

NEW RESTROOM BUILDING

EISENHOWER PARK

33 SHEEP HILL ROAD
WEST HARTFORD, CT 06117

ISSUED FOR BIDDING FEBRUARY 6, 2020

ARCHITECT:

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Restroom Building

Eisenhower Park
Restroom Building
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architecture + interior design + environmental design
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MECHANICAL/ELECTRICAL:
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MATERIALS LEGEND

	CONCRETE		PLYWOOD (SMALL SCALE)
	CONCRETE MASONRY UNIT		TILE
	BRICK		WOOD FRAMING THROUGH MEMBER
	STONE		WOOD FRAMING INTERRUPTED MEMBER
	METAL		FINISHED WOOD
	COMPACTED GRAVEL		BATT INSULATION
	CRUSHED STONE		ACOUSTICAL INSULATION
	UNDISTURBED SOIL		RIGID INSULATION

CEILING SYMBOLS

	ROOM NUMBER WITH CEILING HEIGHT		SPEAKER
	RECESSED LIGHT FIXTURE		CEILING MOUNTED EXIT SIGN
	WALL MOUNTED LIGHT FIXTURE		WALL MOUNTED EXIT SIGN
	FLUSH FLUORESCENT		TILE SET OUT POINT
	PENDANT FLUORESCENT		GYP BD CEILING (REFER TO FINISH PLAN FOR MOISTURE RESISTANT LOCATIONS)
	RETURN GRILLE		CEMENT BOARD CEILING
	SUPPLY GRILLE		ACOUSTICAL TILE/PANEL CEILING GRID
	SMOKE DETECTOR		
	SPRINKLER HEAD		

DRAWING SYMBOLS

	ROOM NAME		ROOM NUMBER		EXTERIOR ELEVATION KEY		KEY NOTE		FLOOR LEVEL EL ABOVE DATUM EXISTING ELEVATION
	DOOR NUMBER		INTERIOR ELEVATION KEY		BUILDING SECTION KEY		DIMENSION LINE		FLOOR LEVEL EL ABOVE DATUM NEW ELEVATION
	PLAN DETAIL KEY (SQUARE)		WALL SECTION KEY		MATCH LINE		SPOT GRADE		REVISION KEY (USED WITH CLOUD)
	LOUVER TYPE		DETAIL SECTION KEY		GRAPHIC SCALE		REVISION KEY (USED WITH CLOUD)		GRAPHICS & SIGNAGE
	EXTERIOR WINDOW		EXISTING COLUMN GRID LINE		ROOM OCCUPANCY LOAD		EXIT CAPACITY		ACTUAL EGRESS OCCUPANCY
	INTERIOR WINDOW		NEW COLUMN GRID LINE		MAXIMUM ALLOWABLE EGRESS OCCUPANCY				

ABBREVIATIONS

& AND	CIRC CIRCUMFERENCE	DWG DRAWING	FV FIELD VERIFY	MACH MACHINE	PA PUBLIC ADDRESS	RFH ROOF HATCH	TPD TOILET PAPER DISPENSER
< ANGLE	CJ CONTROL JOINT	E EAST	GA GAUGE	MAS MASONRY	PAR PARALLEL	RFL REFLECT	TPN TOILET PARTITION
A/C AIR CONDITIONING	CLG CEILING	EACH EACH	GB GALVANIZED	MAT MATERIAL	PB PANIC BAR	RH RIGHT HAND	TS TOP OF STEEL
AB ANCHOR BOLT	CLL CONTRACT LIMIT LINE	EA EACH	GB GRAB BAR	MKB MARKER BOARD	PBC PARTICLE BOARD	RM ROOM	TSJ TOP OF SLAB
AC ACOUSTICAL	CLR CLEAR	EB EXPANSION BOLT	GC GENERAL CONTRACTOR	MW MACHINE BOLT	PCB PRE CAST CONCRETE	RO ROUGH OPENING	TV TELEVISION
ACPL ACOUSTICAL PLASTER	CLS CLOSURE	EF EACH FACE	GMU GLAZED GMU	MBR MEMBER	PCF POUNDS PER CUBIC FOOT	ROW RIGHT OF WAY	TW TOP OF WALL
ACT ACOUSTIC TILE	CMU CONCRETE MASONRY UNIT	EJ EXPANSION JOINT	GR GRADE	MC MINERAL CORE	PED PEDESTAL	RWC RAIN WATER CONDUCTOR	TYP TYPICAL
ADA AMERICANS WITH DISABILITIES ACT	CO CLEAN OUT	EL ELEVATION	GL GROUND FACE	MECH MECHANICAL	PERF PERFORATE	RWL RAINWATER LEADER	TZ TERRAZZO
ADJ ADJACENT	COL COLUMN	ELEC ELECTRIC	GD GROUND	MED MEDIUM	PERIM PERIMETER		UC UNDERCUT
ADJT ADJUSTABLE	COMB COMBINATION	ELEV ELEVATOR	GRD GROUND	MFP MECHANICAL/ELECTRICAL/PLUMBING	PFB PREFABRICATED		UNF UNFINISHED
AFF ABOVE FINISHED FLOOR	COMP COMPRESS	EMER EMERGENCY	GYP GYPSUM	MFR MANUFACTURER	PFN PRE FINISHED		UNO UNLESS OTHERWISE NOTED
AGG AGGREGATE	COMPO COMPOSITION	ENC ENCLOSE	EP ELECTRICAL PANEL BOARD	MH MANHOLE	PL PROPERTY LINE		
ALT ALTERNATE	CONC CONCRETE	EQ EQUAL	EQ EQUAL	MIN MINIMUM	PLAM PLASTIC LAMINATE		
ALUM ALUMINUM	CONN CONNECT(ION)	EOP EQUIPMENT	EST ESTIMATE	MISC MISCELLANEOUS	PLF POUNDS PER LINEAL FOOT		
ANGD ANODIZED	CONST CONSTRUCTION	EQP EQUIPMENT	EWC ELECTRIC WATER COOLER	MK MARK	PNS PANEL		
AP ACOUSTICAL PANEL	CONT CONTINUOUS	EST ESTIMATE	EXC EXCAVATE	MKB MARKER BOARD	PLF POUNDS PER LINEAL FOOT		
APPROX APPROXIMATE	CONTR CONTRACTOR	EWC ELECTRIC WATER COOLER	EXG EXISTING	MND MOLDING	POL POLISHED		
ARCH ARCHITECT(URAL)	CONR CONTRACTOR	EXG EXISTING	EXH EXHAUST	MLD MOLDING	PORC PORCELAIN		
ASB ASBESTOS	COR CORRUGATED	EXIST EXISTING	HC HOLLOW CORE	MWB MEMBER	PROP PROPERTY		
ASPH ASPHALT	CPR COPPER	EXP EXPOSED	HDW HARDWARE	MOV MOVABLE	PRSC PROJECTION SCREEN		
ASR AUTOMATIC SPRINKLER RISER	CPT CARPET	EXPN EXPANSION	HDR HEADER	MOP MOP RECEPTOR	PSF POUNDS PER SQUARE FOOT		
AUTO AUTOMATIC	CR COLD ROLLED	EXT EXTERIOR	HWND HARDWOOD	MT MOUNT	PSI POUNDS PER SQUARE INCH		
BD BOARD	CRG CROSS GRAIN	EXTRA EXTRA STRONG	HM HOLLOW METAL	MTR METAL ROOF DECK	PT POINT		
BET BETWEEN	CRS COURSE	EXT EXTERIOR	HOR HORIZONTAL	MTH METAL THRESHOLD	PTD PAINTED		
BIT BITUMINOUS	CS COUNTERSINK	FA FIRE ALARM	HP HIGH POINT	MTL METAL	PTN PARTITION		
BJT BED JOINT	CSMT CASEMENT	FD FLOOR DRAIN	HT HTG	MUL MULLION	PVC POLYVINYL CHLORIDE		
BLDG BUILDING	CT CERAMIC TILE	FE FIRE EXTINGUISHER	HVAC HEATING	MWK MILLWORK	PVM PAVEMENT		
BLK BLOCK	CTR CENTER	FEC FIRE EXTINGUISHER CABINET	HW HOT WATER	N NORTH	PWD PLYWOOD		
BLKG BLOCKING	CTSK COUNTERSINK	FF FACTORY FINISH	HWV HOT WATER HEATER	NAT NATURAL	QT QUARRY TILE		
BM BEAM	CW COLD WATER	FGE FINISHED FLOOR ELEVATION	IE INSIDE DIAMETER	NIC NOT IN CONTRACT			
BOT BOTTOM	CYD CUBIC YARD	FGL FIBERGLASS	ID INVERT ELEVATION	NO NUMBER			
BRG BEARING	D DRAIN	FH FIRE HYDRANT	IN INCHES	NOM NOMINAL			
BRK BRICK	DEM DEMOLISHED	FHC FIRE HOSE CABINET	INCL INCLUDE	NRC NOISE REDUCTION COEFFICIENT			
BS BOTH SIDES	DET DETAIL	FIN FINISHED	INSUL INSULATE	NTS NOT TO SCALE			
BSMT BASEMENT	DF DRINKING FOUNTAIN	FJT FLUSH JOINT	INT INTERIOR	OA OVERALL			
BUR BUILT UP ROOFING	DGM DIAGRAM	FLG FLASHING	INV INVERT	OBS OBSOURE			
BW BOTH WAYS	DH DOUBLE HUNG	FLR FLOOR	JB JUNCTION BOX	OC ON CENTER			
CAB CABINET	DIAG DIAGONAL	FLUR FLUORESCENT	JO JOINT	OD OUTSIDE DIAMETER			
CAR CARPETING	DIAM DIAMETER	FND FOUNDATION	KO KNOCKOUT	OH OVERHEAD			
CB CATCH BASIN	DIM DIMENSION	FOS FACE OF STUD	KPL KICK PLATE	OP OPAQUE			
CBD CHALK BOARD	DIST DISTANCE	FR FRAME	LAM LAMINATE	OP OPENING			
CEM CEMENT	DL DEAD LOAD	FRT FIRE RETARDANT	LAV LAVATORY	OPH OPPOSITE HAND			
CFL COUNTER FLASHING	DLT DEMOUNTABLE	FS FULL SIZE	LBL LABEL	OPP OPPOSITE			
CFE CUBIC FOOT	DP DAMPROOFING	FTG FOOTING	LH LEFT HAND				
CG CORNER GUARD	DPR DAMPER	FUR FURRED	LL LIVE LOAD				
CI CAST IRON	DS DOWN SPOUT	FUT FUTURE	LP LOW POINT				
	DT DRAIN TILE		LVR LOUVER				
	DTL DETAIL						

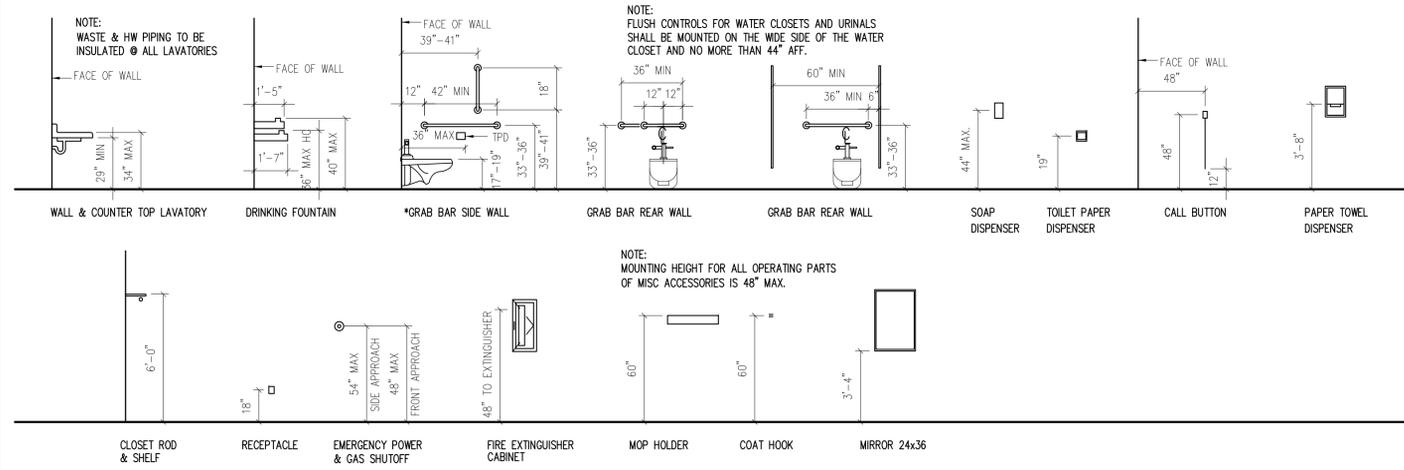
LINE TYPE LEGEND

	EXISTING CONSTRUCTION		CENTER LINE
	REMOVALS		BREAK LINE
	NEW CONSTRUCTION		HIDDEN LINE

DRAWING LIST

COVER	A-0.1 INFORMATION SHEET
ARCHITECTURAL	A-1.0 FLOOR PLAN, EXTERIOR ELEVATIONS, SECTION AND INTERIOR ELEVATIONS
	A-2.0 DOOR AND FRAME DETAILS, WALL SECTION
STRUCTURAL	S-1.0 FOUNDATION PLAN, ROOF FRAMING PLAN, DETAILS & NOTES
	S-1.2 GENERAL NOTES, SECTIONS & DETAILS
MECHANICAL	M-1.0 MECHANICAL PLANS
	M-2.0 MECHANICAL SPECIFICATIONS
PLUMBING	P-1.0 PLUMBING PLAN
ELECTRICAL	E-0.0 ELECTRICAL SCHEDULE
	E-1.0 ELECTRICAL PLAN
	E-2.0 ELECTRICAL SPECIFICATIONS

