LEG)	20 1 120			
37	ELEVATOR (*)	100 3 240	9407	4468	
39	SPACE (H LEG) (25 HP)				
41	SPACE (H LEG)				
CONNECTED VA SYSTEM VOLTS PHASE AMPS			36198	9407	38051
CONNECTIONS			302	78	317
LOAD TYPE					
1	LIGHTING	6435	1.25	89475	VA
2	RECEPTACLES	9630	220.13	9630	VA
3	AIR CONDITIONING	13400	0	0	VA
4	HEATING	17872	1	17872	VA
5	MISC. NON-CONTINUOUS	36321	1	36321	VA
6	CONTINUOUS	0	1.25	0	VA
7	KITCHEN	0	0.65	0	VA
TOTAL			71867	VA	
TOTAL AMPS			173	AMPS	

PANEL R2		SURFACE MOUNTED 120/240 VOLT 1 PHASE 3 WIRE WITH GROUND		175A MLO NEMA 1 22,000 AIC		
NO.	DESCRIPTION	BREAKER TRIP POLE VOLT	A	C	DESCRIPTION	
1	OFFICE LIGHTING	20 1 120	820	360	RESTROOM RECEPTACLES	
3	OFFICE LIGHTING	20 1 120		780	540	OFFICE RECEPTACLES
5	OFFICE LIGHTING	20 1 120	740	540	OFFICE RECEPTACLES	
7	CORRIDOR LIGHTING	20 1 120		920	720	OFFICE RECEPTACLES
9	SPACE	20 1 120		540	120	OFFICE RECEPTACLES
11	SPACE	20 1 120		540	120	OFFICE RECEPTACLES
13	SPACE	20 1 120	900		120	OFFICE RECEPTACLES
15	SPACE	20 1 120		540	120	CLASS ROOM RECEPTACLES
17	SPACE	20 1 120		540	120	CLASS ROOM RECEPTACLES
19	SPACE	20 1 120		540	120	CORRIDOR/CLOSET RECEPTACLE
21	SPACE	20 1 120			120	SPARE
23	SPACE	20 1 120			120	SPARE
25	SPACE	20 1 120			120	SPARE
27	SPACE	20 1 120			120	SPARE
29	SPACE	20 1 120			120	SPARE
31	REFRIGERATOR	20 1 120		1200	120	SPARE
33	COUNTER RECEPTACLE	20 1 120	500		120	SPARE
35	COUNTER RECEPTACLE	20 1 120		500	360	RECEPTACLES
37	SPACE	20 1 120		1500	120	COOPER
39	AHU-3 (**)	50 2 240		4468	1900	EX (**)
41	SPACE (H LEG)					EW/C (**)
CONNECTED VA SYSTEM VOLTS PHASE AMPS			11658	13008		
CONNECTIONS			97	108		
LOAD TYPE						
1	LIGHTING	6120	1.25	4075	VA	
2	RECEPTACLES	6120	1	6120	VA	
3	AIR CONDITIONING	0	0	0	VA	
4	HEATING	8936	1	8936	VA	
5	MISC. NON-CONTINUOUS	6350	1	6350	VA	
6	CONTINUOUS	0	1.25	0	VA	
7	FUTURE LOAD	0	0	0	VA	
TOTAL			25481	VA		
TOTAL AMPS			106	AMPS		

LOAD SUMMARY NOTES:

THE EXISTING BUILDING LOAD ON THE MAIN SWITCHBOARD IS 75 KW PEAK DEMAND OBTAINED FROM FLORIDA POWER & LIGHTING

LOAD TO BE REMOVED:

1 LIGHTING	3.3 KVA
2 RECEPTACLE	5.2 KVA
3 HVAC	14.1 KVA
<b>TOTAL DELETED:</b>	<b>22.6 KVA</b>

NEW LOAD

1 LIGHTING	6.5 KVA
2 RECEPTACLE	9.7 KVA
3 HVAC	17.8 KVA
4 MISC.	8.1 KVA
5 ELEVATOR	28.2 KVA
<b>TOTAL NEW LOAD:</b>	<b>70.3 KVA</b>

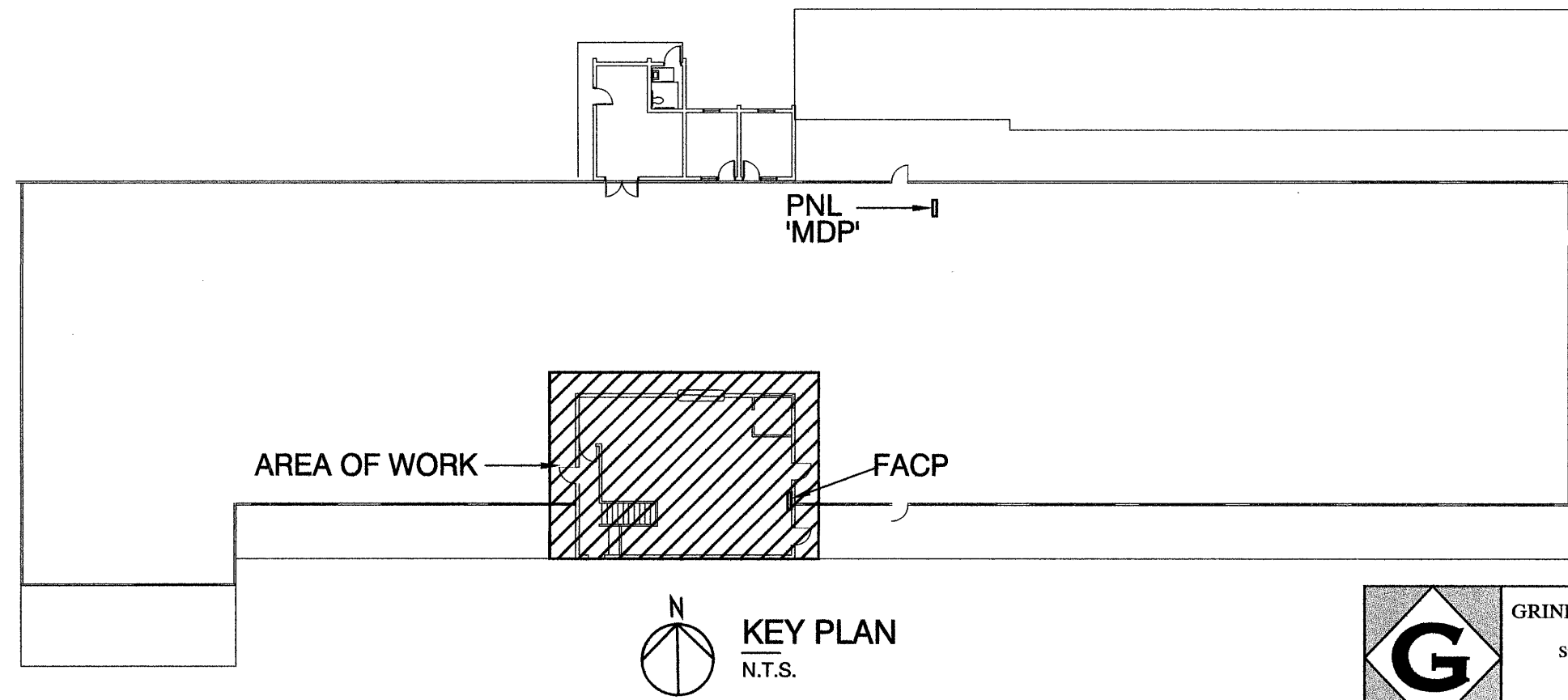
LOAD

<b>LOAD</b>	<b>47.7 KVA</b>
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ELECTRICAL PANEL SCHEDULES  
N.T.S.

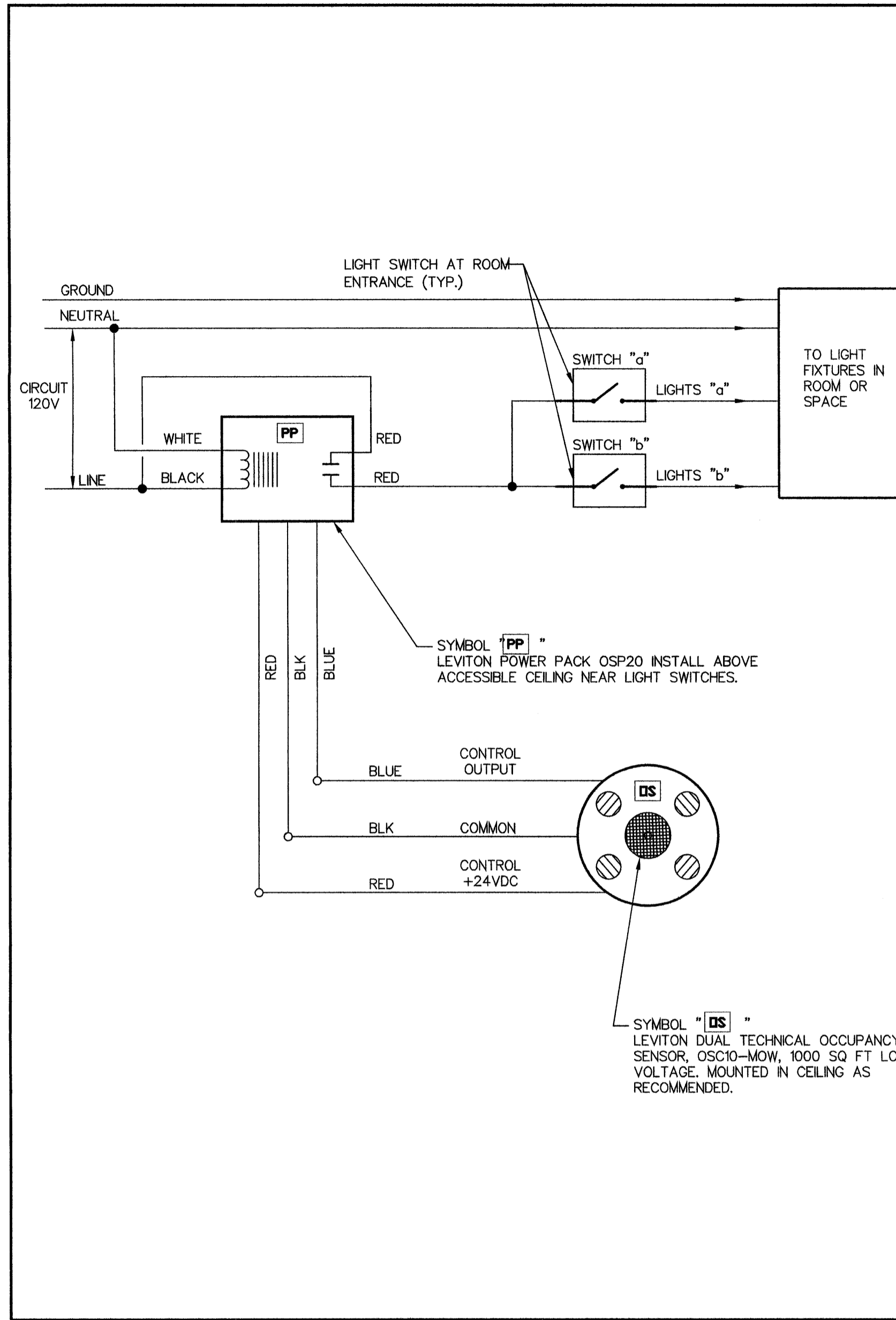
ELECTRICAL LOAD CALCULATIONS NOTE:

THE EXISTING ELECTRICAL SERVICE IS 120/240V, 3 PHASE WITH HIGH LEG. THE ENTIRE BUILDING IS ON 180 KW, 3PH GENERATOR. DUE TO SPECIFIC ELECTRICAL SYSTEM VOLTAGE, 120/240V, 3PH WITH HIGH LEG AND WITHOUT METERING READING FOR EACH CURRENT PHASE (A, B AND C) THE ELECTRICAL SERVICE AND THE GENERATOR CAN NOT BE DETERMINED THAT THEY HAVE SUFFICIENT CAPACITY. IF IT IS REQUIRED TO VERIFY THAT THE ELECTRICAL SERVICE OR/AND THE GENERATOR SERVICE HAVE ADEQUATE CAPACITY, THE METERING READING FOR EACH CURRENT PHASE (A, B AND C) IS REQUIRED PRIOR TO ROUGH-IN.

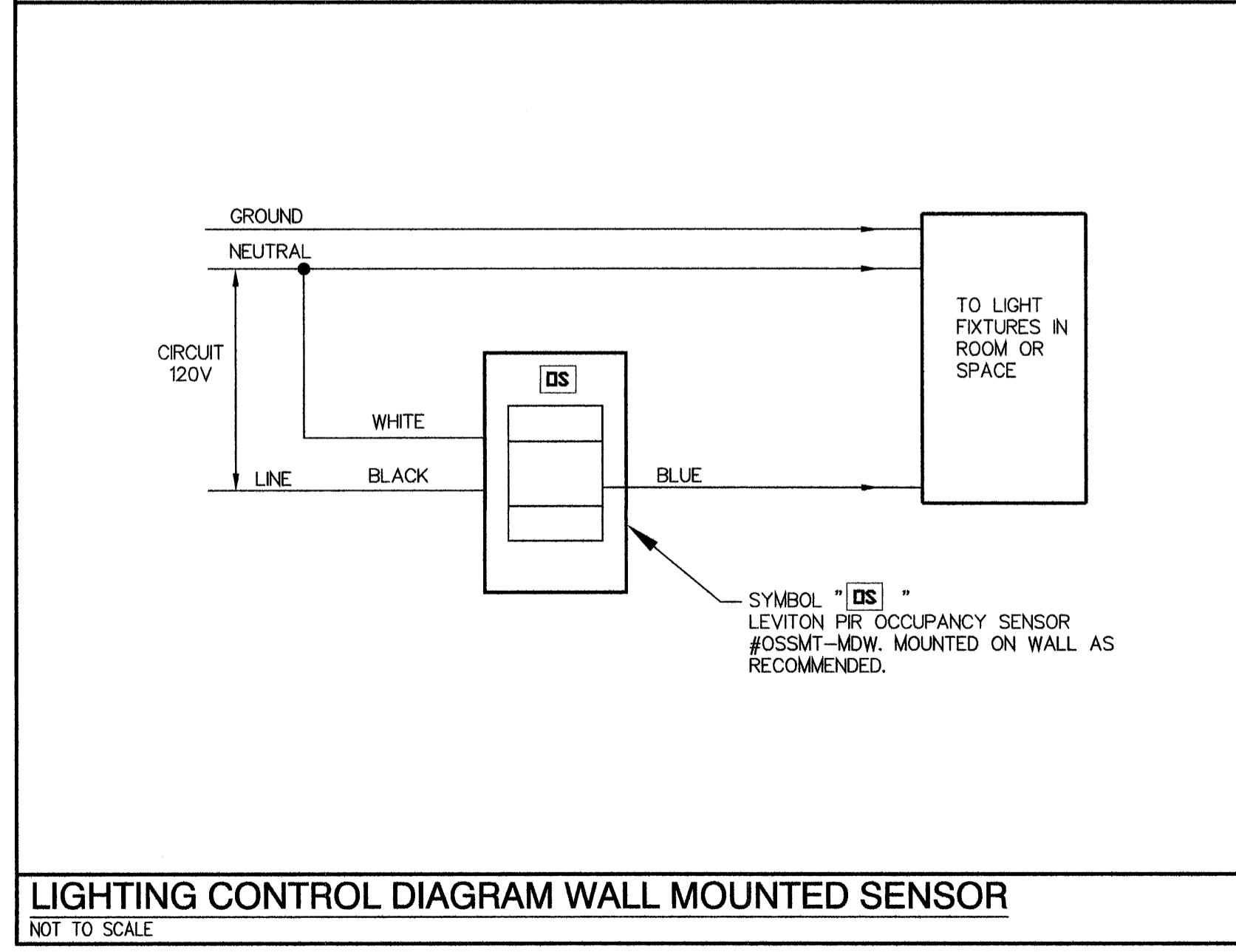


GRINER ENGINEERING, INC.  
1628 First Avenue North  
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Phone: (727) 822-2335  
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Certificate of Authorization #1373

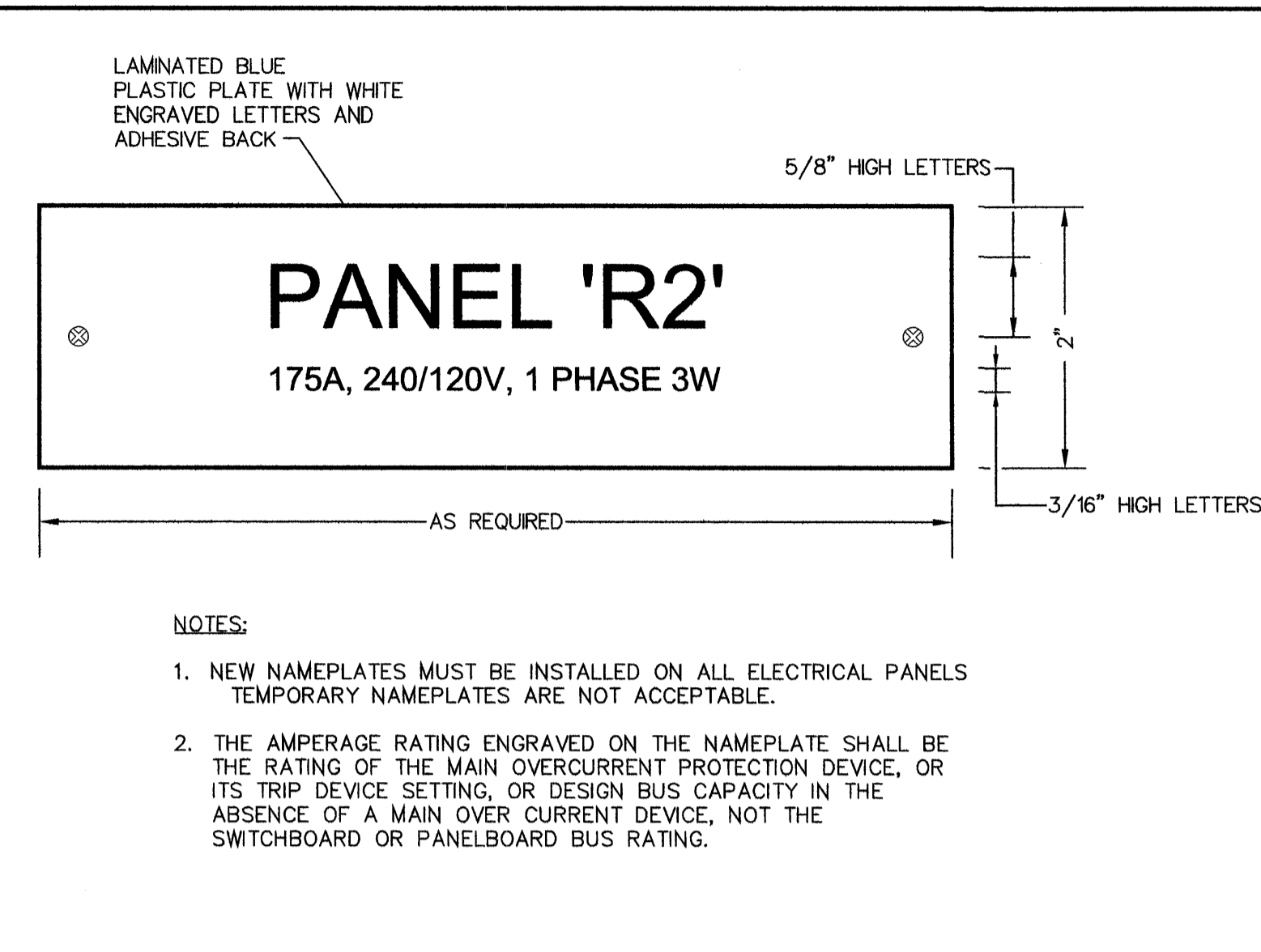
Date: 11/19/2008  
Drawn: IT  
Designed: IT  
Revised:  
Job no.: 09067



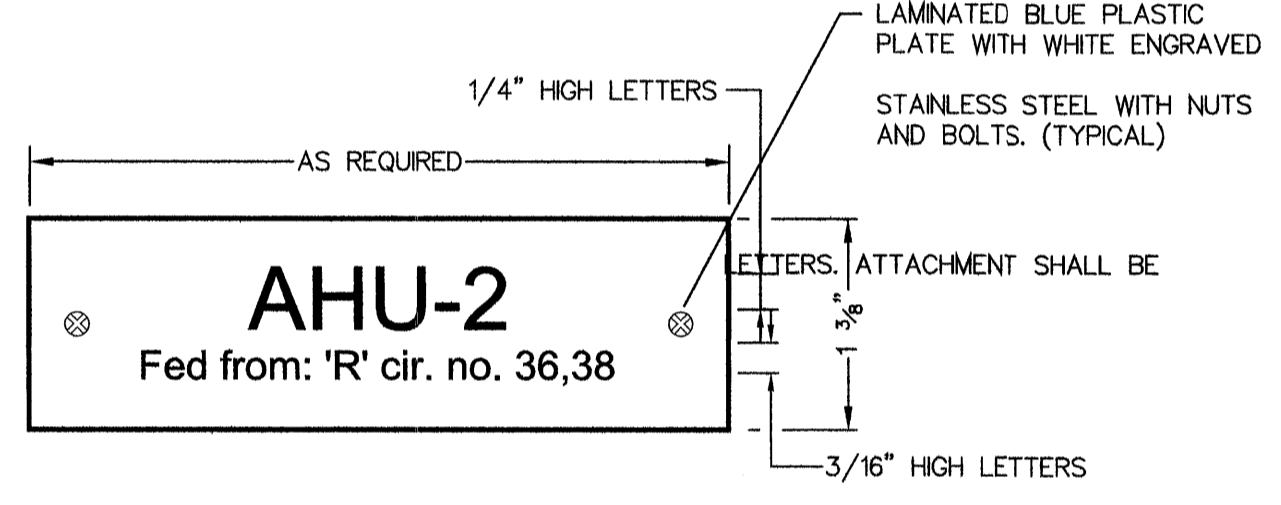
**LIGHTING CONTROL DIAGRAM-CEILING MOUNTED SENSOR**  
NOT TO SCALE



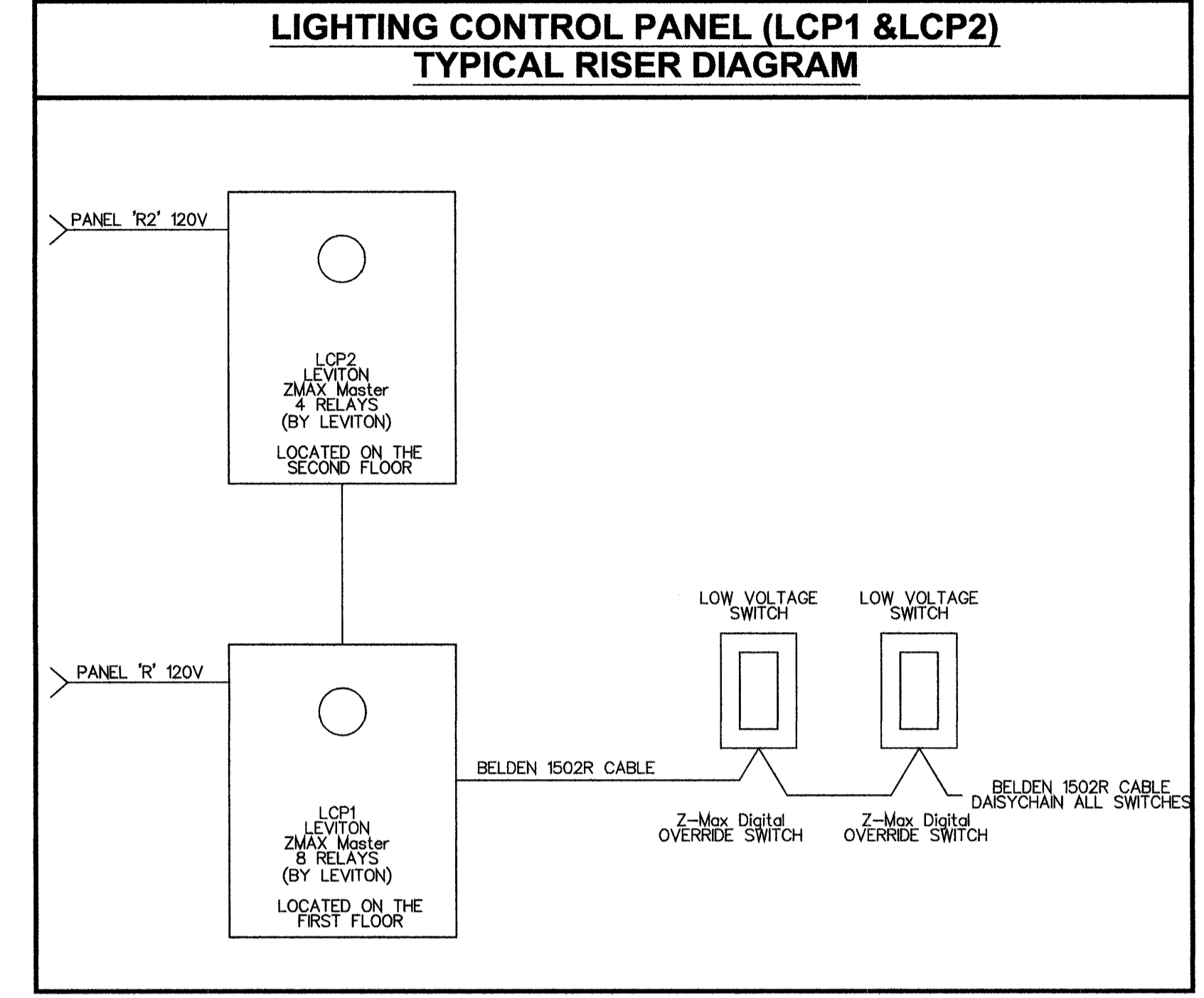
**LIGHTING CONTROL DIAGRAM WALL MOUNTED SENSOR**  
NOT TO SCALE



**TYPICAL PANELBOARD NAMEPLATE DETAIL**  
NOT TO SCALE



**TYPICAL HVAC UNIT NAMEPLATE DETAIL**  
NOT TO SCALE



**MANATEE FLEET SERVICE**

**MASTER LIGHTING CONTROL PANEL- LCP1, LOCATED ON THE FIRST FLOOR Z-MAX 8 RELAYS- LIGHTING CONTROL SCHEDULES**

RELAY	CONTROL	LOAD					
NO	N / EM	VOLT AC	LOAD WVA	CIRCUIT DESIGNATION	FIXTURE TYPE	CONTROL DESCRIPTION	NOTE
1	N/EM	120V	510	PART STORAGE LIGHTING	FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "a1"
2	N/EM	120V	740	PART STORAGE LIGHTING	FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "b1"
3	N/EM	120V	1095	CORRIDOR	FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "c1"
4		120V		SPARE			
5		120V		SPARE			
6		120V		SPARE			
7		120V		SPARE			
8		120V		SPARE			

