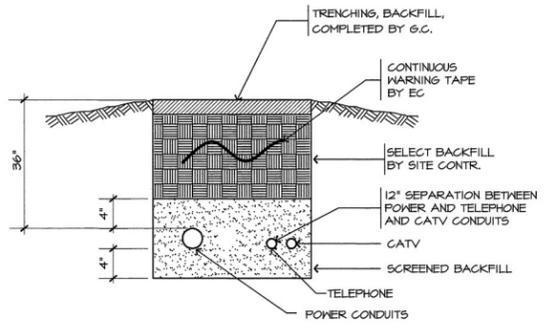
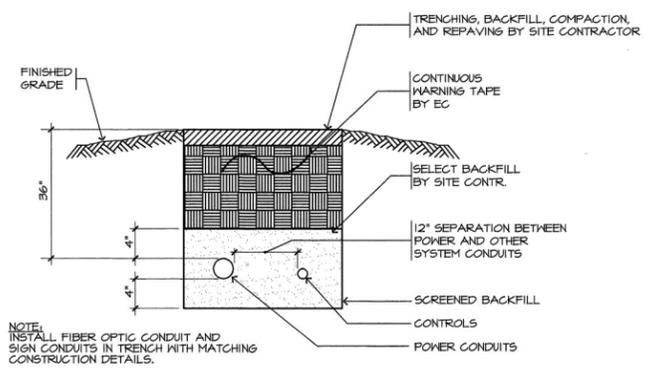


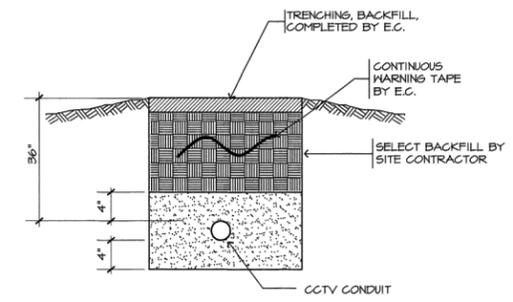
PRIMARY CONDUIT TRENCH DETAIL
NOT TO SCALE



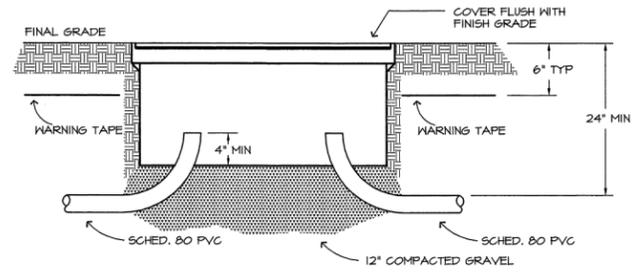
SECONDARY CONDUIT TRENCH DETAIL
NOT TO SCALE



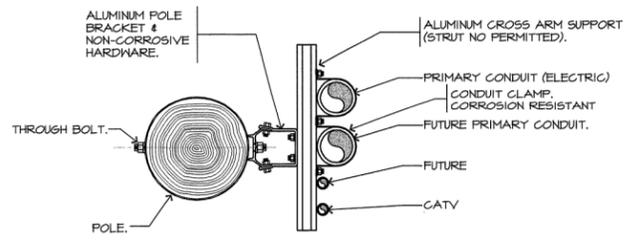
SECURITY GATE CONDUIT TRENCH DETAIL
NOT TO SCALE



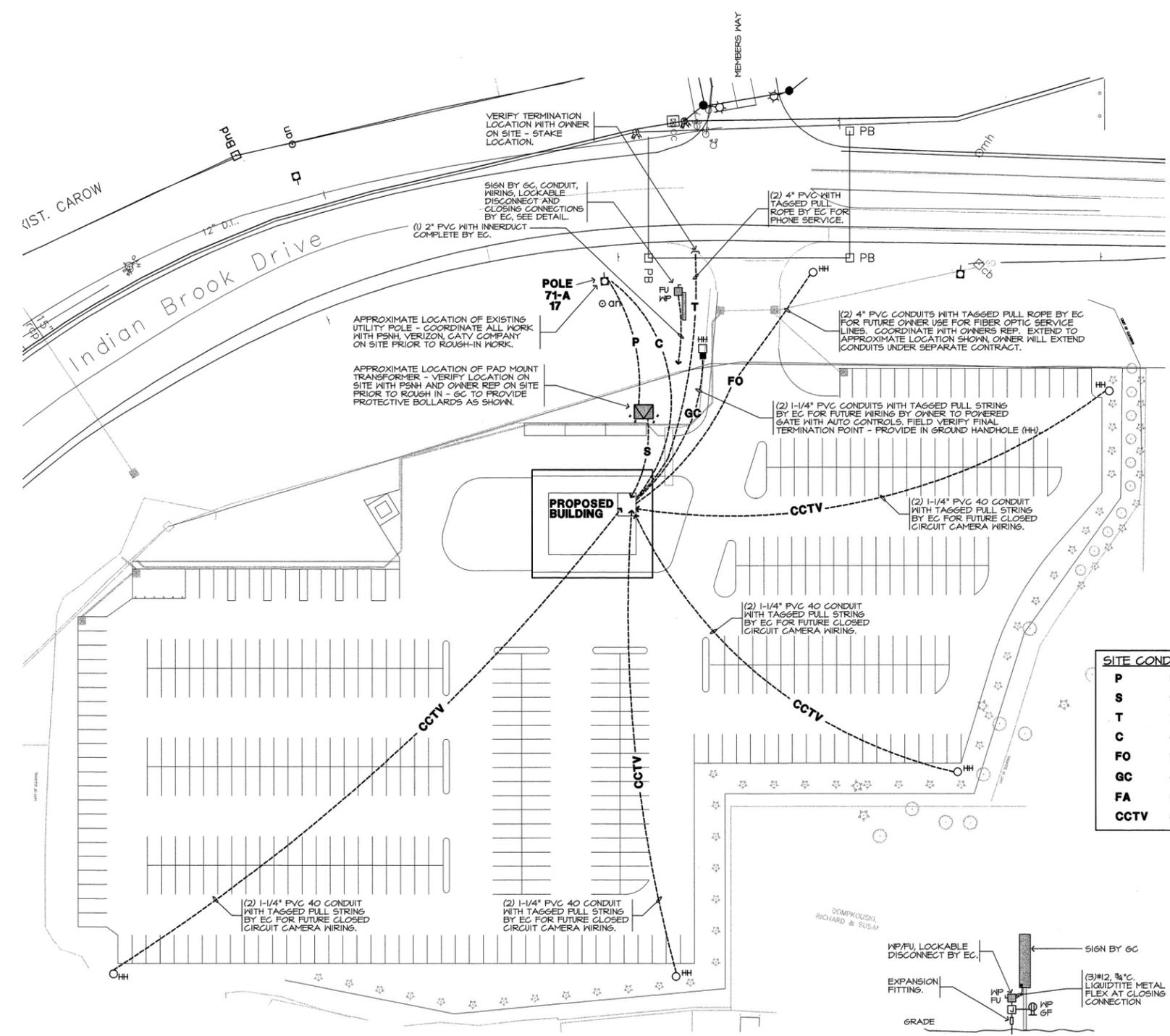
CCTV TRENCH SECTION
NOT TO SCALE



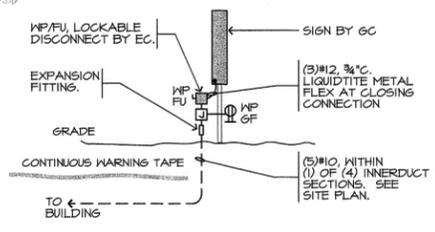
HANDHOLE DETAIL -- "HH"
NOT TO SCALE



PLAN OF POLE HARDWARE
NOT TO SCALE
TYP. @ 4' SPACING



ELECTRICAL SITE PLAN
SCALE: 1"=40'

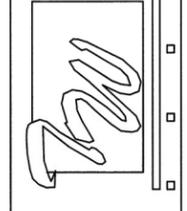


SIGN WIRING DETAIL
NOT TO SCALE

SITE CONDUIT LEGEND:

P	PRIMARY
S	SECONDARY
T	TELEPHONE
C	CATV
FO	FIBEROPTIC
GC	GATE CONDUITS
FA	FIRE ALARM
CCTV	CCTV

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DOVER BUS FACILITY
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05171
mechanical electrical consulting engineers
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E S1

ELECTRICAL SYMBOL LIST

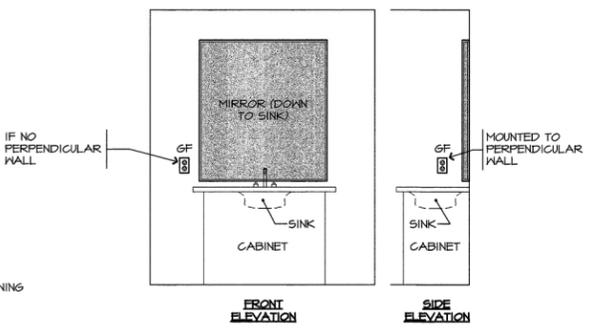
NOT ALL SYMBOLS ARE NECESSARILY USED

- FLUORESCENT STRIP FIXTURE
- RECESSED, FLUORESCENT FIXTURE
- WALL BRACKET
- CEILING FIXTURE, SURFACE OR RECESS MOUNTING, REFER TO SPECIFICATIONS. RECESS: PROVIDE DIRECT CONTACT, WITH INSULATION WHERE APPLICABLE COORDINATE WITH ARCH. PLANS/ELEVATIONS
- EMERGENCY BATTERY UNIT, NO ATTACHED HEADS
- EMERGENCY BATTERY UNIT, ATTACHED HEADS
- REMOTE EMERGENCY LIGHTING FIXTURE, DOUBLE HEAD, POWERED FROM REMOTE BATTERY UNIT
- EXIT SIGN, SELF POWERED
- EXIT SIGN, SELF POWERED, WALL MOUNTED
- SINGLE POLE SWITCH 20 AMP 125/277 VOLT TOGGLE
- 3-WAY SWITCH 20 AMP 125/277 VOLT TOGGLE
- 4-WAY SWITCH 20 AMP 125/277 VOLT TOGGLE
- PILOT LIGHT SWITCH 20 AMP 125 VOLT TOGGLE, FLUSH MOUNT SEE NOTES AT DEVICE FOR SPECIFIC MOUNTING INSTRUCTIONS
- OIL BURNER SHUT OFF SWITCH
- DIMMER SWITCH, 120 VOLT, SLIDE TYPE, 1000 WATT MIN
- WALL BOX TIMER SWITCH
- WALL BOX OCCUPANCY SENSOR
- CEILING MOUNTED OCCUPANCY SENSOR SWITCH.
- OIL BURNER FIRE-O-MATIC THERMAL CUTOUT SWITCH
- DUPLEX RECEPTACLE 20 AMP 125 VOLT
- CEILING MOUNTED RECEPTACLE, WHITE COLOR, FOR "SHOW WINDOW" USE, 120 VOLT, 20 AMP, WHITE PLATE
- DUPLEX RECEPTACLE ABOVE COUNTER AND BACKSPASH, VERIFY FINAL MOUNTING HEIGHT ON SITE PRIOR TO ROUGH IN
- ISOLATED GROUND DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, SPLIT WIRED, TOP HALF SWITCH CONTROLLED
- DOUBLE DUPLEX RECEPTACLE, INSTALL IN 2-GANG BOX UNDER ONE 2-GANG PLATE, WIRE TO COMMON CIRCUIT AS SHOWN
- DUPLEX RECEPTACLE WITH METAL WEATHERPROOF IN-USE, GASKETED COVER
- GROUND FAULT TYPE DUPLEX RECEPTACLE, 20 AMP 125 VOLT CLASS A WITH 20 AMP FEED THROUGH RATING, PLATE TO MATCH OTHER DEVICES INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS (MIN. 3-1/2" WALL BOX)
- GROUND FAULT TYPE DUPLEX RECEPTACLE, WITH WEATHERPROOF COVER INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS (MIN. 3-1/2" WALL BOX)
- FLOOR MOUNTED RECEPTACLE
- SPECIAL 10 or 30 OUTLET, 208 VOLT, CONFIRM AMPERAGE AND N.E.M.A. CONFIGURATION TO SUITE EQUIPMENT BEING SERVED
- RANGE OUTLET, 50 AMP, 4 WIRE, FLUSH RECEPTACLE IN DEEP BOX WITH RAISED COVER
- TELEPHONE SYSTEM NETWORK INTERFACE (DEMARCON) POINT FURNISHED AND INSTALLED BY LOCAL TELEPHONE SERVICE CO., QUANTITY AS REQUESTED BY OWNER TO SERVE NEEDS
- TELEPHONE OUTLET, BOX AND DROP SEE DROP DETAIL AND PHONE RISER
- TELEPHONE OUTLET, WALL OR PAY TYPE AS NOTED
- CATV OUTLET BOX AND DROP, SEE DETAILS AND CATV RISER DIAGRAM
- COMPUTER OUTLET BOX AND DROP, SEE DETAILS
- WIRING HOME RUN TO PANEL AS NOTED, (2) #12, (1) #12 GND MIN. BACK TO 20 AMP, SINGLE POLE BREAKER UNLESS NOTED OTHERWISE
- INDICATES (2) POWER CONDUCTORS WITH FULL SIZE GROUND
- INDICATES (3) POWER CONDUCTORS WITH FULL SIZE GROUND
- INDICATES (4) POWER CONDUCTORS WITH FULL SIZE GROUND
- CABLE OR RACEWAY RUN CONCEALED IN WALLS OR CEILINGS SURFACE MOUNTED WHERE NOTED OR ALLOWED IN UTILITY OR UNFINISHED AREAS
- UNDERSLAB RACEWAY AS NOTED
- EMERGENCY LIGHTING LOW VOLTAGE (12 VDC) WIRING, RUN CONCEALED IN WALLS OR ABOVE CEILINGS. SURFACE MOUNTED ONLY IN UTILITY AREAS OR WHERE SPECIFICALLY ALLOWED
- ELECTRICAL PANELBOARD, VOLTAGE AND PHASE AS NOTED REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS
- TELEPHONE AND CATV BACKBOARD BY E.C., SEE SYSTEMS RISER DIAGRAMS FOR ADDITIONAL DETAILS AND SPECIFICATIONS
- DISCONNECT SWITCH BY E.C., 250 VOLT, NEMA 1 (OR 3R AS NOTED), FUSIBLE, SIZE AS NOTED OR REQUIRED, DUAL ELEMENT, TIME DELAY FUSES SIZED, FURNISHED AND INSTALLED BY EC PER EQUIPMENT NAMEPLATE VALUES
- TIMECLOCK
- PHOTOCCELL
- FIRE SEAL AT RATED PARTITION
- ALARM BELL
- TRANSFORMER, 120/24 VAC
- MANUAL MOTOR STARTER
- MAGNETIC OR COMBINATION MOTOR STARTER
- EXHAUST FAN, FURNISHED WITH DUCTWORK AND INSTALLED BY M.C. POWER WIRING BY E.C. AS SHOWN OR AS NOTED, FANS ARE 120 VOLT, FRACTIONAL HORSEPOWER, UNLESS SPECIFICALLY NOTED OTHERWISE
- EQUIPMENT MOTOR, FURNISHED AND INSTALLED COMPLETE BY OTHERS AS NOTED, POWER WIRING AND DISCONNECT BY E.C. AS REQUIRED

ELECTRICAL ABBREVIATIONS

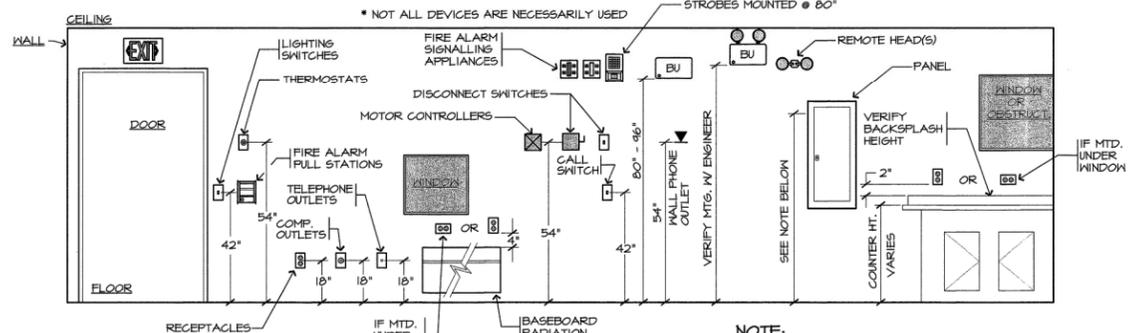
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AL ALUMINUM
- BC BARE COPPER
- BKED BACKBOARD
- BLDG BUILDING
- C CONDUIT
- CATV CABLE TELEVISION
- CSA CANADIAN STANDARDS
- CU COPPER
- DET DETAIL
- DWG DRAWING
- EMT ELECTRICAL METALLIC TUBING
- EXIST EXISTING
- FU FUSIBLE
- GC GENERAL CONTRACTOR
- GF GROUND FAULT (PROTECTED) = GFCI
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- HVAC HEATING, VENTILATION AND AIR CONDITIONING
- MC MECHANICAL CONTRACTOR
- MCB MAIN CIRCUIT BREAKER
- MH MAGNETIC HOLDERS
- MIN MINIMUM
- MLO MAIN LUG ONLY
- MTD MOUNTED
- NOT IN CONTRACT
- NF NON FUSED
- PS PUBLIC SERVICE OF NH
- RIGID NON-METALLIC CONDUIT (POLYVINYL CHLORIDE)
- RMC RIGID GALVANIZED METAL CONDUIT
- SHEET SHEET
- TELE TELEPHONE
- TELE TELEVISION
- TYP TYPICAL
- UL UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED
- WON VERIZON / BELL ATLANTIC WITH GROUND CONDUCTOR
- WBA WEATHERPROOF
- WP

WHERE (2) DUPLEX RECEPTACLES ARE SHOWN NEAR EACH OTHER
 QUAD NOT ALLOWED



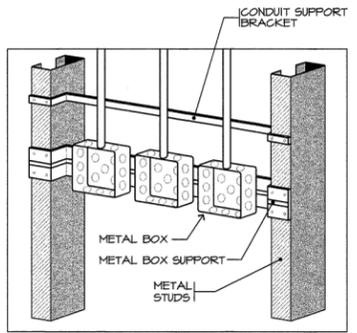
RECEPTACLE MOUNTING AT SINK DETAIL
NOT TO SCALE

NOTE:
 INTENT OF GROUND FAULT (GF) RECEPTACLES LOCATED NEAR TOILET LAVS IS TO HAVE RECEPTACLES AVAILABLE FOR USE @ THE LAV. ELECTRICAL CONTRACTOR SHALL CONFIRM FINAL LAV LOCATION, MIRROR SIZE AND OTHER EQUIPMENT PRIOR TO ROUGH-IN. CONFIRM FINAL ARRANGEMENT OF TOILET FIXTURES TO ENSURE THAT RECEPTACLE IS ADJACENT TO THE LAV, NOT ADJACENT TO OTHER PLUMBING FIXTURES



TYPICAL DEVICE MOUNTING HEIGHTS ELEVATION
NOT TO SCALE

- NOTES:**
- A. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR
 - B. WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE E.C. SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT
 - C. ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN FLUSH DEVICE BOXES NO SURFACE BOXES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT
 - D. E.C. SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS INCLUDING BACKSPASH, ON SITE WITH E.C. PRIOR TO INSTALLATION OF BOXES. ABOVE COUNTER DEVICES NOTED BY ()
 - E. INSTALL RECEPTACLES HORIZONTALLY, 4" ABOVE BASEBOARD RADIATION. REFER TO M - SERIES (DIV. 15) SHEETS FOR RADIATION LAYOUT
 - F. WHERE SHOWN BACK TO BACK, OFFSET BOXES IN STUBBAYS.

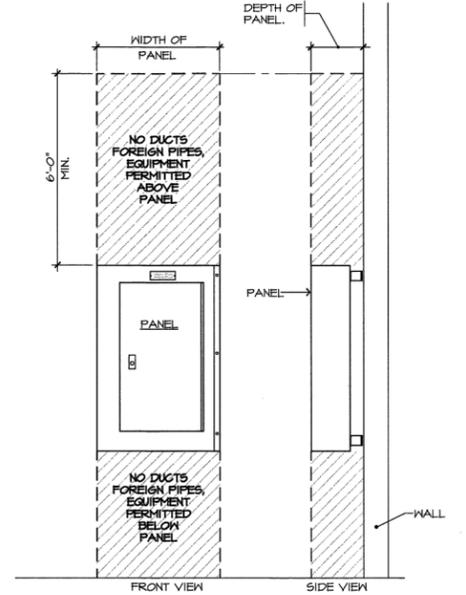


ELECTRICAL DEVICE BOX MOUNTING DETAIL
NO SCALE

- BOX MOUNTING DETAIL NOTES:**
1. PROVIDE FOR ALL MULTIPLE BOX INSTALLATIONS
 2. PROVIDE WHERE REQUIRED TO LOCATE BOXES IN SPECIFIED LOCATIONS OR CENTERED UNDER WINDOWS OR OTHER ARCHITECTURAL ELEMENTS
 3. REFER TO NOTES AND / OR ELEVATIONS ON ELECTRICAL AND ARCHITECTURAL SHEETS
 4. PROVIDE MANUFACTURED PRODUCT FOR ELECTRICAL BOX SUPPORT @ LOCATIONS REQUIRED
 5. SUPPORT PRODUCT MAY BE "FRONT OF BOX" STYLE

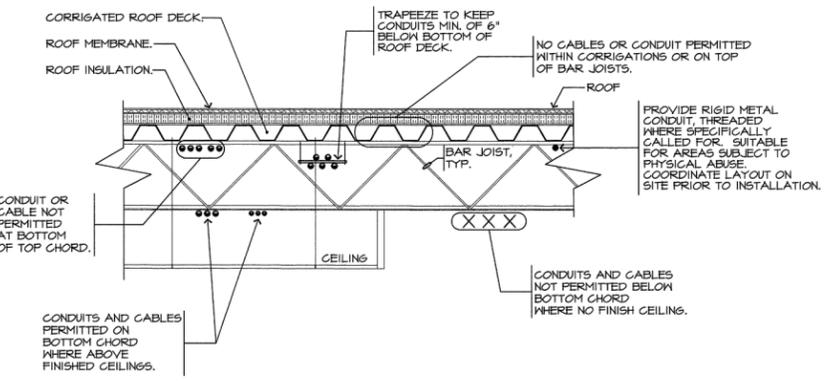
FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM CONTROL PANEL	FLUSH, 5' TO TOP
	FIRE ALARM REMOTE ANUNCIATOR	FLUSH, 5' TO TOP
	SYSTEM SMOKE DETECTOR	CEILING
	DUCT SMOKE REMOTE TEST	WALL, 42" AFF
	DUCT SMOKE DETECTOR	IN DUCT
	RATE OF RISE HEAT DETECTOR	CEILING
	FIXED HEAT DETECTOR	CEILING
	RATE OF RISE HEAT DETECTOR	CEILING
	MANUAL PULL STATION	WALL, 42" AFF, SEMI FLUSH
	HORN STROBE DEVICE CANDELLA RATING AS SHOWN	WALL, 80" AFF, SEMI FLUSH
	STROBE ONLY DEVICE CANDELLA RATING AS SHOWN	WALL, FLUSH, 80" AFF
	MIN HORN STROBE DEVICE CANDELLA RATING AS SHOWN	WALL, FLUSH, 80" AFF
	SPRINKLER FLOW SWITCH	BY SPRINKLER CONTRACTOR
	SPRINKLER TAMPER SWITCH	BY SPRINKLER CONTRACTOR
	SPRINKLER PRESSURE SWITCH	BY SPRINKLER CONTRACTOR

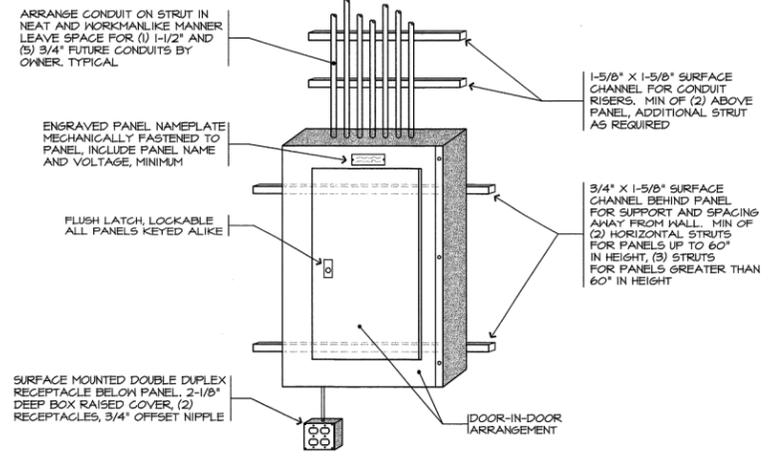


DEDICATED EQUIPMENT SPACE DETAIL
NOT TO SCALE

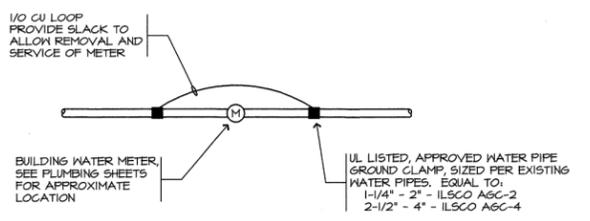
- NOTES:**
1. TYPICAL FOR SWITCHBOARDS, PANELBOARDS AND MOTOR CONTROL CENTERS.
 2. SEE N.E.C. art. 110.26.C.F.



CONDUITS/CABLES AT ROOF DECK DETAIL
NOT TO SCALE



SURFACE MOUNTED PANELBOARD DETAIL
NOT TO SCALE

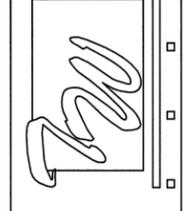


WATER METER BONDING JUMPER
NOT TO SCALE

LISTED EQUIPMENT NOTICE

ALL EQUIPMENT NEEDING ELECTRICAL POWER IS INTENDED AND SPECIFIED TO BE "UL" OR "CSA" LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER OF ANY EQUIPMENT NOT SO LISTED AND LABELED AND SHALL NOT PROCEED WITH ANY WIRING OF SUCH EQUIPMENT UNTIL REPLACEMENT OF EQUIPMENT OR DIRECTED IN WRITING BY ENGINEER. TYPICAL OF ALL DEVICES AND EQUIPMENT ON THIS PROJECT

TENNANT/WALLACE ARCHITECTS AIA PA
 MANCHESTER, NH 03101
 TEL: (603) 661-5955
 FAX: (603) 661-5904



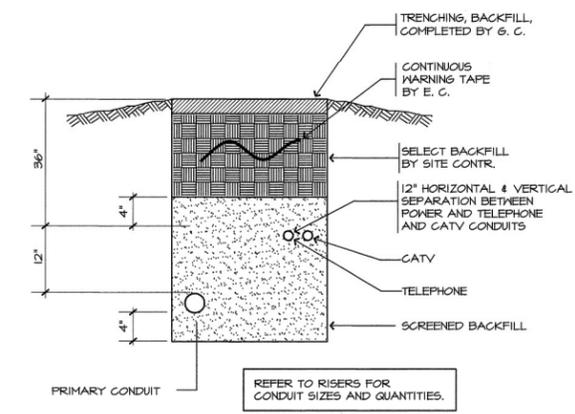
DOVER BUS FACILITY
 Dover, New Hampshire

project no. 05171
 drawn by CTS
 checked by WRW
 doc. date 05-25-06

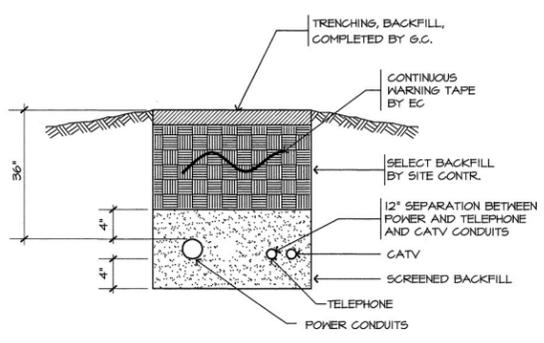
wv engineering associates inc. pa
 05171
 mechanical electrical consulting engineers
 po box 764 keene, new hampshire 03431
 603 352 1007 fax 352 1005

ELECTRICAL LEGEND & DETAILS

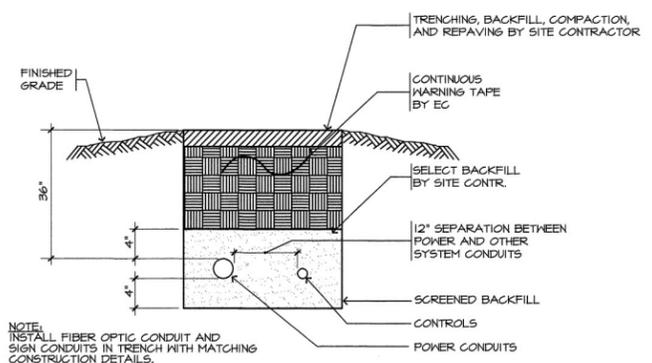
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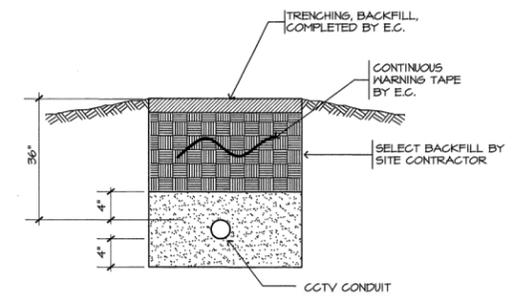
PRIMARY CONDUIT TRENCH DETAIL
NOT TO SCALE



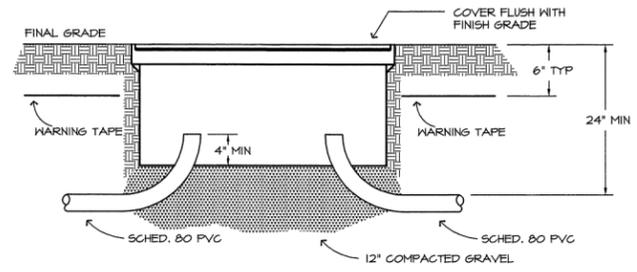
SECONDARY CONDUIT TRENCH DETAIL
NOT TO SCALE



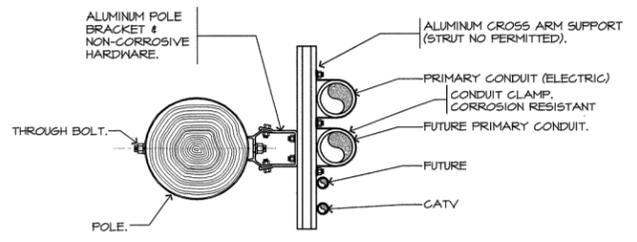
SECURITY GATE CONDUIT TRENCH DETAIL
NOT TO SCALE



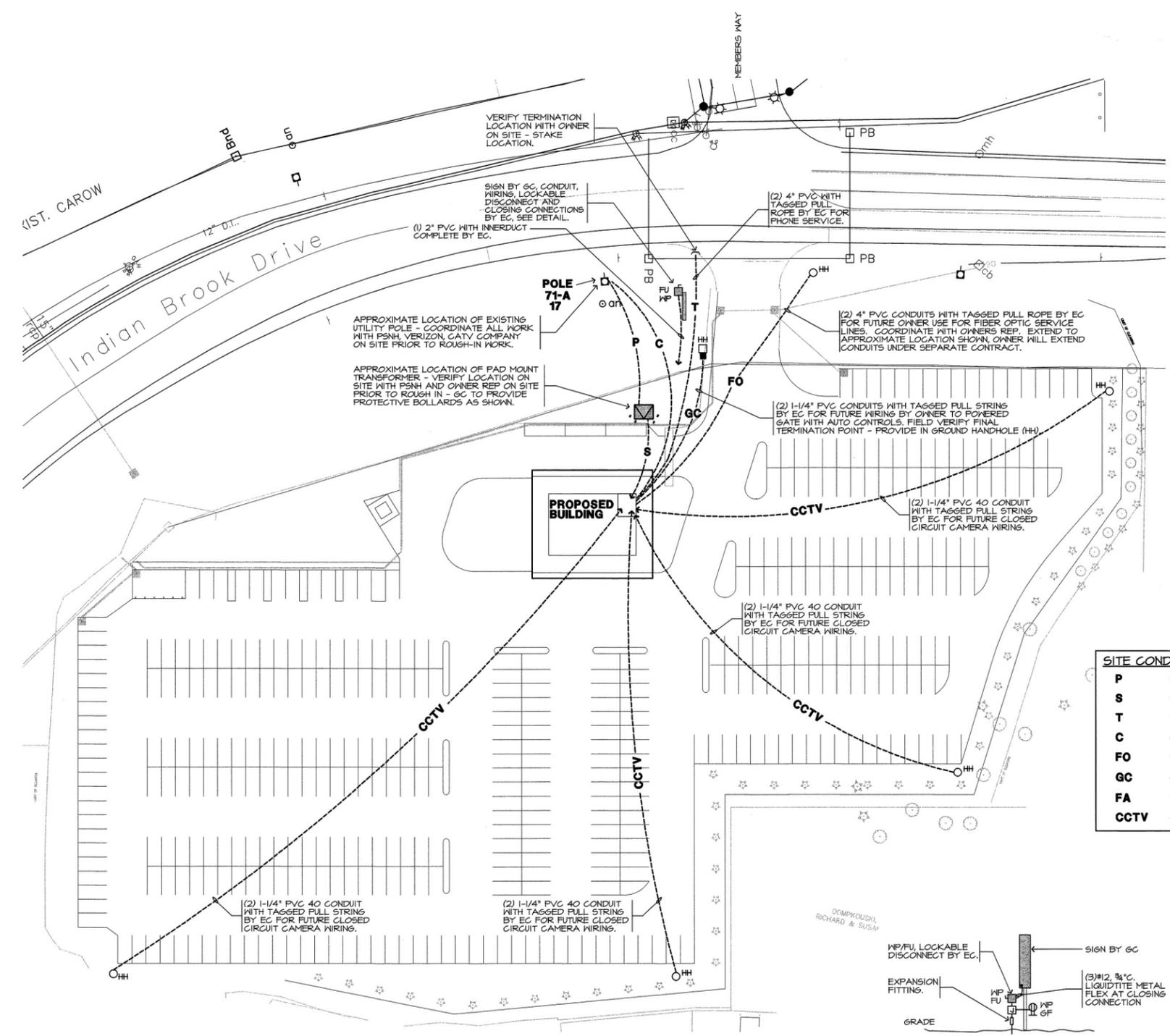
CCTV TRENCH SECTION
NOT TO SCALE



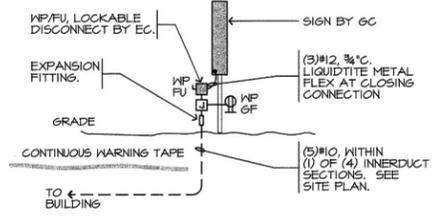
HANDHOLE DETAIL-- "HH"
NOT TO SCALE



PLAN @ POLE HARDWARE
NOT TO SCALE
TYP. @ 4' SPACING



ELECTRICAL SITE PLAN
SCALE: 1"=40'

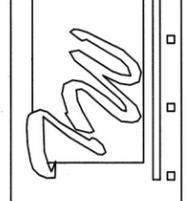


SIGN WIRING DETAIL
NOT TO SCALE

SITE CONDUIT LEGEND:

P	PRIMARY
S	SECONDARY
T	TELEPHONE
C	CATV
FO	FIBEROPTIC
GC	GATE CONDUITS
FA	FIRE ALARM
CCTV	CCTV

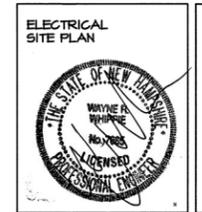
TENNANT/WALLACE ARCHITECTS AIA PA
MANCHESTER, NH 03101
TEL: (603) 664-5055
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DOVER BUS FACILITY
Dover, New Hampshire

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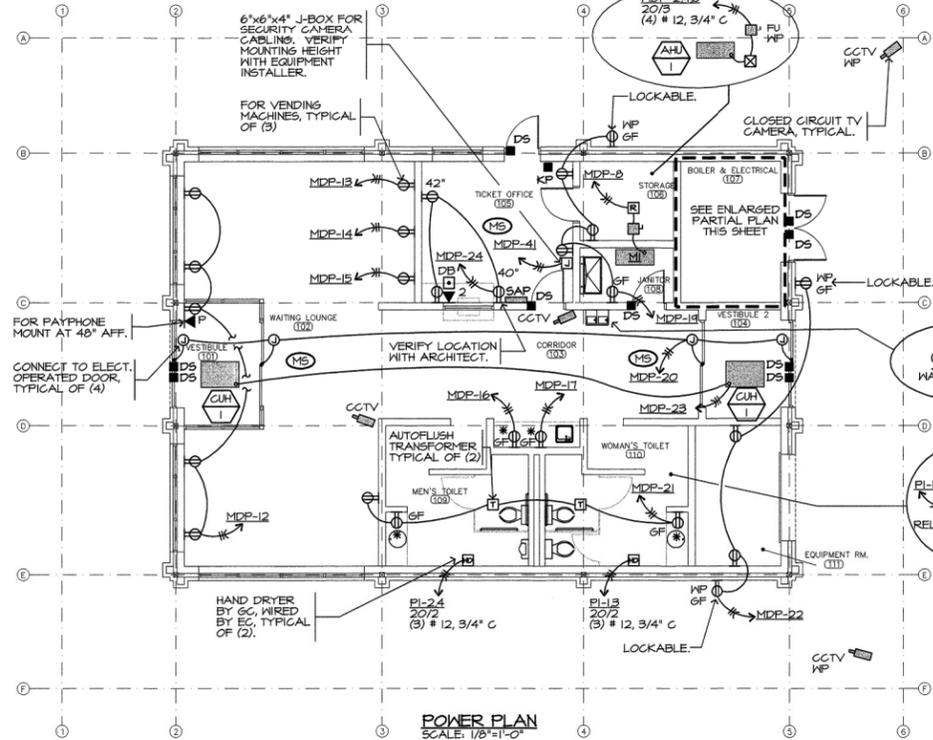
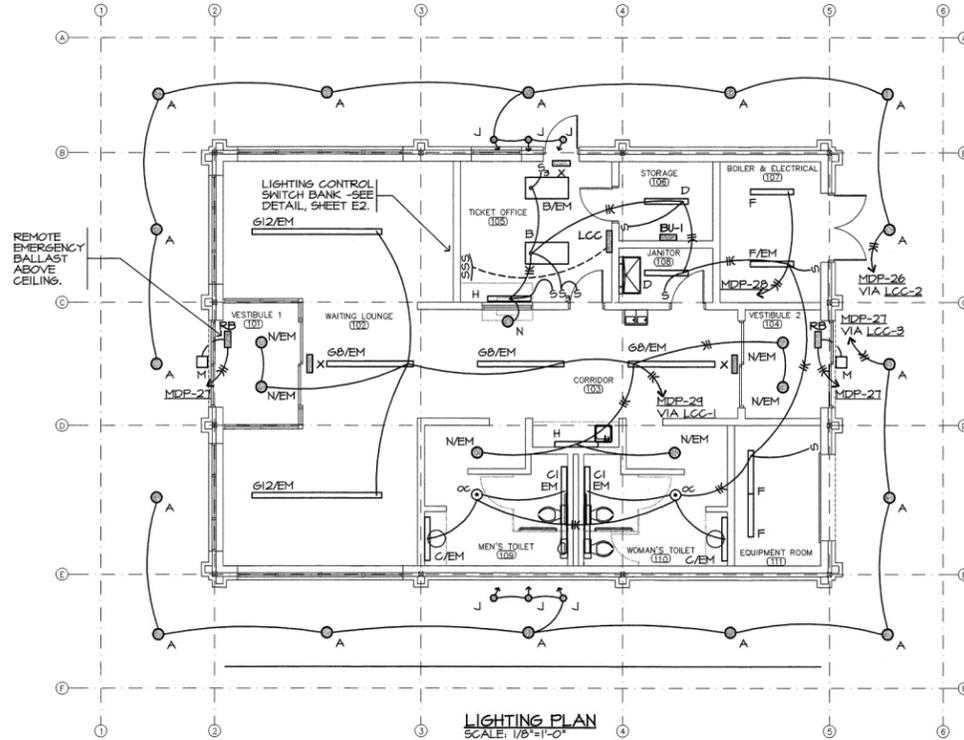
wv engineering associates inc. pa
05171
mechanical electrical consulting engineers
po box 769 keene, new hampshire 03431
603 352 7007 fax 352 7005



ES1

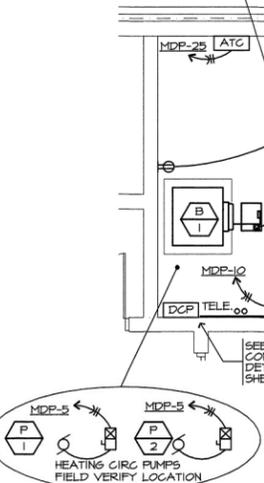
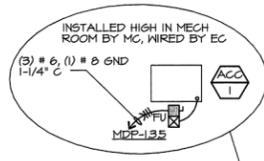
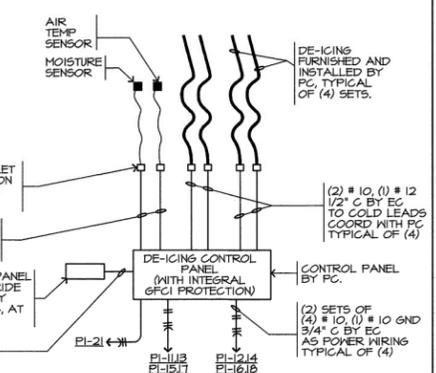
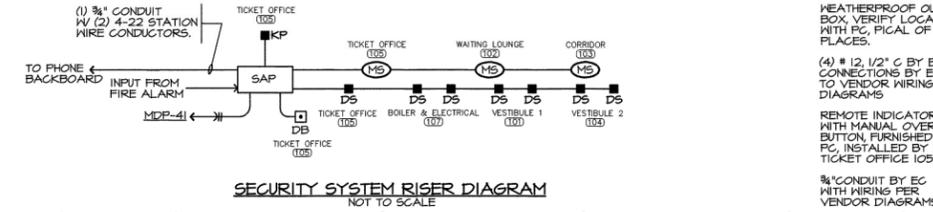
BATTERY UNIT WIRING NOTES:

1. WIRE BATTERY UNITS AND EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHES OR AUTOMATIC CONTROLS
2. WIRE BATTERY UNITS SERVING EXTERIOR EMERGENCY LIGHTING TO EXTERIOR LIGHTING CIRCUIT AHEAD OF AUTOMATIC CONTROLS
3. BATTERY UNITS BU-I SERVING EXTERIOR EMERGENCY LIGHTING SHALL BE UTILITY TYPE. INSTALLED IN UTILITY ROOMS AND INCLUDE TIME DELAY RELAY TO EXTEND OPERATING TIME AFTER RETURN OF NORMAL POWER BY 15 MIN TO PROVIDE COVERAGE DURING EXTERIOR LIGHTING RESTRIKE TIMES



SECURITY LEGEND:

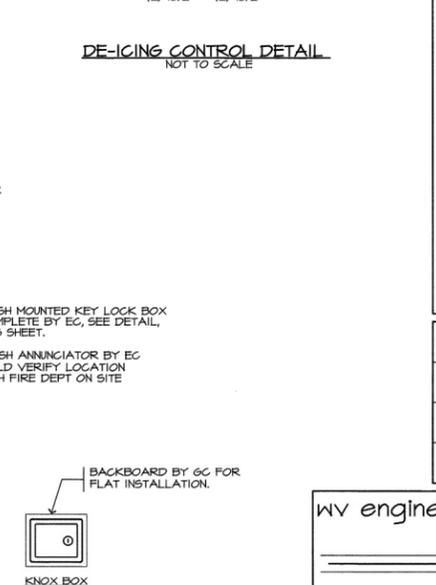
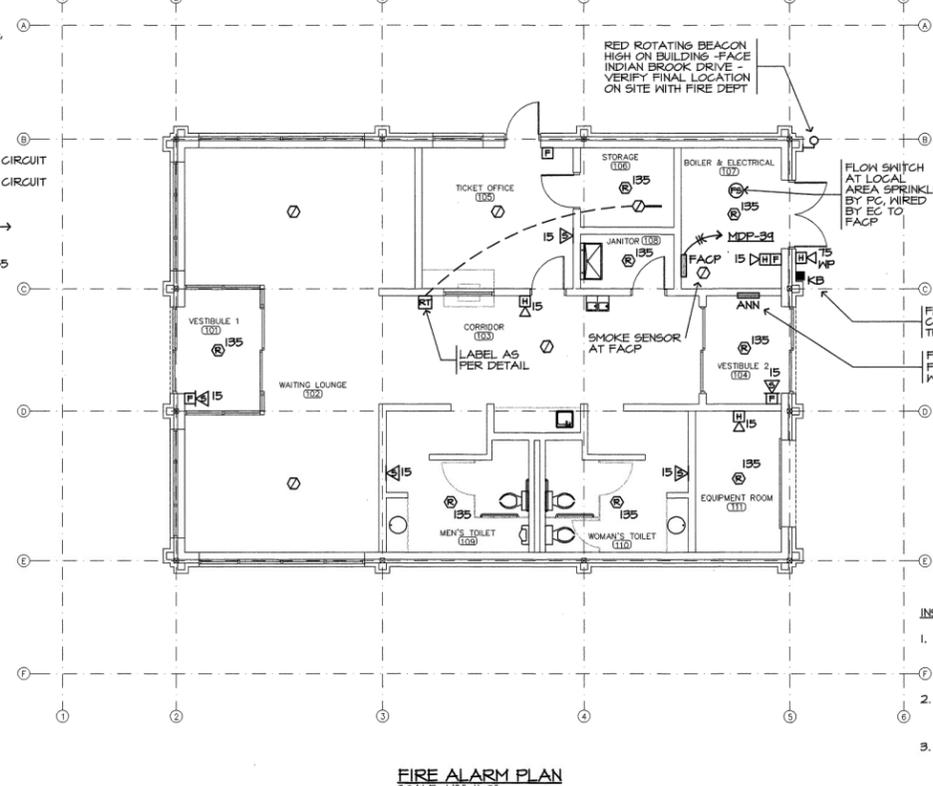
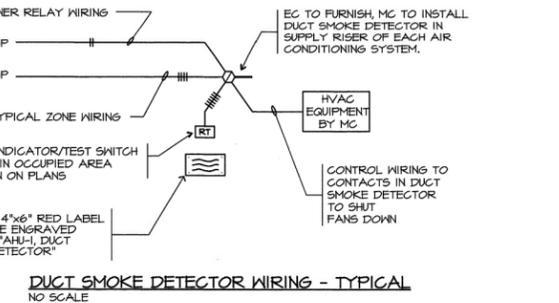
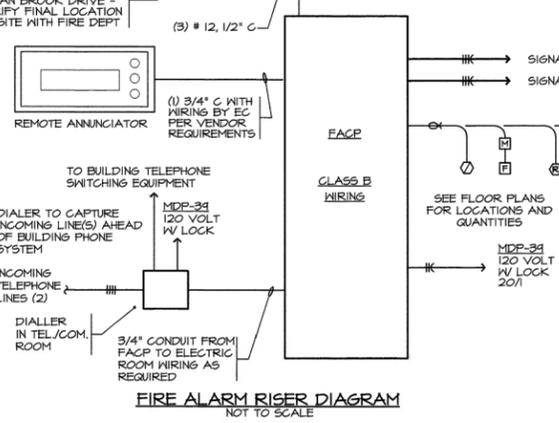
DS	DOOR SWITCH
MS	MOTION SENSOR
DB	DURESS BUTTON
SAP	SAP
KP	KEY PAD



NOTES:

1. LOAD SIGNAL CIRCUITS TO NO MORE THAN 80% BASED ON LAYOUTS TO ALLOW FOR FUTURE OWNER GROWTH/CAPACITY.
2. SIGNAL CIRCUITS TO BE FULLY SYNCHRONIZED.
3. VENDOR/CONTRACTOR TO ASSIGN ADDRESSES, LABEL DEVICES AND SIZE SIGNAL CIRCUIT PANELS BASED ON CAPACITY OF EQUIPMENT SELECTED.

