STATE OF CONNECTICUT

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ADDITIONS AND RENOVATIONS TO
ELI WHITNEY, CONNECTICUT TECHNICAL HIGH SCHOOL

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HAMDEN, CONNECTICUT 06514

NEW ADDRESS:
"XX" FAIRVIEW AVENUE
HAMDEN, CONNECTICUT 06514

STATE PROJECT NO. BI-RT-837

VOLUME 3 OF 3
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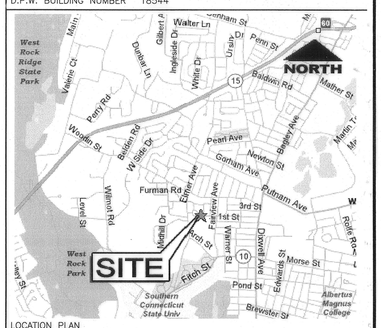
CMR BID DOCUMENTS
VOLUME 3 OF 3
DATE: JUNE 18, 2012

D.P.W. BUILDING NUMBER 18544



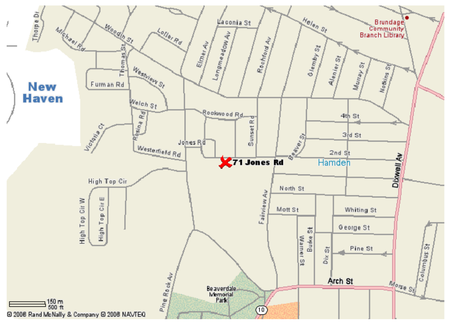
LOCATION PLAN

APPROVALS

DEPARTMENT of CONSTRUCTION SERVICES DATE 6.25.12

AGENCY DATE 6/25/12

LOCATION MAP



LIST OF ABBREVIATIONS

AB.	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
A.P.	ACCESS PANEL
ARCH.	ARCHITECTURAL
A.S.	ALUMINUM SADDLE
ASD	ACTIVE SOIL DEPRESSURIZATION
@	AT
BD.	BOARD
BIT.	BITUMINOUS
BLDG.	BUILDING
BLKG.	BLOCKING
B.M.	BENCH MARK
BM.	BEAM
BOT.	BOTTOM
BRK.	BRICK
B.U.	BUILT UP
C	CLEAN, CLOSER
CAB.	CABINET
C.B.	CHALKBOARD
CB	CATCH BASIN
CAP.	CAPACITY
C.H.	CABINET HEATER
C.I.	CAST IRON
℄	CENTER LINE
C.J.	CONTROL JT.
CLG.	CEILING
CLKG.	CALKLKING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CRS.	COURSE
C.S.B.C.	CT STATE BUILDING CODE
C & W	CLEAN AND WAX
C.T.	CERAMIC TILE
C.W.	COLD WATER
DEG.	DEGREE
DET./DTL.	DETAIL
D.F.	DRINKING FOUNTAIN
DIAG.	DIAGONAL
DIA. ø	DIAMETER
DISP.	DISPENSER
DN.	DOWN
DS.	DOWNSPOUT
DUR.	DURANODIC
DWG.	DRAWING
E.	EPOXY
EA.	EACH
E.J.	EXPANSION JOINT
EL. ELEV.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER	EMERGENCY
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.C.	ELECTRIC WATER COOLER
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
EXIST.	EXISTING (BY OWNER)
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.B.	FACE OF BRICK
F.O.C.	FACE OF CONCRETE
F.R.	FIRE RATED
F.R.P.	FIBER REINFORCED PLASTIC
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GYP. BD.	GYPSUM BOARD
HC	HANDICAPPED
HDFBD	HIGH DENSITY FIBERBOARD
H.M.	HOLLOW METAL
H.O.	HOLD OPEN (ELECTRO MAGNETIC)
H.P.	HIGH POINT
HR.	HOUR
HT.	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
H.W.	HOT WATER
I.D.	INSIDE DIAMETER
I.G.	ISOLATED GROUND
INSUL.	INSULATION
INFO	INFORMATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
J.O.H.	JAMB OPENING HEIGHT
J.O.W.	JAMB OPENING WIDTH
JT.	JOINT
JST.	JOIST
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
L.C.C.	LEAD COATED COPPER
L.H.	LEFT HAND
LVR.	LOUVER
L.P.	LOW POINT
LT.	LIGHT
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
M.S.	MARBLE SADDLE
MSY	MASONRY
MTL.	METAL
MUL.	MULLION
N.F.P.A.	NATIONAL FIRE PREVENTION ASSOCIATION
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
OCC.	OCCUPANT(S)
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
OPG.	OPENING
OPP.	OPPOSITE
ORD.	OVERFLOW ROOF DRAIN
P., PTD.	PAINT
PART. BD.	PARTICLEBOARD
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.S.	PROJECTION SCREEN
R.	RISER
RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQ'D.	REQUIRED
R.H.	RIGHT HAND
RM	ROOM
R.O.	ROUGH OPENING
R.V.	ROOF VENT
R.W.L.	RAIN WATER LEADER
S.C.	SOLDIER COURSE
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FOOT
S.F.S.C.	STATE FIRE SAFETY CODE
SHT.	SHEET
SIM.	SIMILAR
SP. CAB.	STANDPIPE CABINET
SPEC.	SPECIFICATION
SQ. OR ⊞	SQUARE
S.S.	STAINLESS STEEL
ST.	STAIN
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
SYS.	SYSTEM
T.B.	TACKBOARD
TEMP.	TEMPERED
T.O.S.	TOP OF STEEL
T.O.D.	TOP OF DECK
TR	TREAD
T & B	TOP AND BOTTOM
THK.	THICK
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
V.W.O.	VERIFY WITH OWNER
W/	WITH
WASH. F.	WASH FOUNTAIN
W.B.	WHITE BOARD
W.C.	WATER CLOSET
WD.	WOOD
W/O	WITHOUT

MATERIALS LEGEND

- CONCRETE
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METALS
- COMPACTED GRAVEL
- CRUSHED STONE
- UNDISTURBED SOIL
- PLYWOOD
- ACOUSTICAL TILE
- WOOD FRAMING – THROUGH MEMBER
- WOOD FRAMING – INTERRUPTED MEMBER
- FINISHED WOOD
- BATT INSULATION
- ACOUSTICAL INSULATION
- RIGID INSULATION

GRAPHIC LEGEND

- ROOM NUMBER
- DOOR NUMBER
- INTERIOR ELEVATIONS
- WINDOW TYPE
- DETAIL NUMBER
- DEMO. / CONSTRUCTION NOTES
- EXTERIOR ELEVATIONS
- BUILDING SECTION
- WALL SECTION
- COLUMN GRID LINES
- REFERENCE POINT
- WALL TYPE
- REVISION MARK
- INTERIOR SIGNAGE DESIGNATIONS

DRAWING LISTS

VOLUME 1 OF 3:

NO.	TITLE

VOLUME 2 OF 3:

NO.	TITLE

VOLUME 2 (CON'T)

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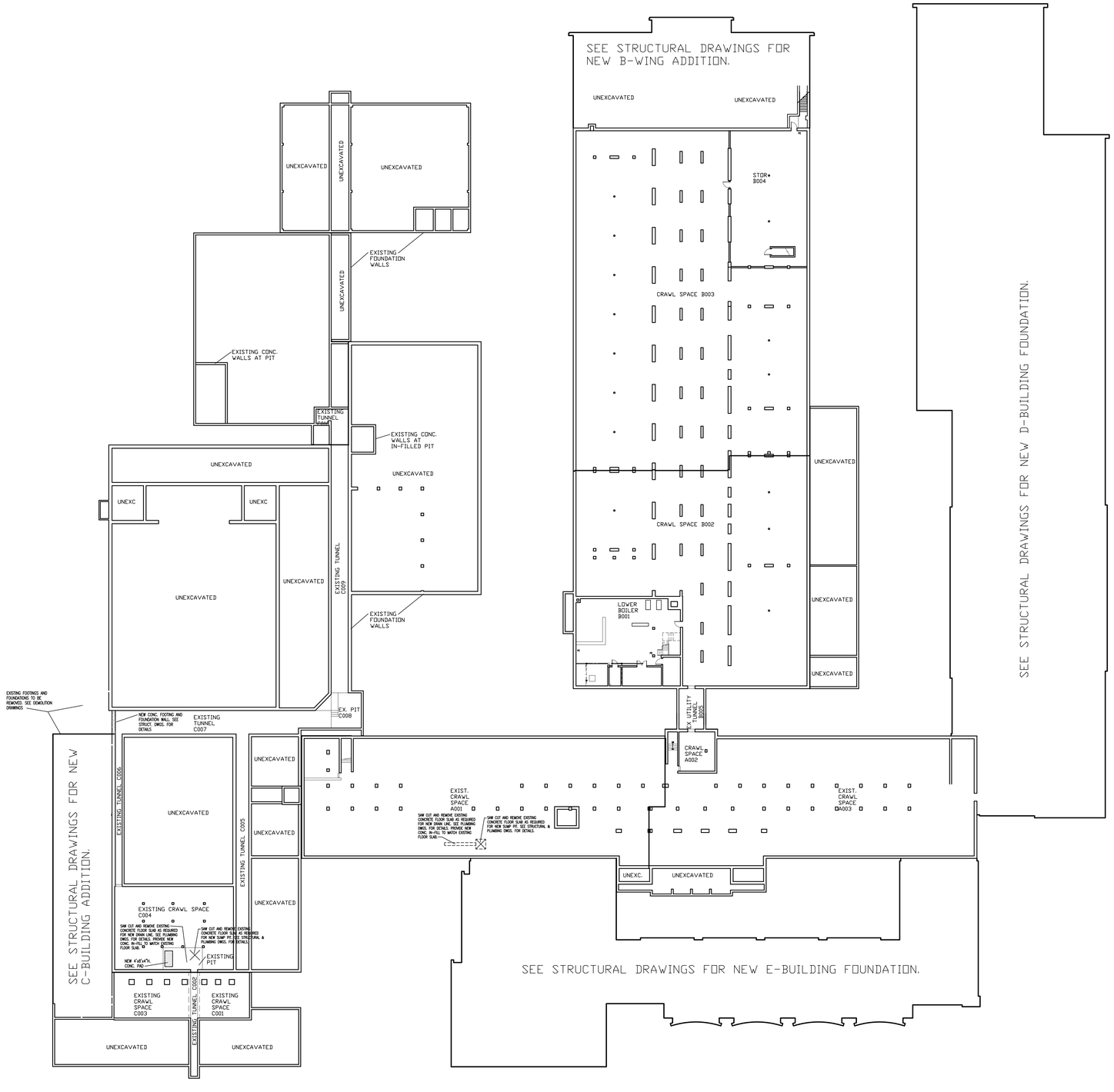
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI–RT–837

Date	06–18–2012
Scale	AS NOTED
Drawn By	R.R.
Approved By	D.C.F.
Drawing No.	INFO.1



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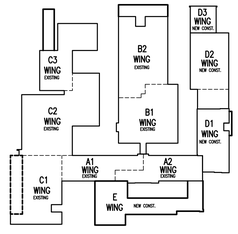

FIRST FLOOR KEY PLAN
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71 JONES ROAD
HAMDEN, CT 06514

Project No.
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Date	06-18-2012
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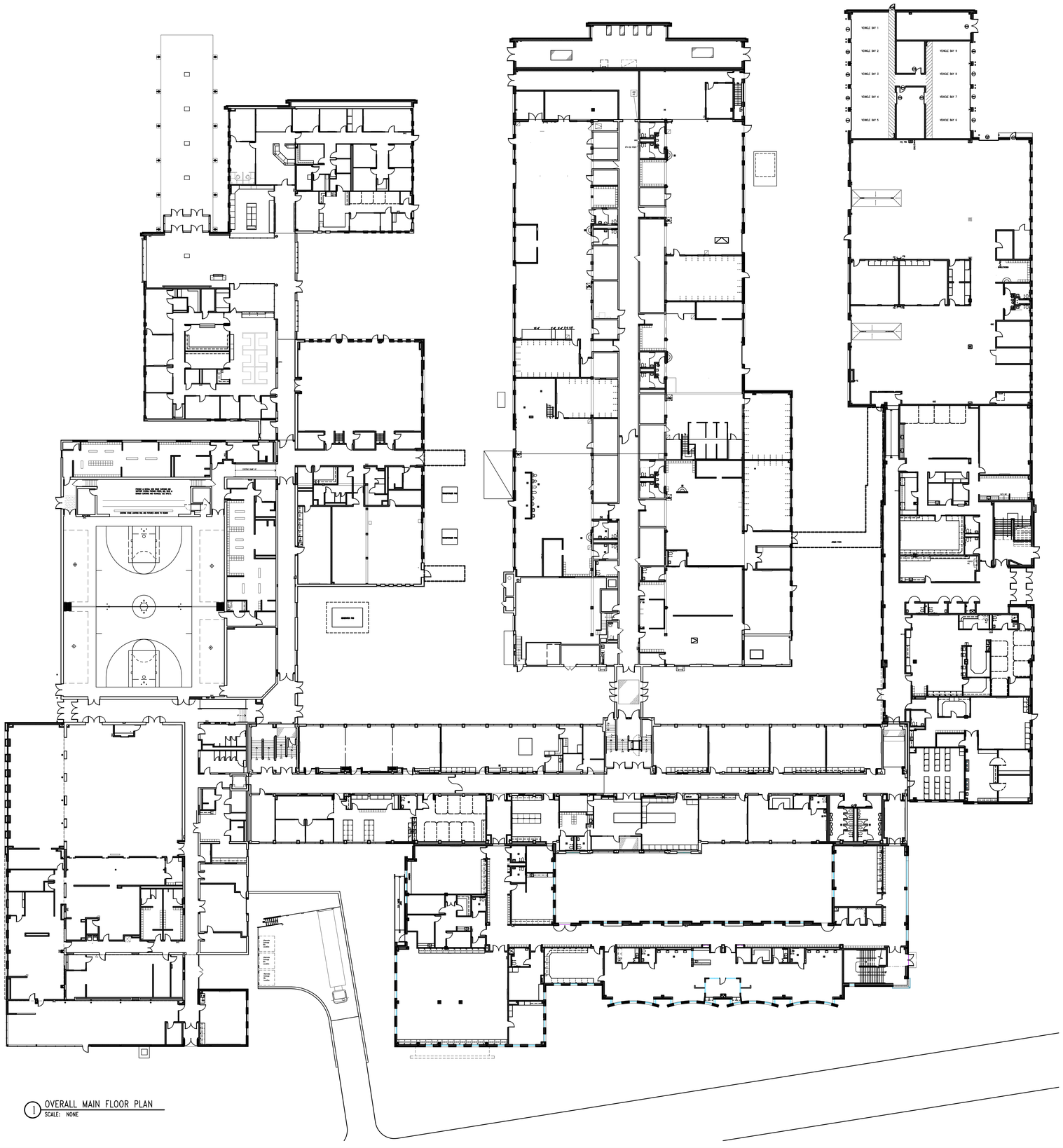

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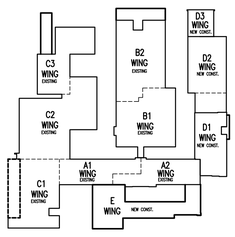

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		Project No.: BI-RT-837
		Date: 06-18-2012
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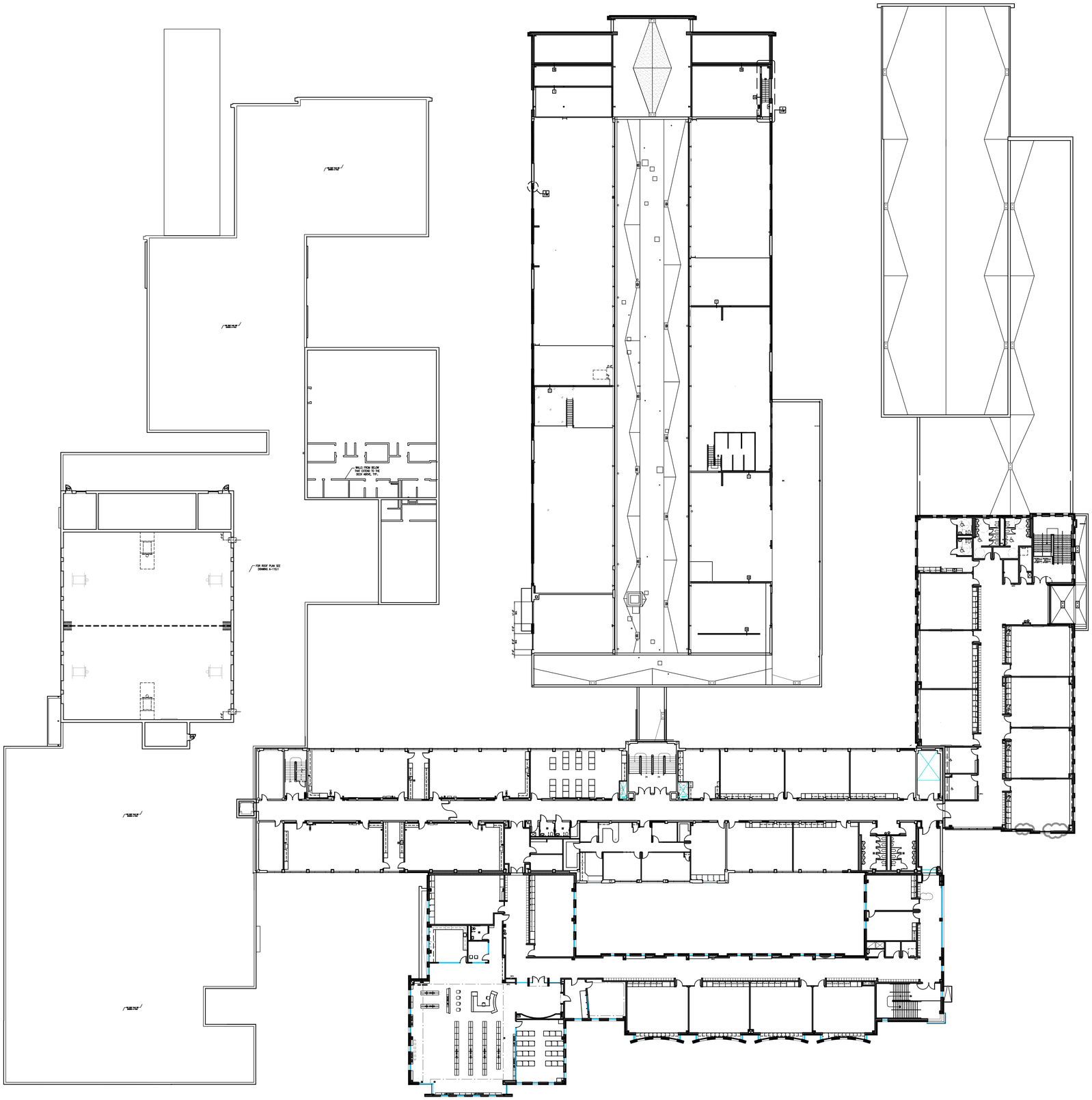
		Approved By: D.C.F.
		Drawing No.: INFO.3



1 OVERALL UPPER LEVEL PLAN
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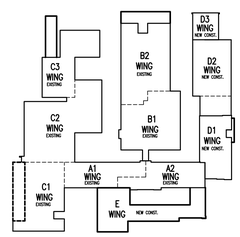

FIRST FLOOR KEY PLAN
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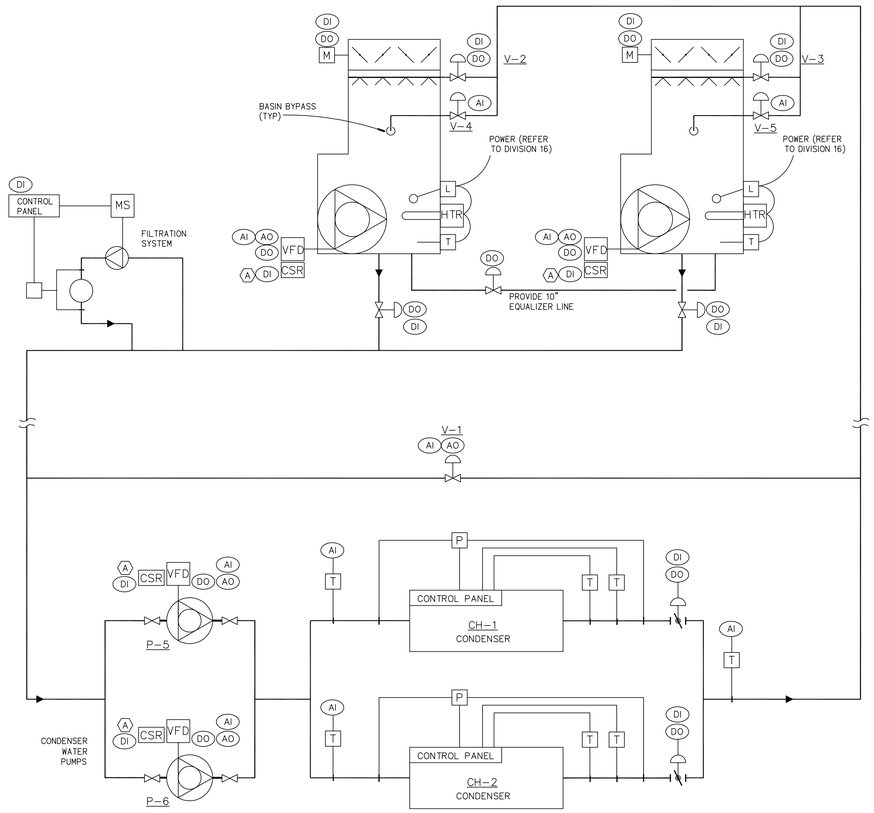
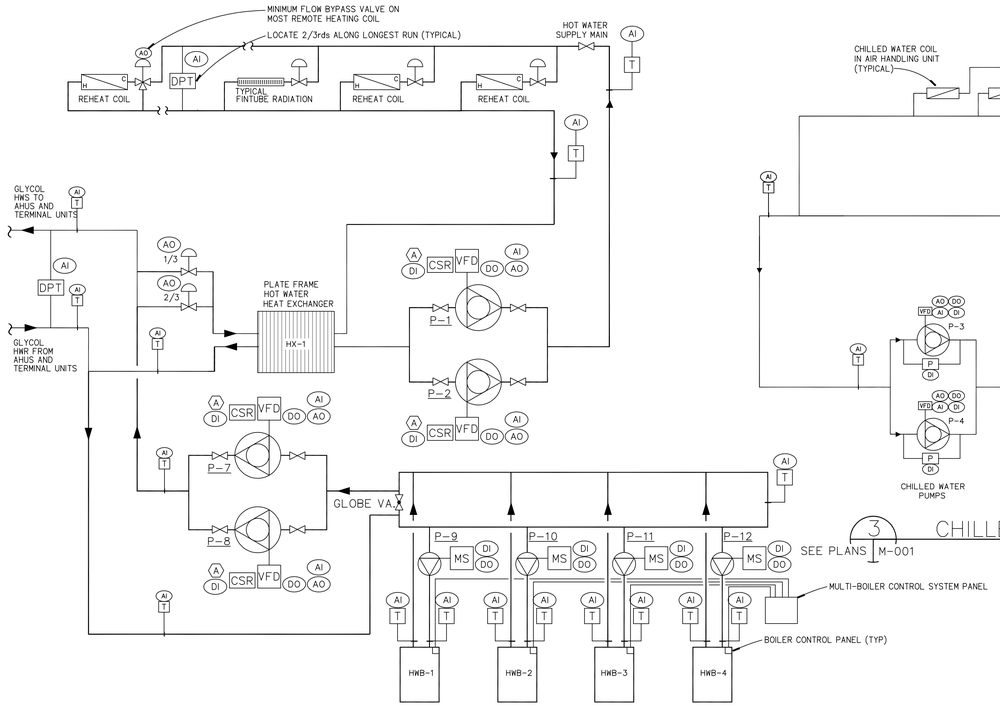
Approved By D.C.F.
Drawing No. INFO.4



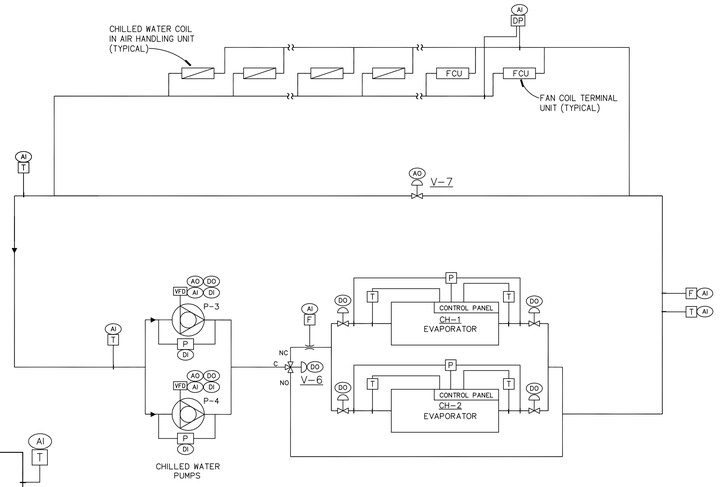
1 CONDENSER WATER SYSTEM FLOW DIAGRAM

SEE PLANS M-001



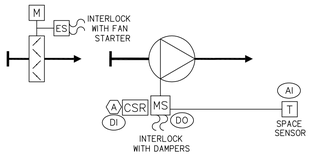
2 HOT WATER SYSTEM FLOW DIAGRAM

SEE PLANS M-001



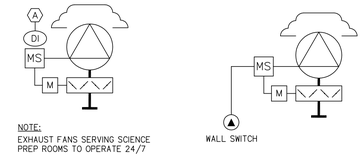
3 CHILLED WATER FLOW DIAGRAM

SEE PLANS M-001



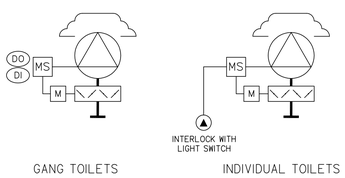
4 ELECTRICAL ROOM EXHAUST FAN

SEE PLANS M-001



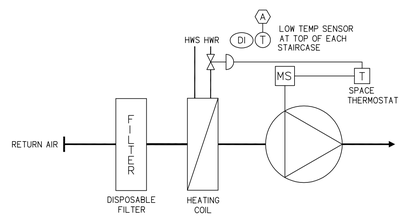
5 GENERAL EXHAUST FAN

SEE PLANS M-001



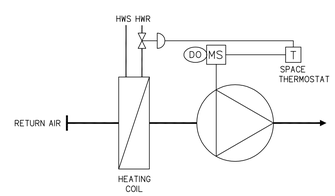
6 TOILET EXHAUST FAN

SEE PLANS M-001



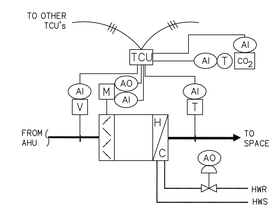
7 CABINET UNIT HEATER CONTROL

SEE PLANS M-001



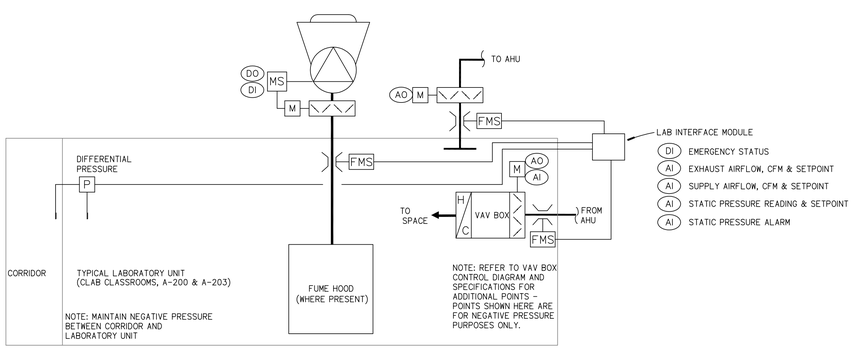
8 UNIT HEATER CONTROL

SEE PLANS M-001



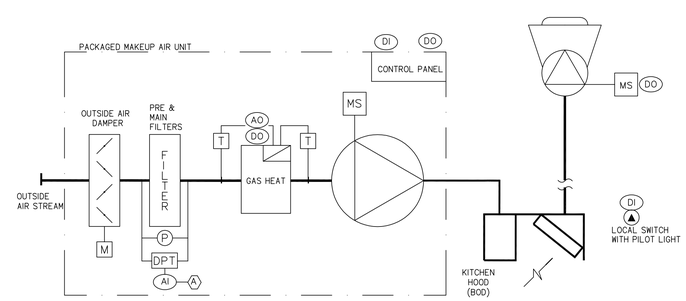
9 TYPICAL VAV BOX

SEE PLANS M-001



10 LABORATORY UNIT

SEE PLANS M-001



11 KITCHEN HOOD EXHAUST AND MAKE-UP AIR(MAU) SYSTEM

SEE PLANS M-001

FLOW & CONTROL SYMBOL LIST

SYMBOL	DESCRIPTION
T	TEMPERATURE TRANSMITTER
H	HUMIDITY TRANSMITTER
CO_2	CARBON DIOXIDE SENSOR
R	REFRIGERANT SENSOR
T	SPACE TEMPERATURE SENSOR
H	SPACE HUMIDITY SENSOR
P	DIFFERENTIAL PRESSURE SWITCH
M	MOTOR (PNEUMATIC OR ELECTRIC)
SD	SMOKE DETECTOR
VFD	VARIABLE SPEED DRIVE UNIT
MS	MOTOR STARTER
FS	FREEZE STAT
EM	ENERGY METER
IM	ICE LEVEL METER
LS	LEAK SENSOR
ES	END SWITCH
CSR	CURRENT SENSOR RELAY
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FMS F	FLOW MEASURING STATION
V	VELOCITY MEASURING STATION
A	DDC ALARM POINT
DI	DDC DIGITAL INPUT POINT
DO	DDC DIGITAL OUTPUT POINT
AI	DDC ANALOG INPUT POINT
AO	DDC ANALOG OUTPUT POINT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
C	CONSTANT
	AUTOMATIC 2-WAY VALVE
	HUMIDIFIER
	HEATING (OR COOLING) COIL
	AUTOMATIC 3-WAY VALVE
	AUTOMATIC BUTTERFLY VALVE
	MANUAL 2-WAY VALVE
	MANUAL BUTTERFLY VALVE
	CHECK VALVE
	VARIABLE FLOW FAN (OR PUMP) (WITH VFD)
	FAN (OR PUMP)
	OPPOSED BLADE DAMPER

GENERAL NOTES

1) DIVISION 23 TEMPERATURE CONTROL / MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING TO COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS AS NOTED ON THE MECHANICAL DRAWINGS AND IN SECTION 230923. POWER SHALL BE FROM EMERGENCY SOURCES AND COORDINATED WITH THE ELECTRICAL DRAWINGS U.O.N.
2) DIVISION 23 TEMPERATURE CONTROL / MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING TO VAV BOXES AND TERMINAL CONTROL UNITS AS NOTED ON THE MECHANICAL DRAWINGS AND IN SECTION 230923. POWER SHALL BE FROM NORMAL SOURCES AND COORDINATED WITH THE ELECTRICAL DRAWINGS U.O.N.
3) SEE STRUCTURAL DOCUMENTS FOR ROOF PENETRATION
4) CONTRACTOR SHALL REVIEW P AND E SERIES DRAWINGS FOR HEAT TRACING LOCATIONS AND REFER TO 230923 FOR CONTROL AND MONITORING. FURNISH AND INSTALL REQUIRED MONITORS IN CONTROL. COORDINATE WITH OTHER DIVISIONS OF THESE DOCUMENTS.
5) THE CONTRACTOR SHALL PROVIDE AT THE END OF EACH PHASE COMPLETE, FUNCTIONAL, TESTED AND FULLY OPERATIONAL SYSTEMS READ FOR USE BY OWNER.
6) WHEN EXISTING PIPING, EQUIPMENT, DUCTWORK, CONDUIT, ETC. IS REMOVED FROM A WALL, FLOOR, OR CEILING THE CONTRACTOR SHALL PROVIDE AN APPROVED FIRE AND SMOKE SEALANT AND SHALL PATCH AS REQUIRED.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: FLOW AND CONTROL SHEET #1 MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045\MF01

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By AT
Approved By PCS
Drawing No. M-001

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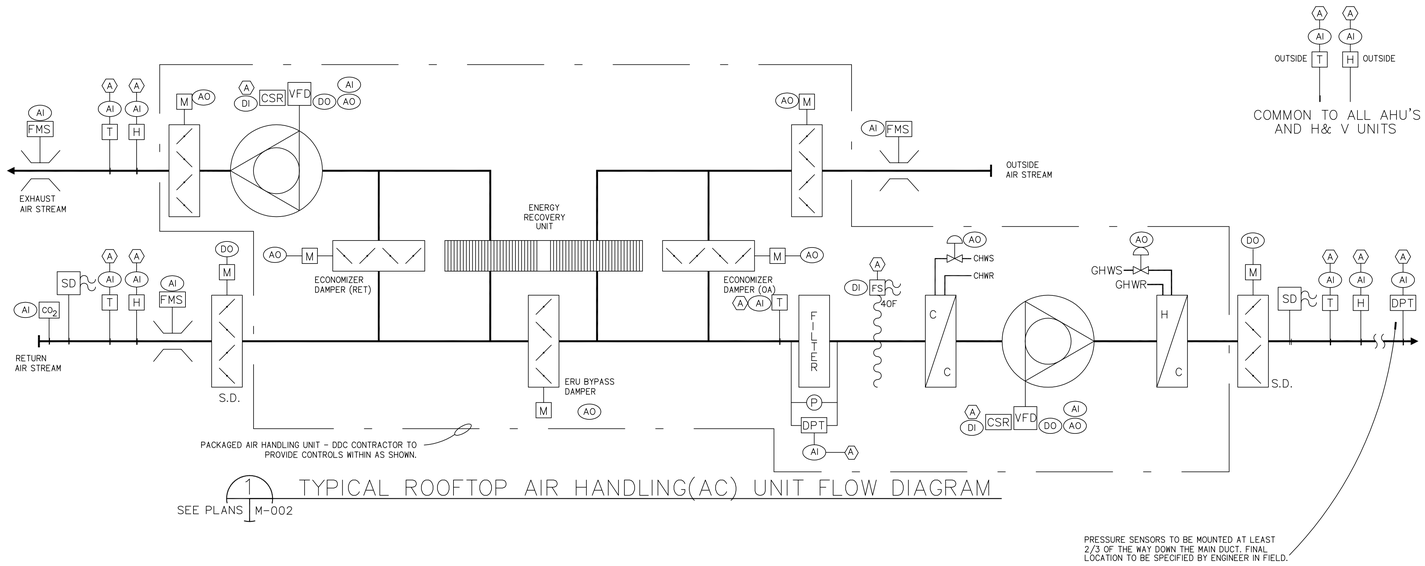
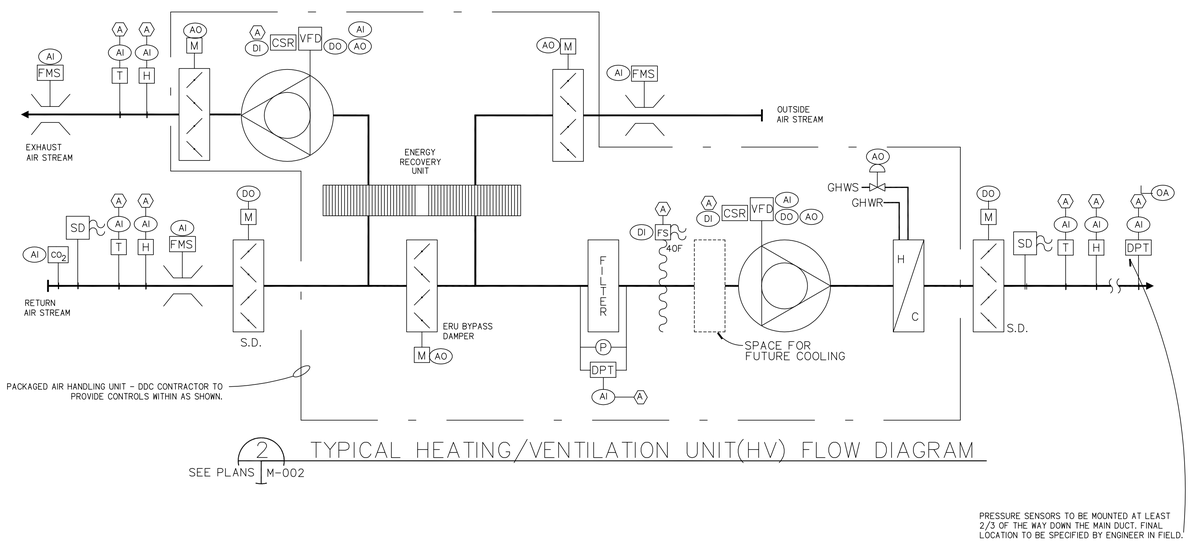
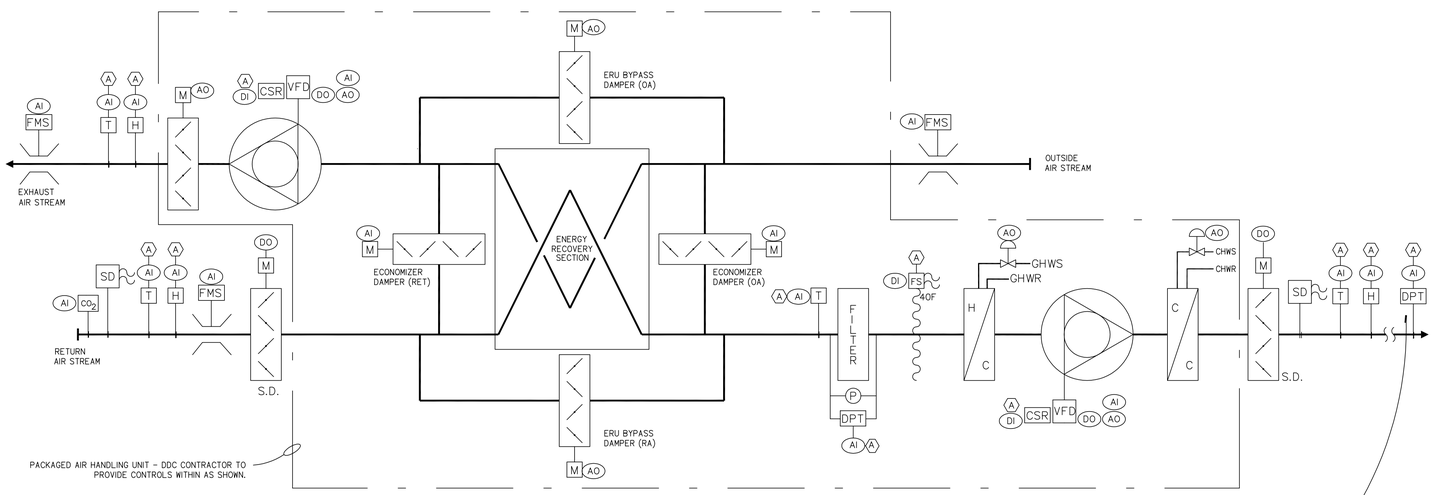


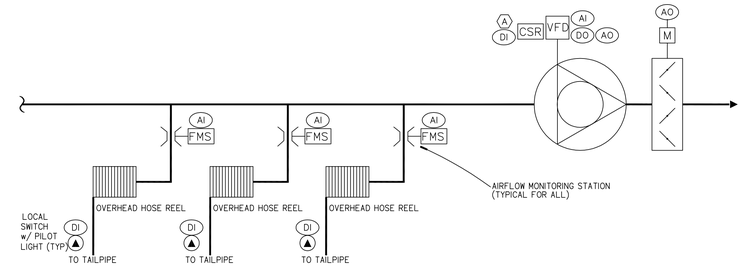
1 TYPICAL ROOFTOP AIR HANDLING(AC) UNIT FLOW DIAGRAM
SEE PLANS M-002



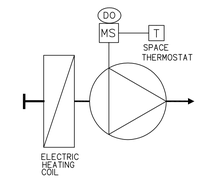
2 TYPICAL HEATING/VENTILATION UNIT(HV) FLOW DIAGRAM
SEE PLANS M-002



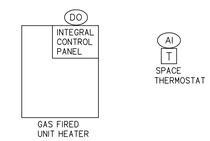
3 ROOFTOP AIR HANDLING (AC) UNIT AC-14 FLOW DIAGRAM
SEE PLANS M-002



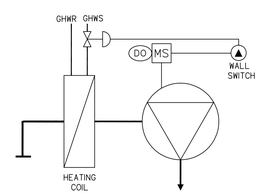
4 AUTO SHOP TAILPIPE EXHAUST
SEE PLANS M-002



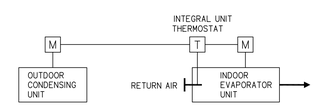
5 ELECTRIC UNIT HEATER CONTROL
SEE PLANS M-002



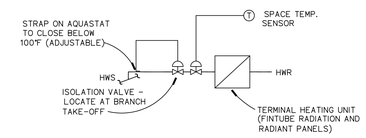
6 GAS-FIRED UNIT HEATER CONTROL
SEE PLANS M-002



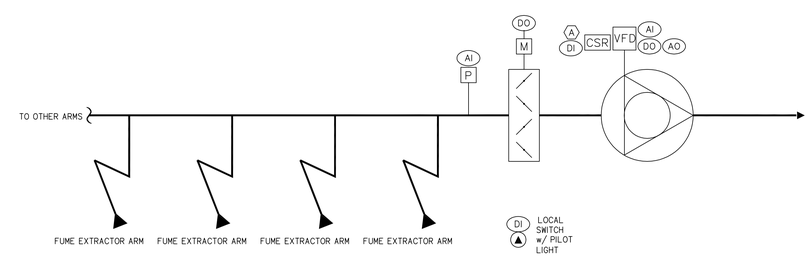
7 AIR DOOR
SEE PLANS M-002



8 DUCTLESS AC UNIT
SEE PLANS M-002



10 TERMINAL HEATING UNIT (FINTUBE AND RADIANT PANELS)
SEE PLANS M-002



9 FUME EXTRACTOR SYSTEM
SEE PLANS M-002

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-5243	Drawing Title: FLOW AND CONTROL SHEET #2 MECHANICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PAUL C. SEBOR, No. 20274	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 0451MF02	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-R1-837

Date: 06-18-2012
Scale: NONE
Drawn By: TMG
Approved By: PCS
Drawing No. M-002

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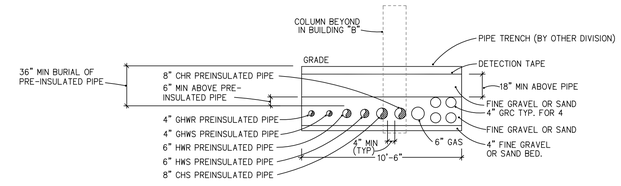

1 PIPE TRENCH SECTION
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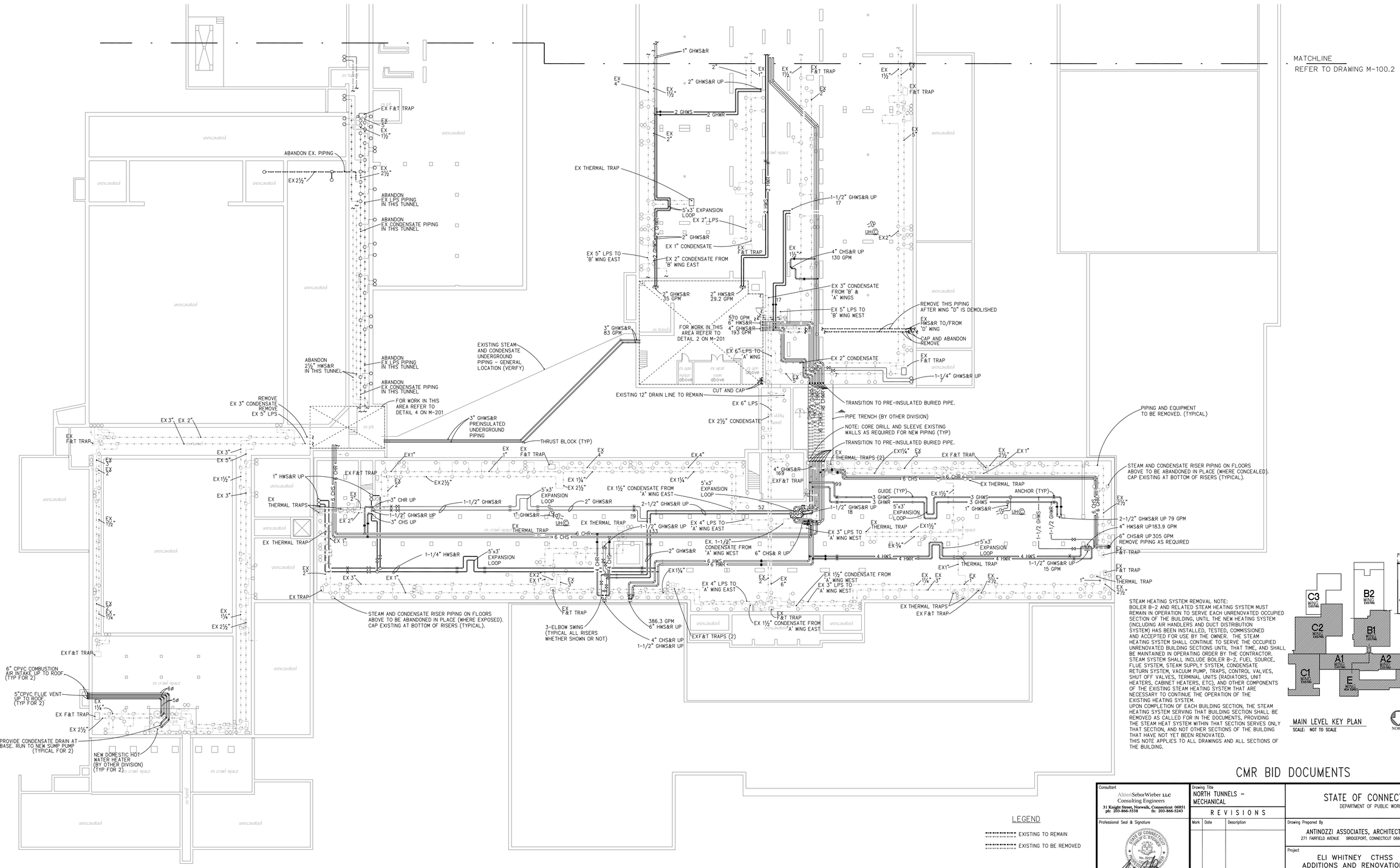

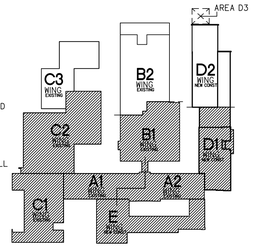

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

STEAM HEATING SYSTEM REMOVAL NOTE:
BOILER B-2 AND RELATED STEAM HEATING SYSTEM MUST REMAIN IN OPERATION TO SERVE EACH UNRENOVATED OCCUPIED SECTION OF THE BUILDING, UNTIL THE NEW HEATING SYSTEM (INCLUDING AIR HANDLERS AND DUCT DISTRIBUTION SYSTEM) HAS BEEN INSTALLED, TESTED, COMMISSIONED AND ACCEPTED FOR USE BY THE OWNER. THE STEAM HEATING SYSTEM SHALL CONTINUE TO SERVE THE OCCUPIED UNRENOVATED BUILDING SECTIONS UNTIL THAT TIME, AND SHALL BE MAINTAINED IN OPERATING ORDER BY THE CONTRACTOR. STEAM SYSTEM SHALL INCLUDE BOILER B-2, FUEL SOURCE, FLUE SYSTEM, STEAM SUPPLY SYSTEM, CONDENSATE RETURN SYSTEM, VACUUM PUMP, TRAPS, CONTROL VALVES, SHUT OFF VALVES, TERMINAL UNITS (RADIATORS, UNIT HEATERS, CABINET HEATERS, ETC), AND OTHER COMPONENTS OF THE EXISTING STEAM HEATING SYSTEM THAT ARE NECESSARY TO CONTINUE THE OPERATION OF THE EXISTING HEATING SYSTEM.
UPON COMPLETION OF EACH BUILDING SECTION, THE STEAM HEATING SYSTEM SERVING THAT BUILDING SECTION SHALL BE REMOVED AS CALLED FOR IN THE DOCUMENTS, PROVIDING THE STEAM HEAT SYSTEM WITHIN THAT SECTION SERVES ONLY THAT SECTION, AND NOT OTHER SECTIONS OF THE BUILDING THAT HAVE NOT YET BEEN RENOVATED.
THIS NOTE APPLIES TO ALL DRAWINGS AND ALL SECTIONS OF THE BUILDING.

LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED

NOTE:
REMOVE ALL EXPOSED PIPING AND EQUIPMENT THAT IS NOT SHOWN TO BE REUSED. (VERIFY IN FIELD)

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
NORTH TUNNELS - MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451NBM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-100.1

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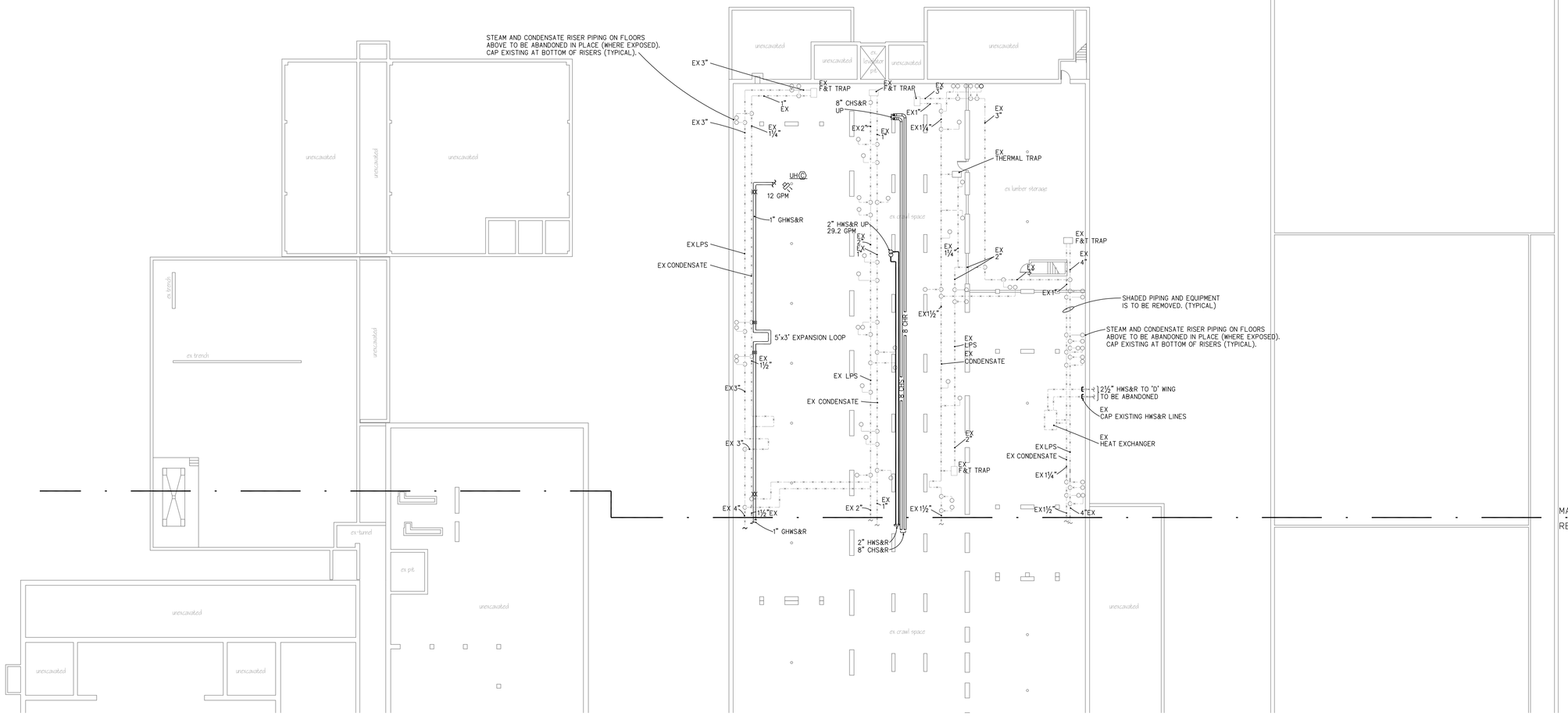

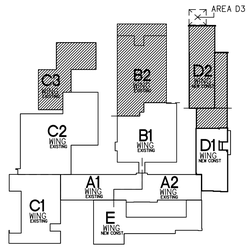

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED

NOTE:
REMOVE ALL EXPOSED PIPING AND EQUIPMENT THAT IS NOT SHOWN TO BE REUSED. (VERIFY IN FIELD)

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT PHILIP C. BOSI No. 22016
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
SOUTH TUNNELS – MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451SBM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-100.2

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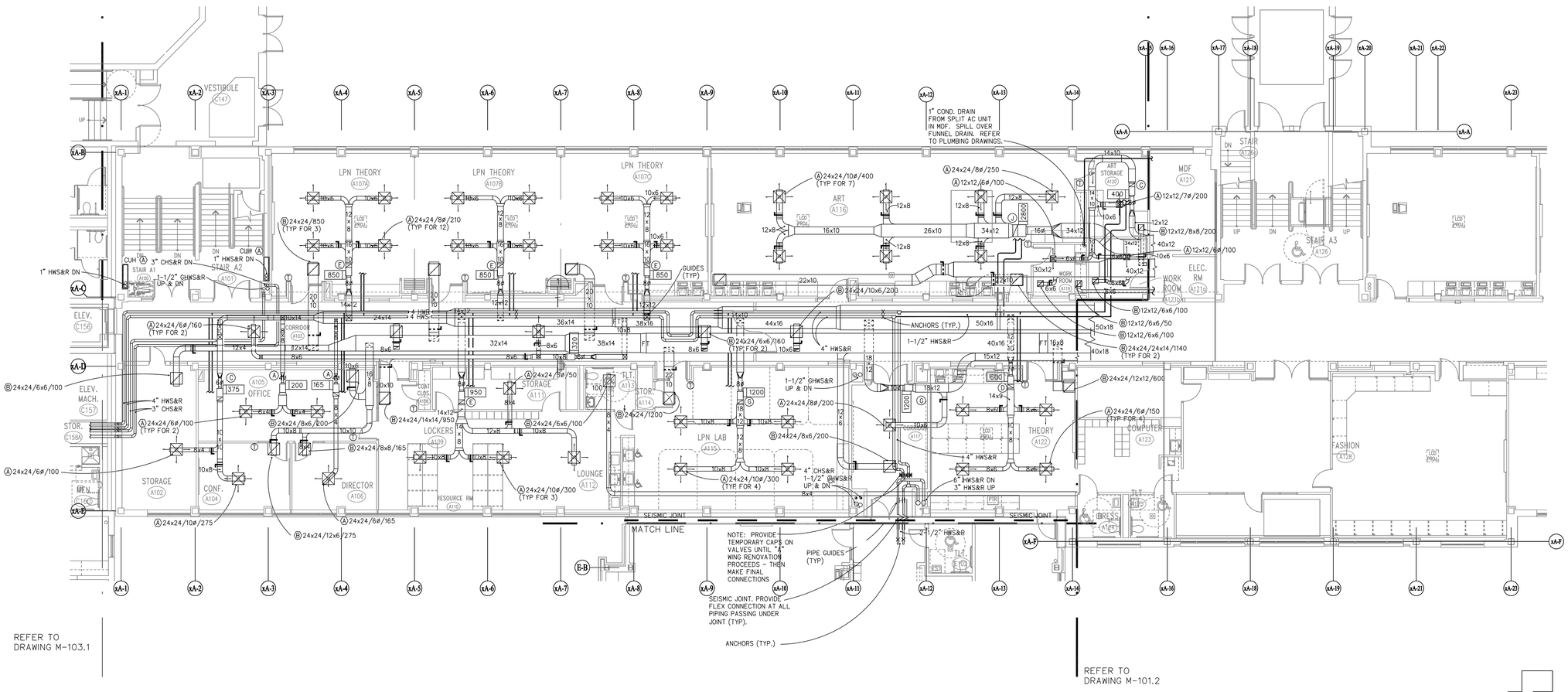
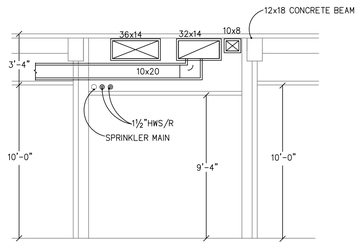
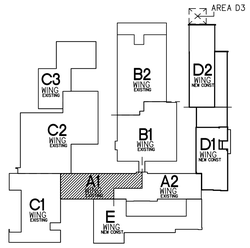




1 SECTION AT CORRIDOR

M-101.1 | M-101.1 SCALE: 1/4" = 1'-0"



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

CMR BID DOCUMENTS

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

Consultant: Altieri SeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA A1 MAIN LEVEL MECHANICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045115M	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012
		Scale 1/8"=1'-0"
		Drawn By ASW
		Approved By PCS
		Drawing No. M-101.1

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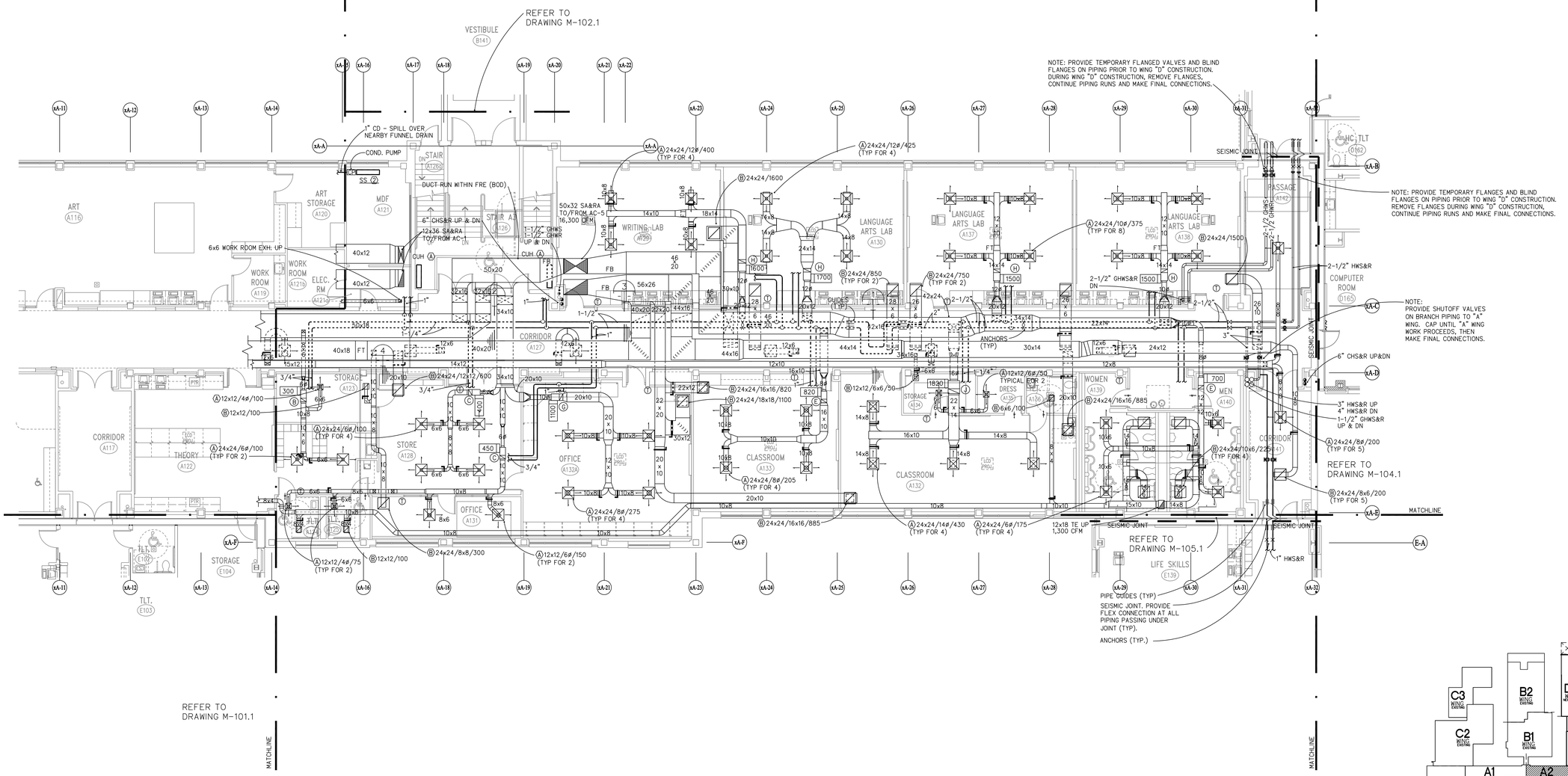
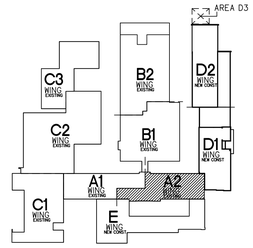
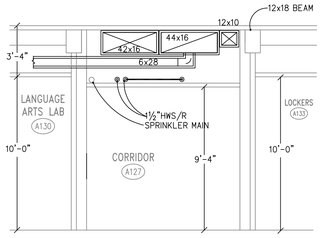




MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH



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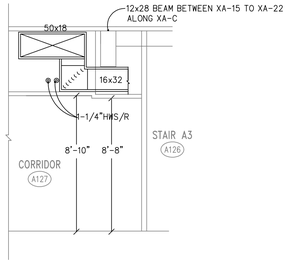
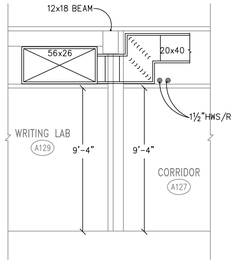
M-101.2 1 M-101.2 SCALE: 1/4" = 1'-0"



2 SECTION AT CORRIDOR
M-101.2 1 M-101.2 SCALE: 1/4" = 1'-0"



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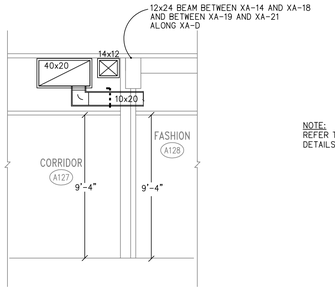

4 SECTION AT CORRIDOR
M-101.2 1 M-101.2 SCALE: 1/4" = 1'-0"

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT
ALBERT C. BIANCHINI
No. 20022
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A2 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045113M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

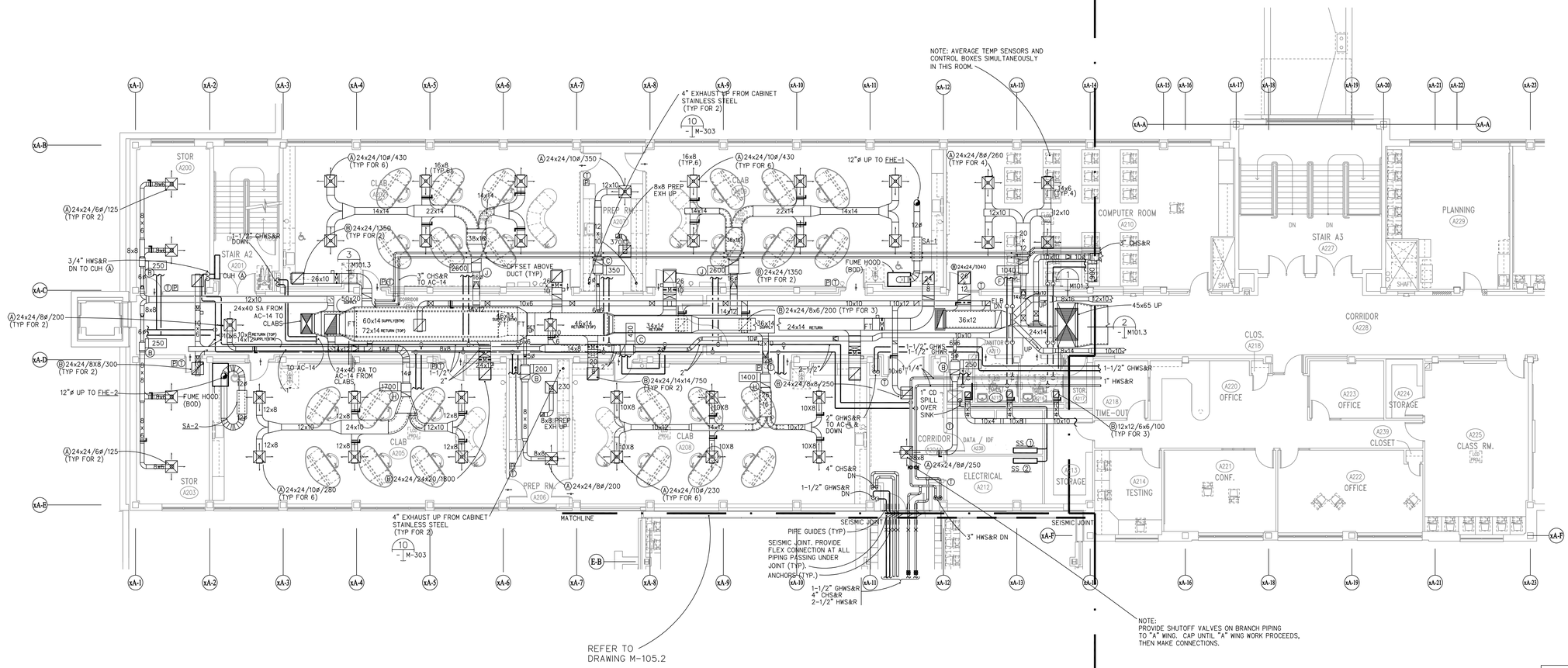
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

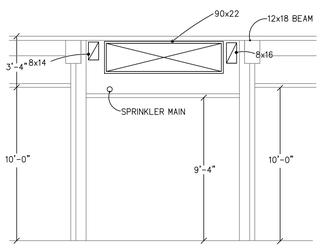
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-101.2

FILE:045113M REV:06/15/12 07:55
FILE:045113bg REV:04/25/2012 13:15
FILE:045113b REV:02/01/2007 17:15
FILE:045113M REV:06/22/06 13:57





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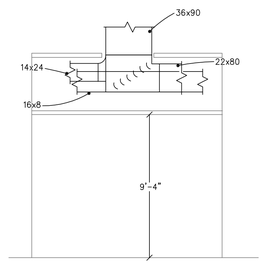
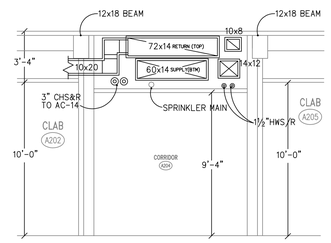
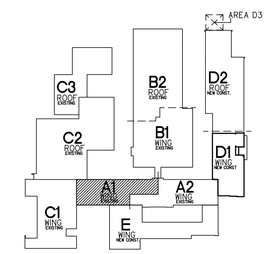
M-101.3 | M-101.3 SCALE: 1/4" = 1'-0"



2 SECTION AT CORRIDOR
M-101.3 | M-101.3 SCALE: 1/4" = 1'-0"



3 SECTION AT CORRIDOR
M-101.3 | M-101.3 SCALE: 1/4" = 1'-0"



UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

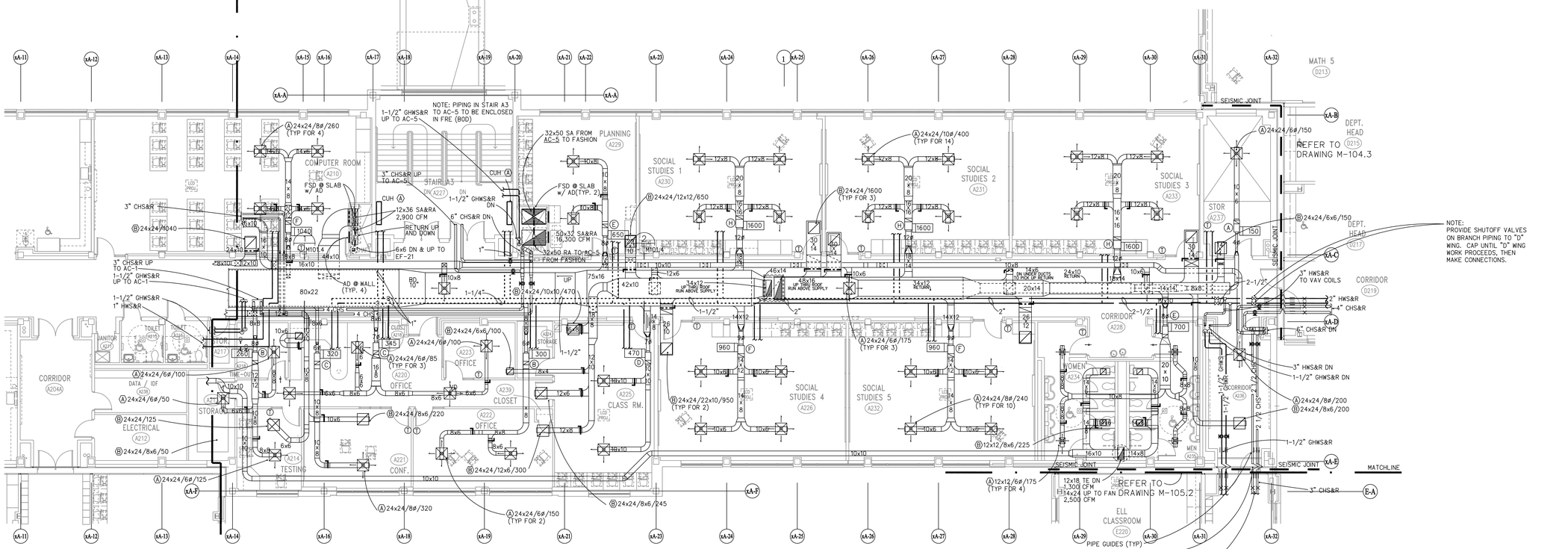
NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-3243	Drawing Title: AREA A1 UPPER LEVEL MECHANICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PAUL C. SIVA, No. 22272, LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045125M	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

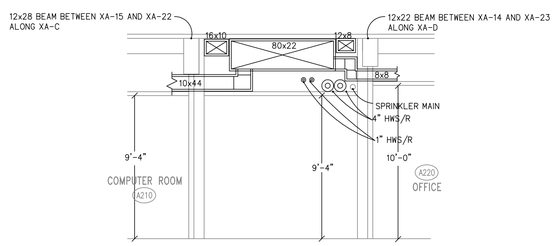
Date 06-18-2012 | Scale 1/8"=1'-0" | Drawn By AGW | Approved By PCS | Drawing No. M-101.3

FILE:045116 REV02/01/2007 17:15
FILE:045125M REVISIONS/REVISE 08.35



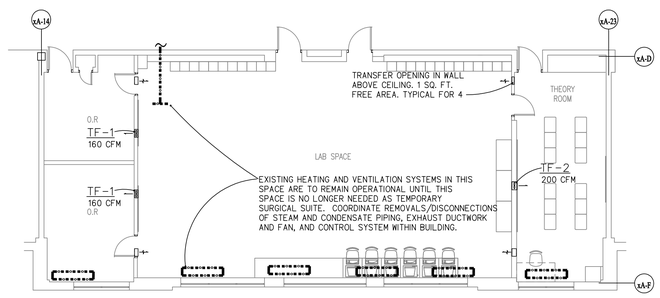
TRANSFER FAN SCHEDULE

UNIT NO	CFM	SP	ELECTRICAL WATTS	VOLTS	PH	MAKE/MODEL	REMARKS
TF-1	160	1/8"	55	120	SINGLE	ESP ENERGY LLC THRU WALL PRO TW 208P	
TF-2	200	1/8"	55	120	SINGLE	ESP ENERGY LLC THRU WALL PRO TW 208P	



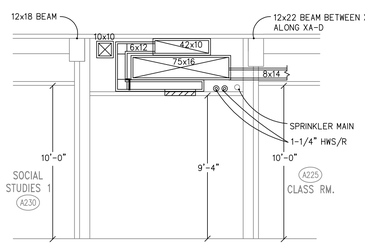
1 SECTION AT CORRIDOR

M-101.4 | M-101.4 SCALE: 1/4" = 1'-0"



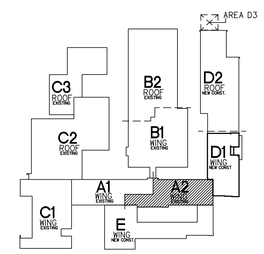
3 PART PLAN - TEMPORARY SURGICAL TECH SUITE

M-101.4 | M-101.4 SCALE: 1/8" = 1'-0"



2 SECTION AT CORRIDOR

M-101.4 | M-101.4 SCALE: 1/4" = 1'-0"



UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
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31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
STATE OF CONNECTICUT
No. 20218
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A2 UPPER LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045123M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-101.4

FILE:045116 REV02/01/2007 17:15
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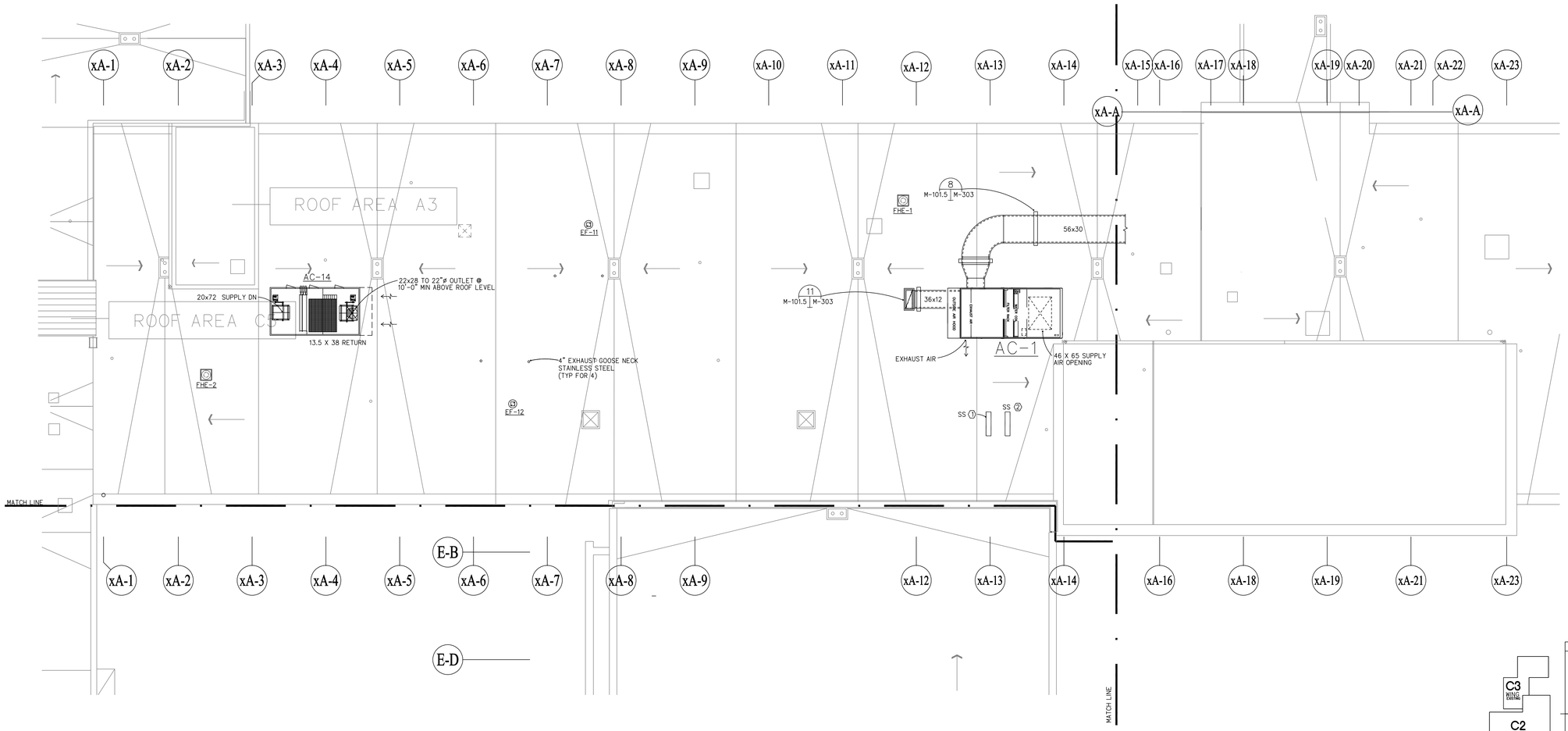
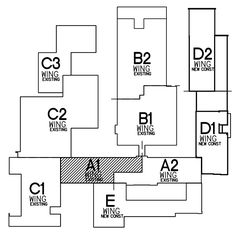
REV06/26/2012 08:35





ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

Consultant
AltieriSeboriWieber LLC
Consulting Engineers
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ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A1 ROOF
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No.
045135M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-101.5

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FILE:045135m REV:02/01/2007 17:15
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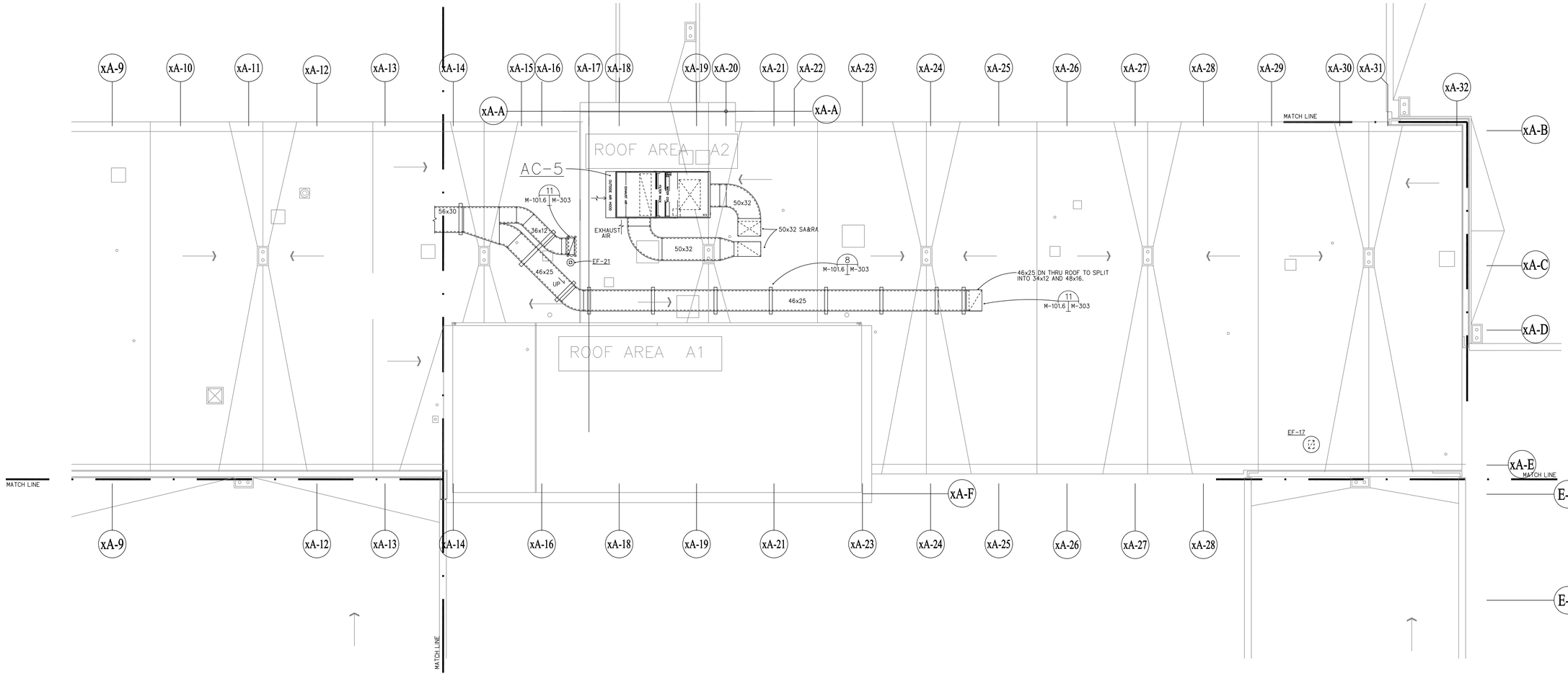

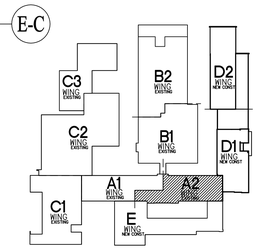

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 ROOF PLAN MECHANICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045133M	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	ASW
Approved By	PCS
Drawing No.	M-101.6

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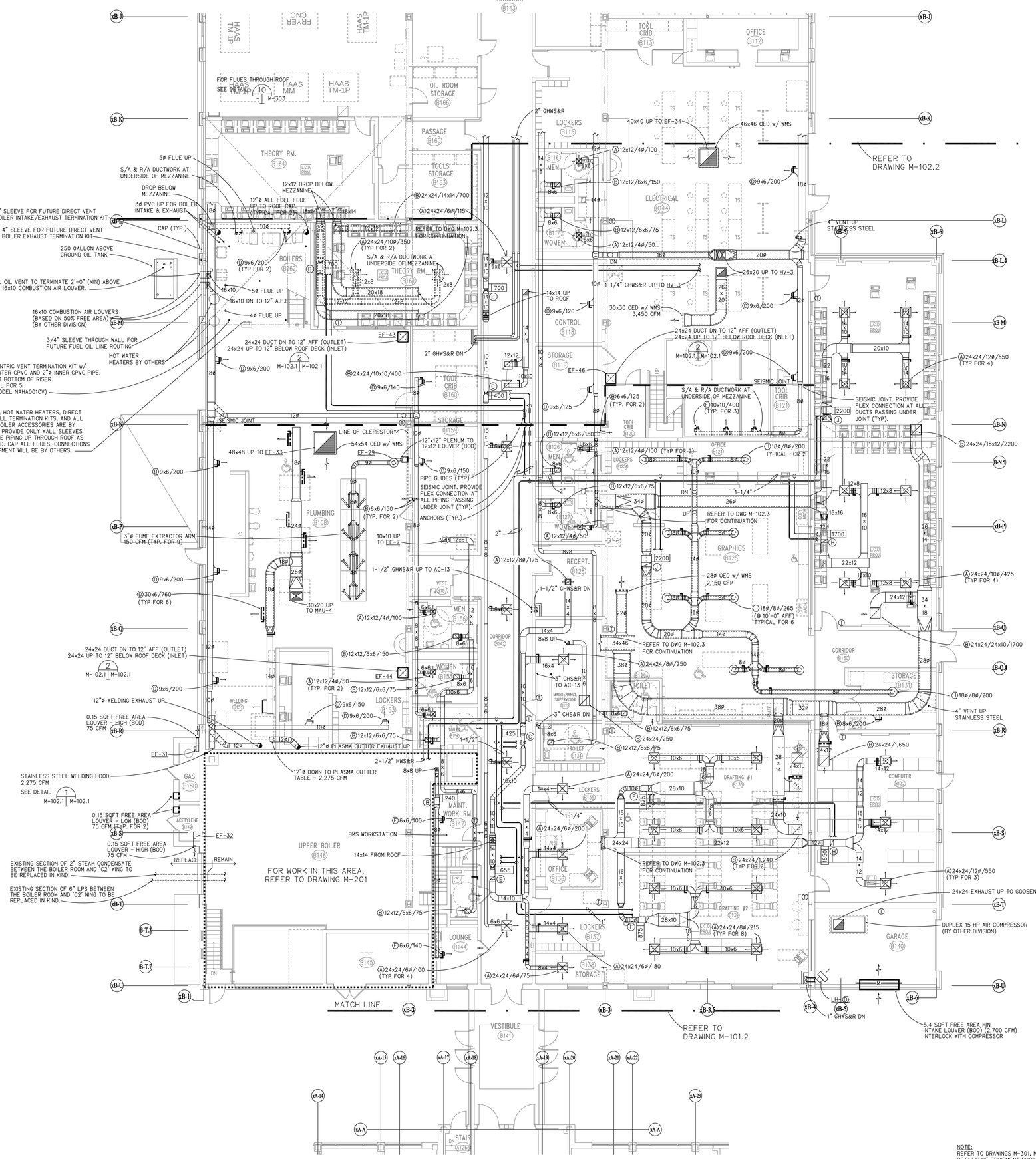
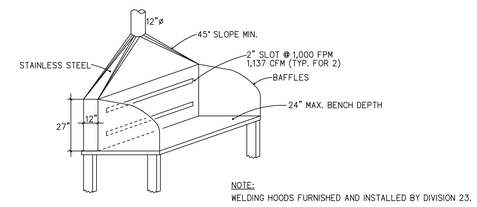
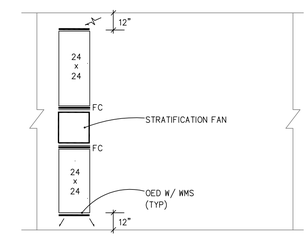
FILE:0451b REV:02/01/2007 17:15
FILE:045133M REV:06/18/12 08:29

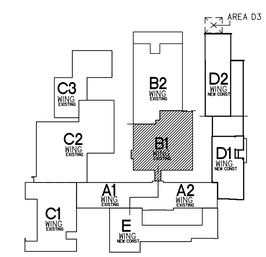




1 WELDING HOOD DETAIL
M-102.1 | M-102.1 NOT TO SCALE



2 TYPICAL STRATIFICATION FAN
M-102.1 | M-102.1 SCALE: N.T.S.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

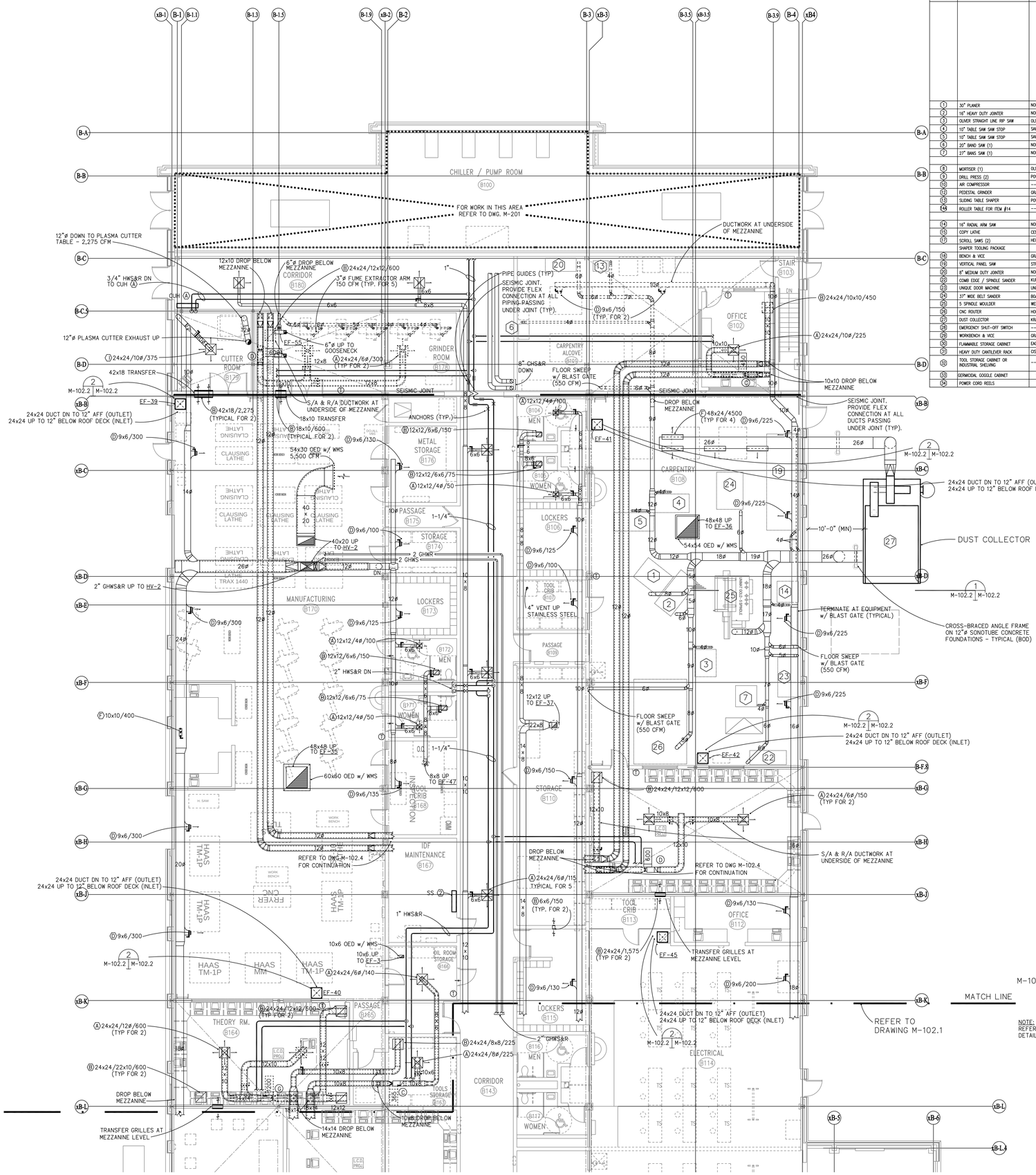
NORTH

CMR BID DOCUMENTS

Consultant	Drawing Title	STATE OF CONNECTICUT
AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-5243	AREA B1 MAIN LEVEL MECHANICAL	DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045116M	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

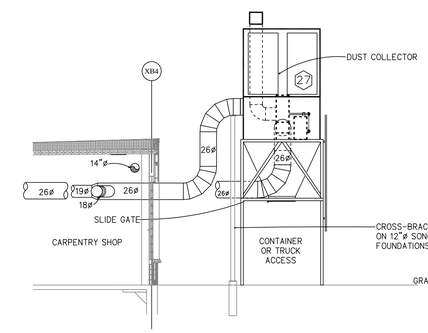
Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: ASW
Approved By: PCS
Drawing No. M-102.1

FILE:045116b REV02/01/2007 17:15 FILE:045116M REV06/19/12 10:27
FILE:045116a REV04/25/2012 09:21

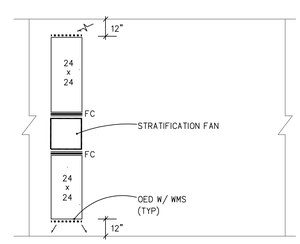


SHOP EQUIPMENT SCHEDULE – CARPENTRY

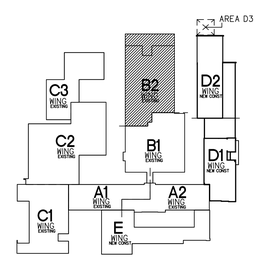
ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	EXISTING	NEW	FURNISHED & INSTALLED BY OWNER	FURNISHED BY OWNER – INSTALLED BY C.C.	FURNISHED BY C.C. – INSTALLED BY C.C.	EXISTING BY OWNER – C.C. TO REMOVE, STORE, RELOC. & REINSTAL.	UTILITIES: AIR	UTILITIES: GAS	UTILITIES: HOT & COLD WATER	POWER: AMPS	POWER: VOLTAGE	POWER: PHASE	POWER: CORD & PLUG	POWER: HARDWIRED	POWER: HORSE POWER	DUCT SIZE	CFM	NOTES
1	30" PLANER	NORTHFIELD	# 8		●	●				–	–	–	36	208	3		X	12	8"	1500	
2	16" HEAVY DUTY JOINTER	NORTHFIELD	16" HEAVY DUTY		●	●				–	–	–	15	208	3		X	5	6"	800	
3	OLIVER STRAGHT LINE RIP SAW	OLIVER	ECONO RIP		●	●				–	–	–	25	220	3		X	8.5	4"	750	
4	10" TABLE SAW SAW STOP	SAW STOP	SAW STOP CAP		●	●				–	–	–	15	230	3		X	5	4"	650	
5	10" TABLE SAW SAW STOP	SAW STOP	SAW STOP CAP	●					●	–	–	–	15	230	3		X	5	4"	650	
6	20" BAND SAW (1)	NORTHFIELD	20"		●	●				–	–	–	12	208	3		X	3	4"	400	
7	27" BANS SAW (1)	NORTHFIELD	27"		●	●				–	–	–	12	208	3		X	3	4"	400	
8	MORTISER (1)	OLIVER	5125		●	●				–	–	–	8	220	1		X	1.5	–	–	
9	DRILL PRESS. (2)	POWERMATIC	PM 2800		●	●				–	–	–	15	115	1	X		1	–	–	115 VOLT
10	AIR COMPRESSOR	------	------		●			●		●											SEE PLUMBING DRAWINGS
12	PEDESTAL GRINDER	GRAINGER	2LKR9		●	●				–	–	–	–	115	1	X		–	–	–	STAND – GRAINGER 42154 (BY OWNER)
13	SLIDING TABLE SHAPER	POWERMATIC	TS 29		●	●				–	–	–	25	230	3		X	7.5	4"	650	
14	ROLLER TABLE FOR ITEM #14	------	------		●	●				–	–	–	–	–	–			–	–	–	
14	16" RADIAL ARM SAW	NORTHFIELD	UNIPOINT		●	●				–	–	–	23	208	3		X	7.5	4"	500	
15	COPY LATHE	CENTAURO	TC 1200		●	●				–	–	–	15	220	3		X	5	–	–	
17	SCROLL SAWS (2)	HEGNER	22V		●	●				–	–	–	–	115	1	X		–	–	–	
	SHAPER TOOLING PACKAGE				●	●				–	–	–	–	–	–			–	–	–	
18	BENCH & VICE	GRAINGER	#5300514 & #634472		●	●				–	–	–	–	–	–			–	–	–	
19	VERTICAL PANEL SAW	STREBIG	COMPACT		●	●				–	–	–	15	220	3		X	5	TWO X 4"	800	
20	8" MEDIUM DUTY JOINTER	NORTHFIELD	8" MD		●	●				–	–	–	10	208	3		X	3	6"	800	
22	COMB EDGE / SPINDLE SANDER	KUNDIG	UNIQ		●	●				–	–	–	15	220	–		X	5	6"	885	
23	UNIQUE DOOR MACHINE	UNIQUE	GT 250		●	●				●	–	–	36	208	3		X	10	5"	1000	SEE PLUMBING DRAWINGS FOR COMPRESSED AIR
24	37" WIDE BELT SANDER	BOARKE / DURAMAC	37"		●	●				●	–	–	63	220	3		X	21	6"	885	SEE PLUMBING DRAWINGS FOR COMPRESSED AIR
25	5 SPINDLE MOULDER	WEINIG	UNIMAT GOLD		●	●				●	–	–	75	460	3		X	55	12"	5000	VENDOR SUPPLIES DUST MANIFOLD & CONTRACTOR INSTALLS
26	CNC ROUTER	HOLZHER	UNI 7510		●	●				●	–	–	115	220	3		X	57	8"	1500	SEE PLUMBING DRAWINGS FOR COMPRESSED AIR
27	DUST COLLECTOR	KRAEMER TOOL & MFG.	A-26		●			●		–	–	–	480	3	X		X	60	26"	18,000	VENDOR SUPPLIES DUST MANIFOLD & CONTRACTOR INSTALLS
28	EMERGENCY SHUT-OFF SWITCH	------	------					●		–	–	–	–	–	–			–	–	–	
29	WORKBENCH & VICE	GRAINGER			●	●				–	–	–	–	–	–			–	–	–	ADA ACCESSIBLE
30	FLAMMABLE STORAGE CABINET	EAGLE	GRAINGER # 6YG17		●			●		–	–	–	–	–	–			–	–	–	SEE PLUMB./MECH. DWGS. FOR VENTILATION REQUIREMENTS
31	HEAVY DUTY CANTILEVER RACK	CISCO EAGLE	SERIES 25		●	●				–	–	–	–	–	–			–	–	–	9'-0" CLR. FLOOR SPACE (CENTER OF RACK EACH SIDE)
32	TOOL STORAGE CABINET OR INDUSTRIAL SHELVING	------	------		●	●															OWNER TO DETERMINE QUANTITES OF EACH UNIT
33	GERMICIDAL GOGGLE CABINET	SELLSTROM	GRAINGER #2KMC1		●			●					120			●					7.5' CORD, 3 WIRE PLUG
34	POWER CORD REELS				●			●		–	–	–	–	–	–			–	–	–	REQUIRED AT EACH BENCH, SEE ELECTRICAL DRAWINGS



1 SECTION AT DUST COLLECTOR
M-102.2 | M-102.2 SCALE: 1/8" = 1'-0"



2 TYPICAL STRATIFICATION FAN
M-102.2 | M-102.2 SCALE: N.T.S.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
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ph: 203-866-5318 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT · PROFESSIONAL ENGINEER · No. 22211
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA B2 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045117M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

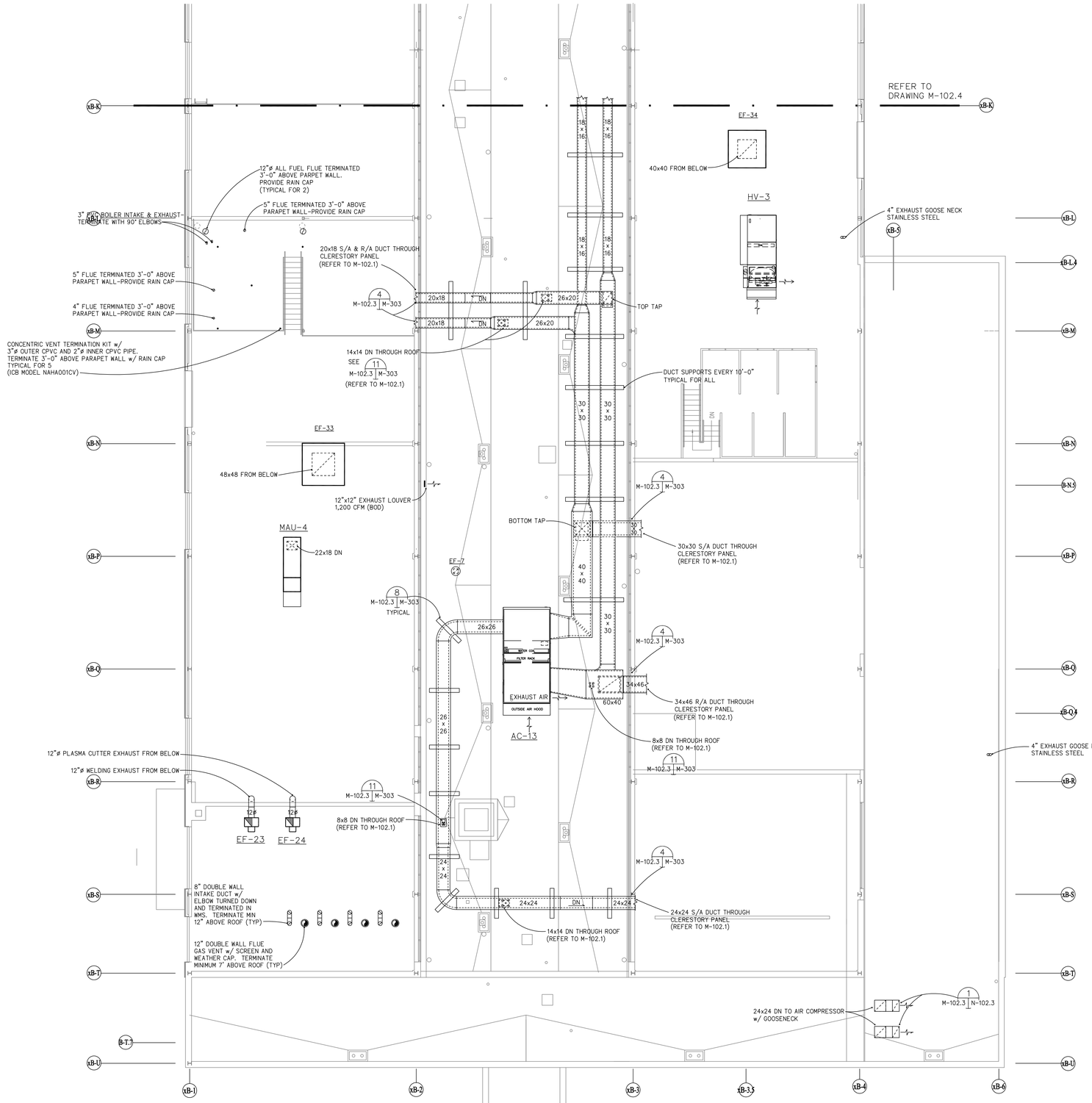
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

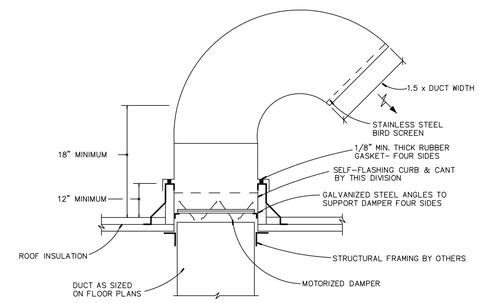
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

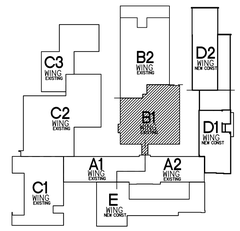
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-102.2

FILE:045117M FILE:045118b REV:02/01/2007 17:15 REV:08/19/12 08:44 FILE:045117bg REV:04/25/2012 09:22





1 GOOSENECK DETAIL
M-102.3 M-102.3



ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA B1 ROOF MECHANICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045136M	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	ASW
Approved By	PCS
Drawing No.	M-102.3

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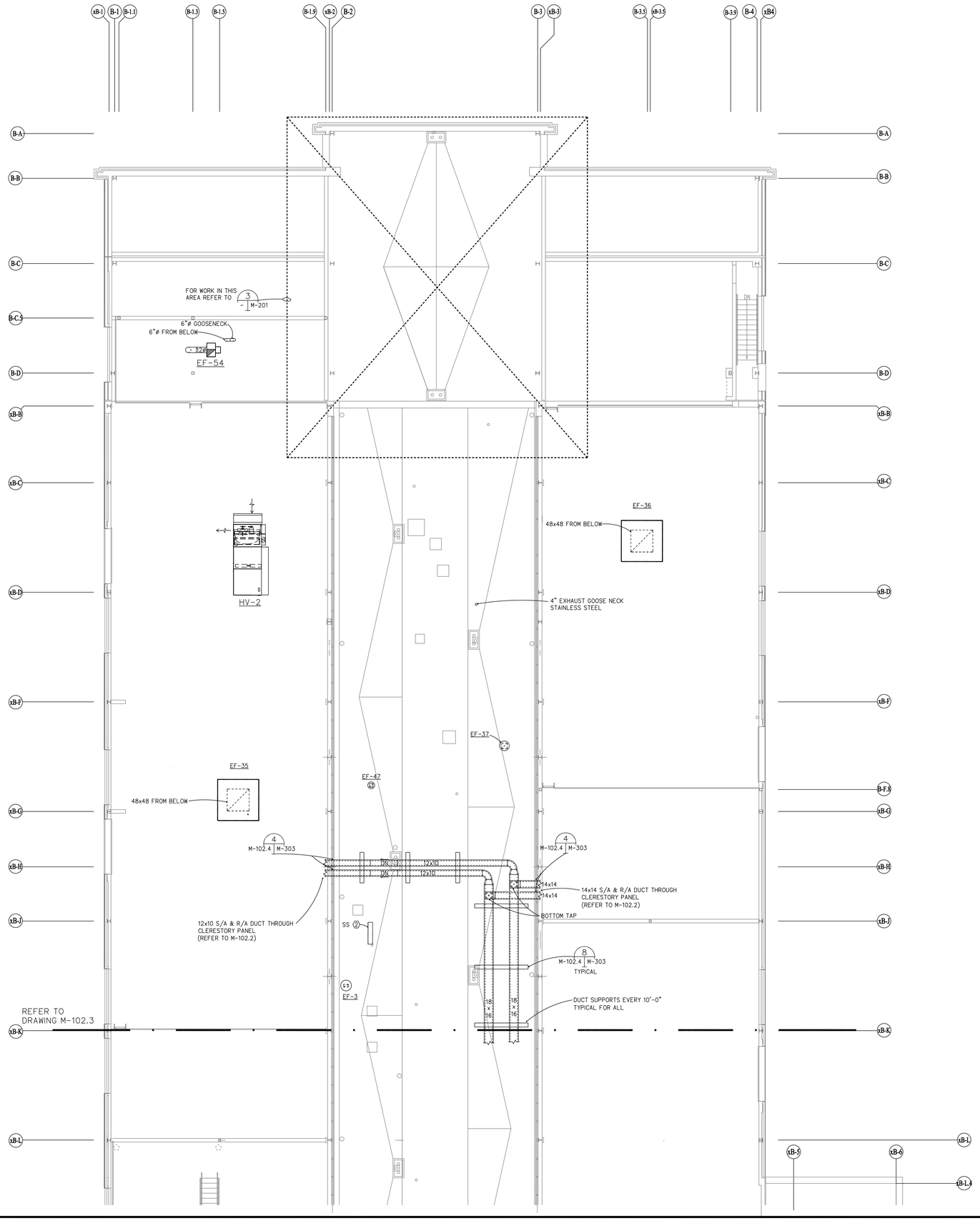

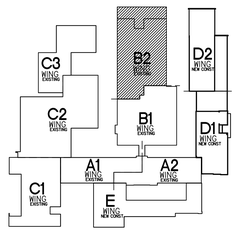

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 22272
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA B2 ROOF MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045137M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R7-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By AGW
Approved By PCS
Drawing No. M-102.4

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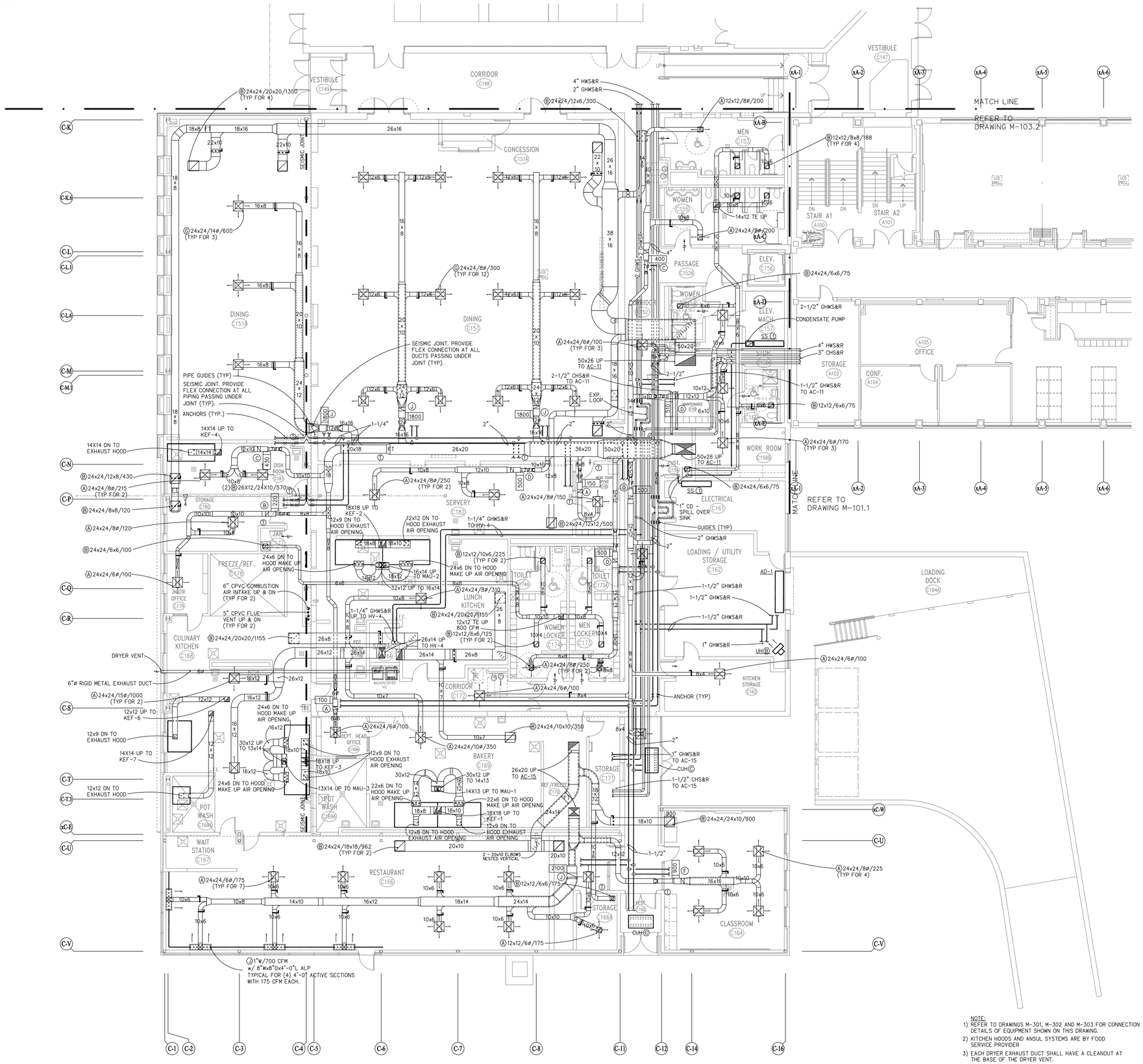

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NOTE:
1) REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.
2) KITCHEN HOODS AND ANSUL SYSTEMS ARE BY FOOD SERVICE PROVIDER
3) EACH DRYER EXHAUST DUCT SHALL HAVE A CLEANOUT AT THE BASE OF THE DRYER VENT.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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Professional Seal & Signature
STATE OF CONNECTICUT · PROFESSIONAL ENGINEER · No. 22211
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C1 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045118M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.1

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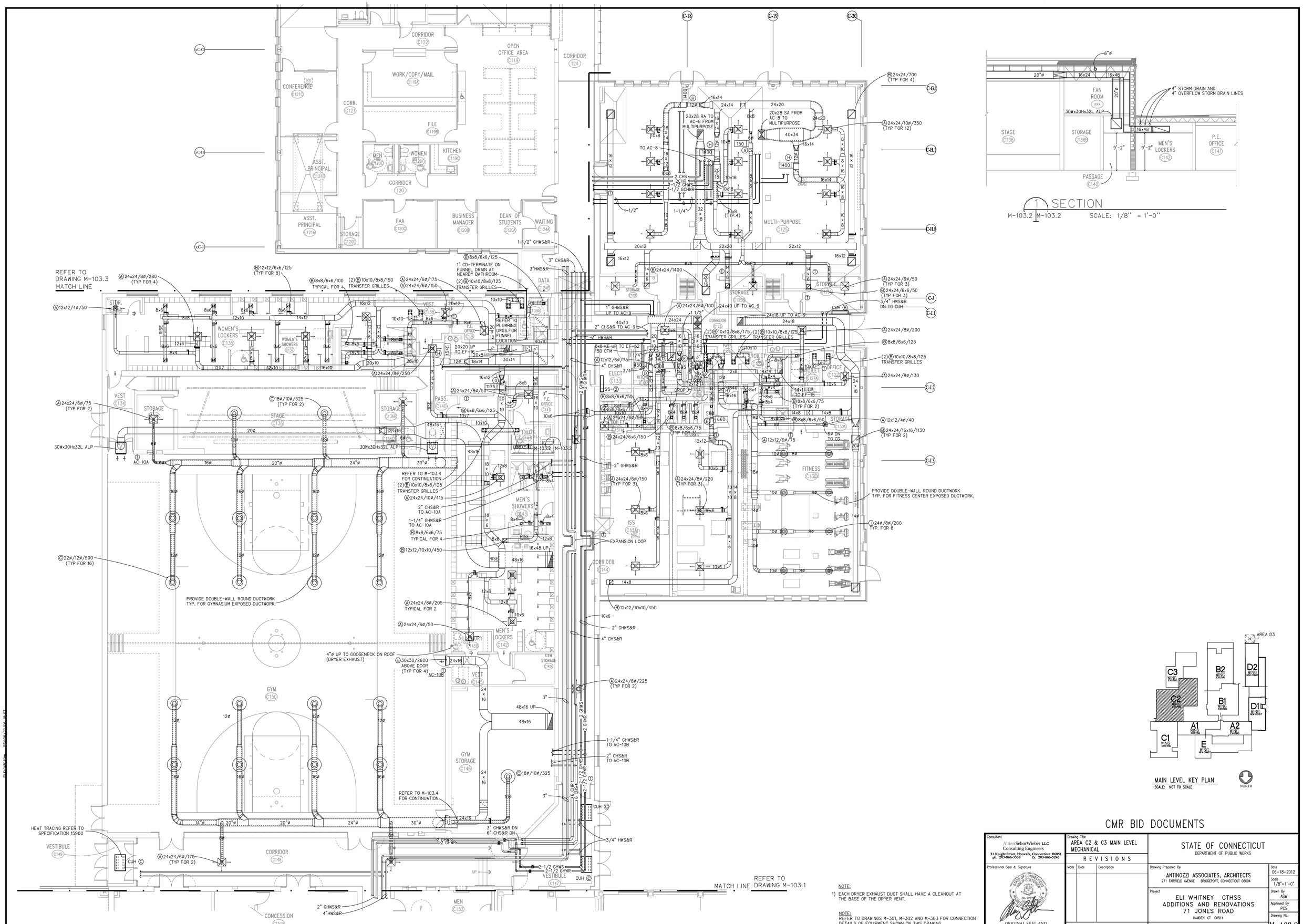

NOTE:

1) EACH DRYER EXHAUST DUCT SHALL HAVE A CLEANOUT AT THE BASE OF THE DRYER VENT.