**SLAVE LIGHTING CONTROL PANEL- LCP2, LOCATED ON THE SECOND FLOOR Z-MAX 4 RELAYS- LIGHTING CONTROL SCHEDULES**

RELAY	CONTROL	LOAD					
NO	N / EM	VOLT AC	LOAD WVA	CIRCUIT DESIGNATION	FIXTURE TYPE	CONTROL DESCRIPTION	NOTE
1	N/EM	120V	780	OFFICE LIGHTING	FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "a2"
2	N/EM	120V	740	OFFICE LIGHTING	COMPACT FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "b2"
3	N/EM	120V	920	CORRIDOR	FLUORESCENT	ON DURING NORMAL BUSINESS HOURS	RELAY DESIGNATION "c2"
4		120V		SPARE			

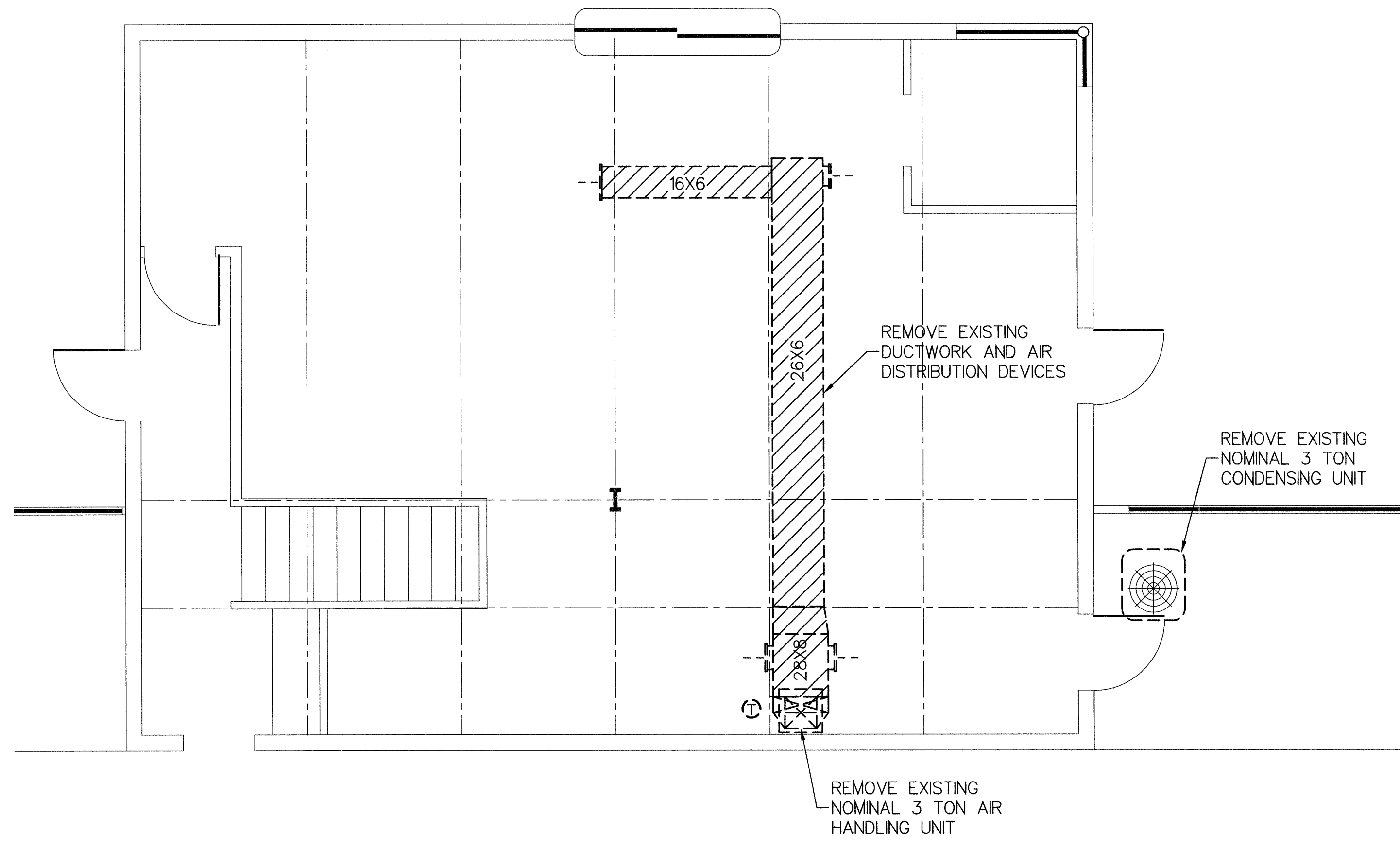
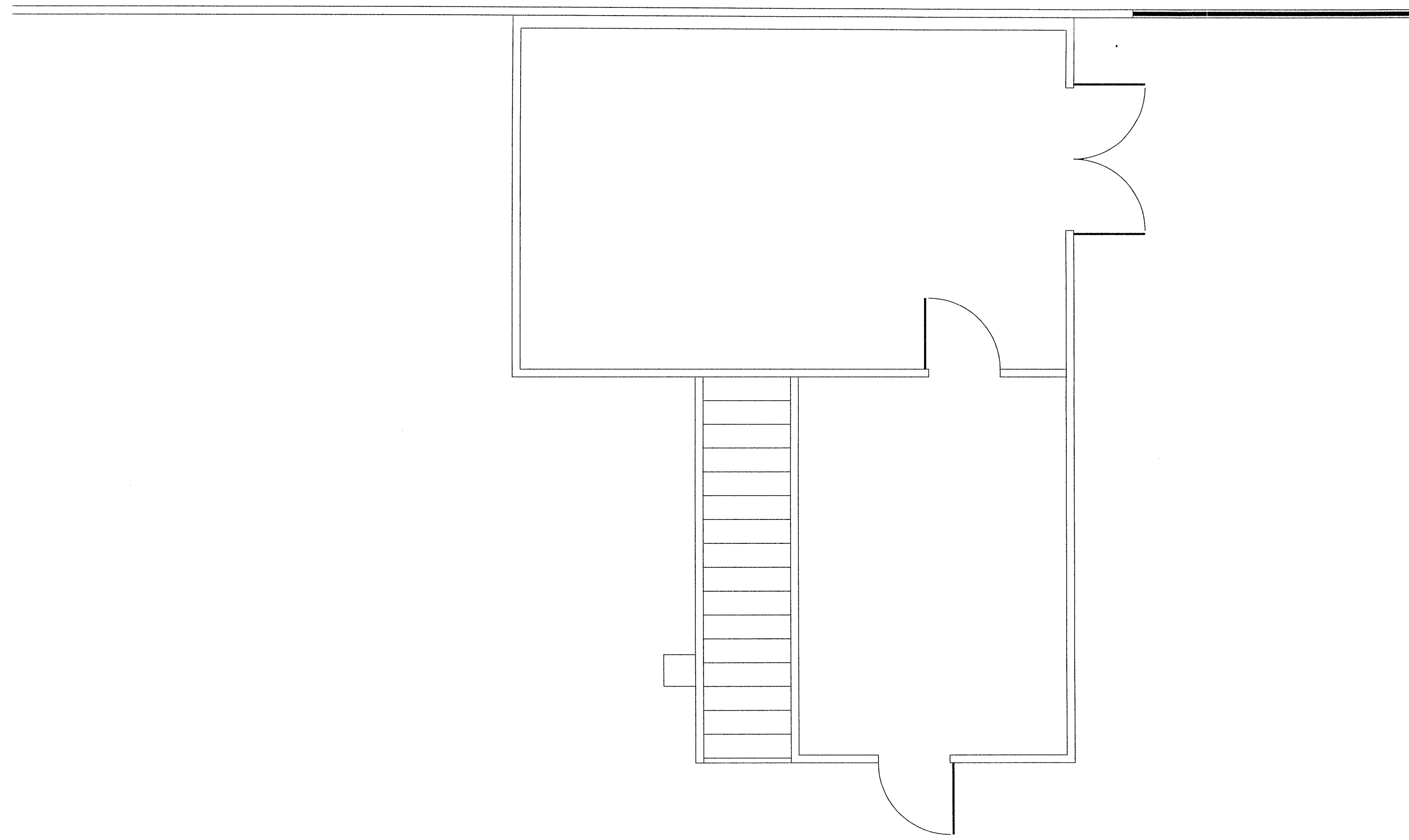
GENERAL NOTES:  
1. EQUAL MANUFACTURER SHALL BE: ILC AND LIGHTING CONTROL DESIGN  
2. ALL ALTERNATIVE SELECTIONS MUST BE SUBMITTED FOR PRIOR APPROVAL TO GRINER ENGINEERING FOURTEEN (14) DAYS PRIOR TO BID DATE. ANY SUBMISSIONS FOR APPROVAL MUST HAVE M.F.R. CUT SHEETS, WIRING DIAGRAM, AND CONTROL SCHEDULES AND LAYOUT FOR ENGINEER'S REVIEW OF EQUALITY OF MANUFACTURERS.  
3. CONTRACTOR SHALL VERIFY ALL RELAY TYPE, FIXTURE LOAD AND DEVICE LAYOUT WITH ARCHITECT AND OWNER PRIOR TO BIDDING AND OR ORDERING. NO EXCEPTIONS.  
4. COORDINATE FINAL OVERRIDE SWITCHES LOCATIONS WITH ARCHITECT AND OWNER.

REV.	DATE	REMARKS

**PHASE - 2**  
**MANATEE FLEET SERVICES**  
 1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number  
Drawn by: Yehuda Inbar AIA  
Inbar architect AIA  
Checked by: Al Meronek  
Date: 11-19-08

Scale  
Set  
Drawing Number



**FIRST FLOOR MECHANICAL DEMOLITION PLAN**  
3/16" = 1'-0"

**HVAC GENERAL NOTES**

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE - MECHANICAL, NATIONAL ELECTRIC CODE, NFPA AND ALL LOCAL ORDINANCES.
2. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
3. REFER TO ARCHITECTURAL PLANS FOR EXACT CEILING GRID AND DIFFUSER LOCATIONS.
4. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL HAVE STUDIED AND COMPARED THE CONTRACT DOCUMENTS WITH EXISTING/PROPOSED CONDITIONS AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE BID OPENING SHALL REPORT TO THE ENGINEER ANY ERROR, INCONSISTENCY, OR OMISSION IN THE CONTRACT DOCUMENTS.
5. ALL METALLIC DUCTWORK SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT. PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRM AND ANGLES FOR SUPPORT OF DUCTWORK.
6. FABRICATE DUCT FITTINGS TO MATCH ADJOINING DUCTS AND TO COMPLY WITH DUCT REQUIREMENTS AS APPLICABLE TO FITTINGS. LIMIT ANGULAR TAPERS TO 30 DEGREES FOR CONTRACTING TAPERS AND 20 DEGREES FOR EXPANDING TAPERS.
7. PROVIDE FLEXIBLE CONNECTION FROM EACH DUCTWORK CONNECTION AIR MOVING EQUIPMENT.
8. ALL DUCTS SHOWN ARE INSIDE CLEAR DIMENSIONS.
9. PROVIDE ACCESS PANELS IN CEILINGS FOR ACCESS TO VOLUME DAMPERS, FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, AND WHERE REQUIRED FOR MAINTENANCE OF ALL FANS AND MECHANICAL EQUIPMENT. PANELS SHALL HAVE A FIRE RATING EQUAL TO THE PENETRATED ASSEMBLY. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF FIREWALLS.
10. INSULATE OUTSIDE AIR, SUPPLY, AND RETURN DUCTWORK WITH INSULATION WHICH HAS A MINIMUM R-VALUE OF 6. ALL DUCTWORK INSULATION, FITTINGS, COVERS AND FINISHES SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 AND ALL BE IN COMPLIANCE WITH NFPA 90A.
11. LOCATE ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL THERMOSTATS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER.
12. CONTRACTOR SHALL CLEAN ALL COILS AND REPLACE ALL FILTERS AND BELTS AT SUBSTANTIAL COMPLETION.
13. AIR CONDITIONING EQUIPMENT SHALL BE AS SPECIFIED. ARCHITECT AND ENGINEER WILL REVIEW ANY SUBSTITUTION FOR COMPATIBILITY.
14. DUCT SIZES AND EQUIPMENT OPENINGS THRU ROOFS, SLABS AND WALL PARTITIONS SHALL SUIT EQUIPMENT FURNISHED. SEE SHOP DRAWINGS FOR EQUIPMENT DIMENSIONS.
15. PROVIDE "P" TRAP AT AIR HANDLER UNITS.
16. SLEEVE AND SEAL ALL PIPING PASSING THROUGH WALLS, FLOORS AND ROOF UNLESS NOTED OTHERWISE.
17. ALL CUTTING, PATCHING AND REPAIR WORK SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.
18. A COPY OF THE FINAL TEST AND BALANCE REPORT, REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD SHALL BE MADE AVAILABLE AT THE FINAL CONSTRUCTION SURVEY. NO FINAL INSPECTION OF HVAC CONSTRUCTION BY THE ENGINEER OF RECORD WILL BE CONDUCTED PRIOR TO RECEIPT AND ACCEPTANCE OF A FINAL TEST AND BALANCE REPORT.
19. THE MAXIMUM ALLOWABLE LEAKAGE FOR THE DUCTWORK IS 2%.
20. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR HVAC EQUIPMENT AND DUCTWORK SHOWN ON THE PLANS AND SPECIFICATIONS FOR THE ENGINEER'S APPROVAL. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REDO ANY WORK, WHICH WAS NOT APPROVED, OR THE ENGINEER MAY REQUIRE A CREDIT TO THE OWNER. PROVIDE A SET OF AS BUILTS AFTER THE JOB IS COMPLETED. THIS SET SHALL BE CONTINUOUSLY UPDATED DURING CONSTRUCTION.
21. PROVIDE AIR TURNING VANES AT ALL 90-DEGREE ELBOWS. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKEOFF AS INDICATED IN THE SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
22. PROVIDE FILTER RACKS WHICH ARE ACCESSIBLE FOR MAINTENANCE AND SEALED AIR TIGHT.
23. CONTRACTOR SHALL INSTALL HVAC SYSTEMS AS REQUIRED BY THE MANUFACTURER AND ENGINEER TO INSURE QUIET OPERATION. NO UNDUE VIBRATION OR SOUND SHALL BE TRANSMITTED TO BUILDING STRUCTURE AND OCCUPIED AREAS. IF THE EQUIPMENT INSTALLED HAS A HIGHER SOUND PRESSURE LEVEL THAN THE EQUIPMENT SPECIFIED, THEN IT WILL BE THE CONTRACTORS AND THE MANUFACTURER'S RESPONSIBILITY TO ELIMINATE ANY ADDITIONAL NOISE TRANSMISSION.

**GENERAL SYMBOLS**

- UC UNDER CUT DOOR (INCHES GIVEN)
- EXHAUST/RETURN AIRFLOW DIRECTION
- SUPPLY AIRFLOW DIRECTION
- KEYED NOTE
- DIAMETER
- CONNECTION POINT
- AIR DEVICE IDENTIFICATION
- AIRFLOW
- AIR DEVICE NECK SIZE
- TEMPERATURE SENSOR
- THERMOSTAT (MTD. 4'-0" AFF)

**DUCTWORK LEGEND**

- EXISTING DUCTWORK  
SIZE IN INCHES (PLAN DIM. FIRST)
- NEW DUCTWORK  
SIZE IN INCHES (PLAN DIM. FIRST)
- CEILING DIFFUSER (SUPPLY, RETURN, & EXHAUST)
- NESTED SQUARE/RECTANGULAR BRANCH TAKE OFF
- SPIN-IN FITTING WITH VOLUME DAMPER AND EXTRACTOR
- DUCT TRANSITION (RECTANGLE TO RECTANGLE)
- DUCT TRANSITION (RECTANGLE TO ROUND)
- DUCT TEE WITH TURNING VANES
- DUCT ELBOW UP
- DUCT ELBOW DOWN
- 90 ELBOW WITH TURNING VANES
- 90 RADIUS ELBOW (R=L5W)
- 45 BRANCH TAKE-OFF WITH VOLUME DAMPER
- DUCT ACCESS DOOR
- FIRE DAMPER (VERTICAL POSITION)
- FIRE DAMPER (HORIZONTAL POSITION)
- MOTORIZED VOLUME DAMPER IN DUCTWORK
- MANUAL VOLUME DAMPER IN DUCTWORK
- DUCT MOUNTED SMOKE DETECTOR
- SEAWALL RETURN GRILLE
- SEAWALL SUPPLY GRILLE
- FLEXIBLE DUCT CONNECTOR

**PIPING AND VALVES LEGEND**

- REF REFRIGERANT PIPE
- CD CONDENSATE DRAIN
- ELBOW - 90 DEGREE
- ELBOW - 45 DEGREE
- ELBOW - TURNED UP
- ELBOW - TURNED DOWN
- CAP
- UNION

**MANATEE COUNTY GOVERNMENT**

Facilities Management  
1112 Manatee Avenue West  
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REMARKS	DATE	REV.

**PHASE - 2**  
**MANATEE FLEET SERVICES**  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

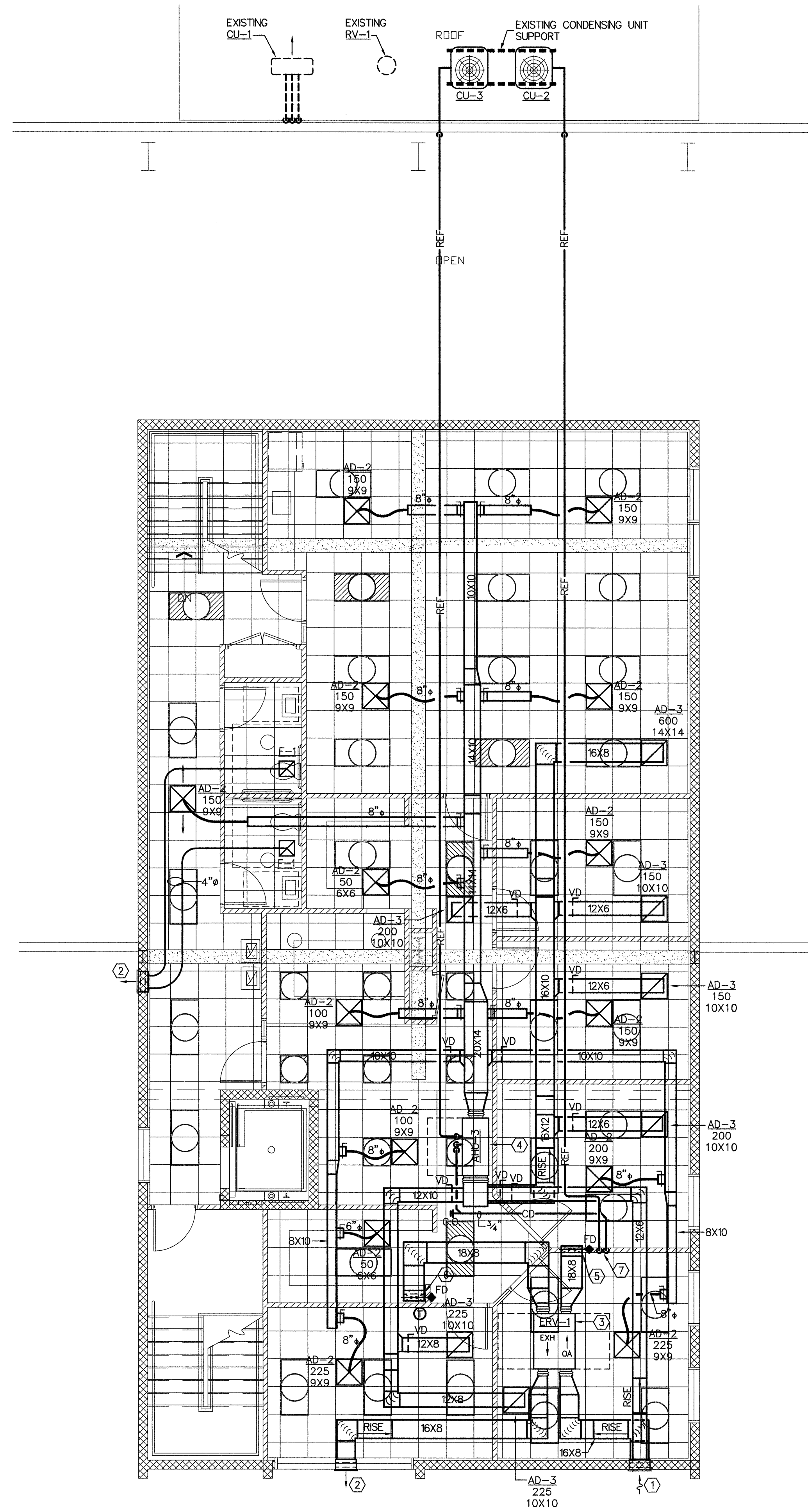
Project Number  
Drawn by: Yehuda Inbar AIA  
Inbar architect AIA  
Checked by: Al Meronek  
Date: 11-19-08