BATTERIES FOR STANDBY
TO BE SIZED FOR 60 HOURS OF OPERATION FOLLOWED BY 5 MINUTES OF FULL ALARM. INCLUDE MIN OF 15% SPARE CAPACITY WITH FINAL BATTERY SELECTION. FULL CALCULATIONS TO BE SUBMITTED TO FIRE DEPT



- INSTALLATION NOTES**
1. FIELD VERIFY LOCATIONS FOR KNOX BOX ON SITE WITH LOCAL FIRE DEPARTMENT PRIOR TO APPLICATION OF SIDING OR ELECTRICAL ROUGHIN.
 2. PROVIDE SOLID/THROUGH BOLT ANCHORAGE FOR KNOX BOX PER MANUFACTURERS WRITTEN INSTRUCTIONS.
 3. PROVIDE FLUSH INSTALLATION. SET PLUMB, CAULK BEHIND TRIM RINGS AT INSTALLATION.

TENNANT/WALLACE ARCHITECTS AIA PA
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DOVER BUS FACILITY
Dover, New Hampshire

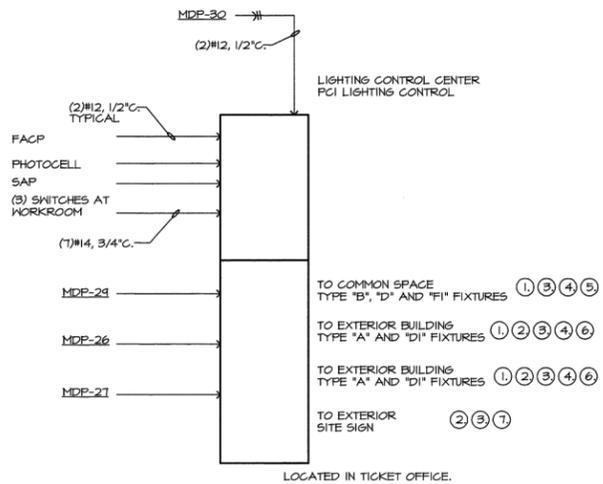
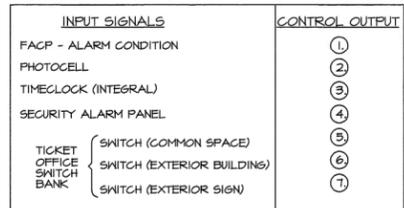
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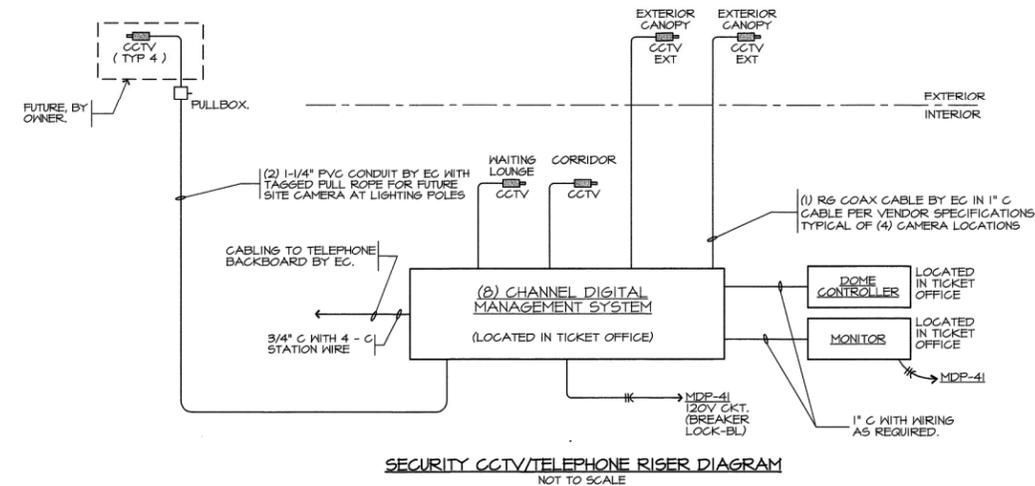
PANEL: MDP		VOLTAGE: 120/208		PHASE: 3		MAIN: 200 A - MLO		MCB	
TYPE: PANELBOARD <input checked="" type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input checked="" type="checkbox"/> FAULT RATING: 22,000 AIC									
LOCATION: BOILER/ELECT RM.		MOUNTING:				SURFACE			
DIRECTORY	TRIP	⌚	AΦ	BΦ	CΦ	⌚	TRIP	DIRECTORY	
ACCU	50/3	1	3000			2	20/3	AIR HANDLER - AHU-1	
--	--	3	3000			4	--	--	
--	--	5			3000	6	--	--	
TIMELOCK POWER	20/1	7	150			8	20/1	BOILER/ELECT. ROOM RECEPTACLES	
ELECTRIC WATER HEATER	30/2	9	2250			10	20/1	TELECOMM. RECEPTACLES	
--	--	11	150			12	20/1	WAITING LOUNGE/VESTIBULE RECEPTACLES	
(BL) VENDING MACHINE	20/1	13	1000			14	20/1	VENDING MACHINE (BL)	
(BL) VENDING MACHINE	20/1	15	1000			16	20/1	COUNTER RECEPTACLE (GF)	
(GF) COUNTER RECEPTACLE	20/1	17			360	18	20/1	MC RECEPTACLE (GF)	
EXTERIOR/STOR./JAN. RECEPTACLES	20/1	19	120			20	20/1	ELECTRIC DOORS (QTY. OF 4)	
MENS/MOMENS TOILETS RECEPTACLES	20/1	21		500		22	20/1	EXTERIOR RECEPTACLES EF, MOD	
CEILING CAB. HEATERS (2) CUH-15	20/1	23			600	24	20/1	TICKET OFFICE RECEPTACLES	
(BL) ATC POWER	20/1	25	800			26	20/1	EXTERIOR CANOPY LIGHTING (VIA LCC-2)	
EXTERIOR CANOPY LIGHTING (VIA LCC-3)	20/1	27		400		28	20/1	INTERIOR SERVICE AREAS LIGHTING	
INTERIOR PUBLIC AREAS LIGHTING (VIA LCC-1)	20/1	29			100	30	20/2	SPARE	
CIRC. PUMPS (P-1, P-2)	20/1	31	500			32	--	--	
SPARE	20/1	33		1400		34	20/2	SPARE	
(GF) SPARE	20/1	35			500	36	--	--	
(BL) BOILER (B-1)	20/1	37	1000			38	60/3	SUBPANEL "P1"	
(BL) FACP FIRE ALARM CONTR. PNL.	20/1	39		500		40	--	--	
(BL) SAF SECURITY ALARM PANEL	20/1	41		500		42	--	--	
CONNECTED LOAD			18230	18310	18630	NOTES			
DEMAND	70%		12761	12761	13041	SUITABLE FOR USE AS SERVICE EQUIPMENT - PROVIDE UL LABEL (GF) GROUND FAULT (BL) BREAKER LOCK KIT			
TOTAL DEMAND LOAD			38563						

PANEL: P1		VOLTAGE: 120/208		PHASE: 3		MAIN: 125 A - MLO		MCB	
TYPE: PANELBOARD <input checked="" type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input checked="" type="checkbox"/> FAULT RATING: 22,000 AIC									
LOCATION: BOILER/ELECT RM.		MOUNTING:				SURFACE			
DIRECTORY	TRIP	⌚	AΦ	BΦ	CΦ	⌚	TRIP	DIRECTORY	
WOMENS HAND DRYER	20/2	1	1200			2	20/2	MENS HAND DRYER	
--	--	3	1200			4	--	--	
SPARE	20/3	5			500	6	20/3	SPARE	
--	--	7	500			8	--	--	
--	--	9	500			10	--	--	
GUTTER DEICING	15/2	11			500	12	15/2	GUTTER DEICING	
--	--	13	500			14	--	--	
GUTTER DEICING	15/2	15			500	16	15/2	GUTTER DEICING	
--	--	17	500			18	--	--	
EXHAUST FAN (EF-1)	20/1	19	500			20	20/1	SPARE (GF)	
GUTTER SYSTEM DEICING CONTROL	20/1	21		500		22	20/1	SPARE (GF)	
SPARE	20/1	23		500		24	20/1	SPARE (GF)	
SPARE	20/1	25		500		26	20/1	SPARE (GF)	
SPARE	20/1	27		500		28	20/1	SPARE	
SPARE	20/1	29		500		30	20/1	SPARE	
SPARE	20/1	31		500		32	20/1	SPARE	
SPARE	20/1	33		500		34	20/1	SPARE	
SPARE	20/1	35		500		36	20/1	SPARE	
SPARE	20/1	37		500		38	20/1	SPARE	
SPARE	20/1	39		500		40	20/1	SPARE	
SPARE	20/1	41		500		42	20/1	SPARE	
CONNECTED LOAD			8400	8400	10000	NOTES			
DEMAND	70%		5880	5880	4400	SUITABLE FOR USE AS SERVICE EQUIPMENT - PROVIDE UL LABEL (GF) GROUND FAULT (BL) BREAKER LOCK KIT			
TOTAL DEMAND LOAD			16660						

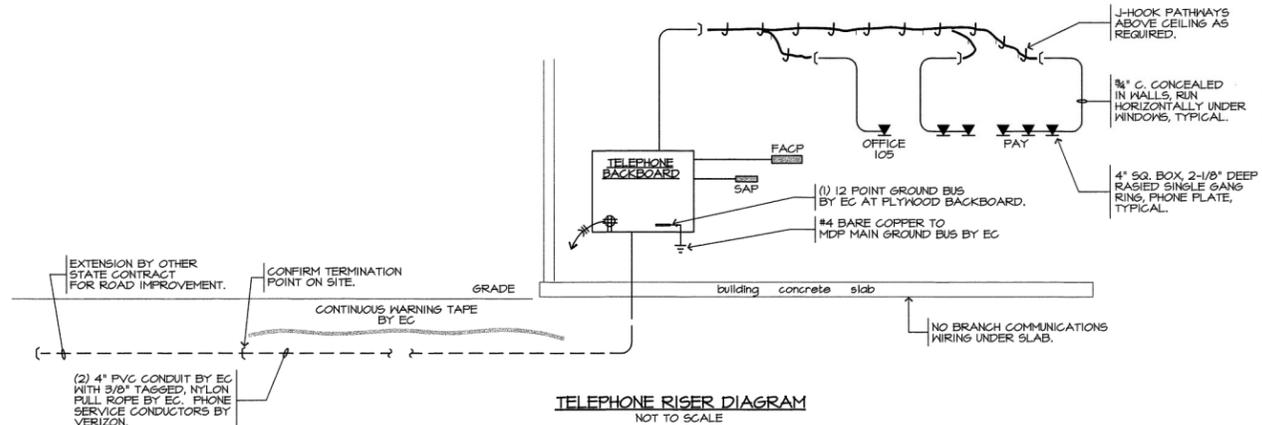
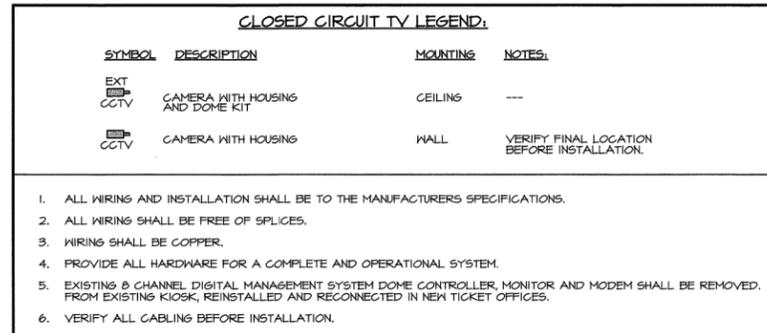


LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

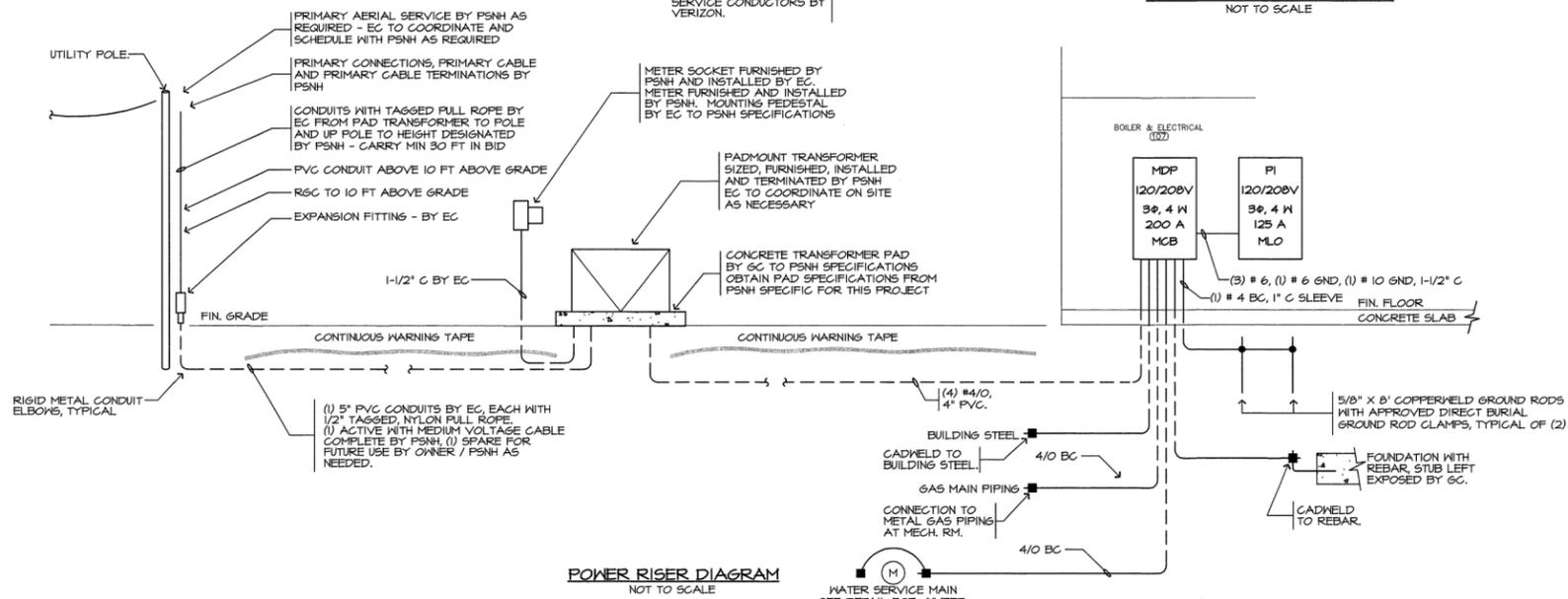
- NOTES:
1. THERE SHALL BE A SWITCH FOR EACH AREA NOTED. SWITCHES SHALL BE LABELED IN A PERMANENT FASHION AND SHALL BE LOCATED IN THE TICKET OFFICE.
 2. REGULAR (OCCUPIED HOURS) COMMON AREA LIGHTING SHALL BE CONTROLLED BY THE FIRE ALARM (FACP), TIMECLOCK AND SWITCHES.
 3. PROVIDE PROGRAMMING AND TRAINING FOR OWNERS, VERIFY TIMECLOCK SETTINGS WITH OWNER.
 4. LIGHTING CONTROL PANEL (LCC) SHALL BE PCI LITE KEEPER OR APPROVED EQUAL.



SECURITY CCTV/TELEPHONE RISER DIAGRAM
NOT TO SCALE



TELEPHONE RISER DIAGRAM
NOT TO SCALE



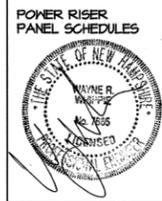
POWER RISER DIAGRAM
NOT TO SCALE

TENNANT/WALLACE
ARCHITECTS AIA PA
MANCHESTER, NH 03101
69 ANHERST ST.
TEL (603) 661-5055
FAX (603) 661-5054

DOVER BUS FACILITY
Dover, New Hampshire

project no. 05171
drawn by CTS
checked by WRW
doc. date 05-25-06

wv engineering associates
inc. pa
05171
mechanical electrical consulting engineers
po box 769 keene, new hampshire 03431
603 352 7007 fax 352 7005





STATE OF NEW HAMPSHIRE

NH DEPARTMENT OF ADMINISTRATIVE SERVICES

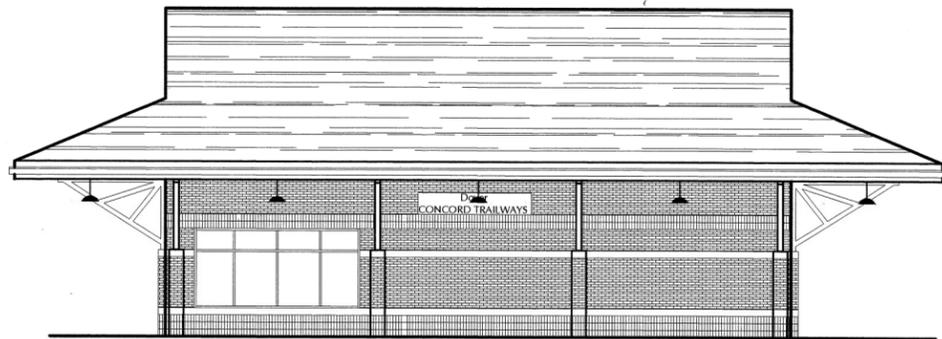
BUREAU OF PUBLIC WORKS



DOVER BUS FACILITY
NH DEPARTMENT OF TRANSPORTATION

ITEM 660.75 VOLUME II

DOVER, NH
PROJECT NUMBER 14287



GENERAL CODE INFORMATION

ENERGY CODE COMPLIANCE STATEMENT

I PETER TENNANT, NH LICENSED ARCHITECT #1804, CERTIFY THAT TO THE BEST OF MY ABILITY AND CONSISTENT WITH A REASONABLE LEVEL OF PROFESSIONAL CARE, THE INFORMATION IN THIS SET OF DRAWINGS INDICATES A STRUCTURE THAT IS IN COMPLIANCE WITH THE STATE OF NEW HAMPSHIRE COMMERCIAL AND INDUSTRIAL ENERGY CODE IN EFFECT AS OF THE DATE LISTED ON THESE DRAWINGS.

APPLICABLE CODES:
2003 NFPA 101 LIFE SAFETY CODE
2000 IBC

PROPOSED BUILDING
Area of Proposed Building = 2320 s.f.
No. Stories: 1
Bldg. Ht.: 23'-3" (30'-4" to peak of roof, 16'-2" to start of roof, 23'-3" = approx. height to mid point of roof.)

2000 International Building Code
Use Group: Assembly Group A-3 (Section 304)
Construction Type: Type III B (Section 602.5)

Table 503 - Allowable Height and Building Areas after 100% open perimeter increase (NH Revisions are indicated).

Basic: Ht.: 2 St.; 30 ft. Proposed OK
Area: 14,700 s.f. Proposed OK

Table 601 - Fire-Resistance Ratings of Building Elements

Construction Type III-B	Req./ Provided
Structural Frame:	0 hr. -
Bearing Walls:	
Exterior:	2 hr. - 2hr.
Interior:	0 hr. -
Non-Bearing Walls/Partitions:	
Exterior:	0 hr. -
Interior:	0 hr. -
Floor Construction:	0 hr. -
Roof Construction:	0 hr. -

Occupancy Load:
(Table 1003.2.2.2)
Floor Area:
Waiting Area = 1090 s.f./ 5 s.f. per occ. = 218 occ.
Office Area = 182 s.f./100 s.f. per occ. = 2 occ.
Accessory Spaces = 1048 s.f./300 s.f. per occ. = 4 occ.
TOTAL MAXIMUM ALLOWABLE = 224 occ.

Egress Capacity:
(Table 1003.2.3)
Egress required = 224 occ. x .2 in./occ. = 45 inches
Number of exits: 2 (Doors 01/02 and 05/06)
Exit Capacity:
Clear Exit Width
Door 01/02 46"
Door 05/06 46"
TOTAL WIDTH = 92"/2 in./occ. = 460 occ. > 224 OK

ADA COMPLIANCE STATEMENT

I PETER TENNANT, NH LICENSED ARCHITECT #1804, CERTIFY THAT TO THE BEST OF MY ABILITY AND CONSISTENT WITH A REASONABLE LEVEL OF PROFESSIONAL CARE, THE INFORMATION IN THIS SET OF DRAWINGS INDICATES A STRUCTURE THAT IS IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.



DRAWING LIST

- A 0.0 TITLE SHEET
- C1.0 ON-SITE SEPTIC SYSTEM PLAN
- C2.0 SEWER DETAILS
- C3.0 SITE LAYOUT & GRADING PLAN
- C4.0 SITE DETAILS
- C5.0 SITE DETAILS
- A1.0 FLOOR PLAN, WALL TYPES & GENERAL NOTES
- A1.1 SITE PLAN, LEGEND & ROOF PLAN
- A1.2 REFLECTED CEILING PLAN, NOTES & LEGEND
- A2.0 ELEVATIONS & LEGEND
- A3.0 BUILDING SECTIONS & LEGEND
- A4.0 WALL SECTIONS & LEGEND
- A5.0 ENLARGED PLANS: TOILETS & COUNTERS
- A6.0 INTERIOR ELEVATIONS & LEGEND
- A6.1 INTERIOR ELEVATIONS & LEGEND
- A7.0 STOREFRONT & DETAILS
- A7.1 DETAILS
- S1.0 GENERAL NOTES AND TYPICAL DETAILS
- S1.1 TYPICAL DETAILS
- S2.1 FOUNDATION PLAN
- S2.2 BOTTOM CHORD ROOF FRAMING PLAN
- S2.3 BOTTOM CHORD ROOF FRAMING PLAN
- S3.1 TRUSS ELEVATION
- S3.2 TRUSS ELEVATION
- P1 PLUMBING PLAN
- P2 PLUMBING ATTIC PLAN & DETAILS
- M1 MECHANICAL PIPING FIRST FLOOR
- M2 MECHANICAL DUCTWORK FIRST FLOOR
- M3 MECHANICAL SCHEDULES & DETAILS
- M4 MECHANICAL DETAILS
- E-0 ELECTRICAL LEGEND AND DETAILS
- E-1 ELECTRICAL FLOOR PLAN
- E-2 POWER RISER PANEL SCHEDULES
- E-S1 ELECTRICAL SITE PLAN

 ARCHITECT
TENNANT/WALLACE ARCHITECTS AIA PA
TELEPHONE: 603.669.5855
FAX: 603.669.3904
CONTACT: PETER TENNANT

 STRUCTURAL ENGINEER
FOLEY, BUHL, & ROBERTS, INC.
TELEPHONE: 603.622.4578
FAX: 603.622.4593
CONTACT: RICK STEWART

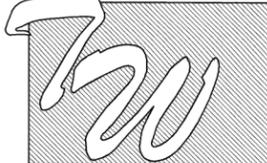
 CIVIL ENGINEER
THE LOUIS BERGER GROUP, INC.
TELEPHONE: 603.644.5200
FAX: 603.644.5220
CONTACT: RICK STEWART

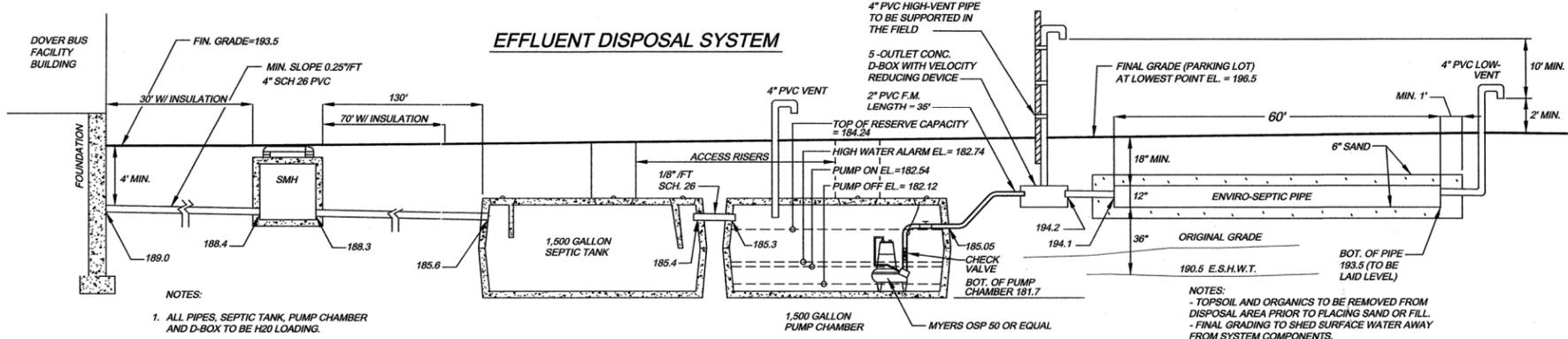
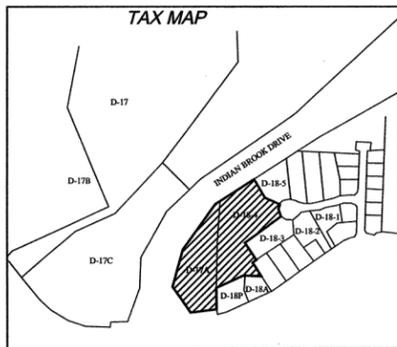
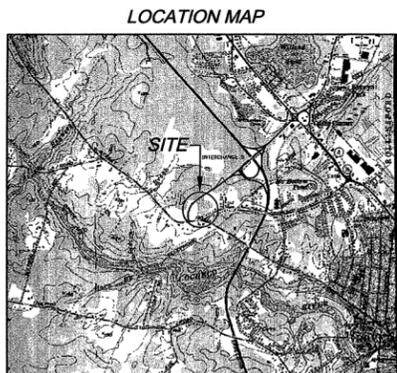
 MECHANICAL ENGINEER
WV ENGINEERING ASSOCIATES
TELEPHONE: 603.352.7007
FAX: 603.352.7005
CONTACT: DAVID DILL

 ELECTRICAL ENGINEER
WV ENGINEERING ASSOCIATES
TELEPHONE: 603.352.7007
FAX: 603.352.7005
CONTACT: DAVID DILL

APPROVED _____ DATE: _____
ADMINISTRATIVE SERVICES COMMISSIONER
RECOMMENDED _____ DATE: 7-11-06
Mark D. White
ADMINISTRATOR, BUREAU OF PUBLIC WORKS
APPROVED _____ DATE: July 14, 2006
John A. Moore
USING AGENCY COMMISSIONER
APPROVED _____ DATE: 6-30-06
J. William Dyer
OFFICE OF THE STATE FIRE MARSHALL
APPROVED _____ DATE: _____

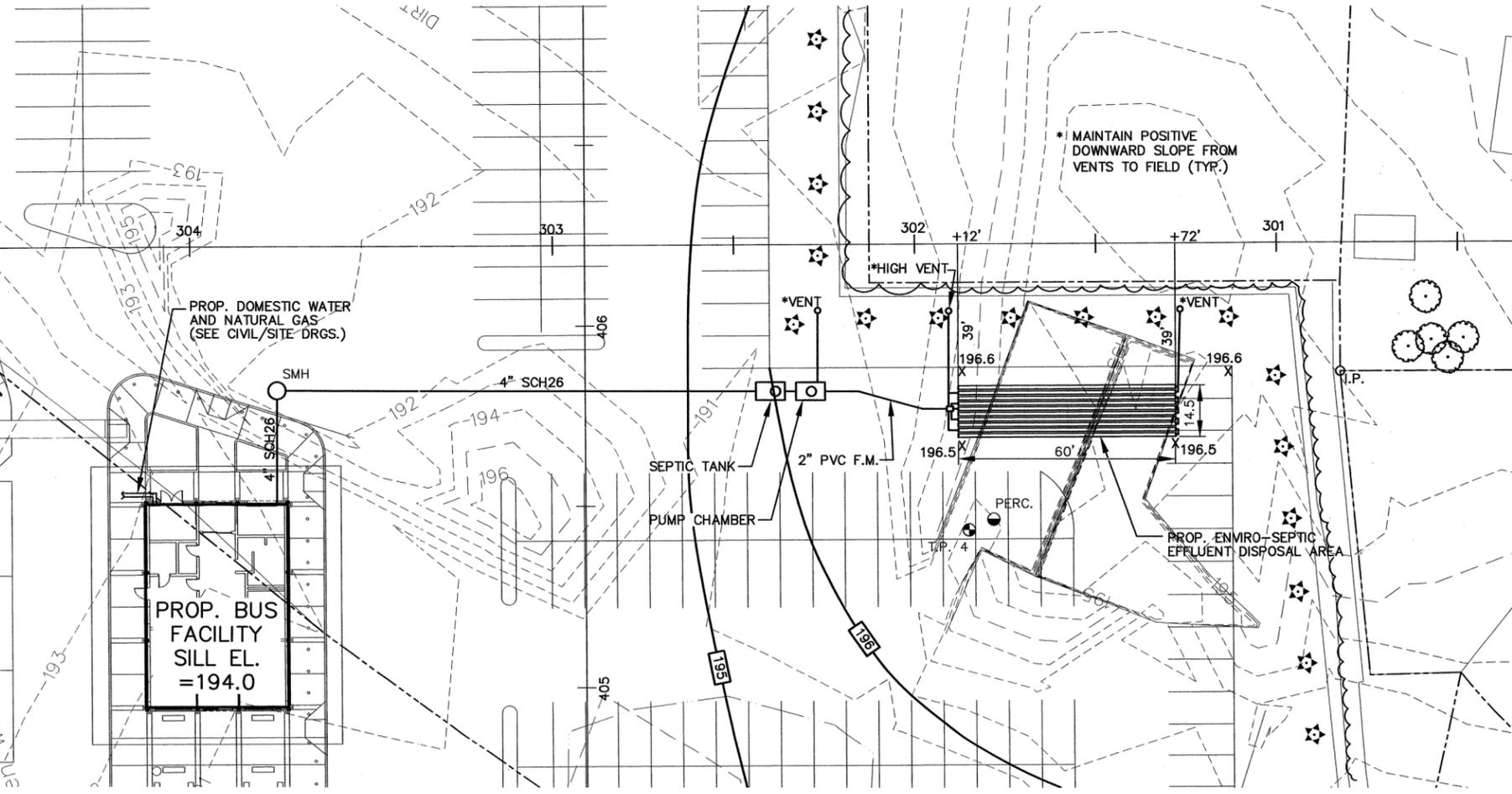
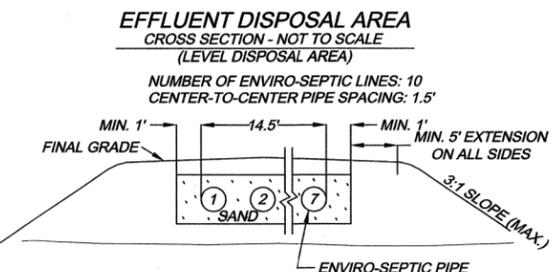
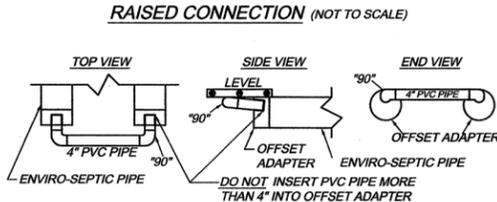
 STATE OF NEW HAMPSHIRE
DEPARTMENT OF ADMINISTRATIVE SERVICES
BUREAU OF PUBLIC WORKS
JOHN O. MORTON BUILDING
HAZEN DRIVE BOX 483 ROOM 5
CONCORD, NEW HAMPSHIRE 03302-0483
(603) 271-3516 FAX(603) 271-3515
PROJECT MANAGER: GREG GOUCHER, RA AGENCY CONTACT: _____
DOVER BUS FACILITY
DOVER, NEW HAMPSHIRE
TITLE SHEET PROJECT NO: 14287
DATE: MAY 25, 2006 A0.0

 TENNANT/WALLACE ARCHITECTS AIA PA
83 AMHERST STREET MANCHESTER, NH 03101
TEL (603) 669 5855 FAX (603) 669 3904



- NOTES:
1. ALL PIPES, SEPTIC TANK, PUMP CHAMBER AND D-BOX TO BE H20 LOADING.
 2. INSTALL 2" INSULATION OVER PIPE (SEE DETAIL).
 3. PLACE ALL MANHOLES AND TANKS ON 6" CRUSHED STONE (1 1/2" MAX).
 4. USE SANITARY SEWER MANHOLE TOP FOR ACCESS RISERS TO TANKS (SEE DETAIL).

- NOTES:
- TOPSOIL AND ORGANICS TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
 - FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS.



- LEGEND:
- TEST PIT LOCATION AND NUMBER
 - PERC. PERCOLATION TEST LOCATION
 - PROPERTY LINES
 - BUILDING SETBACK LINES
 - PROPOSED GRADE
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT GRADE
 - EXISTING CONTOUR
 - E.S.H.W.T. ESTIMATED SEASONAL HIGH WATER TABLE
 - EDGE OF PROPOSED TREE LINE

- DATE: 5/4/06
 PERC. TEST: 15 MIN. / INCH
 DATE: 5/4/06
 TEST PIT: #4

TEST PIT TP # 4

6"	SILTY LOAM 10YR. 3/2 DARK BROWN, FRIABLE, FEW ROOTS,
14"	10YR. 5/6 LOAMY SAND, YELLOWISH BROWN WITH 5% STONE FRIABLE, FEW ROOTS
22"	FINE SILTY LOAM 2.5YR 5/2, 2.5YR 3/2 REDOX CONC, PALE BROWN TRACE FINES
54"	COARSE SAND, GRANULAR, 10YR. 5/6 PALE YELLOWISH BROWN, 2.5YR 6/4 LIGHT GRAY DEPL, 7.5YR 5/8 DARK RED MOTTLES



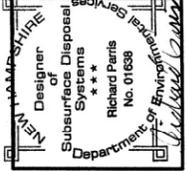
- ENVIRO-SEPTIC NOTES
- 1) SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. ROUTE 117 - PO BOX 617 SUGAR HILL, NH 03585 - PHONE 1-800-473-5298 - WWW.PRESBYENVIRONMENTAL.COM
 - 2) MINIMUM OF 6" OF MEDIUM TO COARSE WASHED SAND WITH LESS THAN 2% PASSING A # 200 SIEVE REQUIRED AROUND CIRCUMFERENCE OF ENVIRO-SEPTIC PIPES. EFFECTIVE PARTICLE SIZE IS .5mm - 2mm. SEE PARK AND RIDE TYPICAL SECTION FOR SUBBASE MATERIALS.
 - 3) INSTALLER SHALL CONTACT DIG SAFE PRIOR TO CONSTRUCTION.
 - 4) DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
 - 5) NO DRAINS, HOT TUBS, SAUNAS, GARBAGE DISPOSALS ETC. SHALL BE INCORPORATED INTO THIS SYSTEM UNLESS OTHERWISE SPECIFIED.
 - 6) MAINTENANCE: RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
 - 7) THIS DOCUMENT IS FOR THE CONSTRUCTION OF THE EFFLUENT DISPOSAL SYSTEM SHOWN. ANYONE USING INFORMATION FROM THIS DOCUMENT FOR ANY OTHER PURPOSE DOES SO AT THEIR OWN RISK.
 - 8) SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH ENV-WS 1000. "APPROVAL FOR CONSTRUCTION" IS VALID FOR 4 YEARS FROM DATE OF ISSUE.

- DESIGN CRITERIA
- 415 PARKING SPACES @ 2 GALS. PER SPACE: 830GPD
 - INFILTRATION: 42 GPD
 - TOTAL: 872 GPD
 - PERCOLATION RATE: 15 MIN./INCH
 - ENVIRO-SEPTIC PIPE REQUIRED: 575.5 LINEAR FEET
 - ENVIRO-SEPTIC PIPE PROVIDED: 600 LINEAR FEET
 - INSTALL 10 LINES OF ENVIRO-SEPTIC PIPE 60' LONG
 - SEPTIC TANK VOLUME REQUIRED: 1,310 GALLONS
 - SEPTIC TANK VOLUME PROVIDED: 1,500 GALLONS
 - INSTALL A 1,500 GALLON CONCRETE SEPTIC TANK ALL PRECAST CONCRETE PRODUCTS SHALL BE MANUFACTURED BY: MICHE CORP. HENNIKER, NH (OR EQUAL)
 - NO PRODUCT SUBSTITUTIONS PERMITTED WITHOUT PRIOR APPROVAL OF DESIGNER.

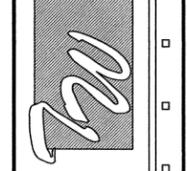
- GENERAL NOTES:
1. PARCEL REFERENCE: DOVER, NH. MAP D, SHT. 2, LOT D-17A & D-18-4.
 2. TOTAL AREA OF PARCEL IS 3.49 AC. (LOT 17A), 3.38 AC. (LOT 18-4).
 3. LOT IS TO BE SERVED BY CITY WATER AND SUBSURFACE SEWAGE DISPOSAL SYSTEM TO BE ON-SITE.
 4. ALL PIPE PENETRATIONS INTO STRUCTURES AND TANK JOINTS SHALL BE SEALED WITH A NON-SHRINK HYDRAULIC CEMENT (NOT ROOF TAR) SO AS TO BE WATERTIGHT IN ACCORDANCE WITH ENV-WS 1010.09.
 5. SOIL MAPPING FROM THE LATEST PUBLICATION OF THE N.R.C.S. SOIL SURVEY, SUGGESTS THE SUBJECT PARCEL CONSISTS OF THE FOLLOWING MAPPING UNITS:
 HcB - HOLLIS-CHARLTON FINE SANDY LOAM, 3 TO 8% SLOPES
 HaB - HINKLEY LOAMY SAND, 3 TO 8% SLOPES
 C1B - CHARLTON FINE SANDY LOAM, 3 TO 8% SLOPES
 6. MAXIMUM SOIL LOADING FOR LOT:
 MAXIMUM GALLONS PER DAY BASED ON A COMPOSITE FACTOR: 8,163GPD, PROVIDED: 872GPD.
 7. REPLACEMENT OF SYSTEM TO BE DONE IN KIND WHEN AND/OR IF NEEDED.
 8. NEAREST SURFACE WATER IS GREATER THAN 75' AWAY.

- PUMP DATA:
- BRAND: MYERS OSP50 FROM PRESCOTT Co., OR EQUIV. (HEADS TO 25').
 PIPE SIZE: 2" WITH VELOCITY REDUCING DEVICE IN THE D-BOX.
 PUMP CAPACITY AT TOTAL HEAD OF 13': 47 GPM
 7 MINUTE PUMP CYCLES @ 207 GAL PER CYCLE PUMPS 4 TIMES PER DAY.
 THE PUMP WILL BE EQUIPPED WITH A COMPATIBLE CONTROL PANEL WITH ALARM TO BE INSTALLED IN THE BOILER ROOM.
 THE ALARM SYSTEM AND PUMP SHALL BE ON SEPARATE 115V ELECTRICAL CIRCUITS.
 THE PUMP CHAMBER WILL BE VENTED AND WATER-TIGHT.

PREPARED BY: RCP
 CHECKED BY: TCH



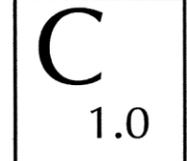
TENNANT/WALLACE ARCHITECTS AIA PA
 83 AMHERST STREET
 MANCHESTER, NH 03101
 TEL (603) 669 8855 FAX (603) 669 3904



On-Site Septic Design Plan
DOVER BUS FACILITY
DOVER, NH

ON-SITE SEPTIC SYSTEM PLAN

MAY 25, 2006



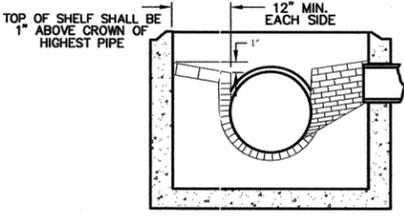
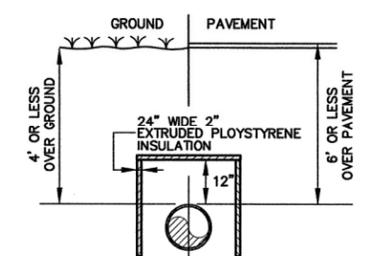
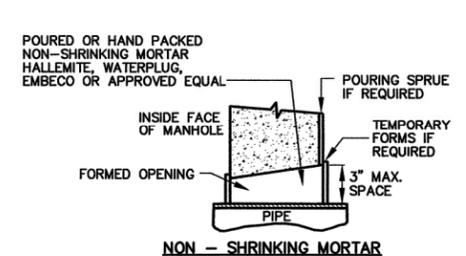
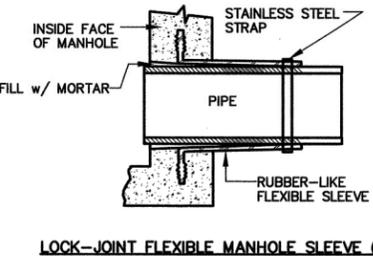
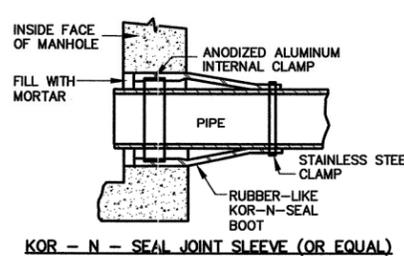
DESIGN INTENT:
 BOTTOM OF EFFLUENT DISPOSAL AREA TO BE SET NO LOWER THAN 24" ABOVE THE HIGHEST EXISTING GRADE OF 191.5 TO MAINTAIN A MINIMUM 36" SEPARATION FROM E.S.H.W.T.

THE Louis Berger Group, Inc.
 1001 Elm Street, Suite 300
 Manchester, New Hampshire 03101
 Tel 603 644 5200
 Fax 603 644 5220
 www.LouisBerger.com

PLOTTED: 06/12/06 12:05PM BY: RCP
 LAST SAVED: 06/12/06 12:05PM BY: RCP
 DRAWING: V:\560_DOVER_BUS_FACILITY\CADD\PLANSET\560_SEPTIC-SOUTH.DWG [SEPTIC-C-PLAN]

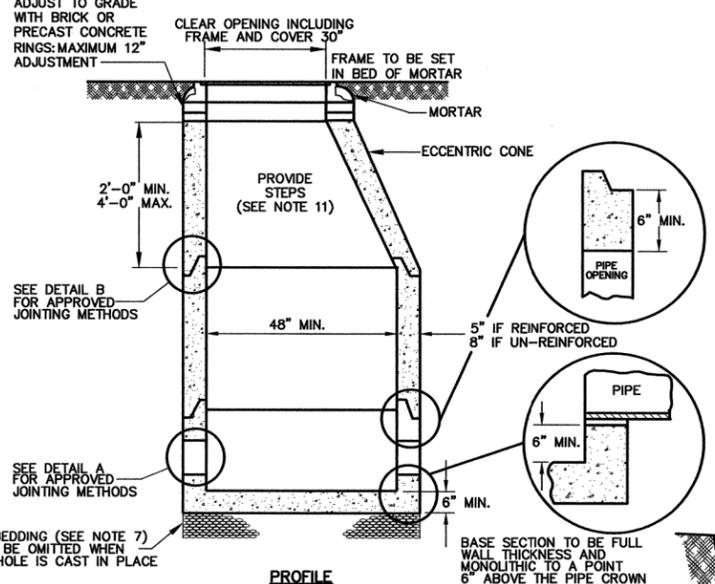
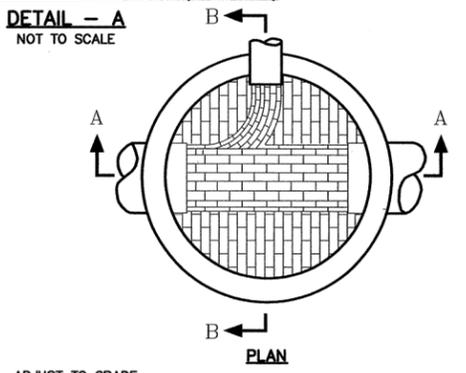
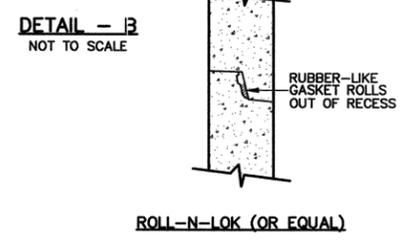
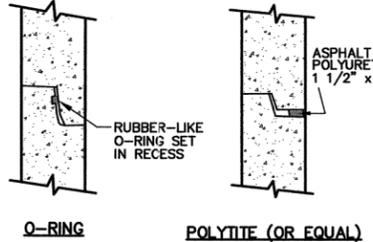
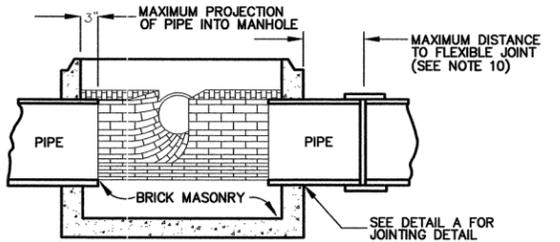
STANDARD MANHOLE NOTES

- IT IS THE INTENTION** THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH, AND LEAK PROOF QUALITIES CONSIDERED NECESSARY BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE, AND TO PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
 - BARRELS AND CONE SECTIONS** SHALL BE PRECAST REINFORCED.
 - LEAKAGE TEST:** SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS
 - PRECAST CONCRETE** BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
 - INVERTS AND SHELVES:** MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRICTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
 - FRAMES AND COVERS:** MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) LETTER "S" FOR SEWERS AND "D" FOR DRAINS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 - BEDDING:** SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33, STONE SIZE NO. 67.
 100% PASSING 1 INCH SCREEN 0-10% PASSING #4 SIEVE
 90-100% PASSING 3/4 INCH SCREEN 0-5% PASSING #8 SIEVE
 20-55% PASSING 3/8 INCH SCREEN
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.
 - CONCRETE:** FOR CHIMNEY SUPPORT SHALL CONFORM TO THE NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS STANDARD SPECIFICATION REQUIREMENTS FOR CLASS A (3000#) CONCRETE, AS FOLLOWS:
 CEMENT: 6.0 BAGS PER CUBIC YARD
 WATER: 5.75 GALLONS PER BAG CEMENT
 MAXIMUM SIZE OF AGGREGATE: 1 INCH
 - SHALLOW MANHOLE:** IN LIEU OF A CONE SECTION, WHEN THE MANHOLE IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H-20 LOADS MAY BE USED.
 - FLEXIBLE JOINTS:** A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:
 RCP AND CI PIPE - ALL SIZES - 48"
 AC AND VC PIPE - UP THROUGH 12" DIA. - 18"
 AC AND VC PIPE - LARGER THAN 12" DIA. - 36"
 DI PIPE - NONE REQUIRED
 PVC (ASTM 3034) - UP THROUGH 15" DIA. - NONE REQUIRED
 PVC (ASTM F679) - LARGER THAN 15" DIA. - 48"/60"
 PVC (ASTM F789) - ALL SIZES - 48"/60"
 ABS (ASTM D2680) - ALL SIZES - SAME AS VC ABOVE
 - MANHOLE STEPS** SHALL BE INSTALLED UNDER THE FOLLOWING CONDITIONS:
 1. THE STEPS SHALL BE MANUFACTURED OF 5/8 INCH ROUND STAINLESS STEEL OR FORGED ALUMINUM ALLOY. THEY SHALL BE SHAPED SO THAT THEY CANNOT BE PULLED OUT OF THE CONCRETE WALL IN WHICH THEY ARE EMBEDDED.
 2. THE STEPS SHALL BE EMBEDDED IN THE CONCRETE BY THE MANUFACTURER DURING MANUFACTURE OR IMMEDIATELY FOLLOWING REMOVAL OF THE FORMS. SECURING THE STEPS WITH MORTAR IN DRILLED OR CAST HOLES, WILL NOT BE ACCEPTABLE.
 3. THE STEPS SHALL BE OF THE DROP TYPE WITH A DEPRESSED SECTION FOR HANDHOLD, APPROXIMATELY 14" x 10" IN DIMENSION.
 - HORIZONTAL JOINTS** BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF AN OVERLAPPING TYPE, WHICH SHALL, IN GENERAL, DEPEND FOR WATER-TIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE SEALANT.
 - PIPE TO MANHOLE JOINTS** SHALL BE AS FOLLOWS:
 A. ELASTOMERIC, RUBBER, SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES.
 B. JOINTS AT THE MANHOLE MAY BE CAST INTO WALL OR SECURED WITH STAINLESS STEEL CLAMPS, JOINTS AT THE PIPE SHALL BE SECURED WITH STAINLESS STEEL CLAMPS.
 C. ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING.
 D. NON-SHRINK GROUTED JOINTS WHERE WATERTIGHT BONDING TO THE MANHOLE AND PIPE CAN BE OBTAINED.
 - ALL GASKETS AND SEALANTS** SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS
- REFERENCE: "STANDARDS OF DESIGN FOR SEWERAGE AND WASTE WATER TREATMENT FACILITY", DEPT OF ENVIRONMENTAL SERVICES, DATED: 7-90

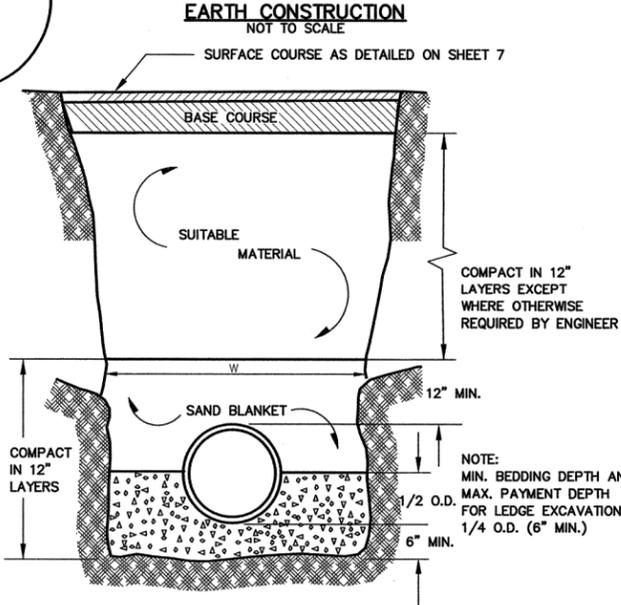
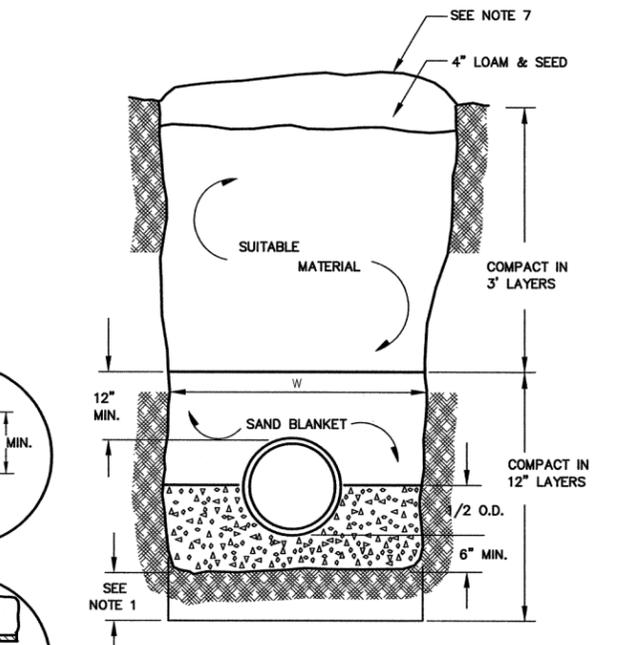


NOTE: INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST

NOTE: CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE.