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeboriWieber LLC
Consulting Engineers
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Professional Seal & Signature
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 20272
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 & C3 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045119M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

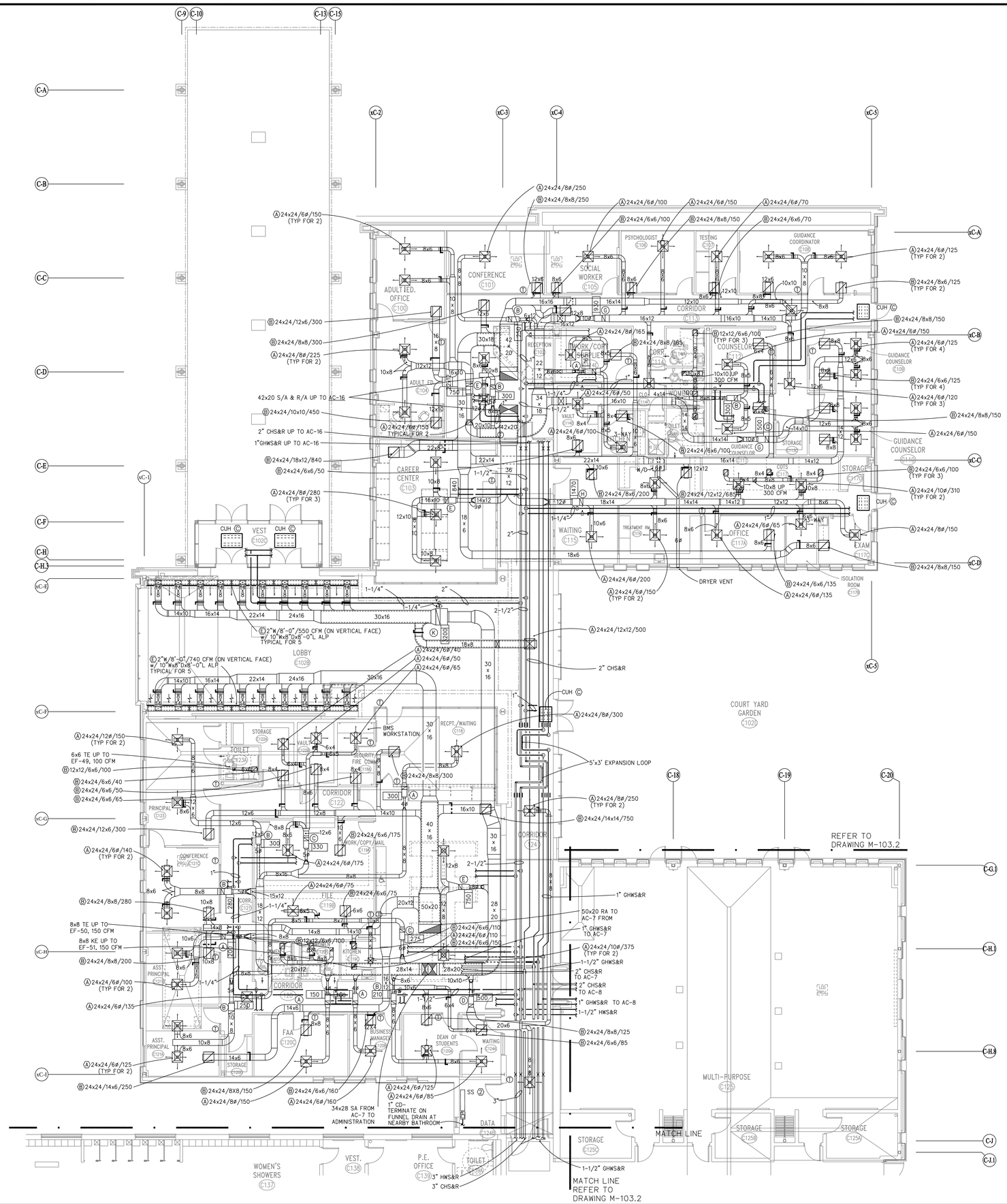
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

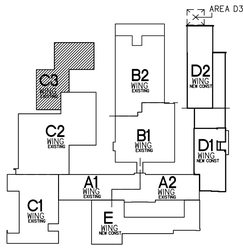
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. B1-R7-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.2

FILE:045119b REV:02/01/2007 17:15 FILE:045119m REV:06/18/12 17:51 FILE:045119bg REV:04/24/2012 15:32 FILE:045119m REV:06/22/12 15:07





MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
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31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT · PROFESSIONAL ENGINEER · No. 22011 · ANTINOZZI ASSOCIATES, ARCHITECTS

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C3 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045110M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.3

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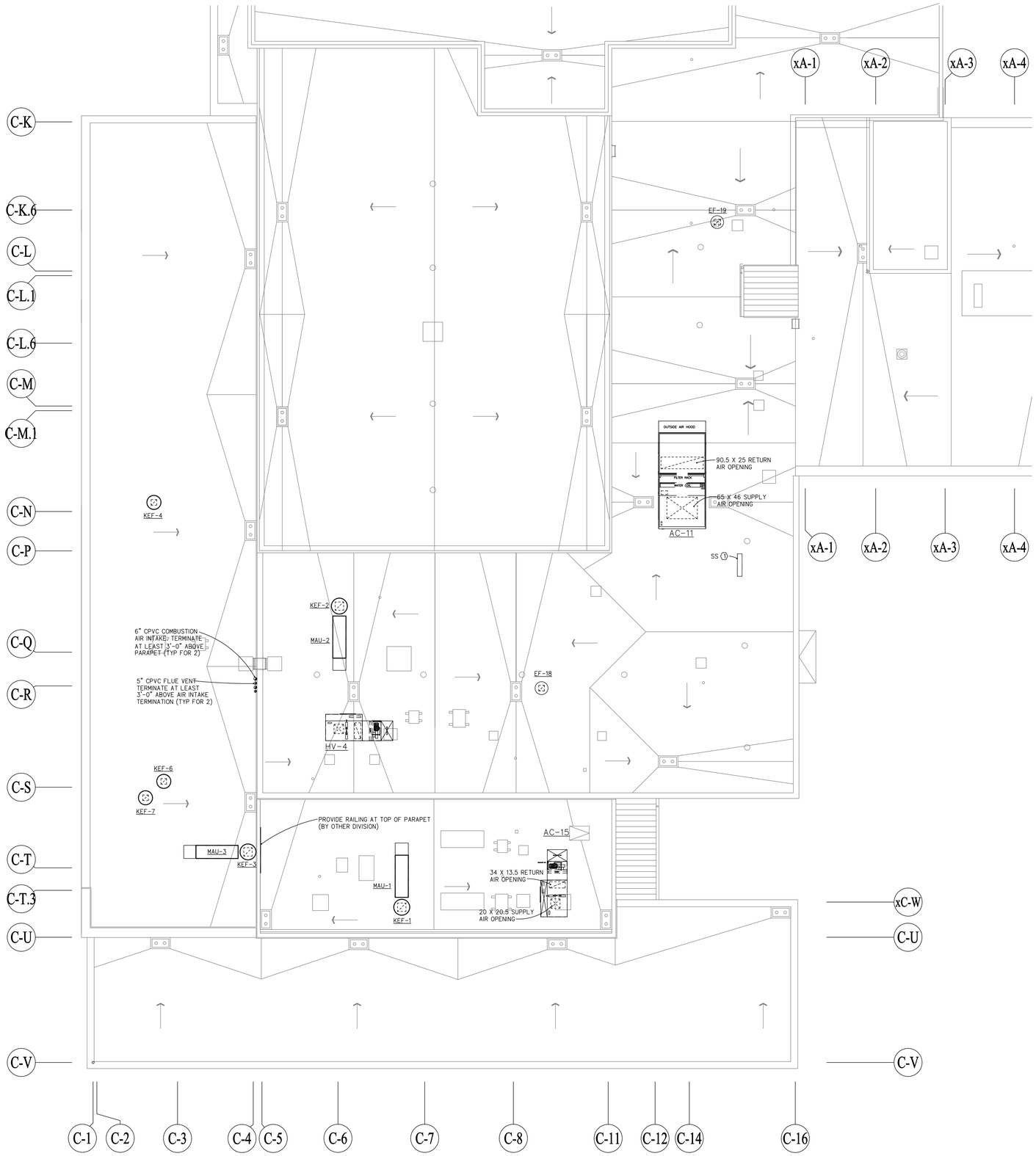

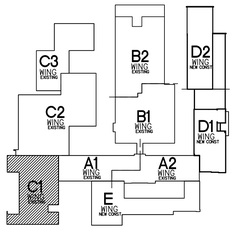

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
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Professional Seal & Signature
STATE OF CONNECTICUT · PROFESSIONAL ENGINEER · No. 22077
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C1 ROOF MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045140M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.4

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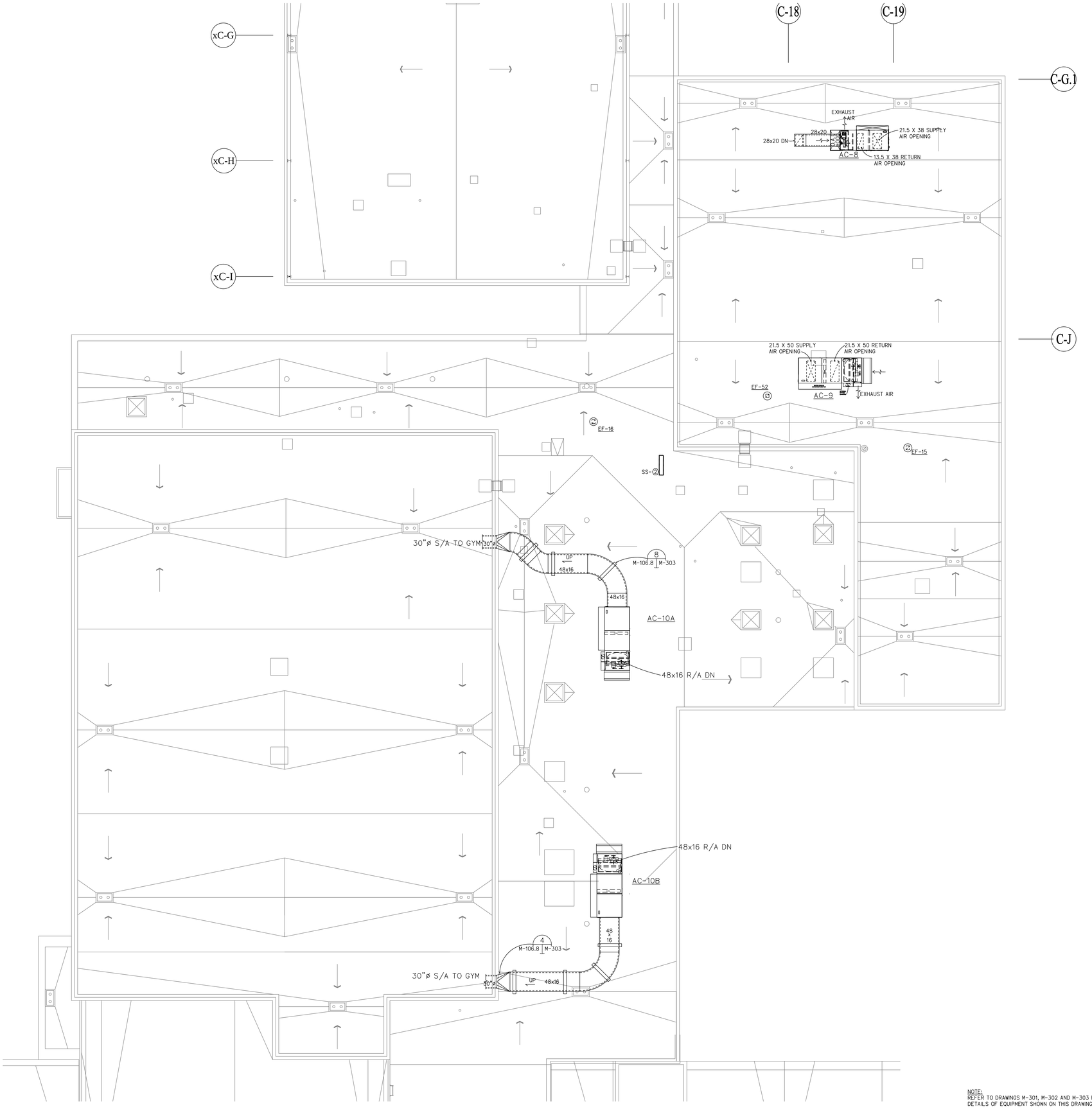

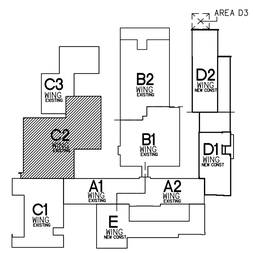

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 & C3 ROOF MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045138M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.5

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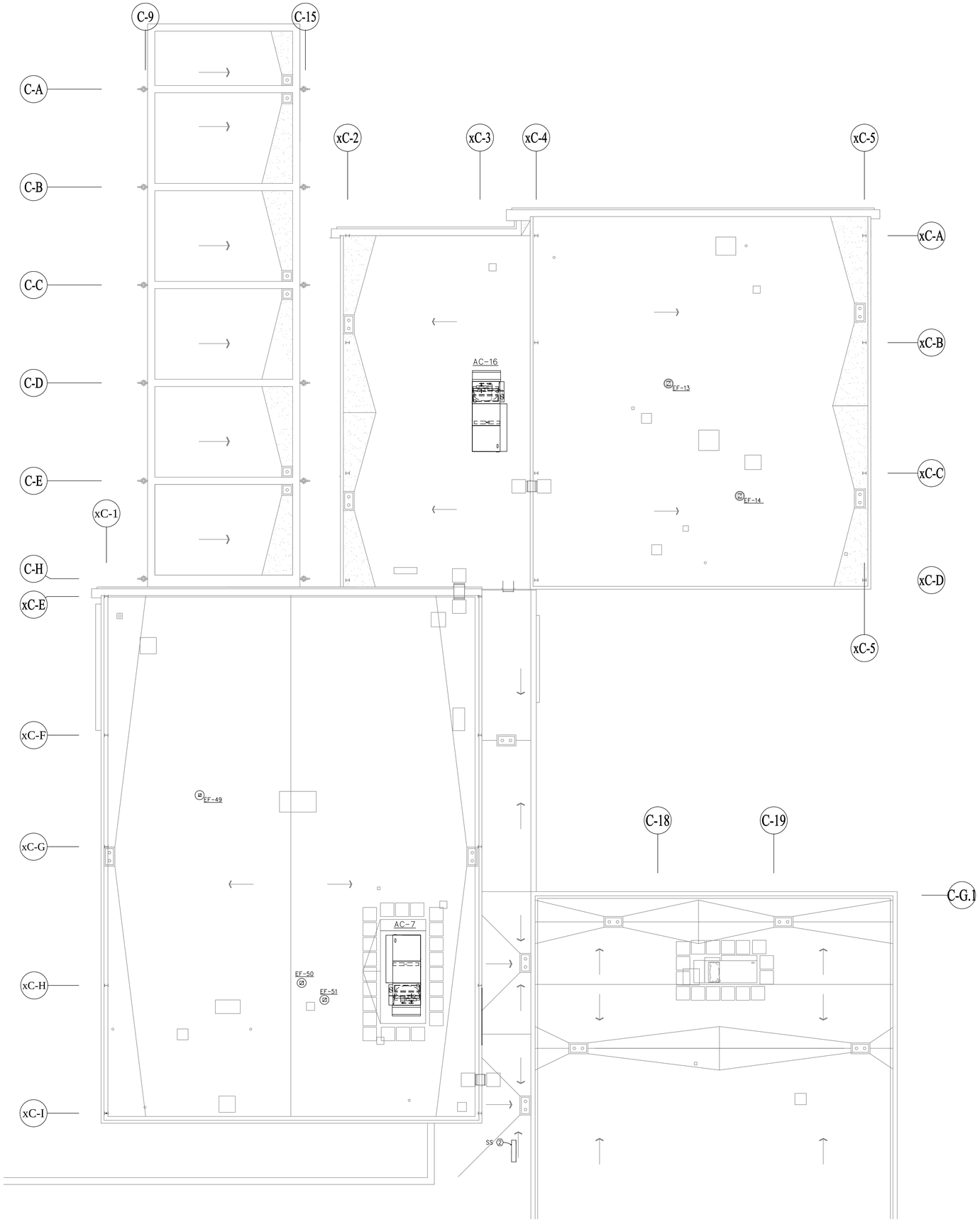

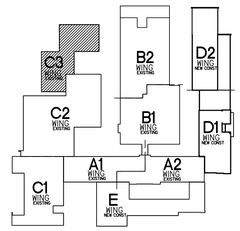

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeboriWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C3 ROOF
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045139M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-103.6

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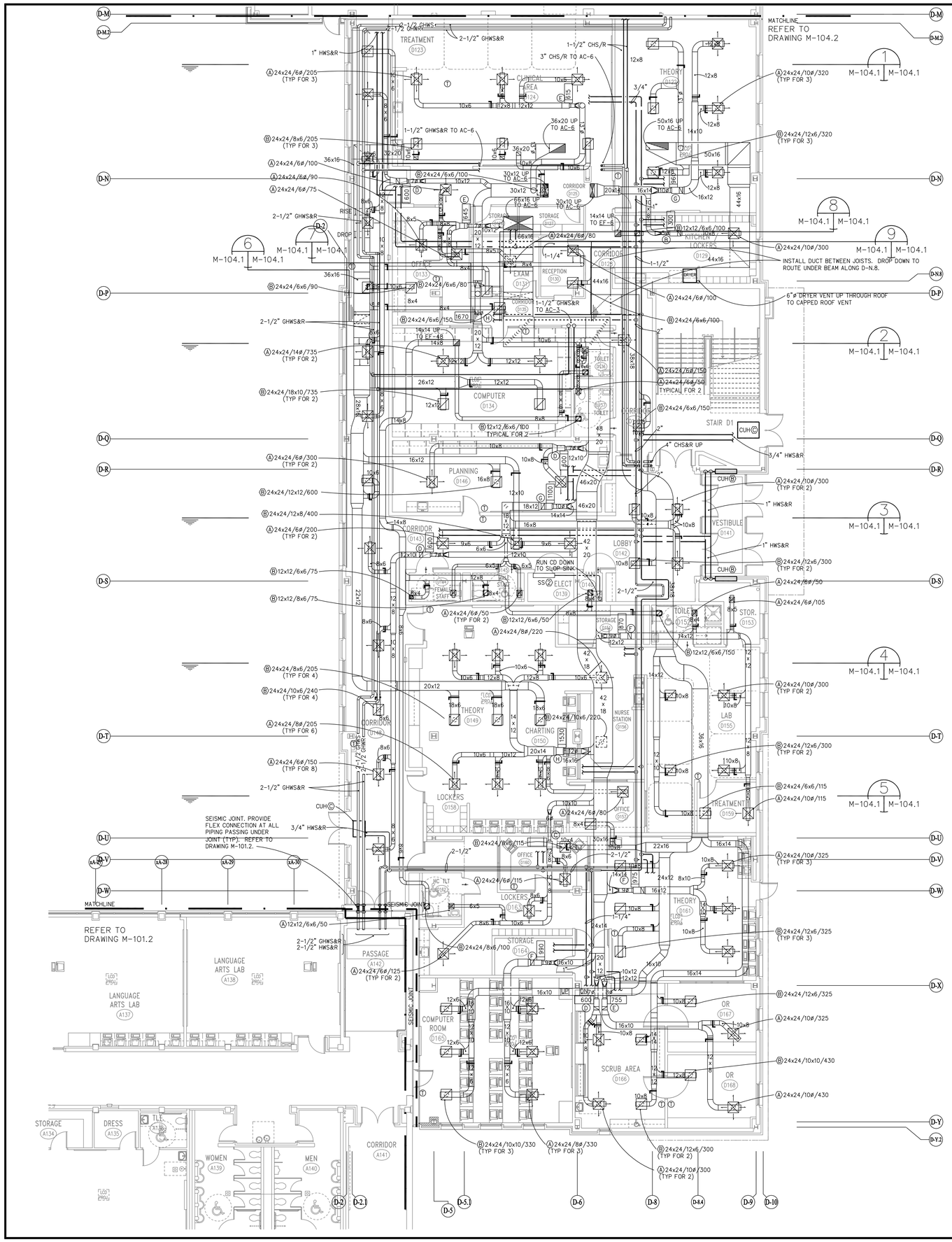

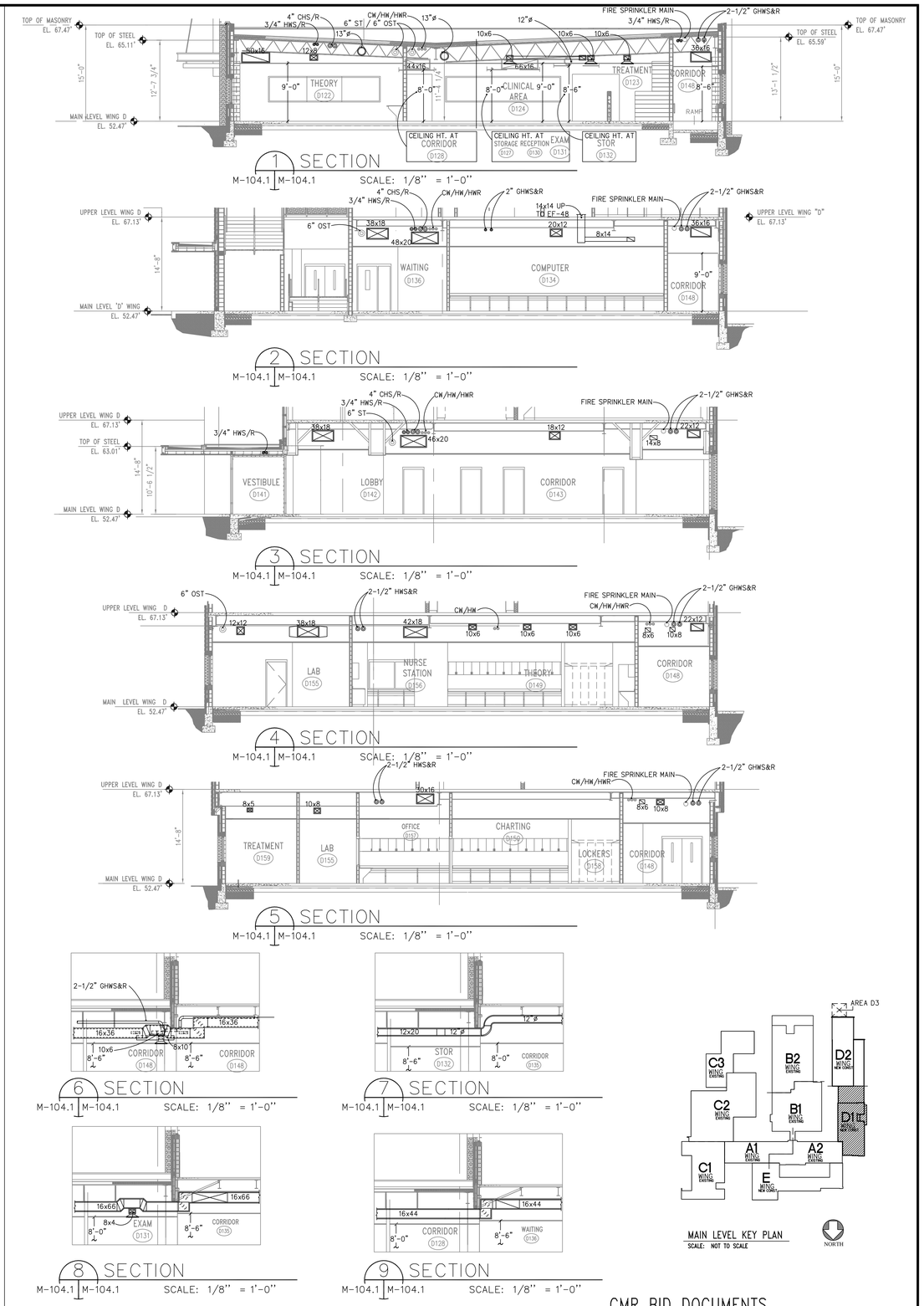

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
1) EACH DRYER EXHAUST DUCT SHALL HAVE A CLEANOUT AT THE BASE OF THE DRYER VENT.

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5318 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT
PAUL D. ROY
No. 20732
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045112M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.1

REV06/15/12 09:38
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REV02/01/2007 17:15 FILE:045112bg
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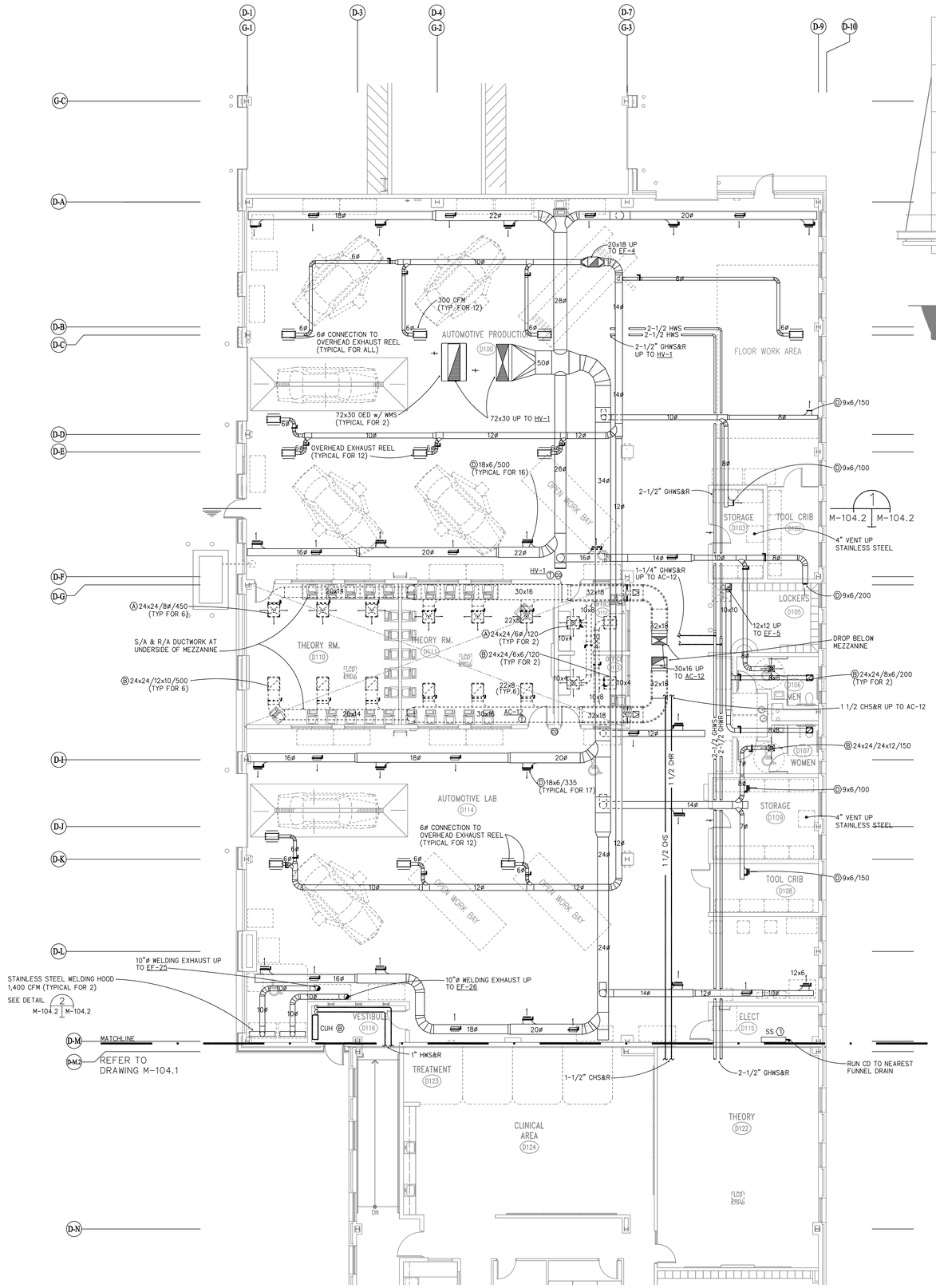
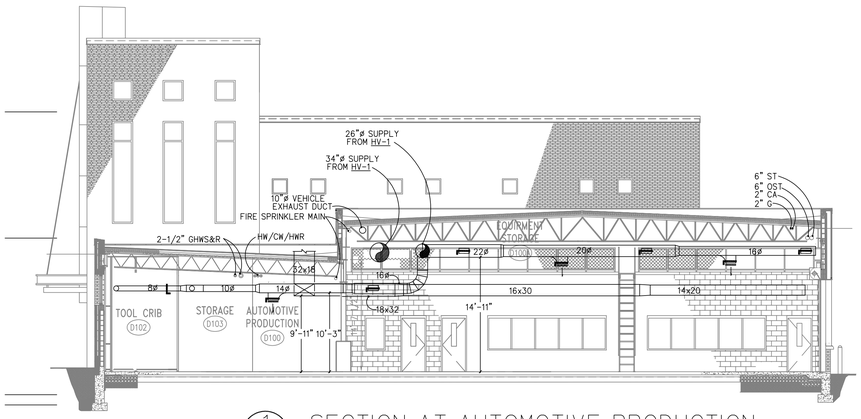
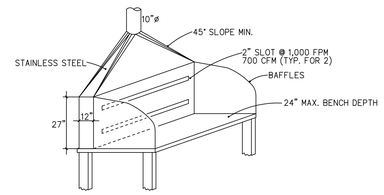




1 SECTION AT AUTOMOTIVE PRODUCTION

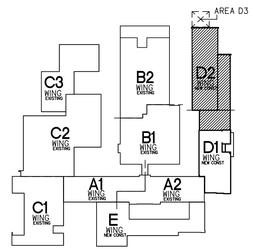
M-104.2 | M-104.2 SCALE: 1/8"=1'-0"



2 WELDING HOOD DETAIL

M-104.2 | M-104.2 NOT TO SCALE

NOTE:
WELDING HOODS FURNISHED AND INSTALLED BY DIVISION 23.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D2 MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045111M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.2

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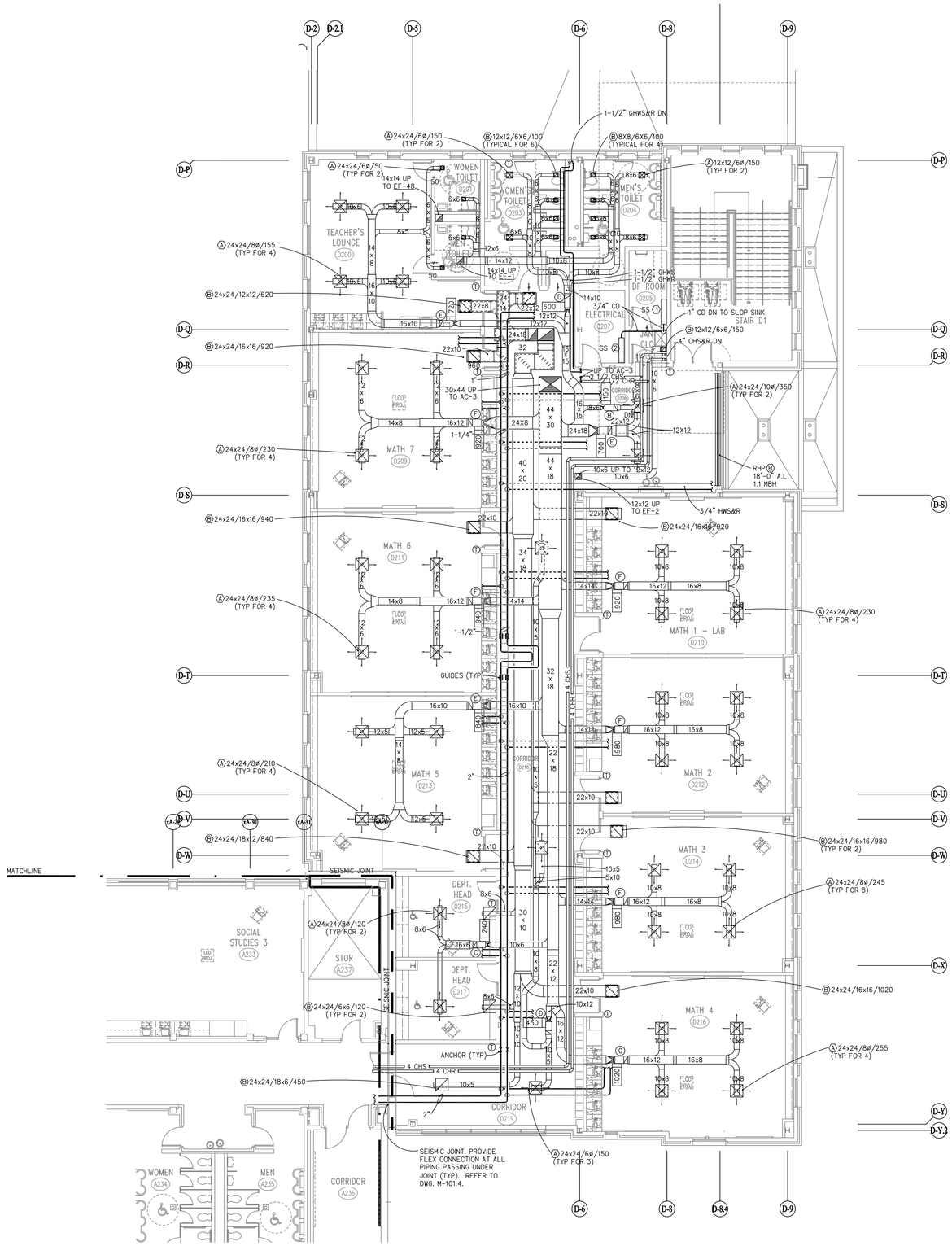
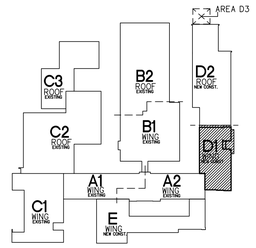




UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 UPPER LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045122M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

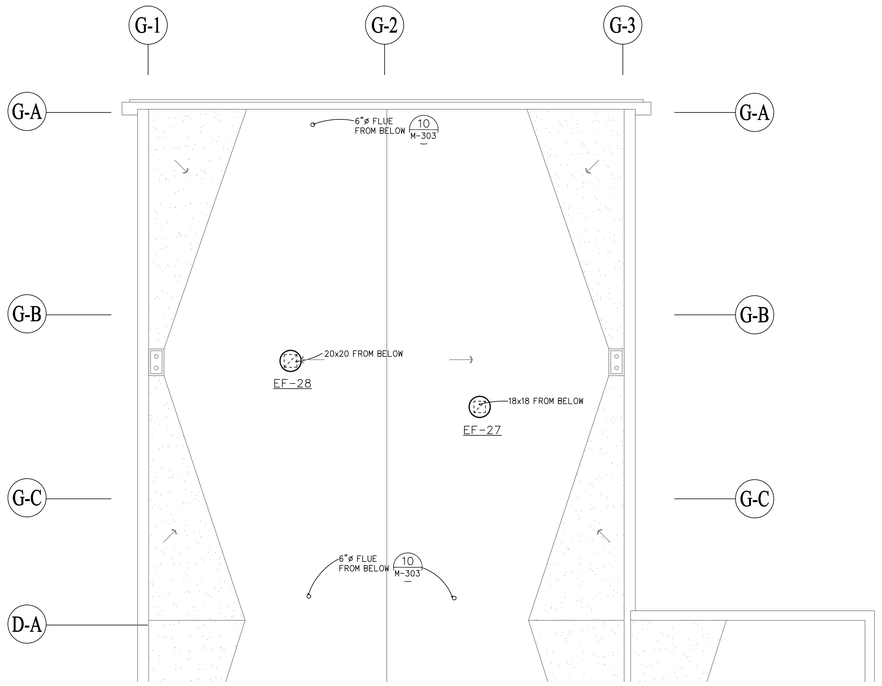
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

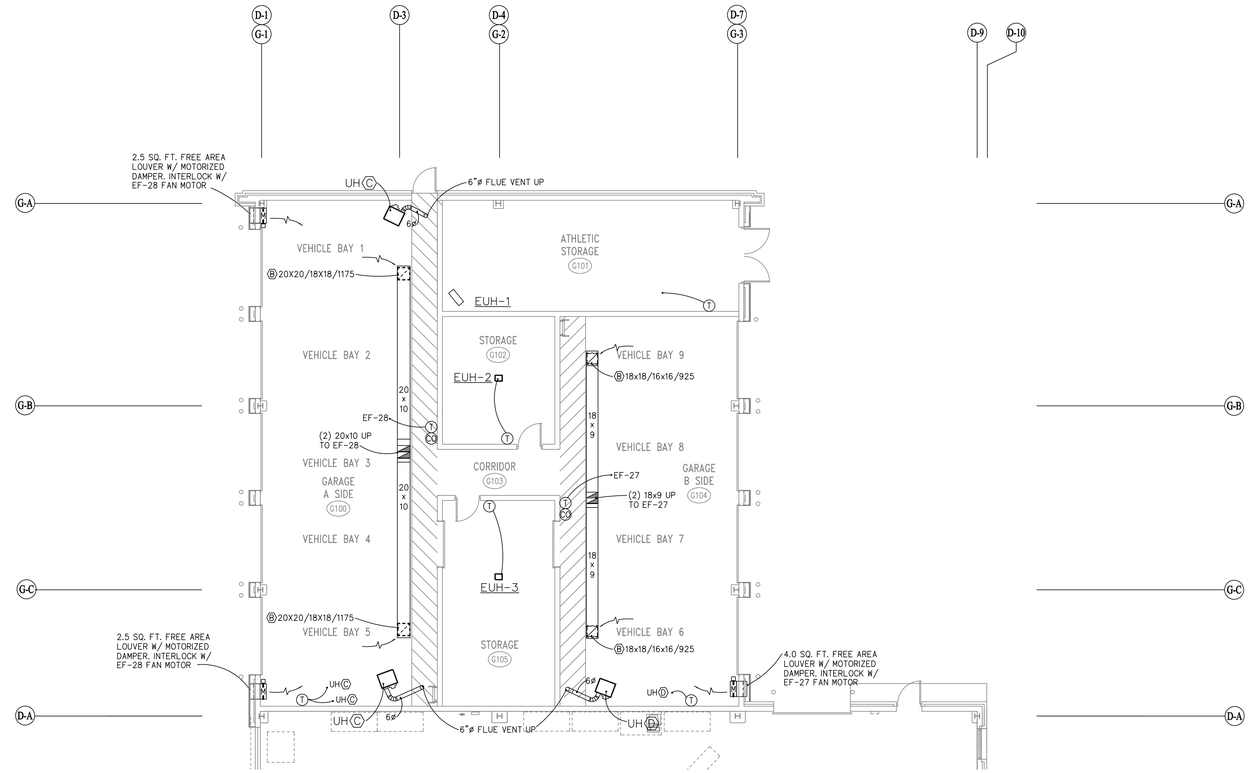
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.3

FILE:045115b REV02/01/2007 17:15 FILE:045122M REV06/**REV08/REV09**/2012 09:34 REV04/26/2012 11:43



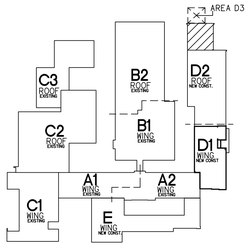
1 "D3" BUILDING ROOF PARTIAL PLAN

M-104.4 | M-104.4 SCALE: 1/8" = 1'-0"



2 "D3" BUILDING PARTIAL PLAN

M-104.4 | M-104.4 SCALE: 1/8" = 1'-0"



UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

Consultant
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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D3 MAIN LEVEL
MECHANICAL - SUPP. BID

REVISIONS

Mark	Date	Description

CAD No. 0451SGM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.4

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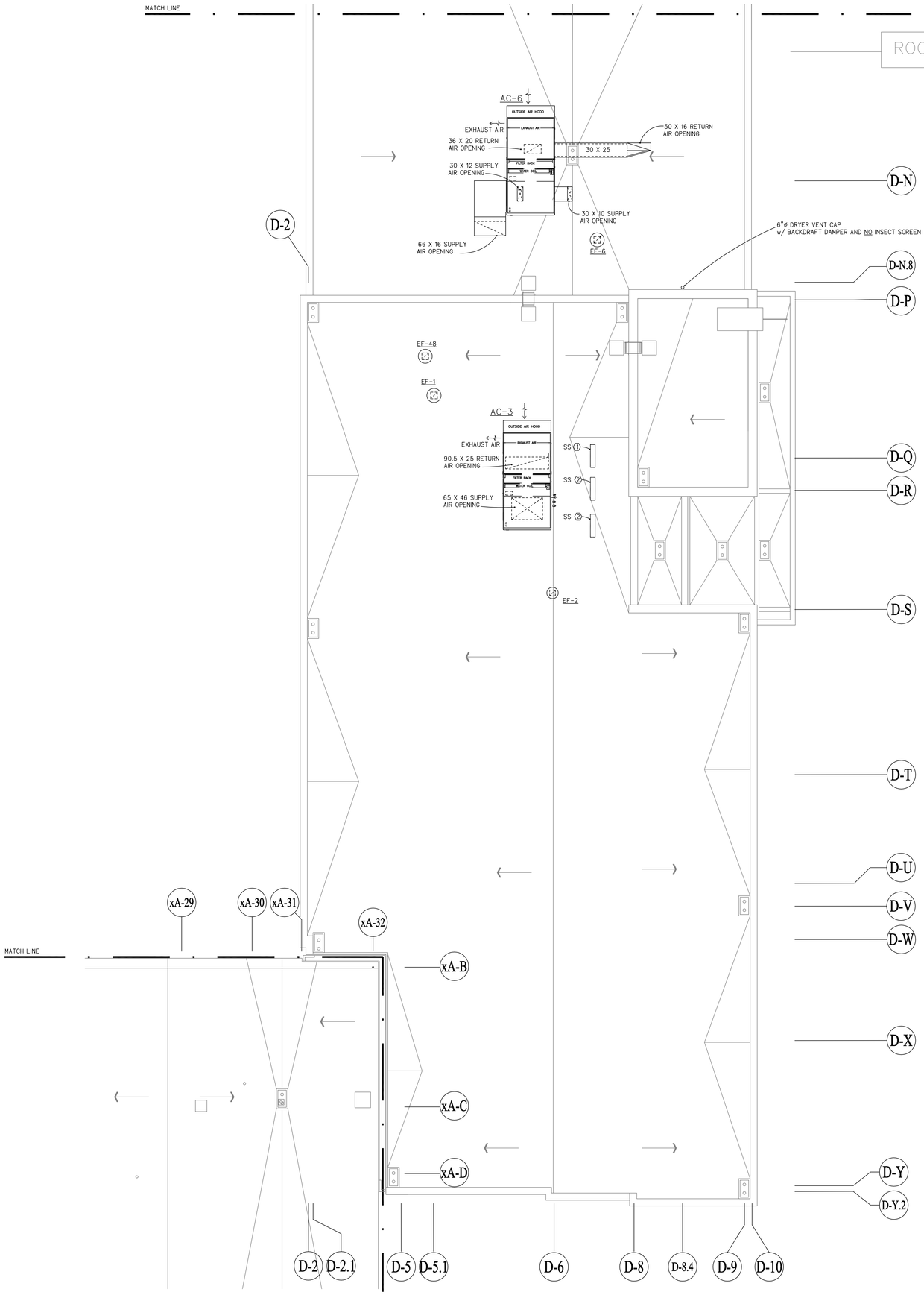
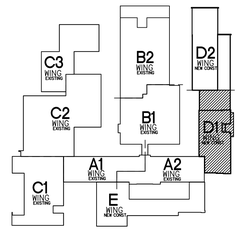
FILE:0451b REV:02/01/2007 17:15





ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 ROOF PLAN
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045132M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.5

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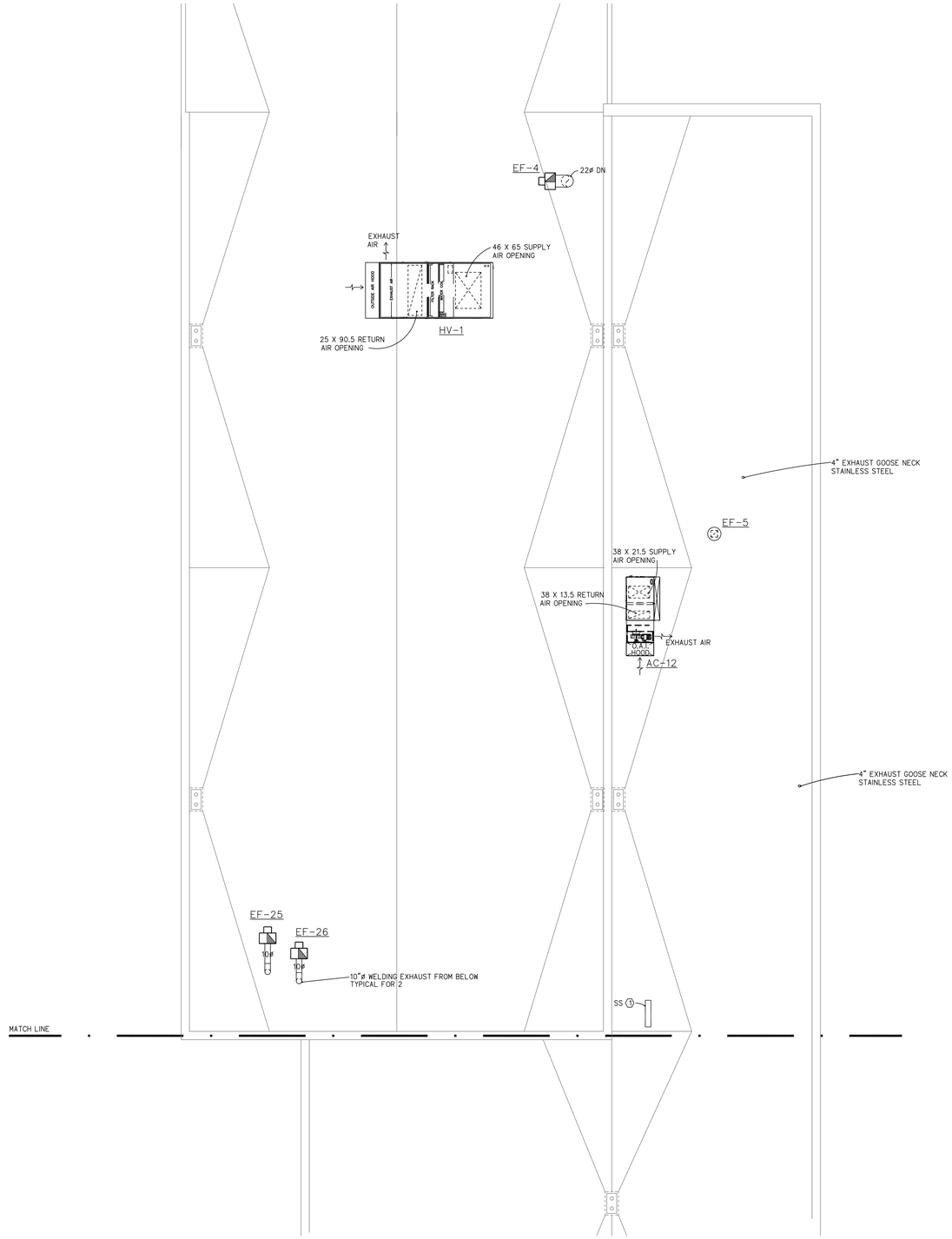

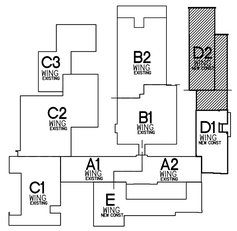

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
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Professional Seal & Signature
STATE OF CONNECTICUT
PHILIP C. BYRNES
No. 22278
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D2 ROOF PLAN
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No.
045131M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-104.6

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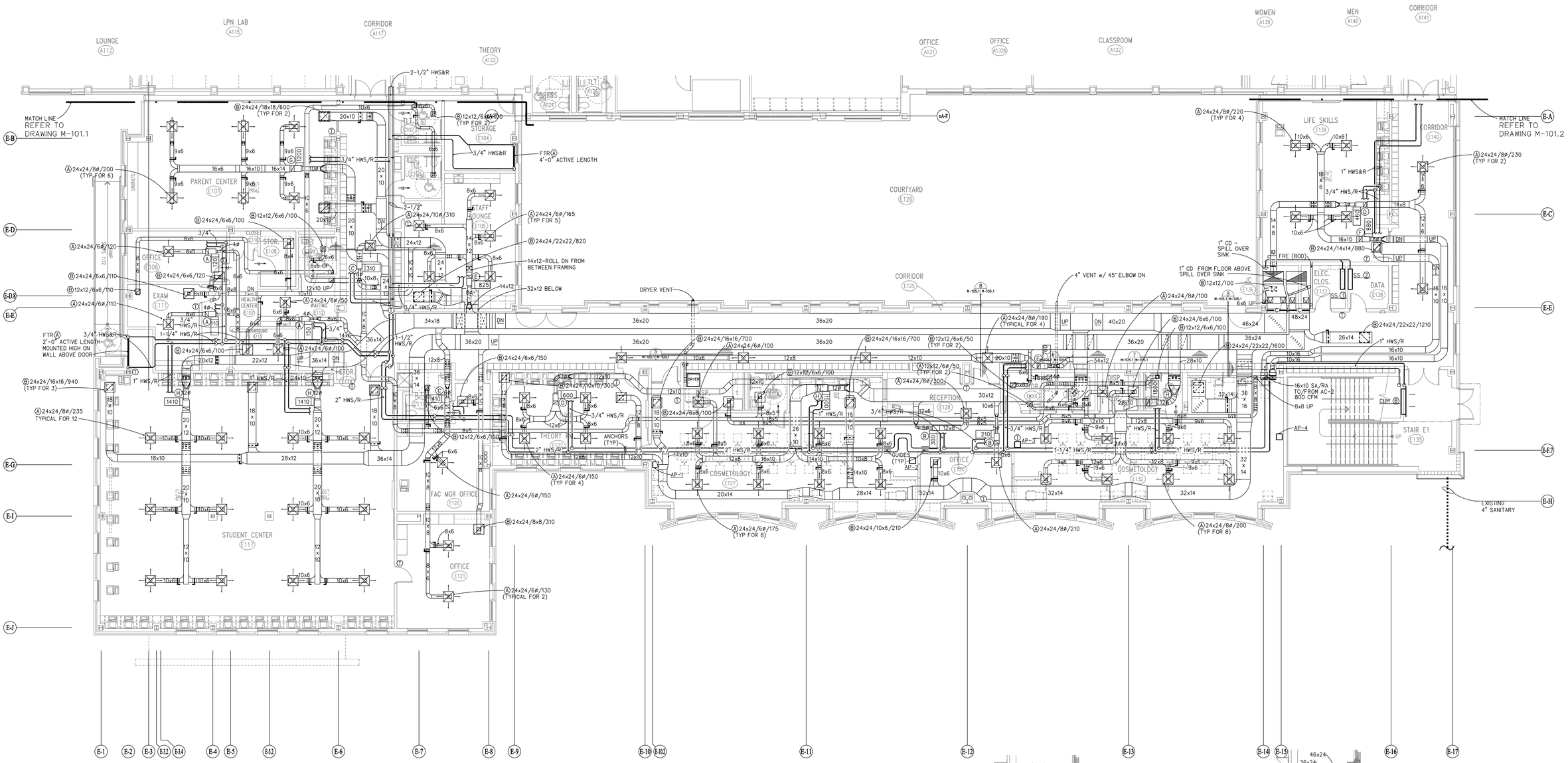

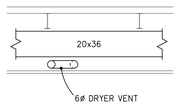

5 HALLWAY SECTION
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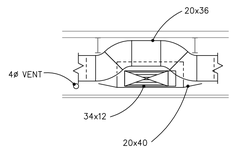

6 HALLWAY SECTION
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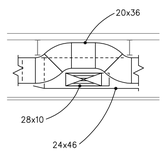

7 HALLWAY SECTION
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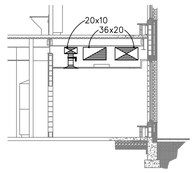

8 HALLWAY SECTION
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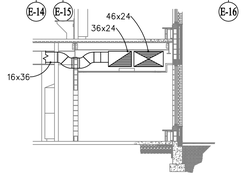

9 HALLWAY SECTION
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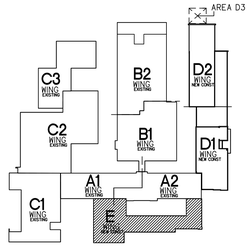

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
1) EACH DRYER EXHAUST DUCT SHALL HAVE A CLEANOUT AT THE BASE OF THE DRYER VENT.

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E MAIN LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045114M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-105.1

FILE:045114bg REV:04/25/2012 10:28
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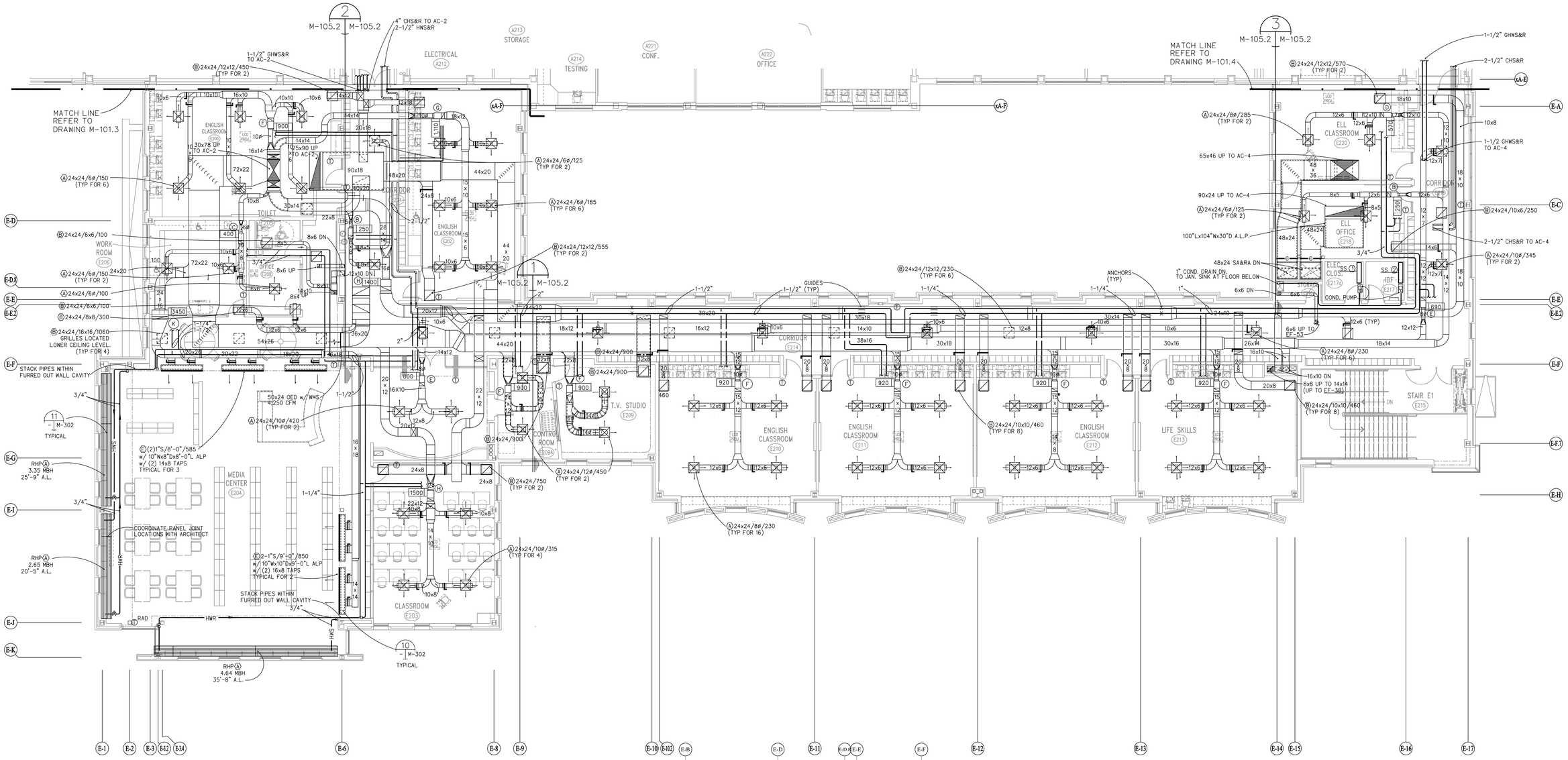
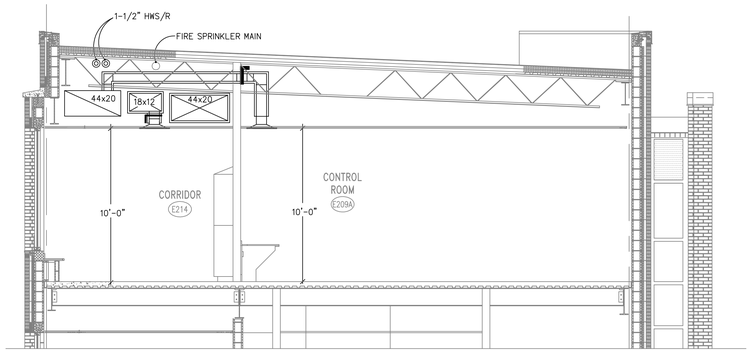
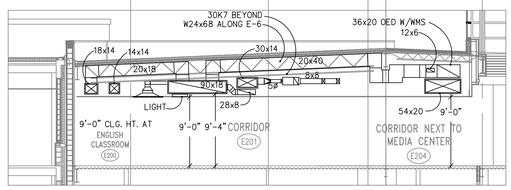
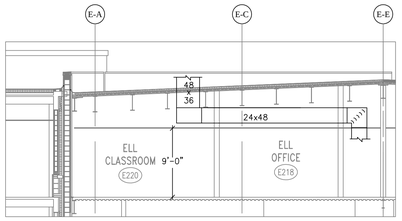




1 SECTION AT CORRIDOR
M-105.2 | M-105.2 SCALE: 1/4" = 1'-0"



2 SECTION AT CORRIDOR E201
M-105.2 | M-105.2 SCALE: 1/8" = 1'-0"



3 SECTION AT ELL CLASSROOM E220
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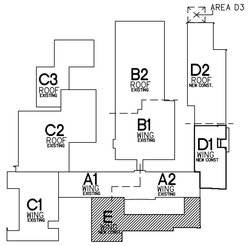

UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E UPPER LEVEL MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045124M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. M-105.2

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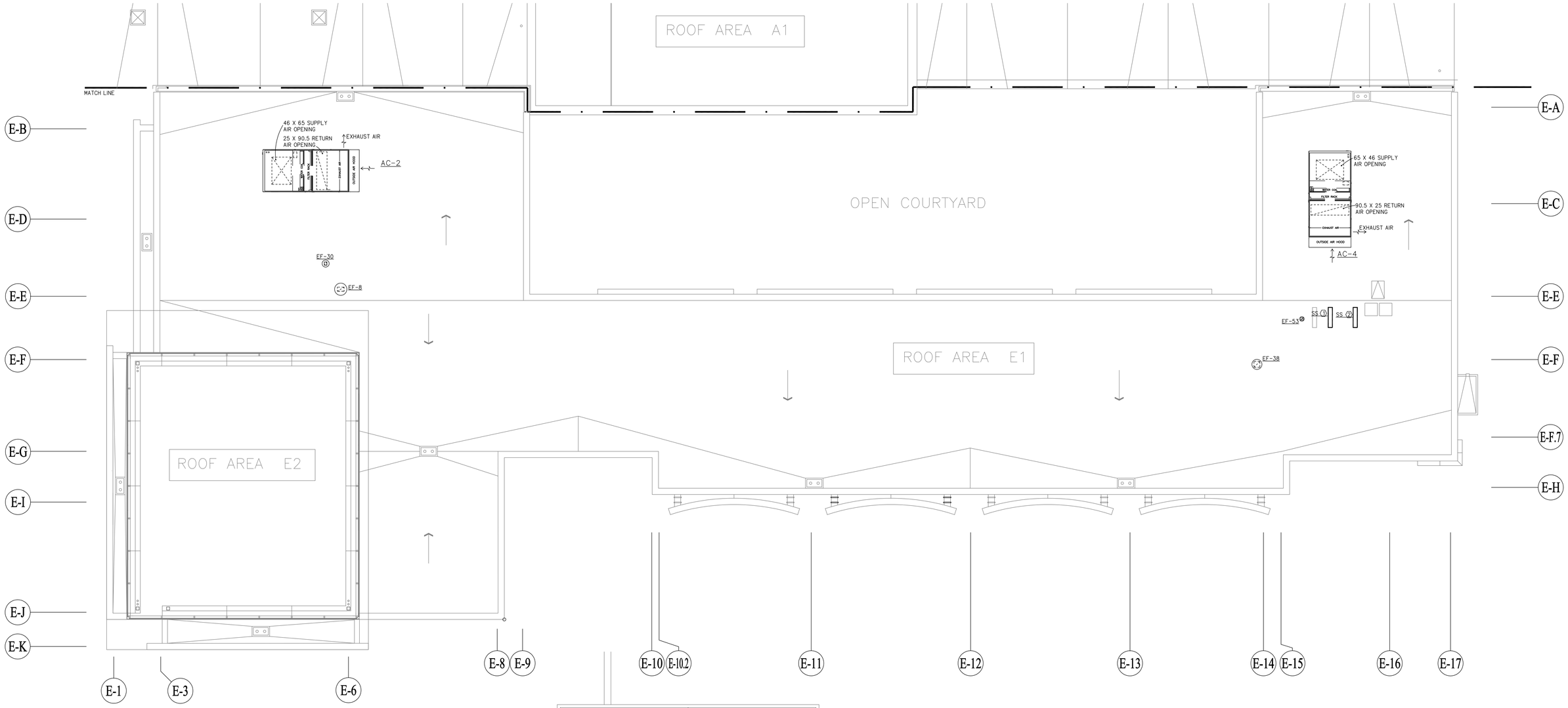

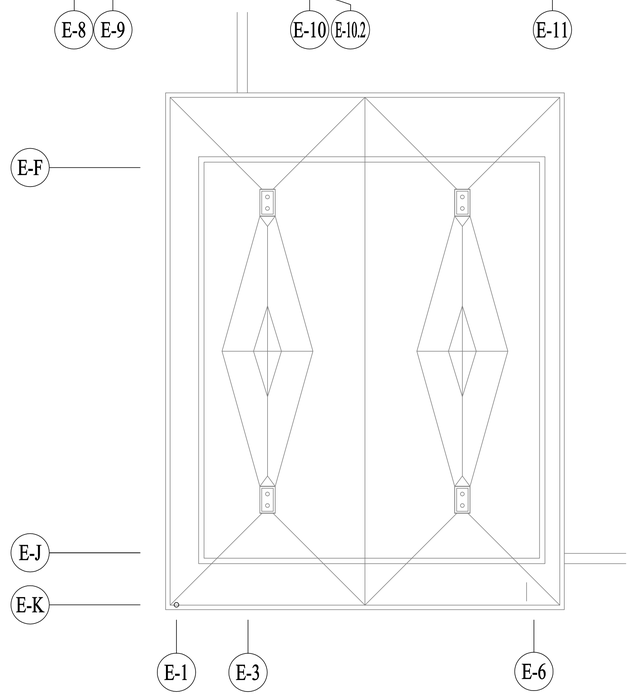

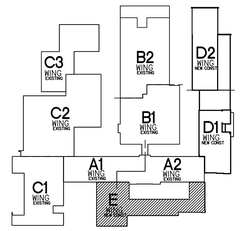

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:
REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.

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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
STATE OF CONNECTICUT
PAUL C. SEBOR
No. 20218
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E ROOF PLAN
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 045134M

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

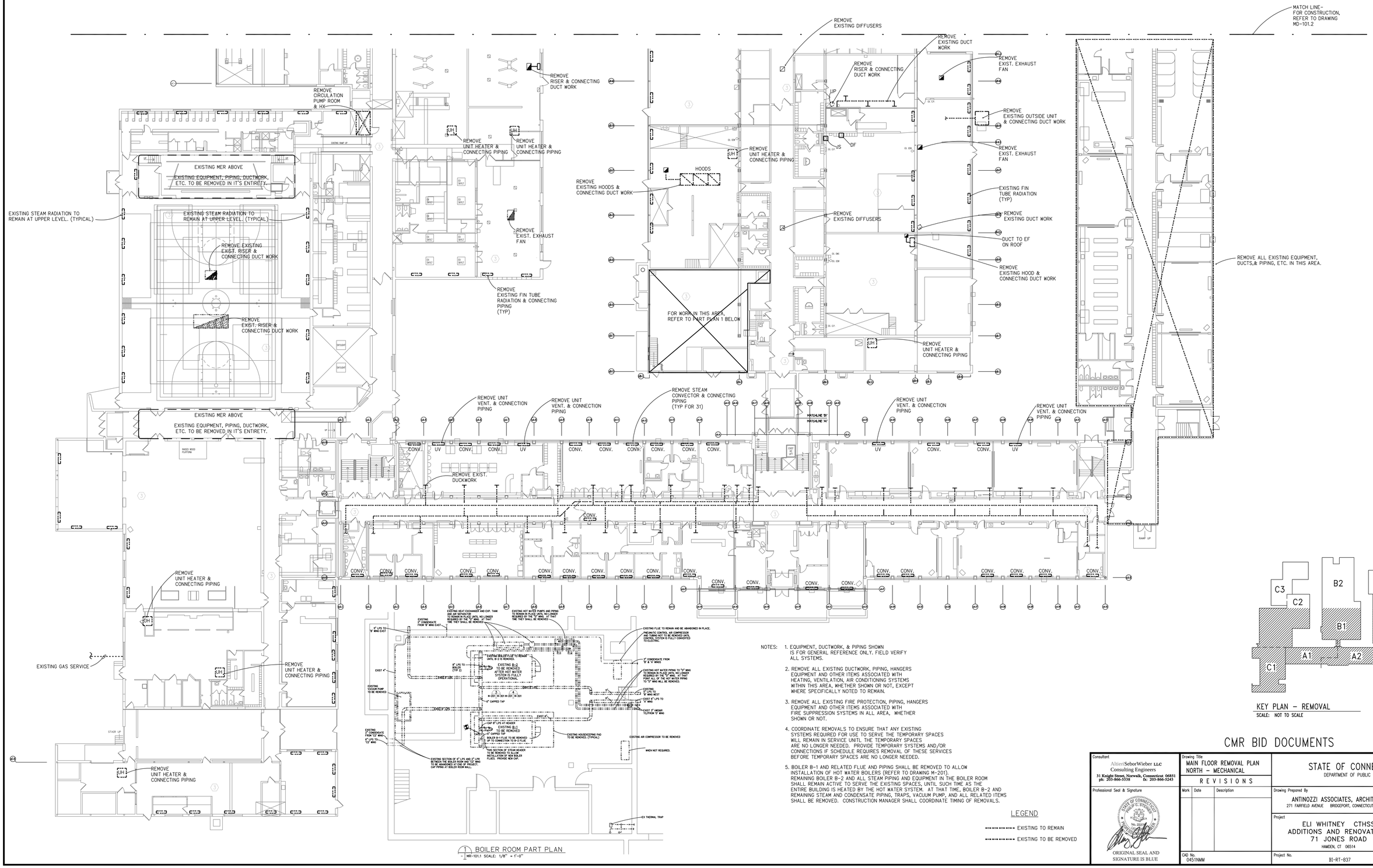
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By AGW
Approved By PCS
Drawing No. M-105.3

FILE:045116 REV:02/01/2007 17:15 FILE:045134M REV:06/15/12 08:59 FILE:045134G REV:02/21/2008 11:32 FILE:045134M REV:06/22/06 12:38



CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MAIN FLOOR REMOVAL PLAN
NORTH - MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451NMM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By
Approved By PCS
Drawing No. MR-101.1

FILE:0451b REV:02/01/2007 17:15 FILE:0451nmbg REV:08/26/2008 07:27 FILE:0451NMM REV:05/12/06 11:34
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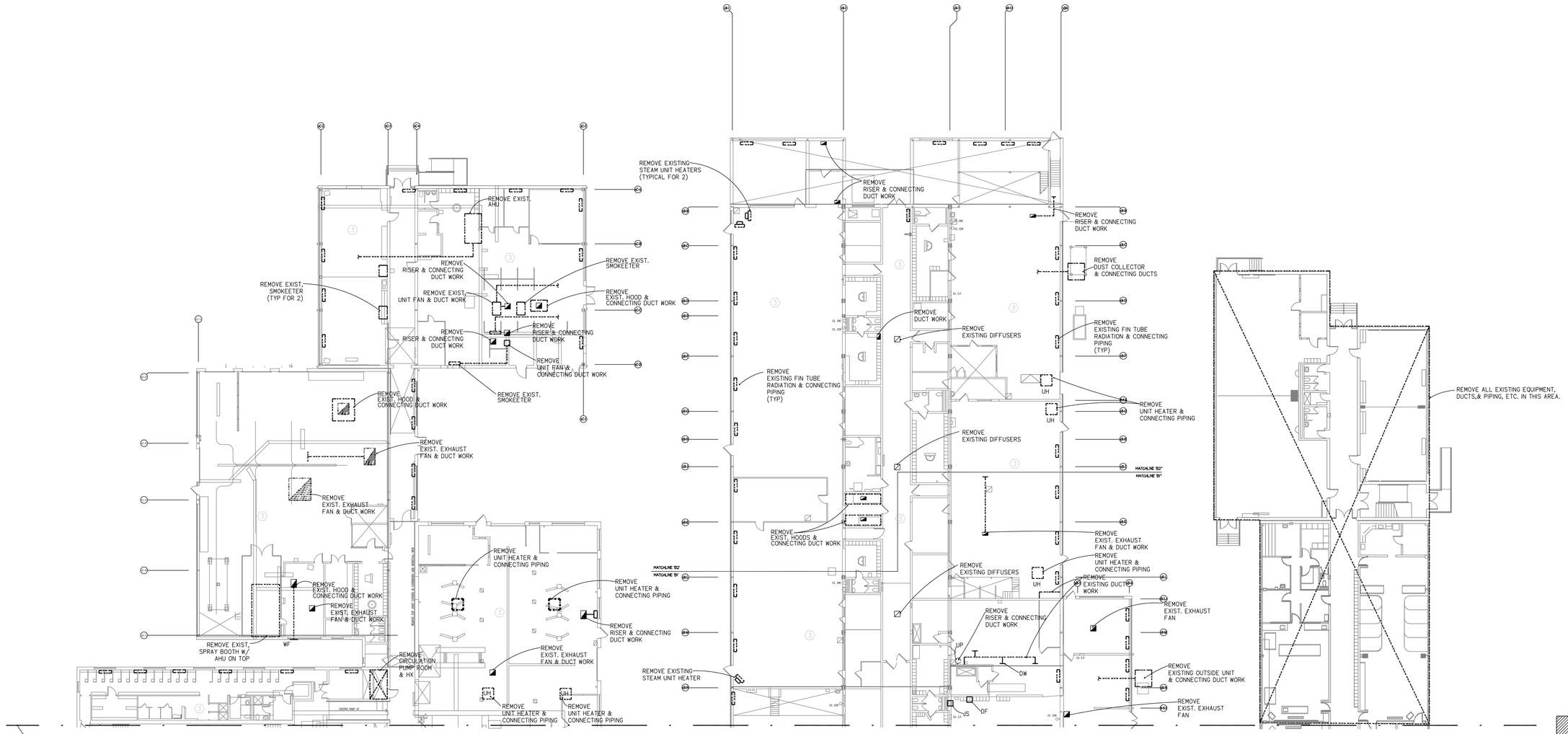
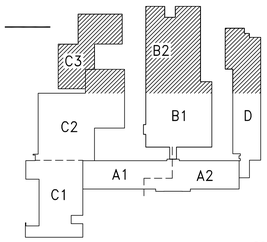




KEY PLAN – REMOVAL
SCALE: NOT TO SCALE

NORTH

NOTES:

1. EQUIPMENT, DUCTWORK, & PIPING SHOWN IS FOR GENERAL REFERENCE ONLY. FIELD VERIFY ALL SYSTEMS.
2. REMOVE ALL EXISTING DUCTWORK, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH HEATING, VENTILATION, AIR CONDITIONING SYSTEMS WITHIN THIS AREA, WHETHER SHOWN OR NOT, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN.
3. REMOVE ALL EXISTING FIRE PROTECTION, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH FIRE SUPPRESSION SYSTEMS IN ALL AREA, WHETHER SHOWN OR NOT.
4. COORDINATE REMOVALS TO ENSURE THAT ANY EXISTING SYSTEMS REQUIRED FOR USE TO SERVE THE TEMPORARY SPACES WILL REMAIN IN SERVICE UNTIL THE TEMPORARY SPACES ARE NO LONGER NEEDED. PROVIDE TEMPORARY SYSTEMS AND/OR CONNECTIONS IF SCHEDULE REQUIRES REMOVAL OF THESE SERVICES BEFORE TEMPORARY SPACES ARE NO LONGER NEEDED.

LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MAIN FLOOR REMOVAL PLAN
SOUTH – MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 04515MM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

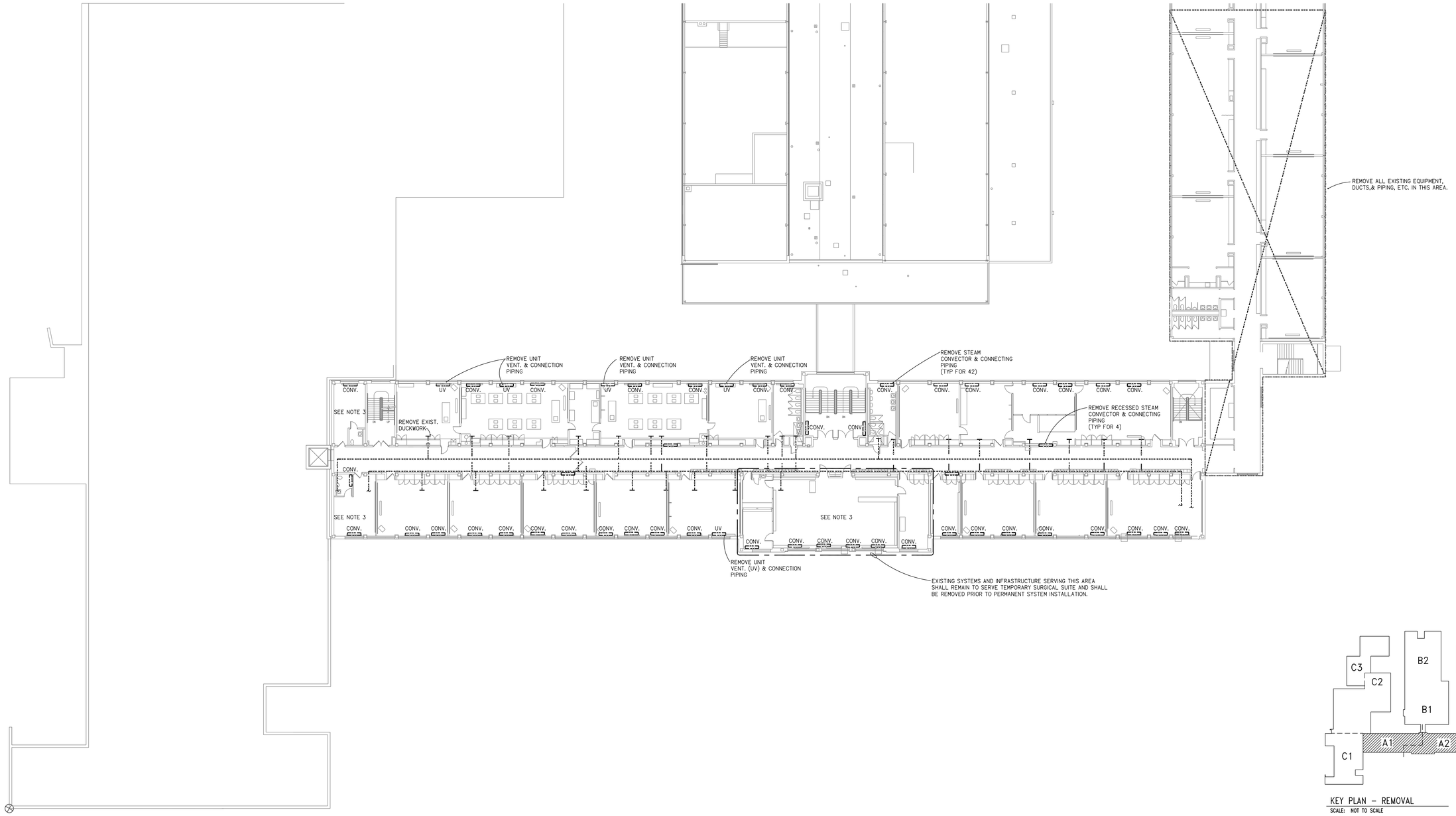
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

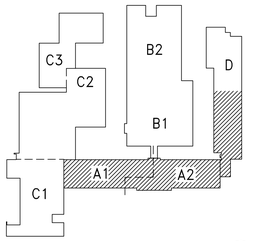
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. MR-101.2

FILE:04515MM REV:02/01/2007 REV:06/26/12 REV:08/28/2008 07:28 FILE:04515MM REV:06/22/06 08:38





KEY PLAN – REMOVAL

SCALE: NOT TO SCALE

NORTH

NOTES:

1. EQUIPMENT, DUCTWORK, & PIPING SHOWN IS FOR GENERAL REFERENCE ONLY. FIELD VERIFY ALL SYSTEMS.
2. REMOVE ALL EXISTING DUCTWORK, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH HEATING, VENTILATION, AIR CONDITIONING SYSTEMS WITHIN THIS AREA, WHETHER SHOWN OR NOT, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN.
3. REMOVE ALL EXISTING FIRE PROTECTION, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH FIRE SUPPRESSION SYSTEMS IN ALL AREA, WHETHER SHOWN OR NOT.
4. COORDINATE REMOVALS TO ENSURE THAT ANY EXISTING SYSTEMS REQUIRED FOR USE TO SERVE THE TEMPORARY SPACES WILL REMAIN IN SERVICE UNTIL THE TEMPORARY SPACES ARE NO LONGER NEEDED. PROVIDE TEMPORARY SYSTEMS AND/OR CONNECTIONS IF SCHEDULE REQUIRES REMOVAL OF THESE SERVICES BEFORE TEMPORARY SPACES ARE NO LONGER NEEDED.

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT
ALTIERI SEBOR WIEBER LLC
No. 22010

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
UPPER FLOOR REMOVAL PLAN
NORTH – MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451NUM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. MR-102.1

FILE:0451NUM REV:02/01/2006 REV:06/12/12 REV:05/12/06 15:02
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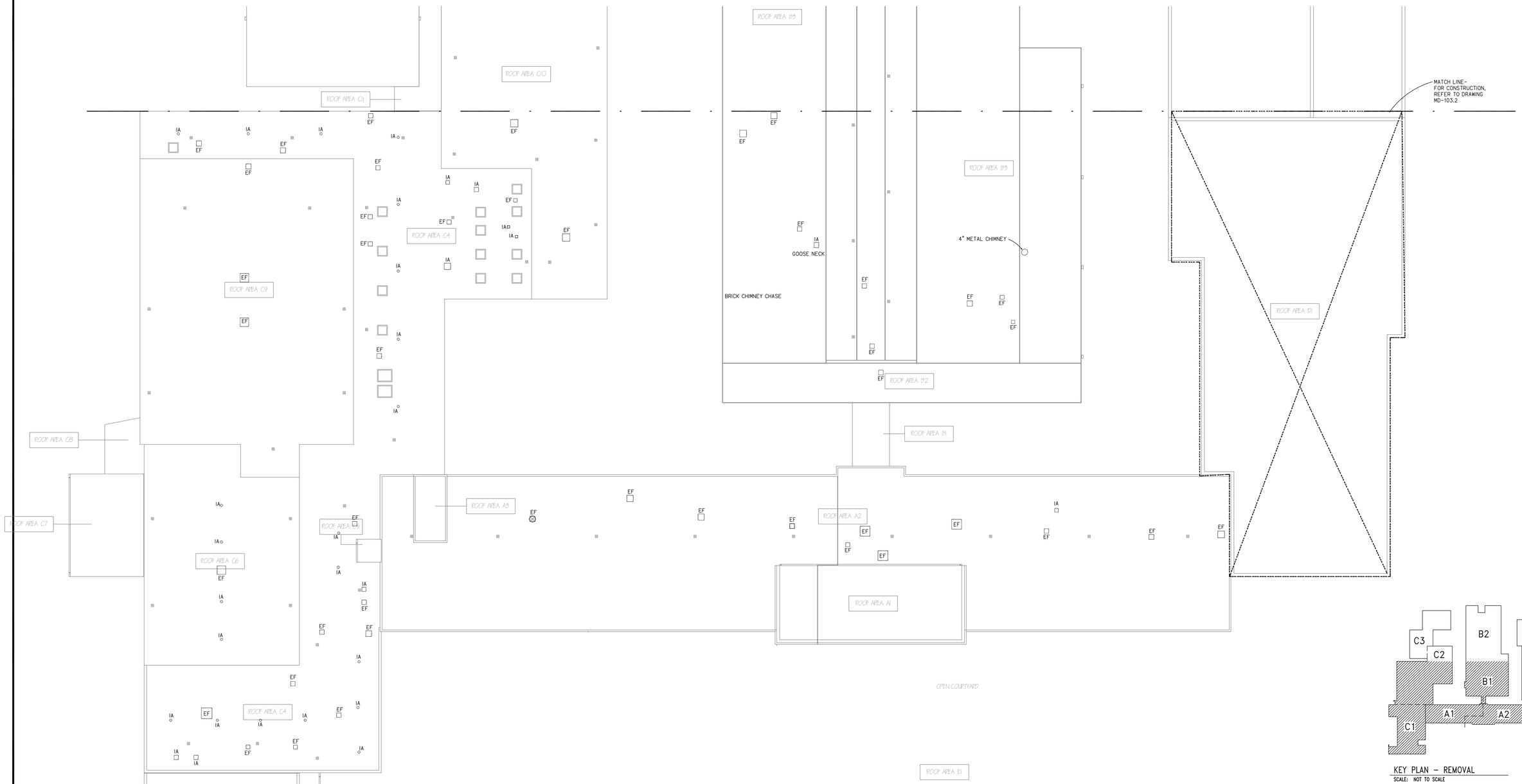
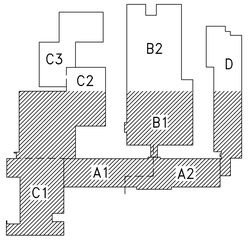




KEY PLAN – REMOVAL

SCALE: NOT TO SCALE

NORTH

NOTES:

1. EQUIPMENT, DUCTWORK, & PIPING SHOWN IS FOR GENERAL REFERENCE ONLY. FIELD VERIFY ALL SYSTEMS.
2. REMOVE ALL EXISTING DUCTWORK, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH HEATING, VENTILATION, AIR CONDITIONING SYSTEMS WITHIN THIS AREA, WHETHER SHOWN OR NOT, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN.
3. EXHAUST FAN AND DUCTWORK SERVING TEMPORARY SURGICAL SUITE SHALL REMAIN IN OPERATION UNTIL PERMANENT SYSTEMS ARE INSTALLED IN THE AREA.
4. COORDINATE REMOVALS TO ENSURE THAT ANY EXISTING SYSTEMS REQUIRED FOR USE TO SERVE THE TEMPORARY SPACES WILL REMAIN IN SERVICE UNITL THE TEMPORARY SPACES ARE NO LONGER NEEDED. PROVIDE TEMPORARY SYSTEMS AND/OR CONNECTIONS IF SCHEDULE REQUIRES REMOVAL OF THESE SERVICES BEFORE TEMPORARY SPACES ARE NO LONGER NEEDED.

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

EXHAUST FAN = EF
INTAKE AIR = IA
MAKE-UP AIR = MUA
A\C CONDENSER = ACC

CMR BID DOCUMENTS

Consultant
AlfieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT
ALFIERI, SEBOR & WIEBER
No. 20011
Exp. 12/31/2012

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ROOF REMOVAL PLAN
ROOF PLAN – NORTH

REVISIONS

Mark	Date	Description

CAD No.
0451NRM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

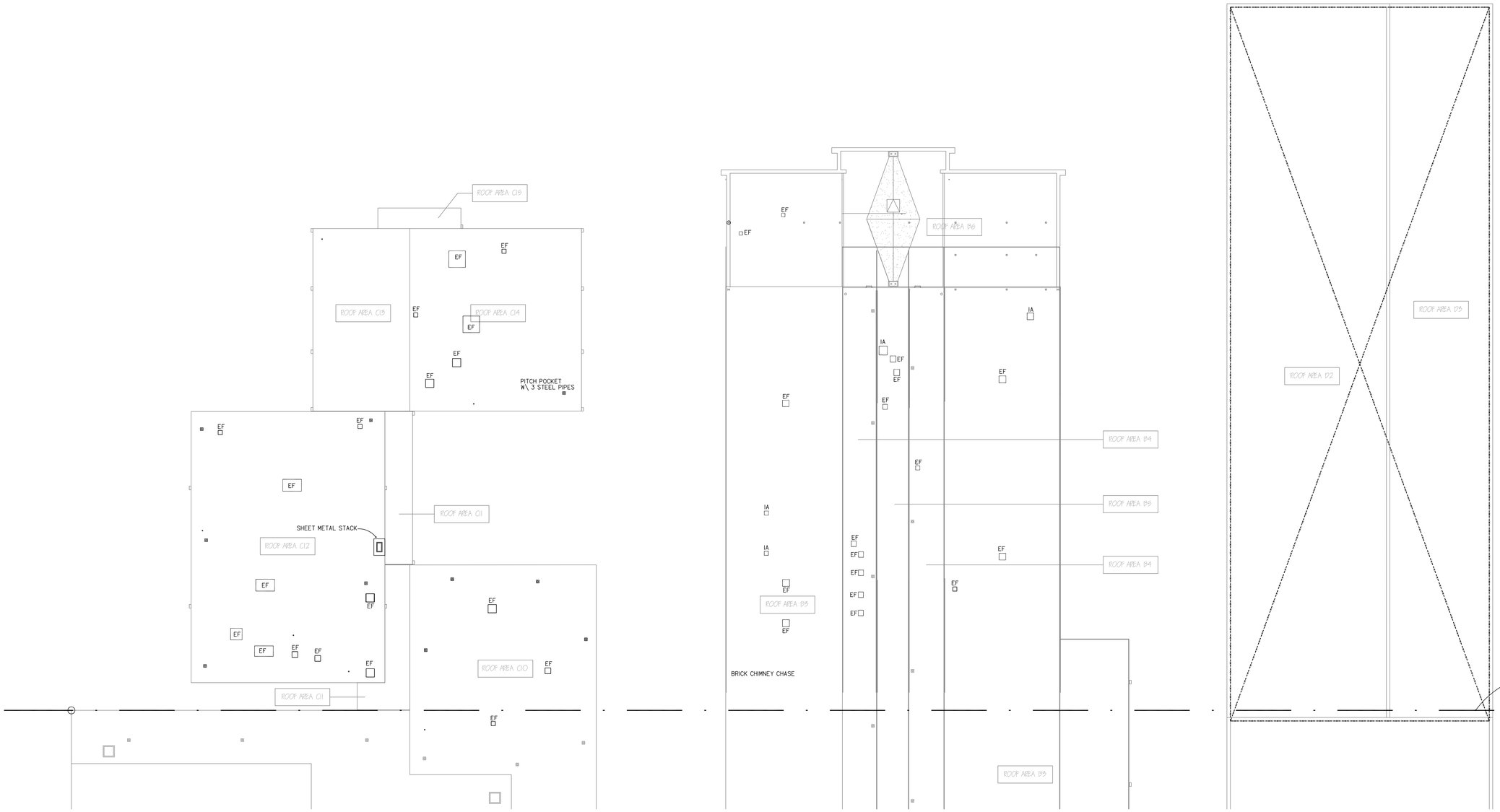
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

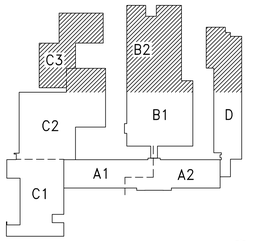
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. MR-103.1

FILE:0451nb REV:02/01/2007 17:15
FILE:0451NRM REV:06/15/12 09:04
FILE:0451NRM REV:06/21/06 15:40





KEY PLAN – REMOVAL
SCALE: NOT TO SCALE

NORTH

NOTES:

1. EQUIPMENT, DUCTWORK, & PIPING SHOWN IS FOR GENERAL REFERENCE ONLY. FIELD VERIFY ALL SYSTEMS.
2. REMOVE ALL EXISTING DUCTWORK, PIPING, HANGERS EQUIPMENT AND OTHER ITEMS ASSOCIATED WITH HEATING, VENTILATION, AIR CONDITIONING SYSTEMS WITHIN THIS AREA, WHETHER SHOWN OR NOT, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN.
3. COORDINATE REMOVALS TO ENSURE THAT ANY EXISTING SYSTEMS REQUIRED FOR USE TO SERVE THE TEMPORARY SPACES WILL REMAIN IN SERVICE UNITL THE TEMPORARY SPACES ARE NO LONGER NEEDED. PROVIDE TEMPORARY SYSTEMS AND/OR CONNECTIONS IF SCHEDULE REQUIRES REMOVAL OF THESE SERVICES BEFORE TEMPORARY SPACES ARE NO LONGER NEEDED.

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

EXHAUST FAN = EF
INTAKE AIR = IA
MAKE-UP AIR = MUA
A\C CONDENSER = ACC

CMR BID DOCUMENTS

Consultant
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Professional Seal & Signature
STATE OF CONNECTICUT · PROFESSIONAL ENGINEER · No. 22077 · JOHN C. ALTIERI
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ROOF REMOVAL PLAN
SOUTH-MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451SRM

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

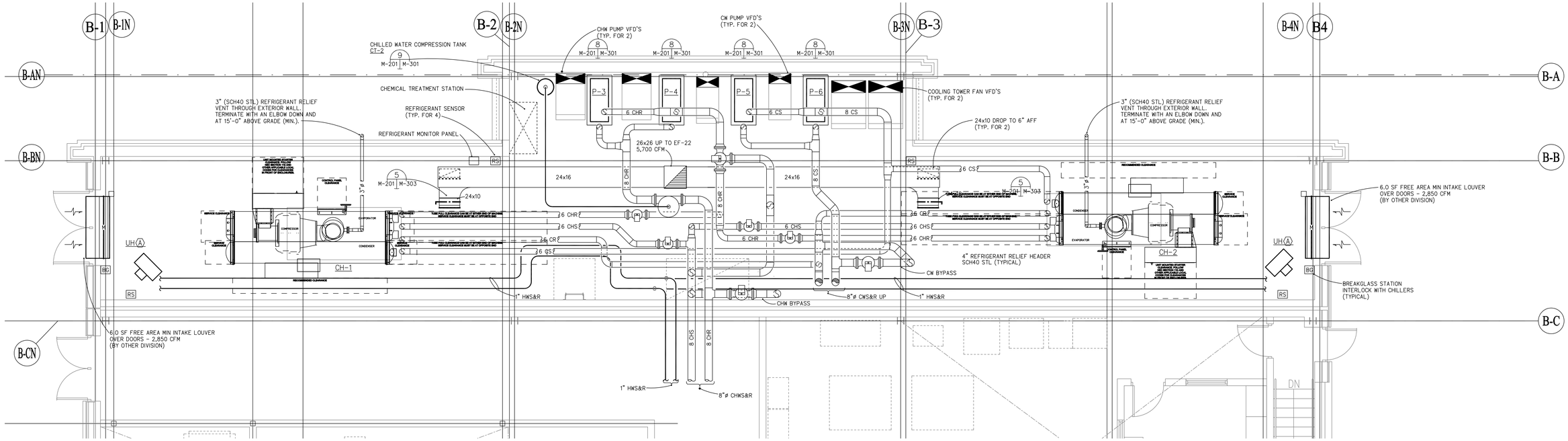
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

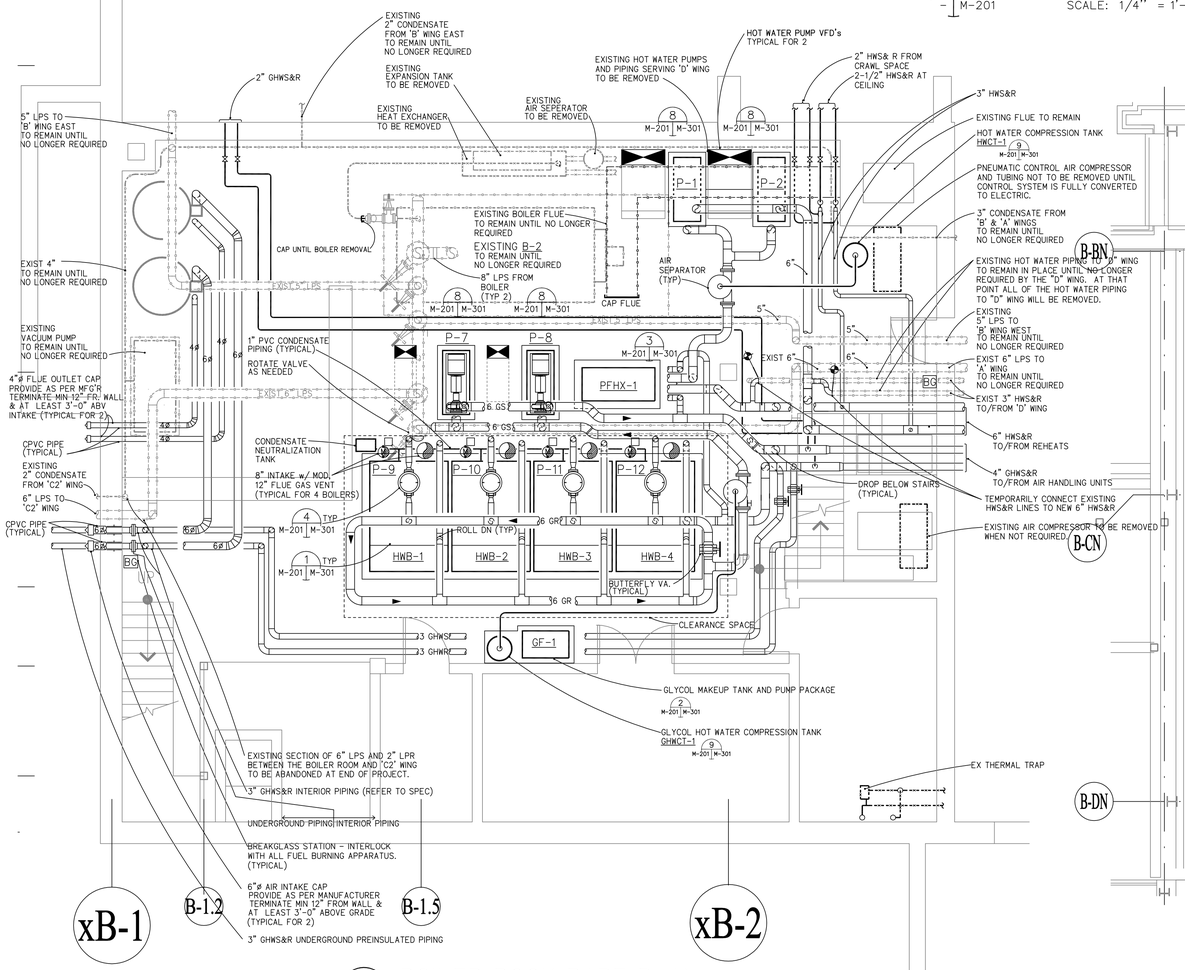
Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. MR-103.2

FILE:0451b REV:02/01/2007 17:15 FILE:0451srsq REV:01/06/2006 -- 17:11FILE:0451srm REV:06/15/12 09:05 FILE:0451srm REV:06/21/06 15:40



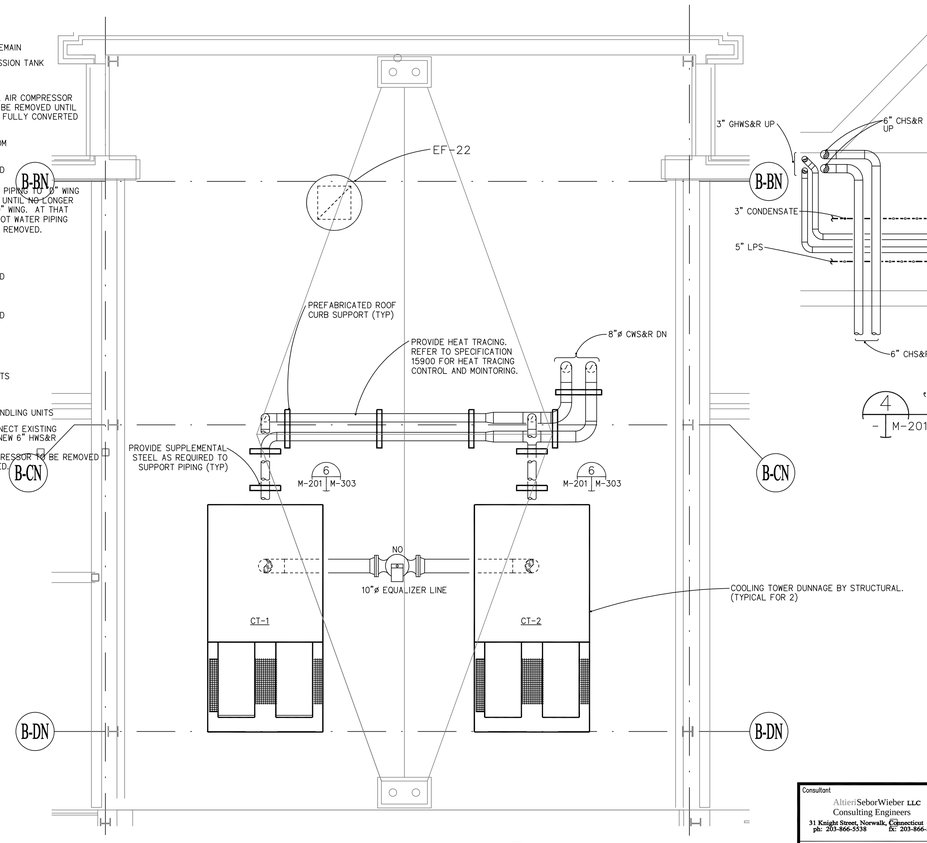
1 CHILLER ROOM PART PLAN

- M-201 SCALE: 1/4" = 1'-0"



2 BOILER ROOM PART PLAN

- M-201 SCALE: 1/4" = 1'-0"

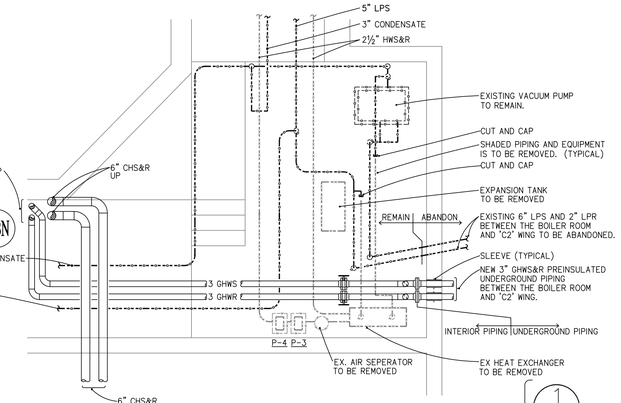


3 ROOF PART PLAN

- M-201 SCALE: 1/4" = 1'-0"

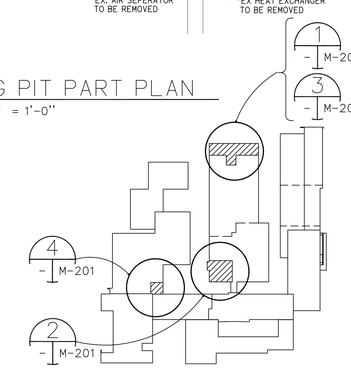
NOTES:

1) REFER TO DRAWINGS M-301, M-302 AND M-303 FOR CONNECTION DETAILS OF EQUIPMENT SHOWN ON THIS DRAWING.
2) EXISTING BOILER B-1 IS TO BE REMOVED TO ALLOW ROOM FOR HOT WATER PLANT. REFER TO SPECIFICATIONS AND DRAWING M-100.1 FOR REQUIRED SCOPE OF WORK.
3) EXISTING BOILER B-2 IS TO BE REMOVED AFTER HOT WATER PLANT IS OPERATING. REFER TO SPECIFICATIONS AND DRAWING M-100.1 FOR REQUIRED SCOPE OF WORK.
4) REMOVALS OF EQUIPMENT IN THE BOILER ROOM SHALL BE DICTATED AND GUIDED BY THE SEQUENCING SHOWN ON THE PHASING DRAWINGS.