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Drawing Number

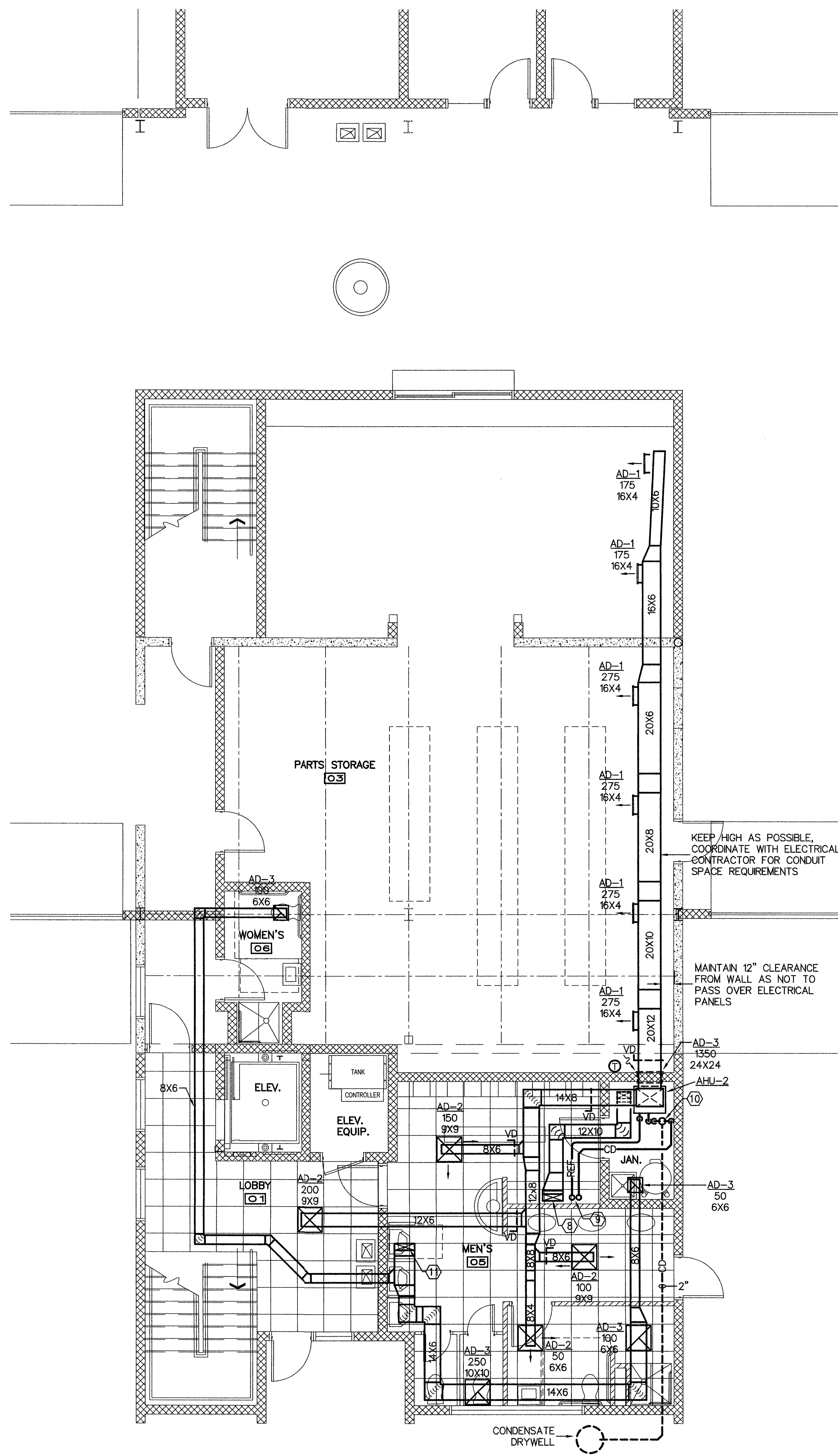
**M-1**

**GRINER ENGINEERING, INC.**  
1628 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727) 822-2335  
Fax: (727) 821-3361  
Certificate of Authorization #3173

Date	11/19/08
Drawn	JWY
Designed	JWY
Revised	
Job no.	08067



**SECOND FLOOR MECHANICAL PLAN**  
3/16" = 1'-0"

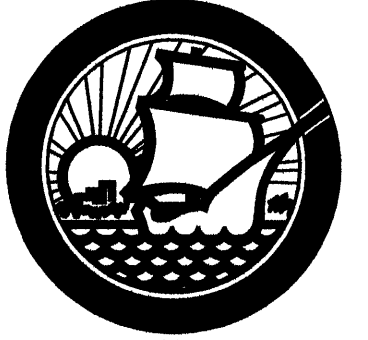


**FIRST FLOOR MECHANICAL PLAN**  
3/16" = 1'-0"

**KEYED NOTES:**

- ① 16X16 O.A. INTAKE AIR LOUVER MOUNTED AT BOT. OF STRUCTURAL TIE BEAM, FLA. PRODUCT APPROVED, GREENHECK MODEL 6350 OR APPROVED EQUAL.
- ② 16X16 EXHAUST AIR LOUVER MOUNTED AT BOT. OF STRUCTURAL TIE BEAM, FLA. PRODUCT APPROVED, GREENHECK MODEL 6350 OR APPROVED EQUAL.
- ③ ENERGY RECOVERY VENTILATOR MOUNTED 12" ABOVE LAY-IN CEILING, MAINTAIN 30" MIN. CLEARANCE ON EACH SIDE OF UNIT FOR SERVICE AND MAINTENANCE CLEARANCE.
- ④ AIR HANDLING UNIT MOUNTED 12" ABOVE LAY-IN CEILING, MAINTAIN 30" MIN. CLEARANCE ON SERVICE SIDE OF UNIT FOR SERVICE AND MAINTENANCE CLEARANCE.
- ⑤ OUTSIDE SUPPLY DUCT DOWN IN CHASE WALL TO 1ST FLOOR. PROVIDE FIRE DAMPER AT FLOOR PENETRATION WITH DUCT ACCESS DOOR AND WALL ACCESS PANEL AT 12" A.F.F.
- ⑥ EXHAUST DUCT UP IN CHASE WALL FROM 1ST FLOOR. PROVIDE FIRE DAMPER AT FLOOR PENETRATION WITH DUCT ACCESS DOOR AND WALL ACCESS PANEL AT 12" A.F.F.
- ⑦ REFRIGERANT PIPING AND CONDENSATE DRAIN DOWN IN WALL TO 1ST FLOOR.
- ⑧ OUTSIDE AIR DUCT FROM 2ND FLOOR.
- ⑨ REFRIGERANT AND CONDENSATE PIPING FROM 2ND FLOOR.
- ⑩ SPILL 3/4" CD INTO 2" HUB DRAIN WITH FUNNEL AND INTEGRAL BACKFLOW PREVENTER. EXTEND BELOW FLOOR SLAB TO CONDENSATE DRYWELL.
- ⑪ EXHAUST DUCT UP TO 2ND FLOOR.

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REMARKS

DATE

REV.

**PHASE - 2**  
**MANATEE FLEET SERVICES**  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by:  
Al Meronek

Date  
11-19-08

Scale

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Drawing Number

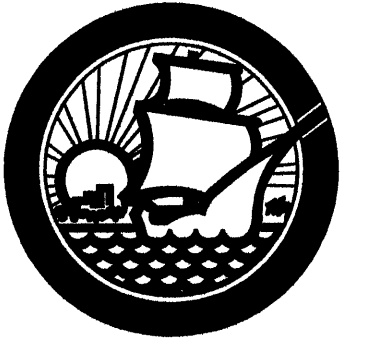
**M-2**



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Date	11/19/2008
Drawn	JWY
Designated	JWY
Reviewed	
Job no.	08067





REMARKS

DATE

REV.

PHASE - 2  
MANATEE FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by  
Al Meronek

Date 11-19-08

Scale

Set

Drawing Number

M-3

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE			
AIR HANDLER NO.		AHU-2	AHU-3
AREA SERVED		1ST FLOOR	2ND FLOOR
ARRANGEMENT		VERTICAL	HORIZONTAL
NOMINAL TONNAGE	TONS	5	5
AIRFLOW	CFM	1950	1950
OUTSIDE AIR	CFM	600	250
EXT. STATIC PRESSURE	IN. H <sub>2</sub> O	0.50	0.50
TOTAL CAPACITY	MBH	63.8	63.8
SENSIBLE CAPACITY	MBH	48.9	48.9
ENT. AIR TEMP.	DB/WB	76.0/63.9	76.0/63.9
LVG. AIR TEMP.	DB/WB	52.0/52.0	52.0/52.0
HEAT CAPACITY	KW/STEPS	8/1	8/1
HEAT CAPACITY (HEAT PUMP)	MBH	N/A	N/A
FAN MOTOR	HP	1	1
FAN MOTOR	FLA	3.9	3.9
VOLTAGE	V/PH/HZ	240/1/60	240/1/60
MCA	AMPS	47.0	47.0
MOCP	AMPS	50	50
MANUFACTURER		LENNOX	LENNOX
MODEL NO.		CBX32MV-060-230	CBX32MV-060-230
NOTES		12,3,4	12,3,4
NOTES: 1. FURNISH WITH SINGLE POINT POWER CONNECTION. 2. FURNISH WITH VARIABLE SPEED MOTOR. 3. FURNISH WITH CHECK AND EXPANSION VALVE. 4. ELECTRIC HEAT KW INPUT PER SCHEDULED VOLTAGE. 5. HEAT PUMP DESIGN CONDITIONS SUMMER: OUTDOORS 92 DB, 79 WB INDOORS 75 DB, 50 %RH WINTER: OUTDOORS 39 DB INDOORS 70 DB			

SPLIT SYSTEM CONDENSING SCHEDULE			
CONDENSING UNIT NO.		CU-2	CU-3
AMBIENT TEMP.	DB DEG. F.	95	95
COMPRESSORS	NO.	1	1
STEPS OF CAPACITY	NO.	1	1
CIRCUITS	NO.	1	1
ELECTRIC	V/PH/HZ	240/1/60	240/1/60
COMPRESSOR AMPACITY	RLA	26.2	26.2
FAN MOTOR AMPACITY	FLA	1.7	1.7
MCA	AMPS	34.5	34.5
MOCP	AMPS	60	60
EFFICIENCY	SEER	13.5	13.5
EFFICIENCY	HSPF	N/A	N/A
REFRIGERANT	TYPE	R-410A	R-410A
MANUFACTURER		LENNOX	LENNOX
MODEL NO.		13ACX-060-230	13ACX-060-230
NOTES		1	1
NOTES: 1. FURNISH WITH LOW AMBIENT OPTION. 2. HEAT PUMP			

ENERGY RECOVERY UNIT SCHEDULE			
ENERGY RECOVERY UNIT NO.		ERV-1	
SERVICE		AHU-1	
SUPPLY AIR			
FAN CFM	CFM	600	
E.S.P.	IN. H <sub>2</sub> O	0.50	
MOTOR	BHP/HP	0.13/0.33	
FAN	RPM	1048	
EXHAUST AIR			
FAN CFM	CFM	500	
E.S.P.	IN. H <sub>2</sub> O	0.5	
MOTOR	BHP/HP	0.08/0.33	
FAN	RPM	935	
SUMMER PERFORMANCE			
OUTDOOR AIR	DB/WB	92/79	
RETURN AIR	DB/WB	75.0/62.6	
SUPPLY AIR	DB/WB/GR	80.1/68.3/84	
WINTER PERFORMANCE			
OUTDOOR AIR	DB/WB/GR	39/32.7	
RETURN AIR	DB/WB	72.0/60.1	
SUPPLY AIR	DB/WB/GR	62.1/53.3/46	
UNIT VOLTAGE			
ELEC. INPUT	V/PH/HZ	115/1/60	
MANUFACTURER	MCA/MOCP	19.3/25	
MODEL NO.		GREENHECK ERV-25IS-20-A	
NOTES		1, 2	
NOTES: 1. PROVIDE WITH SINGLE POINT POWER CONNECTION. 3. PROVIDE SUPPLY AND RETURN AIR FILTERS (2"-30%).			

AIR DEVICE SCHEDULE						
MARK	TYPE	MATERIAL	FINISH	MANUF.	MODEL NO.	NOTES
AD-1	SUPPLY AIR REGISTER, WALL MOUNTED, DOUBLE DEFLECTION LOUVERED FACE	ALUM.	WHITE	PRICE	620D	1, 2, 3, 4, 5
AD-2	SUPPLY AIR DIFFUSER, 24X24 LAY-IN T-BAR MOUNTED, LOUVERED FACE	ALUM.	WHITE	PRICE	AMD	1, 2, 3, 4, 5
AD-3	RETURN AIR GRILLE, SURFACE MOUNTED, LOUVERED FACE	ALUM.	WHITE	PRICE	630D	1, 2, 3, 5
NOTES: 1. NOISE CRITERIA NOT TO EXCEED 25. 2. CONTRACTOR TO COORDINATE BORDER WITH CEILING SYSTEM 3. REFER TO FLOOR PLAN FOR CFM. 4. ALL AIR DEVICES ARE 4 WAY THROW, UNLESS NOTED OTHERWISE ON DRAWING. 5. ALL AIR DEVICES TO BE SUPPLIED WITH O.B.D.						

FAN SCHEDULE		
UNIT NUMBER		F-1
AREA SERVED		TOILETS
FAN TYPE		CEILING
SERVICE		EXHAUST
AIR QUANTITY	CFM	50
EXT. STATIC PRESS.	IN. H <sub>2</sub> O	0.375
FAN SPEED	RPM	675
DRIVE		DIRECT
SONES		3.0
MOTOR		45 WATTS
ELECTRICAL	V/PH/HZ	115/1/60
MANUFACTURER		GREENHECK
MODEL		SP-B70
NOTES		12,3,4,5
NOTES: 1. PROVIDE FAN WITH PLUG AND CORD MEANS OF DISCONNECT. 2. PROVIDE MOTOR WITH THERMAL OVERLOADS. 3. PROVIDE REMOVABLE WHITE POLYMER CEILING GRILLE. 4. PROVIDE TIME DELAY RELAY, ADJUST FOR 60 SECONDS RUN TIME. 5. INTERLOCK FAN WITH LIGHT SWITCH. 6. FURNISH WITH ROOF CURB.		

IAQ VENTILATION SCHEDULE ASHRAE STANDARD 62.1-2007									
SPACE DESCRIPTION	AREA (SF)	PEOPLE (#)	CFM PER SF	CFM PER PERSON	DIVERSITY INTERMITTANT OCCUPANCY	CFM REQUIRED	CFM SPECIFIED	EXHAUST	CFM FOR BLDG. POS. PRESS.
PARTS DEPARTMENT	1492	10	0.06	5	NO	139	500	0	500
LOBBY	350	0	0.06	0	NO	21	100	0	100
TOILETS	424	0	0	0	NO	0	0	500	-500
1ST FLOOR TOTALS	-	-	-	-	-	160	600	500	100
OFFICE	2150	10	0.06	5	NO	179	200	0	200
CORRIDOR	378	0	0.06	0	NO	23	50	0	50
TOILETS	94	0	0	0	NO	0	0	100	-100
2ND FLOOR TOTALS	-	-	-	-	-	202	250	100	150



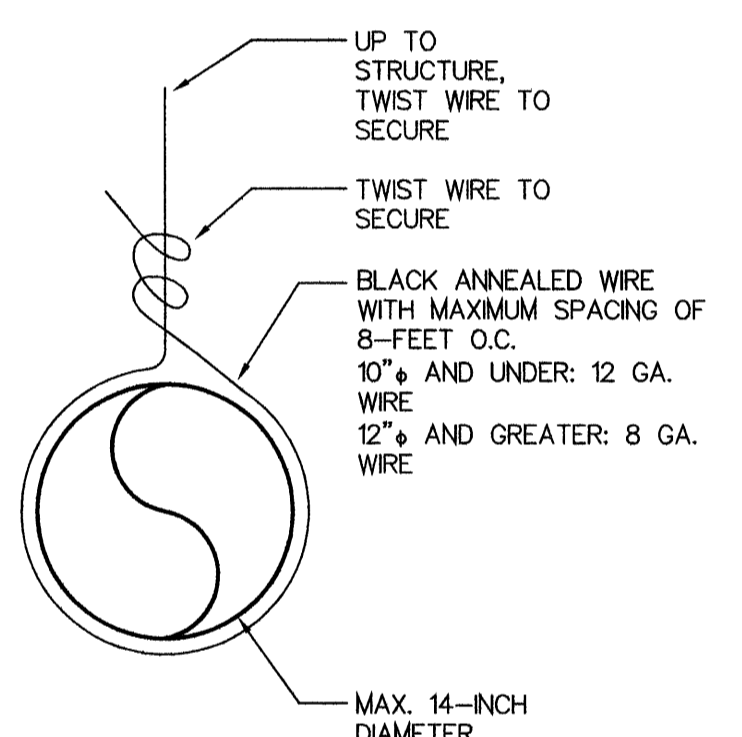
**RECTANGULAR DUCT HANGERS  
MINIMUM SIZE**

MAXIMUM HALF OF DUCT PERIMETER	Pair at 10 ft. Spacing		Pair at 8 ft. Spacing		Pair at 5 ft. Spacing		Pair at 4 ft. Spacing	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 = 30"	1" x 22 ga.	10 ga. (100')	1" x 22 ga.	10 ga. (100')	1" x 22 ga.	10 ga. (100')	1" x 22 ga.	10 ga. (100')
P/2 = 72"	1" x 18 ga.	3/8"	1" x 20 ga.	1/4"	1" x 22 ga.	1/4"	1" x 22 ga.	1/4"
P/2 = 96"	1" x 16 ga.	3/8"	1" x 18 ga.	3/8"	1" x 20 ga.	3/8"	1" x 22 ga.	1/4"
P/2 = 120"	1 1/2" x 16 ga.	1/2"	1" x 16 ga.	3/8"	1" x 18 ga.	3/8"	1" x 20 ga.	1/4"
P/2 = 188"	1 1/2" x 18 ga.	1/2"	1" x 18 ga.	1/2"	1" x 16 ga.	3/8"	1" x 18 ga.	3/8"
P/2 = 192"	1/2"	1" x 16 ga.	1/2"	1" x 16 ga.	3/8"	1" x 18 ga.	3/8"	3/8"
P/2 = 193" up	SPECIAL ANALYSIS REQUIRED							

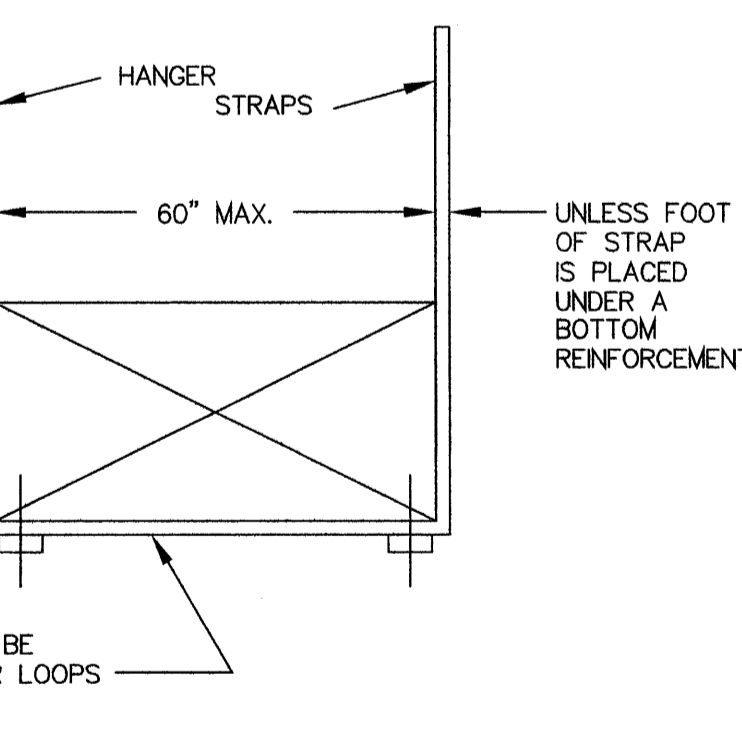
  

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (Dia.)
1" x 18, 20, 22 ga.-two #10 or one 1/4" bolt	1" x 22 ga.-280 lbs.	0.106"-800 lbs.
1" x 18 ga.-two 1/4" dia.	1" x 20 ga.-320 lbs.	0.135"-120 lbs.
1" x 18 ga.-two 1/4" dia.	1" x 18 ga.-420 lbs.	0.162"-160 lbs.
Place fasteners in series, not side by side.	1" x 16 ga.-700 lbs.	1/4"-270 lbs.
	1 1/2" x 16 ga.-1000 lbs.	1/4"-880 lbs.
		1/4"-1250 lbs.
		1/4"-2000 lbs.
		1/4"-3500 lbs.

NOTES:  
1. Dimensions other than gauge are in inches.  
2. Tables allow for duct weight, 1 lb/sf insulation weight and normal reinforcement and trapeze weight, but no external loads.  
3. For custom design of hangers, designers may consult SMACNA's rectangular industrial duct standards, the ASH Code Formed Steel Design Manual and the ASCE Steel Construction Manual.  
4. Straps are galvanized steel, other materials are uncoated steel.  
5. Allowable loads for P/2 assume test ducts are 16 ga. maximum, except that when maximum duct dimension (d) is over 60" then P/2 maximum is 125 w.  
6. For upper attachments see Fig. 4-2.  
7. For lower attachments see Fig. 4-4.  
8. For trapeze sizes see Table 4-3 and Fig. 4-5.  
9. 12, 10 or 8 ga. wire is steel of black annealed, bright basic or galvanized type.