SANITARY SEWER MANHOLE
NOT TO SCALE

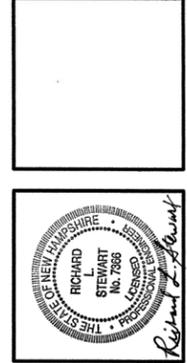


STANDARD TRENCH NOTES:

- ORDERED EXCAVATION OF UNSUITABLE MATERIAL** BELOW GRADE: BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS.
- BEDDING:** SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.
 100% PASSING 1 INCH SCREEN 0-10% PASSING #4 SIEVE
 90-100% PASSING 3/4 INCH SCREEN 0-5% PASSING #8 SIEVE
 20-55% PASSING 3/8 INCH SCREEN
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1 1/2 INCH SHALL BE USED.
- SAND BLANKET:** CLEAN SAND FREE FROM ORGANIC MATTER SO GRADED THAT 90-100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE.
- SUITABLE MATERIAL:** IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER 6" IN LARGEST DIMENSION, OR ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
- BASE COURSE:** IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION.
- W = MAXIMUM ALLOWABLE TRENCH WIDTH** TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES, FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.

STANDARD TRENCH NOTES CONT'D:

- FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDKED TO A HEIGHT OF SIX (6) INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 psi) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:
 CEMENT: 6.0 BAGS PER CUBIC YARD
 MAXIMUM SIZE OF AGGREGATE: 1 INCH
 WATER: 5.75 GALLONS PER BAG CEMENT
 - WATER LINES:** SEWERS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM WATER MAINS. WHENEVER SEWERS CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED OF SDR25 P.V.C. PIPE FOR A MINIMUM OF 9 FEET EACH SIDE OF THE CROSSING. VERTICAL SEPARATION OF THE SEWER AND WATER MAIN CROSSING SHALL NOT BE LESS THAN 18 INCHES. JOINTS FOR THE SEWER PIPE SHALL BE TESTED AT 25 P.S.I.G. FOR GRAVITY SEWERS WITH ZERO LEAKAGE AND 1.5 TIMES THE WORKING PRESSURE FOR FORCE MAINS WITH ZERO LEAKAGE.
 - IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
- REFERENCE: "STANDARDS OF DESIGN FOR SEWERAGE AND WASTE WATER TREATMENT FACILITY", DEPT OF ENVIRONMENTAL SERVICES, DATED: 7-90



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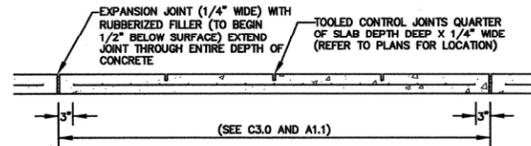
DOVER BUS FACILITY DOVER, NH

SEWER DETAILS
 MAY 25, 2006

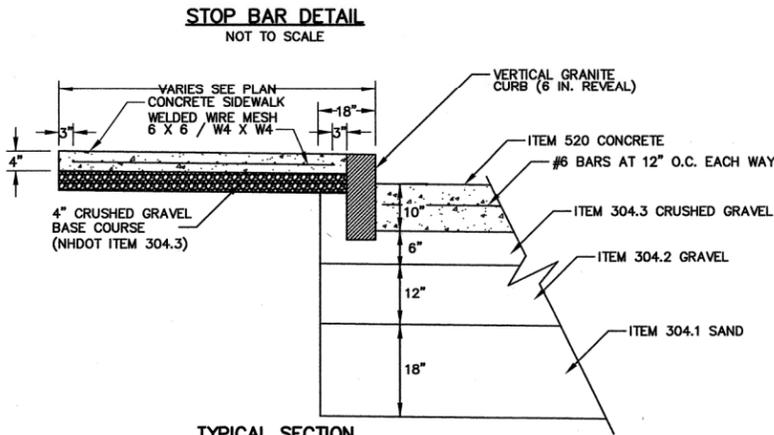
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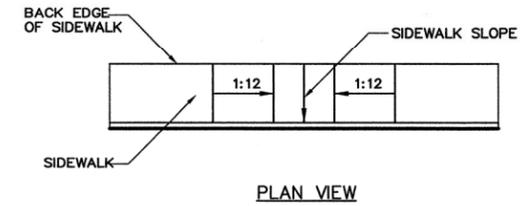
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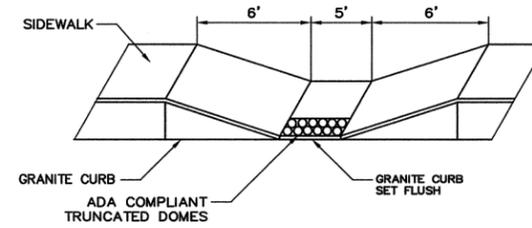
LONGITUDINAL SECTION
TYPICAL CONCRETE DETAIL
NOT TO SCALE



TYPICAL SECTION
CONSTRUCT IN ACCORDANCE WITH NHDOT ITEM #608



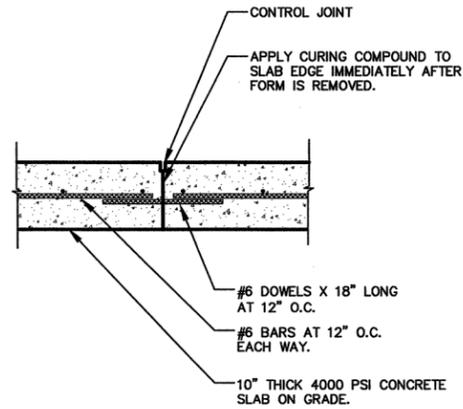
PLAN VIEW



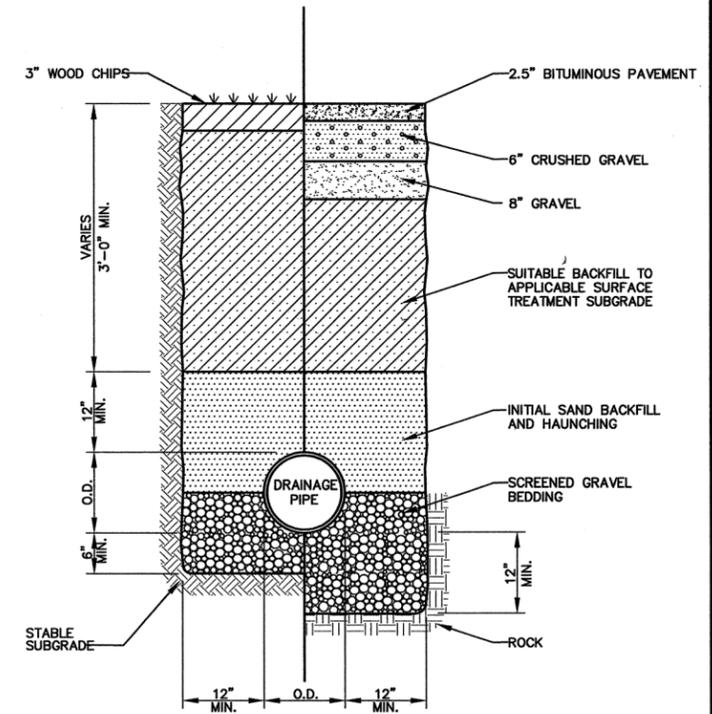
PERSPECTIVE VIEW

PEDESTRIAN RAMP
NOT TO SCALE

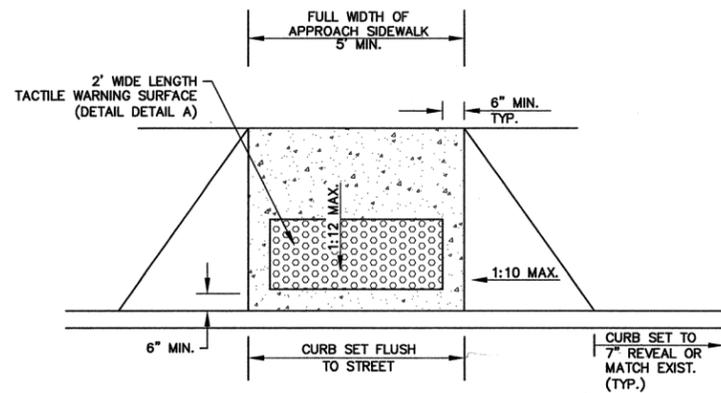
- ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ACI-318 AND THE INTERNATIONAL BUILDING CODE "IBC". THE STATE DESIGN CODE SHALL GOVERN SHOULD THERE BE A CONFLICT BETWEEN THE TWO CODES.
- ALL CONCRETE EXPOSED TO EXTREME WHETHER OR POSSIBLE FREEZING / THAWING ACTION SHALL BE AIR ENTRAINED BASED ON THE SPECIFICATIONS.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH TYPE I OR TYPE II PORTLAND CEMENT. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS f'c IN 28 DAYS.
 - 10" THICK SLAB ON GRADE..... 4000 PSI
 - SIDEWALKS AND OTHER SLABS ON GRADE..... 3000 PSI
- CONSTRUCTION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON DETAILS.
- CALCIUM CHLORIDE IS NOT TO BE USED IN ANY CONCRETE MIX.
- MAXIMUM SLUMP OF 4 INCHES IS TO BE USED IN ALL CONCRETE EXCEPT WHERE MID-RANGE WATER REDUCER IS USED WHERE THE SLUMP CAN BE INCREASED TO 6 INCHES.
- MAXIMUM WATER / CEMENT RATIO SHALL NOT EXCEED 0.5 FOR 3000 PSI CONCRETE, AND 0.45 FOR 4000 PSI CONCRETE WITH THE USE MID-RANGE WATER REDUCER.
- SLABS ON GRADE SHALL BE REINFORCED AS SHOWN ON DRAWINGS. WHERE FIBER REINFORCING IS SPECIFIED, THE DOSAGE SHALL BE DETERMINED BY MANUFACTURER.
- SLAB ON GRADE CONTROL JOINTS SHALL BE SAW CUT IMMEDIATELY AFTER FINISH AND SHALL BE LOCATED WHERE SHOWN ON DRAWINGS. SAW CUT DEPTH SHALL BE MINIMUM OF 1/4 THICKNESS OF SLAB.
- CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO CASTING ANY CONCRETE.
- SLAB CONTROL JOINTS SHALL BE SAW CUT SOON AFTER CONCRETE PLACEMENT AND FINISH, AND SHALL BE PLACED AS SHOWN ON DRAWINGS, OR MAXIMUM 20 FEET O.C. DEPTH OF SAW CUT SHALL NOT BE LESS THAN 3/4" DEEP.



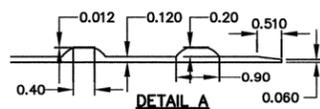
TYPICAL CONSTRUCTION JOINT DETAIL
SCALE: 3/4" = 1'-0"



TYPICAL TRENCH SECTION
NOT TO SCALE

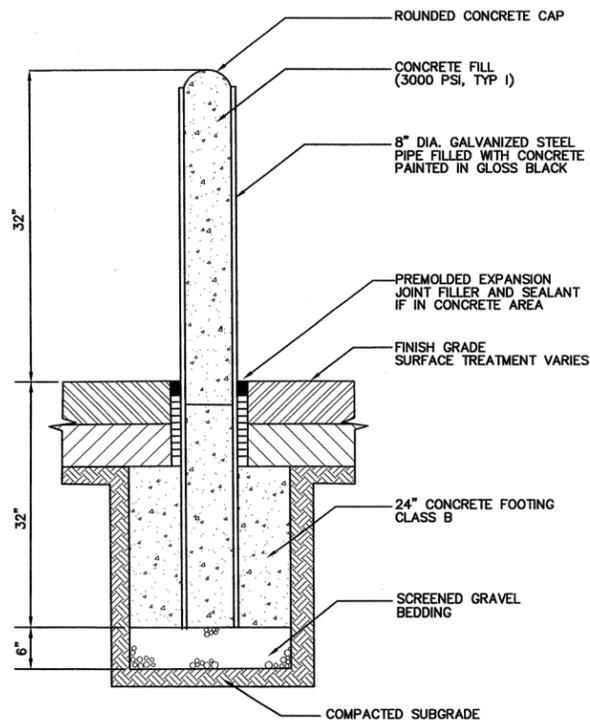


DETAIL PLACEMENT OF TACTILE SURFACE



- A BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP SHALL BE USED ON PORTLAND CEMENT CONCRETE RAMPS.
- MAINTAIN THE NORMAL GUTTER PROFILE THROUGHOUT THE RAMP AREA.
- MAINTAIN 0" OF CURB REVEAL AT THE RAMP.

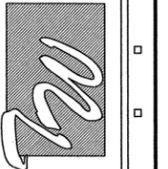
TYPICAL SIDEWALK RAMP
W/ TACTILE WARNING SURFACE
NOT TO SCALE



CONCRETE FILLED BOLLARD
SCALE: N.T.S.



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DOVER BUS FACILITY
DOVER, NH

SITE DETAILS

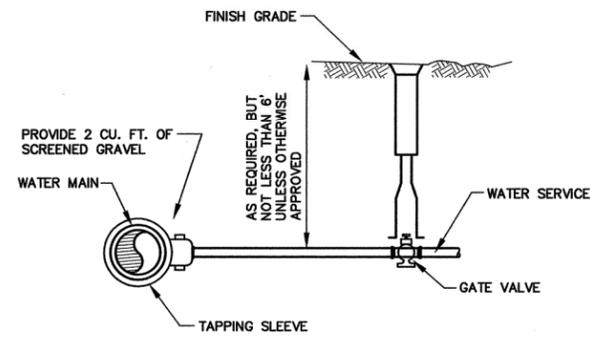
MAY 25, 2006



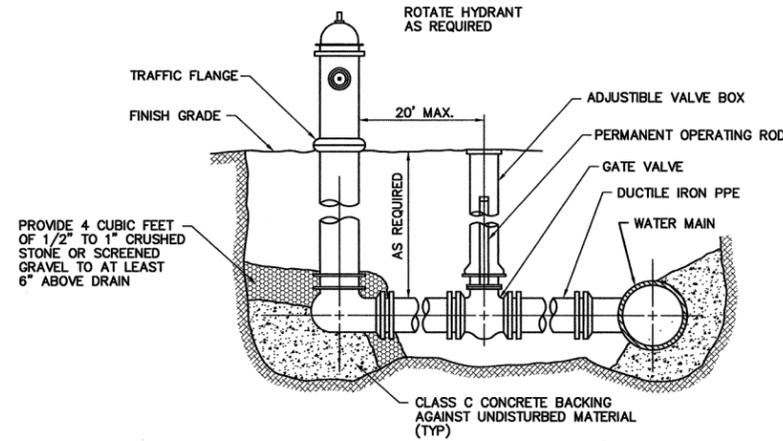
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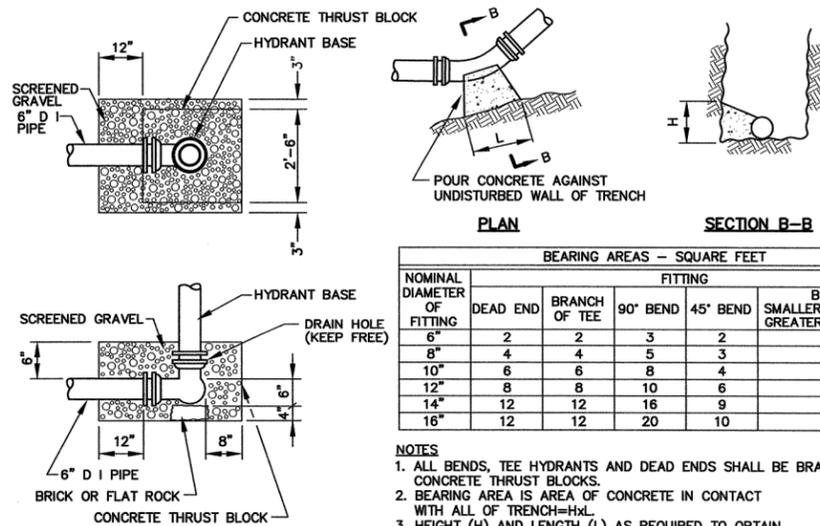
TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE



NOTES:

1. THE WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF DOVER DEPARTMENT OF PUBLIC WORKS WATER UTILITY SERVICE STANDARD SPECIFICATIONS.
2. HYDRANT TO BE PLUMB
3. TRAFFIC FLANGE TO BE HEIGHT ABOVE GRADE AS RECOMMENDED BY THE MANUFACTURER
4. ALL UTILITIES TO BE COVERED WITH BURLAP BAGS UNTIL HYDRANTS ARE IN SERVICE AND UNDER OPERATION BY OWNER
5. HYDRANT SHALL BE EDDY MANUFACTURE

TYPICAL HYDRANT & VALVE DETAIL

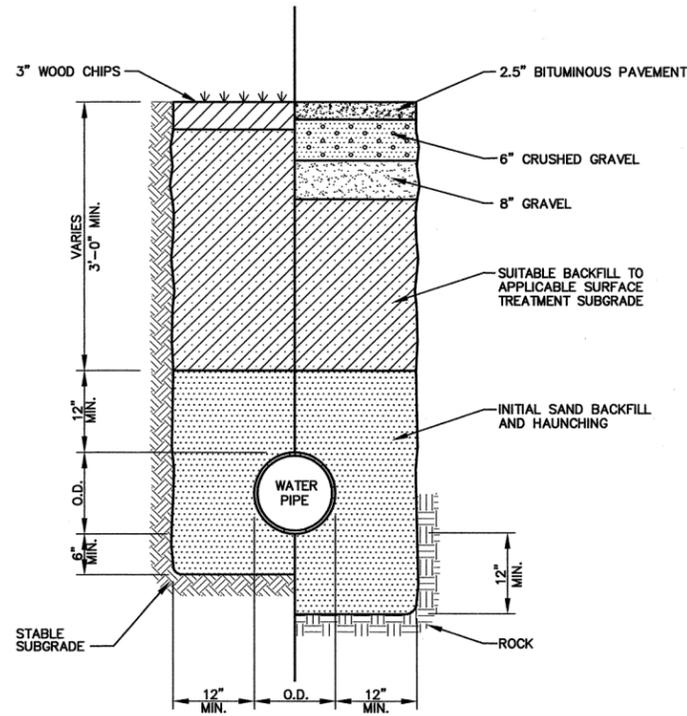


NOMINAL DIAMETER OF FITTING	FITTING				
	DEAD END	BRANCH OF TEE	90° BEND	45° BEND	BEND SMALLER THAN 45° GREATER THAN 10°
6"	2	2	3	2	2
8"	4	4	5	3	2
10"	6	6	8	4	2
12"	8	8	10	6	3
14"	12	12	16	9	4
16"	12	12	20	10	5

NOTES:

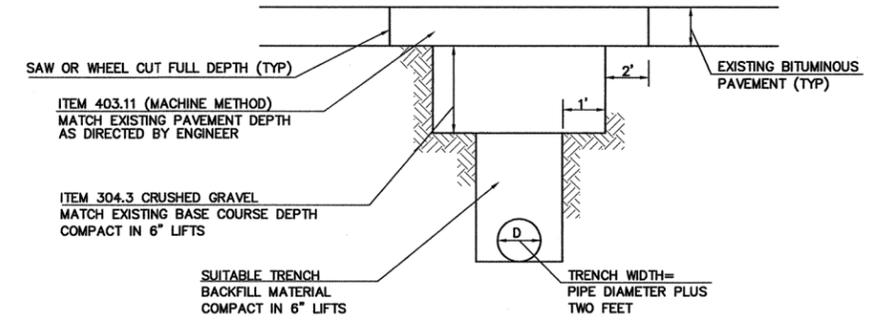
1. ALL BENDS, TEE HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH ALL OF TRENCH=HxL
3. HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN BEARING AREA IN TABLE.

THRUST BLOCK DETAILS
NOT TO SCALE

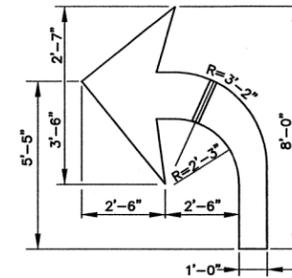


TYPICAL TRENCH SECTION
NOT TO SCALE

NOTE:
PIPE BURIAL 5'-0"
PER CITY STANDARD



PAVEMENT PATCH
NOT TO SCALE



TURN ARROW
(RIGHT TURN OPPOSITE IN KIND)
PAY QUANTITY= 17.0 SF



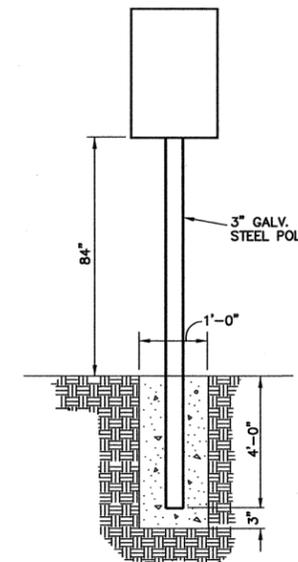
R5-1



R7-1

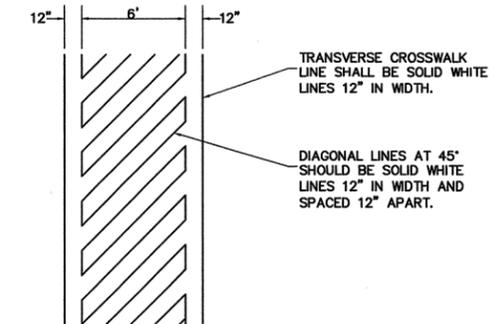
SIGNS SHALL BE SIZED IN ACCORDANCE WITH THE STANDARDS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SIGNS



NOTE: SECURE SIGN WITH BOLTS AND U-CLAMPS CONSTRUCT IN ACCORDANCE WITH NHDOT ITEM #615.

SIGN POST DETAIL
NOT TO SCALE



CROSSWALK MARKING DETAIL
NO SCALE



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DOVER BUS FACILITY DOVER, NH

SITE DETAILS

MAY 25, 2006



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Dover Bus Facility
 Dover, New Hampshire

FLOOR PLAN, WALL TYPES & GENERAL NOTES
 MAY 25, 2006

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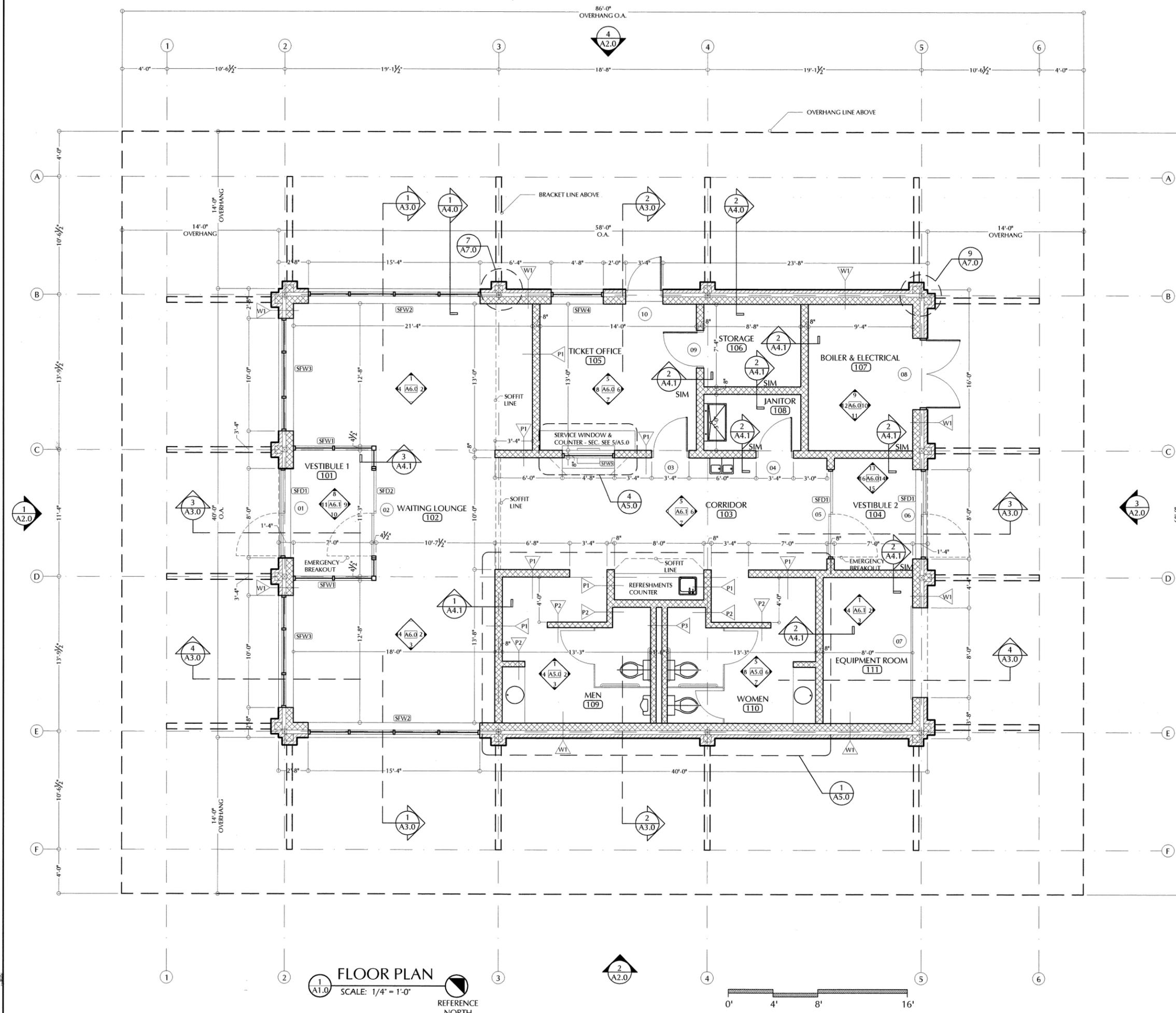
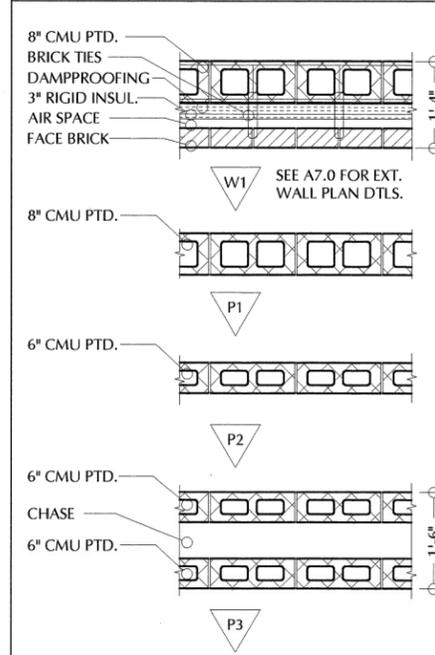
SYMBOLS LEGEND

- ▽ WALL TYPE TAGS
- ⊗ DOOR NUMBER TAGS
- ⊕ BLDG. & WALL SECTION REFERENCE
- ⊖ EXTERIOR ELEVATION REFERENCE
- ⊙ INTERIOR ELEVATION REFERENCE
- XXXX ROOM NAME & NUMBER TAG
- ⊗ DETAIL REFERENCE TAG
- SFW2 STOREFRONT ASSEMBLY TAG

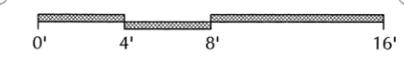
GENERAL NOTES

1. [SFW] - STORE FRONT WINDOW- SEE SHEET A7.0.
2. [SFD] - STORE FRONT DOOR-SEE SHEET A7.0.
3. DOOR DETAILS-SEE SHEETS A7.0 & A7.1.
4. ROOMS 106, 107, 108 & 111 TO BE 1HR. RATED.
5. INTERIOR ELEVATIONS SEE SHEETS A6.0 & A6.1.
6. MEN & WOMEN INT. ELEV. SEE SHEET A5.0.

WALL TYPES



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





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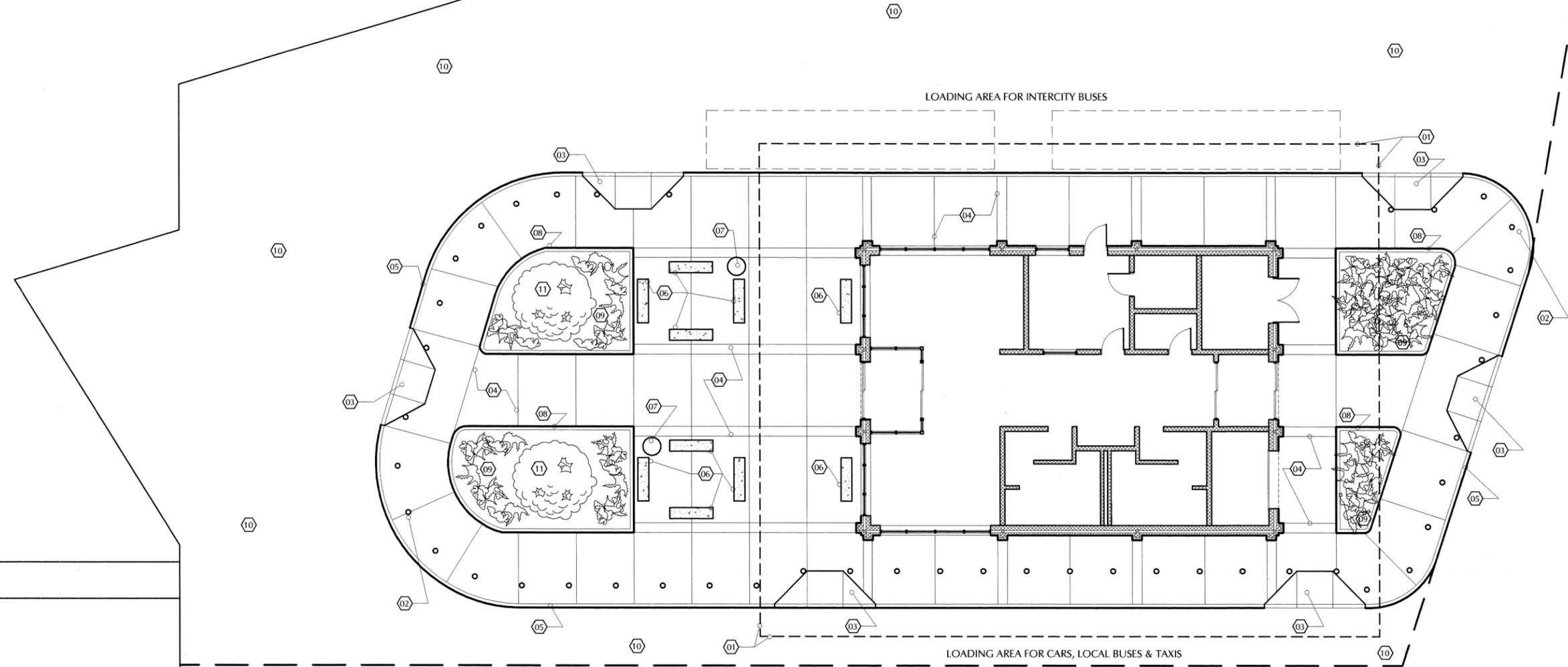


Dover Bus Facility
Dover, New Hampshire

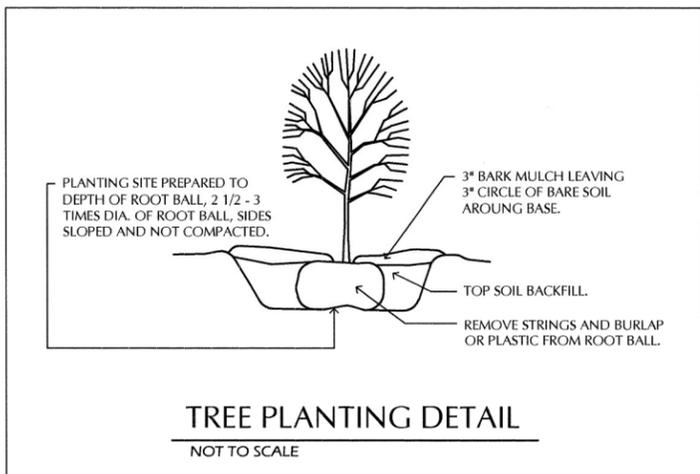
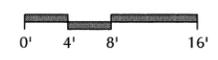
SITE PLAN, LEGEND & ROOF PLAN

MAY 25, 2006

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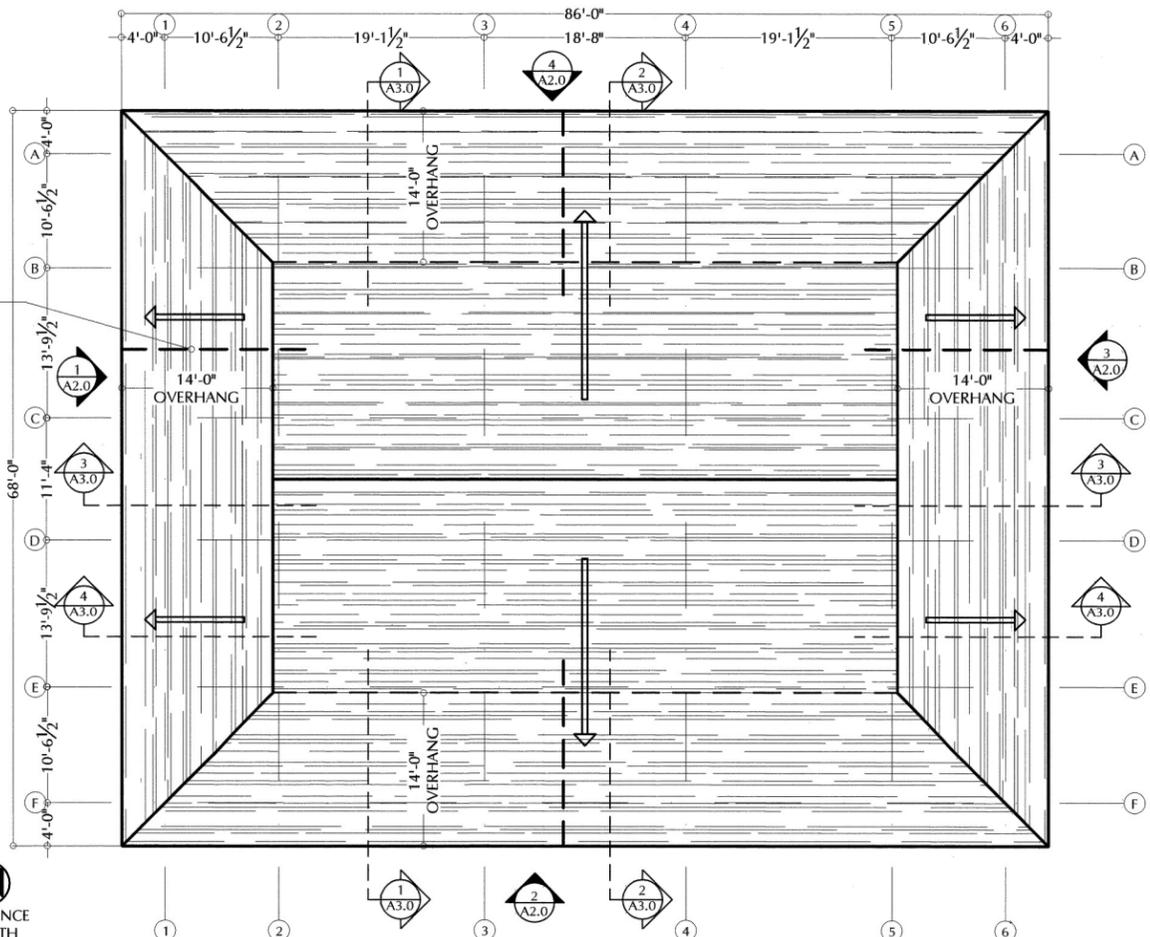


1 SITE PLAN
SCALE: 1/8" = 1'-0"
REFERENCE NORTH



- LEGEND TO SITE PLAN**
- 01 ROOF OVERHANG ABOVE
 - 02 8" DIA. X 32" H. BOLLARDS (TYP.)
 - 03 H.C. CURB CUT (TYP.)
 - 04 CONTROL JOINTS (TYP.)
 - 05 GRANITE CURB
 - 06 PRECAST CONCRETE BENCHES (SEE SPECS.)
 - 07 WASTE CONTAINERS (SEE SPECS.)
 - 08 6" PLANTER CURB
 - 09 BLUE CHIP JUNIPER
 - 10 10" THICK CONCRETE PAVING
 - 11 RED MAPLE

4" INSUL. C.I. RAIN WATER LEADER ABOVE SOFFIT & INTO BLDG.
- LOCATE R.W.L. SO THAT DRAIN RECEIVER SECTION IS MIN. 36" FROM END OF STD. GUTTER SECTION.
- PROVIDE ADEQUATE CLEARANCE FOR R.W.L. FROM SOFFIT HUNG ELEC. FIXTURE AND STRUCT. BRACING
- LOCATE WITHIN 24" OF CENTER OF STRUCTURAL BAY (TYP.)



2 ROOF PLAN
SCALE: 1/8" = 1'-0"
REFERENCE NORTH

PLANT LIST

QTY.	BOTANICAL NAME	COMMON NAME	SIZE
2	ACER RUBRUM	RED MAPLE	2 1/2" CALIPER
65	JUNIPEROUS HORIZONTALIS BLUE CHIP	BLUE CHIP JUNIPER	



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REFLECTED CEILING PLAN, NOTES & LEGEND

MAY 25, 2006

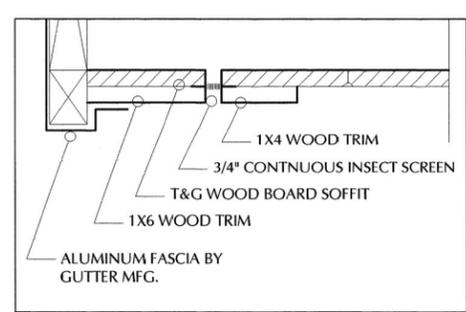
A
1.2

CEILING NOTES:

1. TYPE 'X' GWB SOFFIT @ 8'-0".
2. STL. FURRING CHANNELS @ 24"O.C. W/ 2 LAYERS 5/8" TYPE 'X' PTD. GWB ON UNDERSIDE OF CEILING JOISTS/TRUSSES.
3. ACOUSTICAL CEILING TILE @ 12'-0".
4. ACOUSTICAL CEILING TILE @ 10'-0".
5. STOREFRONT WINDOWS @ 10'-0".
6. CONT. PREFIN. ALUMINUM GUTTER & FASCIA (TYP.)
7. T&G WOOD SOFFIT (TYP.)
8. T&G WOOD SOFFIT INSTALLED DIAGONALLY (TYP. @ CORNERS).
9. 1X6 WOOD TRIM (ON TOP OF SOFFIT) AROUND BRACKET (TYP.).
10. WOOD CLOSURE TRIM @ BRICK WALL
11. 22"x36" INSUL ATTIC HATCH BETWEEN CEILING JOISTS.
12. PTD. STEEL BRACKET
13. SOFFIT VENT/INSECT SCREEN - SEE DTL.