4 'C'-WING PIT PART PLAN

- M-201 SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: NOT TO SCALE

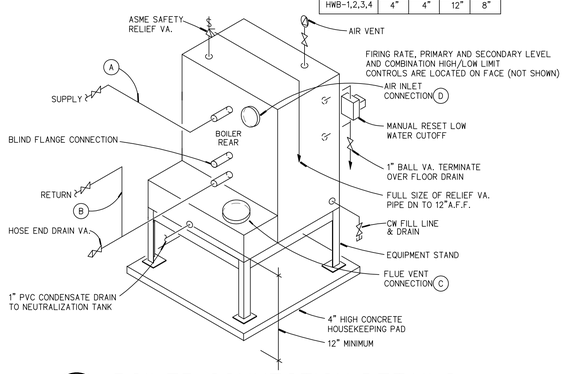
NORTH

CMR BID DOCUMENTS

Consultant: AlbienSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: BOILER ROOM PART PLAN MECHANICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451MER1	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012
		Scale 1/4"=1'-0"
		Drawn By ASW
		Approved By PCS
		Drawing No. M-201

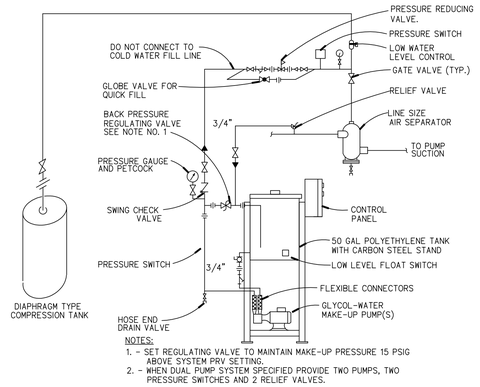
FILE:0451b REV:02/01/2007 17:15
FILE:0451mer1 REV:06/15/12 12:01

UNIT NO.	CONNECTION SIZES			
	Ⓐ	Ⓑ	Ⓒ	Ⓓ
HWB-1,2,3,4	4"	4"	12"	8"



1 BOILER CONNECTION DETAILS (CONDENSING TYPE)

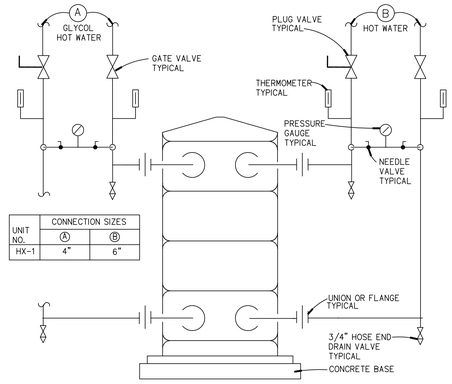
M-201 M-301



NOTES:
1. - SET REGULATING VALVE TO MAINTAIN MAKE-UP PRESSURE 15 PSIG ABOVE SYSTEM PRV SETTING.
2. - WHEN DUAL PUMP SYSTEM SPECIFIED PROVIDE TWO PUMPS, TWO PRESSURE SWITCHES AND 2 RELIEF VALVES.

2 GLYCOL FEED SYSTEM DETAIL

M-201 M-301 NOT TO SCALE

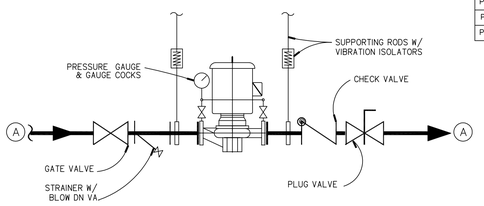


UNIT NO.	CONNECTION SIZES	
	Ⓐ	Ⓑ
HX-1	4"	6"

3 PLATE FRAME HEAT EXCHANGER

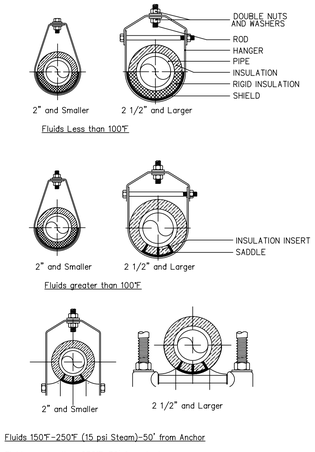
M-201 M-301 NOT TO SCALE

UNIT NO.	Ⓐ SIZE
P-9	4"
P-10	4":
P-11	4"
P-12	4"



4 IN-LINE PUMP

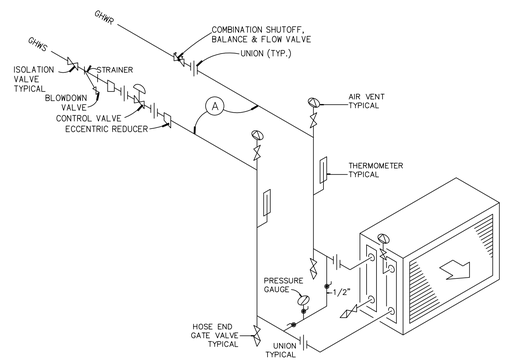
M-201 M-301 NOT TO SCALE



5 PIPE HANGER DETAIL

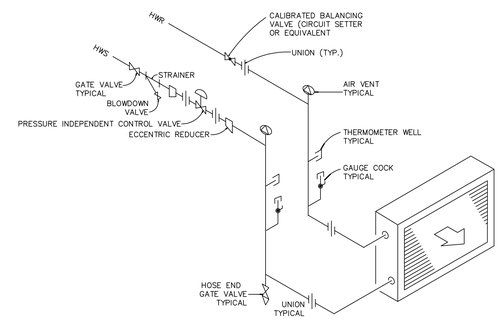
M-301 NOT TO SCALE

UNIT NO.	CONNECTIONS
	Ⓐ
AC-1	1-1/2"
AC-2	1-1/2"
AC-3	1-1/2"
AC-4	1-1/2"
AC-5	1-1/2"
AC-6	1-1/2"
AC-7	1"
AC-8	1"
AC-9	1-1/4"
AC-10A	1-1/4"
AC-10B	1-1/4"
AC-11	1-1/2"
AC-12	1-1/4"
AC-13	1-1/2"
AC-14	1-1/2"
AC-15	1"
AC-16	1"
HV-1	2-1/2"
HV-2	2"
HV-3	1-1/2"
HV-4	1-1/4"



6 HOT WATER HEATING COIL

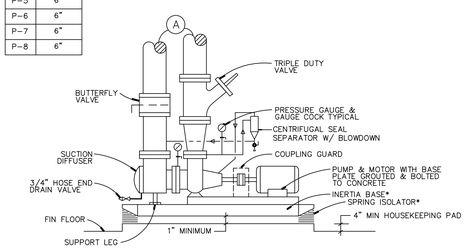
M-301 NOT TO SCALE



7 HOT WATER REHEAT COIL (VAV)

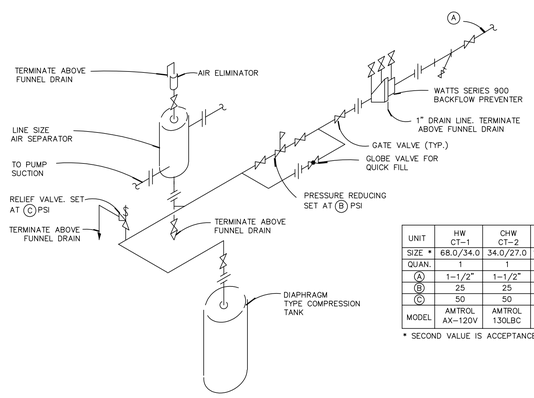
M-301 NOT TO SCALE

UNIT NO.	Ⓐ SIZE
P-1	6"
P-2	6"
P-3	6"
P-4	6"
P-5	6"
P-6	6"
P-7	6"
P-8	6"



8 END SUCTION PUMP

M-201 M-301 NOT TO SCALE

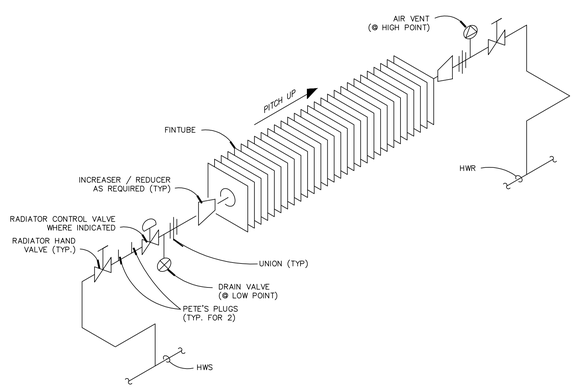


UNIT	HW CT-1	CHW CT-2	GHW GHWCT-1
SIZE *	68.0/34.0	34.0/27.0	132.0/46.0
QUAN.	1	1	1
Ⓐ	1-1/2"	1-1/2"	1-1/2"
Ⓑ	25	25	25
Ⓒ	50	50	50
MODEL	AMTROL AX-120V	AMTROL 130LBC	AMTROL AX-240V

* SECOND VALUE IS ACCEPTANCE VOLUME

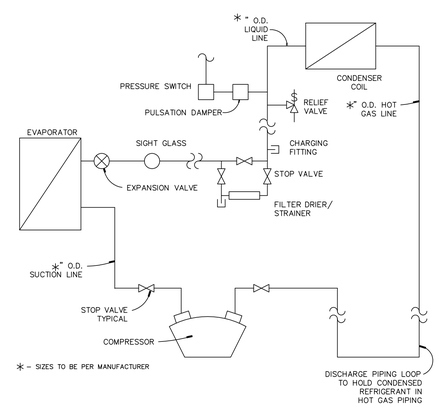
9 COMPRESSION TANK DETAIL

M-201 M-301 NOT TO SCALE



10 FINTUBE RADIATION DETAIL

M-301 NOT TO SCALE

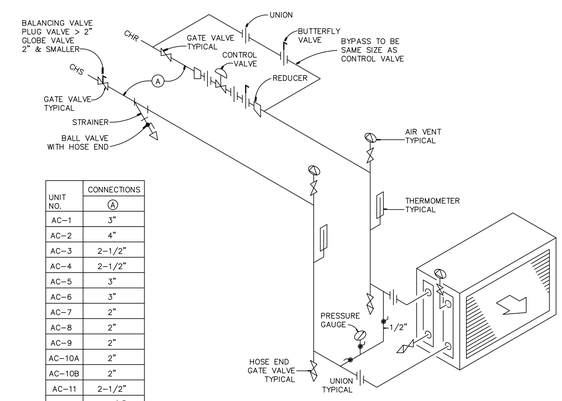


* - SIZES TO BE PER MANUFACTURER

11 REFRIGERATION CONNECTIONS

M-301

NOTE:
DETAILS SHOWN ON THIS DRAWING REFERENCE EQUIPMENT SHOWN ON THE PLAN DRAWINGS.



UNIT NO.	CONNECTIONS
	Ⓐ
AC-1	3"
AC-2	4"
AC-3	2-1/2"
AC-4	2-1/2"
AC-5	3"
AC-6	3"
AC-7	2"
AC-8	2"
AC-9	2"
AC-10A	2"
AC-10B	2"
AC-11	2-1/2"
AC-12	1-1/2"
AC-13	3"
AC-14	3"
AC-15	1-1/2"
AC-16	2"

12 CHILLED WATER COIL

M-301

CMR BID DOCUMENTS

Consultant
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ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22070
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAIL SHEET No. 1
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451MD01

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By ASW
Approved By PCS
Drawing No. M-301

FILE:0451b REV:02/01/2007 17:15
FILE:0451MD01 REV: 06/19/12 08:36
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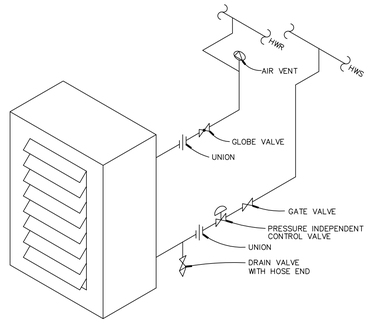
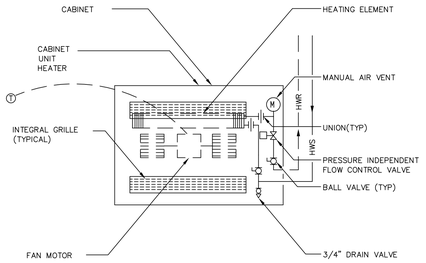


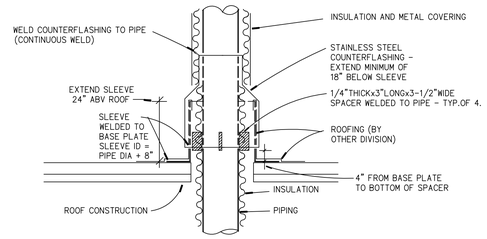
1 HOT WATER UNIT HEATER

– / M-302 NOT TO SCALE



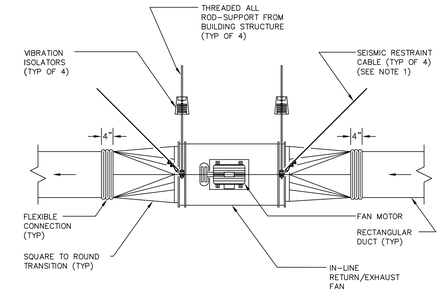
2 CABINET UNIT HEATER DETAIL

– / M-302 NOT TO SCALE



3 ROOF PENETRATION - PIPING

– / M-302 NOT TO SCALE

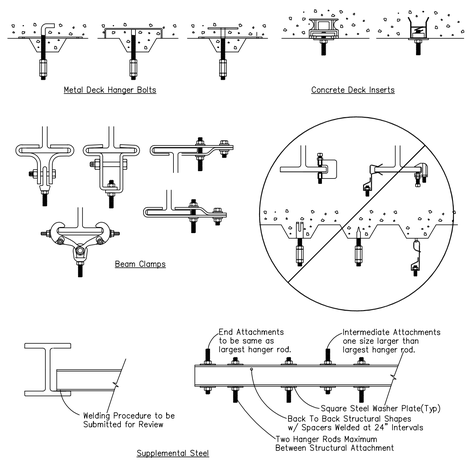


NOTES:

1. INSTALL SEISMIC RESTRAINT CABLE PER SPECIFICATIONS AND SMACNA SEISMIC RESTRAINT MANUAL-GUIDELINES FOR MECHANICAL SYSTEMS.

4 INLINE EXHAUST FAN INSTALLATION DETAIL

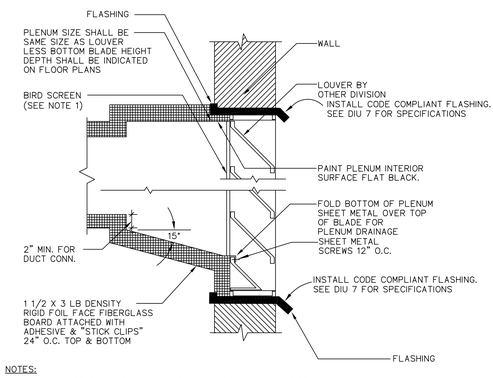
– / M-302 NOT TO SCALE



HANGER SCHEDULE		
PIPE SIZE	ROD SIZE	MAX. SPACING
up to 1 1/4"	3/8" DIA.	8' Steel
up to 1 1/4"	3/8" DIA.	6' Copper & Brass
1 1/2" & 2"	3/8" DIA.	10'
2 1/2" & 3"	1/2" DIA.	10'
4" & 5"	5/8" DIA.	10'
6"	3/4" DIA.	10'
8", 10", 12"	7/8" DIA.	10'
14" & 16"	1" DIA.	10'
18"	1 1/8" DIA.	10'

5 ATTACHMENT DETAIL

– / M-302 NOT TO SCALE

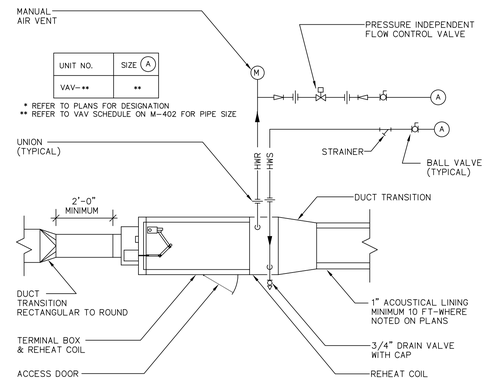


NOTES:

1. COVER INSIDE FACE OF LOUVER WITH 1/2" MESH ALUMINUM BIRD SCREEN SCREWED IN PLACE.
2. INSULATE UNUSED PORTION OF LOUVER WITH 1 1/2" GLASS FIBER INSULATING BOARD.
3. SEAL ALL PLENUM SEAMS WATERTIGHT WITH SILICONE SEALANT.
4. TYPICAL FOR SUPPLY AND EXHAUST PLENUMS.
5. PROVIDE ACCESS DOOR IN PLENUM. DOOR SHALL BE FIELD COORDINATED FOR ACCESS. DOOR SIZE SHALL BE 36" HIGH x 18" WIDE. REFER TO SPEC FOR DOOR CONSTRUCTION.

6 INTAKE AND EXHAUST PLENUM INSTALLATION DETAIL

– / M-302 NOT TO SCALE

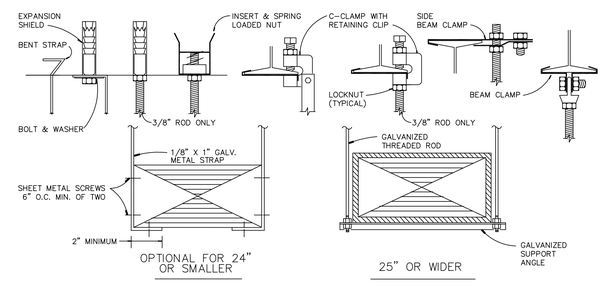


UNIT NO.	SIZE (A)
VAV-**	**

* REFER TO PLANS FOR DESIGNATION
** REFER TO VAV SCHEDULE ON M-402 FOR PIPE SIZE

7 TERMINAL BOX INSTALLATION DETAIL

– / M-302 NOT TO SCALE

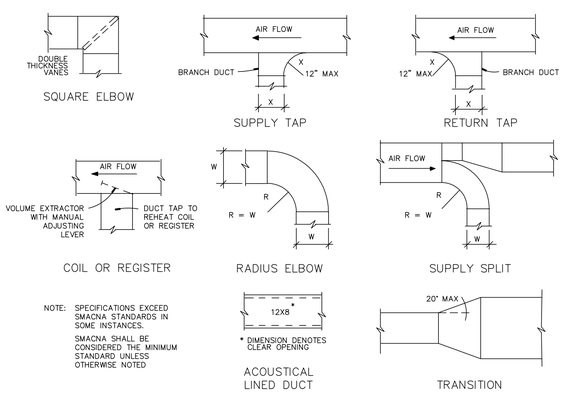


DUCT WIDTH	ROD DIA.	SUPPORT ANGLE OR EQUIV. CHANNEL	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	3/8"	1 1/2" X 1 1/2" X 1/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	3/8"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1/2"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------
85" AND UP	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------

* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

8 DUCT SUPPORT DETAIL

– / M-302 NOT TO SCALE

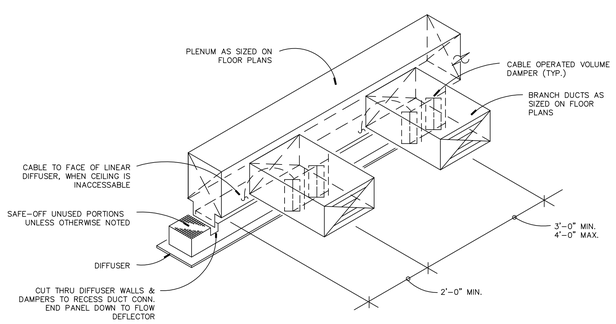


NOTE: SPECIFICATIONS EXCEED SMACNA STANDARDS IN SOME INSTANCES.

SMACNA SHALL BE CONSIDERED THE MINIMUM STANDARD UNLESS OTHERWISE NOTED

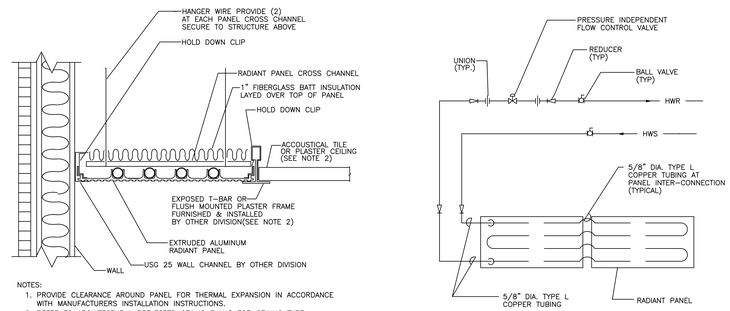
9 DUCT CONSTRUCTION DETAILS

– / M-302 NOT TO SCALE



10 LINEAR DIFFUSER

– / M-302 NOT TO SCALE



NOTES:

1. PROVIDE CLEARANCE AROUND PANEL FOR THERMAL EXPANSION IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.

11 RADIANT PANEL INSTALLATION AND PIPING CONNECTION DETAILS – CEILING LAY-IN APPLICATION

M-105.2 / M-302

CMR BID DOCUMENTS

NOTE:
DETAILS SHOWN ON THIS DRAWING REFERENCE EQUIPMENT SHOWN ON THE PLAN DRAWINGS.

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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAIL SHEET No. 2
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451MD02

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By ASW
Approved By PCS
Drawing No. M-302

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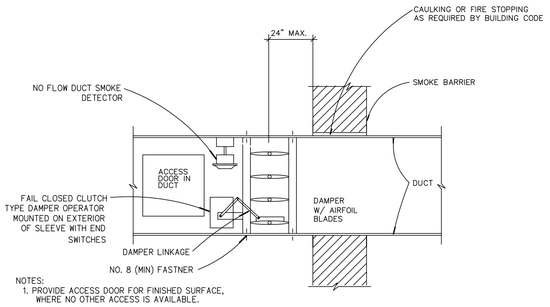
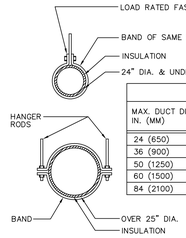
FILE:0451MD02 REV: 06/15/12 09:07
FILE:0451MD02REV: 06/22/06 13:33



NOTES:
1. PROVIDE ACCESS DOOR FOR FINISHED SURFACE, WHERE NO OTHER ACCESS IS AVAILABLE.

1 SMOKE DAMPER MOUNTING

M-303 NOT TO SCALE

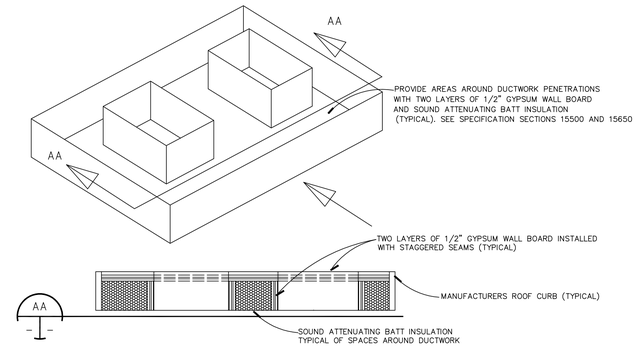


HANGER STRAPS OR RODS			
MAX. DUCT DIA. IN. (MM)	QUANTITY / SIZE IN. (MM)	MAX. LOAD LBS. (KG)	MAX. SPACING FT. (M)
24 (650)	ONE 1 (25) x 22 GA STRAP	260 (119)	12 (3.7)
36 (900)	TWO 1 (25) x 20 GA STRAP	420 (190)	12 (3.7)
50 (1250)	TWO 3/8 (10) DIA. RODS	700 (317)	12 (3.7)
60 (1500)	TWO 3/8 (10) DIA. RODS	1320 (598)	12 (3.7)
84 (2100)	TWO 3/8(10) DIA. RODS	2500 (1133)	12 (3.7)

NOTE:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

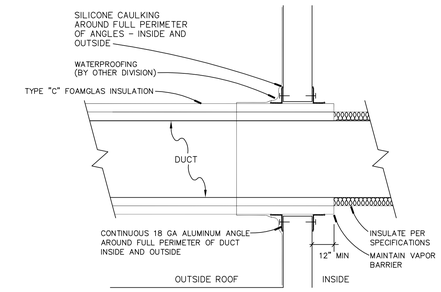
2 ROUND DUCTWORK HANGERS

M-303



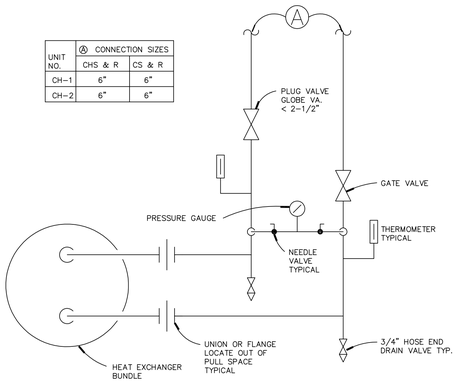
3 SOUND REDUCING ROOF CURB DETAIL

M-303



4 DUCT PENETRATION THROUGH WALL

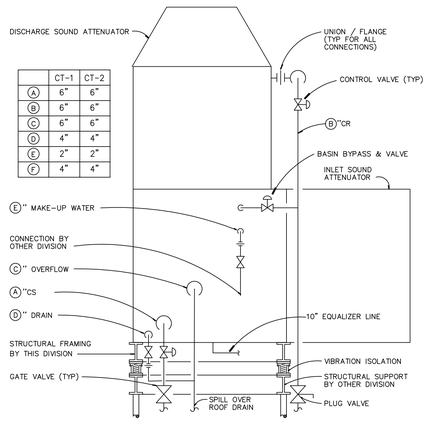
M-303 NOT TO SCALE



UNIT NO.	Ⓐ CONNECTION SIZES	
	CHS & R	CS & R
CH-1	6"	6"
CH-2	6"	6"

5 CHILLER CONNECTIONS

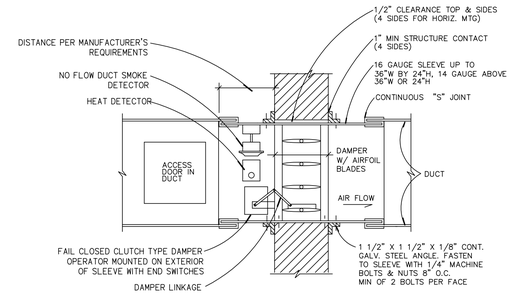
M-201 M-303



	CT-1	CT-2
Ⓐ	6"	6"
Ⓑ	6"	6"
Ⓒ	6"	6"
Ⓓ	4"	4"
Ⓔ	2"	2"
Ⓕ	4"	4"

6 COOLING TOWER

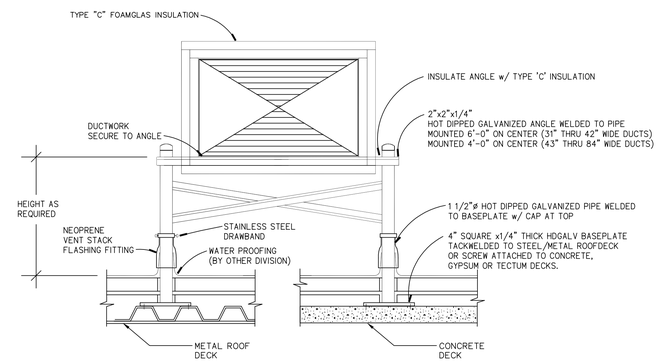
M-201 M-303



NOTES:
1. PROVIDE ACCESS DOOR FOR FINISHED SURFACE, WHERE NO OTHER ACCESS IS AVAILABLE.
2. PROVIDE MULTIPLE DUCT SMOKE DETECTORS FOR DAMPERS LARGER THAN 36"(W) x 36"(H).
3. IF SLEEVE LOCATION FOR SMOKE DETECTOR IS NOT POSSIBLE, THE DETECTOR MAY BE INSTALLED IN THE DUCT WITHIN 5 FEET (MAX.) OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DAMPER AND THE DETECTOR.

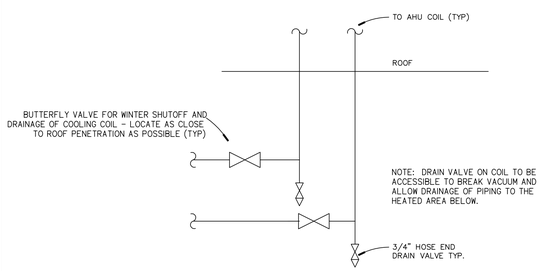
7 COMBINATION FIRE/SMOKE DAMPER DETAIL

M-303



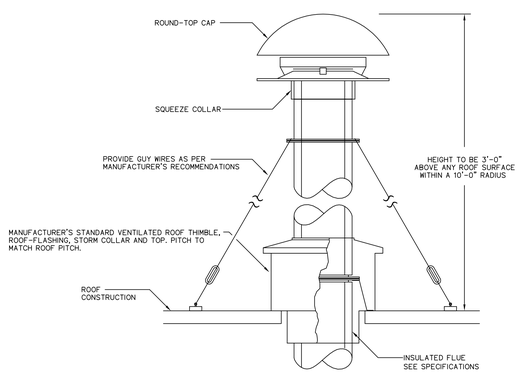
8 DUCT SUPPORT AT ROOF

SEE PLANS M-303



9 CHILLED WATER PIPING AT ROOFTOP UNITS

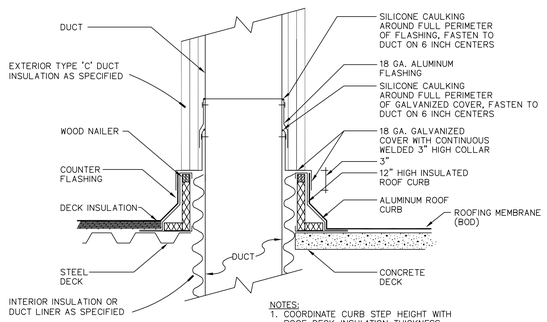
SEE PLANS M-303



10 FLUE PIPING ROOF PENETRATION DETAIL

M-102.1 M-303
M-103.1

SCALE: = NONE

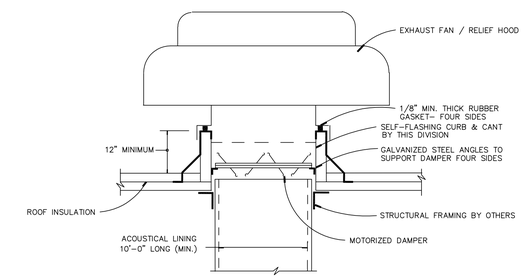


NOTES:
1. COORDINATE CURB STEP HEIGHT WITH ROOF DECK INSULATION THICKNESS

11 DUCT PENETRATION THRU ROOF

SEE PLANS M-303

NOTE:
DETAILS SHOWN ON THIS DRAWING REFERENCE EQUIPMENT SHOWN ON THE PLAN DRAWINGS.



12 EXHAUST FAN/RELIEF HOOD

M-303 NOT TO SCALE

CMR BID DOCUMENTS

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ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAIL SHEET No. 3
MECHANICAL

REVISIONS

Mark	Date	Description

CAD No. 0451MD03

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
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FILE:0451b REV:02/01/2007 17:15
FILE:0451MD03 REV: 06/15/12 09:07
FILE:0451MD03REV: 06/22/06 15:37

AIR HANDLING UNITS

UNIT NO	LOCATION	SERVES	FAN SECTION: VENT AIR	CFM	ESP/TSP	WHEEL TYPE	FAN RPM	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	EXHAUST/RETURN FAN: ELECTRICAL: VOLTS	PH	RPM	HP	ESP
AC-1	ROOF	ART/INFO. TECH LABS/SOC. ST.	4,000	12,800	1.7"/3.61"	AF	1,335	11.84	20	480	3	1,750	480	3	1,750	2 @ 5	0.75"
AC-2	ROOF	LIFE SKILLS MED. CTR/ENGLISH	5,645	16,800	2.2"/4.31"	AF	1,314	10.07	2 @ 20	480	3	1,750	480	3	1,750	2 @ 7.5	0.75"
AC-3	ROOF	MATH ROOMS HEALTH ROOMS	4,635	8,900	1.25"/2.66"	AF	1,038	5.79	10	480	3	1,170	480	3	1,750	2 @ 3	0.6"
AC-4	ROOF	DENTAL ROOMS COSMETOLOGY	4,250	11,555	1.9"/3.64"	AF	1,272	10.46	20	480	3	1,750	480	3	1,750	2 @ 5	0.75"
AC-5	ROOF	LPN LAB, FASHION LANG. LABS	5,675	16,770	2.1"/4.21"	AF	1,485	8.88	2 @ 15	480	3	1,750	480	3	1,750	2 @ 5	0.75"
AC-6	ROOF	HEALTH CHARTING	4,445	11,785	2.2"/3.99"	AF	1,316	11.63	20	480	3	1,750	480	3	1,750	2 @ 5	1.0"
AC-7	ROOF	ADMINISTRATION	1,695	4,975	1.3"/2.67"	AF	1,082	3.32	7.5	480	3	1,750	480	3	1,750	5	0.75"
AC-8	ROOF	MIULTPURPOSE ROOM	1,550	4,300	1/25"/3.32"	AF	1,879	3.84	7.5	480	3	1,750	480	3	1,750	3	0.75"
AC-9	ROOF	FITNESS	3,200	6,085	1.6"/3.55"	AF	1,262	5.33	10	480	3	1,170	480	3	1,750	5	0.75"
AC-10A	ROOF	GYM A	4,400	4,770	1.25"/3.17"	AF	1,344	3.7	7.5	480	3	1,750	480	3	1,750	5	0.75"
AC-10B	ROOF	GYM B	4,300	5,240	1.25"/3.24"	AF	1,182	4.3	7.5	480	3	1,750	480	3	1,750	5	0.75"
AC-11	ROOF	DINING	3,100	8,325	1.25"/2.34"	AF	972	4.76	10	480	3	1,750	480	3	1,750	2 @ 3	0.75"
AC-12	ROOF	AUTO	660	2,860	1.25"/2.38"	AF	1,513	1.87	3	480	3	1,750	480	3	1,750	2	0.75"
AC-13	ROOF	GRAPHICS/ DRAFTING	4,035	15,930	2.25"/4.13"	AF	1,451	8.27	2 @ 15	480	3	1,750	480	3	1,750	2 @ 7.5	1.0"
AC-14	ROOF	CLAB	8,290	8,290	1.25"/4.0"	DWDI	2,054	7.18	10	480	3	1,750	480	3	1,750	5	0.75"
AC-15	ROOF	RESTAURANT	640	3,010	1.25"/2.49"	AF	1,555	2.05	5	480	3	1,750	480	3	1,750	2	0.75"
AC-16	ROOF	GUIDANCE	1,700	4,540	1.4"/2.68"	AF	1,246	2.95	5	480	3	1,750	480	3	1,750	3	0.75"
HV-1	ROOF	AUTOMOTIVE PROD. SHOPS	14,650	14,650	1.0"/3.54"	AF	1,341	6.52	2 @ 10	480	3	1,750	480	3	1,750	2 @ 7.5	0.75"
HV-2	ROOF	PLUMBING/ MANUFACTURING	1,735	5,480	1.5"/2.9"	AF	1,140	3.92	7.5	480	3	1,750	480	3	1,750	5	0.75"
HV-3	ROOF	MANUFACTURING/ CARPENTRY	1,300	3,455	1.5"/2.88"	AF	1,691	2.7	5	480	3	1,750	480	3	1,750	3	0.50"
HV-4	ROOF	KITCHEN	2,665	2,665	0.75"/2.4"	AF	1,506	1.79	3	480	3	1,750	480	3	1,750	3	0.75"

UNIT NO	CHILLED WATER COIL: CAP T/S (GROSS)	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS/IN	GLYCOL HOT WATER COIL (35% PROP. GLYCOL): CAP MBH	AIR DATA: EAT	LAT	GLYCOL DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS/IN	ENERGY RECOVERY SECTION: HEAT RECOVERED: SUMMER	WINTER	EXHAUST AIR CFM	OUTSIDE AIR CFM	SUMMER: EAT	LAT	WINTER: EAT	LAT	MAKE/MODEL	REMARKS
AC-1	446.0 (T) 348.9 (S)	75.7 DB 62.8 WB	50.2 DB 50.1 WB	45	54.7	92	401.6	0.57"	12.7'	6/12	291	64.5 DB	85.4 DB	160	120	15.5	683	0.1	1.0'	2/7	124.2 MBH	220.3 MBH	4,000	4,000	88 DB 73 WB	77.3 DB 64.5 WB	6.0 DB	57.0 DB	AAON RN-026	
AC-2	624.3 (T) 474.1 (S)	75.9 DB 63.0 WB	49.5 DB 49.4 WB	45	53.3	150	384	0.53"	14.5'	6/12	330	63.6 DB	81.7 DB	160	120	17.6	896	0.2	1.2'	2/7	167.1 MBH	295.9 MBH	5,645	5,645	88 DB 73 WB	77.7 DB 64.9 WB	6.0 DB	55.0 DB	AAON RN-060	
AC-3	335.8 (T) 252.2 (S)	76.3 DB 63.4 WB	49.7 DB 49.6 WB	45	55.3	65	279.2	0.32"	8.1'	6/12	237	58.8 DB	83.4 DB	160	120	12.7	475	0.1	0.7'	2/6	141.3 MBH	250.5 MBH	4,635	4,635	88 DB 73 WB	77.5 DB 64.6 WB	6.0 DB	56.4 DB	AAON RN-031	
AC-4	407.6 (T) 316.6 (S)	75.9 DB 62.9 WB	50.2 DB 50.1 WB	45	55.2	80	362.5	0.48"	10.5'	6/12	268	63.9 DB	85.3 DB	160	120	14.3	616	0.1	0.9'	2/7	131.0 MBH	232.4 MBH	4,250	4,250	88 DB 73 WB	77.4 DB 64.5 WB	6.0 DB	56.7 DB	AAON RN-026	
AC-5	603.4 (T) 464.3 (S)	75.9 DB 63.0 WB	50.0 DB 50.0 WB	45	54	130	383.3	0.53"	11.9'	6/12	329	63.6 DB	81.7 DB	160	120	17.6	894	0.2	1.2'	2/7	167.9 MBH	297.2 MBH	5,675	5,675	88 DB 73 WB	77.7 DB 64.9 WB	6.0 DB	55.0 DB	AAON RN-050	
AC-6	421.4 (T) 325.1 (S)	75.9 DB 63.0 WB	50.1 DB 50.0 WB	45	54.9	85	369.7	0.5"	11.4'	6/12	271	63.9 DB	85.1 DB	160	120	14.5	629	0.1	0.9'	2/7	136.2 MBH	241.6 MBH	4,445	4,445	88 DB 73 WB	77.4 DB 64.6 WB	6.0 DB	56.5 DB	AAON RN-026	
AC-7	190.8 (T) 142.9 (S)	75.7 DB 62.9 WB	48.8 DB 48.8 WB	45	54.7	39	260.1	0.28"	11.3'	6/12	106	64.5 DB	84.1 DB	160	120	5.7	685	0.1	1.5'	2/6	53.0 MBH	95.0 MBH	1,695	1,695	88 DB 73 WB	77.2 DB 64.6 WB	6.0 DB	57.7 DB	AAON RN-016	
AC-8	161.2 (T) 121.1 (S)	76.2 DB 63.3 WB	49.8 DB 49.7 WB	45	53.1	40	396.9	0.57"	12.8'	6/12	101	62.5 DB	84.2 DB	160	120	5.4	592	0.1	1.4'	2/6	43.5 MBH	78.4 MBH	1,550	1,550	88 DB 73 WB	78.2 DB 65.6 WB	6.0 DB	52.7 DB	AAON RN-011	
AC-9	241.2 (T) 175.7 (S)	76.7 DB 63.9 WB	49.6 DB 49.5 WB	45	55	48	318.2	0.4"	15.1'	6/12	126	60.0 DB	79.2 DB	160	120	6.8	838	0.1	2.1'	2/6	90.32 MBH	162.6 MBH	3,200	3,200	88 DB 73 WB	78.2 DB 65.5 WB	6.0 DB	52.9 DB	AAON RN-016	
AC-10A	225.6 (T) 150.0 (S)	78.7 DB 66.0 WB	49.0 DB 49.0 WB	45	55.1	45	249.4	0.28"	13.8'	6/12	191	50.5 DB	87.5 DB	160	120	10.2	657	0.2	4.5'	2/11	113.4 MBH	205.2 MBH	4,400	4,400	88 DB 73 WB	79.0 DB 66.2 WB	6.0 DB	49.0 DB	AAON RN-016	
AC-10B	235.0 (T) 160.1 (S)	78.2 DB 65.5 WB	49.4 DB 49.4 WB	45	55.4	45	274	0.32"	13.8'	6/12	196	52.7 DB	87.2 DB	160	120	10.5	721	0.3	4.8'	2/11	111.7 MBH	202.1 MBH	4,300	4,300	88 DB 73 WB	78.9 DB 66.2 WB	6.0 DB	49.4 DB	AAON RN-016	
AC-11	329.1 (T) 243.3 (S)	75.8 DB 63.0 WB	48.4 DB 48.3 WB	45	53.8	75	190.3	0.17"	5.9'	6/12	227	62.5 DB	87.7 DB	160	120	12.2	444	0.1	0.6'	2/7	97.8 MBH	175.2 MBH	3,100	3,100	88 DB 73 WB	77.1 DB 64.5 WB	6.0 DB	58.1 DB	AAON RN-050	
AC-12	86.4 (T) 71.2 (S)	75.5 DB 62.6 WB	52.1 DB 51.7 WB	45	55.1	17	264	0.2"	4.6'	6/8	141	62.5 DB	108 DB	160	120	7.5	495	0.1	4.9	4/7	21.1 MBH	37.8 MBH	660	660	88 DB 73 WB	76.9 DB 64.4 WB	6.0 DB	58.7 DB	AAON RN-009	
AC-13	548.3 (T) 432.7 (S)	75.6 DB 62.6 WB	50.1 DB 50.1 WB	45	55	110	364.1	0.48"	9.5'	6/12	313	65.2 DB	83.3 DB	160	120	16.7	850	0.2	1.1'	2/7	125.1 MBH	222.0 MBH	4,035	4,035	88 DB 73 WB	77.3 DB 64.5 WB	6.0 DB	57.0 DB	AAON RN-050	
AC-14	500.2 (T) 261.9 (S)	80.5 DB 70.7 WB	51.6 DB 51.5 WB	45	55.2	97.7	460.4	1.0"	15.1'	6/11	233	46.0 DB	71.9 DB	160	120	12.4	460	0.1	0.6'	2/6	62.5 MBH	355.9 MBH	8,287	8,287	87 DB 81 WB	75 DB 53 WB	6.0 DB	46.0 DB	MAFNA CUSTOM 180x96	w/ FLAT PLATE HEAT EXCHANGER
AC-15	103.0 (T) 81.4 (S)	75.4 DB 62.5 WB	50.1 DB 50.0 WB	45	55.3	20	277.8	0.31"	5.4'	6/12	73	66.1 DB	88.5 DB	160	120	3.9	521	0.1	1.7'	2/7	20.5 MBH	36.7 MBH	640	640	88 DB 73 WB	76.9 DB 64.4 WB	6.0 DB	58.9 DB	AAON RN-009	
AC-16	180.2 (T) 133.0 (S)	75.9 DB 63.0 WB	48.4 DB 48.3 WB	45	54.2	39	237.4	0.24"	11.3'	6/12	101	64.5 DB	84.2 DB	160	120	5.4	625	0.1	1.4'	2/6	53.1 MBH	95.2 MBH	1,700	1,700	88 DB 73 WB	77.2 DB 64.6 WB	6.0 DB	57.7 DB	AAON RN-016	
HV-1											817	39.6 DB	91.0 DB	160	120	43.6	484	0.2	7.1'	2/12		557.6 MBH	14,650	14,650			6.0 DB	41.1 DB	AAON RN-026	
HV-2											353	64.7 DB	125 DB	160	120	19.6	293	0.2	3.9'	4/10		97.0 MBH	1,735	1,735			6.0 DB	57.5 DB	AAON RN-016	
HV-3											199	62.8 DB	116 DB	160	120	10.6	265	0.03	0.9'	4/6		68.2 MBH	1,300	1,300			6.0 DB	54.4 DB	AAON RN-009	
HV-4											157	42.8 DB	97.1 DB	160	120	8.4	204	0.1	2.0'	2/8		106.2 MBH	2,665	2,665			6.0 DB	42.8 DB	AAON RN-009	

NOTES:
1. ALL SUPPLY AND RETURN FANS TO BE PROVIDED WITH VARIABLE FREQUENCY DRIVES.

COOLING TOWERS

UNIT NO	LOCATION	WATER DATA: GPM	EWT	LWT	HEAD	AIR DATA: WB	CFM	FAN DATA: SP	TYPE	ELECTRICAL: HP	VOLTS	PH	RPM	HTR	OPER LBS	MAKE/MODEL	REMARKS
CT-1	B2 ROOF	681	95° F	85° F	9'	78° F	46,550	–	TEFC	30	480	3	1,750	1 @ 7 KW	7,470	BALTIMORE AIR COIL SERIES VTL-227-0	w/ VFD
CT-2	B2 ROOF	681	95° F	85° F	9'	78° F	46,550	–	TEFC	30	480	3	1,750	1 @ 7 KW	7,470	BALTIMORE AIR COIL SERIES VTL-227-0	w/ VFD

CHILLERS

UNIT NO	LOCATION	TYPE	CAP TONS	EVAPORATOR: GPM	EWT	LWT	PD	CONDENSER: GPM	EWT	LWT	PD	PART LOAD POINTS			KW/TON	NPLV KW/TON	ELECTRICAL: KW	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
CH-1	B1 CHILLER ROOM	HI EFFIC. CENTRIF.	225	538	55° F	45° F	12.9'	675	85° F	95° F	14.0'	75% @ 75°F	50% @ 65°F	25% @ 65°F	0.532	0.343	120	480	3	1,750	TRANE CVHE 0280	w/ VFD
CH-2	B1 CHILLER ROOM	HI EFFIC. CENTRIF.	225	538	55° F	45° F	12.9'	675	85° F	95° F	14.0'	75% @ 75°F	50% @ 65°F	25% @ 65°F	0.532	0.343	120	480	3	1,750	TRANE CVHE 0280	w/ VFD

NOTE: MANUFACTURERS SHALL MEET BOTH FULL LOAD AND PART LOAD VALUES.

PUMPS

UNIT NO	LOCATION	SYSTEM SERVED	FLUID	GPM	MAX TEMP	HEAD FT	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	TYPE	MAKE/MODEL	REMARKS
P-1	B1 BOILER ROOM	HOT WATER	WATER	650	200° F	80	16.7	20	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4E	w/ VFD
P-2	B1 BOILER ROOM	HOT WATER	WATER	650	200° F	80	16.7	20	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4E	SPARE w/ VFD
P-3	B2 CHILLER ROOM	CHILLED WATER	WATER	538	100° F	95	16.2	20	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4E	w/ VFD
P-4	B2 CHILLER ROOM	CHILLED WATER	WATER	538	100° F	95	16.2	20	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4E	w/ VFD
P-5	B2 CHILLER ROOM	CONDENSER WATER	WATER	675	100° F	55	12.3	15	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4BC	w/ VFD
P-6	B2 CHILLER ROOM	CONDENSER WATER	WATER	675	100° F	55	12.3	15	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4BC	w/ VFD
P-7	B1 BOILER ROOM	GLYCOL HOT WATER SECONDARY	35% PROP. GLYCOL	575	160° F	65	13.8	15	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4BC	w/ VFD
P-8	B1 BOILER ROOM	GLYCOL HOT WATER SECONDARY	35% PROP. GLYCOL	575	160° F	65	13.8	15	480	3	1750	END SUCTION	BELL & GOSSETT SERIES 1510 SIZE 4BC	SPARE w/ VFD
P-9	B1 BOILER ROOM	GLYCOL HOT WATER PRIMARY	35% PROP. GLYCOL	145	160° F	15	0.97	1-1/2	480	3	1150	END SUCTION	BELL & GOSSETT SERIES 80 SIZE 4x4x7	w/ VFD
P-10	B1 BOILER ROOM	GLYCOL HOT WATER PRIMARY	35% PROP. GLYCOL	145	160° F	15	0.97	1-1/2	480	3	1150	END SUCTION	BELL & GOSSETT SERIES 80 SIZE 4x4x7	w/ VFD
P-11	B1 BOILER ROOM	GLYCOL HOT WATER PRIMARY	35% PROP. GLYCOL	145	160° F	15	0.97	1-1/2	480	3	1150	END SUCTION	BELL & GOSSETT SERIES 80 SIZE 4x4x7	w/ VFD
P-12	B1 BOILER ROOM	GLYCOL HOT WATER PRIMARY	35% PROP. GLYCOL	145	160° F	15	0.97	1-1/2	480	3	1150	END SUCTION	BELL & GOSSETT SERIES 80 SIZE 4x4x7	w/ VFD

CABINET & UNIT HEATERS

UNIT NO	LOCATION	CFM	MBH	AIR DATA: EAT	LAT	HOT WATER DATA: GPM	EWT	LWT	PD	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
CUH A	SEE PLANS	540	45.0	60° F	100° F	6.0	120° F	105° F	–	1/20	120	1	1,750	TRANE FORCE-FLO FF BB 060	VERTICAL WALL HUNG CABINET
CUH B	SEE PLANS	540	45.0	60° F	100° F	6.0	120° F	105° F	–	1/20	120	1	1,750	TRANE FORCE-FLO FF HB 060	VERTICAL RECESSED
CUH C	SEE PLANS	540	45.0	60° F	100° F	6.0	120° F	105° F	–	1/20	120	1	1,750	TRANE FORCE-FLO FF EB 060	HORIZONTAL RECESSED
UH A	SEE PLANS	1,400	30.0	60° F	106° F	3.0	120° F	100° F	0.3"	1/12	120	1	1,750	STERLING HS-96	
UH B	SEE PLANS	1,400	47.0	60° F	106° F	3.0	160° F*	120° F*	0.1'	1/12	120	1	1,750	STERLING HS-96	
UH C	SEE PLANS	2,200	79.0	60° F	110° F	5.0	160° F*	120° F*	0.1'	1/3	120	1	1,750	STERLING HS-180	
UH D	GARAGE B140	3,500	116.0	60° F	106° F	7.0	160° F*	120° F*	0.2'	1/3	120	1	1,750	STERLING HS-240	

* – 35% PROPYLENE GLYCOL

BOILERS

UNIT NO	LOCATION	TYPE	NET MBH	FUEL	FIRING RATE	MAX PRESS	BURNER ELECTRICAL: AMPS	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
HWB-1	B1 BOILER ROOM	CONDENSING	3,185	NAT. GAS	3,300 MBH	–	6.9	208	3	1,750	CLEAVER BROOKS CFC 3300	
HWB-2	B1 BOILER ROOM	CONDENSING	3,185	NAT. GAS	3,300 MBH	–	6.9	208	3	1,750	CLEAVER BROOKS CFC 3300	
HWB-3	B1 BOILER ROOM	CONDENSING	3,185	NAT. GAS	3,300 MBH	–	6.9	208	3	1,750	CLEAVER BROOKS CFC 3300	
HWB-4	B1 BOILER ROOM	CONDENSING	3,185	NAT. GAS	3,300 MBH	–	6.9	208	3	1,750	CLEAVER BROOKS CFC 3300	

RADIATION

UNIT NO	LOCATION	EWT	LWT	OUTPUT BTU/FT	ENCL HGT	NO TIER	TUBE: SIZE	MATL	FINS: SIZE	MATL	/FT	ENCLOSURE TYPE	MAKE/MODEL	REMARKS
FTR A	VARIES	120	105	495	–	1	1-1/4"	CU	4-1/4" SQ	ALUM.	50/FT	SLOPE TOP	STERLING MODEL JVB-S	

AIR DOOR

UNIT NO	LOCATION	SERVES	LENGTH	MAX. DOOR HEIGHT	FAN DATA: CFM	SONES	BHP	HP	GLYCOL HOT WATER DATA*: MBH	EWT	LWT	GPM	PD	ELECTRICAL: VLT	PH	RPM	MAKE/MODEL	REMARKS
AD-1	LOADING/UTILITY STORAGE	LOADING DOOR	8'-0"	10'-0"	4,332	–	–	3 @ 1/2	142	160° F	120° F	8.0	–'	208	3	1,750	BERNER VSA3096W	w/ TWO ROW COIL

* – 35% PROPYLENE GLYCOL

MAKE-UP AIR UNIT

UNIT NO	LOCATION	SERVES	FAN SECTION: VENT AIR	CFM	EXT SP	WHEEL TYPE	FAN RPM	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	GAS SECTION: CAP MBH	AIR DATA: EAT	LAT	GAS DATA: INPUT MBH	VEL FPM	AIR PD	MAKE/MODEL	REMARKS
MAU-1	AREA C1 ROOF	KITCHEN HOOD EXHAUST	1,990	1,990	0.5"	CENTRIF.	1,314	1.0	1-1/2	480	3	1,725	120	0° F	55° F	130	500 MAX.	1.0 MAX.	GREENHECK DG-109	DBC ARRANGEMENT
MAU-2	AREA C1 ROOF	KITCHEN HOOD EXHAUST	2,480	2,480	0.6"	CENTRIF.	1,213	1.3	1-1/2	480	3	1,725	149	0° F	55° F	162	500 MAX.	1.0 MAX.	GREENHECK DG-110	DBC ARRANGEMENT
MAU-3	AREA C1 ROOF	KITCHEN HOOD EXHAUST	2,040	2,040	0.6"	CENTRIF.	1,363	1.1	1-1/2	480	3	1,725	123	0° F	55° F	133	500 MAX.	1.0 MAX.	GREENHECK DG-109	DBC ARRANGEMENT
MAU-4	AREA B1 ROOF	WELDING HOOD EXHAUST	4,560	4,560	0.6"	CENTRIF.	865	2.3	3	480	3	1,725	292	9° F	68° F	318	500 MAX.	1.0 MAX.	GREENHECK DG-115	

PLATE FRAME HEAT EXCHANGER

UNIT NO	LOCATION	SYSTEM SERVED	HOT SIDE: EWT	LWT	GPM	FOULING	PD	COLD SIDE – 35% PROPYLENE GLYCOL: EWT	LWT	GPM	FOULING	PD	SURFACE AREA	MAKE/MODEL	REMARKS
HX-1	B1 BOILER ROOM	AHU GHW COILS	160° F	120° F	256	0.0001	1.8'	105° F	120° F	640	0.0001	10.0'	460 SQFT	ALFA LAVAL AQ6M-FG	

DUCTLESS AIR CONDITIONING UNIT

UNIT NO	LOCATION	FAN DATA: CFM	ESP	CAP	COMPRESSOR: NO	SEER	ELECTRICAL: MIN. AMPACITY	VOLTS	PH	MAKE/MODEL	REMARKS
SS 1	ELECTRIC/MDF ROOMS	380 MIN 650 MAX	–	2 TONS	1	18.0	21 A	208	1	FRIEDRICH INDOOR MW24C3F FRIEDRICH OUTDOOR MR24C3F	WALL MOUNTED
SS 2	IDF ROOMS	240 MIN 415 MAX	–	1.5 TONS	1	19.0	16 A	208	1	FRIEDRICH INDOOR MW18C3F FRIEDRICH OUTDOOR MR18C3F	WALL MOUNTED

NOTES:
1. PROVIDE LITTLE GIANT CONDENSATE PUMP AT INDOOR UNITS WHERE SHOWN ON PLANS. MODEL NO. VCL-14ULS, 1/50HP, 120/1/60.
PROVIDE AUXILIARY DRAIN PAN WITH WATER LEVEL DETECTOR TO SHUT UNIT OFF UPON WATER DETECTION.

GLYCOL FILL PUMPS

UNIT NO	LOCATION	SYSTEM SERVED	RECEIVER: GALLONS	MATL	PUMP DATA: GPM	PSI	QUAN	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
GF-1	B1 BOILER ROOM	GLYCOL FILL	15	CI	1.5	40	1	1/3	115	1	1750	SKIDMORE VCS-11	

AIR PURIFIERS

ITEM	LOCATION	CFM	ELECTRICAL: AMPS	VOLTS	PH	MANUFACTURER	MODEL	REMARKS
AP-1	COSMETOLOGY ROOM 127	350	2.8	120	1	AIR IMPURITIES REMOVAL SYSTEMS, INC.	S031E	PROVIDE CASTOR BASE
AP-2	COSMETOLOGY ROOM 127	350	2.8	120	1	AIR IMPURITIES REMOVAL SYSTEMS, INC.	S031E	PROVIDE CASTOR BASE
AP-3	COSMETOLOGY ROOM 132	350	2.8	120	1	AIR IMPURITIES REMOVAL SYSTEMS, INC.	S031E	PROVIDE CASTOR BASE
AP-4	COSMETOLOGY ROOM 132	350	2.8	120	1	AIR IMPURITIES REMOVAL SYSTEMS, INC.	S031E	PROVIDE CASTOR BASE

ELECTRIC UNIT HEATERS

UNIT NO	LOCATION	SERVES	CAP KW	AIR DATA: CFM	EAT	LAT	ELECTRICAL: VOLTS	PHASE	STAGES	ELEMENT TYPE	MAKE/MODEL	REMARKS
EUH-1	BUILDING "D" GARAGE	STORAGE ROOM	5.0	350	60°F	105°F	208	1	–	ALUM. FINNED COPPER CLAD	QMARK MUH0581	SUPPLEMENTAL BID
EUH-2	BUILDING "D" GARAGE	STORAGE ROOM	1.5	65	60°F	100°F	208	1	–	ALUM. FINNED COPPER CLAD	QMARK QCH1202	SUPPLEMENTAL BID
EUH-3	BUILDING "D" GARAGE	STORAGE ROOM	1.5	65	60°F	100°F	208	1	–	ALUM. FINNED COPPER CLAD	QMARK QCH1202	SUPPLEMENTAL BID

CMR BID DOCUMENTS

Consultant
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MECHANICAL SCHEDULE SHEET #1

REVISIONS

Mark	Date	Description

CAD No. 0451MS01

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By ASW
Approved By PCS
Drawing No. M-401

FANS

UNIT NO	LOCATION	SYSTEM SERVED	TYPE	CFM	SP	BHP	FAN RPM	TIP SPEED	SOUND SONES	ELECTRICAL HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
EF-1	ROOF	AREA D1 UP LVL TOILETS	CENT. ROOF EXH.	1,000	0.5"	0.16	1,250	3,926	8.2	1/6	120	1	1750	LOREN COOK 120 ACEB	
EF-2	ROOF	AREA D1 UP LVL JAN CLOSET	CENT. ROOF EXH.	150	0.5"	0.13	1,595	4,175	9.5	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-3	ROOF	AREA B OIL ROOM EXH.	CENT. ROOF EXH.	200	0.5"	0.12	1,504	3,937	9.0	1/4	120	1	1750	LOREN COOK 70 ACEB	EXPLOSION PROOF
EF-4	ROOF	AUTO SHOP VEHICLE EXH.	CENT. ROOF EXH.	3,600	4.25"	4.0	2,737	10,748	96 LwA	5	480	3	1750	LOREN COOK 150 CPS	w/ VFD
EF-5	ROOF	AUTO SHOP TOILETS	CENT. ROOF EXH.	400	0.5"	0.14	1,413	3,699	7.7	1/6	120	1	1750	LOREN COOK 80 ACEB	
EF-6	ROOF	CAN/HEALTH TOILETS	CENT. ROOF EXH.	100	0.75"	0.14	1,688	4,419	9.5	3/4	480	3	1750	LOREN COOK 60 ACEB	
EF-7	ROOF	AREA B EAST TOILETS	CENT. ROOF EXH.	375	0.75"	0.096	1,689	4,421	8.9	1/6	120	1	1750	LOREN COOK 100 ACEB	w/ REDUCED WHEEL
EF-8	ROOF	AREA E TOILETS	CENT. ROOF EXH.	700	1.2"	0.22	1,523	5,382	11.0	1/4	120	1	1750	LOREN COOK 135 ACEB	w/ REDUCED WHEEL
EF-9	NOT USED														
EF-10	NOT USED														
EF-11	ROOF	AREA A1 SC PREP	CENT. ROOF EXH.	370	0.5"	0.12	1,368	3,581	7.2	1/6	120	1	1750	LOREN COOK 80 ACEB	
EF-12	ROOF	AREA A1 SC PREP	CENT. ROOF EXH.	230	0.5"	0.16	1,603	4,196	10.1	1/6	120	1	1750	LOREN COOK 70 ACEB	
EF-13	ROOF	AREA C4 TOILETS	CENT. ROOF EXH.	300	0.6"	0.27	1,915	5,013	14.5	1/4	120	1	1750	LOREN COOK 70 ACEB	
EF-14	ROOF	AREA C4 NURSE	CENT. ROOF EXH.	300	0.6"	0.27	1,915	5,013	14.5	1/4	120	1	1750	LOREN COOK 70 ACEB	
EF-15	ROOF	AREA C3 FITNESS	CENT. ROOF EXH.	675	1"	0.23	1,963	5,139	13.0	1/4	120	1	1750	LOREN COOK 100 ACEB	
EF-16	ROOF	AREA C3 LOCKER ROOMS	CENT. ROOF EXH.	2,400	1"	0.72	1,484	5,827	17.0	3/4	480	3	1750	LOREN COOK 150 ACEB	
EF-17	ROOF	AREA A2 TOILETS	CENT. ROOF EXH.	2,500	1"	0.75	1,242	5,365	15.5	1	480	3	1750	LOREN COOK 165 ACEB	
EF-18	ROOF	AREA C1 TOILETS	CENT. ROOF EXH.	800	0.75"	0.2	1,906	4,989	12.4	1/4	120	1	1750	LOREN COOK 100 ACEB	
EF-19	ROOF	AREA C1 TOILETS	CENT. ROOF EXH.	975	0.75"	0.19	1,391	4,369	9.3	1/4	120	1	1750	LOREN COOK 120 ACEB	
EF-20	NOT USED														
EF-21	ROOF	AREA A WORK ROOM	CENT. ROOF EXH.	50	0.4"	0.05	1,182	3,094	4.8	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-22	ROOF	CHILLER ROOM EXHAUST	CENT. ROOF EXH.	5,700	0.75"	1.68	963	5,678	18.3	2	480	3	1750	LOREN COOK 225 ACEB	
EF-23	ROOF	WELDING EXHAUST	CENT. ROOF EXH.	2,275	2.5"	1.5	2,354	8,319	–	1-1/2	480	3	1750	LOREN COOK 135 CPS	
EF-24	ROOF	PLASMA CUTTER EXHAUST	CENT. ROOF EXH.	2,275	2.5"	1.5	2,354	8,319	–	1-1/2	480	3	1750	LOREN COOK 135 CPS	w/ VFD
EF-25	ROOF	WELDING EXHAUST	CENT. ROOF EXH.	1,400	2.5"	0.86	2,354	7,395	–	1	480	3	1750	LOREN COOK 120 CPS	
EF-26	ROOF	WELDING EXHAUST	CENT. ROOF EXH.	1,400	2.5"	0.86	2,354	7,395	–	1	480	3	1750	LOREN COOK 120 CPS	
EF-27	ROOF	AREA D GARAGE EXHAUST	CENT. ROOF EXH.	1,850	0.63"	0.39	1,156	4,539	11.2	1/2	480	3	1750	LOREN COOK 150 ACEB	
EF-28	ROOF	AREA D GARAGE EXHAUST	CENT. ROOF EXH.	2,350	0.63"	0.51	1,083	4,678	12.0	3/4	480	3	1750	LOREN COOK 165 ACEB	
EF-29	PLUMBING	SOLDERING BENCHES	CENT. INLINE	1,200	4.7"	–	–	–	–	3	480	3	1750	NEDERMAN MODEL N40	w/ VFD
EF-30	ROOF	AREA E EXAM ROOM	CENT. ROOF EXH.	110	0.6"	0.13	1,550	4,057	8.3	1/4	120	1	1750	LOREN COOK 60 ACEB	
EF-31	GAS STORAGE BLDG. "B"	GAS STORAGE EXHAUST	CENT. INLINE	75	0.5"	–	–	–	–	1/4	120	1	1750	FANAM, INC. NICHE CAV150	EXPLOSION PROOF
EF-32	ACETYLENE STOR. BLDG. "B"	ACETYLENE STOR. EXHAUST	CENT. INLINE	75	0.5"	–	–	–	–	1/4	120	1	1750	FANAM, INC. NICHE CAV150	EXPLOSION PROOF
EF-33	ROOF	GENERAL VENTILATION	CENT. ROOF EXH.	9,600	0.5"	0.89	479	5,266	16.4	1	480	3	1750	LOREN COOK 42HEE7B	2-SPEED, DOUBLE WOUND MOTOR
EF-34	ROOF	GENERAL VENTILATION	CENT. ROOF EXH.	7,200	0.5"	0.7	595	5,607	17.0	3/4	480	3	1750	LOREN COOK 36HEE6B	2-SPEED, DOUBLE WOUND MOTOR
EF-35	ROOF	GENERAL VENTILATION	CENT. ROOF EXH.	11,750	0.5"	1.2	526	5,783	18.9	1-1/2	480	3	1750	LOREN COOK 42HEE8B	2-SPEED, DOUBLE WOUND MOTOR
EF-36	ROOF	GENERAL VENTILATION	CENT. ROOF EXH.	9,000	0.5"	0.8	467	5,134	15.8	1	480	3	1750	LOREN COOK 42HEE7B	2-SPEED, DOUBLE WOUND MOTOR
EF-37	ROOF	B WING TOILETS	CENT. ROOF EXH.	825	0.75"	0.2	1,936	5,068	12.9	1/4	120	1	1750	LOREN COOK 100 ACEB	
EF-38	ROOF	GENERAL VENTILATION	CENT. ROOF EXH.	200	0.75"	0.17	1,719	4,500	11.1	1/4	120	1	1750	LOREN COOK 70 ACEB	
EF-39	MANUFACTURIING BLDG. "B"	STRATIFICATION	CENT. INLINE	2,350	0.25"	0.44	1,261	4,951	16.4	1/2	480	3	1750	LOREN COOK 150 SQIB	
EF-40	MANUFACTURIING BLDG. "B"	STRATIFICATION	CENT. INLINE	2,350	0.25"	0.44	1,261	4,951	16.4	1/2	480	3	1750	LOREN COOK 150 SQIB	
EF-41	CARPENTRY BLDG. "B"	STRATIFICATION	CENT. INLINE	1,800	0.25"	0.34	1,441	5,092	13.8	1/2	480	3	1750	LOREN COOK 135 SQIB	
EF-42	CARPENTRY BLDG. "B"	STRATIFICATION	CENT. INLINE	1,800	0.25"	0.34	1,441	5,092	13.8	1/2	480	3	1750	LOREN COOK 135 SQIB	
EF-43	PLUMBING BLDG. "B"	STRATIFICATION	CENT. INLINE	1,900	0.25"	0.4	1,509	5,333	14.9	1/2	480	3	1750	LOREN COOK 135 SQIB	
EF-44	PLUMBING BLDG. "B"	STRATIFICATION	CENT. INLINE	1,900	0.25"	0.4	1,509	5,333	14.9	1/2	480	3	1750	LOREN COOK 135 SQIB	
EF-45	ELECTRICAL BLDG. "B"	STRATIFICATION	CENT. INLINE	1,450	0.25"	0.33	1,648	5,177	13.4	1/3	120	1	1750	LOREN COOK 120 SQIB	
EF-46	ELECTRICAL BLDG. "B"	STRATIFICATION	CENT. INLINE	1,450	0.25"	0.33	1,648	5,177	13.4	1/3	120	1	1750	LOREN COOK 120 SQIB	
EF-47	ROOF	B WING TOILETS	CENT. ROOF EXH.	225	0.75"	0.18	1,780	4,660	11.9	1/4	120	1	1750	LOREN COOK 70 ACEB	
EF-48	ROOF	D WING TOILET	CENT. ROOF EXH.	650	0.75"	0.19	1,746	4,571	10.5	1/4	120	1	1750	LOREN COOK 100 ACEB	
EF-49	ROOF	C WING TOILET	CENT. ROOF EXH.	100	0.5"	.084	1,414	3,701	7.2	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-50	ROOF	C WING TOILETS	CENT. ROOF EXH.	150	0.5"	0.13	1,595	4,175	9.5	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-51	ROOF	C WING KITCHENETTE	CENT. ROOF EXH.	150	0.5"	0.13	1,595	4,175	9.5	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-52	ROOF	C WING KITCHENETTE	CENT. ROOF EXH.	150	0.5"	0.13	1,595	4,175	9.5	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-53	ROOF	E WING JANITOR	CENT. ROOF EXH.	100	0.5"	.084	1,414	3,701	7.2	1/6	120	1	1750	LOREN COOK 60 ACEB	
EF-54	ROOF	PLASMA CUTTER EXHAUST	CENT. ROOF EXH.	2,275	2.5"	1.5	2,354	8,319	–	1-1/2	480	3	1750	LOREN COOK 135 CPS	w/ VFD
EF-55	GRINDER ROOM	GRINDING BENCHES	CENT. INLINE	750	2.5"	–	–	–	–	0.63 kW	480	3	1750	NEDERMAN MODEL N10	w/ VFD
KEF-1	ROOF	AREA C1 KITCHEN	CENT. ROOF EXH.	2,488	0.75"	0.52	1,025	–	12.8	3/4	480	3	1750	GREENHECK CUBE-180	
KEF-2	ROOF	AREA C1 KITCHEN	CENT. ROOF EXH.	3,100	1.0"	0.88	1,219	–	15.4	1	480	3	1750	GREENHECH CUBE-180	
KEF-3	ROOF	AREA C1 KITCHEN	CENT. ROOF EXH.	2,550	0.85"	0.59	1,076	–	13.3	3/4	480	3	1750	GREENHECK CUBE-180	
KEF-4	ROOF	DISHWASHER EXHAUST	CENT. ROOF EXH.	1,000	0.75"	0.23	1,410	4,429	10.9	1/3	120	1	1750	LOREN COOK 120 VCR	
KEF-5	NOT USED														
KEF-6	ROOF	RANGE EXHAUST	CENT. ROOF EXH.	856	0.75"	0.27	1,307	5,132	9.2	1/3	120	1	1750	LOREN COOK 150 VCR-HP	
KEF-7	ROOF	DISHWASHER EXHAUST	CENT. ROOF EXH.	750	0.75"	0.24	1,878	4,916	12.2	1/3	120	1	1750	LOREN COOK 100 VCR	
FHE-1	ROOF	FUME HOOD EXHAUST	ROOF TOP UPBLAST	770	0.75"	0.35	2,324	–	16.1	1/2	480	3	1725	GREENHECK TCB-LE-2-9	CONSTANT FLOW 6 INCH NOZZLE
FHE-2	ROOF	FUME HOOD EXHAUST	ROOF TOP UPBLAST	770	0.75"	0.35	2,324	–	16.1	1/2	480	3	1725	GREENHECK TCB-LE-2-9	CONSTANT FLOW 6 INCH NOZZLE

RADIANT CEILING PANELS

UNIT NO	LOCATION	EWT	LWT	NOMINAL OUTPUT BTU/FT	NO. PASSES	TUBE SIZE	TUBE MATL	PANEL WIDTH	PANEL MATL	PANEL PATTERN	MAKE/MODEL	REMARKS
RHP (A)	VARIES - REFER TO PLANS	120	105	130	4	1/2"	COPPER	24"	EXTRUDED ALUMINUM	V-GROOVED	AIRTEX / HEF-2	COLOR AS SELECTED BY ARCHITECT
RHP (B)	VARIES - REFER TO PLANS	120	105	60	2	1/2"	COPPER	12"	EXTRUDED ALUMINUM	V-GROOVED	AIRTEX / HEF-2	COLOR AS SELECTED BY ARCHITECT

REGISTERS, GRILLES & DIFFUSERS

PLAN DESIGNATION
Symbol
Face Size, Width, Number of Slots
Neck Size, Length
CFM
(A) #/#/#

PLAN DESIGNATION LEGEND
#S – Number of Slots
#W – Width in Inches
C – Continuous Length
ALP– Acoustical Lined Plenum

SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	REMARKS	SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	REMARKS
(A)	SUPPLY	CD	TITUS	TMSA-AA	ALUMINUM AS SEL. BY ARCH.	JET THROW	(B)	RETURN/ EXHAUST	CD	TITUS	55FL	ALUMINUM AS SEL. BY ARCH.	
(C)	SUPPLY	CD	TITUS	XC-310	ALUMINUM AS SEL. BY ARCH.		(D)	SUPPLY	CD	TITUS	DL	ALUMINUM AS SEL. BY ARCH.	
(E)	SUPPLY/ RETURN	LD	TITUS	FL	ALUMINUM AS SEL. BY ARCH.		(F)	SUPPLY	TR	TITUS	272FS	ALUMINUM AS SEL. BY ARCH.	
(G)	SUPPLY	CD	TITUS	TDC-A4	ALUMINUM AS SEL. BY ARCH.		(H)	RETURN	TR	TITUS	63FL	ALUMINUM AS SEL. BY ARCH.	
(I)	SUPPLY	CD	TITUS	TMRA-AA	ALUMINUM AS SEL. BY ARCH.		(J)	SUPPLY	LD	TITUS	FL	ALUMINUM AS SEL. BY ARCH.	HIGH THROW

SOUND ATTENUATORS

SA NO	FAN NO	DIM. W-H-L	CFM	VEL FPM	MAX. PD	INSERTION LOSS DB re: 20 mPA 63	125	250	500	1000	2000	4000	8000	MAKE/MODEL	REMARKS
SA-1	FHE-1	12"Øx20"ODx48"L	770	980	0.1"	8	9	14	25	13	14	13	15	VIBRO-ACOUSTICS MODEL CNM-HV-F2	STAINLESS STEEL NO MEDIA
SA-2	FHE-2	12"Øx20"ODx48"L	770	980	0.1"	8	9	14	25	13	14	13	15	VIBRO-ACOUSTICS MODEL CNM-HV-F2	STAINLESS STEEL NO MEDIA

VOLUME (VAV) BOXES

UNIT NO	CFM DES	CFM MIN	SP	DUCT CONN INLET	DUCT CONN OUTLET	REHEAT COIL MBH	EAT	LAT	PD	EWT	LWT	GPM	PD	PIPE CONN.	MAKE/MODEL
(A)	200	50	0.4	4"	12x8	6.5	60°F	90°F	0.15"	120	105	0.9	5'	3/4"	TITUS DESV
(B)	300	100	0.4	5"	12x8	9.7	60°F	90°F	0.15"	120	105	1.3	5'	3/4"	TITUS DESV
(C)	450	135	0.4	6"	12x8	14.6	60°F	90°F	0.15"	120	105	2.0	5'	3/4"	TITUS DESV
(D)	600	180	0.4	7"	12x10	19.4	60°F	90°F	0.15"	120	105	2.6	5'	3/4"	TITUS DESV
(E)	850	250	0.4	8"	12x10	27.5	60°F	90°F	0.15"	120	105	3.6	5'	3/4"	TITUS DESV
(F)	1000	300	0.4	9"	14x12 1/2	32.4	60°F	90°F	0.15"	120	105	4.3	5'	3/4"	TITUS DESV
(G)	1250	375	0.4	10"	14x12 1/2	40.5	60°F	90°F	0.15"	120	105	5.4	5'	1"	TITUS DESV
(H)	1750	585	0.4	12"	16x15	56.7	60°F	90°F	0.15"	120	105	7.6	5'	1"	TITUS DESV
(J)	2950	885	0.4	16"	24x18	95.6	60°F	90°F	0.15"	120	105	12.7	5'	1-1/4"	TITUS DESV
(K)	3450	975	0.4	24"x16"	38x18	105.3	60°F	90°F	0.15"	120	105	14.0	5'	1-1/4"	TITUS DESV

GAS FIRED UNIT HEATERS

UNIT NO	LOCATION	CFM	INPUT MBH	OUTPUT MBH	AIR DATA EAT	AIR DATA LAT	FUEL	GAS CONN.	ELECTRICAL HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
UH (C)	BUILDING "D" GARAGE	1,345	105	87.2	0	60	NAT. GAS	1/2"	1/4	208	1	1,050	REZNOR UDAP 100	
UH (D)	BUILDING "D" GARAGE	1,921	150	124.5	0	60	NAT. GAS	1/2"	1/4	208	1	1,050	REZNOR UDAP 150	

SYMBOL LIST

SYMBOL	DESCRIPTION
—LPS—	LOW PRESSURE STEAM
—LPR—	LOW PRESSURE RETURN
—HWS—	HOT WATER SUPPLY
—HWR—	HOT WATER RETURN
—CHS—	CHILLED WATER SUPPLY
—CHR—	CHILLED WATER RETURN
—CS—	CONDENSER WATER SUPPLY
—CR—	CONDENSER WATER RETURN
—PD—	PUMP DISCHARGE
—CD—	CONDENSATE DRAIN
—L—	LIQUID REFRIGERANT
—HG—	HOT GAS
—S—	SUCTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	THREE WAY VALVE
	STRAINER WITH BLOW DOWN VALVE
MV	MOTORIZED VALVE
	UNION
	TOP TAKE OFF
	BOTTOM TAKE OFF
	AIR VENT
	THERMOMETER
	PIPE GUIDE
	SEISMIC JOINT FLEX CONNECTION
	ANCHOR POINT
EOM	END OF MAIN DRIP
— — —	ZONE BOUNDARY
LD,CD	LINEAR, CEILING DIFFUSER
LR,CR,TR,BR	LINEAR, CEILING, TOP, BOTTOM REGISTER
LG,CG,TG,BG	LINEAR, CEILING, TOP, BOTTOM GRILLE
OBD	OPPOSED BLADE DAMPER
M	MOTORIZED DAMPER
M	COMBINATION FIRE/SMOKE DAMPER
FC	FLEXIBLE CONNECTION
12 X 8	LINED DUCT–SIZE IS CLEAR INSIDE DIM.
(T)	THERMOSTAT
(H)	HUMIDISTAT
(CO)	CARBON MONOXIDE MONITOR
	DUCT MOUNTED SMOKE DETECTOR
FRE	FIRE RATED ENCLOSURE
BOD	BY OTHER DIVISION
ALP	ACOUSTICALLY LINED PLENUM
—O—O—	EXISTING PIPE TO REMAIN
—X—X—	EXISTING PIPE TO BE REMOVED
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
FA	FREE AREA
	VOLUME DAMPER
V.D., C.O.D.	VOLUME DAMPER, CORD OPERATED DAMPER
	UNDERCUT DOOR
CFM #	VARIABLE AIR VOLUME BOX # – UNIT NUMBER PER SCHEDULE CFM – SUPPLY AIR VOLUME
CFM #	VARIABLE AIR VOLUME BOX w/ HW COIL # – UNIT NUMBER PER SCHEDULE CFM – SUPPLY AIR VOLUME
	DUCT ELBOW DN
	DUCT ELBOW UP
	SUPPLY AIR DIFFUSER
	RETURN AIR REGISTER w/ OBD

GENERAL NOTE:
1. REFER TO DIVISION 15 SPECIFICATIONS FOR FURTHER CLARIFICATION OF SCOPE.
2. WHERE NEW PENETRATIONS ARE REQUIRED THROUGH EXISTING WALLS OR PARTITIONS REFER TO STRUCTURAL DRAWINGS FOR LINTEL REQUIREMENTS.

CMR BID DOCUMENTS

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Professional Seal & Signature
STATE OF CONNECTICUT
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MECHANICAL SCHEDULE AND SYMBOL #2

REVISIONS

Mark	Date	Description

CAD No. 0451MS02

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale NONE
Drawn By ASW
Approved By PCS
Drawing No. M-402

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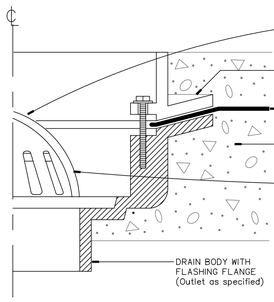
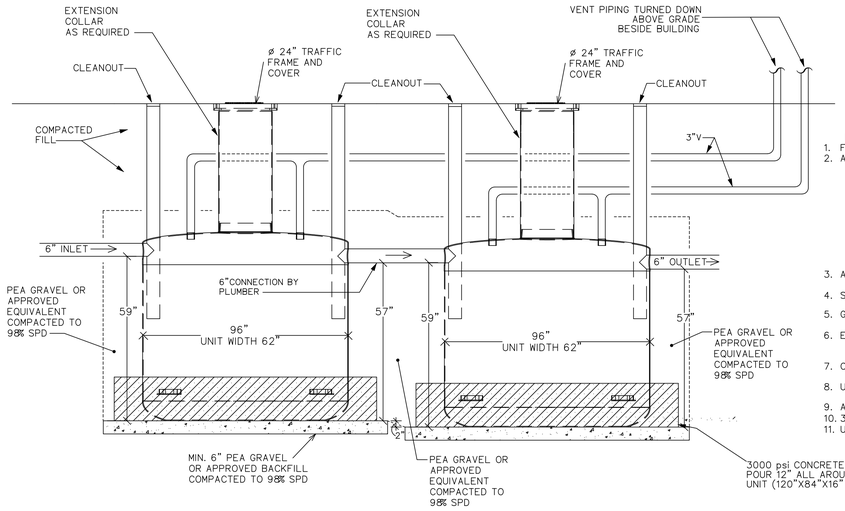


1 P-001 FLOOR DRAIN DETAIL (FD)

NTS



NOTES:
1. FOR GRAVITY APPLICATIONS ONLY
2. ALL PROCEPTOR UNITS ARE MANUFACTURED WITH FIBERGLASS REINFORCED PLASTICS, PHYSICAL CHARACTERISTICS AND THICKNESS:
   POLYESTER RESIN AND E GLASS
   MINIMUM THICKNESS 1/4" WALL AND 3/8" TOP AND BOTTOM BOWLS
   MINIMUM BURIAL DEPTH = 24' FOR NON TRAFFIC RATED AND
   MINIMUM BURIAL DEPTH = 36' FOR TRAFFIC RATED
   MAXIMUM BURIAL DEPTH = 7 FEET
   (GRADE TO INVERT OF INLET)
   FOR DEEPER INSTALLATIONS CALL GREEN TURTLE FOR CUSTOM REINFORCEMENT
3. ALL PROCEPTOR UNITS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTION
4. STANDARD PIPE STUBS ARE SOCKET SDR 35 PVC SEWER MATERIAL (SCHEDULE 40 ADAPTORS ADDED FOR ALL PROJECTS IN USA.)
5. GMC/OMC 500-3000 UNITS COME STANDARD WITH 6' INLET AND OUTLET (OTHER CUSTOM SIZES AVAILABLE AT EXTRA CHARGE).
6. EXTENSION COLLAR TO BE ORDERED TO MEET FINISHED GRADE, CUT ON SITE FOR FINAL ADJUSTMENT AND CAULKED WITH SIKAFLEX BY CONTRACTOR IF WATERTIGHT SEAL REQUIRED.
7. COVERS AVAILABLE FOR H20 TRAFFIC LOADING, PEDESTRIAN LOADING OR ABOVE GROUND INSTALLATION.
8. UNLIMITED CAPACITY AVAILABLE. CONSULT GREEN TURTLE FOR OTHER SIZES.
9. ALL PROCEPTOR UNITS ARE FACTORY TESTED.
10. 30 YEAR WARRANTY AGAINST LEAKS, AND STRUCTURAL FAILURE.
11. U.S PATENT # 5,746,912; CDN PATENT #2,195,822

3 P-001 GREASE INTERCEPTOR DETAIL

NO SCALE

SYMBOLS & ABBREVIATIONS

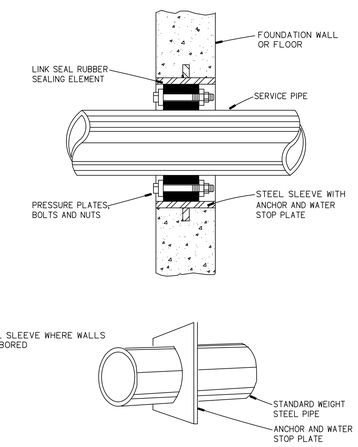
SYMBOL OR ABBREV	DESCRIPTION
AW	ACID WASTE PIPING (AW)
AV	ACID VENT PIPING (AV)
AVTR	ACID VENT THRU ROOF
SI	SOLIDS INTERCEPTOR
FFD	FUNNEL FLOOR DRAIN
DB	DOWNSPOUT BOOT
QC	QUICK CONNECT COUPLING
AS	ART ROOM SINK
TS	TROUGH SINK
CV	CHEM VENT
BOD	BY OTHER DIVISION
PRV	PRESSURE REDUCING VALVE

SYMBOLS & ABBREVIATIONS

SYMBOL OR ABBREV	DESCRIPTION
VAC	VACUUM PIPING BELOW SLAB (VAC) (TRENCHED)
WV	WET VENT PIPING (WV)
G	GAS PIPING (G)
GD	GARAGE DRAINAGE PIPING BELOW SLAB (GD) (TRENCHED)
S	SANITARY SEWER ABOVE FINISHED FLOOR (S)
S	SANITARY SEWER BELOW FINISHED FLOOR (S) (TRENCHED)
ST	STORM SEWER ABOVE FINISHED FLOOR (ST)
ST	STORM SEWER BELOW FINISHED FLOOR (ST) (TRENCHED)
TP	TRAP PRIMER PIPING (TP)
V	VENT PIPING (V)
W	WASTE PIPING ABOVE FINISHED FLOOR (W)
W	WASTE PIPING BELOW FINISHED FLOOR (W) (TRENCHED)
	DOMESTIC COLD WATER PIPING (CW)
	DOMESTIC HOT WATER PIPING (HW)
	DOMESTIC HOT WATER RECIRC. PIPING (HWR)
	DOMESTIC HOT WATER PIPING, 140 DEGREE (140°HW)
	DOMESTIC HOT WATER REC. PIPING, 140 DEGREE (140°HWR)
IW	INDIRECT WASTE (IW) SPILL TO FD/FS
	PIPE DROP/DOWN
	PIPE RISE/UP
	AQUASTAT
	WATERTIGHT WALL SLEEVE
	BALANCING VALVE
	BALL VALVE
	CHECK VALVE
	GAS/COMPRESSED AIR VALVE
	GATE VALVE
	UNION
¢	SQUARE FEET
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CFH	CUBIC FEET PER HOUR
CLG	CEILING
KW	KITCHEN WASTE PIPING BELOW FINISHED FLOOR (KW) (TRENCHED)
CO	CLEANOUT
DPCO	DECKPLATE CLEANOUT
DF	ELECTRIC WATER COOLER
ESC	EMERGENCY EYEWASH/SHOWER COMBINATION
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FPHB	FREEZE PROOF HOSE BIBB
HC	HANDICAP ACCESSIBLE FIXTURE
TV	POINT OF USE TEMPERING VALVE
LAV	LAVATORY
MR	MOP RECEPTOR
NIPC	NOT IN PLUMBING CONTRACT
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SH	SHOWER
UR	URINAL
VTR	VENT THRU ROOF
WC	WATERCLOSET
WPCO	WALLPLATE CLEANOUT
FS	FLOOR SINK
	FIXTURE TYPE. SEE SPEC.
	EMERGENCY GAS SHUTOFF VALVE (EGV)
AD	AREA DRAIN
KW	KITCHEN WASTE PIPING
HB	HOSE BIBB
MU	MAKE-UP WATER PIPING
AAV	AIR ADMITTANCE VALVE
SHD	SHOWER DRAIN
CA	COMPRESSED AIR PIPING
sf	SQUARE FEET
CHW	CHILLED WATER
WF	WASHFOUNTAIN
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED/ABANDONED UNDERGROUND
VIF	VERIFY EXACT LOCATION IN FIELD
ANT	POINT OF USE ACID NEUTRALIZING TANK
BW	BLENDED WATER
	NEW CONNECTION TO EXISTING SYMBOL
CO	CLEANOUT
PD	PUMP DISCHARGE PIPING
	PIPING ELECTRICALLY HEAT TRACED
VB	VACUUM BREAKER
EGV	EMERGENCY GAS VALVE
LS	LAB SINK

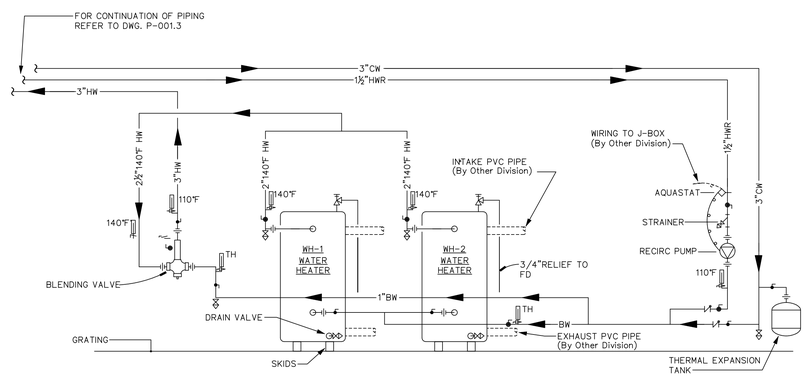
NOTES
1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF TERMINATION POINTS OF OVERFLOW ROOF DRAINAGE (ORD) SYSTEM.
2. INSULATE ALL DOMESTIC WATER PIPING. INSULATE ALL HORIZONTAL STORM PIPING ABOVE SLAB ON GRADE.
3. REFER TO OTHER DIVISIONS OF THESE DOCUMENTS FOR COORDINATION, PRIOR TO INSTALLATION.
4. REFER TO THE PHASING DOCUMENTS FOR TIMING, SCHEDULING AND COORDINATION OF INSTALLATIONS AND REMOVALS.
5. REINSULATE EXISTING TO REMAIN DOMESTIC WATER PIPING WITH NEW.
6. OCCUPIED AREAS SHALL REMAIN ACTIVE AND PROVIDED WITH DOMESTIC WATER (HOT AND COLD), AIR, AND NATURAL GAS AS REQUIRED. CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL AS REQUIRED TEMPORARY CONNECTIONS TO PROVIDE THESE SERVICES.
7. REFER TO SPECIFICATION 15550 FOR ADDITIONAL INFORMATION AND SCOPE.
8. THE CONTRACTOR SHALL PROVIDE AT THE END OF EACH PHASE COMPLETE, FUNCTIONAL, TESTED AND FULLY OPERATIONAL SYSTEMS READY FOR USE BY THE OWNER.
9. WHEN EXISTING PIPING, EQUIPMENT, DUCTWORK, CONDUIT ETC. IS REMOVED FROM A WALL, FLOOR OR CEILING THE CONTRACTOR SHALL PROVIDE AN APPROVERY FIRE AND SMOKE SEALANT AND SHALL PATCH AS REQUIRED.

CMR BID DOCUMENTS



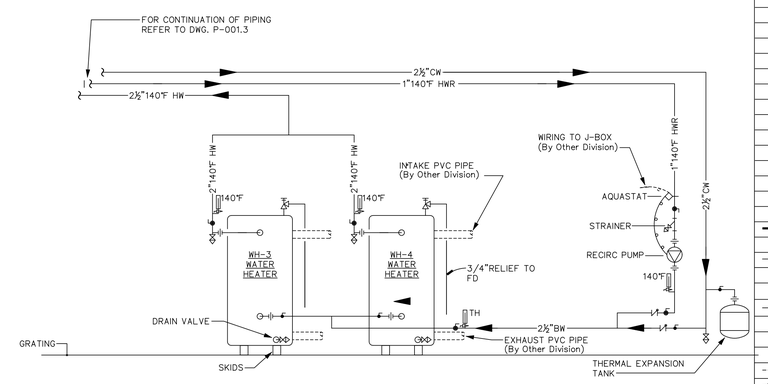
2 P-001 WATER TIGHT SLEEVE DETAIL

SCALE: NONE



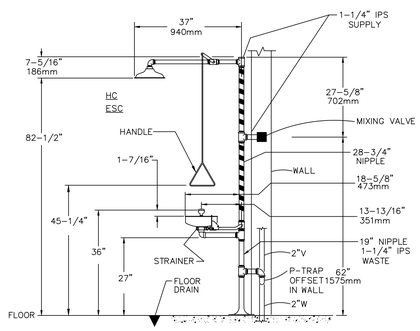
4 P-001 MAIN WATER HEATER'S PIPING DIAGRAM

NO SCALE



5 P-001 FOOD SERVICE WATER HEATER'S PIPING DIAGRAM

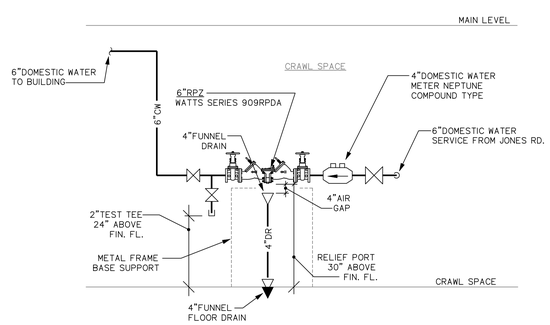
NO SCALE



DIMENSIONS MAY VARY ±1/2" [12.7mm]

6 P-001 EMERGENCY EYEWASH/DRENCH STATION DETAIL

SCALE: NONE



7 P-001 BACKFLOW PREVENTER (RPZ) DETAIL

SCALE: NONE

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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAILS & SYMBOL LIST
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451DETP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

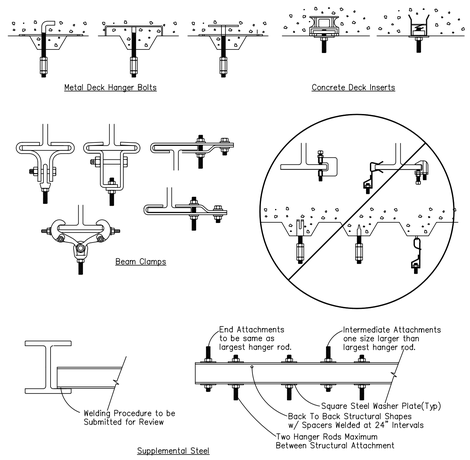
Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By MFic
Approved By PCS
Drawing No. P-001

FILE:0451ts REV:02/01/2007 17:15
FILE:0451DETP REV: 06/13/12 13:48
FILE:0451DETPREV: 06/22/06 10:38

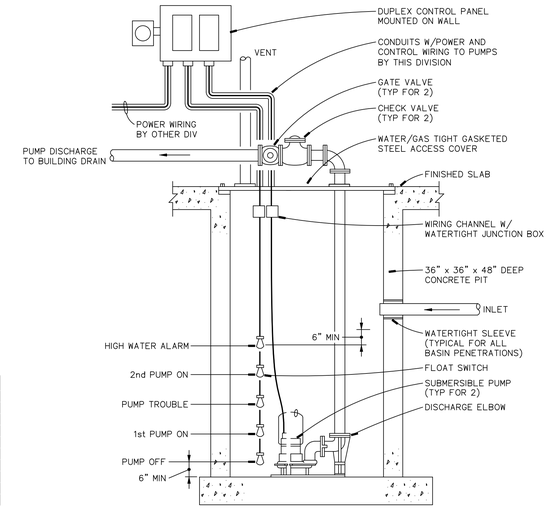
PLUMBING GENERAL NOTES

1. REMOVE ALL FIXTURES & PIPING AS NOTED ON REMOVAL PLANS.
2. THESE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC ONLY, THE LOCATION AND ELEVATIONS OF EXISTING EQUIPMENT AND PIPING INDICATED ON THE DRAWINGS HAS BEEN TAKEN FROM AVAILABLE DRAWINGS AND/OR FIELD SURVEYS, BUT MAY VARY SLIGHTLY FROM ACTUAL CONDITIONS. THE PLUMBING CONTRACTOR SHALL VERIFY ALL TRUE SIZES, LOCATIONS AND ELEVATIONS OF EQUIPMENT AND PIPING (INCLUDING PIPING RUN BELOW SLAB) IN THE FIELD PRIOR TO INSTALLATION.
3. NEW CONSTRUCTION AREA'S ARE TO BE TEMPORARILY CONNECTED TO EXISTING PIPING PRIOR TO PHASED RENNOVATION OF ADJACENT EXISTING AREA'S.
4. THE PLUMBING CONTRACTOR SHALL VISIT THE PROJECT AT THE TIME OF BID TO EXAMINE CONDITIONS AND FAMILIARIZE HIMSELF WITH THE JOB NOTING DEGREE OF DIFFICULTY IN GETTING EQUIPMENT IN AND OUT OF THE CONSTRUCTION AREA & TO CONFIRM THE SCOPE OF WORK.
5. THE PLUMBING CONTRACTOR SHALL VERIFY ALL PIPING IN THE FIELD EITHER BY DYE OR FLOW TESTING BEFORE MAKING NEW CONNECTIONS TO EXISTING PIPING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE ANY CONNECTIONS ARE MADE.
6. THE PLUMBING CONTRACTOR SHALL VERIFY THE SIZES AND LOCATIONS OF ALL EXISTING PIPING IN THE FIELD BEFORE MAKING NEW CONNECTIONS TO EXISTING PIPING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE ANY CONNECTIONS ARE MADE.
7. THE PLUMBING CONTRACTOR SHALL SEAL AROUND ALL NEW PIPE PENETRATIONS THROUGH NEW AND EXISTING STRUCTURES WITH SEALANT OF FIRE RETARDANT TYPE EQUAL IN FIRE RATING TO STRUCURE PENETRATED. SEALANT SHALL EXTEND FULL THICKNESS OF STRUCTURE. CONTRACTOR SHALL VERIFY FIRE RATED WALLS. IF WALLS ARE NOT FIRE RATED THEN FIRE SEALANT SHALL NOT BE REQUIRED.
8. THE CONTRACTOR SHALL VERIFY CONDITION OF EXISTING PIPING PRIOR TO MAKING NEW CONNECTIONS. ANY PIPING FOUND TO BE DETERIORATED AND/OR UNSUITABLE FOR USE SHALL BE REPORTED TO THE ENGINEER FOR EVALUATION.
9. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AURHORITIES HAVING JURISDICTION AND WITH THE PROVISIONS OF ALL STATE AND FEDERAL CODES AND LAWS.
10. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL EQUIPMENT AND PIPING LOCATIONS WITH OTHER TRADES AND STRUCTURES.
11. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
12. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SCOPE OF WORK WITH THE DEMOLITION CONTRACTOR. ANY ITEM REMOVED OUTSIDE THE SCOPE OF WORK SHALL BE REPLACED AT THE PLUMBING CONTRACTOR'S EXPENSE.
13. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PHASING & TEMPORARY CONSTRUCTION WITH THE CONSTRUCTION MANAGER AND OTHER DIVISION OF THE DOCUMENTS.
14. PLUMBING CONTRACTOR TO PROVIDE CUTTING AND PATCHING FOR DEMOLITION AND REMOVALS ASSOCIATED WITH PLUMBING WORK, & NEW PLUMBING WORK. REFER TO SPEC. SECTION 15000.3.12.
15. REFER TO PHASING DOCUMENTS FOR TIMING AND COORDINATION.
16. REFER TO SPECIFICATIONS 15000, 15050 FOR ADDITIONAL INFORMATION.

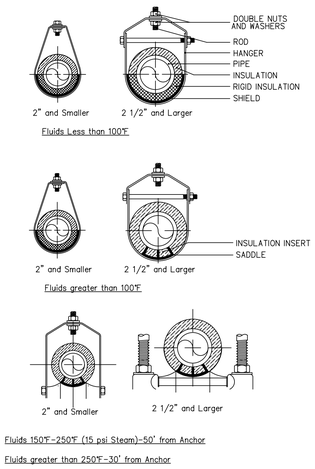


HANGER SCHEDULE		
PIPE SIZE	ROD SIZE	MAX. SPACING
up to 1 1/4"	3/8" DIA.	8' Steel
up to 1 1/4"	3/8" DIA.	6' Copper & Brass
1 1/2" & 2"	3/8" DIA.	10'
2 1/2" & 3"	1/2" DIA.	10'
4" & 5"	5/8" DIA.	10'
6"	3/4" DIA.	10'
8", 10", 12"	7/8" DIA.	10'
14" & 16"	1" DIA.	10'
18"	1 1/8" DIA.	10'

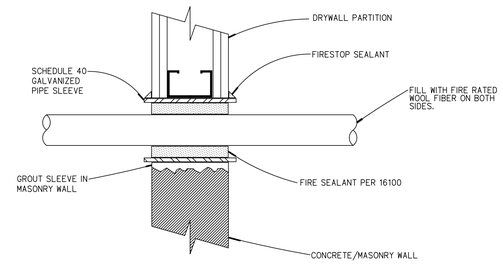
4 P-002 ATTACHMENT DETAIL
NOT TO SCALE



1 P-002 DUPLEX SUMP PUMP DETAIL
NTS

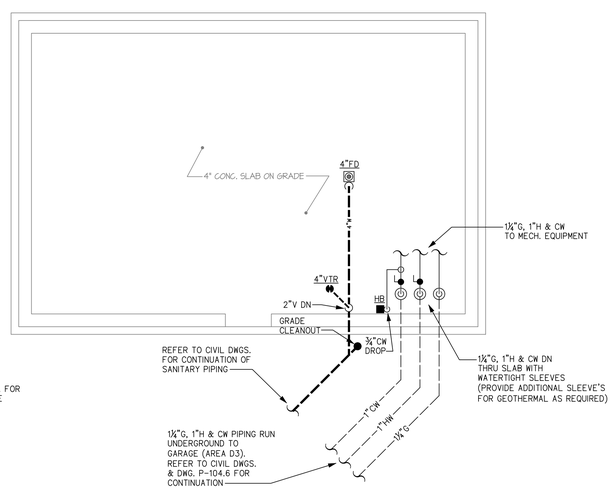


5 P-002 PIPE HANGER DETAIL
NOT TO SCALE



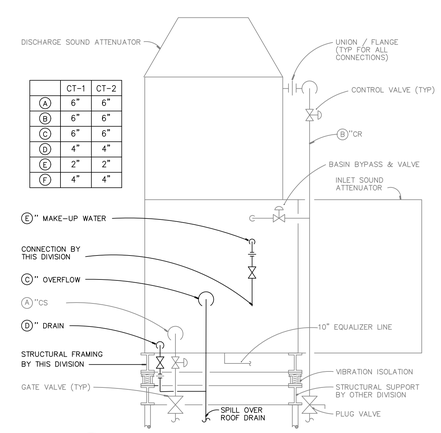
NOTE: FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE 15000. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.

2 P-002 FIRE-RATED WALL PENETRATION
SCALE: NONE



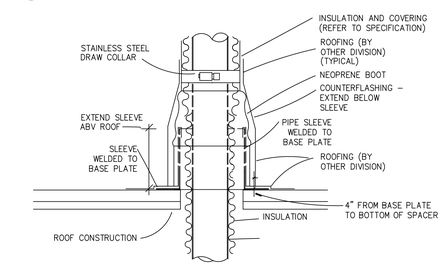
NOTE:
REFER TO CIVIL DWGS. FOR LOCATION OF E HOUSE ON SITE

7 P-002 E HOUSE PLUMBING PLAN
SCALE: 1/8"=1'-0"



	CT-1	CT-2
(A)	6"	6"
(B)	6"	6"
(C)	6"	6"
(D)	4"	4"
(E)	2"	2"
(F)	4"	4"

6 P-002 COOLING TOWER
NOT TO SCALE



3 P-002 PIPING ROOF PENETRATION - PIPING

CMR BID DOCUMENTS

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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAILS & NOTES
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451DETP2

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

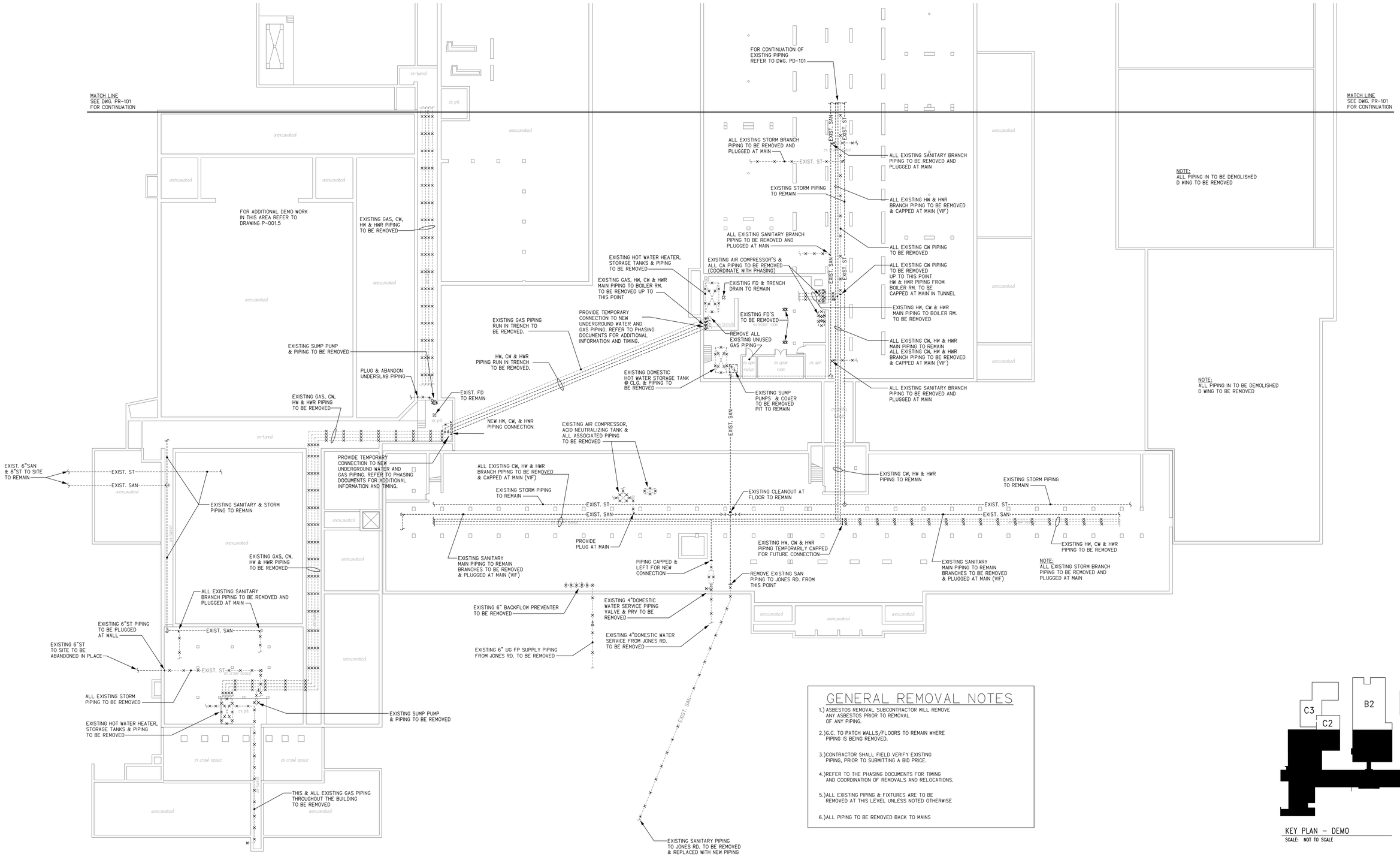
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By MFlc
Approved By PCS
Drawing No. P-002

FILE:0451b REV:02/01/2007 17:15 FILE:0451DETP2 REV: 06/14/12 15:37



GENERAL REMOVAL NOTES

1.) ASBESTOS REMOVAL SUBCONTRACTOR WILL REMOVE ANY ASBESTOS PRIOR TO REMOVAL OF ANY PIPING.

