DRAWING LIST ARCHITECTURAL

TITLE SHEET (THIS SHEET) TS-2 NOTES & SYMBOLS

A-1.0

A-1.1 A-1.2

A-3.0

A-3.1

ELECTRICAL, MECHANICAL & PLUMBING

E-1 ELECTRICAL FLOOR PLAN - CONCESSION BUILDING ELECTRICAL FLOOR PLAN - RESTROOM BUILDING E-2

> MECHANICAL FLOOR PLAN - CONCESSION BUILDING MECHANICAL FLOOR PLAN - RESTROOM BUILDING MECHANICAL SCHEDULES

M-3 P-1

PLUMBING FLOOR PLAN - CONCESSION BUILDING PLUMBING FLOOR PLAN - RESTROOM BUILDING

PLUMBING DETAILS & SCHEDULES

P-2 P-3

M-1

M-2

CONCESSION BUILDING - SCHEDULES & DETAILS RESTROOM BUILDING - FLOOR & ROOF PLAN, ELEVATIONS & SECTIONS **RESTROOM BUILDING - DETAILS & SCHEDULES**

CONCESSION BUILDING - ELEVATIONS, INTERIOR ELEVATIONS & SECTIONS

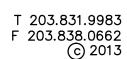
CONCESSION BUILDING - FLOOR PLAN & ROOF PLAN

JANUARY 25, 2013

CITY OF NEW LONDON NEW LONDON, CT

BATES WOOD PARK **BUILDING IMPROVEMENTS** PHASE II NEW LONDON, CT

ARCHITECT: STEIN TROOST uc architecture



one morgan avenue norwalk connecticut 06851

STRUCTURAL GENERAL NOTES A. GENERAL G. MASONRY CONSTRUCTION 1. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR 1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST ADDITIONAL INFORMATION AND DETAILS. ALSO, SEE SPECIFICATIONS. EDITION OF "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-02/ASCE 5-02). B. DESIGN AND LOADING 2. ALL MASONRY SHALL BE LAID IN RUNNING BOND. 1. ALLOWABLE UNIT STRESSES AND DESIGN CRITERIA IN ACCORDANCE WITH THE FOLLOWING: 3. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318-02 4. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM CEMENT CONTENT OF "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION 7.0 SACKS OF PORTLAND CEMENT PER CUBIC YARD. OF STRUCTURAL STEEL FOR BUILDINGS" AISC 1989. C) "STATE OF CONNECTICUT INTERNATIONAL BUILDING CODE 2003" WITH 5. PROVIDE BOND BEAMS OR REINFORCED GROUTED UNITS WITH 2-#5 HORI-2005 & 2009 SUPPLEMENTS ZONTAL CONTINUOUS REINFORCEMENT IN ALL MASONRY WALLS AT: 2. ALLOWABLE PRESUMPTIVE SOIL BEARING PRESSURE: A) THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 INCHES NOR LESS THAN 40 BAR DIAMETER PAST THE COLUMN FOOTING 1.5 TONS/SF OPENING 1.0 TONS/SF B) WALL FOOTING B) STRUCTURALLY CONNECTED ROOF LEVELS AND AT THE TOP OF WALLS 3. DESIGN STRESSES AND MATERIAL: C) AT THE BOTTOM OF THE WALL OR IN THE TOP OF THE FOUNDATIONS WHEN DOWELLED TO THE WALL. A) CONCRETE (28-DAY STRENGTH, NORMAL WEIGHT) -FLATWORK 3.000 PSI 4,500 PSI D) AT MAXIMUM SPACING OF 10 FEET UNLESS UNIFORMLY DISTRIBUTED REINFORCING STEEL ASTM A-615 FY = 60 KSI JOINT REINFORCEMENT IS PROVIDED. WELDED-WIRE ASTM A-185 FY = 60 KSI STRUCTURAL STEEL ASTM A36 FY=36 KSI 6. PROVIDE MINIMUM OF ONE #5 CONTINUOUS VERTICAL REINFORCEMENT IN E) STRUCTURAL WOOD: DOUGLAS FIR #2 OR BETTER ALL MASONRY WALLS AT: F) LAMINATED VENEER LUMBER E = 1,900,000 PSI, Fb = 2,600 PSI A) MINIMUM OF 48 INCHES ON CENTER UNLESS OTHERWISE NOTED C. FOUNDATION B) ALL SIDES AND EDGES OF MASONRY OPENINGS AND SHALL EXTEND NOT 1. ALL FOUNDATION EXCAVATIONS SHALL BE TO REQUIRED ELEVATION OR LESS THAN 24 INCHES NOR LESS THAN 40 BAR DIAMETER PAST THE UNDISTURBED SOIL. ALL FOUNDATIONS EXCAVATIONS SHALL BE TO OPENING SOUND GROUND. 7. ALL MASONRY CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID 2. STRUCTURAL FILL SHALL BE APPROVED STRUCTURAL GRAVEL COMPACTED WITH GROUT. GROUT SHALL BE SAME TYPE AS MORTAR. IN 8" LAYERS TO 95% OF MODIFIED OPTIMUM DENSITY. 3. PROVIDE A MINIMUM 16" LAYER OF 3/8" CRUSHED STONE BENEATH ALL 8. ALL VERTICAL MASONRY REINFORCEMENT SHALL BE DOWELED (18 INCHES) CONCRETE SLABS/FLATWORK. MINIMUM INTO SUPPORTING FOUNDATION WALL OR FOOTING, UNLESS OTHER-WISE NOTED. 4. ALL FOUNDATION EXCAVATIONS AND STRUCTURAL FILL SHALL BE TESTED AND INSPECTED TO ENSURE THE ALLOWABLE SOIL BEARING PRESSURE AND 9. REINFORCEMENT SHALL BE HELD IN PLACE USING POSITIONERS AT THE DENSITY OF FOUNDATION BEARING MATERIALS. START, END AND SPLICES OF EACH BAR. PROVIDE ADDITIONAL SUPPORTS AT INTERVALS NOT GREATER THAN 192 BAR DIAMETERS OR 10'-0". D. CONCRETE WORK AND REINFORCING 10. SPLICE REINFORCEMENT A MINIMUM LAP OF 48 BAR DIAMETERS OR 12 1. REINFORCING TO BE LAPPED 36 BAR DIAMETERS AT ALL CORNERS, INCHES, WHICHEVER IS GREATER. SPLICES, DOWELS, ETC. 11. SINGLE WYTHE JOINT REINFORCEMENT TO BE LADDUR TYPE, 3/16" DIAMETER 2. PROVIDE TWO (2) #5 BARS ON ALL SIDES AND DIAGONALLY AT CORNERS OF OPENINGS THROUGH CONCRETE WALLS. BARS TO EXTEND 2'-0" BEYOND SIDE RODS WITH 9 GAGE CROSS TIES CONFORMING TO ASTM A82, PLACED HORIZONTALLY WITH A MAXIMUM VERTICAL SPACING OF 16 INCHES. WIRE EDGE OF OPENING. REINFORCEMENT TO BE GALVANIZED. 3. UNLESS OTHERWISE NOTED, ALL FOUNDATION WALLS ARE TO BE REIN-12. CONCRETE MASONRY UNITS SHALL BE OF SIZE AND SHAPE INDICATED ON FORCED WITH TWO (2) #5 BARS, CONTINUOUS TOP AND BOTTOM. PLANS. TYPICAL 8 INCH THICK UNIT SHALL BE 8X8X16 MODULAR WITH TWO CELLS AND SHALL HAVE A NET/GROSS AREA RATIO OF 53%. 4. HORIZONTAL WALL CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT WHERE SHOWN. 13. DO NOT USE ADMIXTURES CONTAINING CHLORIDES, NITRITES OR NITRATES. 5. AIR-ENTRAIN ALL EXPOSED CONCRETE. 14. ALL HORIZONTAL BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. 6. COVER FOR REINFORCING: CONCRETE PLACED ON EARTH FORMED CONCRETE EXPOSED TO GROUND OR WEATHER: 1-1/2 FORMED CONCRETE NOT EXPOSED TO GROUND OR WEATHER: 3/4" E. STEEL H. STRUCTURAL WOOD FRAMING ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN 1. ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS 1. ALL STRUCTURAL WOOD FRAMING SHALL CONFORM TO AND BE ERECTED IN FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND THE AMERICAN FOR BUILDINGS". INSTITUTE OF TIMBER CONSTRUCTION. WHEREVER WELDING IS EMPLOYED, EITHER IN FABRICATION OR ERECTION ALL SUCH WELDING SHALL BE PERFORMED BY QUALIFIED 2. PLYWOOD SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD WELDERS IN COMPLETE ACCORD WITH THE "STRUCTURAL WELDING ASSOCIATION (APA) SPECIFICATIONS. CODE - STEEL" OF THE AMERICAN WELDING CODE. 3. ALL WOOD FRAMING IN CONTACT WITH CONCRETE SHALL BE PRESSURE 3. FURNISH LOOSE ANGLE LINTELS, UNLESS OTHER LINTELS ARE SPECIFICALLY INDICATED, FOR ALL OPENINGS IN MASONRY WALLS 4. ALL NAILS, SCREWS, SPIKES, ETC., TO BE COMMON STEEL. FOR DOORS, WINDOWS, DUCTS, PASS-THROUGHS, ETC. FOR EACH FOUR (4) INCHES OF MASONRY, FURNISH ONE ANGLE AS FOLLOWS: 5. JOIST HANGERS, FRAMING ANGLES AND CLIPS SHALL BE EQUAL TO THOSE SPAN LINTEL MANUFACTURED BY THE SIMPSON STRONGTIE COMPANY, PLEASANTON, CA 6. CARPENTRY SHALL BE ERECTED TRUE TO LINES, LEVELS AND DIMEN-Up to 4'-6" L3-1/2 x 3-1/2 x 5/16 SIONS SHOWN OR REQUIRED; SHALL BE SQUARED, ALIGNED AND 4'-6" to 5'-6" L4 x 3-1/2 x 5/16 PLUMBED; SECURELY FASTENED IN PLACE IN AN APPROVED MANNER. 5'-6" to 6'-6" L5 x 3-1/2 x 5/16 6'-6" to 7'-8" L6 x 3-1/2 x 3/8 7. ALL JOINTS SHALL BE NEATLY AND ACCURATELY MADE. FITTED TIGHT. BLOCKED OR OTHERWISE PUT TOGETHER SO AS TO AVOID OPENING OR FOR SIX (6") INCH WALLS, USE TWO (2) ANGLES WITH 2-1/2-INCH LEGS ROTATION. OUTSTANDING. FOR FOUR (4") INCH WALLS, USE ST3 x 6.25. PROVIDE 8. MEMBERS OF ROUGH WOODWORK SHALL BE SECURELY FASTENED TOGETHER MINIMUM SIX (6") INCH LONG BEARING FOR ALL LINTELS. AND TO SUPPORTING CONSTRUCTION; NAILED, SPIKED, LAG SCREWED OR BOLTED AS REQUIRED. 4. ALL LINTELS TO BE GALVINIZED 9. ALL NAILED CONNECTIONS SHALL BE SECURED IN ACCORDANCE WITH 5. SUBMIT SHOP DRAWINGS, INCLUDING LINTEL SCHEDULE "STATE OF CONNECTICUT INTERNATIONAL BUILDING CODE" 2003 - NAILING SCHEDULE. 10. FOR BOLTED CONNECTIONS, DRILL HOLES 1/16" LARGER IN DIAMETER THAN THE BOLTS BEING USED. DRILL STRAIGHT AND TRUE FROM ONE

UNDER ALL NUTS. 11. FOR LAG-SCREWS AND WOOD SCREWS, PRE-BORE HOLES SAME DIAMETER AS ROOT OF THREADS; ENLARGE HOLES TO SHANK DIAMETER FOR LENGTH OF SHANK. SCREW, DO NOT DRIVE, ALL LAG SCREWS AND WOOD SCREWS.

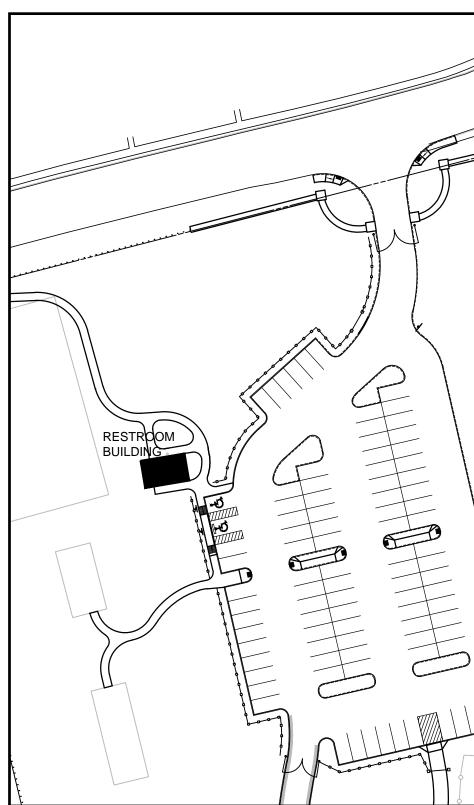
SIDE ONLY. BOLT THREADS SHALL NOT BEAR ON WOOD. USE WASHERS

 ALL MULTIPLE PLY LAMINATED VENEER LUMBER BEAMS SHALL BE NAILED WITH (3)-ROWS OF 12d NAILS SPACED AT 12" O.C.

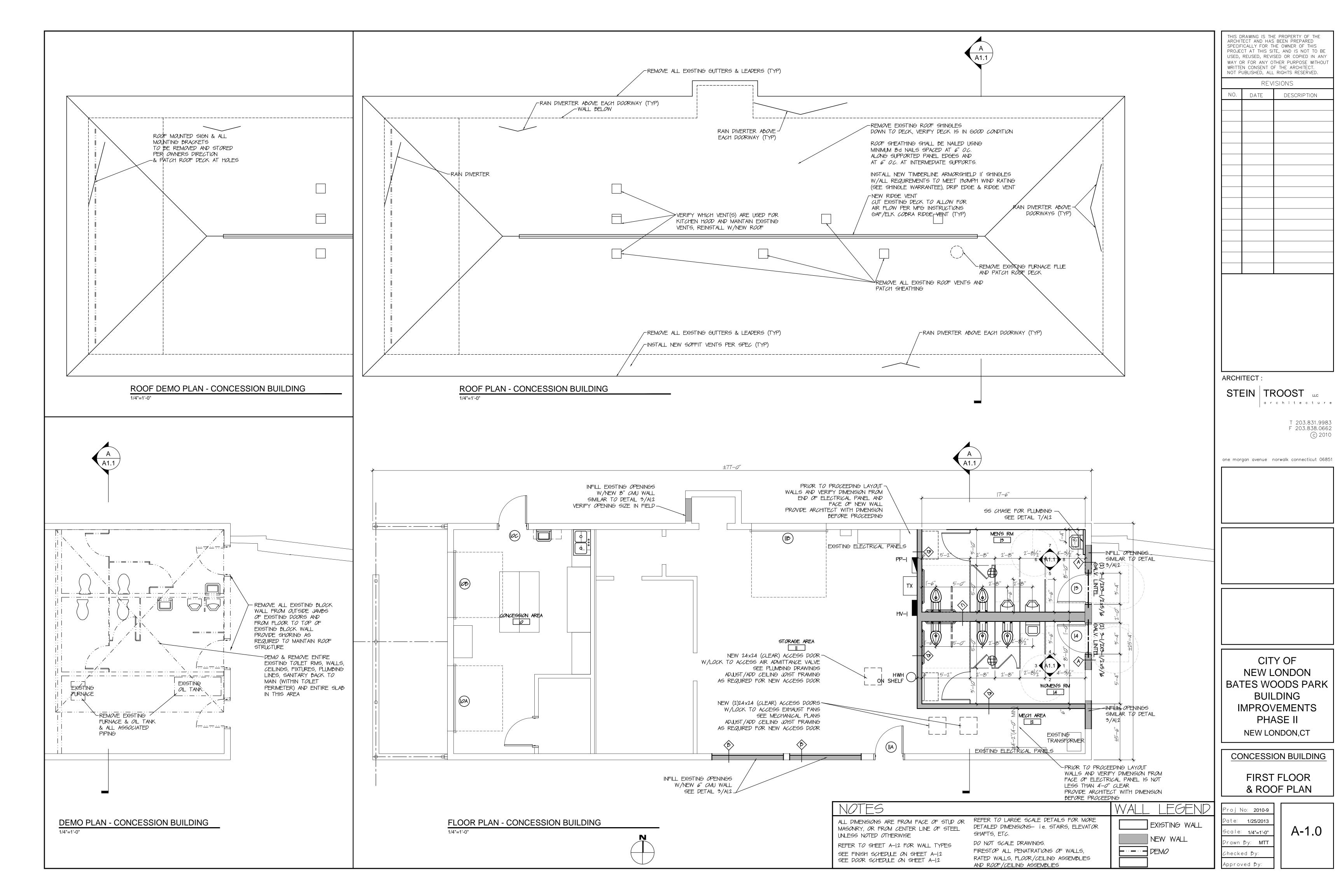
STRUCTURAL LOAD	<u>DS</u>		
LIVE LOAD:			
A) ROOF LIVE LOAD -		2	0psf
	 GROUND SNOW LOAD FLAT ROOF SNOW LO EXPOSURE (EXP. B, THERMAL FACTOR SNOW IMPORTANCE F UNBALANCED SNOW 	FACTOR (CAT. ii) ls	s= 1.0 0 PSF
LATERAL LOADS:			
A) WIND LOADS	-BASIC WIND SPEED -WIND LOAD IMPORTA -WIND EXPOSURE -BASIC VELOCITY PRE		120 mp = 1.00 C 27 psf
COMPONENT WIND LO	ADS: TYPICAL psf		
–WALLS –SLOPE	5 – 38 ED ROOF – 52	 _78	-63 -101
B) SEISMIC LOADS	-SPECTRAL RESPONSE -1 SECOND PERIOD -SEISMIC USE GROU -SEISMIC DESIGN CAT -SOIL PROFILE TYPE PAGE STRUCTURAL		S1=0.0 I B D
	-BASIC STRUCTURAL		
	-SEISMIC RESISTING	ASONRY SHEAR WA TION FACTOR F CATION FACTOR C	R=3.0 d=2.5