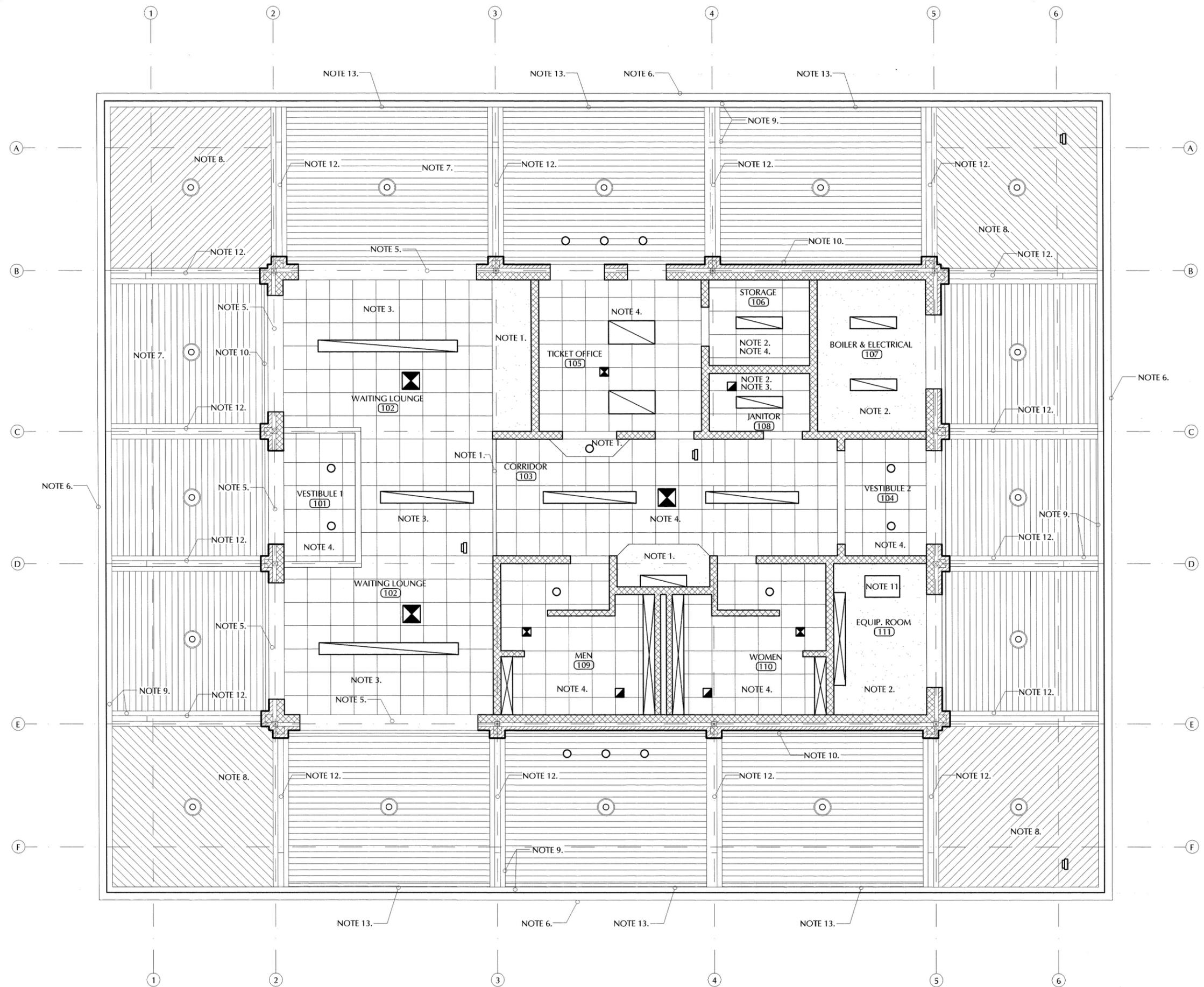
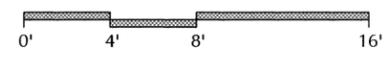
LEGEND

- SOFFIT MOUNTED PENDANT FIXTURE - SEE ELEC. DWG.
- 2'-0" x 4'-0" FIXTURE - SEE ELEC. DWG.
- 1' x 1'-0" SURFACE MOUNTED FIXTURE - SEE ELEC. DWG.
- WALL MOUNTED FIXTURE-SEE ELEC. DWG.
- CAN LIGHT-SEE ELEC. DWG.
- SUPPLY-SEE MECH. DWG.
- RETURN-SEE MECH. DWG.
- SOFFIT MOUNTED CCTV CAMERA - SEE ELEC. DWG.
- 2'-0" x 4'-0" ACT
- GWB CEILING/SOFFIT
- T & G WOOD BOARD SOFFIT



2 SOFFIT VENT DETAIL
 SCALE: 3" = 1'-0"

1 REFLECTED CEILING
 SCALE: 1/4" = 1'-0"
 REFERENCE NORTH





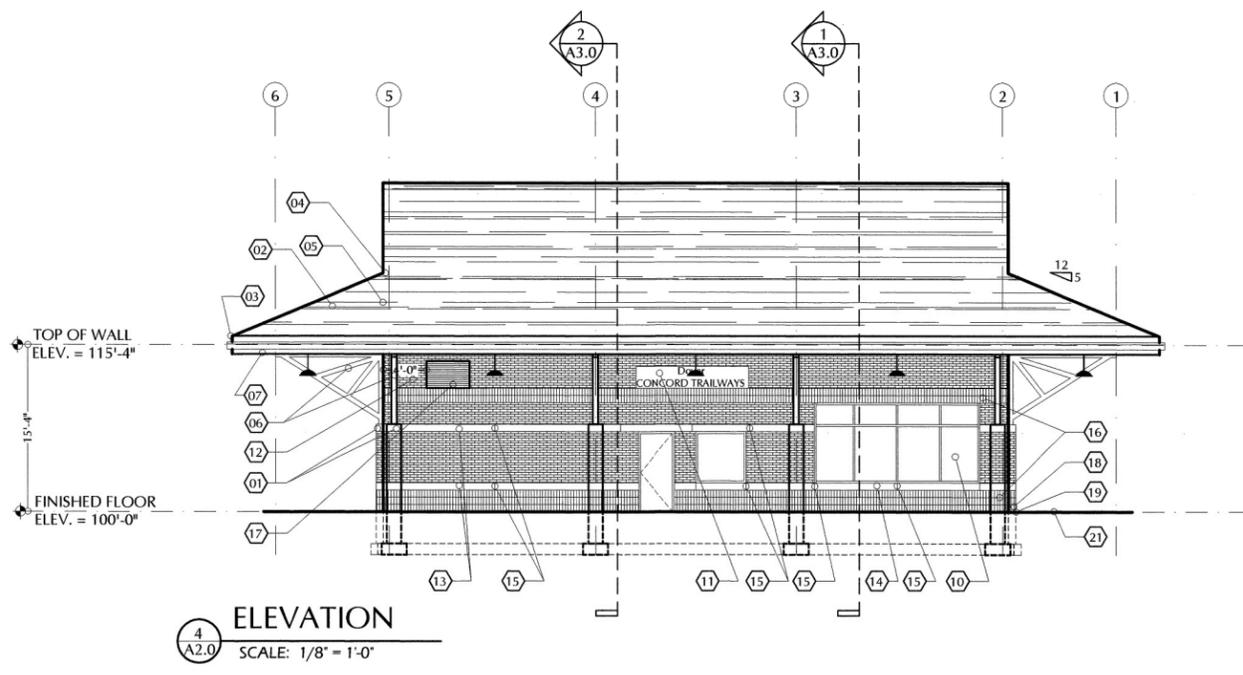
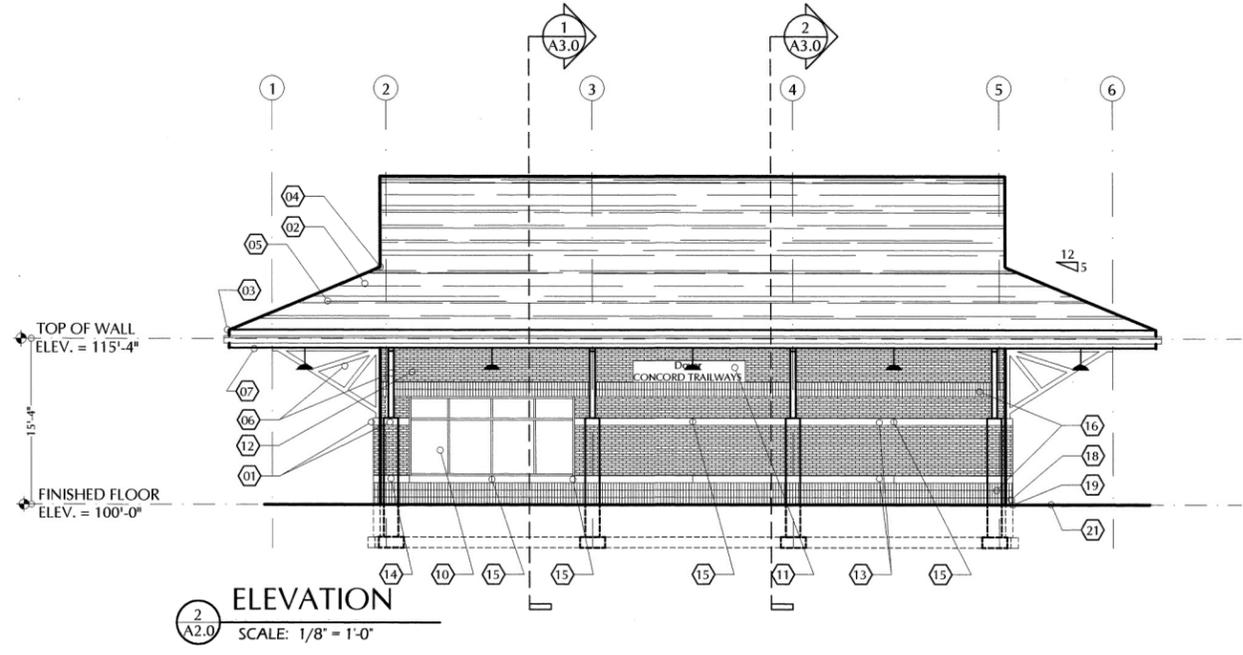
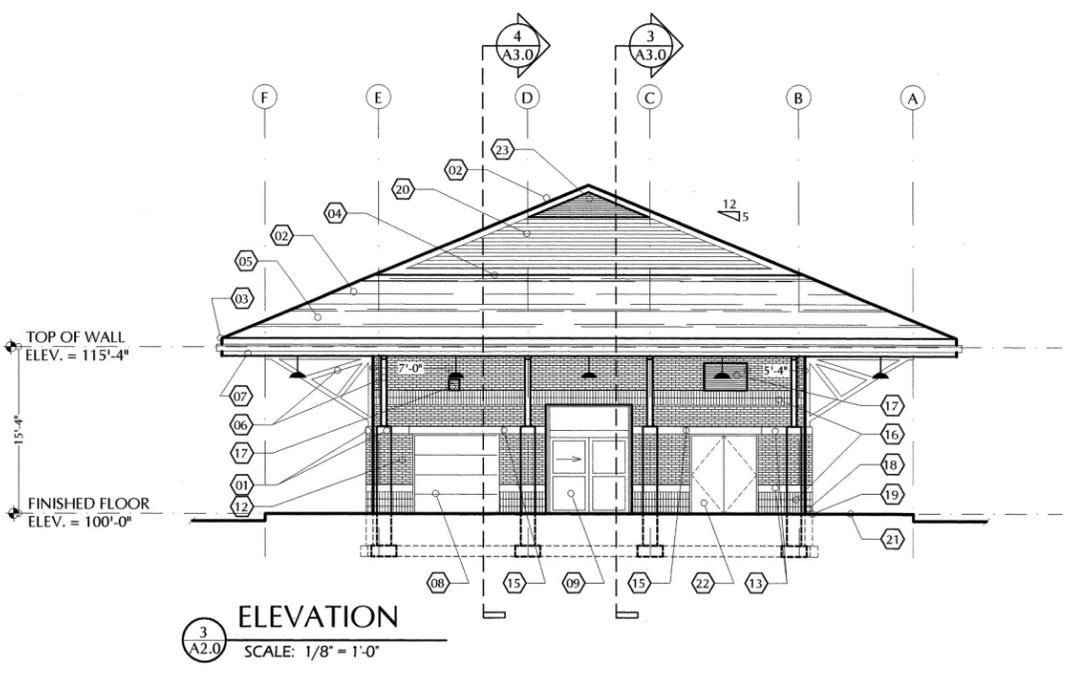
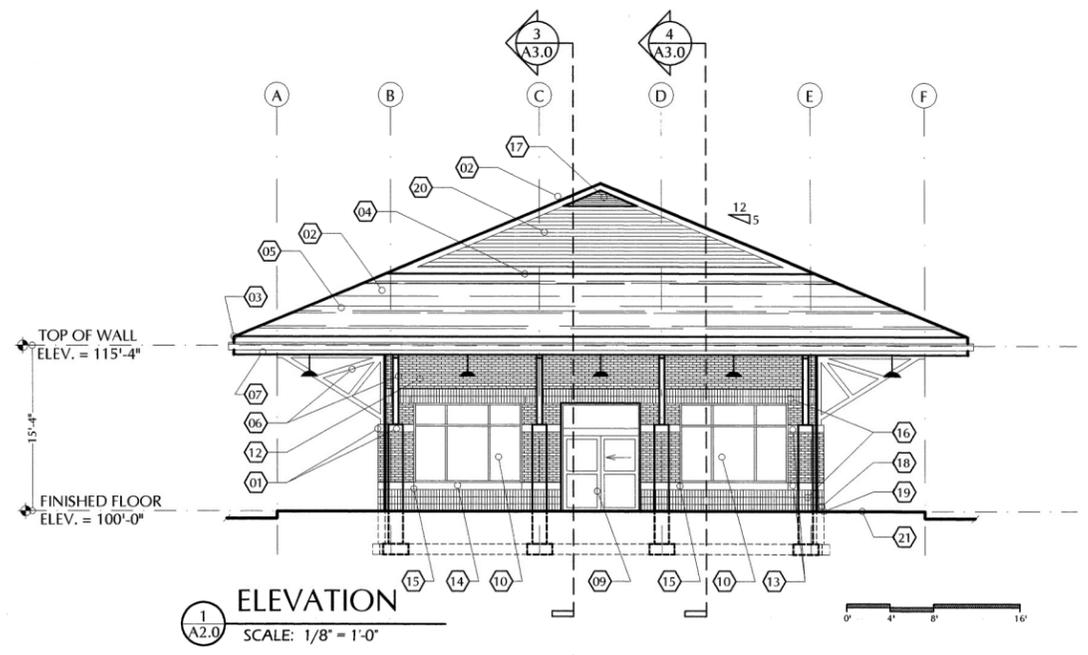
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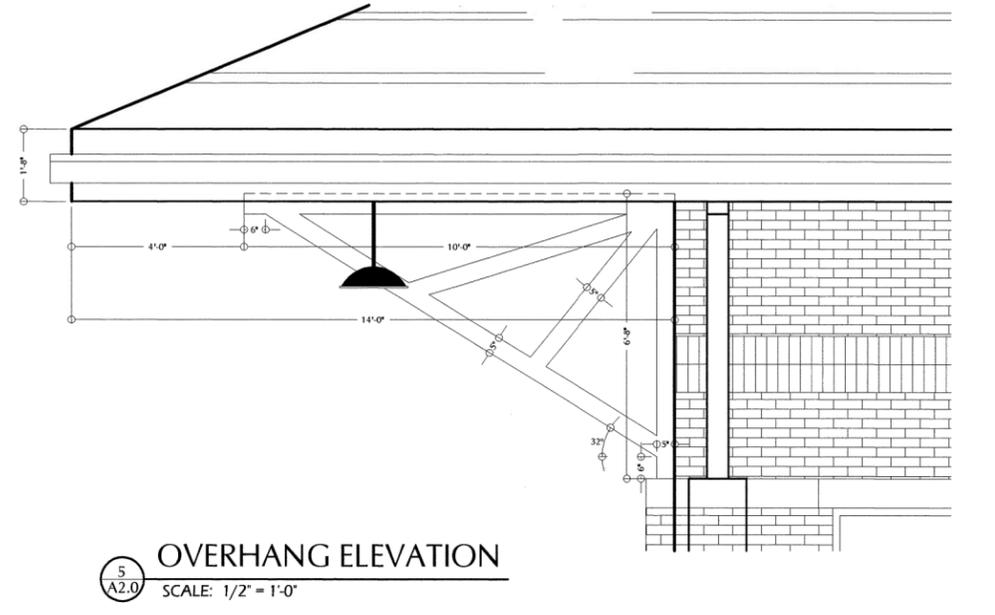
ELEVATIONS &
 LEGEND

MAY 25, 2006

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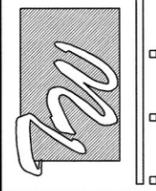


LEGEND TO ELEVATIONS			
01	8" ROUGH FACE GRANITE @ TOP OF PILASTER	14	ROUGH FACE GRANITE SILL
02	ASPHALT SHINGLE ROOF	15	MORTAR JOINT IN GRANITE
03	PREFINISHED DRIP EDGE BY GUTTER MANUF.	16	BRICK SOLDIER COURSE
04	METAL FLASHING	17	PREFIN. ALUM. LOUVER - SEE MECH.
05	PROVIDE BITUTHENE (ICE AND WATER SHIELD) UNDER ENTIRE ROOF	18	WEEP HOLES 16" O.C.
06	STEEL TUBE BRACKETS	19	THRU WALL FLASHING
07	PREFINISHED ALUM. GUTTER & FASCIA	20	PREFINISHED ALUMINUM LAP SIDING
08	OVERHEAD DOOR	21	CONCRETE SIDEWALK-REFER TO CIVIL DWGS.
09	AUTOMATIC ENTRY DOORS	22	BOILER/ELECTRICAL ROOM DOORS
10	ALUMINUM STOREFRONT WINDOW	23	PRE-FIN. ALUM. LOUVER
11	STATION SIGN		
12	BRICK RUNNING BAND		
13	8" ROUGH FACE GRANITE BAND		





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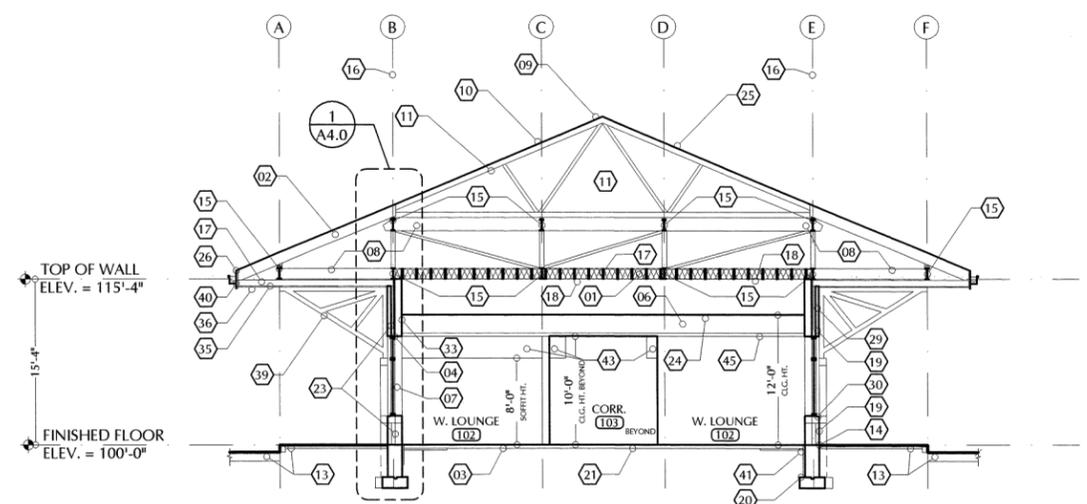


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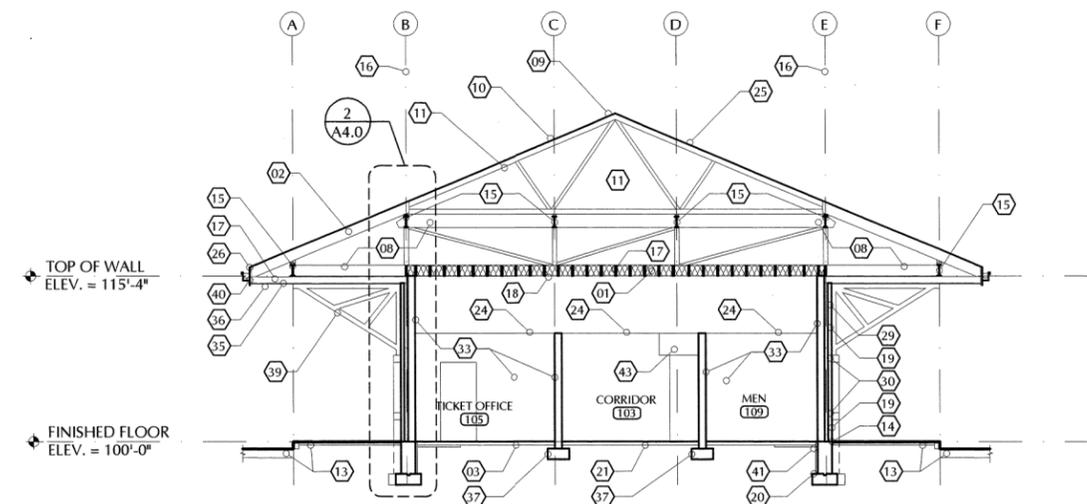
BUILDING SECTIONS
 & LEGEND

MAY 25, 2006

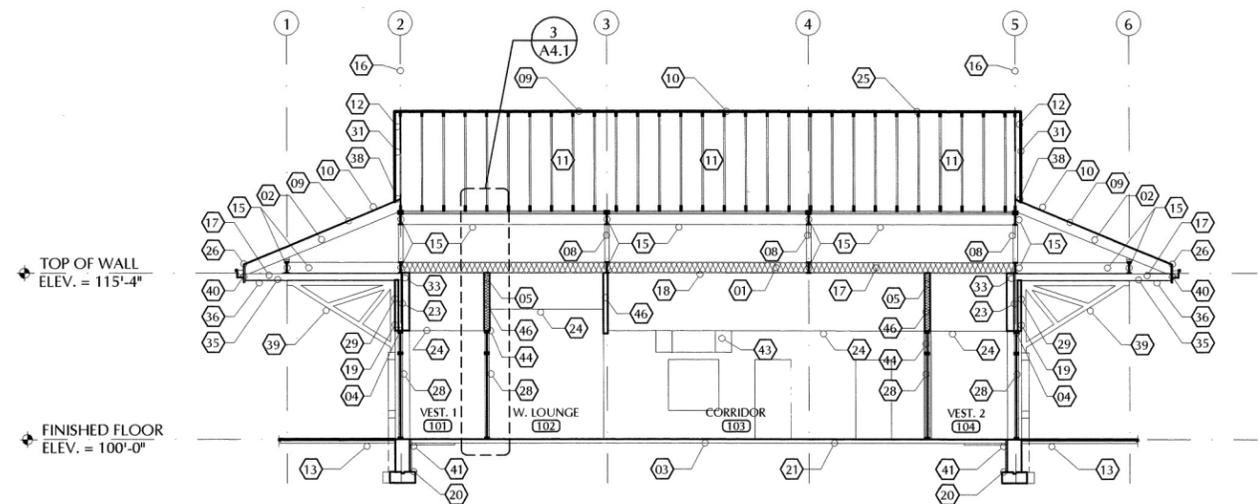
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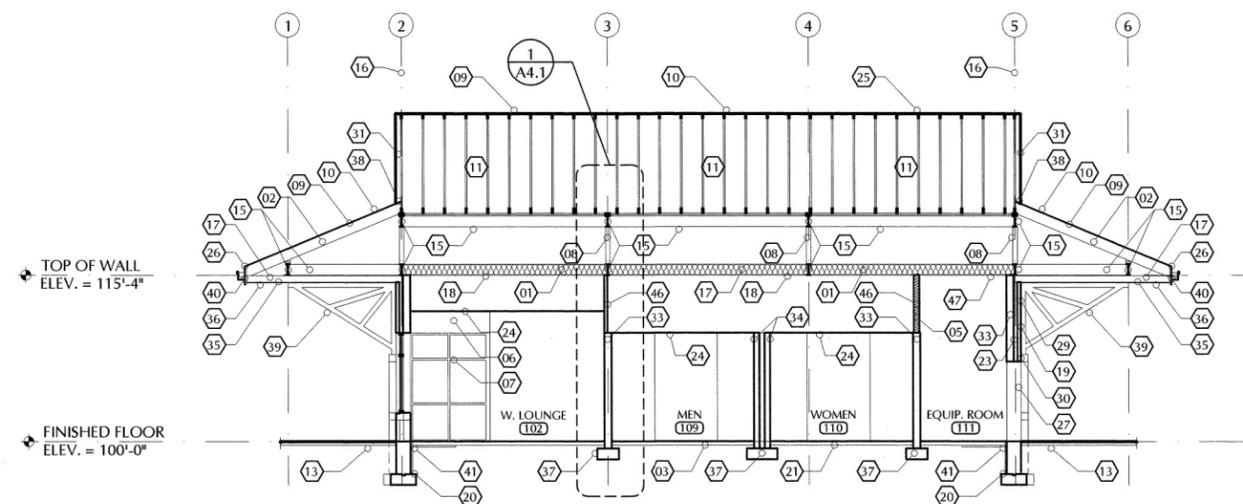
1
 A3.0 BUILDING SECTION
 SCALE: 1/8" = 1'-0"



2
 A3.0 BUILDING SECTION
 SCALE: 1/8" = 1'-0"



3
 A3.0 BUILDING SECTION
 SCALE: 1/8" = 1'-0"



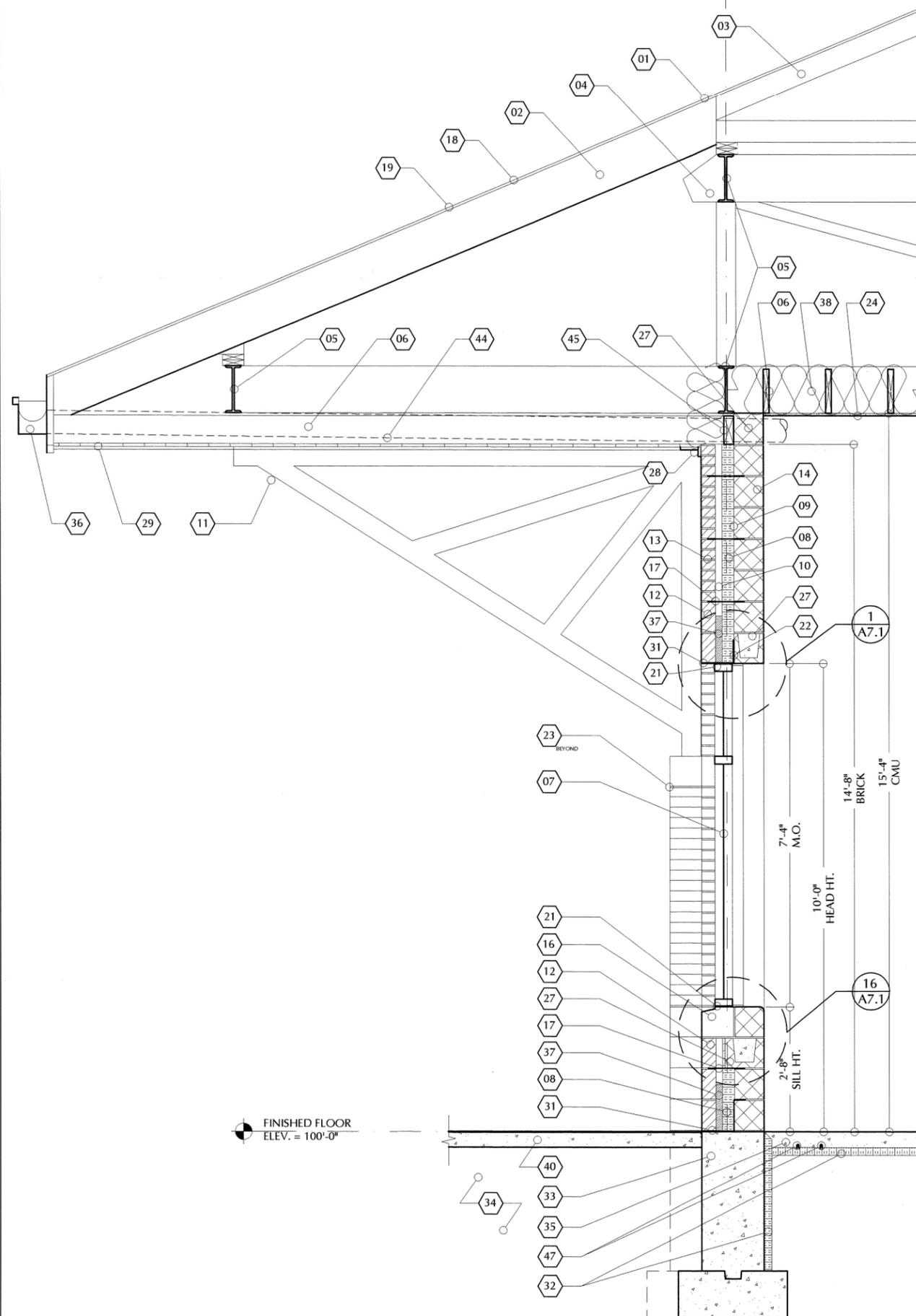
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 A3.0 BUILDING SECTION
 SCALE: 1/8" = 1'-0"

LEGEND TO BUILDING SECTIONS

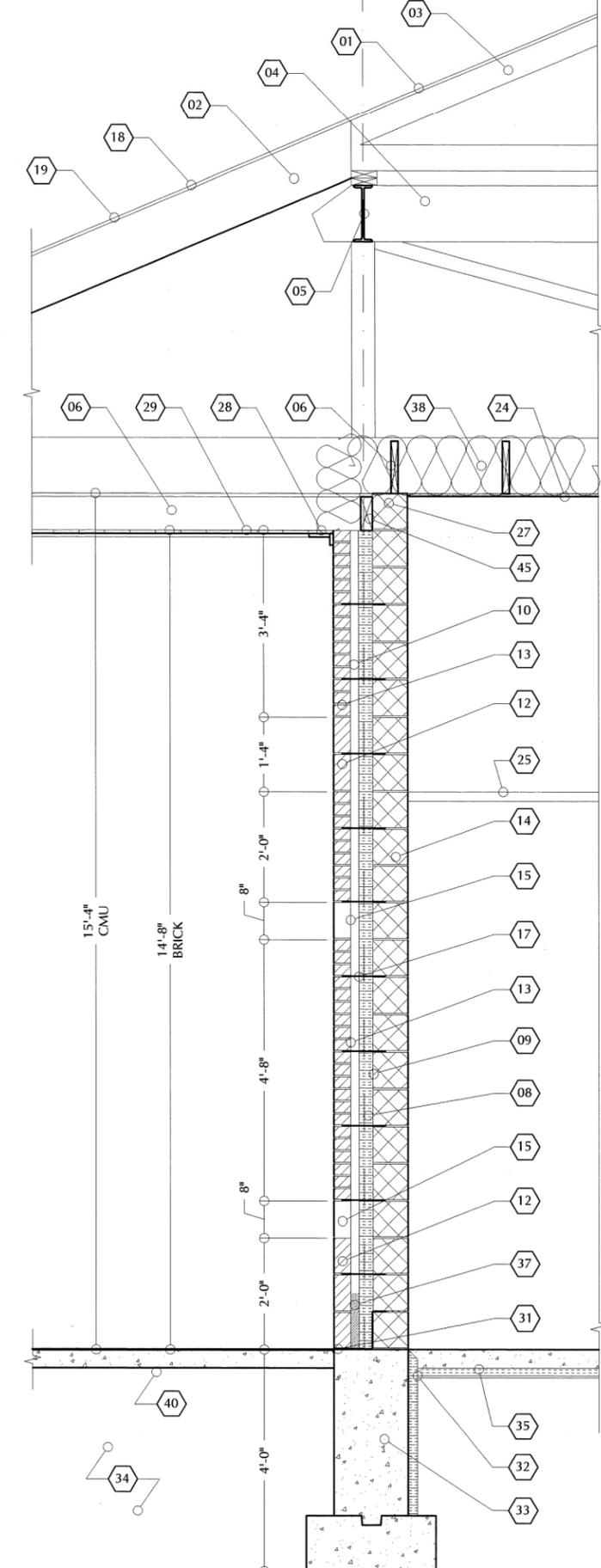
01 R60 BLOWN IN FIBERGLASS OR CELLULOSE FIBER INSUL.	14 WEEP HOLES @16" O.C.; EXTEND FLASHING 24" ABOVE WEEP HOLES	27 OVERHEAD DOOR	40 ALUMINUM GUTTER & FASCIA BY GUTTER MANUF.
02 2 x 12 ROOF RAFTERS - SEE STRUC.	15 STEEL BEAM-SEE STRUCTURAL DWGS.	28 AUTOMATIC ENTRY DOORS	41 2" RIGID INSULATION 4'-0" HOR./VERT.
03 PROVIDE CONTINUOUS VAPOR BARRIER UNDER ALL INTERIOR SLAB ON GRADE	16 STEEL COLUMN-SEE STRUCTURAL DWGS.	29 BRICK RUNNING BOND W/ BRICK TIES	42 NOT USED
04 LINTEL & THRU WALL FLASHING - SEE DTLS. A7.1	17 CEILING JOIST-SEE STRUCTURAL DWGS.	30 8" ROUGH FACE GRANITE BAND/SILL	43 GWB SOFFIT-SEE A1.2
05 BATT INSULATION	18 5/8" GWB TAPED ON 6 MIL POLY @ BOTTOM OF TRUSS/JOIST	31 PREFINISHED ALUMINUM LAP SIDING	44 ALUMINUM STOREFRONT-MTL. FRAMING/ GWB ABOVE
06 5/8" TYPE "X" GWB	19 BRICK SOLDIER COURSE W/ BRICK TIES	32 CONCRETE SIDEWALK-SEE CIVIL DWGS.	45 1x4 PAINTED WOOD TRIM
07 ALUMINUM STOREFRONT	20 CONCRETE FOUNDATION-SEE STRUCTURAL DWGS.	33 8" PTD. CMU BLOCK - SEE STRUCTURAL DWGS.	46 3-5/8" METAL STUD FRAMING
08 GIRDER TRUSS - SEE STRUCTURAL DWGS.	21 CONCRETE SLAB ON GRADE-SEE STRUCTURAL DWGS.	34 6" PTD. CMU BLOCK - SEE STRUCTURAL DWGS.	47 2 LAYERS 5/8" TYPE "X" GWB TAPED & PTD. ON STL. FURRING CHANNELS @ 24"O.C. ON CLG. JOIST (1 HOUR FIRE RATING)
09 PROVIDE BITHTHENE (ICE & WATER SHIELD) UNDER ENTIRE ROOF	22 SUSPENDED GWB CEILING	35 6" T & G WOOD BOARD SOFFIT-SEE A1.2	
10 ROOF SHEATHING W/ ASPHALT SHINGLE ROOF	23 DAMPPROOFING	36 WOOD TRIM AROUND BRACKETS & ALONG EDGES	
11 WOOD TRUSSES - SEE STRUCTURAL DWGS.	24 SUSPENDED ACT-SEE A1.2	37 INT. WALL CONC. FOOTING - SEE STRUCTURAL DWGS.	
12 PREFINISHED ALUMINUM LOUVER	25 FLASH ROOF AS PER MFR. REQUIREMENTS AT ANY AND ALL PENETRATIONS (INDICATED OR NOT)	38 METAL FLASHING	
13 CONCRETE WALK & PAVING - SEE CIVIL DWGS.	26 DRIP EDGE BY GUTTER MANUF.	39 STEEL TUBE BRACKETS	

LEGEND TO WALL SECTIONS

- 01 ASPHALT SHINGLES ON 5/8" ROOF SHEATHING
- 02 2 x 12 RAFTERS - SEE STRUC.
- 03 WOOD TRUSS @ 24" O.C. - SEE STRUC.
- 04 GIRDER TRUSS - SEE STRUC.
- 05 STEEL BEAM - SEE STRUC.
- 06 CEILING JOIST - SEE STRUC.
- 07 ALUMINUM STOREFRONT
- 08 3" RIGID INSUL.
- 09 DAMPPROOFING
- 10 AIR SPACE
- 11 STEEL TUBE BRACKET
- 12 BRICK SOLDIER COURSE - ELEV. PATTERN SEE A2.0
- 13 BRICK RUNNING BOND
- 14 8" CMU PAINTED
- 15 8" ROUGH FACE GRANITE BAND
- 16 8" ROUGH FACE GRANITE SILL
- 17 BRICK TIES @ 16" O.C. BOTH HOR. & VERT.
- 18 PROVIDE BITUTHENE (ICE AND WATER SHIELD) & BUILDING PAPER UNDER ENTIRE ROOF
- 19 FLASH ROOF AS PER MFR. REQUIREMENTS AT ANY AND ALL PENETRATIONS (INDICATED OR NOT)
- 20 BATT INSULATION
- 21 CAULK AND BACKER ROD
- 22 STEEL LINTEL - SEE STRUC.
- 23 BRICK & GRANITE PILASTER
- 24 5/8" GWB TAPED ON 6 MIL POLY @ BOTTOM OF JOIST/TRUSS
- 25 SUSPENDED ACOUSTICAL CEILING TILE
- 26 3-5/8" METAL FRAMING
- 27 BOND BEAM - SEE STRUC.
- 28 1x TRIM AROUND BRACKETS & ALONG EDGES
- 29 6" T&G WOOD BOARD SOFFIT - SEE REFL. CLG. PLAN FOR LAYOUT
- 30 3-5/8" MTL. FRAMING @ 24" O.C. W/ 5/8" TYPE 'X' GWB TAPED & PTD. BOTH SIDES W/ R13 BATT INSULATION (1 HOUR FIRE RATING)
- 31 THRU WALL FLASHING W/ WEEP HOLES @ 16" O.C.
- 32 2" RIGID INSULATION (MITERED @ F.F.) 4' VERT. & HOR. @ ALL PERIMETER CONDITIONS
- 33 CONCRETE FOUNDATION/FOOTING - SEE STRUC.
- 34 MIN. 4'-0" FROST COVER @ ALL FOOTINGS
- 35 SLAB ON GRADE - PROVIDE CONTINUOUS VAPER BARRIER UNDER ALL INTERIOR SLAB ON GRADE
- 36 CONT. ALUM. GUTTER W/ DRIP EDGE & ALUM. FASCIA BY GUTTER MANUF.
- 37 MORTAR NET @ WEEP HOLES & BASE OF CAVITY
- 38 R60 BLOWN IN FIBERGLASS OR CELLULOSE FIBER INSUL.
- 39 5/8" TYPE 'X' GWB PTD.
- 40 EXTERIOR CONCRETE PAVING
- 41 1x4 PTD. WOOD TRIM
- 42 2 LAYERS 5/8" TYPE 'X' GWB TAPED & PTD. ON STL. FURRING CHANNELS @ 24" O.C. ON CLG. JOIST (1 HOUR FIRE RATING)
- 43 INTERIOR WALL CONCRETE FOOTING - SEE STRUCTURAL DWGS.
- 44 RAIN WATER LEADERS - SEE MECH. DWGS. & ROOF PLAN
- 45 CONTINUOUS LEDGER - SEE STRUCTURAL DWGS.
- 46 HEATING CABLES - SEE MECHANICAL DWGS./SPECS.



1
A4.0
WALL SECTION
SCALE: 3/4" = 1'-0"



2
A4.0
WALL SECTION
SCALE: 3/4" = 1'-0"



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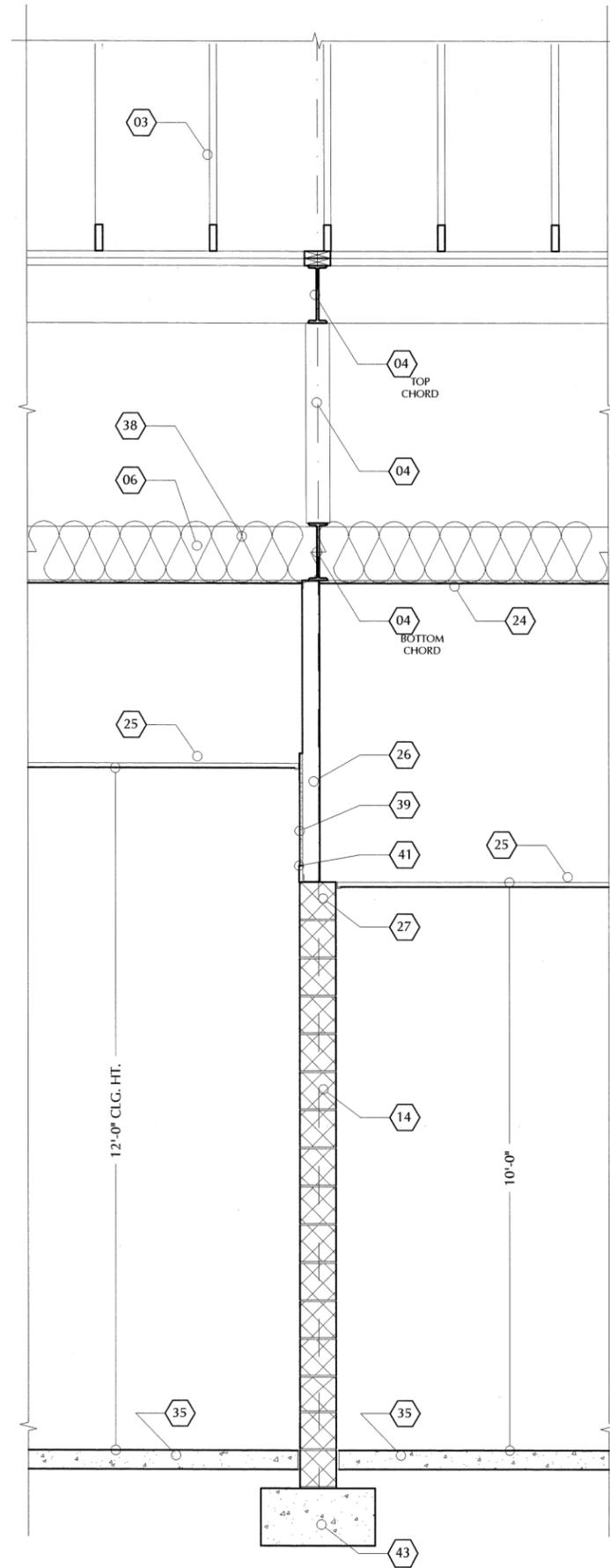
WALL SECTIONS & LEGEND

MAY 25, 2006

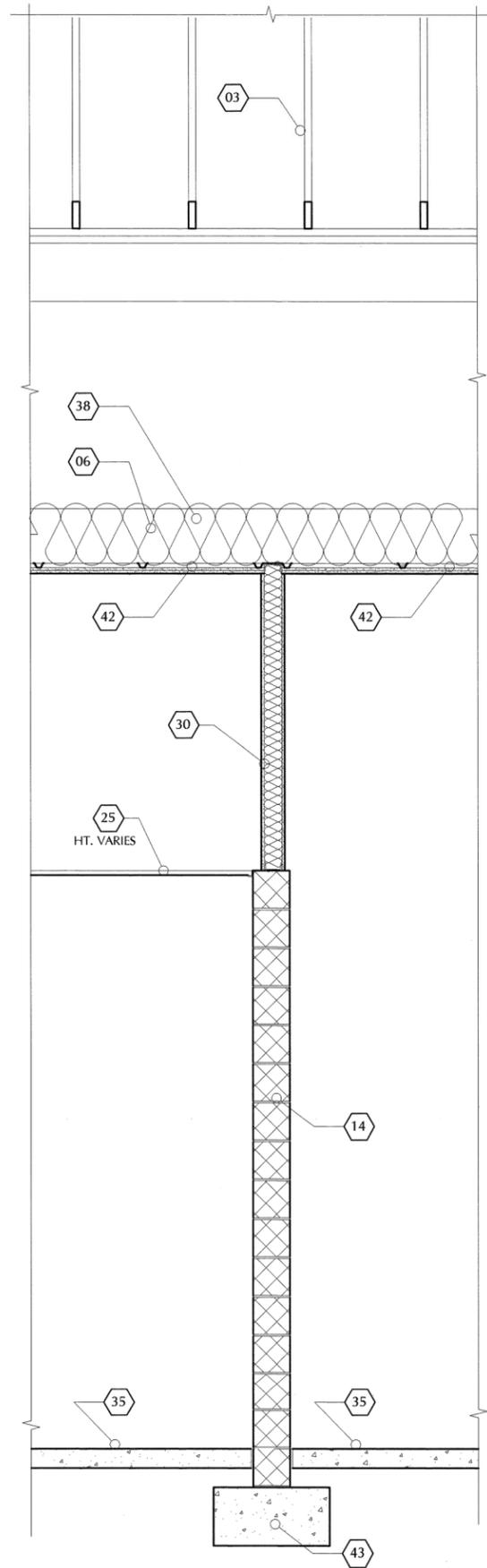
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LEGEND TO WALL SECTIONS

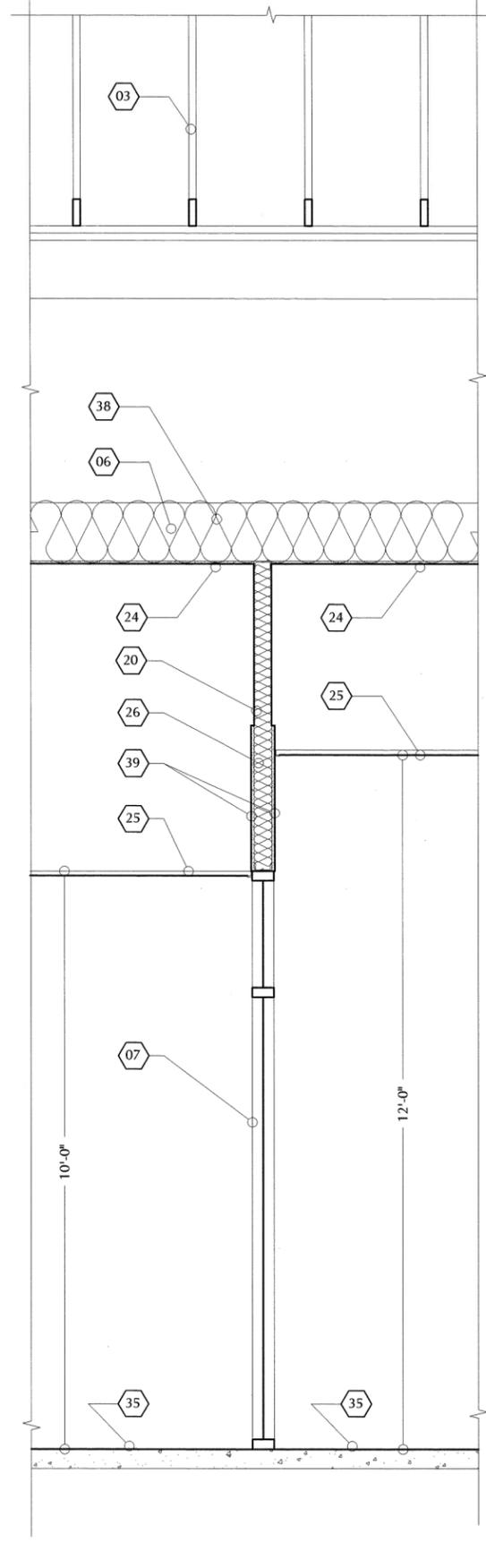
- 01 ASPHALT SHINGLES ON 5/8" ROOF SHEATHING
- 02 2 x 12 RAFTERS - SEE STRUC.
- 03 WOOD TRUSS @ 24" O.C. - SEE STRUC.
- 04 GIRDER TRUSS - SEE STRUC.
- 05 STEEL BEAM - SEE STRUC.
- 06 CEILING JOIST - SEE STRUC.
- 07 ALUMINUM STOREFRONT
- 08 3" RIGID INSUL.
- 09 DAMPPROOFING
- 10 AIR SPACE
- 11 STEEL TUBE BRACKET
- 12 BRICK SOLDIER COURSE - ELEV. PATTERN SEE A2.0
- 13 BRICK RUNNING BOND
- 14 8" CMU PAINTED
- 15 8" ROUGH FACE GRANITE BAND
- 16 8" ROUGH FACE GRANITE SILL
- 17 BRICK TIES @ 16" O.C. BOTH HOR. & VERT.
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- 20 BATT INSULATION
- 21 CAULK AND BACKER ROD
- 22 STEEL LINTEL - SEE STRUC.
- 23 BRICK & GRANITE PILASTER
- 24 5/8" GWB TAPED ON 6 MIL POLY @ BOTTOM OF JOIST/TRUSS
- 25 SUSPENDED ACOUSTICAL CEILING TILE
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- 43 INTERIOR WALL CONCRETE FOOTING - SEE STRUCTURAL DWGS.
- 44 RAIN WATER LEADERS - SEE MECH. DWGS. & ROOF PLAN
- 45 CONTINUOUS LEDGER - SEE STRUCTURAL DWGS.
- 46 HEATING CABLES - SEE MECHANICAL DWGS./SPECS.