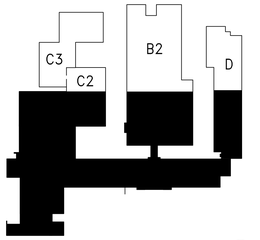
2.)G.C. TO PATCH WALLS/FLOORS TO REMAIN WHERE PIPING IS BEING REMOVED.

3.)CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING, PRIOR TO SUBMITTING A BID PRICE.

4.)REFER TO THE PHASING DOCUMENTS FOR TIMING AND COORDINATION OF REMOVALS AND RELOCATIONS.

5.)ALL EXISTING PIPING & FIXTURES ARE TO BE REMOVED AT THIS LEVEL UNLESS NOTED OTHERWISE

6.)ALL PIPING TO BE REMOVED BACK TO MAINS



KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
TUNNEL REMOVALS PLAN
NORTH – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451NBP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MFic
Approved By PCS
Drawing No. PR-100

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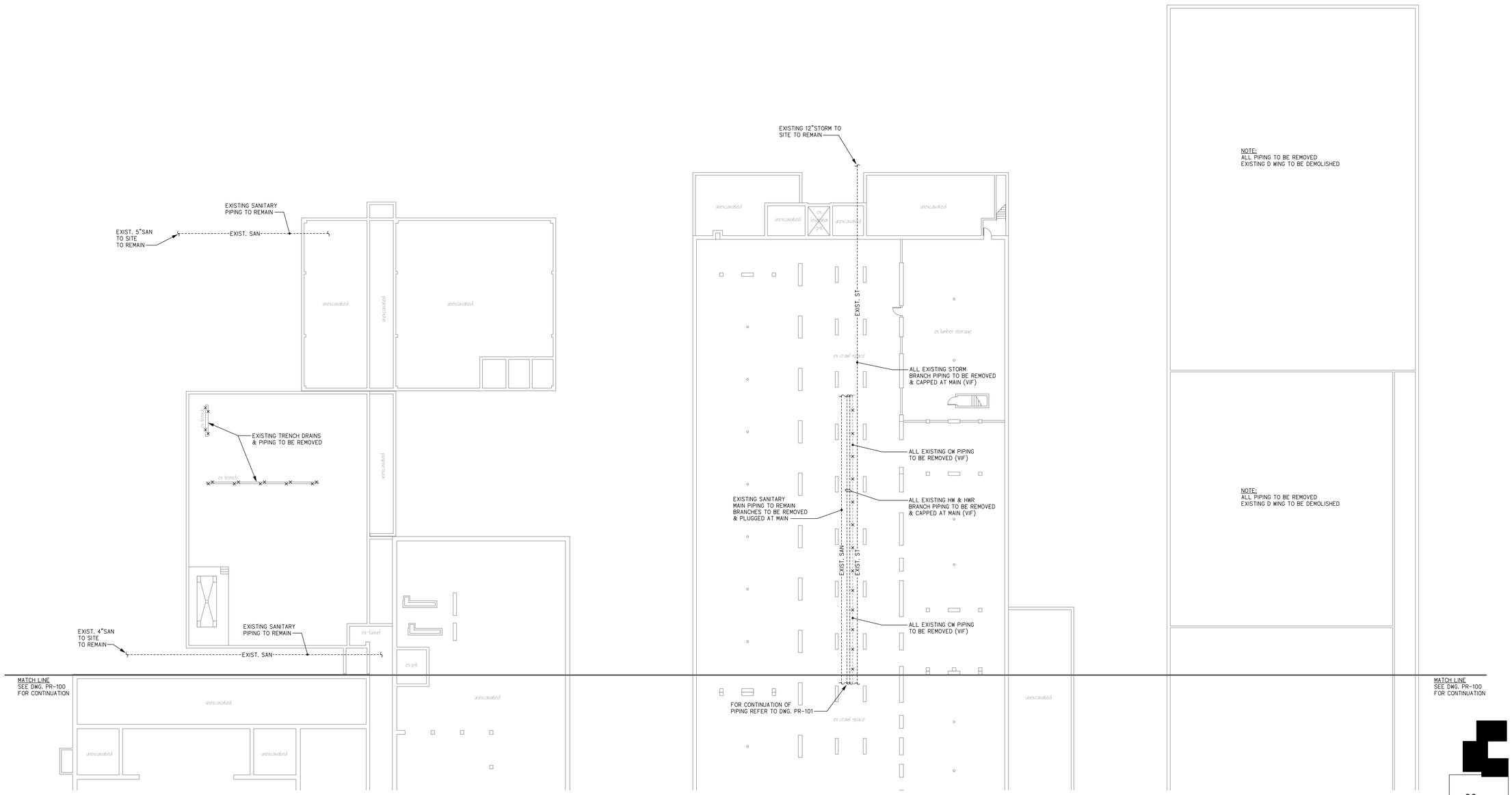

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

CMR BID DOCUMENTS

Consultant AllisettSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title TUNNEL REMOVALS PLAN SOUTH – PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 04515BP	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/16" = 1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	PR-101

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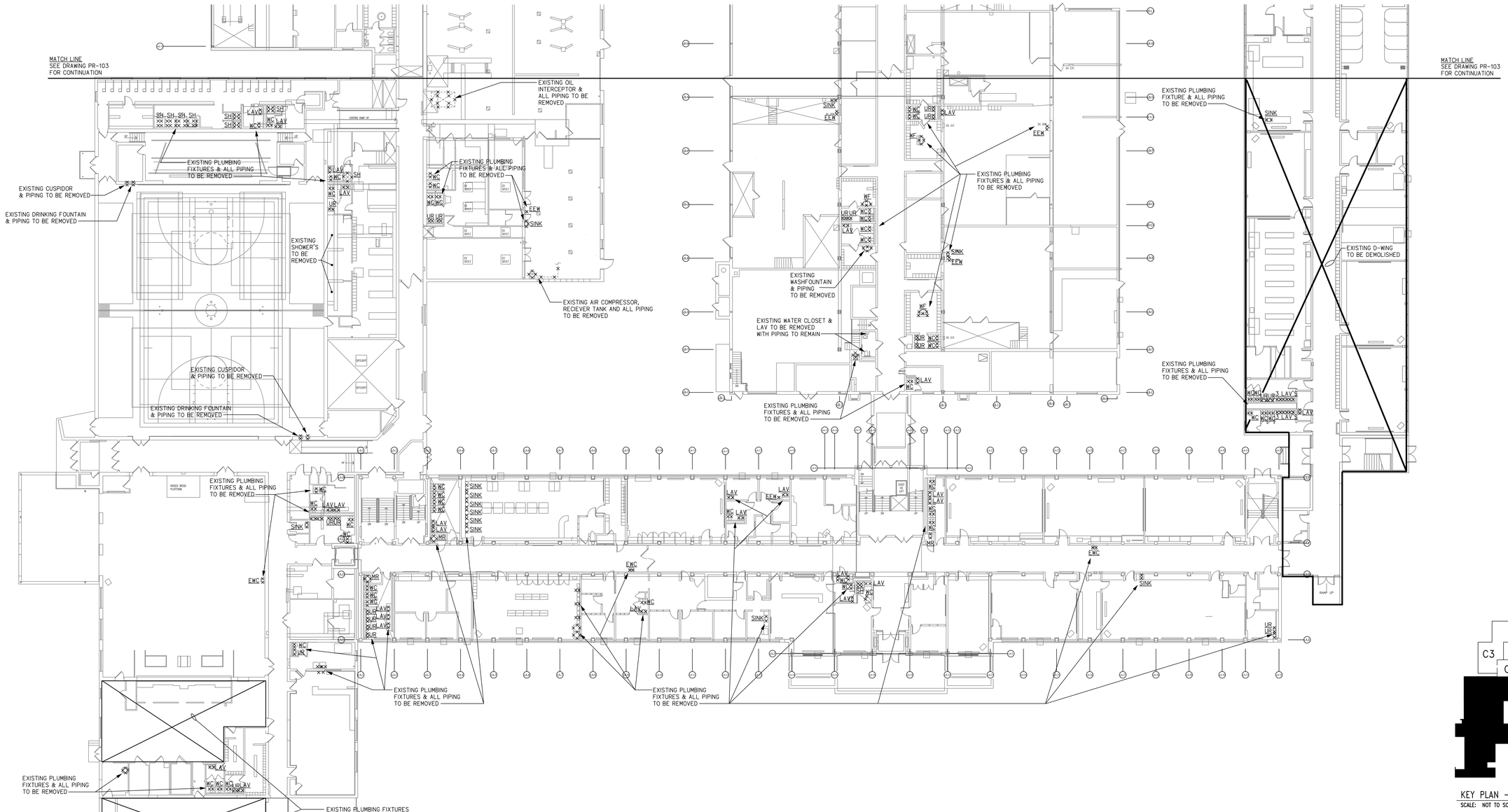

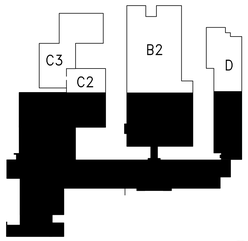

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

CMR BID DOCUMENTS

Consultant
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MAIN FLOOR REMOVALS PLAN
NORTH – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451NMP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MPlc
Approved By PCS
Drawing No. PR-102

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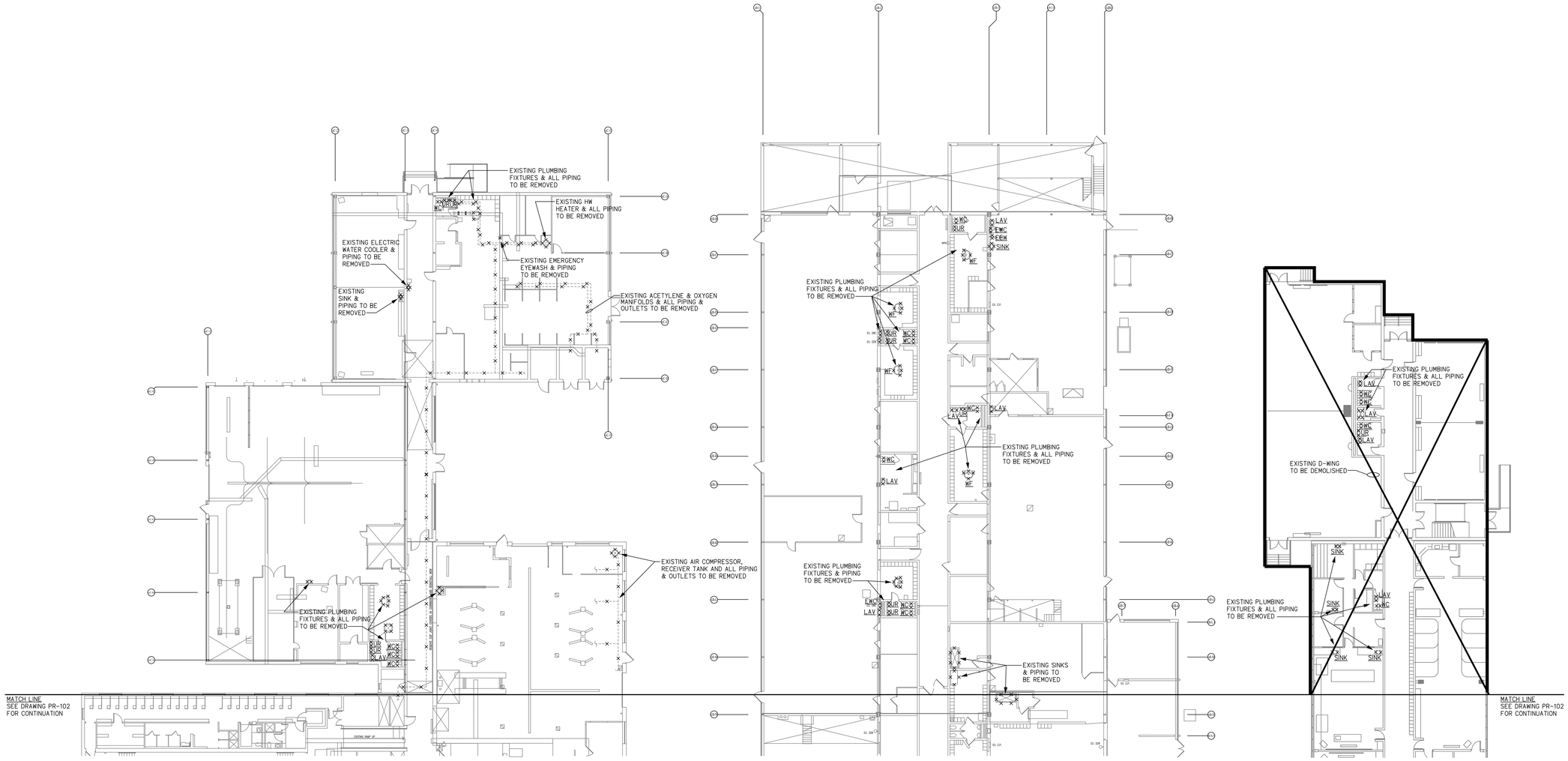

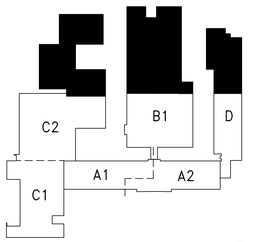

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

Consultant
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IN BLUE

Drawing Title
MAIN FLOOR REMOVALS PLAN
SOUTH – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 04515MP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MPic
Approved By FCS
Drawing No. PR-103

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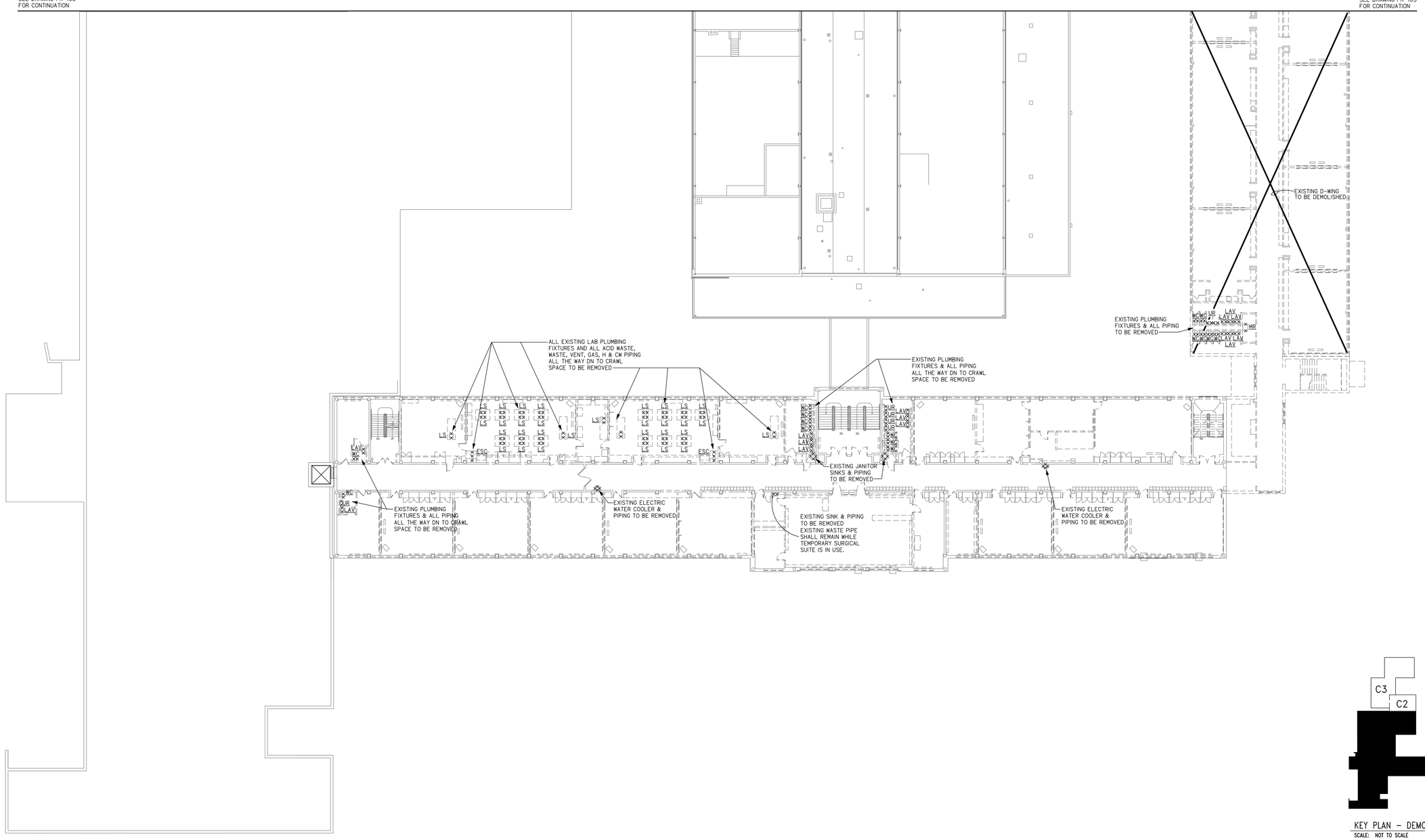
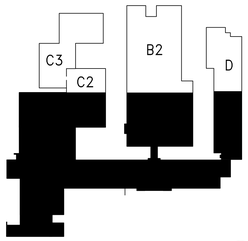
MATCH LINE
SEE DRAWING PR-105
FOR CONTINUATION

MATCH LINE
SEE DRAWING PR-105
FOR CONTINUATION





KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

CMR BID DOCUMENTS

Consultant AllisonSeboWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title UPPER FLOOR REMOVALS PLAN NORTH – PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045INUP	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. PR-104

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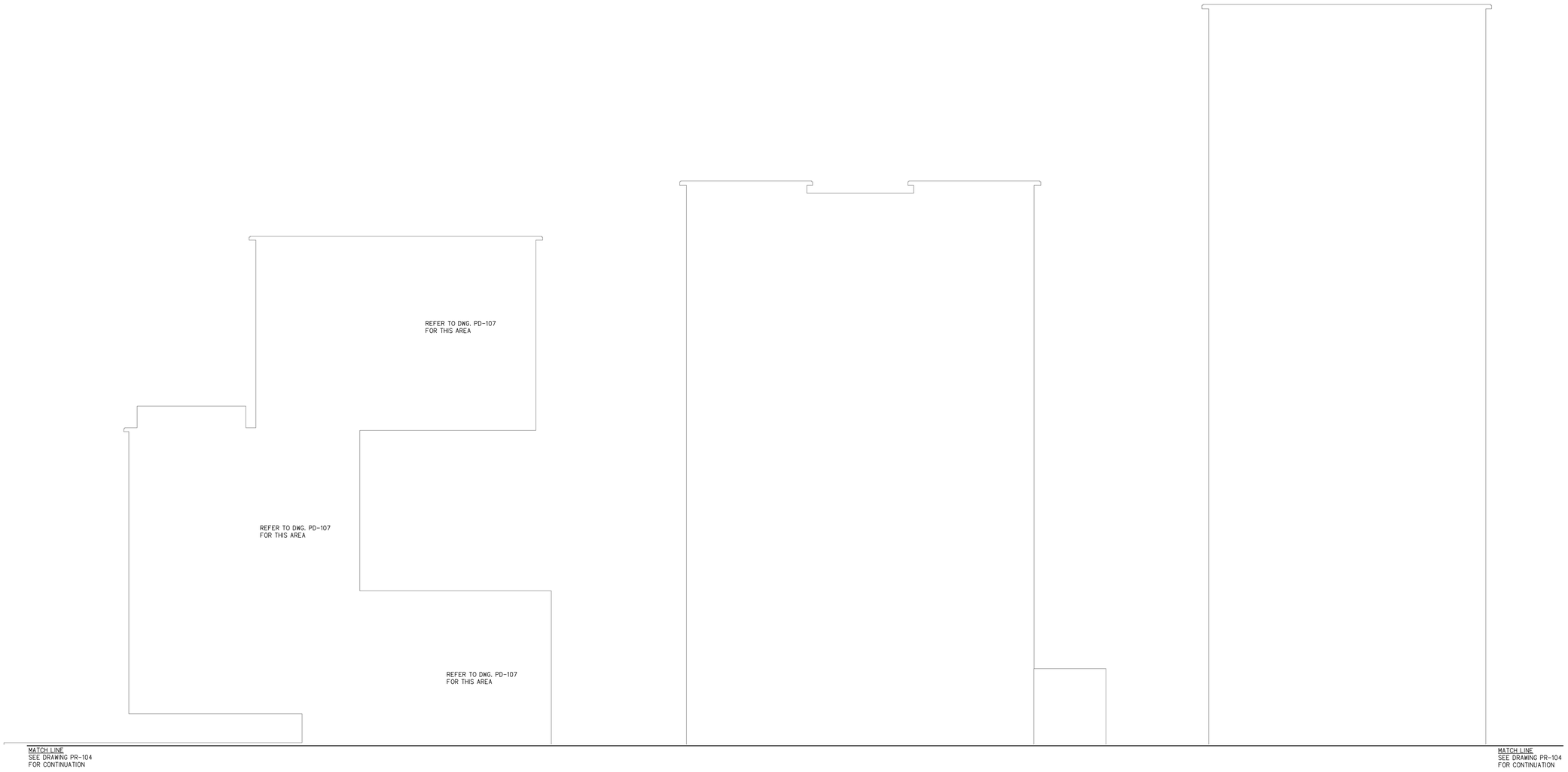

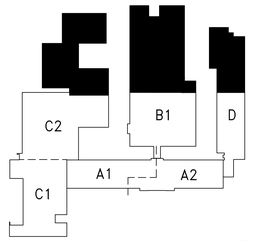

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

CMR BID DOCUMENTS

Consultant AlbertSeboeWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title UPPER FLOOR REMOVALS PLAN SOUTH – PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451SUP	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/16"=1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	PR-105

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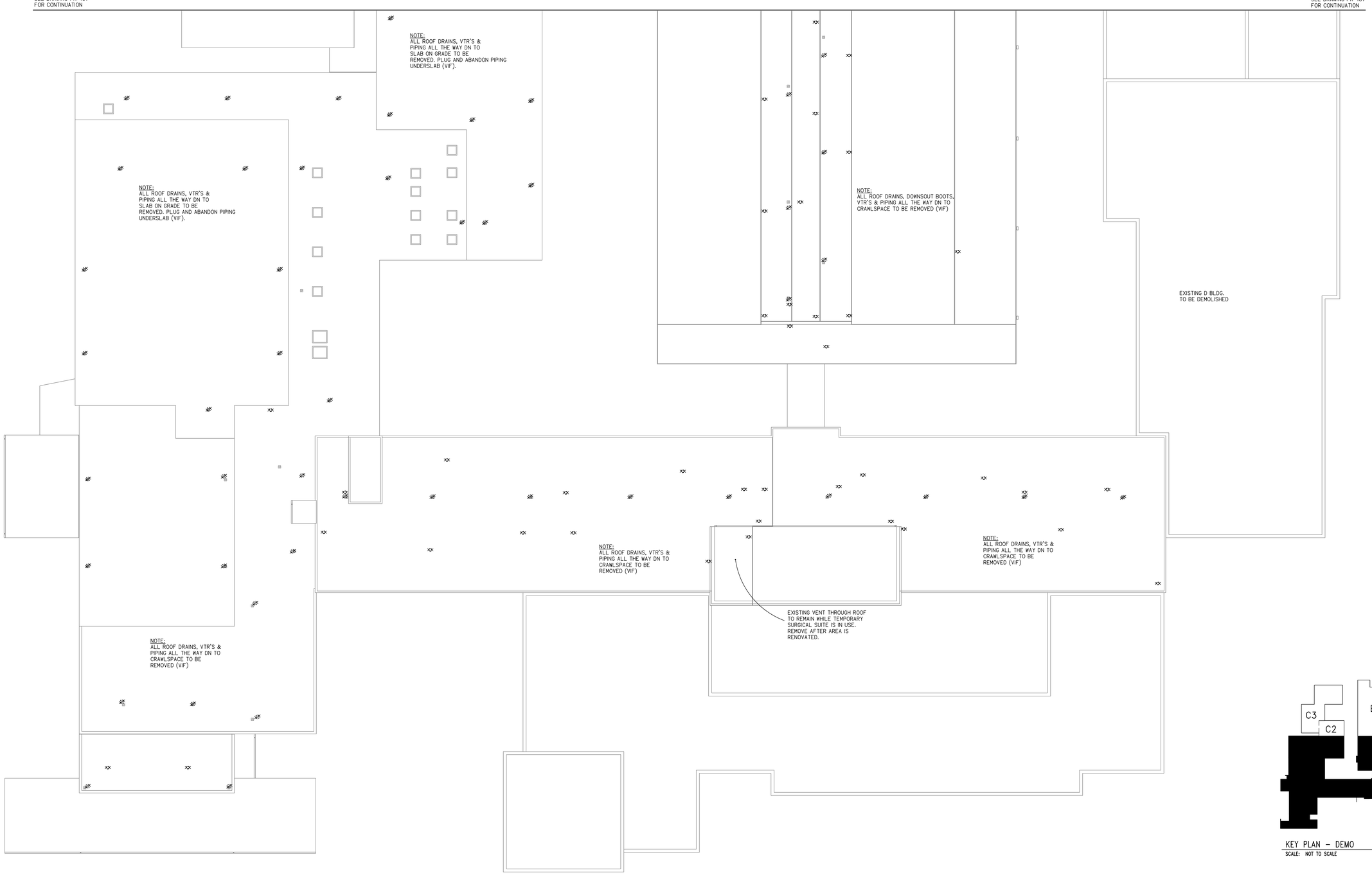
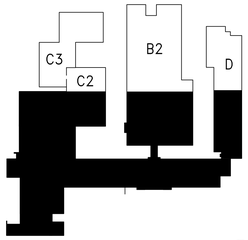
MATCH LINE
SEE DRAWING PR-107
FOR CONTINUATION

MATCH LINE
SEE DRAWING PR-107
FOR CONTINUATION





KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
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Professional Seal & Signature
STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22078
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ROOF REMOVALS PLAN
NORTH – PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451NRP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. PR-106

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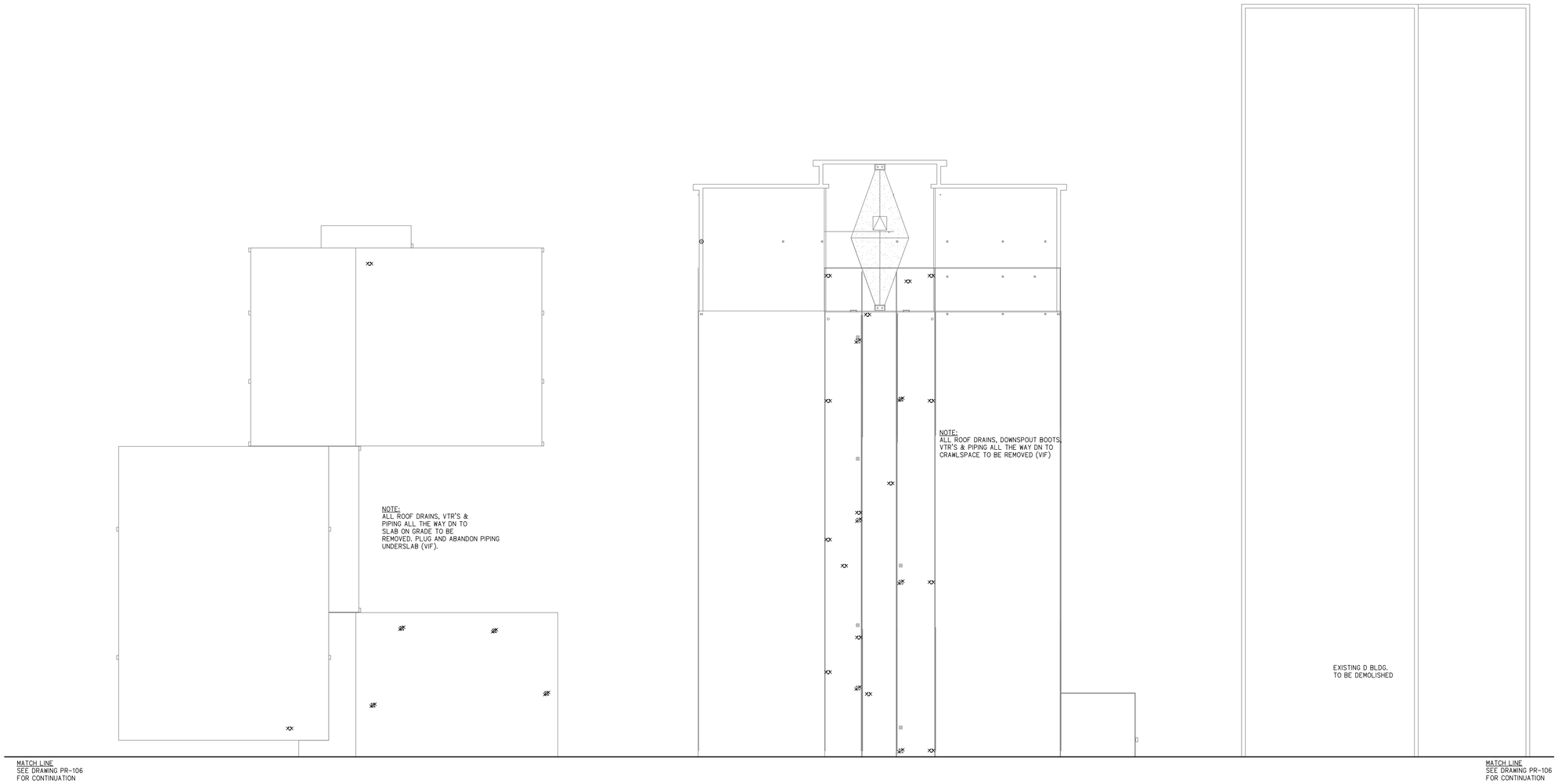

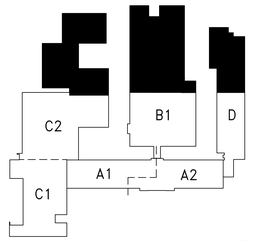

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

NOTE:

REFER TO PR-100 FOR GENERAL REMOVAL NOTES AND ADDITIONAL INFORMATION

Consultant
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Professional Seal & Signature
STATE OF CONNECTICUT
PAUL C. RIZZO
No. 22078
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ROOF REMOVALS PLAN
SOUTH – PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451SRP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. PR-107

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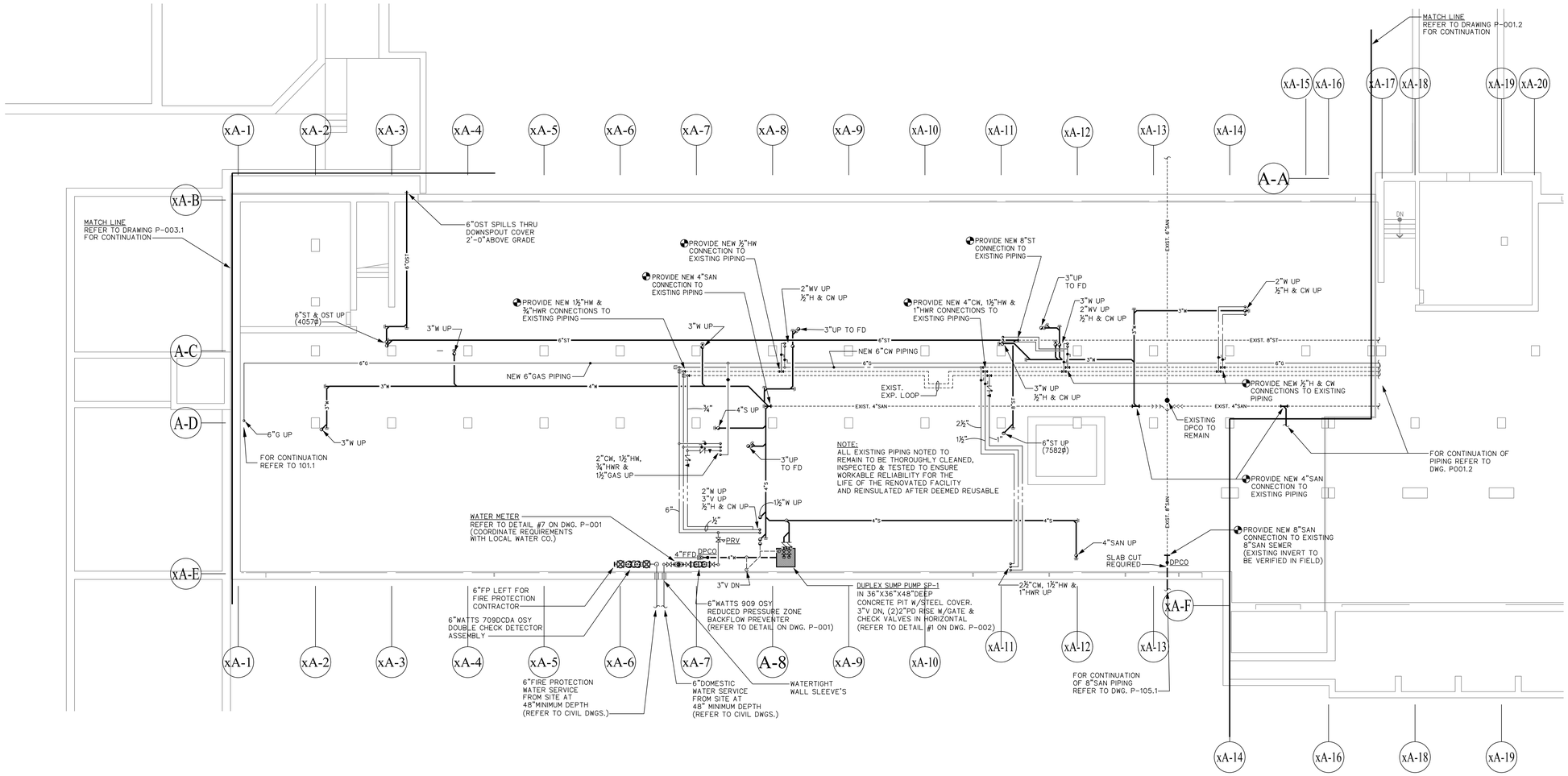

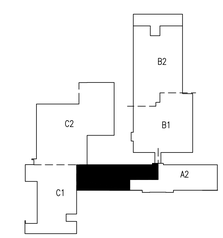

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A1 TUNNEL PLAN PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PHILIP C. SEBOR No. 22212 LICENSED PROFESSIONAL ENGINEER ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045105P	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPIC
Approved By	PCS
Drawing No.	P-001.1

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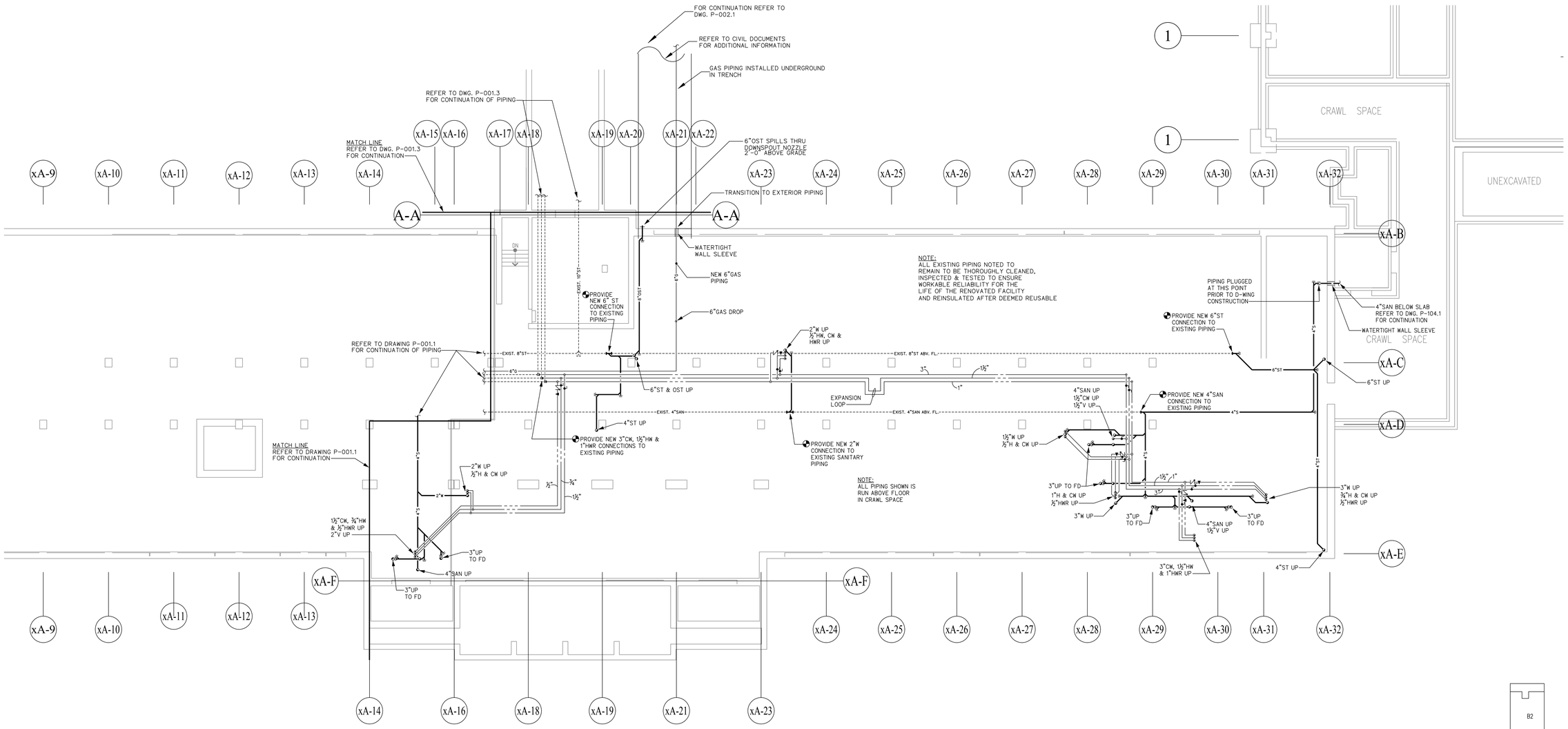
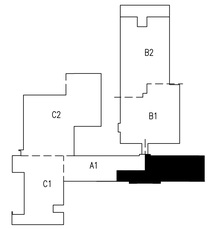




TUNNEL KEY PLAN
SCALE: NOT TO SCALE

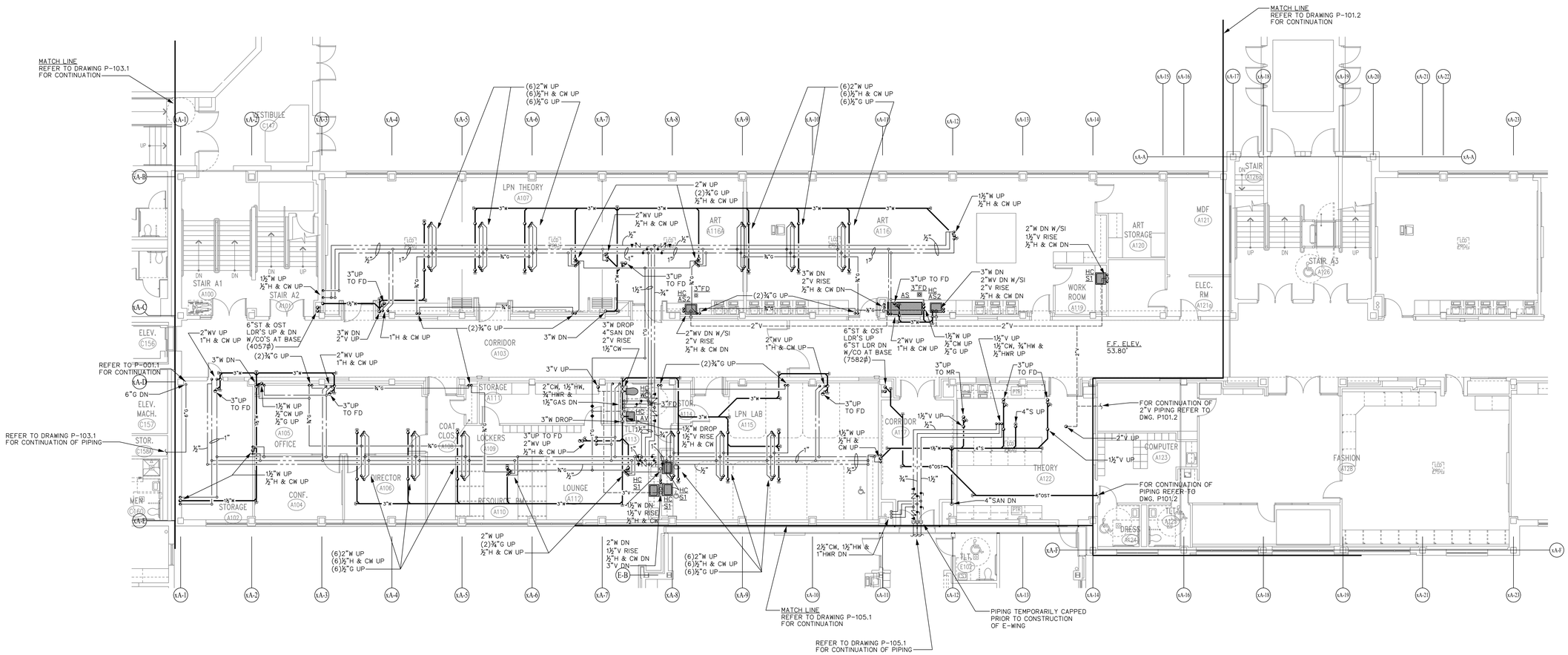
NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA A2 TUNNEL PLAN PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT PHILIP C. PETRUCCI No. 22278	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045103P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MPIC
Approved By: PCS
Drawing No. P-001.2

FILE:045101b REV:02/01/2007 17:15 FILE:045103bg REV:02/20/2008 15:15 FILE:045103P REV:06/18/12 11:02



FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA A1 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045115P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MPC
Approved By: PCS
Drawing No. P-101.1

FILE:045115p REV:06/22/06 14:01
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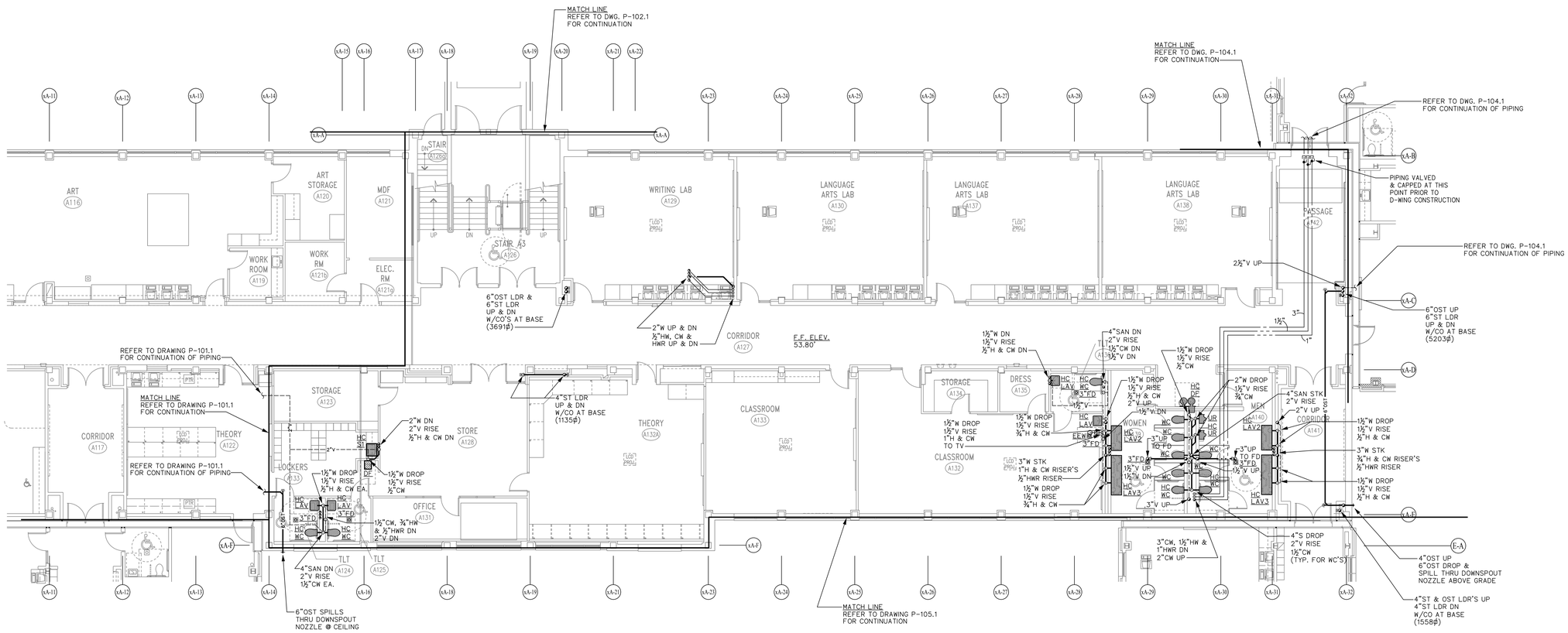

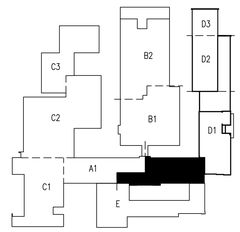

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AllisonSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538, fx: 203-866-5243	Drawing Title: AREA A2 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, BRIAN C. BIENKOWSKI, No. 20728, LICENSED PROFESSIONAL ENGINEER	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045113P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	P-101.2

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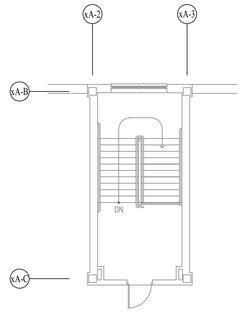

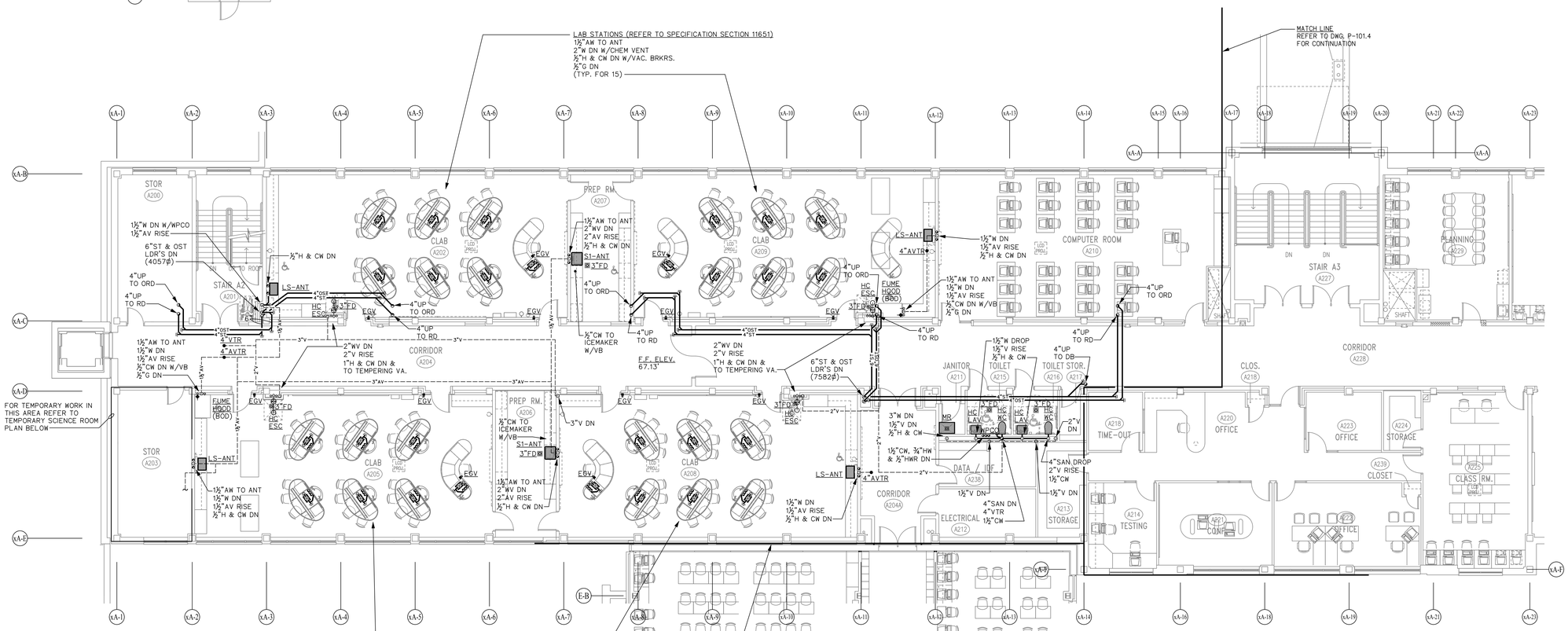

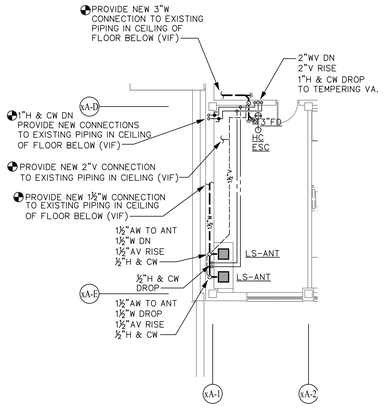

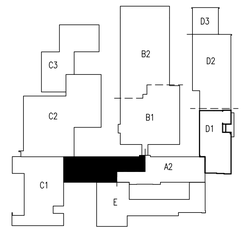

SECOND FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

RENOVATE FOR TEMPORARY SCIENCE ROOM PHASE 1.2

SCALE: 1/8"=1'-0"

CMR BID DOCUMENTS

Consultant AlbertSeboeWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A1 UPPER LEVEL PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT ALBERT C. BERTOLINI No. 22778 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
CAD No. 045125P		Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-101.3

FILE:045125P REV:06/22/06 13:24
FILE:045125P REV:04/26/2012 14:08
FILE:045125bg REV:06/18/12 10:59
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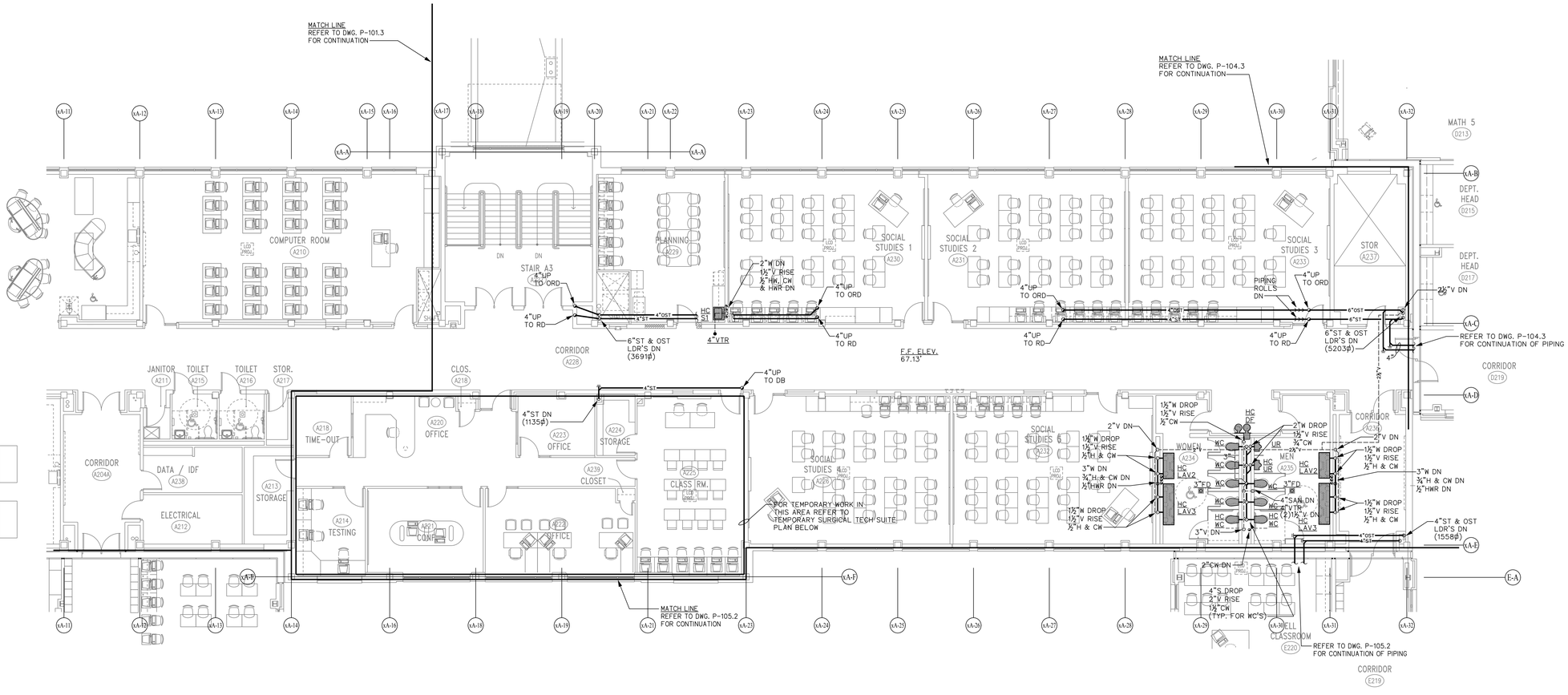
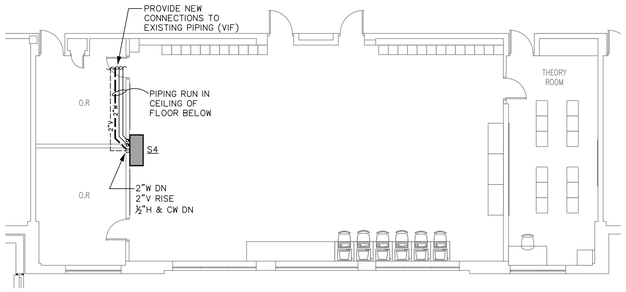
FILE:045125P
FILE:045125b





RENOVATE FOR TEMPORARY SURGICAL TECH SUITE PHASE 1.3

SCALE: 1/8"=1'-0"

NOTE: PIPING AND FIXTURES TO BE REMOVED WHEN THIS AREA IS NO LONGER USED FOR TEMPORARY PURPOSES.

SECOND FLOOR KEY PLAN

SCALE: NOT TO SCALE

NORTH

CRACKING & COMMENTS

Consultant	Drawing Title	STATE OF CONNECTICUT
AltieriSeboriWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	AREA A2 UPPER LEVEL PLUMBING	DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	REVISIONS Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
STATE OF CONNECTICUT, FILE C. BINDER, No. 22272, LICENSED PROFESSIONAL ARCHITECT ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045123P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-R1-837

Date	06-180-2082
Scale	1/8"=1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	P-101.4

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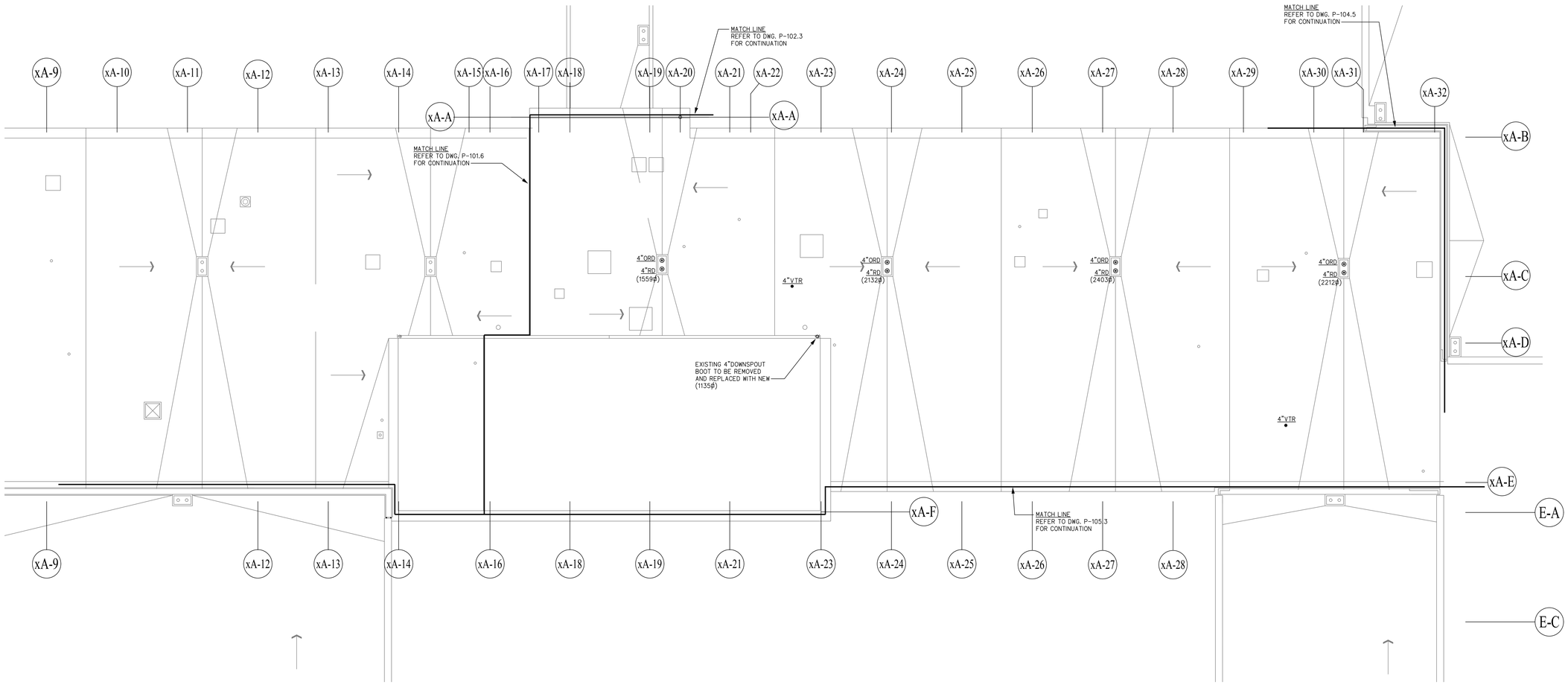
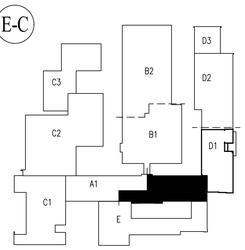
FILE:0451tb





ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant Allied SeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 ROOF PLAN PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451R3P	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	P-101.5

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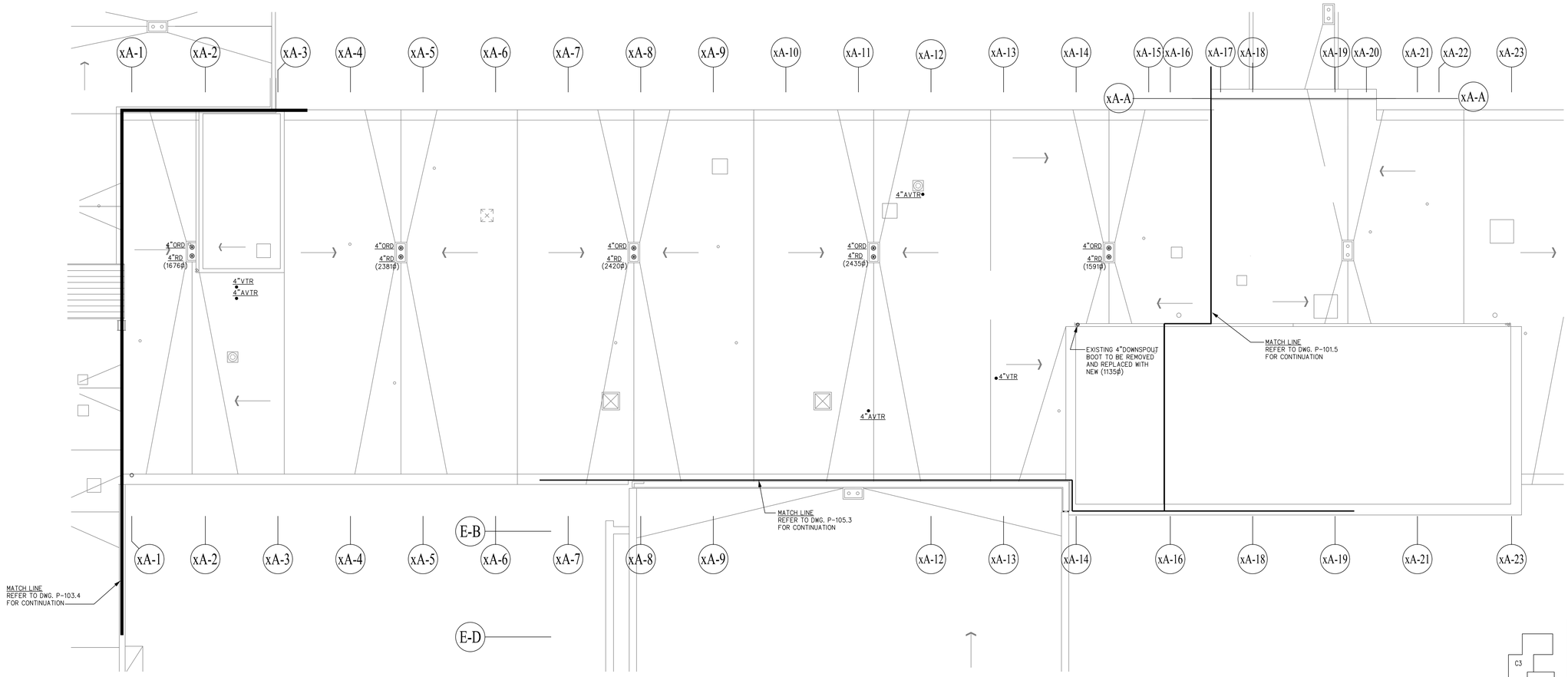
REV:MM/DD/YY HH:MM

FILE:0451r3bg



ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AlbertSeboWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title:
AREA A1 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451R5P

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date
06-18-2012

Scale
1/8"=1'-0"

Drawn By
MPic

Approved By
PCS

Drawing No.
P-101.6

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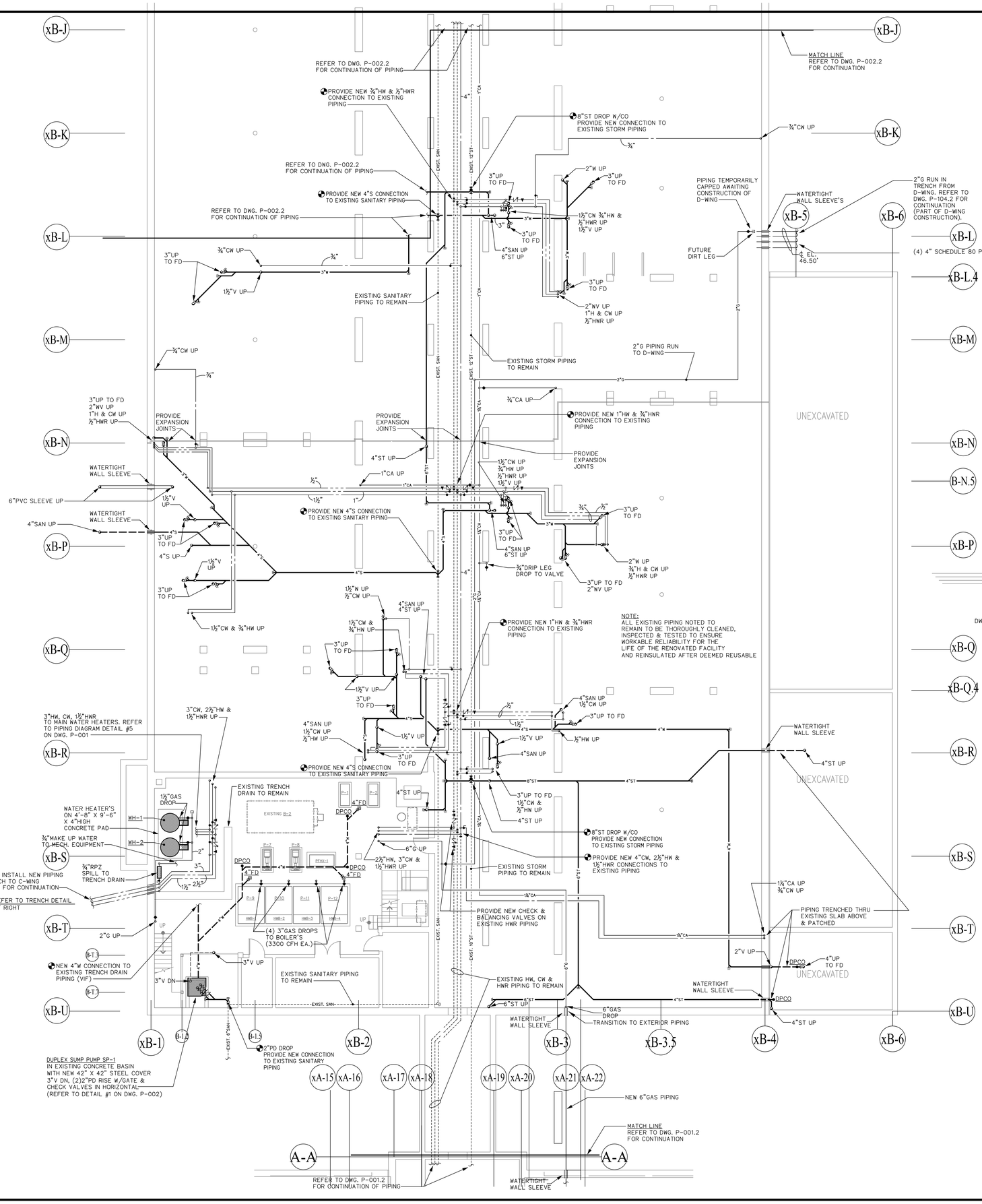
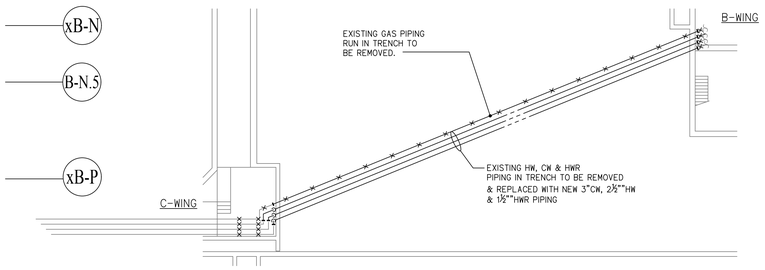
FILE:0451r5bg





DWG. P-003.1 FOR CONTINUATION

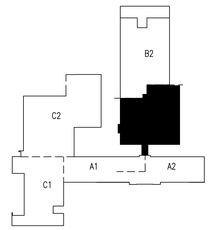
1 / P-002.1 B-C WING TRENCH PART PLAN DETAIL

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

NOTES:

1.) REFER TO PHASING DOCUMENTS FOR SCHEDULING TIMING AND COORDINATION

2.) REFER TO PHASING DOCUMENTS FOR TIMING AND COORDINATION OF NEW PIPING INSTALLED IN TRENCH BETWEEN BUILDING "B" AND "C". RECONNECT, AS REQUIRED, PIPING TO EXISTING CONNECTION DUE TO PHASING COORDINATION. DISCONNECTION AND RECONNECTION TO NEW PIPING SHALL BE PROVIDED DUE TO PROJECT PHASING AS REQUIRED.



TUNNEL KEY PLAN

SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA B1 TUNNEL PLAN PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PHILIP C. ROSSI, No. 22078, LICENSED PROFESSIONAL ENGINEER; ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045106P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. B1-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MPIC
Approved By: PCS
Drawing No.: P-002.1

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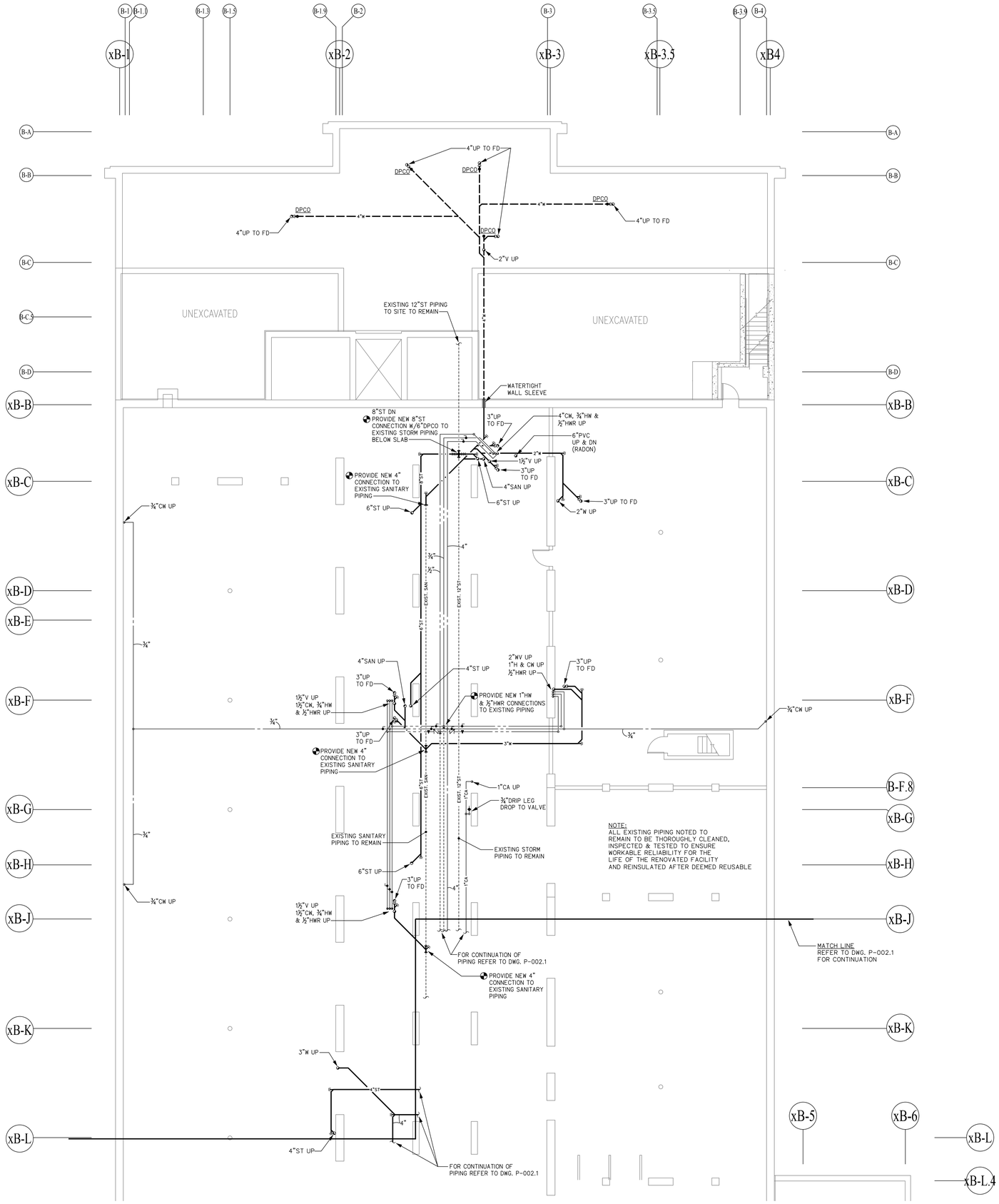

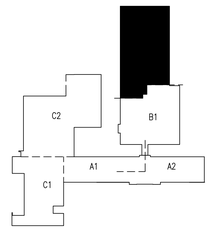

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AlfieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA B2 TUNNEL PLAN PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, ALFIERI, CHARLES, No. 22272, LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045107P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-R1-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MPIC
Approved By: PCS
Drawing No. P-002.2

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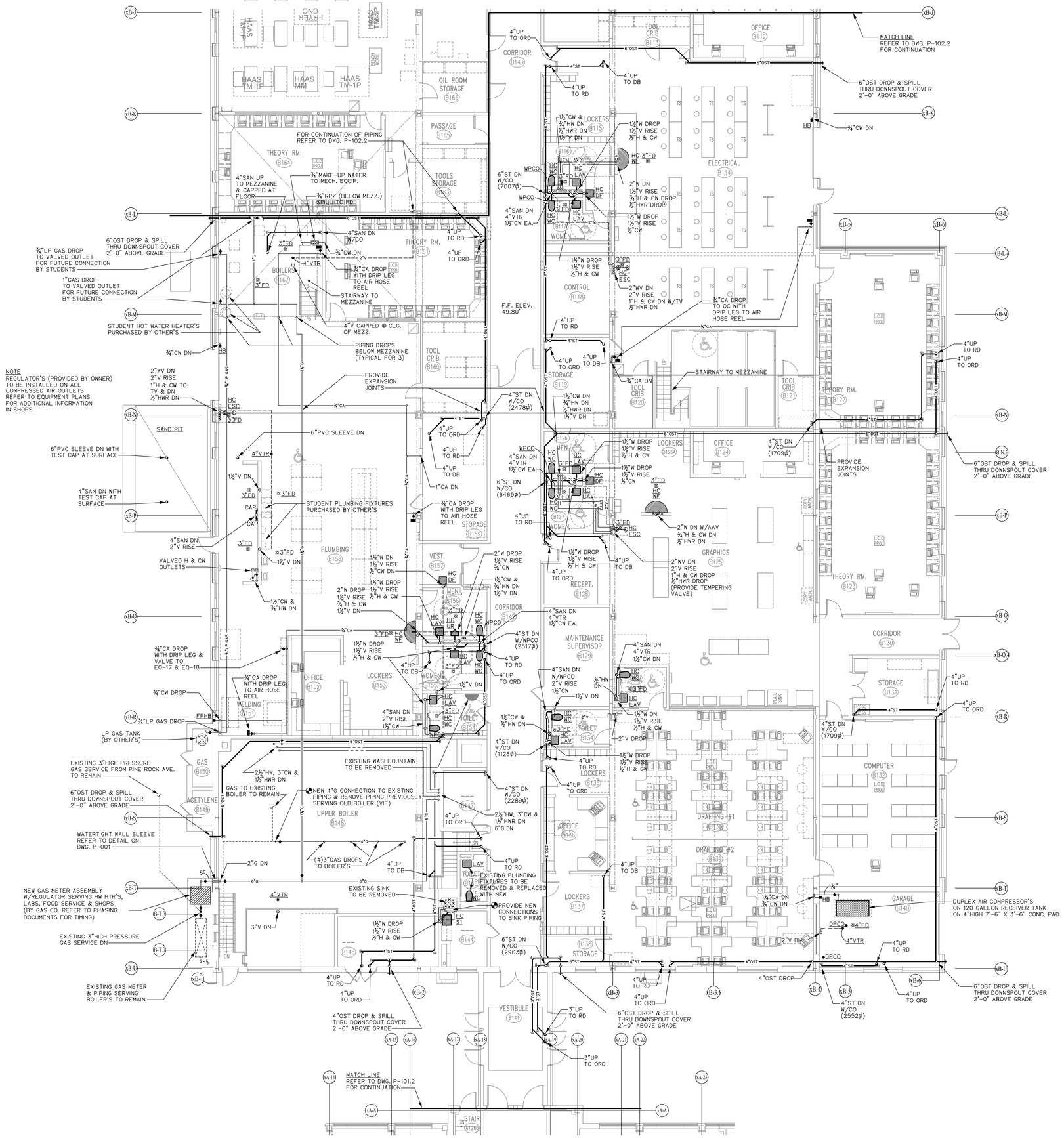

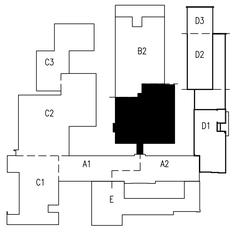

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA B1 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045116P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012
		Scale 1/8"=1'-0"
		Drawn By MPC
		Approved By PCS
		Drawing No. P-102.1

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FILE:045116P REV:04/25/2012 09:21
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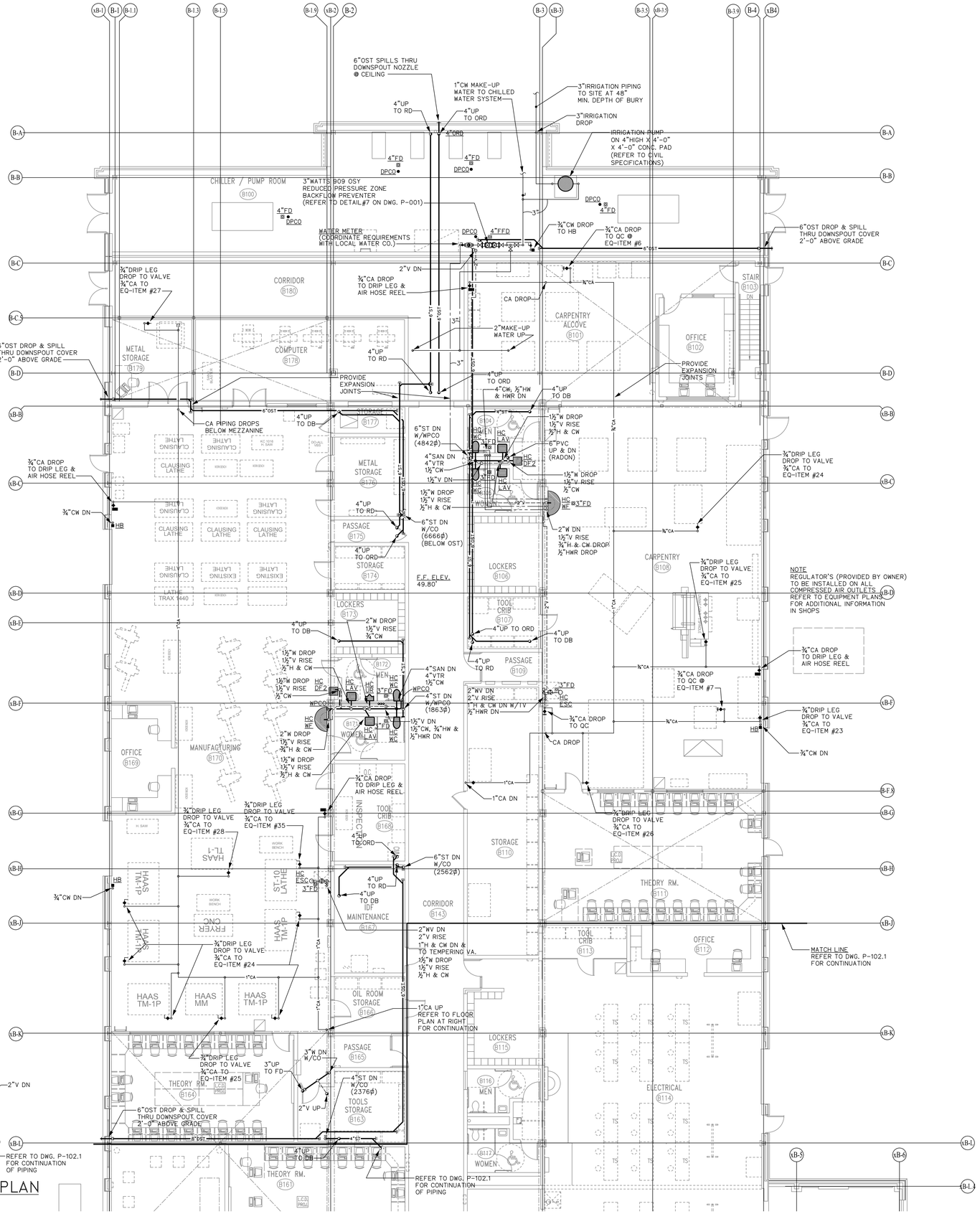
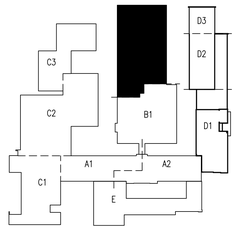
FILE:045116P REV:02/01/2007 17:15
FILE:045116P



1 EQUIPMENT PLATFORM PART PLAN
P-102.2
SCALE: ⅛"=1'-0"



FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA B2 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PHILIP C. ROSSI, No. 22077, PROFESSIONAL ENGINEER	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045117P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012 | Scale 1/8"=1'-0" | Drawn By MPic | Approved By PCS | Drawing No. P-102.2

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FILE:045117P REV:04/25/2012 09:22
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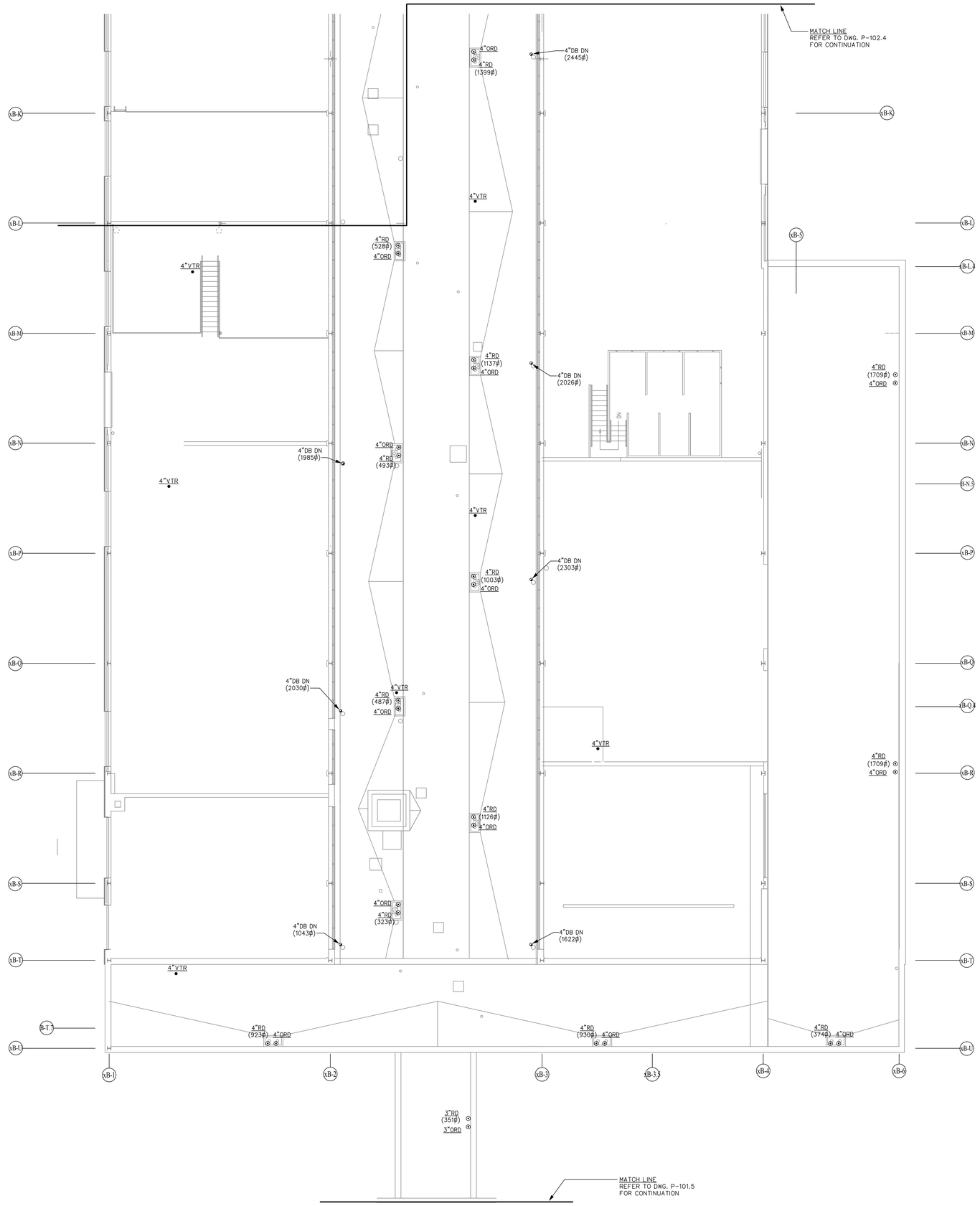

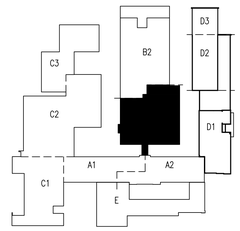

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AlbieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA B1 ROOF PLAN PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PAUL C. BIRCHER No. 22274 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451R6P	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-R1-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPlc
Approved By	PCS
Drawing No.	P-102.3

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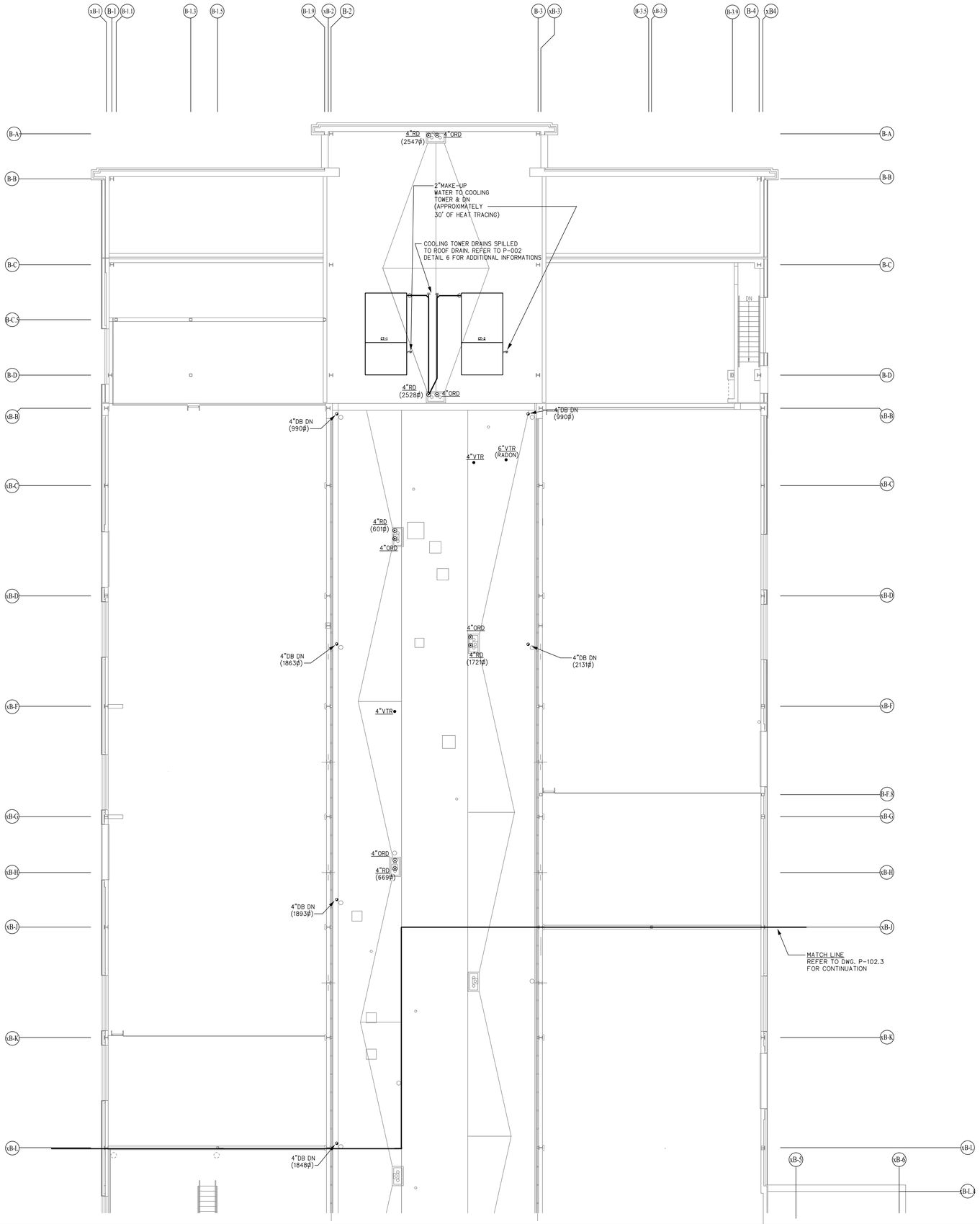

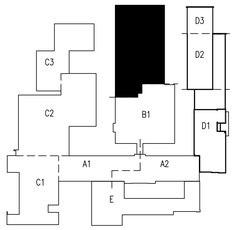

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT · MICHAEL P. ALTIERI · No. 22272 · LICENSED PROFESSIONAL ENGINEER

ORIGINAL SEAL AND
SIGNATURE IS BLUE

Drawing Title
AREA B2 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451R7P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-102.4

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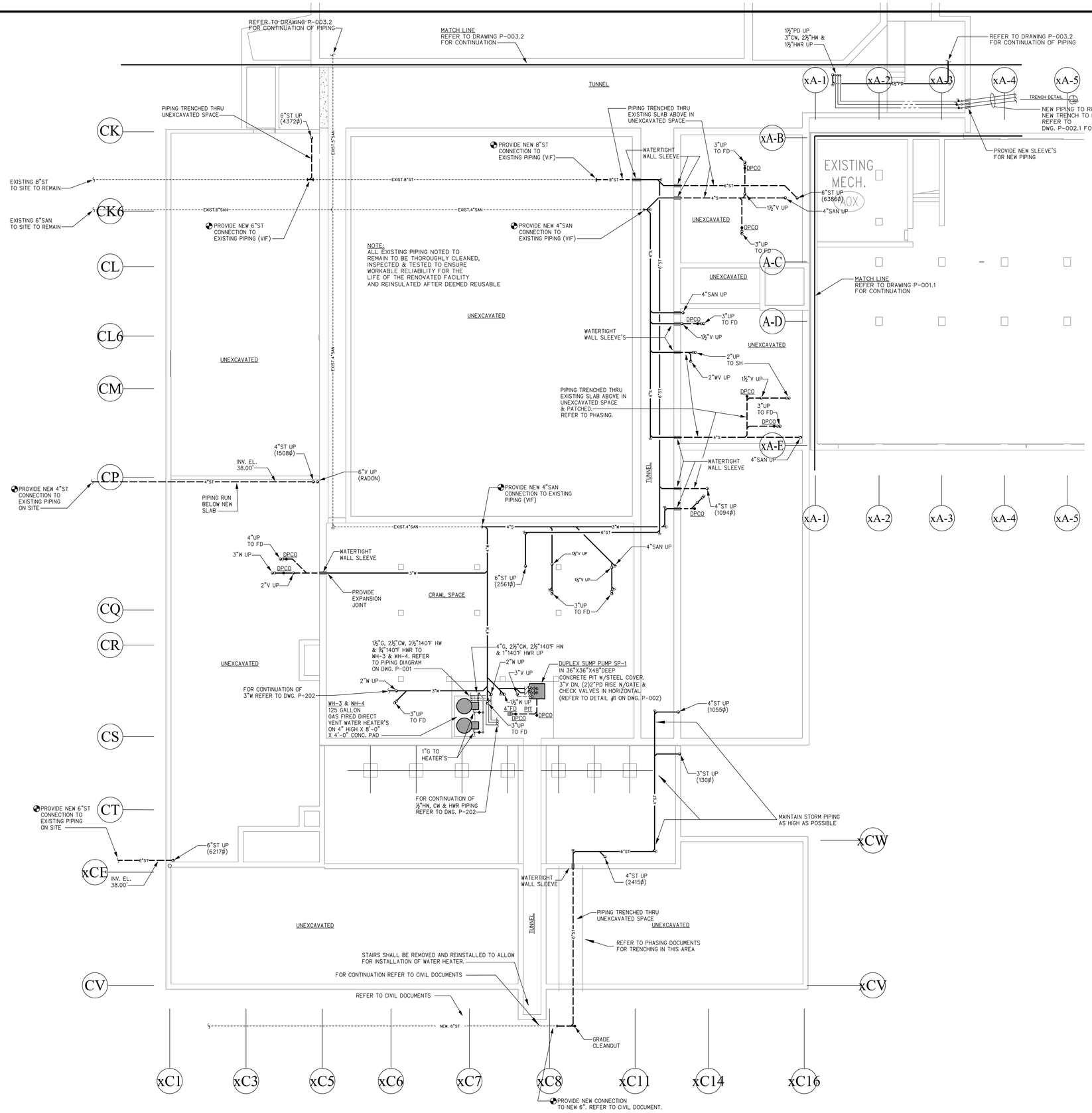
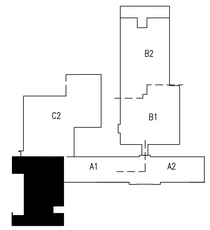


1 INSTALLATION OF PIPING IN AREAS REQUIRING EXISTING FLOOR SLAB CUTS AND EXCAVATION SHALL BE SCHEDULED AND COORDINATED WITH THE PHASING DOCUMENTS.



TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTE:

REFER TO PHASING DOCUMENTS FOR TIMING AND COORDINATION OF NEW PIPING INSTALLED IN TRENCH BETWEEN BUILDING "B" AND "C". RECONNECT, AS REQUIRED, PIPING TO EXISTING CONNECTION DUE TO PHASING COORDINATION. DISCONNECTION AND RECONNECTION TO NEW PIPING SHALL BE PROVIDED DUE TO PROJECT PHASING AS REQUIRED.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22217

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C1 TUNNEL PLAN PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 045108P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPIC
Approved By PCS
Drawing No. P-003.1

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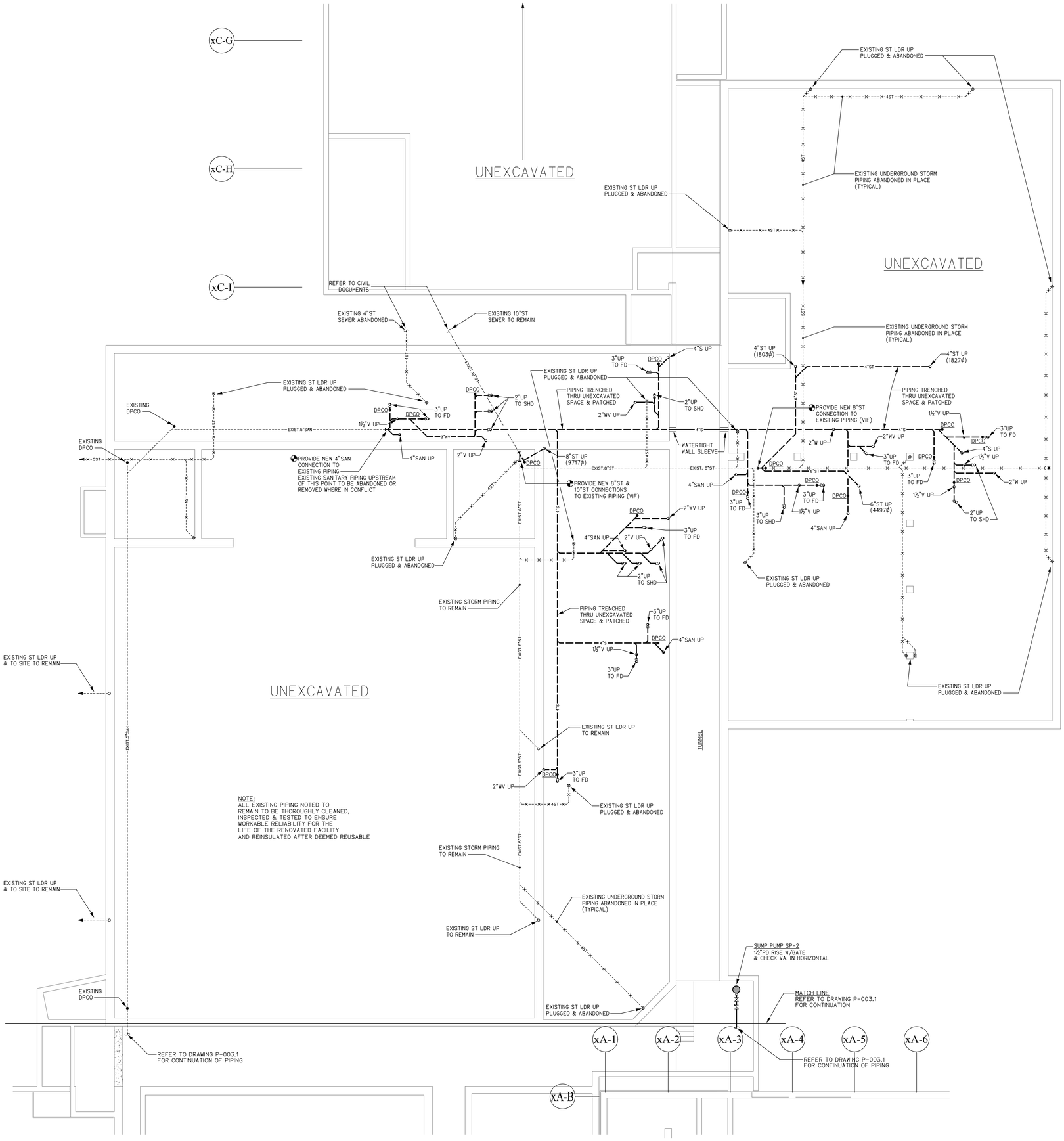

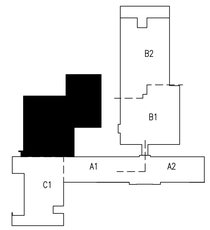

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA C2 TUNNEL PLAN PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PAUL C. SEBOR No. 20724 LICENSED PROFESSIONAL ENGINEER ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045109P	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPIC
Approved By	PCS
Drawing No.	P-003.2

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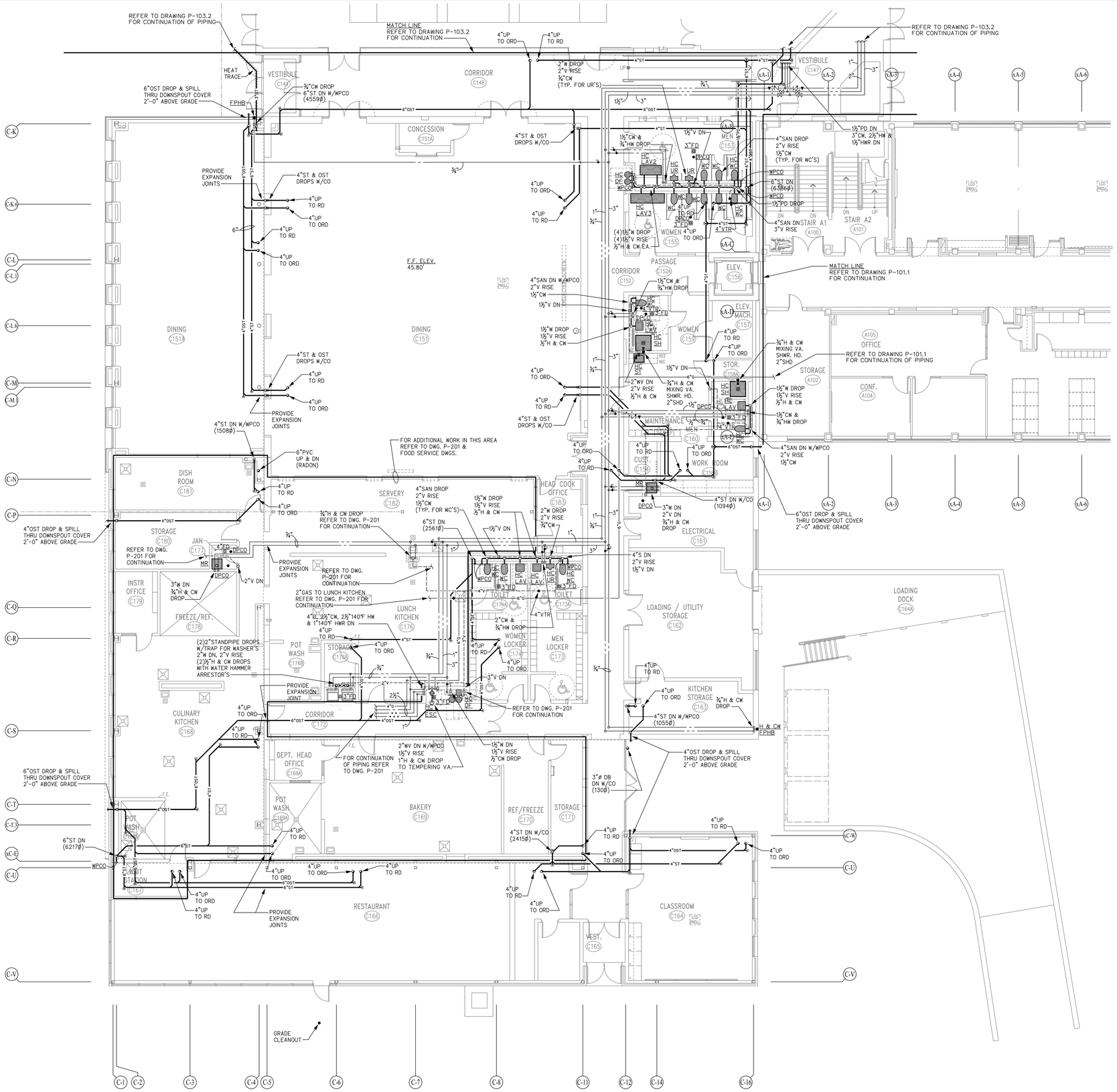

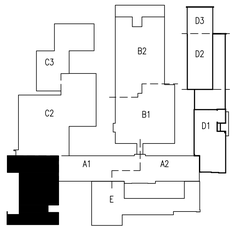

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA C1 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PAUL C. STOLL, No. 20734, LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045118P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. B1-R7-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MFC
Approved By	PCS
Drawing No.	P-103.1

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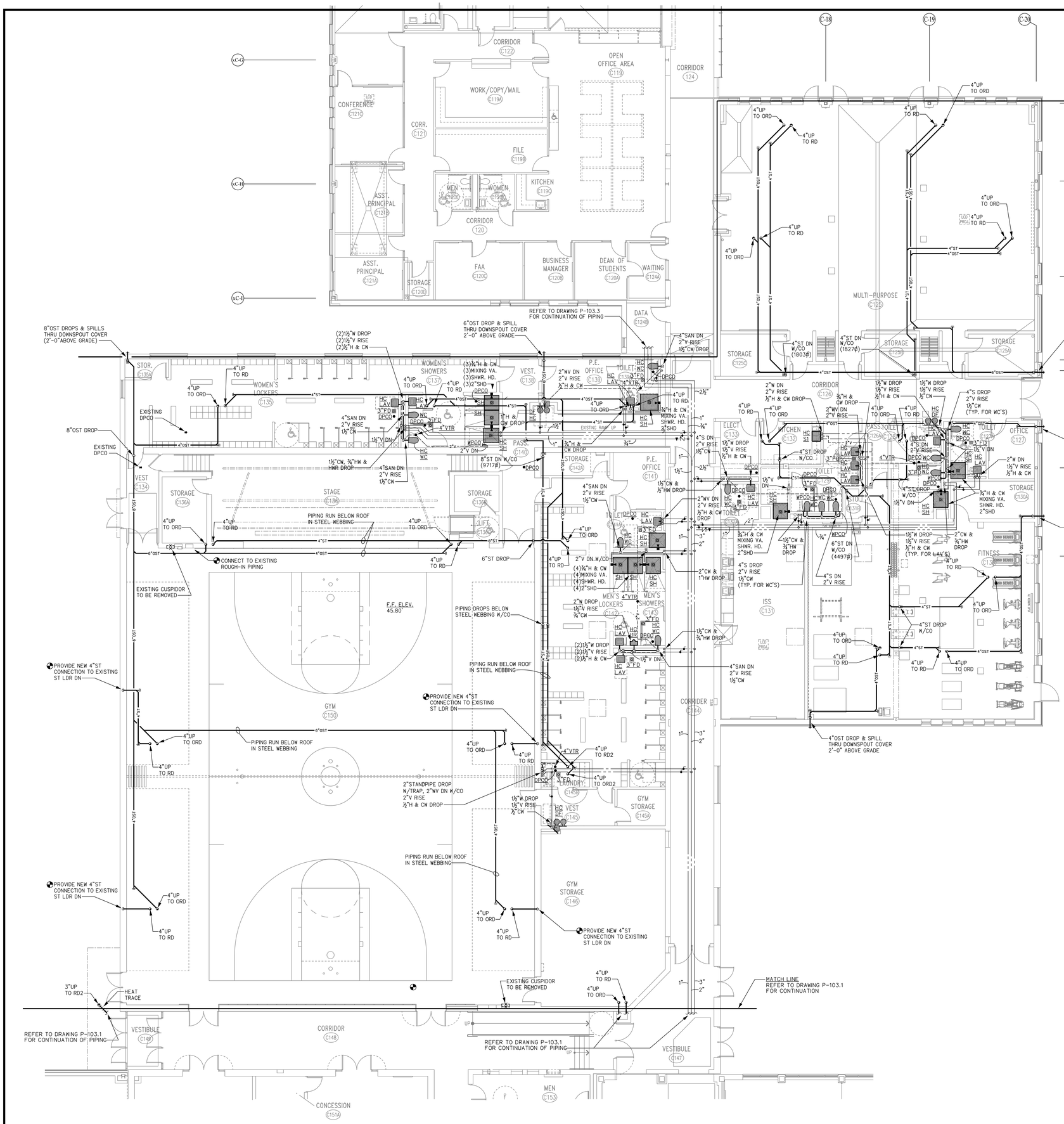

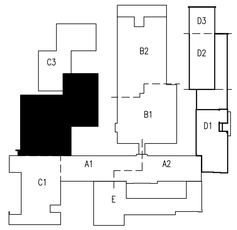

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 MAIN LEVEL PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 045119P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-037

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-103.2

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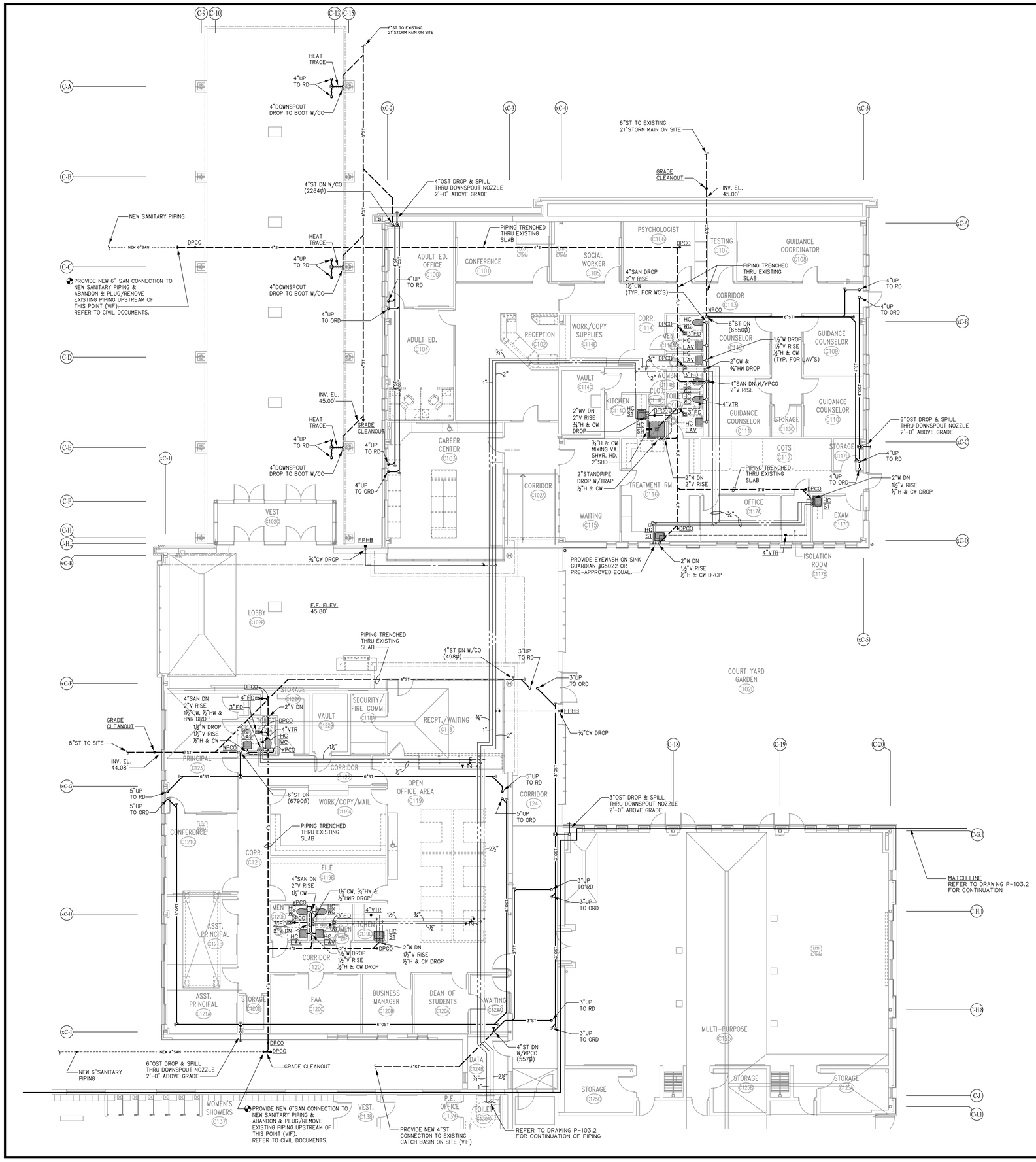

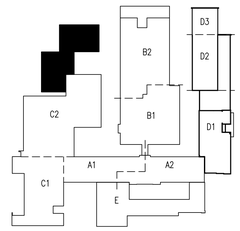

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538, fx: 203-866-5243	Drawing Title: AREA C3 MAIN LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PROFESSIONAL ENGINEER, No. 22018, ALAN D. SEBOR	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045110P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MFic
Approved By	PCS
Drawing No.	P-103.3

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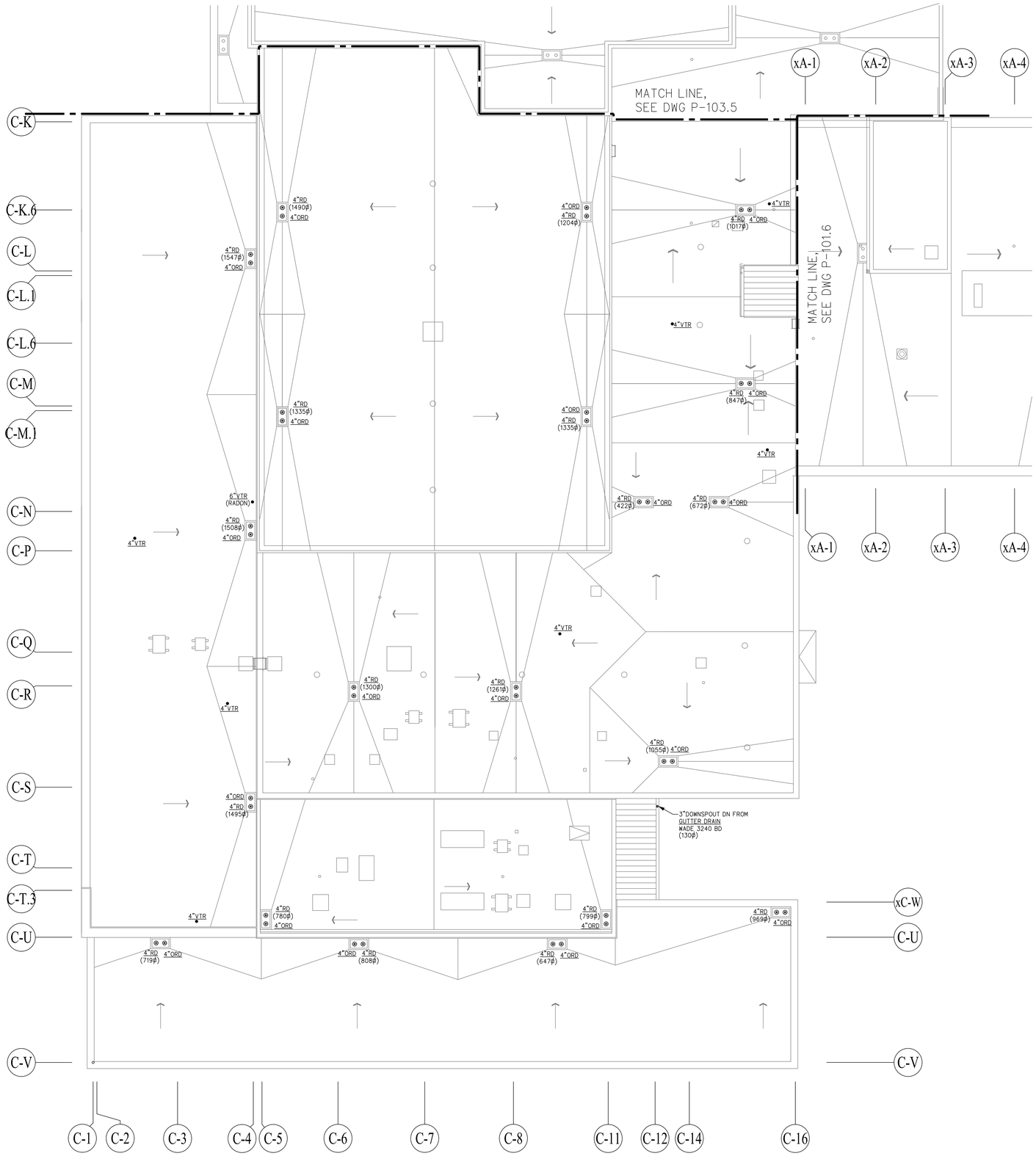

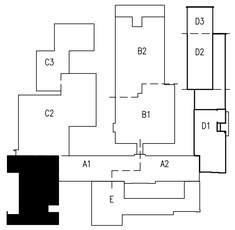

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeboriWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C1 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451RBP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-103.4

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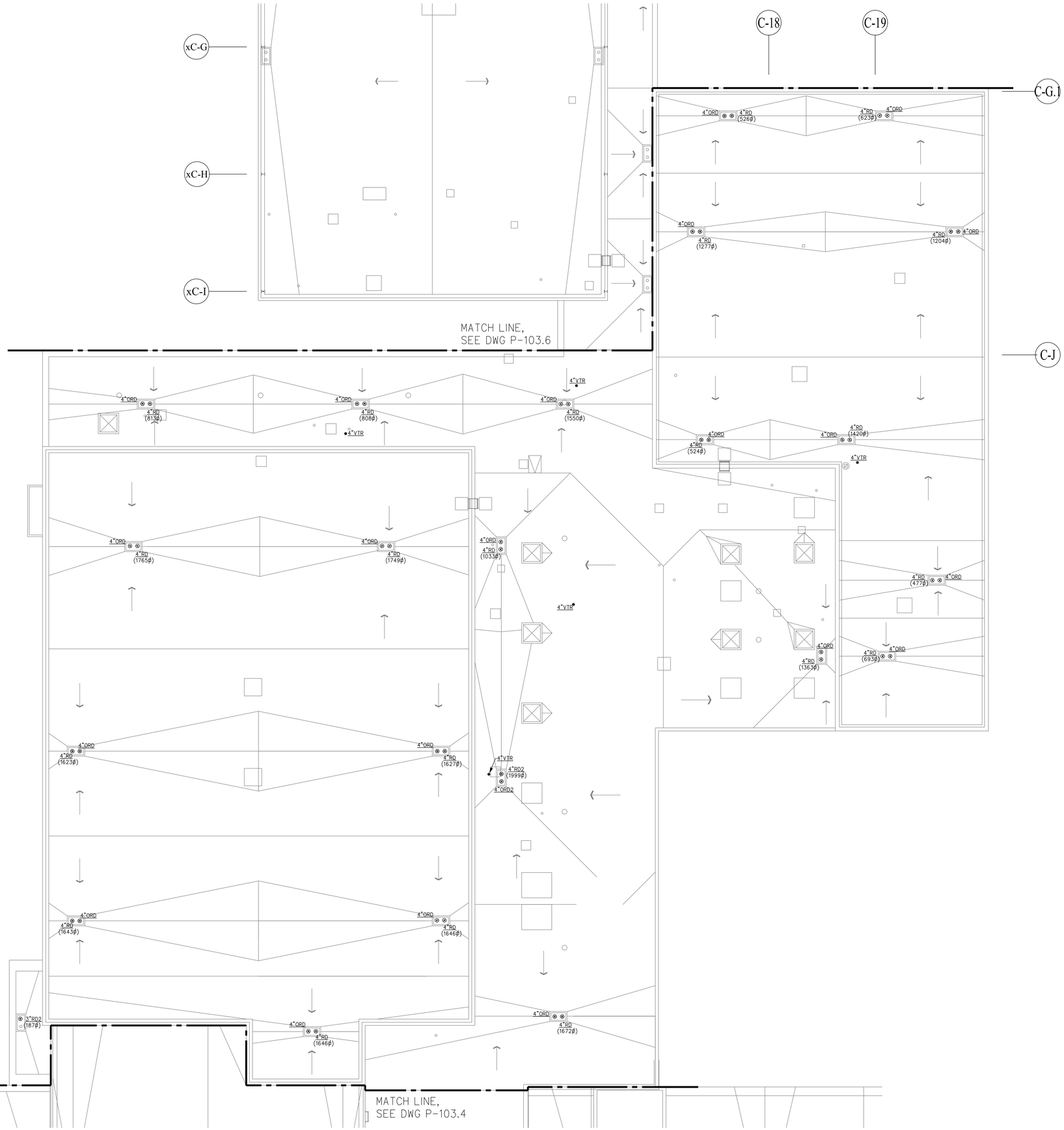

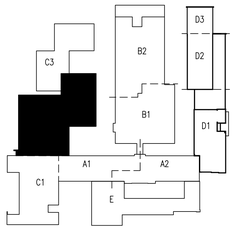

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 22778

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451R9P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date
06-18-2012

Scale
1/8"=1'-0"

Drawn By
MPic

Approved By
PCS

Drawing No.
P-103.5

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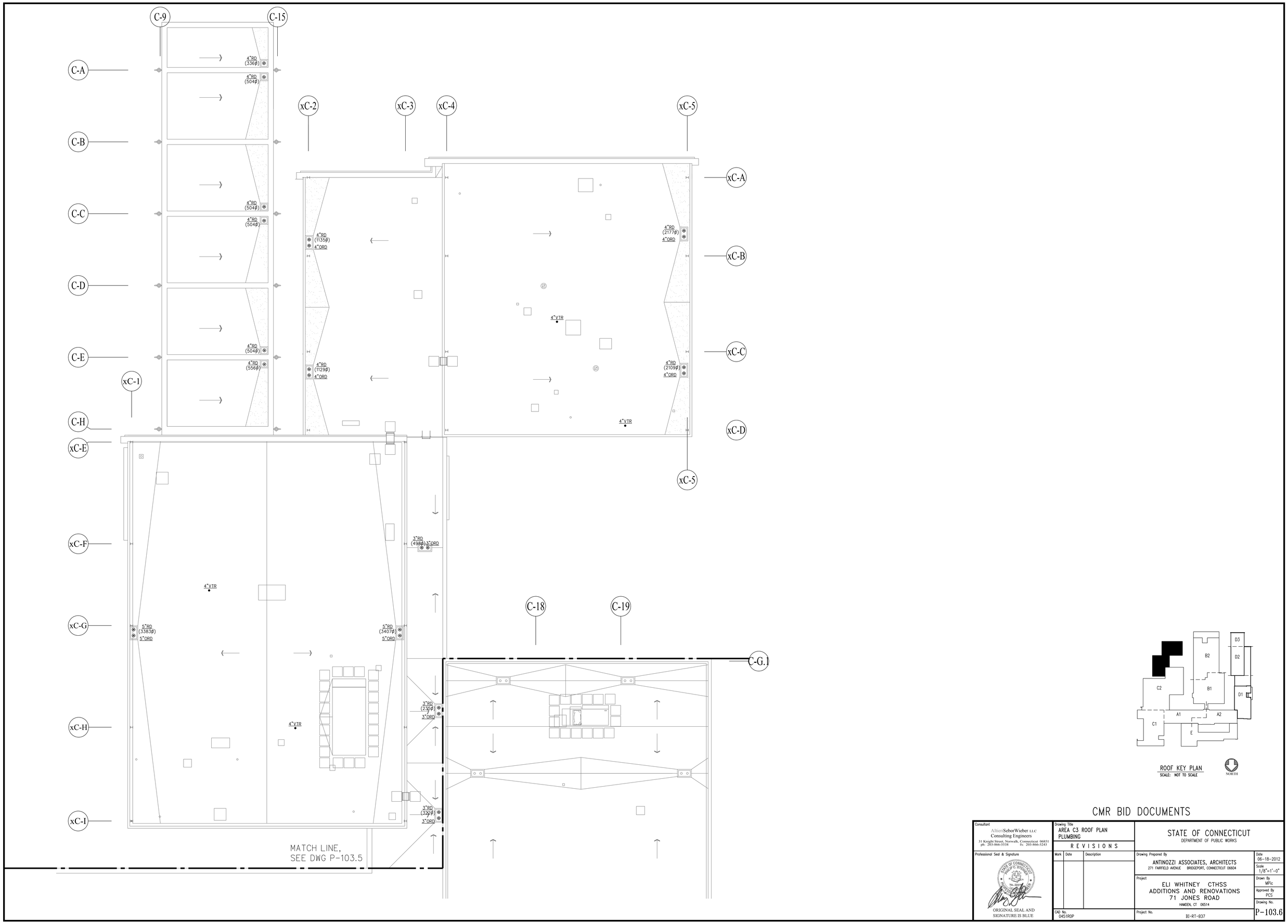

CMR BID DOCUMENTS

Consultant
AlbertSeboeWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C3 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451ROP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-103.6

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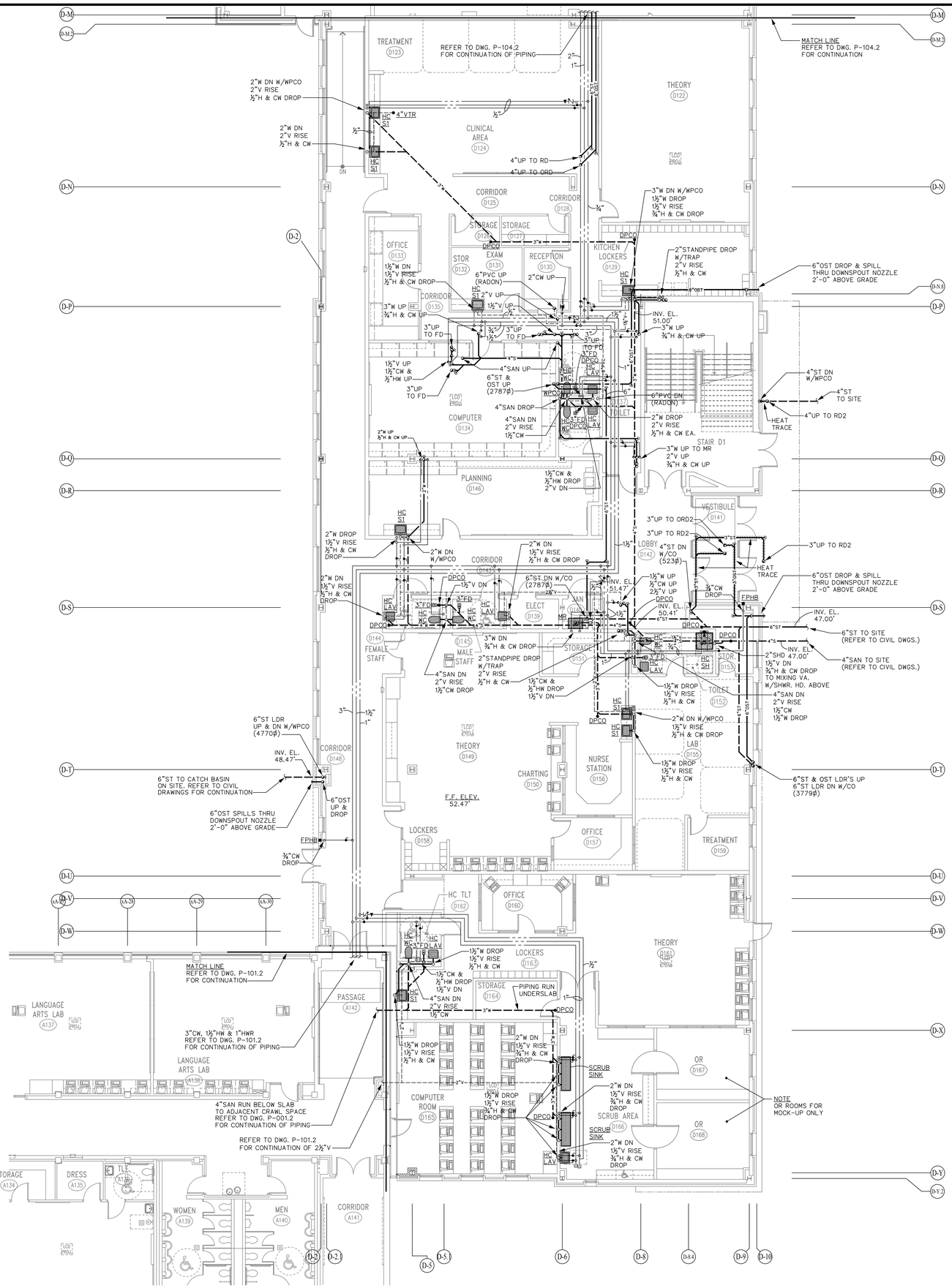

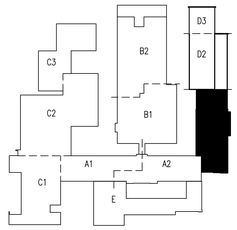

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeboriWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 MAIN LEVEL PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 045112P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-037

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPlc
Approved By PCS
Drawing No. P-104.1

FILE:045112P REV:06/22/06 16:45
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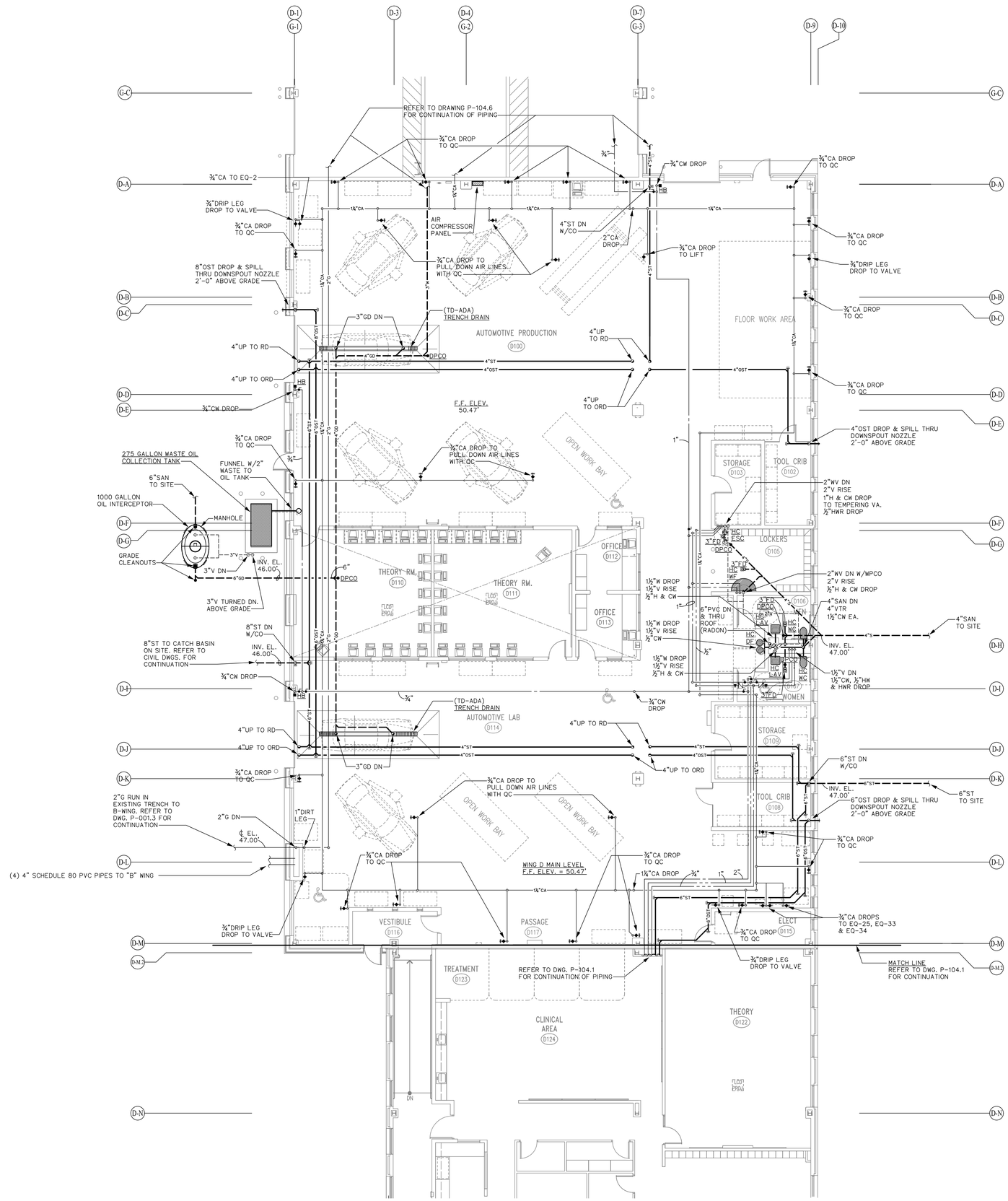
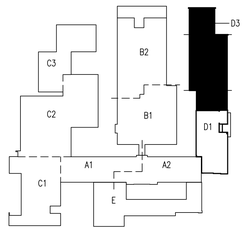


NOTE
REGULATOR'S (PROVIDED BY OWNER) TO BE INSTALLED ON ALL COMPRESSED AIR OUTLETS REFER TO EQUIPMENT PLANS FOR ADDITIONAL INFORMATION IN SHOPS



FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AlbertSeboWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D2 MAIN LEVEL
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 045111P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-104.2

FILE:045111P REV:06/22/06 11:31
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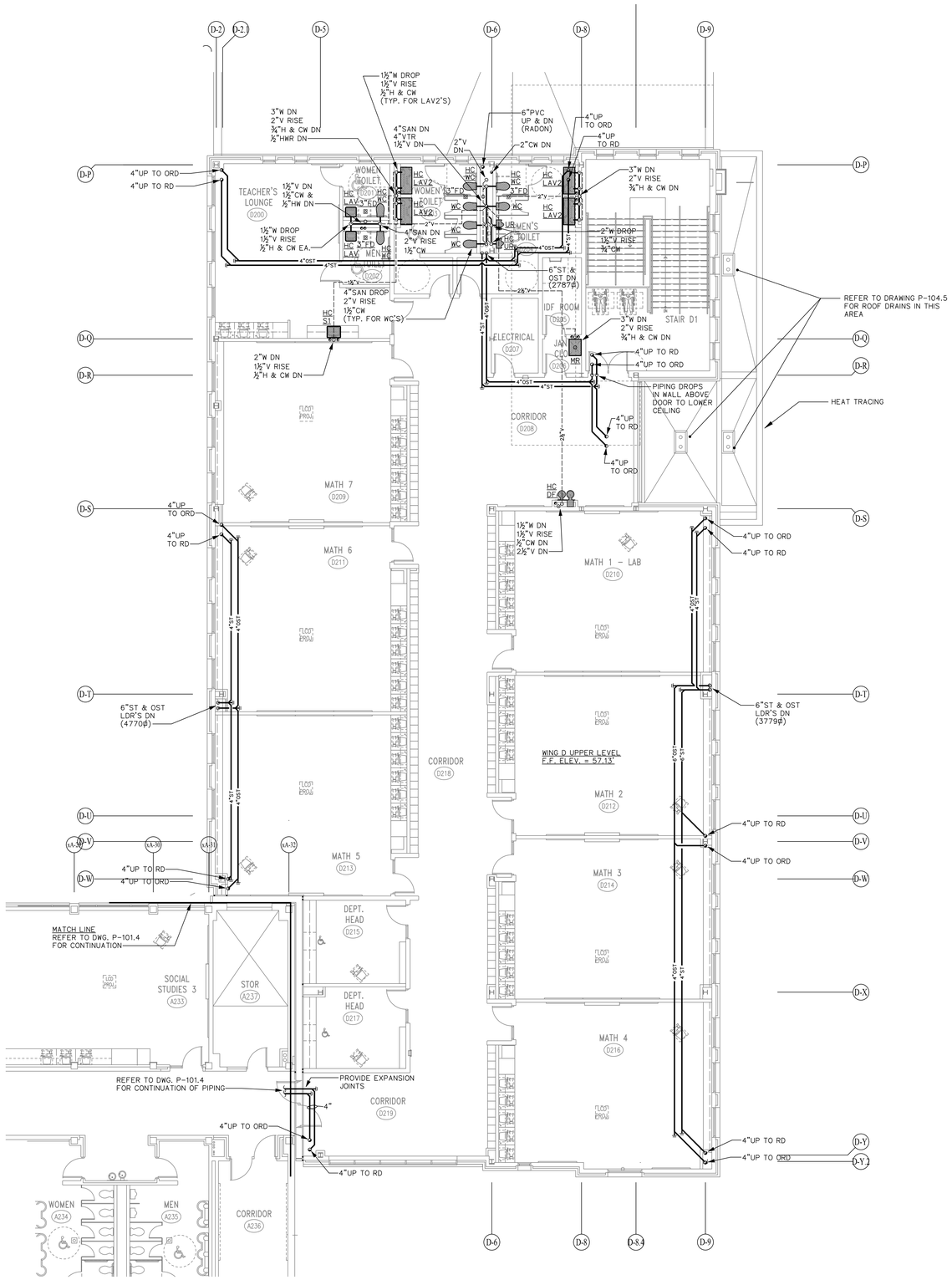

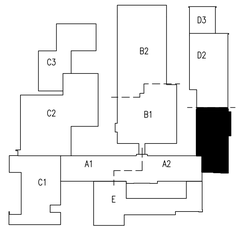

SECOND FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title BLDG D UPPER LEVEL PLUMBING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22077 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045122P	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MPic
Approved By	PCS
Drawing No.	P-104.3

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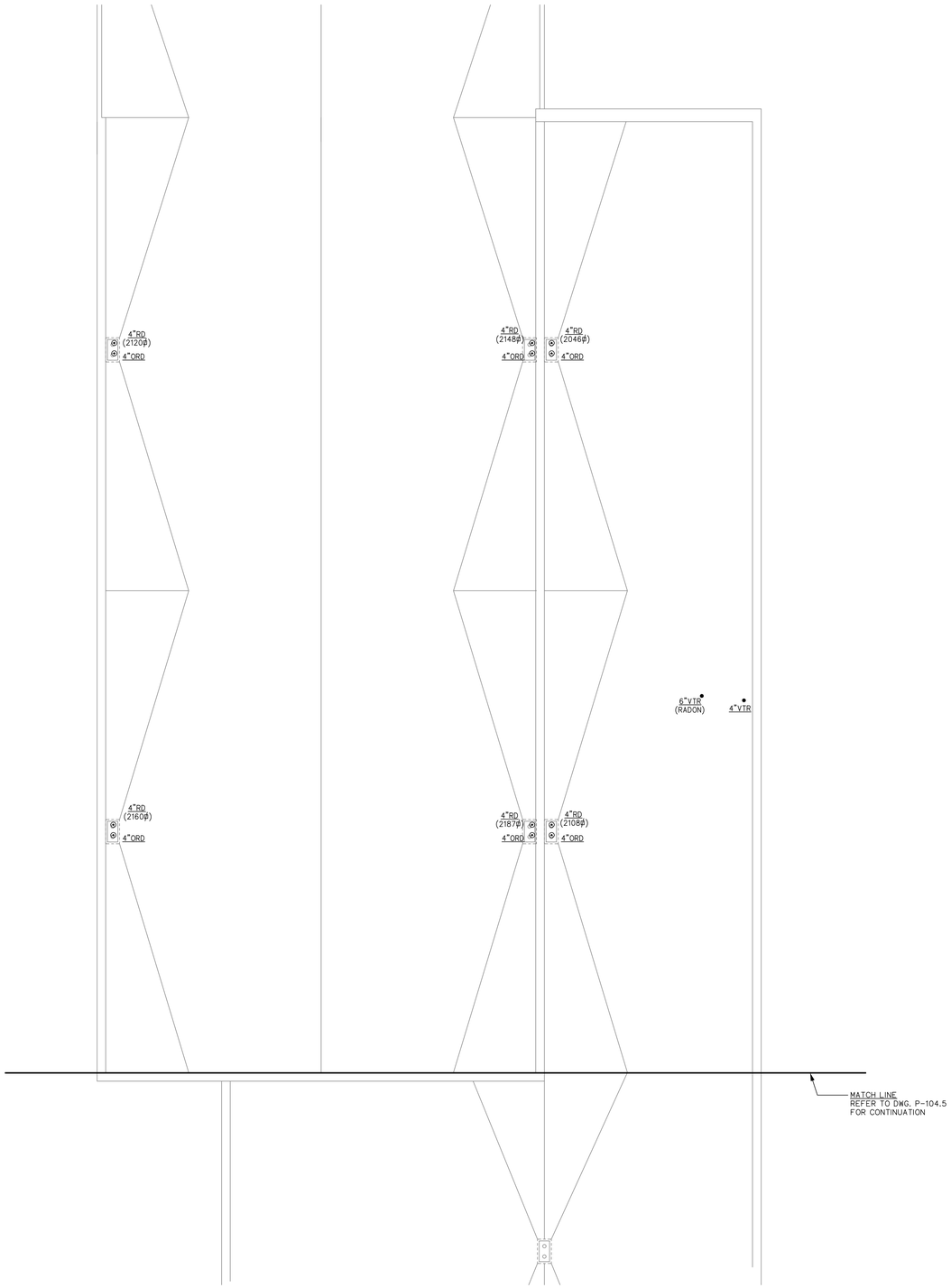

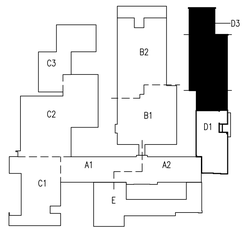

ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT · PHILIP C. ETTI · No. 22777 · PROFESSIONAL ENGINEER

ORIGINAL SEAL AND
SIGNATURE IS BLUE

Drawing Title
AREA D2 ROOF PLAN
PLUMBING

REVISIONS

Mark	Date	Description

CAD No.
0451R1P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date
06-18-2012

Scale
1/8"=1'-0"

Drawn By
MPic

Approved By
PCS

Drawing No.
P-104.4

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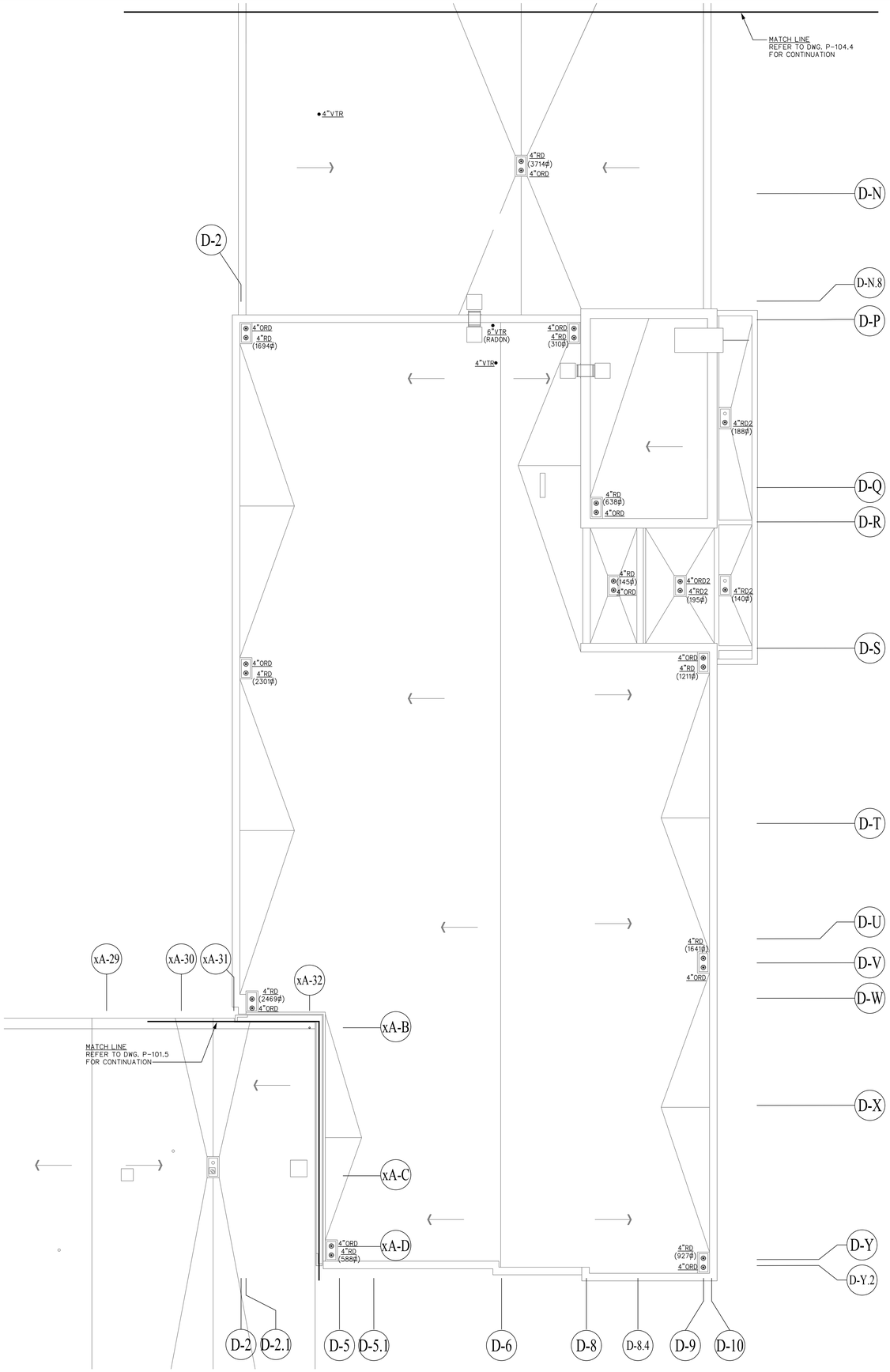

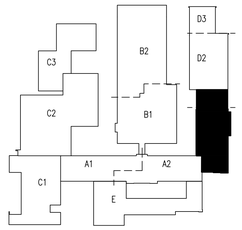

SECOND FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant	Drawing Title	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS	
AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	AREA D1 ROOF PLAN PLUMBING		
	REVISIONS		
Professional Seal & Signature	Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604	Date 06-18-2012
STATE OF CONNECTICUT PUBLIC WORKS ELI O. WHITNEY No. 22127 LICENSED ARCHITECT			Scale 1/8"=1'-0"
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514	Drawn By MFic
			Approved By PCS
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 0451R2P	Project No. BI-RT-837	Drawing No. P-104.5

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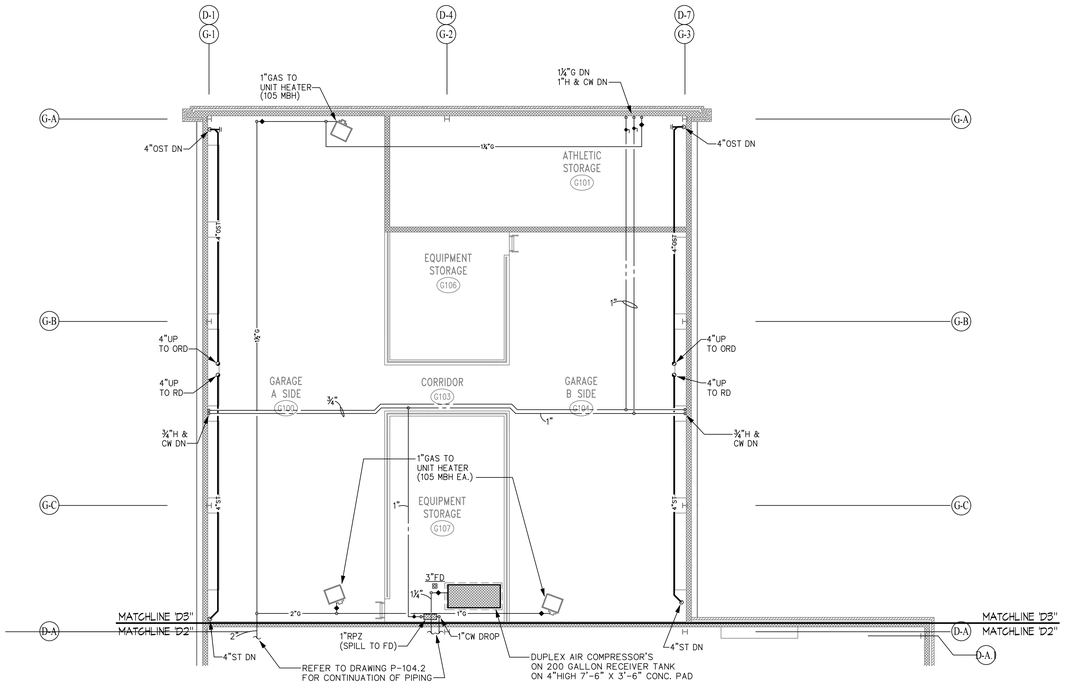
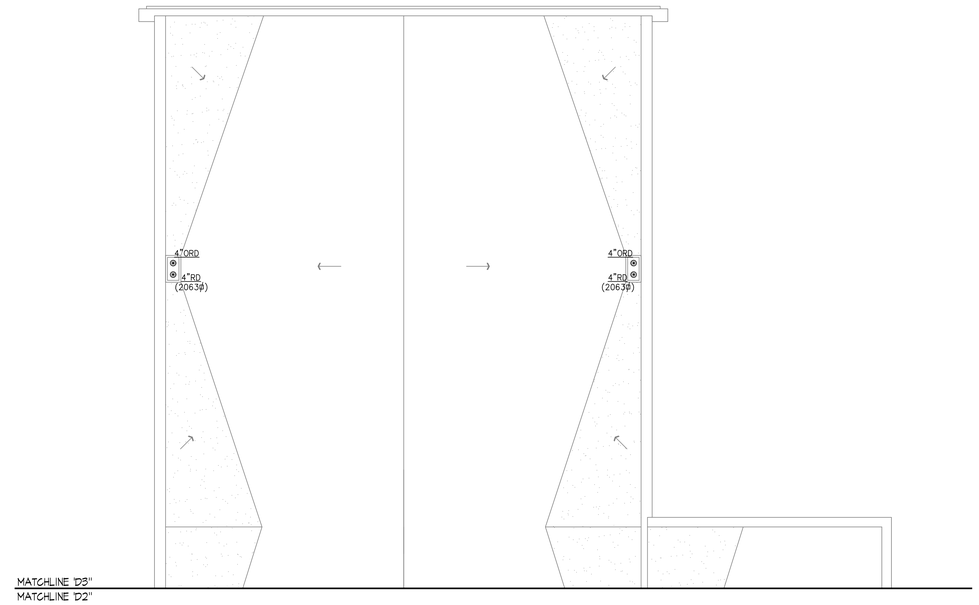


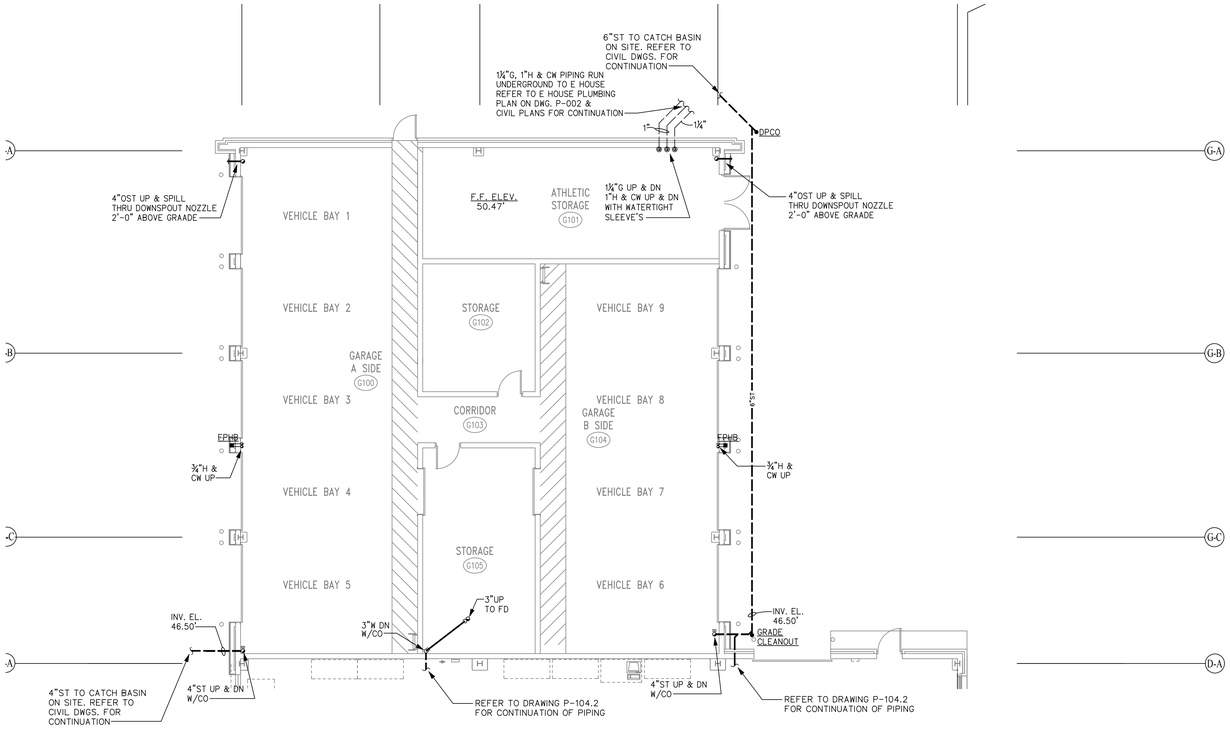
2 "D3" UPPER LEVEL PLAN

SCALE: 1/8" = 1'-0"



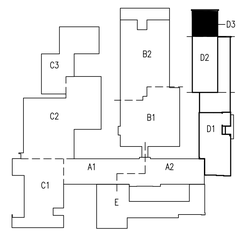
3 "D3" ROOF PLAN

SCALE: 1/8" = 1'-0"



1 "D3" MAIN LEVEL PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22077

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D3 FLOOR PLANS
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451SGP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-037

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By ASW
Approved By PCS
Drawing No. P-104.6

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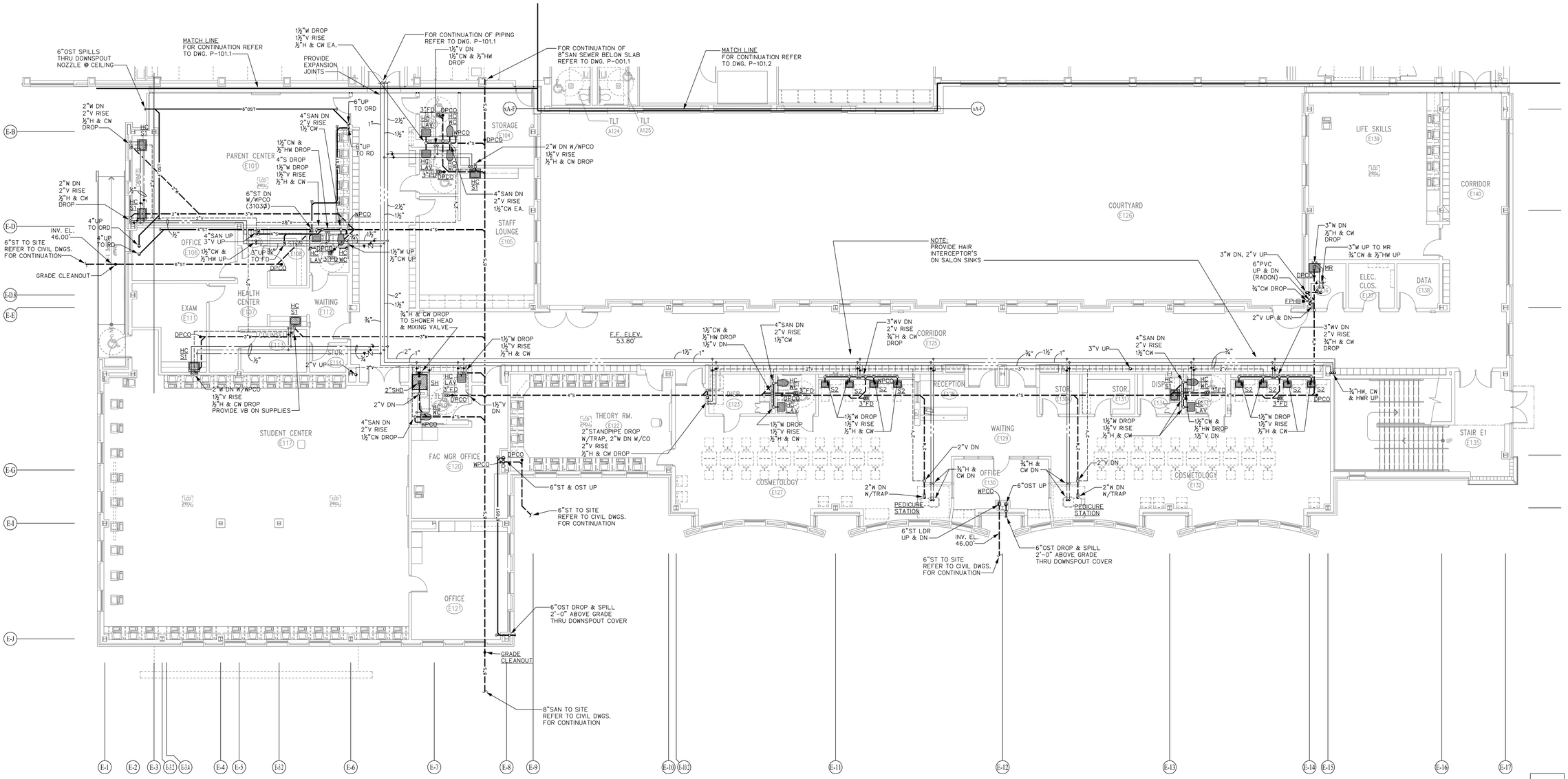

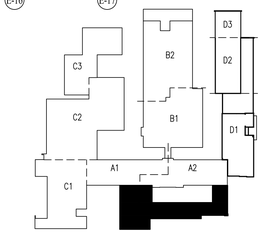

FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature
STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22018
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E MAIN LEVEL PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 045114P

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-105.1

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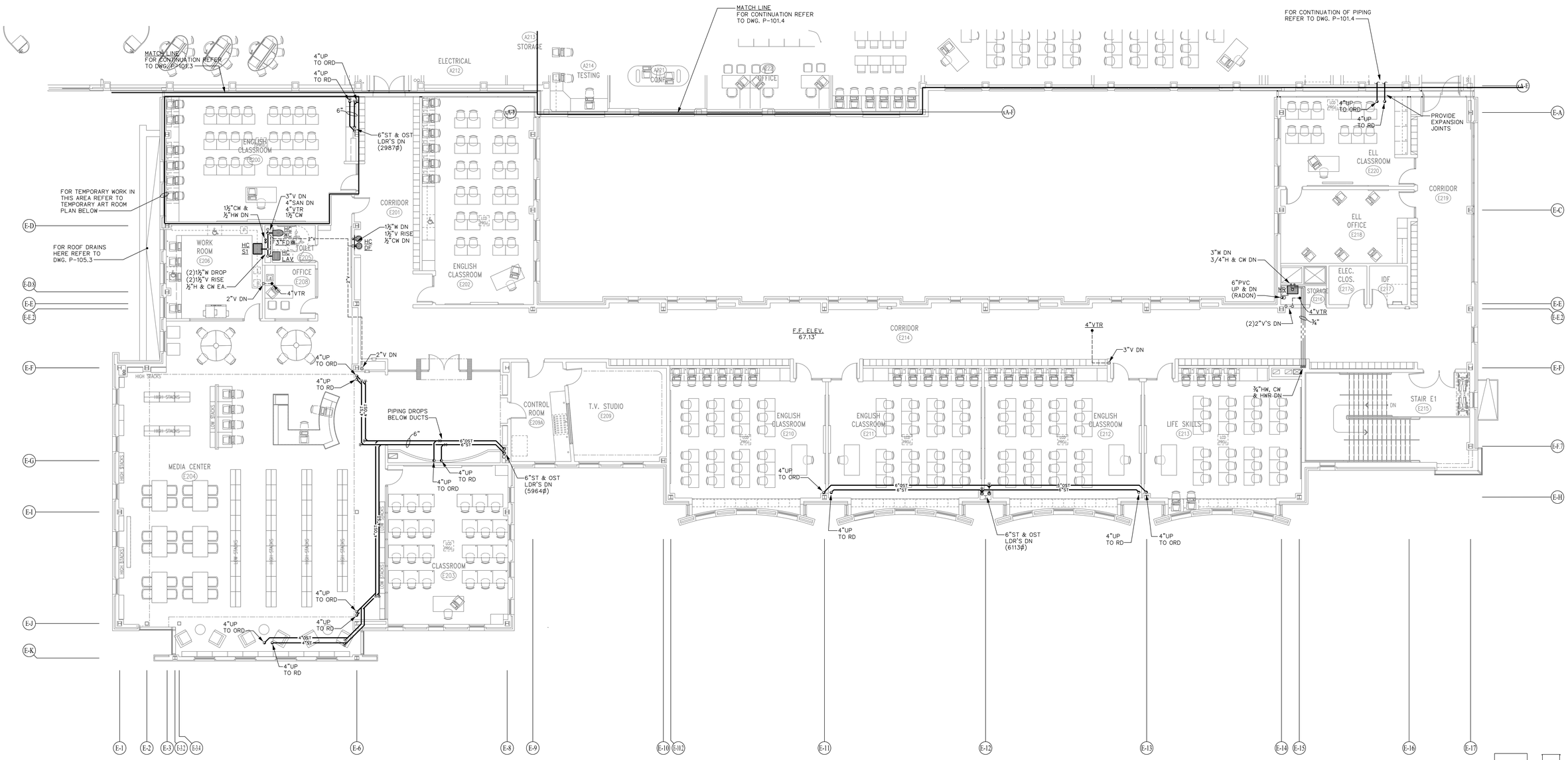
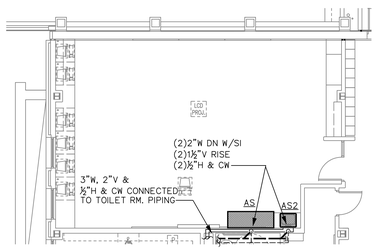
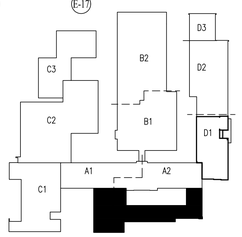




RENOVATE FOR TEMPORARY ART ROOM PHASE 1.3

SCALE: 1/8"=1'-0"



SECOND FLOOR KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSebor Wieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA E UPPER LEVEL PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045124P	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-105.2

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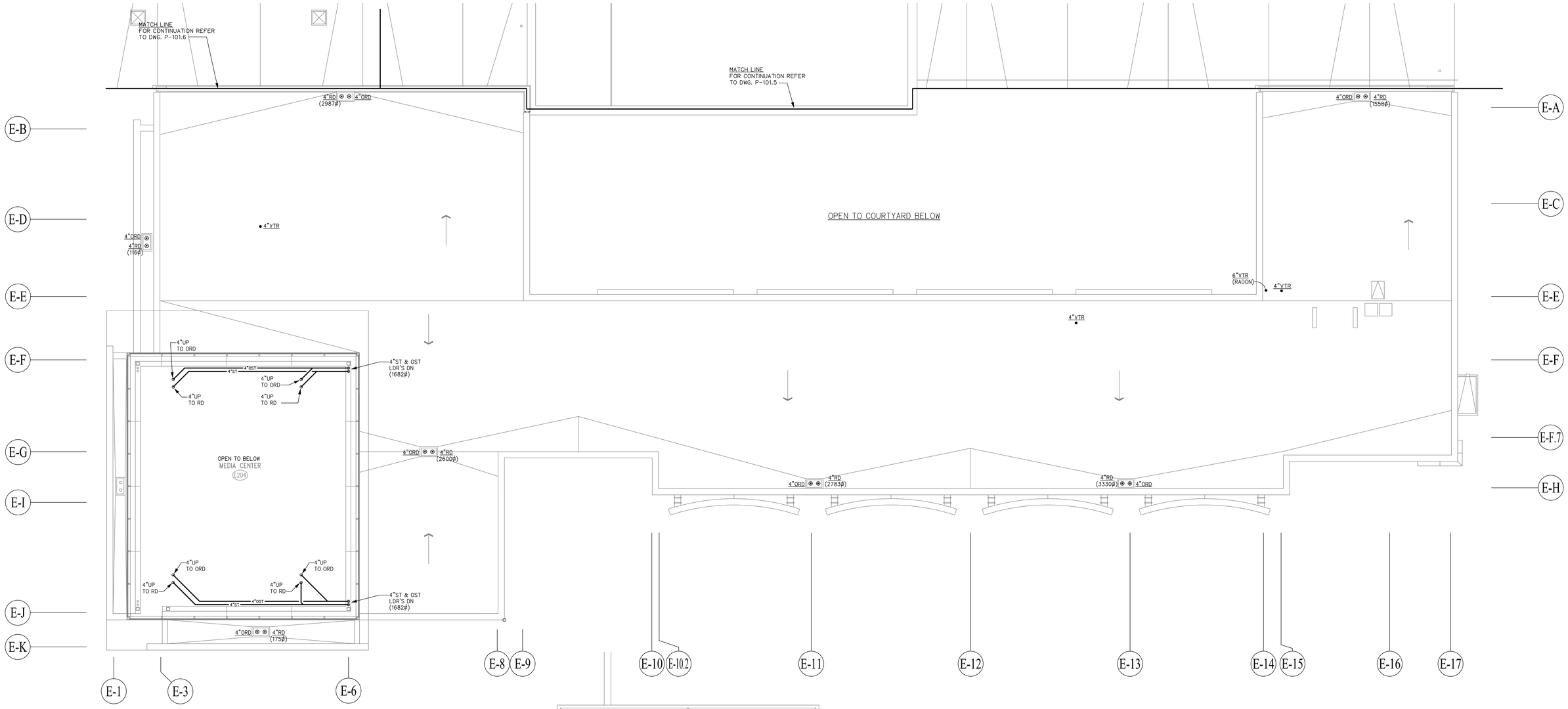
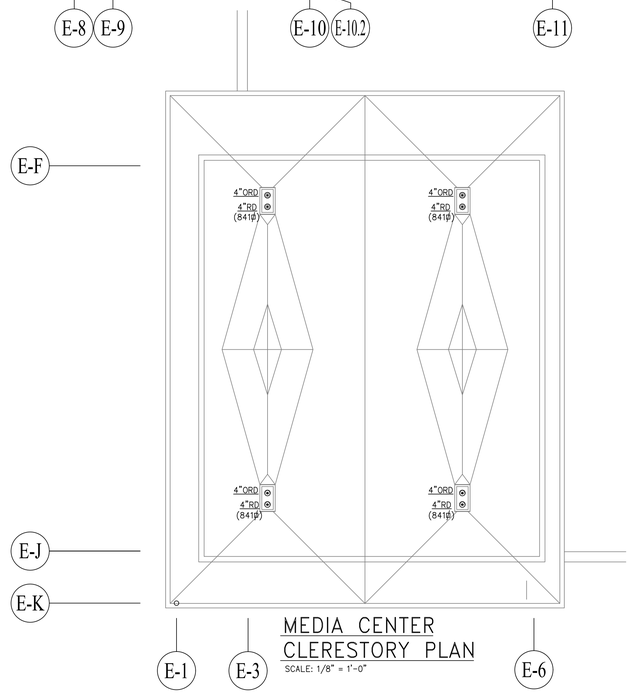
FILE:045124P REV:02/01/2007 17:15

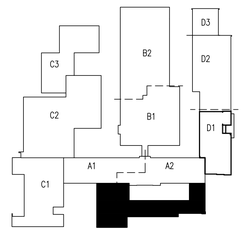
FILE:045118b REV:03/12/12 09:28





MEDIA CENTER CLERESTORY PLAN

SCALE: 1/8" = 1'-0"



ROOF KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

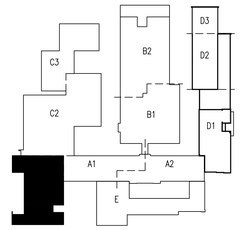
Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA E – ROOF PLAN PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PHILIP C. SEIBERT, No. 22218, ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
CAD No. 0451R4P		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MPC
Approved By: PCS
Drawing No. P-105.3

FILE:0451b REV:02/01/2007 17:15 FILE:0451r4eg REV:02/21/2008 11:32 FILE:0451r4p REV:12/19/11 16:37

NOTE:
PROVIDE VACUUM BREAKER'S ON ALL FOOD SERVICE EQUIPMENT SUPPLIES

= DENOTES FOOD SERVICE ITEM #. REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LIST.



FIRST FLOOR KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: FOOD SERVICE PLAN PLUMBING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, No. 22372, Licensed Professional Engineer	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 0451KTP	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/4"=1'-0"
Drawn By	MFic
Approved By	PCS
Drawing No.	P-201

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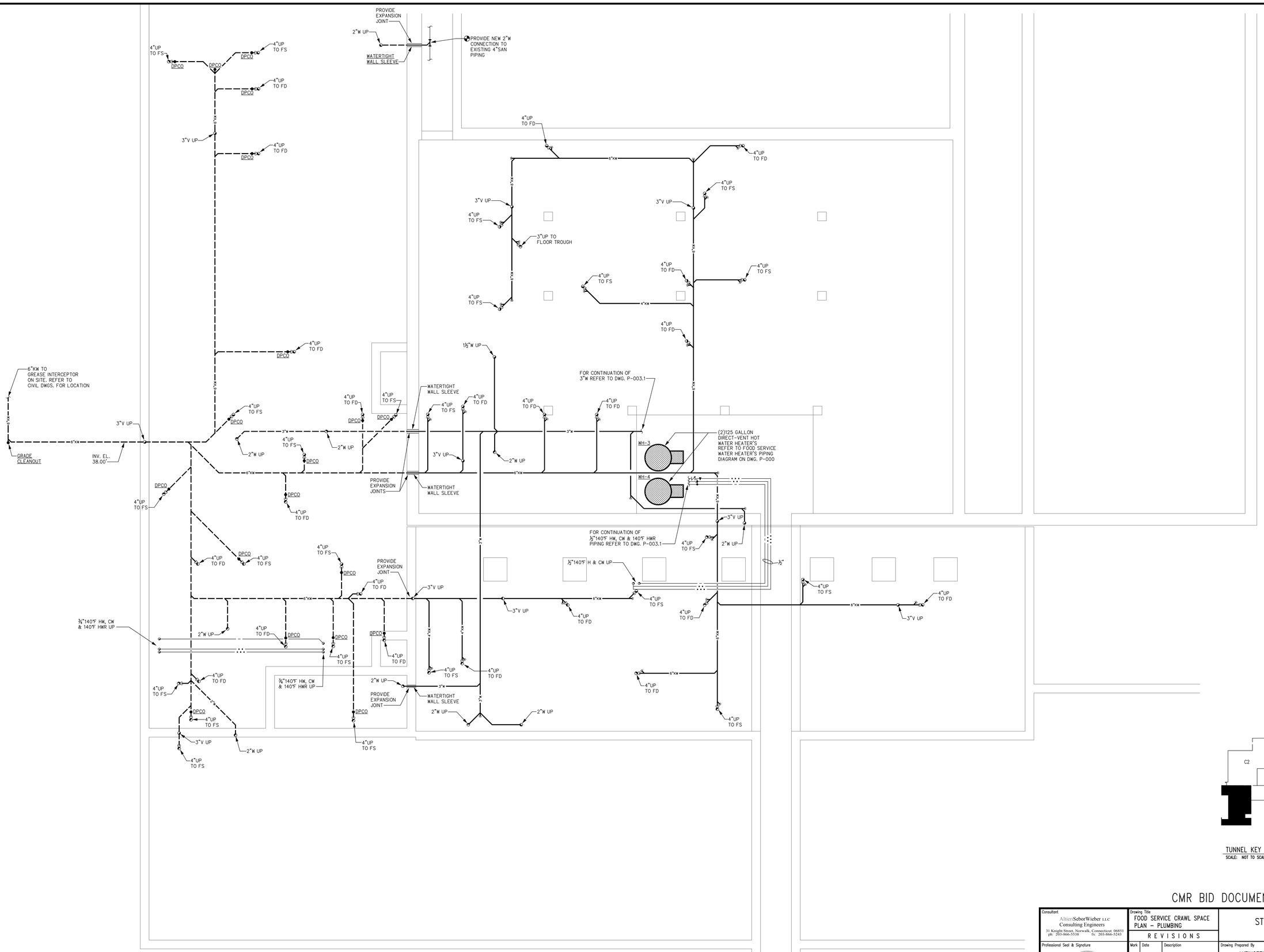

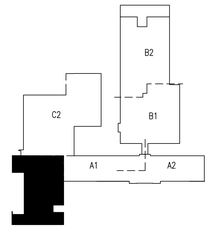

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AlbertSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
FOOD SERVICE CRAWL SPACE PLAN – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451KTPU

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-037

Date 06-18-2012
Scale 1/4"=1'-0"
Drawn By MPic
Approved By PCS
Drawing No. P-202

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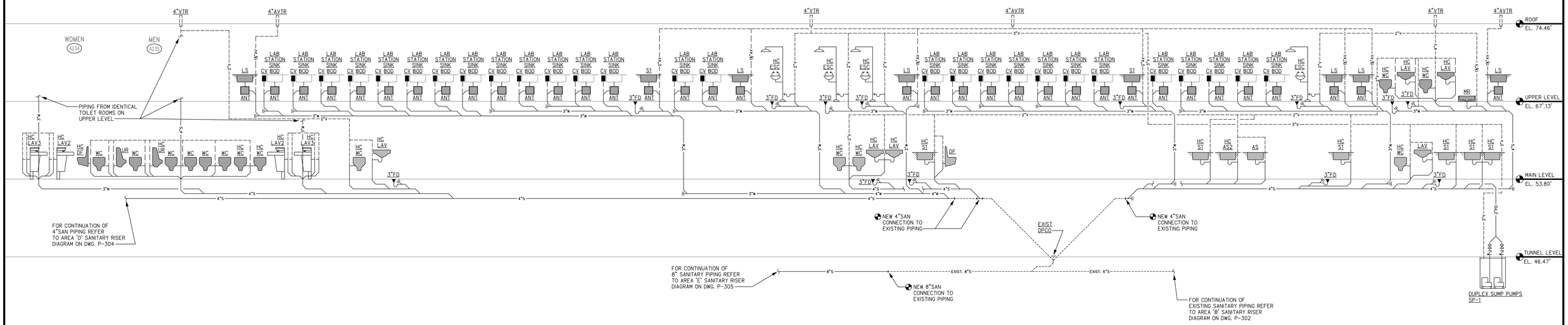
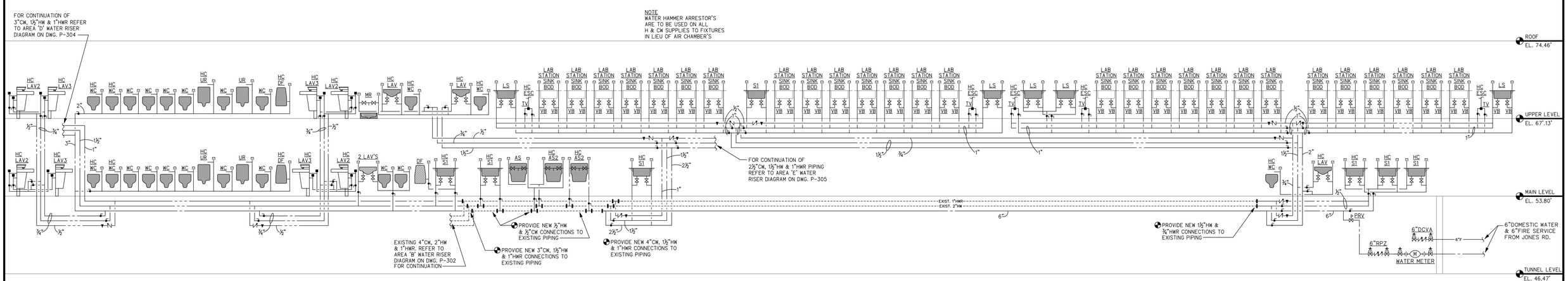


AREA 'A' SANITARY RISER DIAGRAM

SCALE: NONE



AREA 'A' WATER RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
SHOWERS (SH)	3/4"	3/4"	2"	2"
WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
FLOOR DRAIN (FD)	---	---	3"	2"

CMR BID DOCUMENTS

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Professional Seal & Signature

STATE OF CONNECTICUT · STATE OF CONNECTICUT · No. 20272 · Exp. 12-31-12

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA 'A' RISER DIAGRAMS PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRSA

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-937

Date	06-18-2012
Scale	NONE
Drawn By	CAD
Approved By	PCS
Drawing No.	P-301

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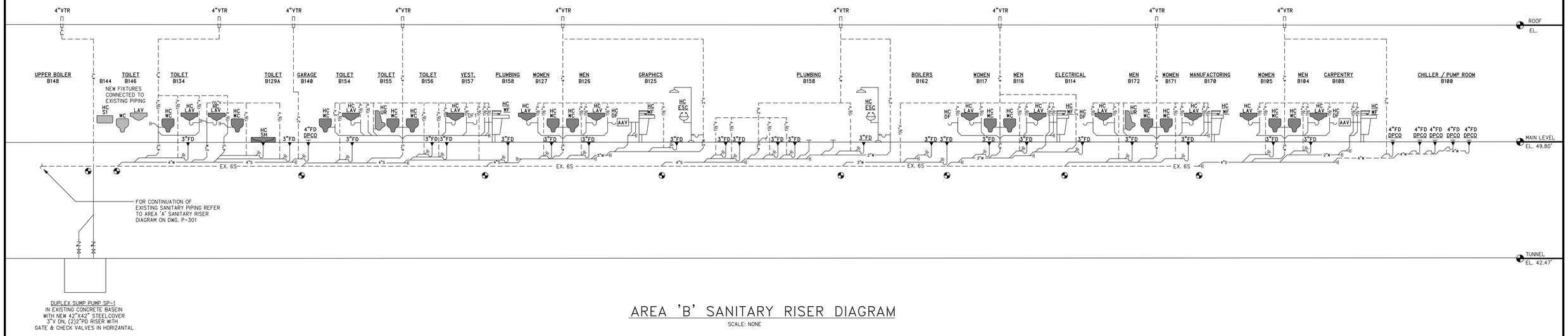
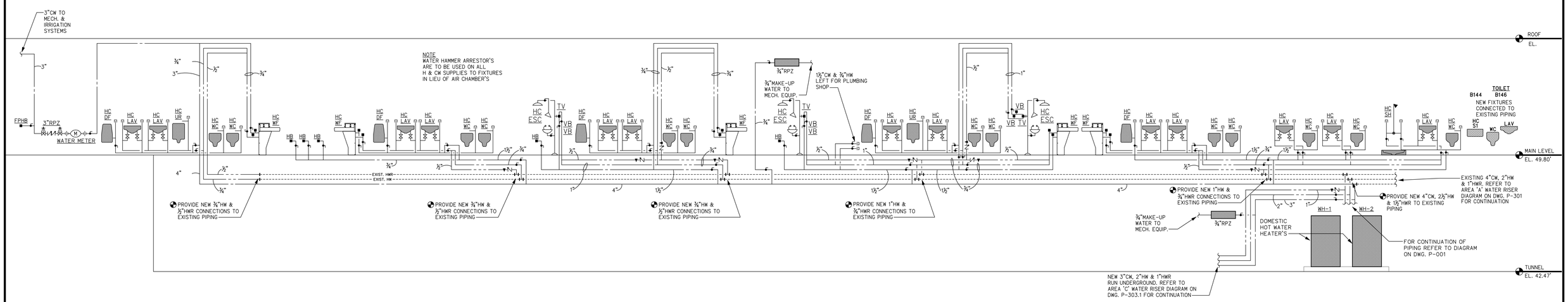


AREA 'B' SANITARY RISER DIAGRAM

SCALE: NONE



AREA 'B' WATER RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
SHOWERS (SH)	3/4"	3/4"	2"	2"
WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
FLOOR DRAIN (FD)	---	---	3"	2"

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA 'B' RISER DIAGRAMS PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRSB

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1 : 1
Drawn By MHZ
Approved By MP
Drawing No. P-302

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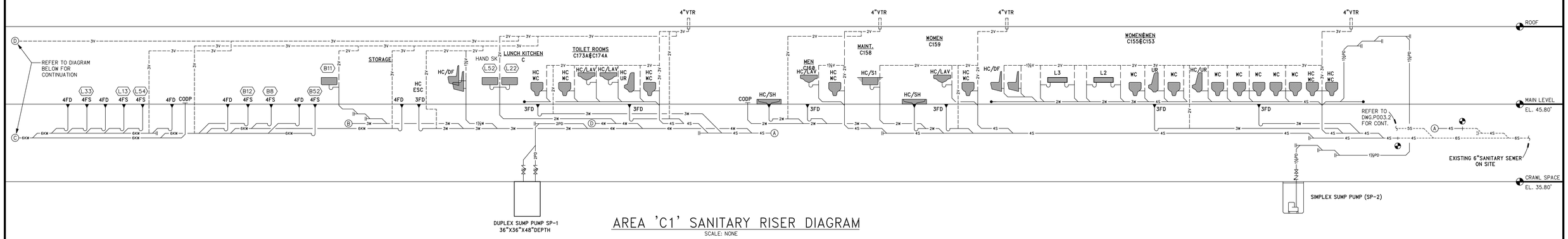
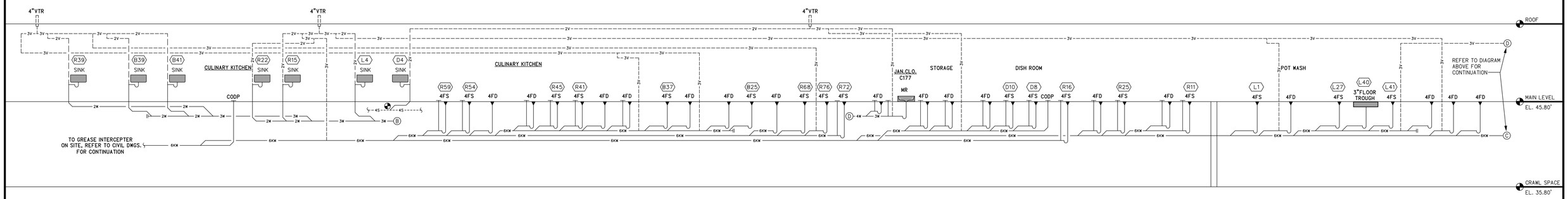


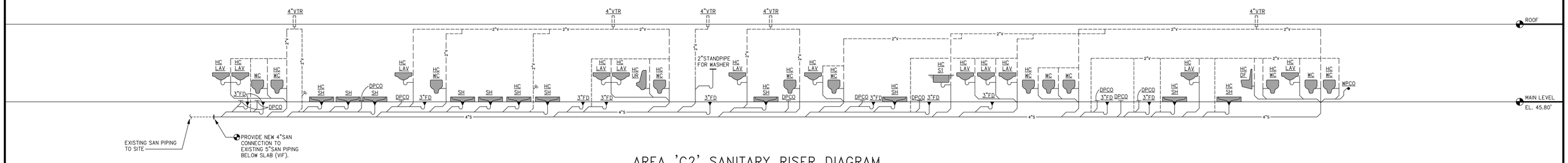
AREA 'C1' SANITARY RISER DIAGRAM

SCALE: NONE



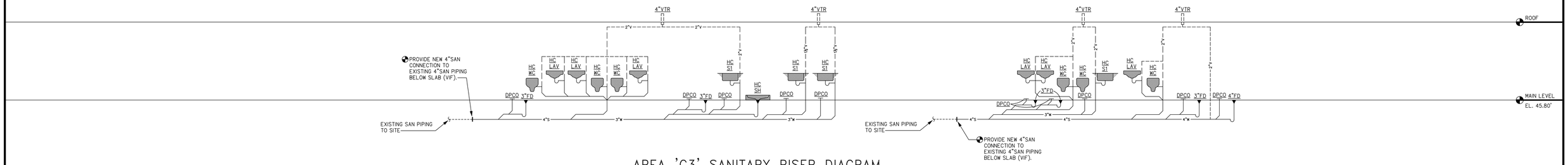
AREA 'C1' SANITARY RISER DIAGRAM CONTINUED

SCALE: NONE



AREA 'C2' SANITARY RISER DIAGRAM

SCALE: NONE



AREA 'C3' SANITARY RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
SHOWERS (SH)	3/4"	3/4"	2"	2"
WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
FLOOR DRAIN (FD)	---	---	4"	2"

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA 'C' SANITARY RISER DIAGRAMS – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRSC

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

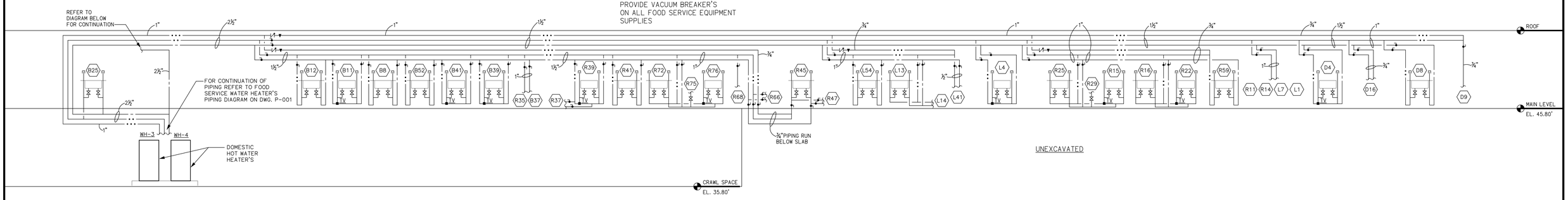
Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By MPlc
Approved By PCS
Drawing No. P-303

FILE 0451b REV:02/01/2007 17:15 FILE0451PRSC REV: 12/16/11 10:32

= DENOTES FOOD SERVICE ITEM #. REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LIST.

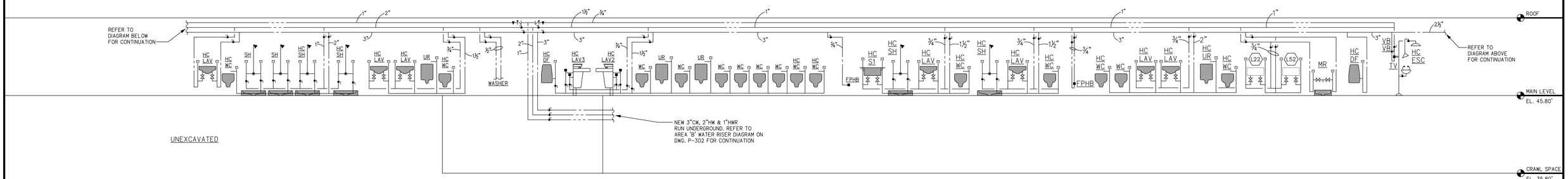
NOTE
PROVIDE VACUUM BREAKER'S ON ALL FOOD SERVICE EQUIPMENT SUPPLIES



NOTE
WATER HAMMER ARRESTOR'S ARE TO BE USED ON ALL H & CW SUPPLIES TO FIXTURES IN LIEU OF AIR CHAMBER'S

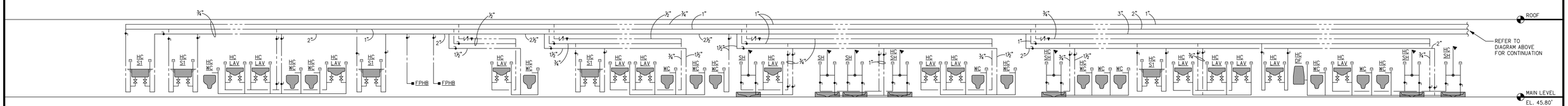
AREA 'C1' FOOD SERVICE WATER RISER DIAGRAM

SCALE: NONE



AREA 'C1/C2' WATER RISER DIAGRAM

SCALE: NONE



AREA 'C2/C3' WATER RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
SHOWERS (SH)	3/4"	3/4"	2"	2"
WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
FLOOR DRAIN (FD)	---	---	3"	2"

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ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA 'C' WATER RISER DIAGRAMS – PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRWC

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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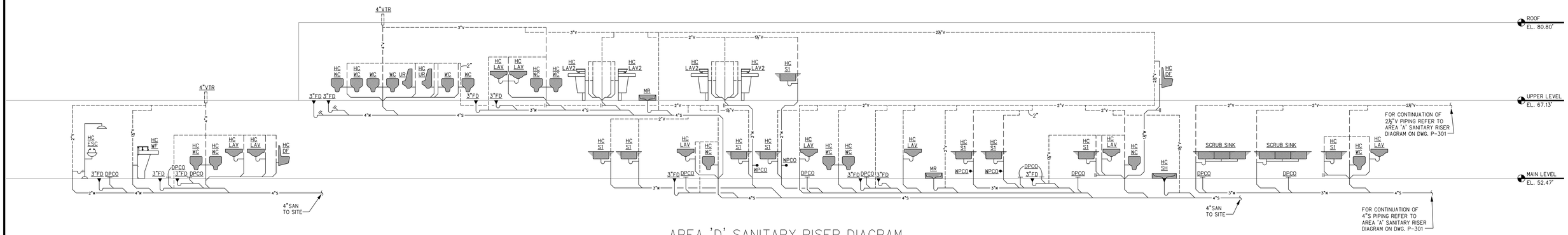
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

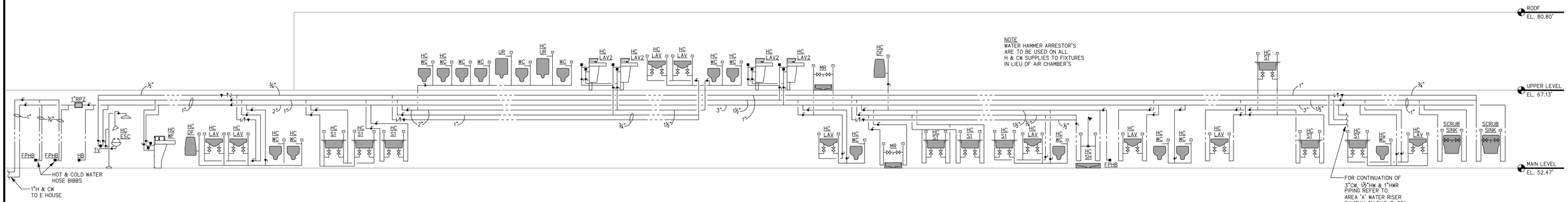
Date 06-18-2012
Scale AS NOTED
Drawn By MPic
Approved By PCS
Drawing No. P-303.1

FILE:0451b REV:02/01/2007 17:15
FILE:0451PRWC REV: 06/18/12 09:53



AREA 'D' SANITARY RISER DIAGRAM

SCALE: NONE



AREA 'D' WATER RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
SHOWERS (SH)	3/4"	3/4"	2"	2"
WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
FLOOR DRAIN (FD)	---	---	3"	2"

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Drawing Title
AREA 'D' RISER DIAGRAMS
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRSD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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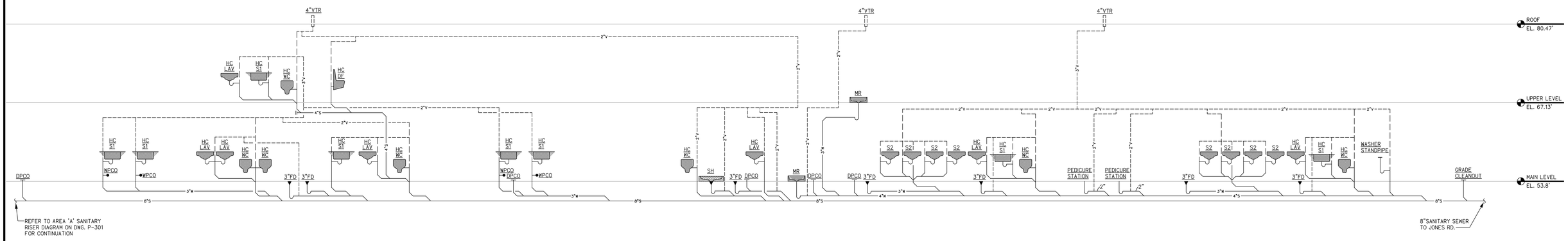
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

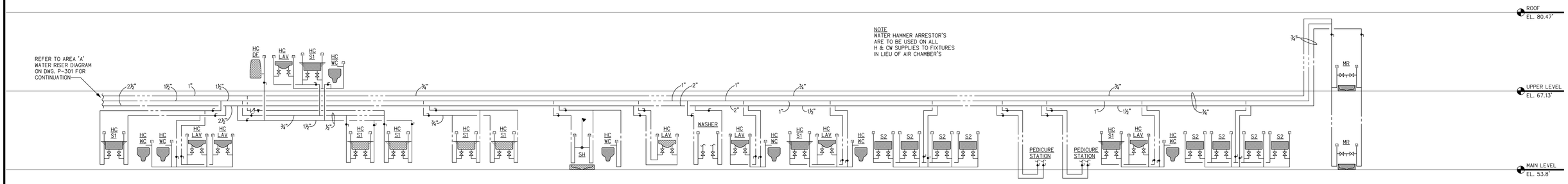
Date	06-18-2012
Scale	NONE
Drawn By	MPlc
Approved By	PCS
Drawing No.	P-304

FILE:0451b REV:02/01/2007 17:15 FILE:0451PRSD REV: 06/18/12 10:50



AREA 'E' SANITARY RISER DIAGRAM

SCALE: NONE



AREA 'E' WATER RISER DIAGRAM

SCALE: NONE

FIXTURE BRANCH SIZES

FIXTURE	COLD	HOT	WASTE	VENT
WATERCLOSET (WC)	1"	---	4"	2"
URINAL (UR)	3/4"	---	2"	2"
LAVATORIES	1/2"	1/2"	1 1/2"	1 1/2"
SINKS	1/2"	1/2"	2"	2"
DRINKING FOUNTAINS/WATER COOLERS (DF)	1/2"	---	1 1/2"	1 1/2"
HOSE BIBBS (HB)	1/2"	---	---	---
HOSE BIBBS (FPHB)	3/4"	---	---	---
MOP RECEPTORS (MR)	1/2"	1/2"	3"	2"
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WASHFOUNTAINS (WF)	1/2"	1/2"	2"	2"
EMERG. EYEWASH/SHOWER (ESC)	1"	1"	2"	2"
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Professional Seal & Signature

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Drawing Title
AREA 'E' RISER DIAGRAMS
PLUMBING

REVISIONS

Mark	Date	Description

CAD No. 0451PRSE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By MPic
Approved By PCS
Drawing No. P-305

FILE:0451b REV:02/01/2007 17:15 FILE:0451PRSE REV: 06/14/12 15:21

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR GENERAL REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT, RACEWAYS, AND GROUNDING SYSTEMS.

2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATION DETAILS FOR EXACT LOCATIONS, MOUNTING, AND ORIENTATION OF ALL LIGHTING FIXTURES, EQUIPMENT, DEVICES, AND OUTLETS.

3. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATION DETAILS FOR EXACT LOCATION AND MOUNTING OF ALL RECEPTACLES, SWITCHES, TELEPHONE AND DATA OUTLETS. CONFIRM WITH ARCHITECT EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO INSTALLATION OF ANY WORK.

4. PROVIDE A SUITABLE JUNCTION BOX AT EACH RECESSED FIXTURE, WHETHER SPECIFICALLY INDICATED OR NOT.

5. ALL CONDUITS SHALL BE RUN CONCEALED IN WALLS AND ABOVE HUNG CEILINGS. STUB-OUT OF WALLS AND FLOORS AS REQUIRED FOR CONNECTIONS TO EQUIPMENT AND/OR DEVICES.

6. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE A SEPARATE, INSULATED GREEN GROUND CONDUCTOR, SIZED AS INDICATED AND PER NEC REQUIREMENTS.

7. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ARCHITECTURAL, IRRIGATION, AND LANDSCAPE DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS, AND MOUNTING DETAILS FOR ALL EQUIPMENT INSTALLED ON THIS PROJECT. WORK UNDER THIS DIVISION (26) SHALL INCLUDE ALL ELECTRICAL WORK DETAILED, SPECIFIED, OR OTHERWISE REQUIRED FOR THE SUPPORT OF OTHER TRADES, UNLESS OTHERWISE SPECIFICALLY INDICATED.

8. COORDINATE WITH MECHANICAL CONTRACTOR AND THE REQUIREMENTS OF DIVISION 23 FOR LOCATIONS OF ALL TEMPERATURE CONTROL PANELS, DUCT-MOUNTED SMOKE DETECTORS, MOTOR STARTERS, AND OTHER EQUIPMENT. POWER FOR THE SAME SHALL BE PROVIDED AND INSTALLED BY DIVISION 26.

9. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT REQUIRING PREVENTIVE MAINTENANCE AND 3 COPIES OF ALL MAINTENANCE INSTRUCTIONS SHALL BE PROVIDED FOR THE OWNER'S USE.

10. COORDINATE CONSTRUCTION AND DESIGN OF TRIM AND SUPPORTS FOR ALL LIGHTING UNITS FOR CONFORMITY WITH THE CEILINGS IN WHICH THE UNITS ARE TO BE INSTALLED. ANY SPECIAL WORK OR COMPONENTS THAT MAY BE REQUIRED TO OVERCOME UNUSUAL DIFFICULTIES IN FITTING DESIGNS TO PARTICULAR LOCATIONS, OR TO CLEAR UNFORESEEN OBSTACLES, ETC., SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.

11. ALL LIGHTING FIXTURES LOCATED AT THE EXTERIOR OF THE BUILDING SHALL BE LISTED AND LABELED FOR WET LOCATIONS, AND SHALL BE FULLY GASKETED AND TAMPER-RESISTANT. PROVIDE WITH TAMPER-RESISTANT HARDWARE AND 3 SETS OF ASSOCIATED TOOLS TO OWNER.

12. COORDINATE LOCATIONS OF DEVICES AND OUTLETS IN ALL STORAGE AREAS WITH ARCHITECT AND FURNITURE/SHELVING BEING PROVIDED IN THESE AREAS.

13. DIVISION 23 TEMPERATURE CONTROL / MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING TO COMBINATION FIRE/ SMOKE DAMPERS AND SMOKE DAMPERS AS NOTED ON THE MECHANICAL DRAWINGS AND IN SECTION 230923. POWER SHALL BE FROM EMERGENCY SOURCES AS SCHEDULED ON THE ELECTRICAL DRAWINGS U.O.N.

14. DIVISION 23 TEMPERATURE CONTROL / MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER AND CONTROL WIRING TO VAV BOXES AND TERMINAL CONTROL UNITS AS NOTED ON THE MECHANICAL DRAWINGS AND IN SECTION 230923. POWER SHALL BE FROM NORMAL SOURCES AS SCHEDULED ON THE ELECTRICAL DRAWINGS U.O.N.

15. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING TO, BETWEEN, AND FROM ALL DISCONNECT SWITCHES AND MOTOR STARTERS, WHETHER IN THE SAME ENCLOSURE OR MOUNTED AS SEPARATE UNITS. ALL VARIABLE FREQUENCY DRIVES (VFD'S), COMBINATION STARTERS, AND MANUAL MOTOR STARTERS SHALL BE FURNISHED BY DIVISION 23 AND SHALL BE INSTALLED BY DIVISION 26. REFER TO SECTION 230513.

16. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS NOT INDICATED. CONSULT WITH ARCHITECT FOR RESOLUTION OF ANY DIMENSIONS NOT INDICATED.

17. ALL SAFETY DISCONNECT SWITCHES SHALL BE SUPPLIED AND INSTALLED BY DIVISION 26. REFER TO SECTION 260500. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR UNIT AND DEVICE LOCATIONS. SAFETY DISCONNECTS ON THE LOAD SIDE OF VFD'S SHALL BE EQUIPPED WITH AUXILIARY CONTACTS AND WIRING BACK TO RUN-ALLOW TERMINALS ON THE VFD TO PREVENT DISCONNECT FROM BEING CLOSED WITH THE VFD UNIT ACTIVATED.

18. WIRING BETWEEN MOTOR CONTROLLERS AND 2-SPEED MOTORS AND WYE/DELTA TYPE MOTORS SHALL INCLUDE 6 WIRES. WIRE SIZES SHALL MATCH FEEDER TO CONTROLLER UNLESS OTHERWISE NOTED.

19. NOT USED.

20. LIGHT SWITCHES, RECEPTACLES, TELEPHONES, AND DATA OUTLETS, AS WELL AS FIRE ALARM PULL STATIONS, HORN/STROBES, AND OTHER DEVICES, SHALL BE MOUNTED AT HEIGHTS TO COMPLY WITH THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA), THE APPLICABLE STATE AND LOCAL BUILDING CODES, AND PER ALL AUTHORITIES HAVING JURISDICTION. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MOUNTING LOCATION INFORMATION.

21. FURNISH AND INSTALL FLOOR BOX AND (2) 1" EMPTY CONDUIT FROM EACH FLOOR BOX IN SLAB DECK, REFER TO STRUCTURAL AND ARCHITECTURAL DETAILS FOR SCOPE OF INSTALLATION REQUIREMENTS.

22. NOT USED.

23. NOT USED.

24. NOT USED.

25. PROVIDE GFI TYPE RECEPTACLES WHEN RECEPTACLES SHOWN ON PLANS ARE WITH-IN SIX (6) FEET OF ANY WATER SOURCE.

26 COVER AND PROTECT ALL SMOKE DETECTORS DURING DAILY CONSTRUCTION AND REMOVALS, UNCOVER AT THE END OF THE DAY.

27. REFER TO ARCHITECTURAL REFLECTED CEILING PALNS FOR MORE INFORMATION ABOUT LIGHT FIXTURE TYPES, MOUNTING, LOCATION AND SPECIFICATIONS.

28. LOCATION OF ALL EXPOSED DEVICES, CONDUIT, WIRE AND ASSOCIATED BOXES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.

29. NOT USED.

30. NOT USED.

31. REFER TO THE PHASING DOCUMENTS FOR ADDITIONAL INFORMATION.

32. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER ELECTRICAL AGENCIES AND CODES WHICH APPLY.

33. NOT USED.

34. FOR SEISMIC REQUIREMENTS REFER TO SPECIFICATION SECTION 260548.

35. IN ALL STAIRWELLS, NO PENETRATIONS OF CONDUIT, WIRE, EQUIPMENT OR OTHER SERVICES SHALL BE PERMITTED EXCEPT FOR THOSE RELATED TO LIFE SAFETY OR THE STAIRS THEMSELVES.

36. NOT USED.

36a. THIS CONTRACTOR SHALL REVIEW THE PH-SERIES DRAWINGS AND FURNISH AND INSTALL REQUIRED EXIT SIGNS, EMERGENCY LIGHTING AND LIGHT FIXTURES AS REQUIRED FOR CODE COMPLIANT EGRESS PASSAGES AND EXITS.

GENERAL NOTES

37. PROVIDE 3/4" TYPE AC PLYWOOD IN ALL ELECTRICAL ROOMS. MOUNTED FROM FLOOR TO CEILING COVERING ALL OF THE WALLS. PLYWOOD TO BE PAINTED WITH FLAME RETARDENT GRAY PAINT. COORDINATE THE INSTALLATION WITH ALL TRADES.

38. PROVIDE ALL WIRING REQUIRED FOR WATER HEATER AND CIRCULATION SYSTEM INSTALLATION.

39. NOT USED.

40. THE CONTRACTOR SHALL PROVIDE TRAINING FOR THE SCHOOL MAINTENANCE STAFF. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

41. ALL EXIT LIGHT FIXTURE TYPES AND THEIR CHEVRONS SHALL BE VISIBLE FROM 40' MINIMUM.

42. CONCEAL CONDUITS IN WALLS USING CONCRETE MASONRY UNIT (CMU OR ICMU), BLOCK, SHEET ROCK, AND CONSTRUCTION.

43. NOT USED.

44. NOT USED.

45. THE EXTERIOR WALL MOUNTED LIGHT FIXTURES SHALL BE MOUNTED THROUGH THE INSULATED MASONRY UNIT (ICMU) WITH A SINGLE CONDUIT TO A RECESSED JUNCTION BOX LOCATED IN THE INTERIOR ICMU. CONDUITS SHALL BE INSTALLED WITHIN ICMU WALLS.

46. ALL CONDUITS TO BE RUN CONCEALED IN NEW WALLS ANS ALL EXISTING REMAINING GYP BOARD WALLS. ALL CONDUITS SHALL RUN EXPOSED ON ALL EXISTING REMAINING CMU OR CONCRETE WALLS EXCEPT AS OTHERWISE NOTED OR INDICATED.

47. NOT USED.

48. TYPICAL FOR DRAWINGS, FURNISH AND INSTALL AUTOMATIC FLUSH AND FAUCET VALVES CIRCUITS, CIRCUIT BREAKERS, AND WIRING. REFER TO ARCHITECTURAL FOR LOCATIONS AND EQUIPMENT SPECIFICATIONS. REFER TO P-SERIES DRAWINGS AND SPECIFICATIONS.

49. NOT USED.

AND COORDINATED WITH OTHER CONDUITS.

50. TYPICAL FOR DRAWINGS, COORDINATE, FURNISH AND INSTALL ADA TELEPHONE CIRCUITS, CIRCUIT BREAKERS AND WIRING. REFER TO ARCHITECTURAL FOR LOCATIONS AND EQUIPMENT SPECIFICATIONS.

51. CONTRACTOR SHALL INSTALL FLOOR BOX CONDUITS 12" BELOW SLAB ON GRADE AND WITHIN CONCRETE DECKS. CONDUITS SHALL BE INSTALLED TO ABOVE HUNG CEILINGS. CONTRACTOR SHALL LOCATE AND INSTALL FLOOR BOXES PER THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. REFER TO DOCUMENTS FOR PROPOSED PATHWAYS AND CONDUIT QUANTITY.

52. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR UNDERGROUND, UNDER SLAB, AND WITHIN CONCRETE DECKS, THE OF CONDUIT ROUTING 3/4" AND LARGER FOR REVIEW AND COMMENT.

53. CEILING CONDUITS SHALL BE INSTALLED AND INCORPORATED WITH OTHER CONDUITS AND COORDIANTED WITH OTHER CONDUITS. THIS CONTRACTOR SHALL PROVIDE A SHOP DRAWING LOCATING AND ARANGING CONDUITS, DEVICES, ...ETC.. THIS CRITERIA IS TYPICAL FOR ALL ROOMS WHETHER INDICATED ON THE DRAWINGS OR NOT.

54. CONDUITS FOR POWER, LIGHTING, LIGHTING CONTROL, FIRE ALARM, INTERCOMMUNICATION, ETC. SHALL BE PROVIDED IN EXPOSED CEILINGS AND NEATLY ARRANGED WITH OUT EXCEPTION.

55. PROVIDE 2 1"C. TO ABOVE CEILING OR BOTTOM OF BAR JOIST FROM FLOOR BOX UNDER SLAB ON GRADE AND WITHIN DECK SLAB. CONDUITS SHALL BE MARKED ON THE UNDERSIDE OF CONCRETE DECK TO PREVENT OTHER TRADES FROM DRILLING THROUGH CONDUITS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING OTHER TRADES WITH DRAWINGS SHOWING LOCATION OF IN SLAB CONDUITS. THIS CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED IN OR UNDER SLAB CONDUITS AND THERE PROPOSED ROUTING.

56. FLOOR BOXES SHALL BE INSTALLED AFTER VERIFICATION WITH ARCHITECTURAL DRAWINGS. REFER TO DETAIL 3 ON DRAWING E703. ROUTING OF FLOOR BOX CONDUITS ARE DIAGRAMMATIC. THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL DIVISIONS OF THE CONSTRUCTION DOCUMENTS.

57 CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL DIVISIONS OF THE CONSTRUCTION DOCUMENTS.

58. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUPPLEMENTAL STEEL FOR LIGHT FIXTURE INSTALLATION.

59. IT IS THE INTENT OF THE DESIGN DOCUMENTS TO INSTALL PANEL BOARD FEEDER CONDUITS UNDER THE GROUND FLOOR SLAB OF THE ADDITIONS. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING PRIOR TO THE INSTALLATION OF UNDERGROUND CONDUITS. THE ELECTRICAL CLOSETS HAVE BEEN ARRANGED IN ORDER TO IMPLEMENT THE INSTALLATION OF THE CONDUITS AND REDUCE COORDINATION WITH OTHER DIVISIONS.

60. IT IS THE INTENT OF THE DESIGN DOCUMENTS TO INSTALL BRANCH CONDUITS UNDER THE GROUND FLOOR SLAB OF THE NEW ADDITIONS. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING PRIOR TO THE INSTALLATION OF UNDERGROUND CONDUITS.

61. THE ELECTRICAL CONTRACTOR SHALL COORDINATE RECEPTACLE LOCATIONS WITH DATA LOCATIONS.

62. THE ELECTRICAL CONTRACTOR SHALL PROVIDE #10 AWG THHN FOR HALLWAYS AND CORRIDORS BRANCH AND CIRCUIT WIRING.

63. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (15) DUPLEX RECEPTACLES WITH 70' OF CONDUIT AND (3) #12 CONDUCTORS IN ADDITIONAL LOCATIONS TO BE DETERMINED.

64. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (20) HOME RUN CIRCUITS AND BREAKERS WITH 200' CONDUIT AND (4) #12 CONDUCTORS IN ADDITIONAL LOCATIONS TO BE DETERMINED.

65. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (5) HOME RUN CIRCUITS AND BREAKERS WITH 200' CONDUIT AND (4) #10 CONDUCTORS IN ADDITIONAL LOCATIONS TO BE DETERMINED.

66. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PATCHING FOR EXISTING LOCATIONS OF BOTH SURFACE AND RECESSED ELECTRICAL PANELS, CONDUITS AND BOXES. PATCHING MATERIAL SHALL MATCH EXISTING TO REMAIN.

67. PROVIDE 2 POLE AND 3 POLE CIRCUIT BREAKERS FOR MULTI-CONDUCTOR CABLE. SERVING SINGLE POLE LOADS. THE MULTI-CONDUCTOR CABLE SHALL BE PROVIDED WITH PHASE CONDUCTORS FOR SIMULTANEOUS DISCONNECTING MEANS.

68. NOT USED.

69. TELE/DATA AND SECURITY INFRASTRUCTURE, WHICH INCLUDES WIRING, DEVICES, JACKS, EQUIPMENT, ETC. ARE PROVIDED BY INDEPENDENT OWNER CONTRACTOR/CONSULTANT. COORDINATE WITH OWNER'S INDEPENDENT CONTRACTOR/CONSULTANT LOCATIONS AND REQUIREMENTS.

70. FURNISH AND INSTALL CONDUITS AND BACK BOXES AS NOTED AND REQUIRED BY THE SECURITY CONSULTANT/CONTRACTOR DOCUMENTS. REFER TO SECURITY CONTRACTOR/CONSULTANT DOCUMENTS FOR CARD READER CONDUITS AND DETAILS.

71. NOT USED.

72. WHEN MULTI CONDUCTOR LOADS ARE INSTALLED IN SINGLE CONDUITS THE BONDING AND NEUTRAL CONDUCTOR FROM EACH MULTI CONDUCTOR CIRCUIT SHALL BE IDENTIFIED AND CONNECTED TOGETHER. AS REQUIRED BY THE N.E.C.

73. REFER TO STRUCTURAL DOCUMENTS FOR DETAILS ON PATCHING REQUIREMENTS.

74. EXISTING ELECTRICAL SERVICE SHALL REMAIN FOR DURATION OF PROJECT. THE SERVICE PANEL FEEDER SHALL HAVE A PHASED REMOVAL. WHEN ALL ELECTRICAL LOADS HAVE BEEN REMOVED, AND AREAS PROVIDED WITH NEW ELECTRICAL POWER THE SERVICE CAN BE REMOVED. COORDINATE WITH THE PHASING DOCUMENTS FOR SCHEDULING AND TIMING.

75. EXISTING ELECTRICAL SERVICE SHALL BE CLEANED AND MAINTAINED AT THE BEGINNING OF THE PROJECT.

76. REFER TO STRUCTURAL DRAWINGS OF "E" WING TO AVOID COLUMN FOOTINGS FOR CONDUIT INSTALLATION.

77. NOT USED.

78. NOT USED.

79. THE CONTRACTOR SHALL PROVIDE AT THE END OF EACH PHASE COMPLETE, FUNCTIONAL, TESTED AND FULLY OPERATIONAL SYSTEMS READY FOR USE BY THE OWNER.

80. WHEN EXISTING PIPING, EQUIPMENT, DUCTWORK, CONDUIT ETC. IS REMOVED FROM A WALL, FLOOR OR CEILING THE CONTRACTOR SHALL PROVIDE AN APPROVED FIRE AND SMOKE SEALANT AND SHALL PATCH AS REQUIRED.

81. THIS CONTRACTOR SHALL REFER TO THE P-SERIES DRAWINGS FOR LOCATIONS OF WATER FOUNTAINS, WATER COOLERS WATER CLOSETS, URINALS, LAVATORIES, AND ITEMS REQUIRING ELECTRICAL POWER. THIS CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL WIRING AND POWER FOR COMPETE AND FUNCTIONAL PLUMBING FIXTURE.