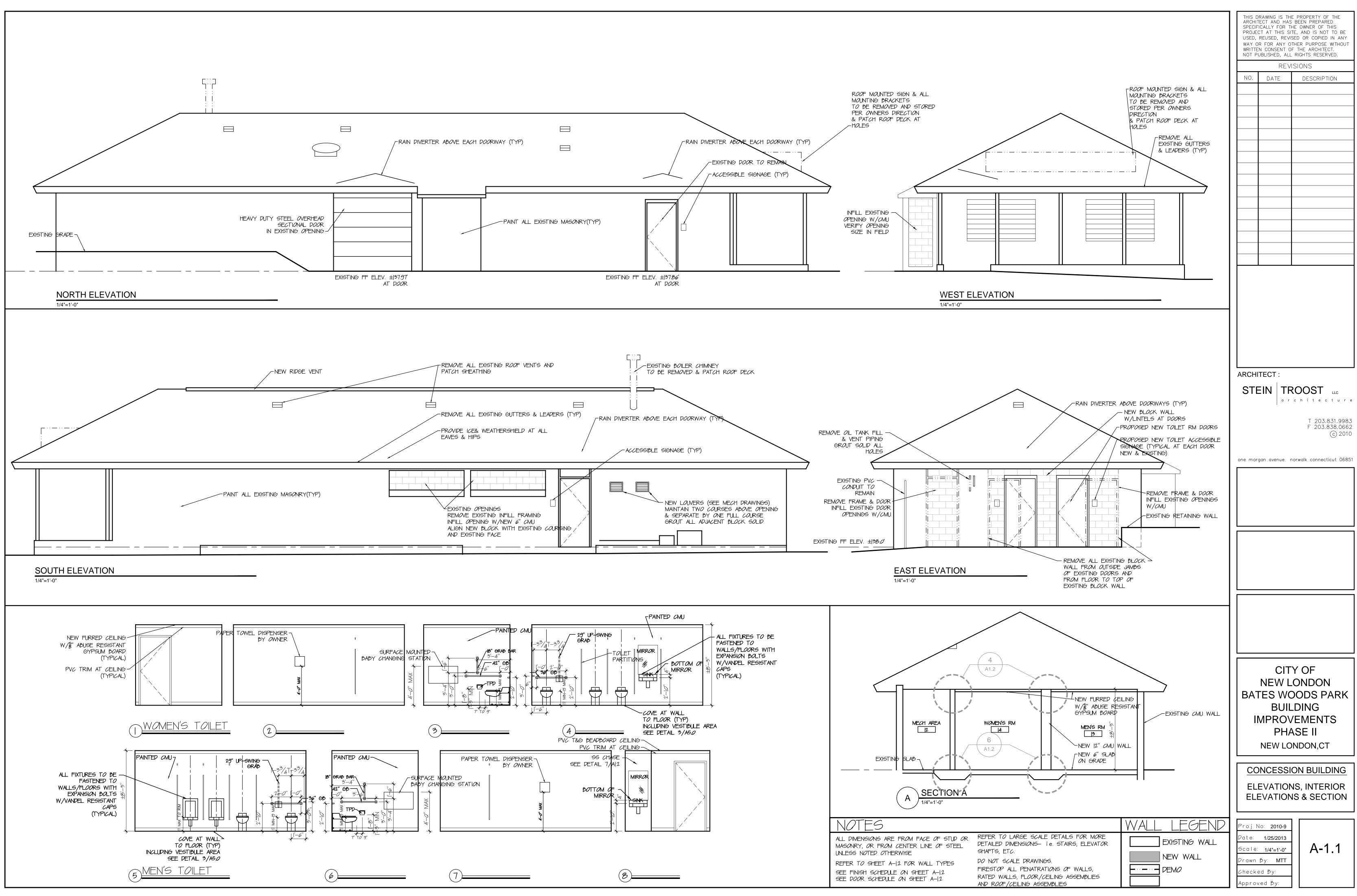
\sim	WALL TYPE
€LEV. 6 7'− "	SPOT ELEVATION MARK
- CLEV. 617'-1"	FINISH FLOOR VERTICAL ELEVATION MARK
FC-I	FLOOR/CEILING & ROOF/CEILING SYMBOL
$\langle X \rangle$	WINDOW SYMBOL
X	DOOR SYMBOL
X	ELEVATION SYMBOL [X] – ELEVATION IDENTIFICATION [AN.N] – SHEET NUMBER
N XXXXX	ROOM IDENTIFICATION
	[NNN] - ROOM NUMBER (NUMBER ACCORDING TO FLOOR) i.e FIRST FLOOR = 101, 102, etc. i.e SECOND FLOOR = 201, 202, etc [XXXXX] - ROOM NAME
X AN.N	FULL BUILDING SECTION SYMBOL [X] – SECTION IDENTIFICATION (ALWAYS A LETTER i.e A/6.1, B/A6.1 etc.) [AN.N] – SHEET NUMBER
N AN.N	PARTIAL SECTION SYMBOL [N] – ELEVATION IDENTIFICATION (ALWAYS A NUMBER i.e 1/6.1, 2/A6.1 etc.) [AN.N] – SHEET NUMBER
N ()	DETAIL SYMBOL [N] – DETAIL IDENTIFICATION (ALWAYS A NUMBER i.e 1/6.1, 2/A6.1 etc.) [AN.N] – SHEET NUMBER

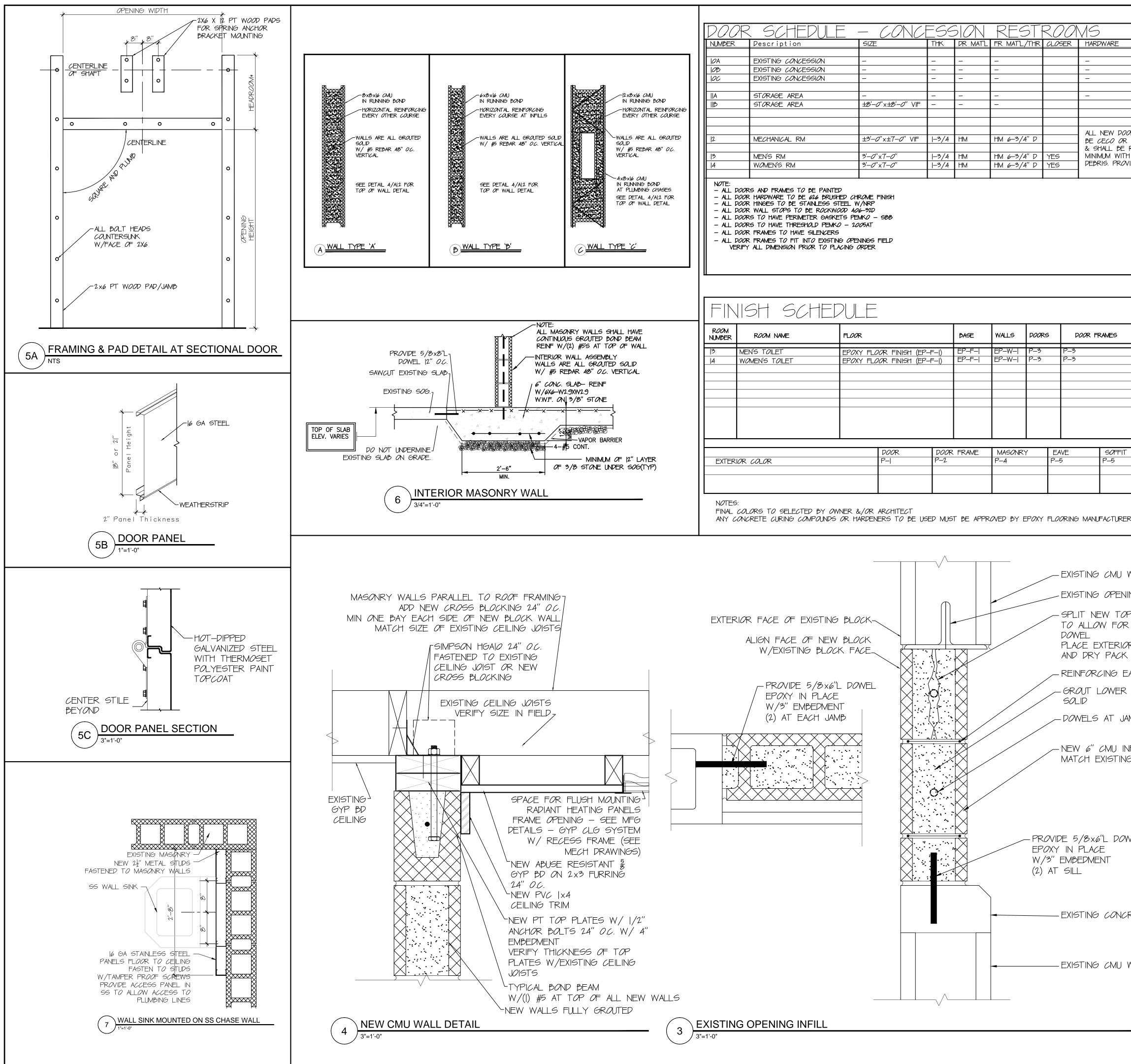




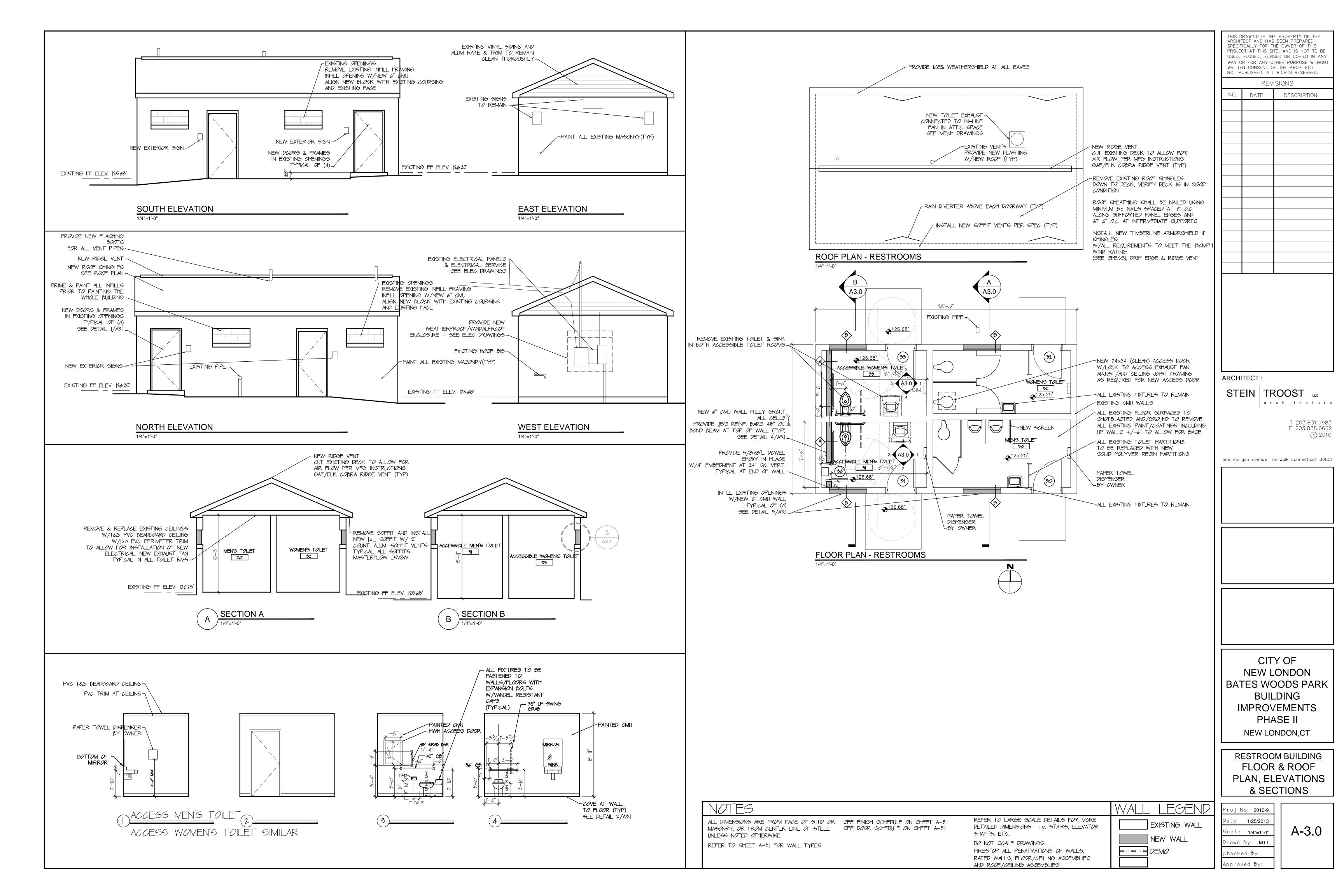
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architecture T 203.831.9983 F 203.838.0662
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CITY OF NEW LONDON BATES WOODS PARK BUILDING IMPROVEMENTS PHASE II NEW LONDON,CT
NOTES & SYMBOLS
Proj No: 2910-2 Date: 1/25/2013 Scale: NTS Drawn By: MTT Checked By: Approved By:

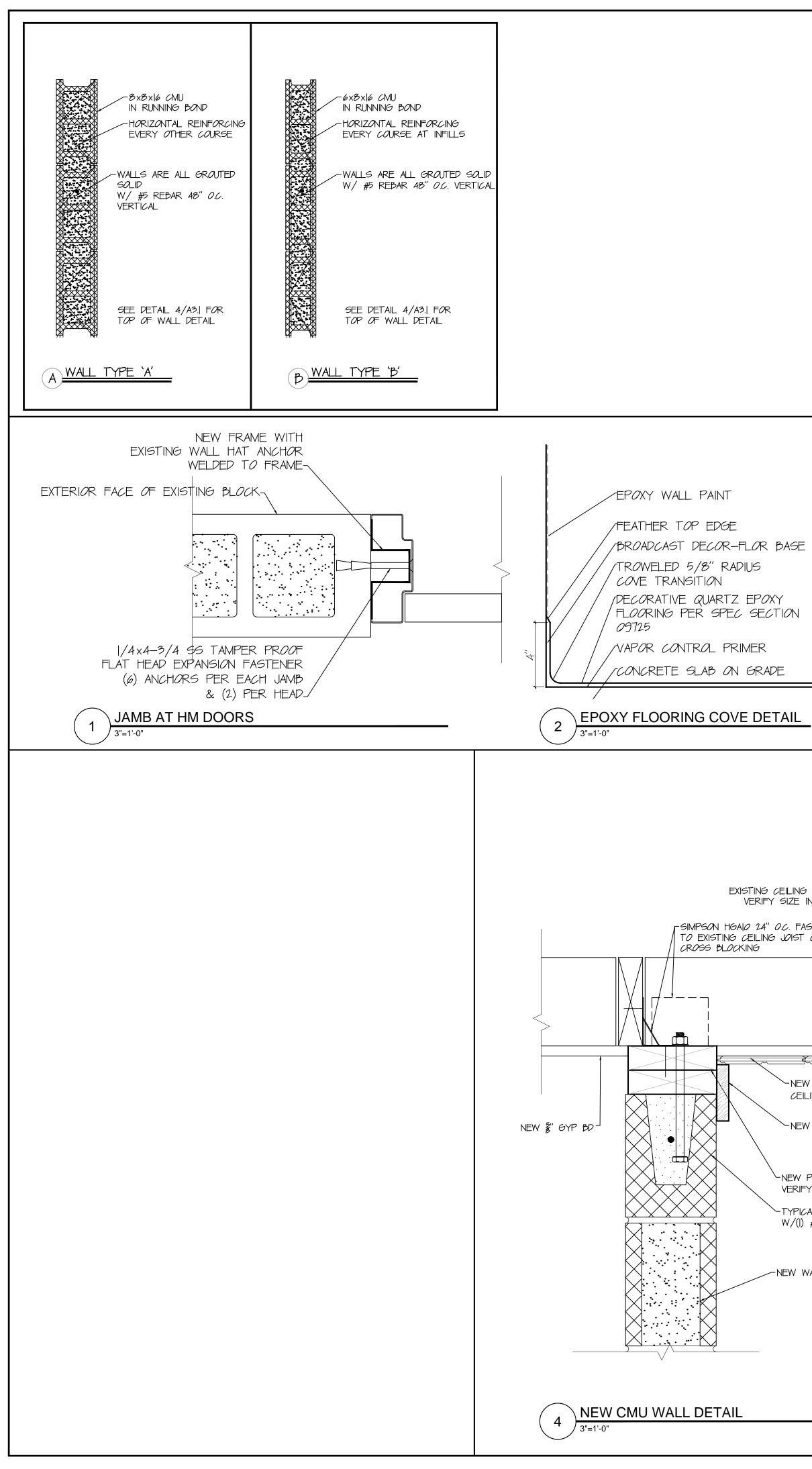






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9RS, FRAMES & HARDWARE SHALL	W/MORTORIZED OPENER IN EXISTING OPENING SEE DETAILS 5A, 5B & 5C ON SHEET AI.2			
CURRIES "STORMPRO 320 & 32 " RATED FOR 120 MPH WINDS	DOOR FRAME HEAD - VIF, ALUM SILL 1/2" H MAX.			
1 IMPACT FR <i>O</i> M WIND-BORNE /IDE MANUFACTURER TESTING DATA.	DOOR FRAME HEAD - VIF, ALUM SILL 1/2" H MAX. DOOR FRAME HEAD - VIF, ALUM SILL 1/2" H MAX.			
1 1				
CEILING NOTES:				
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		one	e moraan avenue norv	valk connecticut 06851
	NEW FRAME WITH			
	WALL HAT ANCHOR WELDED TO FRAME-			
NG LINTEL ? 6" CMU INFILL	EXTERIOR FACE OF BLOCK			
INSTALL OF HORZ.				
	ROUT SOLID NEW BLOCK			
ACH COURSE				
COURSES				
MB 1/4×	4-3/4 \$\$ TAMPER PROOF		2	
FLAT H	EAD EXPANSION FASTENER ANCHORS PER EACH JAMB			
5 WALL COURSING	& (2) PER HEAD_/			
(1) JAMI 3"=1'-0"	3 AT HM DOORS			
			CITY	
			NEW LC BATES WOO	
VEL			BUILD	NG
	EPOXY WALL PAINT		IMPROVE PHAS	
	FEATHER TOP EDGE BROADCAST DECOR-FLOR BASE		NEW LON	
RETE SILL	TROWELED 5/8" RADIUS			
	COVE TRANSITION DECORATIVE QUARTZ EPOXY		CONCESSIO	
	FLOORING PER SPEC SECTION 09725		SCHED & DET	
	VAPOR CONTROL PRIMER			
	CONCRETE SLAB ON GRADE		oj No: 2010-9 te: 1/25/2013	
	Y FLOORING COVE DETAIL	Sc	ale: AS NOTED	A-1.2
2 3"=1'-0"			awn By: MTT necked By:	
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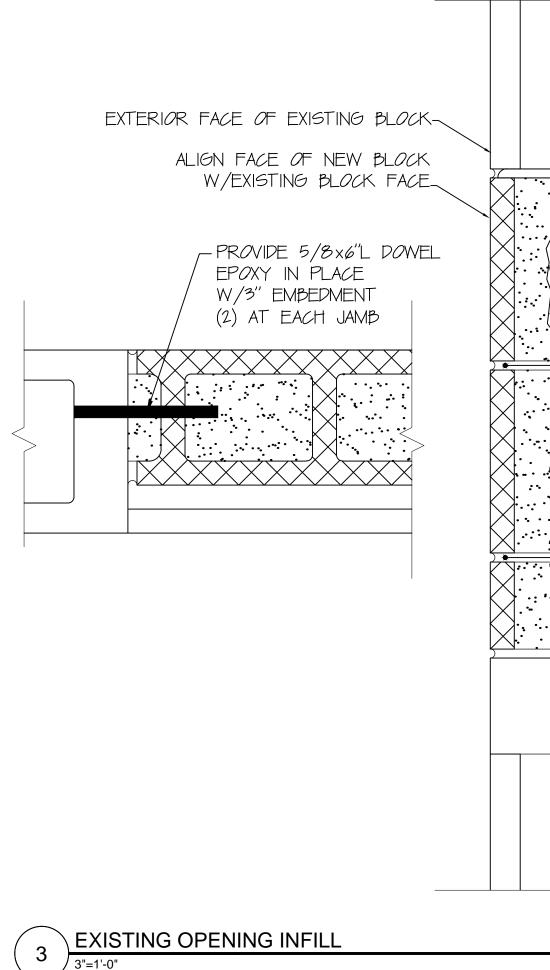




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NUMBER		SIZ			DR MAT'L			AL	ARDWARE L NEW DOO	7RS, FRAM	ES & HARDWARE SHALL	REMARKS	WRITTEN CONS	ENT OF T	
30 31	MEN'S TOILET ACCESSIBLE MEN'S TOILET	. ±3'-	-0"x±6'-6" VIF -0"x±7'-0" VIF	-3/4 -3/4	HM	HM-6-3/ HM-6-3/	4 D YES	5 &	SHALL BE H	RATED FO	"STORMPRO 320 & 321" R 120 MPH WINDS	ALUM SILL 1/2" H MAX. DOOR FRAME W/4" HEAD, ALUM SILL 1/2" H MAX.		REVISI	ONS
32 33	WOMEN'S TOILET ACCESSIBLE WOMEN'S TOIL	_ET ±3'-	$\frac{-\mathcal{O}'' \times \pm \mathcal{O}' - \mathcal{O}'' \forall IF}{-\mathcal{O}'' \times \pm 7 - \mathcal{O}'' \forall IF}$	-3/4 -3/4	HM	HM-6-3/ HM-6-3/	4 D YES	; DE	BRIS. PROV	IDE MANUF	FROM WIND-BORNE ACTURER TESTING DATA.	ALUM SILL 1/2" H MAX. DOOR FRAME W/4" HEAD, ALUM SILL 1/2" H MAX.	NO. DAT	E	DESCRIPTION
34	HWH ACCESS DOOR	8	5″×2′—4″	-3/4		HM-6-3/	4 V		KP ΠΙΝΘΕS,	& LUCKSE	ET, NO HANDLE ON INTERIOR	FULL DOOR FRAME AROUND PERIMETER OF DOOR			
- ALL - ALL - ALL - ALL - ALL - ALL - ALL	DOORS AND FRAMES TO BE PAINTED DOOR HARDWARE TO BE 626 BRUGH DOOR HINGES TO BE STAINLESS ST DOOR WALL STOPS TO BE ROCKWO DOORS TO HAVE PERIMETER GASKE DOORS TO HAVE THRESHOLD PEMKO DOOR FRAMES TO HAVE SILENCERS DOOR FRAMES TO HAVE SILENCERS DOOR FRAMES TO FIT INTO EXISTIN ERIFY ALL DIMENSION PRIOR TO PLA	IED CHROME TEEL W/NRF 200 406-321 175 PEMKO 2 - 2005AT 6 OPENING	9 - 588 -												
FIN	NSH SCHED		=												
											[
ROOM NUMBER	ROOM NAME	FL <i>00</i> R			₿ASE	WALLS	DOORS		FRAMES	CEILING	NOTES:				
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31 33	WOMEN'S TOILET ACCESSIBLE WOMEN'S TOILET		<u>_00R FINISH (EF</u> _00R FINISH (EF		EP-F-	EP-W-I		P-3		P-3					
													ARCHITECT		
			<i>D00</i> R P-1	<i>D00</i> R P-2	RAME	MASONR P-4	Y E	AVE	SOFFIT P-6						
	RIOR COLOR					F -4		·Ø	Γ <i>-φ</i>						hitecture
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NOTE: FINAL	5: COLORS TO SELECTED BY OW CONCRETE CURING COMPOUNDS	'NER &/ <i>O</i> R	R ARCHITECT												F 203.838.0662 (c) 2010
												EXISTING CMU WALL EXISTING OPENING LINTEL	one morgan ave	nue norv	valk connecticut 06851
			EXT	ERI <i>O</i> R	FACE 0	= EXISTI	NG BLO	CK-				GPLIT NEW TOP 6" CMU INFILL TO ALLOW FOR INSTALL OF HORZ. DOWEL			
				AL	IGN FAC W/EXIS							PLACE EXTERIOR BLOCK FACE IND DRY PACK TOP COURSE			
I								A /I=1			F	REINFORCING EACH COURSE			
				/		' IN PLA	ксЕ	VEL		$\circ \$		SRAUT LOWER COURSES SOLID			
						EMBEDN EACH						20/2/2 20/2/2/2010/2010/2010/2010/2010/2			
			Ρ		X	$\times \times$	XXX	x		X.R					
							× × × ×					NEW 6" CMU INFILL, MATCH EXISTING WALL COURSING			
	ION OF NEW CROSS							>							
BL <i>OC</i> MIN d	KING 24" <i>O.C.</i> 2NE BAY EACH SIDE													CITY	
MATC	EW BLOCK WALL H SIZE OF EXISTING NG JOISTS							-							
												E 5/8×6"L DOWEL IN PLACE			DDS PARK DING
	$4^{\prime\prime}$ O.C. W/ $4^{\prime\prime}$ EMBEDMENT										W/3" E	MBEDMENT			MENTS
EXISTING	CEILING JOISTS									····K	(2) AT		F	PHAS	SE II
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											E - E	EXISTING CMU WALL			
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			3) EXIST	ING O	PENING	INFILL	-						Scale: AS NO Drawn By:		A-3.1
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	C SCHEDUL Description	<u>E — REST</u>		///S dr. mat'l fr	R MAT'1 /	/THR 11 M	ER HARDWARE			REMARKS	PROJECT AT THIS SITE, USED, REUSED, REVISED WAY OR FOR ANY OTHE	OR CO R PURP
30	MEN'S TOILET		-3/4		V-6-3/4		ALL NEW D		ES & HARDWARE SHALL	ALUM SILL 1/2" H MAX.	WRITTEN CONSENT OF T	
31 32	ACCESSIBLE MEN'S TOILE WOMEN'S TOILET		-3/4 -3/4	HM HN	VI-6-3/4 VI-6-3/4 VI-6-3/4	4 D YES	& SHALL BE	RATED FOR	'STORMPRO 320 & 32 " ? 20 MPH WINDS "ROM WIND-BORNE	ALUM SILL 1/2 TI MAX. <i>DOO</i> R FRAME W/4" HEAD, ALUM SILL 1/2" H MAX. ALUM SILL 1/2" H MAX.	REVISIO	
33 34	ACCESSIBLE WOMEN'S TO HWH ACCESS DOOR		-3/4 -3/4	HM HN	VI-6-3/4 VI-6-3/4 VI-6-3/4	4 D YES	DEBRIS. PRO	VIDE MANUE	ACTURER TESTING DATA. T, NO HANDLE ON INTERIOR	DOOR FRAME W/4" HEAD, ALUM SILL 1/2" H MAX. FULL DOOR FRAME AROUND PERIMETER OF DOOR	NO. DATE	DES
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FINI	SH SCHE	DULE										
ROOM NUMPER		FLOOR		BASE W	/ALLS	DOORS	DOOR FRAMES	CEILING	NOTES:			
	N'S TOILET	EPOXY FLOOR FINISH (EF	· //				P-3 P-3	P-3 P-3			∃	
32 WC	ESGIBLE MEN'S TOILET MEN'S TOILET ESGIBLE WOMEN'S TOILET	EPOXY FLOOR FINISH (EF EPOXY FLOOR FINISH (EF EPOXY FLOOR FINISH (EF	'_F_) [EP-F-I EF	>_W- >_W- ?_W-	P-3	P-3 P-3 P-3	P-3 P-3 P-3			=	
			<u> </u>		•• 1						=	
					11000		— – – – – – – – – – –	_			ARCHITECT :	
EXTERIOR	COLOR	<i>P00</i> R P-I	<i>D00</i> R f P-2	FRAME N	1/ASONRY 4	Y EAV P-6						
											arc	h i
NOTES:												T F
BLOCKING MIN ONE OF NEW MATCH S CEILING	BAY EACH SIDE BLOCK WALL ZE OF EXISTING OISTS C. W/ 4" EMBEDMENT		ALIE V	ACE OF E	OF NE NG BLC 5/8x N PLAC MBEDMI	EW BL <i>OC</i> OCK FAC (6''L DOW CE			PROVID	SPLIT NEW TOP 6" CMU INFILL TO ALLOW FOR INSTALL OF HORZ. DOWEL PLACE EXTERIOR BLOCK FACE AND DRY PACK TOP COURSE REINFORCING EACH COURSE GROUT LOWER COURSES SOLID DOWELS AT JAMB NEW 6" CMU INFILL, MATCH EXISTING WALL COURSING PE 5/8×6"L DOWEL IN PLACE EMBEDMENT SILL	CITY NEW LO BATES WOO BUILD IMPROVE PHAS	DD DD DIN ME SE
6										EXISTING CONCRETE SILL EXISTING CMU WALL	NEW LONI RESTROOM DETA SCHED	BL
											Date: 1/25/2013	ļ

EXISTING CEILING JOISTS VERIFY SIZE IN FIELD \neg FSIMPSON HGAIO 24" O.C. FASTENED TO EXISTING CEILING JOIST OR NEW CROSS BLOCKING -NEW PVC T&G BE CEILING ON 🐉 GY -NEW PVC |x4 CEIL NEW PT TOP PLATE VERIFY THICKNESS ∽TYPICAL BOND BEAN W/(I) #5 AT TOP OF



ELECTRICAL SPECIFICATIONS

1.1 GENERAL:

Civil Engineers General Conditions are a part of this Division. All work shall be done in strict accordance with the latest applicable issue of the National Electrical Code, local Codes and utility company requirements. All equipment is to be UL approved. The Contractor shall bear the cost of all fees, permits, licenses and taxes. Utility company charges for the permanent electric service shall be included in the Contractor's Bid.

Submit six (6) copies of manufacturer's drawings of electrical devices to the Owner for approval. Submit information on any other equipment to be used when requested by the Owner or Engineer.

Submit shop drawings for all equipment and/or devices specified. Include in shop drawings manufacturer's names, catalog numbers, cuts, diagrams and other such descriptive data required to identify equipment. No consideration will be given to a partial shop drawing submittal, emails or electronic copies. Submitt equipment shop drawings by manufacturers supplying vendor, catalog reproductions shall not be acceptable.