1 WALL SECTION
A4.1 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A4.1 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A4.1 SCALE: 3/4" = 1'-0"



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WALL SECTIONS & LEGEND
MAY 25, 2006

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4.1



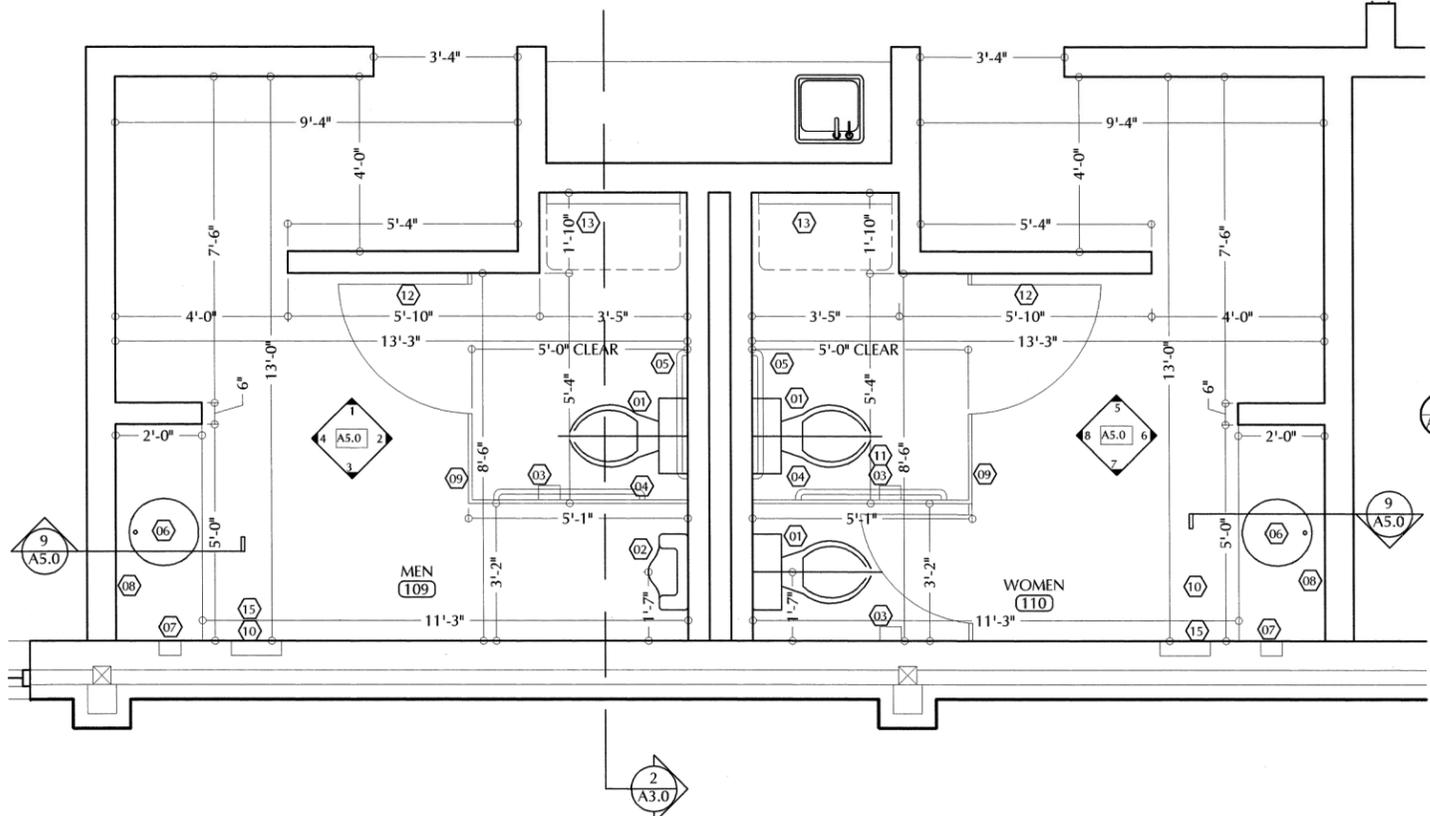
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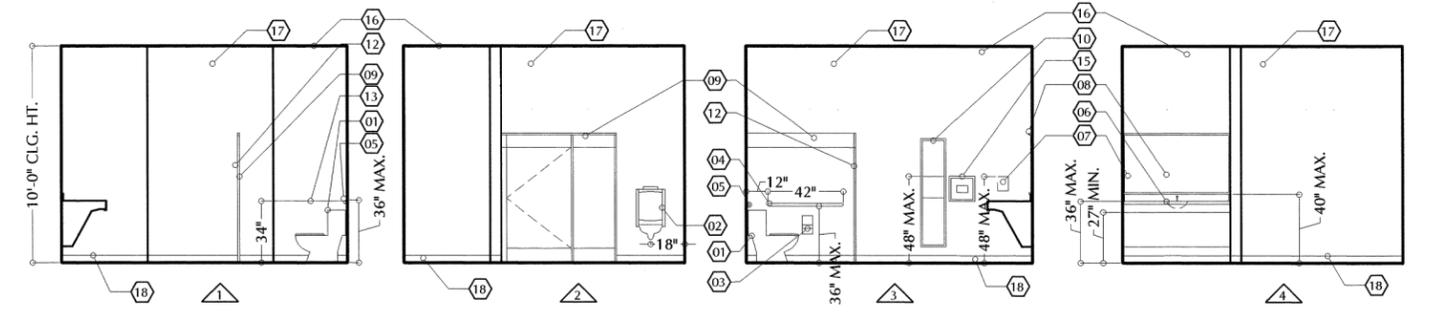
ENLARGED PLANS:
 TOILETS & COUNTERS

MAY 25, 2006

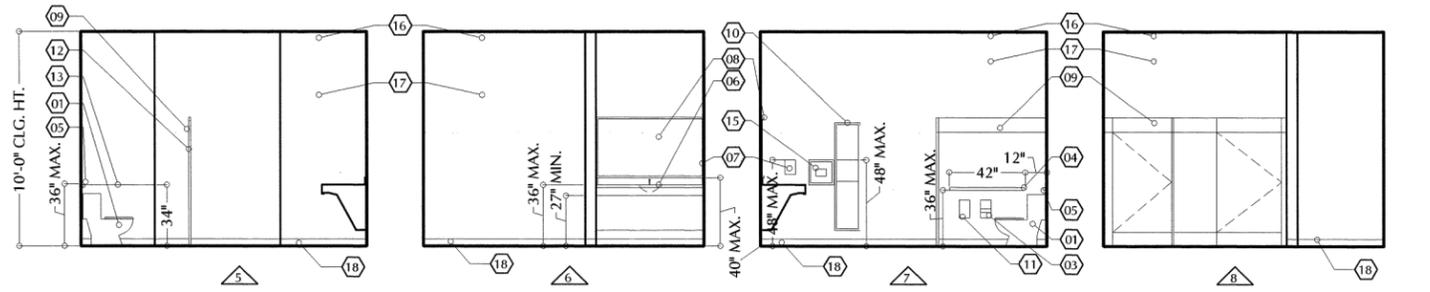
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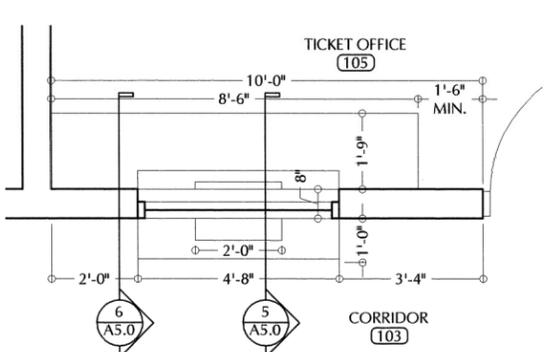
1 A5.0
ENLARGED PLAN- MENS ROOM 109 & WOMANS ROOM 110
 SCALE: 1/2" = 1'-0"



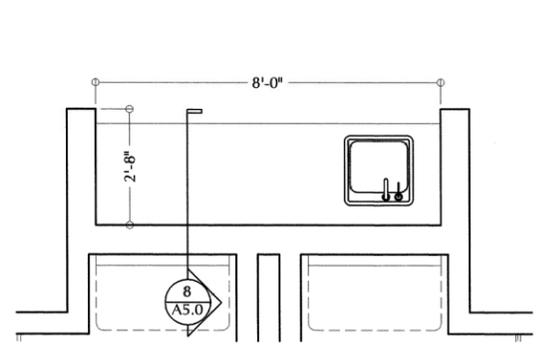
2 A5.0
MEN -ROOM 109
 SCALE: 1/4" = 1'-0"



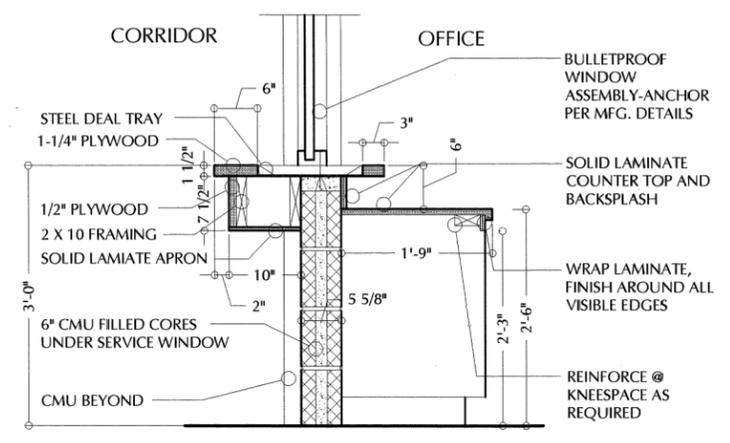
3 A5.0
WOMEN -ROOM 110
 SCALE: 1/4" = 1'-0"



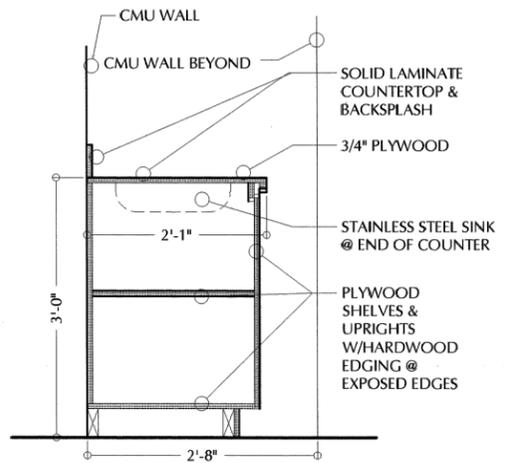
4 A5.0
ENLARGED PLAN-CORRIDOR 103 & TICKET OFFICE 105
 SCALE: 1/2" = 1'-0"



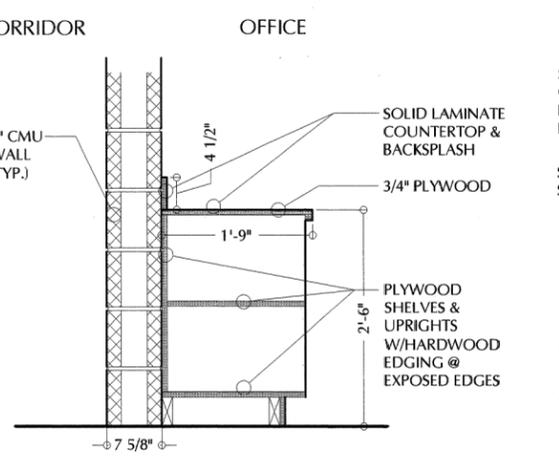
7 A5.0
ENLARGED PLAN-REFRESHMENT COUNTER
 SCALE: 1/2" = 1'-0"



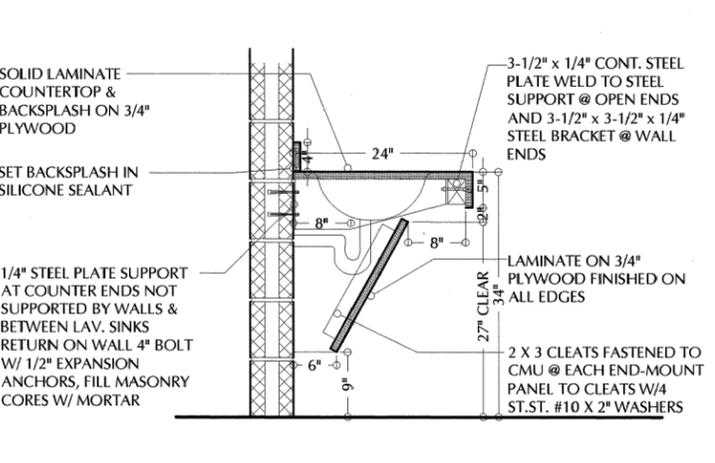
5 A5.0
TICKET WINDOW & COUNTER
 SCALE: 1" = 1'-0"



8 A5.0
REFRESHMENT COUNTER
 SCALE: 1" = 1'-0"



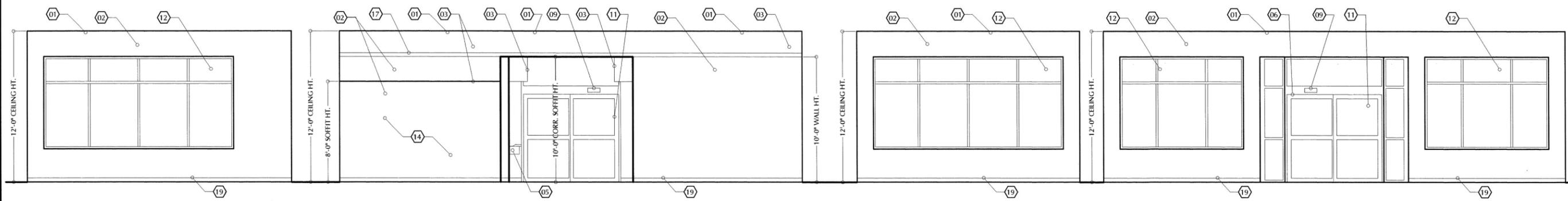
6 A5.0
SERVICE COUNTER
 SCALE: 1" = 1'-0"



9 A5.0
LAVATORY COUNTER
 SCALE: 1" = 1'-0"

LEGEND TO MEN'S & WOMAN'S TOILET

01 FLOOR MOUNTED TOILET	06 HAND SINK	11 FEMININE NAPKIN DISPOSAL	16 2 X 4 A.C.T
02 WALL MOUNTED URINAL	07 SOAP DISPENSER	12 COAT HOOK	17 CONCRETE BLOCK-PAINTED
03 TOILET TISSUE DISPENSER	08 MIRROR	13 BABY CHANGING STATION	18 CERAMIC TILE BASE
04 42" GRAB BAR- 1-1/2" DIAMETER	09 TOILET PARTITION	14 NOT USED	
05 36" GRAB BAR- 1-1/2" DIAMETER	10 PAPER TOWEL DISPENSER	15 HAND DRYER	

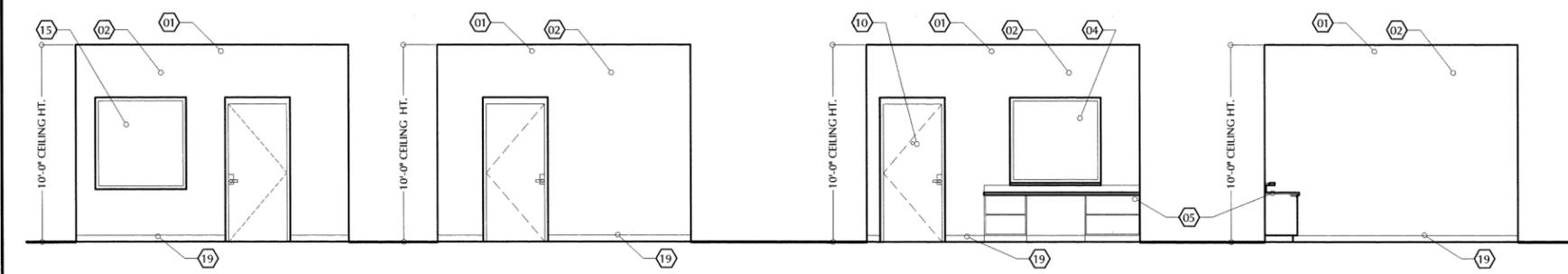


1 A6.0 INTERIOR ELEVATION-WAITING LOUNGE 102
SCALE: 1/4" = 1'-0"

2 A6.0 INTERIOR ELEVATION-WAITING LOUNGE 102
SCALE: 1/4" = 1'-0"

3 A6.0 INTERIOR ELEVATION-WAITING LOUNGE 102
SCALE: 1/4" = 1'-0"

4 A6.0 INTERIOR ELEVATION-WAITING LOUNGE 102
SCALE: 1/4" = 1'-0"



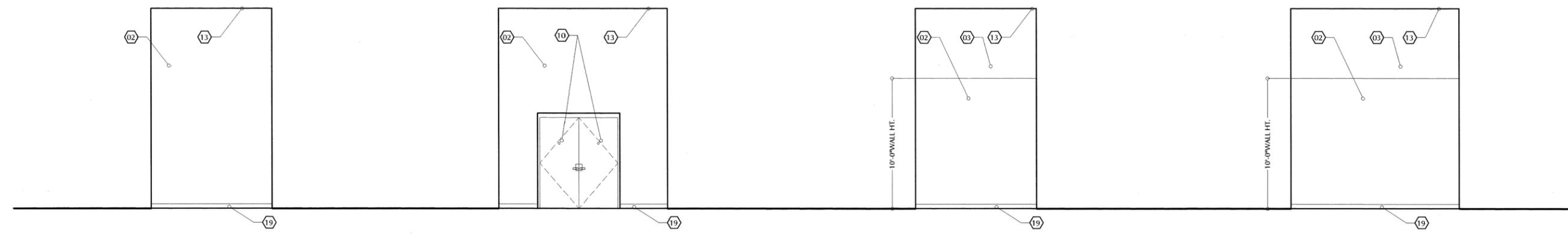
5 A6.0 INT. ELEV.-TICKET OFFICE 105
SCALE: 1/4" = 1'-0"

6 A6.0 INT. ELEV.-TICKET OFFICE 105
SCALE: 1/4" = 1'-0"

7 A6.0 INT. ELEV.-TICKET OFFICE 105
SCALE: 1/4" = 1'-0"

8 A6.0 INT. ELEV.-TICKET OFFICE 105
SCALE: 1/4" = 1'-0"

LEGEND TO INTERIOR ELEVATIONS			
01	SUSPENDED ACT. CEILING	11	STOREFRONT DOOR
02	CMU-PAINTED	12	STOREFRONT WINDOW
03	GWB-PAINTED	13	GWB @ UNDERSIDE OF STRUC.-SEE 2/A4.1
04	TICKET WINDOW	14	VENDING MACHINE AREA
05	TICKET COUNTER	15	EXTERIOR BULLET-PROOF WINDOW
06	AUTOMATIC DOOR	16	GWB CANOPY
07	SINK	17	1x4 PAINTED WOOD TRIM
08	REFRESHMENT COUNTER	18	HI-LO WATER COOLER
09	MOTION SENSOR	19	RUBBER COVE
10	PEEPHOLE		

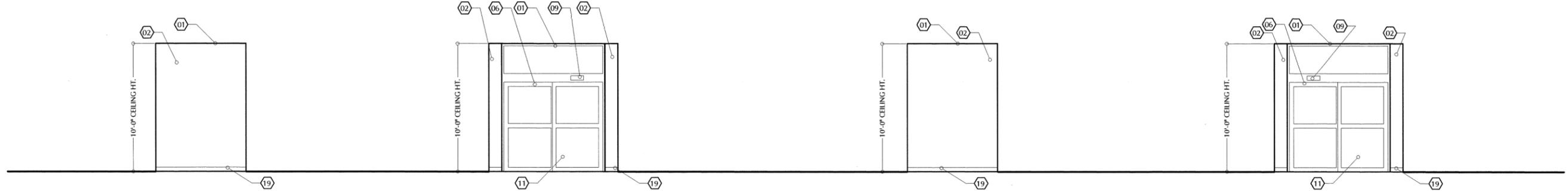


9 A6.0 INTERIOR ELEVATION-BOILER & ELECTRICAL 107
SCALE: 1/4" = 1'-0"

10 A6.0 INTERIOR ELEVATION-BOILER & ELECTRICAL 107
SCALE: 1/4" = 1'-0"

11 A6.0 INTERIOR ELEVATION-BOILER & ELECTRICAL 107
SCALE: 1/4" = 1'-0"

12 A6.0 INTERIOR ELEVATION-BOILER & ELECTRICAL 107
SCALE: 1/4" = 1'-0"



13 A6.0 INTERIOR ELEVATION-VESTIBULE 2 104
SCALE: 1/4" = 1'-0"

14 A6.0 INTERIOR ELEVATION-VESTIBULE 2 104
SCALE: 1/4" = 1'-0"

15 A6.0 INTERIOR ELEVATION-VESTIBULE 2 104
SCALE: 1/4" = 1'-0"

16 A6.0 INTERIOR ELEVATION-VESTIBULE 2 104
SCALE: 1/4" = 1'-0"



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Dover, New Hampshire

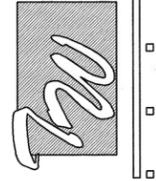
INTERIOR ELEVATIONS & LEGEND

MAY 25, 2006

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6.0



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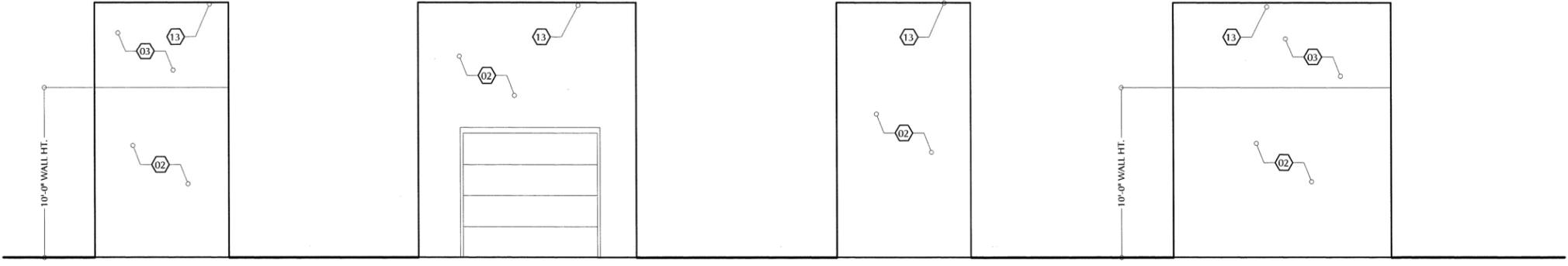


Dover Bus Facility
 Dover, New Hampshire

INTERIOR ELEVATIONS & LEGEND

MAY 25, 2006

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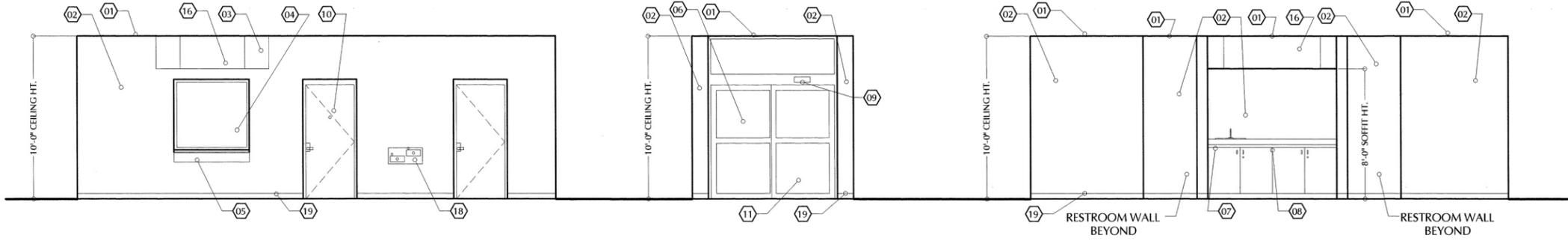


1 INT. ELEV.-EQUIPMENT RM 111
 A6.1 SCALE: 1/4" = 1'-0"

2 INT. ELEV.-EQUIPMENT RM 111
 A6.1 SCALE: 1/4" = 1'-0"

3 INT. ELEV.-EQUIPMENT RM 111
 A6.1 SCALE: 1/4" = 1'-0"

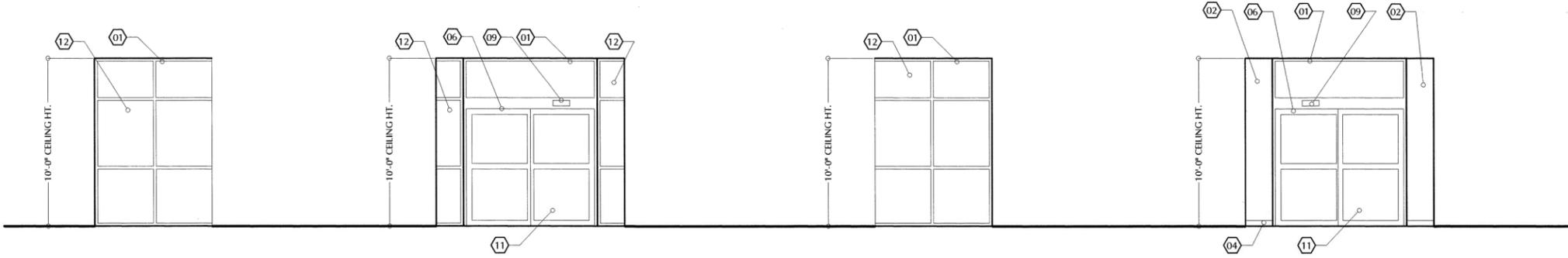
4 INT. ELEV.-EQUIPMENT RM 111
 A6.1 SCALE: 1/4" = 1'-0"



5 INTERIOR ELEVATION-CORRIDOR 103
 A6.1 SCALE: 1/4" = 1'-0"

6 INTERIOR ELEVATION-CORRIDOR 103
 A6.1 SCALE: 1/4" = 1'-0"

7 INTERIOR ELEVATION-CORRIDOR 103
 A6.1 SCALE: 1/4" = 1'-0"



8 INT. ELEV.-VESTIBULE 101
 A6.1 SCALE: 1/4" = 1'-0"

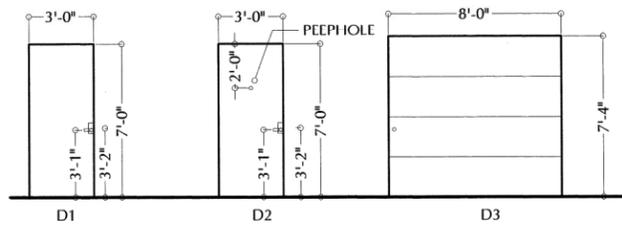
9 INT. ELEV.-VESTIBULE 101
 A6.1 SCALE: 1/4" = 1'-0"

10 INT. ELEV.-VESTIBULE 101
 A6.1 SCALE: 1/4" = 1'-0"

11 INT. ELEV.-VESTIBULE 101
 A6.1 SCALE: 1/4" = 1'-0"

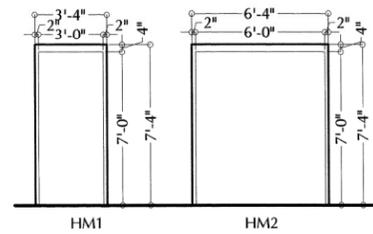
LEGEND TO INTERIOR ELEVATIONS

- | | |
|---------------------------|---|
| 01 SUSPENDED ACT. CEILING | 11 STOREFRONT DOOR |
| 02 CMU-PAINTED | 12 STOREFRONT WINDOW |
| 03 GWB-PAINTED | 13 GWB @ UNDERSIDE OF STRUC.-SEE 2/A4.1 |
| 04 TICKET WINDOW | 14 VENDING MACHINE AREA |
| 05 TICKET COUNTER | 15 EXTERIOR BULLET-PROOF WINDOW |
| 06 AUTOMATIC DOOR | 16 GWB CANOPY |
| 07 SINK | 17 1x4 PAINTED WOOD TRIM |
| 08 REFRESHMENT COUNTER | 18 HI-LO WATER COOLER |
| 09 MOTION SENSOR | 19 RUBBER COVE |
| 10 PEEPHOLE | |



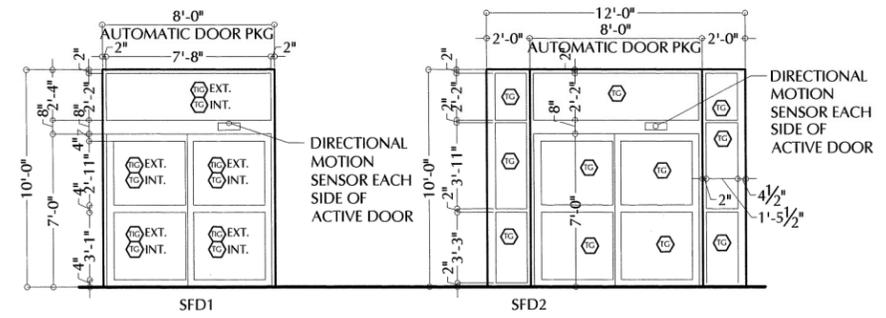
DOOR TYPES

1 A7.0 SCALE: 1/4" = 1'-0"



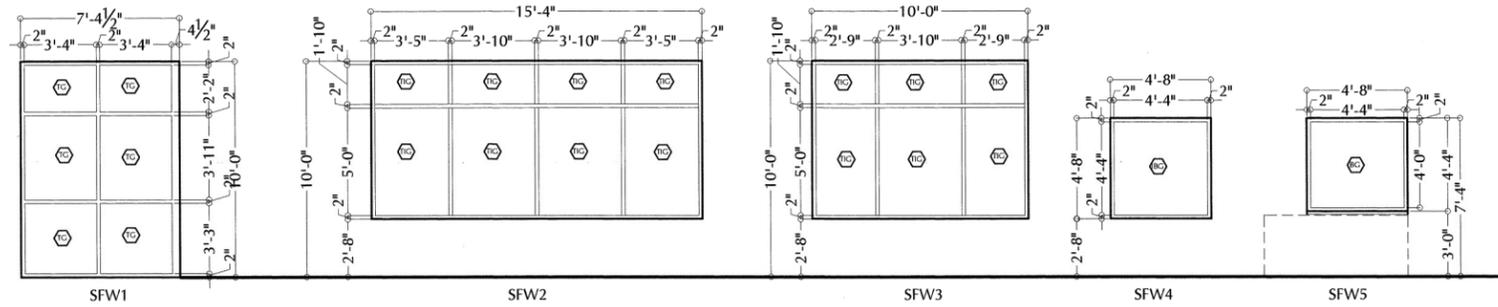
HM ASSEMBLIES

2 A7.0 SCALE: 1/4" = 1'-0"



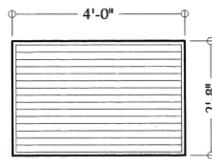
STOREFRONT DOORS

3 A7.0 SCALE: 1/4" = 1'-0"

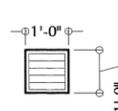


STOREFRONT WINDOWS

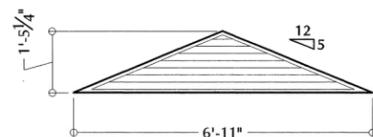
4 A7.0 SCALE: 1/4" = 1'-0"



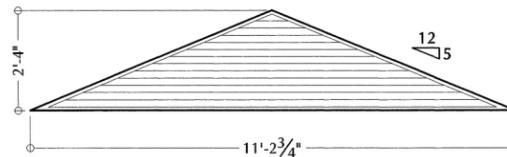
LOUVER 1 (3&4/A2.0)



LOUVER 2 (3/A2.0)



LOUVER 3 (1/A2.0)

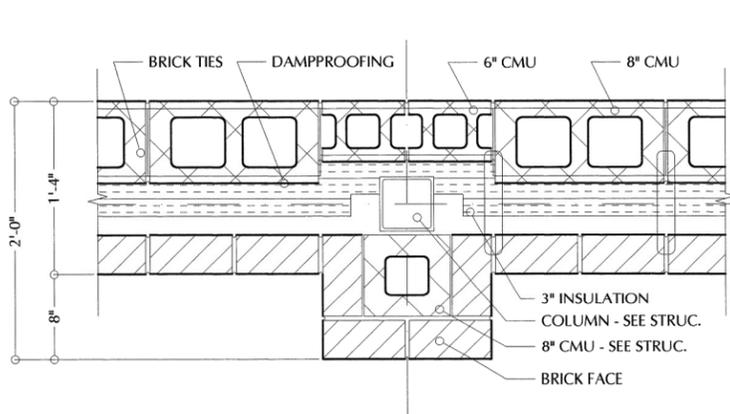


LOUVER 4 (3/A2.0)

NOTE: VERIFY/COORDINATE LOUVER SIZES W/ MECH.

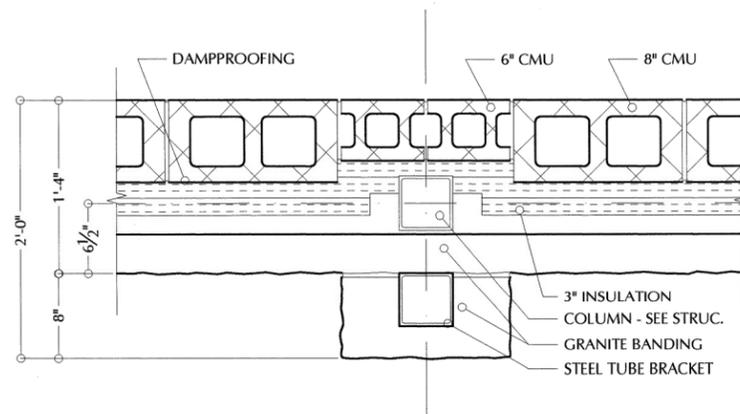
LOUVERS SEE MECH.

5 A7.0 SCALE: 1/2" = 1'-0"



PLAN DTL. @ PILASTER

7 A7.0 SCALE: 1-1/2" = 1'-0"

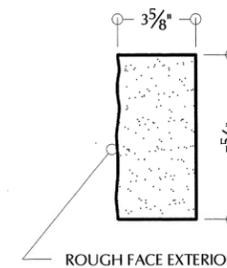


GRANITE BAND PLAN DTL. @ PILASTER

8 A7.0 SCALE: 1-1/2" = 1'-0"

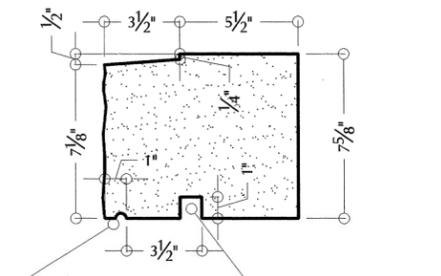
LEGEND TO GLAZING

GLAZING WITH 1/4" TEMPERED GLASS ON EXTERIOR AND LEVEL 3 BULLETPROOF GLASS ON INTERIOR OF INSULATING GLASS ASSEMBLY. MINIMUM 1/2" AIR SPACE	INTERIOR GLAZING WITH LEVEL 3 BULLETPROOF GLASS	GLAZING WITH TEMPERED GLASS ON BOTH SIDES. MINIMUM 3/4" THICK INSULATED GLASS ASSEMBLY FOR DOORS. 1" THICK INSULATED GLASS ASSEMBLY FOR WINDOWS LOW-E GLASS FOR OUTBOARD PANE
TEMPERED GLASS		



ROUGH FACE EXTERIOR

GRANITE BAND

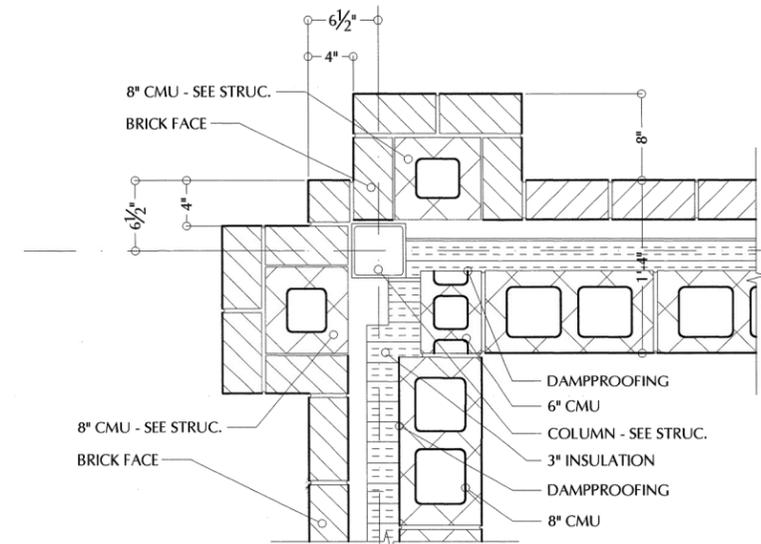


1/2" DIA. KERF

GRANITE SILL

GRANITE BANDING DETAILS

6 A7.0 SCALE: 3" = 1'-0"

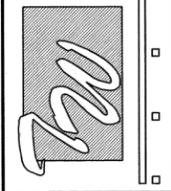


PLAN DTL. @ CORNER - TYP.

9 A7.0 SCALE: 1-1/2" = 1'-0"



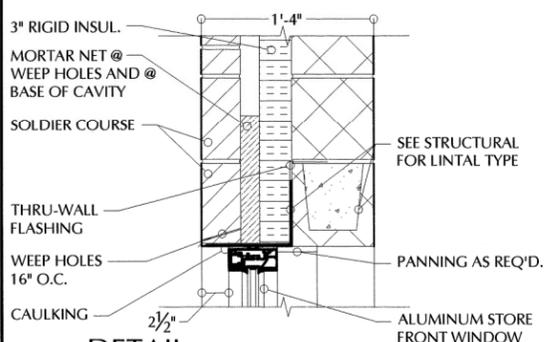
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 83 AMHERST STREET MANCHESTER, NH 03101
 TEL (603) 669-5855 FAX (603) 669-3904



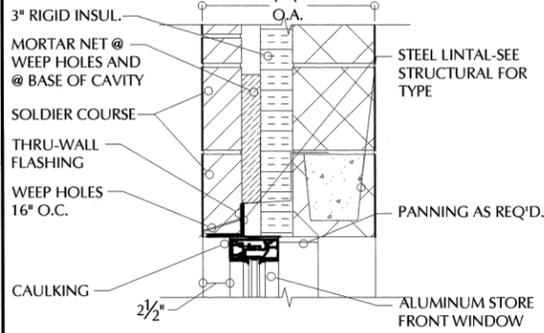
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STOREFRONT & DETAILS
 MAY 25, 2006

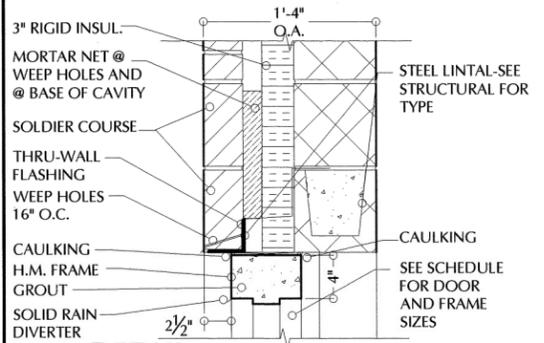
A
 7.0



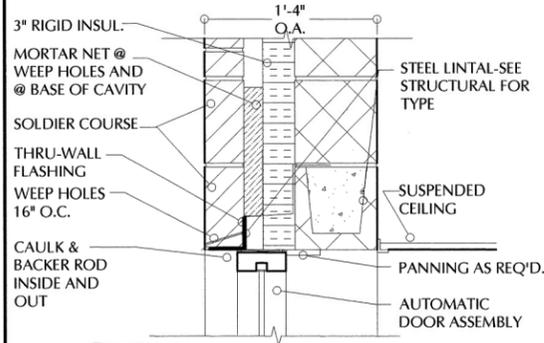
1
A7.1
DETAIL HEAD AT LARGE STOREFRONT
SCALE: 1-1/2" = 1'-0"



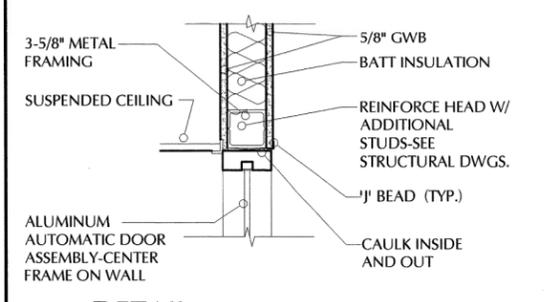
2
A7.1
DETAIL HEAD AT TYPICAL WINDOW
SCALE: 1-1/2" = 1'-0"



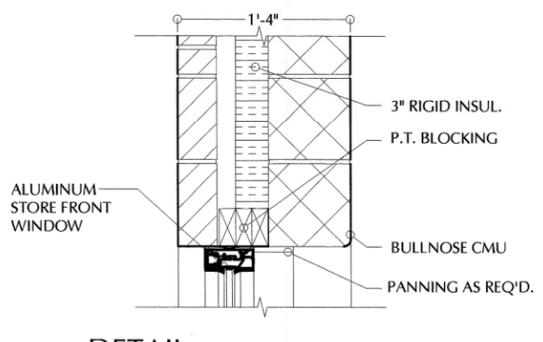
3
A7.1
DETAIL HEAD AT H.M. FRAME
SCALE: 1-1/2" = 1'-0"



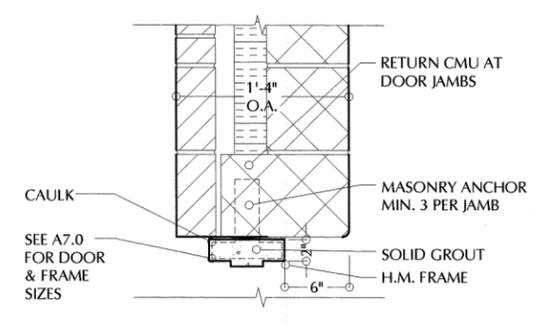
4
A7.1
DETAIL AUTOMATIC DOOR HEAD AT EXTERIOR WALL
SCALE: 1-1/2" = 1'-0"



5
A7.1
DETAIL AUTOMATIC DOOR HEAD AT INTERIOR WALL
SCALE: 1-1/2" = 1'-0"



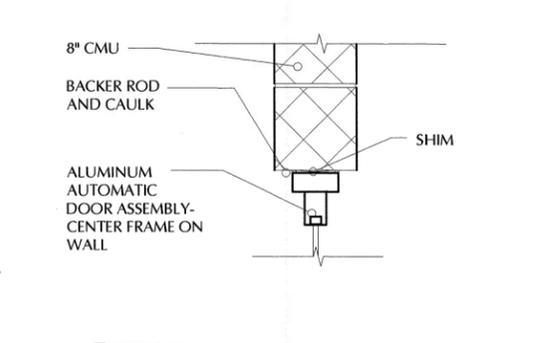
6
A7.1
DETAIL JAMB AT TYPICAL WINDOW
SCALE: 1-1/2" = 1'-0"



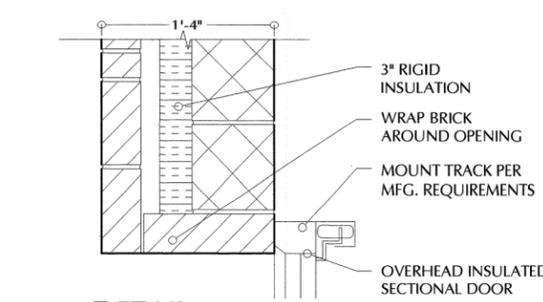
7
A7.1
DETAIL JAMB AT TYPICAL H.M. FRAME
SCALE: 1-1/2" = 1'-0"



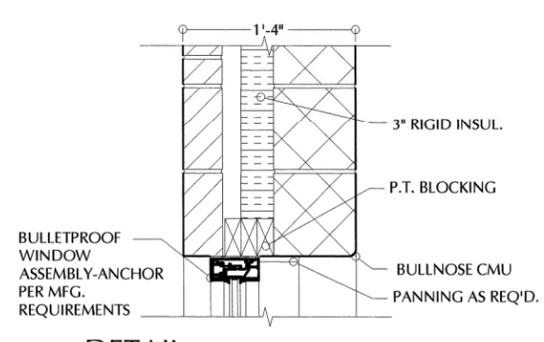
8
A7.1
NOT USED
SCALE: 1-1/2" = 1'-0"



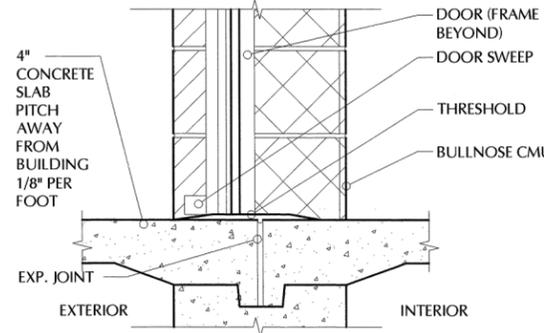
9
A7.1
DETAIL AUTOMATIC DOOR JAMB AT INTERIOR WALL
SCALE: 1-1/2" = 1'-0"



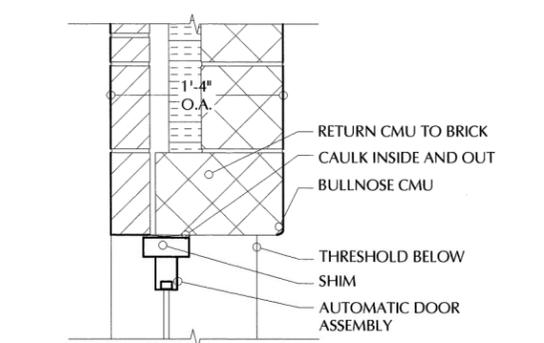
10
A7.1
DETAIL JAMB AT OVERHEAD DOOR
SCALE: 1-1/2" = 1'-0"



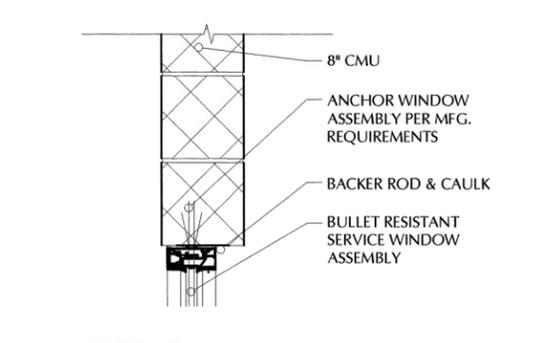
11
A7.1
DETAIL JAMB AT OFFICE WINDOW
SCALE: 1-1/2" = 1'-0"



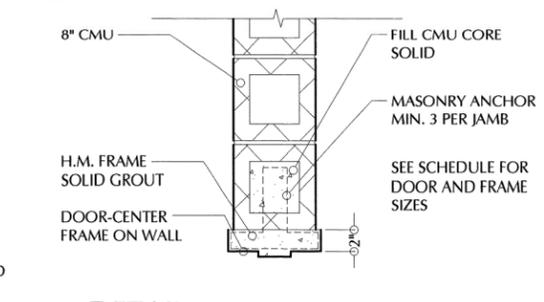
12
A7.1
DETAIL SILL AT EXTERIOR DOOR
SCALE: 1-1/2" = 1'-0"



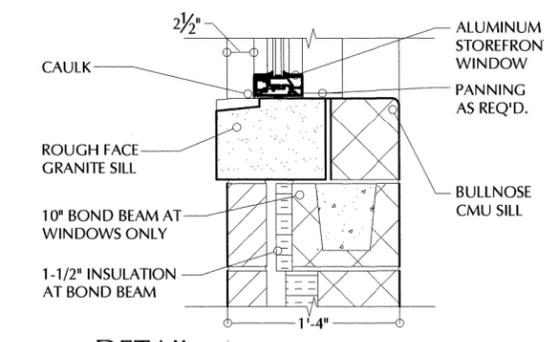
13
A7.1
DETAIL AUTOMATIC DOOR JAMB AT EXTERIOR WALL
SCALE: 1-1/2" = 1'-0"



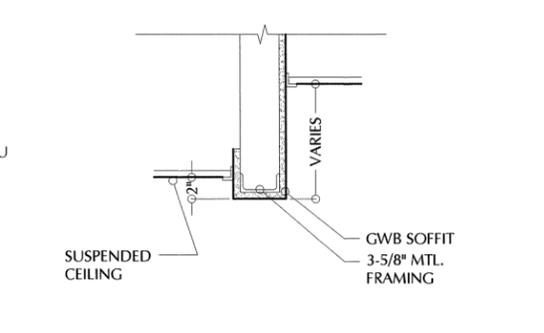
14
A7.1
DETAIL JAMB AT SERVICE WINDOW (HEAD SIM.)
SCALE: 1-1/2" = 1'-0"



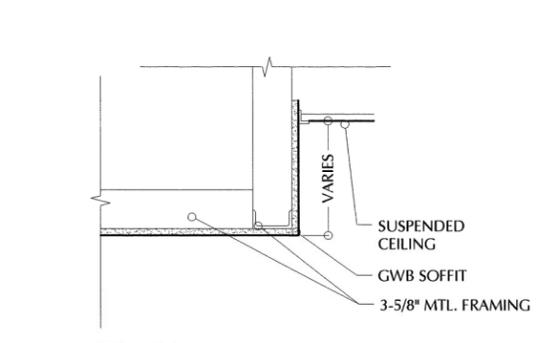
15
A7.1
DETAIL HEAD AT INT. H.M. DOOR FRAME (HEAD SIM.)
SCALE: 1-1/2" = 1'-0"



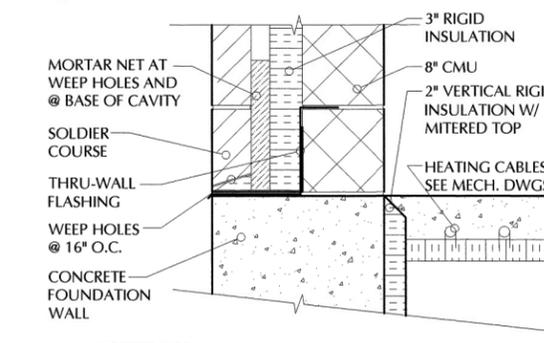
16
A7.1
DETAIL SILL AT STOREFRONT WINDOW (OFFICE SIM.)
SCALE: 1-1/2" = 1'-0"



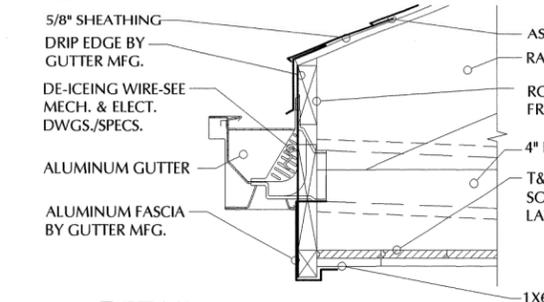
17
A7.1
DETAIL CEILING LEVEL CHANGE
SCALE: 1-1/2" = 1'-0"



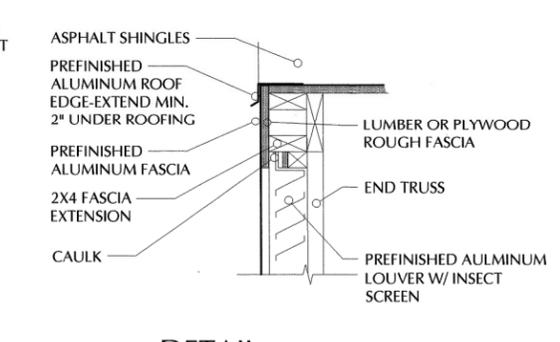
18
A7.1
DETAIL CEILING & G.W.B. SOFFIT JUNCTION
SCALE: 1-1/2" = 1'-0"



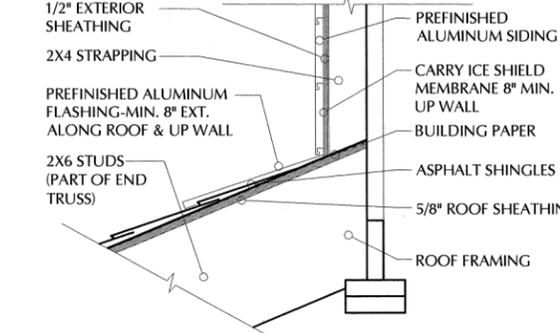
19
A7.1
DETAIL JUNCTION AT EXTERIOR WALL & SLAB
SCALE: 1-1/2" = 1'-0"



20
A7.1
DETAIL ROOF EDGE
SCALE: 1-1/2" = 1'-0"



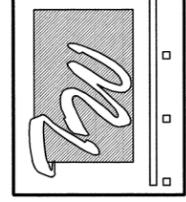
21
A7.1
DETAIL GABLE WALL FASCIA
SCALE: 1-1/2" = 1'-0"



22
A7.1
DETAIL ROOF & GABLE WALL JUNCTION
SCALE: 1-1/2" = 1'-0"



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Dover Bus Facility
Dover, New Hampshire

DETAILS
MAY 25, 2006

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GENERAL NOTES

(UNLESS OTHERWISE NOTED ON DRAWINGS OR IN SPECIFICATIONS)

GENERAL

- STRUCTURAL WORK SHALL CONFORM TO REQUIREMENTS OF THE "INTERNATIONAL BUILDING CODE - 2000".
- THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT. ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY. THEREFORE, ALL CONTRACT DRAWINGS AND SPECIFICATIONS MUST BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION. ANY DISCREPANCY BETWEEN STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS, IF NOT CLARIFIED IN THE ADDENDA AT THE REQUEST OF THE CONTRACTOR, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING CONSTRUCTION FOR CLARIFICATION. THIS SHALL BE TAKEN INTO CONSIDERATION IN THE CONTRACTOR'S BID.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ALL DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT TRADES PRIOR TO INITIATION OF ANY WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, SITE, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS, APPROVED SHOP DRAWINGS, AND SPECIFICATIONS.
- REFER TO ARCHITECTURAL, SITE, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL CHASES, SLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS SHALL BE INCLUDED.
- SHOP DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, AND PREFABRICATED WOOD TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED REVIEW RECEIVED BEFORE FABRICATION MAY PROCEED. FABRICATION AND ERECTION SHALL PROCEED FROM REVIEWED SHOP DRAWINGS ONLY.
- NOTES AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

DESIGN LIVE LOADS (2000 IBC)

- DEAD LOADS
 - WEIGHT OF BUILDING COMPONENTS 12 PSF ROOFING SYSTEM
- SNOW LOADS
 - GROUND SNOW LOAD $P(g) = 60$ PSF
 - FLAT ROOF SNOW LOAD $P(f) = 42$ PSF
 - SNOW EXPOSURE FACTOR $C(e) = 1.0$
 - SNOW IMPORTANCE FACTOR $I(s) = 1.0$
 - THERMAL FACTOR $C(t) = 1.0$
 - ROOF SLOPE FACTOR $C(s) = 1.0$
 - SNOW DRIFT AND SLIDING PARA 1608.7 TO 1608.9
- LIVE LOADS
 - SLABS ON GRADE 150 PSF
- WIND LOADS - MAIN WIND FORCE RESISTING SYSTEM (MWFRS)
 - BASIC WIND SPEED (3 - SECOND GUST) $V(3s) = 95$ MPH
 - WIND IMPORTANCE FACTOR $I(w) = 1.00$
 - WIND EXPOSURE CATEGORY B
- SEISMIC LOADS
 - SEISMIC USE GROUP 1
 - DESIGN SPECTRAL RESPONSE ACCELERATION:
 - FOR SHORT PERIODS $S(DS) = 0.29 g$
 - FOR 1-SECOND PERIOD $S(D1) = 0.11 g$
 - SITE CLASS B
 - SEISMIC DESIGN CATEGORY C
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
 - RESPONSE MODIFICATION COEFFICIENT $R = 3$
 - DEFLECTION AMPLIFICATION FACTOR $C(d) = 2.25$
 - SEISMIC IMPORTANCE FACTOR $I(E) = 1.0$

FOUNDATION

- FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY R.W. GILLESPIE & ASSOCIATES, INC. DATED JUNE 11, 2001.
- THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, BORING LOGS, OR TEST PITS. THIS DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THOSE SPECIFIED LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT AND RELOCATE, AS REQUIRED, ANY EXISTING UTILITY LINES THAT MAY INTERFERE WITH NEW FOUNDATIONS. THE CONTRACTOR SHALL REMOVE ANY EXISTING UTILITY LINES THAT ARE BEING ABANDONED IN THE VICINITY OF THE NEW FOUNDATION AND BACKFILL THE AREA WITH COMPACTED STRUCTURAL FILL.
- THE BOTTOM SURFACE OF ALL SPREAD FOOTINGS SHALL REST ON A 4" THICK LAYER OF COMPACTED CRUSHED STONE OVER UNDISTURBED APPROVED SOIL OR COMPACTED STRUCTURAL FILL, WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 1.5 TONS PER SQUARE FOOT. REMOVE ALL ORGANICS, CLAYS, SILTS, OR UNSUITABLE OR UNCOMPACTED FILL MATERIALS FROM BENEATH NEW FOOTINGS AND REPLACE WITH COMPACTED STRUCTURAL FILL.
- THE ESTIMATED BOTTOM ELEVATION OF EACH FOOTING IS INDICATED THUS [X'-X"] ON PLAN. THE BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT EXTERIOR FINISH GRADE.
- PROVIDE 12" MINIMUM OF COMPACTED STRUCTURAL FILL UNDER GROUND FLOOR SLABS ON GRADE.
- BACKFILL UNDER STRUCTURAL SLABS, MATS, AND FOOTINGS SHALL BE ENGINEERED BACKFILL COMPACTED IN SPECIFIED LIFTS TO 95 PERCENT OF MAXIMUM DENSITY, UNLESS OTHERWISE INDICATED OR SPECIFIED. REFER TO GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- VERIFY LOCATIONS AND REQUIREMENTS FOR INSERTS, SLEEVES, CONDUITS, EMBEDMENTS, AND PENETRATIONS WITH RESPECTIVE TRADES BEFORE PLACING CONCRETE.
- FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS NOTED OTHERWISE.
- DOWELS FROM FOUNDATIONS INTO PIERS, COLUMNS, BUTTRESSES, OR WALLS SHALL BE THE SAME SIZE AND NUMBER AS REINFORCEMENT IN PIERS, COLUMNS, AND BUTTRESSES, OR WALLS ABOVE, UNLESS NOTED OTHERWISE.
- NO CONCRETE SHALL BE PLACED UNDER WATER OR ON FROZEN SUBGRADE. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL PROJECT IS COMPLETED.