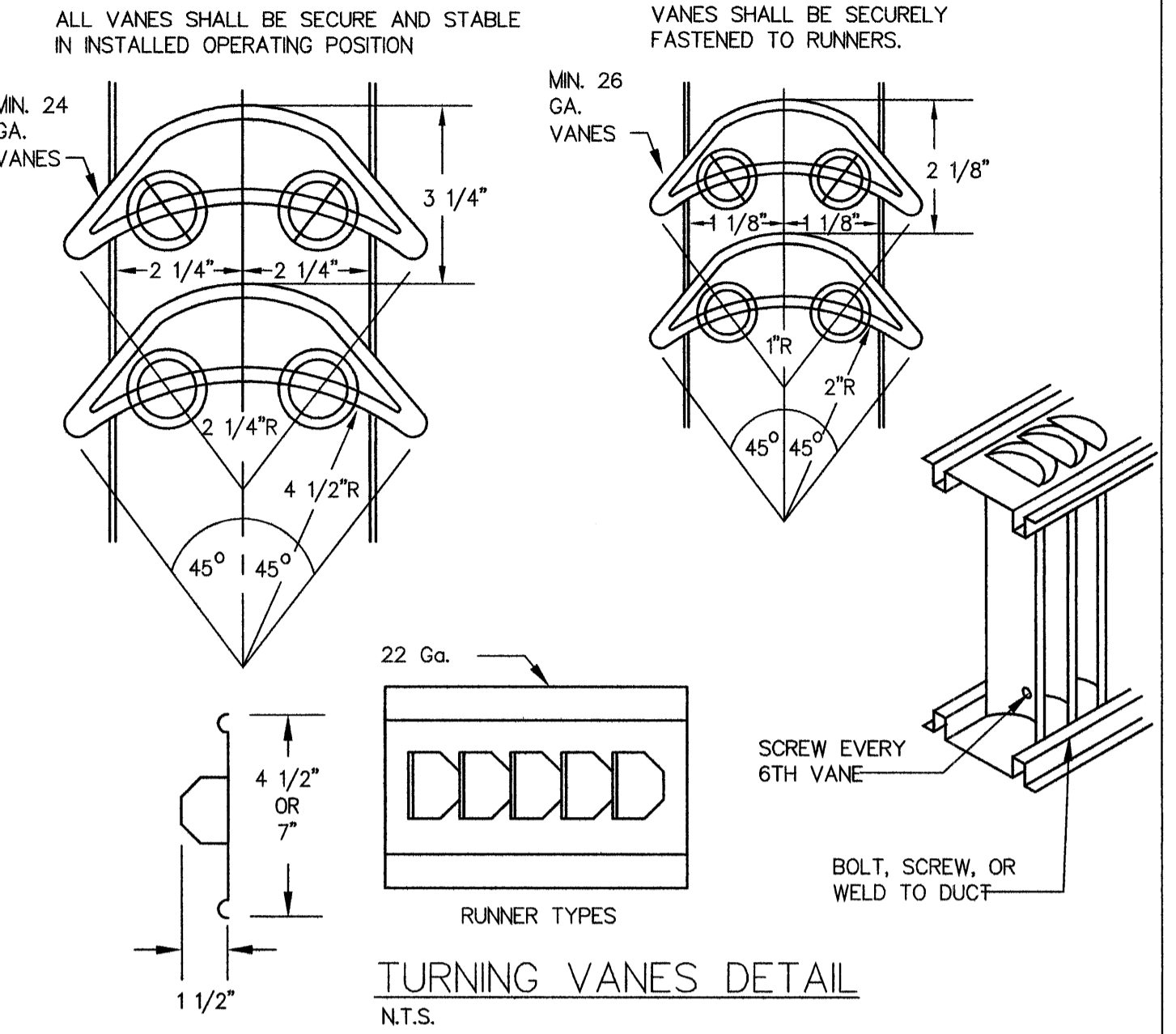


**ROUND METAL DUCT**

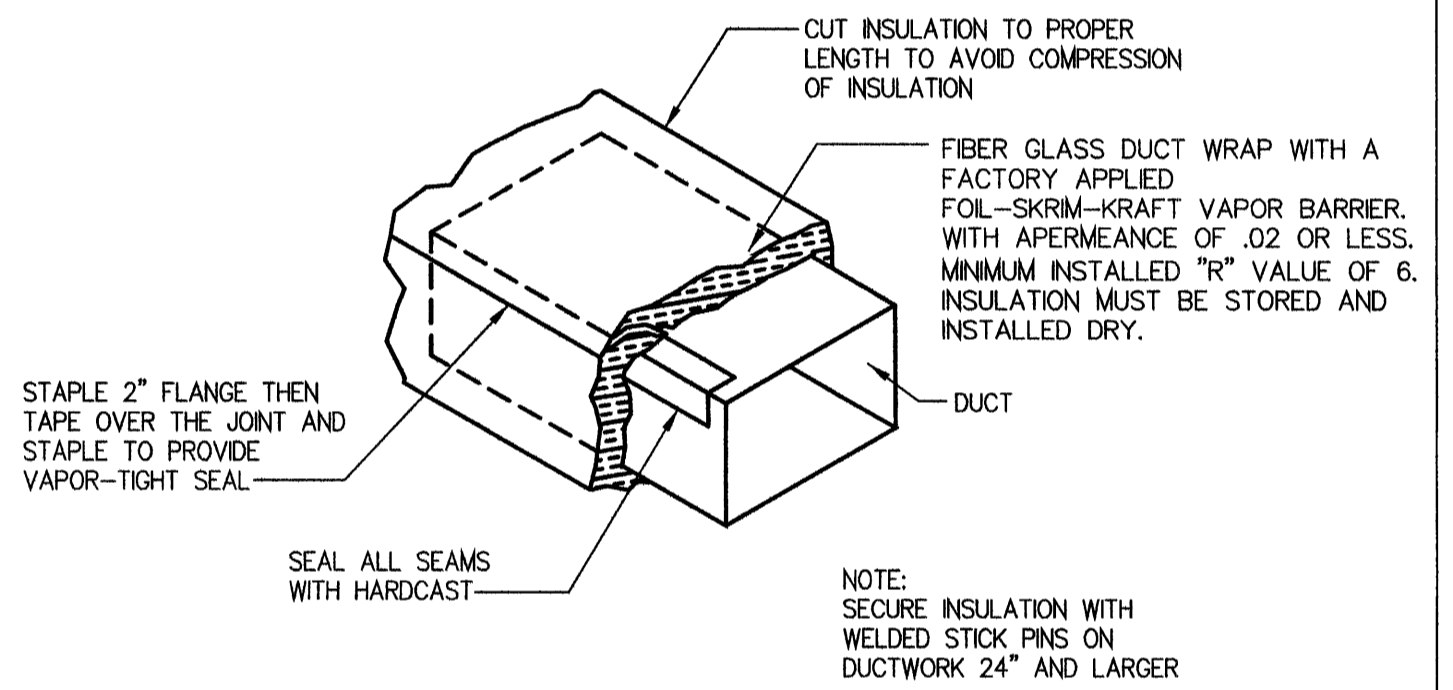


**SINGLE RECTANGULAR METAL DUCT**

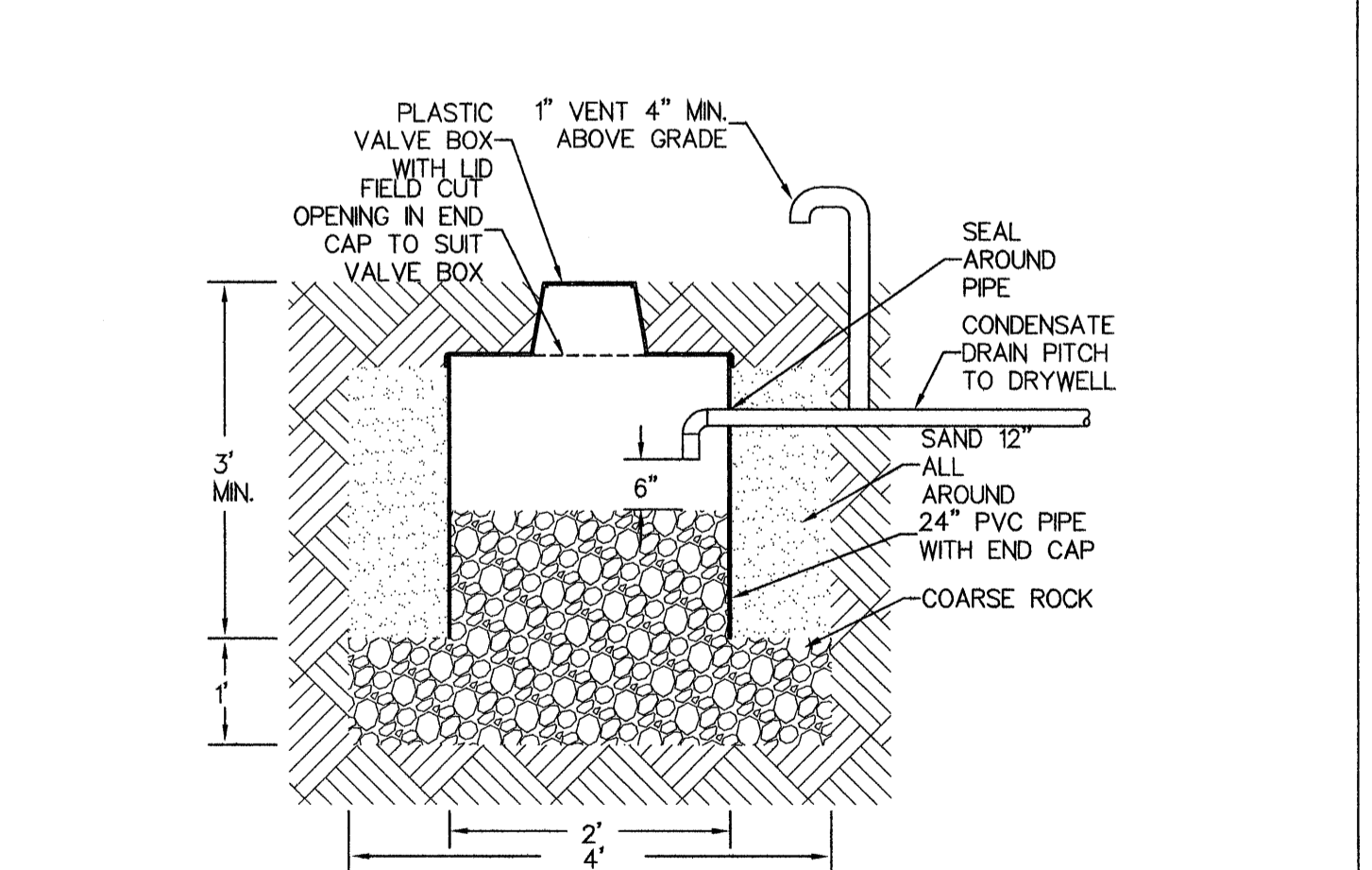
**DUCTWORK SUPPORT DETAILS**  
N.T.S.



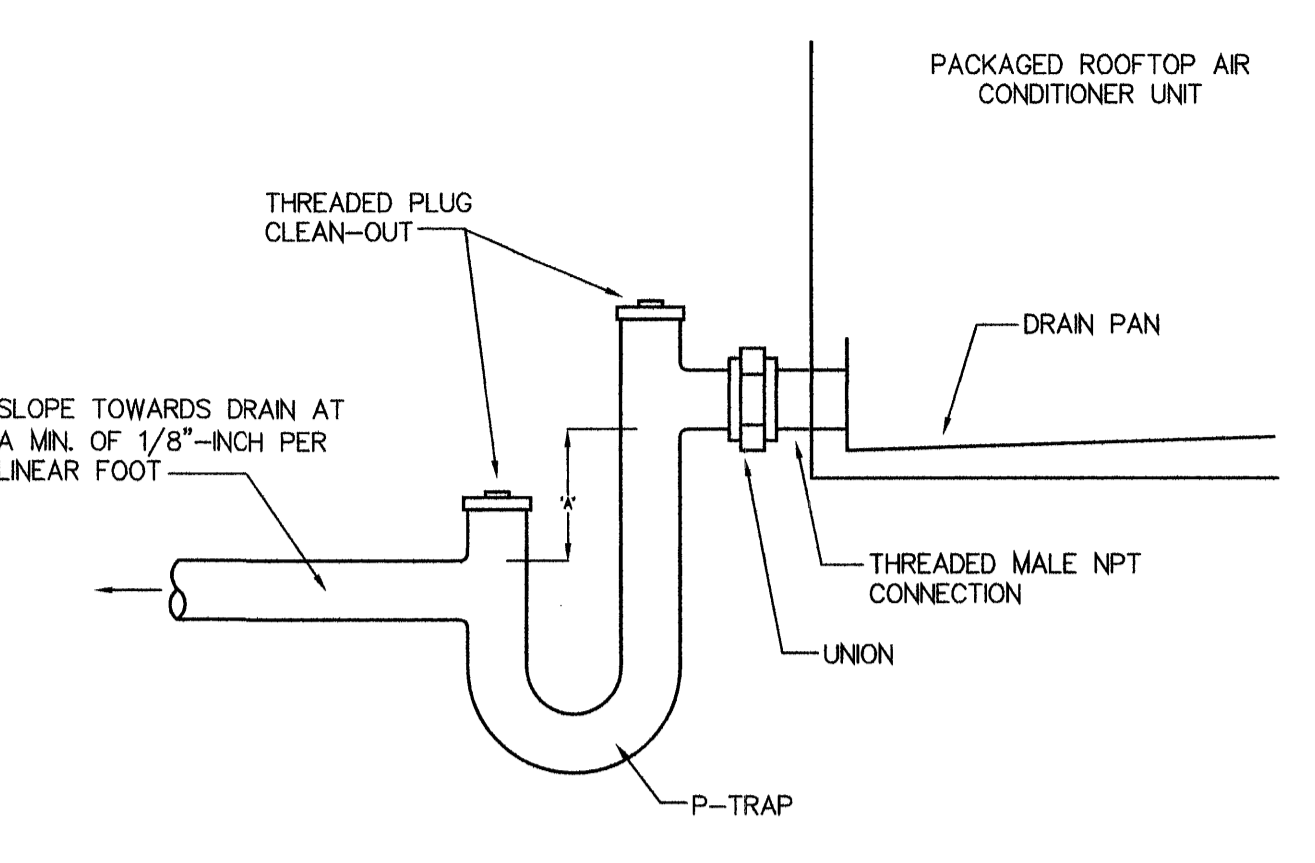
**TURNING VANES DETAIL**  
N.T.S.



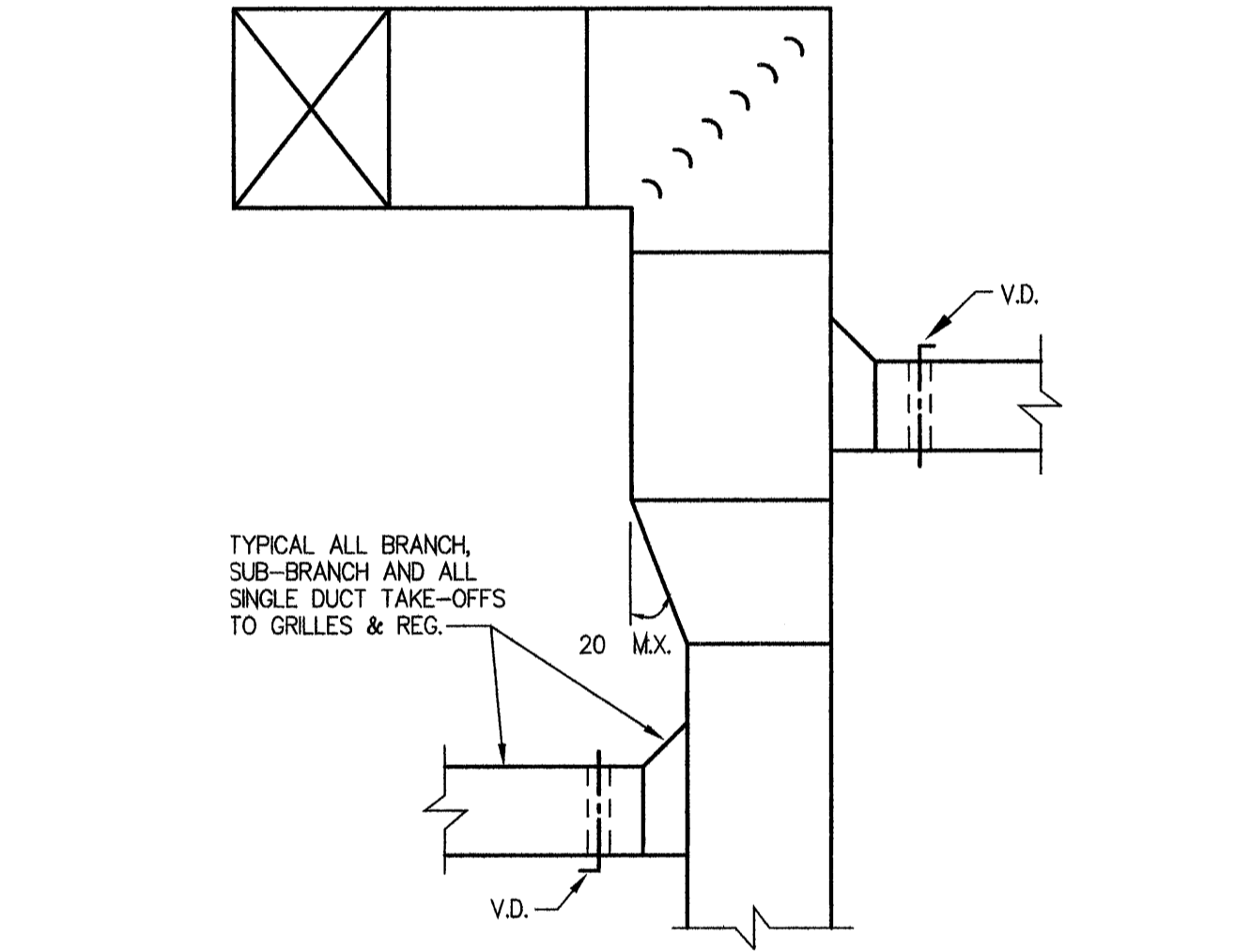
**TYPICAL DUCT WRAPPING DETAIL**  
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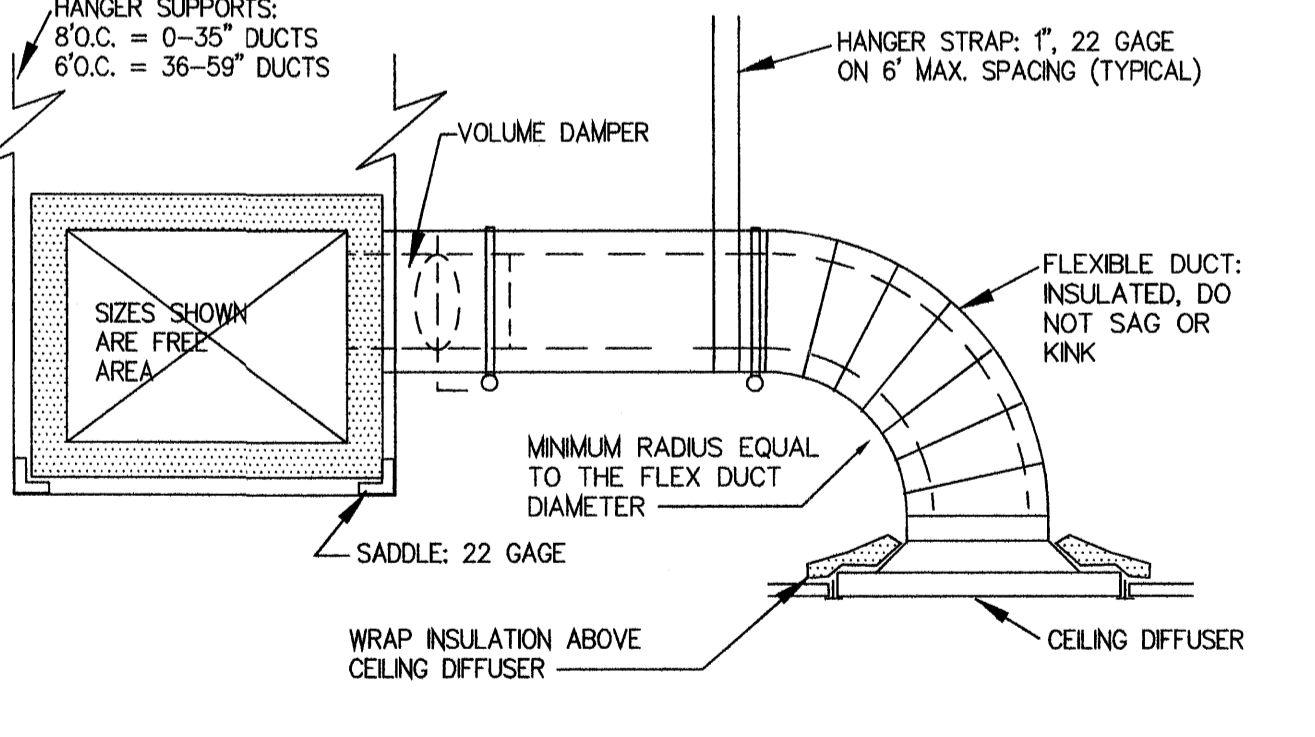
**CONDENSATE DRYWELL DETAIL**  
N.T.S.



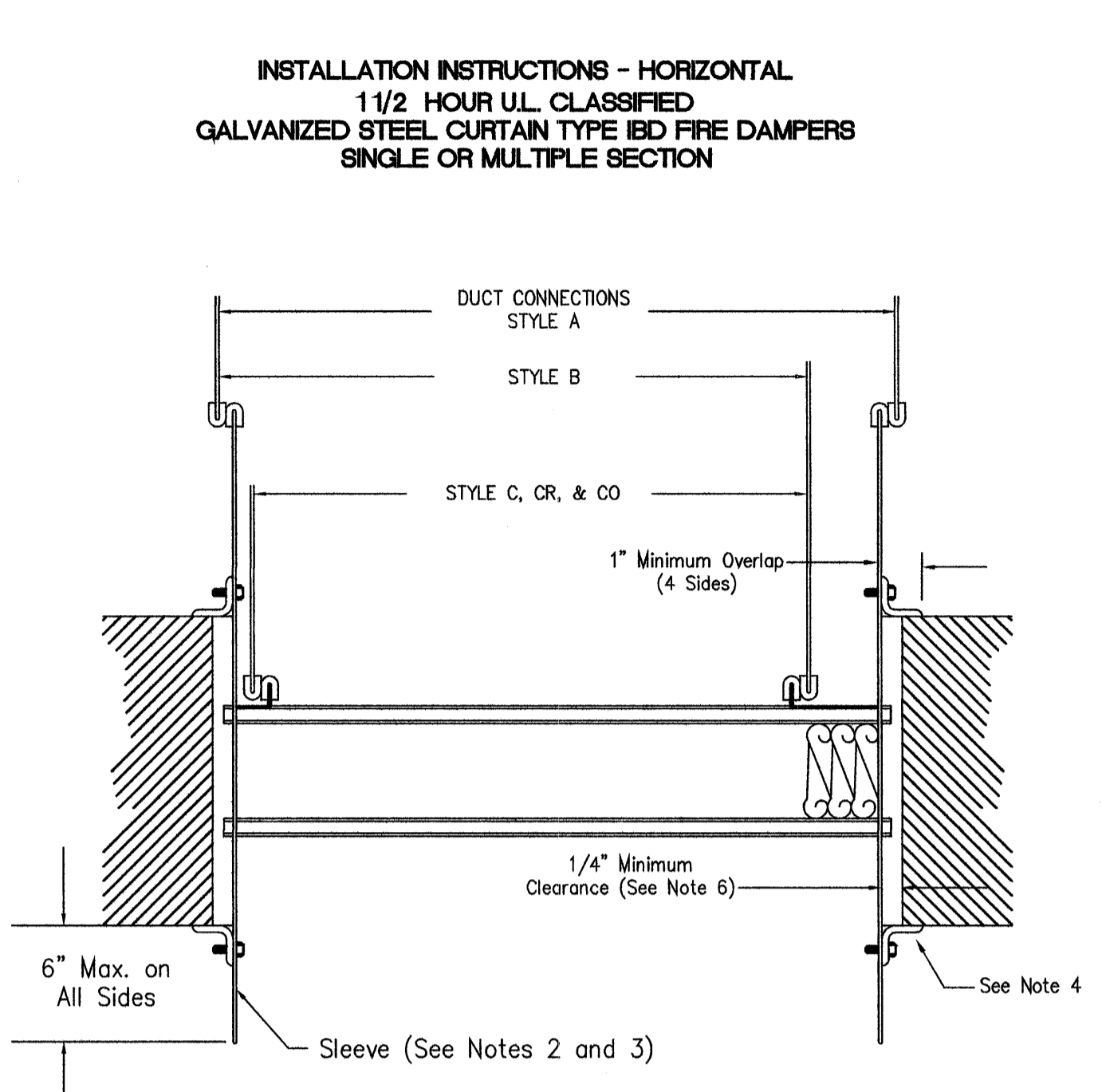
**CONDENSATE DRAIN TRAP DETAIL**  
N.T.S.



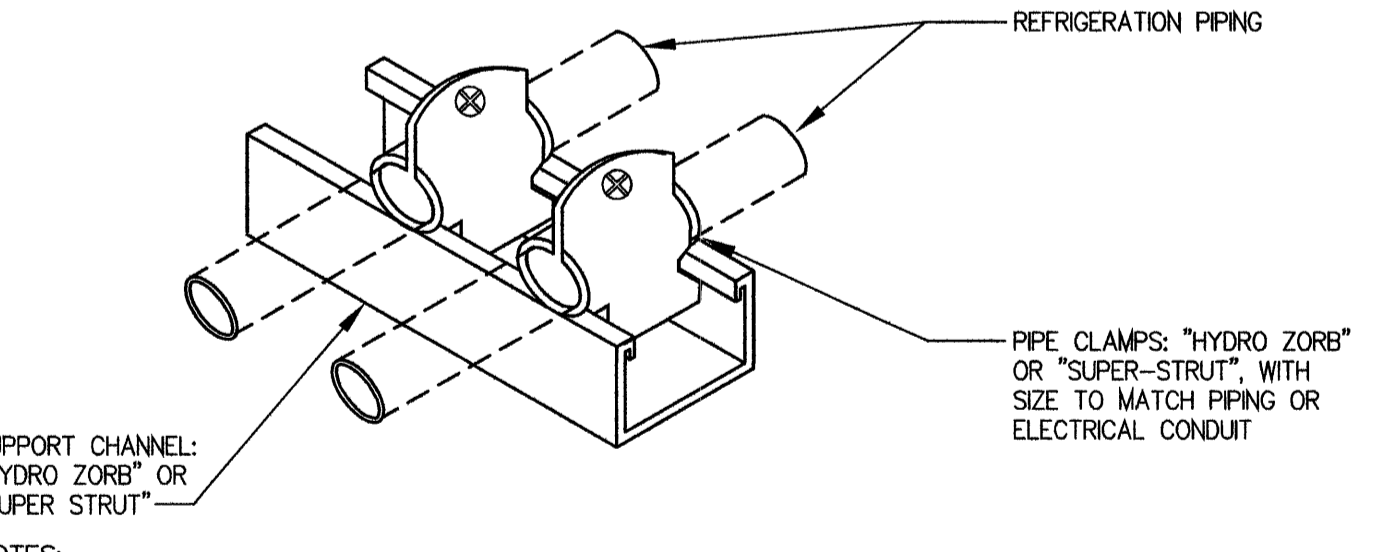
**DUCT - TYPICAL**  
N.T.S.