1. Where multiple quantities or types of equipment are submitted, provide a cover sheet (with a list of contents) on submittal identifying equipment or material submitted.

2. Clearly indicate all specific options and/or alternatives. Failure to do so will be grounds for rejection. 3. Clearly mark all shop drawings with specific associated specification section.

The Contractor shall provide a guarantee covering all material and workmanship for one (1) year following the date of acceptance.

The Contractor shall examine the Drawings and Specifications of other trades to determine the extent of his work. He shall visit the site and familiarize himself with the project and local conditions before submitting his Bid as he shall be held responsible for any assumptions made thereof. The Drawings are diagrammatic and indicate the general arrangement of systems and work included in the Contract. If so directed by the Engineer, the Contractor shall, without extra charge, make reasonable modifications in the layout to prevent conflict with those of other trades and for proper installation of work. The Contractor shall coordinate locations of equipment with trades before starting construction. Any modifications to the equipment layout required for installation are to be performed at no additional cost to the Owner.

The Contractor shall arrange his work so that any power outage does not interfere with the Owner's operation.

1.2 SCOPE OF WORK:

The Contractor shall furnish and install a complete electrical system for the new facility which includes, but is not limited to: demolition, circuit breakers and feeders; all light fixtures as shown on the Drawings; time clock and relay, switches, receptacles, disconnect switches, conduit and branch wiring and all other items and equipment as shown on the Drawings or herein specified.

The Contractor shall be responsible for relocating or modifying existing equipment and wiring required for new construction.

The electrical system shall be complete in all respects, tested, approved and ready for the beneficial use of the Owner.

1.3 WORK BY OTHERS: Cutting and patching is specified under Division 1.

Excavation and backfill is specified under Division 2.

Access doors shall be provided where required, and are specified under Division 8.

Chases, openings and finish work is specified under the pertinent Divisions 3 through 14 sections

1.4 FIELD MEASUREMENTS:

The Contractor shall verify in the field all measurements necessary for his work. Conduits, switches, receptacles, panels and light fixtures which have not already been installed may be relocated up to ten (10') feet from locations shown on the Drawing when so directed by the Engineer, at no cost to the Owner. Verify all interior lighting fixture locations and mounting heights with the Architect before installation.

1.5 WIRING METHODS

Electrical Metallic Tubing (EMT) shall be used for feeders run above ground, all exposed branch circuit wiring, telephone wiring and security or fire alarm system wiring. EMT shall be used for all circuit homeruns.

Rigid galvanized steel conduit shall be used for all exterior exposed wiring and buried wiring except as noted below or as specifically noted on the Drawings.

except as specifically otherwise noted on the Drawings. All elbows shall be rigid galvanized steel conduit. Polyvinyl chloride (PVC) conduit may be used for underground power and telephone wiring

Wire #12 and smaller shall be solid conductor with THW, THWN or THHN insulation as required. Size #10 and larger shall be stranded conductor with Type THW insulation, unless otherwise indicated. Minimum size wire for light and power circuits shall be #12. All conductors shall be soft—annealed copper. Where practical and not otherwise stated, circuits on each of 3-phase legs may be combined with the neutral and run back to panel. The Contractor shall include a green ground conductor for all circuits; the use of the conduit system or cable covering as the sole means of grounding will not be permitted.

1.6 DISCONNECT SWITCHES:

An unfused disconnect switch shall be furnished and installed for all equipment. A fused disconnect switch shall be furnished and installed for equipment located ahead of all magnetic motor starters.

Safety switches shall be heavy—duty Type in NEMA enclosures suitable for the environment in which they shall be installed. Switches shall be rated for 600 VAC as manufactured by General Electric, Square D or Westinghouse and equivalent to the following General Electric types: Fused disconnect 2– and 3–pole – Type TH

Non-fused disconnect switches - Type THN

Fused or non-fused, rain-tight (WP) disconnect switches in NEMA 3R enclosures - Type TH and/or Type THN

1.7 FUSES:

All fuses shall be UL listed, non-renewable type as manufactured by Bussman or acceptable equivalent. Fuses rated at 1/10 Ampere and up to 600 Amperes shall be equivalent to Bussman Type LPN-RK (250 Volt) UL Class RK1, low peak, dual-element, time delay fuses. Fuses shall have separate short circuit and overload elements and have an interrupting rating of 200,000 Amperes.

All fuses shall be installed so that the size is readily visible.

The Contractor shall furnish to the Owner six (6) spare fuses for each size of fuse. 1.8 POWER, MOTOR AND EQUIPMENT WIRING:

The Contractor shall furnish and install all wiring for all motors and equipment which will be furnished and set in place by work of other sections on this project.

Conduit connections to motor frames shall have minimum of 18 inches of flexible steel sealtite conduit to reduce vibrations and noise being transferred to other parts of the buildinas.

1.9 SWITCHES, RECEPTACLES AND ACCESSORIES:

Wall switches shall be mounted 48 inches above finished floor, opposite hinged side of door, unless otherwise indicated. Where there is more than one (1) switch in one (1) location, switches shall be ganged under one (1) cover. Duplex receptacles shall be mounted 18" AFF unless otherwise indicated. All wall switches and receptacles shall be flush—mounted, where applicable, and furnished with stainless steel cover plates or other type plate as requested by Owner.

Outlet and switch boxes shall be zinc-coated steel. Use plaster covers for boxes installed in sheet rock walls. Use box extensions as necessary.

Switches and receptacles shall be as manufactured by Arrow Hart, Leviton, Pass and Seymour or Hubbell and equivalent to the following Specification grades: Single-pole switches shall be Hubbell #1221

Duplex grounding type receptacles shall be 20 Ampere Hubbell #5362 Weatherproof outlet shall be Hubbell #GF-5362, mounted in a Crouse-Hinds "FS" backbox complete with "WLRD" coverplate or acceptable equivalent. Ground fault type receptacles shall be Hubbell #GF-5362 feed-through receptacles

1.10 WALL PLATES:

All wall plates for switches and receptacles located where wiring is concealed shall have a stainless steel finish and be equivalent to Mulberry Metal #97000 Series. Plates installed on exposed conduit boxes shall be galvanized and have rounded edges. Ganged switches

shall be provided with one-piece gang plates. 1.11 OUTLET AND JUNCTION BOXES: Outlet boxes for light fixtures in concrete walls or slabs shall be 4-inch octagonal mud boxes not less than 2-1/2-inches deep. Include fixture studs where required. Switch and receptacle outlet boxes in masonry walls and partitions where wiring is concealed shall be standard 4-inches square, 1-1/2 inches-deep, galvanized, with extension cover for the particular device they will receive. Use plaster extensions not less than 1/2-inch deep for boxes installed in plastered walls or cast in concrete. Use 1-1/2-inch deep square corner tile wall extension for boxes installed in tile, exposed brick or exposed block masonry walls.

All boxes shall be securely fastened to the building structure. Suitable means shall be provided to support the outlet box to take the weight of the fixture. Recessed outlet boxes or their extension covers shall be set flush with face of finished wall, but in no case set greater then 1/4 inch behind finished face of wall. Receptacle boxes shall be approximately 18 inches on center above the finished floor, unless otherwise noted. Switch outlets shall be located 48 inches above finished floor, unless otherwise noted. The Contractor shall check with the Architectural Drawings for possible interference.

Junction and outlet boxes where exposed to the weather and wet locations shall be threaded hub type and provided with watertight screw—on covers and gaskets. Floor outlets shall be adjustable type and waterproof where required.

1.12 LIGHTING FIXTURES:

The Contractor shall furnish and install all lighting equipment as shown and specified complete with lamps ready for operation. Provide all required supports, hangers and seismic bracing for fixtures, including recessed troffers.

All lamps shall be as manufactured by General Electric or Sylvania. All lamps for new and existing relocated fixtures shall be new and be furnished and installed by the Contractor. 1.13 WARNING TAPE: Color-coded warning ribbon composed of a solid, aluminum foil core encased in a protective plastic jacket shall be placed above all buried electrical and communication utility lines. All tapes shall be highly visible, color—coded and imprinted with the appropriate warning legend. The tape width shall vary from a two (2") inch wide tape buried ten (10") inches below the surface to an 18—inch wide tape buried 50 inches below the surface.

Standard legends shall be marked continuously along the entire length of the tape. A red safety tape imprinted with "CAUTION - ELECTRIC LINE BURIED BELOW" shall be used for all buried primary and secondary electric services. Orange safety tapes shall be imprinted with "CAUTION - TELEPHONE LINE BURIED BELOW" or "CAUTION - TELEVISION CABLE BURIED BELOW".

Warning tapes shall be as manufactured by Allen Systems, Houston, Texas or acceptable

equivalent.

1.14 SYSTEMS OPERATIONAL MANUALS: Upon completion of the work and at a time designated by the Engineer, the Contractor shall furnish instruction manuals, data, warranties, etc., and instruct the Owner or his representative as to the arrangement, location and operation of all equipment and systems furnished and installed under the Contract.

Contractor shall provide as-built documents to the Owner at the completion of the project 1.15 LOAD BALANCE:

The Contractor shall balance the loads on the three phases in the electrical switchgear and panelboards insofar as physically possible, and report each panel loading to the Engineer.

1.16 DEMOLITION: Disconnect, remove, and properly dispose of all electrical work not being reused as part of this project. All conductors made obsolete by this project shall be removed back to their source of supply. All abandoned conduits shall be capped. The existing electrical services in the building must remain in operation during the renovation process. The Contractor shall maintain continuity of circuits for existing

electrical items which remain.

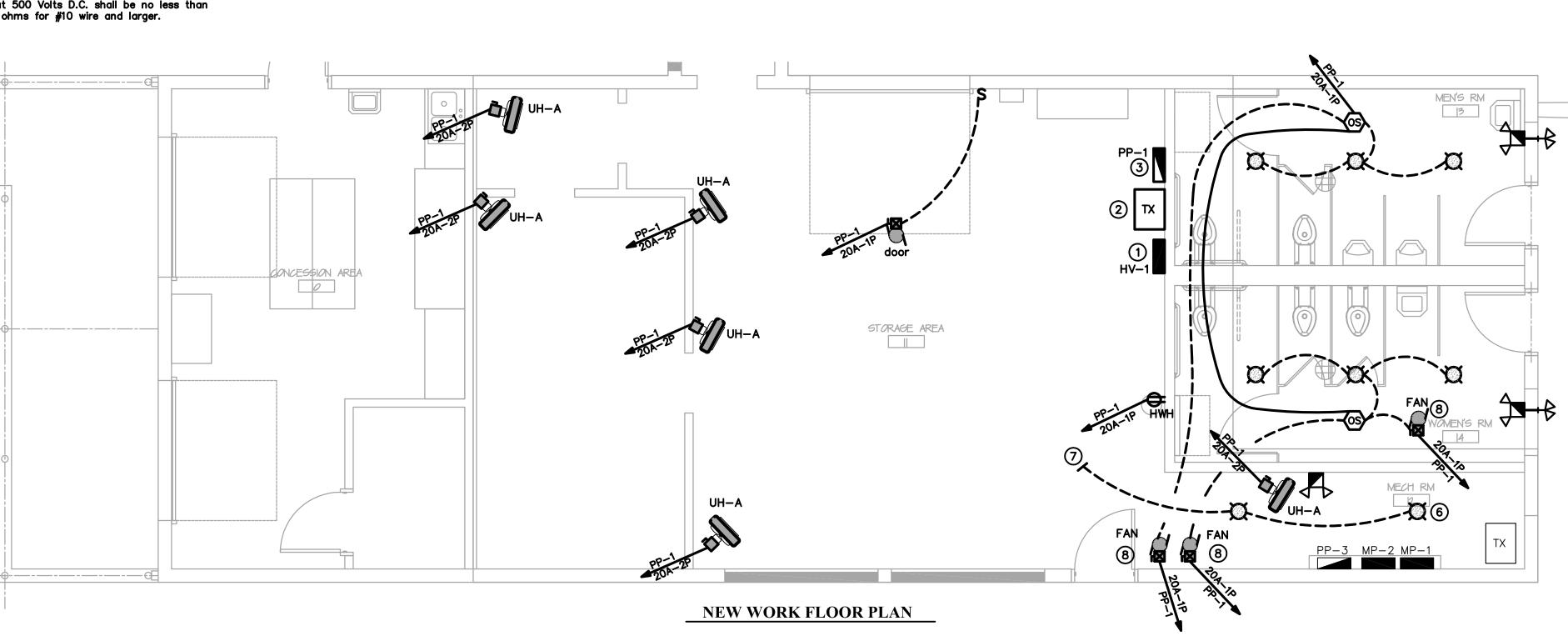
1.17 SHOP DRAWINGS: The following list of electrical items must be submitted by this Contractor for approval: Circuit breakers

Conduit and wire with fittings and connectors Safety switches Light switches, receptacles and plates (submit samples as requested) Time clocks Photocells All lighting fixtures (submit samples as requested) 1.18 GENERAL WIRING TESTS: At the time of final inspection and test, all wiring and connections throughout the

Contactors and relays

expansion areas must be completed, devices and equipment properly operating, all lighting fixtures installed, and power and lighting circuit and control wiring clearly identified with approved tags ready for acceptance. Each system shall test free from short circuits and from grounds.

Insulation resistance for low voltage cables and wiring shall be performed at 1000 Volt D.C. for one-half (1/2) minute. When insulation resistance must be determined, all switchboards, panelboards, fuse holders, switches, and overcurrent devices shall be in place, and the insulation resistance when tested at 500 Volts D.C. shall be no less than 100,000 ohms for #14 and #12 wire and 250,000 ohms for #10 wire and larger.



MOTOR WITH COMBINATION HEAVY DUTY DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. PP-1 HOMERUN, TOP NUMBER INDICATES PANEL, BOTTOM NUMBER INDICATES BREAKER SIZE. 20A-1P WIRE IS 2#12 & 1#12 GND IN 1"C UNLESS NOTED OTHERWISE. DUPLEX 20A SPECIFICATION GRADE RECEPTACLE Φ SUBLETTER GFI INDICATES GROUND FAULT INTERRUPTER. SUBLETTER WP INDICATES WATERPROOF, SUBLETTER "a" INDICATES 42" AFF S 20A SPECIFICATION GRADE SWITCH WITH KENALL WSP-6-IVY WALLPLATE 120/208V PANELBOARD · · · · · · 277/480V PANELBOARD

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ELECTRICAL SYMBOL LIST

TEMPERATURE BALLAST. KENALL # MR17FL-PP-MB-32P-2-120

VANDAL RESISTANT COLD TEMPERATURE EXIT SIGN

AND WIRE CAGE. CAGE IS LEVITON ODCCG-OOW

KENALL # XMLA-1-W-R-120-EL-CW

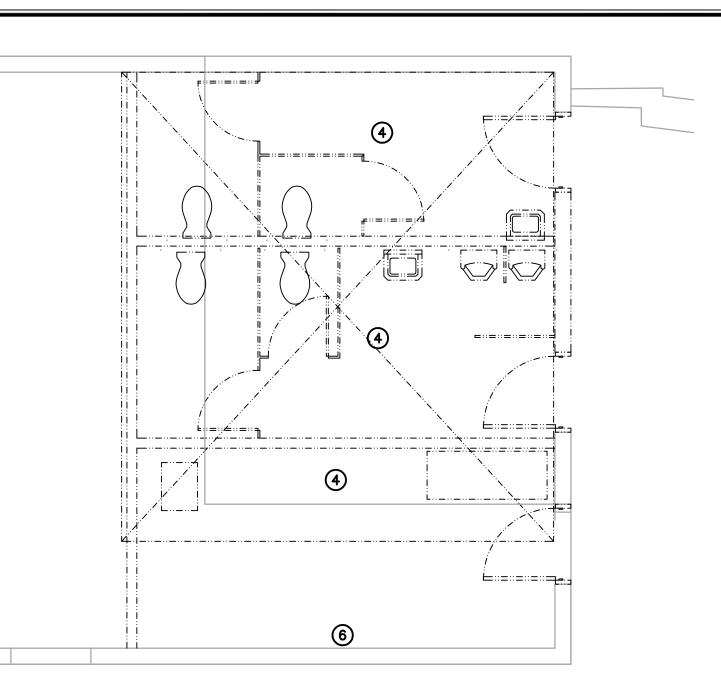
SURFACE MOUNTED COMPACT FLUORESCENT VANDAL RESISTANT FIXTURE WITH COLD

CEILING MOUNTED OCCUPANCE SENSOR WITH REMOTE POWER PACK. AUX CONTACT

KENALL # METELHC-48N-MW-2-4.5L-120-CEL & METER-MW-2-4.5L-12

VANDAL RESISTANT COLD TEMPERATURE EMERGENCY LIGHTING UNIT W/ REMOTE HEADS

HEAVY DUTY FUSED DISCONNECT SWITCH



DEMOLITION FLOOR PLAN

DRAWING KEY NOTES:

(5) -----

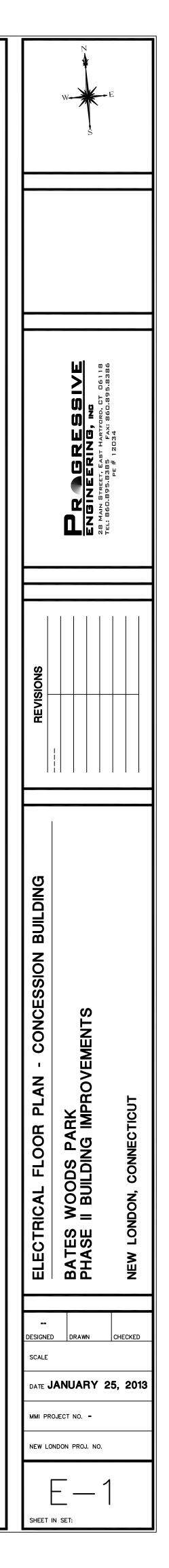
(1) NEW PANEL HV-1. 277/480V, 3PH-4W, 100A, MCB, 25KAIC, 30-SPACE WITH (1) 45A-3P, (3) 20A-2P AND (3) 20A-1P CIRCUIT BREAKERS. CIRCUIT BREAKERS ARE TO BE SWITCH DUTY RATED. FEED FROM NEW 100A-3P BREAKER IN PANEL MP-1 WITH 4#3 & 1#8 GND IN 1-1/4"C.