MOUNTING HEIGHTS



issues + revisions:

no.	date	issued
1	02.06.20	BIDDING
2		
3		
4		
5		
6		
7		
8		

project: 1711.00
drawn by: JKB
scale: NONE

sheet:
INFORMATION SHEET

Restroom Building

Eisenhower Park
Restroom Building
33 Sheep Hill Road
West Hartford, CT 06117

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BOSTWICK ARCHITECTS, LLC

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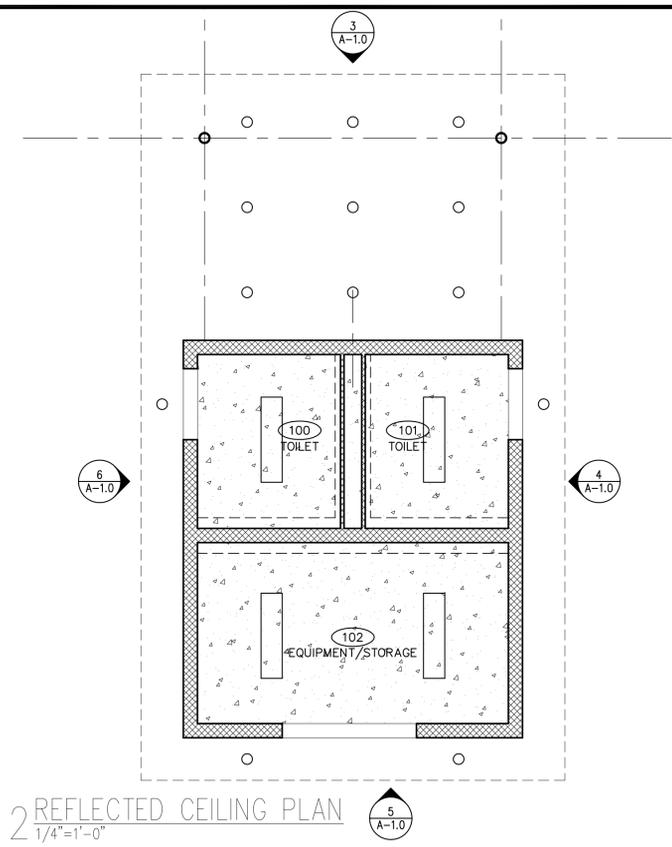
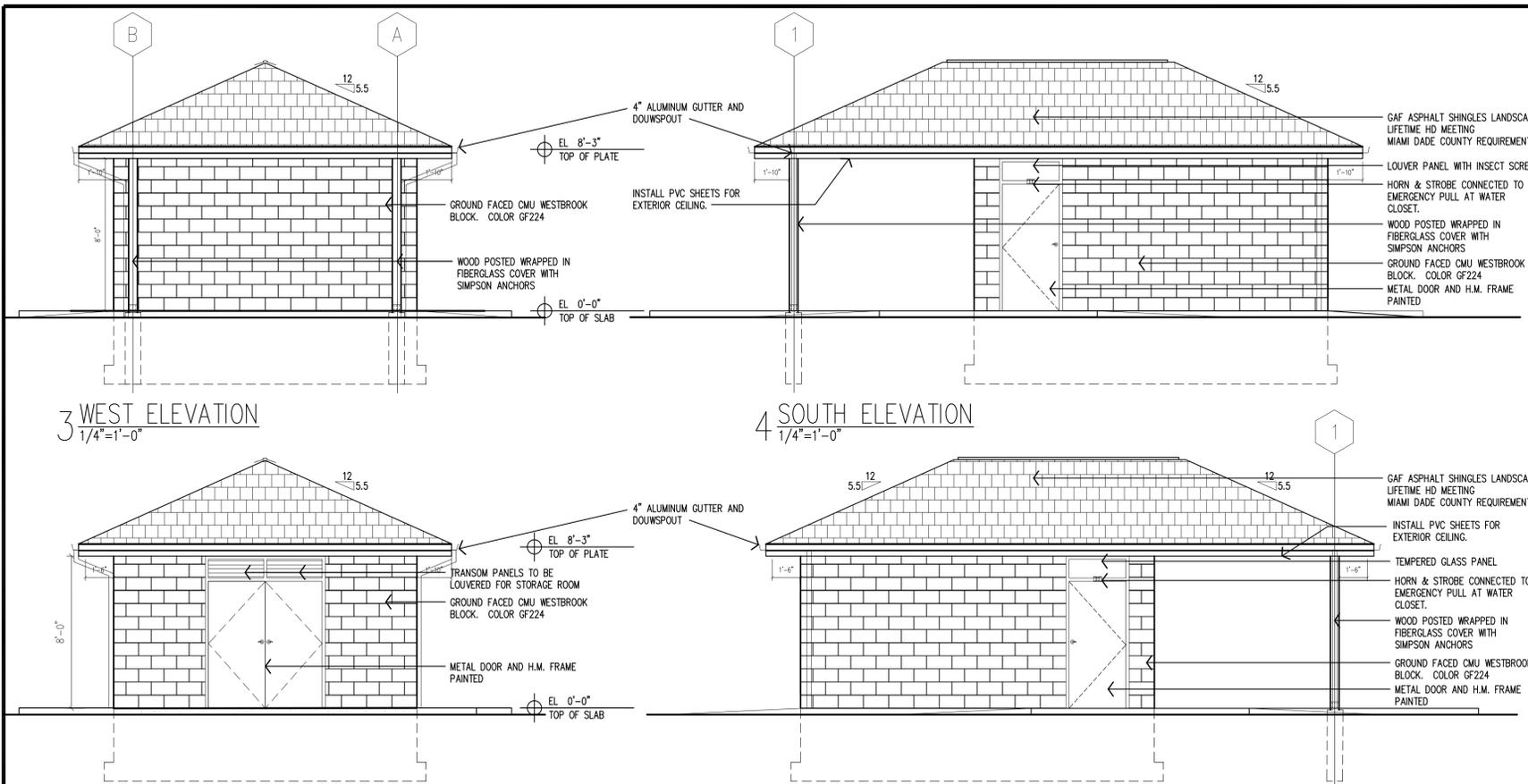
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TOILET ROOMS ACCESSORIES

- 1 TOILET TISSUE DISPENSER
- 2 ELECTRIC HAND DRYER MODEL TA-ABS WHITE POLYMER, 120 VOLT
- 3 SOAP DISPENSER
- 4 24" W x 36" H MIRROR S.S. TILT DOWN MIRROR
- 5 KB200-01 KOALA HORIZONTAL GRAY BABY CHANGING STATION
- 6 18" L. VERTICAL GRAB BAR
- 7 42" L. GRAB BAR
- 8 36" L. GRAB BAR
- 9 DOOR HOOKS
- 10 CALL FOR AID
- CO CLEAN OUT ACCESS

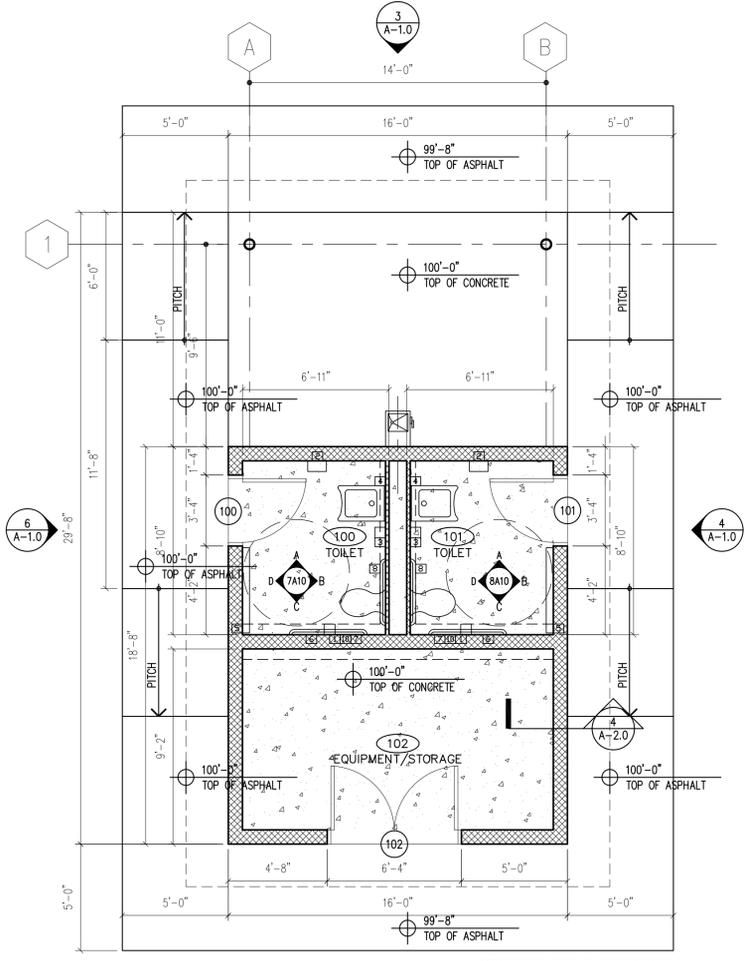
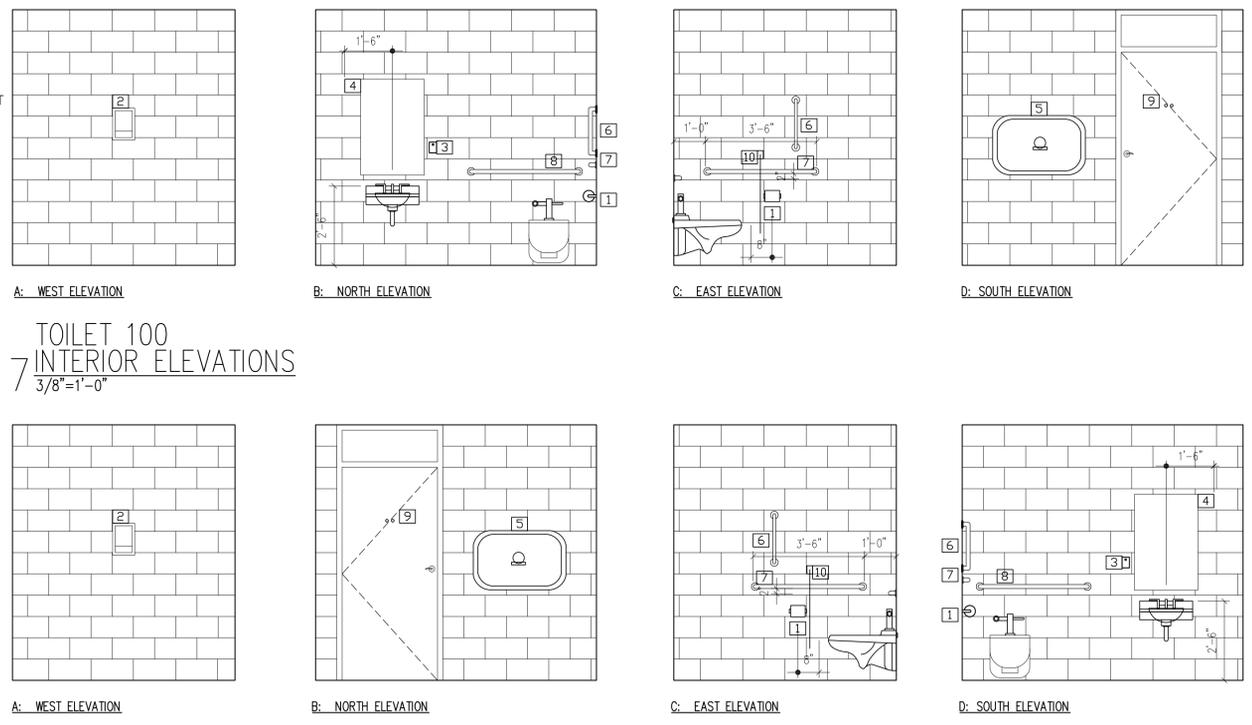
TOILET PAPER DISPENSER AND SOAP DISPENSER ARE PROVIDED BY THE TOWN OF WEST HARTFORD AND INSTALLED BY THE CONTRACTOR.

PLUMBING LINES TO PITCH TO A SINGLE LOW POINT FOR EASE OF WINTERIZATION.

PITCH THE NEW CONCRETE SLAB IN THE INTERIOR SPACE TO THE DOOR.

ALL LIGHTING TO BE LED AND VANDAL-PROOF. LIGHTS DIRECTLY OUTSIDE RESTROOM DOORS TO BE ON A TIMER DUSK TO 9:00 PM.

INTERIOR CMU WALLS TO BE SEALED WITH SUREKLEAN WEATHER SEAL SILOXAN PD.



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

CONSTRUCTION SITE WILL BE PROTECTED BY A CONSTRUCTION FENCE. THE SIZE AND PLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROTECT ALL DRAINAGE STRUCTURES FROM CONTAMINATION OF SOILS DURING CONSTRUCTION.

REMOVE THE CONCRETE SLAB IN ITS ENTIRETY LEAVING THE PERIMETER FOUNDATION AND FOOTING INTACT. UPON COMPLETION OF ALL UNDERGROUND WORK INSTALL 6" COMPACTED STONE, 6 MIL VAPOR BARRIER, 4" THICK CONCRETE SLAB WITH WELDED WIRE MESH. PIN NEW CONCRETE WITH NUMBER 3 BARS EVERY 12" O.C. PINNING THE EXISTING FOUNDATION AND NEW SLAB.

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drawn by: JKB
scale: AS NOTED

sheet:
**FLOOR PLANS,
EXT. ELEVATIONS,
SECTION & INT.
ELEVATIONS**

CAD INFORMATION: VIEW:
 FILE NAME:
 DATE AND TIME PLOTTED:
 PLOTTED BY:

Restroom Building

Eisenhower Park
Restroom Building
33 Sheep Hill Road
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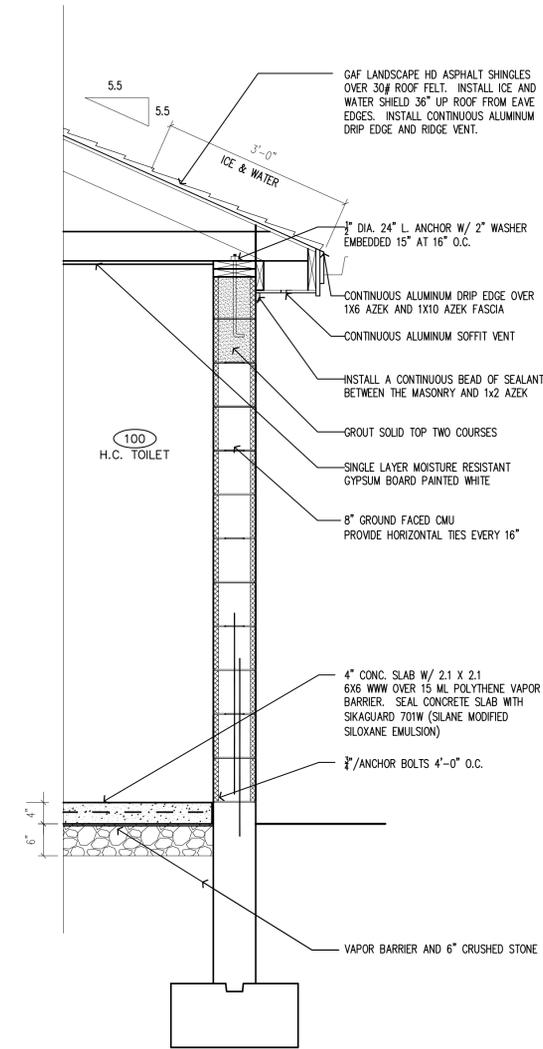
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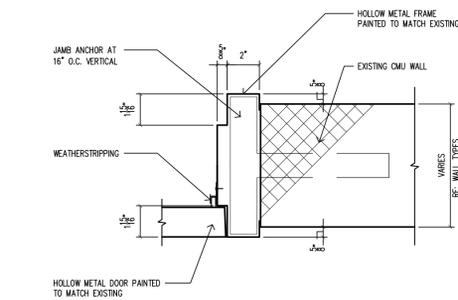
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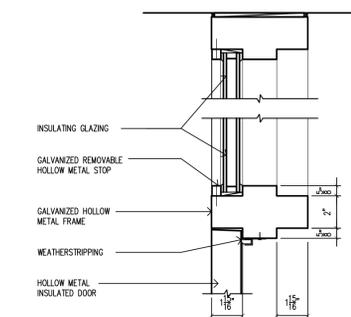
DOOR HARDWARE
BEST LATCHSET HEAVY DUTY 40H MORTISED SERIES PRIVACY US26D
BEST 71-SERIES CYLINDRICAL DEADBOLT WITH "IN USE" PROVISIONS US26D
BEST LOCK CYLINDER AND KEYING SYSTEM TO MATCH TOWN OF WEST HARTFORD MASTER KEYING SYSTEM
ROCKWOOD STAINLESS STEEL KICK PLATES BOTH SIDES OF EACH DOOR LEAF 12" HIGH 34" WIDE
MECKINNEY STAINLESS STEEL HEAVY DUTY HINGES. TA2314 4 1/2" X 4 1/2" NON-REMOVABLE PINS
LON 4100 SERIES CLOSER
7300B SMALL FORMAT INTERCHANGEABLE CORES
WEATHERSTRIPPING