**DUCT RUNOUT TO DIFFUSER DETAIL**  
N.T.S.



**FIRE DAMPER INSTALLATION DETAIL**  
N.T.S.



**REFRIGERANT PIPING DETAIL**  
N.T.S.

**MANATEE COUNTY GOVERNMENT**



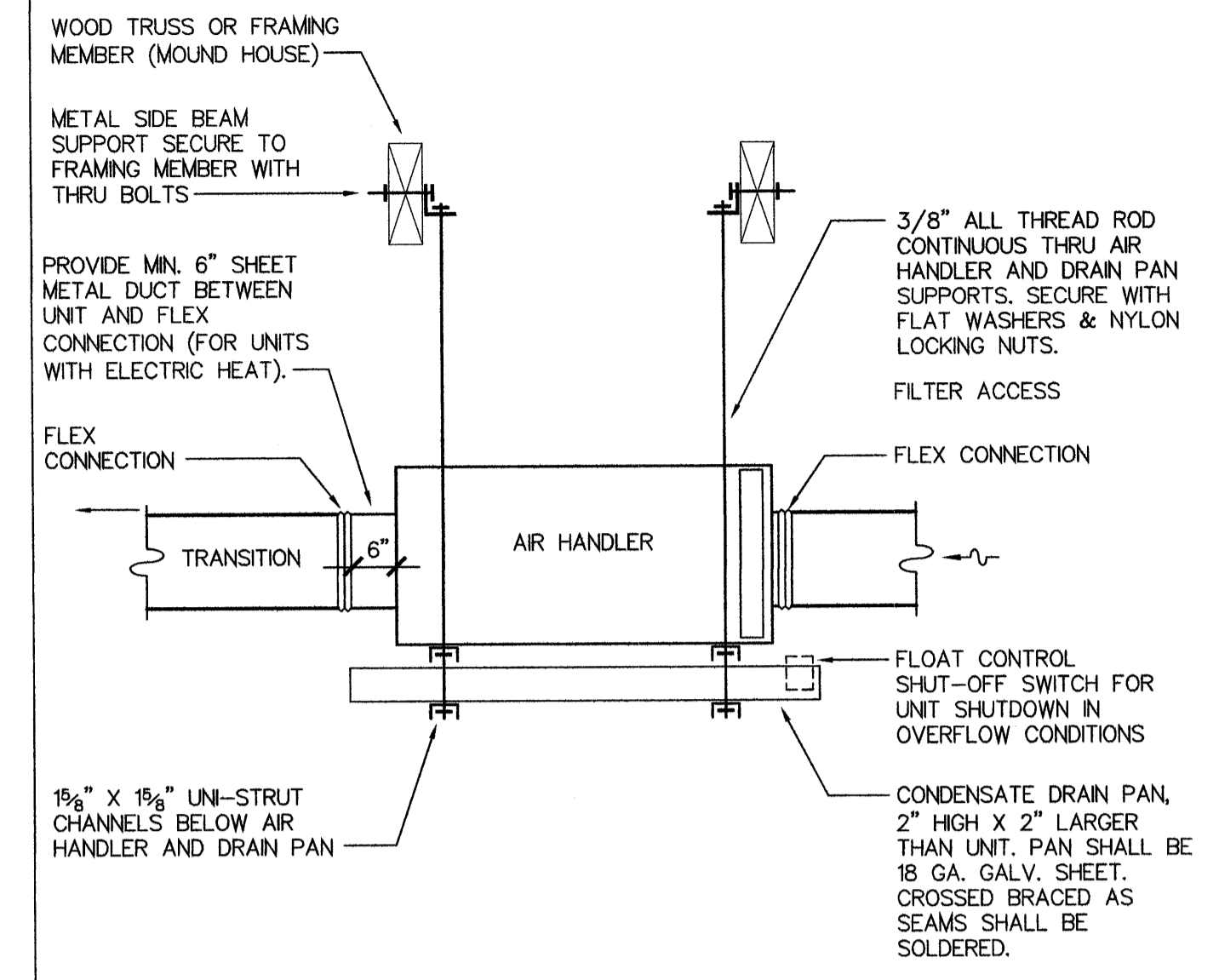
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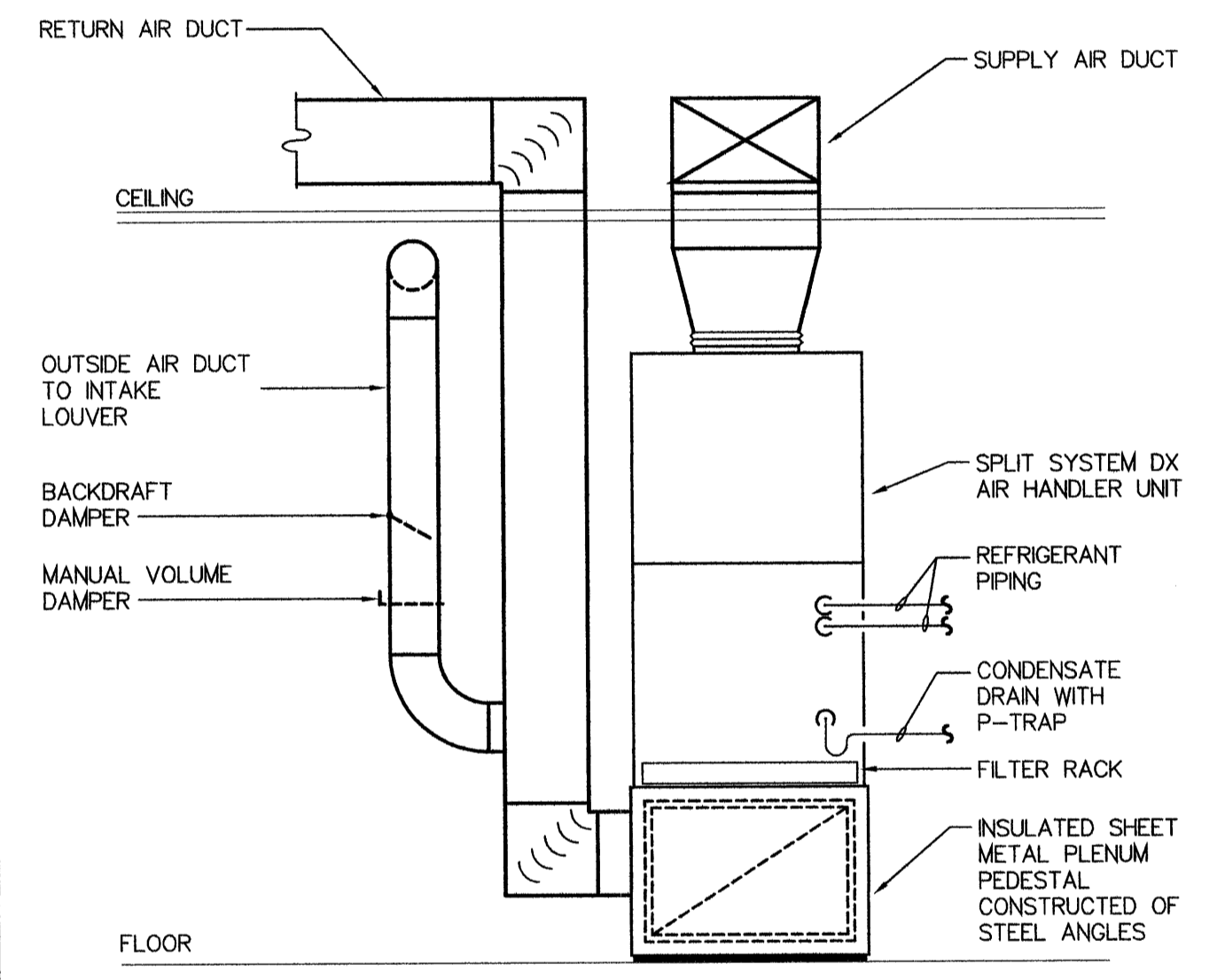
**PHASE - 2**  
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1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number	
Drawn by:	Yehuda Inbar AIA Inbar architect AIA
Checked by:	Al Meronek
Date	11-19-08
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SUSPENDED AIR HANDLER INSTALLATION DETAIL  
N.T.S.



VERTICAL AIR HANDLING UNIT INSTALLATION DETAIL  
N.T.S.

REV.	DATE	REMARKS

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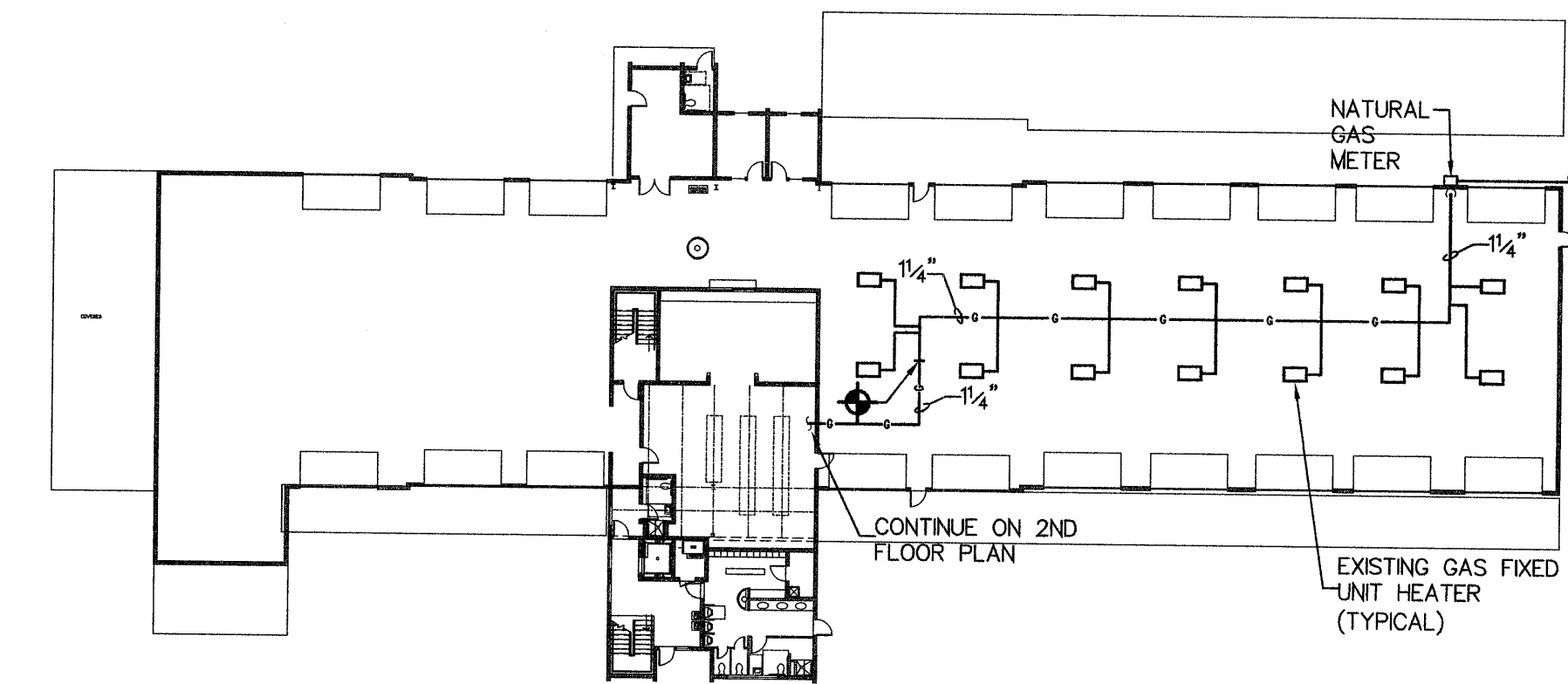
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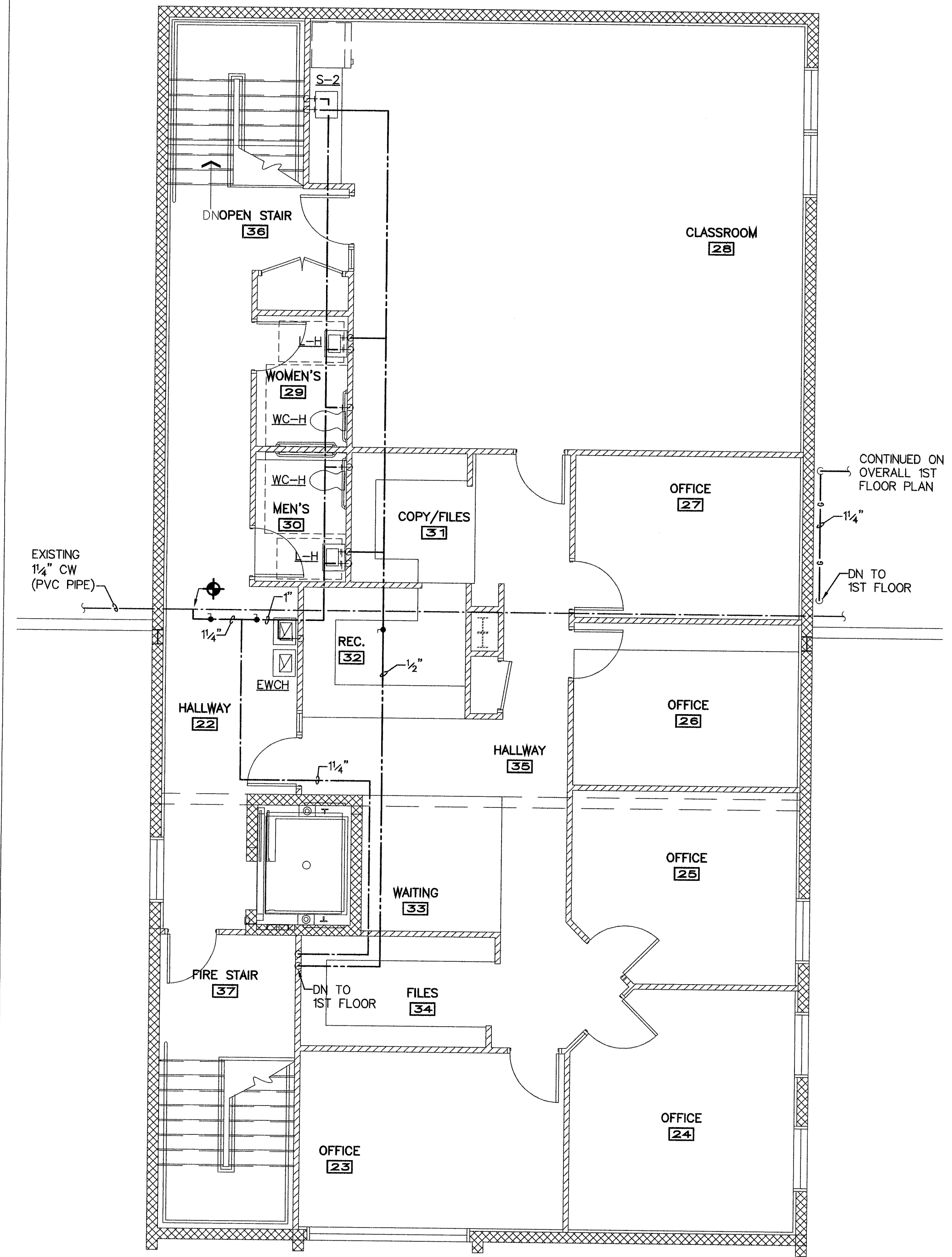
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	1628 First Avenue North	Drawn	JWY
	St. Petersburg, Florida 33713	Designed	JWY
	Phone: (727) 423-2335	Revised	
	Fax: (727) 423-3361	Job no.	08067
Certificate of Authorization #3173			



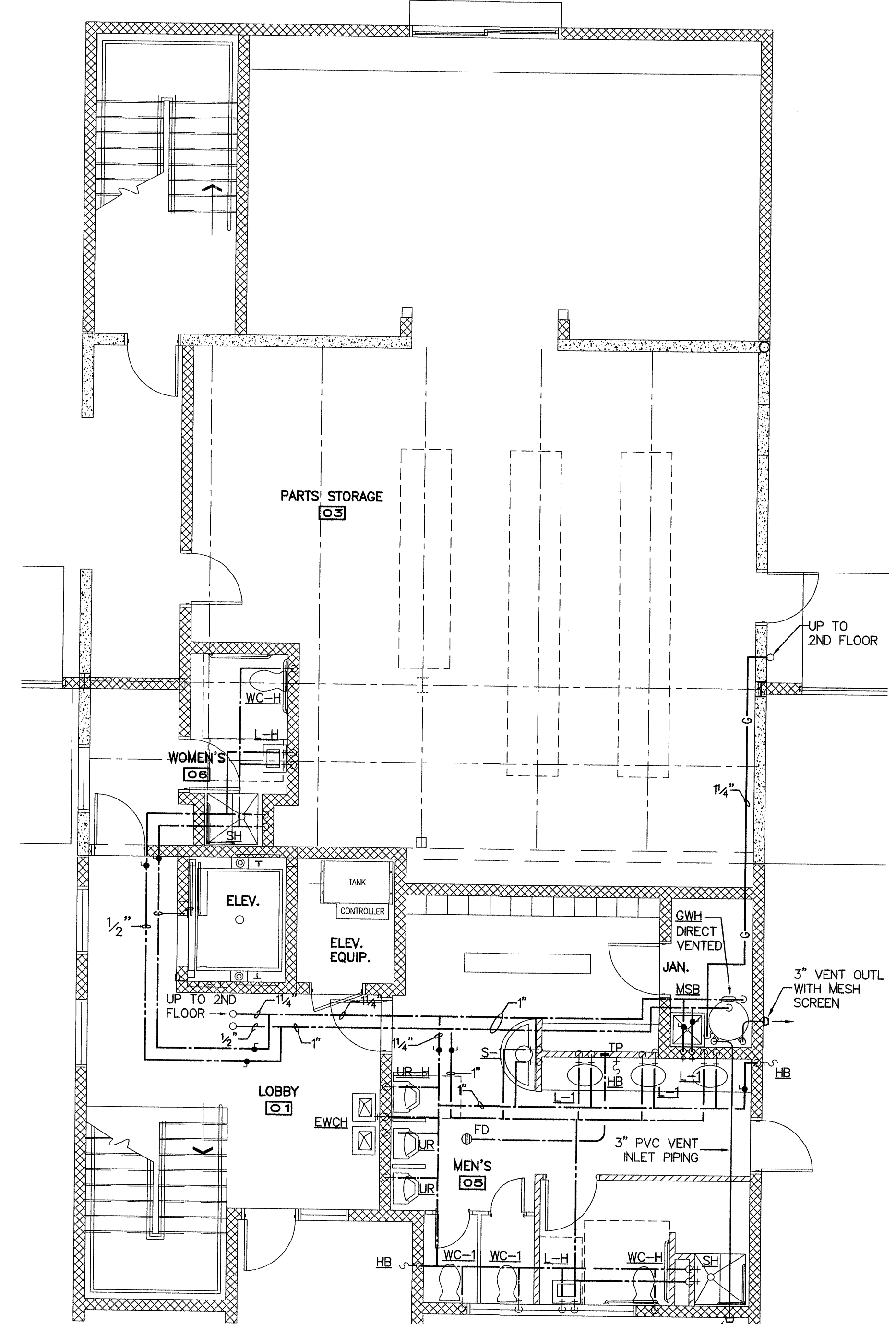




OVERALL FIRST FLOOR PLAN  
 1/32" = 1'-0"



SECOND FLOOR PLUMBING PLAN - WATER  
 3/16" = 1'-0"



FIRST FLOOR PLUMBING PLAN - WATER  
 3/16" = 1'-0"

REV.	DATE	REMARKS

PHASE - 2  
 MANATEE FLEET SERVICES  
 1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yehuda Inbar AIA  
 Inbar architect AIA

Checked by:  
 Al Meronek

Date 11-19-08

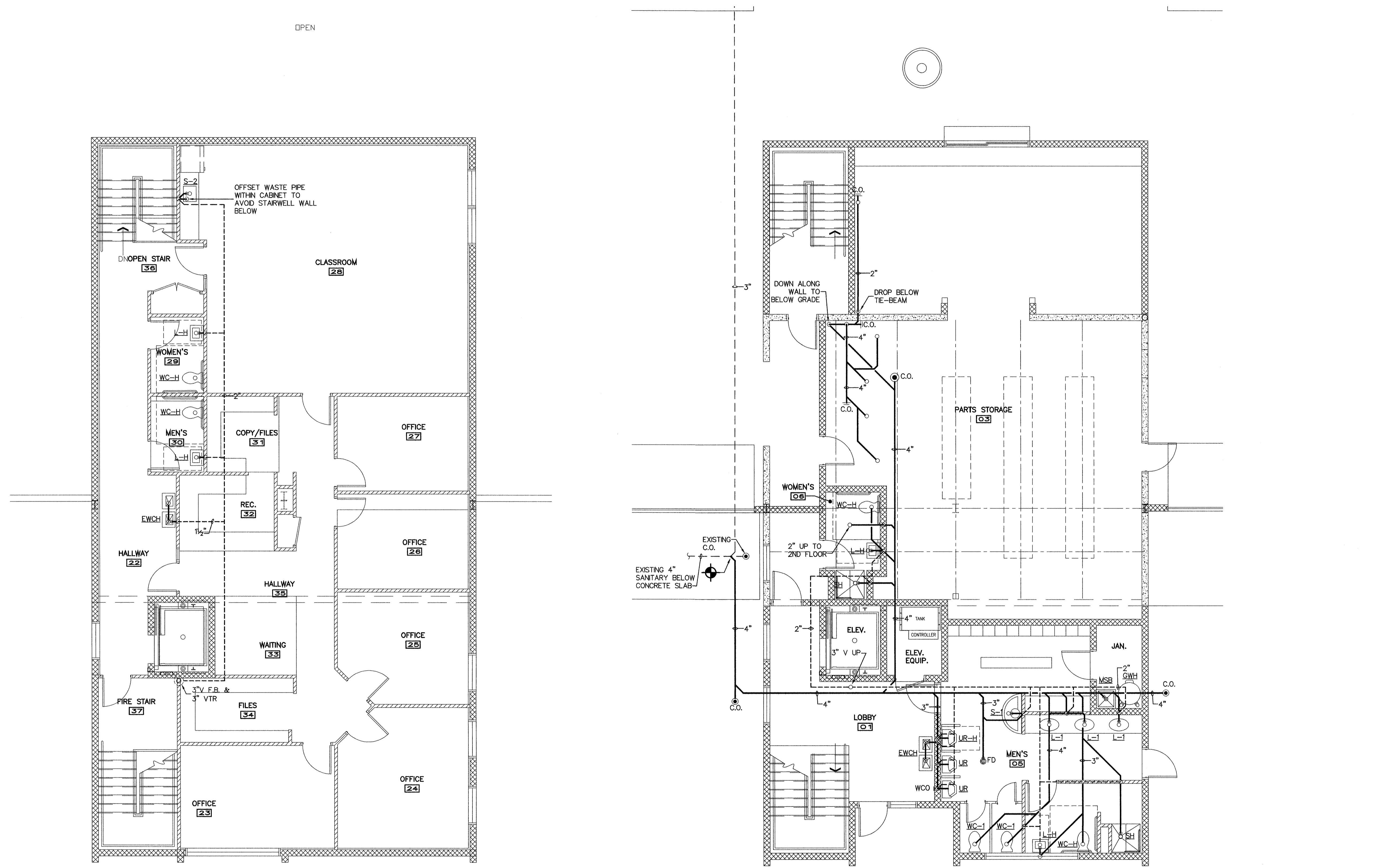
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Set

Drawing Number

P-2

<b>G</b>	GRINER ENGINEERING, INC.	Date	11/19/2008
	1628 First Avenue North	Drawn	JWY
	St. Petersburg, Florida 33713	Designed	JWY
	Phone: (727)-822-2335	Revised	
	Fax: (727)-821-3361	Job no.	08067
Certificate of Authorization #3173			