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI STANDARD 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 3000 PSI EXCEPT EXTERIOR PAVING SHALL BE 4000 PSI.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60, AND SHALL BE DEFORMED. LAP ALL CONTINUOUS BARS 48 DIAMETERS. PROVIDE MATCHING CORNER AND INTERSECTION BARS. PROVIDE CLASS B SPLICES FOR ALL TENSION SPLICES IN BEAMS AND SLABS, UNLESS NOTED OTHERWISE.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185. LAP ONE AND ONE-HALF SQUARES AT ALL JOINTS AND TIE AT 3'-0" O.C.
- CLEAR CONCRETE PROTECTION FOR REINFORCING:
 - FOOTINGS: 3"
 - FOUNDATION WALLS: 1/2"
 - SLABS ON GRADE: 1/2" FROM TOP
 - SLABS ON STEEL DECK: 1" FROM TOP
 - PIERS: 2" TO TIES
 - PILASTERS: 1/2" TO TIES
- NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL, WITH THE APPROVAL OF THE ENGINEER.
- NO CHASES, OPENINGS OR SLEEVES SHALL BE INSTALLED IN CONCRETE WITHOUT APPROVAL OF THE ENGINEER.
- LINES OF CONDUIT SHALL BE SPACED NOT CLOSER THAN 3 DIAMETERS ON CENTER. MAXIMUM SIZE OF CONDUIT IN SLAB = 1/4 SLAB THICKNESS.
- ALL KEYS SHALL BE 2" x 4" MINIMUM WITH BEVELED SIDES.
- ALL COLUMN, PIER AND PILASTER DOWELS SHALL BE SET BY TEMPLATE. ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE.
- HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING EXTENDED A MINIMUM OF 48 DIAMETERS.
- DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION.

CONCRETE MASONRY

- CONCRETE MASONRY CONSTRUCTION WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS AND COMMENTARY FOR MASONRY STRUCTURES (ACI 530/530R -02)" AND "SPECIFICATIONS FOR MASONRY STRUCTURES AND RELATED COMMENTARIES (ACI 530.1/530.1R -02)". CONCRETE MASONRY WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOW LIFT GROUTING METHOD.
- CONCRETE MASONRY STRENGTH (f_m) SHALL NOT BE LESS THAN 1500 PSI WITH SPECIAL INSPECTION.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE 1 AND TO NCMA "REQUIREMENTS FOR LOAD BEARING CONCRETE MASONRY". COMPRESSIVE STRENGTH SHALL BE AS REQUIRED FOR SPECIFIED CONCRETE MASONRY STRENGTH (f_m), BUT NOT LESS THAN 1900 PSI FOR THE AVERAGE OF 3 UNITS OR 1700 PSI FOR AN INDIVIDUAL UNIT, BASED ON THE AVERAGE NET AREA.
- MORTAR FOR REINFORCED CMU SHALL CONFORM TO ASTM C270, TYPE M OR S, AND HAVE A 28-DAY COMPRESSIVE STRENGTH NOT LESS THAN 1800 PSI.
- GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED CONCRETE MASONRY STRENGTH (f_m), BUT NOT LESS THAN 3000 PSI.
- GROUTING SHALL BE LIMITED TO A MAXIMUM WALL HEIGHT OF 4 FT PER LIFT.
- HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A82, LADDER TYPE, #9 WIRE. PROVIDE PREFABRICATED CORNERS AND TEES.
- MINIMUM HORIZONTAL JOINT REINFORCEMENT FOR WALLS AND PARTITIONS SHALL BE #9 WIRE SPACED VERTICALLY AT 16" O.C. AT A MINIMUM, PROVIDE A BOND BEAM, WITH 2-#5 HORIZONTAL AND CONTINUOUS BARS, AT EACH FLOOR LEVEL AND AT THE TOP OF WALL.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. LAP ALL CONTINUOUS BARS A MINIMUM OF 48 DIAMETERS.
- STAIR AND ELEVATOR SHAFT WALLS SHALL BE FULLY GROUTED SOLID AND IN ADDITION TO HORIZONTAL REINFORCEMENT SHALL BE REINFORCED VERTICALLY WITH A MINIMUM OF #5 BARS AT 32" O.C., UNLESS NOTED.
- THE TOP OF CMU WALLS AND PARTITIONS SHALL BE ANCHORED AS SHOWN IN THE TYPICAL DETAILS AND THE SECTIONS.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FIRE RATINGS.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 - SHAPES: ASTM A 992 or A 588 GRADE B $F_y = 50$ KSI
 - PLATES: ASTM A 36 $F_y = 36$ KSI
 - TUBES: ASTM A 500 GRADE B $F_y = 46$ KSI
 - PIPES: ASTM A 53 GRADE B $F_y = 35$ KSI
- ALL SHOP CONNECTIONS SHALL BE WELDED TO CONFORM TO SPECIFICATION ASTM A 233, E70 SERIES OR BOLTED TO CONFORM TO ASTM A 325.
- UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE BOLTED TO CONFORM TO ASTM A 325, TYPE N BOLTS. EXCEPT AT LATERAL BRACING FRAMES, CONNECTIONS SHALL BE BOLTED TO CONFORM TO ASTM A 325, TYPE SC BOLTS.
- PROVIDE 1/2" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES. LEVELING PLATES SHALL BE SET AND GROUTED SOLID WITH AN APPROVED NON-SHRINK GROUT BEFORE ERECTION OF COLUMN.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 FOR 3/4" BOLTS OR ASTM F1554 GRADE 55 FOR 1" BOLTS UNLESS OTHERWISE NOTED. ALL ANCHOR BOLTS SHALL BE HEADED TYPE.
- PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE AT ALL BEAMS OVER COLUMNS AND AT ALL COLUMNS OVER BEAMS, UNLESS OTHERWISE NOTED.
- ALL STEEL EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED.
- SEE SPECIFICATIONS FOR SURFACE PREPARATION AND PAINTING REQUIREMENTS.
- STEEL EXPOSED IN THE FINISH WORK SHALL COMPLY WITH THE FINISH REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) OUTLINED IN THE PROJECT SPECIFICATIONS. AESS STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. (AESS STEEL INCLUDES EXPOSED ROOF BRACKETS TO BE PROVIDED UNDER MISCELLANEOUS METALS - NOT SHOWN ON STRUCTURAL DRAWINGS).

WOOD FRAMING

- STRUCTURAL LUMBER SHALL CONFORM TO THE NFPA, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND SUPPLEMENT, "DESIGN VALUES FOR WOOD CONSTRUCTION" LATEST EDITION. MAXIMUM MOISTURE CONTENT SHALL BE 19%.
- WOOD SHALL BE SPRUCE-PINE-FIR (SPF) NO. 2 OR BETTER, INCLUDING RAFTERS, BEAMS, STUDS, POSTS AND PLATES.
- FOUNDATION SILLS SHALL BE PRESERVATIVE PRESSURE TREATED SOUTHERN PINE NO. 2 OR BETTER.
- WOOD EXPOSED TO WEATHER SHALL BE PRESERVATIVE PRESSURE TREATED SOUTHERN PINE NO. 2 OR BETTER.
- LAMINATED STRAND LUMBER (LSL) SHALL BE TIMBERSTRAND, LAMINATED VENEER LUMBER (LVL) SHALL BE MICRO-LAM AND PARALLEL STRAND LUMBER (PSL) SHALL BE PARALLAM AS MANUFACTURED BY TRUS JOIST MACMILLAN, OR EQUAL.
- ENGINEERED I - JOISTS SHALL BE TJI JOISTS AS MANUFACTURED BY TRUS JOIST MACMILLAN, OR APPROVED EQUAL.
- FLUSH FRAMED CONNECTIONS SHALL HAVE METAL BEAM OR JOIST HANGERS, MANUFACTURED BY SIMPSON STRONG-TIE CO., INC., OR EQUAL.
- ALL INDIVIDUAL POSTS SHALL HAVE METAL CAPS AND BASES, MANUFACTURED BY SIMPSON STRONG-TIE CO., INC., OR EQUAL.
- ROOF SHEATHING SHALL BE 5/8" EXTERIOR STRUCTURAL-I RATED APA SHEATHING WITH 10d NAILS 6" o.c. AT EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS. PROVIDE "H" CLIPS AT PANEL EDGES.
- WALL SHEATHING SHALL BE 1/2" EXTERIOR APA PLYWOOD WITH 8d NAILS 6" o.c. AT EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS.
- PLYWOOD SHALL HAVE STAGGERED JOINTS AND NAILS SHALL BE THREADED. ALL PLYWOOD SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
- NAILING SHALL BE IN ACCORDANCE WITH THE IBC 2000 BUILDING CODE, TABLE 2304.9.1, UNLESS OTHERWISE NOTED.
- ROOF JOISTS/RAFTERS SHALL BE BRIDGED AT 8'-0" o.c. MAX.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AND RAFTERS OVER ALL SUPPORTS.
- NOTCHING OF JOISTS, RAFTERS, BEAMS, STUDS OR PLATES SHALL NOT BE PERMITTED UNLESS INDICATED ON DRAWINGS.

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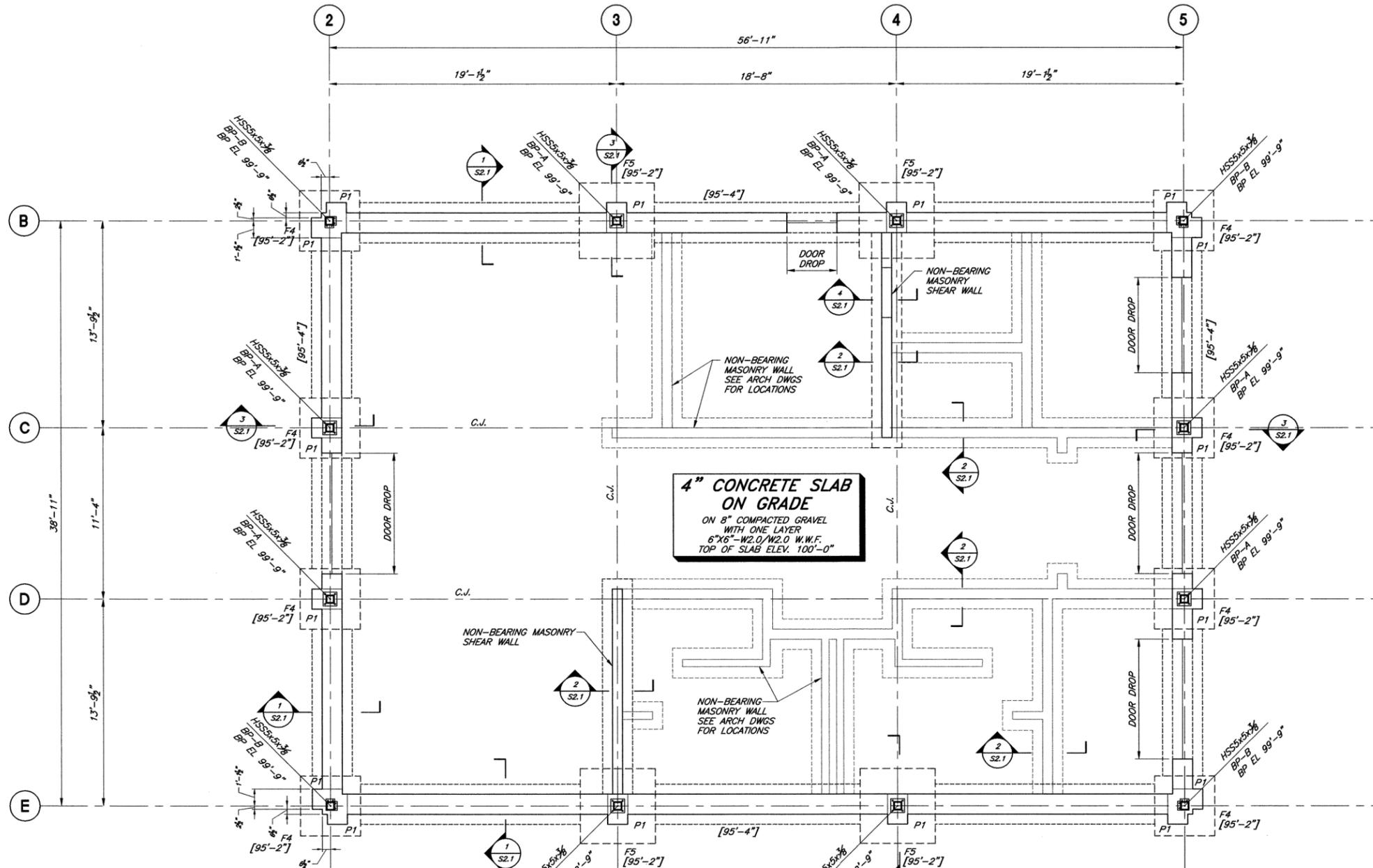
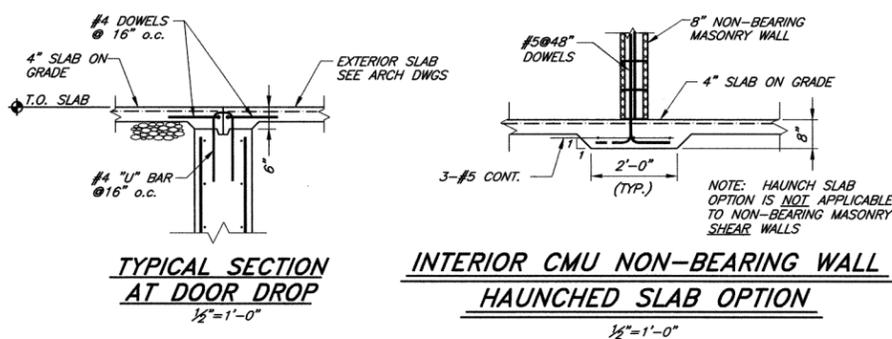
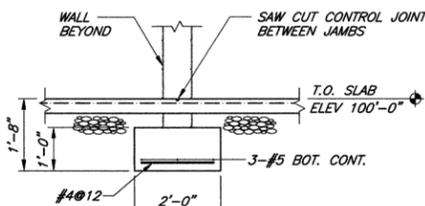
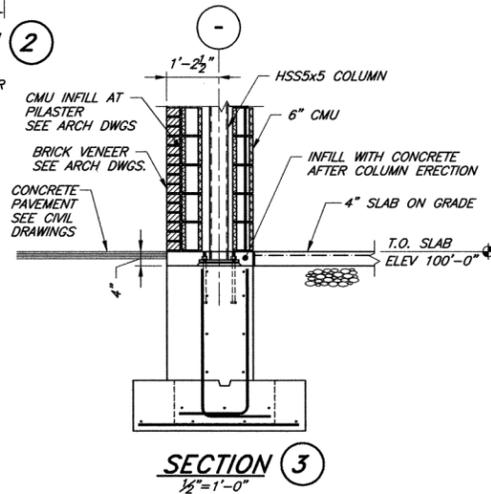
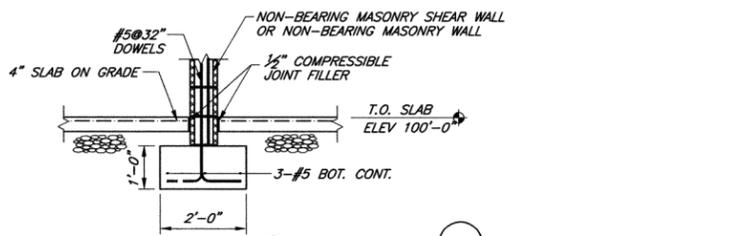
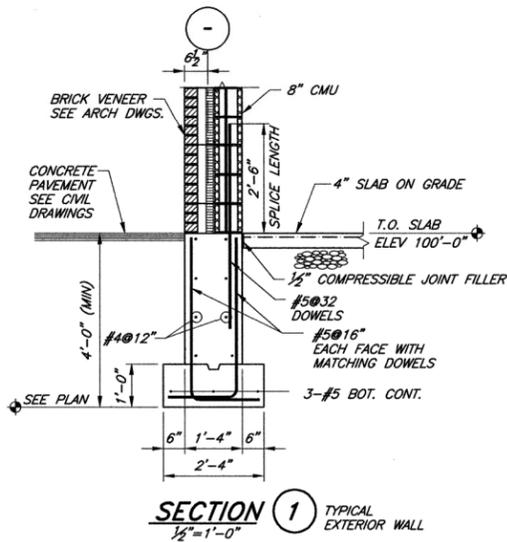
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GENERAL NOTES
AND TYPICAL
DETAILS

DATE: MAY 25, 2006

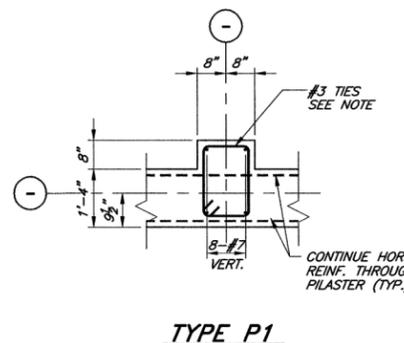
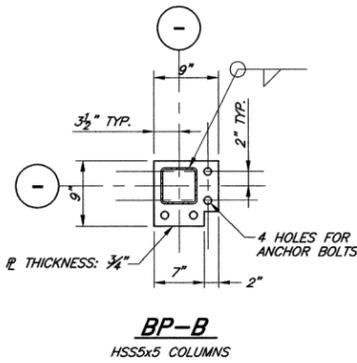
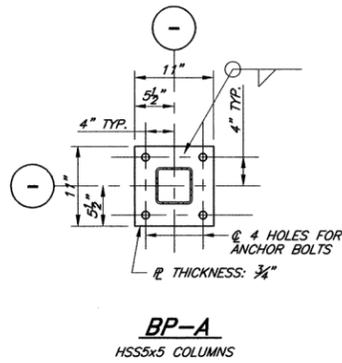


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- NOTES**
- FLOOR CONSTRUCTION SHALL BE AS NOTED ON PLAN. REFER TO STANDARD DETAILS FOR TYPICAL FOUNDATION AND SLAB ON GRADE DETAILS.
 - BOTTOM OF FOOTING ELEVATION [XX'-X"] TYP. UNLESS NOTED OTHERWISE.
 - SEE ARCHITECTURAL PLANS FOR DOOR LOCATIONS AND DIMENSIONS.
 - "C.J." INDICATES SAW CUT CONTROL JOINT - SEE STANDARD DETAILS.

FOOTING SCHEDULE		
MARK	DIMENSIONS	REINFORCEMENT
F3	3'-0" x 3'-0" x 1'-2"	4-#4 BOTTOM EACH WAY
F4	4'-0" x 4'-0" x 1'-2"	5-#5 BOTTOM EACH WAY
F5	5'-0" x 5'-0" x 1'-2"	6-#5 BOTTOM EACH WAY



NOTE: 3/4" ANCHOR BOLTS TYPICAL
BASE PLATE DETAILS
1" = 1'-0"

- NOTES:**
- TOP OF ALL PILASTERS/PIERS SHALL BE AT ELEVATION 99'-8" UNLESS OTHERWISE NOTED ON PLANS OR IN SECTIONS.
 - PROVIDE #3 TIES @ 12" O.C. PLUS PROVIDE 3 SETS OF TIES @ 3" O.C. AT TOP OF PILASTER/PIER.



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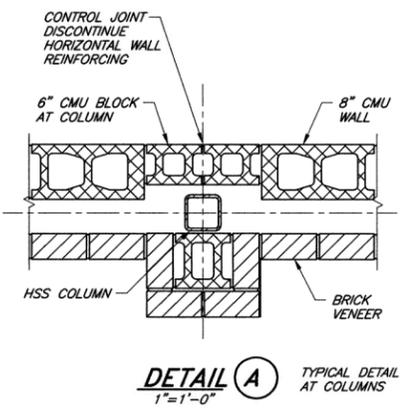
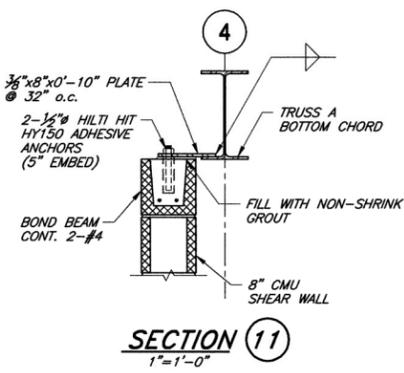
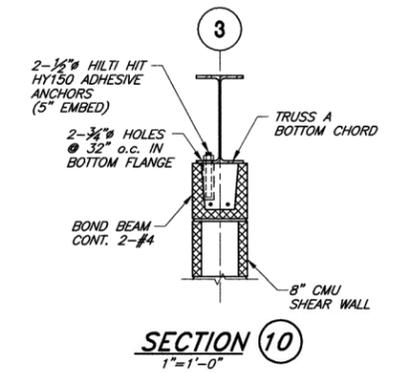
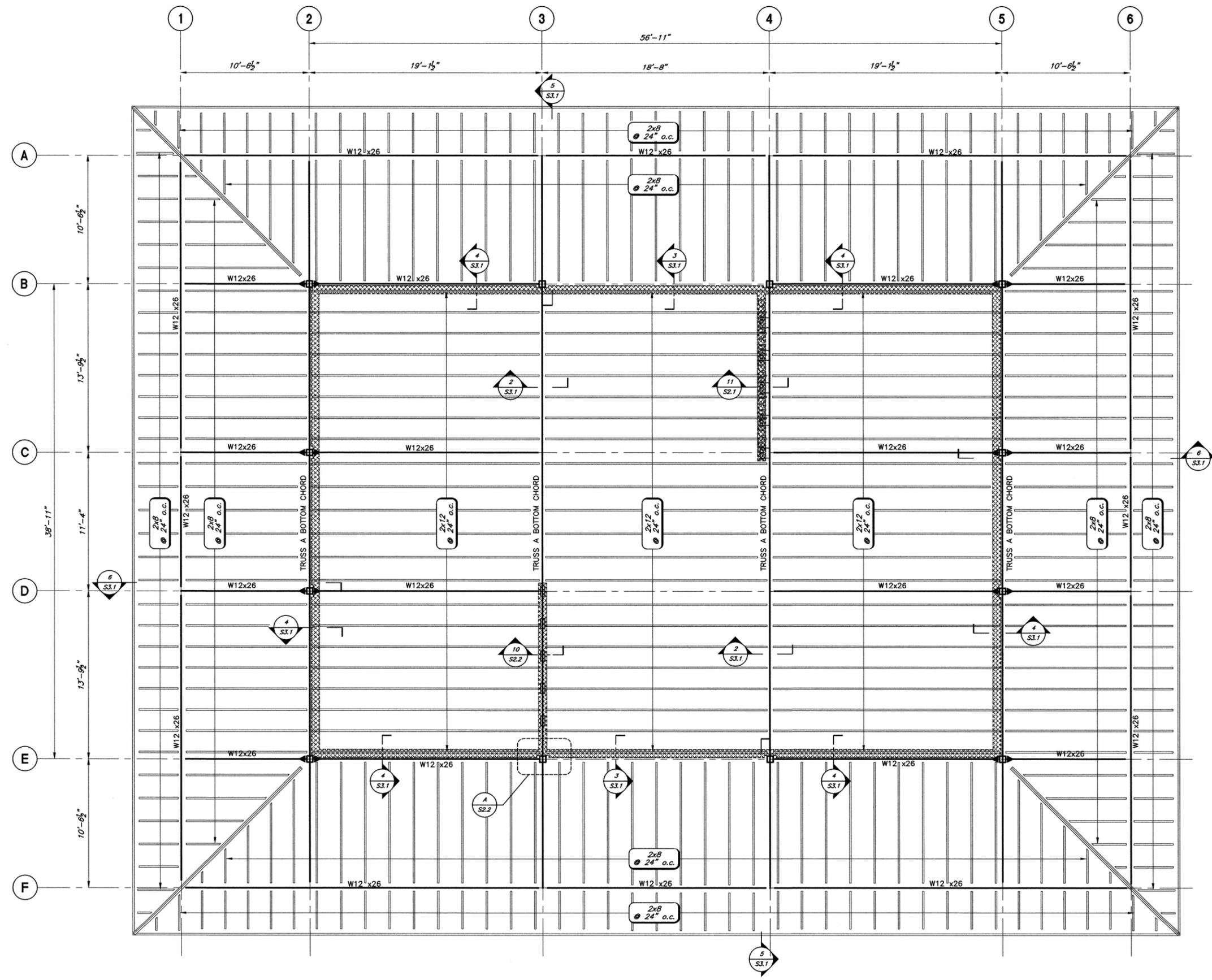
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FOUNDATION PLAN

DATE: MAY 25, 2006

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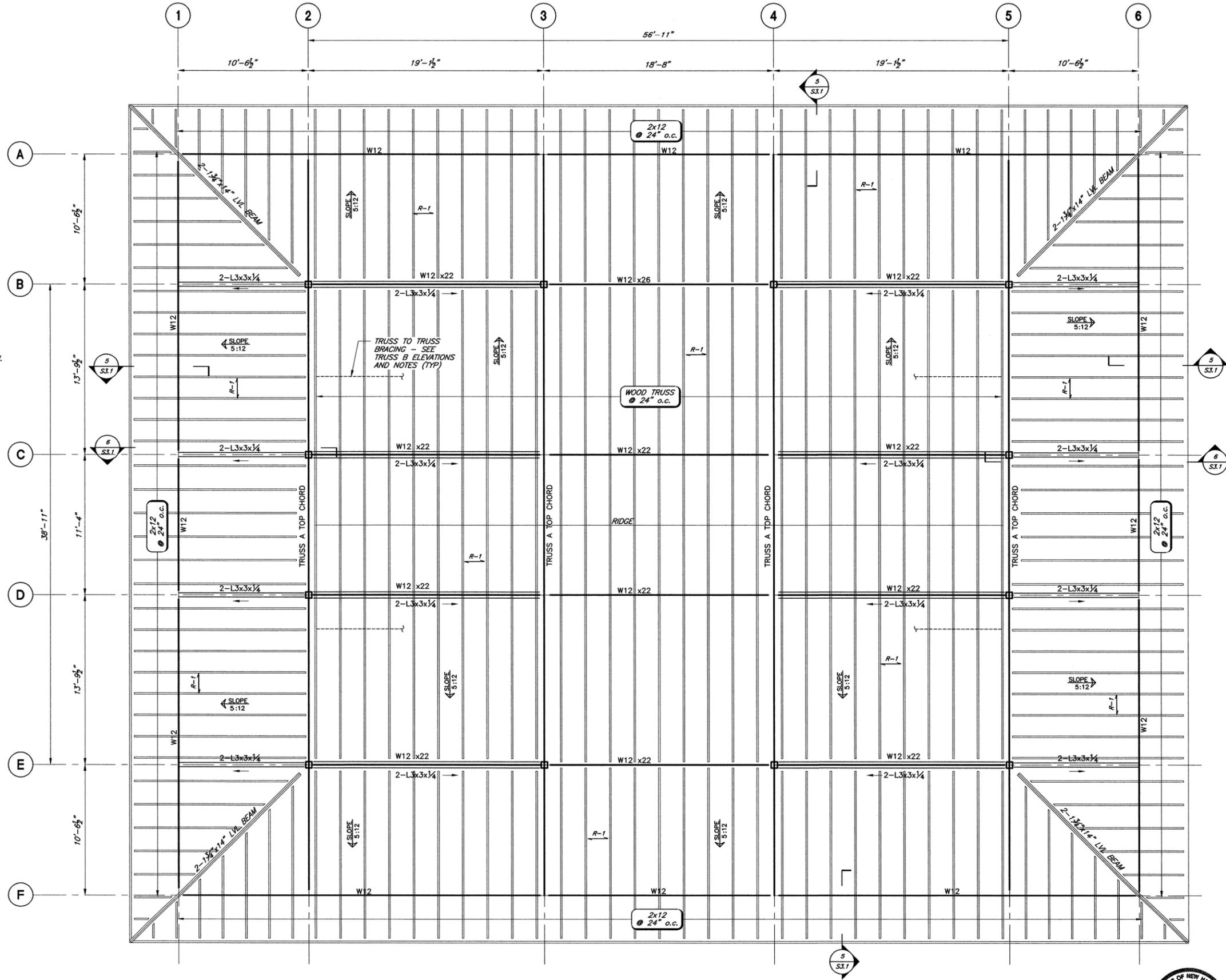


- NOTES:**
1. TOP OF MASONRY AND BOTTOM OF STEEL TRUSS A ELEVATION 115'-4".
 2. THE SYMBOL ► INDICATES A FULL CAPACITY MOMENT CONNECTION.
 3. FOR TRUSS A ELEVATION AND DETAILS SEE DRAWING S3.1

BOTTOM CHORD ROOF FRAMING PLAN
 3/4"=1'-0"



- NOTES:**
1. TOP OF MASONRY AND BOTTOM OF STEEL TRUSS A ELEVATION 115'-4".
 2. THE SYMBOL \blacktriangleright INDICATES A FULL CAPACITY MOMENT CONNECTION.
 3. FOR TRUSS A ELEVATION AND DETAILS SEE DRAWING S3.1.
 4. FOR WOOD TRUSS B ELEVATION AND DETAILS SEE DRAWINGS S3.2.
 5. R-1 ROOF CONSTRUCTION REFERS TO $\frac{3}{8}$ " THICK 32/16 APA RATED STRUCTURAL I SHEATHING - EXPOSURE 1 WITH "H" CLIPS.
 6. \rightarrow INDICATES DIRECTION OF SHEATHING OUTER PLYS.



TOP CHORD ROOF FRAMING PLAN
 $\frac{1}{4}" = 1'-0"$



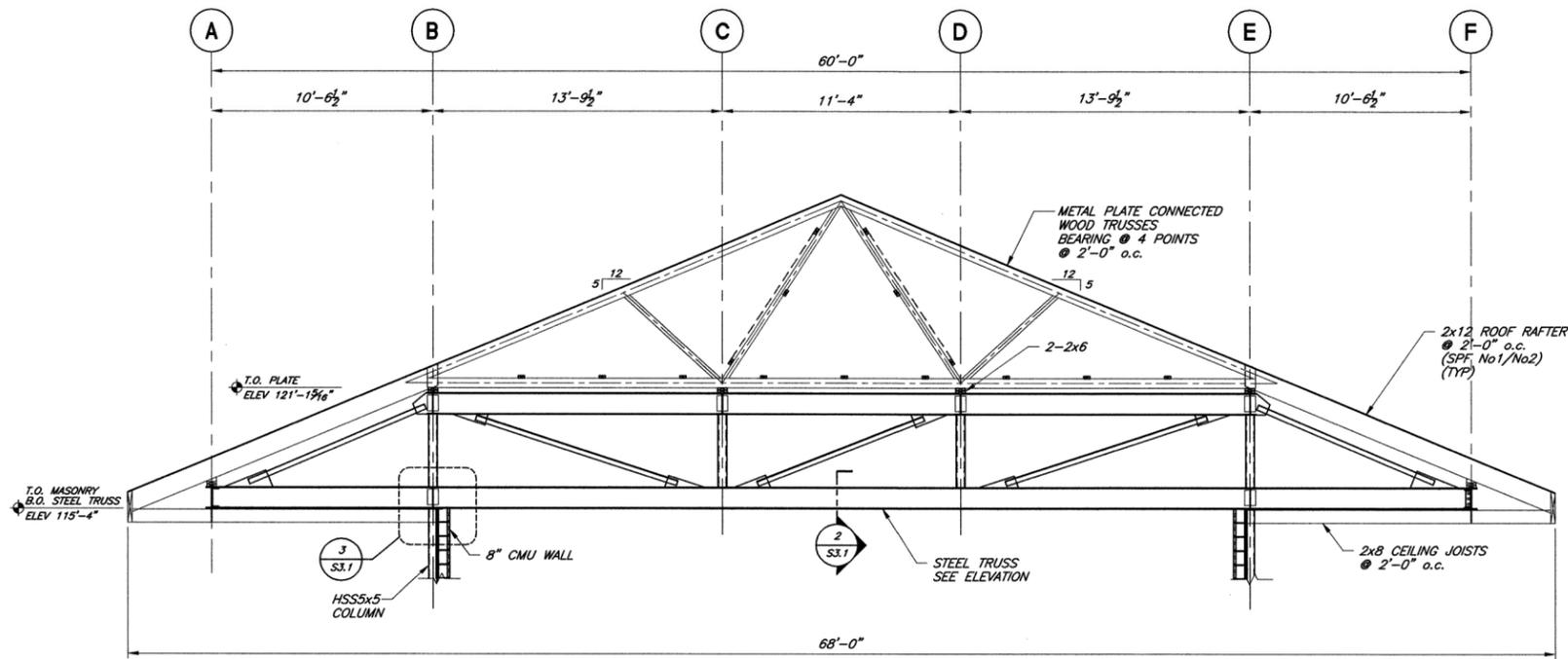
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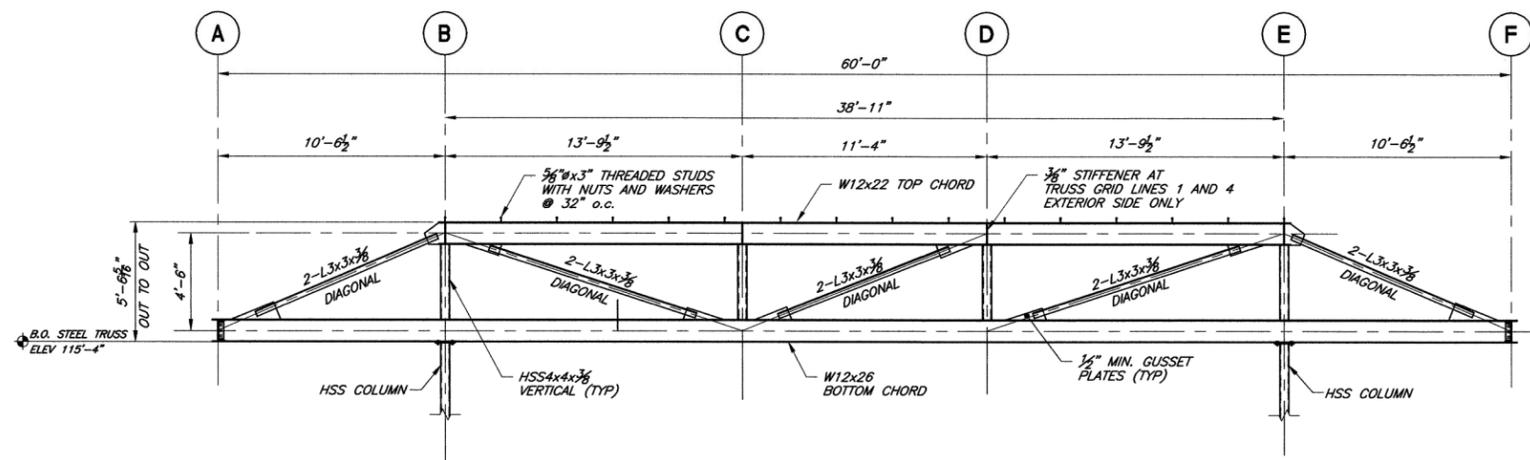
BOTTOM CHORD
 ROOF FRAMING
 PLAN
 DATE: MAY 25, 2006

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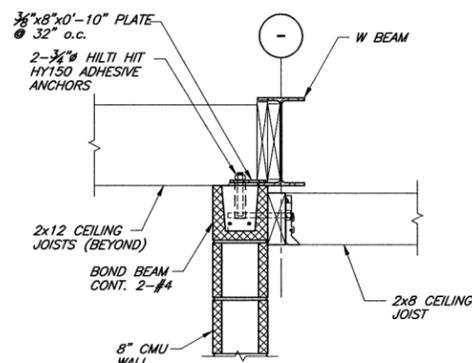
TYPICAL BUILDING SECTION

1/4" = 1'-0"



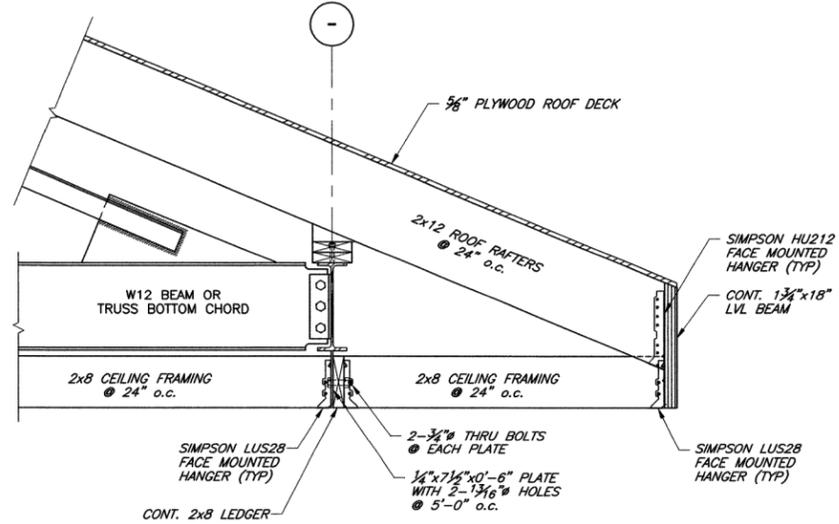
STEEL TRUSS A ELEVATION

1/4" = 1'-0"



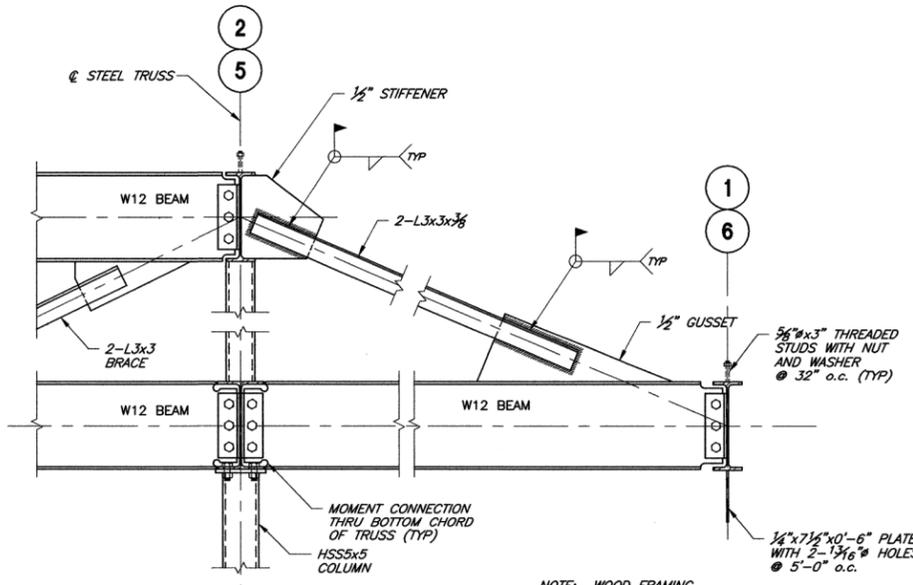
DETAIL 4

1" = 1'-0"



SECTION 5

1" = 1'-0"



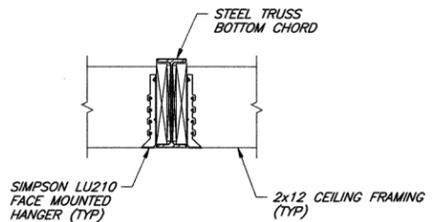
SECTION 6

1" = 1'-0"

NOTE: WOOD FRAMING NOT SHOWN FOR CLARITY

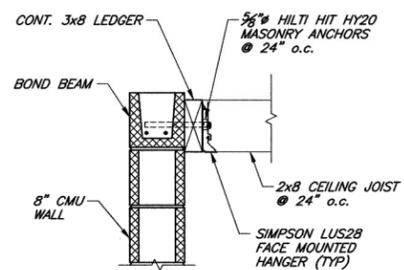
SECTION 1
TYPICAL STEEL BEAM SUPPORTING WOOD FRAMING

1" = 1'-0"



SECTION 2
TYPICAL STEEL TRUSS BOTTOM CHORD

1" = 1'-0"



DETAIL 3

1" = 1'-0"



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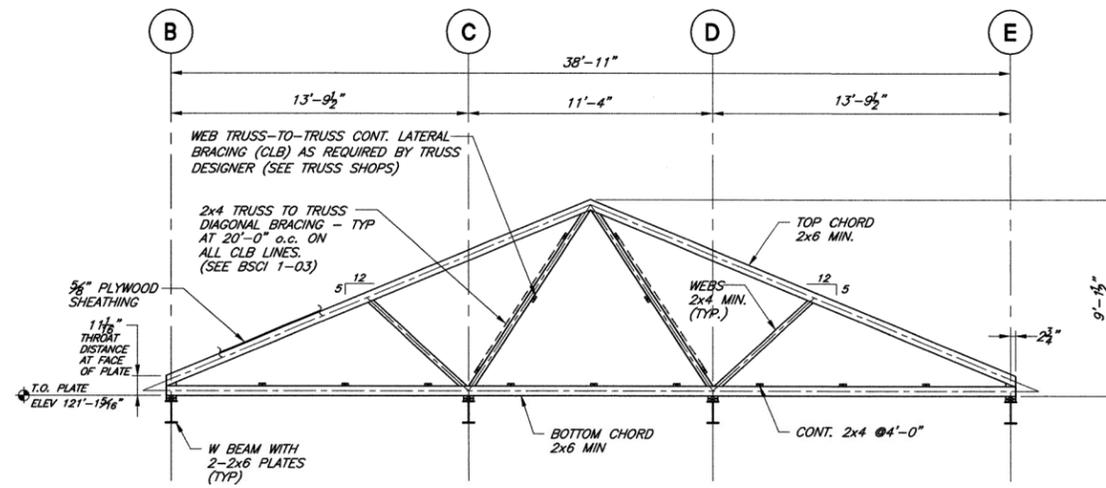
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Dover Bus Facility
Dover, New Hampshire

TRUSS ELEVATION

DATE: MAY 25, 2006

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WOOD TRUSS B ELEVATION @ 2'-0" o.c.
1/4"=1'-0"

METAL PLATE CONNECTED TRUSS NOTES:

- ALL ROOF TRUSSES SHALL CONFORM TO THE LATEST EDITION OF THE TRUSS PLATE INSTITUTE'S "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" AND SHALL BE DESIGNED FOR THE LOADINGS INDICATED ON THE DRAWINGS OR IN THESE NOTES. TOTAL AND LIVE LOAD DEFLECTIONS SHALL BE LIMITED AS FOLLOWS (UNLESS OTHERWISE INDICATED ON THE DRAWINGS):
LIVE LOAD DEFLECTION: <math>< L/600</math>
TOTAL LOAD DEFLECTION: <math>< L/480</math>
- FINAL DESIGN OF TRUSSES SHALL BE PROVIDED BY THE DESIGNER/FABRICATOR. SUBMIT COMPLETE SHOP DRAWINGS, CALCULATIONS AND ERECTION PLANS FOR ROOF TRUSSES FOR REVIEW BY THE ARCHITECT. CALCULATIONS SHALL BE PREPARED BY AND BEAR THE STAMP OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF NEW HAMPSHIRE.
- ROOF DESIGN LOADS: BASE GROUND SNOW LOAD $P_g = 60$ PSF APPLIED PER IBC 2000 CODE. MINIMUM TRUSS BASIC DESIGN LOADS: TOLL/TCDL/BCLL/BCDL = 50/10/20/10 POUNDS PER SQUARE FOOT (UNLESS NOTED OTHERWISE IN TRUSS ELEVATIONS). GENERATE ADDITIONAL LOAD COMBINATIONS AND DESIGN TRUSSES FOR UNBALANCED LOADING (DRIFTING ON ONE SIDE) PER IBC 2000/ASCE 7-98.
- WIND DESIGN LOADS ARE AS NOTED IN THE GENERAL NOTES ON S-1.
- ALL ROOF TRUSSES MUST BE SECURELY BRACED BOTH DURING ERECTION AND AS REQUIRED AFTER PERMANENT INSTALLATION. INSTALL ALL REQUIRED OR RECOMMENDED TRUSS BRACING SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS, THE TRUSS SHOP DRAWINGS, TPI/WTCA PUBLICATION BCSI 1-03 OR AS DIRECTED IN THE FIELD BY THE ARCHITECT/ENGINEER.
- MINIMUM CHORD SIZES SHALL BE AS SHOWN ON THE TRUSS ELEVATIONS ON THIS DRAWING. MINIMUM WEB MEMBER SIZES SHALL BE 2x4.
- TRUSS CHORDS SHALL BE MEL OR MSR LUMBER, 1650 F 1.3 E MINIMUM GRADE. TRUSS WEB MEMBERS SHALL BE SPRUCE-PINE-FIR, NO. 1 OR BETTER. ALL LUMBER SHALL BE 19% MAXIMUM MOISTURE CONTENT.
- TRUSS WEB CONFIGURATIONS SHOWN ON THE TRUSS ELEVATIONS ARE SCHEMATIC. FINAL WEB CONFIGURATIONS SHALL BE DETERMINED BY THE TRUSS DESIGNER/FABRICATOR.
- PROVIDE SIMPSON "H" SERIES HOLDDOWN CONNECTORS (OR EQUAL) AT ALL TRUSS BEARINGS (INTERIOR AND EXTERIOR BEARING POINTS). SELECT A HOLDDOWN THAT EXCEEDS THE UPLIFT FORCE PROVIDED IN THE TRUSS SHOP DRAWINGS.
- TRUSS SUPPORT HANGERS SHALL BE OF THE TOP FLANGE VARIETY (WHEN APPLICABLE) AND SELECTED BY THE TRUSS SUPPLIER TO MEET THE TRUSS REACTIONS INDICATED ON THE SHOP DRAWINGS. GENERAL CONTRACTOR SHALL INDICATE THE HANGER TYPE ON THE TRUSS SHOP DRAWINGS PRIOR TO SUBMITTING DRAWINGS FOR REVIEW.
- TRUSSES SHALL BE SPACED AT A MAXIMUM OF 2'-0" ON CENTER.
- FIELD MODIFICATION OF TRUSSES TO FACILITATE THE INSTALLATION OF MECHANICAL UNITS OR PIPING IS NOT PERMITTED.
- CONTINUOUS LATERAL BRACING REQUIREMENTS:**
TOP CHORD: SEE BOTH STRUCTURAL DRAWINGS AND SHOP DRAWINGS FOR UNSHEATHED PORTIONS OF TOP CHORD. USE THE MORE STRINGENT REQUIREMENT.
BOTTOM CHORD: PROVIDE CONTINUOUS LATERAL BRACING OF THE BOTTOM CHORDS OF ALL TRUSSES WITH 2x4 (MIN.) AT 4'-0" o.c. MAX. SPACING. IF GYPSUM SHEATHING IS APPLIED DIRECTLY TO THE BOTTOM CHORD, BOTTOM CHORD CONTINUOUS LATERAL BRACING MAY BE OMITTED.
WEB MEMBERS: SEE THE SHOP DRAWINGS TO IDENTIFY WEB MEMBERS THAT REQUIRE BRACING.
- CONTINUOUS LATERAL BRACING LINES (CLB) SHALL BE RESTRAINED WITH DIAGONAL OR 'X' BRACING AT EACH END OF CLB LINE AND AT 20'-0" O.C. MAX, PER BCSI 1-03 AND THE TYPICAL DETAILS ON THE CONTRACT DRAWINGS.