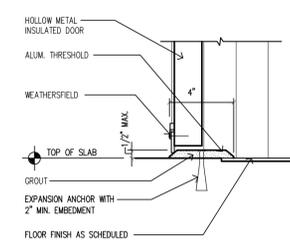
4 WALL SECTION
3/4"=1'-0"



3 JAMB - HOLLOW METAL DOOR/WINDOW
3/4"=1'-0"
HOLLOW METAL DOOR, FRAME AND TRANSOM TO BE PAINTED TO MATCH EXISTING



2 JAMB - HOLLOW METAL DOOR
3/4"=1'-0"
HOLLOW METAL DOOR, FRAME AND TRANSOM TO BE PAINTED TO MATCH EXISTING



1 THRESHOLD - HOLLOW METAL DOOR
3/4"=1'-0"
HOLLOW METAL DOOR, FRAME AND TRANSOM TO BE PAINTED TO MATCH EXISTING

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project: 1711.00
drawn by: JKB
scale: AS NOTED

sheet:
DOOR &
FRAME DETAILS,
WALL SECTION

Restroom Building

Eisenhower Park
Restroom Building
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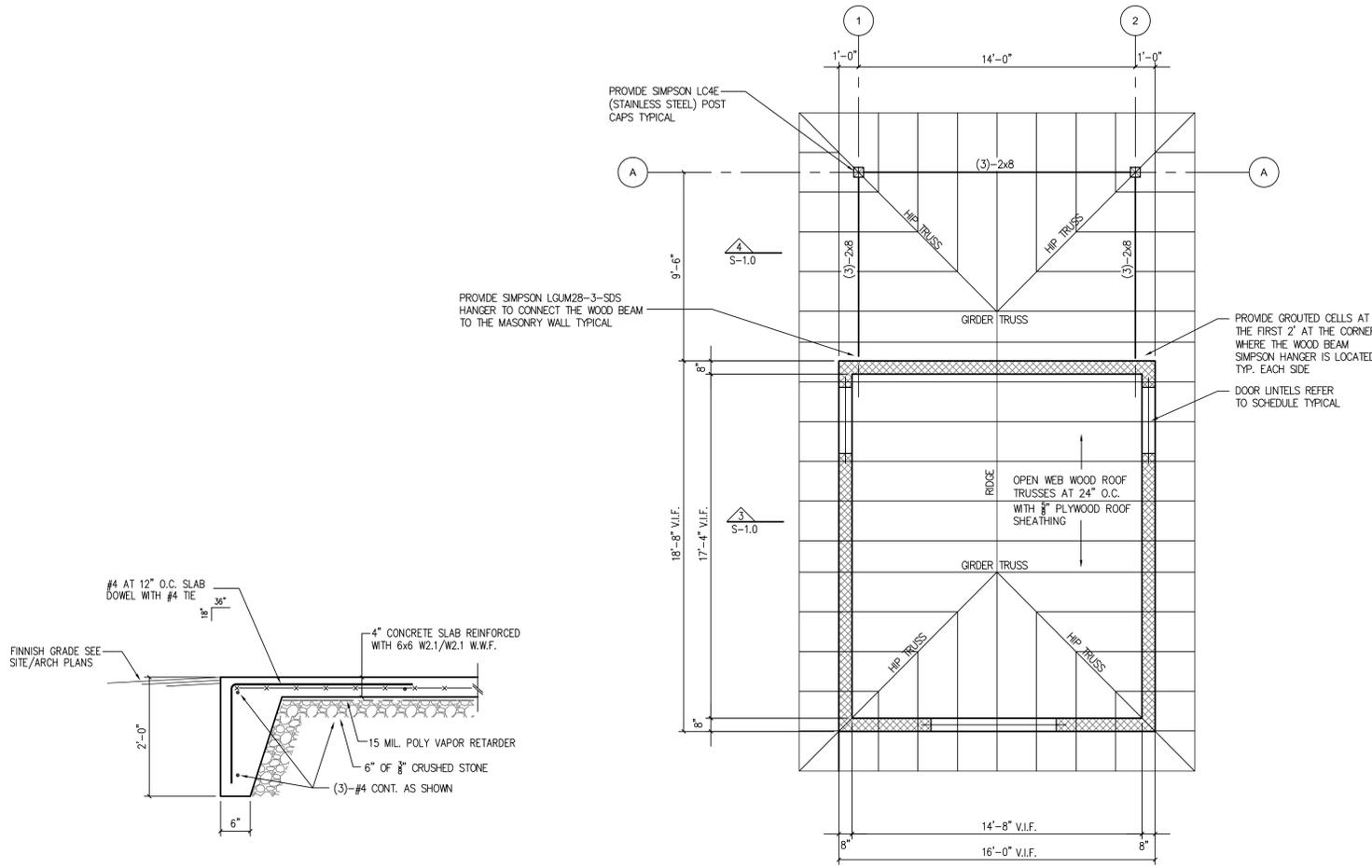
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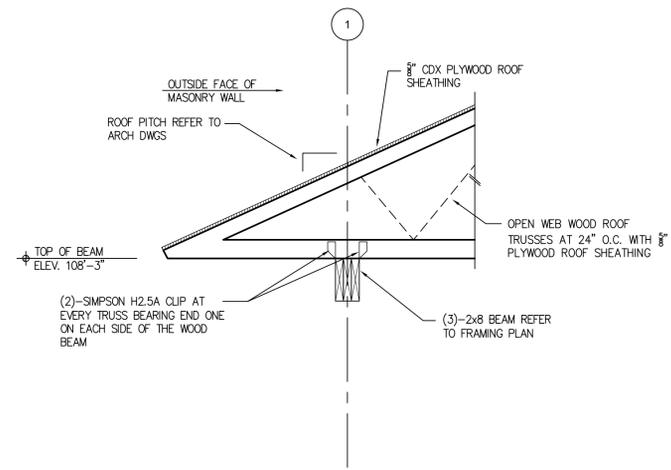
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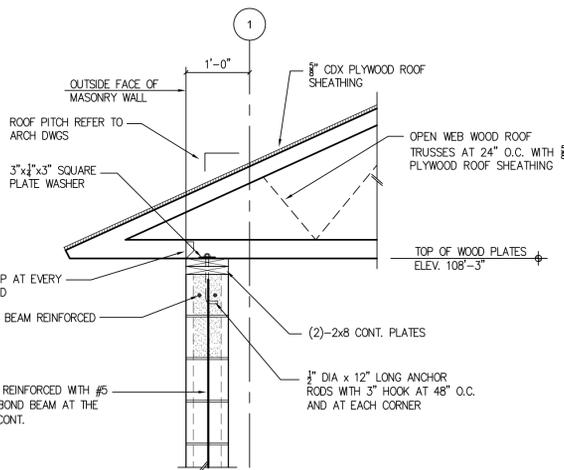
SECTION 5
3/4"=1'-0" S-1.0

ROOF FRAMING PLAN 2
1/4"=1'-0" S-1.0

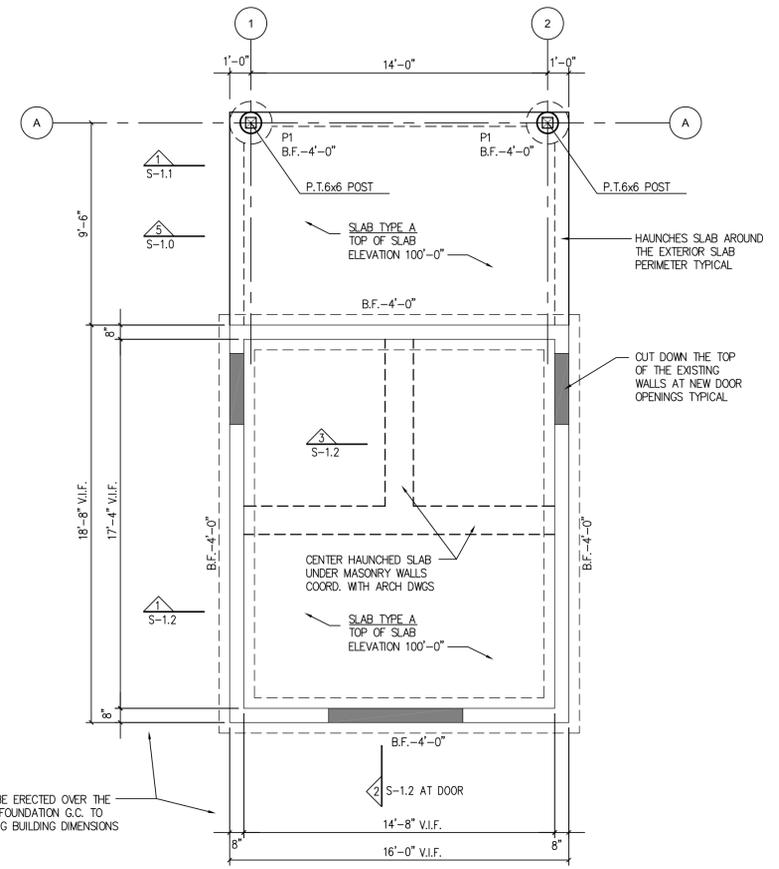
- ROOF FRAMING NOTES:
1. ROOF SHEATHING TO BE 5/8" PLYWOOD OR HUBER ENGINEERING ADVANTECH COMPOSITE PLYWOOD WITH SIMPSON H CLIPS AT PANEL EDGES NAILED TO SUPPORTING WOOD TRUSS MEMBERS.
 2. ALL EXTERIOR WALLS: ALL PLYWOOD PANEL JOISTS TO BE BLOCKED.
 3. PROVIDE SIMPSON H CLIPS FOR ROOF SHEATHING PANEL EDGES.
 4. REFER TO HEADER AND WOOD POST SCHEDULES FOR ANY SIZES NOT SPECIFICALLY SHOWN ON THE PLANS.



SECTION 4
3/4"=1'-0" S-1.0



SECTION 3
3/4"=1'-0" S-1.0



SECTION 1
3/4"=1'-0" S-1.0

FOUNDATION PLAN 1
1/4"=1'-0" S-1.0

- FOUNDATION PLAN NOTES:
1. TOP OF CONCRETE FLOOR SLAB ELEVATION = 100'-0"
 2. FxX INDICATES CONCRETE FOOTING, REFER TO SCHEDULE ON S1
 3. Px INDICATES CONCRETE PIER, REFER TO SCHEDULE ON S1
 4. T.W. INDICATES TOP OF FOUNDATION WALL ELEVATION
 5. B.F. INDICATES BOTTOM OF FOOTING ELEVATION
 6. T.S. INDICATES TOP OF CONCRETE WALL SHELF ELEVATION
 7. S.F. INDICATES FOOTING STEP
 8. S.C. INDICATES SLAB SAW CUT, TO BE INSTALLED WITHIN 8 HOURS OF INITIAL CONCRETE PLACEMENT.
 9. G.C. IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY AND ALL UNDERGROUND UTILITIES EVEN IF THESE UTILITIES ARE NOT INDICATED ON THESE PLANS. COORDINATE WITH CALL BEFORE YOU DIG AND THE SITE/CIVIL DRAWINGS.

PIER SCHEDULE			
DESIGNATION	PLAN DIMENSION	REINFORCING	TYPE
P1	14" DIA WITH BF28 BIGFOOT FOOTING	LONGITUDINAL REINFORCING: 8 - #4 TIES: #3 AT 12" O.C.	1

CONCRETE FOR PIERS TO HAVE A 3500 PSI COMPRESSIVE STRENGTH REINFORCING TO BE GRADE Fy = 60 KSI

TYPE 1
ROUND PIER LAYOUT 1

TYPE 2
SQUARE PIER LAYOUT 2

TYPE 3
RECTANGULAR PIER LAYOUT 3

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sheet:
FOUNDATION PLAN
ROOF FRAMING PLAN
DETAILS & NOTES

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GENERAL NOTES

ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL: 1.5 TONS/SF PSF ASSUMED

- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY.
- LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS. WHETHER SHOWN OR NOT ON STRUCTURAL DRAWINGS, CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.
- MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

FOUNDATIONS

- BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).
- ALL FOOTINGS ARE TO REST ON UNDISTURBED NATURAL SOIL, AS DEFINED IN THE SPECIFICATIONS, OR CONTROLLED COMPACTED FILL, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.
- IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EVAGUATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.
- ALL SOIL SURROUNDINGS AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.
- FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0".
- WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.
- PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.
- EXISTING ON-SITE EXCAVATION MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS, SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES.
- CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318-95).
- WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEVED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS BELOW GRADE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK OR CONCRETE MASONRY BLOCK SHELF ELEVATIONS IN THE FOUNDATION WALLS.
- FOUNDATION DESIGN SITE PREPARATION:
THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE CONTROLLED FILL COMPACTED TO AT LEAST 95% OF MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

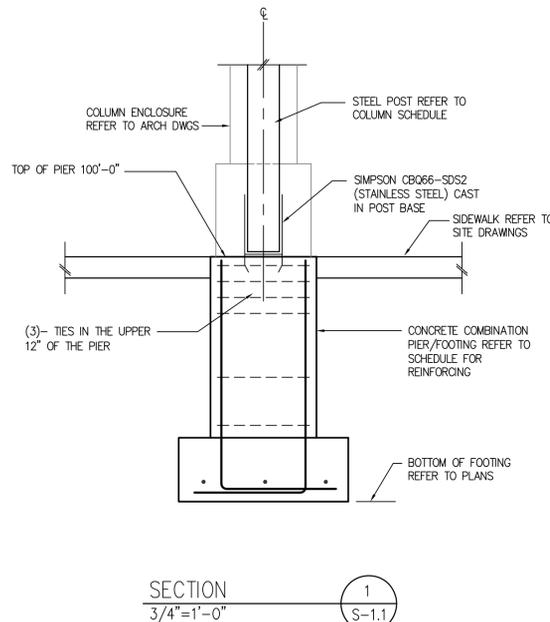
CONCRETE

MATERIALS:

CONCRETE SHALL DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	STRENGTH (PSI)
FOUNDATIONS	3500 WITH AIR, W/C RATIO .52 OR LOWER
WALLS	3500 WITH AIR, W/C RATIO .52 OR LOWER
INTERIOR SLABS ON GRADE	3500 NO AIR W/C RATIO .48 OR LOWER
EXTERIOR SLAB ON GRADE	5000 WITH AIR W/C RATIO .48 OR LOWER

- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- REINFORCING STEEL SHALL BE 60,000 PSI YIELD.
- NO TACK WELDING OF REINFORCING WILL BE PERMITTED.
- UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-02.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM-185.
- WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.
- WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.
- NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION.
- CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL AT SUPPORTED ELEVATED SLABS, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.
- ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318.
- ALL INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING DOWELS. SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.
- PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT MANUFACTURER PLUS A CLASS "B" LAP SPLICE FOR THE SIZE OF BAR.
- PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.
- ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.
- CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING, PROVIDE CLASS "B" SPLICE.
- SEE ARCHITECTURAL, MECHANICAL AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.
- THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATE AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.
- ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).
- ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.
- PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE NOTED.
- PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:
FOOTINGS (AGAINST EARTH) 3"
COLUMNS AND PIERS (VERTICAL REINFORCING) 2"
WALLS, INTERIOR FACE 3/4"
WALLS, EXTERIOR FACE (#5 AND SMALLER) 1 1/2"
WALLS, EXTERIOR FACE (#6 AND LARGER) 2"
SLABS (INTERIOR) 3/4"
SLABS (EXTERIOR) 1 1/2"
SLABS ON GRADE (W.W.F.) 1 3/4" THK. FROM TOP SURFACE
- PROVIDE 2-#4 BARS IN TOP OF ALL CONCRETE BEAMS WITH STIRRUPS THAT DO NOT HAVE ANY OTHER TOP STEEL SPECIFIED.
- PROVIDE NO OPENINGS IN CONCRETE BEAMS UNLESS ON THE STRUCTURAL DRAWINGS.
- NO SLEEVES, HOLES OR INSERTS SHALL BE PLACED IN SLABS WITHIN 2'-0" OF THE EDGE OF COLUMNS, OR ANYWHERE IN BEAMS, COLUMNS OR JOISTS WITHOUT APPROVAL OF THE ARCHITECT.
- PROVIDE LENGTH OF BEARING ON MASONRY WALLS AS FOLLOWS, UNLESS NOTED OTHERWISE:
REINFORCED CONCRETE BEAMS: 8 INCHES
SOLID CONCRETE SLABS: 4 INCHES
- CONCRETE COLUMNS SHALL BE PLACED AT LEAST TWO HOURS IN ADVANCE OF BEAMS, JOISTS AND SLABS.
- JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THERE SHALL BE NO HORIZONTAL JOINTS IN BEAMS OR SUSPENDED SLABS.
- PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE NOTED:
1-#5 AT EACH FACE OF EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENINGS.
1-#5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.
- PROVIDE REBAR SHOP DRAWINGS THAT INDICATE ALL FOOTING, CONCRETE WALL, SLAB AND MASONRY WALLS, PIER AND REINFORCING. PROVIDE PLAN SHEETS AND WALL SECTIONS. LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS TO BE SHOWN ALSO.



WOOD

- 2x CONVENTIONAL LUMBER TO BE DOUGLAS FIR LARCH WITH THE FOLLOWING MATERIAL PROPERTIES
Fb=1100 PSI, Fv=180 PSI, MODULUS OF ELASTICITY E=1.5*10⁶ PSI.
LVL (MICROLAM OR PSL (POST)
Fb=3100 PSI, Fv=235 PSI, MODULUS OF ELASTICITY E=2.0*10⁶ PSI
TJ'S TO BE BOISE ENGINEERED WOOD PRODUCTS (OR APPROVED ENGINEERED EQUAL)
- REFER TO WOOD POST SCHEDULE FOR SPECIFIC INFORMATION REGARDING WOOD POSTS.
- ROOF SHEATHING TO BE 3/4", FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE "HUBER ENGINEERED WOOD, ADVANTEC PLYWOOD" SCREWED AND GLUED TO THE SUPPORTING WOOD JOISTS.
- PROVIDE PRODUCT SUBMITTALS FOR THE WOOD PRODUCTS THAT WILL BE SUPPLIED ON THE PROJECT. OTHER WOOD PRODUCT MANUFACTURERS CAN BE USED PROVIDED THE MATERIAL AND SECTION PROPERTIES MATCH WHAT IS SPECIFIED ABOVE AND FOR WHAT IS SPECIFIED ON THE FRAMING PLANS AND DETAILS.
- WHERE APPLICABLE PROVIDE FASTENERS, HARDWARE, AND HANGERS THAT ARE RESISTANT TO CORROSION WHEN USED IN CONJUNCTION WITH PRESSURE TREATED LUMBER.
- WOOD TRUSS SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

DESIGN DATA / DESIGN LOADS

LOADING	LIVE LOAD	SLAB & DECK	FRAMING	FINISH	CEILING	M.E.P.	MISC.	TOTAL
ROOF	30 PSF	2 PSF	6 PSF ^C	12 PSF	3 PSF	5 PSF ^B	2 PSF	60 PSF

LOADING NOTES:

- SNOW LOADS INCREASED AS REQUIRED IN SNOW DRIFT REGIONS AS DESCRIBED IN THE STATE OF CONNECTICUT BUILDING CODE
- LOCAL DEAD LOAD INCREASES AS REQUIRED FOR ROOF TOP AND HUNG MECHANICAL UNITS.
- INPUT AS ZERO FOR COMPUTER ANALYSIS PROGRAMS THAT ACCOUNT FOR SELF DEAD WEIGHTS OF MEMBERS

DESIGN CRITERIA

ROOF SNOW LOAD DATA

GROUND SNOW LOAD	P _g = 30 psf
FLAT ROOF SNOW LOAD	P _f = 30 psf
SNOW EXPOSURE FACTOR	C _e = 0.9
IMPORTANCE FACTOR	I _s = 1.0
THERMAL FACTOR	C _t = 1.2

WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED	V _{ult} = 125 MPH
NOMINAL DESIGN WIND SPEED	V _{ref} = 97 MPH
WIND IMPORTANCE FACTOR	I _w = 1.00
EXPOSURE CATEGORY	EXPOSURE B
INTERNAL PRESSURE COEFFICIENT	G _{Cpi} = +/-0.18
BUILDING CATEGORY	II

EARTHQUAKE DESIGN DATA

BUILDING CATEGORY II	
SEISMIC OCCUPANCY IMPORTANCE FACTOR, I = 1.00	
SEISMIC USE GROUP I	
SEISMIC SITE CLASSIFICATION = D ASSUMED	
SEISMIC DESIGN CATEGORY = B	

SITE COORDINATES:	LATITUDE	41.7620°
	LONGITUDE	-72.7420°

SEISMIC LOAD FACTORS	S _s = .181	S ₁ = 0.064
	F _a = 1.6	F _v = 2.4
	S _w = 0.292	S _{w1} = 0.154
	S _{ps} = 0.195	S _{ps1} = 0.102

RESPONSE MODIFICATION COEFFICIENT, R = 2
BASED ON A LATERAL-FORCE-RESISTING SYSTEM CONSISTING OF REINFORCED MASONRY BEARING SHEAR WALLS
SEISMIC DESIGN BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE GIVEN ASCE 7-10

* GROUND SNOW LOAD, BASIC WIND SPEED AND SEISMIC LOAD FACTORS TAKEN FROM THE TABULATED VALUES LISTED IN APPENDIX N OF THE 2016 CONNECTICUT BUILDING CODE SUPPLEMENT FOR THE TOWN OF WEST HARTFORD CONNECTICUT.

issues + revisions:

no.	date	issued
1	02.03.20	BIDDING
2		
3		
4		
5		
6		
7		
8		

project: 1711.00
drawn by: DJT
scale: AS NOTED

sheet:
GENERAL NOTES
SECTIONS & DETAILS

Restroom Building

Eisenhower Park
Restroom Building
33 Sheep Hill Road
West Hartford, CT 06117

consultants

bostwick

ARCHITECTS, L.L.C.
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architecture + interior design + environmental design
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consultants

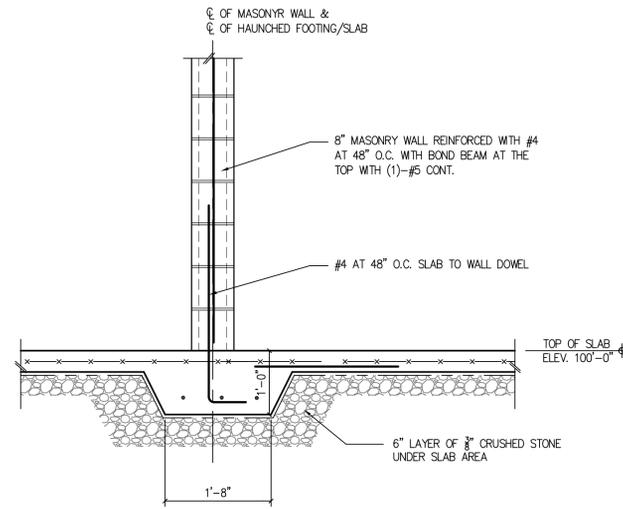
STRUCTURAL:

Toce Structural Engineering LLC

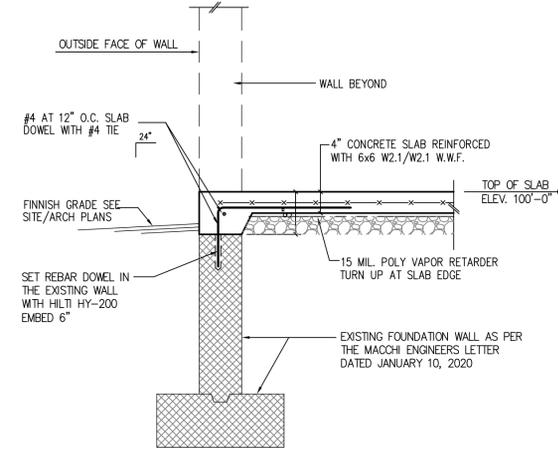
1755 Meriden Waterbury Turnpike
Unit 6, P.O. Box 365
Middale, CT 06467-0365
T: 860-863-9978 F: 860-426-3174

MECHANICAL/ELECTRICAL:

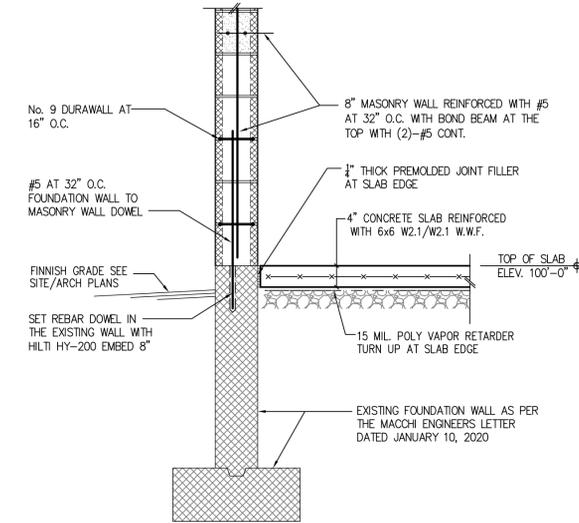
RZ Design Associates, Inc.
750 Old Main Street
Rocky Hill, CT 06067



SECTION 3
3/4"=1'-0"



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



SECTION 1
3/4"=1'-0"

MASONRY NOTES

- THE MINIMUM NET COMPRESSIVE STRENGTH OF THE MASONRY UNITS SHALL BE THE FOLLOWING:
PERIMETER LOAD BEARING WALLS: $F'_m = 1500$ PSI
- ALL MASONRY WALLS SHALL USE NO 9 DUR-O-WALL OR ENGINEERED EQUAL HORIZONTAL JOINT REINFORCING SPACED AT 16" O.C. VERTICALLY.
- ALL MORTAR SHALL CONFORM WITH ASTM C270
- CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530-02.
- GROUT STRENGTH (28 DAY): 2000 PSI MINIMUM

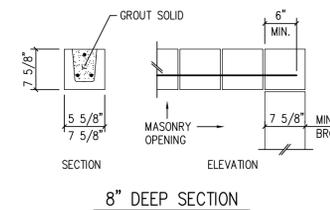
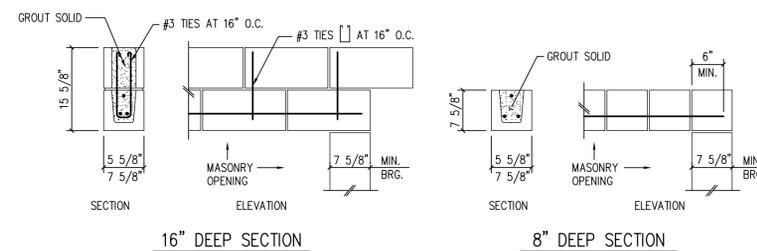
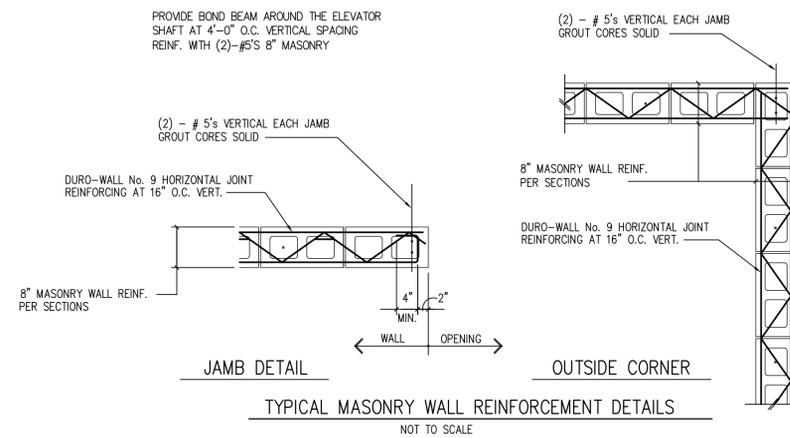
REINFORCED MASONRY LINTELS SCHEDULE

MASONRY OPENING	LINTEL SECTION	REINFORCING
UP TO 3'-4"	8" x 8"	2 # 3
3'-4" TO 6'-0"	8" x 8"	3 # 4
6'-0" TO 8'-0"	8" x 16"	3 # 5
UP TO 3'-4"	6" x 8"	1 # 4
3'-4" TO 6'-0"	6" x 8"	2 # 4

ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTED ON THE DRAWINGS
MASONRY BOND BEAM WIDTHS TO MATCH MASONRY WALL WIDTHS