**SECOND FLOOR PLUMBING PLAN - WASTE & VENT**  
 3/16" = 1'-0"

**FIRST FLOOR PLUMBING PLAN - WASTE & VENT**  
 3/16" = 1'-0"

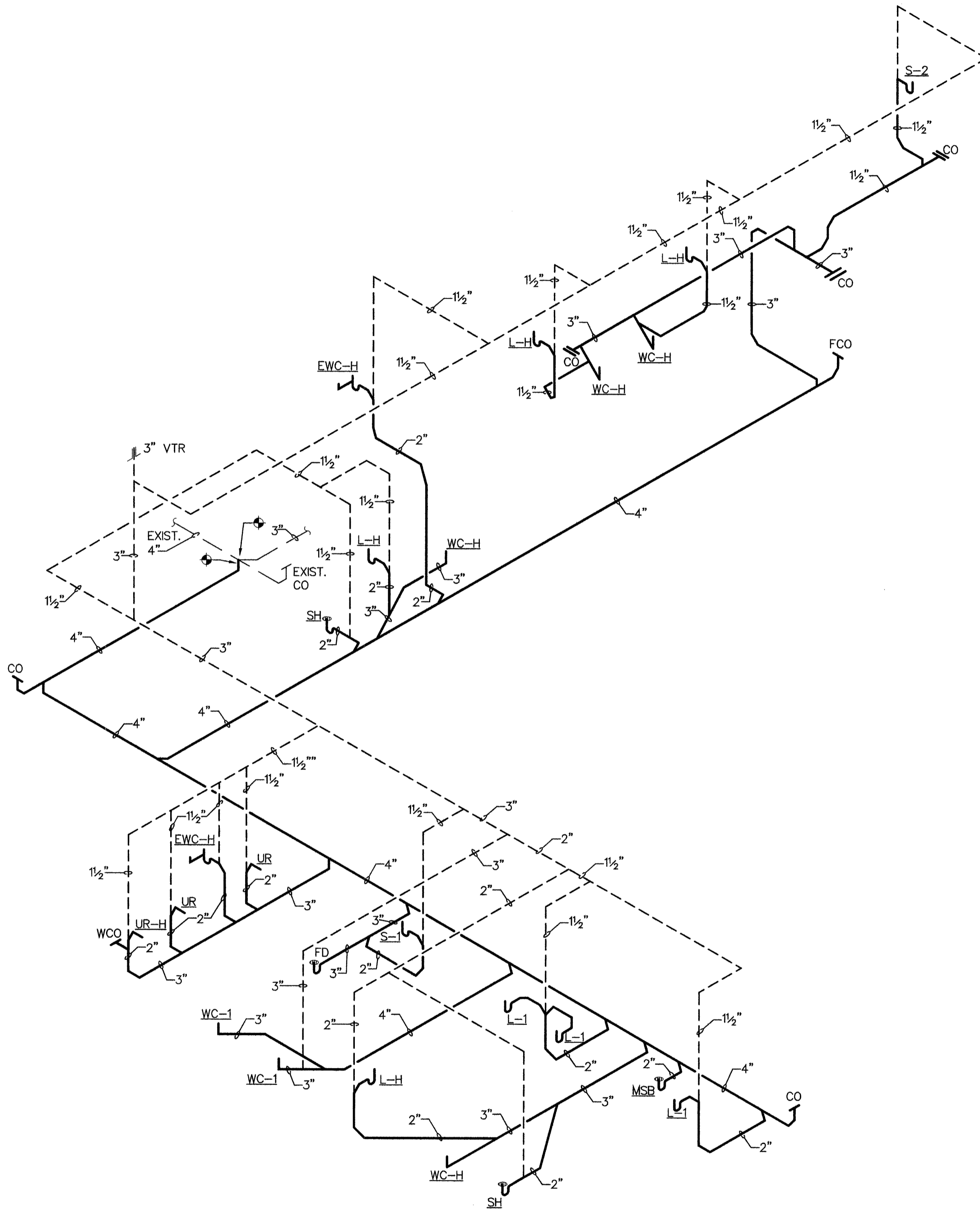
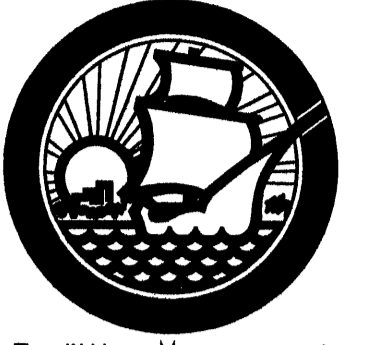
REMARKS  
 DATE  
 REV.

PHASE - 2  
 MANATEE  
 FLEET SERVICES  
 1200 26TH AVE. EAST, BRADENTON, FLORIDA

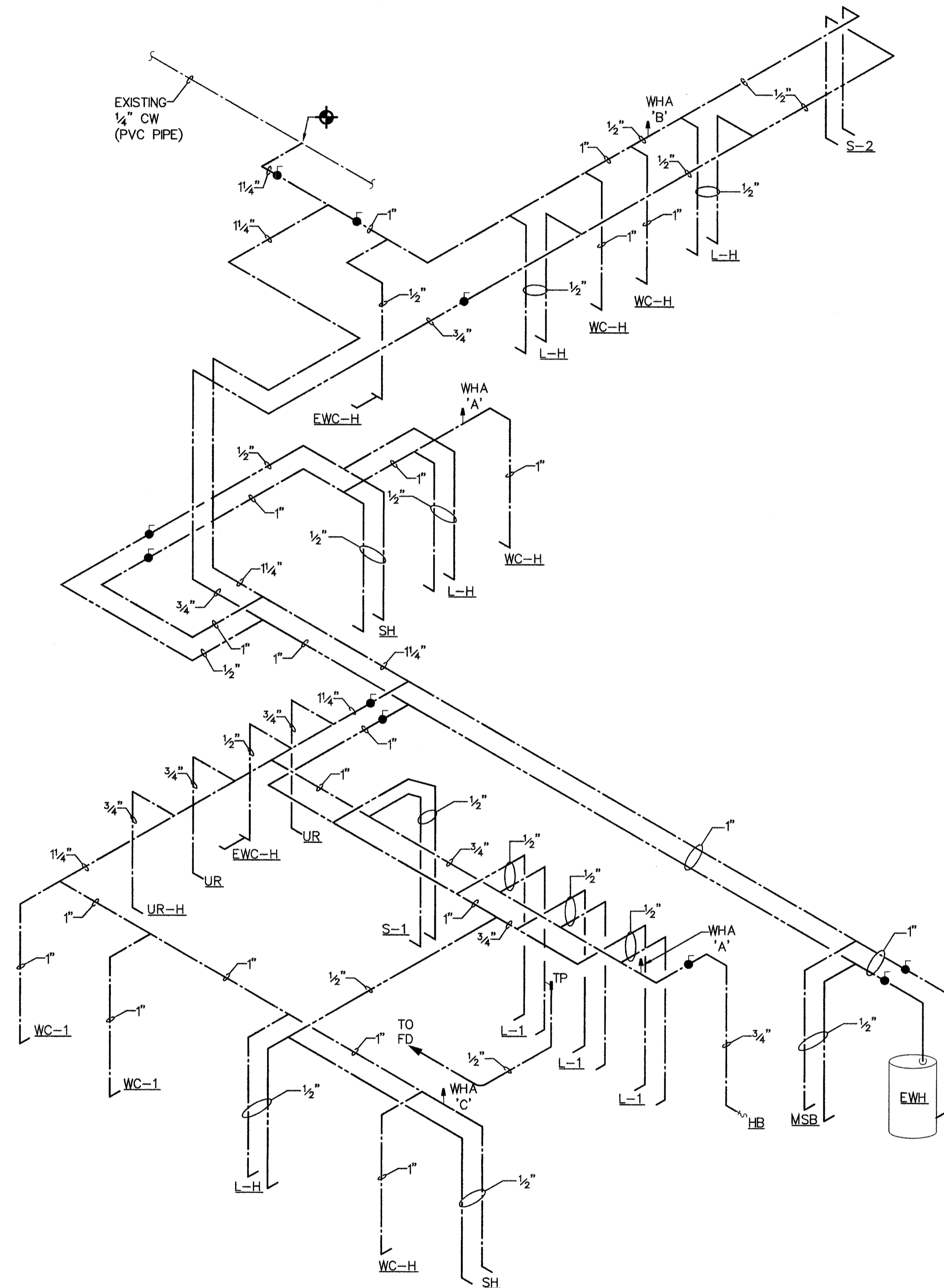
Project Number  
 Drawn by: Yehuda Inbar AIA  
 Inbar architect AIA  
 Checked by: Al Meronek  
 Date: 11-19-08

Scale  
 Set  
 Drawing Number

**P-3**



**SANITARY RISER**  
 SCALE : NOT TO SCALE



**WATER RISER**  
 SCALE : NOT TO SCALE

REMARKS

DATE

REV.

PHASE - 2  
 MANATEE  
 FLEET SERVICES  
 1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yehuda Inbar AIA  
 Inbar architect AIA

Checked by:  
 Al Meronek

Date  
 11-19-08

Scale

Set

Drawing Number

**P-4**

<b>G</b>	GRINER ENGINEERING, INC.	Date	11/19/2008
	1628 First Avenue North	Drawn	JWY
	St. Petersburg, Florida 33713	Designed	JWY
	Phone: (727)-822-2335	Revised	
	Fax: (727)-821-3361	Job no.	08067



**PLUMBING SPECIALTIES**

MARK	DESCRIPTION/LOCATION	MANUF.	CAT. NUMBER	GENERAL NOTES	NOTES:
WCO	WALL CLEANOUT	ZURN	ZN-1446	ROUND ACCESS COVER	
SA	W. HAMMER ARRESTOR	ZURN	Z-1700 SHOKTROL	SIZE FOR 3/4" & 1" PIPE.	
YCO	YARD CLEANOUT	ZURN	Z-1474-Z	HEAVY DUTY, DURA COATED, SCORATED COVER.	
FD-1	FLOOR DRAIN	ZURN	ZN-415-ZN-P-E	7" TYPE N STRAINER, MEMBRANE FLASHING CLAMP, POLISHED NICKEL BRONZE TOP WITH FUNNEL.	NOTE 1
HB	HOSE BIBB	WOODFORD	24P-1/2 & 24P-3/4	POLISHED CHROME FINISH W/VACUUM BREAKER	

- NOTES:**  
 1. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION WHERE REQUIRED.  
 2. APPROVED EQUAL MANUFACTURER JOSAM, ANCON & SMITH

**WATER HEATER SCHEDULE**

	MAKE & MODEL	TYPE	STORAGE (GALLONS)	EFFICIENCY	RECOVERY GALLONS/HR	INPUT (BTU/H)	FLUE (INCHES)	ELECTRICAL							NOTES
								# OF ELEMENTS	KW EACH	KW TOTAL	V	PH	HZ		
GWH-1	A.O. SMITH BTH-120	TANK TYPE GAS FRED	60	94%	1710@80°F	125,000	3" PVC	---	---	---	120	1	60	1,2,3,4, & 5	

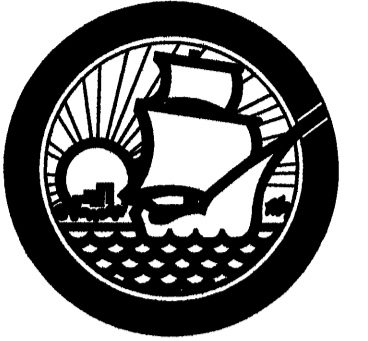
- NOTES:**  
 1. PROVIDE FACTORY INSTALLED HEAVY DUTY ELECTRICAL JUNCTION BOX, CONTROLS, WITH T-STATS SET ON 120° F.  
 2. INSTALL GWH IN ACCORDANCE TO SPC, SMC CODES, NEC, AND APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS.  
 3. CONTACT MANUFACTURERS REPRESENTATIVE FOR HEATERS ELECTRICAL DATA BEFORE FINAL ORDER IS MADE.  
 4. INSTALL GWH IN ACCORDANCE WITH BUILDING CODE - PLUMBING & MECHANICAL (WITH LATEST AMENDMENTS) CODES, ENERGY CODE, AND APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS.  
 5. PROVIDE BRASS DRAIN VALVE, & ALL REQUIRED OPTIONS TO COMPLETE THE INSTALLATION.

**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE	LOCATION (ROOMS #)	SOIL/WASTE	VENT	COLD WATER	HOT WATER	OTHER CONN.	MANUFACTURER/ MODEL #	DESCRIPTION
L-1	LAVATORY COUNTERTOP MOUNTED	TOILET ROOMS	1/2"	1/2"	1/2"	1/2"	-	AMERICAN STANDARD FIXTURE: #0476.028 FAUCET: #2385.003 VALVE: #605XTMV	-VITREOUS CHINA, COUNTERTOP MOUNTED, 20 3/4"x17 3/4", 4" O.C. FAUCET HOLES, SELF-RIMMING, FRONT OVERFLOW, GRID STRAINER -ELECTRONIC FAUCET WITH PROXIMITY SENSOR, INTERGAL SOLENOID VALVE WITH STRAINER, 0.5 GPM, VANDAL RESISTANT FLOW CONTROL -THERMOSTAIC MIXING VALVE, NON-SCALD, FLEXIBLE SUPPLY HOSES
L-H	LAVATORY, WALL HUNG, ADA COMPLIANT	TOILET ROOMS	1/2"	1/2"	1/2"	1/2"	-	AMERICAN STANDARD FIXTURE: #0355.012 FAUCET: #2385.003 VALVE: #605XTMV	-VITREOUS CHINA 20 1/2"x18 1/4", WALL MOUNTED, WITH CONCEALED ARMS & CARRIERS SUPPORTED FROM FLOOR (WITHSTANDING 250# OF LOAD APPLIED ON THE FRONT OF THE FIXTURE), 4" O.C. FAUCET HOLES, FRONT OVERFLOW, GRID STRAINER. INSTALL FIXTURE AT H/C HEIGHT. -ELECTRONIC FAUCET WITH PROXIMITY SENSOR, INTERGAL SOLENOID VALVE WITH STRAINER, 0.5 GPM, VANDAL RESISTANT FLOW CONTROL -THERMOSTAIC MIXING VALVE, NON-SCALD, FLEXIBLE SUPPLY HOSES
UR	URNAL, WALL HUNG, FLUSH VALVE	TOILET ROOMS	2"	1 1/2"	3/4"	-	-	AMERICAN STANDARD WASHBROOK FLO-WISE 6590.125 VALVE: SLOAN ROYAL #8186-0.5	-VITREOUS CHINA, 0.125 GPF, 3/4 IN. NPT INLET, WALL FLANGE, LOW-CONSUMPTION (0.5 GPF), WITH INTEGRAL FLUSHING RIM, WASHOUT FLUSH ACTION, INTEGRAL STRAINER, 3/4" TOP INLET SPUD, REAR OUTLET SPUD WITH 2" TAILPIECE THREADED FOR FEMALE CONNECTION, INTEGRAL TRAP, FURNISH WITH CONCEALED WALL HANGER AND 2 IN. FEMALE FLANGED OUTLET CONNECTION. -ELECTRONIC EXPOSED FLUSHOMETER, 0.5 GPF, 3/4" SCREWDRIVER ANGLE STOP VALVE, CHROME FINISH, BATTERY POWERED SENSOR
UR-H	URNAL, WALL HUNG, FLUSH VALVE, ADA COMPLIANT	TOILET ROOMS	2"	1 1/2"	3/4"	-	-	AMERICAN STANDARD WASHBROOK FLO-WISE 6590.125 VALVE: SLOAN ROYAL #186-0.5	-VITREOUS CHINA, 0.125 GPF, 3/4 IN. NPT INLET, WALL FLANGE, LOW-CONSUMPTION (0.5 GPF), WITH INTEGRAL FLUSHING RIM, WASHOUT FLUSH ACTION, INTEGRAL STRAINER, 3/4" TOP INLET SPUD, REAR OUTLET SPUD WITH 2" TAILPIECE THREADED FOR FEMALE CONNECTION, INTEGRAL TRAP, FURNISH WITH CONCEALED WALL HANGER AND 2 IN. FEMALE FLANGED OUTLET CONNECTION. INSTALL FIXTURE AT H/C HEIGHT -ELECTRONIC EXPOSED FLUSHOMETER, 0.5 GPF, 3/4" SCREWDRIVER ANGLE STOP VALVE, CHROME FINISH, BATTERY POWERED SENSOR
WC-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE	TOILET ROOMS	3"	2"	1"	-	-	AMERICAN STANDARD MADERA FLO-WISE 3451.128 SEAT: OLSONITE #95C VALVE: SLOAN #111-1.2	-VITREOUS CHINA, WATER SAVER 1.28 GPF, TOP SPUD, ELONGATED SPHON ACTION JET ACTION BOWL, 15" RIM HEIGHT, 10" ROUGH-IN -WHITE OPEN FRONT SEAT LESS COVER, CHECK HINGE STOPS -ELECTRONIC EXPOSED FLUSHOMETER, 1.2 GPF, 1" SCREWDRIVER ANGLE CHECK STOP VALVE, CHROME FINISH, BATTERY POWERED SENSOR
WC-H	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, ADA COMPLIANT	TOILET ROOMS	3"	2"	1"	-	-	AMERICAN STANDARD MADERA FLO-WISE 3461.128 SEAT: OLSONITE #95C VALVE: SLOAN #111-1.2	-VITREOUS CHINA, WATER SAVER 1.28 GPF, TOP SPUD, ELONGATED SPHON ACTION JET ACTION BOWL, 16 1/2" RIM HEIGHT, 10" ROUGH-IN -WHITE OPEN FRONT SEAT LESS COVER, CHECK HINGE STOPS -ELECTRONIC EXPOSED FLUSHOMETER, 1.2 GPF, 1" SCREWDRIVER ANGLE CHECK STOP VALVE, CHROME FINISH, BATTERY POWERED SENSOR
SH	SHOWER, ADA COMPLIANT	TOILET ROOMS	2"	1 1/2"	1/2"	1/2"	-	SHOWER VALVE: DELTA 1323 SHOWER DRAIN: ZURN Z415-5B-P	-SCALD-GARD PRESSURE BALANCING, SHOWER MIXING VALVE WITH WALL MOUNTED SHOWER HEAD. STUB-OUT HEAD AT 80", LEVER HANDLE -5" DIAMETER ROUND NICKEL-BRONZE TOP.
EWCH	ELECTRIC WATER COOLER, ADA COMPLIANT	PUBLIC AREA	1 1/2"	1 1/2"	1/2"	-	-	ELKAY MODEL #EZTL8C	-TWO-STATION, BARRIER-FREE COOLERS, WALL MOUNTED WHEELCHAIR ACCESS ONE PIECE STAINLESS STEEL BASIN WITH INTEGRAL DRAIN GRID, & BUBBLER, HEAVY-DUTY STEEL FRAME, LED-FREE WATERWAY, 8.0 GPH (@50°F W/90°F AMBIENT), 370 WATTS, 115V/1PH/60Hz. PROVIDE WATER FILTER WATTS MODEL No. WF, OR APPROVED EQUAL.
S-1	WASH FOUNTAIN, ADA COMPLIANT	TOILET ROOMS	2"	1 1/2"	1/2"	1/2"	-	BRADLEY: #TDB3104	-54" SEMI-CIRCULAR DEEP BOWL WASH FOUNTAIN, 34" RIM HEIGHT, POLYESTER RESIN CONSTRUCTION/MOLDED FIBERGLASS PEDESTAL WITH ACCESS PANEL, INFRARED ACTIVATED BATTERY POWERED CONTROLS WITH THERMOSTATIC MIXING VALVE, THRU-WALL DRAIN AND SUPPLIES (COLOR BY ARCHITECT/OWNER)
S-2	SINGLE BOWL COUNTERTOP SINK	BREAK ROOM	1 1/2"	1 1/2"	1/2"	1/2"	-	ELKAY # LR-2522 AMERICAN STANDARD FAUCET #4205.000 WASTE FITTINGS: #LK-18	- 25 IN X 22 IN SINK, COUNTERTOP, SINGLE BOWL, SELF RIM, #304 STAINLESS STEEL W/DROP LEDGE. THREE HOLE PUNCH. (SEE NOTES 1,2&3) - SINGLE LEVER DECK MOUNTED FAUCET WITH SWIVEL SPOUT AND FLOW RESTRICTOR 0.5 GPM, LESS HAND SPRAY -CHROME PLATED, PERFORATED GRID STRAINER WITH 1 1/2" TAILPIECE.
MSB	MOP SERVICE BASIN	JANITOR CLOSET	3"	1 1/2"	1/2"	1/2"	-	FIAT: #TSBCR 1000 FAUCET: FIAT #B30-AA	-PRECAST TERRAZO, NEO-CORNER, 12" HIGH WITH 6" HIGH DROP -CHROME PLATED FAUCET, VACUUM BREAKER, INTEGRAL STOPS AND WALL BRACE

- NOTES:**  
 1. SINK, LAVATORY & WATER COOLERS SUPPLY SHALL BE BRASS W/ BRASS ANGLE STOPS FOR 1/2" WATER SUPPLY LINES, W/ LOOSE KEY (W/CAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: E.B.C., INC. OR APPROVED EQUAL.  
 2. CAST BODY "P" TRAP 1 1/4" x 1 1/4" WITH HEAVY CAST J-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: E.B.C., INC. OR APPROVED EQUAL.  
 3. STRAINERS SHALL BE FURNISHED W/FIXTURES AS REQUIRED. FOR H/C LAVATORY PROVIDE OFFSET TAILPIECE.  
 4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBAL HANDI LAV-GUARDS INSTALLATION KIT AT ADA COMPLIANT LAVATORIES FOR WATER SUPPLIES & WASTE LINE.  
 5. PROVIDE WATER SUPPLY & "P" TRAP & OPTIONAL WATER FILTERS FOR ELECTRIC WATER COOLERS AS PER MANUFACTURERS RECOMMENDATIONS.  
 6. CONNECT COLD & HOT WATER SUPPLY AT FAUCET TO COMMON COLD WATER SUPPLY.

MANATEE COUNTY GOVERNMENT



Facilities Management  
 1112 Manatee Avenue West  
 Suite 803, P.O. Box 1000  
 Bradenton, Florida 34206  
 (941) 748-4501  
 FAX (941) 742-5880

REMARKS

DATE

REV.

PHASE - 2  
 MANATEE FLEET SERVICES  
 1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
 Yehuda Inbar AIA  
 Inbar architect AIA

Checked by:  
 Al Maronek

Date  
 11-19-08

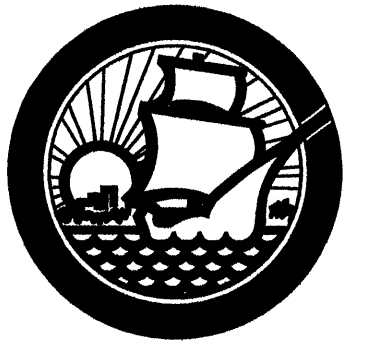
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	GRINER ENGINEERING, INC.	Date	11/19/2008
	1628 First Avenue North	Drawn	JWV
	St. Petersburg, Florida 33713	Designed	JWV
	Phone: (727) 422-2335	Revised	
	Fax: (727) 423-3361	Job no.	08067



REMARKS

DATE

REV.