2 30kVA 480V-120/208V DRY TYPE TRANSFORMER. FEED FROM 45A-3P BREAKER IN HV-1 WITH 3#8 & 1#10 GND IN 3/4"C.

(3) NEW PANEL PP-1. 120/208V, 3PH-4W, 100A, MCB, 10KAIC, 42-SPACE WITH (1) 40A-3P, (9) 20A-2P AND (21) 20A-1P CIRCUIT BREAKERS. CIRCUIT BREAKERS ARE TO BE SWITCH DUTY RATED. FEED FROM TRANSFORMER WITH 4#3 AND 1#8 GND IN 1-1/4"C.

4 REMOVE ENTIRE EXISTING ELECTRICAL INSTALLATION WITHIN THE AREA BEING RENOVATED AND PROVIDE NEW INSTALLATION AS INDICATED.

(6) EXISTING ELECTRICAL PANELS AND TRANSFORMER TO REMAIN. (7) CONNECT TO EXISTING LIGHTING SWITCH CIRCUIT IN GARAGE. (8) CEILING MOUNTED FAN WITH COMBINATION MAGNETIC STARTER CONNECTED TO ROOM OCCUPANCY SENSOR FOR ON/OFF CONTROL.

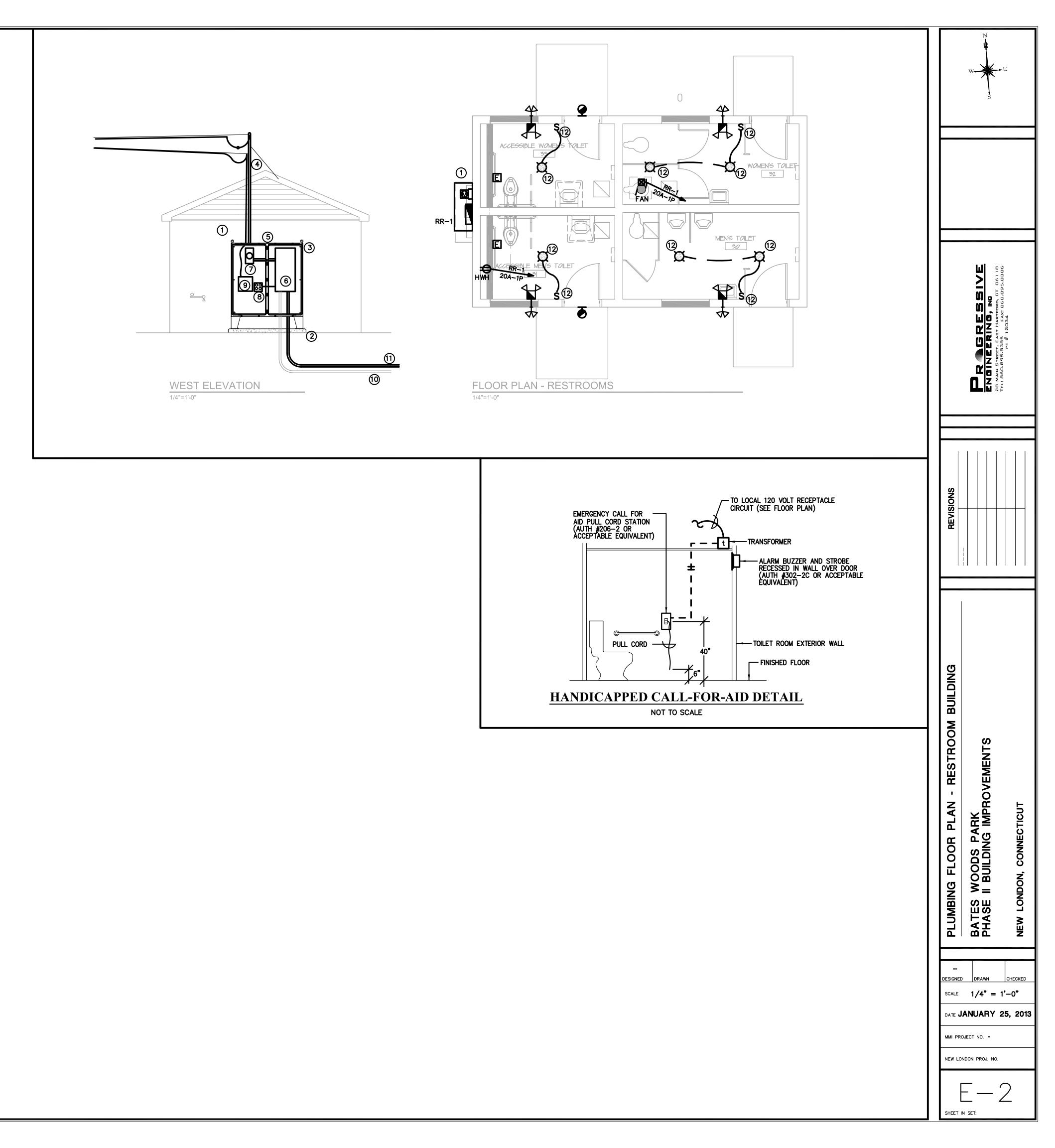


DRAWING KEY NOTES:

- 1 REMOVE EXISTING OVERHEAD SERVICE DROP, SERVICE MAST, METER AND SOCKET, MAIN CIRCUIT BREAKER AND CIRCUIT BREAKER PANEL AND REPLACE WITH NEW.
- (2) 26"X78"X6" REINFORCED CONCRETE PAD
- (3) 74"X72"X24" NEMA-4X STAINLESS STEEL ELECTRICAL ENCLOSURE TO HOUSE NEW UTITLITY METER AND CIRCUIT BREAKER PANEL. ENCLOSURE IS HOFFMAN A-74H7224SSLP WITH FACTORY CUSTOM STAINLESS STEEL 45 DEGREE ANGLED TOP, STAINLESS STEEL DRIP KIT A-DK72SS6 AND STAINLESS STEEL PANEL INSERT A-72P72, DRIP KIT AND PANEL INSERT ARE CUSTOM. ENCLOSURE TO BE BOLTED TO NEW PAD AND TO EXISTING CONCRETE BLOCK WALL.
- 4 2" RIGID GALVANIZED STEEL SERVICE MAST 10' TALL WITH WEATHER HEAD AND GUY WIRE AS SHOWN. REWORK EXISTING ELECTRICAL AND TELEPHONE SERVICE DROPS SUCH THAT WIRES DO NOT DROP TO LESS THAN 15' ABOVE FINISHED GRADE ALONG ENTIRE LENGTH OF WIRE. PROVIDE SEPERATE 1" RIGID CONDUIT AND WEATHER HEAD FOR TELEPHONE SERVICE.
- 5 TELEPHONE DEMARK, 200A 120/240V ELECTICAL METER & SOCKET AND 200A PANELBOARD LOCATED WITHIN INTERIOR OF NEW ELECTRICAL ENCLOSURE.
- \bigcirc PANELBOARD RR-1 IS SERVICE ENTRANCE RATED 120/240V, 1PH-3W, 200A, MCB, 24-SPACE, 10K AIC WITH (2) 100A-2P AND (8) 20A-1P CIRCUIT BREAKERS. CIRCUIT BREAKERS ARE TO BE SWITCH DUTY RATED. RR-1 FEEDER IS 3#3/0 COPPER IN 2" CONDUIT. PROVIDE NEW SERVICE ENTRANCE GROUNDING PER NEC.
- \bigcirc 200A meter socket per utility company standards.
- 8 GFI DOUBLE DUPLEX RECEPTACLE. FEED FROM 20A-1P BREAKER IN RR-1.
- (9) TELEPHONE DEMARK.
- 10 REWORK EXISTING CONDUIT AND 100A CIRCUIT TO NEW PANEL AND ENCLOSURE. ALL CONDUIT EXPOSED ABOVE GRADE TO BE RIGID GALVANIZED STEEL.
- 1 NEW FEEDER CONDUIT TO STORAGE BUILDING. ALL CONDUIT EXPOSED ABOVE GRADE TO BE RIGID GALVALNIZED STEEL.

(12) REMOVE AND REPLACE EXISTING FIXTURE OR SWITCH WITH NEW





GENERAL DEMOLITION NOTES:

1. NOTES AND GRAPHIC REPRESENTATIONS DO NOT LIMIT EXTENT OF DEMOLITION.

2. VERIFY AND LABEL SUPPY AND RETURN OIL LINES BEFORE DEMOLITION.

3. REMOVE AL EXISTING TEMPERATURE CONTROL PANELS, WRING, CONTROL TUBING, PANELS AND AIR COMPRESSOR, ETC..

4. DISCONNECT EQUIPMENT AND DEVICES PRIOR TO ANY DEMOLITION WORK. REMOVE DEMOLISHED EQUIPMENT FROM SITE AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.

5. VISIT SITE AND EXAMINE CONDITIONS. BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES AFFECTING EXECUTION OF WORK PRIOR TO SUBMISSION OF PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE AN EXAMINATION HAS OCCURRED. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED FOR ENCOUNTERED DIFFICULTIES WILL NOT BE RECOGNIZED BECAUSE CONDITIONS WERE PRESENT DURING SITE EXAMINATION.

6. EXTENT OF DEMOLITION WORK INCLUDES, BUT NOT LIMITED TO, MECHANICAL WORK ASSOCIATED WITH REMOVAL OF BOILERS, PUMPS, EXPANSION TANK, AND PIPING IN BOILER ROOM AS INDICATED. DEMOLITION ALSO INCLUDES COMPLETE REMOVAL ATC SYSTEM AND ALL COMPONENTS UNLESS OTHERWISE NOTED.

7. OWNER MAINTAINS RIGHT TO RETAIN REMOVED EQUIPMENT IF IDENTIFIED TO CONTRACTOR BEFORE DISPOSAL. ONCE EQUIPMENT IS RETAINED, MOVE TO MUTUALLY ACCEPTABLE LOCATION.

GENERAL NOTES:

1. COORDINATE ALL SHUTDOWNS WILL OWNER TWO WEEKS IN ADVANCE OF WORK. CONTRACTORS ARE NOT TO EFFECT NORMAL HOURS OF OPERATION.

2. GENERAL DRAWING NOTES APPLY TO ALL MECHANICAL DRAWINGS.

3. FIELD VERIFY EXACT LOCATIONS OF EXISTING PIPING, STRUCTURAL AND ELECTRICAL ITEMS FOR COORDINATION OF NEW EQUIPMENT AND WORK.

4. DUCTWORK DIMENSIONS INDICATED ON PLANS ARE CLEAR INSIDE DIMENSIONS. PROVIDE TURNING VANES IN MITERED FITTINGS.

5. COORDINATE DUCTWORK ROUTING WITH ALL TRADES. PROVIDE OFFSETS AND FITTINGS AS REQUIRED FOR INSTALLATION. CONTRACTOR SHALL BEAR COSTS ASSOCIATED WITH ROUTING MODIFICATIONS.

6. PROVIDE DUCTWORK TRANSITIONS FOR FANS. PROVIDE FLEXIBLE DUCTWORK CONNECTORS ON INLET AND OUTLET OF NEW FANS.

7. BRACE AND SUPPORT DUCTWORK AND EQUIPMENT.

8. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S INSTALLATION DRAWINGS. PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.

9. PROVIDE ALL SERVICE/ACCESS CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE PRIOR TO INSTALLATION OF EQUIPMENT, PIPING, AND DUCTWORK.

10. BALANCE NEW AIR SYSTEMS TO QUANTITIES INDICATED. BALANCE DIFFUSERS AND FANS.

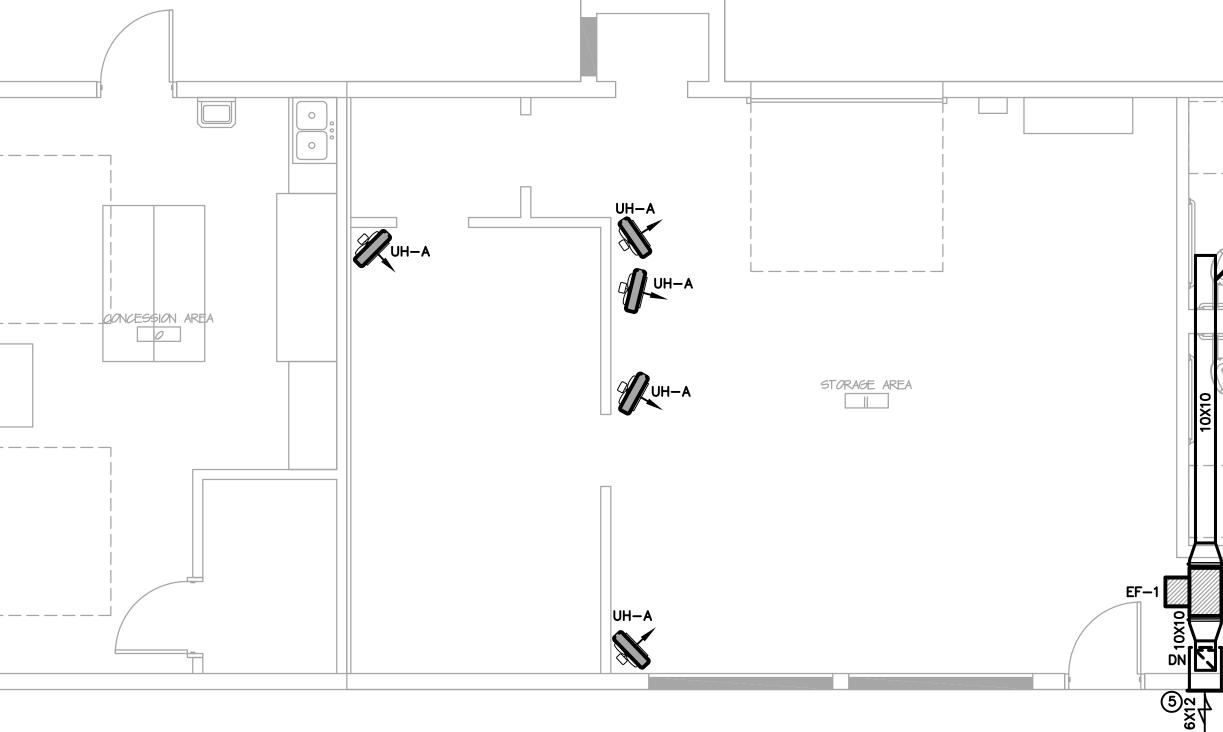
11. CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES IN CONNECTION WITH THE INDICATED WORK.