LINTEL SCHEDULE

MASONRY OPENING	SIZE
TYPICAL	
UP TO 3'-4"	(1) ANGLE - 4" VERT. x 3 1/2" HORIZ. x 3/8" FOR EACH 4" OF MASONRY THICKNESS
3'-5" TO 6'-0"	ONE ANGLE - 5" VERT. x 3 1/2" HORIZ. x 5/16" FOR EACH 4" OF MASONRY THICKNESS
6'-1" TO 8'-0"	ONE ANGLE - 6" VERT. x 3 1/2" HORIZ. x 5/16" FOR EACH 4" OF MASONRY THICKNESS
8'-1" TO 12'-0"	W 8 x 18 + 3/8" x 13" PLATE EQ $\frac{1}{4}$ 3-12 ALT.
OVER 12'-1"	W 12 x 26 + 3/8" x 13" PLATE EQ
6" MASONRY PARTITIONS	
UP TO 3'-4"	WT 4 x 9
3'-4" TO 6'-0"	WT 4 x 10.5
6'-0" TO 8'-0"	WT 7 x 13



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Milford, CT 06467-0365

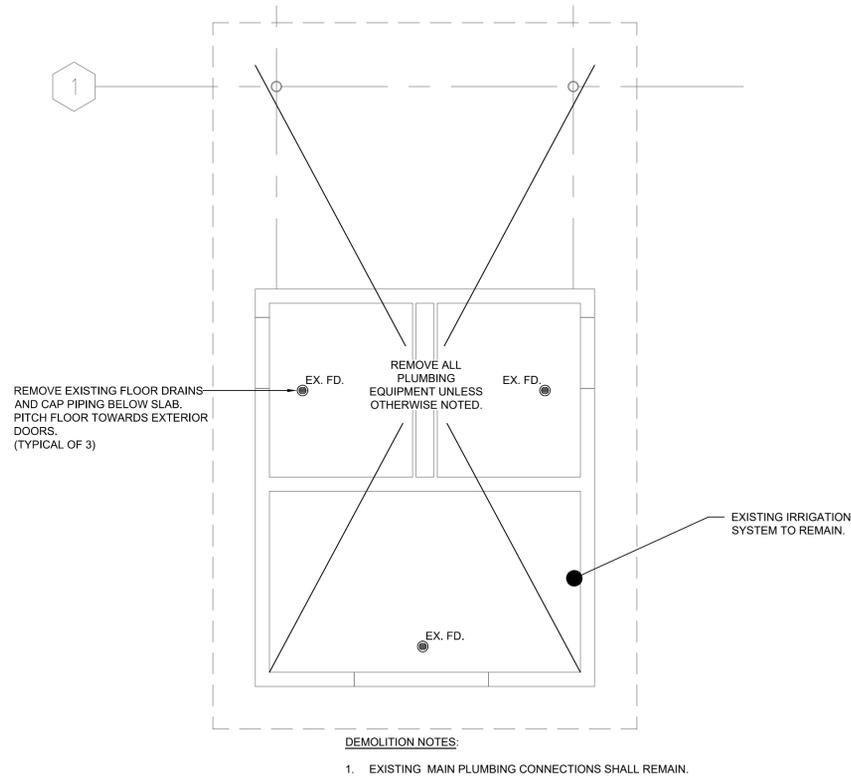
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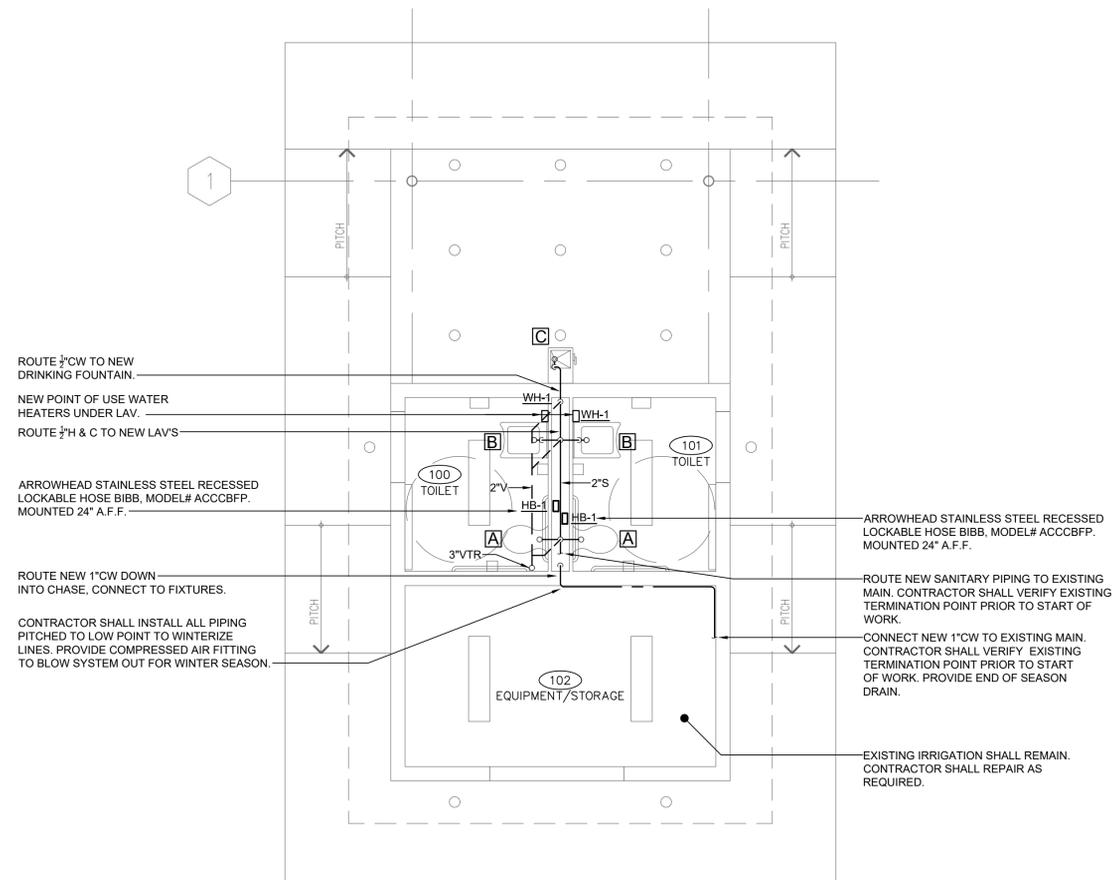
RZ Design Associates, Inc.

750 Old Main Street

Rocky Hill, CT 06067



1 DEMOLITION PLAN
SCALE: 1/4"=1'-0"



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

PLUMBING SPECIFICATIONS

GENERAL CONDITIONS OF THE CONTRACT
IT IS THE INTENT OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS.

DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. DRAWINGS INDICATE A GENERAL ARRANGEMENT OF WORK ONLY.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED.

CONSULT ARCHITECTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

COORDINATION
CONTRACTOR IS REQUIRED TO OBTAIN COMPLETE SETS OF THE CONTRACT DOCUMENTS FOR COORDINATION WITH ALL OTHER TRADES.

PIPE SEALS AND FIRE-STOPS
SEAL ALL NEW PIPING AND DUCTWORK PASSING THROUGH FIRE AND/OR SMOKE RATED PARTITIONS, WALLS AND FLOORS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL EQUIVALENT TO THE RATING OF THE WALL, PARTITION OR FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR COMPATIBILITY WITH WALL AND FLOOR CONSTRUCTION.

CLEANING AND PROTECTION AGAINST FOREIGN MATTER
THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. CAP EXPOSED PIPING AND COVER FLOOR DRAINS TO INSURE ADEQUATE PROTECTION AGAINST THE ENTRANCE OF FOREIGN MATTER.

AT COMPLETION OF THE PROJECT, ALL EQUIPMENT, FIXTURES, ETC. SHALL BE CLEANED.

PLUMBING PIPING INSULATION
PROVIDE 1" GLASS FIBER INSULATION FOR ALL NEW COPPER PIPING (HOT AND COLD WATER), INCLUDES INSULATION FOR FITTINGS AND VALVES. INSULATION TO BE AS MANUFACTURED BY KNAUF, MANVILLE, OWENS-CORNING OR CERTAIN-TEED.

NEW PLUMBING PIPING
PIPING MATERIAL SHALL BE AS FOLLOWS:

SANITARY WASTE AND VENT PIPING ABOVE AND BELOW FLOOR SLAB SCHEDULE 40 PVC, GLUED LEAK PROOF JOINTS.

WATER PIPING - PEX - PLASTIC PIPE WITH PRESS FIT CONNECTIONS.

BALL VALVES SHALL BE BRONZE, TWO PIECE, FULL PORT, EXTENDED LEVER HANDLE FOR INSULATION, CLASS 150-400 PSI WOG, AS MANUFACTURED BY MILWAUKEE, NIBCO OR APOLLO.

PLUMBING EQUIPMENT AND FIXTURES
FOR ALL FIXTURES, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS, AS REQUIRED BY CODE, AND IN COMPLIANCE WITH CONDITIONS FOR CERTIFICATION (IF ANY). RETAIN ALL INFORMATION, MANUALS AND PARTS DIAGRAMS PACKAGED WITH THE UNITS.

PLUMBING FIXTURES SHALL BE INSTALLED WITH TRIM, INCLUDING BUT NOT LIMITED TO, FAUCETS, CARRIERS, WATER SUPPLIES, SUPPLY STOPS, TRAPS, TAILPIECES, HARDWARE, HANGERS/SUPPORTS, AND FASTENING DEVICES.

FOR ALL EXPOSED PIPING TO FIXTURES, PROVIDE CHROME PLATED PIPES, ESCUTCHEONS AT WALLS, SUPPLY TUBES AND SUPPLY STOPS. DRAIN PIPING SHALL BE MINIMUM 17 GA, CHROME PLATED CAST BRASS, P-TRAPS SHALL HAVE CLEANOUT PLUGS.

SEAL FIXTURES TO WALLS AND FLOOR WITH APPROVED SILICONE SEALANT, COLOR TO MATCH FIXTURE COLOR OR CLEAR.

REPAIR OR REPLACE ANY MALFUNCTIONING FIXTURES AND RETEST.

UPON COMPLETION OF INSTALLATION OF EQUIPMENT OR FIXTURES, THOROUGHLY CLEAN ALL EXPOSED SURFACES, TRIM AND PIPING, FLUSH STRAINERS AND VERIFY FINAL OPERATION.

WATER HEATER SCHEDULE

TAG	LOCATION	MFR	MODEL	TEMP RISE (0.5 GPM)	TURN ON (GPM)	POWER				WIDTH	HEIGHT	REMARKS
						V	PH	AMPS	KW			
WH-1	UNDER LAV	EEMAX	EX2412	33°	0.3	208	1	20	2.4	5.25"	9.67"	

PLUMBING FIXTURE SCHEDULE

ALL FIXTURES TO BE APPROVED BY PLUMBING ENGINEER, CONSTRUCTION MANAGER & ARCHITECT BEFORE FIXTURE IS INSTALLED

SYMBOL	FIXTURE TYPE	MANUFACTURER MODEL NUMBER	PIPE SIZES				DESCRIPTION
			HOT (IN)	COLD (IN)	SOIL OR WASTE (IN)	VENT (IN)	
A	ADA WATER CLOSET WALL MOUNTED	AMERICAN STANDARD "HADERA" #2294.011EC	-	1"	4	2	WALL MOUNTED, "AFWALL FLOWISE ADA BOWL, 3.5GPF, 16 1/2" RIM HEIGHT, PERMANENT EVERCLEAN, PROVIDE AMERICAN STANDARD #5905.100 EXTRA HEAVY DUTY OPEN FRONT LESS COVER SEAT. PROVIDE SLOAN "REGAL 111" EXPOSED MANUAL WATER CLOSET FLUSH VALVE. CONTRACTOR TO PROVIDE HANGER AND ALL REQUIRED HARDWARE FOR INSTALLATION.
B	ADA LAVATORY WALL HUNG	AMERICAN STANDARD #9141.011	1/2	1/2	1-1/2	1-1/2	20"x27" LAVATORY, FRONT OVERFLOW, COLOR WHITE, DRAIN ASSEMBLY. INCLUDE DRAIN ASSEMBLY BRAIDED SUPPLY HOSES, TRIBRO PIPE COVERS. INCLUDE CHICAGO SERIES 131 MIXING VALVE MOUNTED UNDER EACH FIXTURE. INCLUDE CHICAGO DECK MOUNTED 4" FIXED CENTERS SINGLE SUPPLY METERING FAUCET MODEL #857-665P/SHABCP.
C	ADA DRINKING FOUNTAIN WALL HUNG	ELKAY #9141.011	-	1/2	1-1/2	1-1/2	OUTDOOR STONE WALL MOUNT, NON-FILTERED, NON-REFRIGERATED FREEZE RESISTANT DRINKING FOUNTAIN. FURNISHED WITH VANDAL-RESISTANT BUBBLER, MECHANICAL FRONT BUBBLER BUTTON, LEAD FREE DESIGN.

issues + revisions:

no.	date	issued
1	02.06.20	BIDDING
2		
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8		

project: 1711.00

drawn by: RJ
scale: AS NOTED

sheet:
PLUMBING PLANS,

CADD INFORMATION VIEW:
FILE NAME:
DATE AND TIME PLOTTED:
PLOTTED BY:

Restroom Building

Eisenhower Park
Restroom Building
33 Sheep Hill Road
West Hartford, CT 06117

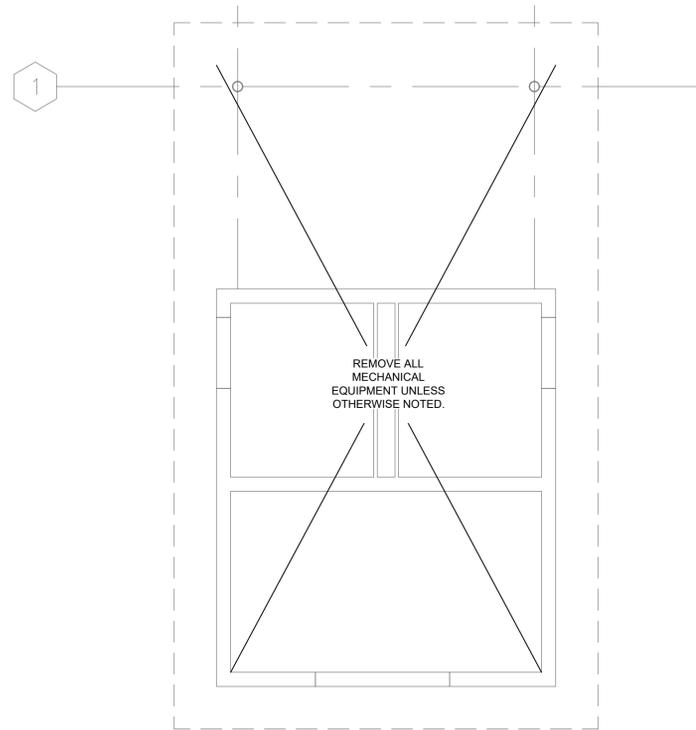
consultants

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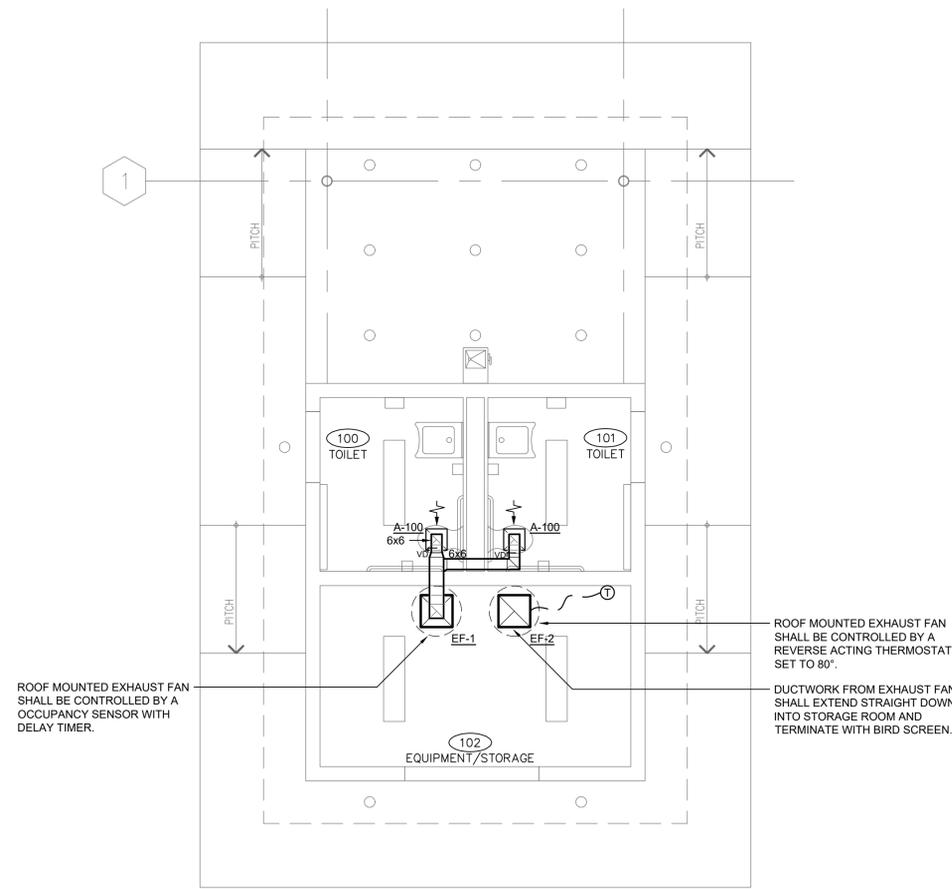
consultants

STRUCTURAL:
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MECHANICAL/ELECTRICAL:
RZ Design Associates, Inc.
750 Old Main Street
Rocky Hill, CT 06067



1 DEMOLITION PLAN
SCALE: 1/4"=1'-0"



2 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

AIR DEVICE SCHEDULE									
MARK	MANUFACTURER	DUTY	TYPE	FACE SIZE	NECK SIZE	CFM	MAX T.P. (IN WG)	MODEL	FINISH
A	KRUEGER	RETURN	LAY-IN	12"x12"	AS NOTED	AS NOTED	0.10	SS80HZ	WHITE

FAN SCHEDULE									
TAG	MFR	MODEL NUMBER	TYPE	DRIVE	CFM	ESP (IN WC)	RPM	ELECTRICAL	MOTOR HP WATTS
EF-1	COOK	90C17DEC	EXHAUST	DIRECT	200	0.50	1391	115/1/60	37
EF-2	COOK	100C17DEC	EXHAUST	DIRECT	400	0.50	1432	115/1/60	80

NOTES:

- EF-1 CONTROLS TIED INTO OCCUPANCY SENSOR WITH A 30 MINUTE TIME DELAY.
- EF-2 WILL OPERATE ON A REVERSE ACTING THERMOSTAT SET TO 80° MAX AIR TEMPERATURE.

MECHANICAL GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK NOT EXACT EQUIPMENT LOCATIONS. CEILING SPACE IS LIMITED AND ALL CONTRACTOR MUST COORDINATE EQUIPMENT LOCATIONS BEFORE WORK BEGINS.
- FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO APPROVAL BY ARCHITECT.
- THE LOCATIONS OF ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE COORDINATED WITH THE REFLECTED CEILING PLANS.
- ALL DUCTWORK ELBOWS AND TEES ARE TO BE FULL RADIUS OR MITERED WITH TURNING VANES.
- ALL DUCT, PIPE AND CONDUIT PENETRATING FIRE WALLS, SMOKE PARTITIONS SHALL BE SEALED AROUND DUCT OR PIPE WITH AN APPROVED FIRE STOP MATERIAL.
- VOLUME DAMPERS (VD) SHALL BE INSTALLED ABOVE ACCESSIBLE CEILINGS.
- REFER TO DETAIL AND SCHEDULE DRAWINGS FOR ADDITIONAL VALVE, PIPING AND DUCTWORK REQUIREMENTS.
- ALL BRANCHES OFF OF MAIN DUCTS SHALL UTILIZE 45° DEGREE SHOE TYPE TAKE-OFFS.
- PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCT TAKE-OFFS TO SUPPLY DIFFUSERS UTILIZING BELL MOUTH TYPE OR 45° DEGREE SHOE TYPE TAKE-OFF FITTINGS.
- PROVIDE VOLUME DAMPER IN ALL HARD DUCT SUPPLY BRANCHES PRIOR TO LAST SUPPLY DIFFUSER IN DUCT.
- PROVIDE FLEXIBLE DUCT FITTING AT EXHAUST FAN TO ALLOW MOVEMENT BETWEEN EQUIPMENT AND DUCTWORK.
- IN GENERAL, DUCTWORK SHALL RUN HIGH, PIPING SHALL RUN BELOW TO AFFORD ACCESS TO VALVES AND TO ESTABLISH UNIFORMITY.
- REFER TO DIFFUSER, REGISTERS AND GRILLE (RGD) SCHEDULE FOR NECK SIZES UNLESS NOTED OTHERWISE.

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GENERAL

- WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
- ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
- PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACTS GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS.
- VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.
- SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
- EACH CONTRACTOR SHALL PROVIDE HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
- CONTRACTOR SHALL PROTECT NEW WORK, EXISTING WORK AND ADJACENT PROPERTY AGAINST WEATHER.
- CONTRACTOR SHALL PROTECT HIS WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED, SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR MUST CONFIRM ALL UTILITY COMPANY REQUIREMENTS AND CONNECTION POINTS IN FIELD PRIOR TO STARTING WORK.
- ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKERS.
- NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND OBTAIN A WRITTEN APPROVAL IDENTIFYING THE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
- DURING CONSTRUCTION THE CONTRACTOR MAY UNCOVER AN EXISTING CONDITION THAT WILL HAVE TO BE MODIFIED. ANY SUCH WORK WHICH COMES UNDER THE JURISDICTION OF THIS CONTRACTOR SHALL BE DONE BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER, AS THOUGH FULLY DETAILED ON PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
- CODES, PERMITS, STANDARDS AND REGULATIONS
-CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.), GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
-OBTAIN PERMITS AND PAY ALL FEES ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.
- WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

ALTERATION WORK AND DEMOLITION

- ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC., SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNERS APPROVAL.
- UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BYPASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
- NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK PIPING SYSTEMS UPON COMPLETION OF WORK.
- EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.
- ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
- ALL EXISTING EXPOSED, UNNECESSARY DUCTWORK AND PIPING NOT RELATE TO NEW WORK SHALL BE COMPLETELY REMOVED.
- RE-ROUTE OR REMOVE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

BASE EQUIPMENT, MATERIALS AND SUBSTATIONS.

- ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS AND UL LABELED.
- BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN SCHEDULES ON THE DRAWINGS. ALL OTHER MANUFACTURERS ARE CONSIDERED A SUBSTITUTION.
- THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. STATED IN THIS SPECIFICATIONS, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED, SHALL BE KNOWN AS A "STANDARD".
- ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.
- THE EQUIPMENT SCHEDULES ON THE DRAWINGS INDICATE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON. THE USE OF OTHER MANUFACTURERS' EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES THAT ENTAILS GENERAL TRADES, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC. REVISIONS IS THIS CONTRACTOR'S RESPONSIBILITY. ANY ADDITIONAL COST OF SUCH CHANGES SHALL

BE PAID BY THE CONTRACTOR SUBMITTING THE ACCEPTABLE ALTERNATES WHICH NECESSITATES CHANGES IN INSTALLING SUCH SUBMITTED ALTERNATE EQUIPMENT, EVEN THOUGH SUCH COSTS MAY BE PART OF ANOTHER DIVISION OF WORK.

- SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
- IF SUBSTITUTIONS ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS, SUBCONTRACTORS, ETC. AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE WITH THEM. ANY COSTS RESULTING FROM SUBSTITUTION, WHETHER BY THIS CONTRACTOR OR OTHERS, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE SUBSTITUTING CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.
- ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFIRM THESE REQUIREMENTS PRIOR TO STARTING WORK.

WARRANTY

- FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
- EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER, INCLUDING FIVE YEAR (5) COMPRESSOR EXTENDED WARRANTY ON NEW HVAC EQUIPMENT.
- REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

SHOP DRAWING SUBMITTALS

- SUBMIT SHOP DRAWINGS FOR MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO SHEET METAL, WITH ADEQUATE DETAILS AND SCALES TO CLEARLY SHOW CONSTRUCTION. INDICATE THE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON THE CONSTRUCTION DOCUMENTS.
- SHEET METAL DRAWINGS SHALL BE FULLY DIMENSIONED AND COORDINATED BASED ON FIELD VERIFIED BUILDING CLEARANCES AND ARCHITECTURAL CEILING LAYOUTS. INDICATE STRUCTURAL, LIGHTING, DUCTWORK AND PIPING AT ALL CRITICAL LOCATIONS.
- CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWING PRIOR TO SUBMITTAL FOR REVIEW. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE ENGINEER UNLESS THE CONTRACTOR'S APPROVAL IS NOTED. DO NOT START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.
- SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.
- WHERE SUBMITTALS VARY FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL CLEARLY INDICATE ON SUBMITTAL OR ACCOMPANYING DOCUMENTS THE NATURE AND REASON FOR THE VARIATIONS.
- EACH MANUFACTURER OR HIS REPRESENTATIVE MUST CHECK THE APPLICATION OF HIS EQUIPMENT AND CERTIFY AT TIME OF SHOP DRAWING SUBMITTAL THAT THE EQUIPMENT SPECIFIED HAS BEEN PROPERLY APPLIED AND CAN BE INSTALLED, SERVICED AND MAINTAINED WHERE INDICATED ON THE DRAWINGS. ADVISE ENGINEER IN WRITING WITH SUBMITTAL DRAWINGS OF ANY POTENTIAL PROBLEMS. THE MANUFACTURER SHALL BE RESPONSIBLE FOR ANY CHANGES THAT MIGHT BE NECESSARY BECAUSE OF PHYSICAL CHARACTERISTICS OF EQUIPMENT THAT HAVE NOT BEEN CALLED TO THE ENGINEER'S ATTENTION AT THE TIME OF SUBMITTAL.

RECORD DRAWINGS

- EACH CONTRACTOR OR SUBCONTRACTOR SHALL KEEP ONE (1) COMPLETE SET OF THE CONTRACT DRAWINGS ON THE JOB SITE ON WHICH HE SHALL REGULARLY RECORD ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT DRAWINGS MADE DURING CONSTRUCTION.
- THESE DRAWINGS SHALL RECORD THE INSTALLED LOCATION OF ALL CONCEALED EQUIPMENT, PIPING, ELECTRIC SERVICE, SEWERS, WASTES, VENTS, DUCTS, CONDUIT, ETC. BY MEASURED DIMENSIONS TO EACH SUCH ITEM FROM COLUMN CENTERLINES OR READILY IDENTIFIABLE AND ACCESSIBLE WALLS OR CORNERS OF THE BUILDING. PLANS ALSO SHALL SHOW INVERT ELEVATION OF SEWERS AND TOP ELEVATION OF ALL OTHER BELOW-GRADE LINES.
- RECORD DRAWINGS SHALL BE KEPT CLEAN AND UNDAMAGED AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN RECORDING DEVIATIONS FROM WORKING DRAWINGS AND EXACT LOCATIONS OF CONCEALED WORK.
- AFTER THE PROJECT IS COMPLETED, THESE DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS ACTUALLY CONSTRUCTED.

AS BUILT DRAWINGS

- PROVIDE A COMPLETE SET OF AS -BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEER'S COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND THE WORK INSTALLED.
- EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
- SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

DUCTWORK

- DUCTWORK SHALL BE FABRICATED FROM HOT-DIPPED GALVANIZED STEEL SHEET CONFORMING TO ASTM A653, WITH G60 COATING.
- FABRICATE, SUPPORT, INSTALL AND SEAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING AND SEALING FOR OPERATING PRESSURES INDICATED.
- JOINT SEALERS AND SEALANTS SHALL BE NON-HARDENING, WATER, MILDEW AND MOLD RESISTANT, FLAME SPREAD OF 0, SMOKE DEVELOPED OF 0 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

- DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

INSULATION

A. GENERAL

- FURNISH ALL MATERIAL, LABOR AND EQUIPMENT AS REQUIRED TO INSTALL COMPLETE PLUMBING AND HVAC INSULATION AS INDICATED ON MECHANICAL DRAWINGS AND IN THESE SPECIFICATIONS.
- INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PIPE INSULATION SHALL BE RIGID FIBERGLASS WITH PVC FITTING COVERS, EQUAL TO JOHN'S-MANVILLE, KNAUFF OR CERTAINTeed. MINIMUM INSULATION THICKNESS SHALL BE IN ACCORDANCE WITH THE 2009 IECC OR AS OTHERWISE INDICATED.

REGISTERS, GRILLS AND DIFFUSERS

- REGISTERS, GRILLS AND DIFFUSERS SHALL BE AS SCHEDULED ON THE DRAWINGS.
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PROVIDE BALANCING DAMPERS ON ALL BRANCH DUCT TAKE-OFFS.