PHASE - 2  
MANATEE FLEET SERVICES  
1200 26TH AVE. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by:  
Al Meronek

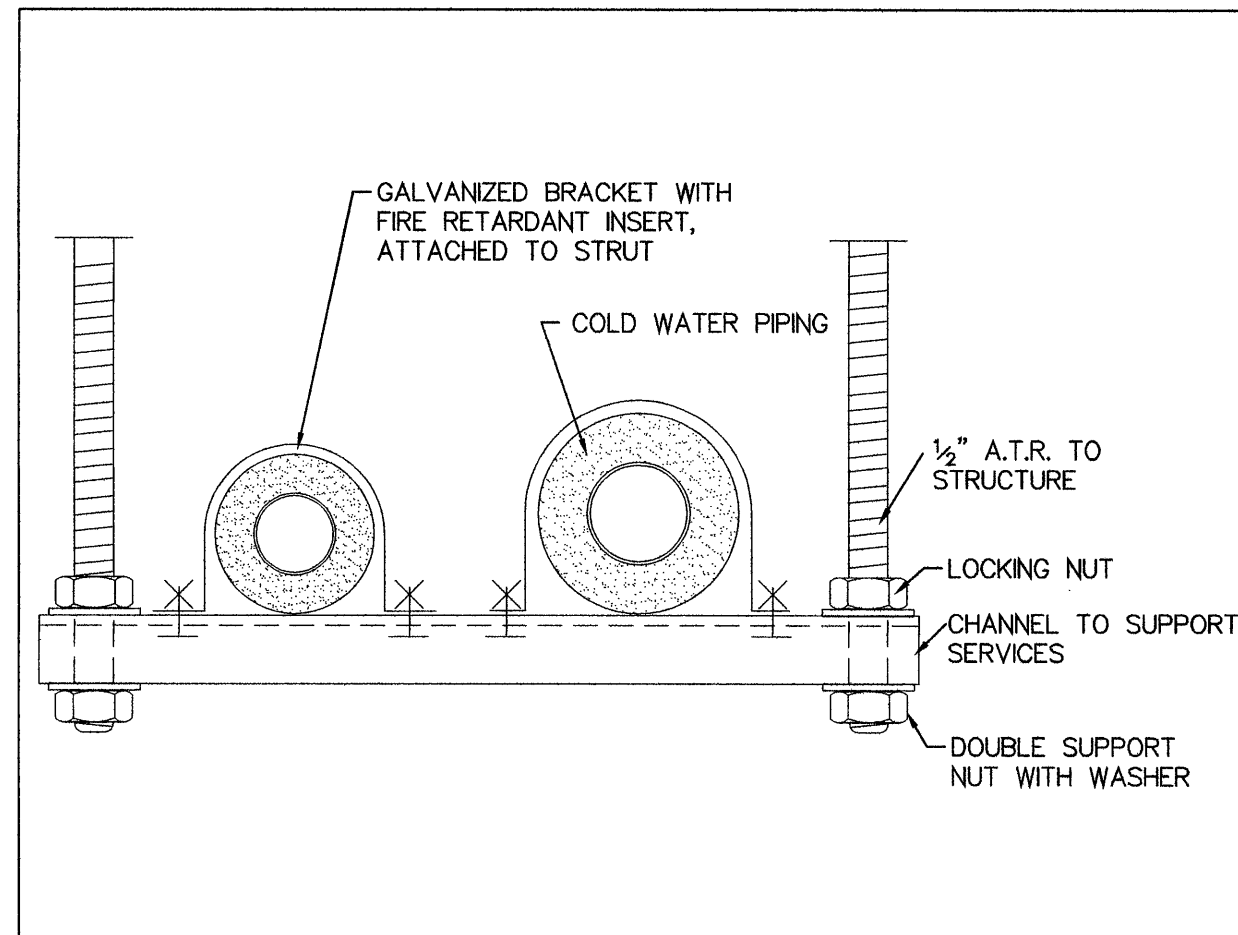
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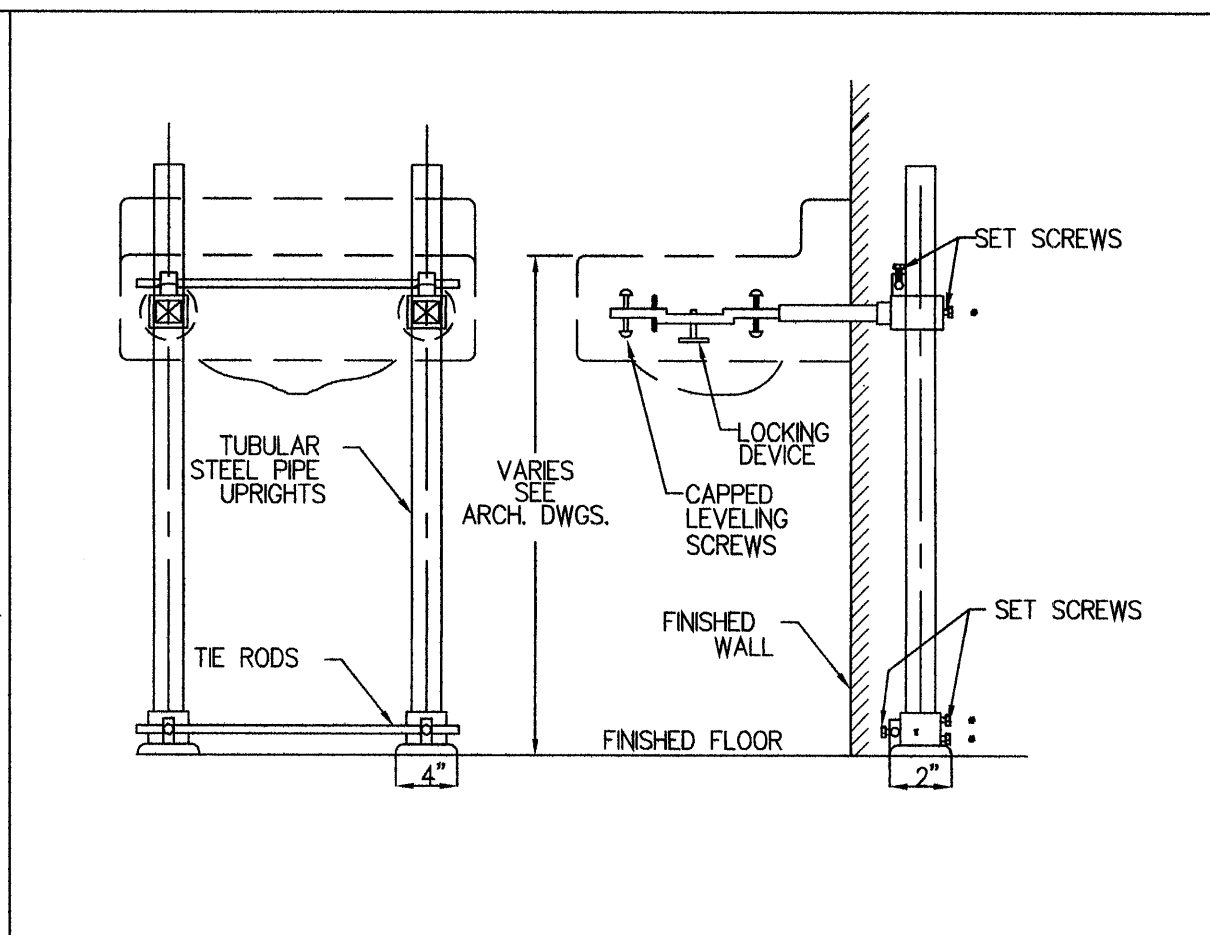
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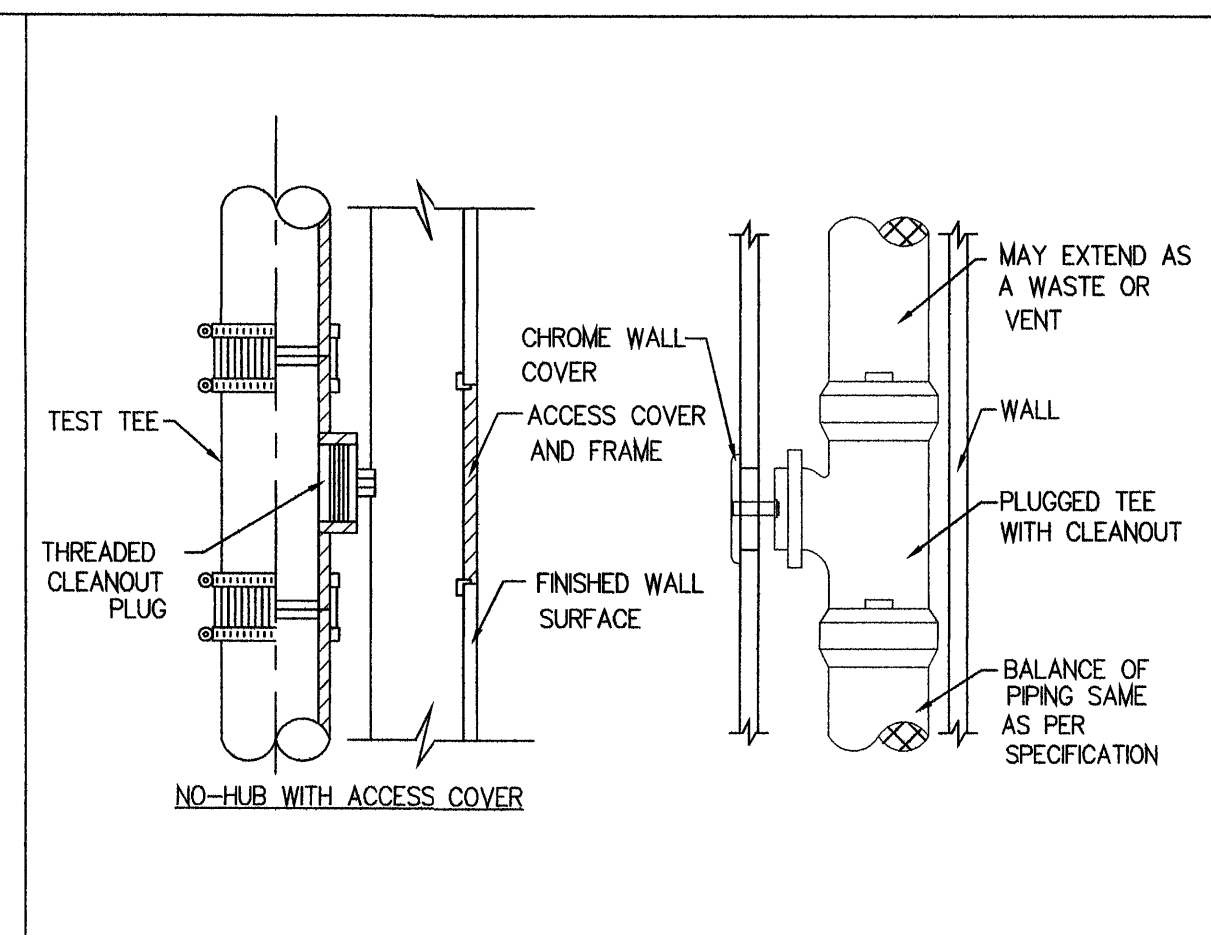
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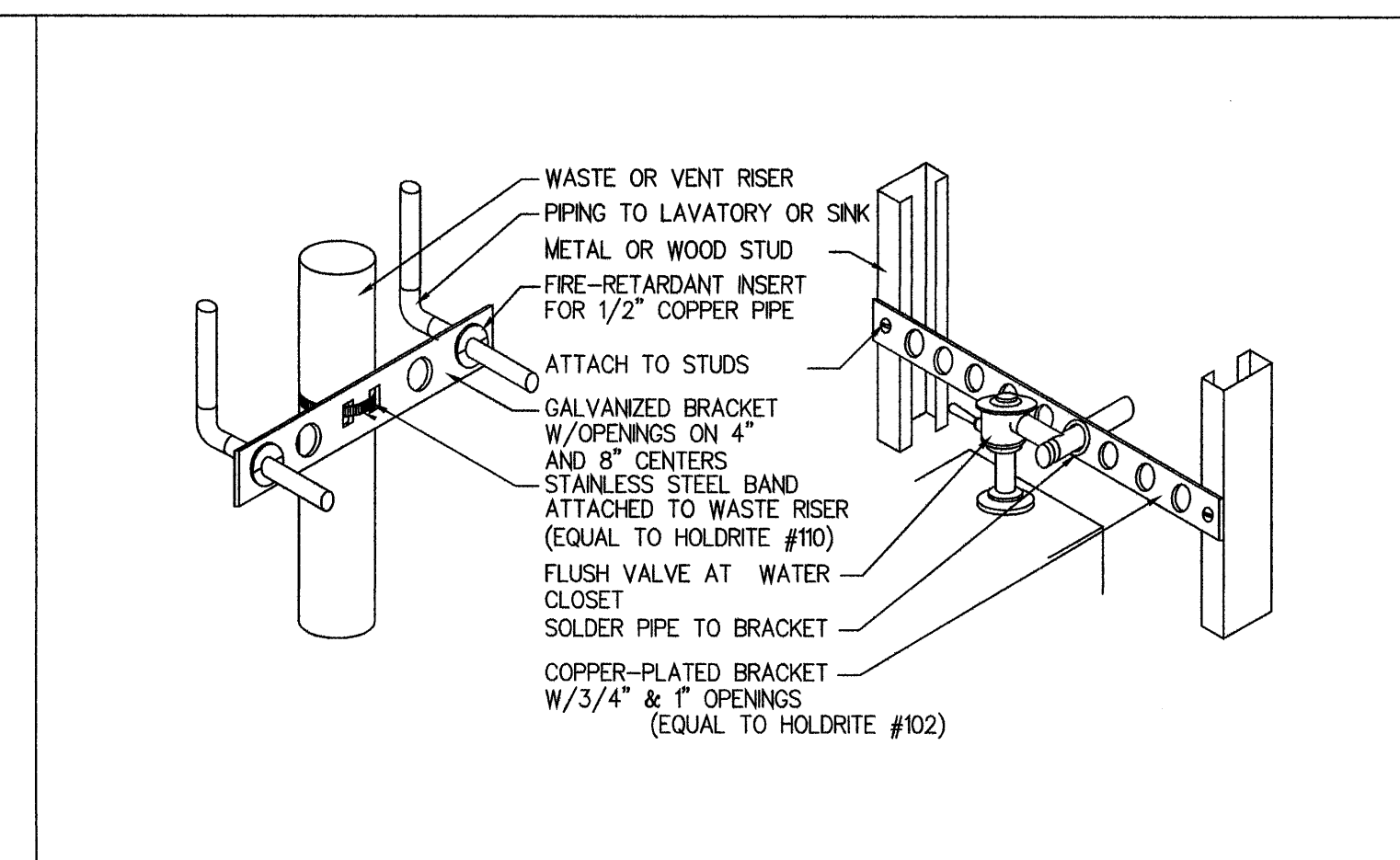
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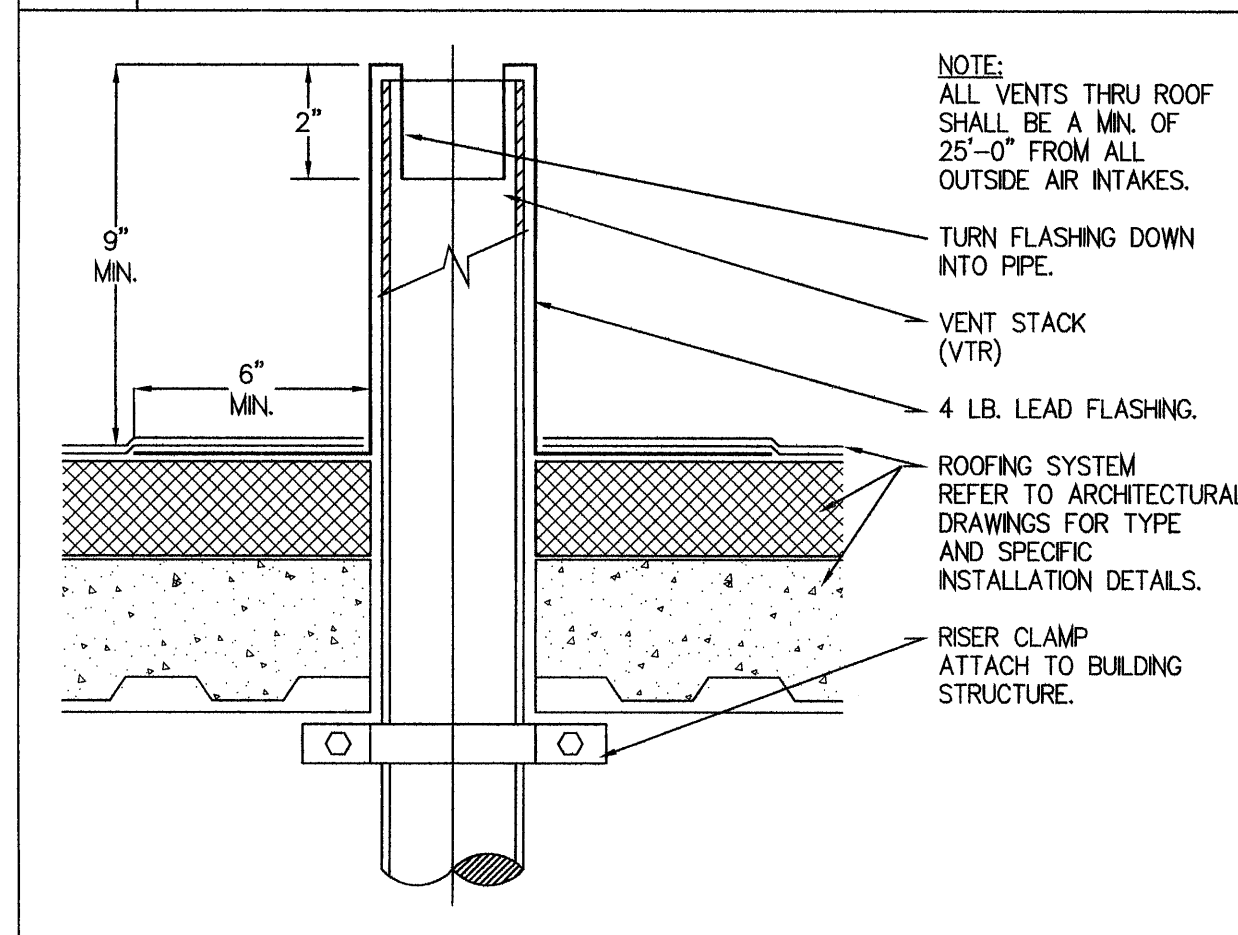
2 LAVATORY CARRIER  
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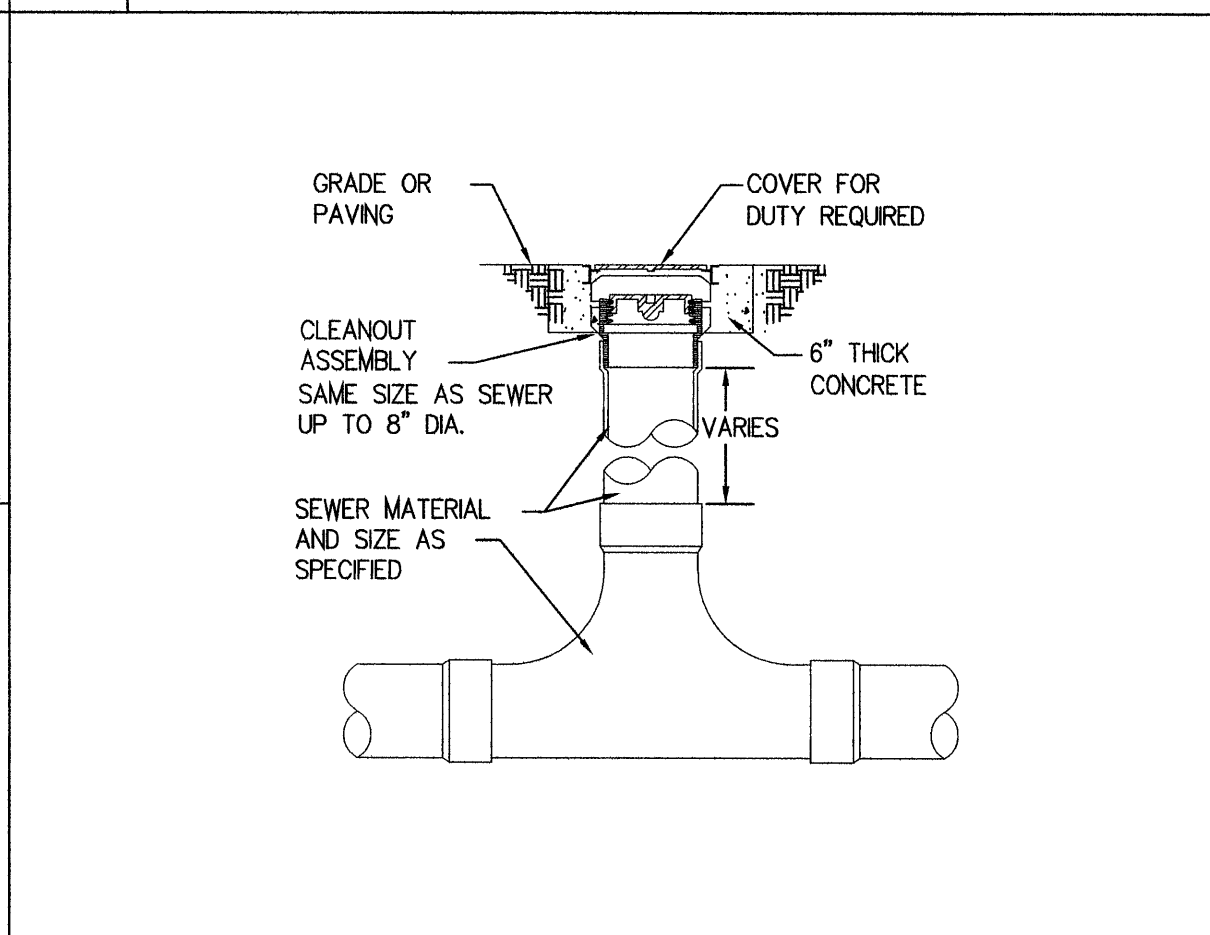
3 WALL CLEANOUT DETAIL  
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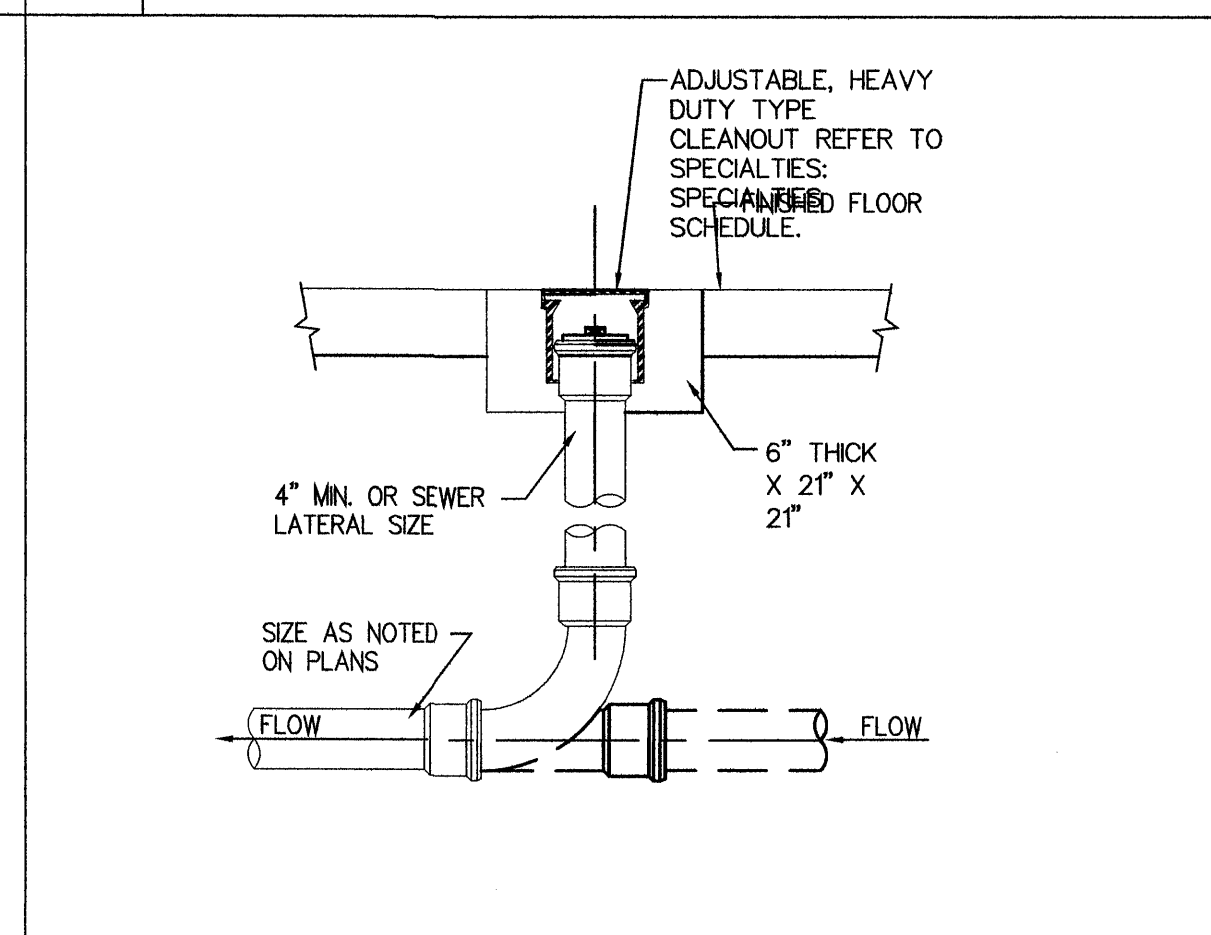
4 WATER PIPING SUPPORT DETAIL  
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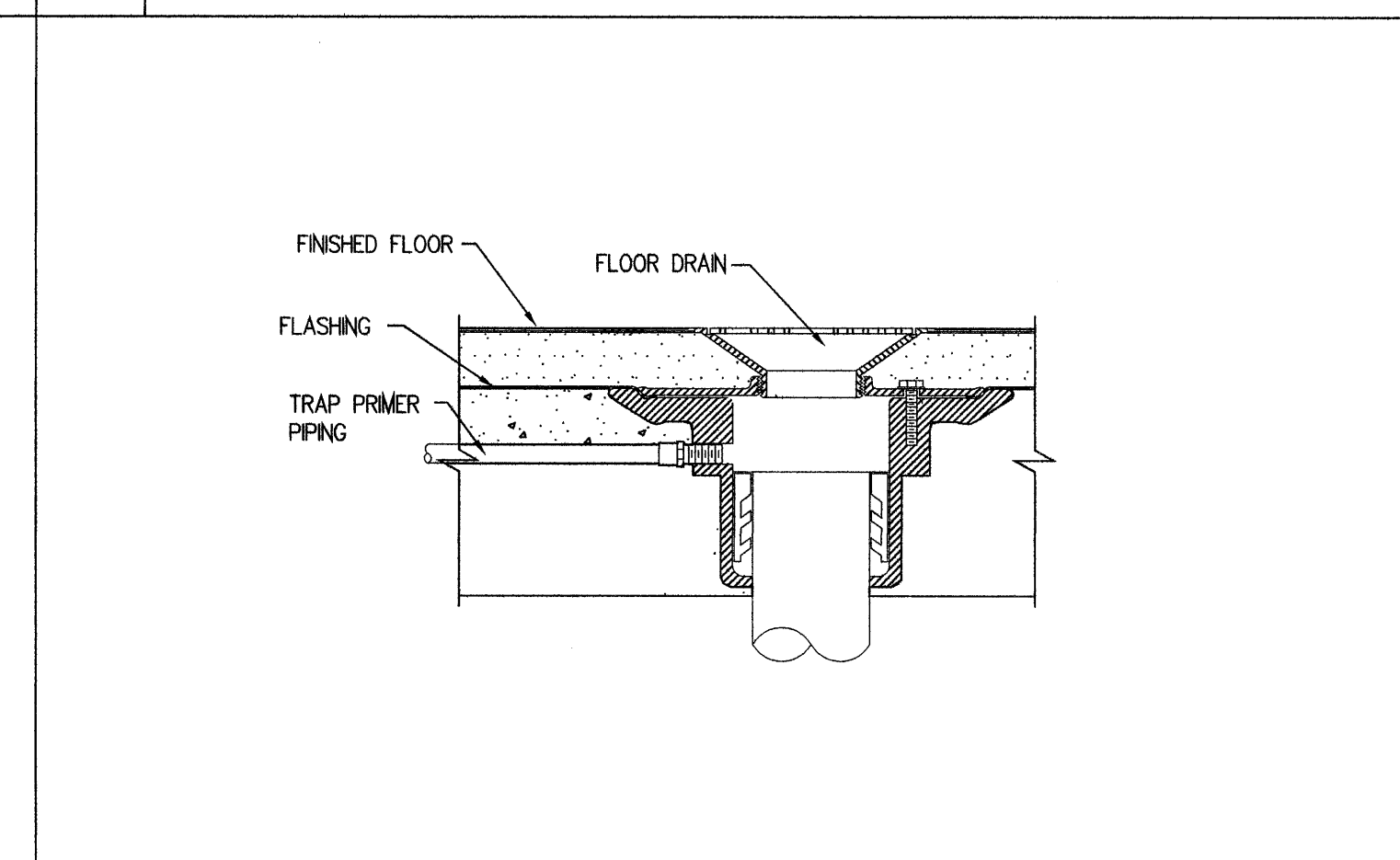
5 VENT THROUGH ROOF  
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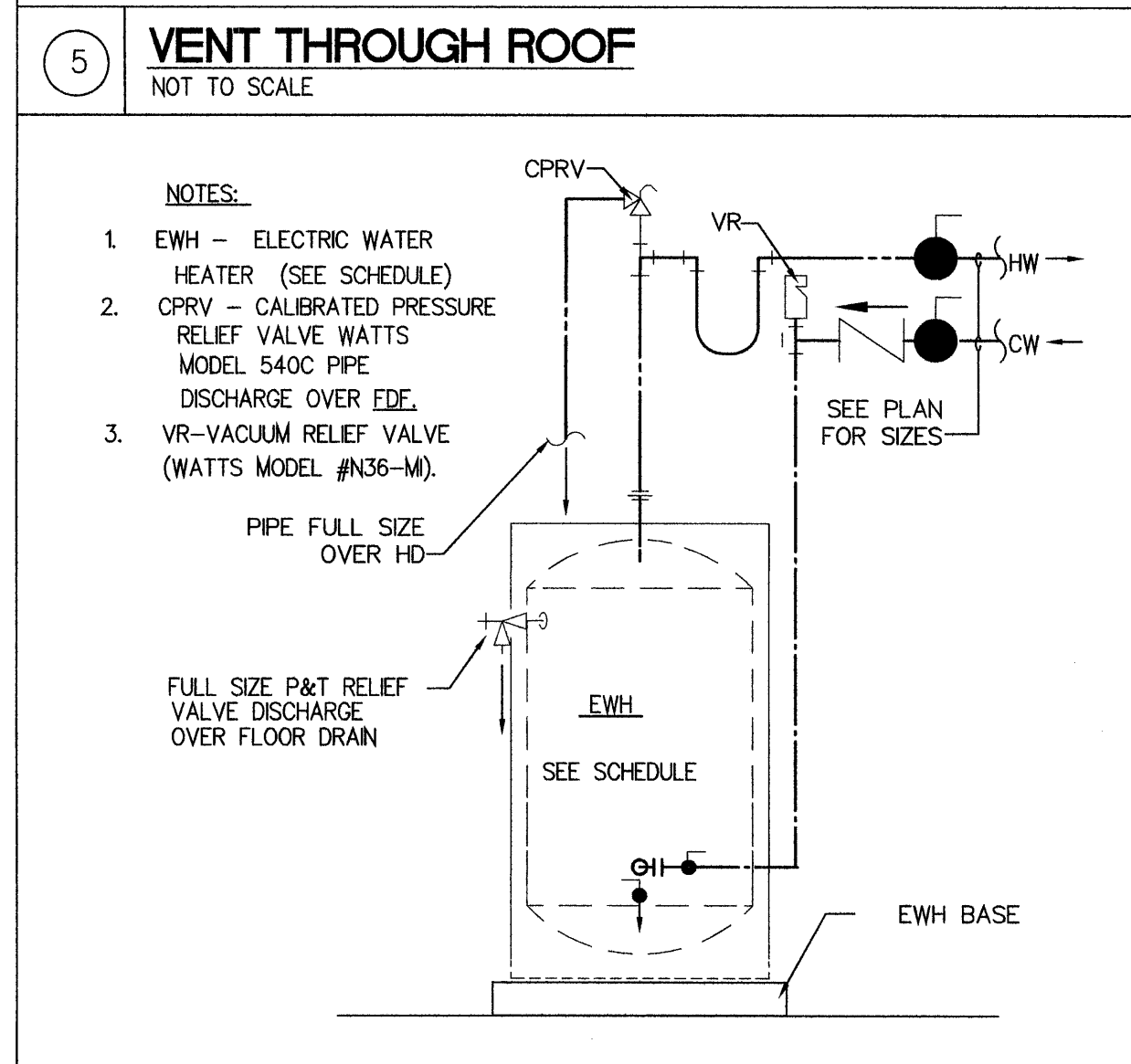
6 YARD CLANOUT  
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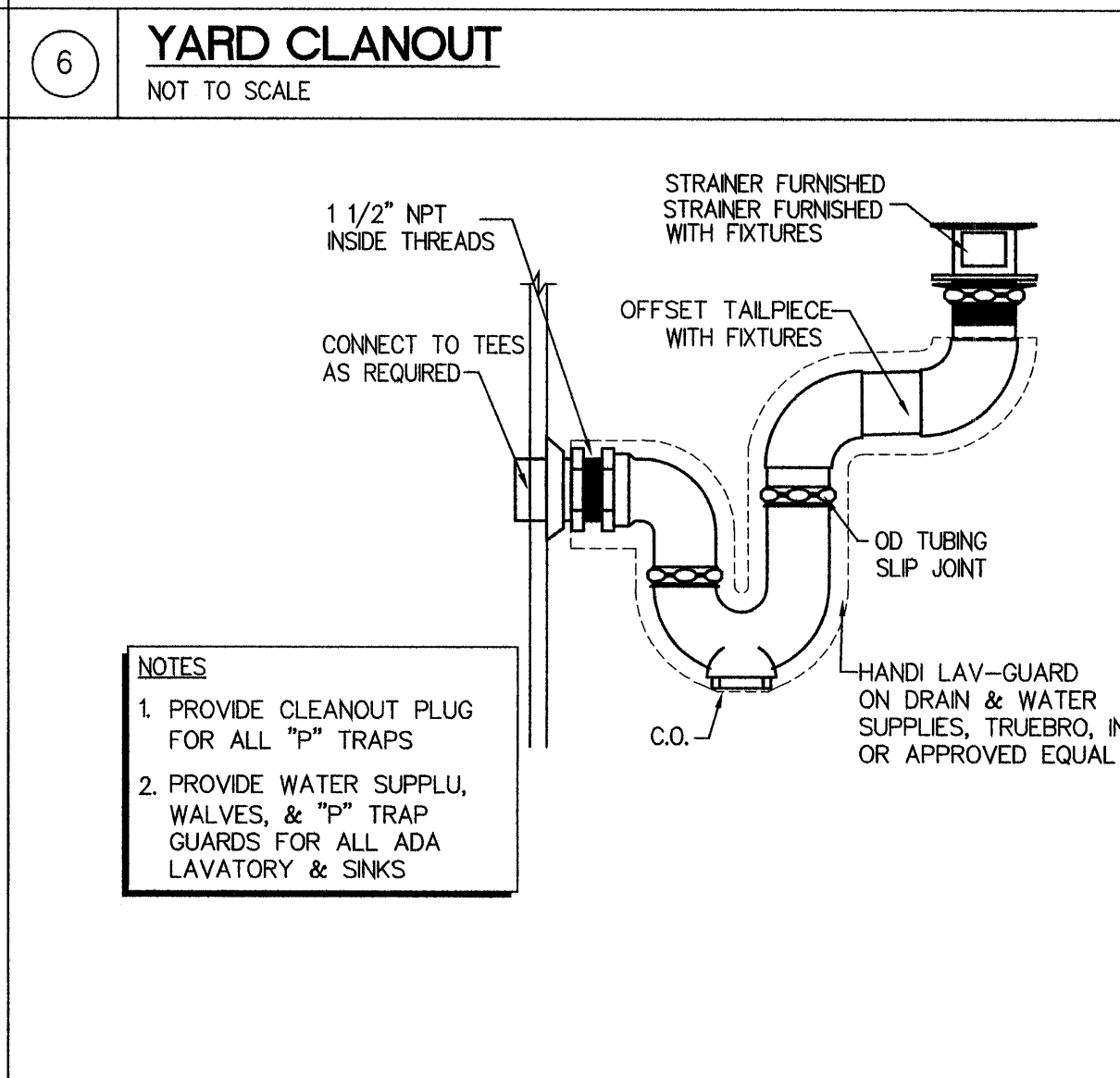
7 FLOOR CLANOUT  
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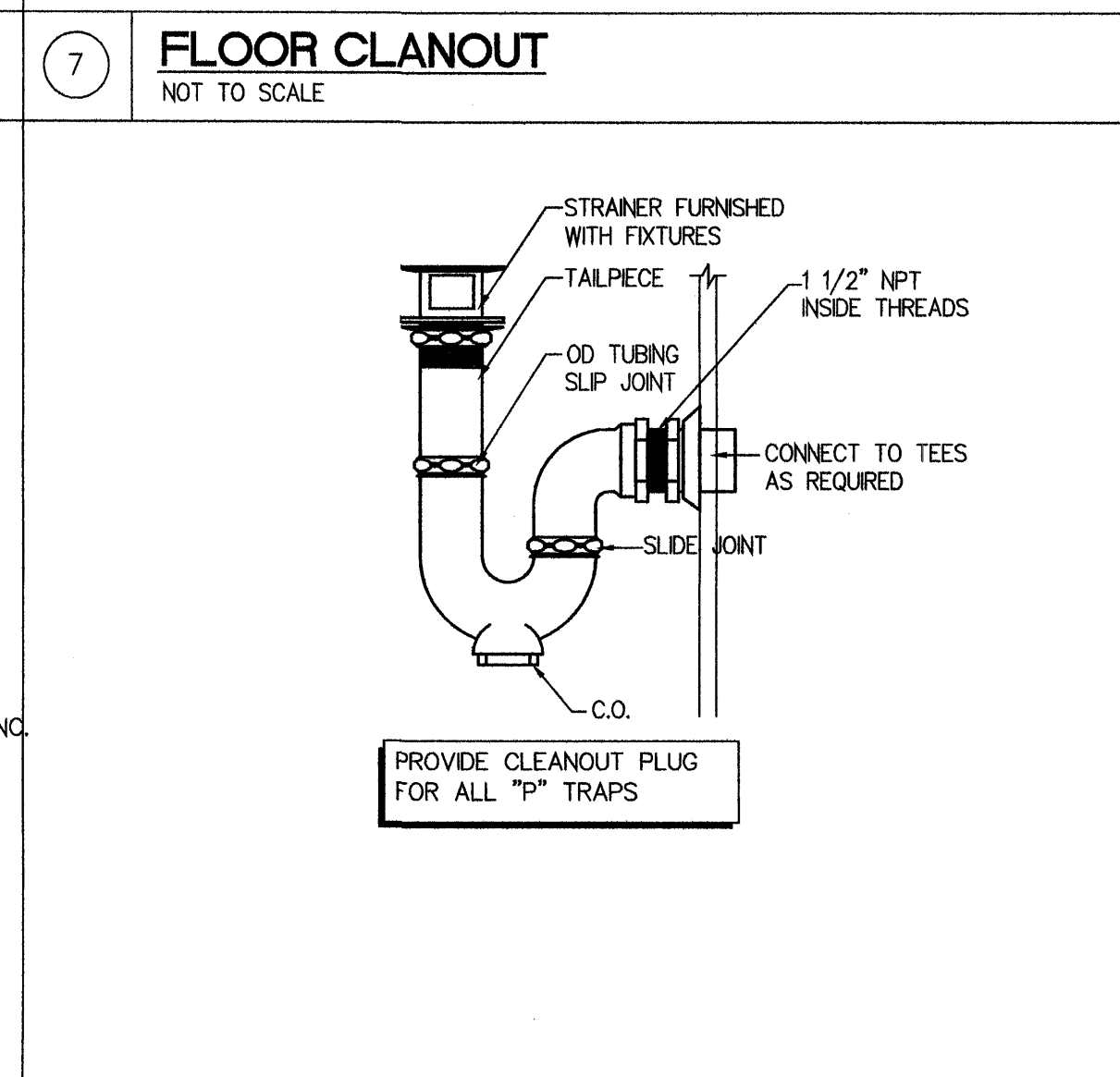
8 TRAP PRIMER CONNECTION DETAIL  
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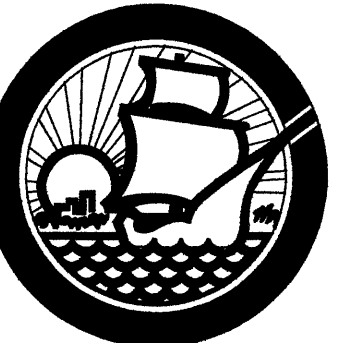
9 WATER HEATER INSTALLATION  
NOT TO SCALE