ELECTRICAL SYMBOLS

Symbol	Description
	RECESSED DOWNLIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	EMERGENCY RECESSED DOWNLIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS.
	SURFACE-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	SURFACE-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS
	PENDANT-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	PENDANT-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS
	WALL-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	WALL-MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS UNLESS OTHERWISE NOTED.
	TYPICAL CEILING-MOUNTED, FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	TYPICAL RECESSED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS.
	TYPICAL CEILING-MOUNTED, FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	TYPICAL RECESSED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS.
	FLUORESCENT WALL-MOUNTED FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	FLUORESCENT WALL-MOUNTED FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS
	LINEAR FLUORESCENT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE
	LINEAR FLUORESCENT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE WIRED TO EMERGENCY CIRCUIT AND CONTROLS UNLESS OTHERWISE NOTED.
	POWER/LIGHT TRACK WITH NUMBER OF FIXTURES AS INDICATED ON PLANS; SUBLETTER INDICATES FIXTURE TYPE
b	WHEN LIGHT FIXTURE IS NOTED WITH "b" PROVIDE BATTERY BALLAST
	DUPLEX CONVENIENCE RECEPTACLE-SEE SPECIFICATION SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT
	SINGLE CONVENIENCE RECEPTACLE
	GROUND FAULT INTERRUPTING RECEPTACLE
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE
AL	DUPLEX CONVENIENCE RECEPTACLE LOCATED NEXT TO ASSISTED LISTENING TRANSMITTERS
J	CEILING MOUNTED JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX AV = DENOTE BOX FOR AV EQUIPMENT
J	FLOOR MOUNTED JUNCTION BOX
	FLOOR BOX WITH DUPLEX CONVENIENCE RECEPTACLE
	FLOOR BOX WITH SURGE SUPPRESSION RECEPTACLE
	FLOOR BOX WITH (8)DUPLEX CONVENIENCE RECEPTACLE SEE SPECIFICATION PROVIDE 2 1"C. TO ABOVE CEILING OR BOTTOM OF BAR JOIST
WM	SURFACE METAL RACEWAY (WIREMOLD G4000) WITH POWER. FURNISH AND INSTALL BARRIER FOR LOW VOLTAGE WIRING. PROVIDE (1) 3/4"C FOR EVERY FOUR FEET FOR TELDATA. 3/4"C TO BE FURNISHED AND INSTALLED TO ABOVE ACCESSIBLE HUNG IN CEILING IN COORIDOR AND HALLWAYS
S	SINGLE POLE SWITCH
S 2	TWO POLE SWITCH
S 3	3 - WAY SWITCH
S 4	4 - WAY SWITCH
S D	DIMMER (SWITCH) OR CONTROL
S K	KEY SWITCH
S P	SWITCH WITH PILOT LIGHT
S R/L	MOMENTARY CONTACT RAISE / LOWER SWITCH
S RC	REMOTE CONTROL SWITCH (R# = ASSOCIATED RELAY)
S M	MOTOR DISCONNECT SWITCH - SNAP TYPE (SEE SPECS.)
	BREAK GLASS EMERGENCY SWITCH
	KITCHEN HOOD MANUAL SHUNT TRIP
J BMS	WALL MOUNTED JUNCTION BOX FOR DDC HVAC CONTROLS
40 50 60	FURNISH AND INSTALL RECEPTACLE AS REQUIRED WITH PLATE. FEED WITH 4-#6+G, 1" C CIRCUIT AS NOTED. PROVIDE 40A,50A,60A, 3P CIRCUIT BREAKER.
SPECIAL RECEPTACLE	PROVIDE RECEPTACLE TYPE NEMA L5-30R WITH PLATE. FEED WITH 2-#10+G, 3/4" C AND CIRCUIT AS NOTED. PROVIDE 30A, 1P CIRCUIT BREAKER.
	MOTOR LOCATION
	POWER OR LIGHTING PANEL
	TELEPHONE TERMINAL BACKBOARD
30/30	FUSED DISCONNECT SWITCH (SWITCH SIZE / FUSE)
30/-	UNFUSED DISCONNECT SWITCH (SWITCH SIZE / NO FUSE)
30/*	FUSED DISC SW (* = FUSE SIZED BY EQUIPMENT MANUFACTURER)
	COMBINATION MOTOR STARTER / MOTOR CIRCUIT PROTECTOR LOCATION
	VARIABLE FREQUENCY DRIVE / VARIABLE SPEED CONTROLLER
FACP	FIRE ALARM CONTROL PANEL
	MISCELLANEOUS CONTROL PANEL
CR	CARD READER
SPD	SURGE PROTECTION DEVICE
KW	OWNER METERING (REFER TO SPECIFICATIONS)
O m	RECESSED MAGNETIC CONTACT
M	MOTION SENSOR
CH	COUNTER HEIGHT REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION
EMB	ELECTRONIC MESSAGE BOARD

Symbol	Description
F	FIRE ALARM WATER FLOW BELL
S S R	DUCT MOUNTED SMOKE DETECTOR; S=SUPPLY, R=RETURN PROVIDE WITH REMOTE TEST SWITCH
S RTS	REMOTE TEST SWITCH
FSD	FIRE SMOKE DAMPER
FSR	FAN SHUTDOWN RELAY
FSI	FIRE / SECURITY SYSTEM INTERFACE
F	MANUAL FIRE ALARM PULL STATION; MOUNT 48" AFF U.O.N.
	FIRE ALARM VISUAL INDICATING UNIT; MOUNT AT 80" AFF U.O.N.
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT; MOUNT AT 80" AFF U.O.N. (VOICE EVACUATION SYSTEM)
S	AUTOMATIC FIRE ALARM SMOKE DETECTOR
H	AUTOMATIC HEAT DETECTOR WITH TEMPERATURE RATING AS INDICATED ON PLANS.
M	FIRE ALARM MAGNETIC DOOR HOLD DEVICE
FS - FS	FIRE ALARM FLOW SWITCH
SS - TS	SPRINKLER ALARM SUPERVISORY SWITCH
F	MASTER FIRE ALARM PULL BOX; MOUNT AT 48" AFF
S E	SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS
H E	HEAT DETECTOR FOR ELEVATOR SHUNT TRIP CONTROLS
H RR	135F HEAT DETECTOR RATE OF RISE U.O.N.
F	FIRE ALARM CEILING-MOUNTED SPEAKER
	REMOTE FIRE ALARM FLASHING STROBE LIGHT
	EMERGENCY CALL SWITCH, MOUNTED AT 36" AFF EMERGENCY CALL LIGHT AND BUZZER; MOUNT AT 7'-6" AFF REFER TO DETAIL #5 ON E-702 FOR MORE INFORMATION.
	EMERGENCY SHUT-OFF SWITCH MOUNTED AT 48" AFF (SPECIFY ELECTRICAL OR GAS)
TYPE "X"	CEILING MOUNTED EXIT SIGN WITH DIRECTIONAL CHEVRON. A SECOND SIGN WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH DIRECTIONAL CHEVRONS, SHALL BE MOUNTED DIRECTLY ADJACENT TO THE CEILING MOUNTED EXIT SIGN AS INDICATED ON THE PLANS. WIRE TO CONSTANTLY HOT SIDE OF LOCAL LIGHTING CIRCUIT. REFER TO SPECIFICATION 265000.3.5.
TYPE "X"	WALL MOUNTED EXIT SIGN WITH DIRECTIONAL CHEVRON. A SECOND SIGN WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH DIRECTIONAL CHEVRONS, SHALL BE MOUNTED DIRECTLY ADJACENT TO THE WALL MOUNTED EXIT SIGN AS INDICATED ON THE PLANS. WIRE TO CONSTANTLY HOT SIDE OF LOCAL LIGHTING CIRCUIT. REFER TO SPECIFICATION 265000.3.5.
TYPE "X"	WALL MOUNTED LOW LEVEL EXIT SIGN WITH DIRECTIONAL CHEVRON A SECOND SIGN WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH DIRECTIONAL CHEVRONS, SHALL BE MOUNTED DIRECTLY ADJACENT TO THE WALL MOUNTED LOW LEVEL EXIT SIGN AS INDICATED ON THE PLANS. WIRE TO CONSTANTLY HOT SIDE OF LOCAL LIGHTING CIRCUIT. REFER TO SPECIFICATION 16500 3.5. SIGNS SHALL BE LOCATED WITH THE BOTTOM OF THE SIGN NO LESS THAN 6" AND NO GREATER THAN 18" FROM THE FINISHED FLOORS. THE EDGE OF THE SIGN SHALL BE LOCATED WITHIN 4" OR ADJACENT TO THE DOOR.
AOR AOR	AREA OF REFUGE SIGN WITH DIRECTIONAL CHEVRON AND WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WIRE TO CONSTANTLY HOT SIDE OF LOCAL EMERGENCY LIGHTING CIRCUIT
	LOW LEVEL EXIT SIGN - TOP OF SIGN 16"AFF
C	AREA OF REFUGE COMMUNICATION PHONE TO MAIN INTERCOM STATION WITH LIGHTED SIGN. REFER TO SPEC. 260500.2.23 REFER TO DRAWING E-704 DETAIL #3.
	EQUIPMENT / OUTLET CONTROL GROUP WIRING
------	UNSWITCHED BRANCH CIRCUIT WIRING
LP/#	HOMERUN TO PANEL (LP = PANEL NAME; # = CIRCUIT #)
LP/#RN	HOMERUN TO PANEL VIA RELAY OR CONTACTOR (RN = RELAY NUMBER)
	UNSWITCHED EMERGENCY BRANCH CIRCUIT WIRING
	EMERGENCY EQUIPMENT / OUTLET CONTROL GROUP WIRING
	BRANCH CIRCUIT ARROW
	MISCELLANEOUS SYSTEM ARROW (AS DEFINED)
	MISCELLANEOUS SIGNAL CONDUIT
WP	WEATHERPROOF
B.O.	BY Owner
EX	EXISTING
PB	PULL BOX
JB	JUNCTION BOX
CB	CIRCUIT BREAKER
C	CONDUIT
RE	REMOVE
EC	EMPTY CONDUIT W/DRAG LINE
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
REF	REFRIGERATOR
ICE	ICE MAKER
TV	REFER TO E-704 DETAIL #4. ARCHITECT SHALL PROVIDE THE HEIGHT.
UC	UNDER COUNTER
GRC	GALVANIZED RIGID CONDUIT - PROVIDE 90 DEGREE SWEEPS AND PIPE FOR STUB UPS THROUGH CONCRETE FLOORS
SPEC.	SPECIFICATION
TX	TRANSFORMER
MW	MICROWAVE
S O	OCCUPANCY SWITCH
U.O.N.	UNLESS OTHERWISE NOTED

Symbol	Description
P	DUPLEX CONVENIENCE RECEPTACLE. CEILING LOCATE FOR PROJECTOR.
M	DUPLEX CONVENIENCE RECEPTACLE. LOCATE FOR MESSAGE BOARD.
GSO	GAS SOLENOID VALVE
WP	EXTERIOR CAMERA. FURNISH AND INSTALL COMPLETE POWER INSTALLATION. FURNISH AND INSTALL 3#10 +G 13A 1P CB
PS	FIRE ALARM PRESSURE SWITCH
MW	MICROWAVE REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION
S	CEILING MOUNTED SPEAKER
	CEILING MOUNT DUPLEX CONVENIENCE RECEPTACLE
BD 50A	BUS DUCT 50 AMP CIRCUIT BREAKER
BD 20A	BUS DUCT 20 AMP CIRCUIT BREAKER
20A	CIRCUIT BREAKER DISCONNECT SWITCH (SWITCH SIZE)
CO	CARBON MONOXIDE DETECTOR SEE SPEC. SECTION 283100
S	START STOP
	PROVIDE 2 1"C. TO ABOVE CEILING OR BOTTOM OF BAR JOIST FROM FLOOR BOX UNDER SLAB ON GRADE AND WITHIN DECK SLAB. WHEN THIS LINE TYPE IS CONNECTED TO A FLOOR BOX IT REPRESENTS IN DECK SLAB OR UNDER SLAB CONDUITS. REFER TO NOTE 61.
	EMERGENCY LIGHTING BATTERY UNIT W/HEADS WIRE TO CONSTANTLY HOT SIDE OF LOCAL LIGHTING CIRCUIT.
	REMOTE EMERGENCY LIGHT
CS	(2) 4" EMT CONDUIT SLEEVES, REFER TO DETAIL 2 ON E701.
TC	TIME CLOCK
PC	PHOTO CELL
AOR	AREA OF REFUGE
BS	PHOTOELECTRIC BEAM SMOKE DETECTOR - TRANSMITTER
BS	PHOTOELECTRIC BEAM SMOKE DETECTOR - RECEIVER
CPI	REFER TO SPEC SECTION 275123.2.8.B
KP	KEY PAD
ES	ELETRIC STRIKE
LCD	LIGHTING CONTROL AND DESIGN EMERGENCY SHUNT RELAY LCD#GR2001E/S-120/277
EH	ELECTRIC HINGE
TS	DIGITAL TEMPERATURE MONITOR PROVIDING REMOTE, OFF SITE MONITORING AND WIRED TO SECURITY SYSTEM.
R	RELAY OR CONTACTOR FOR LIGHTING CONTROL
J TA	TEMPERATURE ALARM WIRED TO SECURITY SYSTEM
OC	2- WAY OCCUPANCY SENSOR SWITCH
OC	360° CEILING-MOUNTED OCCUPANCY SENSOR SWITCH
AR	ADDITIONAL OCCUPANCY SENSOR RELAY WIRE PER MANUFACTURERS SPECS.
C	WALL MOUNTED CLOCK WG=WIRE GUARD, 12" CLOCK FACE U.O.N.
J VAV	JUNCTION BOX FOR VAV BOXES. CONNECT A MAXIMUM OF 6 VAV BOXES PER CIRCUIT. FIELD VERIFY EXACT LOCATIONS, CIRCUIT AS SHOWN.
UPS	MGE MODEL #-EX15 — PROVIDE 1500 WATT STAND ALONE DOUBLE CONVERSION UPS AS MANUFACTURED BY MGE. MGE MODEL #EX-15 SHALL BE THE STANDARD PROVIDE MALE PLUG TYPE NEMA L5-30P WITH 10' OF 10-2+G,SJTO CORD
S a	SINGLE POLE SWITCH, LETTER INDICATES CONTROL - 48"AFF U.O.N.
∇C	CEILING PROJECTOR DATA LOCATION
∇SB	SMART BOARD DATA LOCATION
∇TD	TEACHER DESK DATA LOCATION
∇	DATA LOCATION REFER TO DETAIL #4 ON E-704
EV	ELECTRICALLY OPERATED VALVE
EWC	ELECTRIC WATER COOLER
	FLOOR BOX WITH DATA JACK TYPICAL
CH	MOUNTED AT COUNTER HEIGHT

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title: SYMBOLS, NOTES & ABBREVIATION ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT PHILIP C. STEINER No. 22271 LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS — Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604 — Date 06-18-2012; Scale NTS
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514 — Drawn By -; Approved By -
	CAD No. 0451ESYM	Project No. BI-RT-837 — Drawing No. E-001

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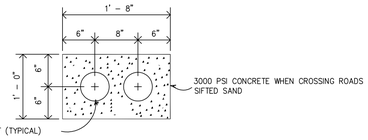
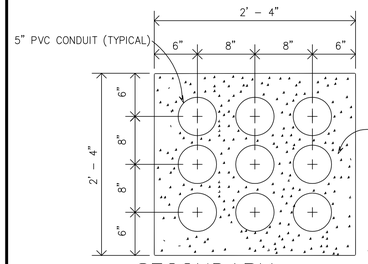


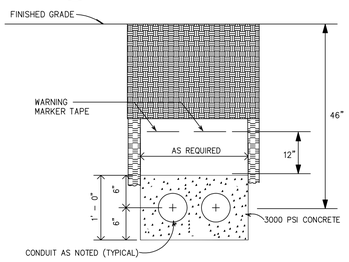
1 UTILITY PRIMARY DUCTBANK DETAIL

ES101 | ES101 SCALE: NONE FURNISH AND INSTALL 3/8" ROPE IN CONDUITS.



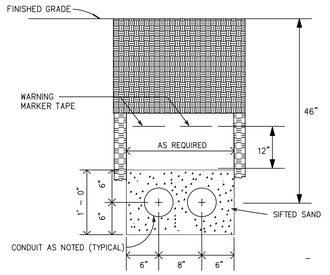
2 SECONDARY DUCTBANK DETAIL

ES101 | ES101 SCALE: NONE



3 DRIVEWAY AND PARKING AREA TRENCH DETAIL

ES101 | ES101 SCALE: NONE

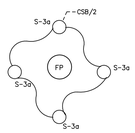


4 TRENCH DETAIL

ES101 | ES101 SCALE: NONE

8 TENNIS COURT FENCE PIPE DETAIL

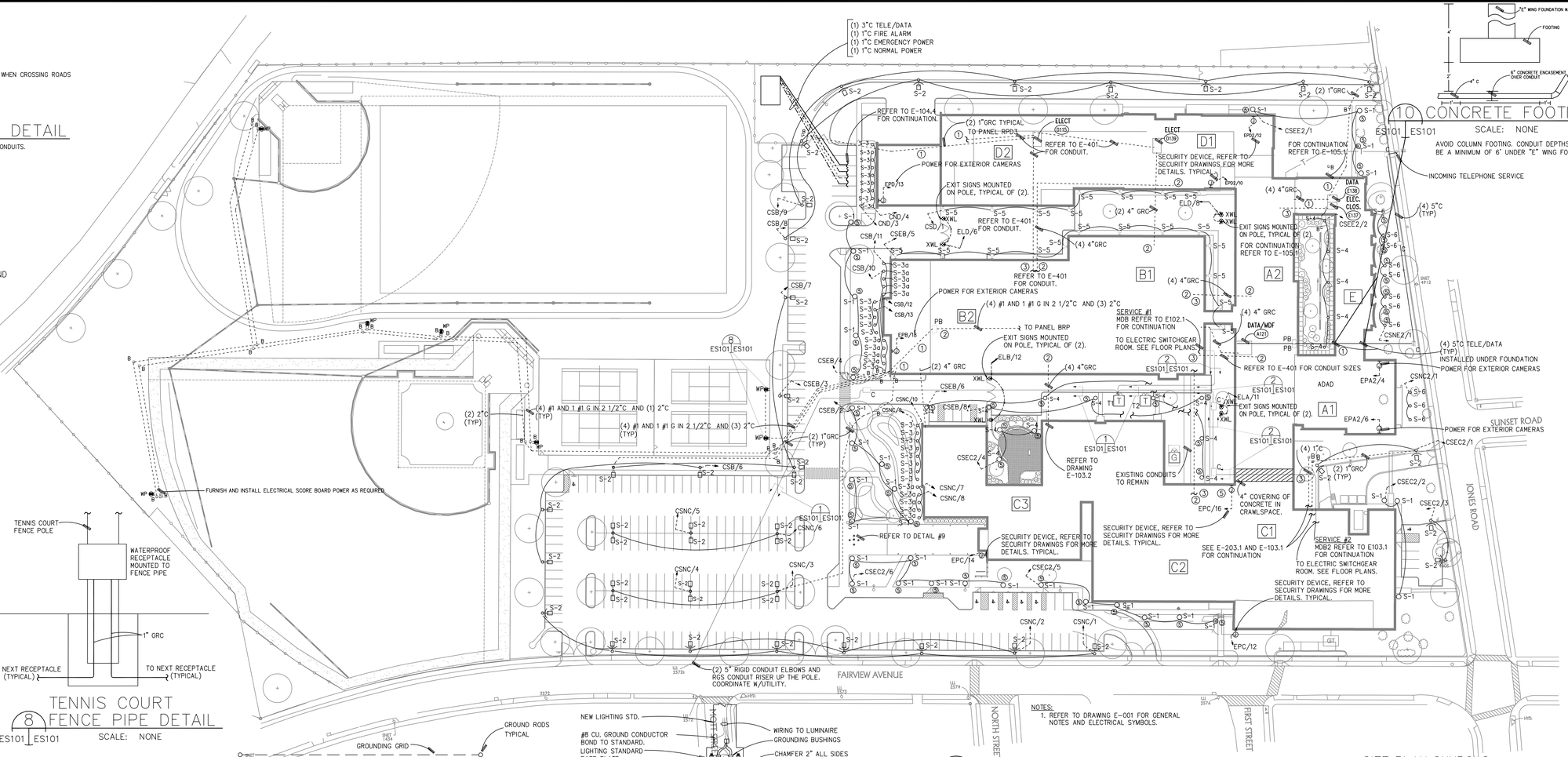
ES101 | ES101 SCALE: NONE



9 LIGHTING DETAIL

ES101 | ES101 SCALE: NONE

COORDINATE WITH CIVIL DOCUMENTS FOR PAVING CONFIGURATION AND LOCATION.



10 CONCRETE FOOTING

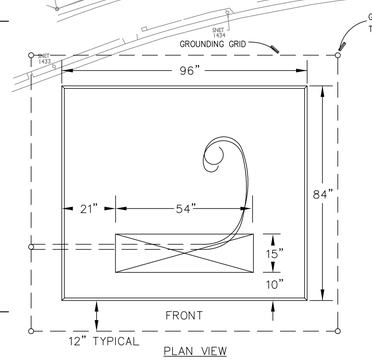
ES101 | ES101 SCALE: NONE

AVOID COLUMN FOOTING. CONDUIT DEPTHS SHALL BE A MINIMUM OF 6' UNDER "E" WING FOOTING.

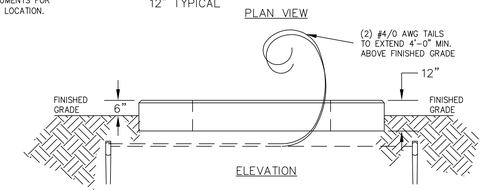
NOTES:
1. REFER TO DRAWING E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

0 SITE PLAN

ES101 | ES101 SCALE: 1" = 50'



PLAN VIEW



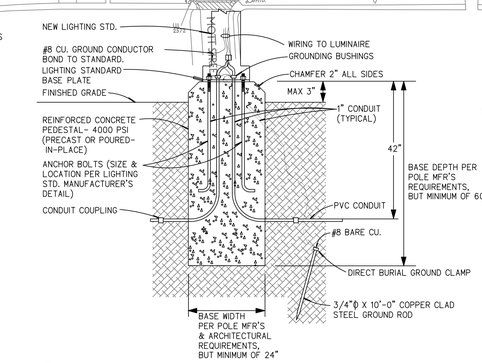
ELEVATION

NOTES:

1. FOUR COPPERWELD GROUND RODS AND A #4/0 AWG BARE COPPER GROUNDING GRID SHALL BE INSTALLED AND CONNECTED WITH (5) APPROVED GROUND GRID CONNECTORS AS SHOWN.
2. THE GROUND GRID "TAILS" SHALL BE BROUGHT, BELOW GRADE, INTO THE FOUNDATION WINDOW AS SHOWN.
3. THE GROUND RODS, GROUND GRID, PRIMARY NEUTRALS, SECONDARY NEUTRALS, TRANSFORMER TANK AND CONDUITS SHALL ALL BE EFFECTIVELY BONDED TOGETHER.
4. ALL GROUNDING AND BONDING SHALL BE DONE WITH COPPER WIRE. THE MINIMUM CONDUCTOR SIZE FOR BONDING METAL CONDUITS IS #4 AWG BARE COPPER; ALUMINUM WIRE IS NOT ACCEPTABLE.
5. GROUNDING BUSHINGS SHALL BE USED FOR BONDING ALL METAL CONDUITS.
6. THE GROUND GRID AND ASSOCIATED CONNECTIONS REQUIRE U.I. INSPECTION PRIOR TO BACKFILLING THE
7. A COMPACTED BASE OF CRUSHED STONE OF 12" MINIMUM DEPTH SHALL BE INSTALLED ON A LEVEL COMPACTED SUB-GRADE WITH A MINIMUM SOIL BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT.
8. CONCRETE SHALL CONFORM WITH ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE; AND SHALL HAVE A MINIMUM ULTIMATE STRENGTH (FC') OF 3,000 PSI AT 28 DAYS, A MAXIMUM OF 1 1/2" COARSE AGGREGATE, AND AIR ENTRAINMENT FOR A TOTAL AIR CONTENT OF 3% – 6% BY VOLUME.
9. REINFORCING STEEL SHALL BE NEW, DEFORMED BARS MEETING ASTM A615 SPECIFICATIONS FOR GRADE NO. 60 STEEL. THE REINFORCING SHOWN IS TYPICAL FOR FIELD FABRICATION.
10. A PRE-CAST FOUNDATION WILL REQUIRE LIFTING EYES AND MAY REQUIRE ADDITIONAL REINFORCING TO HANDLE THE STRESSES OF TRANSPORTATION AND SETTING IN PLACE.
11. THE TOP SURFACE SHALL BE SMOOTH AND LEVEL WITH A 1" CHAMFER ALONG THE UPPER EDGES.
12. THE LOCATION AND ORIENTATION OF THE FOUNDATION MUST BE APPROVED BY U.I. PRIOR TO THE START OF CONSTRUCTION. SEE U.I. STANDARDS 20501, 20503, 23006 FOR LOCATION AND INSTALLATION REQUIREMENTS.

6 EXTERIOR TRANSFORMER PAD DETAIL

ES101 | ES101 SCALE: NONE



5a LIGHTING STANDARD (FOUNDATION) DETAIL

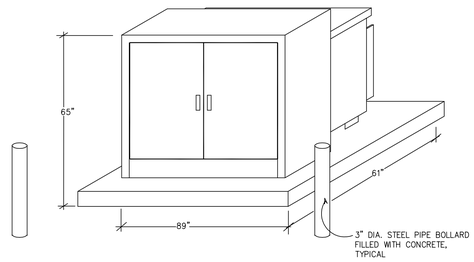
ES101 | ES101 SCALE: NONE

NOTE: PROVIDE 1/2" OF NON-SHRINK GROUT BETWEEN LIGHTING STANDARD BASE PLATE AND CONCRETE.
THE MINIMUM DISTANCE OF ALL POST LIGHTS FROM THE INSIDE EDGE OF A DRIVEWAY OR PARKING SPACE CURB SHALL BE TWO FEET (2').

PAD MOUNT TRANSFORMER LOCATION NOTES:

1. Locate transformers within 10 feet of traffic bearing paved surface for maintenance & replacement access.
2. Provide minimum clearance from various building facilities as follows:

ITEM	MINIMUM DISTANCE IN FRONT OF	TO SIDE OF	BELOW
Combustible Wall	6'	6'	–
Noncombustible Wall	3'	3'	–

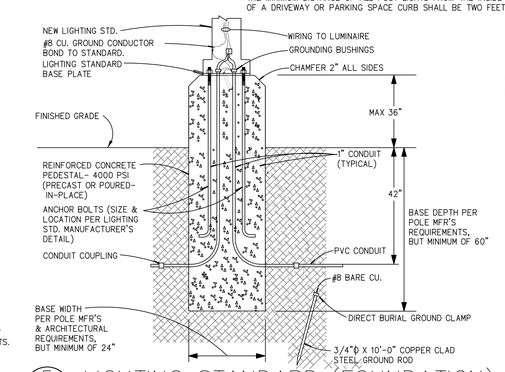


6a PAD MOUNT TX-500 KVA (EST.)

ES101 | ES101 N.T.S.

NOTES:

1. REFER TO GENERAL NOTES ON THIS DRAWING.



5 LIGHTING STANDARD (FOUNDATION) DETAIL

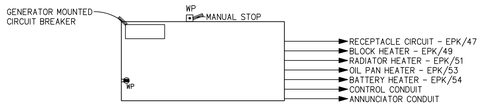
ES101 | ES101 SCALE: NONE

NOTE: PROVIDE 1/2" OF NON-SHRINK GROUT BETWEEN LIGHTING STANDARD BASE PLATE AND CONCRETE.

THE MINIMUM DISTANCE OF ALL POST LIGHTS FROM THE INSIDE EDGE OF A DRIVEWAY OR PARKING SPACE CURB SHALL BE TWO FEET (2').

SITE PLAN NOTES

1. PROVIDE 12' POLE FOR LIGHT FIXTURE S-2a.
2. FOR LUMINAIRE S-1 USE FOUNDATION DETAIL #5a.
3. FOR LUMINAIRE S-2 USE FOUNDATION DETAIL #5.
4. UNLESS OTHERWISE NOTED PROVIDE TYPE V OPTICAL DISTRIBUTION.
5. PROVIDE DETAILED VOLTAGE DROP CALCULATIONS PRIOR TO INSTALLATION.
6. PROVIDE DETAILED SUBMITTAL OF ELECTRICAL SITE CONDUITS PRIOR TO INSTALLATION.
7. REFER TO SPECIFICATION 265000 FOR LUMINAIRE SCHEDULE.
8. REFER TO SPECIFICATION 260500 FOR ADDITIONAL INFORMATION
9. REFER TO SPECIFICATION 260500 FOR VOLTAGE DROP CRITERIA AND CONDUCTOR SIZING.
10. MAINTAIN 10' OF CLEARANCE BETWEEN UTILITY TRANSFORMER AND EMERGENCY GENERATOR.
11. BRING BOTH ENDS OF GROUNDING LOOP INTO GROUND BOX LOCATED IN MIDDLE LEVEL MAIN ELECTRICAL ROOMS.
12. COORDINATE WITH ARCHITECTURAL DOCUMENTS.
13. FURNISH LINK SEALS AND SLEEVES FOR SLAB ON GRADE PENETRATIONS REFER TO DETAIL#1 ON DRAWING E701.
14. TRANSITION SITE LIGHTING CONDUITS FROM PVC TO EMT UPON ENTRANCE INTO BUILDING. FURNISH AND INSTALL STEEL COMPRESSION FITTINGS FOR EMT INSTALLATION.
15. FURNISH AND INSTALL 36" RADIUS SWEEPS FOR CONDUITS.
16. FURNISH AND INSTALL 1/4" ROPE IN CONDUITS.
17. FURNISH AND SHOP DRAWING WITH LUMINAIRE OPTICAL DISTRIBUTION
18. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM LOCATIONS AND ADDITIONAL INFORMATION.
19. IT IS THE INTENT OF THESE DOCUMENTS TO INSTALL CONDUITS BELOW SLAB WERE EVER POSSIBLE.
20. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
21. PROVIDE 2#8+G IN 1" RIGID CONDUIT FOR ALL EXTERIOR SECURITY DEVICES.



7 GENERATOR

ES101 | ES101 SCALE: NONE

SITE PLAN SYMBOLS

- 12' pole – EXTERIOR POLE HEIGHT
- EXTERNAL HOUSE SIDE SHIELD- REFER TO E501
- S-1 – EXTERIOR BOLLARD
- S-2 – EXTERIOR POST LIGHT
- S-3 – EXTERIOR WELL LIGHT
- TYPE 3 – PROVIDE TYPE 3 OPTICAL DISTRIBUTION
- TYPE 5 – PROVIDE TYPE 5 OPTICAL DISTRIBUTION
- T – EXTERIOR MOUNT UTILITY TRANSFORMER FURNISH AND INSTALL UI TRANSFORMER CAST IN PLACE PAD
- G – EMERGENCY / STAND-BY GENERATOR
- 3 #6 +G IN 1" CONDUIT (TYPICAL) UNLESS OTHERWISE NOTED
- 3 #6 +G IN 1" CONDUIT (TYPICAL) TO SITE LIGHTING CONTROL
- A – 4' x 4' QUAZITE BOX
- B – 2' x 2' QUAZITE BOX
- C – 4' X 6' QUAZITE BOX H20 LOADING
- D – 3' X 5' QUAZITE BOX H20 LOADING
- (2) – FURNISH AND INSTALL (2), SEPARATE RACEWAYS INTO 2 PAIR.
- FP – FLAG POLE

DRAWING NOTES

1. INSTALL CONDUITS UNDER SLAB
2. INSTALL CONDUITS IN TUNNEL BELOW.
3. REFER TO E-401 FOR ADDITIONAL INFORMATION
4. GROUND LOOP REFER TO SPECIFICATION 260500.
5. PROVIDE DETAIL 5a THIS DRAWING

CMR BID DOCUMENTS

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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
SITE PLAN
ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 04515PE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

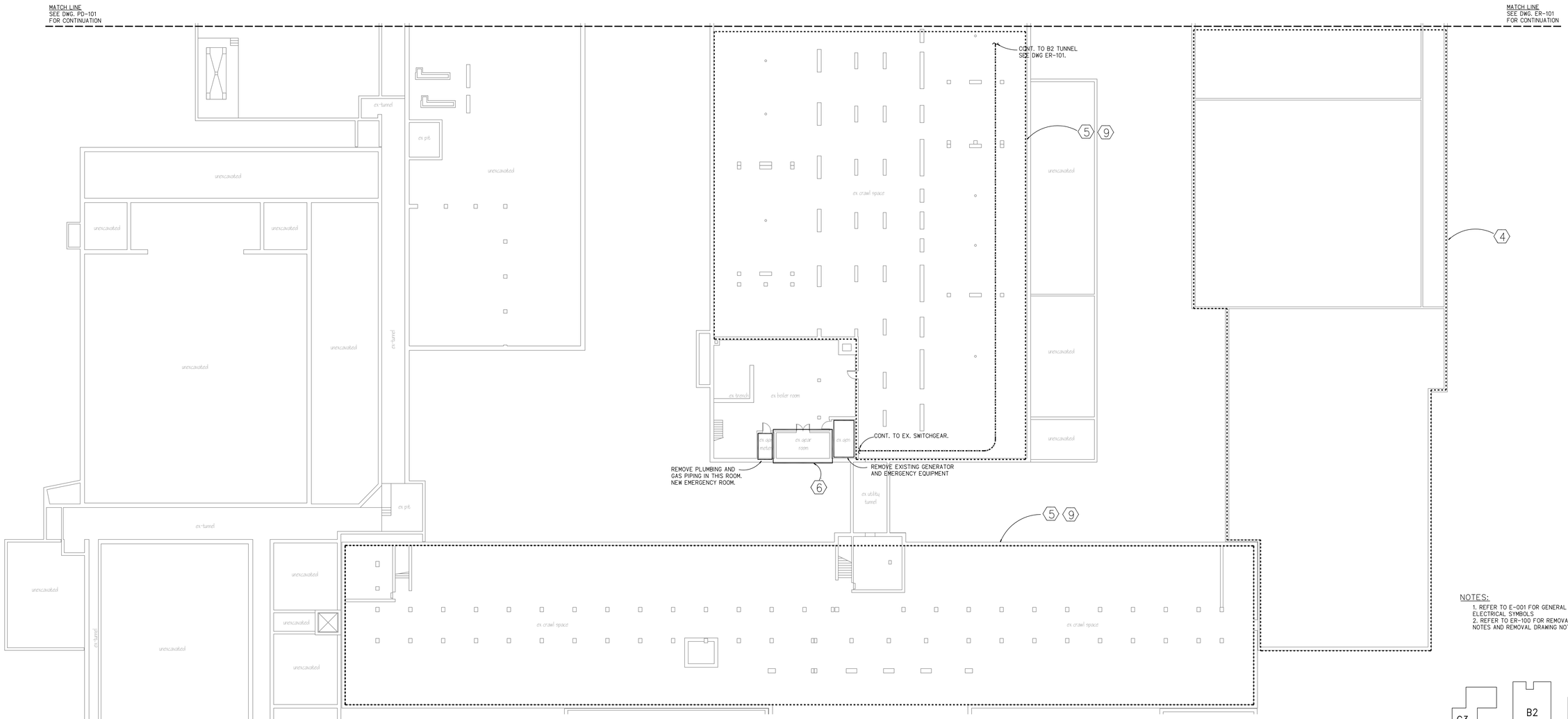
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By –
Approved By –
Drawing No. ES-101

FILE:04515pe REV:08/20/12 TR:33
FILE:04515b REV:02/01/2007 17:15



NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

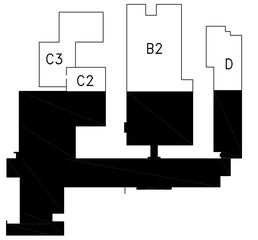
REMOVAL GENERAL NOTES:

1. REROUTE OR RELOCATED, AS REQUIRED ANY CONDUIT AND/OR WIRING, PULLBOXES AND/OR JUNCTION BOXES. LIGHTING FIXTURES , OUTLETS, ETC. WHICH ARE LAID BARE IN THE COURSE OF, OR INTEFERE WITH THE REMOVALS. REFER TO PHASING DRAWINGS.
2. TV BRACKETS AND TELEVISION SETS MUST BE REMOVED BY THE CONTRACTOR AND PLACED IN AN OWNER DESIGNATED AREA. WINDOW AC UNITS TO BE DISPOSED OF BY CONTRACTOR.
3. REMOVED ALL UNUSED VISIBLE AND NON-VISIBLE ELETRICAL WIRING/CONDUITS.
4. NOT USED.
5. PROVIDE UNINTERRUPTED POWER SERVICES FOR ADJACENT AREAS NOT PART OF THE CONSTRUCTION. SCHEDULE POWER OUTAGES DURING NON-BUSINESS HOURS TO DISCONNET/REFEED EXISTING BRANCH CIRCUITS.
6. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY ALL REMOVALS BEFORE CONSTRUCTION.
7. REFER TO ARCHITECTURAL DEMOLITION DOCUMENTS FOR ADDITIONAL SCOPE.
8. REFER TO ARCHITECTURAL PHASING DOCUMENTS FOR ADDITIONAL SCOPE.
9. IT IS THE INTENT OF THE DOCUMENTS, AT THE COMPLETION OF PROJECT THE LAST PHASE, THE EXISTING ELECTRICAL MATERIAL, EQUIPMENT NOT BEING REUSED SHALL BE REMOVED IN TOTAL.
10. ELECTRICAL REMOVALS SHALL BE PERFORMED DURING EACH PHASE OF THE PROJECT. OCCUPIED AREAS SHALL BE OPERATIONAL FOR THE USE BY THE OWNER AT ALL TIMES DURING THE PROJECT. AT NO TIME SHALL THE AREA BE WITH OUT THE REQUIRED ELECTRICAL SERVICES. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONNECTIONS TO MAINTAIN THESE SERVICES.

REMOVAL DRAWING NOTES:

- REFER TO PHASING PLANS FOR REMOVAL'S TIMING.

1. COMPLETELY REMOVE UNUSED ELECTRICAL CONDUCTORS AND CONDUITS TO SOURCE.
2. EXISTING LIGHTING AND RECEPTACLE POWER SYSTEM TO BE REMOVED TO SOURCE. CONDUIT SYSTEM TO REMAIN.
3. REMOVE CORRIDOR LIGHTING AND INSTALL & WIRE (WALL MOUNTED) TEMPORARY CORRIDOR LIGHTING AND EMERGENCY LIGHTING BATTERY UNIT W/ HEADS AS REQUIRED UNTIL CEILINGS COMPLETE. PROVIDE (1) 2 LAMP, T8, 277 VOLT, 4' LIGHT STRIP WITH SHATTER TUBES EVERY 8' ALONG WALL.
4. COMPLETELY REMOVE EXISTING ELECTRICAL EQUIPMENTS, FEEDERS/CONDUITS LOCATED IN THIS AREA.
5. COMPLETELY REMOVE EXISTING LIGHT FIXTURES AND ITS ASSOCIATED WIRING/CONDUITS TO SOURCE.
6. COMPLETELY REMOVE EXISTING 208 VOLT MAIN ELECTRICAL SERVICE EQUIPMENTS FROM THIS ROOM. COORDINATE WITH PHASING DOCUMENTS FOR SCHEDULING AND TIMING.
7. NOT USED
8. NOT USED
9. REMOVE OUTLETS, SWITCHES, PLUGMOLD, WIREMOLD, STARTERS, DISCONNECTS, FIRE ALARM & SECURITY DEVICES, CONDUITS & WIRING ETC. ASSOCIATED WITH RENOVATIONS, BACK TO SOURCE. RELOCATE & REWIRE, AS REQUIRED ALL ELECTRICAL EQUIPMENTS WHICH ARE NOT PART OF THIS RENOVATION.
10. NOT USED
11. COMPLETELY REMOVE IN GROUND FEEDER/CONDUIT SERVING "D WING" TO SOURCE LOCATED IN EXISTING BOILER ROOM.
12. COMPLETELY REMOVE OUTLETS,, PLUGMOLD, WIREMOLD,STARTERS DISCONNECTS, CONDUITS & WIRING, ETC. ASSOCIATED WITH ROOF RENOVATIONS, BACK TO SOURCE. RELOCATE & REWIRE, AS REQUIRED ELECTRICAL EQUIPMENTS WHICH ARE NOT PART OF THIS RENOVATION.
13. COMPLETELY REMOVE EXISTING 4160 TO 208 VOLT MAIN ELECTRICAL SERVICE EQUIPMENTS FROM THIS ROOM. COORDINATE WITH PHASING. COORDINATE WITH UI FOR TRANSFORMERS REMOVAL AND DISPOSAL. COORDINATE WITH UI OWNED EQUIPMENT IN VAULT FOR REMOVAL AND POSSIBLE RETURN.



KEY PLAN - DEMO

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
TUNNEL REMOVALS PLAN - NORTH ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451NBE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By XYZ
Approved By XYZ
Drawing No. ER-100

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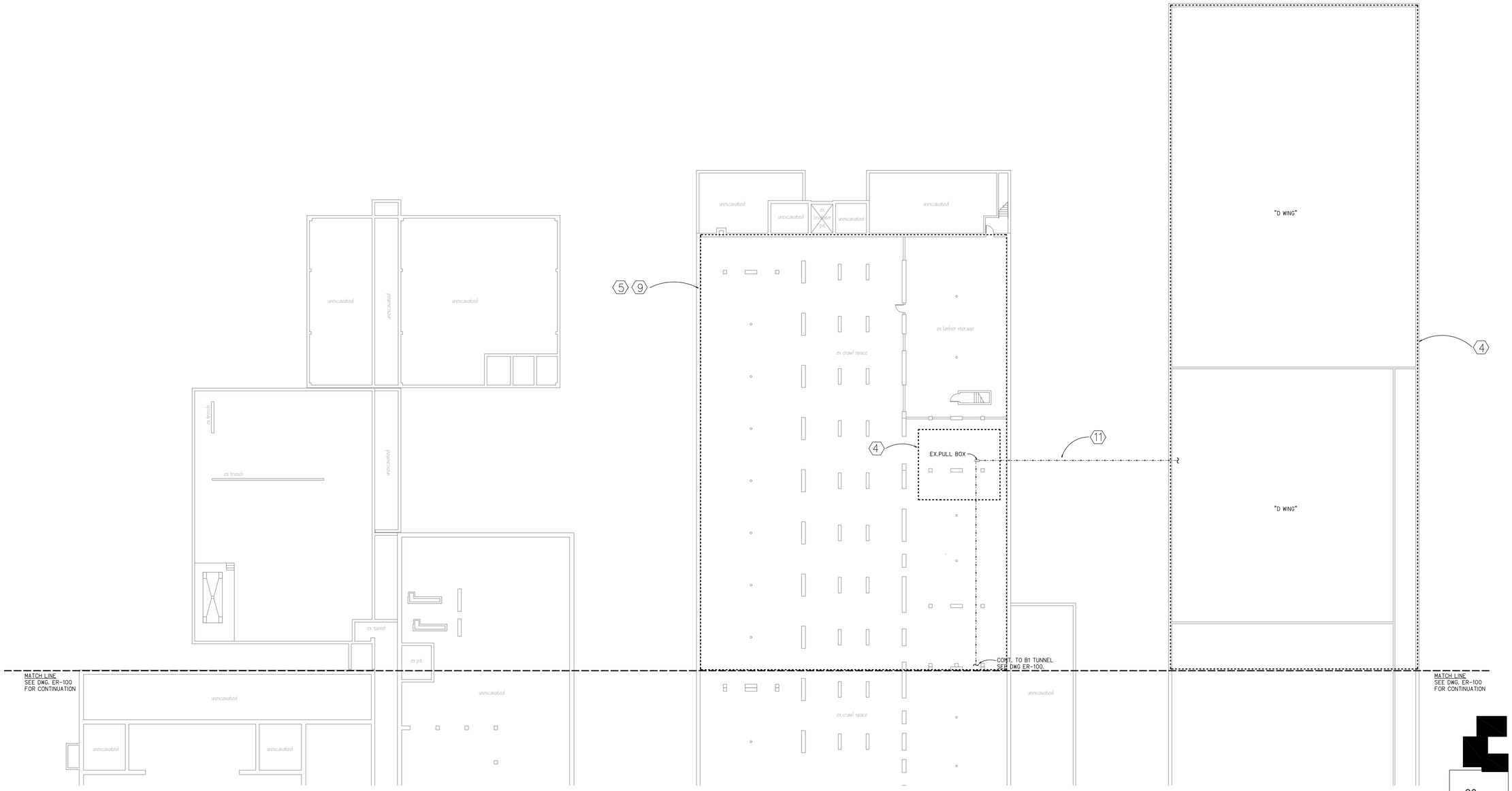
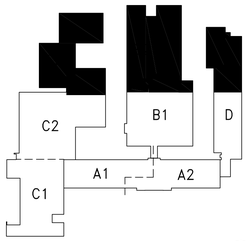
REV:08/29/05 JA W.
P.E.C.0451NBE





KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant
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ph: 203-866-5338 fx: 203-866-3243

Professional Seal & Signature

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 22012
ELECTRICAL

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
TUNNEL REMOVALS PLAN
SOUTH – ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 04515BE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

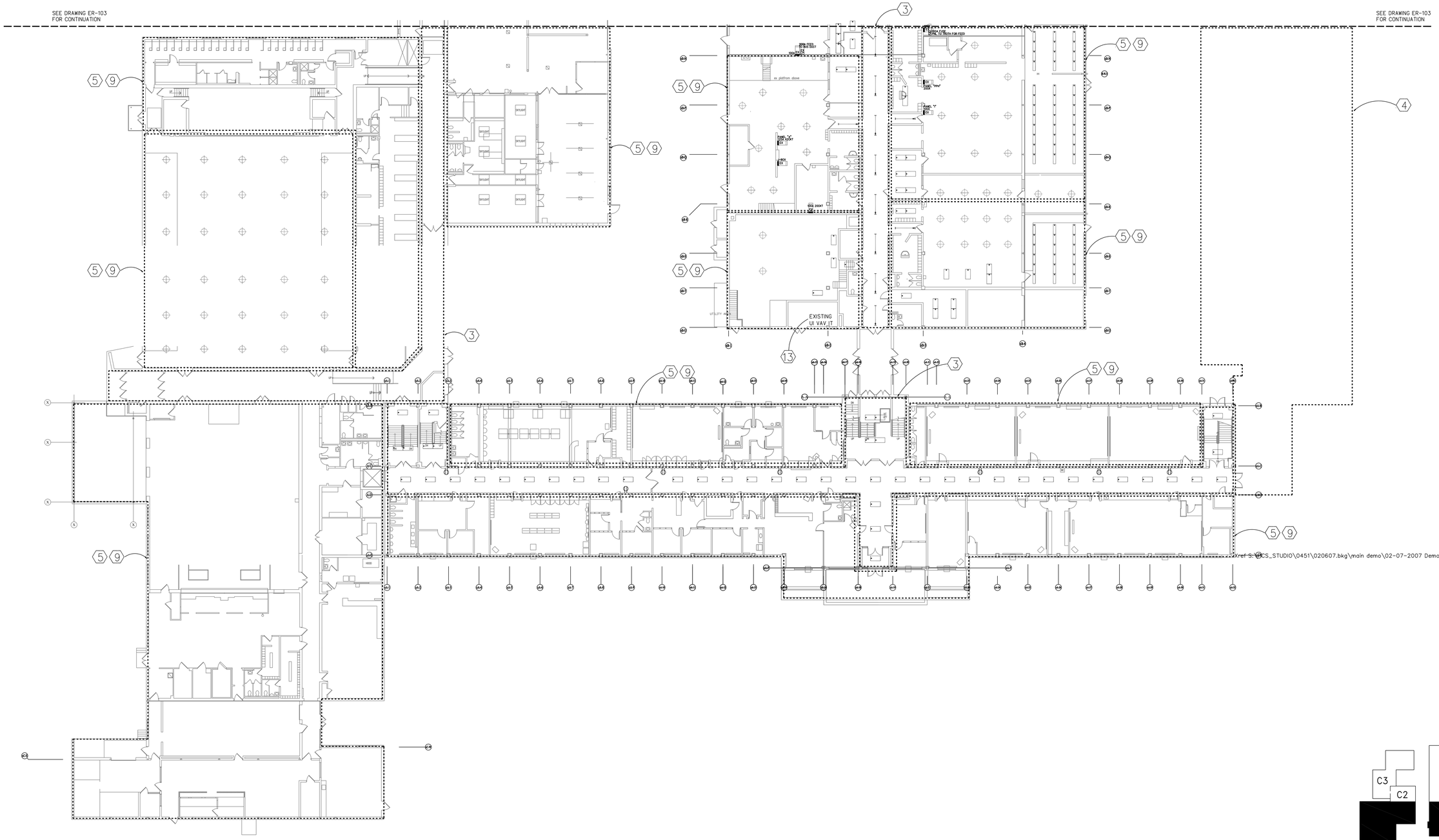
Project No. BI-RT-837

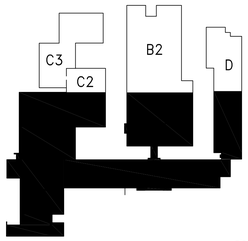
Date 06-18-2012
Scale 1/16" = 1'-0"
Drawn By XYZ
Approved By XYZ
Drawing No. ER-101

FILE:D4511b REV02/01/2007 17:15 FILE:D4511BE REV01/30/2012 17:09

SEE DRAWING ER-103
FOR CONTINUATION

SEE DRAWING ER-103
FOR CONTINUATION





KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-3243	Drawing Title MAIN FLOOR REMOVALS PLAN NORTH – ELECTRICAL REVISIONS Mark / Date / Description	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PAUL C. BYRNE No. 22272 LICENSED PROFESSIONAL ENGINEER ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 0451NME	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604 Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514 Project No. BI-RT-837

Date	06-18-2012
Scale	1/16"=1'-0"
Drawn By	XYZ
Approved By	XYZ
Drawing No.	ER-102

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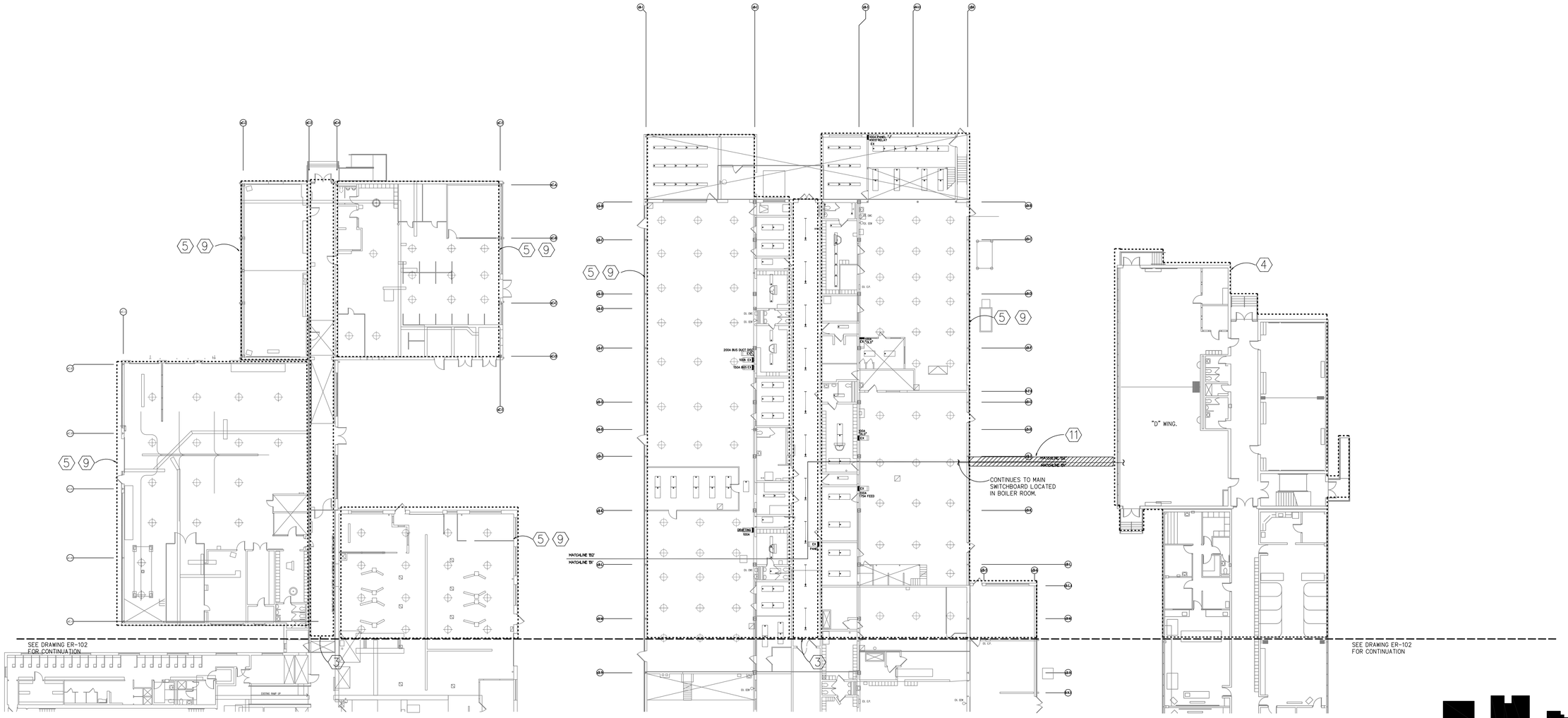

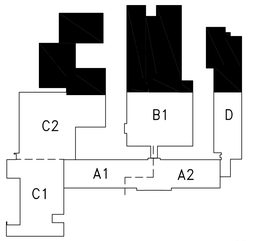

KEY PLAN – DEMO

SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant

AlbertSeborWieber LLC
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31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
MAIN FLOOR REMOVALS PLAN
SOUTH – ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No.
04515ME

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date
06-18-2012

Scale
1/16"=1'-0"

Drawn By
–

Approved By
–

Drawing No.
ER-103

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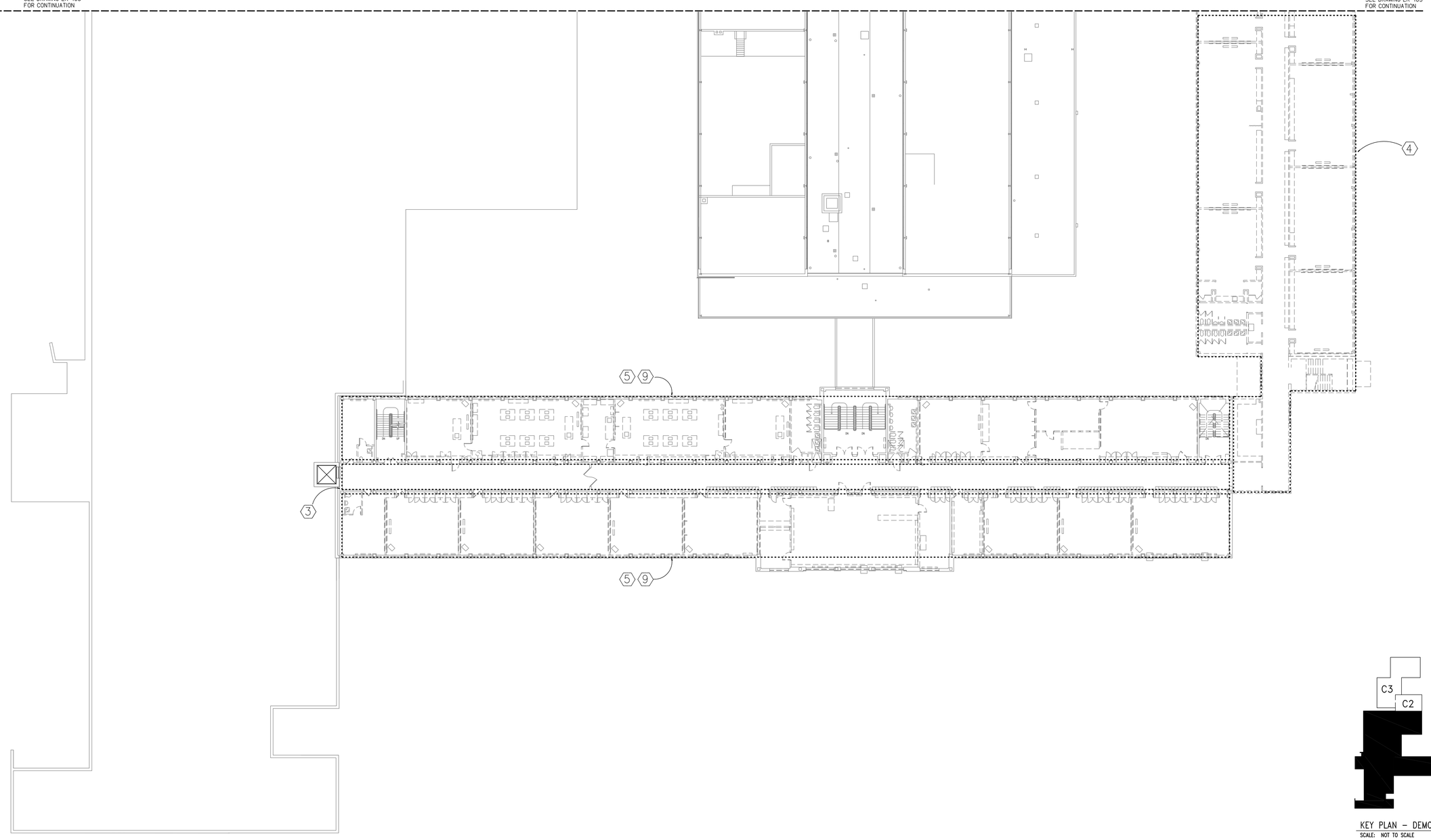
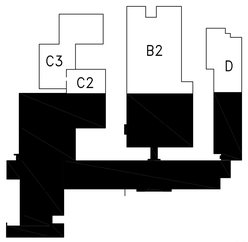
MATCH LINE
SEE DRAWING ER-105
FOR CONTINUATION

MATCH LINE
SEE DRAWING ER-105
FOR CONTINUATION





KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant
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ph: 203-866-5518 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT
PAUL C. RYAN
No. 22417
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
UPPER FLOOR REMOVALS PLAN
NORTH – ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451NUE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By –
Approved By –
Drawing No. ER-104

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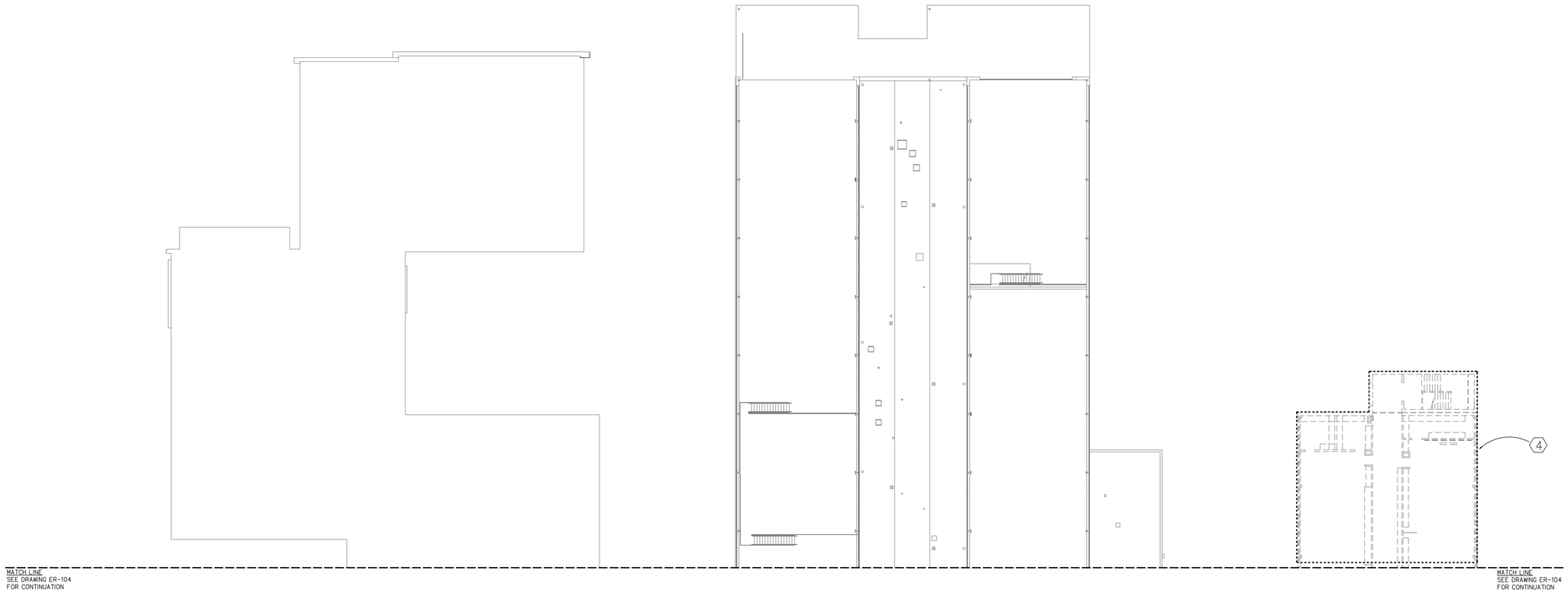

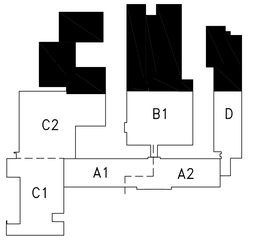

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant
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Consulting Engineers
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
UPPER FLOOR REMOVALS PLAN
SOUTH – ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451SUE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By –
Approved By –
Drawing No. ER-105

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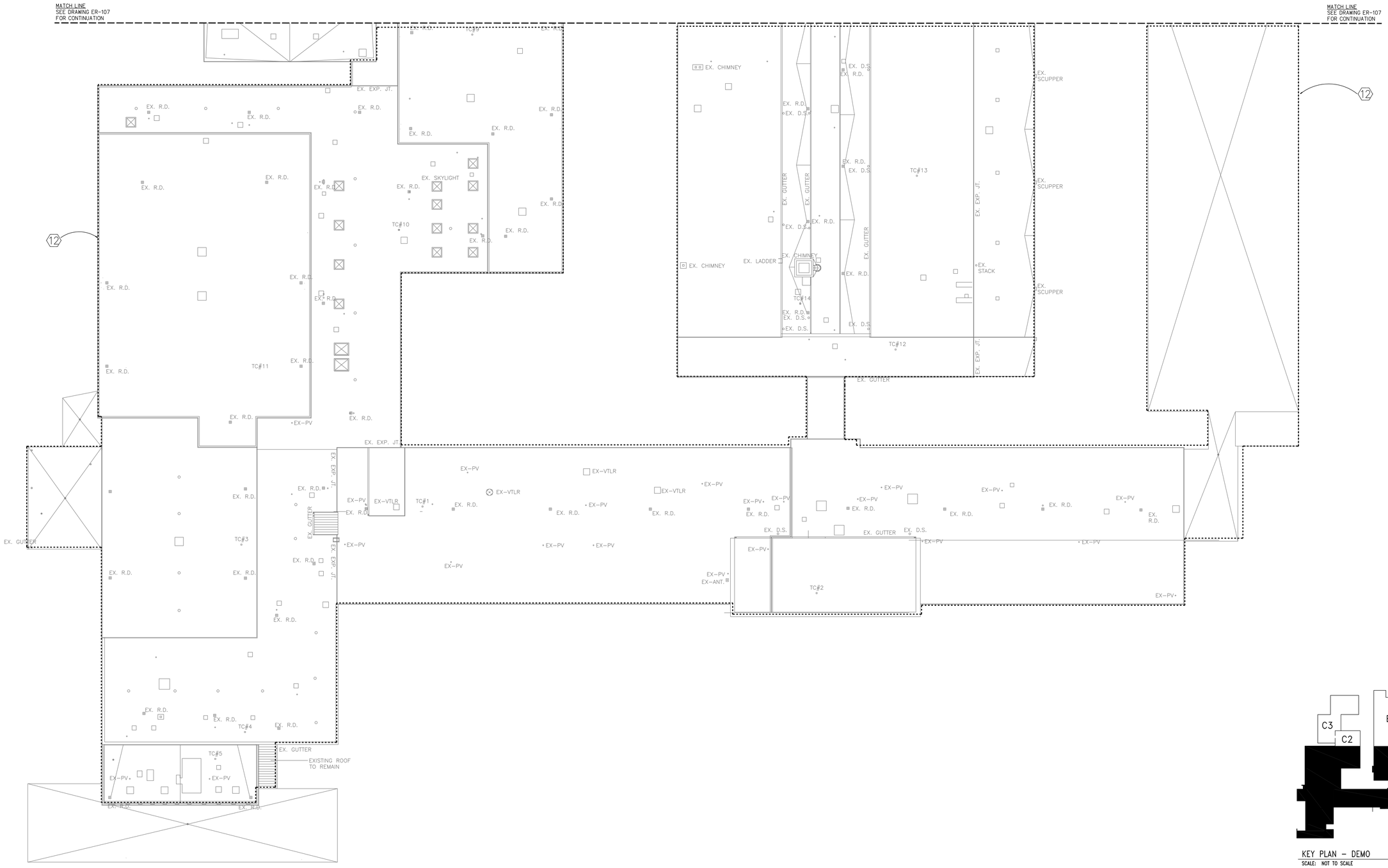

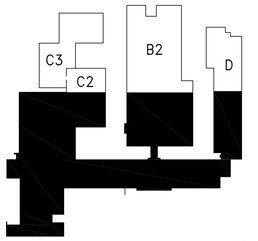

KEY PLAN – DEMO
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

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Professional Seal & Signature
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 22211
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ROOF REMOVALS PLAN
NORTH – ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No.
0451NREE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No.
BI-RT-837

Date 06-18-2012
Scale 1/16"=1'-0"
Drawn By –
Approved By –
Drawing No.
ER-106

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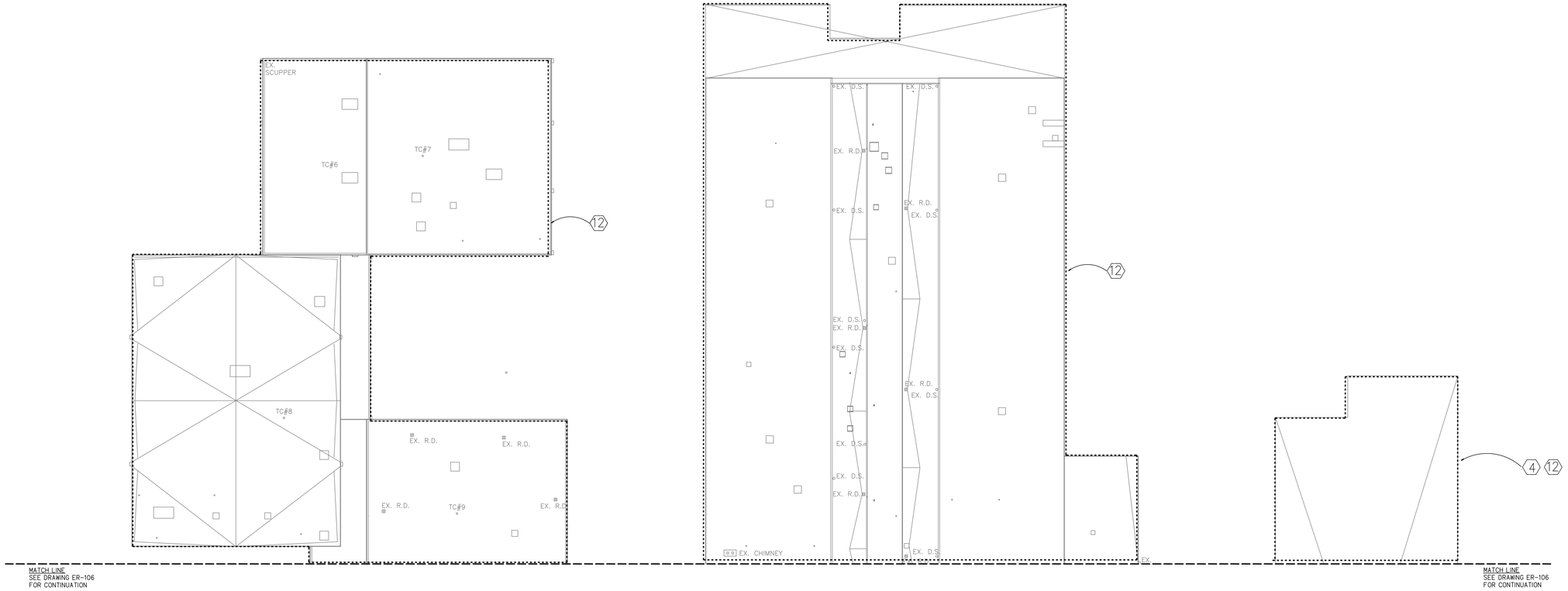

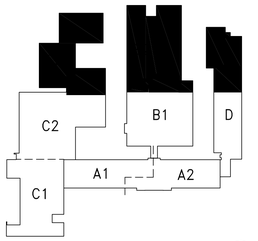

KEY PLAN – DEMO

SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title ROOF REMOVALS PLAN SOUTH – ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22010 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451SREE	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/16"=1'-0"
Drawn By	–
Approved By	–
Drawing No.	ER-107

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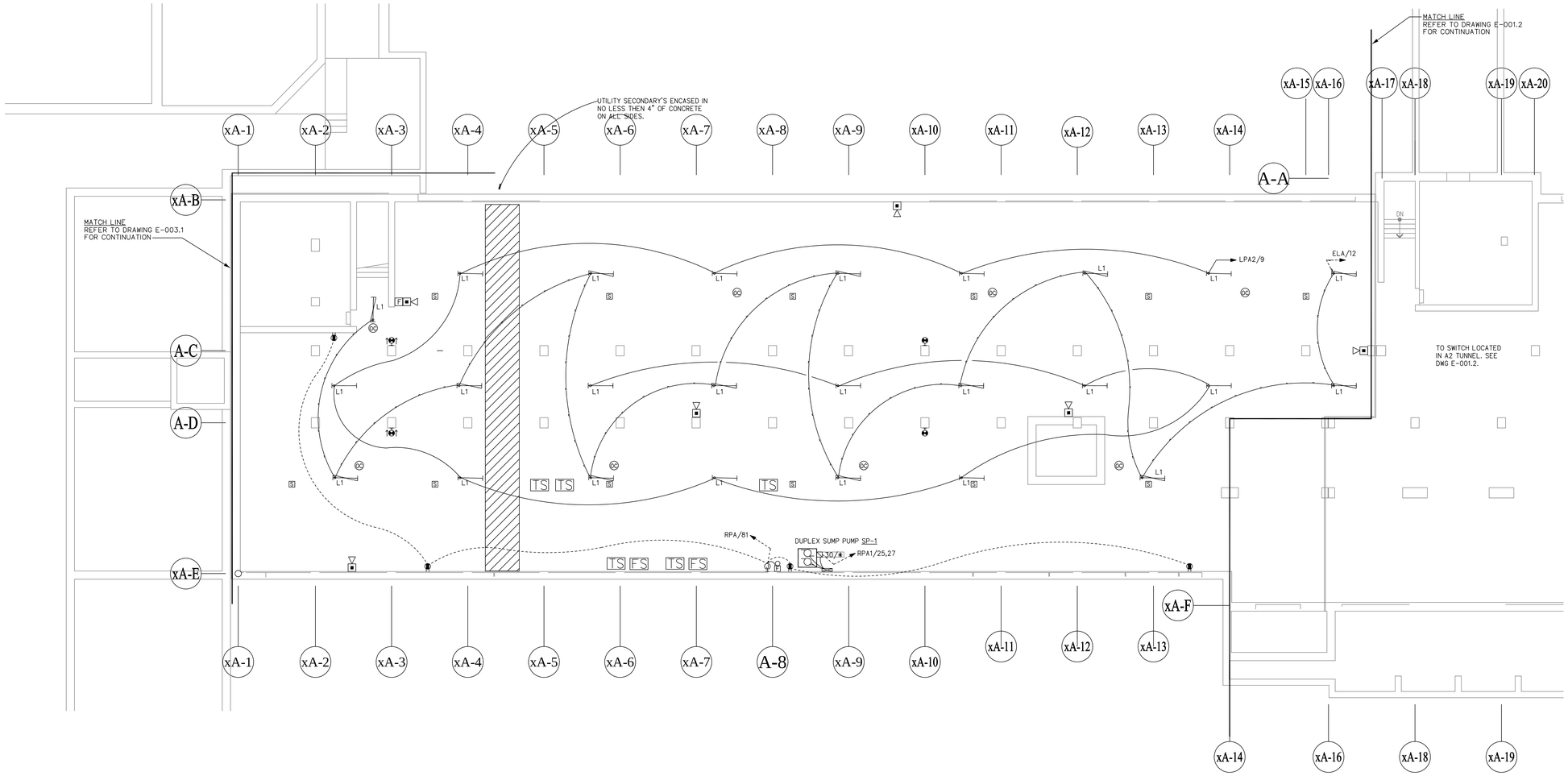

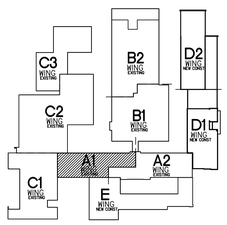

TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5518 fx: 203-866-5243	Drawing Title AREA A1 TUNNEL PLAN – LIGHTING & ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PAUL C. BYRNE No. 20818 LICENSED PROFESSIONAL ENGINEER ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045105E	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	–
Approved By	–
Drawing No.	E-001.1

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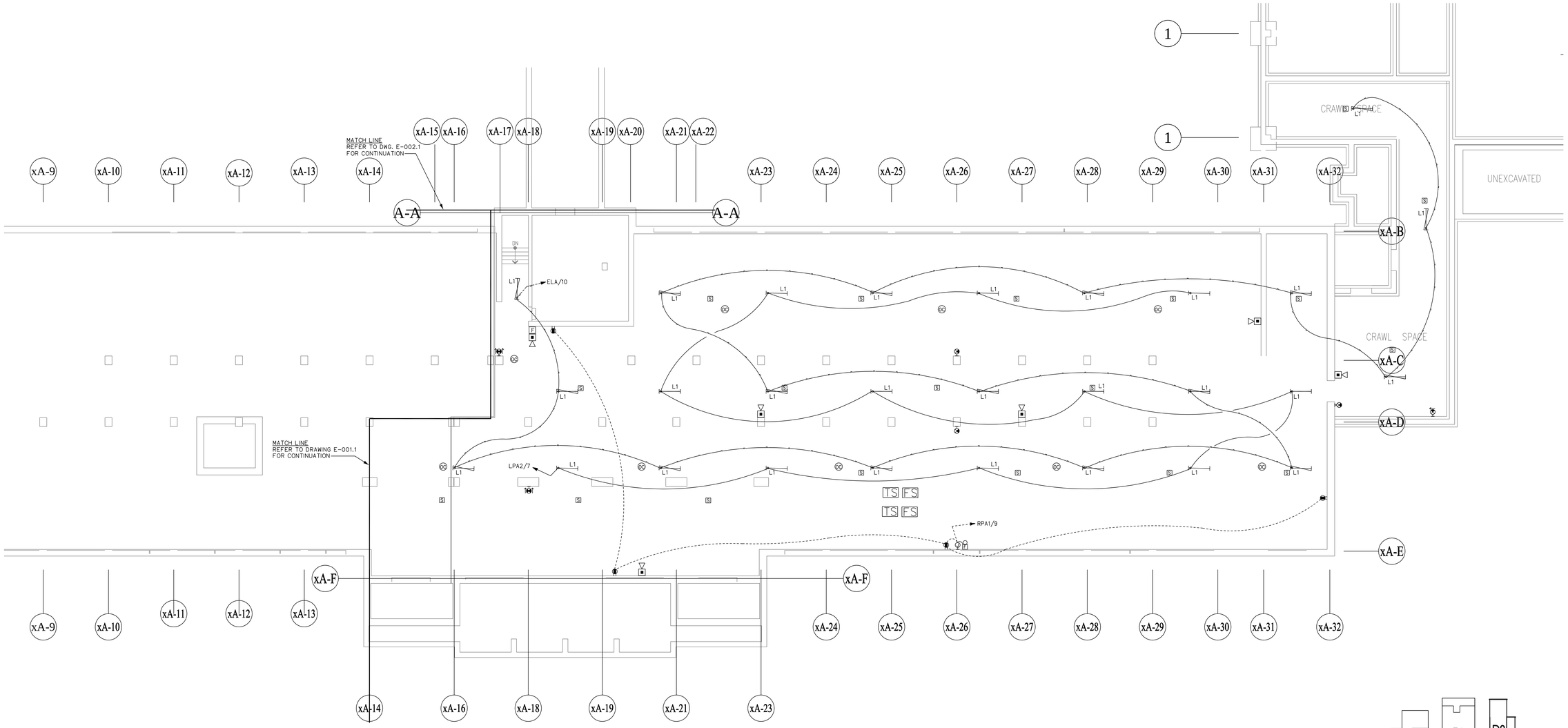

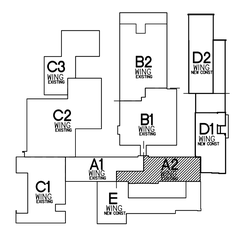

TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant AltieriSeboriWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 TUNNEL PLAN – LIGHTING & ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045103E	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	–
Approved By	–
Drawing No.	E-001.2

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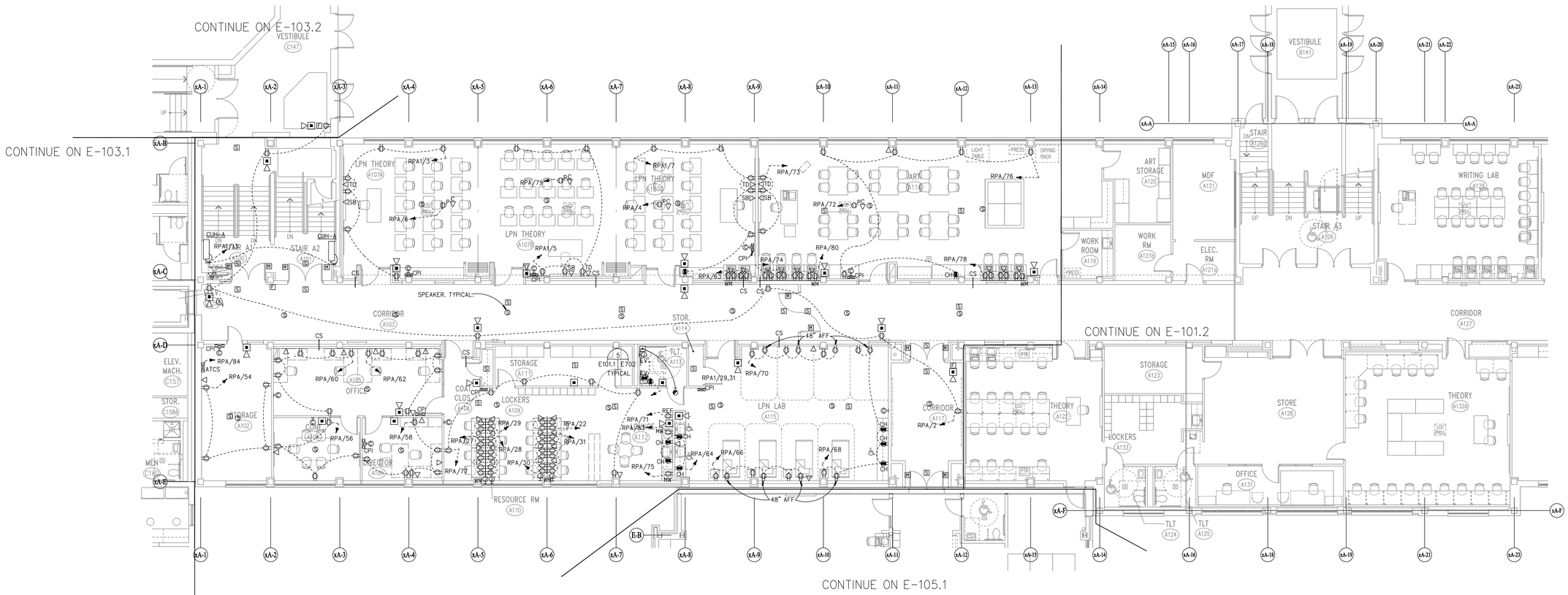
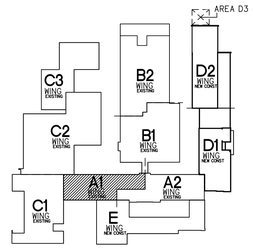




MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. RELOCATE EXISTING LIGHTING AS REQUIRED.
4. RELOCATE EXISTING RECEPTACLES AS REQUIRED.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A1 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045115E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

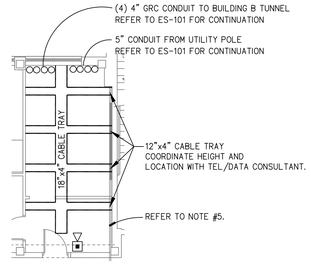
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

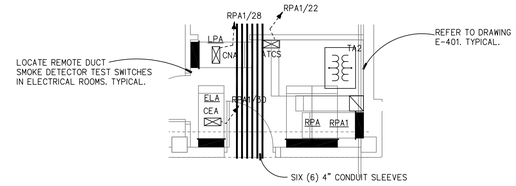
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-101.1

FILE:0451b REV:02/01/2007 17:15 FILE:045115bg REV:04/25/2012 13:16
FILE:045115E REV: 07/13/06 18:33
FILE:045115E REC: 06/25/12 16:06



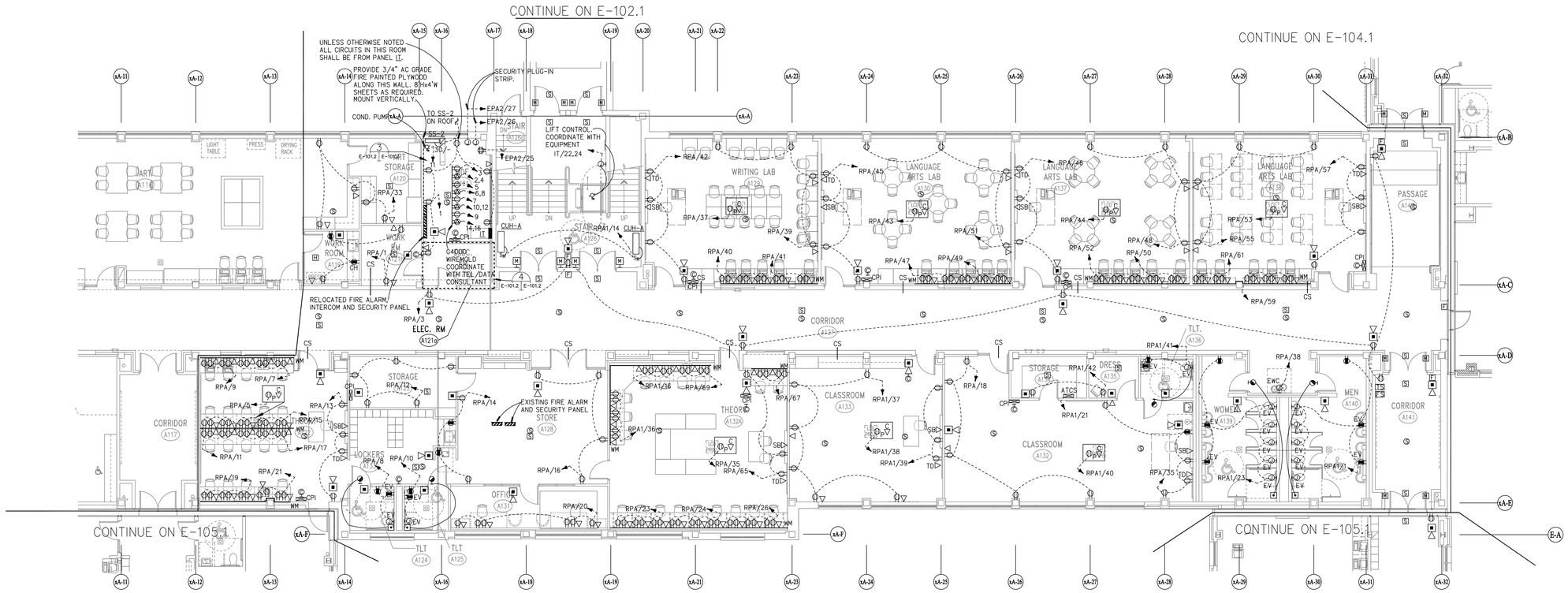
3 CABLE TRAY PLAN ROOM A121

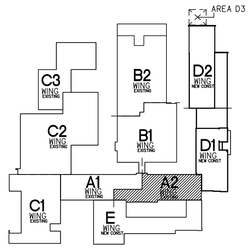
E-101.2 E-101.2 SCALE: 1/8" = 1'-0"



4 ELECTRICAL ROOM A121A

E-101.2 E-101.2 SCALE: 1/4" = 1'-0"





MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. RELOCATE EXISTING LIGHTING AS REQUIRED.
4. RELOCATE EXISTING RECEPTACLES AS REQUIRED.
5. PROVIDE 3/4" PLYWOOD BACKBOARD, 8FT HIGH ON ALL WALL IN MDF A121.

CMR BID DOCUMENTS

Consultant

AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A2 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045113E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By –
Approved By
Drawing No. E-101.2

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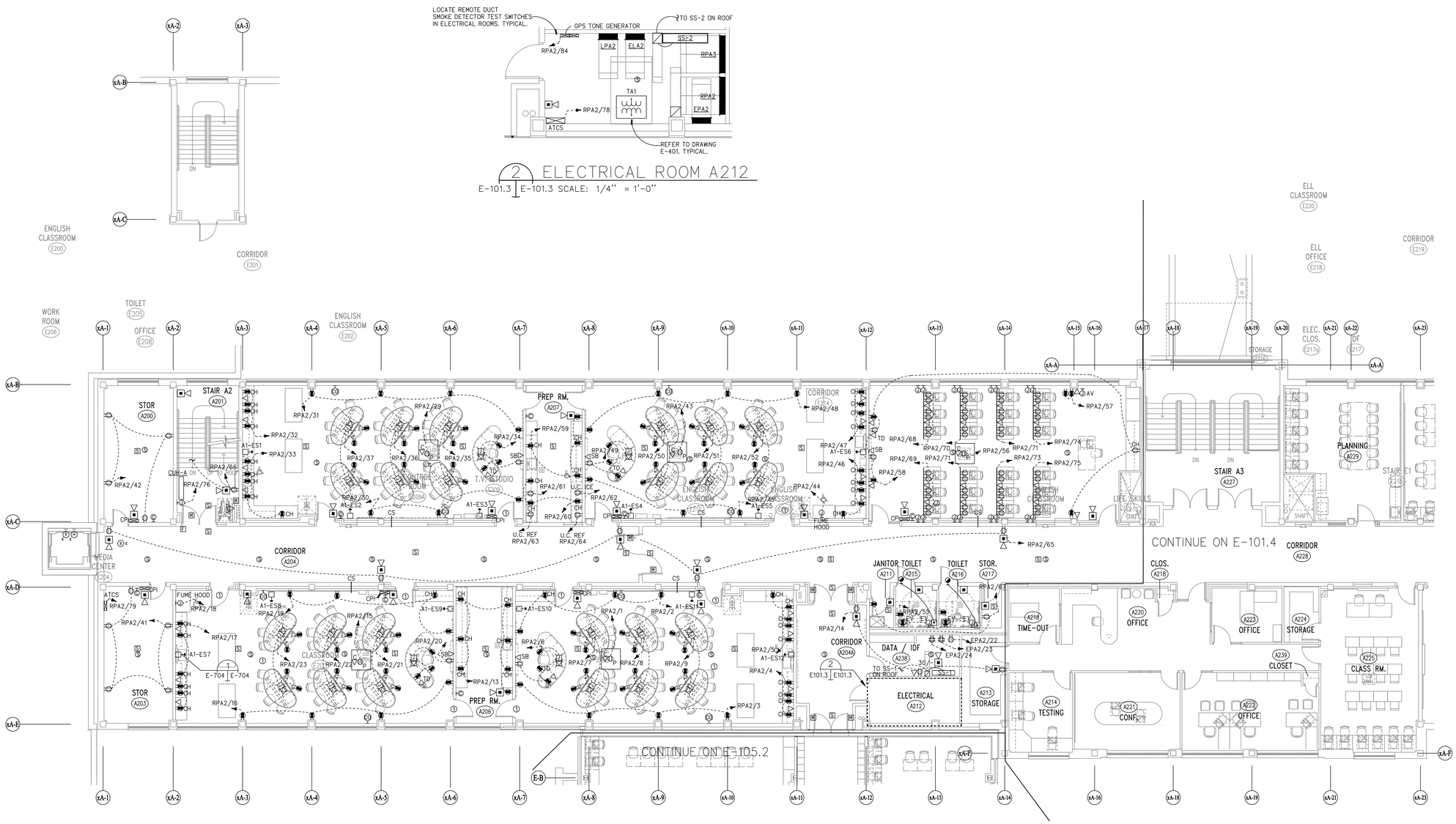
REV:06/29/12 16:49



2 ELECTRICAL ROOM A212

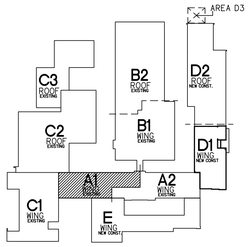
E-101.3 | E-101.3 SCALE: 1/4" = 1'-0"

CONTACTOR SCHEDULE

NAME	ITEM(S) CONTROLED			POLE DESCRIPTION					CONTROL		MAKE AND MODEL #	REMARKS SEE NOTES
	PANEL	CIRCUITS	DESCRIPTION	TOTAL	ACTIVE	SPARE	AMP.	NO/NC	DEVICES	VOLTS		
E209	RPA2	29 THRU 37	EM. SHUT OFF	12	9	3	20	NC	A1-ES1-3	120V	ASCO #918	EM. SHUT OFF
E210	RPA2	43 THRU 52	EM. SHUT OFF	12	10	2	20	NC	A1-ES4-6	120V	ASCO #918	EM. SHUT OFF
E203	RPA2	15 THRU 23	EM. SHUT OFF	12	9	3	20	NC	A1-ES7-9	120V	ASCO #918	EM. SHUT OFF
A208	RPA2	1 THRU 9	EM. SHUT OFF	12	9	3	20	NC	A1-ES10-12	120V	ASCO #918	EM. SHUT OFF

DRAWING NOTES:

1. REFER TO ARCHECTURAL DRAWINGS FOR RECEPTACLE MOUNTING TYPICAL MOUNT RECEPTACLES IN FURNITURE AS DIRECTED BY ARCHITECT.



UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. RELOCATE EXISTING LIGHTING AS REQUIRED.
4. RELOCATE EXISTING RECEPTACLES AS REQUIRED.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A1 UPPER LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045125E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By –
Approved By –
Drawing No. E-101.3

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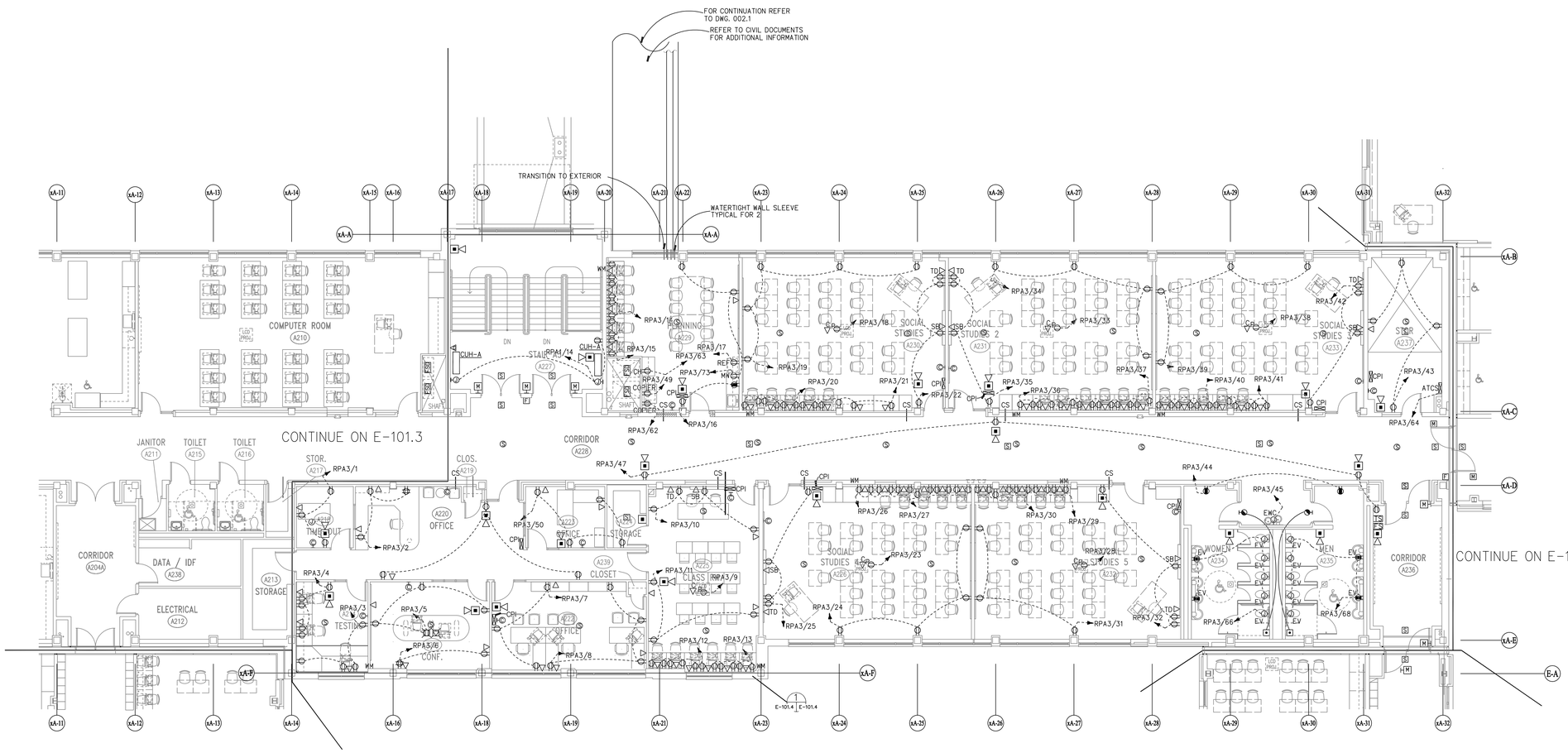

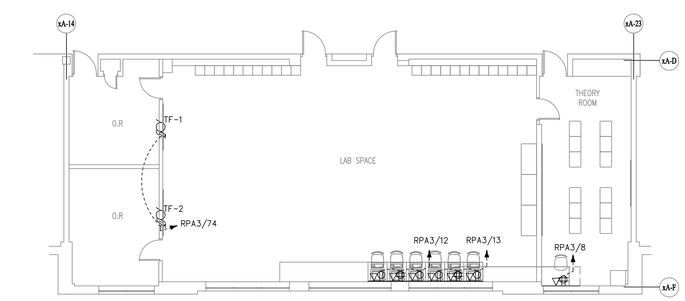

1 PART PLAN – TEMPORARY SURGICAL TECH SUITE

E-101.4 E-101.4

SCALE: 1/8" = 1'-0"

RENOVATE FOR TEMPORARY SURGICAL TECH SUITE, PHASE 1.3

REFER TO DRAWING PH-105 FOR ADDITIONAL INFORMATION AND REQUIRMENTS.

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. RELOCATE EXISTING LIGHTING AS REQUIRED.
4. RELOCATE EXISTING RECEPTACLES AS REQUIRED.

UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AlbieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 UPPER LEVEL POWER	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045123E	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-101.4

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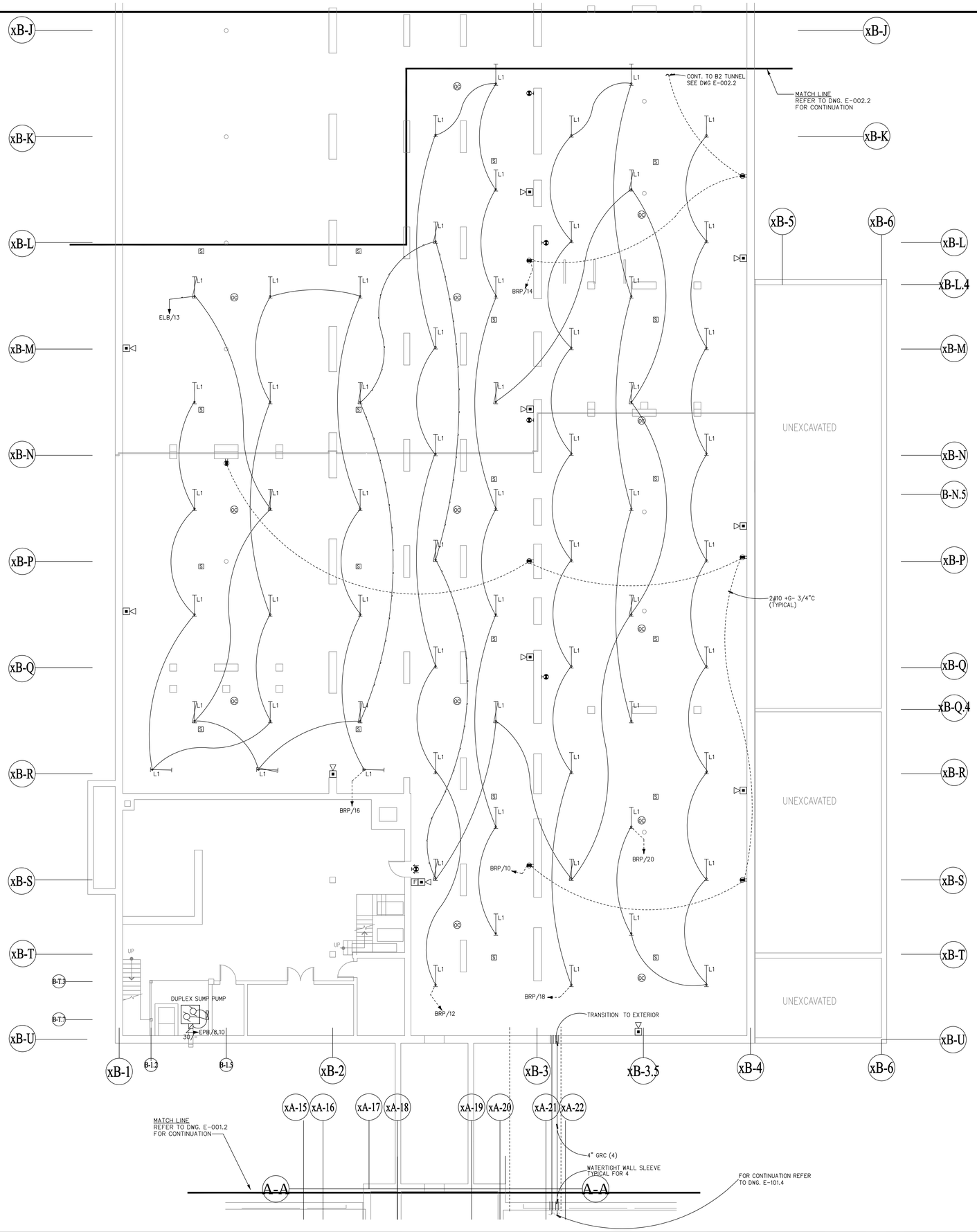
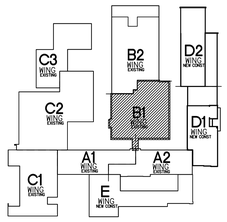


NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA B1 TUNNEL PLAN – LIGHTING & ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT No. 20272 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
CAD No. 045106E		Project No. BI-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By
Drawing No. E-002.1

FILE:0451b REV:02/01/2007 17:15 FILE:045106g REV:02/20/2008 15:17 FILE:045106e REV:06/20/12 16:33

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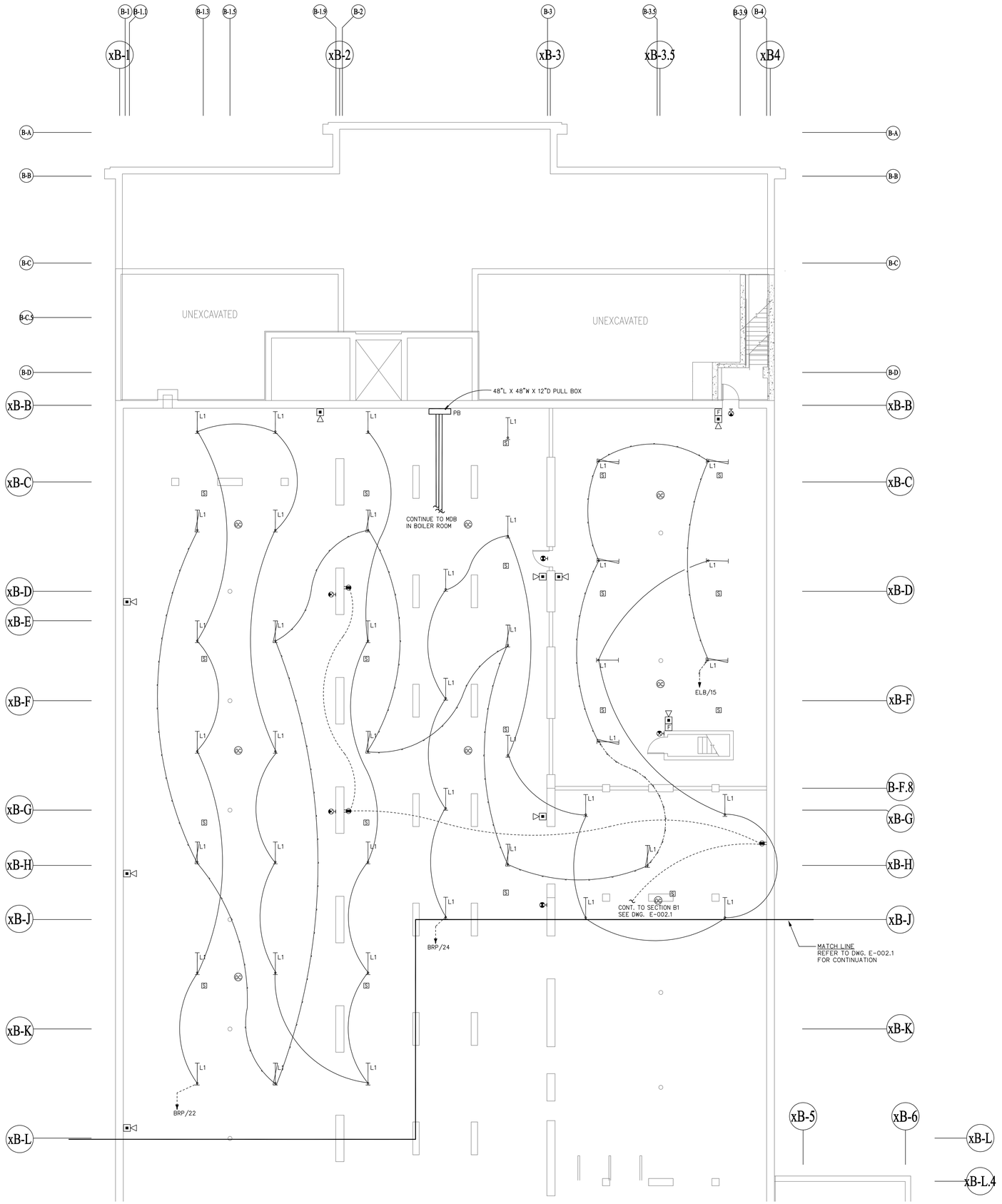
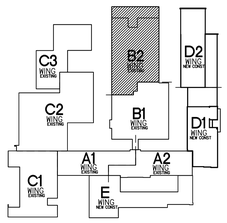


NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA B2 TUNNEL PLAN – LIGHTING & ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 045107E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-002.2

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FILE:045107bg REV:02/26/2008 15:17
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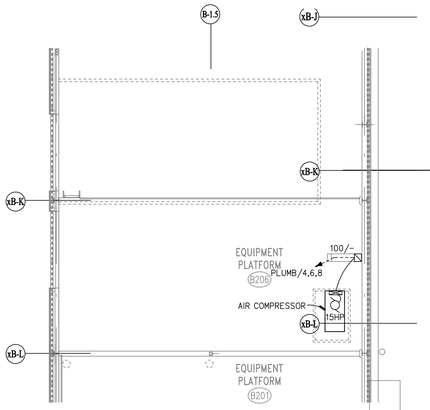
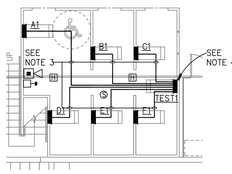


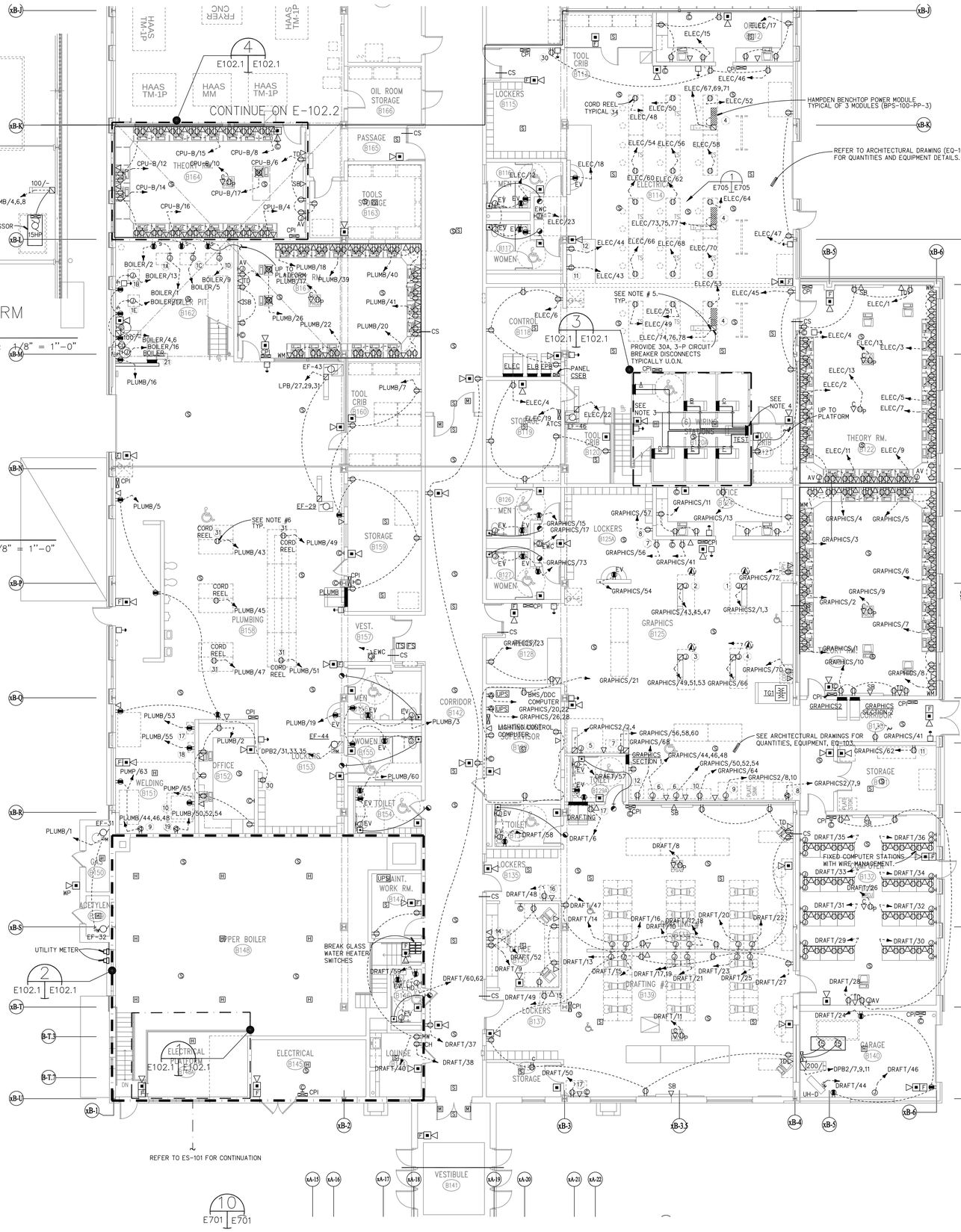
EQUIP. PLATFORM PART PLAN

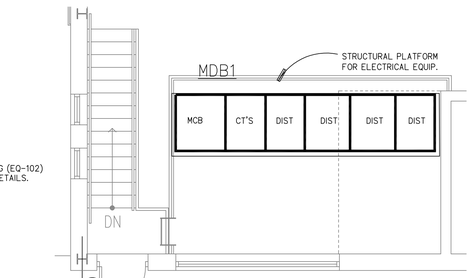
4 E102.1 | E102.1 SCALE: 1/8" = 1"-0"



UPPER LEVEL WIRING STATION

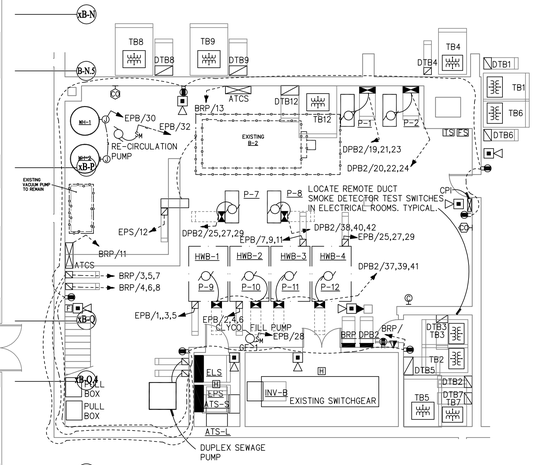
3 E102.1 | E102.1 SCALE: 1/8" = 1"-0"





SERVICE #1 – MAIN ELECTRICAL ROOM B148

1 E102.1 | E102.1 SCALE: 1/4" = 1"-0"



LOWER LEVEL BOILER ROOM AREA

2 E102.1 | E102.1 SCALE: 1/8" = 1"-0"

SHOP EQUIPMENT SCHEDULE – ELECTRICAL SHOP			
ITEM#	DESCRIPTION	CORD CAP TYPES	"SO" TYPE OF CABLE
1.	30"x84" TABLE	–	–
2.	(12) WORK BOOTHS * WOOD STEPS	–	–
3.	CONDUIT STORAGE RACKS	–	–
4.	POWER CONSOLE	NEMA L21-30R NEMA L21-30P	#10-5
5.	–	–	–
6.	STORAGE&TOOL CABINET	–	–
7.	–	–	–
8.	DISCUSSION TABLE	–	–
9.	TOOL BOX RACKS	–	–
10.	–	–	–
◈ 11.	½"DRILL PRESS	–	–
◈ 12.	10" GRINDER	–	–
13.	EMERGENCY DISCONNECT	–	–

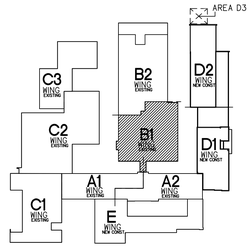
SHOP EQUIPMENT SCHEDULE – GRAPHICS SHOP			
ITEM#	DESCRIPTION	CORD CAP TYPES	TYPE OF CABLE
1.	HAMADA E-47	NEMA L21-30R NEMA L21-30P	#10-5
2.	HAMADA RS-34	NEMA L21-30R NEMA L21-30P	#10-5
3.	HAMADA RS-34	NEMA L21-30R NEMA L21-30P	#10-5
4.	RYOBI PRESS	NEMA L21-30R NEMA L21-30P	#10-5
5.	CHALLENGER PAPER CUTTER	NEMA L21-30R NEMA L21-30P	#10-5
6.	CHALLENGER PAPER DRILL	NEMA L21-30R NEMA L21-30P	#10-5
◈ 7.	BAUM FOLDER	–	–
8.	AFGA IMAGE SETTER/PROCESSOR	–	–
9.	NU-ARC PLATE MAKER	NEMA L21-30R NEMA L21-30P	#10-5
10.	3-M 1124 PROCESSOR	NEMA L21-30R NEMA L21-30P	#10-5
11.	SHRINK WRAP	–	–
12.	STITCHER	–	–

SHOP EQUIPMENT SCHEDULE – PLUMBING SHOP			
ITEM#	DESCRIPTION	CORD CAP TYPES	"SO" TYPE OF CABLE
1A.	BOILER (GAS FIRED)	–	–
1B.	BOILER (GAS FIRED)	–	–
1C.	BOILER (GAS FIRED)	–	–
1D.	BOILER (GAS FIRED)	–	–
1E.	BOILER (GAS FIRED)	–	–
2.	FLOOR MOUNTED TOILETS	–	–
2A.	HUNG TOILETS	–	–
3.	275 GAL. OIL TANK	–	–
4.	LP GAS CYLINDER	–	–
5.	HUNG LAVATORY	–	–
6.	WELDING CURTAIN	–	–
7.	PIPE RACK	–	–
8.	HUNG URINALS	–	–
9.	WELDING BENCH	NEMA 15-60R NEMA 15-60P	#6-4
10.	EXHAUST HOOD	–	–
11.	WORK BENCH	–	–
12.	TOOL STORAGE CABINET	–	–
13.	HOT&COLD WATER SHUT OFF VALVE	–	–
14.	SANITARY VALVE W/BACKFLOW PREVENTER	–	–

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. PROVIDE A 60A FEED (3#6+G) TO EACH SUB PANEL A THROUGH E AND EACH SUB PANEL A2 THROUGH E2.
   PROVIDE SIX 1-PHASE 20 POLE CIRCUIT BREAKER PANELS.
   PROVIDE TWO OF THE SIX PANELS WITH 200A MAIN BREAKERS.
   PROVIDE ONE OF THE SIX PANELS WITH 200A MAIN LUGS.
   PROVIDE TWO OF THE SIX PANELS WITH 100A MAIN BREAKERS.
   PROVIDE ONE OF THE SIX PANELS WITH 100A MAIN LUGS.
   IN EACH OF THE PANELS PROVIDE THE FOLLOWING ITEMS:
   ONE TWO POLE 30A BREAKER, TWO 15A ONE POLE BREAKER, TWO 20A ONE POLE BREAKERS, GROUND BAR, #2 TO GROUND LUG ADAPTER.
4. PROVIDE ONE 3-PHASE 100A PANEL WITH SIX 60A TWO POLE BREAKERS FOR SUB PANELS A THROUGH E. PROVIDE 100A MAIN BREAKER FOR PANEL TEST AND TEST1.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT DETAILS.
6. FOR CORD REEL WIRING REFER TO DETAILS ON DRAWING E-705. TYPICAL FOR ALL CORD REELS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORD CAP TYPES.
7. REFER TO DETAILS ON DRAWING E-705 FOR WIRING DETAILS. TYPICAL. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORD CAP TYPES.
8. REFER TO DETAILS ON DRAWING E-705 FOR WIRING DETAIL FOR ALL JUNCTION BOX FED EQUIPMENT CONNECTIONS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORP CAP TYPES. TYPICAL.