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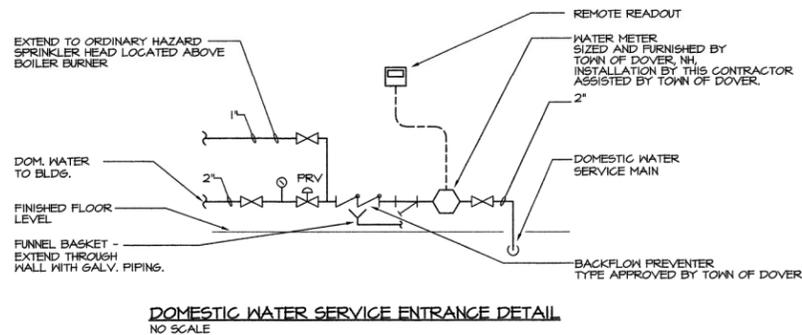
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TRUSS ELEVATION
DATE: MAY 25, 2006

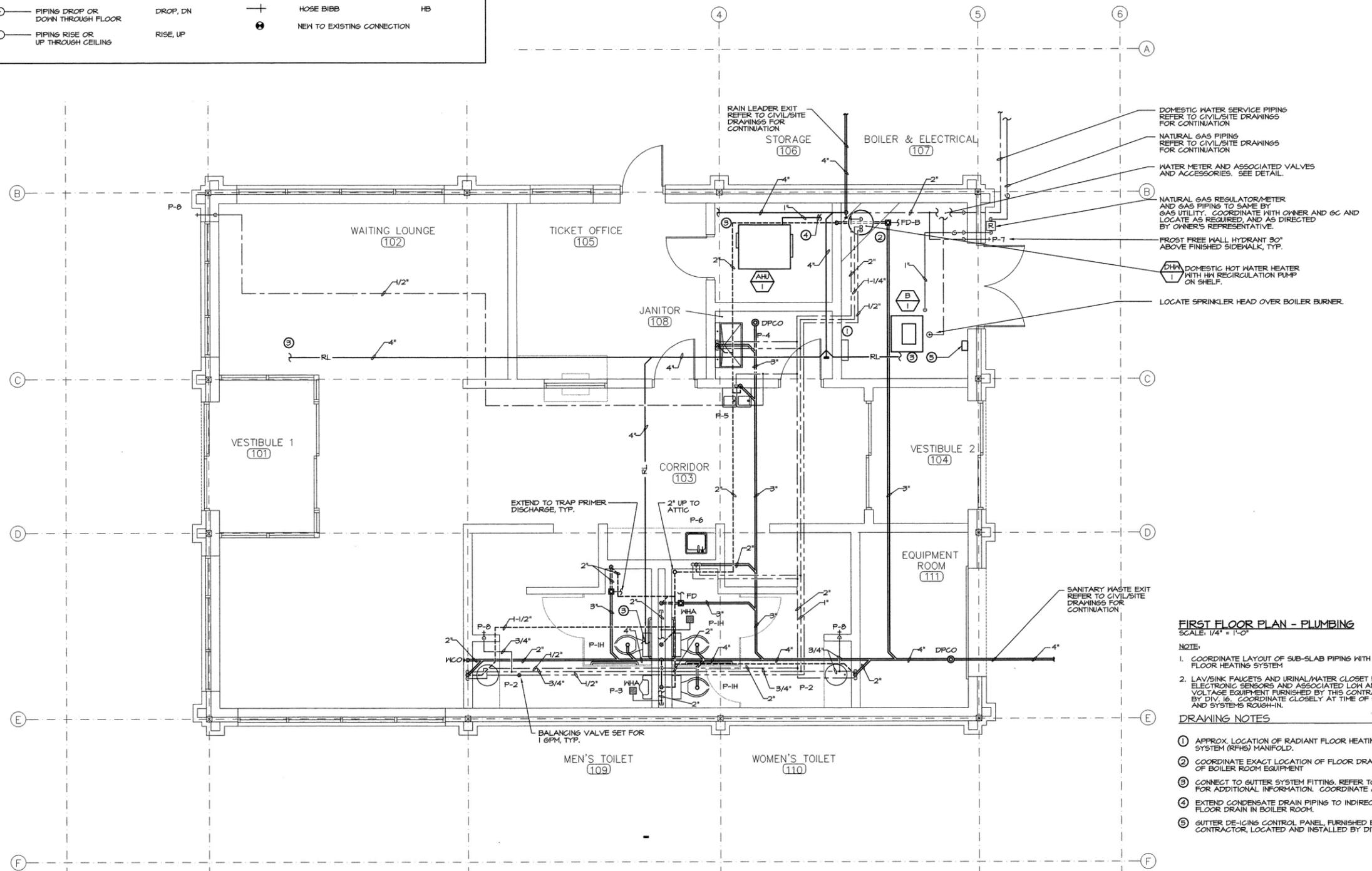
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PLUMBING SYMBOL LIST					
ALL SYMBOLS ARE NOT NECESSARILY USED					
SYMBOLS	DESCRIPTION	ABBREVIATION	SYMBOLS	DESCRIPTION	ABBREVIATION
—	SANITARY SOIL AND WASTE ABOVE GROUND	SN	—	CLEANOUT	CO
—	SANITARY SOIL AND WASTE BELOW GROUND/SLAB	SN	—	WALL CLEANOUT	WCO
- - -	SANITARY VENT	V	—	DECK PLATE CLEANOUT	DPCO
-----	VENT BELOW GROUND/SLAB	V	—	FLOOR OR ROOF DRAIN	FD, RD
—	COLD WATER	CW	—	WATER HAMMER ARRESTER	WHA
—	HOT WATER	HW	—	NATURAL GAS	G
—	HOT WATER RECIRC	HWR	—	LIQUID PETROLEUM GAS	LPG
—	SHUTOFF VALVE		—	PRESSURE & TEMPERATURE RELIEF VALVE	PTV
—	SHUTOFF VALVE		—	PRESSURE RELIEF VALVE	RV
—	CHECK VALVE	CV	—	STRAINER	
—	GLOBE VALVE	GLV	—	UNION	
—	FLOW (BALANCING VALVE)	FBV	—	PRESSURE GAUGE	
—	CONTROL VALVE	CLV	—	THERMOMETER	
—	PRESSURE REDUCING VALVE	PRV	—	WATER HYDRANT	WH
—	WATER METER	WM	—	HOSE BIBB	HB
—	PIPING DROP OR DOWN THROUGH FLOOR	DROP, DN	—	NEW TO EXISTING CONNECTION	
—	PIPING RISE OR UP THROUGH CEILING	RISE, UP			



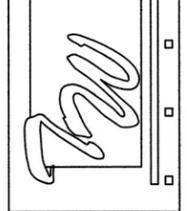
FIXTURE CONNECTION SCHEDULE							
SYM	FIXTURE	SUP	TRP	MINIMUM BRANCH SIZE			REMARKS
				WASTE	VENT	COLD	
P-1H	WATER CLOSET	1	-	4	2	1 1/4	FLOOR MOUNTED, ADA COMPLIANT, NOTE 1
P-2	LAVATORY	3/8	1-1/4	1-1/2	1-1/2	1/2	ADA COMPLIANT, DROP IN, NOTE 2
P-3	URINAL	3/4	2	2	1-1/2	1	ADA COMPLIANT, WALL HUNG, NOTE 1
P-4	MOP RECEPTOR	1/2	2	3	2	1/2	
P-5	WATER COOLER	3/8	1-1/4	1-1/2	1-1/2	1/2	WALL HUNG, SURFACE MOUNTED
P-6	SINK - PUBLIC	3/8	1-1/2	1-1/2	1-1/2	1/2	DROP IN
P-7	WALL HYDRANT	3/4	-	-	-	1	FROST FREE
P-8	HOSE BIBB	3/4	-	-	-	1	INTERIOR

NOTE 1: FLUSH VALVE SENSOR OPERATED USING BUILDING ELECTRIC SYSTEM AND TRANSFORMERS BY FC, WIRING BY DIVISION 16.
NOTE 2: SENSOR OPERATED USING BUILDING ELECTRIC SYSTEM AND TRANSFORMERS BY FC, WIRING BY DIVISION 16. PROVIDE WITH MECHANICAL MIXING VALVE.



- FIRST FLOOR PLAN - PLUMBING**
SCALE: 1/4" = 1'-0"
- NOTE:
- COORDINATE LAYOUT OF SUB-SLAB PIPING WITH RADIANT FLOOR HEATING SYSTEM
 - LAV/SINK FAUCETS AND URINAL/WATER CLOSET FLUSH VALVE ELECTRONIC SENSORS AND ASSOCIATED LOW AND LINE VOLTAGE EQUIPMENT FURNISHED BY THIS CONTRACTOR, INSTALLED BY DIV. 16. COORDINATE CLOSELY AT TIME OF SUBMITTAL AND SYSTEMS ROUGH-IN.
- DRAWING NOTES**
- APPROX. LOCATION OF RADIANT FLOOR HEATING SYSTEM (RFHS) MANIFOLD.
 - COORDINATE EXACT LOCATION OF FLOOR DRAIN WITH LAYOUT OF BOILER ROOM EQUIPMENT
 - CONNECT TO GUTTER SYSTEM FITTINGS. REFER TO A-SERIES DWGS FOR ADDITIONAL INFORMATION. COORDINATE AS REQD.
 - EXTEND CONDENSATE DRAIN PIPING TO INDIRECT AIR GAP OVER FLOOR DRAIN IN BOILER ROOM.
 - GUTTER DESIGN CONTROL PANEL, FURNISHED BY PLUMB. CONTRACTOR, LOCATED AND INSTALLED BY DIV. 16.

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Dover, New Hampshire

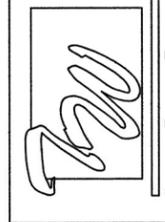
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PLUMBING PLAN

P1

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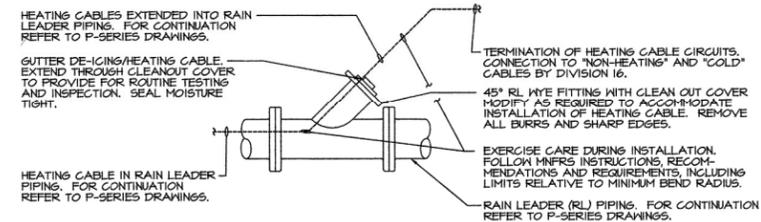
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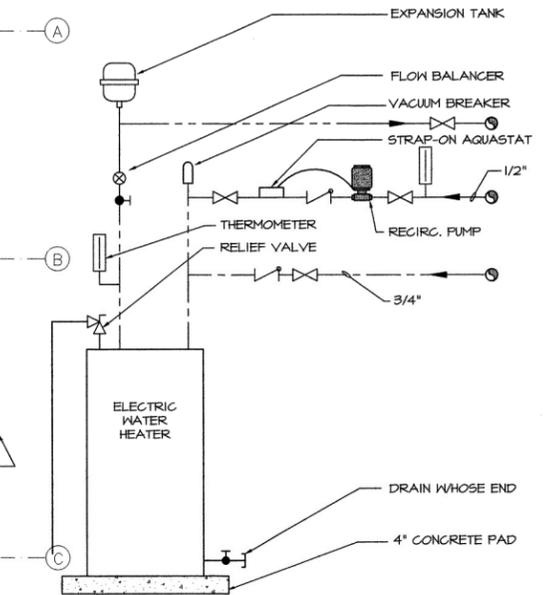
PLUMBING
ATTIC PLAN & DETAILS

**P
2**



DETAIL: GUTTER DE-ICING CABLE AT HORIZONTAL R.L. PIPING
NO SCALE

NOTE:
1. HEATING CABLE SHALL NOT BE INSTALLED IN NON-FERROUS PIPING.



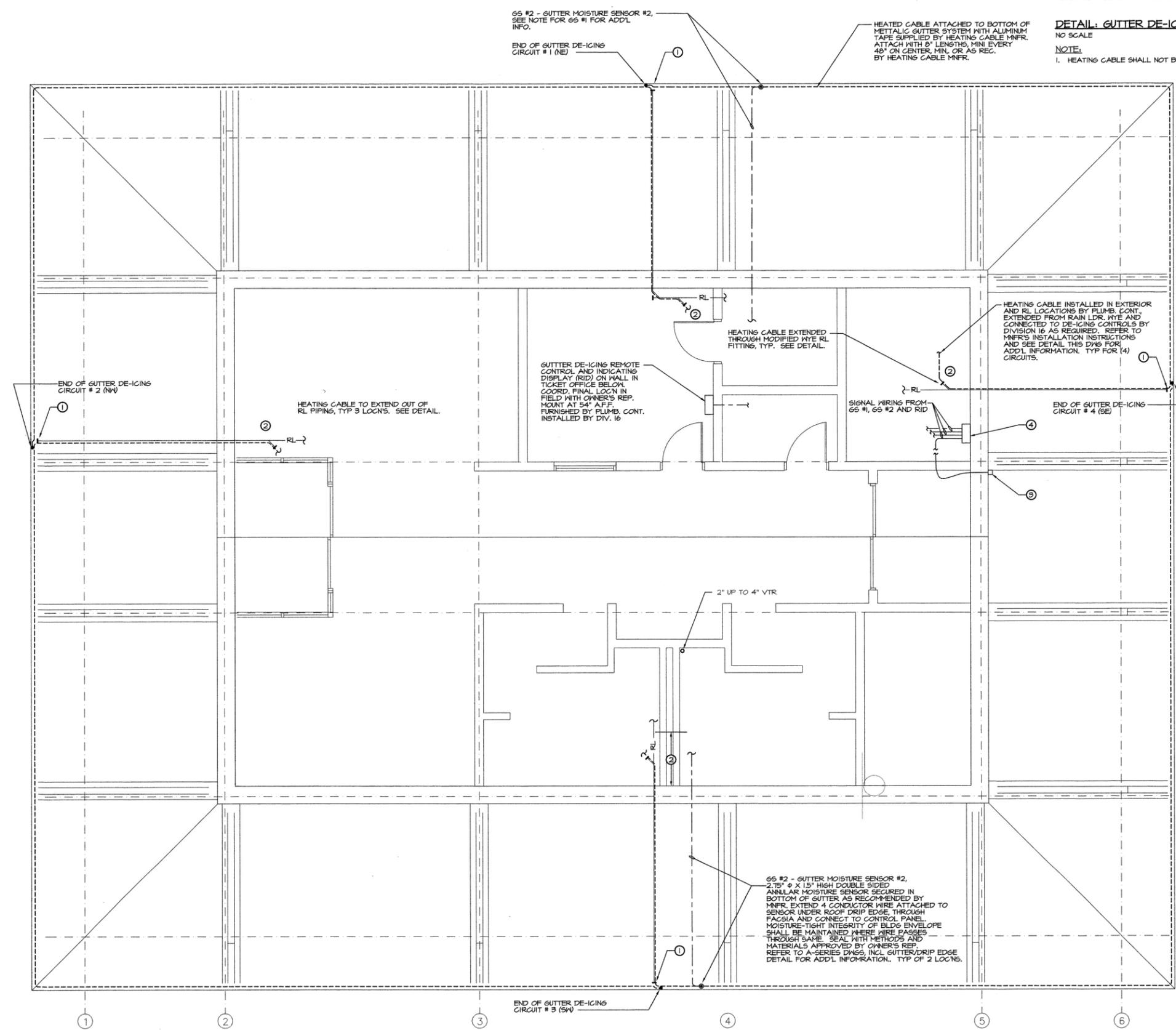
WATER HEATER PIPING DETAIL
NO SCALE

ATTIC PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

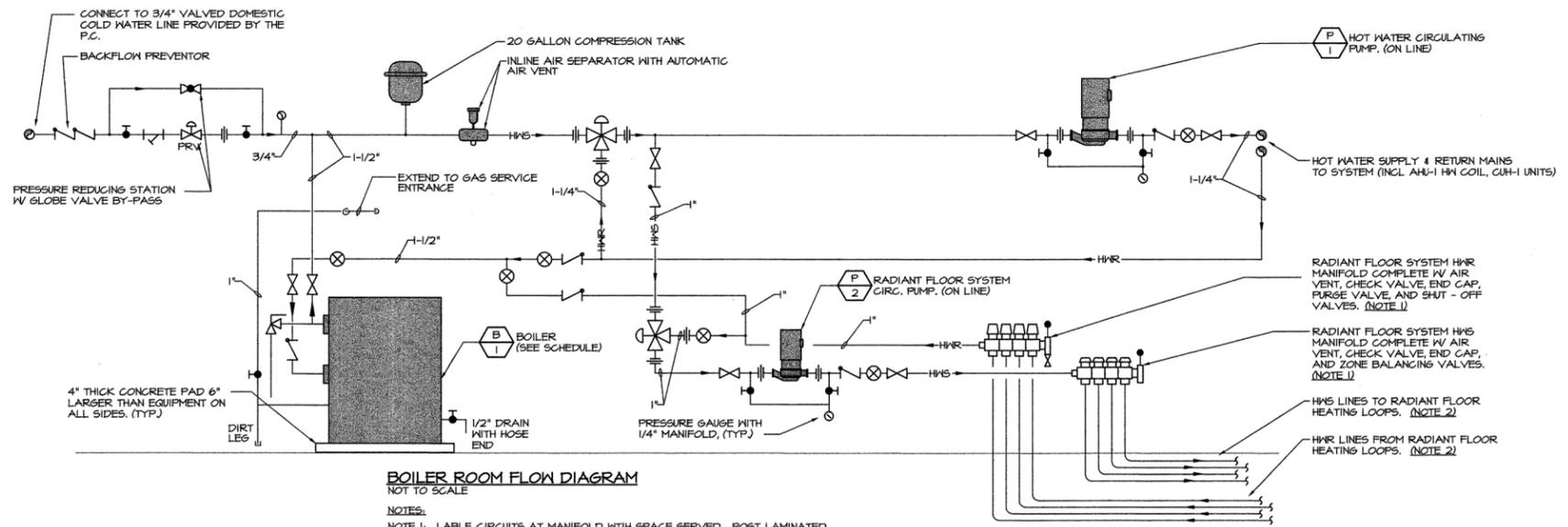
- NOTE:**
1. THIS CONTRACTOR SHALL INSTALL GUTTER DEICING/HEATING CABLE IN RAIN LEADER PIPING AND EXTERIOR LOCATIONS, INCLUDING GUTTERS.
 2. THIS CONTRACTOR SHALL FURNISH ALL GUTTER DE-ICING CABLES AND ACCESSORIES INCLUDING NECESSARY MOUNTING CLIPS, SENSORS, THERMOSTATS AND CONTROLS TO DIV. 16 FOR INSTALLATION, (EXCEPT HEATING CABLES, AS NOTED ABOVE).
 3. THIS CONTRACTOR AND DIV. 16 SHALL COORD. CLOSELY AT TIME OF SUBMITTAL AND INSTALLATION, BETWEEN ONE ANOTHER AND OTHER TRADES, INCL. GC AND GUTTER SUPPLIER.
 4. INTERIOR PARTITIONS AND REFLECTED CEILING PLAN ELEMENTS SHOWN FOR GENERAL REFERENCE ONLY. REFER TO A-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

DRAWING NOTES

- ① HEATING CABLE PASSES THROUGH LEAF SCREEN WHERE RAIN LEADER CONNECTS TO GUTTER SYSTEM. REFER TO A-SERIES DRAWINGS FOR ADDL. INFORMATION.
- ② EXTEND HEATING CABLE AS REQUIRED INTO BUILDING, MIN. 48".
- ③ APPROX. LOCN OF GUTTER DE-ICING SYSTEM OUTDOOR AIR SENSOR. LOCATE HIGH ON WALL WHERE WALL MEETS EAVE IN VENTILATED ENCLOSURE PAINTED TO MATCH ADJ. SURFACES. EXTEND WIRE TO DE-ICING CONTROL PANEL. FURNISHED BY PLUMB. CONTRACTOR, INSTALLED BY DIV. 16.
- ④ GUTTER DE-ICING PANEL LOCATED ON WALL IN BOILER/MECH RM BELOW. FURNISHED BY PLUMB. CONT. INSTALLED BY DIV. 16. LOCN IN BOILER/MECH ROOM COORD. WITH OTHER EQUIPMENT AND DEVICES.



END OF GUTTER DE-ICING CIRCUIT # 3 (SW)



BOILER ROOM FLOW DIAGRAM
NOT TO SCALE

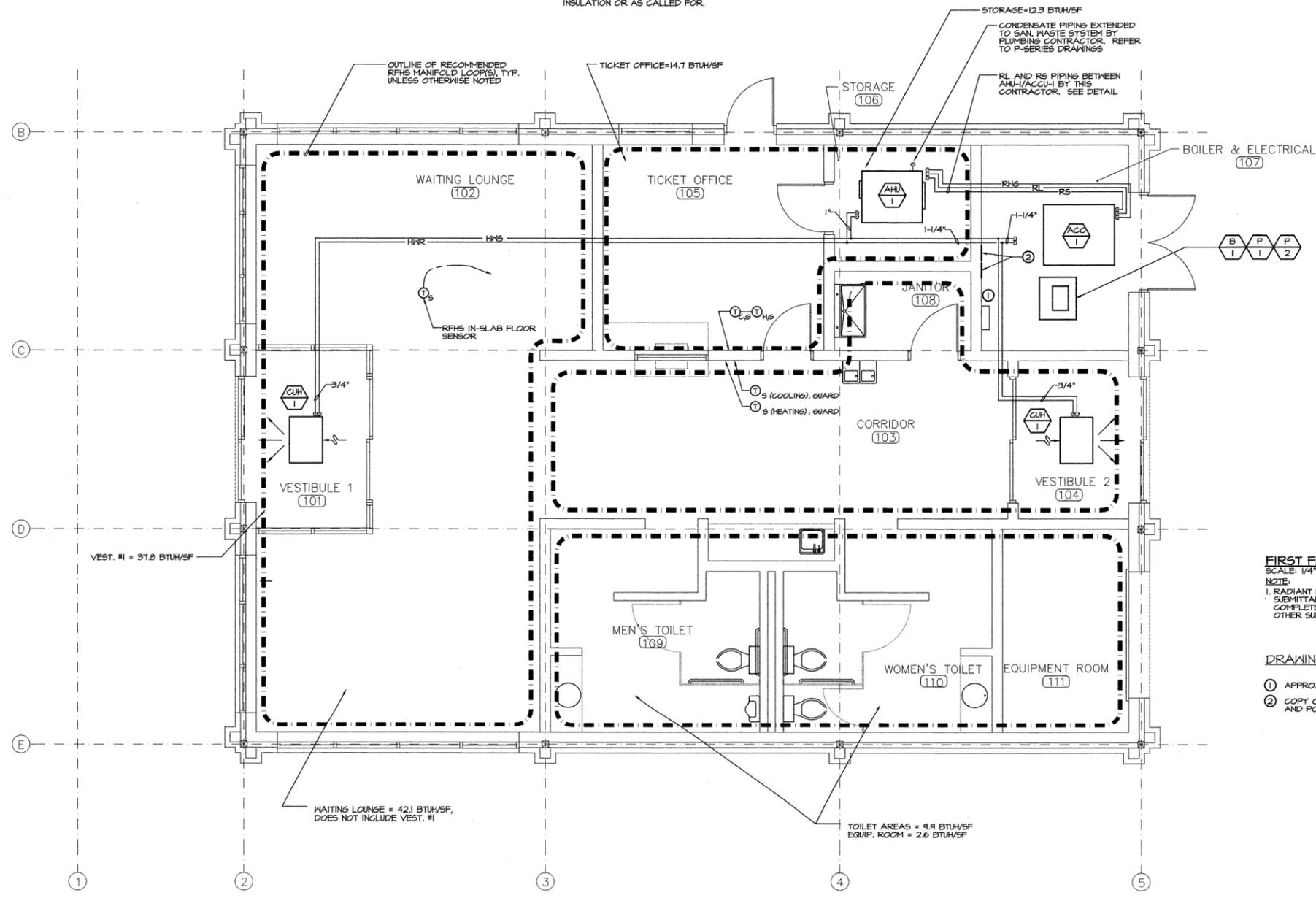
NOTES:

NOTE 1: LABEL CIRCUITS AT MANIFOLD WITH SPACE SERVED, POST LAMINATED, REDUCED SCALE FLOOR PLAN SHOWING RFHS TUBING LAYOUT NEAR MANIFOLD FOR REFERENCE.

NOTE 2: PROTECT TUBING FROM DAMAGE WHERE TUBING ENTERS SLAB WITH NEOPRENE INSULATION OR AS CALLED FOR.

HVAC SYMBOL LIST
ALL SYMBOLS ARE NOT NECESSARILY USED

HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
D	DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RHS	REFRIGERANT HOT GAS
A	COMPRESSED AIR
GAS	DOMESTIC COLD WATER (CW)
→	DIRECTION OF FLOW
▽	REDUCER
○	CAP OR PLUG
○	BOTTOM CONNECTION/TURN AWAY
○	TOP CONNECTION/TURN TOWARDS
○	UNION (OR FLANGE)
○	VALVE (SHUT OFF)
○	GLOBE VALVE
○	CHECK VALVE
○	CONTROL VALVE (2-WAY)
○	PRESSURE RELIEF VALVE
○	CONTROL VALVE (3-WAY)
○	TRIPLE DUTY VALVE
○	PRESSURE REDUCING VALVE
○	BALANCING COCK
○	FLOW BALANCER
○	STRAINER
○	THERMOMETER
○	PRESSURE GAUGE
○	AIR VENT
○	THERMOMETER/TEST/CONTROL WELL
○	PIPE PITCH UP/INCLINE RISE
○	PIPE PITCH DOWN/INCLINE DROP
○	TRANSITION-SQUARE TO ROUND
○	SUPPLY DUCT SECTION
○	RETURN OR EXHAUST DUCT SECTION
○	ROUND DUCT SECTION
○	FIRE DAMPER
○	BACKDRAFT DAMPER
○	SMOKE DAMPER
○	VOLUME DAMPER
○	MANUAL DAMPER
○	MOTOR OPERATED DAMPER
○	CUBIC FEET/MINUTE
○	FEET/MINUTE
○	NOT TO SCALE
○	DUCT SMOKE DETECTOR
○	THOUSAND BTU/HOUR
○	THERMOSTAT
○	ELECTRIC THERMOSTAT WITH MULTIPLE SET POINTS WITH A GUARD
○	TEMPERATURE SENSOR
○	UNDERCUT DOOR (1" BY THE G.C.)
○	LOUVERED DOOR, INDICATES SQ. FT. FREE AREA
○	AIR FLOW
○	ACOUSTIC THERMAL LINING
○	REGISTER, DIFFUSER, OR GRILLE DESIGNATION



FIRST FLOOR PLAN - MECHANICAL PIPING
SCALE: 1/4" = 1'-0"

NOTE:

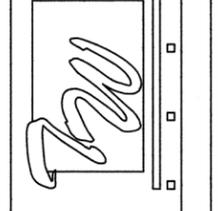
1. RADIANT FLOOR HEATING SYSTEM INSTALLER SHALL PROVIDE SUBMITTAL FOR PRODUCTS PROPOSED FOR INSTALLATION AND COMPLETE LAYOUT OF IN-SLAB PIPING, COORDINATED WITH OTHER SUB-SLAB PIPING SYSTEMS.

DRAWING NOTES

① APPROX. LOCATION OF RADIANT FLOOR HEATING SYSTEM (RFHS) MANIFOLD.

② COPY OF APPROVED ATC SUBMITTAL AND RFHS LAYOUT IN SHEETMETAL FRAME AND POSTED ON WALL RESPECTIVELY, NEXT TO VALVE CHART.

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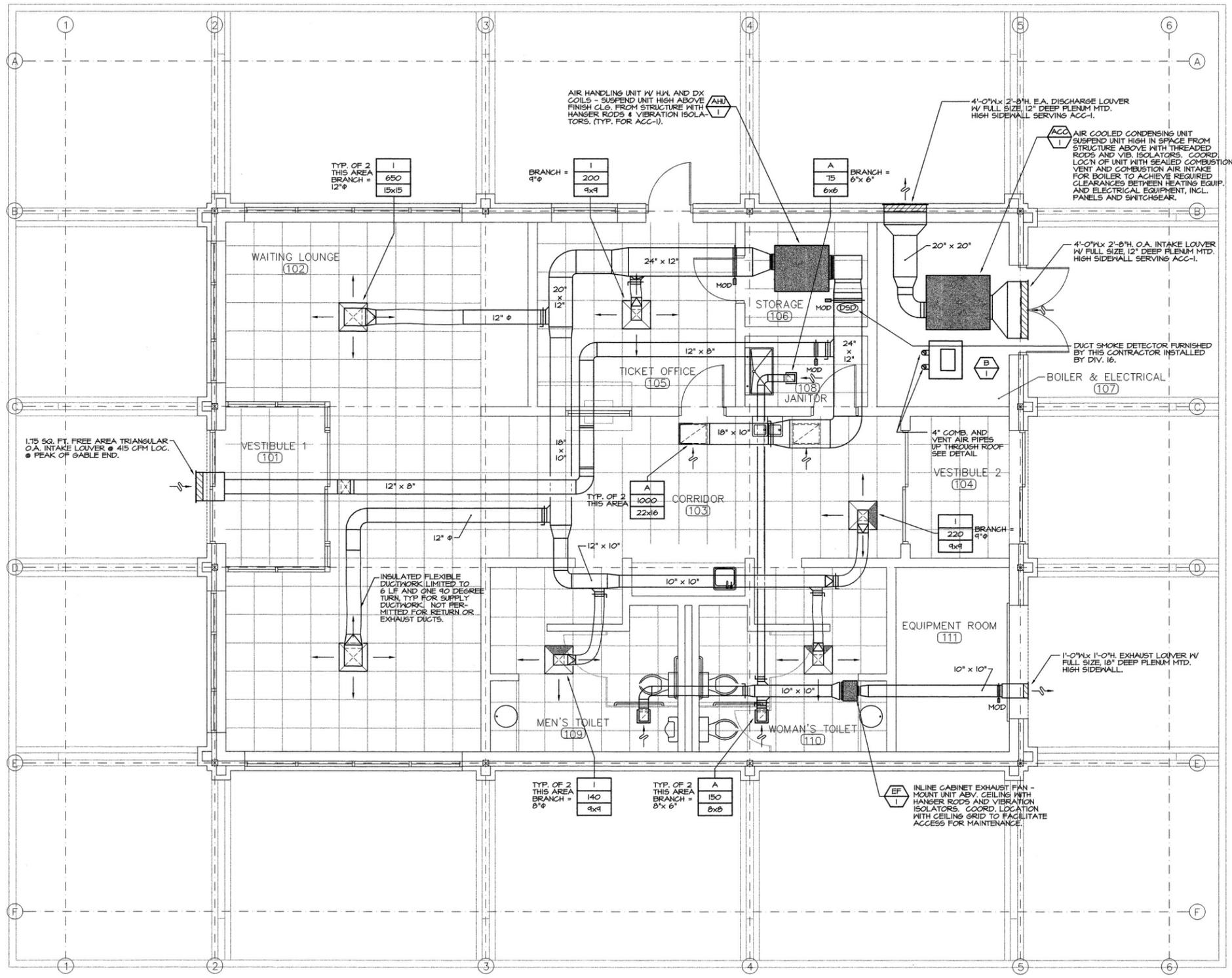
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MECHANICAL PIPING FIRST FLOOR PLAN

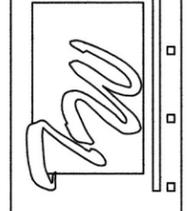
STATE OF NEW HAMPSHIRE
MARK D. VINCIGELLO
No. 8061
LICENSED PROFESSIONAL ENGINEER

M I



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

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MECHANICAL DUCTWORK FIRST FLOOR

M
2

AIR HANDLING UNIT SCHEDULE - DX/HOT WATER																														
UNIT NO.	LOCATION	SERVICE	CFM STD AIR	MIN O.A. CFM	S.P. IN W.G.		O.V. FPM	FAN RPM	FAN NO. AND MIN. DIA.	MOTOR					COOLING COIL 45°F BHT					HEATING COIL 180°F BHT					DESIGN EQUIPMENT					
					EXT	TOTAL				RPM	HP	VOLTS	PHASE	STARTER	DB F	WB F	DB F	WB F	TOTAL TONS	FACE VEL FPM	ROWS & CIRCUITS	EAT °F	LAT °F	MEB		FACE VEL FPM	ROWS	GPM	TEMP DROP °F	F.D. FT. HD.
AHU-1	AS SHOWN	HVAC	2000	415	0.50	1.675	--	--	CENT/FC	1750	1-1/2	208	3	C. MAG	74.8	65.3	56.3	56.0	5.0	400	4, 1	50	90	86.4	400	--	5.8	30	0.7	ATS-OH5-060-AHU

FAN SCHEDULE																							
UNIT NO.	LOCATION	SERVICE	TYPE	CFM	S.P.	FAN DIA.	BLADE TYPE	FAN RPM	TIP SPEED (FPM)	OUTLET VEL. (FPM)	DRIVE	ROTATION DISCHARGE	MOTOR					DESIGN EQUIPMENT					
													RPM	HP	VOLTS	PHASE	STARTER		PILOT LIGHT				
EFI	AS SHOWN	TLT. EXHAUST	INLINE	375	0.375"	--	CENT.	1200	--	--	DIRECT	--	1200	146 W	120	1ø	C. MAG.	NO	COOKE '6N-520'				

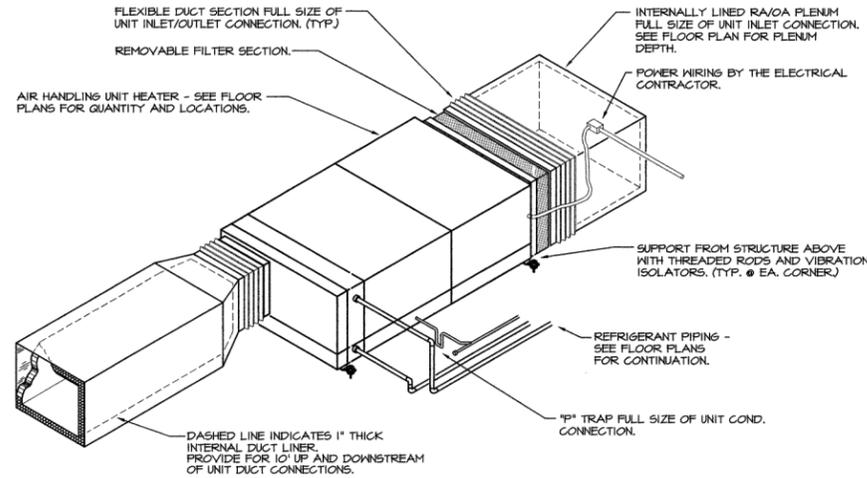
AIR COOLED CONDENSER SCHEDULE 45° F AMBIENT AIR													
UNIT NO.	LOCATION	CAPACITY TONS	CONDENSER				COMPRESSOR				DESIGN EQUIPMENT		
			NO. OF FANS	RPM	HP	VOLTS	PHASE	NO. OF STAGES	KW	VOLTS		PHASE	
ACCI	AS SHOWN	5 TONS	1	1120	2	208	3ø	1	5.0	208	3ø	ATS 'OH5-060-RCU-1' **	

** PROVIDE COMPLETE WITH REFRIGERANT ACCESSORIES, COMPLETE THERMOSTAT CONTROL SYSTEM, DEFROST CYCLE TIMER, AND HOT GAS BYPASS.

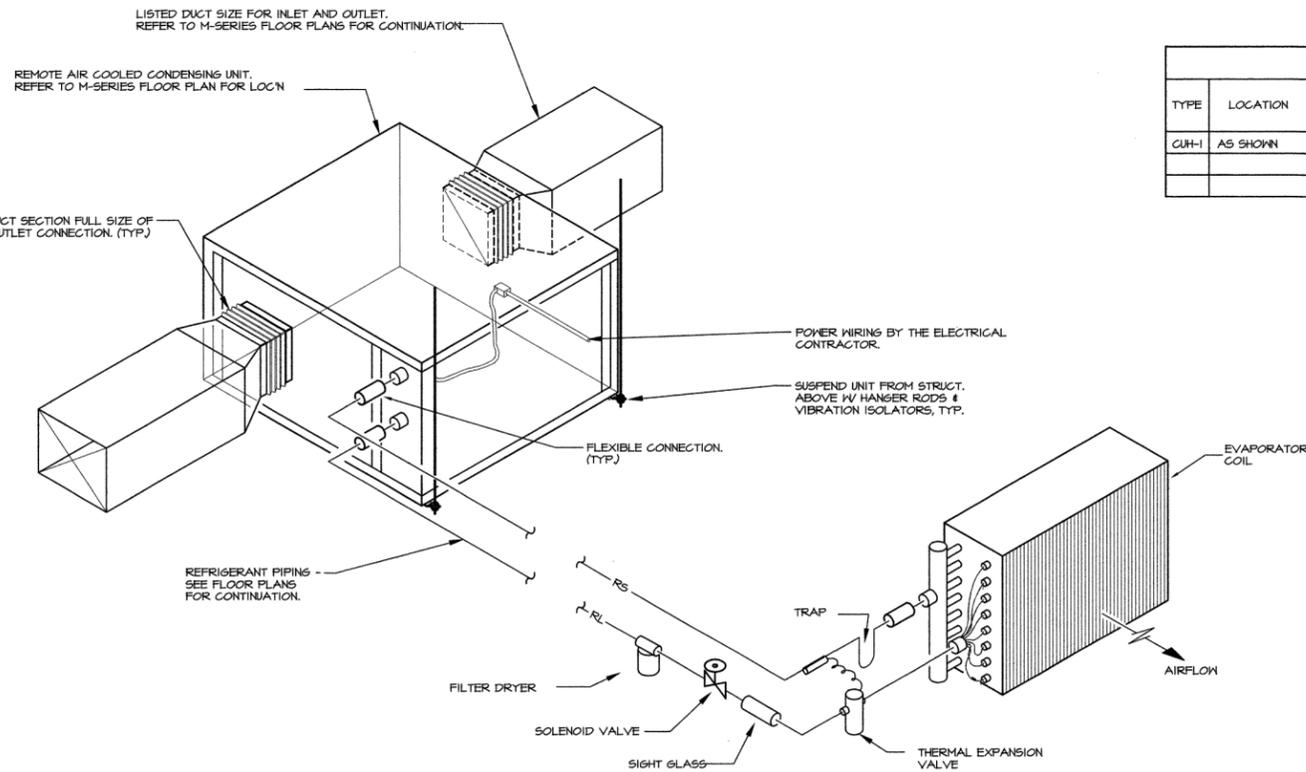
PUMP SCHEDULE											
PUMP NO.	LOCATION	SERVICE	GPM	HEAD FT. WATER	MAX. W/P	MOTOR			STARTER	PUMP TYPE	DESIGN EQUIPMENT
						HP.	VOLTS	PHASE			
P-1	AS SHOWN	PRIMARY	10	28	175	1/2	120	1	C.MAG.	INLINE	TACO 1612
P-2	AS SHOWN	RAD. FLOOR HEAT	5	17	125	1/8	120	1	C.MAG.	INLINE	TACO 0014

BOILER SCHEDULE - NATURAL GAS											
UNIT NO.	LOCATION	SERVICE	TYPE	OPER. PRES. PSIG	SYSTEM MEDIA	MINIMUM OUTPUT MBH	GAS FIRING RATE MBH	MIN. GAS PRES. BEFORE REGULATOR	SQ. FT. HEATING AREA	FLUE CONN. SIZE AND NUMBER	DESIGN EQUIPMENT
B-1	AS SHOWN	SPACE HEAT	SEAL'D COMB.	30	WATER	128	156	11"	--	1 ø 3"	BUDERUS GA 244/31

UNIT HEATER SCHEDULE - HOT WATER 180 FEM.T.															
TYPE	LOCATION	SERVICE	TYPE	CFM	CAPACITY MBH	GPM	TEMP. DROP °F	PRE. DROP FT. HD.	E.A.T. °F	L.A.T. °F	FAN MOTOR				DESIGN EQUIPMENT
											RPM	HP	VOLTS	PHASE	
CUH-1	AS SHOWN	SPACE HEAT	REC. CLG	335	22.8	2.32	20	0.40	60	125	1050	1/15	120	1	STERLING RC 1200-03

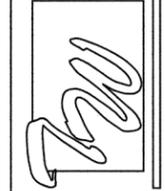


AIR HANDLING UNIT DETAIL
NOT TO SCALE



REMOTE ACCU AND COOLING COIL PIPING DETAIL
NO SCALE

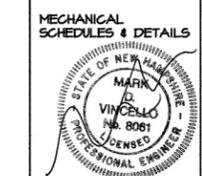
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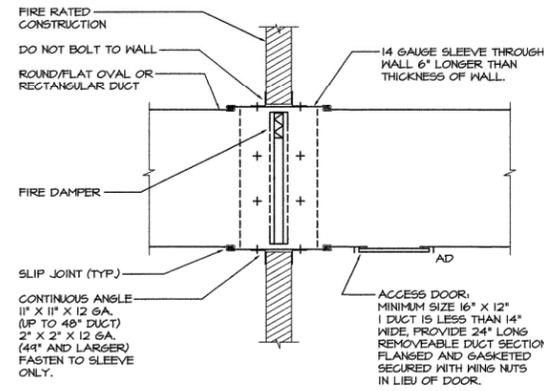


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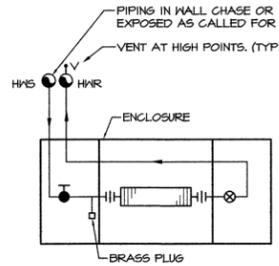
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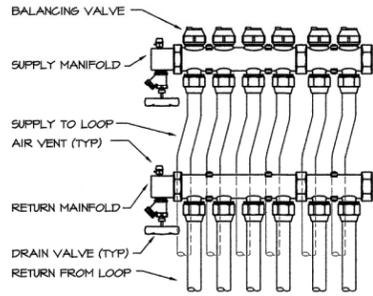
FIRE DAMPER INSTALLATION DETAIL
NO SCALE DUCT VELOCITIES UP TO 2000 FPM

- NOTES:
1. HORIZONTAL DAMPER INSTALLATION SIMILAR.
2. FOR DOUBLE WALL DUCT, USE INSULATION END GAP AND INSULATE SLEEVE.

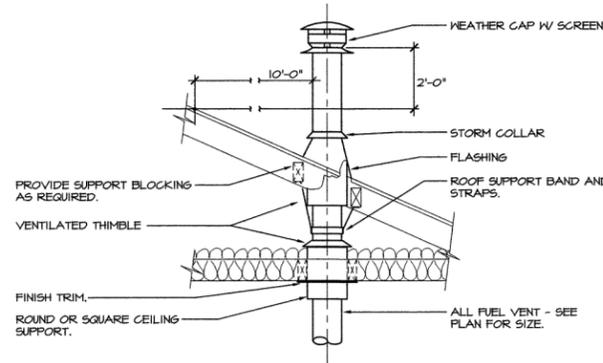


CABINET UNIT HEATER PIPING DETAILS
NO SCALE HOT WATER

- NOTES:
1. PIPING FOR CEILING MOUNTED UNITS IS SIMILAR

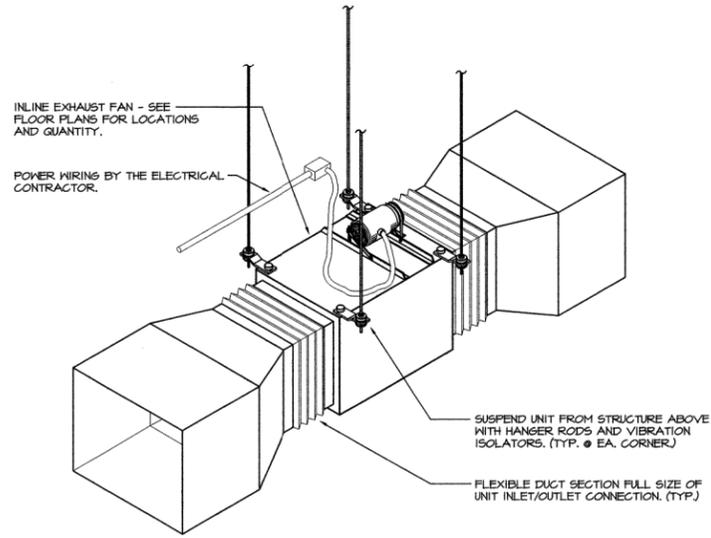


RADIANT FLOOR LOOP MANIFOLD DETAIL
NO SCALE

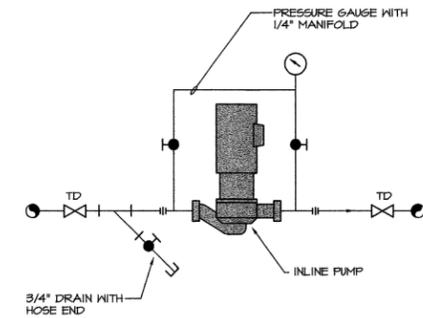


GAS VENT TERMINATION DETAIL
NOT TO SCALE

- NOTES:
1. MINIMUM HEIGHT ABOVE ANY ROOF TO WEATHER CAP IS 2'-0\"/>

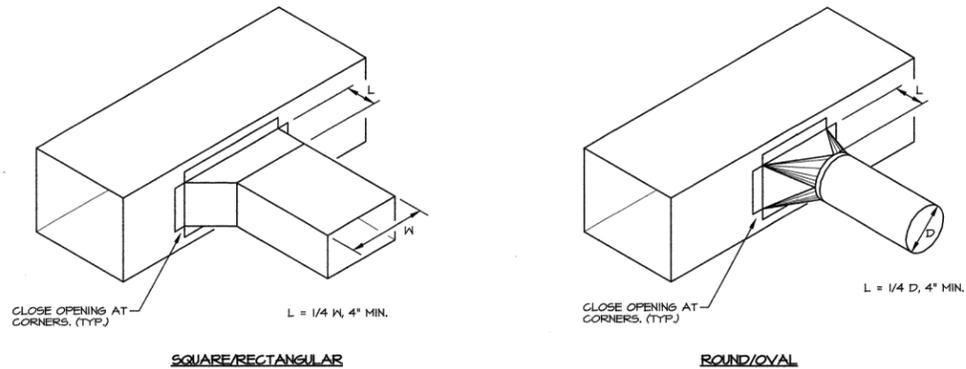


INLINE EXHAUST FAN DETAIL
NO SCALE

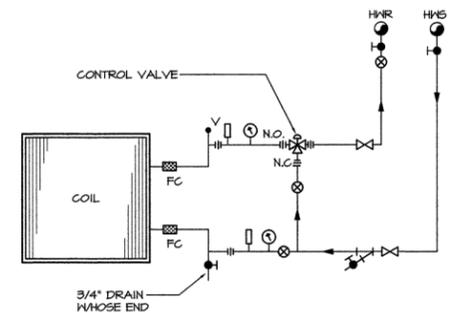


INLINE PUMP DETAIL
NO SCALE

- NOTES:
1. FOR PIPING LESS THAN 2\"/>



TYPICAL BRANCH CONNECTION DETAIL
NO SCALE



HEATING COIL PIPING DETAIL
NO SCALE 3-WAY

- NOTES:
1. ARRANGE PIPING TO ALLOW REMOVAL OF COIL, FILTERS, AND ACCESS PANELS WITHOUT REMOVAL OF PIPING AHEAD OF UNIONS.
2. WHERE THERE IS MORE THAN ONE COIL SECTION, PROVIDE ISOLATION VALVES AND FLOW BALANCER FOR EACH SECTION.
3. PIPE SUPPLY TO DISCHARGE AIR SIDE.