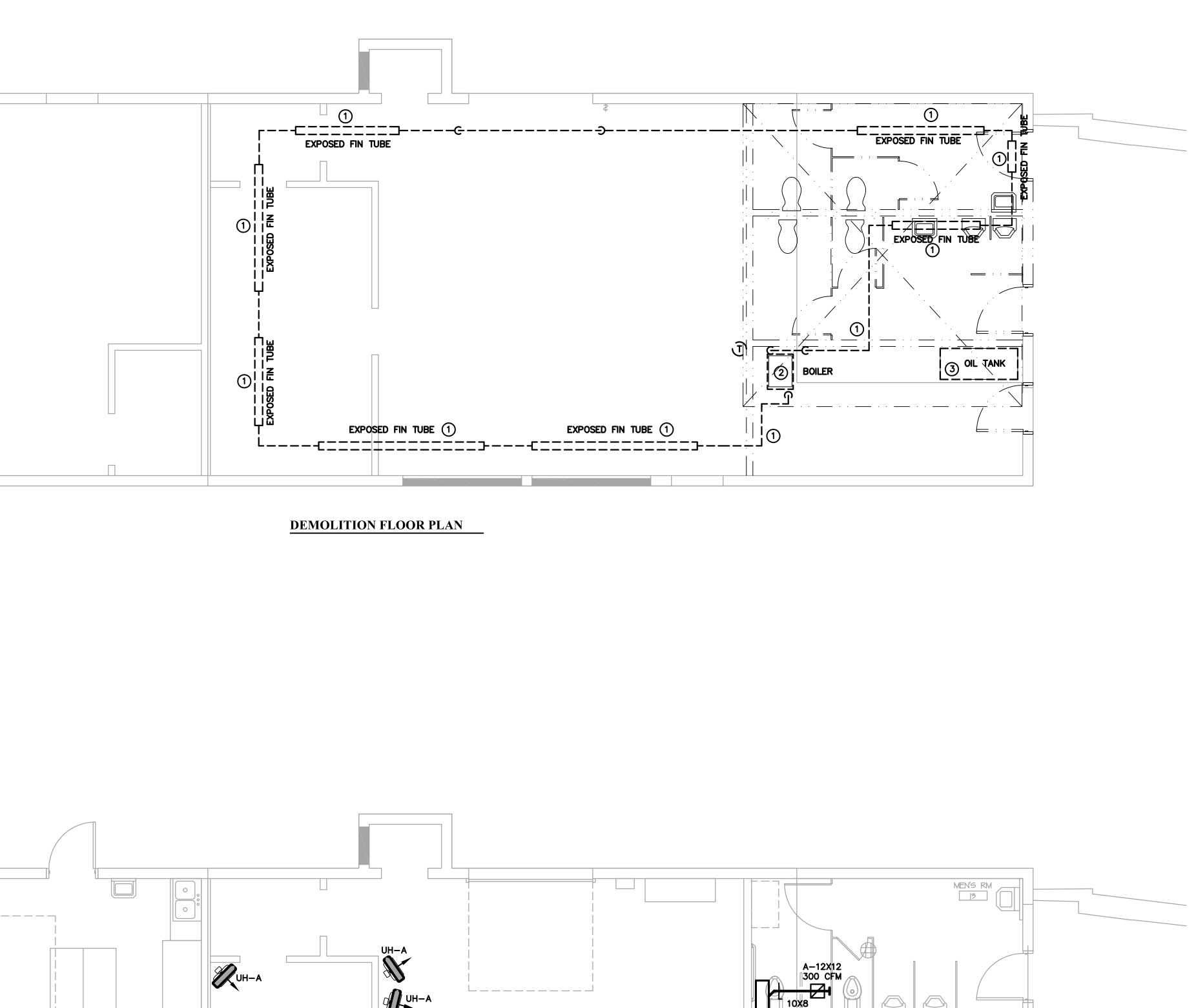
DRAWING KEY NOTES:

1 REMOVE PIPING AND RADIATION AS INDICATED.

- (2) REMOVE BOILER AND ASSOCIATED PIPING, CONTROLS AND ELECTRICAL.
- 3 REMOVE EXISTING OIL TANK AND ALL ASSOCIATED PIPING.
- (4) REMOVE EXISTING OIL TANK AND ALL ASSOCIATED PIPING.
- 5 PROVIDE EXTERIOR VANDEL PROOF WALL LOUVER AS MANUFACTURED BY GREENHECK MODEL ESD-635D WITH BIRSCREEN SCREEN.







10X8

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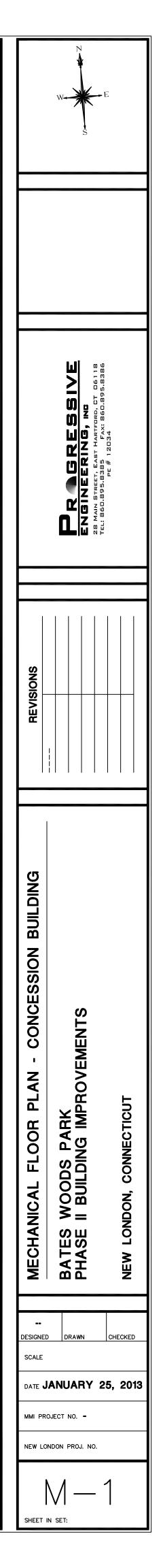
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A-12X12 225 CFM

WOMEN'S RM

MECH RM

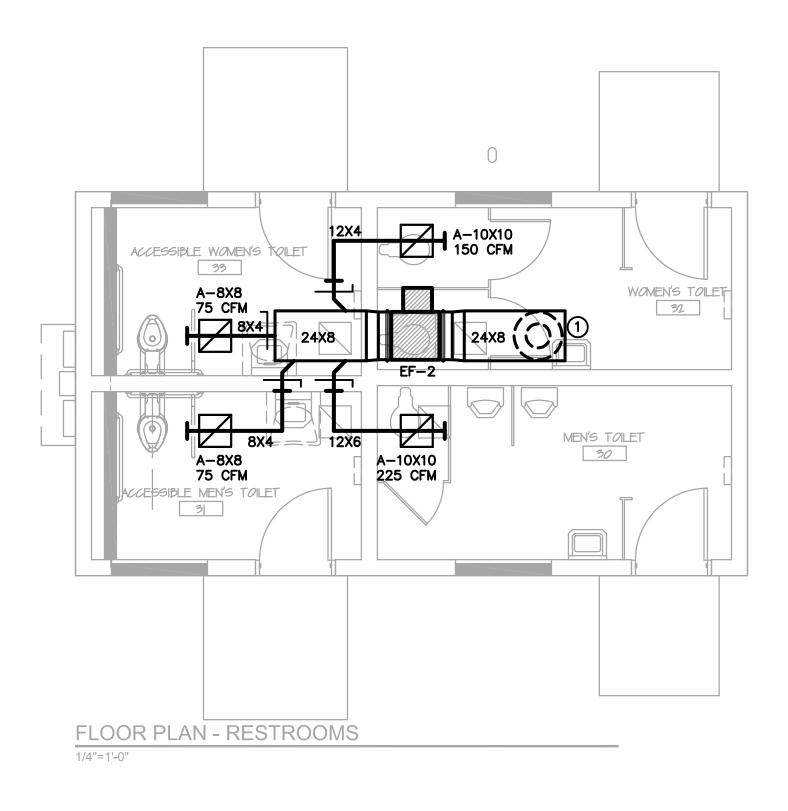
PP-3 MP-2 MP-1



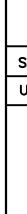
wing: P:\2012\12115\DRAWINGS\M\12115_M-2.DWG Layout Tab:MO ted by: BBO On this date: Fri, 2013 January 25 — 8:11am

DRAWING KEY NOTES:

(1) ROOF DISCHARGE, MODEL GRS-12 MANUFACTURED BY GREENHECK. PROVIDE ALL ALUMINUM CONSTRUCTION, BIRD SCREEN AND CURB CAP.



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	ENGINEERING, NC ZB MAIN STREET, EAST HARTFORD, CT D6118 TEL: 860.895.8385 FAX: 860.895.8386 FAX: 860.895.8386	PE # 12034
REVISIONS		
MECHANICAL FLOOR PLAN - RESTROOM BUILDING	BATES WOODS PARK PHASE II BUILDING IMPROVEMENTS	NEW LONDON, CONNECTICUT
SCALE	DRAWN 1/4" = 1 ANUARY 2	' -0 "
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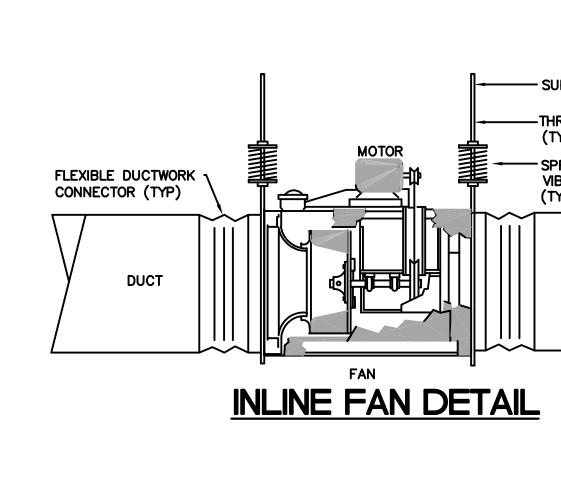


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(IN.	W.G.)	YPE DRIVE	FAN RPM 1725		HP (WATTS) WIT 1/6 LIGH	H VOLTS	ELECTRICAL PHASE 1	- HZ 60	ACCESSORIES ALL			5.83 80
EF-2 BSQ SQ-85-VG RESTROOM 225 0 NOTES: 1. SELECTIONS BASED ON GREENHECK OR APPROVED EQUIVALEN		NLINE DIRECT	1725	0.08	1/6 LIGH	ACCESSORI 1. STARTE 2. GRAVIT 3. ECM M 4. INSULA 5. MOTOR 6. INLET	ER & WRED Y DAMPER. OTOR. NED HOUSIN	IG. FLANGES			ENGINEERING, INC. 28 MAIN STREET, EAST HARTFORD, GT D6118	385 FAX: ∍∈#12034
		TAG MOD A 530 NOTES: 1. SELECTIONS 2. SEE PLANS 3. THROW PAT 4. COORDINATE ACCESSORIES: 1. SQUARE TO 2. ALUMINUM C	EL RET BASED O FOR NECI TERNS 4- E MOUNTIN ROUND T	DESCRIP FURN/EXHAUS IN PRICE OR K SIZES. -WAY UNLESS NG TYPE WIT RANSITIONS.	ST GRILLE EQUIVALENT I S OTHERWISE H ARCHITECTU	TYPE CEILING /WALL A MANUFACTUR	COLOR BY RCHITECT	MATERIA	L ACCESSORIES	REVISIONS		
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NEW LONDON PROJ. NO.

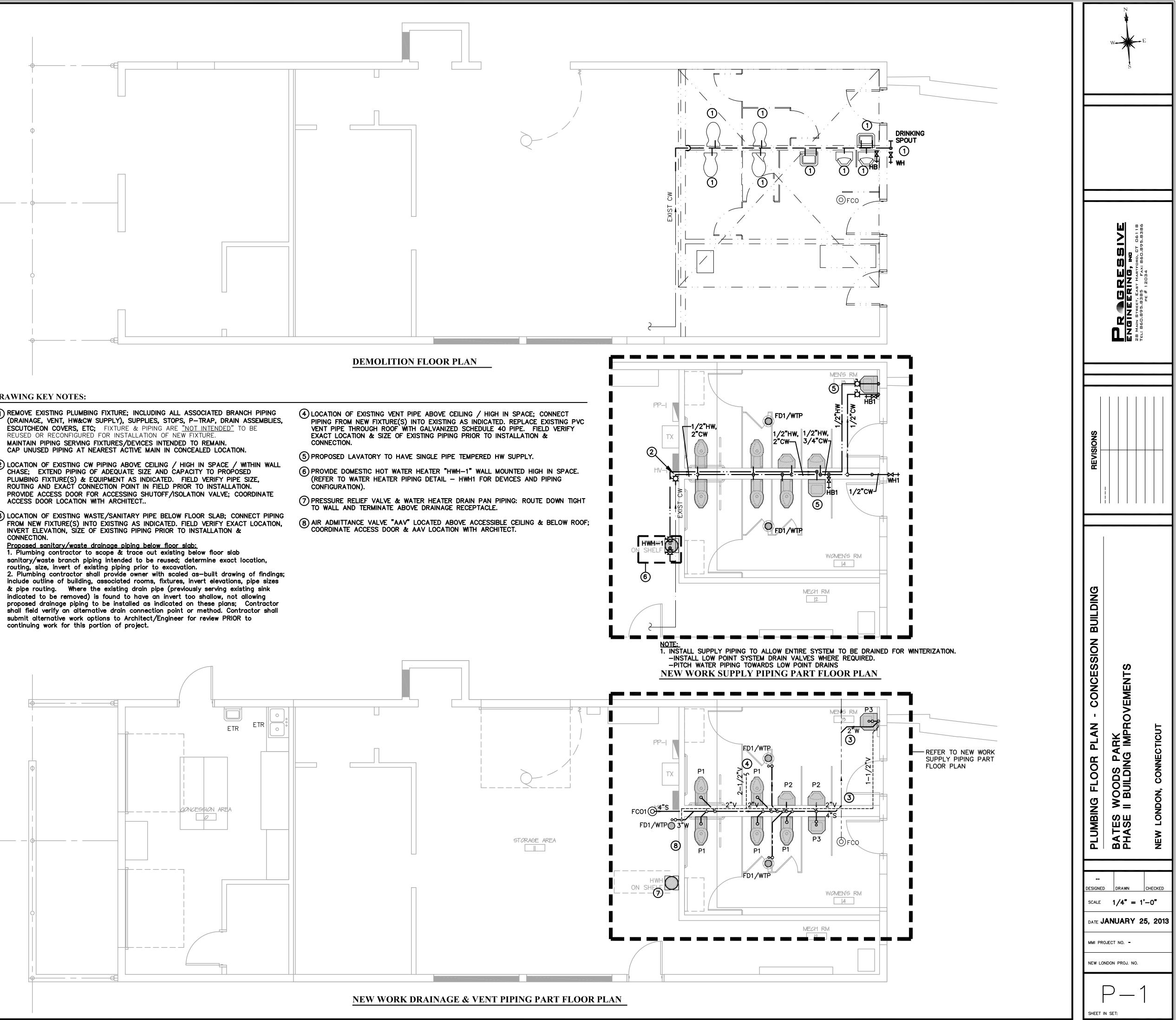
SHEET IN SET:

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GEN	ERAL PLUMBING NOTES:	
1.	BUILDING PLUMBING SYSTEMS TO BE PER INTERNATIONAL PLUMBING CODE (2003 EDITION).	
2.	REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA COMPLIANT FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.	
3.	DOMESTIC CW&HW BRANCH SUPPLY PIPING SHALL BE 1/2" UNLESS OTHERWISE INDICATED. HW&CW BRANCH PIPING TO EACH INDIVIDUAL FIXTURE TO BE SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.	
4.	VENT PIPING SHALL BE $1-1/2$ " UNLESS OTHERWISE INDICATED.	
5.	VENT PIPES CONNECTING TO A HORIZONTAL DRAIN SHALL BE CONNECTED ABOVE CENTER LINE OF THE HORIZONTAL DRAIN PIPE; SUCH VENT CONNECTIONS SHALL RESULT IN VENT PIPING THAT FORMS A 45 DEGREE ANGLE OR GREATER WITH THE HORIZONTAL.	φ Ι
6.	BURIED DRAINAGE PIPING SHALL BE 3" UNLESS OTHERWISE INDICATED.	
7.	FLOOR DRAINS, FLOOR SINKS, FLOOR CLEANOUTS, ETC. TO HAVE SAME SIZE OUTLET AS DRAINAGE PIPE SERVING.	
NI I I		
PLU.	MBING SPECIFICATIONS:	
1.	WASTE, SANITARY AND VENT PIPING BELOW GRADE SHALL BE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS MAY BE SUBSTITUTED FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING. PVC ALTERNATE PRICING MUST BE APPROVED FOR USE BY OWNER IN WRITING.	0
2.	WASTE, SANITARY AND VENT PIPING MAINS, ABOVE GRADE; SHALL BE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING. PREP, PRIME & PAINT EXPOSED PIPING COVERS W/ TWO COATS OF PAINT. COLOR BY ARCHITECT.	
3.	WATER PIPE ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SWEAT FITTINGS USING LEAD—FREE SOLDER. VALVES SHALL BE BALL TYPE WITH SCREWED ENDS BY APOLLO #70—100, OR WATTS #B—6000 OR EQUIVALENT. PREP, PRIME & PAINT EXPOSED PIPING / INSULATION COVERS W/ TWO COATS OF PAINT. COLOR BY ARCHITECT.	
4.	PROVIDE HANGERS AND SUPPORTS FOR ALL PIPING SYSTEMS INCLUDING SUPPORT DEVICES PER NFPA 54 & MSS-SP-69. PROVIDE HANGERS AND SUPPORTS SUITABLE FOR SERVICE AND SELECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED MAXIMUM LOADING. SUPPORT FROM BUILDING STRUCTURE. HANGER AND SUPPORT SPACING SHALL BE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS.	DRAWING KEY NOTES:
5.	PROVIDE FIBERGLASS INSULATION W/ ALL SERVICE JACKET & LABELING-INCLUDE FLOW ARROWS ON ALL CW & HW PIPES WITHIN PROJECT AREA, INSULATION THICKNESS PER MOST CURRENT ENERGY CODE, IDENTIFY PIPING IN COMPLIANCE WITH ASME A13.	(1) REMOVE EXISTING PLUMBING FIX (DRAINAGE, VENT, HW&CW SUPF ESCUTCHEON COVERS, ETC; FI REUSED OR RECONFIGURED FOR MAINTAIN PIPING SERVING FIXTU CAP UNUSED PIPING AT NEARES
6.	AIR ADMITTANCE VALVE "AAV": 4" MAXI-VENT MANUFACTURED BY STUDOR INVENTIVE TECHNOLOGIES.	(2) LOCATION OF EXISTING CW PIPI
7.	PROVIDE VALVES TAGS FOR ISOLATION VALVES & NAME PLATES FOR EQUIPMENT, ETC. WITHIN PROJECT AREA, IDENTIFY VALVES & EQUIPMENT IN COMPLIANCE WITH ASME A13.	CHASE; EXTEND PIPING OF AD PLUMBING FIXTURE(S) & EQUIPA ROUTING AND EXACT CONNECTION PROVIDE ACCESS DOOR FOR AC

- PIPING SHALL BE IDENTIFIED AT LEAST EVERY 20 FT. WITH NAME AND FLOW 8. DIRECTION WITH SNAP-ON PLASTIC PIPE MARKERS. ALL EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED PLASTIC MARKERS, CHAIN TO VALVE AND PROVIDE IDENTIFICATION WALL CHART.
- PROVIDE WATER HAMMER ARRESTING AIR CHAMBERS EQUAL TO "PPP", INC. OR ACCEPTABLE EQUIVALENT ON HOT AND COLD WATER PIPING PER PDI-WH 201, AT FIXTURES WHERE QUICK-CLOSING VALVES ARE USED OR AS INDICATED ON PLANS.
- PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURE AND EQUIPMENT 10. LOCATIONS.
- PROVIDE DIELECTRIC COUPLING BETWEEN PIPING OF DIS-SIMILAR MATERIALS. 11.
- PROVIDE AIR VENTS AT HIGH POINTS OF WATER PIPING. 12.
- 13. INSTALL & LOCATE BELOW GRADE DOMESTIC WATER PIPING TO PREVENT FREEZING PER CODE AND PER UTILITY COMPANY REQUIREMENTS.
- ROUTE ALL DOMESTIC WATER PIPING WITHIN HEATED AREAS. DO NOT INSTALL 14. DOMESTIC WATER PIPING IN NON-HEATED AREAS OR IN AREAS SUBJECT TO FREEZING.
- SEAL PIPE PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS OR FLOORS WITH A UL APPROVED FIRE-STOP FITTING CLASSIFIED FOR AN HOURLY RATE 15. EQUAL TO THE RATING CONSTRUCTION. INSULATING MATERIALS SHALL BE COMPATIBLE WITH PIPING SYSTEM BEING INSTALLED. FIRE CAULK TO HAVE FIRE RATING EQUIVALENT OR BETTER THAN WALL FIRE RATING.
- HYDROSTATICALLY TEST DOMESTIC WATER PIPING AT 150 PSI FOR THREE (3) 16. HOURS WITHOUT LEAKS.
- TEST WASTE, SANITARY AND VENT PIPING WITH A 10-FOOT HEAD OF WATER 17. FOR A MINIMUM OF 15 MINUTES WITHOUT LEAKS.
- TEST BURIED OR CONCEALED PIPING BEFORE CLOSING IN OR BACKFILLING. 18.
- DISINFECT POTABLE WATER SYSTEMS PRIOR TO BUILDING OCCUPANCY PER 19. CODES AND LOCAL OFFICIALS REQUIREMENTS. FLUSH SYSTEMS THOROUGHLY WITH POTABLE WATER AFTER DISINFECTION.
- CLEAN INTERIOR OF PIPING; REMOVE DIRT OR DEBRIS AS WORK PROGRESSES. 20. PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID
- 21. CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.
- PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN 22. WORK STOPS.
- FURNISH ALL EQUIPMENT MANUALS AND WARRANTIES TO TENANT/BUILDING OWNER AT THE COMPLETION OF THE PROJECT. 23.



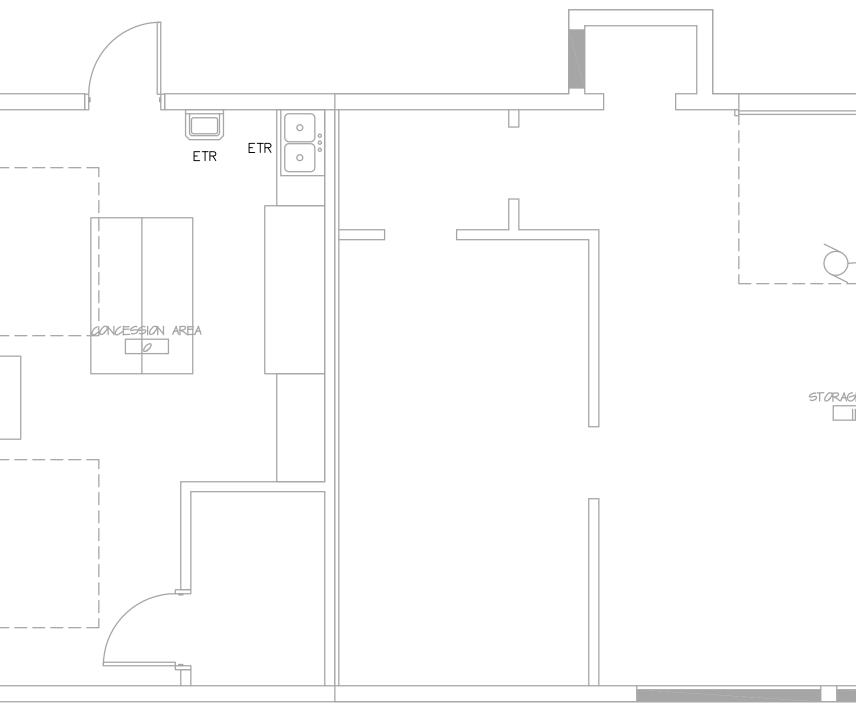
XTURE; INCLUDING ALL ASSOCIATED BRANCH PIPING PLY), SUPPLIES, STOPS, P-TRAP, DRAIN ASSEMBLIES, IXTURE & PIPING ARE <u>"NOT INTENDED"</u> TO BE INSTALLATION OF NEW FIXTURE.

NG ABOVE CEILING / HIGH IN SPACE / WITHIN WALL DEQUATE SIZE AND CAPACITY TO PROPOSED MENT AS INDICATED. FIELD VERIFY PIPE SIZE, ION POINT IN FIELD PRIOR TO INSTALLATION. CCESSING SHUTOFF/ISOLATION VALVE; COORDINATE ACCESS DOOR LOCATION WITH ARCHITECT...

3 LOCATION OF EXISTING WASTE/SANITARY PIPE BELOW FLOOR SLAB; CONNECT PIPING FROM NEW FIXTURE(S) INTO EXISTING AS INDICATED. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION, SIZE OF EXISTING PIPING PRIOR TO INSTALLATION &

CONNECTION.

& pipe routing. Where the existing drain pipe (previously serving existing sink indicated to be removed) is found to have an invert too shallow, not allowing proposed drainage piping to be installed as indicated on these plans; Contractor shall field verify an alternative drain connection point or method. Contractor shall submit alternative work options to Architect/Engineer for review PRIOR to



DRAWING KEY NOTES:

- FEEDING LAVATORY AS INDICATED.

- CONFIGURATION).
- (7) CONNECT HB TO WATER PIPING.

1 REMOVE EXISTING PLUMBING FIXTURE; INCLUDING ASSOCIATED SUPPLIES, STOPS, P-TRAP DRAIN ASSEMBLIES AND ESCUTCHEON COVERS;

<u>-EXISTING "WATER CLOSET"</u> BRANCH PIPING (DRAINAGE, VENT & CW SUPPLY) "ARE INTENDED" TO BE MAINTAINED FOR INSTALLATION OF NEW FIXTURE IN SAME LOCATION. <u>-EXISTING "LAVATORY"</u> DRAINAGE & VENT BRANCH PIPING "ARE INTENDED" TO BE MAINTAINED FOR INSTALLATION OF NEW FIXTURE IN SAME LOCATION"; HW&CW SUPPLY PIPING ARE INTENDED TO BE MODIFIED TO ACCOMMODATE PROPOSED SINGLE PIPE TEMPERED HW SYSTEM AS INDICATED.

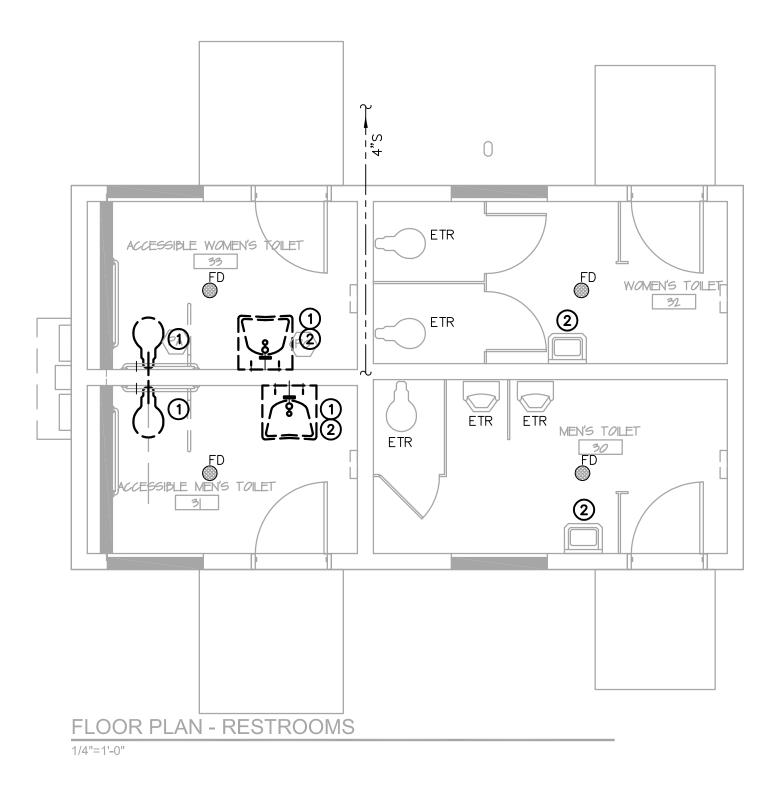
(2) EXISTING / PROPOSED LAVATORY SUPPLY PIPING TO BE MODIFIED TO ACCOMMODATE SINGLE PIPE TEMPERED HW SYSTEM; -CW SUPPLY: DISCONNECT & CAP CW BRANCH PIPE FEEDING LAVATORY. -HW SUPPLY: DISCONNECT & RECONNECTED PROPOSED HW (TEMPERED) BRANCH PIPE

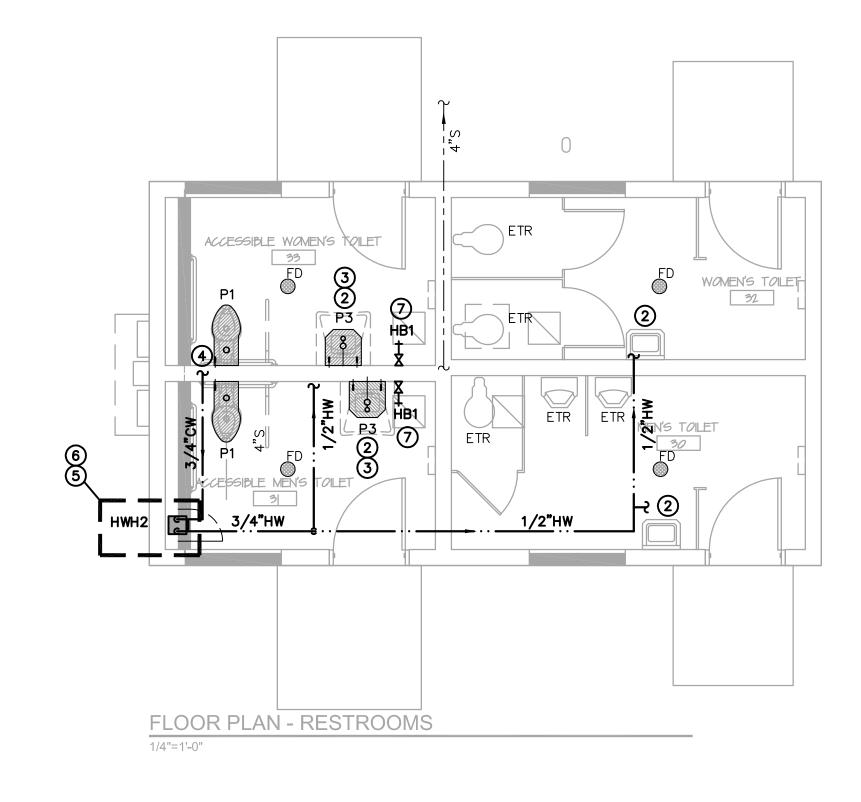
3 PROPOSED LAVATORY LOCATION: PROVIDE NEW SUPPLIES, STOPS, P-TRAP DRAIN ASSEMBLIES AND ESCUTCHEON COVERS.

(4) LOCATION OF EXISTING CW PIPING ABOVE CEILING/WITHIN WALL CHASE TO REMAIN; EXTEND PIPING TO PROPOSED EQUIPMENT AS INDICATED. FIELD VERIFY PIPE SIZE, ROUTING AND EXACT CONNECTION POINT IN FIELD PRIOR TO INSTALLATION.

5 PROVIDE DOMESTIC HOT WATER HEATER "HWH-1"; WALL MOUNTED WITH FERRED OUT AREA. (REFER TO WATER HEATER PIPING DETAIL - HWH-1 FOR DEVICES AND PIPING

⁽⁶⁾ PRESSURE RELIEF VALVE & WATER HEATER DRAIN PAN PIPING: TERMINATE PIPES ABOVE FLOOR WITHIN FERRED OUT SPACE FOR WATER HEATER.