◈ COORDINATE THE LOCATION OF THESE EQUIPMENTS WITH OWNER AS REQUIRED.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AlbieriSeborWieber LLC Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22077

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: AREA B1 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045116E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

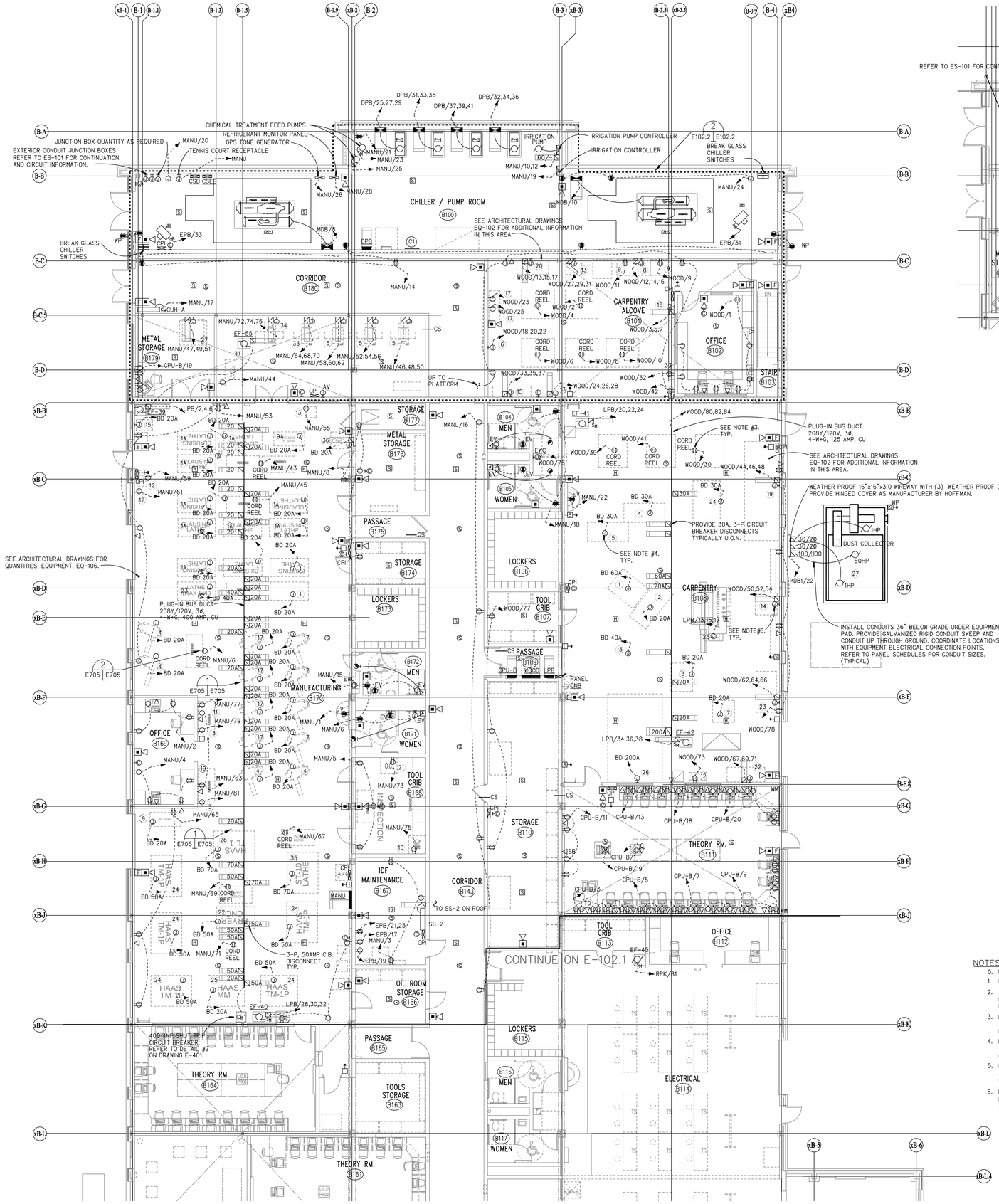
Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

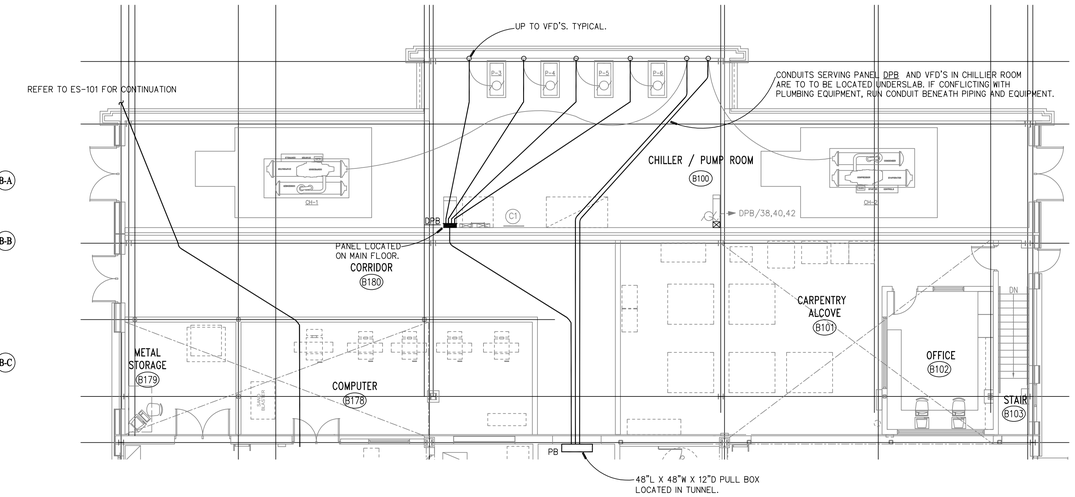
Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By –
Approved By –
Drawing No. E-102.1

FILE:045116 REV:02/01/2007 17:15
FILE:045116E REV:06/28/08 19:03
FILE:045116E REV:06/28/08 19:03





2 E102.2 | E102.2 "B WING" NEW ADDTITION
UNDER SLAP CONDUIT LAYOUT.

SHOP EQUIPMENT SCHEDULE - CARPENTRY SHOP

ITEM#	DESCRIPTION	CORD CAP TYPES	TYPE OF CABLE
1	30" PLANER	–	–
2	16" JOINTER	–	–
3	RIP SAW	–	–
4,5	10" TABLE SAW (2)	–	–
6	20" BAND SAW (1)	NEMA L21-20R NEMA L21-20P	#12-5
7	27" BAND SAW (1)	–	–
8	MORTISER (1)	–	–
9	DRILL PRESS (2)	–	–
10	AIR COMPRESSOR	–	–
11	HORIZONTAL BORING MACHINE	–	–
12	PEDESTAL GRINDER	–	–
13	SHAPER	–	–
14	16" RADIAL ARM SAW	NEMA L21-30R NEMA L21-30P	#10-5
15	COPY LATHE	NEMA L21-20R NEMA L21-20P	#12-5
16	OSCILLTING SPINDLE SANDER	NEMA L21-20R NEMA L21-20P	#12-5
17	SCROLL SAWS (2)	–	–
18	BENCHES & VICES	–	–
19	VERTICAL PANEL SAW	NEMA L21-20R NEMA L21-20P	#12-5
20	8" MEDIUM DUTY JOINTER	NEMA L21-20R NEMA L21-20P	#12-5
21	DISK SANDER 20SD	NEMA L21-20R NEMA L21-20P	#12-5
22	HORIZONTAL EDGE SANDER	NEMA L21-30R NEMA L21-30P	#10-5
23	UNQUE DOOR MACHINE	–	–
24	37" WIDE BELT SANDER	NEMA L21-20R NEMA L21-20P	#12-5
25	5 SPINDLE MOULDER	NEMA L21-30R NEMA L21-30P	#12-5
26	CNC ROUTER	NEMA L21-30R NEMA L21-30P	#10-5
27	DUST COLLECTOR	–	–

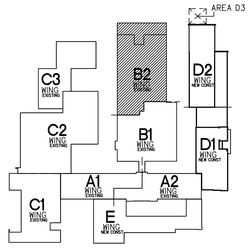
SHOP EQUIPMENT SCHEDULE - MANUFACTURING SHOP

	ITEM#	DESCRIPTION	CORD CAP TYPES	"SO"TYPE OF CABLE
◈	1	MANUAL LATHES	NEMA L21-30R NEMA L21-30P	#10-5
◈	1A	MANUAL LATHES	NEMA L21-30R NEMA L21-30P	#10-5
	3	CNC BENCH MILLS	–	#8-5
	4	(2) AXIS CNC MILL	–	#8-5
	5	SURFACE GRINDER	–	#8-5
◈	6	(3) AXIS CNC MILL	NEMA L21-30R NEMA L21-30P	#10-5
	7	MASTER CAM	–	–
◈	8	EDM MACHINE	NEMA L21-30R NEMA L21-30P	#10-5
◈	9	BAND SAW	NEMA L21-30R NEMA L21-30P	#10-5
	10	CMM	–	–
	11	CNC BENCH LATHE	–	–
	12	7" PEDESTAL GRINDER	NEMA L5-20R NEMA L5-20P	#12-3
◈	13	10" PEDESTAL GRINDER	NEMA L5-20R NEMA L5-20P	#12-3
◈	14	HYDRAULIC PRESS	NEMA L21-30R NEMA L21-30P	#10-5
◈	15	15" DRILL PRESS 2/VISE	–	–
◈	16	HEAT TREAT	NEMA L21-30R NEMA L21-30P	#10-5
◈	17	VERTICAL MILLING MACHINE	NEMA L21-30R NEMA L21-30P	#10-5

NOTES:

0. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
1. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT DETAILS.
2. ALL "BD 50A" HOMRUNS WILL BE WIRED TO A 3-P, 50A CIRCUIT BREAKER LOCATED AT THE BUS DUCT. ALL "BD 20A" HOMRUNS WILL BE WIRED TO A 1-P, 20A CIRCUIT BREAKER LOCATED AT BUS DUCT.
3. FOR CORD REEL WIRING REFER TO DETAILS ON DRAWING E-705. TYPICAL FOR ALL CORD REELS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORD CAP TYPES.
4. REFER TO DETAILS ON DRAWING E-705 FOR WIRING DETAILS. TYPICAL. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORD CAP TYPES.
5. REFER TO DETAILS DRAWING E-705 FOR WIRING. TYPICAL FOR ALL 50 AMP CIRCUIT BREAKER FED EQUIPMENTS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE.
6. REFER TO DETAILS ON DRAWING E-705 FOR WIRING DETAIL FOR ALL JUNCTION BOX FED EQUIPMENT CONNECTIONS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORP CAP TYPES. TYPICAL.

◈ COORDINATE THE LOCATION OF THESE EQUIPMENTS WITH OWNER AS REQUIRED.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS LICENSED PROFESSIONAL ENGINEER No. 22078

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA B2 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045117E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-102.2

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REV:06/20/12 15:45
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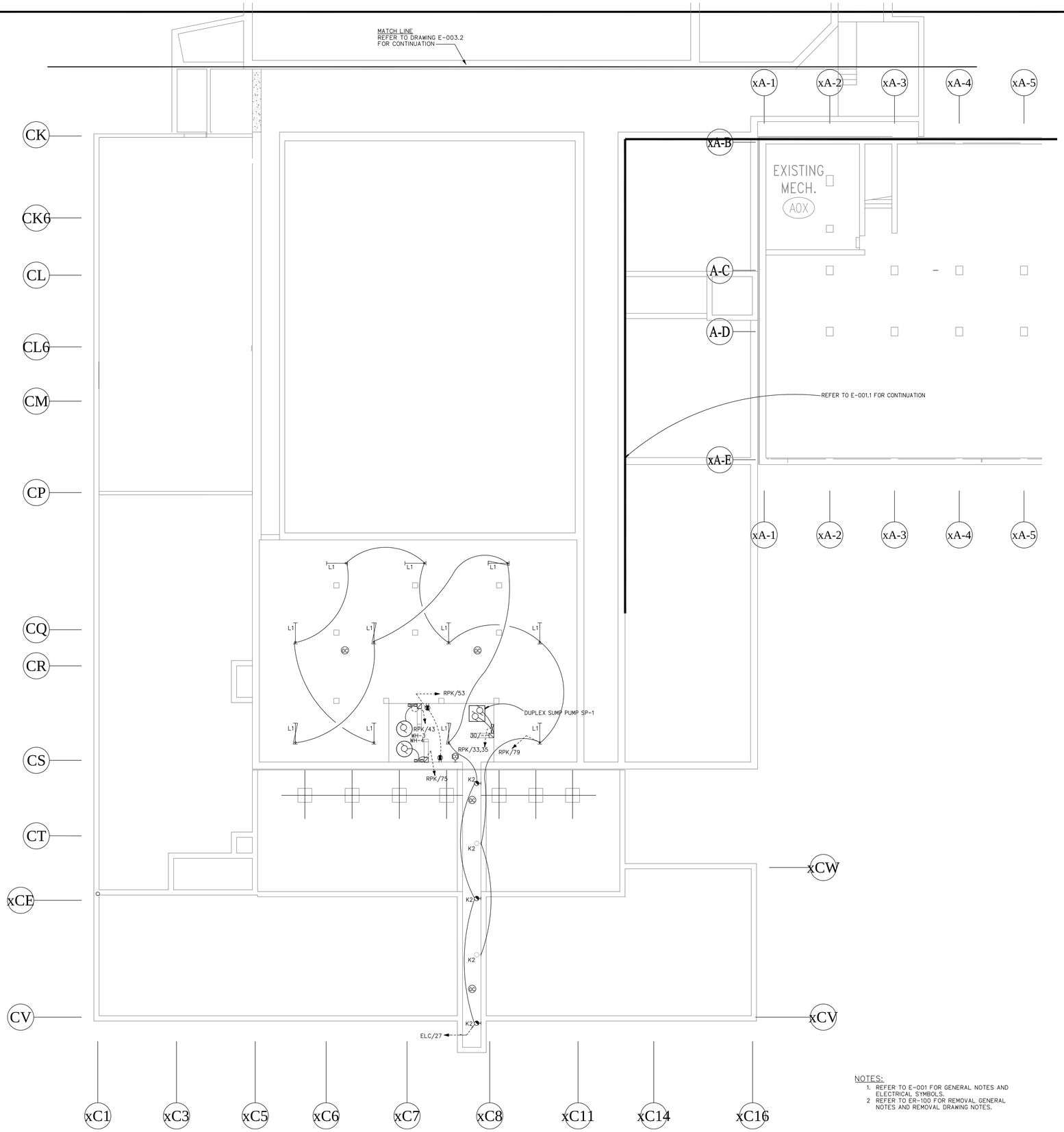

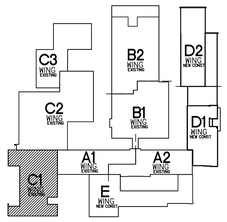

TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA C1 TUNNEL PLAN – LIGHTING & ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
	REVISIONS Mark / Date / Description	
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22010 ORIGINAL SEAL AND SIGNATURE IS BLUE		Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
CAD No. 045108E		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	–
Approved By	–
Drawing No.	E-003.1

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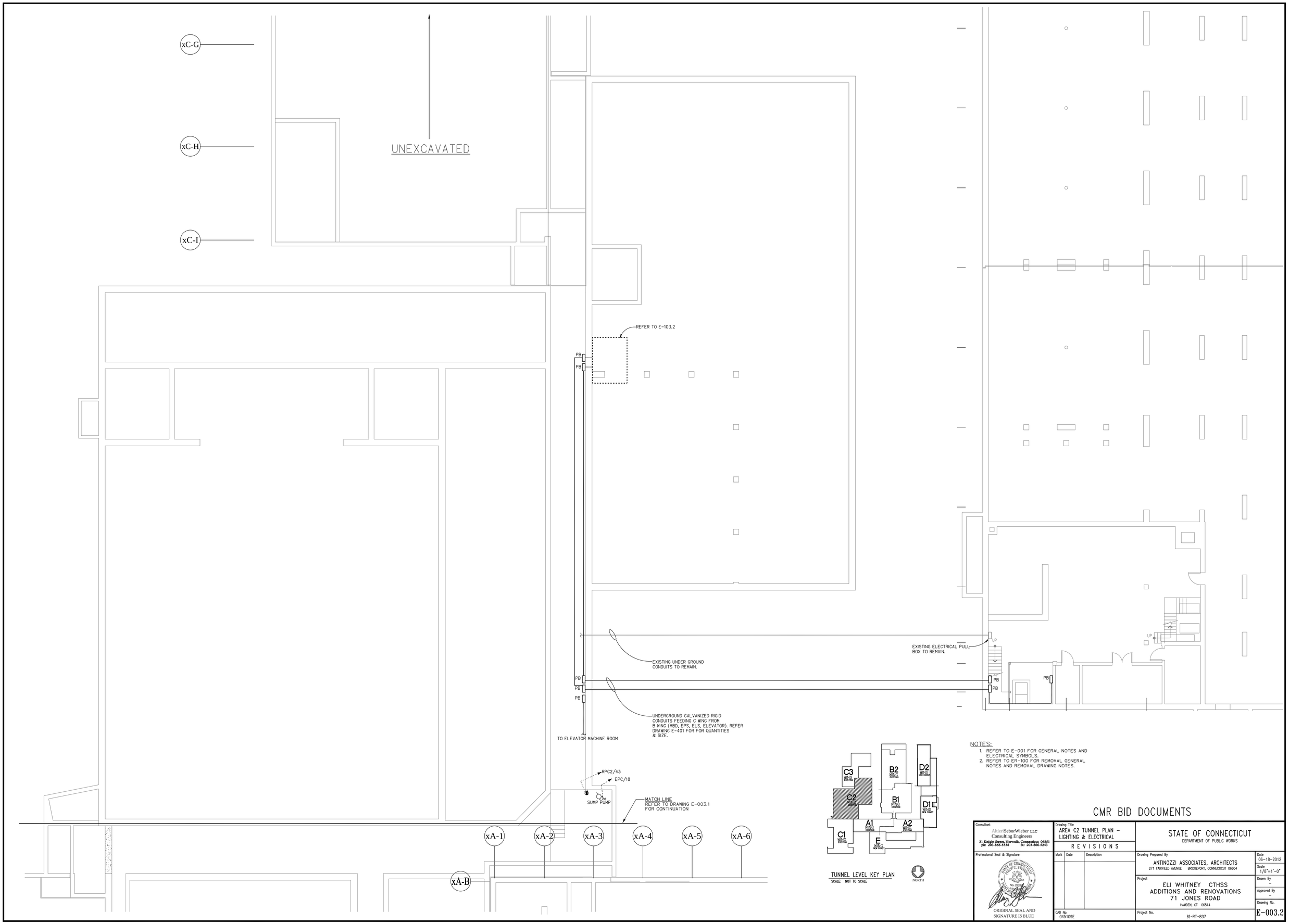

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 TUNNEL PLAN – LIGHTING & ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 045109E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-003.2

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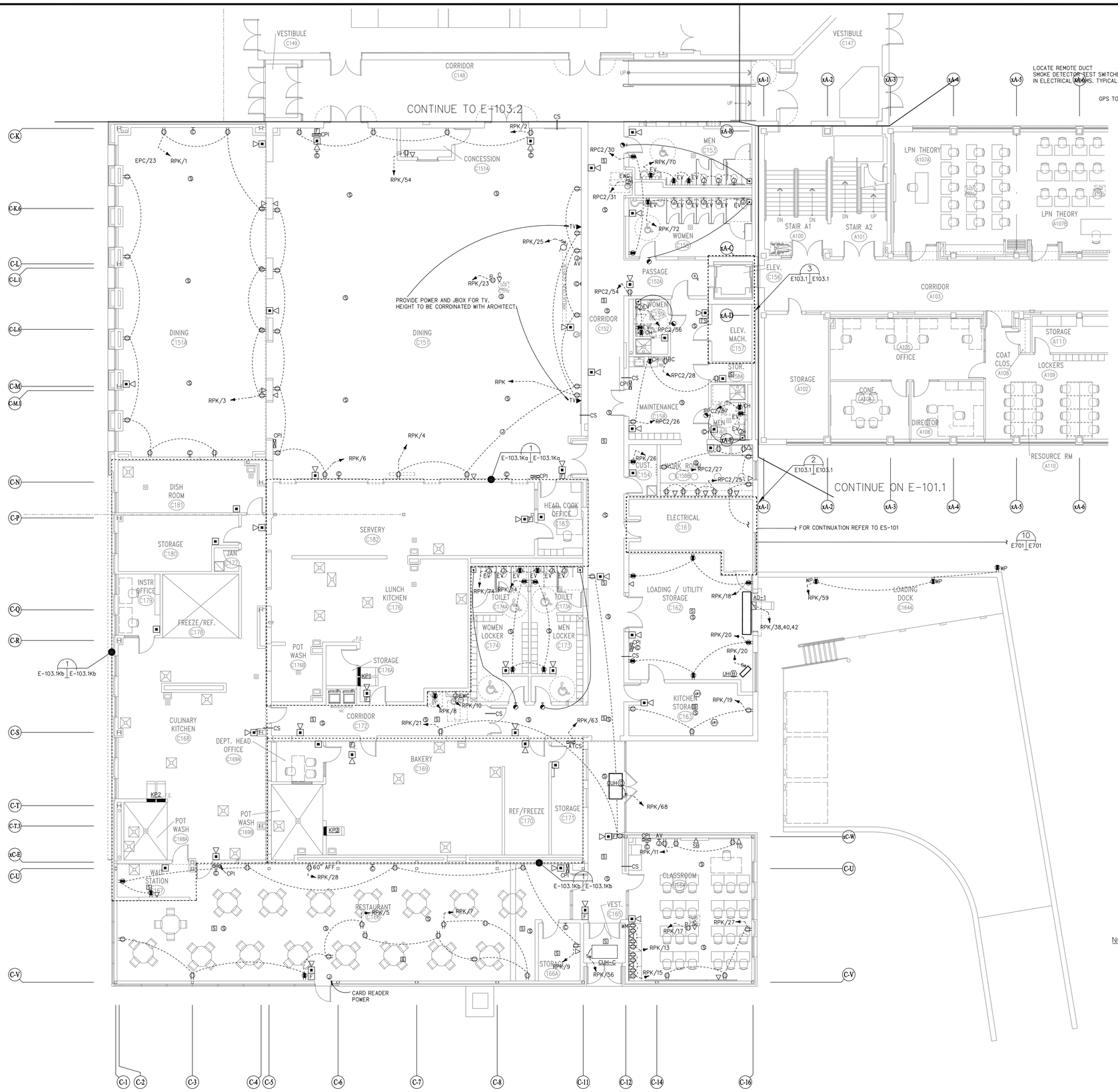
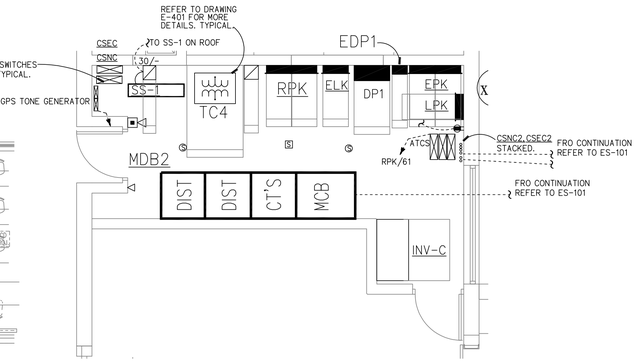
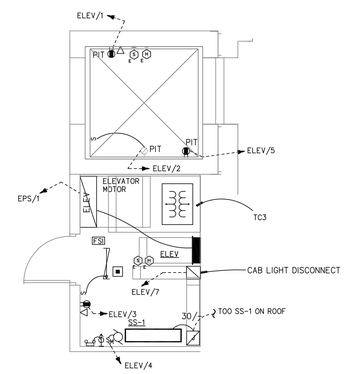




2 SERVICE #2 - ELECTRICAL ROOM C161

E-103.1 E-103.1 SCALE: 1/4" = 1'-0"

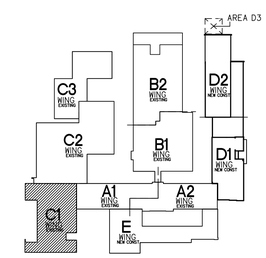


3 ELEVATOR ROOM C157

E-103.1 E-103.1 SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5318 fx: 203-866-5243	Drawing Title: AREA C1 MAIN LEVEL POWER	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PROFESSIONAL ENGINEER, ROBERT C. BYRNE, No. 22812, LICENSED; ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045118E	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. B1-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: -
Approved By: -
Drawing No.: E-103.1

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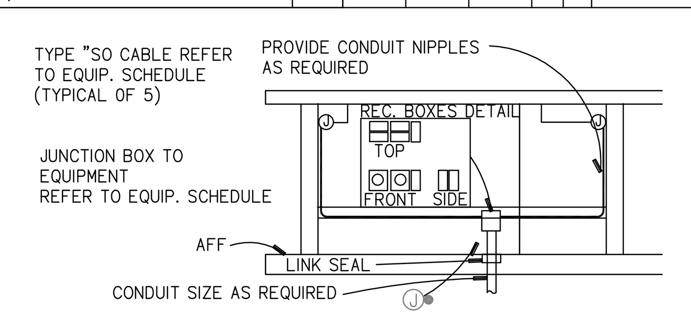
FILE:045118E REV07/14/08 14:26
REV08/20/12 16:14
FILE:045118E

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HP	KW	AMPS	PLUG	DIRECT	VOLTS	PHASE	NEMA RECEPTACLE TYPE AND PLUG	"SO" TYPE OF CABLE	EQUIPMENT REMARKS
	LUNCH KITCHEN AREA											
L1	POT WASH SINK	1										
L2	SLOTTED OVERSHELF, WALL MOUNT	1										
L3	S.S. CHEMICAL CABINET	1										
L4	SINK, HAND, WALL MOUNT	2										
L5	DRYING RACK, PORTABLE	1										
L6	SHELVING, STORAGE	LOT										
L7	HOSE REEL WITH GUN, UNDERMOUNT	1										
L8	WALK-IN COOLER	1			4.0		X	120	1	L5-20R, L5-20P	#12-3	
L9	REFRIG. TO ITEM #L8	1	0.75				X	208	1	–	–	WEATHER PROOF DISCONNECT
L10	WALK-IN FREEZER	1			8.7		X	208	1			
L11	REFRIG. TO ITEM #L10	1	2.0				X	208	1	L14-20R, L14-20P	#12-4	
L12	SHELVING, STORAGE, PORTABLE	LOT								–	–	WEATHER PROOF DISCONNECT
L13	PREP TABLE	1			20.0	X		120	1			
L14	HOSE REEL WITH GUN, UNDERMOUNT	1								5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L15	DISPOSER, GARBAGE	1	3.0		8.8		X	208	3			
L16	OVERSHELF, WALL MOUNT	1								L21-20R, L21-20P	#12-5	
L17	CUTTER, VEGETABLE	1	1.0		7.5	X		120	1	–		
L18	SLICER, FOOD	1	0.5		6.0	X		120	1	L5-20R, L5-20P	#12-3	
L19	REFRIGERATOR, REACH-IN	1	0.33		8.5	X		120	1	L5-20R, L5-20P	#12-3	
L20	WORK TABLE, PORTABLE	1			20.0	X		120	1	L5-20R, L5-20P	#12-3	PROVIDE GFI RECEPTACLE
L21	WASHER, ADA COMPLIANT	1										
L21a	DRYER, ADA COMPLIANT	1			30.0	X		220	1	5-50R, 5-50P	#8-3	
L22	SINK, HAND, WALL MOUNT, ADA	1										
L23	FIRE PROTECTION SYSTEM	1			5.0		X	120	1	L5-20R, L5-20P	#12-3	
L24	REFRIGERATOR/FREEZER, DUAL-TEMP	1	0.53		13.2	X		120	1	L5-20R, L5-20P	#12-3	
L25	WORK TABLE	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L26	OVERSHELF, TABLE MOUNT	1										
L27	ADA WORK TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L28	SPARE NUMBER	–										
L29	OVERSHELF, TABLE MOUNT	1										
L30	CHILLER/FREEZER, BLAST	1	0.75		10.0	X		120	1	L5-20R, L5-20P	#12-3	
L31	WORK TABLE	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L32	OVERSHELF, TABLE MOUNT	1										
L33	WORK TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L34	OVERSHELF, TABLE MOUNT	1										
L35	SPARE NUMBER	–										
L36	POT RACK, CEILING MOUNT	1										
L37	S.S. WALL PANEL(S)	LOT										
L38	OVEN, CONVECTION, GAS	1	0.75		9.4	X		120	1	L5-20R, L5-20P	#12-3	
			0.75		9.4	X		120	1	L5-20R, L5-20P	#12-3	
L39	RANGE, HEAVY DUTY, GAS	1								L5-20R, L5-20P	#12-3	
L40	FLOOR TROUGH	1										
L41	TILT SKILLET	1		18.0	50.0		X	208	3			
L42	SPARE NUMBER	–										
L43	OVEN-STEAMER, COMBINATION	1		20.2	45.5		X	208	3	–		
				34.7	71.6		X	208	3			
L44	EXHAUST HOOD, TYPE I	1								–	–	
L45	REFRIGERATOR, REACH-IN	1	0.33		8.5	X		120	1	L5-20R, L5-20P	#12-3	
L46	REFRIGERATOR, REACH-IN	1	0.33		8.5	X		120	1	L5-20R, L5-20P	#12-3	
L47	WORK COUNTER, 33" WIDE	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L48	SPARE NUMBER	–									#6-4	
L49	SPARE NUMBER	–										
L50	SPARE NUMBER	–										
L51	REFRIGERATOR/FREEZER, DUAL-TEMP	1	0.53		13.2	X		120	1	L5-20R, L5-20P	#12-3	
L52	SINK, HAND, WALL MOUNT, ADA	1										
L53	CABINET, MOBILE, WARMING & HOLDING	1		2.0	7.2	X		208	1	L14-20R, L14-20P	#12-4	
L54	ADA WORK COUNTER W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L55	OVERSHELF, WALL MOUNT	1										
L56	SPARE NUMBER	–										
L57	REFRIGERATOR, REACH-IN	1	0.5		10.0	X		120	1	L5-20R, L5-20P	#12-3	
L58	WORK COUNTER W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L59	OVERSHELF, WALL MOUNT	1										
L60	MILK COOLER	1	0.33		8.2	X		120	1	L5-20R, L5-20P	#12-3	
L61	SERVING COUNTER	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L62	CASHIER COUNTER	1			20.0	X		120	1	5-30R, 5-30P	#10-3	PROVIDE GFI RECEPTACLE
L63	SPARE NUMBER	–										
L64	TRAY SLIDE, V-RIBBED	1										
L65	COLD PAN, DROP-IN	1	0.33		7.8	X		120	1	L5-20R, L5-20P	#12-3	
L66	FOOD PROTECTOR(S)	1										
L67	DROP-IN, HOT WELLS	1		3.4	16.3	X		208	1	L14-30R, L14-30P	#10-4	
L68	FOOD PROTECTOR(S)	1										
L69	TRAY SLIDE, V-RIBBED	1										
L70	SPARE NUMBER	–										
L71	DROP-IN, HOT WELLS	1		3.4	16.3	X		208	1	L14-30R, L14-30P	#10-4	
L72	FOOD PROTECTOR(S)	1									–	
L73	COLD PAN, DROP-IN	1	0.33		7.8	X		120	1	L5-20R, L5-20P	#12-3	
L74	FOOD PROTECTOR(S)	1										
L75	MILK COOLER	1	0.33		8.2	X		120	1	L5-20R, L5-20P	#12-3	
L76	CART, CONDIMENT	1										
L77	CAN RACK	3										
L78	CART, CONDIMENT	1										
L79	CART, CONDIMENT	1										
L80	CART, CONDIMENT	1										
L81	SHELVING, STORAGE	LOT										

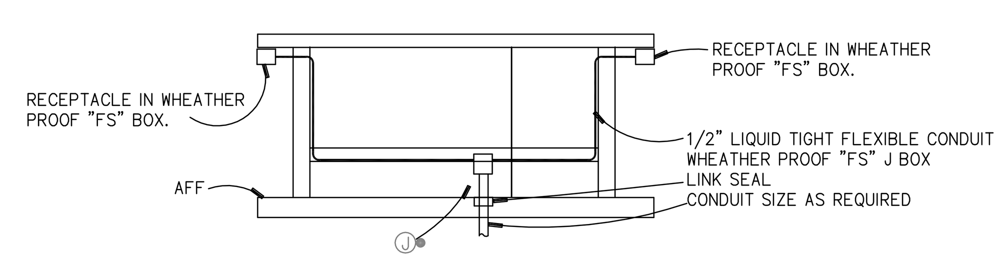
SEE NOTE #25. TYP.



4 E-103.1Ka | E-103.1Ka

SERVERY DETAIL

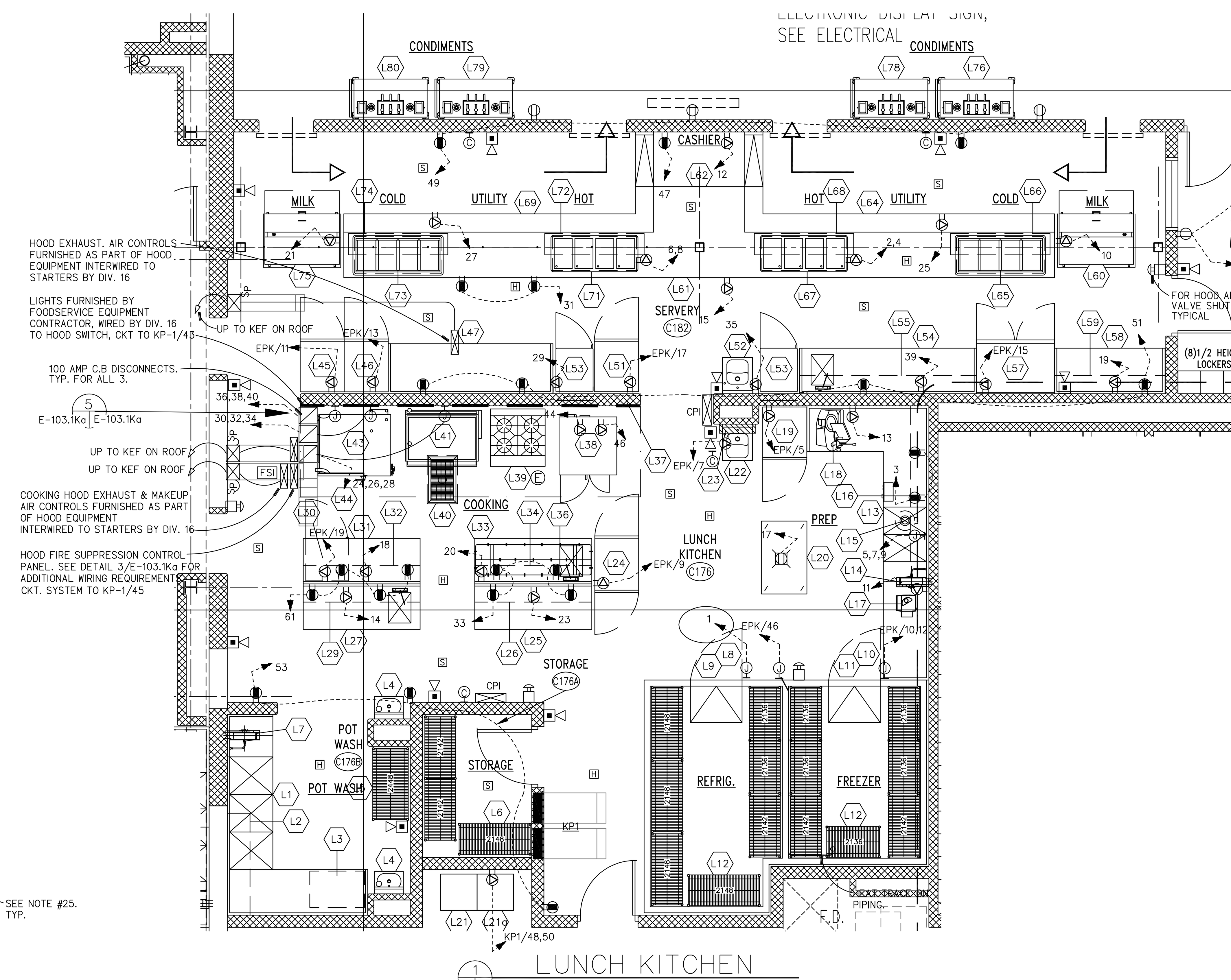
SCALE: NONE



2 E-103.1Ka | E-103.1Ka

WORK TABLE POWER DETAIL

SCALE: NONE



1 E-103.1Ka | E-103.1Ka

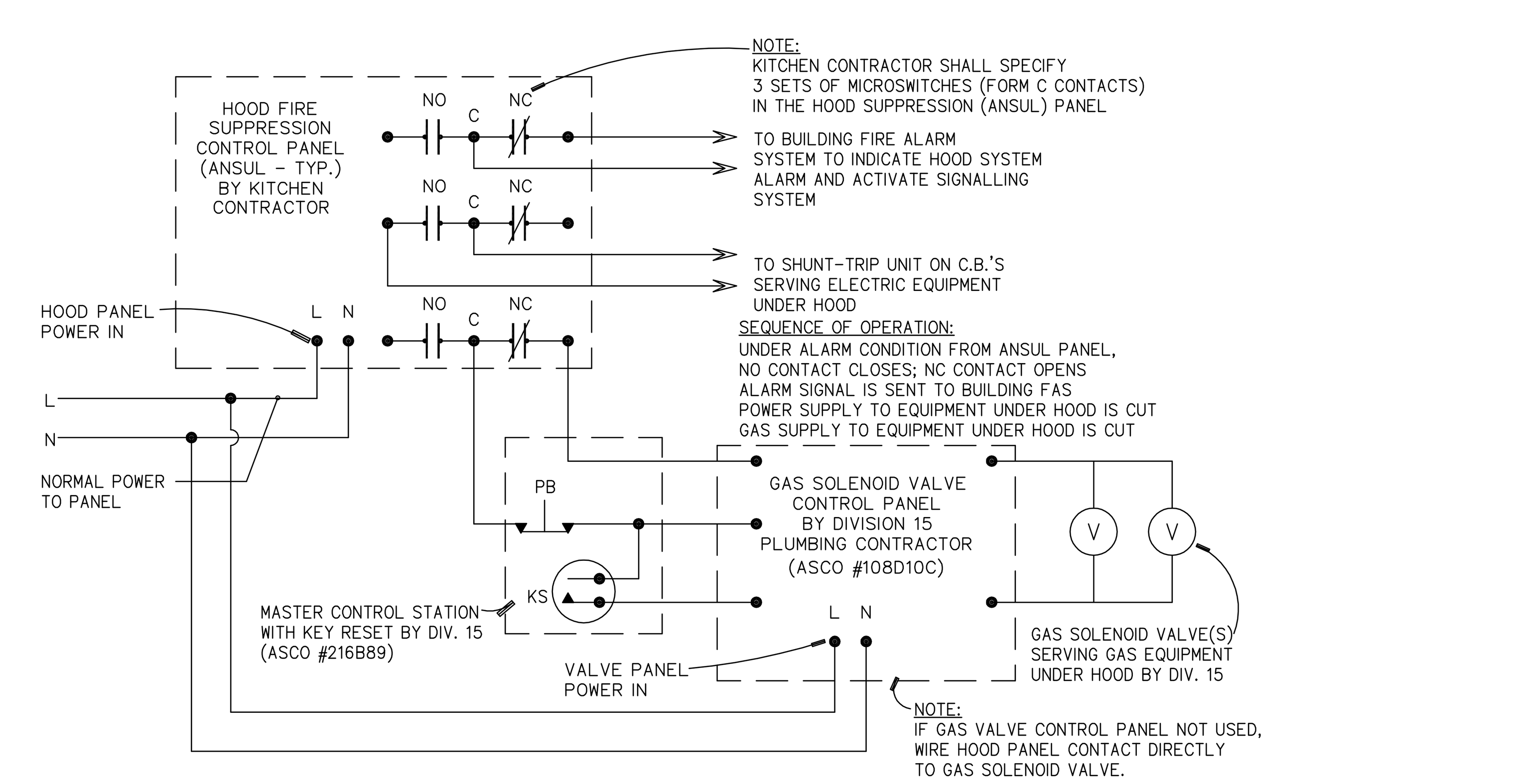
LUNCH KITCHEN

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

NOTE: ALL HOMERUNS EXTEND TO PANEL KP1 U.O.N.

A. GENERAL NOTES:

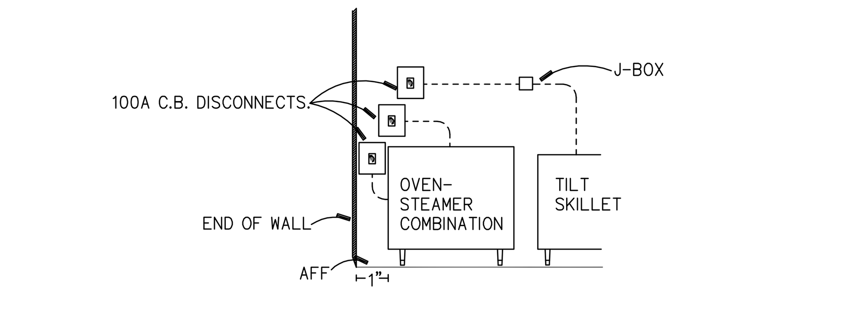
1. ALL WORK INDICATED ON THIS ELECTRICAL ROUGH-IN PLAN MUST BE COMPLETED BY OTHER THAN THE KITCHEN EQUIPMENT CONTRACTOR AND MUST COMPLY WITH ALL LOCAL CODES AND REGULATIONS.
2. THIS ELECTRICAL ROUGH-IN PLAN IS PROVIDED FOR INFORMATION ONLY, IS BASE ON A 60 HERTZ ELECTRICAL SYSTEM AND IS INTENDED TO SHOW FOODSERVICE FIXTURES AND EQUIPMENT OUTLET TYPES, LOCATIONS, LOADS AND CONNECTION POSITIONS ONLY. FURNISH ANY ADDITIONAL OUTLETS AS REQUIRED BY LOCAL CODES OR REQUESTED BY OWNER. REFER TO ARCHITECTURAL OR ENGINEERING PLANS FOR ANY ADDITIONAL ELECTRICAL REQUIREMENTS.
3. REFER TO APPROVED SHOP DRAWINGS FOR SUPPLEMENTAL FURNISH AND INSTALL CONNECTIONS, CIRCUITS, WIRE SIZE, CIRCUIT BREAKERS AND INSTALLATION REQUIREMENTS FOR THE FOODSERVICE EQUIPMENT INDICATED ON THIS PLAN. SUPPLEMENTAL FURNISH AND INSTALL REQUIREMENTS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
4. ELECTRICAL REQUIREMENTS FOR EXISTING AND OWNER OR PURVEYOR PROVIDED EQUIPMENT MUST BE VERIFIED WITH THE EQUIPMENT. THESE PLANS ARE MINIMUM GUIDELINES ONLY AND MUST BE VERIFIED. FURNISH SERVICES AND MAKE ALL FINAL CONNECTIONS AS REQUIRED. CONTACT EQUIPMENT PROVIDER FOR LOCATION OR SPECIFICATIONS FOR THIS EQUIPMENT.
5. EXPOSED ELECTRICAL SERVICES STUBBED UP OUT OF THE FLOOR MUST BE PROTECTED USING GRC AND INSTALLED IN A MANNER WHICH WILL PREVENT DAMAGE FROM WATER OR IF HIT BY PORTABLE KITCHEN EQUIPMENT, HEAVILY LOADED CARTS OR FLOOR CLEANING EQUIPMENT.
6. ALL WIRING, WIRING CONDUITS, JUNCTION BOXES, ELECTRICAL OUTLETS, SWITCHES, COVER PLATES, PLUG MOULDING, ETC. AS SHOWN ON PLAN AND NOT PROVIDED BY OTHERS. RUN ALL OF WHEREVER POSSIBLE. ALL EXPOSED SERVICES, COMPONENTS AND CONNECTIONS TO BE VAPOR TIGHT.
7. ALL DISCONNECTS OR OTHER DEVICES AS REQUIRED BY LOCAL CODES. DO NOT LOCATE DISCONNECTS OR OTHER DEVICES (OTHER THAN JUNCTION BOX CONNECTIONS OR CORD AND PLUG RECEPTACLES) BEHIND COOKING EQUIPMENT OR BELOW EXHAUST HOOD ASSEMBLIES.
8. ALL SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE SUPPRESSION SYSTEM SHUT-OFF OF ALL ELECTRICAL BELOW AND IN EXHAUST HOODS AND VENTILATORS, INTERWIRED WITH FIRE SUPPRESSION SYSTEM, AS REQUIRED BY N.F.P.A. STANDARDS AND ANY LOCAL CODES AND REGULATIONS.
9. ALL RECEPTACLES, OUTLETS AND CORD AND PLUG ASSEMBLIES TO BE N.E.M.A. SIZED, U.L. APPROVED AND RATED FOR THE SERVICE INDICATED ON THESE PLANS.
10. FURNISH AND INSTALL ALL WIRING TO AND INTERWIRING BETWEEN THE FOLLOWING EXHAUST HOOD / VENTILATOR COMPARTMENTS:
    a. ELECTRICAL SERVICES TO CONTROL PANELS. EXACT REQUIREMENTS FOR THE NUMBER OF WIRES AND ELECTRICAL SERVICE MUST BE VERIFIED WITH THE APPROVED SHOP DRAWINGS AND COMPLY WITH LOCAL CODES AND REGULATIONS.
    b. CONTROL WIRING FROM CONTROL PANEL TO EACH HOOD SECTION FOR DAMPERS, SOLENOIDS AND LIGHTS.
    c. CONTROL WIRING FROM CONTROL PANEL TO EXHAUST AND SUPPLY FANS. THESE FANS SHOULD BE ELECTRICALLY INTERLOCKED.
    d. FIRE SYSTEMS CONTROL INTERWIRING BETWEEN FIRE SUPPRESSION SYSTEMS, CONTROL PANELS AND REMOTE FIRE CONTROLS SHUT-OFFS.
    e. CONTROL WIRING FROM CONTROL PANEL TO EACH REMOTE DETERGENT PUMPS.
11. FURNISH AND INSTALL ALL REQUIRED MATERIALS TO MAKE FINAL CONNECTION TO ALL FOODSERVICE EQUIPMENT SHOWN ON THIS PLAN.
12. AVOID LOCATING ELECTRICAL PANELS BEHIND FOODSERVICE EQUIPMENT. REFER TO EQUIPMENT PLANS FOR THE LOCATIONS OF EQUIPMENT THAT DOES NOT APPEAR ON THIS ELECTRICAL ROUGH-IN PLAN.
13. FURNISH AND INSTALL AN ISOLATED CIRCUIT WITH A CLEAN EARTH GROUND FOR ALL OWNER PROVIDED POINT OF SALE EQUIPMENT, CREDIT CARDS, SCANNERS AND VALIDATION MACHINES. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND EQUIPMENT.
14. INTERCONNECT WASTE PULPER CONTROL PANEL WITH PULPER, EXTRACTOR AND REMOTE STOP-START STATIONS, AS PER MANUFACTURERS SPECIFICATIONS.
15. E.C. PROVIDE REEL TYPE DROP DOWN CORD ASSEMBLIES.
16. PROVIDE SHUNT TRIP CIRCUIT BREAKERS FOR EQUIPMENT UNDER KITCHEN EXHAUST HOOD. PROVIDE WIRE, CIRCUIT, AND CONNECTIONS FOR A COMPLETE AND FUNCTIONING ANSUL SYSTEM.
17. PROVIDE WIRING, CONNECTIONS AND CIRCUITS REQUIRED TO INTER CONNECT GAS SOLENOIDS AND ANSUL SYSTEM.
18. SEE DRAWING E0-01 FOR MORE INFORMATION
19. REFER TO KITCHEN CONSULTANT DOCUMENTS FOR KITCHEN ELECTRICAL REQUIREMENTS.
20. PROVIDE REFRIG. AND FREEZER LIGHT FIXTURES SAME AS TO ELEV. PIT LIGHT, CONFIRM WITH KITCHEN CONSULTANT.
21. PROVIDE COMPLETE FIRE ALARM INTERFACE WITH FIRE SUPPRESSION SYSTEM.
22. PROVIDE COMPLETE SHUNT TRIP CIRCUIT BREAKER INTERFACE WITH FIRE SUPPRESSION SYSTEM.
23. REFER TO SPECIFICATION SECTION 16100 FOR W.P. RECEPTACLE DETAILS.
24. REFER TO DRAWING E-001 FOR SYMBOLS, NOTES AND ABBREVIATIONS.
25. ALL CORD CAP PLUGS LOCATED IN ALL THREE KITCHEN AREAS SHALL BE WEATHER PROOF (WP).



3 E-103.1Ka | E-103.1Ka

KITCHEN HOOD EQUIPMENT INTERFACE DETAIL

SCALE: NONE



5 E-103.1Ka | E-103.1Ka

CIRCUIT BREAKER LOCATION DETAIL.

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

KP1

208 Y/120V 65K AIC 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

CKT	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	CKT
1	Walk-in Cooler	2#12+#12G	20	1	0.48	1.70					2	30	2#10+#10G	Hot Wells	2
3	Prep Table	2#10+#12G	30	1			0.50	1.70							4
5	Garbage Disposer	2#10+#10G	30	3					1.06	1.70	2	30	2#10+#10G	Hot Wells	6
7					1.06	1.70									8
9							1.06	1.00			1	20	2#12+#12G	Milk Cooler	10
11	Vegetable Cutter	2#12+#12G	20	1					0.90	1.00	1	30	2#10+#10G	Cashier Counter	12
13	Food Slicer	2#12+#12G	20	1	0.72	2.40					1	30	2#10+#10G	Work Table	14
15	Serving Counter	2#10+#10G	30	1			1.00	0.00			1	20		SPARE	16
17	Work Table	2#10+#10G	30	1					0.50	0.50	1	30	2#10+#12G	Work Table	18
19	Spare		20	1	0.00	0.50					1	20	2#12+#12G	Work Table	20
21	Milk Cooler	2#12+#10G	20	1			1.00	1.68			1	20	2#12+#12G	Fryer	22
23	Work Table	2#10+#12G	30	1					0.50	6.00	3	100 ST	4#2+#6G	Tilt Skillet	24
25	Cold Pan	2#12+#10G	20	1	0.94	6.00									26
27	Cold Pan	2#12+#10G	20	1			0.94	6.00							28
29	Work Counter	2#10+#10G	30	1					0.50	5.46	3	100 ST	4#2+#6G	Oven Steamer	30
31	Counter Recep	2#12+#10G	20	1	0.36	5.46									32
33	Counter Recep	2#12+#10G	20	1			0.80	5.46							34
35	Warming Cabinet	2#12+#10G	20	2					1.00	8.59	3	100 ST	4#2+#6G	Oven Steamer	36
37	RECEPTACLE	2#12+#10G			0.20	8.59									38
39	Work Counter	2#10+#10G	20	1			0.50	8.59							40
41	Receptacles	2#12+#10G	20	1					0.60	0.80	1	20	2#12+#10G	Receptacles	42
	LOAD PER PHASE				30.11		30.23		29.11						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☑ ISOLATED GROUND BUS G = GFI BREAKER

1. ST = SHUNT TRIP BREAKERS. REFER TO DETAIL # 2 ON DRAWING E-704 FOR WIRING.
2.

KP1

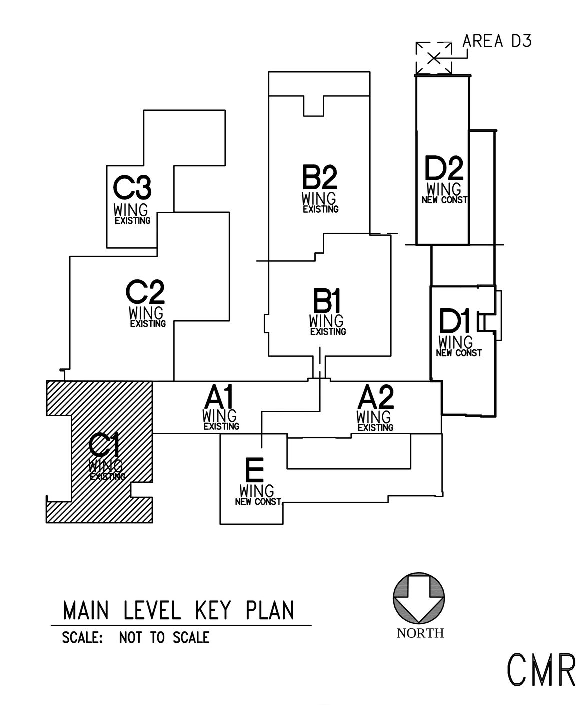
208 Y/120V 65K AIC 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

CKT	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	CKT
43	HOOD LIGHTS	2#12+#12G	20	1	0.55	1.13					1	20	2#12+#12G	OVEN	44
45	ANSUL	2#12+#12G	20	1			0.20	1.13			1	20	2#12+#12G	OVEN	46
47	REC.	2#12+#12G	20	1					0.18	3.12	2	40	2#6+#10G	WASHER & DRYER	48
49	REC.	2#12+#12G	20	1	0.18	3.12									50
51	REC.	2#12+#12G	20	1			0.18	0.80			1	20	2#12+#12G	REC.	52
53	REC.	2#12+#12G	20	1					0.18	0.00	1	20		SPARE	54
55	SPARE		20	1	0.00	0.00					1	20		SPARE	56
57	SPARE		20	1			0.00	0.00			1	20		SPARE	58
59	SPARE		20	1					0.00	0.00	1	20		SPARE	60
61	SPARE		20	1	0.00	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				35.09		32.54		32.59						

TOTAL = 100.21 kVA — 278 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☑ ISOLATED GROUND BUS G = GFI BREAKER

1. ST = SHUNT TRIP BREAKERS. REFER TO DETAIL # 2 ON DRAWING E-704 FOR WIRING.
2.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

STATE OF CONNECTICUT PHILIP C. STEINER No. 22274 LICENSED PROFESSIONAL ENGINEER

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ENLARGED KITCHEN PLANS LUNCH KITCHEN ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 045118Ea

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

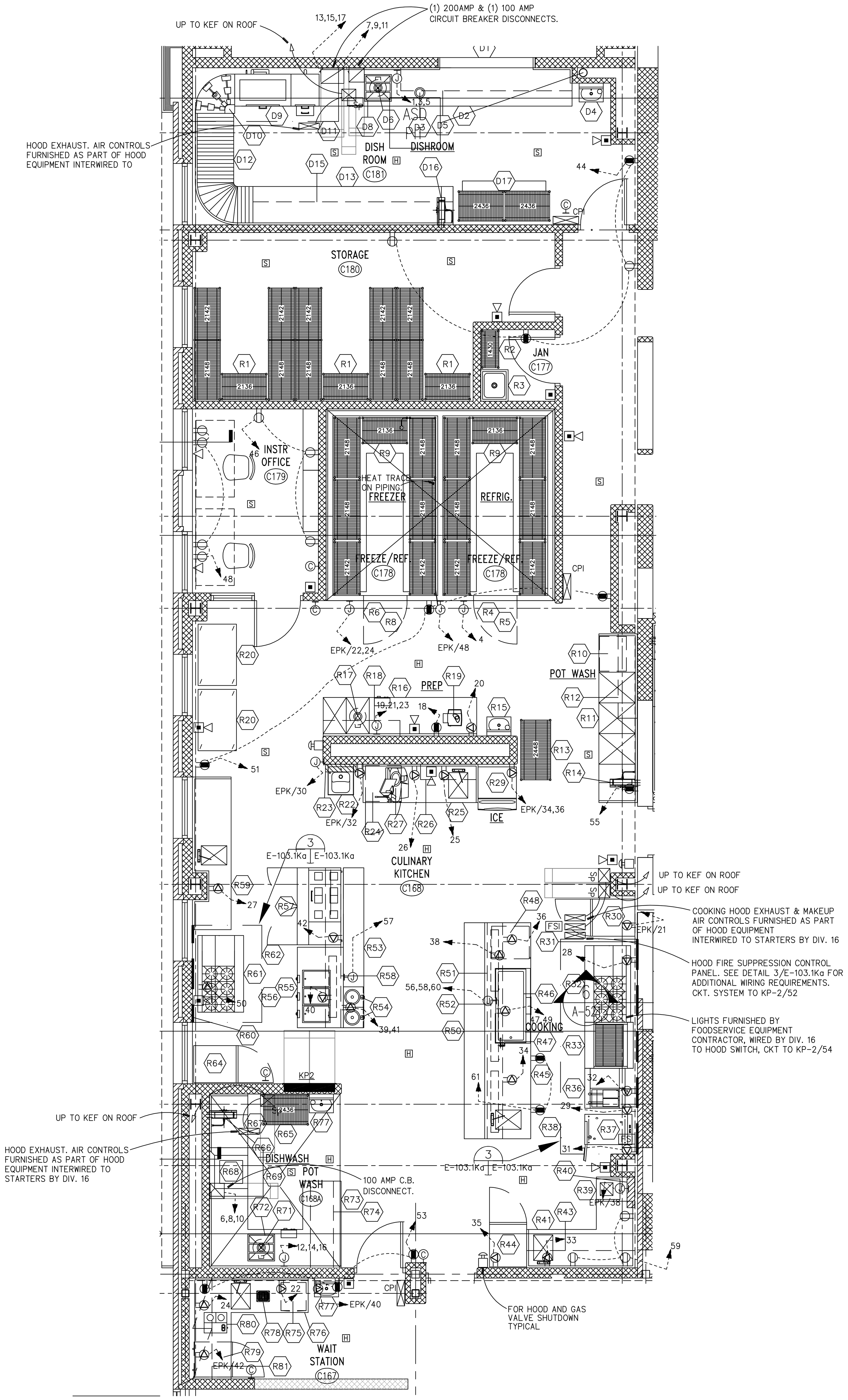
Project No. BI-RT-837

Date 06-18-2012
Scale 1/4"=1'-0"
Drawn By RML
Approved By AK
Drawing No. E-103.1Ka

FILE:0451tb REV:02/01/2007 17:15
FILE:045118Ea REV:06/21/12 07:40

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HP	KW	AMPS	PLUG	DIRECT	VOLTS	PHASE	NEMA RECEPTACLE TYPE AND PLUG	"SO" TYPE OF CABLE	EQUIPMENT REMARKS
	DISHROOM AREA											
D1	PASS-THRU WINDOW	1										
D2	SOILED DISH TABLE	1										
D3	S.S. SCRAPER	1										
D4	SINK, HAND, WALL MOUNT	1										
D5	RACK SHELF, WALL MOUNT	1										
D6	DISPOSER, GARBAGE	1	3.0		8.8		X	208	3	L21-20R, L21-20P	#12-5	PROVIDE GFI RECEPTACLE
D7	SPARE NUMBER	–										
D8	PRE-WASH SINK, BUILT-IN	1										
D9	WAREWASHER, RACK CONVEYOR	1			74.0		X	208	3	–	–	
					136.0		X	208	3	–	–	
D10	WAREWASHER, ACCESSORY	1	0.25				X	208	1	L14-20R, L14-20P	#12-4	PROVIDE GFI RECEPTACLE
D11	EXHAUST HOOD, TYPE II	1										
D12	ROLLER TABLE SECTION	1										
D13	CLEAN DISH TABLE	1										
D14	SPARE NUMBER	–										
D15	RACK SHELF, WALL MOUNT	1										
D16	HOSE REEL WITH GUN, UNDERMOUNT	1										
D17	DRYING RACK, PORTABLE	2										
	RESTAURANT KITCHEN AREA											
R1	SHELVING, STORAGE	LOT										
R2	SHELVING, STORAGE, PORTABLE	1										
R3	SINK, MOP	1										
R4	WALK-IN COOLER	1			4.0		X	120	1	L5-20R, L5-20P	#12-3	
R5	REFRIG. TO ITEM #R4	1	0.75				X	208	1	–	–	WEATHER PROOF DISCONNECT
R6	WALK-IN FREEZER	1			8.7		X	208	1	L14-20R, L14-20P	#12-4	
R7	SPARE NUMBER	–										
R8	REFRIG. TO ITEM #R6	1	2.0				X	208	1			WEATHER PROOF DISCONNECT
R9	SHELVING, STORAGE, PORTABLE	LOT										
R10	S.S. CHEMICAL CABINET	1										
R11	POT WASH SINK	1										
R12	SLOTTED OVERSHELF, WALL MOUNT	1										
R13	DRYING RACK, PORTABLE	1										
R14	HOSE REEL WITH GUN, UNDERMOUNT	1										
R15	SINK, HAND, WALL MOUNT	1										
R16	PREP TABLE	1			20.0	X		120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
R17	DISPOSER, GARBAGE	1	3.0		8.8		X	208	3	L21-20R, L21-20P	#12-5	
R18	OVERSHELF, WALL MOUNT	1										
R19	CUTTER, VEGETABLE	1	1.0		7.5	X		120	1	L5-20R, L5-20P	#12-3	
R20	WORK TABLE, PORTABLE	2								(2)5-30R, (2)5-30P	#12-3	
R21	SPARE NUMBER	–										
R22	SINK, HAND, WALL MOUNT, ADA	1										
R23	FIRE PROTECTION SYSTEM	1			5.0		X	120	1	L5-20R, L5-20P	#12-3	
R24	CHILLER/FREEZER, BLAST	1	0.75		10.0	X		120	1	L5-20R, L5-20P	#12-3	
R25	ADA WORK TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#12-3	
R26	OVERSHELF, WALL MOUNT	1										
R27	SLICER, FOOD	1	0.5		6.0	X		120	1	L5-20R, L5-20P	#12-3	
R28	SPARE NUMBER	–										
R29	ICE MAKER W/ BIN	1	1.0		8.3		X	208	1	L14-20R, L14-20P	#12-4	
R30	REFRIGERATOR, REACH-IN	1	0.33		8.5	X		120	1	L5-20R, L5-20P	#12-3	
R31	S.S. WALL PANEL(S)	LOT										
R32	RANGE, RESTAURANT, GAS	1			20.0	X		120	1	L5-20R, L5-20P	#12-3	
R33	CHARBROILER, HEAVY DUTY, GAS	1								L5-20R, L5-20P	#12-3	
R34	SPARE NUMBER	–								L5-20R, L5-20P	#12-3	
R35	SPARE NUMBER	–										
R36	FRYER, BATTERY, GAS W/FILTER	1			(2)7.0	X		120	1	L5-20R, L5-20P	#12-3	
R37	STEAMER, CONVECTION	1		0.1	0.8		X	120	1	L5-20R, L5-20P	#12-3	
R38	EXHAUST HOOD, TYPE I	1										
R39	HAND SINK, BUILT-IN	1										
R40	FIRE PROTECTION SYSTEM	1			5.0		X	120	1	L5-20R, L5-20P	#12-3	
R41	WORK TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
R42	SPARE NUMBER	–										
R43	OVERSHELF, WALL MOUNT	1										
R44	REFRIGERATOR/FREEZER, DUAL-TEMP	1	0.53		13.2	X		120	1	L5-20R, L5-20P	#12-3	
R45	CHEF'S TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
R46	DROP-IN, BAIN MARIE	1			20.0	X		208	1	L14-20R, L14-20P	#12-4	
R47	FAUCET, PANTRY TYPE	1										
R48	CABINET, MOBILE, WARMING & HOLDING	1		1.0	8.0	X		120	1	L5-30R, L5-30P	#12-3	
R49	SPARE NUMBER	–										
R50	TRAY REST, OPEN	1										
R51	OVERSHELF, TWO-TIER	1										
R52	WARMER, FOOD OVERHEAD	3		0.8	(3)6.7		X	120	1	L5-30R, L5-30P	#12-3	
R53	TRAY REST, OPEN	1								–		
R54	DROP-IN, SOUP WELLS	2		0.8	3.0		X	208	1	L14-20R, L14-20P	#12-4	PROVIDE GFI RECEPTACLE
R55	CHEF'S TABLE	1			20.0	X		120	1	L5-30R, L5-30P	#12-3	
R56	HOT WELLS, BUILT-IN	3			6.0		X	208	1			
R57	REFRIGERATOR, SANDWICH/SALAD PREP	1	0.33		7.8	X		120	1	L5-20R, L5-20P	#12-3	
R58	OVERSHELF, TWO-TIER, W/ HEAT	1		0.8	6.7		X	120	1	–		
R59	WORK TABLE W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
R60	S.S. WALL PANEL(S)	LOT								–		
R61	RANGE, RESTAURANT, GAS	1			20.0	X		120	1	L5-20R, L5-20P	#12-3	
R62	EXHAUST HOOD, TYPE I	1										
R63	SPARE NUMBER	–										
R65	DRYING RACK, PORTABLE	1										
R66	HOSE REEL WITH GUN, UNDERMOUNT	1										
R67	CLEAN DISH TABLE	1										
R68	WAREWASHER, DOOR TYPE, HIGH TEMP	1			58.0		X	208	3	–	–	–
R69	EXHAUST HOOD, TYPE II	1										
R70	SPARE NUMBER	–										
R71	DISPOSER, GARBAGE	1	3.0		8.8		X	208	3	L21-20R, L21-20P	#12-5	
R72	PRE-WASH SINK, BUILT-IN	1										
R73	SOILED DISH TABLE	1										
R74	RACK SHELF, DUAL-SIDED	1										
R75	ICE MAKER W/ BIN	1	0.25		5.2	X		120	1	L14-20R, L14-20P	#12-4	
R76	WORK COUNTER W/ SINK	1			20.0	X		120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
R77	SINK, HAND, WALL MOUNT	2										
R78	FILLER, GLASS	1										
R79	REFRIGERATOR, UNDERCOUNTER	1	0.2		4.6	X		120	1	L5-20R, L5-20P	#12-3	
R80	COFFEE MAKER, AUTOMATIC	1		1.7	13.9	X		120	1	L5-20R, L5-20P	#12-3	
R81	S.S. WALL CABINET(S)	2										



CULINARY KITCHEN
1 E-103.1KB
SCALE: 1/4" = 1'-0"

NOTE: ALL HOMERUNS EXTEND TO PANEL KP2 U.O.N.

KP2

208 Y/120V · 65K AIC · 3Ø-4W · BUS: 400 AMP · MAIN: 400 AMP CB

CKT	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	CKT
1	Garbage Disposal	2#10+#10G	20	3	1.06	0.00					1	20		Spare	2
3							1.06	0.83			1	20	2#12+#10G	Walk-in Cooler	4
5									1.06	6.96					6
7	Rack Conveyor	4#4+#8G	100	3	8.88	6.96					3	100	4#4+#8G	Warewasher	8
9							8.88	6.96							10
11									8.88	1.06					12
13	Rack Conveyor	4#3/0+#6G	200	3	16.32	1.06					3	20	4#10+#10G	Garbage Disposal	14
15							16.32	1.06							16
17									16.32	0.50	1	30	2#10+#10G	Prep Table	18
19	Garbage Disposal	4#10+#10G	20	3	1.06	1.13					1	20	2#10+#10G	Vegetable Cutter	20
21							1.06	5.00			1	20	2#10+#10G	Work Counter	22
23									1.06	1.59	1	20	2#10+#10G	Coffee Maker	24
25	Work Table	2#10+#10G	30	1	0.50	0.90					1	20	2#12+#12G	Food Slicer	26
27	Work Table	2#10+#10G	30	1			0.50	0.20			1	20ST	2#12+#12G	Range, Restaurant,Gas	28
29	Fryer	2#10+#10G	30ST	1					2.10	0.00	1	20ST		Spare	30
31	Steamer	2#12+#12G	20ST	1	0.19	0.84					1	20ST	2#12+#12G	Fryer	32
33	Work Table	2#10+#10G	20	1			0.50	0.50			1	20	2#12+#12G	Chef's Table	34
35	Refrigerator	2#12+#12G	20	1					1.28	1.20	1	20	2#12+#12G	Warming Cabinet	36
37	Hot Wells	2#10+#10G	30	1	2.45	2.50					1	30	2#10+#10G	Food Warmer	38
39	Soup Wells	3#10 + #10G	20	1			0.80	0.50			1	20	2#12+#12G	Chef's Table	40
41									0.80	1.17	1	20	2#12+#12G	Refrigerator	42
	LOAD PER PHASE				43.83		44.16		43.97						

TOTAL = SEE SECTION 2 · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

KP2

208 Y/120V · 65K AIC · 3Ø-4W · BUS: 400 AMP · MAIN: MAIN LUGS ONLY

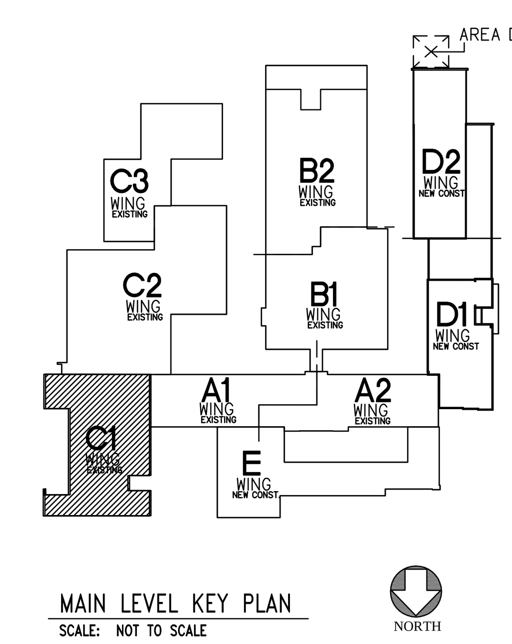
CKT	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	CKT
43	HOOD LIGHTS	2#12+#12G	20	1	0.75	0.60					1	20	2#12+#12G	RECEPTACLE	44
45	RECEPTACLE	2#12+#12G	20	1			0.18	0.60			1	20	2#12+#12G	RECEPTACLE	46
47	Drop Ins, Hot Wells	2#10+#10G	20	1					1.70	0.60	1	20	2#12+#12G	RECEPTACLE	48
49					1.70	0.20					1	20ST	2#12+12G	Range, Restaurant,Gas	50
51	RECEPTACLE	2#12+#12G	20	1			0.40	0.20			1	20ST	2#12+12G	HOOD ANSUL	52
53	RECEPTACLE	2#12+#12G	20	1					0.20	0.40	1	20ST	2#12+12G	HOOD LIGHTING	54
55	RECEPTACLE	2#12+#12G	20	1	0.20	0.80					1	20	2#12+12G	FOOD WARMER	56
57	FOOD WARMER	2#12+#12G	20	1			0.80	0.80			1	20	2#12+12G	FOOD WARMER	58
59	RECEPTACLE	2#12+#12G	20	1					0.40	0.80	1	20	2#12+12G	FOOD WARMER	60
61	RECEPTACLE	2#12+#12G	20	1	0.40	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				48.49		47.15		48.07						

TOTAL = 143.71 kVA · 399 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

CMR BID DOCUMENTS

REFER TO DRAWING E-103.1Ka FOR DETAILS & ADDITIONAL INFORMATION.

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT · PHILIP C. STEINER · No. 22271 · LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ENLARGED KITCHEN PLANS CULINARY/BAKERY KITCHEN ELEC.

REVISIONS

Mark	Date	Description

CAD No. 045118Eb

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

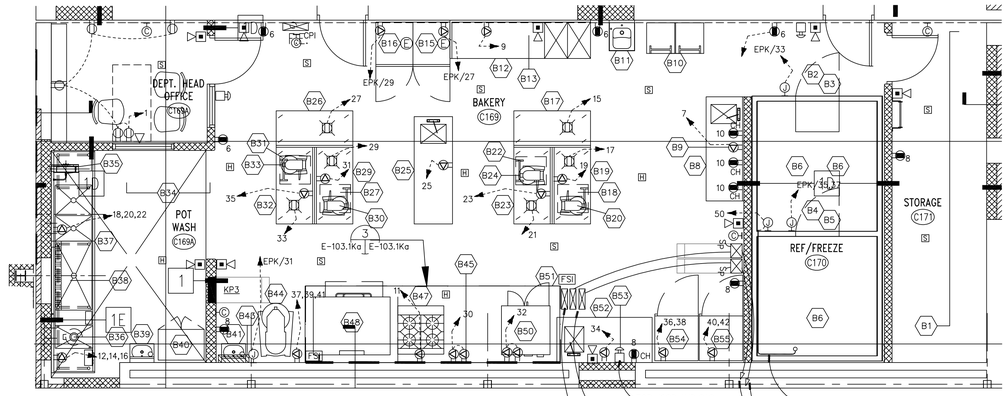
Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 · Scale 1/4"=1'-0" · Drawn By RML · Approved By AK · Drawing No. E-103.1Kb

FILE:0451tb REV:02/01/2007 17:15 FILE:045118Eb REV:06/21/12 07:44



1 BAKERY KITCHEN
E-103.1KC | E-103.1KC
SCALE: 1/4" = 1'-0"

NOTE: ALL HOMERUNS EXTEND TO PANEL KP3 U.O.N.

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HP	KW	AMPS	VOLTS	PHASE	NEMA RECEPTACLE TYPE AND PLUG	"SO" TYPE OF CABLE	EQUIPMENT REMARKS
	BAKERY KITCHEN AREA									
B1	SHELVING, STORAGE	LOT								
B2	WALK-IN COOLER	1			4.0	120	1	L5-20R, L5-20P	#12-3	
B3	REFRIG. TO ITEM #B2	1	0.75			208	1	–	–	WEATHER PROOF DISCONNECT
B4	WALK-IN FREEZER	1			8.7	208	1	L14-20R, L14-20P	#12-4	
B5	REFRIG. TO ITEM #B4	1	2.0			208	1	–	–	WEATHER PROOF DISCONNECT
B6	SHELVING, STORAGE, PORTABLE	LOT								
B7	SPARE NUMBER	–								
B8	WORK TABLE W/ SINK	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B9	OVERSHELF, WALL MOUNT	1								
B10	BIN, INGREDIENT	2								
B11	SINK, HAND, WALL MOUNT	1								
B12	PREP TABLE	1			20.0	120	1	5-30R, 5-30P	#12-3	
B13	OVERSHELF, WALL MOUNT	1								
B14	SPARE NUMBER	–								
B15	REFRIGERATOR, REACH-IN	1	0.33		8.5	120	1	L5-20R, L5-20P	#12-3	
B16	FREEZER, REACH-IN	1	0.5		9.1	120	1	L5-20R, L5-20P	#12-3	
B17	WORK TABLE, PORTABLE	1			20.0	120	1			
B18	BIN, INGREDIENT	1						–	–	
B19	WORK TABLE, PORTABLE	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B20	MIXER, COUNTER	1	0.5		8.2	120	1	L5-20R, L5-20P	#12-3	
B21	SPARE NUMBER	–								
B22	BIN, INGREDIENT	2						–	–	
B23	WORK TABLE, PORTABLE	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B24	MIXER, COUNTER	1	0.5		8.2	120	1	L5-20R, L5-20P	#12-3	
B25	WORK TABLE W/ SINK	1			20.0	120	1	5-20R, 5-20P	#12-3	
B26	WORK TABLE, PORTABLE	1			20.0	120	1	5-20R, 5-20P	#12-3	PROVIDE GFI RECEPTACLE
B27	BIN, INGREDIENT	1						–	–	
B28	SPARE NUMBER	–								
B29	WORK TABLE, PORTABLE	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B30	MIXER, COUNTER	1	0.5		8.2	120	1	L5-20R, L5-20P	#12-3	
B31	BIN, INGREDIENT	2						–	–	
B32	WORK TABLE, PORTABLE	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B33	MIXER, COUNTER	1	0.5		8.2	120	1	L5-20R, L5-20P	#12-3	
B34	DRYING RACK, PORTABLE	2								
B35	SPARE NUMBER	–								
B36	DISPOSER, GARBAGE	1	3.0		8.8	208	3	L21-20R, L21-20P	#12-5	
B37	WAREWASHER, POT & PAN	1	3.0	3.0	25.0	208	3	14-50R, 14-50P	#16-5	PROVIDE GFI RECEPTACLE
B38	SLOTTED OVERSHELF, WALL MOUNT	1								
B39	SINK, HAND, WALL MOUNT	1								
B40	S.S. CHEMICAL CABINET, FULL HEIGHT	1								
B41	SINK, HAND, WALL MOUNT	1								
B42	SPARE NUMBER	–								
B43	FIRE PROTECTION SYSTEM	1			5.0	120	1	L5-20R, L5-20P	#12-3	
B44	MIXER, FLOOR	1	3.0		11.0	208	3	L21-20R, L21-20P	#12-5	
B45	S.S. WALL PANEL(S)	1								
B46	FRYER, DOUGHNUT	1								
B47	RANGE, HEAVY DUTY, GAS	1						L5-20R, L5-20P	#12-3	
B48	OVEN, CONVECTION, GAS	1	0.75		9.4	120	1	L5-20R, L5-20P	#12-3	
			0.75		9.4	120	1	L5-20R, L5-20P	#12-3	
B49	SPARE NUMBER	–								
B50	OVEN, CONVECTION, GAS	1	0.75		9.4	120	1	L5-20R, L5-20P	#12-3	
			0.75		9.4	120	1	L5-20R, L5-20P	#12-3	
B51	EXHAUST HOOD, TYPE I	1								
B52	WORK TABLE W/ SINK	1			20.0	120	1	5-30R, 5-30P	#12-3	PROVIDE GFI RECEPTACLE
B53	OVERSHELF, WALL MOUNT	1						–		
B54	PROOF BOX	1			10.6	208	1	L14-20R, L14-20P	#12-4	
B55	PROOF BOX	1			10.6	208	1	L14-20R, L14-20P	#12-4	
B56	SPARE NUMBER	–								

KP3

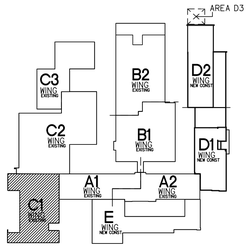
208 Y/120V
65K AIC 3Ø-4W

BUS: 225 AMP
MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Dept. Office	2#12+12G	20	1	1.00	0.40					1	20ST	2#12+12G	HOOD LIGHTS	2
3	SPARE		20	2			0.00	0.20			1	20	2#12+12G	HOOD ANSUL	4
5									0.00	1.00	1	20	2#12+12G	KITCHEN RECEPT.	6
7	Work Table	2#10+10G	30	1	0.50	1.00					1	20	2#12+12G	KITCHEN RECEPT.	8
9	Prep Table	2#10+10G	30	1			0.50	0.80			1	20	2#12+12G	KITCHEN RECEPT.	10
11	Range, Heavy Duty, Gas	2#12+12G	20ST	1					0.20	1.06					12
13	RECEPTACLE	2#12+#12G	20	1	0.20	1.06					3	20	4#10+#10G	Garbage Disposer	14
15	Work Table	2#10+#10G	30	1			0.50	1.06							16
17	Work Table	2#12+#12G	20	1					0.50	3.00					18
19	Counter Mixer	2#12+#12G	20	1	0.98	3.00					3	50	4#8 + #10G	Warew asher	20
21	Work Table	2#10+#10G	20	1			0.50	3.00							22
23	Counter Mixer	2#12+#12G	20	1					0.98	0.88					24
25	Work Table	2#10+#10G	20	1	0.50	0.88					3	30	3#10+#10G	Mixer	26
27	Work Table	2#10+#10G	20	1			0.50	0.88							28
29	Work Table	2#10+#10G	20	1					0.50	2.26	1	30ST	2#10+#10G	Oven	30
31	Counter Mixer	2#12+#12G	20	1	0.98	2.26					1	30ST	2#10+#10G	Oven	32
33	Work Table	2#10+#10G	20	1			0.50	0.50			1	20	2#10+#10G	Work Table	34
35	Counter Mixer	2#12+#12G	20	1					0.98	1.27	2	20	3#10+#10G	Proof Box	36
37	Mixer, Floor	4#12+#12G	20ST	1	0.50	1.27									38
39							0.50	1.27			2	20	3#10+#10G	Proof Box	40
41									0.50	1.27					42
				LOAD PER PHASE	14.53		10.71		14.40						
				TOTAL =			39.64 kVA					110 AMPS		A = AFI BREAKER	

NOTES: ☐ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☑ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:
1. REFER TO GENERAL NOTES ON DRAWING E-103.1Ka.

CMR BID DOCUMENTS

REFER TO DRAWING E-103.1Ka FOR DETAILS & ADDITIONAL INFORMATION.

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LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ENLARGED KITCHEN PLANS
BAKERY PLAN ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 045118Ec

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/4"=1'-0"
Drawn By RML
Approved By AK
Drawing No. E-103.1Kc

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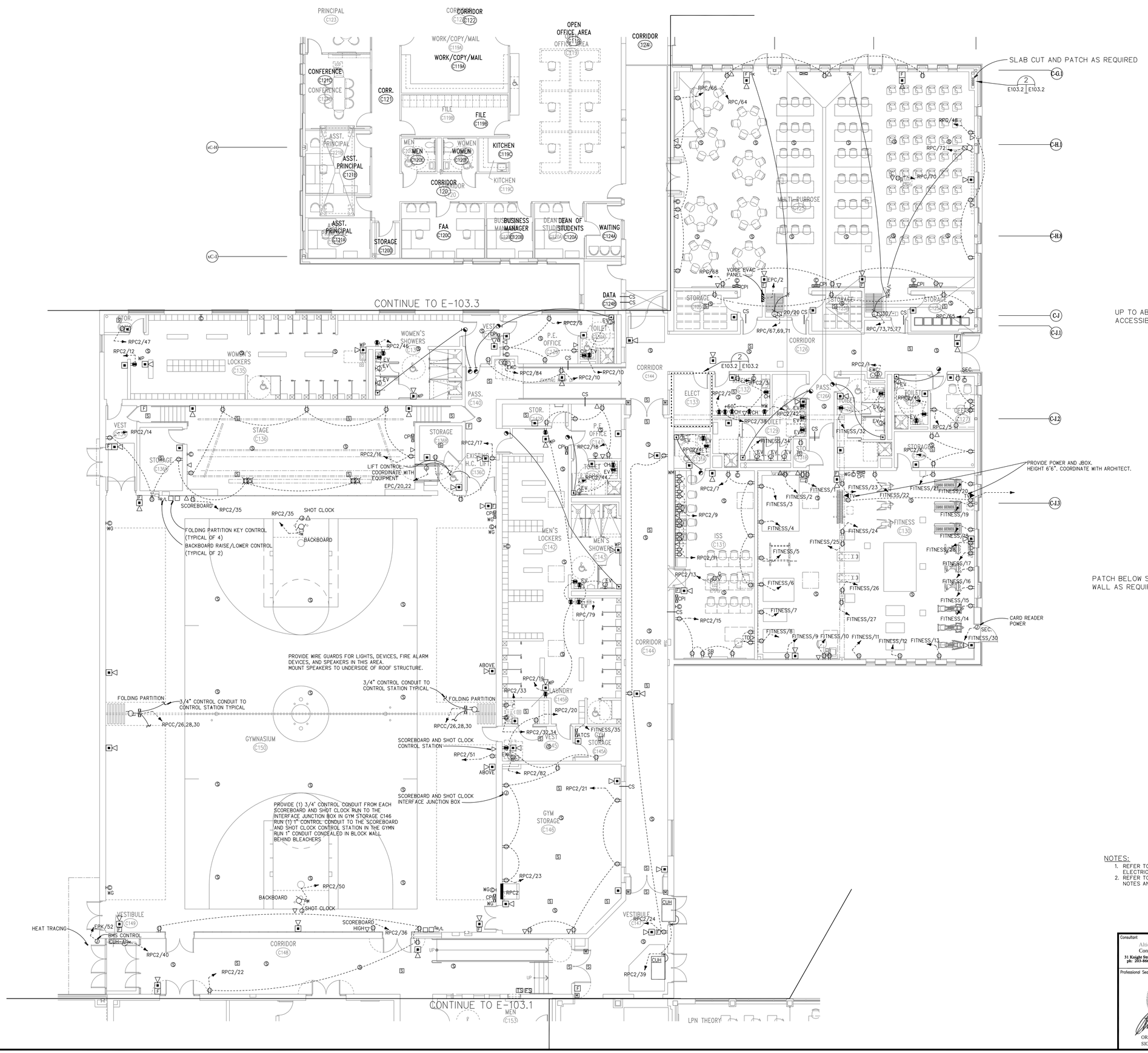
FILE:045118Ec REV:06/19/12 13:34



NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature
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PAUL C. ST. PIERRE
No. 22018
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045119E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-103.2

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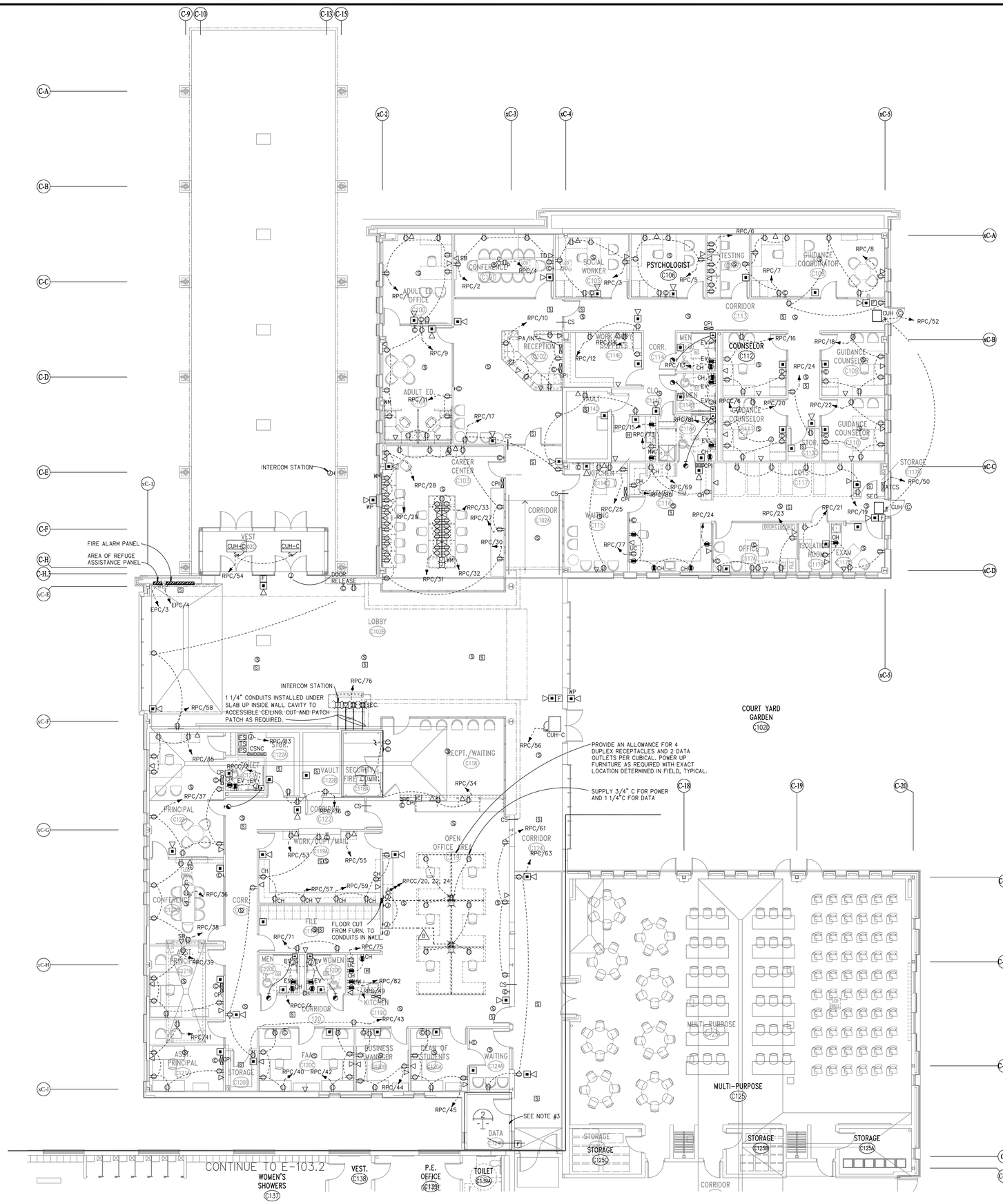
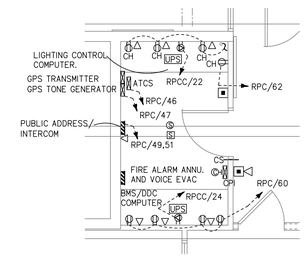
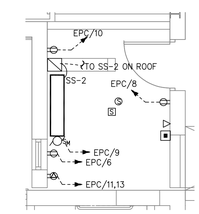




1 SECURITY ROOM DETAIL

E-103.3 E-103.3 SCALE: 1/4" = 1'0"

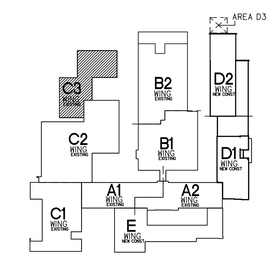


2 DATA ROOM DETAIL

E-103.3 E-103.3 SCALE: 1/4" = 1'0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. PROVIDE 3/4" PLYWOOD BACKBOARD, 8FT HIGH ON ALL WALL IN DATA C124B.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
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31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22211

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: AREA C3 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045110E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-103.3

FILE:045110e REV:02/01/2007 17:15 FILE:045110eg REV:04/24/2012 15:30
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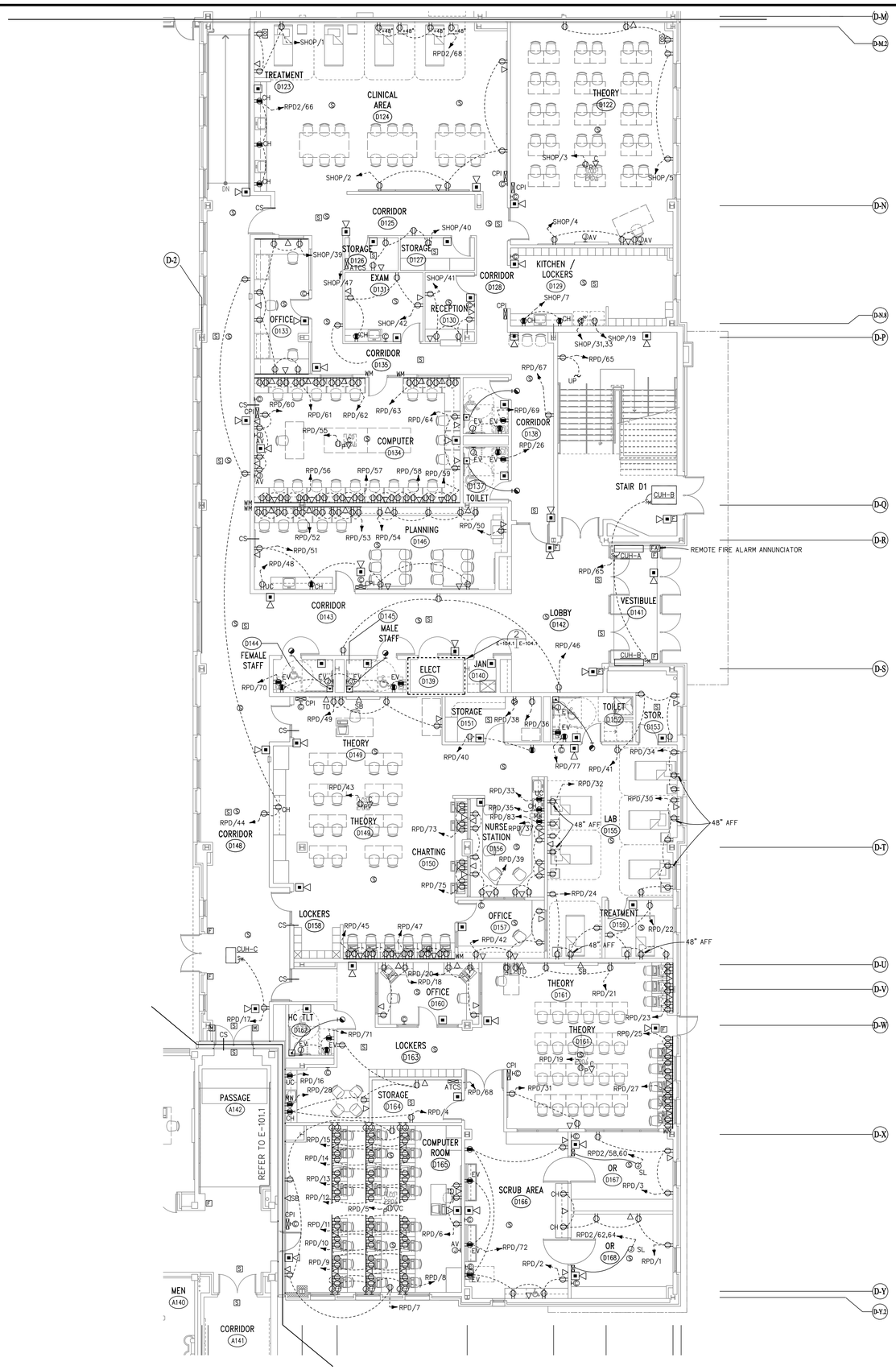
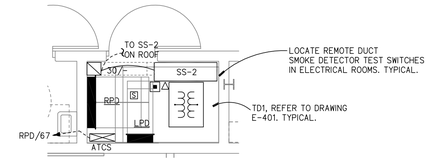


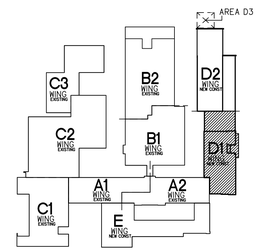


2 ELECTRICAL ROOM D139

E-104.1 | E-104.1 SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

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STATE OF CONNECTICUT · ANTHONY C. BIZZARRO · No. 22011 · PROFESSIONAL ENGINEER

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045112E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-104.1

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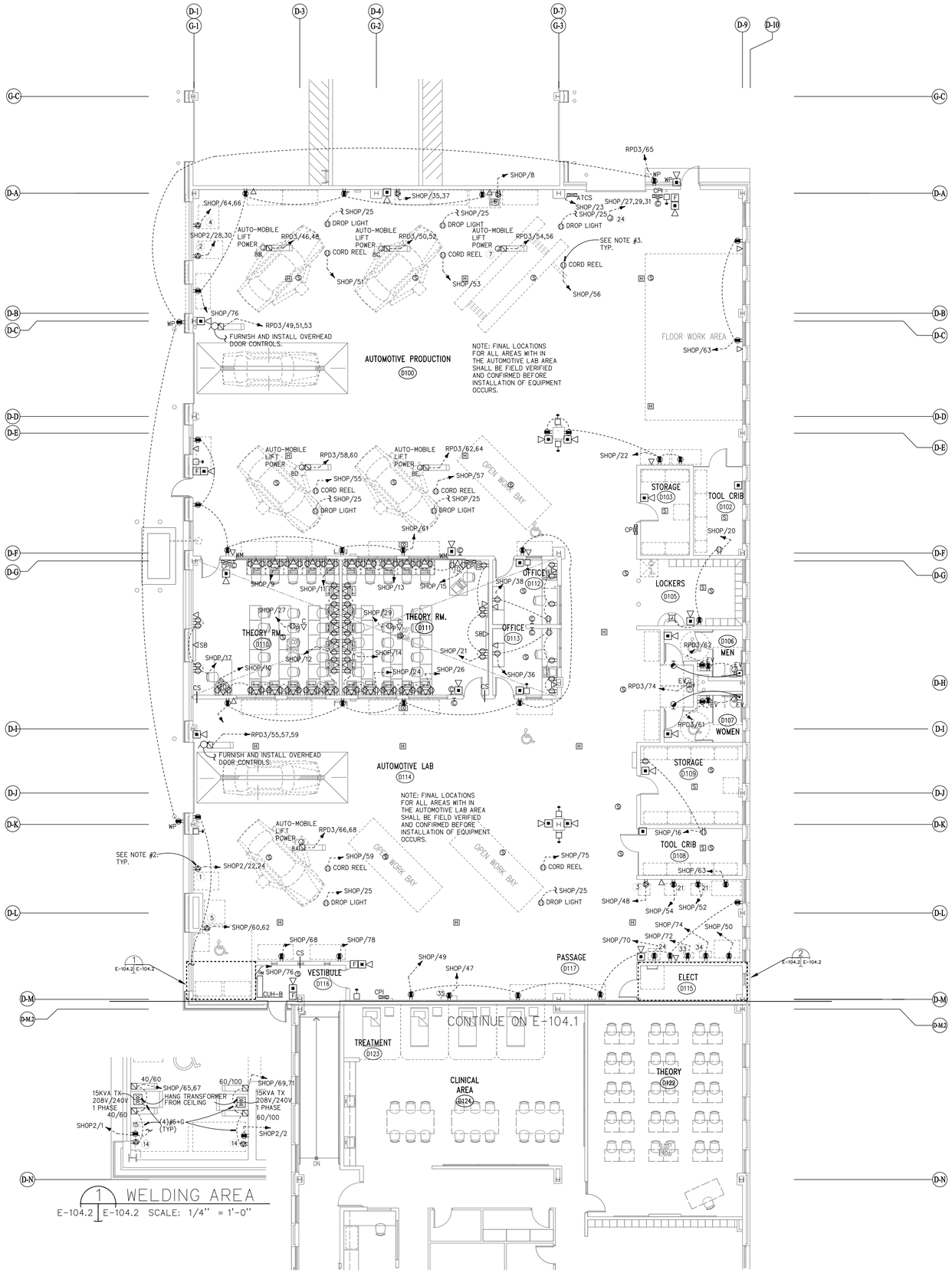
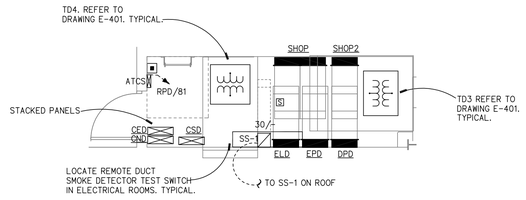




SHOP EQUIPMENT SCHEDULE -AUTOMOTIVE PRODUCTION SHOP

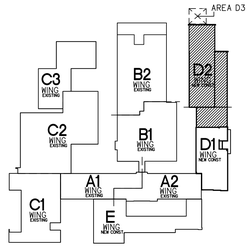
ITEM#	DESCRIPTION	CONNECTION TYPE	"SO"TYPE OF CABLE
1	TIRE CHANGER-LAB	NEMA L6-20R NEMA L6-20P	#10-5
2	TIRE CHANGER- SHOP	NEMA L6-20R NEMA L6-20P	#10-5
3	BRAKE LATHE	NEMA L6-20R NEMA L6-20P	-
4	TIRE BALANCER-SHOP	NEMA L6-20R NEMA L6-20P	-
5	TIRE BALANCER-LAB	NEMA L6-20R NEMA L6-20P	-
6	ALIGNMENT LIFT COMPUTER	-	-
7	ALIGNMENT SCISSOR LIFT-SHOP	NEMA L6-20R NEMA L6-20P	#10-4
8A	LIFTS, 10,000LBS-SHOP&LAB	NEMA L6-20R NEMA L6-20P	#10-5
8B	LIFTS, (RELOCATED)	NEMA L6-20R NEMA L6-20P	#10-5
8C	LIFTS, (RELOCATED)	NEMA L6-20R NEMA L6-20P	#10-5
8D	LIFTS, (RELOCATED)	NEMA L6-20R NEMA L6-20P	#10-5
8E	LIFTS, (RELOCATED)	NEMA L6-20R NEMA L6-20P	#10-5
9	AIR COMPRESSORS	-	-
◈ 10	AIR LINE DRYER	-	-
11	HOT TANK	-	-
12	WASTE OIL CONTAINMENT SYSTEM	-	-
13	-	-	-
14	54" WELDING BENCH	NEMA 14-60R NEMA 14-60P	#6-4
◈ 15	MIG WELDER	NEMA L5-20R NEMA L5-20P	#12-3
16	PULL DOWN AIR LINES	-	-
17	SUSPENDED DROP LIGHTS	NEMA L5-20R NEMA L5-20P	#12-3
18	POWER DROPS (CORD REELS)	NEMA L5-20R NEMA L5-20P	#12-3
19	METAL SHELVING UNITS 24"Dx49"Lx72"H	-	-
20	EXHAUST REMOVAL SYSTEM	-	-
21	VALVE GRINDING MACHINE	-	-
22	BENCH GRINDER	-	-
23	COLD TANK	-	-
◈ 24	PRESS	NEMA L21-30R NEMA L21-30P	#10-5
25	BEAD BLASTING CABINET	-	-
26	MIG WELDER - PORTABLE	-	-
27	FLAMMABLE STORAGE CABINET	-	-
28	TOOL STORAGE CABINET W/DOORS	-	-

NOTE:
EQUIPMENT LOCATIONS EITHER BY REFRENCE TO ARCHITECTURAL DRAWINGS OR BY " ◯ " BY EQUIPMENT.

NOTES:

0. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
1. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT DETAILS.
2. REFER TO DETAILS ON DRAWING E-705 FOR WIRING DETAIL FOR ALL JUNCTION BOX FED EQUIPMENT CONNECTIONS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORP CAP TYPES. TYPICAL.
3. FOR CORD REEL WIRING REFER TO DETAILS ON DRAWING E-705. TYPICAL FOR ALL CORD REELS. REFER TO EQUIPMENT SCHEDULE FOR WIRE TYPE AND CORD CAP TYPES.

◈ COORDINATE THE LOCATION OF THESE EQUIPMENTS WITH OWNER AS REQUIRED.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D2 MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045111E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

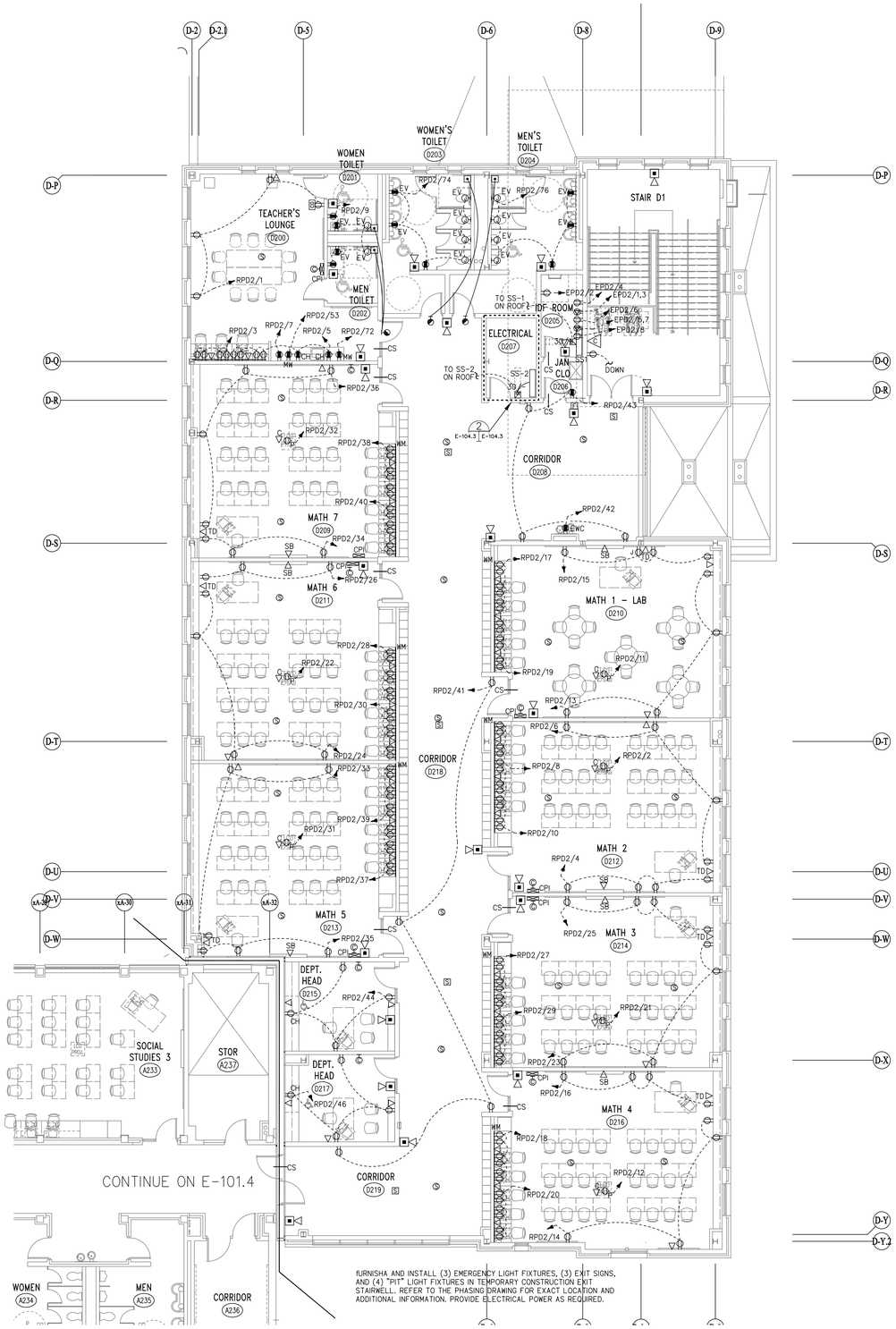
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

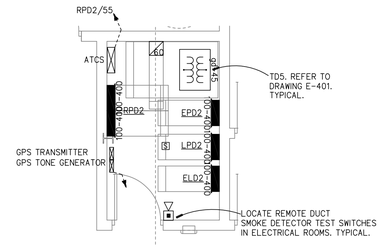
Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

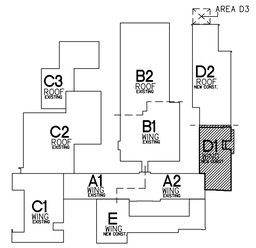
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By -
Approved By -
Drawing No. E-104.2

FILE:045111b REV02/01/2007 17:15 FILE:045111E REV06/20/12 17:42 FILE:045111bg REV04/25/2012 15:26





2 ELECTRICAL ROOM D207
E-104.3 SCALE: 1/4" = 1'-0"



UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. PROVIDE 3/4" PLYWOOD BACKBOARD, 8FT HIGH ON ALL WALL IN IDF D205.