10 "P" TRAP FOR H/C FIXTURES  
NOT TO SCALE



11 "P" TRAP WITH CLEANOUT  
NOT TO SCALE



REMARKS  
FINAL PLAN APPROVAL:

DATE

REV.

PHASE - II  
MANATEE FLEET SERVICES  
1100 26TH AV. EAST, BRADENTON, FLORIDA

Project Number

Drawn by:  
Yehuda Inbar AIA  
Inbar architect AIA

Checked by:  
Al Meronek

Date 03-17-09

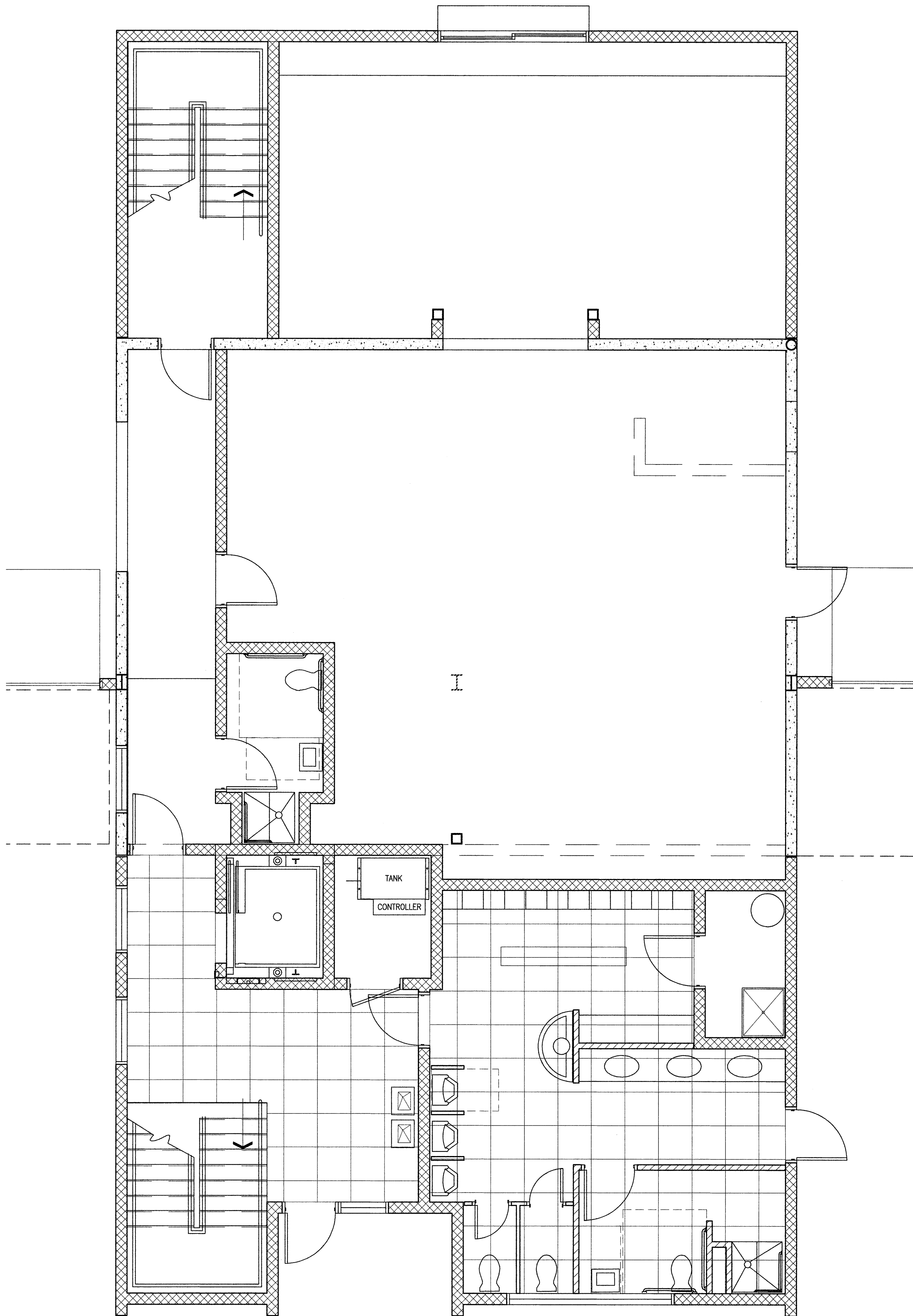
Alan John Meronek  
AR 91853

Expires 2-28-2011

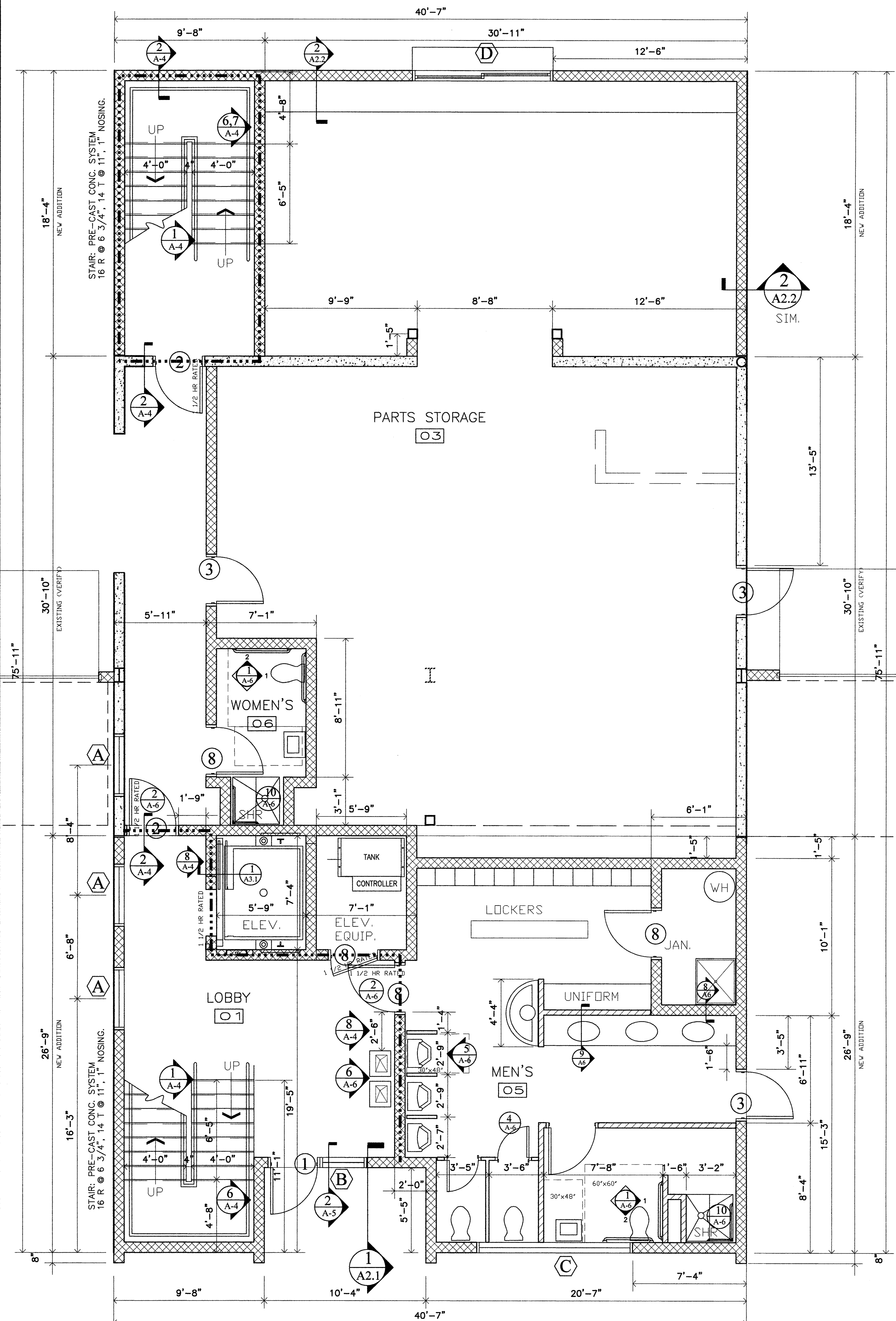
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Drawing Number



PARTIAL FIRST FLOOR CEILING PLAN  
1/4" = 1'-0"



PARTIAL FIRST FLOOR PLAN  
1/4" = 1'-0"