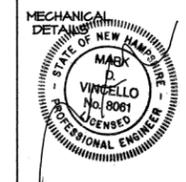
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ELECTRICAL SYMBOL LIST

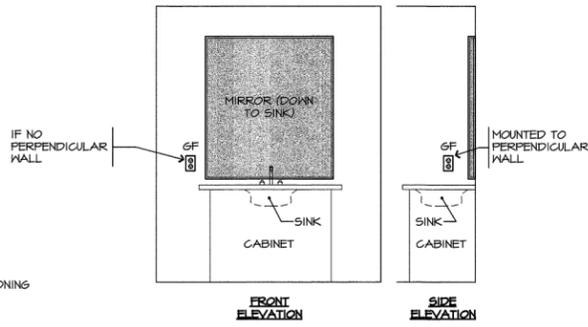
NOT ALL SYMBOLS ARE NECESSARILY USED

	FLUORESCENT STRIP FIXTURE
	RECESSED, FLUORESCENT FIXTURE
	WALL BRACKET
	CEILING FIXTURE, SURFACE OR RECESS MOUNTING, REFER TO SPECIFICATIONS. RECESS: PROVIDE DIRECT CONTACT, WITH INSULATION WHERE APPLICABLE. COORDINATE WITH ARCH. PLANS/ELEVATIONS
	EMERGENCY BATTERY UNIT, NO ATTACHED HEADS
	EMERGENCY BATTERY UNIT, ATTACHED HEADS
	REMOTE EMERGENCY LIGHTING FIXTURE, DOUBLE HEAD, POWERED FROM REMOTE BATTERY UNIT
	EXIT SIGN, SELF POWERED
	EXIT SIGN, SELF POWERED, WALL MOUNTED
	SINGLE POLE SWITCH 20 AMP 125/271 VOLT TOGGLE
	3-WAY SWITCH 20 AMP 125/271 VOLT TOGGLE
	4-WAY SWITCH 20 AMP 125/271 VOLT TOGGLE
	PILOT LIGHT SWITCH 20 AMP 125 VOLT TOGGLE, FLUSH MOUNT SEE NOTES AT DEVICE FOR SPECIFIC MOUNTING INSTRUCTIONS
	OIL BURNER SHUT OFF SWITCH
	DIMMER SWITCH, 120 VOLT, SLIDE TYPE, 1000 WATT MIN
	WALL BOX TIMER SWITCH
	WALL BOX OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR SWITCH.
	OIL BURNER FIRE-O-MATIC THERMAL CUTOUT SWITCH
	DUPLEX RECEPTACLE 20 AMP 125 VOLT
	CEILING MOUNTED RECEPTACLE, WHITE COLOR, FOR "SHOW WINDOW" USE, 120 VOLT, 20 AMP, WHITE PLATE
	DUPLEX RECEPTACLE ABOVE COUNTER AND BACKSPASH, VERIFY FINAL MOUNTING HEIGHT ON SITE PRIOR TO ROUGH IN
	ISOLATED GROUND DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, SPLIT WIRED, TOP HALF SWITCH CONTROLLED
	DOUBLE DUPLEX RECEPTACLE, INSTALL IN 2-GANG BOX UNDER ONE 2-GANG PLATE, WIRE TO COMMON CIRCUIT AS SHOWN
	DUPLEX RECEPTACLE WITH METAL WEATHERPROOF IN-USE, GASKETED COVER
	GROUND FAULT TYPE DUPLEX RECEPTACLE, 20 AMP 125 VOLT CLASS A WITH 20 AMP FEED THROUGH RATING, PLATE TO MATCH OTHER DEVICES. INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS (MIN. 3-1/2" WALL BOX)
	GROUND FAULT TYPE DUPLEX RECEPTACLE, WITH WEATHERPROOF COVER. INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS (MIN. 3-1/2" WALL BOX)
	FLOOR MOUNTED RECEPTACLE
	SPECIAL 10 or 30 OUTLET, 208 VOLT, CONFIRM AMPERAGE AND N.E.M.A. CONFIGURATION TO SUITE EQUIPMENT BEING SERVED
	RANGE OUTLET, 50 AMP, 4 WIRE, FLUSH RECEPTACLE IN DEEP BOX WITH RAISED COVER
	TELEPHONE SYSTEM NETWORK INTERFACE (DEMARCAION) POINT FURNISHED AND INSTALLED BY LOCAL TELEPHONE SERVICE CO, QUANTITY AS REQUESTED BY OWNER TO SERVE NEEDS
	TELEPHONE OUTLET, BOX AND DROP SEE DROP DETAIL AND PHONE RISER
	TELEPHONE OUTLET, WALL OR PAY TYPE AS NOTED
	CATV OUTLET BOX AND DROP, SEE DETAILS AND CATV RISER DIAGRAM
	COMPUTER OUTLET BOX AND DROP, SEE DETAILS
	WIRING HOME RUN TO PANEL AS NOTED, (2) #12, (1) #12 GND MIN, BACK TO 20 AMP, SINGLE POLE BREAKER UNLESS NOTED OTHERWISE
	INDICATES (2) POWER CONDUCTORS WITH FULL SIZE GROUND
	INDICATES (3) POWER CONDUCTORS WITH FULL SIZE GROUND
	INDICATES (4) POWER CONDUCTORS WITH FULL SIZE GROUND
	CABLE OR RACEWAY RUN CONCEALED IN WALLS OR CEILINGS SURFACE MOUNTED WHERE NOTED OR ALLOWED IN UTILITY OR UNFINISHED AREAS
	UNDERSLAB RACEWAY AS NOTED
	EMERGENCY LIGHTING LOW VOLTAGE (12 VDC) WIRING, RUN CONCEALED IN WALLS OR ABOVE CEILINGS. SURFACE MOUNTED ONLY IN UTILITY AREAS OR WHERE SPECIFICALLY ALLOWED
	ELECTRICAL PANELBOARD, VOLTAGE AND PHASE AS NOTED REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS
	TELEPHONE AND CATV BACKBOARD BY E.C., SEE SYSTEMS RISER DIAGRAMS FOR ADDITIONAL DETAILS AND SPECIFICATIONS
	DISCONNECT SWITCH BY E.C., 250 VOLT, NEMA 1 (OR 3R AS NOTED), FUSIBLE, SIZE AS NOTED OR REQUIRED, DUAL ELEMENT, TIME DELAY FUSES SIZED, FURNISHED AND INSTALLED BY EC PER EQUIPMENT NAMEPLATE VALUES
	TIMECLOCK
	PHOTOCELL
	FIRE SEAL AT RATED PARTITION
	ALARM BELL
	TRANSFORMER, 120/24 VAC
	MANUAL MOTOR STARTER
	MAGNETIC OR COMBINATION MOTOR STARTER
	EXHAUST FAN, FURNISHED WITH DUCTWORK AND INSTALLED BY M.C. POWER WIRING BY E.C. AS SHOWN OR AS NOTED, FANS ARE 120 VOLT, FRACTIONAL HORSEPOWER, UNLESS SPECIFICALLY NOTED OTHERWISE
	EQUIPMENT MOTOR, FURNISHED AND INSTALLED COMPLETE BY OTHERS AS NOTED, POWER WIRING AND DISCONNECT BY E.C. AS REQUIRED

ELECTRICAL ABBREVIATIONS

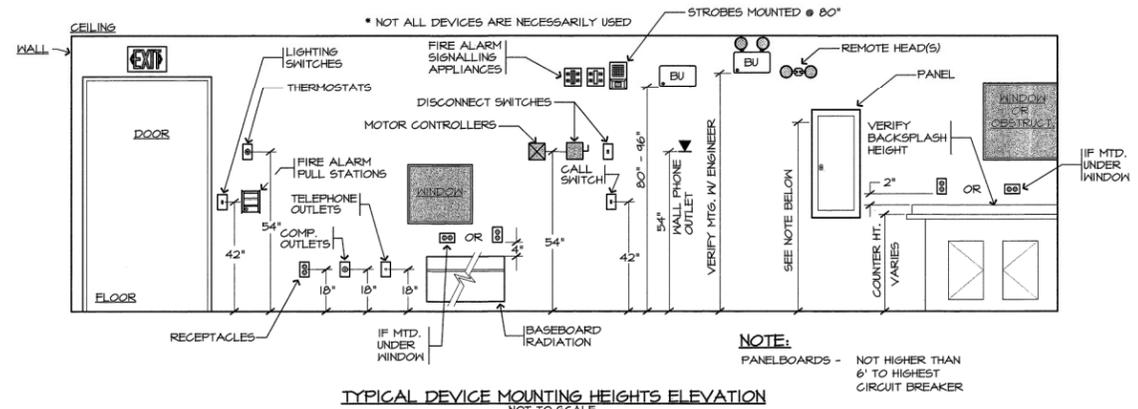
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
BC	BARE COPPER
BKBD	BACKBOARD
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CSA	CANADIAN STANDARDS
CJ	COPPER
DET	DETAIL
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EXIST	EXISTING
FU	FUSIBLE
GC	GENERAL CONTRACTOR
GF	GROUND FAULT (PROTECTED) = GFCI
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCH	MAGNETIC HOLDERS
MIN	MINIMUM
MLO	MAIN LUG ONLY
MTD	MOUNTED
NIC	NOT IN CONTRACT
NF	NON FUSED
PSNH	PUBLIC SERVICE OF NH
PVC	RIGID NON-METALLIC CONDUIT (POLYVINYL CHLORIDE)
RMC	RIGID GALVANIZED METAL CONDUIT SHEET
TELE	TELEPHONE
TY	TYPICAL
UL	UNDERWRITERS LABORATORY
UN	UNLESS OTHERWISE NOTED
VSA	VERIZON / BELL ATANTIC WITH GROUND CONDUCTOR
WP	WEATHERPROOF

WHERE (2) DUPLEX RECEPTACLES ARE SHOWN NEAR EACH OTHER
 QUAD NOT ALLOWED



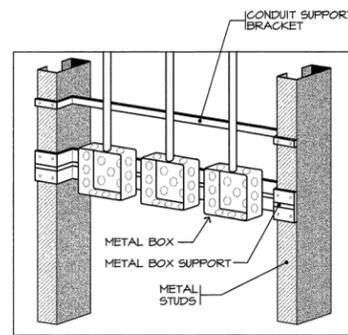
RECEPTACLE MOUNTING AT SINK DETAIL
NOT TO SCALE

NOTE:
 INTENT OF GROUND FAULT (GF) RECEPTACLES LOCATED NEAR TOILET LAVS IS TO HAVE RECEPTACLES AVAILABLE FOR USE @ THE LAV. ELECTRICAL CONTRACTOR SHALL CONFIRM FINAL LAV LOCATION, MIRROR SIZE AND OTHER EQUIPMENT PRIOR TO ROUGH-IN. CONFIRM FINAL ARRANGEMENT OF TOILET FIXTURES TO ENSURE THAT RECEPTACLE IS ADJACENT TO THE LAV, NOT ADJACENT TO OTHER PLUMBING FIXTURES



TYPICAL DEVICE MOUNTING HEIGHTS ELEVATION
NOT TO SCALE

- NOTES:**
- THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR
 - WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE E.C. SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT
 - ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN FLUSH DEVICE BOXES NO SURFACE BOXES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT
 - E.C. SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS INCLUDING BACKSPASH, ON SITE WITH G.C. PRIOR TO INSTALLATION OF BOXES, ABOVE COUNTER DEVICES NOTED BY ()
 - INSTALL RECEPTACLES HORIZONTALLY, 4" ABOVE BASEBOARD RADIATION. REFER TO M - SERIES (DIV. 15) SHEETS FOR RADIATION LAYOUT
 - WHERE SHOWN BACK TO BACK, OFFSET BOXES IN STUBBAYS.

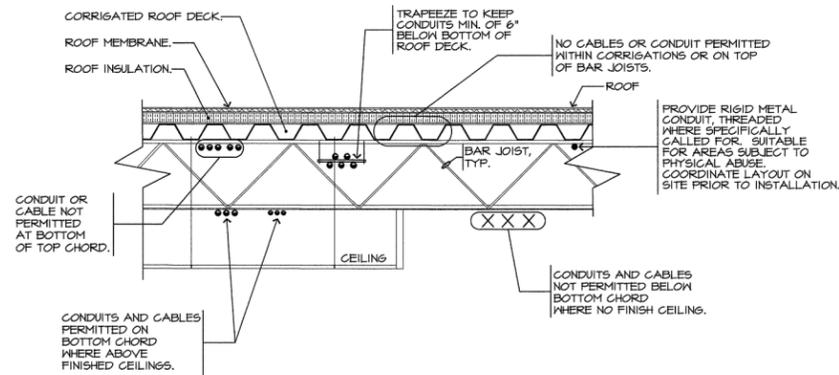


ELECTRICAL DEVICE BOX MOUNTING DETAIL
NOT TO SCALE

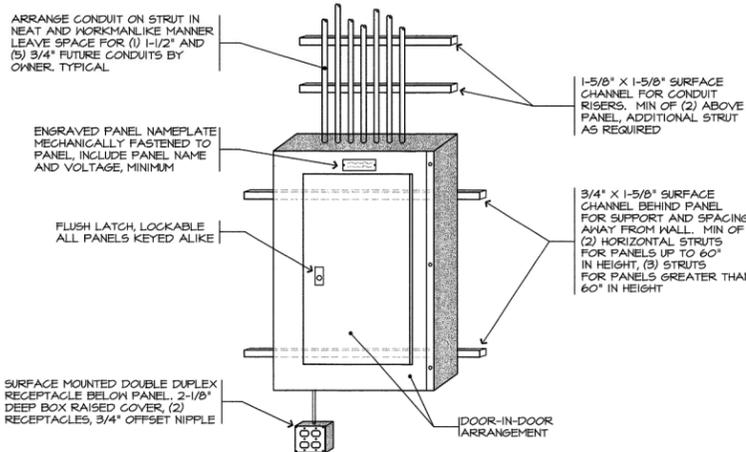
- BOX MOUNTING DETAIL NOTES:**
- PROVIDE FOR ALL MULTIPLE BOX INSTALLATIONS
 - PROVIDE WHERE REQUIRED TO LOCATE BOXES IN SPECIFIED LOCATIONS OR CENTERED UNDER WINDOWS OR OTHER ARCHITECTURAL ELEMENTS
 - REFER TO NOTES AND / OR ELEVATIONS ON ELECTRICAL AND ARCHITECTURAL SHEETS
 - PROVIDE MANUFACTURED PRODUCT FOR ELECTRICAL BOX SUPPORT @ LOCATIONS REQUIRED
 - SUPPORT PRODUCT MAY BE "FRONT OF BOX" STYLE

FIRE ALARM SYMBOL LIST

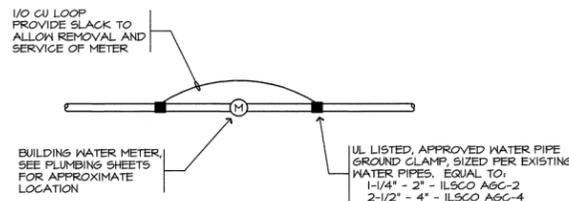
SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM CONTROL PANEL	FLUSH, 5' TO TOP
	FIRE ALARM REMOTE ANNUNCIATOR	FLUSH, 5' TO TOP
	SYSTEM SMOKE DETECTOR	CEILING
	DUCT SMOKE REMOTE TEST	WALL, 42" AFF
	DUCT SMOKE DETECTOR	IN DUCT
	RATE OF RISE HEAT DETECTOR	CEILING
	FIXED HEAT DETECTOR	CEILING
	FIXED HEAT DETECTOR	CEILING
	RATE OF RISE HEAT DETECTOR	CEILING
	MANUAL FULL STATION	WALL, 42" AFF, SEMI FLUSH
	HORN STROBE DEVICE CANDELLA RATING AS SHOWN	WALL, 80" AFF, SEMI FLUSH
	STROBE ONLY DEVICE CANDELLA RATING AS SHOWN	WALL, FLUSH, 80" AFF
	MINI HORN STROBE DEVICE CANDELLA RATING AS SHOWN	WALL, FLUSH, 80" AFF
	SPRINKLER FLOW SWITCH	BY SPRINKLER CONTRACTOR
	SPRINKLER TAMPER SWITCH	BY SPRINKLER CONTRACTOR
	SPRINKLER PRESSURE SWITCH	BY SPRINKLER CONTRACTOR



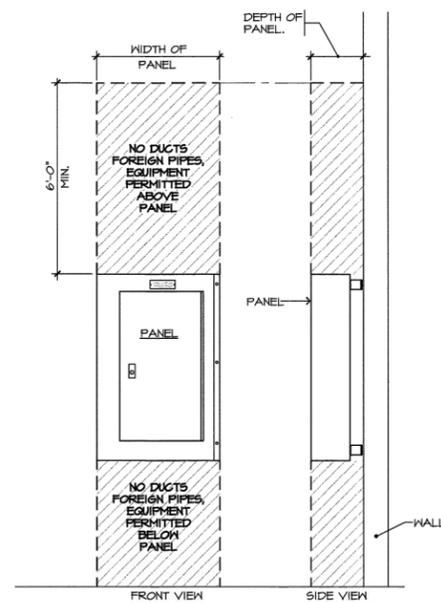
CONDUITS/CABLES AT ROOF DECK DETAIL
NOT TO SCALE



SURFACE MOUNTED PANELBOARD DETAIL
NOT TO SCALE



WATER METER BONDING JUMPER
NOT TO SCALE



DEDICATED EQUIPMENT SPACE DETAIL
NOT TO SCALE

- NOTES:**
- TYPICAL FOR SWITCHBOARDS, PANELBOARDS AND MOTOR CONTROL CENTERS.
 - SEE N.E.C. art. 110.26.C.F.

LISTED EQUIPMENT NOTICE

ALL EQUIPMENT NEEDING ELECTRICAL POWER IS INTENDED AND SPECIFIED TO BE "UL" OR "CSA" LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER OF ANY EQUIPMENT NOT SO LISTED AND LABELED AND SHALL NOT PROCEED WITH ANY WIRING OF SUCH EQUIPMENT UNTIL REPLACEMENT OF EQUIPMENT OR DIRECTED IN WRITING BY ENGINEER. TYPICAL OF ALL DEVICES AND EQUIPMENT ON THIS PROJECT

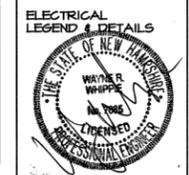
TENNANT/WALLACE ARCHITECTS AIA PA
 MANCHESTER, NH 03101
 FAX (603) 664 5604



DOVER BUS FACILITY
 Dover, New Hampshire

project no. 05171
 drawn by CTS
 checked by WRW
 doc. date 05-25-06

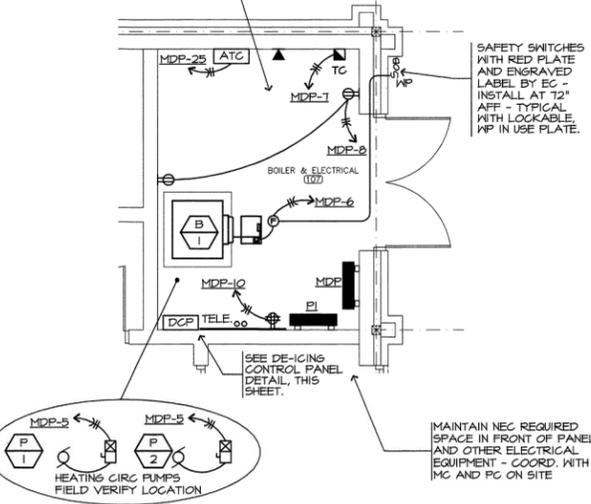
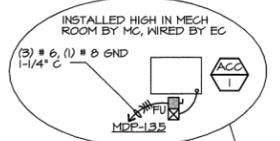
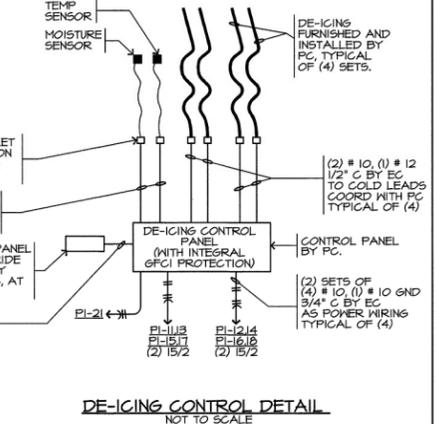
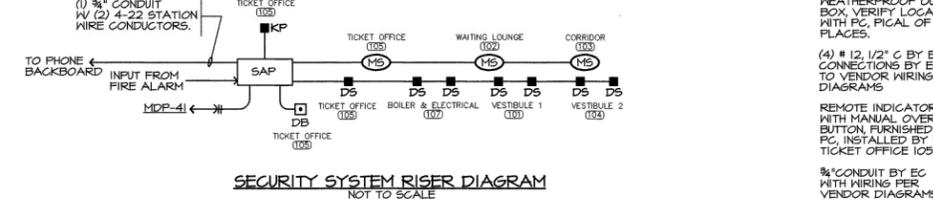
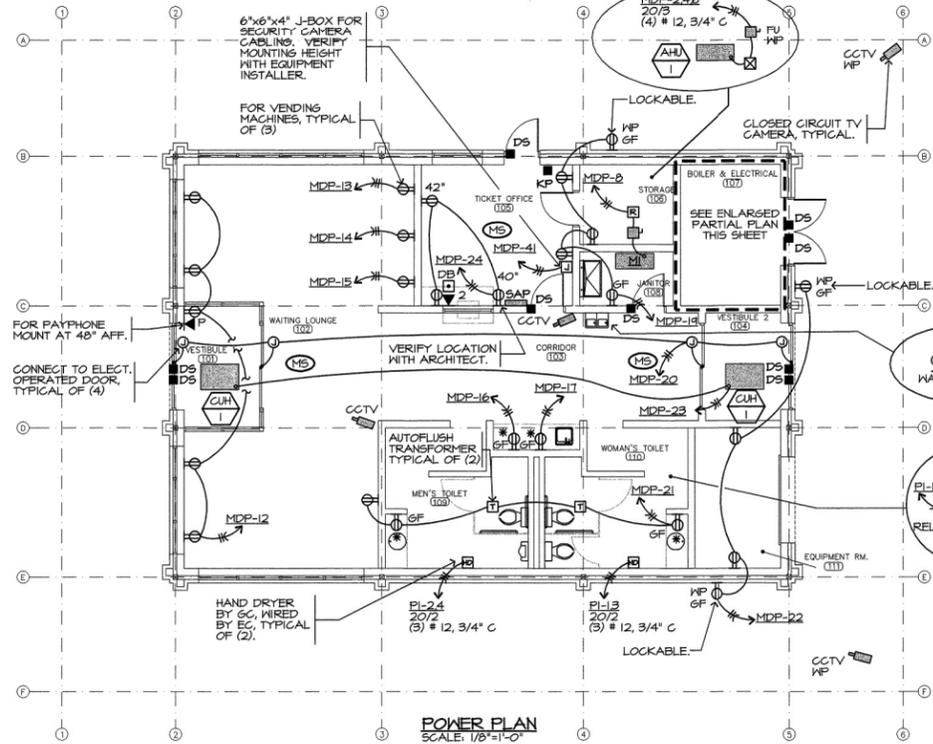
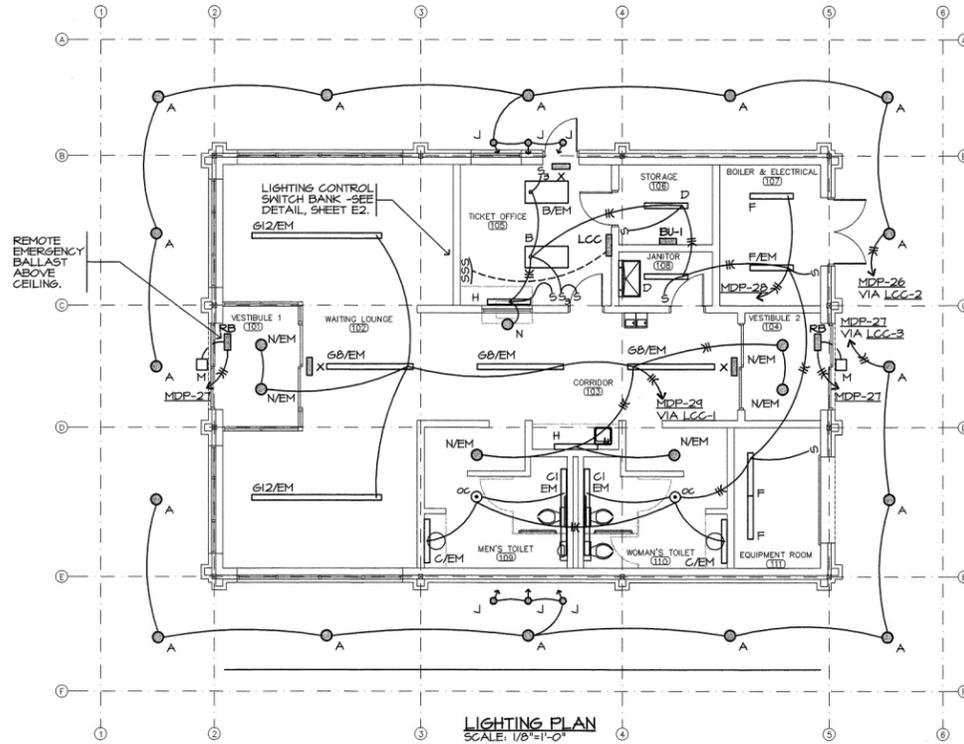
wv engineering associates inc. pa
 05171
 mechanical electrical consulting engineers
 po box 769 keene, new hampshire 03431
 603 352 7007 fax 352 7005



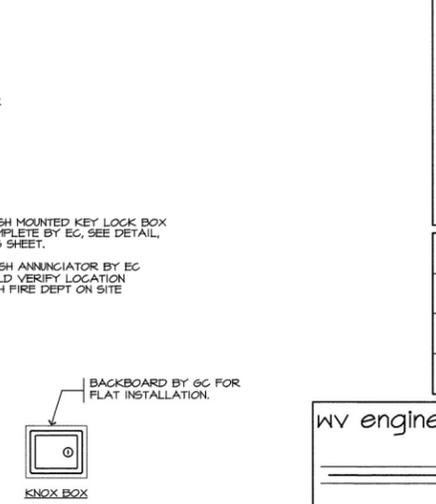
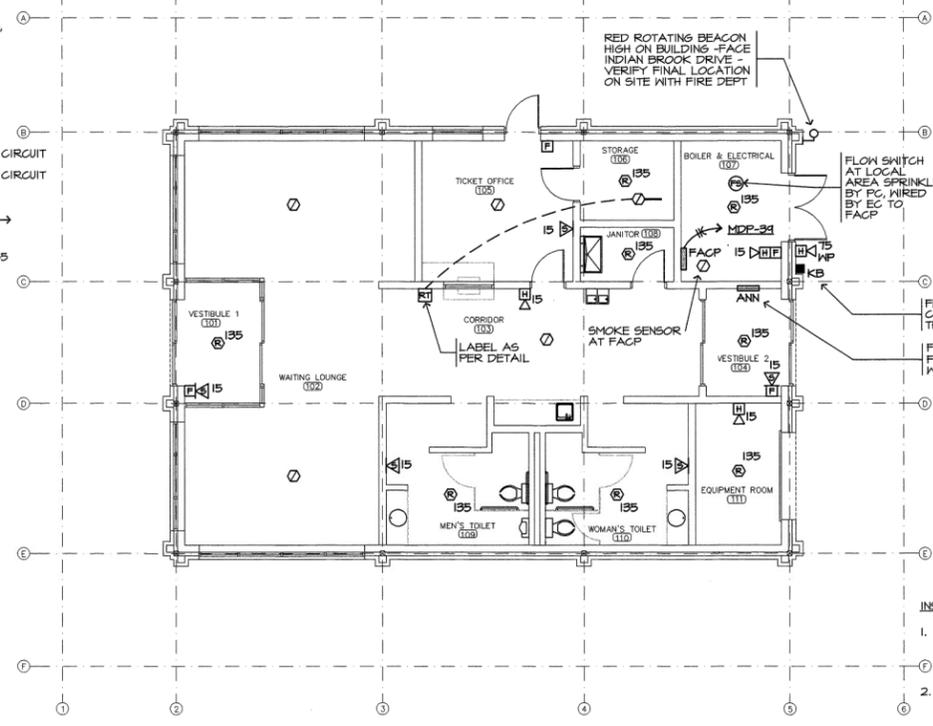
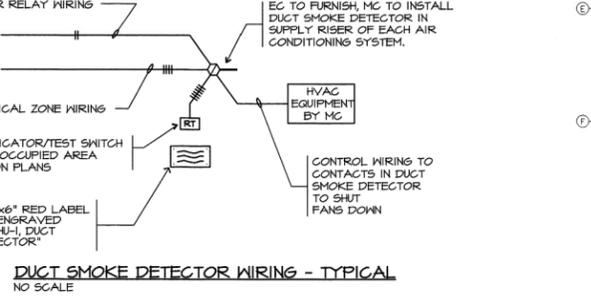
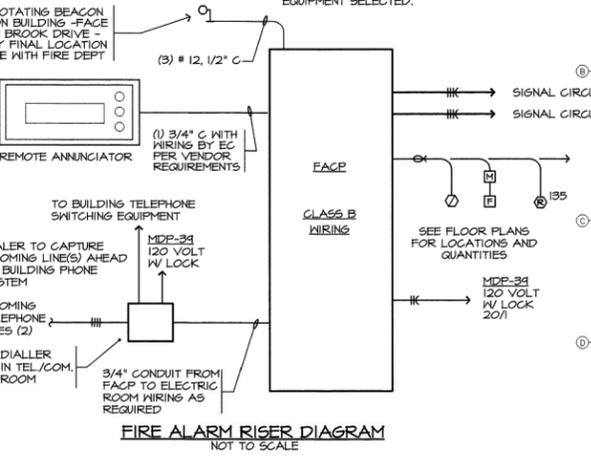
EO

BATTERY UNIT WIRING NOTES:

1. WIRE BATTERY UNITS AND EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHES OR AUTOMATIC CONTROLS
2. WIRE BATTERY UNITS SERVING EXTERIOR EMERGENCY LIGHTING TO EXTERIOR LIGHTING CIRCUIT AHEAD OF AUTOMATIC CONTROLS
3. BATTERY UNITS BU-I SERVING EXTERIOR EMERGENCY LIGHTING SHALL BE UTILITY TYPE, INSTALLED IN UTILITY ROOMS AND INCLUDE TIME DELAY RELAY TO EXTEND OPERATING TIME AFTER RETURN OF NORMAL POWER BY 15 MINS TO PROVIDE COVERAGE DURING EXTERIOR LIGHTING RESTRIKE TIMES

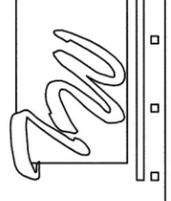


- NOTES:**
1. LOAD SIGNAL CIRCUITS TO NO MORE THAN 80% BASED ON LAYOUTS TO ALLOW FOR FUTURE OWNER GROWTH/CAPACITY.
 2. SIGNAL CIRCUITS TO BE FULLY SYNCHRONIZED.
 3. VENDOR/CONTRACTOR TO ASSIGN ADDRESSES, LABEL DEVICES AND SIZE SIGNAL CIRCUIT PANELS BASED ON CAPACITY OF EQUIPMENT SELECTED.



- INSTALLATION NOTES:**
1. FIELD VERIFY LOCATIONS FOR KNOX BOX ON SITE WITH LOCAL FIRE DEPARTMENT PRIOR TO APPLICATION OF SIDING OR ELECTRICAL ROUGHIN.
 2. PROVIDE SOLID-THROUGH BOLT ANCHORAGE FOR KNOX BOX PER MANUFACTURERS WRITTEN INSTRUCTIONS.
 3. PROVIDE FLUSH INSTALLATION. SET PLUMB, CAULK BEHIND TRIM RINGS AT INSTALLATION.

TENNANT/WALLACE ARCHITECTS AIA PA
MANCHESTER, NH 03101
TEL: (603) 664-5655



DOVER BUS FACILITY
Dover, New Hampshire

project no. 05171
drawn by CTS
checked by WRW
doc. date 05-25-06

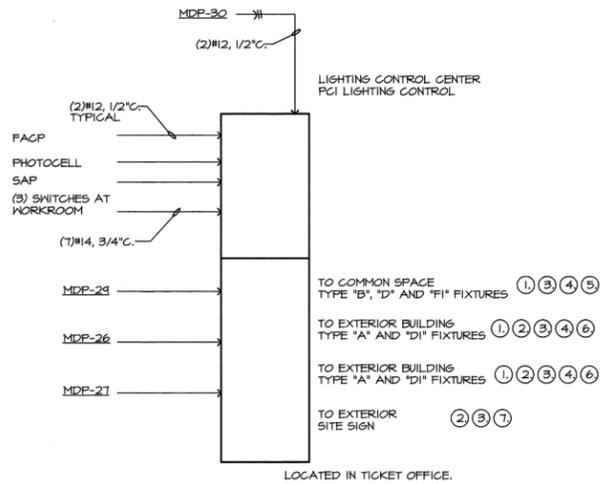
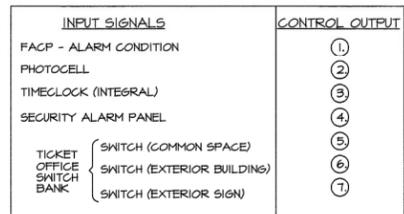
wv engineering associates inc. pa

mechanical electrical consulting engineers
po box 769 keene, new hampshire 03431
603 352 7007 fax 352 7005

ELECTRICAL FLOOR PLANS

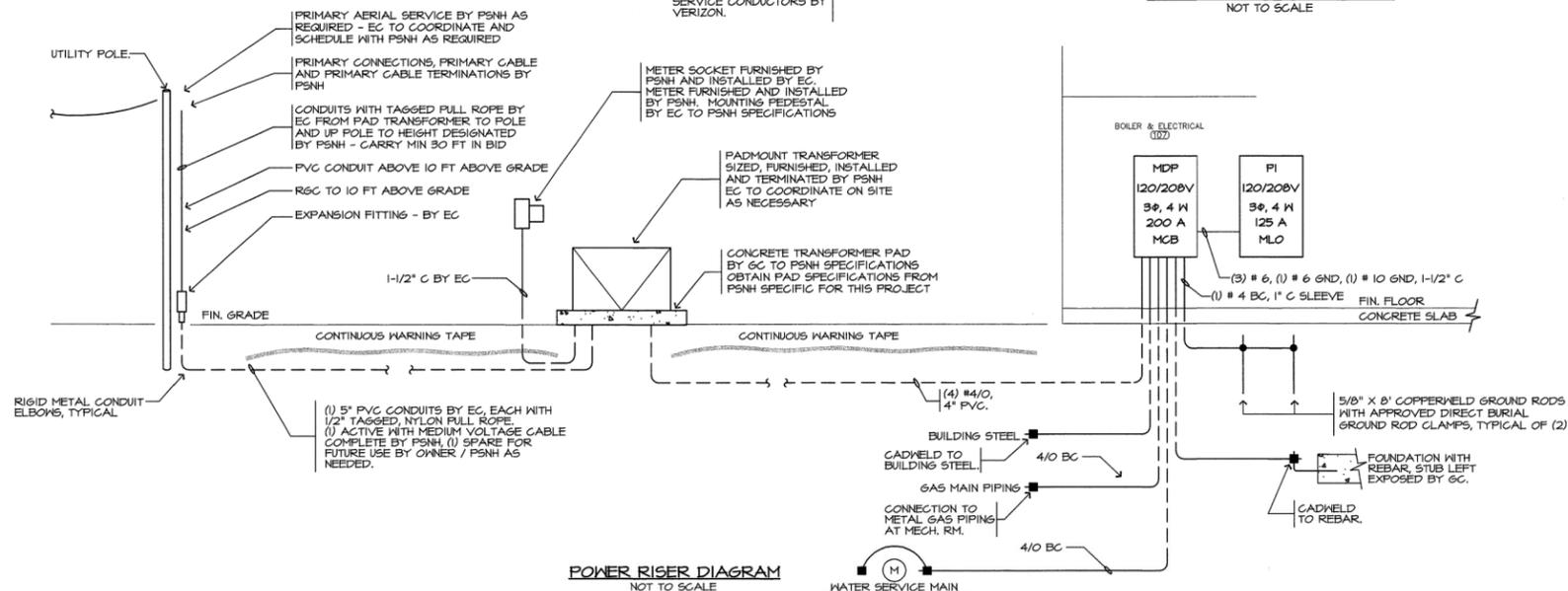
PANEL:	MDP	VOLTAGE:	120/208	PHASE:	3	MAIN:	200 A - MLO	MCB
TYPE:	PANELBOARD	LOADCENTER	FLUG IN	BOLT ON	FAULT RATING:	22,000 AIC		
LOCATION:	BOILER/ELECT RM.	MOUNTING:	SURFACE					
DIRECTORY	TRIP	⌚	A⊕	B⊕	C⊕	⌚	TRIP	DIRECTORY
ACUI	50/3	1	3000 800			2	20/3	AIR HANDLER - AHU-1 1-1/2 HP
--	--	3		3000 800		4	--	--
--	--	5			3000 800	6	--	--
TIMELOCK POWER	20/1	7	150 360			8	20/1	BOILER/ELECT. ROOM RECEPTACLES
ELECTRIC WATER HEATER	30/2	9		2250 360		10	20/1	TELE.COMM. RECEPTACLES
--	--	11			2250 400	12	20/1	WAITING LOUNGE/VESTIBULE RECEPTACLES
(BL) VENDING MACHINE	20/1	13	1000 1000			14	20/1	VENDING MACHINE (BL)
(BL) VENDING MACHINE	20/1	15		1000 300		16	20/1	COUNTER RECEPTACLE (GF)
(GF) COUNTER RECEPTACLE	20/1	17			360 500	18	20/1	WC RECEPTACLE (GF)
EXTERIOR/STOR./JAN. RECEPTACLES	20/1	19	120 1000			20	20/1	ELECTRIC DOORS (GTY. OF 4)
MENS/WOMENS TOILETS RECEPTACLES	20/1	21		500 800		22	20/1	EXTERIOR RECEPTACLES EF, MOD
CEILING CAB. HEATERS (2) CUH-15	20/1	23			600 120	24	20/1	TICKET OFFICE RECEPTACLES
(BL) ATC POWER	20/1	25	800 400			26	20/1	EXTERIOR CANOPY LIGHTING (VIA LCC-2)
EXTERIOR CANOPY LIGHTING (VIA LCC-3)	20/1	27		400 1000		28	20/1	INTERIOR SERVICE AREAS LIGHTING
INTERIOR PUBLIC AREAS LIGHTING (VIA LCC-1)	20/1	29			100 1400	30	20/2	SPARE
CIRC. PUMPS (P-1, P-2)	20/1	31	500 1400			32	--	--
SPARE	20/1	33		500 1400		34	20/2	SPARE
(GF) SPARE	20/1	35		500 1400		36	--	--
(BL) BOILER (B-1)	20/1	37	1000 5000			38	60/3	SUBPANEL "P1"
(BL) FACP FIRE ALARM CONTR. PNL.	20/1	39		500 3000		40	--	--
(BL) SAP SECURITY ALARM PANEL	20/1	41		500 5000		42	--	--
CONNECTED LOAD			18230	18310	18630			NOTES
DEMAND	70%		12761	12761	13041			SUITABLE FOR USE AS SERVICE EQUIPMENT - PROVIDE UL LABEL (GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD				38563				

PANEL:	P1	VOLTAGE:	120/208	PHASE:	3	MAIN:	125 A - MLO	MCB
TYPE:	PANELBOARD	LOADCENTER	FLUG IN	BOLT ON	FAULT RATING:	22,000 AIC		
LOCATION:	BOILER/ELECT RM.	MOUNTING:	SURFACE					
DIRECTORY	TRIP	⌚	A⊕	B⊕	C⊕	⌚	TRIP	DIRECTORY
WOMENS HAND DRYER	20/2	1	1200 1200			2	20/2	MENS HAND DRYER
--	--	3		1200 1200		4	--	--
SPARE	20/3	5		500 500		6	20/3	SPARE
--	--	7	500 500			8	--	--
--	--	9		500 500		10	--	--
GUTTER DEICING	15/2	11		500 500		12	15/2	GUTTER DEICING
--	--	13	500 500			14	--	--
GUTTER DEICING	15/2	15		500 500		16	15/2	GUTTER DEICING
--	--	17	500 500			18	--	--
EXHAUST FAN (EF-1)	20/1	19	500 500			20	20/1	SPARE (GF)
GUTTER SYSTEM DEICING CONTROL	20/1	21		500 500		22	20/1	SPARE (GF)
SPARE	20/1	23		500 500		24	20/1	SPARE (GF)
SPARE	20/1	25	500 500			26	20/1	SPARE (GF)
SPARE	20/1	27		500 500		28	20/1	SPARE
SPARE	20/1	29		500 500		30	20/1	SPARE
SPARE	20/1	31	500 500			32	20/1	SPARE
SPARE	20/1	33		500 500		34	20/1	SPARE
SPARE	20/1	35		500 500		36	20/1	SPARE
SPARE	20/1	37	500 500			38	20/1	SPARE
SPARE	20/1	39		500 500		40	20/1	SPARE
SPARE	20/1	41		500 500		42	20/1	SPARE
CONNECTED LOAD			8400	8400	1000			NOTES
DEMAND	70%		5880	5880	4400			SUITABLE FOR USE AS SERVICE EQUIPMENT - PROVIDE UL LABEL (GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD				16660				

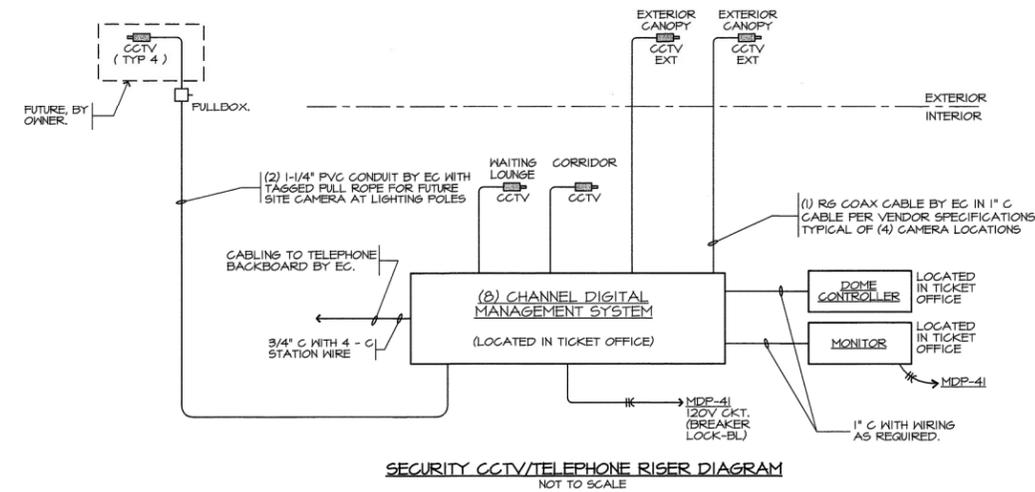


LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

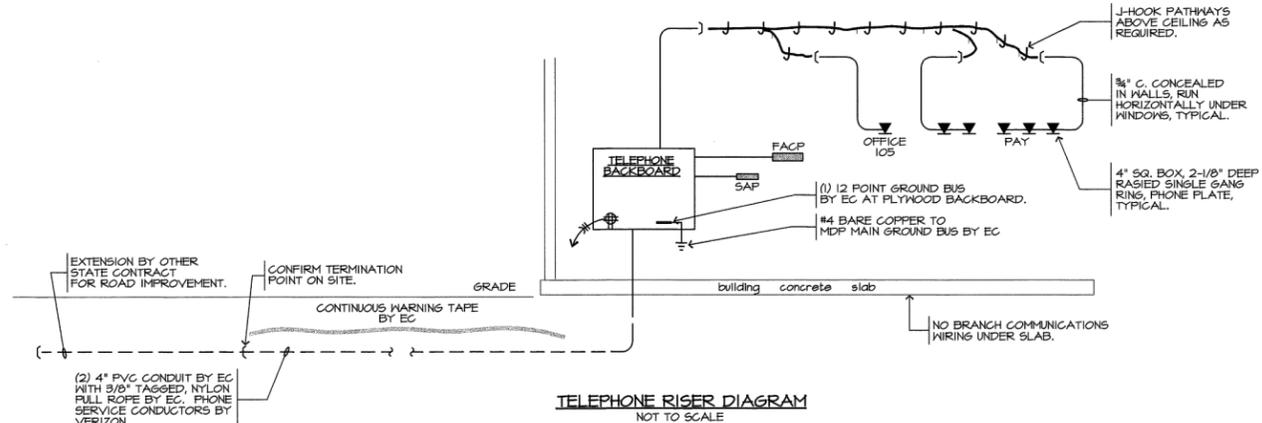
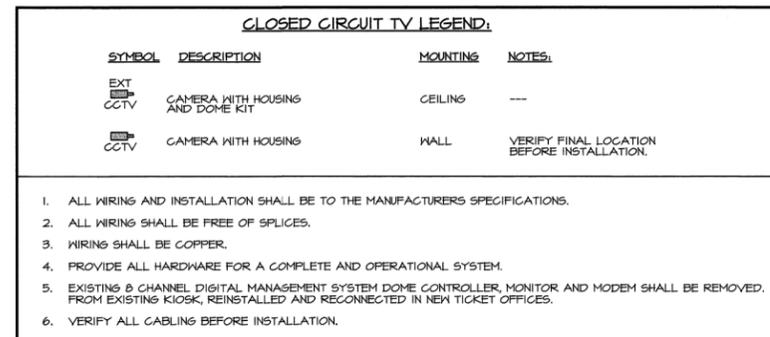
- NOTES:
1. THERE SHALL BE A SWITCH FOR EACH AREA NOTED. SWITCHES SHALL BE LABELED IN A PERMANENT FASHION AND SHALL BE LOCATED IN THE TICKET OFFICE.
 2. REGULAR (OCCUPIED HOURS) COMMON AREA LIGHTING SHALL BE CONTROLLED BY THE FIRE ALARM (FACP), TIMECLOCK AND SWITCHES.
 3. PROVIDE PROGRAMMING AND TRAINING FOR OWNERS, VERIFY TIMECLOCK SETTINGS WITH OWNER.
 4. LIGHTING CONTROL PANEL (LCC) SHALL BE PCI LITE KEEPER OR APPROVED EQUAL.



POWER RISER DIAGRAM
NOT TO SCALE



SECURITY CCTV/TELEPHONE RISER DIAGRAM
NOT TO SCALE



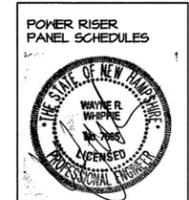
TELEPHONE RISER DIAGRAM
NOT TO SCALE

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POWER RISER
PANEL SCHEDULES
E
2