	W- E S	
	FRAGRESSIVE ENGINEERING, INC ZB MAIN STREET, EAST HARTEORD, CT 06118 TEL: 860.895.8386 FE # 12034	
REVISIONS		
PLUMBING FLOOR PLAN - RESTROOM BUILDING	BATES WOODS PARK PHASE II BUILDING IMPROVEMENTS	NEW LONDON, CONNECTICUT
DATE MMI P	ED DRAWN CH 1/4" = 1'- JANUARY 25, ROJECT NO ONDON PROJ. NO.	
SHEET	Р—2 іn set:) -

	PLUMBING FIXTURE SCHEDULE												
NO.	FIXTURE	MFG.	FIXTURE TYPE &	TRIM TYPE &	SUPPLY PIPE		FIXTURE CARRIER &	PIPE SIZI				-	FIXTURE/TRIM DESCRIPTION & REMARKS
110.	TIXTORE	MI 0.	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	SUPPORT NO.	TRAP	WASTE	VENT	CW HW		
P1	WATER CLOSET	METCRAFT	4655 HANDICAP TOILET FIXTURE (LOW FLOW 1.60 GPF, FLOOR MOUNTED FLUSH VALVE FIXTURE (16-1/2" RIM HEIGHT)	SLOAN ROYAL 111-1.6 MANUAL FLUSH VALVE (1.60 GPF)	_	-	FLOOR MOUNTED	-	4*	2"	1–1/2"	_	ADA COMPLIANT, FLOOR MOUNTED, FLOOR OUTLET, TOP MOUNTED EXPOSED FLUSH VALVE, LOW FLOW TOILET, HEAVY GUAGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, VANDAL RESISTANT UNIT & TRAP ENCLOSURE, EXPOSED SURFACES TO HAVE SATIN FINISH; INTEGRAL ELONGATED SEAT TO HAVE BRIGHT MIRROR FINSH. STAINLESS STEEL 2-5/8" TRAPWAY, 1.60 GPF.
P2	URINAL	METCRAFT	7635 HANDICAP URINAL FIXTURE (1.0 GPF)	SLOAN ROYAL 186–1.0 MANUAL FLUSH VALVE (1.0 GPF)	-	-	WALL MOUNTED W/ FIXTURE CARRIER	-	2"	1–1/2"	3/4"	-	ADA COMPLIANT, WALL MOUNTED, BACK OUTLET, TOP MOUNTED EXPOSED FLUSH VALVE, LOW FLOW URINAL, HEAVY GUAGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, BEEHIVE STYLE STRAINER, VANDAL RESISTANT UNIT & P-TRAP ENCLOSURE, EXPOSED SURFACES TO HAVE SATIN FINISH. STAINLESS STEEL 1-1/2" TRAPWAY, 1.0 GPF.
P3	LAVATORY (WALL MOUNTED)	METCRAFT	5680-A311 HANDICAP LAVATORY FIXTURE W/ SINGLE TEMPERATURE PNEUMATIC VALVE METERING FAUCET	FAUCET INTEGRAL TO FIXTURE	McGUIRE H170—LK	McGUIRE 8902 1-1/4"INLET, 1-1/2"OUTLET P-TRAP W/ CO & McGUIRE 155A GRID DRAIN W/ TAILPIECE	WALL MOUNTED W/ FIXTURE/ HANGER CARRIER	1–1/4" × 1–1/2"	1-1/2"	1-1/2"	_	pipe	ADA COMPLIANT 18" x 18" WALL HUNG RECTANGULAR LAVATORY, HEAVY GUAGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, W/ INTEGRAL BACKSPLASH, SINGLE TEMPERATURE PNEUMATIC VALVE METERING TYPE FAUCET, FRONT OVERFLOW, SOAP DEPRESSION & DRAIN ASSEMBLY, VANDAL RESISTANT UNIT & P-TRAP ENCLOSURE. EXPOSED SURFACES TO HAVE SATIN FINISH.
NOTES: 1	. REFER TO ARCH	HITECTURAL DR	AWINGS FOR STANDA	RD AND ADA FIXTUR	RE LOCATIONS, I	MOUNTING HEIGH	ITS, ELEVATIONS	AND DET	AILS.				

PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE or TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES SHALL BE CHROME PLATED BRASS. (IN LOCATIONS WHERE PIPING IS TO BE 2. COVERED W/ INSULATION BRASS FINISH ONLY MAY BE SUBSTITUTED).

GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES. 3.

PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATED. 4.

PLUMBING FIXTURE - STAINLESS STEEL MATERIAL EQUIVALENT MANUFACTURER'S: ACORN, METCRAFT. 5.

FLUSH VALVE EQUIVALENT MANUFACTURER'S: SLOAN, HYDROTEK, KOHLER, TOTO. 6.

- PLUMBING FIXTURE CARRIER EQUIVALENT MANUFACTURER'S: JOSAM, MIFAB, WADE, WATTS. 7.
- 8. SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE or TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES EQUIVALENT MANUFACTURER'S: McGUIRE, T&S BRASS, BRASS CRAFT. WATTS.

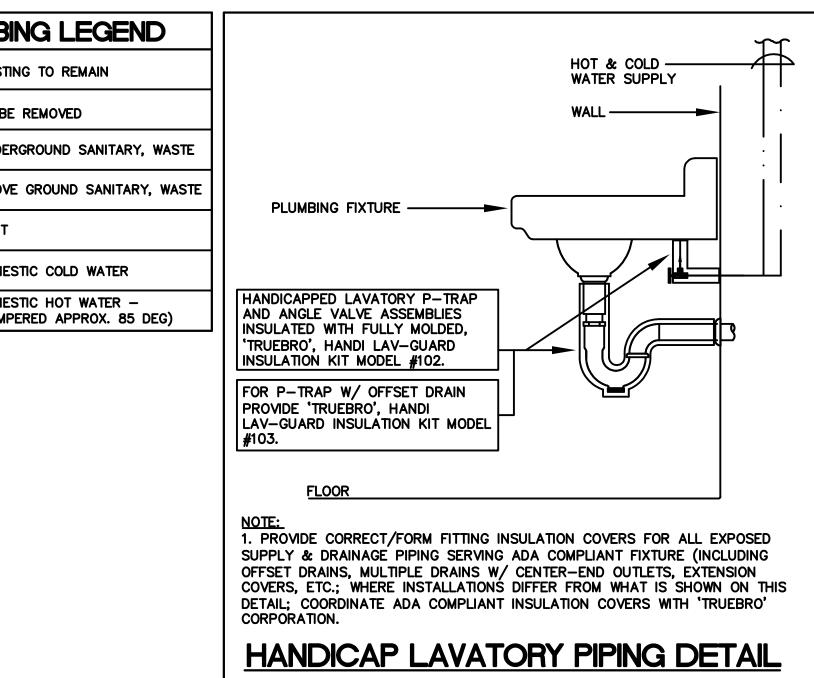
WATER HEATER SCHEDULE											PLUMBING SYMBOL TABLE						
ITEM	MANUFACTURER	MODEL	TYPE	GALLONS	ELEMENTS	ĸw	FLA	VOLTAGE	PHASE	REMARKS	AFF	ABOVE FINISHED FLOOR		UTILITY METER (GAS or WATER)			
HWH1&2	BRADFORD WHITE		ELECTRIC	2	1	1.5 *	20 AMP	120 (3-PRONG	1	7.0 GPH RECOVERY AT 90°F RISE	BFF	BELOW FINISHED FLOOR	þ	BALL VALVE			
		(HEATER SIZE: 9"W X 10-1/4"L X 13" H)					REQUIRED	PLUG IN)			CW	DOMESTIC COLD WATER	-+ ^{HB}	HOSE BIB			
NOTES:						* NC	N-SIMULT/	ANEOUS SIN	GLE ELE	MENT OPERATION	ETR	EXISTING TO REMAIN	₩H	WALL HYDRANT			
2. PROV	IDE ALUMINUM DR.	ON BRADFORD WHITE; AIN PAN AS MANUFACT ATER DETECTOR/SAFET	FURED BY	OATEY.			-	-			F.F.	FINISHED FLOOR	<u> </u>	TEE DOWN			
FIRSTSMA 4. REFE	RT SENSOR (FLOO R TO WATER HEAT	DSTOPPER SYSTEM) OR ER DETAIL FOR HW OU	TACO (W	AGS). COO PERATURES	RDINATE EL , PIPING AF	ECTRIC RRANGE	AL POWER	REQUIREME PECIALTIES.	NTS WIT	H ELECTRICIAN.	нжн	DOMESTIC HOT WATER HEATER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PIPE UP			
ACCESSO 1. COMB		TURE/PRESSURE GAUGE	-								нพ	DOMESTIC HOT WATER	c →	PIPE DN			
STANDAR	D FEATURES:	·			IA OKET						IE	INVERT ELEVATION	[CAPPED PIPE			
-FULLY A	AUTOMATIC ADJUS	ON W/ STEEL BAKED C TABLE TEMPERATURE C N/ IMMERSED ELEMENT	ONTROL	ED UUIER	JACKET						IW	INDIRECT WASTE	►	DIRECTION OF FLOW			
-DEEP DI -PROTEC	RAWN STEEL TANK TIVE MAGNESIUM A ERROUS OUTER JAG	ANODE ROD									S	SANITARY	— ı co	CLEAN OUT			
-T&P RE -U.L. LIS	LIEF VALVE STED										v	VENT	—I wco	WALL CLEAN OUT			
-FACTOR	Y INSTALLED HEAT	SITIVE MANUAL RESET E I TRAPS (FOR NON–RE NTEE STEEL TANK AND	CIRCULATE	D HW SYS		IU PRE	VENT OVER	KHEATING			VTR	VENT THROUGH ROOF	©FC0	FLOOR CLEAN OUT			
		······ •···· • • • • • • • • • • • • •		-							w	WASTE	60	P-TRAP			
	P	LUMBING S	SPEC		IES S		IEDU	ILE					€ FD	FLOOR DRAIN			

	P	LUMBING	SPECIA	ALTIES SCHEDULE		
UNIT ID	MFG.	MODEL NO.	DESCRIPTION	DESCRIPTION	1	
FD1	WADE	1100-STD6-NH	FLOOR DRAIN (FINISHED AREA LIGHT DUTY TOP)	CAST IRON FLOOR DRAIN WITH INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, 1/2" TRAP PRIMER TAPPING, 6" DIA. ROUND "LIGHT DUTY" NICKEL BRONZE TOP WITH VANDAL RESISTANT SCREWS.	PLUN	1BI
HB1	WOODFORD (INTERIOR USE)	24	WALL FAUCET (EXPOSED)	ANIT-SIPHON VACUUM BREAKER PROTECTED EXPOSED WALL FAUCET, W/ POLYCARBONATE WHEEL HANDLE. -PROVIDE ROUGH BRASS (MACHANICAL AREA) / POLISHED CHROME (FINISHED AREA). -PROVIDE INLET OPTION TO SUIT PROJECT & APPLICATION.	∼ — — то	XISTIN D BE
WTP (FOR FLOOR DRAINS IN UNHEATED LOCATIONS)	SURE SEAL	SURE SEAL WATER-LESS TRAP PRIMER DEVICE	WATER-LESS TRAP PRIMER DEVICE	WATER-LESS TRAP SEAL PRIMER DEVICE, INSTALL DEVICE INSIDE DRAIN OUTLET W/ SILICONE SEALANT PER MANUFACTUERERS INSTALLATION INSTRUCTIONS. INTENDED FOR USE IN UNHEATED LOCATIONS.		NDER(BOVE
WH1	WOODFORD (FREEZELESS)	65	WALL HYDRANT (EXPOSED, KEY OPERATED)	AUTOMATIC DRAINING W/ANTI-SIPHON VACUUM BREAKER W/ 3/4" GARDEN HOSE THREADED OUTLET, FREEZLESS WALL HYDRANT & LOOSE TEE KEY OPERATED -PROVIDE CHROME PLATED FINISH WHERE DIRECTED BY ARCHITECT. (PROVIDE INLET OPTION TO SUIT PROJECT & APPLICATION).		ENT OMES OMES TEMPE
FC01	WADE	6000-1-75	FLOOR CLEANOUT (FINISHED AREA LIGHT DUTY)	CAST IRON FLOOR CLEANOUT WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE W/ COUNTERSUNK TAPERED BRASS PLUG, 6" ROUND "LIGHT DUTY" NICKEL BRONZE SCORIATED TOP. (LIGHT DUTY TOP, UNDER 2000 LBS)		

ABOVE SPECIALTIES ARE BASED ON LISTED MANUFACTURER(S), EQUIVALENT MANUFACTURERS LISTED BELOW MAY BE SUBMITTED FOR CONSIDERATION, ALL SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. FLOOR DRAIN EQUIVALENT MANUFACTURERS: WADE, J.R. SMITH, JOSAM, WATTS.

FLOOR, WALL, GRADE CLEANOUT EQUIVALENT MANUFACTURERS: WADE, J.R. SMITH, JOSAM, WATTS.

TRAP PRIMER EQUIVALENT MANUFACTURERS: (WATERLESS TYPE: PROSET, SURE SEAL) WALL HYDRANT & HOSE BIB EQUIVALENT MANUFACTURERS: WOODFORD, J.R. SMITH, JOSAM, WATTS.



MIN. FLOW: MAX. FLOW:	
TEMPERATURE GAUGE (INSTAIN EASY TO VIEW LOCATION ABOVE CEILING)	ALL —
ISOLATION VALVE BALL	
TEMP. & PRESS. SAFETY RELIEF VALVE	WATER HEA (PROVIDE
DRAIN VALVE	
MOUNT ASSEMBLY TO BUILDING STRUCTURE	
SPILL TO LOCATION INDICATED ON PLAN PROVIDE EMERGENCY WATER ASSEMBLY ON CW SUPPLY F (REFER TO WATER HEATER S MODEL). WHEN WATER IN DF EMERGENCY WATER SAFETY SUPPLY FEEDING WATER HEA SENSING DEVICE IN DRIP/DR	FEEDING WATER HEATER; SCHEDULE FOR MAKE & RIP/DRAIN PAN IS SENSED DEVICE A VALVE ON CW ATER SHALL CLOSE. (LOCA)
	NOTES: 1. PROVIDE PIPING IN 2. INSTALL MIXING VA 3. PROVIDE EMERGEN DOMESTIC HOT WATEF 4. PROVIDE HEAT TRA HOT WATER STORAGE 5. PROVIDE DIELECTR WATER HE
LAWLER MODE PRESSURE DF MIN. FLOW: .	C MIXING VALVE "MXV" -
VACUUM BREAKER	ROP: 5-10 PSI 5 GPM 7 GPM
VACUUM BREAKER — TEMPERATURE GAUGE (INSTAIN EASY TO VIEW LOCATION ABOVE CEILING) ISOLATION VALVE BALL — TYPE (TYP) UNION (TYP) — [ROP: 5-10 PSI 5 GPM 7 GPM
VACUUM BREAKER TEMPERATURE GAUGE (INSTAIN EASY TO VIEW LOCATION ABOVE CEILING) ISOLATION VALVE BALL TYPE (TYP)	ROP: 5-10 PSI 5 GPM 7 GPM
VACUUM BREAKER TEMPERATURE GAUGE (INST IN EASY TO VIEW LOCATION ABOVE CEILING) ISOLATION VALVE BALL TYPE (TYP) UNION (TYP) TEMP. & PRESS	ROP: 5-10 PSI 5 GPM 7 GPM
VACUUM BREAKER TEMPERATURE GAUGE (INSTAIN EASY TO VIEW LOCATION ABOVE CEILING) ISOLATION VALVE BALL TYPE (TYP) UNION (TYP) TEMP. & PRESS SAFETY RELIEF VALVE	ROP: 5-10 PSI 5 GPM ALL ALL WATER HEA (PROVIDE PLATFORM O SUSPEND FI
VACUUM BREAKER TEMPERATURE GAUGE (INSTAIN IN EASY TO VIEW LOCATION ABOVE CEILING) ISOLATION VALVE BALL TYPE (TYP) UNION (TYP) TEMP. & PRESS. SAFETY RELIEF VALVE DRAIN VALVE MOUNT ASSEMBLY TO BUILDING	ROP: 5-10 PSI 5 GPM 7 GPM ALL ALL WATER HEA (PROVIDE PLATFORM SUSPEND FI STRUCTURE) SAFETY SHUT-OFF SAFETY SHUT-OFF SAFETY SHUT-OFF SEEDING WATER HEATER; SCHEDULE FOR MAKE & RIP/DRAIN PAN IS SENSED DEVICE A VALVE ON CW ATER SHALL CLOSE. (LOCA