CADD INFORMATION VIEW-
FILE NAME-
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**MECHANICAL
SPECIFICATIONS**

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Panel: PNL-RR										Location: REST ROOM BLDG									
Amperage / Mains: 100 A										Mounting: Surface									
Voltage, Phase, Wire: 208/120V										Comments: NEMA 1 ENCLOSURE SOURCE LOCATED AT POOL BUILDING, BASEMENT UN MARKED PANEL									
AIC: 10k																			
#	AMP	POLES	LOAD DESCRIPTION	kVA	kVA	kVA	A	B	C	kVA	kVA	kVA	LOAD DESCRIPTION	AMP	POLES	#			
1	20	2	WH-1			1.2	2	2	1.2				WH-1	20	2	2			
3	20	1	EP-2			1.2							EP-1	20	1	6			
5	20	1	ASTRONOMIC TIME CLOCK			0.1			0.1				OUTDOOR RECEPTACLES	20	1	8			
7	20	1	INTERIOR LIGHTS	0.2		0.2	1		0.4			0.7	CALL FOR AID	20	1	10			
9	20	1	EQUIPMENT STORAGE RCPT			0.2							DOWN LIGHTS	20	1	12			
11	20	1	HAND DRYER			0.5	2		1.2			0.2	IRRIGATION PUMP	20	2	14			
13	20	1	SPARE						1				HAND DRYER	20	1	18			
15	20	1	SPARE						0.5				SPARE	20	1	20			
17	20	1	SPARE						0				SPARE	20	1	22			
19	20	1	SPARE						0				SPARE	20	1	24			
21	20	1	SPARE						0				SPARE	20	1	24			
23	20	1	SPARE						0				SPARE	20	1	24			
Connected (kVA):				0.2	0.2	3.2	5.0	4.2	0.5	5.8	0.7	0.2							
Demand* (kVA):				0.4	0.9	7.2													
Total Connected Load (kVA):				9.8	Total Connected Load (A):				27.1										
Total Demand Load* (kVA):				8.5	Total Demand* Load (A):				23.5										
connected load per Ø = (total load/3):				3.3	125% of Total Demand (A):				29.4										
demand load per Ø = (total load/3):				2.8															

* Demand Factor:
Lighting loads: 100%
Receptacle loads, 10kVA or less: 100%
Receptacle loads, over 10kVA: 50%
Miscellaneous loads: 80%

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS			VOLTS	MOUNTING	REMARKS
			LUMEN	WATT	TYPE			
A	KENALL_MILLENIUM STRETCH	MLHA1248RMWPP45127/65K8ATWDVLD,LEL9500	5129	46	LED	120	CEILING	FACTORY TUNED TO 4000K, DAMP LOCATION, 1m/W 111, SEE NOTE 1
B	KENALL_MILLENIUM	HADL6FFPAFW12L40K8MCSGRIG6DVM1NAT9500	1090	15	LED	120	RECESSED	4000K, CRI 80, IP67 RATED, 1/8" POLYCARBONATE LENS, SEE NOTE 1
C	KENALL_MILLENIUM	HADL6FFPAFW12L40K8MCSGRIG6DVM1,NAT,LEL,9500	1090	15	LED	120	RECESSED	4000K, CRI 80, IP67 RATED, 1/8" POLYCARBONATE LENS, SEE NOTE 1
OC	HUBBELL	OMNIDT500QT1 WITH POWER PACK			DUAL TECH	120	CEILING	
NOTES								
1. COORDINATE WITH ARCHITECT FOR EXACT FINISH								

ELECTRICAL LEGEND

N O T E : ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED EXTERIOR LIGHT FIXTURE		BRANCH CIRCUIT WIRING
	EMERGENCY RECESSED DOWNLIGHT FIXTURE - SUBLETTER INDICATES TYPE		BRANCH CIRCUIT FEEDER
	WALL MOUNTED LIGHT FIXTURE - SUBLETTER INDICATES TYPE		ELECTRICAL GROUND
	SURFACE MOUNTED LIGHT FIXTURE - SUBLETTER INDICATES TYPE		
	TYPICAL CEILING MOUNTED FLUORESCENT LIGHT FIXTURE - SUBLETTER INDICATES TYPE		ELECTRIC PANEL - 120/208V
	TYPICAL FLUORESCENT LIGHT FIXTURE WIRED FOR NORMAL AND EMERGENCY/24-HOUR EMERGENCY POWER BACK UP/NIGHT LIGHT/WALK-THRU CIRCUIT - SUBLETTER INDICATES TYPE		FLEXIBLE EQUIPMENT CONNECTION
	FLUORESCENT WALL MOUNTED FIXTURE - SUBLETTER INDICATES TYPE		FIXED/HARD-WIRED EQUIPMENT CONNECTION
	LINEAR FLUORESCENT FIXTURE - SUBLETTER INDICATES TYPE		PHOTOCELL
	SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS AS SHOWN, UNIV MOUNT		TIMECLOCK
	DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS AS SHOWN, UNIV MOUNT		CONTACTOR
	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS		SECURITY SYSTEM CAMERA
	EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS		SECURITY SYSTEM DOOR LOCK
	SINGLE POLE TOGGLE SWITCH - MOUNT AT 48" A.F.F.		SECURITY SYSTEM MOTION SENSOR
	THREE WAY TOGGLE SWITCH - MOUNT AT 48" A.F.F.		SECURITY SYSTEM CARD READER
	FOUR WAY TOGGLE SWITCH - MOUNT AT 48" A.F.F.		SECURITY SYSTEM DOOR CONTACT
	SINGLE POLE KEYED TOGGLE SWITCH - MOUNT AT 48" A.F.F. (HUBBELL HBL1221L OR EQUAL)		SECURITY SYSTEM KEY PAD
	THREE WAY KEYED TOGGLE SWITCH - MOUNT AT 48" A.F.F. (HUBBELL HBL1221L OR EQUAL)		SOUND SYSTEM SPEAKER
	FOUR WAY KEYED TOGGLE SWITCH - MOUNT AT 48" A.F.F. (HUBBELL HBL1221L OR EQUAL)		WIRELESS ACCESS POINT
	THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS		COMBINATION POWER/TEL/DATA POLE
	DIMMER SWITCH - MOUNT AT 48" A.F.F.		CLOCK
	PROJECTION SCREEN SWITCH - MOUNT AT 48" A.F.F.		INTERCOM STATION
	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH - MOUNT AT 48" A.F.F.		COMBINATION SPEAKER / CLOCK
	PAGING SPEAKER VOLUME CONTROL MOUNT AT 48" A.F.F.		
	DOORBELL BUZZER/CHIME - MOUNT AT 7'-0" A.F.F.	A	AMPERE
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR	A.F.F.	ABOVE FINISHED FLOOR
	EMERGENCY SHUTOFF PUSHBUTTON OPERATOR	A.F.G.	ABOVE FINISHED GRADE
		AHU	AIR HANDLING UNIT
	GROUNDING DUPLEX RECEPTACLE - MOUNT AT 18" A.F.F. U.N.O	C	CONDUIT
	GROUNDING DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER BACKSPLASH OR 42" A.F.F.	C/B	CIRCUIT BREAKER
	GROUNDING DUPLEX RECEPTACLE - MOUNTED AT CEILING	CHP	CONSOLE HEAT PUMP
	GROUNDING DUPLEX RECEPTACLE - GFI TYPE (WP = WEATHERPROOF)	CIR	CIRCUIT
	GROUNDING DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER	CR	CONTROL RELAY
	GROUNDING DUPLEX RECEPTACLE - STUB UP TO 24" AFF ON 1" (MIN) RGS CONDUIT	CUH	CABINET UNIT HEATER
	VERTICAL PLUG MOLD WITH OUTLETS AT 12" O.C. - 5' LONG - WIREMOLD CAT. No. 20GB512	DAC	DOOR ACCESS CONTROLLER
	GROUNDING GFI DUPLEX RECEPTACLE DEDICATED FOR MICROWAVE OVEN - VERIFY EXACT MOUNTING LOCATION	DFM	DATA FORCE MONITOR
	GROUNDING DOUBLE DUPLEX RECEPTACLE - MOUNT AT 18" A.F.F. U.N.O.	DHP	DUCTED HEAT PUMP
	GFI WEATHERPROOF DUPLEX RECEPTACLE MOUNTED UNDERSIDE OF EAVE FOR HOLIDAY LIGHTS	E	EXISTING TO REMAIN
	GROUNDING SIMPLEX RECEPTACLE - MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE	EBR	ELECTRIC BASEBOARD RADIATION
	GROUNDING GFI DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORT	EBU	EMERGENCY BATTERY UNIT
	RECESSED MOUNTED PANELBOARD	EF	EXHAUST FAN
	SURFACE MOUNTED PANELBOARD	EFV	ELECTRIC FLUSH VALVE
	FLOOR MOUNTED DEVICES AS LISTED ABOVE	EM	EMERGENCY POWERED
	TELEPHONE/DATA OUTLETS - WALL MOUNTED AT 18" AFF UNLESS NOTED - C = MOUNTED AT CEILING - W = 42" ABOVE FINISHED FLOOR, INCLUDE CAT 5e CABLE	EMT	ELECTRICAL METALLIC TUBING
	DATA OUTLET (WAP - WIRELESS ACCESS POINT) INCLUDE CAT 5e CABLE	ER	EXISTING TO REMAIN
	MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F.	EWG	ELECTRIC WATER COOLER
	HEAT DETECTOR	EWH	ELECTRIC WATER HEATER
	AREA SMOKE DETECTOR	FA	FIRE ALARM
	AREA COMBINATION SMOKE AND CO DETECTOR	FMC	FLEXIBLE METALLIC TUBING
	MAGNETIC DOOR HOLDER	FP	FOLDING PARTITION
	FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" AFF	GFI	GROUND FAULT INTERRUPTER
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F.	ICE	ICE MACHINE
	LIGHTING CONTROL RELAY	IG	ISOLATED GROUND
	DUCT SMOKE DETECTOR	JB	JUNCTION BOX
	FIRE ALARM ADDRESSABLE OUTPUT MODULE	MAH	MAKE-UP AIR UNIT
	FIRE ALARM ADDRESSABLE INPUT MODULE	MD	MOTORIZED DAMPER
	SPEAKER VOLUME CONTROL	MW	MICROWAVE
	SECURITY POE OUTLET INCLUDE CAT 5e CABLE	NL	NIGHT LIGHT
	FIRE ALARM CONTROL PANEL	NLE	NEW LOCATION OF EXISTING RELOCATED
	FIRE ALARM REMOTE ANNUNCIATOR PANEL	NR	NEW TO REPLACE EXISTING
	HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25 WIRED BY DIV. 26.	OHD	OVERHEAD DOOR ELECTRIC OPERATOR
	FIRE ALARM MONITOR MODULE TO BE FURNISHED DIV. 26.	PE	PRIMARY ELECTRIC SERVICE
	FIRE ALARM CONTROL MODULE TO BE FURNISHED BY DIV. 26.	PGFI	PERSONAL GROUND FAULT INTERRUPTER
	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F.	PVC	POLYVINYL CHLORIDE CONDUIT
	EMERGENCY "CALL-FOR-AID" SWITCH - MOUNT AT 48" A.F.F. WITH PULL CORD TO 6" A.F.F.	RAP	REMOTE ANNUNCIATOR PANEL
	EMERGENCY SHUT-OFF SWITCH - MOUNT AT 48" A.F.F. - M=MASTER - S = SLAVE	RE	RELOCATED EXISTING
	JUNCTION BOX	REF	REFRIGERATOR
	JUNCTION BOX WITH 120V POWER FOR TEMPERATURE CONTROLS	RGS	RIGID GALVANIZED STEEL CONDUIT
	JUNCTION BOX FOR CATV OUTLET WITH 1 1/4" CONDUIT TO CEILING.	RL	RELOCATE EXISTING
	INTERCOM STATION	RR	REMOVE AND REPLACE ON NEW SURFACE
	MOTOR	RTU	ROOFTOP UNIT
	NON-FUSED DISCONNECT SWITCH	SD	SMOKE DAMPER
	FUSED DISCONNECT SWITCH	SE	SECONDARY ELECTRIC SERVICE
	MAGNETIC MOTOR STARTER	T	TELEPHONE SERVICE
	COMBINATION DISCONNECT SWITCH/MAGNETIC MOTOR STARTER	TCP	TEMPERATURE CONTROL PANEL
	PAGING SYSTEM CEILING MOUNTED SPEAKER	TV	TELEVISION
	PAGING SYSTEM WALL SPEAKER	TX	TRANSFORMER
	FIRE ALARM CARBON MONOXIDE DETECTOR	UNO	UNLESS NOTED OTHERWISE
	FIRE ALARM REMOTE TEST SWITCH	WC	WATER COOLER
		WEF	WALL EXHAUST FAN
		WAP	WIRELESS ACCESS POINT
		WP	WEATHER PROOF

ELECTRICAL LEGEND NOTES:
1. ALL SYMBOLS MAY NOT BE USED.

CADD INFORMATION VIEW:
FILE NAME:
DATE AND TIME PLOTTED:
PLOTTED BY:

issues + revisions:

no.	date	issued
1	02.06.20	BIDDING
2		
3		
4		
5		
6		
7		
8		

project: 1711.00

drawn by: CM
scale: AS NOTED

sheet:
ELECTRICAL SCHEDULE

Restroom Building

Eisenhower Park
Restroom Building
33 Sheep Hill Road
West Hartford, CT 06117

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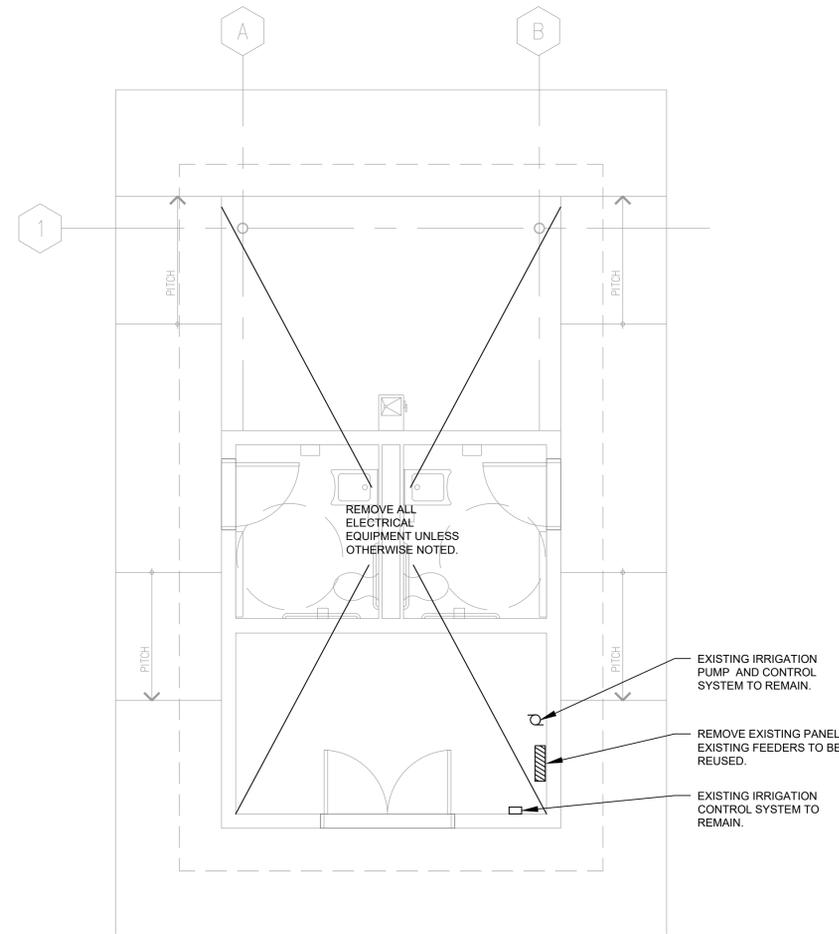
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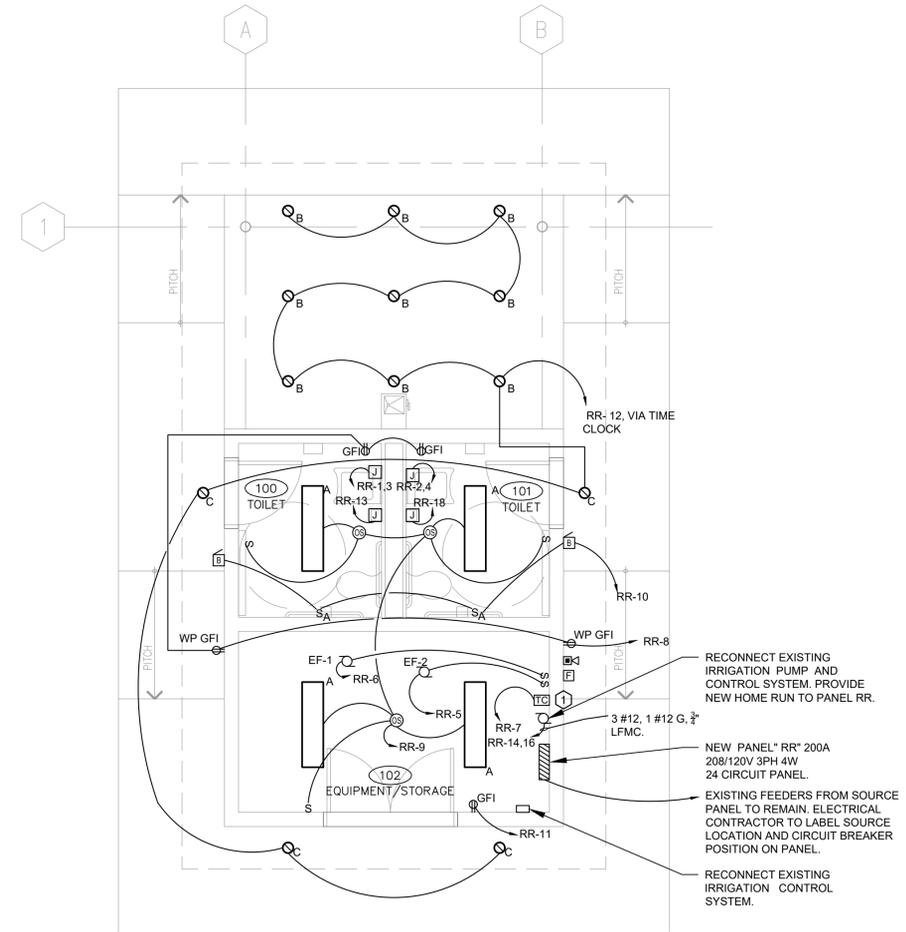
RZ Design Associates, Inc.
750 Old Main Street
Rocky Hill, CT 06067



DEMOLITION NOTES:

- EXISTING SOURCE FEEDERS FROM SOURCE PANEL TO REMAIN. EXISTING FEEDERS SHALL BE TESTED FOR GROUNDS AND SHORTS. PROVIDE ALTERNATE COST PROPOSAL TO REPLACE CONDUCTORS WITH 4#3/0, 1#6 GND, IN THE EXISTING 2" C.
- EXISTING IRRIGATION SYSTEM TO REMAIN, INCLUDING PUMP AND PUMP CONTROL SYSTEM. DISCONNECT BRANCH CIRCUIT BACK TO SOURCE PANEL. PROVIDE NEW FEEDER FROM NEW PANEL.
- REMOVE ALL ELECTRICAL DEVICES AND FIXTURES NOT IDENTIFIED TO REMAIN.
- REMOVE ALL BRANCH CIRCUITS BACK TO EXISTING PANEL.
- REMOVE EXISTING PANEL.

1 ELECTRICAL PLAN
E-1.0 SCALE: 1/4" = 1'-0"



Restroom Building

Eisenhower Park
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ELECTRICAL SPECIFICATIONS:

GENERAL:

THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CONNECTICUT STATE BUILDING CODE INCLUDING:

- 2016 INTERNATIONAL BUILDING CODE
- AMENDMENTS TO THE 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE
- 2014 NATIONAL ELECTRICAL CODE
- 2009 ANSI A117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR TO COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

THE INTENT OF THESE SPECIFICATIONS AND CONTRACT DRAWINGS IS TO PROVIDE COMPLETE INSTALLATION OF THE VARIOUS SYSTEMS DESCRIBED HEREIN AND INDICATED ON THE DRAWINGS. ANY LISTING OR INDICATION OF ITEMS FURNISHED OR WORK TO BE PERFORMED SHALL NOT BE COMPLETE IN ITSELF AND SHALL NOT LIMIT THE GENERAL REQUIREMENTS TO FURNISH AND INSTALL WORK, EQUIPMENT, ACCESSORIES, CONTROLS, ETC., TO COMPLETE THE CONTRACT IN A SUBSTANTIAL MANNER. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- SAFETY SWITCHES - HEAVY DUTY - FUSIBLE
- FUSES - TIME DELAY - BUSSMAN LPN-RK (250V)
FAST ACTING - BUSSMAN KTN-R (250V)
- DISCONNECTION AND COMPLETE REMOVAL OF LIGHTING AND EQUIPMENT NOT INTENDED FOR REUSE
- PROVISION OF ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS AND SUPPORTS
- BRANCH LIGHTING AND RECEPTACLE WIRING AND CONDUIT, COMPLETE WITH ALL CONNECTIONS
- PROVISION OF ALL OUTLET BOXES, WIRING DEVICES, PLATES, CONDUIT, CONDUIT FITTINGS, HANGERS, SUPPORTS, AND SUCH OTHER ITEMS REQUIRED AND INCIDENTAL FOR A COMPLETE INSTALLATION.
- PROVISION OF ALL DISCONNECT SWITCHES, MANUAL AND MAGNETIC MOTOR STARTERS, AS REQUIRED FOR ALL HVAC AND OTHER ELECTRICAL EQUIPMENT
- PROVISION OF POWER AND TEMPERATURE CONTROL WIRING TO HVAC AND PLUMBING EQUIPMENT SUCH AS AIR HANDLING UNITS, ROOFTOP HEATING/COOLING UNITS, EXHAUST FANS, COMPRESSORS, EVAPORATORS AND THE LIKE COMPLETE WITH ALL CONNECTIONS
- ALL HVAC AND EQUIPMENT WILL BE PROVIDED BY OTHERS FOR WIRING BY THIS ELECTRICAL CONTRACTOR EXCEPT AS NOTED.

PERMITS AND FEES:

- OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED BY LAW AND LOCAL INSPECTIONS AUTHORITIES TO PERFORM THE ELECTRICAL WORK SPECIFIED HEREIN

WIRING AND RACEWAY:

- THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT, RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
- ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT LEFT FOR HORIZONTAL MOUNTING.
- LOCATE AND INSTALL EQUIPMENT, JUNCTION AND PULL BOXES, PANEL BOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION:

- IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.

2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT THE PROJECT REQUIREMENTS AND FIELD CONDITIONS.

3. MINIMUM CONDUIT SIZE SHALL BE 1/2" I.D.

- IN CONCRETE - RIGID METAL CONDUIT
- UNDERGROUND - RIGID NONMETALLIC CONDUIT
- EXPOSED AND CONCEALED - ELECTRICAL METALLIC TUBING

WIRING INSTALLATION:

- DO NOT USE WIRE SMALLER THAN No. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

CIRCUIT	HOMERUN	CONDUIT SIZE
30 AMPERE CIRCUIT:	No. 10 AWG	
40 AMPERE CIRCUIT:	No. 8 AWG	
50 AMPERE CIRCUIT:	No. 6 AWG	
60 AMPERE CIRCUIT:	No. 6 AWG	

A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT	HOMERUN	CONDUIT SIZE
0' TO 50'	#12	#12	3/4"
51' TO 100'	#12	#10	3/4"
101' TO 200'	#10	#8	1"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

B. HOMERUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT	HOMERUN	CONDUIT SIZE
0' TO 100'	#12	#12	3/4"
100' TO 200'	#12	#10	3/4"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

- DO NOT USE WIRE SMALLER THAN No. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.
- WIRING ABOVE ACCESSIBLE CEILINGS AND IN STUDDED PARTITIONS MAY BE TYPE MC CABLE
- WHERE GREATER THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310, NOTE 8(A) OF AMPACITY TABLES FOR 0-2000 VOLT CONDUCTORS.
- CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- BRANCH CIRCUIT WIRING FOR LIGHTING AND OTHER SINGLE PHASE APPLICATIONS SHALL BE MULTI-WIRE, UTILIZING COMMON NEUTRALS, EXCEPT COMPUTER AND WORKSTATION CIRCUITS AND DIMMER CIRCUITS SHALL HAVE SEPARATE NEUTRALS, AND AS OTHERWISE INDICATED.
- UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
- THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS TO PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:
 - LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

GROUNDING INSTALLATION:

1. PROVIDE ALL ELECTRICAL GROUNDING TO CONFORM TO ARTICLE 250 OF THE NEC.

2. EQUIPMENT GROUNDING:

- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.

3. TELECOMMUNICATIONS CLOSET GROUNDING

- PROVIDE A #4 AWG GROUND CONDUCTOR RISER IN 1" EMT CONDUIT TO EACH TELECOMMUNICATIONS CLOSET GROUNDING BUSBAR (TGB) FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB), AND TO MAIN SERVICE GROUNDING ELECTRODE SYSTEM.
- CONNECT THE GROUND RISER TO TMGB AND TGB'S PER TIA/EIA STANDARD 607 - 1994

4. GROUND EACH TELECOMMUNICATIONS, FIRE ALARM, SECURITY, AND BMS SYSTEM EQUIPMENT AND CONTROL PANEL WITHIN EACH TELECOMMUNICATIONS ROOM/CLOSET TO THE ASSOCIATED CLOSET TMGB OR TGB WITH A #4 AWG CONDUCTOR PER TIA/EIA STANDARD 607 - 1994

RACEWAYS FOR TELECOMMUNICATION SYSTEMS:

- PROVIDE EMPTY CONDUIT SYSTEMS FOR TELECOMMUNICATION WORK, COMPLETE WITH PULL BOXES, OUTLET BOXES, AND CONDUIT AS INDICATED ON THE DRAWINGS.
- PROVIDE MINIMUM INSIDE BENDING RADIUS OF 10 TIMES CONDUIT INSIDE DIAMETER FOR TELECOMMUNICATIONS RACEWAYS.
- WHEN COMPLETED THE CONDUIT SYSTEMS SHALL BE READY FOR INSTALLATION OF WIRING AND EQUIPMENT.
- FROM EACH OUTLET PROVIDE A 1" EMPTY EMT CONDUIT ROUTED INTO THE CEILING CAVITY OR TO THE CLOSEST TELECOMMUNICATIONS CLOSET. PROVIDE A DRAG LINE IN EACH RUN AND TERMINATE IN A BUSHED ELBOW.

SWITCHES AND RECEPTACLES:

- LIGHT SWITCHES - 20 AMP, 120V - PASS & SEYMOUR #PS20AC11
- DUPLEX RECEPTACLES - 20 AMP, 120V - PASS & SEYMOUR #PTS362L1
- SPECIAL PURPOSE RECEPTACLES - AS SPECIFIED AND SHOWN ON THE DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT SERVED.
- PLATES - PASS & SEYMOUR TP SERIES
- WIRING DEVICES AS SPECIFIED ARE BASED ON PASS AND SEYMOUR CATALOG NUMBERS. DEVICES AS MANUFACTURED BY LEVITON OR HUBBEL WILL BE CONSIDERED, IF THEY ARE OF THE SAME TYPE AND QUALITY.
- ALL DEVICES AND PLATES SHALL BE IVORY UNLESS OTHERWISE NOTED. COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO PURCHASE.

LIGHTING FIXTURES:

- PROVIDE FIXTURES AND LAMPS AS SHOWN AND SPECIFIED ON THE DRAWINGS.
- ALL FLUORESCENT LAMPS SHALL BE WARM WHITE LAMPS UNLESS SPECIFIED OTHERWISE.
- ALL BALLASTS SHALL BE CBM CERTIFIED HIGH POWER FACTOR, ENERGY EFFICIENT, FULL LIGHT OUTPUT TYPES.
- FLUORESCENT BALLASTS SHALL BE AS MANUFACTURED BY ADVANCE, UNIVERSAL OR MOTOROLA.

MECHANICAL EQUIPMENT WIRING:

- UNLESS OTHERWISE NOTED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED UNDER OTHER DIVISIONS, INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.
- POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTORS, IS THE WORK OF THIS DIVISION.
- CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.
- COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.

EXAMINATION OF SITE:

- BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE WITH PLANS AND SPECIFICATIONS IN HAND AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS UNDER WHICH HIS WORK WILL BE PERFORMED.

2. THE SUBMISSION OF A BID SHALL BE TAKEN AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE, AND DIFFICULTIES, IF ANY, NOTED AND REPORTED TO THE ENGINEER. LATTER CLAIMS FOR EXTRA COST OF LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, SHALL NOT BE RECOGNIZED.

FINAL INSPECTION AND TEST:

- PRIOR TO TEST, FEEDERS AND BRANCHES SHALL BE CONTINUOUS FROM SERVICE CONTACT POINT TO EACH OUTLET. ALL PANELS, FEEDERS AND DEVICES CONNECTED AND CIRCUIT BREAKERS IN PLACE. TEST SYSTEM FREE FROM SHORT CIRCUITS AND GROUND WITH INSULATION RESISTANCE NOT LESS THAN OUTLINED IN THE 2005 NATIONAL ELECTRICAL CODE. PROVIDE TESTING EQUIPMENT NECESSARY AND CONDUCT TEST IN PRESENCE OF OWNER'S AUTHORIZED REPRESENTATIVE.

COORDINATION DRAWINGS:

- DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

- SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "NO EXCEPTIONS TAKEN" OR "MAKE CORRECTIONS NOTED" PRIOR TO BEING USED AS A BASIS FOR COORDINATION DRAWINGS.
- AFTER SHEET METAL, AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHER TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
 - MECHANICAL SHEET METAL
 - PLUMBING CONTRACTOR
 - ELECTRICAL WORK
 - MECHANICAL PIPING

- AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COST INCURRED BY OTHER TRADES.
- THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- SUBMIT FINAL SIGNED COORDINATION DRAWING TO THE ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
- ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND REINSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
- EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUBCONTRACTORS.
- THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO THE CONFLICTS WILL NOT BEAR ADDITIONAL COST.

issues + revisions:

no.	date	issued
1	02.06.20	BIDDING
2		
3		
4		
5		
6		
7		
8		

project: 1711.00

drawn by: CM

scale: AS NOTED

sheet:

ELECTRICAL SPECIFICATIONS