CMR BID DOCUMENTS

Consultant
AltierSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 UPPER LEVEL POWER

REVISIONS

Mark	Date	Description
XX	MM-DD-YY	XXXXX YYYYY ZZZZZ
XX	MM-DD-YY	XXXXX YYYYY ZZZZZ
XX	MM-DD-YY	XXXXX YYYYY ZZZZZ
XX	MM-DD-YY	XXXXX YYYYY ZZZZZ
XX	MM-DD-YY	XXXXX YYYYY ZZZZZ

CAD No. 045122E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

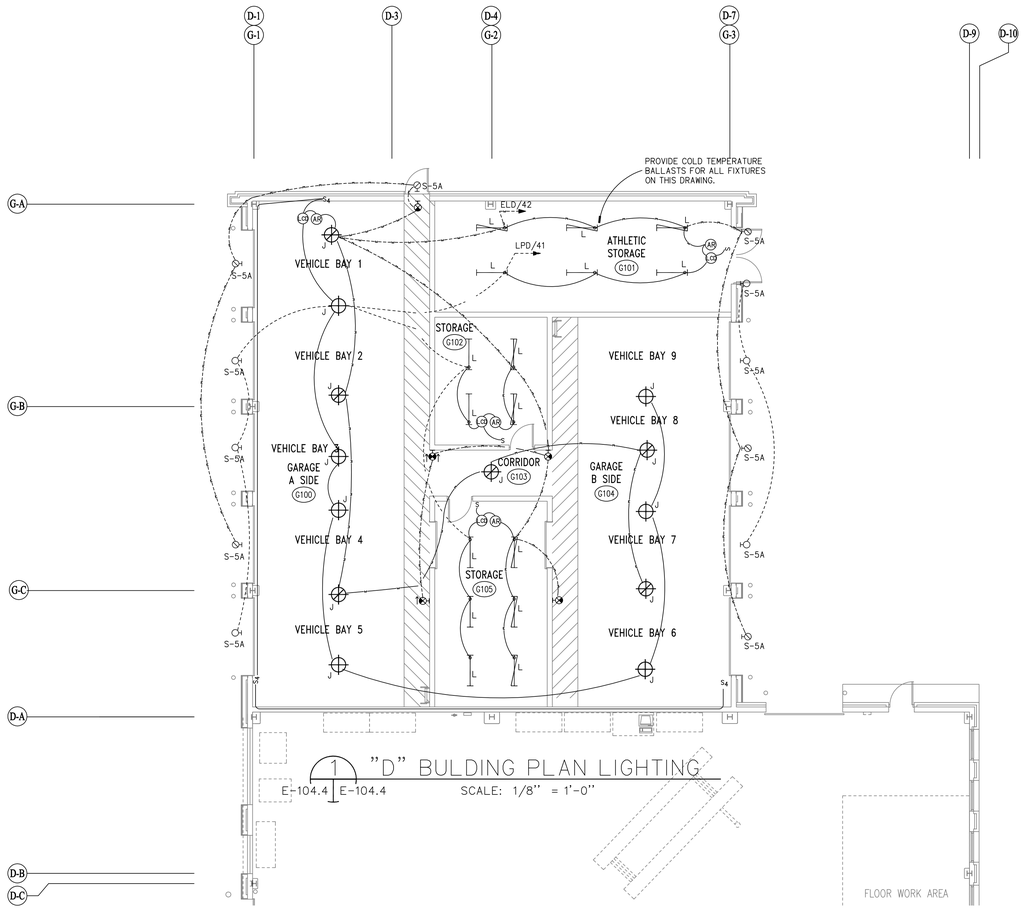
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

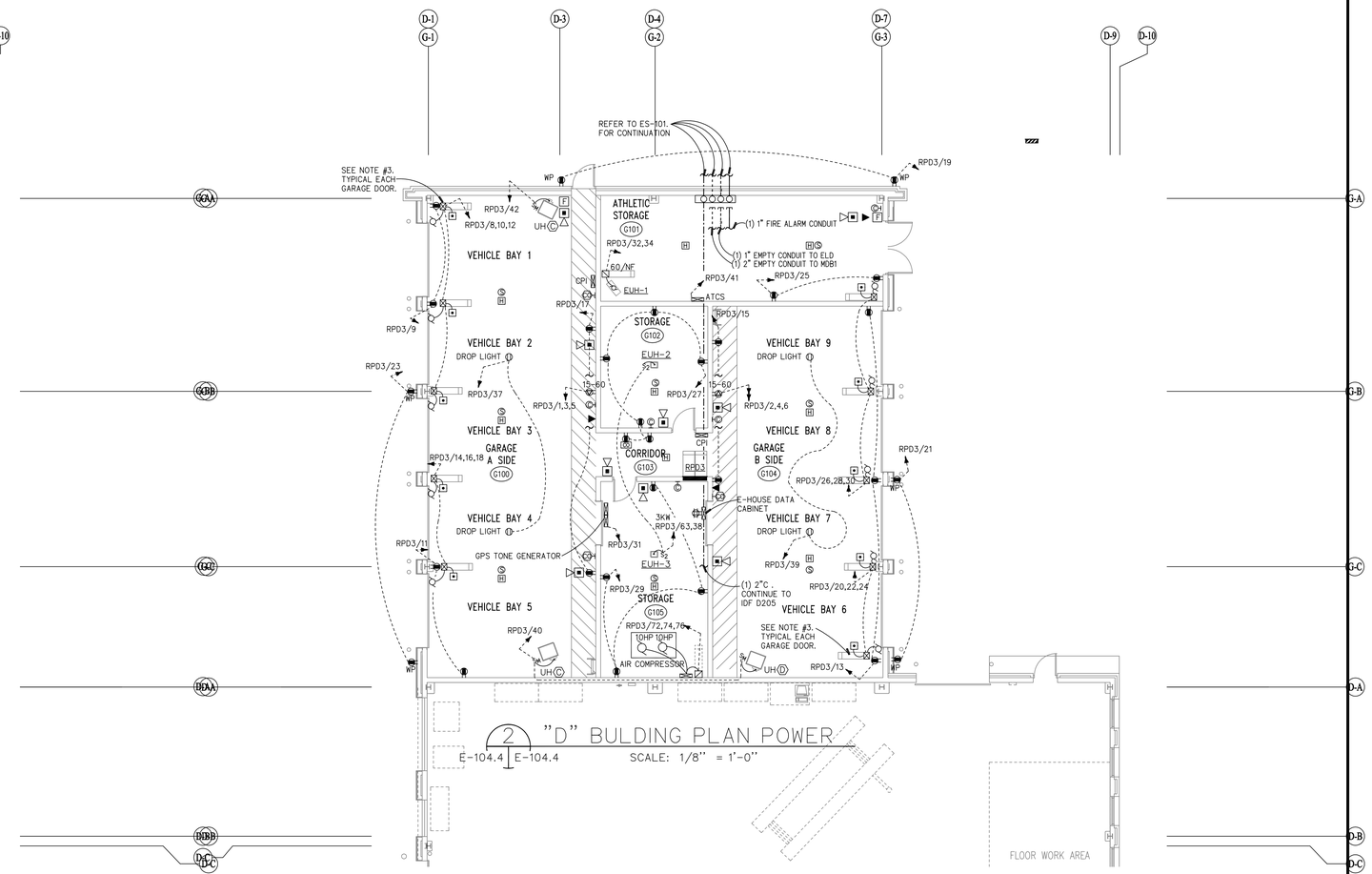
Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-104.3

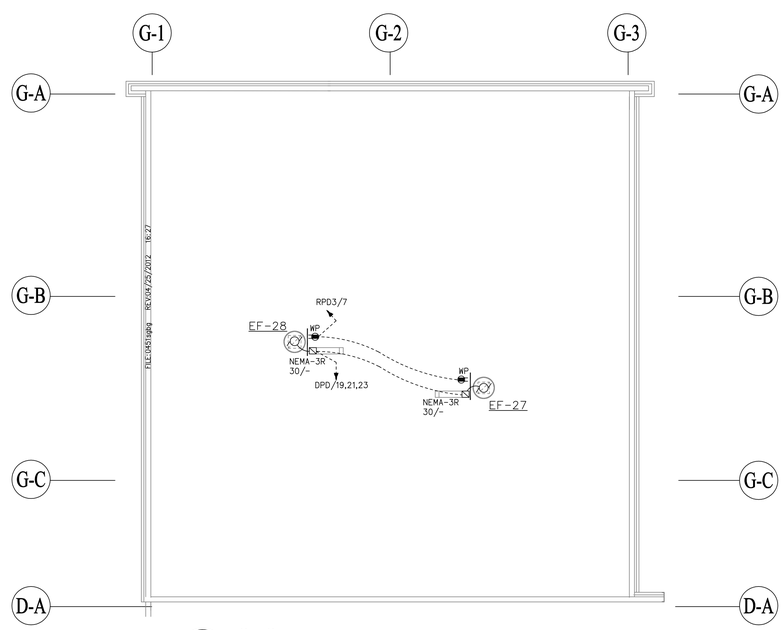
FILE:D451b REV:02/01/2007 17:15



1 "D" BULDING PLAN LIGHTING
E-104.4 | E-104.4 SCALE: 1/8" = 1'-0"



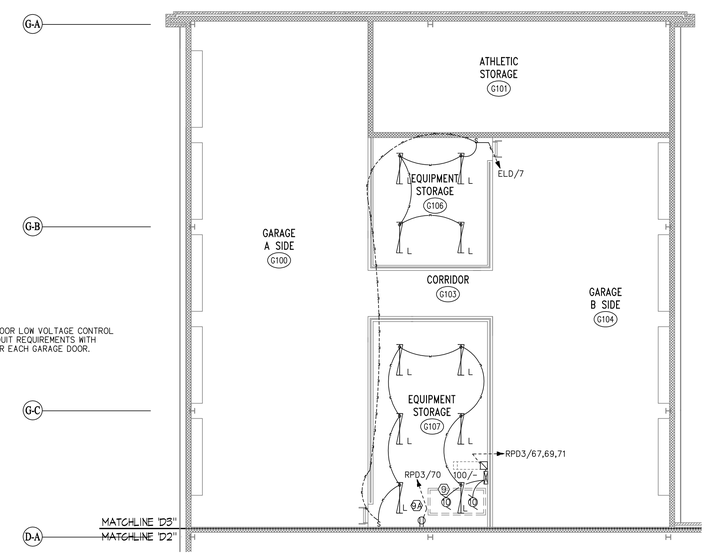
2 "D" BULDING PLAN POWER
E-104.4 | E-104.4 SCALE: 1/8" = 1'-0"



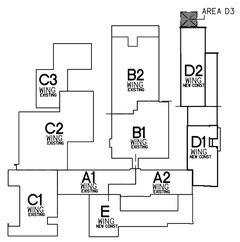
3 "D" BULDING ROOF PLAN
E-104.4 | E-104.4 SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. PROVIDE ALL CONDUITS REQUIRED FOR GARAGE DOOR LOW VOLTAGE CONTROL AND SAFETY-SWITCHES WIRING. COORDINATE CONDUIT REQUIREMENTS WITH GARAGE DOOR SUPPLIER/INSTALLER. TYPICAL FOR EACH GARAGE DOOR.



4 "D" BULDING PLATFORM PLAN
E-104.4 | E-104.4 SCALE: 1/8" = 1'-0"



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D3 MAIN LEVEL ELECTRICAL – ALTERNATE

REVISIONS

Mark	Date	Description

CAD No. 0451SGE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-104.4

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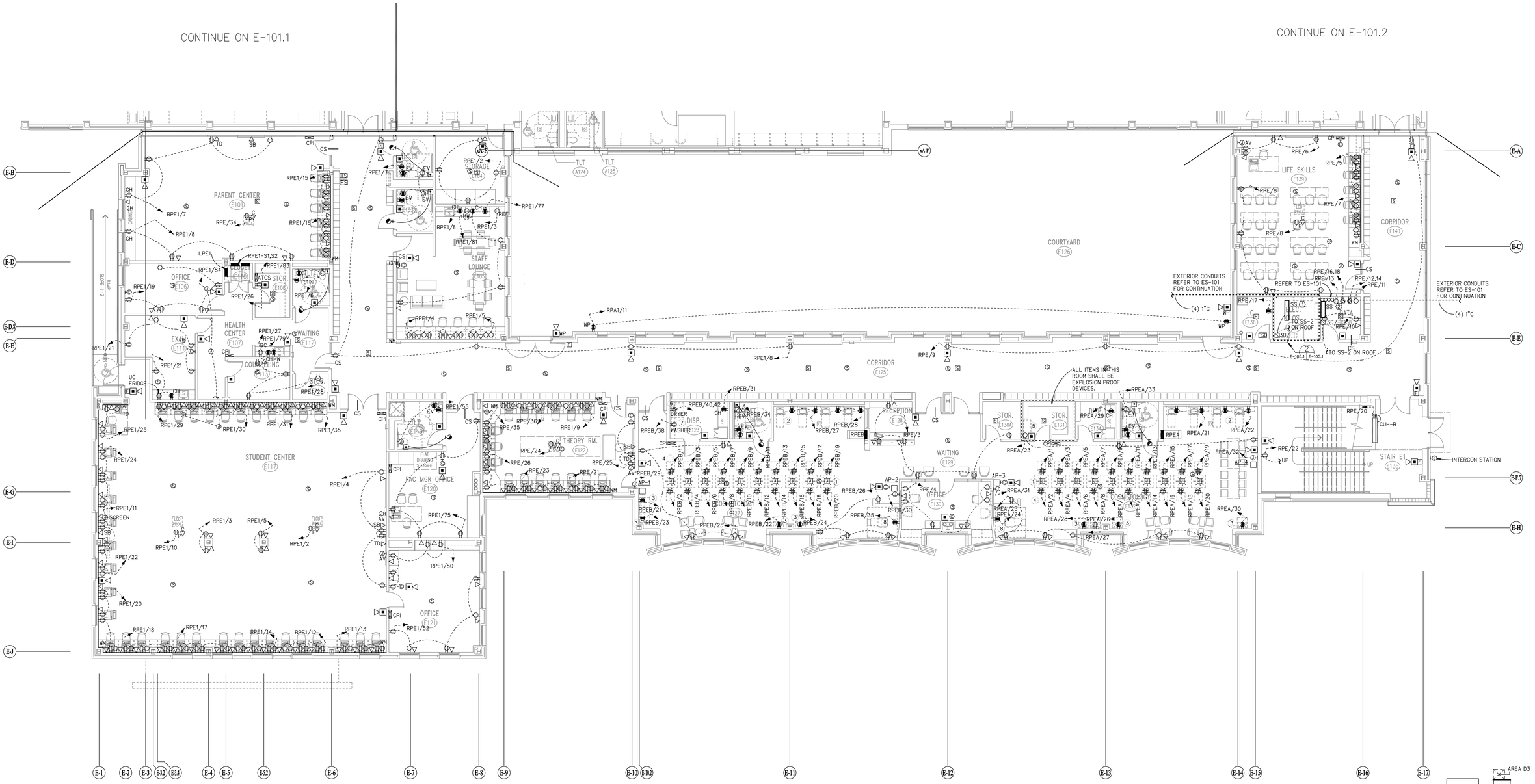
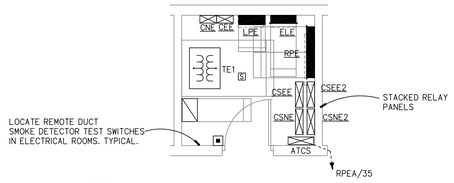
FILE:0451SGE REV:06/20/12 16:24



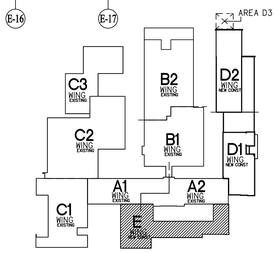
SHOP EQUIPMENT SCHEDULE - COSMETOLOGY SHOP				
	ITEM#	DESCRIPTION	CORD CAP TYPES	TYPE OF CABLE
DUB DUPL RECEP	1	TWO-STATION COSMETOLOGY STAND	-	-
	2	SHAMPOO STATION WITH SEATING	-	-
DUB DUPL RECEP	3	HAIR DRYERS	-	-
	4	STYLING CHAIR	-	-
	5	FLAMMABLE STORAGE CABINET	-	-
2P-40A	6	CLOTHES DRYER	-	-
1P-20A	7	CLOTHES WASHER	-	-



2 ELECTRICAL ROOM E137
E-105.1 | E-105.1 SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. PROVIDE 3/4" PLYWOOD BACKBOARD, 8FT HIGH ON ALL WALL IN DATA E138.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E MAIN LEVEL POWER

REVISIONS

Mark	Date	Description

CAD No. 045114E

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

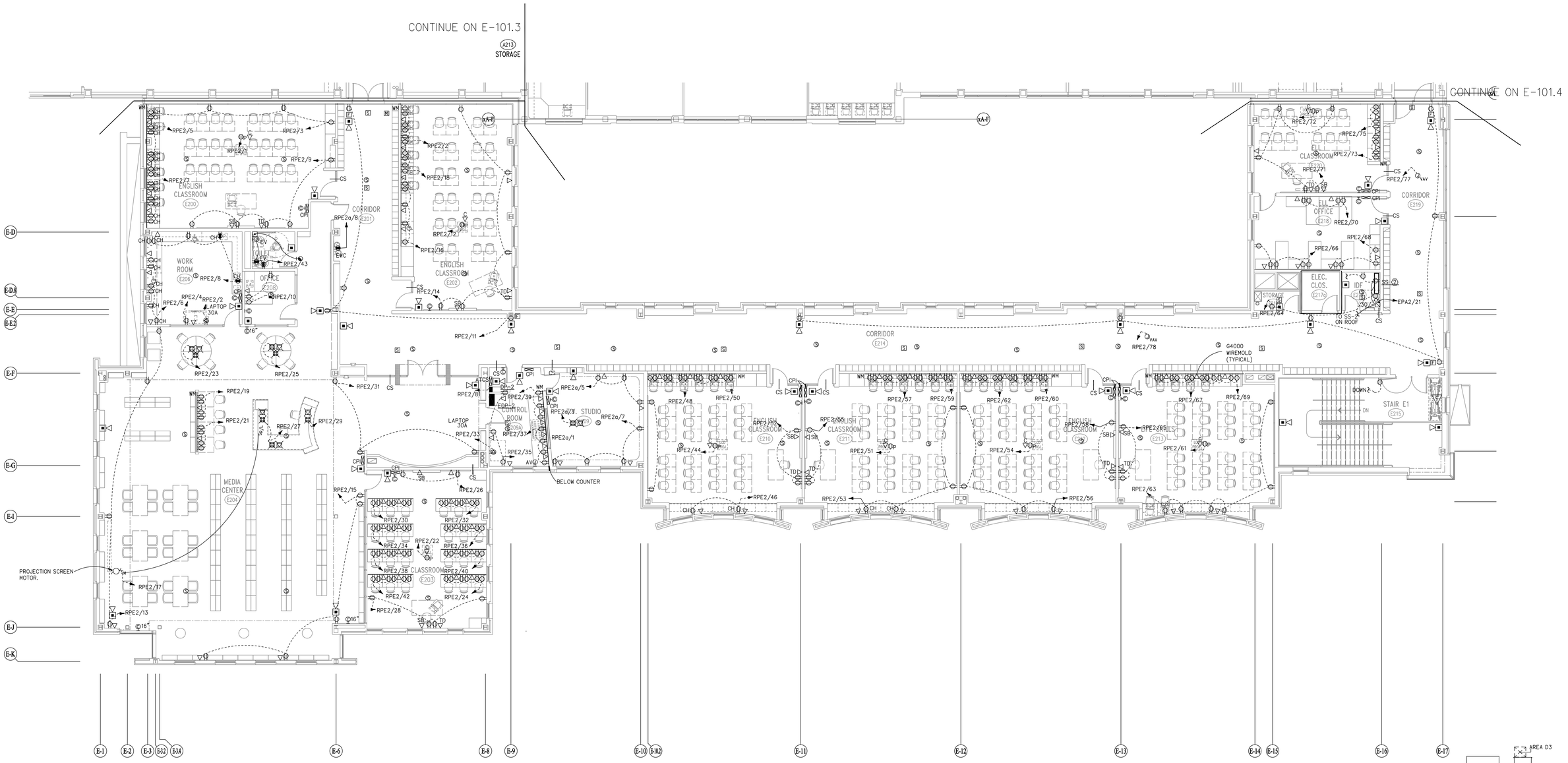
Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

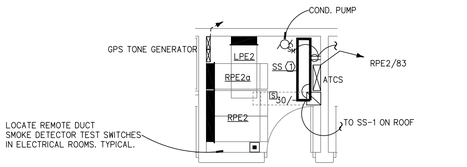
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By XYZ
Approved By XYZ
Drawing No. E-105.1

FILE:045114E REV:06/20/12 16:53
FILE:045114bg REV:04/25/2012 10:28
FILE:045114b REV:02/01/2007 17:15



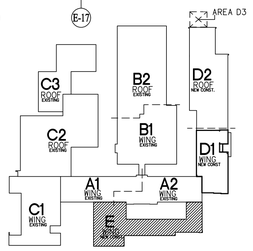
NOTES:

1. PROVIDE 3/4" PLYWOOD BACKBOARD, 8FT HIGH ON ALL WALL IN IDF E217.



2 ELECTRICAL ROOM E217A

E-105.2 | E-105.2 SCALE: 1/4" = 1'-0"



UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA E UPPER LEVEL POWER	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PAUL C. RIZZO, No. 22011, ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
CAD No. 045124E		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012; Scale 1/8"=1'-0"; Drawn By –; Approved By –; Drawing No. E-105.2

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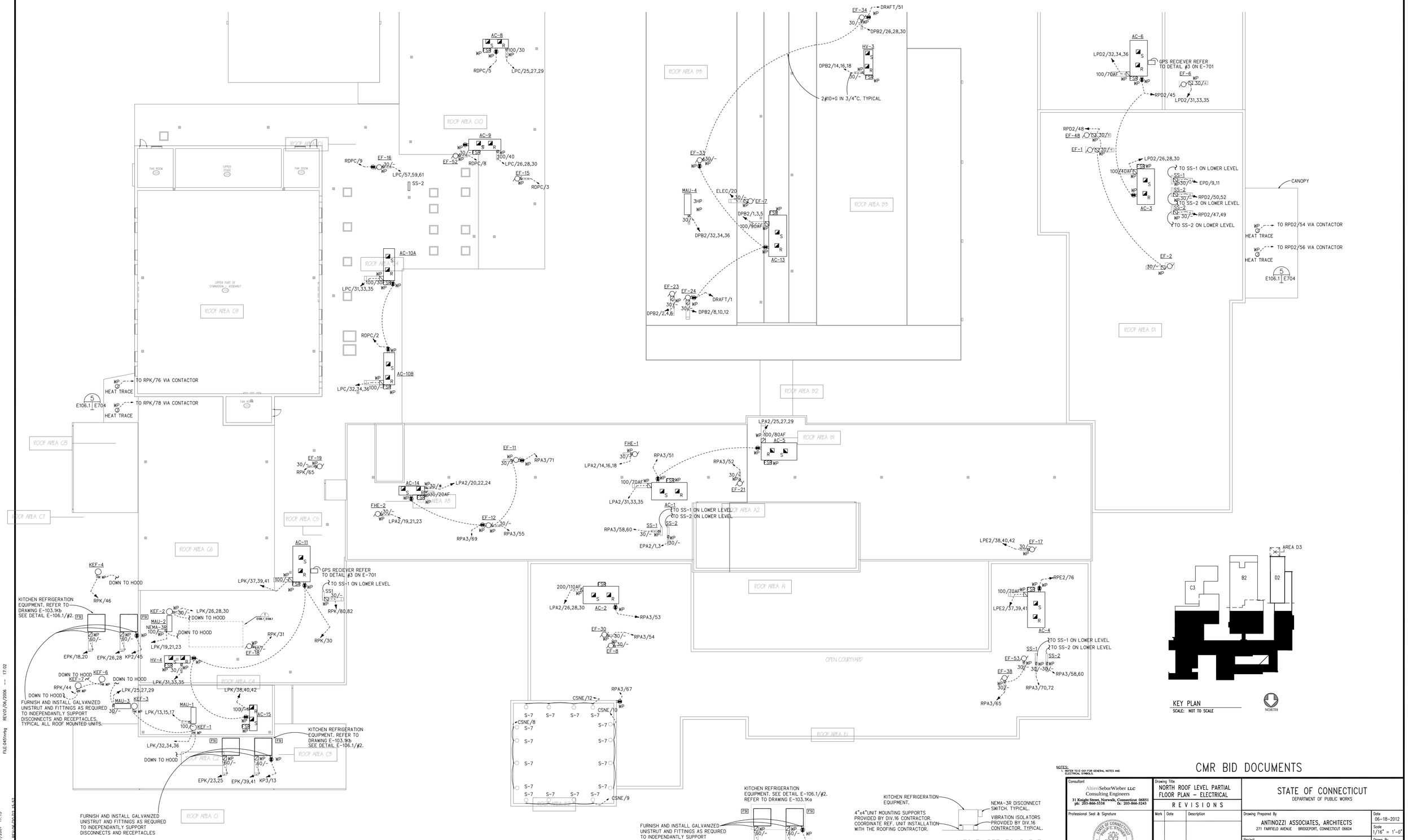
FILE:045124E REV:02/01/2007 17:15

FILE:045124E REV:06/20/12 16:53



NOTES:
1. REFER TO E-000 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant
AlfieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Mark	Date	Description

CAD No. 0451NRE

Drawing Title
NORTH ROOF LEVEL PARTIAL FLOOR PLAN – ELECTRICAL

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/16" = 1'-0"
Drawn By SD
Approved By JML
Drawing No. E-106.1

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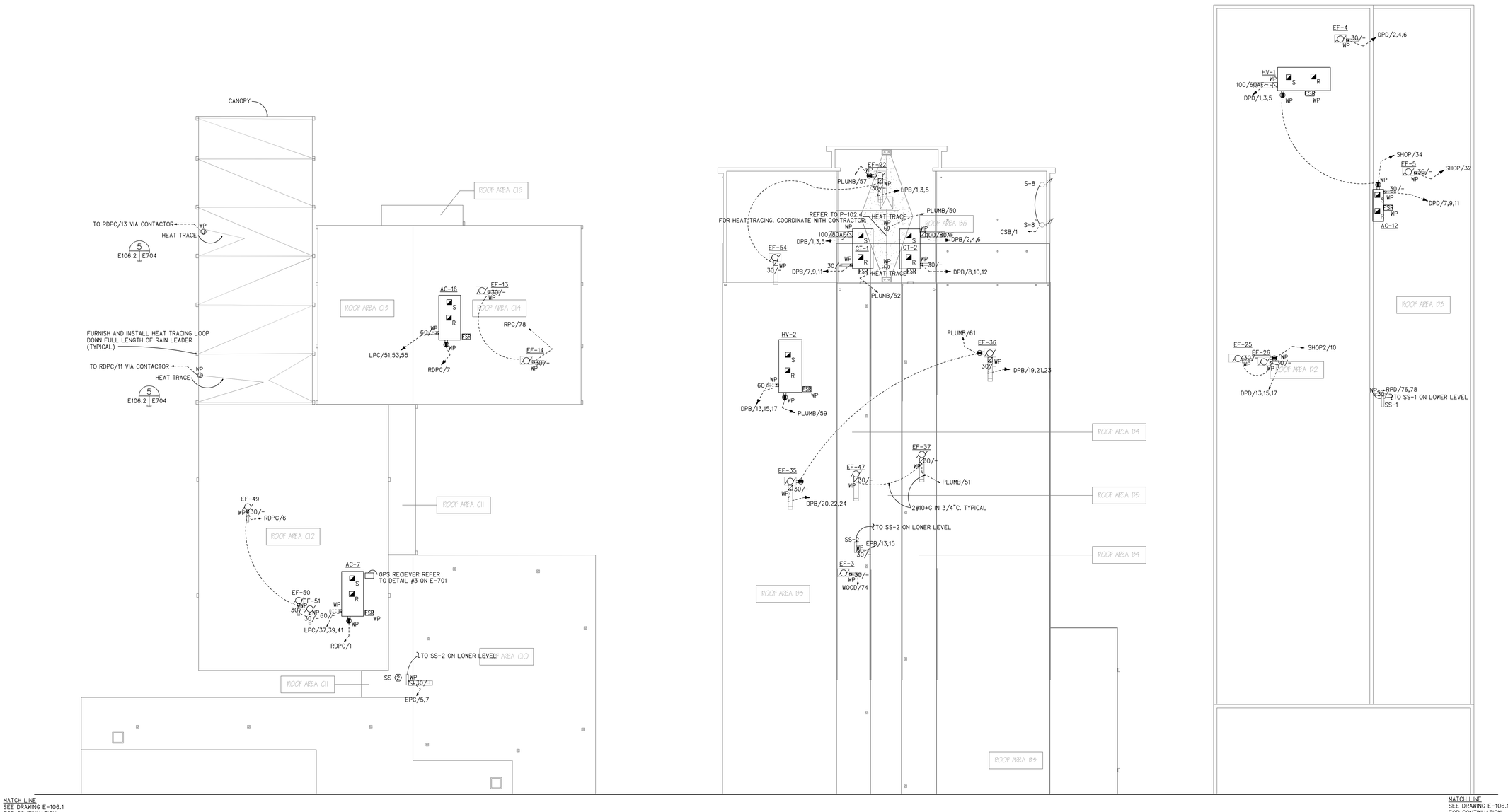

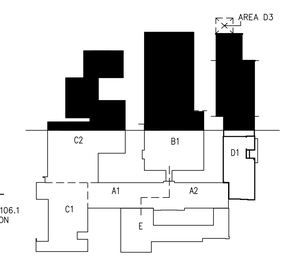

KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5318 fx: 203-866-3243	Drawing Title SOUTH ROOF PARTIAL PLAN ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PAUL C. BYRNE No. 22272 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 04515RE	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012
Scale 1/16" = 1'-0"
Drawn By SO
Approved By JML
Drawing No. E-106.2

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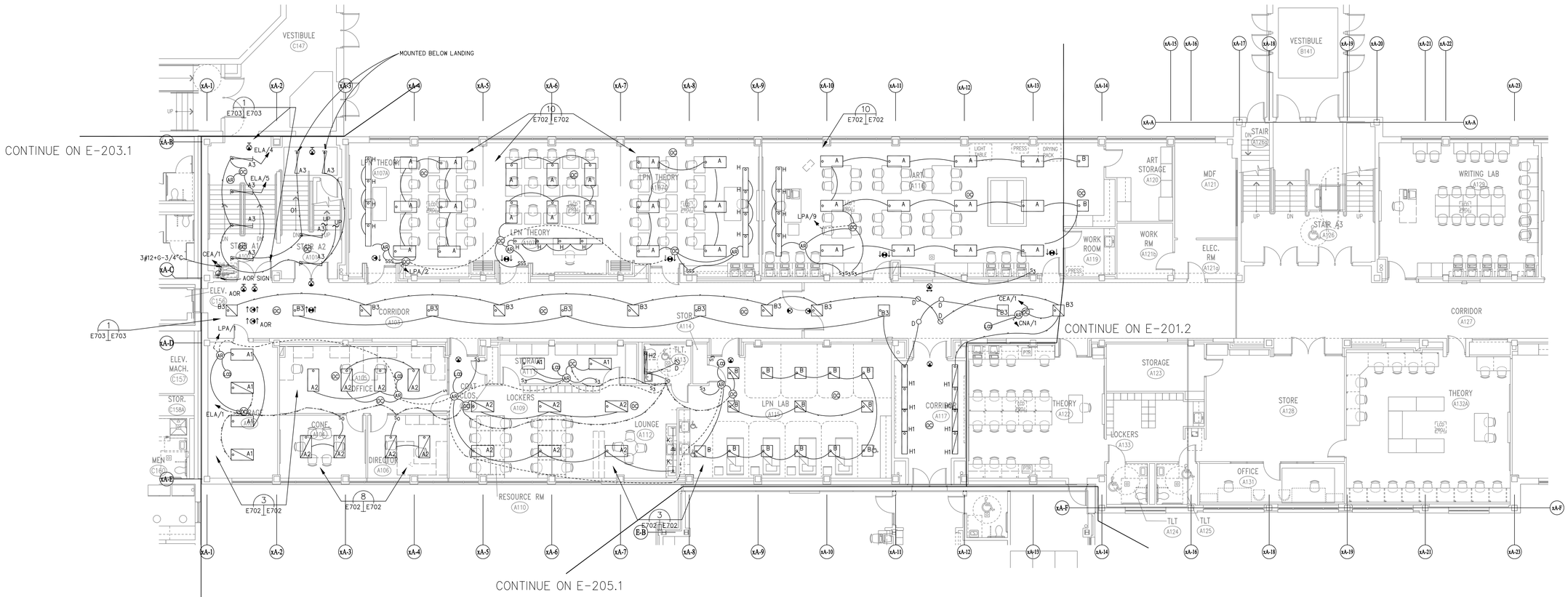

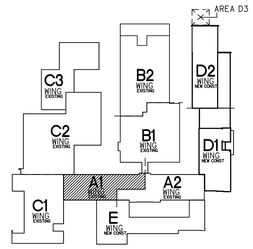

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A1 MAIN LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045115L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-201.1

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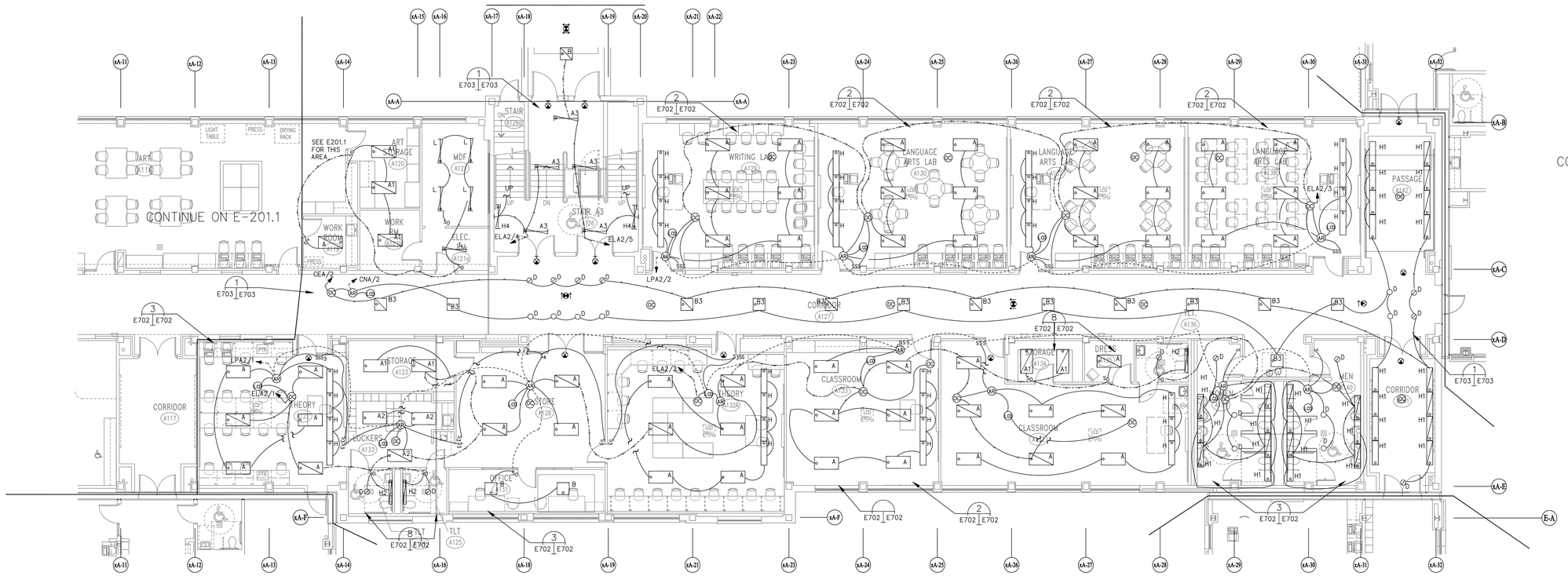
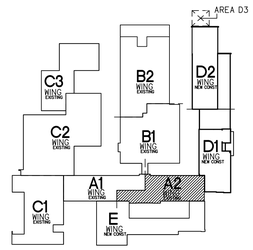
FILE:045115E REC: 06/18/2012 08:36





MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA A2 MAIN LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045113L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-201.2

FILE:045113b REV02/01/2007 17:15 FILE:045113C REV07/13/06 18:32 FILE:045113e REV04/25/2012 13:15
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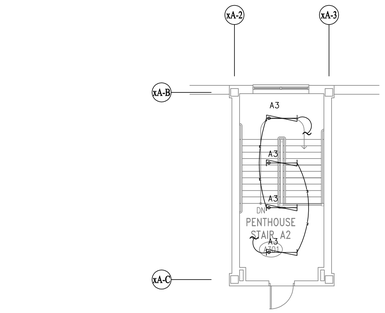
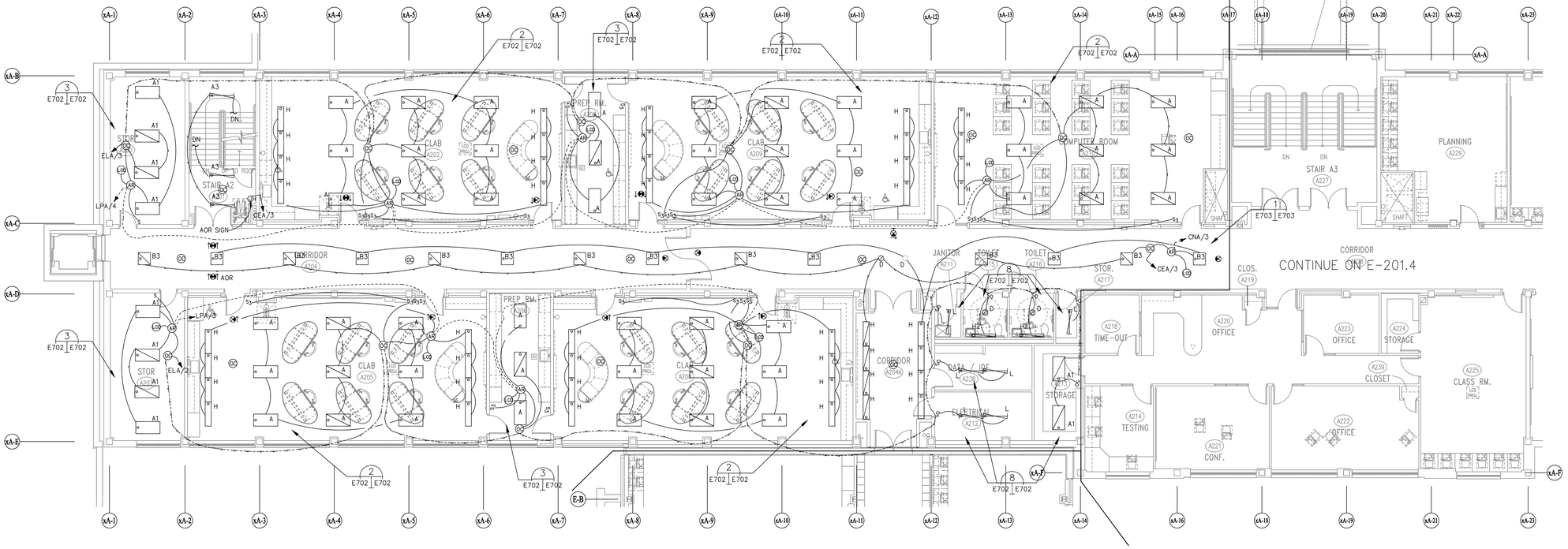
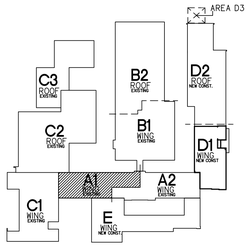






UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

CMR BID DOCUMENTS

Consultant

AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT
STEVEN C. BYRNE
No. 20274
LICENSED PROFESSIONAL ENGINEER

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title

AREA A1 UPPER LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045125L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By

ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

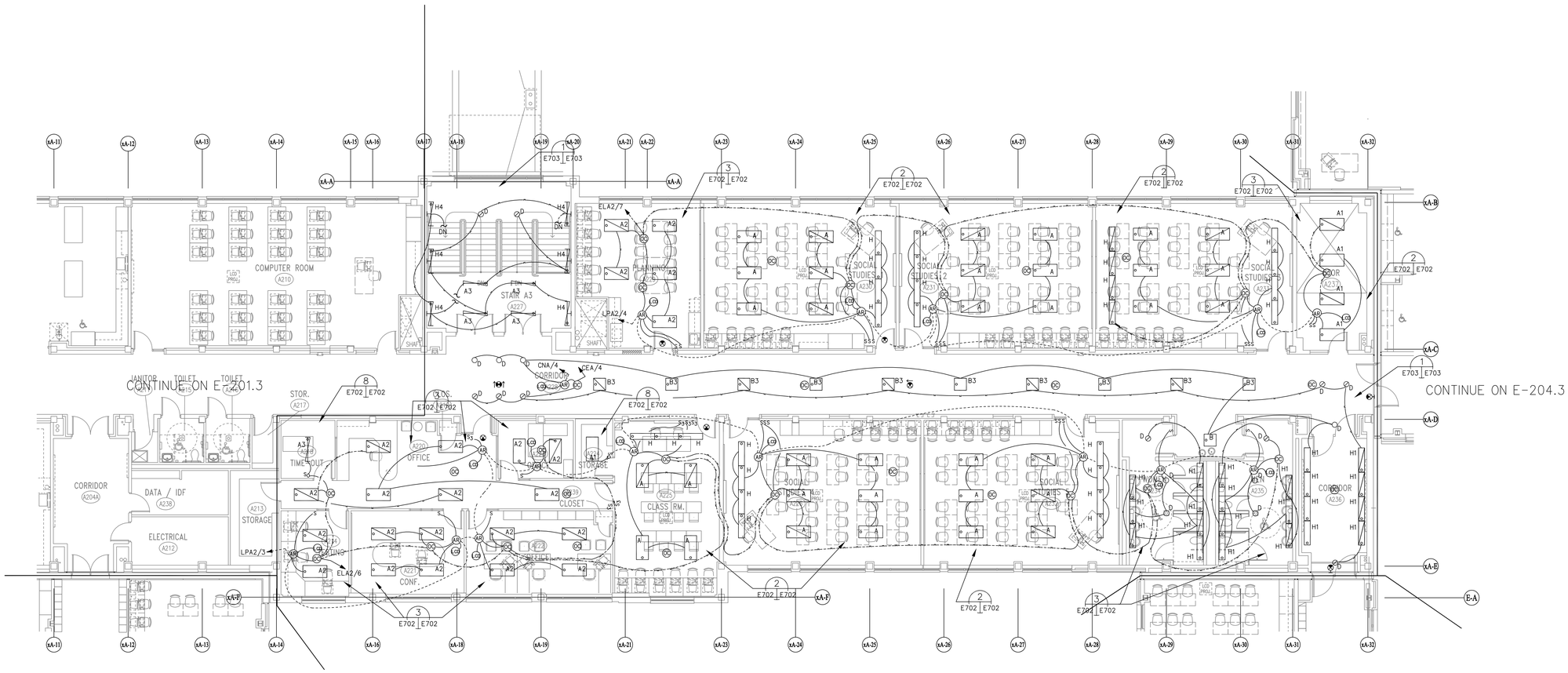
Project

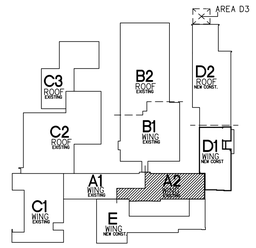
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-201.3

FILE:045115b REV02/01/2007 17:15 FILE:045125g REV04/26/2012 14:08
FILE:045125E REV07/ REV08/ REV12: 11:34





UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

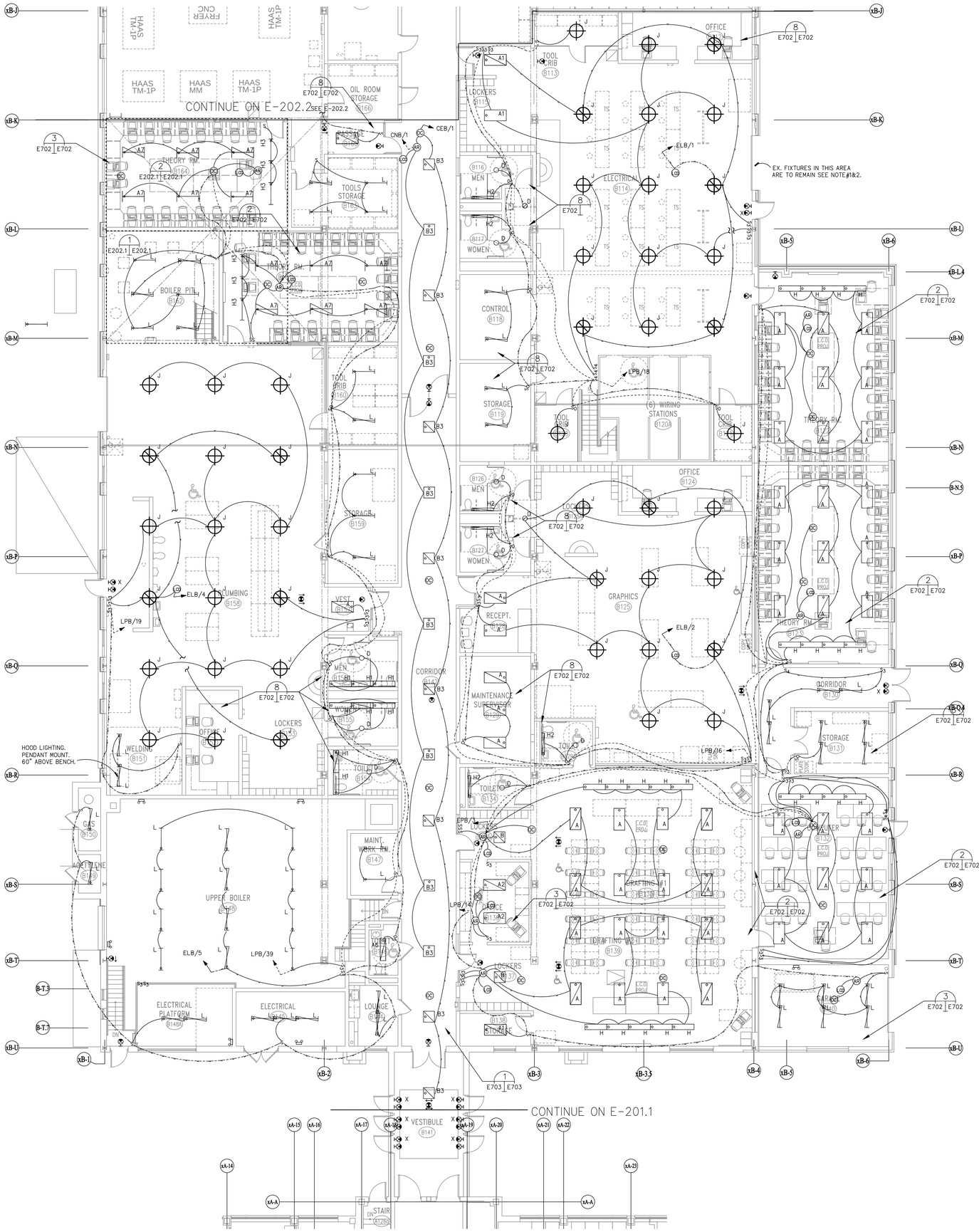
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

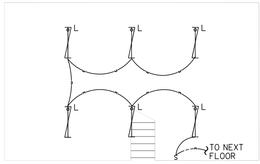
CMR BID DOCUMENTS

Consultant AlbieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 UPPER LEVEL LIGHTING	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045123L	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

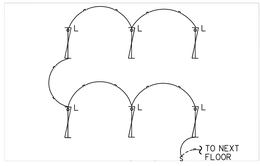
Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	RML
Approved By	AK
Drawing No.	E-201.4

FILE:04518b REV:02/01/2007 17:15 FILE:045123bg REV:04/26/2012 15:10
FILE:045123E REV:07/**NOV06/F13OR**2 08:46



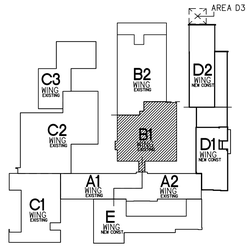


1 PLUMBING ROOM MEZZANINE
E202.1 E202.1 SCALE: 1/8" = 1''-0"



2 ELECTRICAL ROOM PLATFORM LIGHTING
E202.1 E202.1 SCALE: 1/8" = 1''-0"

NOTES:
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-3243

Professional Seal & Signature
STATE OF CONNECTICUT
PAUL C. BYRNE
No. 22172
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA B1 MAIN LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045116L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-202.1

FILE:045116 REV02/01/2007 17:15 FILE:045116G REV04/25/2012 09:21
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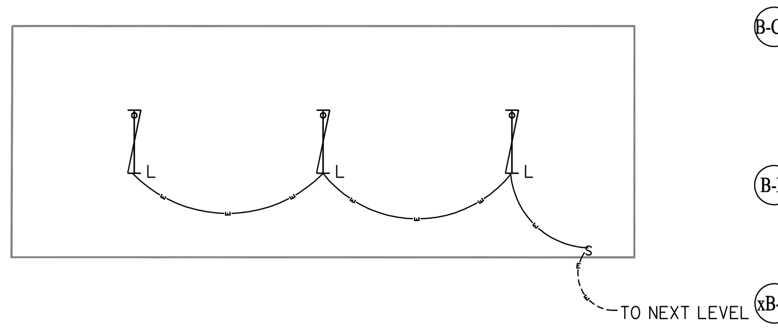
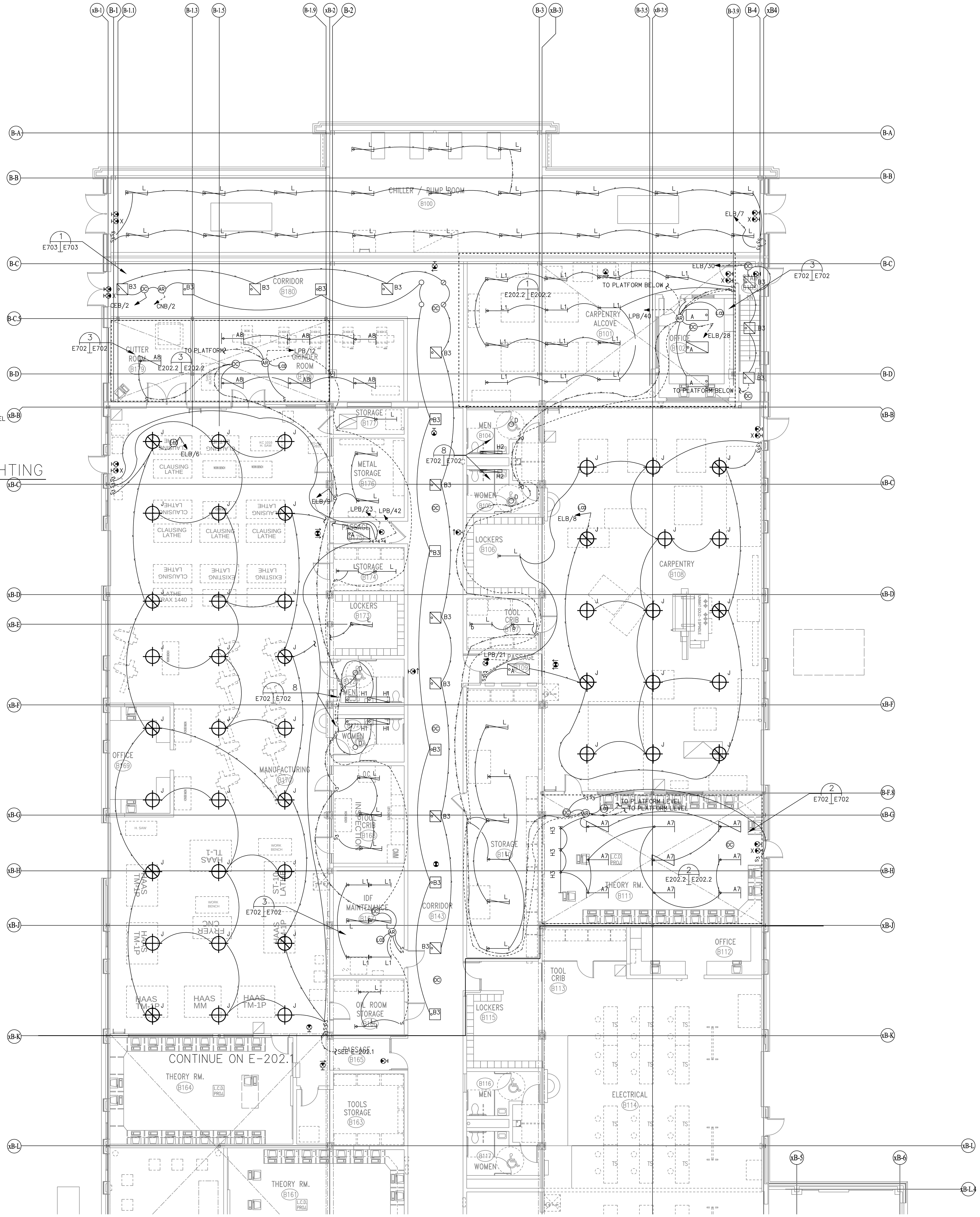


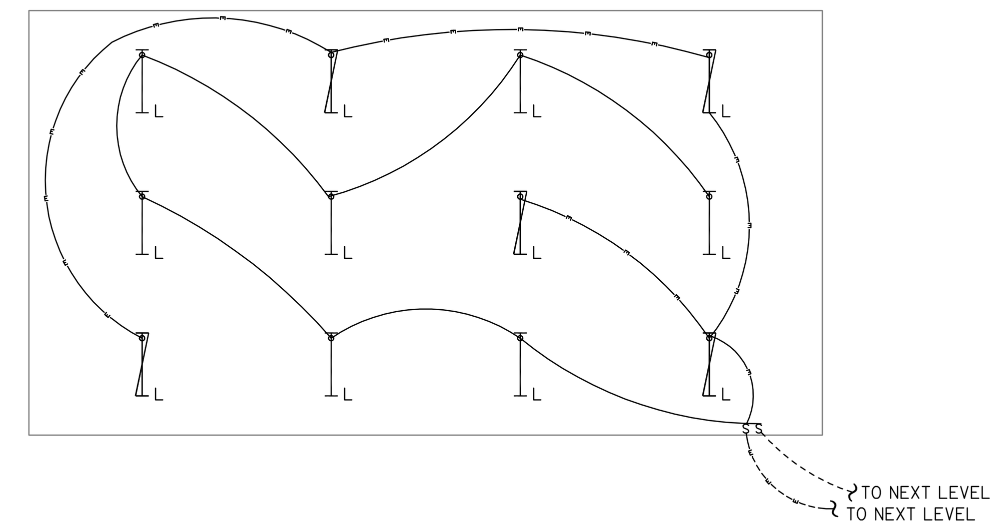
COMPUTER PLATFORM -LIGHTING

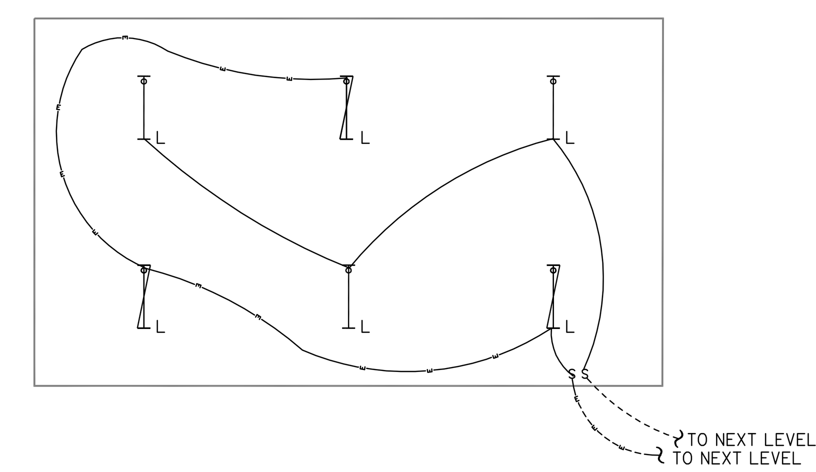
3 E202.2 | E202.2 SCALE: 1/8" = 1'-0"



CARPENTRY ROOM PLATFORM -LIGHTING

1 E202.2 | E202.2 SCALE: 1/8" = 1'-0"



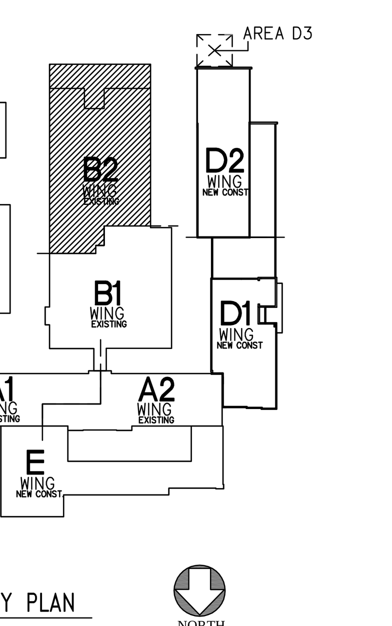


THEORY ROOM PLATFORM -LIGHTING

2 E202.2 | E202.2 SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



MAIN LEVEL KEY PLAN

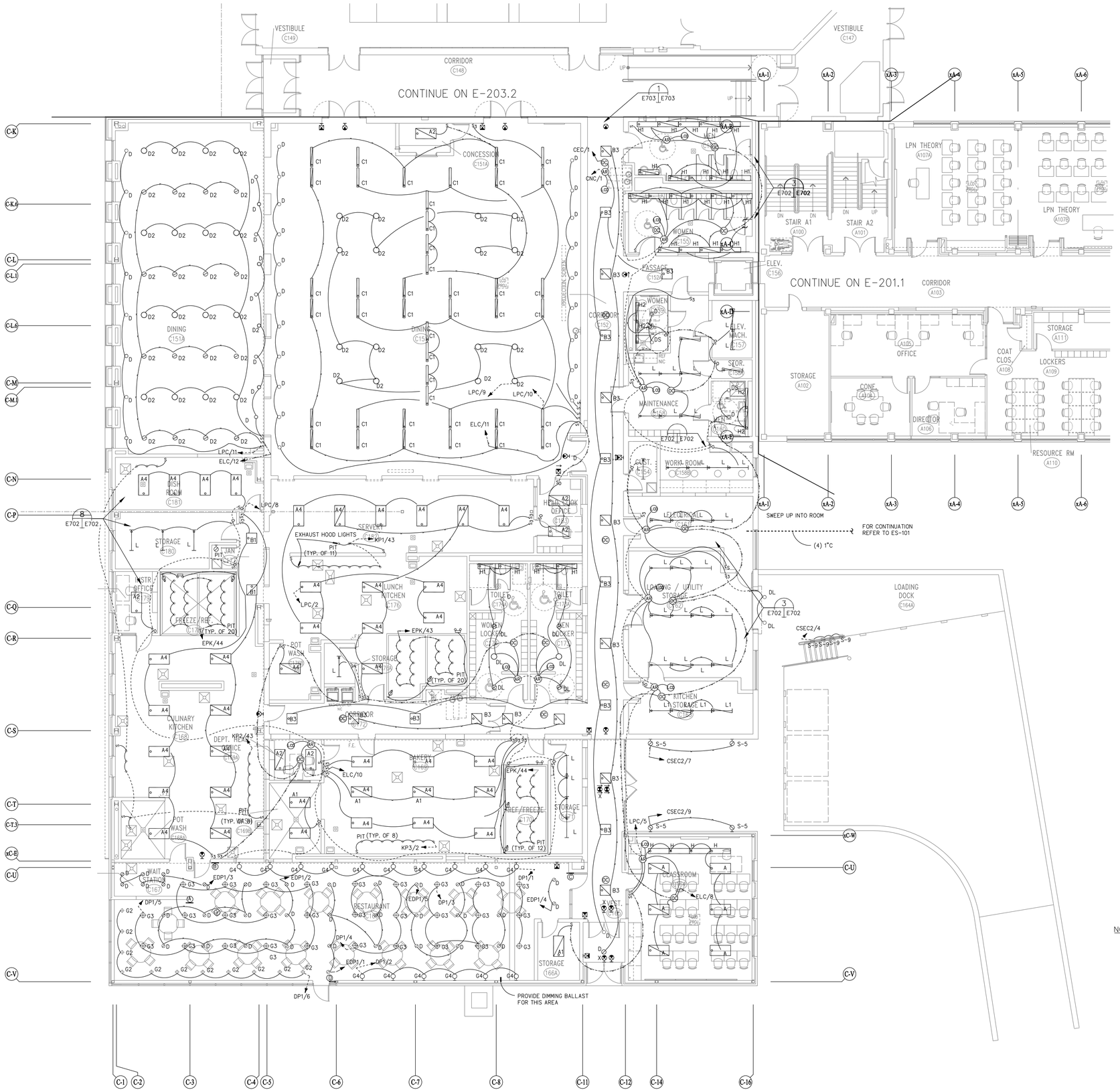
SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA B2 MAIN LEVEL LIGHTING REVISIONS	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045117L	Project No. BI-RT-837

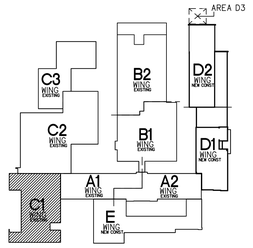
Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By -
Approved By -
Drawing No. E-202.2

FILE:0451tb REV:02/01/2007 17:15 FILE:045117bg REV:04/25/2012 09:22
FILE:045117E REV:07/14/06 12:23
FILE:045117L REV:06/20/12 15:47



NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.
3. REFER TO DRAWING E-502 FOR ADDITIONAL INFORMATION



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: AREA C1 MAIN LEVEL LIGHTING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045118L	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012; Scale 1/8"=1'-0"; Drawn By –; Approved By –; Drawing No. E-203.1

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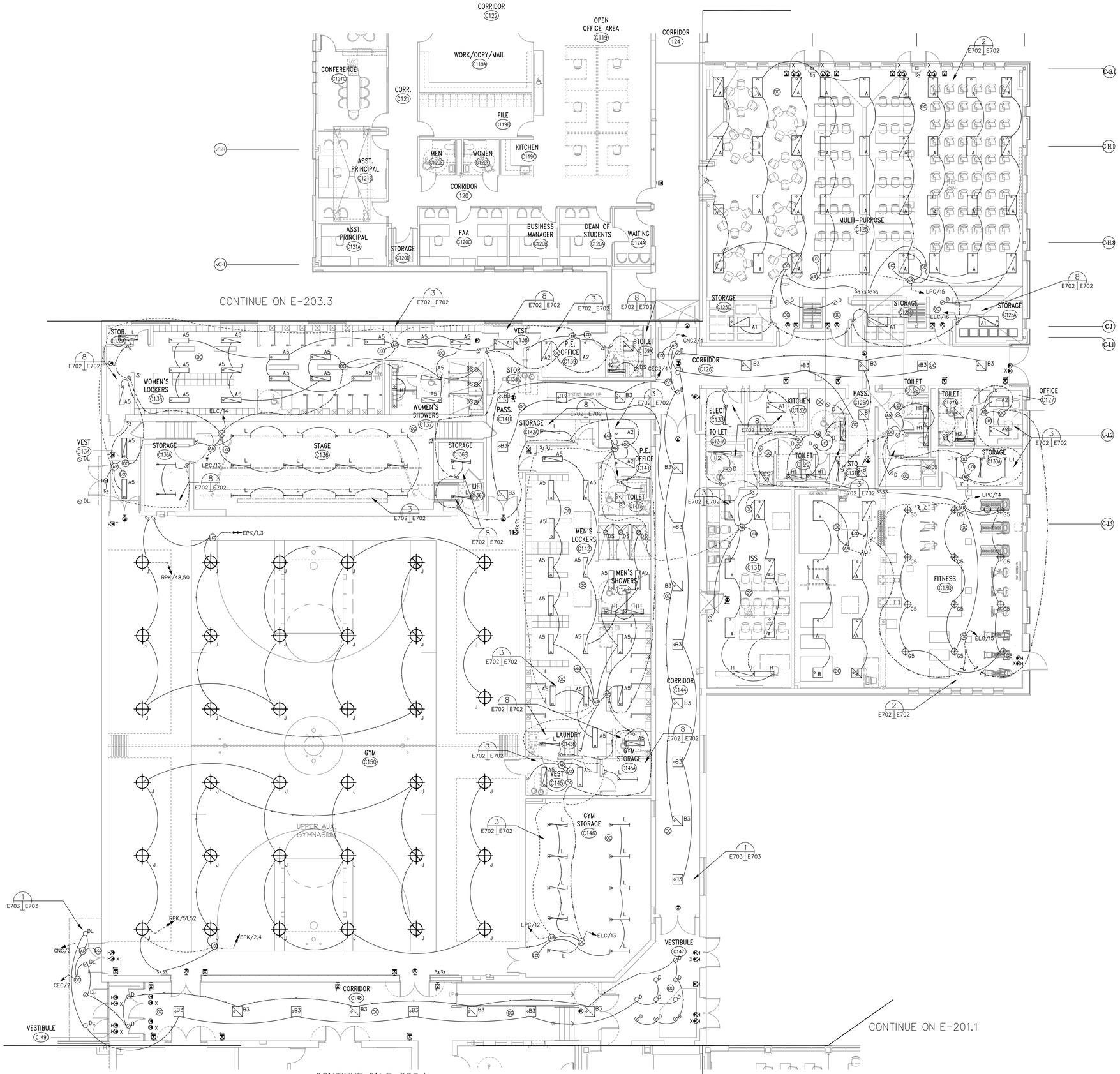
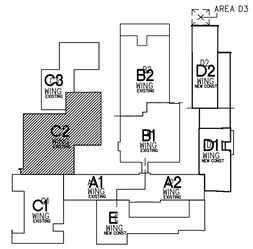
REF:045118



NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C2 MAIN LEVEL - LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045119L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-203.2

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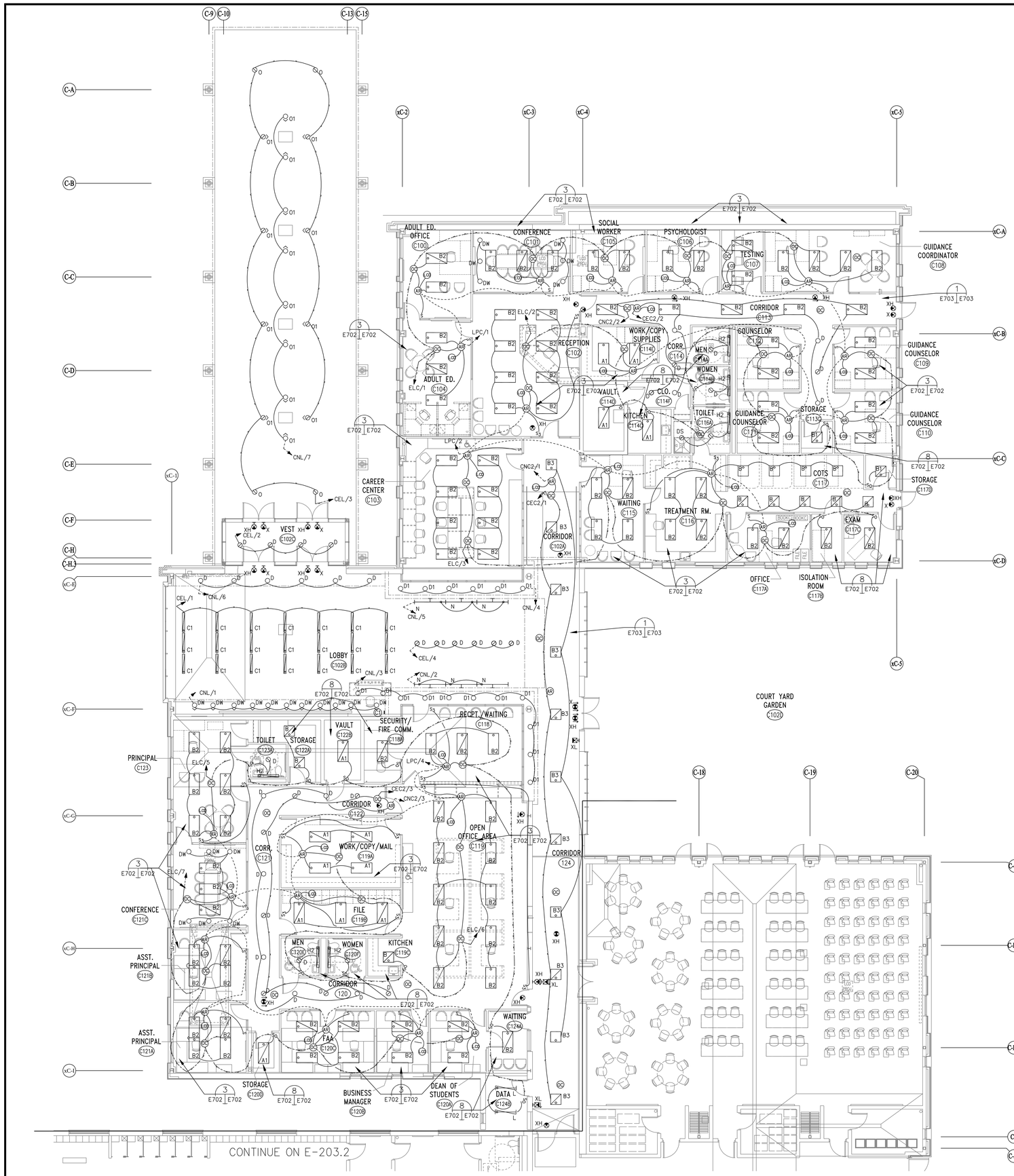
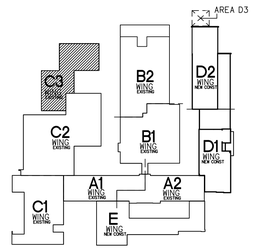
FILE:045119E REV:07/14/08 14:48
FILE:045119P REV:06/20/12 15:18





NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.
2. REFER TO ER-100 FOR REMOVAL GENERAL NOTES AND REMOVAL DRAWING NOTES.

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: AREA C3 MAIN LEVEL LIGHTING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PROFESSIONAL ENGINEER, No. 22016 — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045110L	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	-
Approved By	-
Drawing No.	E-203.3

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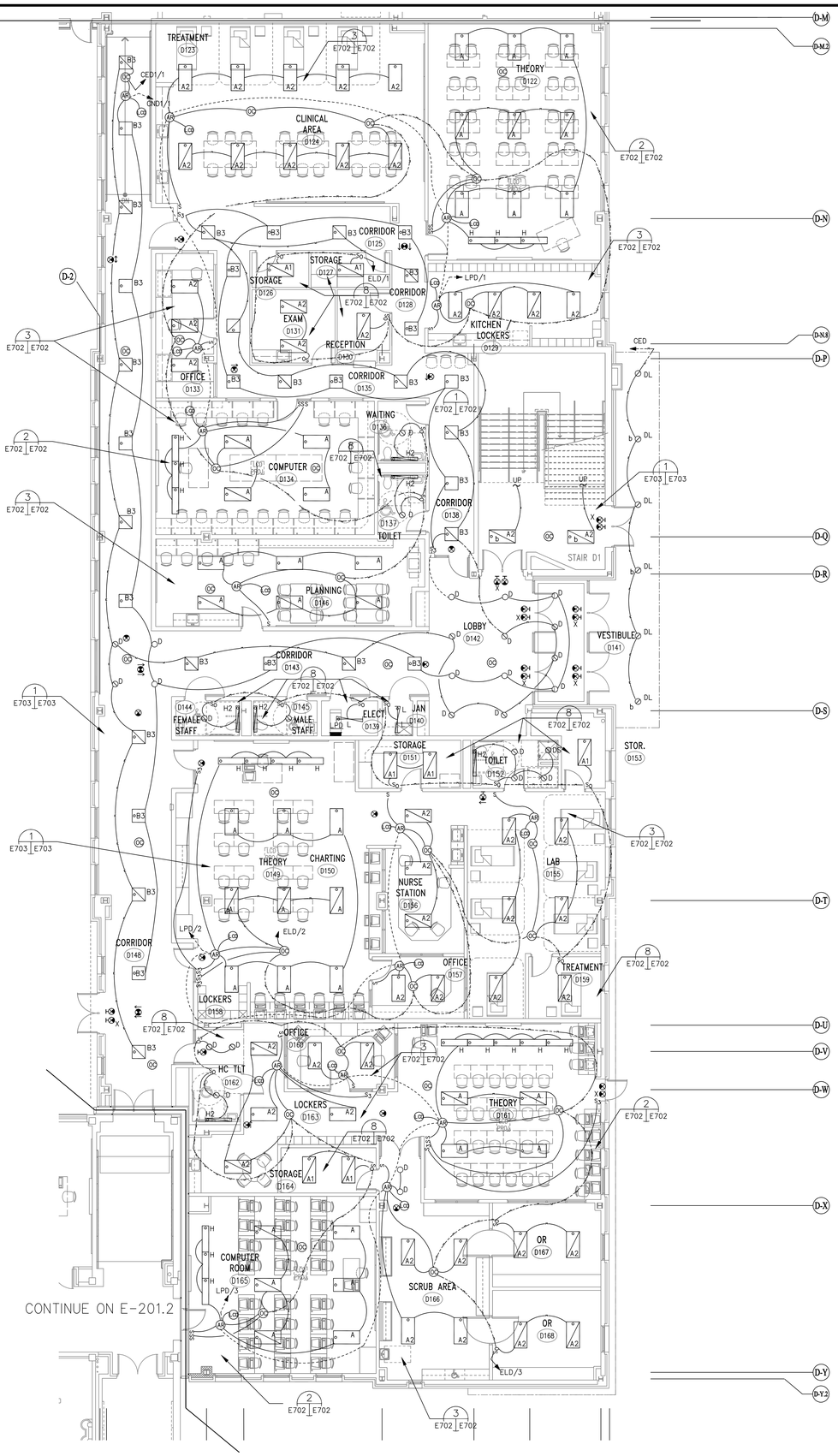
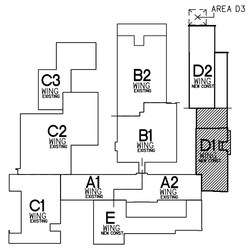


NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: AREA D1 MAIN LEVEL LIGHTING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PROFESSIONAL ENGINEER, No. 22010 — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045112L	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: –
Approved By: –
Drawing No.: E-204.1

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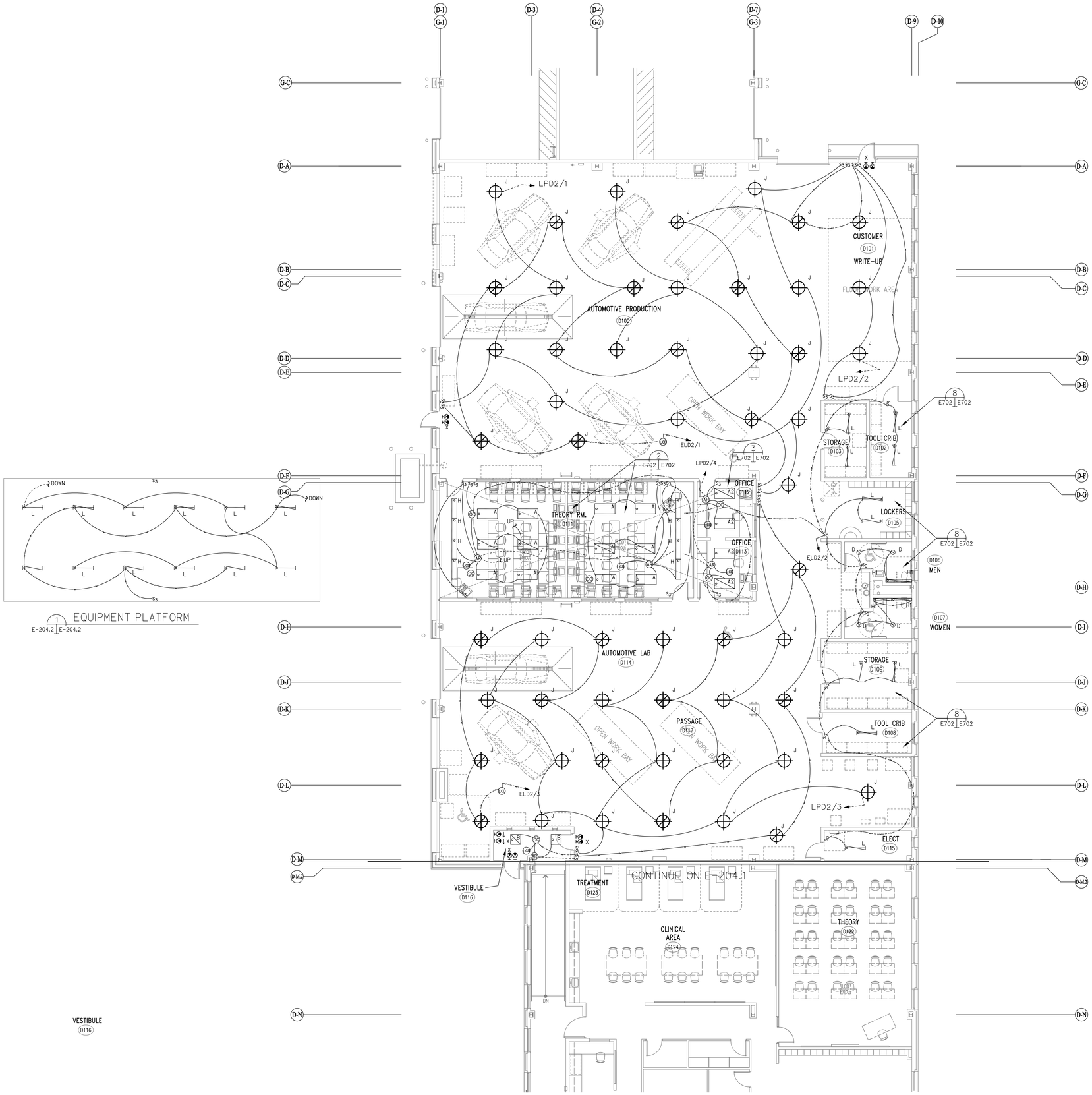

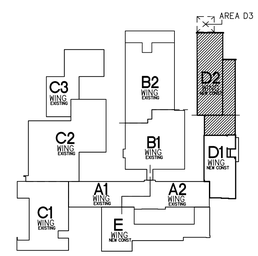

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NOTES:
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant: AlfieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA D2 MAIN LEVEL LIGHTING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045111L	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012; Scale 1/8"=1'-0"; Drawn By –; Approved By –; Drawing No. E-204.2

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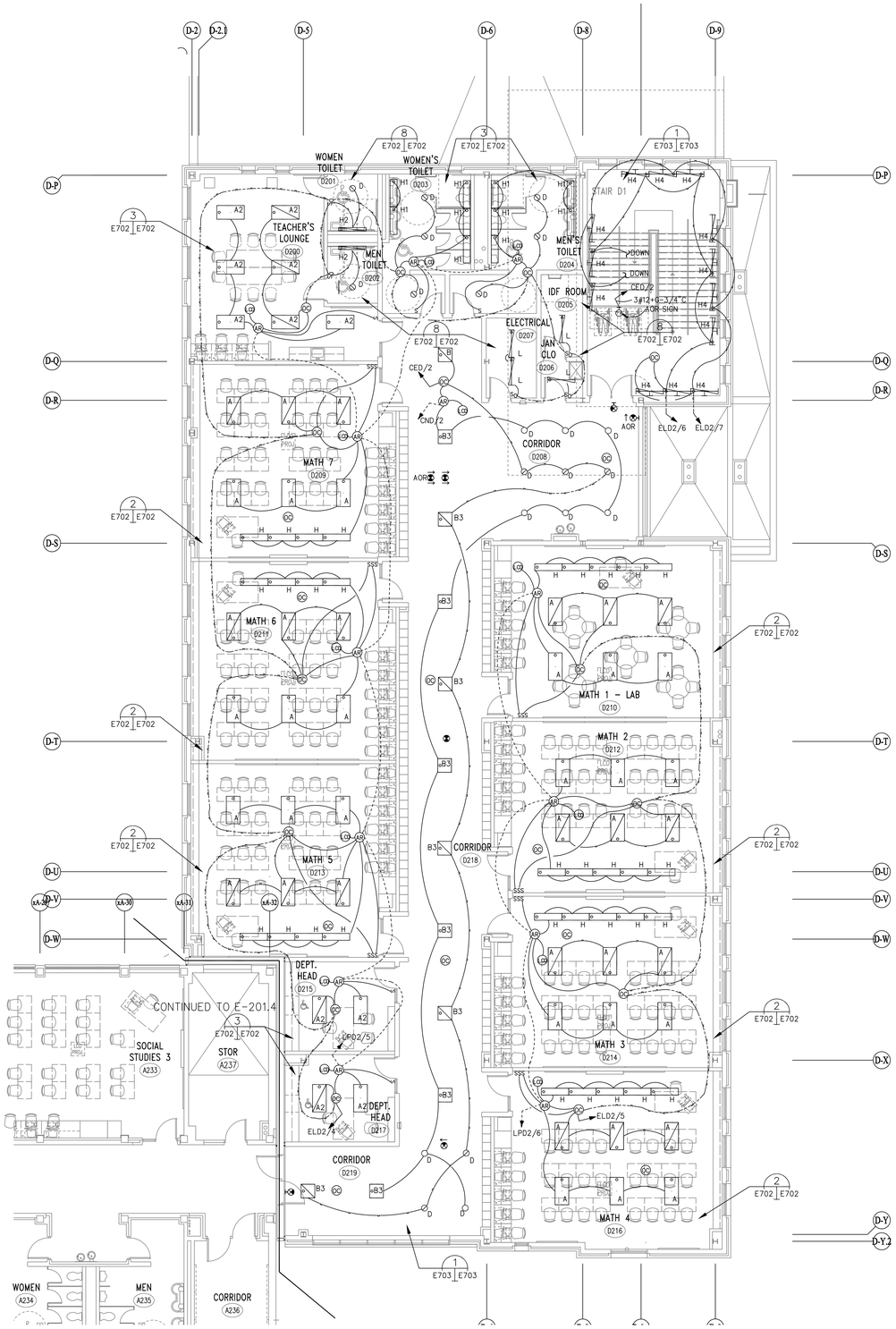

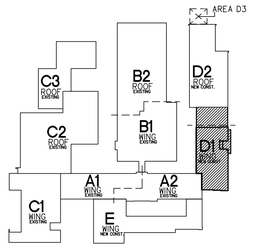

UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant: AltieriSeboriWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: AREA D1 UPPER LEVEL LIGHTING	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045122L	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012
		Scale 1/8"=1'-0"
		Drawn By –
		Approved By –
		Drawing No. E-204.3

FILE:045t1b REV:02/01/2007 17:15
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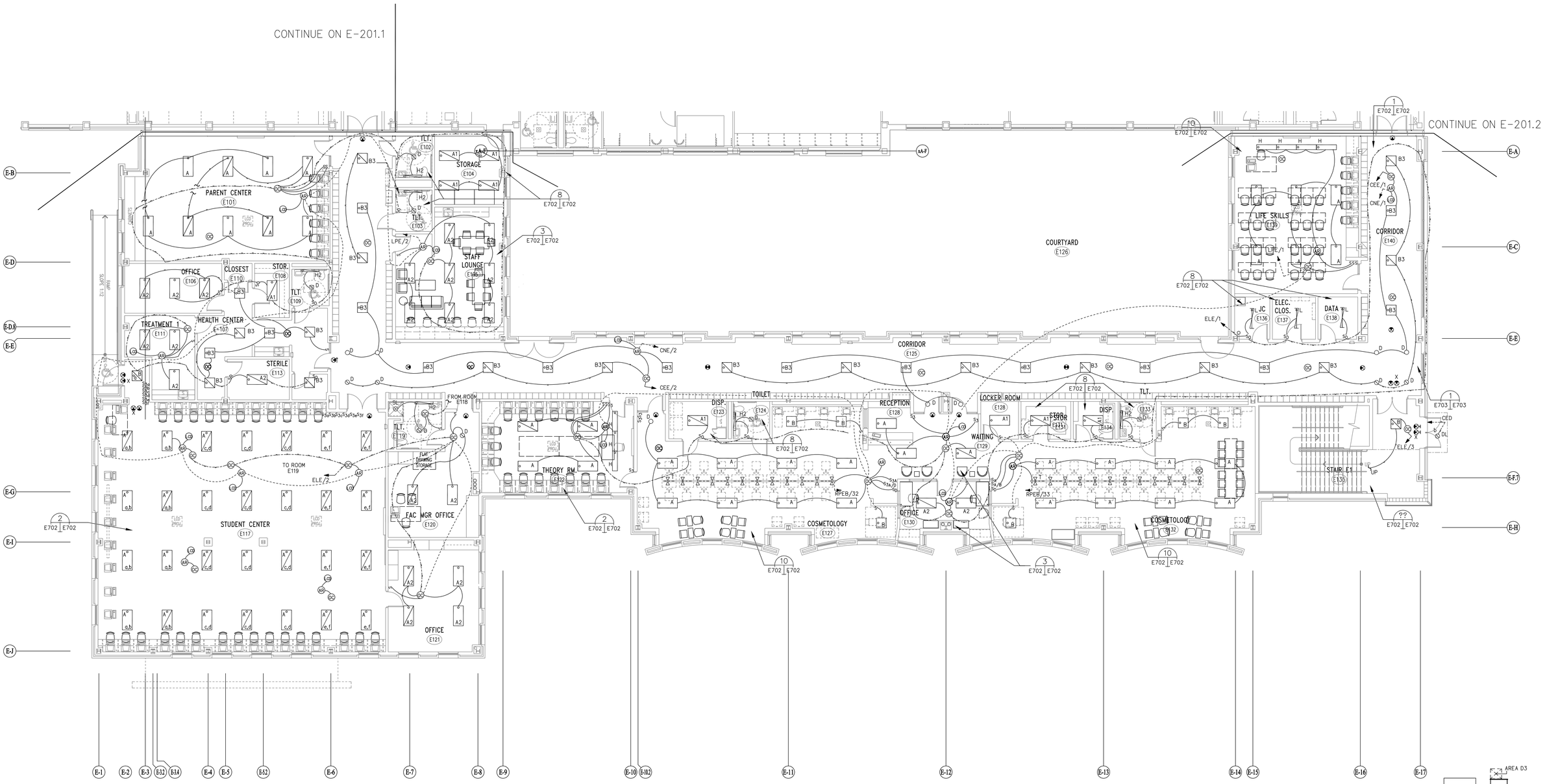

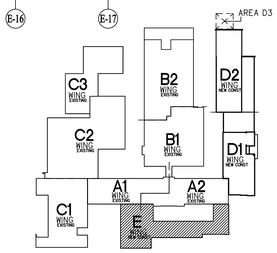

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

NOTES:
1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA E MAIN LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045114L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By XYZ
Approved By XYZ
Drawing No. E-205.1

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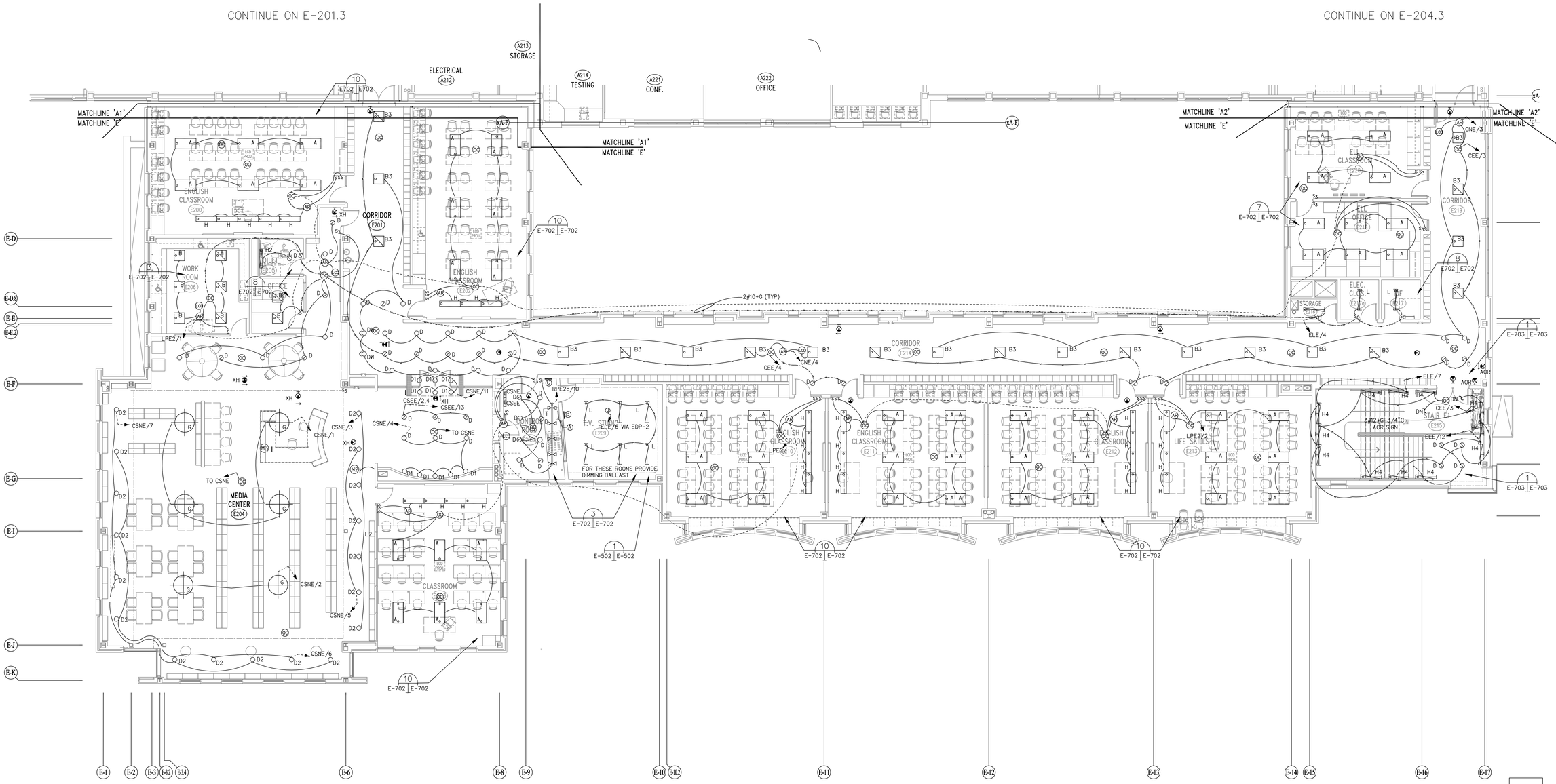
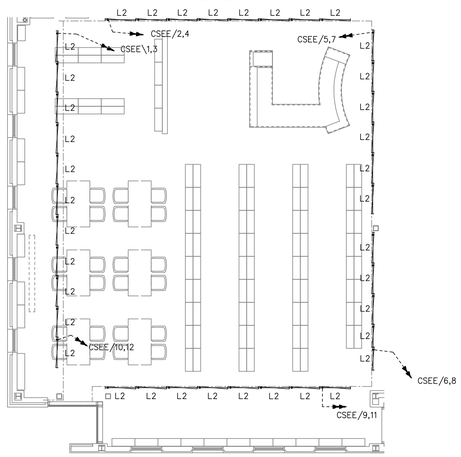
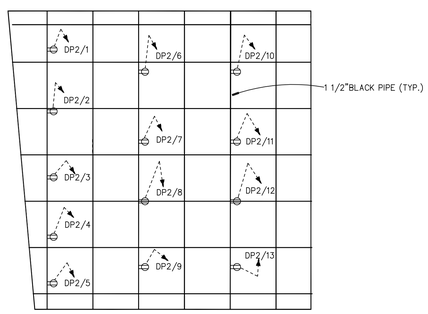
FILE:045114eg REV:04/25/2012 10:28
FILE:045114b

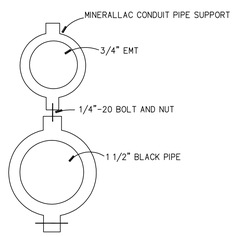


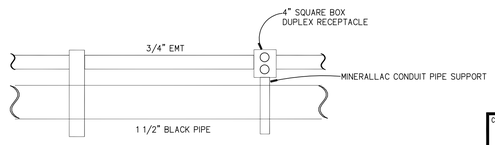


3 UPPER CLEAR STORY

E205.2 | E205.2 SCALE: 1/4" = 1'-0"







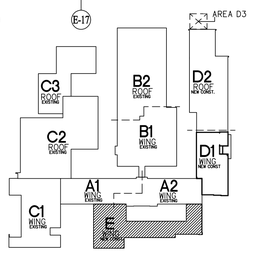
1 PIPE GRID DETAIL

E205.2 | E205.2 SCALE: 1/4" = 1'-0"

NOTE: PIPE GRID TO BE FURNSED AND INSTALLED BY DRAPKA OR PRE-APPROVED EQUAL

NOTES:

1. REFER TO E-001 FOR GENERAL NOTES AND ELECTRICAL SYMBOLS.



UPPER LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

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Drawing Title
AREA E UPPER LEVEL LIGHTING

REVISIONS

Mark	Date	Description

CAD No. 045124L

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By –
Approved By –
Drawing No. E-205.2

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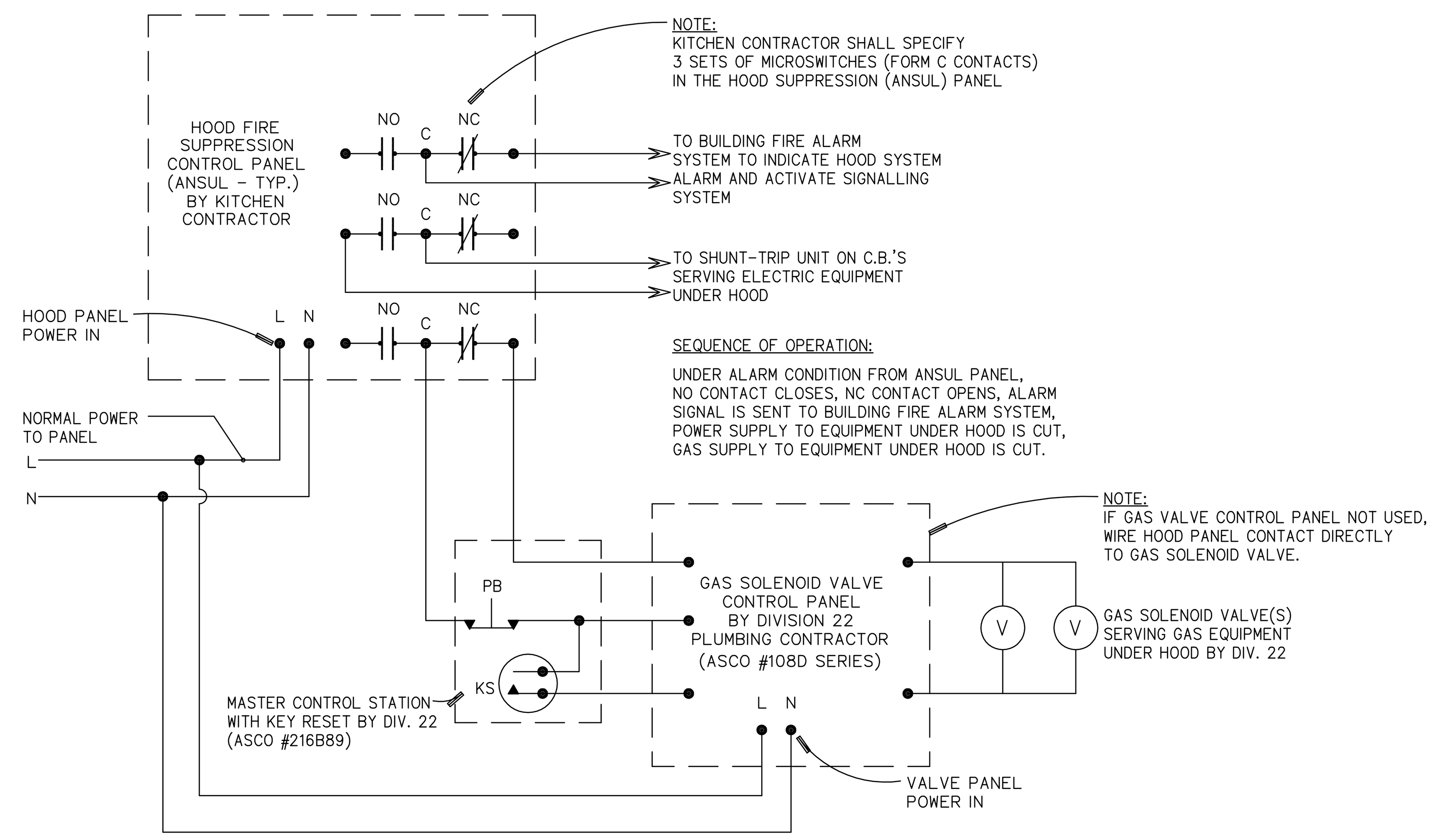


3 KITCHEN HOOD EQUIPMENT INTERFACE DETAIL

E301 | E301 SCALE: NONE

NOTE: FIRE ALARM COONECTION TO HOOD FIRE SUPPRESSION CONTROL PANEL IS INDICATED IN PLAN BY SYMBOL: [FSI]

NOTE: INTERLOCK BOTH HOODS TO COMMON SHUT-DOWN WITH MUA-1.

SEQUENCE OF OPERATION:

A. THE SYSTEM ALARM OPERATION SUBSEQUENT TO THE ALARM ACTIVATION OF ANY MANUAL STATION, AUTOMATIC DETECTION DEVICE, OR SPRINKLER FLOW SWITCH IS TO BE AS FOLLOWS:

1. AUDIBLE ALARM INDICATING APPLIANCES SHALL SOUND A DIGITIZED TONE AND VOICE MESSAGE UNTIL SILENCED BY THE ALARM SILENCE SWITCH AT THE CONTROL PANEL.
2. VISUAL ALARM INDICATING APPLIANCES (XENON STROBES) SHALL DISPLAY A CONTINUOUS PATTERN UNTIL EXTINGUISHED BY THE ALARM SILENCE SWITCH.
3. DOORS NORMALLY HELD OPEN BY DOOR CONTROL DEVICES OR LOCKED THROUGH THE SECURITY SYSTEM SHALL BE AUTOMATICALLY RELEASED.
4. A SUPERVISED SIGNAL TO NOTIFY AN APPROVED CENTRAL STATION SHALL BE ACTIVATED.
5. AIR HANDLING SYSTEM SUPPLY AND RETURN FANS GREATER THAN 2000 CFM SHALL AUTOMATICALLY SHUTDOWN WITH EXCEPTION OF SMOKE EXHAUST FANS AND KITCHEN HOOD EXHAUST FANS.
6. THE COMMAND CENTER SHALL PROVIDE ON/OFF/AUTO SWITCHES. IN THE AUTOMATIC MODE, THE DIVISION 15 MECHANICAL CONTROLS SHALL OPERATE THE AIR HANDLING SYSTEMS AS REQUIRED. THE COMMAND CENTER SHALL INDICATE "ON" OR "OFF" STATUS OF THE AIR HANDLING SYSTEM VIA SEPARATE AND DISTINCT "ON" AND "OFF" LED INDICATORS. MANUAL CONTROL IS TO BE PROVIDED TO OVERRIDE THE AUTOMATIC FUNCTIONS (SEE FIRE ALARM NOTES #22 & #24 ON THIS DRAWING FOR AIR SYSTEMS).
7. ALARMS SHALL BE DISPLAYED ON THE PANEL DISPLAY. THE ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED AT THE CONTROL PANEL. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE AFTER ACKNOWLEDGED SHALL FLASH THE ALARM LED ON THE CONTROL PANEL AND THE PANEL DISPLAY SHALL SHOW THE NEW ALARM INFORMATION. A PULSING ALARM TONE SHALL OCCUR WITHIN THE CONTROL PANEL AND THE REMOTE ANNUNCIATOR UNTIL ACKNOWLEDGED.
8. DRY CONTACT OUTPUTS FROM FACP SHALL DISABLE ALL SOUND, PROJECTION, AND HOUSE DIMMING LIGHTING SYSTEMS UPON ANY FIRE ALARM CONDITION. SOUND AND PROJECTION SYSTEMS SHALL BE SILENCED AND DISABLED TO ALLOW AUDIENCES TO UNDERSTAND THE FIRE ALARM MESSAGE. DIMMABLE LIGHTING LEVELS SHALL RETURN TO FULL EGRESS BRIGHTNESS FOR SAFE EVACUATION.
9. REFER TO THE DOCUMENTS FOR MORE INFORMATION AND LOCATIONS.

B. ALARM AND TROUBLE CONDITIONS SHALL BE IMMEDIATELY DISPLAYED ON THE CONTROL PANEL FRONT ALPHANUMERIC DISPLAY. IF MORE ALARMS OR TROUBLES ARE IN THE SYSTEM THE OPERATOR MAY SCROLL TO DISPLAY NEW ALARMS.

C. THE SYSTEM SHALL HAVE AN ALARM LIST KEY THAT WILL ALLOW THE OPERATOR TO DISPLAY ALL ALARMS, TROUBLES, AND SUPERVISORY SERVICE CONDITIONS WITH THE TIME OF OCCURRENCE.

D. THE ALARM ACTIVATION OF ANY BUILDING SPRINKLER WATER FLOW SWITCH, OR THE ACTIVATION OF ANY ELEVATOR LOBBY, HOISTWAY, OR MACHINE ROOM SMOKE OR HEAT DETECTOR SHALL, IN ADDITION TO THE OPERATIONS LISTED ABOVE, CAUSE THE ELEVATOR CABS TO BE RECALLED ACCORDING TO THE FOLLOWING SEQUENCE:

1. IF THE ALARMED DETECTOR IS ON ANY FLOOR OTHER THAN THE MAIN LEVEL OF EGRESS, THE ELEVATOR CABS SHALL BE RECALLED TO THE MAIN LEVEL OF EGRESS.
2. IF THE ALARMED DETECTOR IS ON THE MAIN EGRESS LEVEL, THE ELEVATOR CABS SHALL BE RECALLED TO THE PRE-DETERMINED ALTERNATE RECALL LEVEL AS DETERMINED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
3. THE ACTIVATION OF ANY HEAT DETECTOR IN AN ELEVATOR HOISTWAY OR MACHINE ROOM SHALL AUTOMATICALLY DISCONNECT POWER TO THE ELEVATOR MOTOR VIA BASE-MOUNTED CONTACTS ACTIVATING THE ELEVATOR FEEDER SHUNT-TRIP CIRCUIT BREAKER OR FUSED SWITCH (REFER TO DRAWINGS). THE SHUNT-TRIP SHALL NOT BE ACTIVATED UNTIL THE ELEVATOR CAR HAS RECALLED TO THE DESIGNATED LEVEL AND ITS DOORS OPENED. COORDINATE PROGRAMMING OT TIME DELAY WITH ELEVATOR CONTRACTOR TO ALLOW ELEVATOR TO RECALL PRIOR TO SHUNT-TRIP.

E. THE CONTROL PANEL SHALL HAVE A DEDICATED SUPERVISORY SERVICE LED AND A DEDICATED SUPERVISORY SERVICE ACKNOWLEDGE SWITCH.

F. THE ACTIVATION OF ANY STANDPIPE OR SPRINKLER VALVE TAMPER SWITCH SHALL ACTIVATE THE SYSTEM SUPERVISORY SERVICE AUDIBLE SIGNAL AND ILLUMINATE THE LED AT THE CONTROL PANEL.

1. ACTIVATING THE SUPERVISORY SERVICE ACKNOWLEDGE SWITCH WILL SILENCE THE SUPERVISORY AUDIBLE SIGNAL WHILE MAINTAINING THE SUPERVISORY SERVICE LED ON INDICATING THE TAMPER CONTACT IS STILL IN THE OFF-NORMAL STATE.
2. RESTORING THE VALVE TO THE NORMAL POSITION SHALL CAUSE THE SUPERVISORY SERVICE LED TO EXTINGUISH THUS INDICATING RESTORATION TO NORMAL POSITION.

G. ROOF TOP UNITS, AIR HANDLERS SHALL BE PROVIDED WITH A RED WEATHERPROOF LIGHT FIXTURE. THE LIGHTFIXTURE SHALL BE ACTIVATED WHEN THE SUPPLY AND/OR RETURN DUCT DETECTORS ARE ACTIVATED. THE LIGHT SHALL BE TURNED WHEN DUCT DETECTORS ARE RESET. THE LIGHT FIXTURE SHALL BE EDWARDS-SIGNAL 109 SERIES LED STARBURST- TYPE 4X. OR PREAPPROVED EQUAL.

STROBE UNIT CANDELA RATINGS

CANDELA	AREA SERVED
15/75	ALL COMBINATION HORN/STROBE AND STROBE-ONLY UNITS U.O.N.

SPEAKER TAP SETTINGS

TAP (W)	AREA SERVED
1/2	ALL SPEAKERS AND SPEAKER/STROBES

VOICE EVACUATION ZONE SCHEDULE

ZONE	AREA SERVED
A	CAFETERIA
B	ENTRY LOBBY
C	LIBRARY MEDIA CENTER
D	GYMNASIUM
E	-
F	-

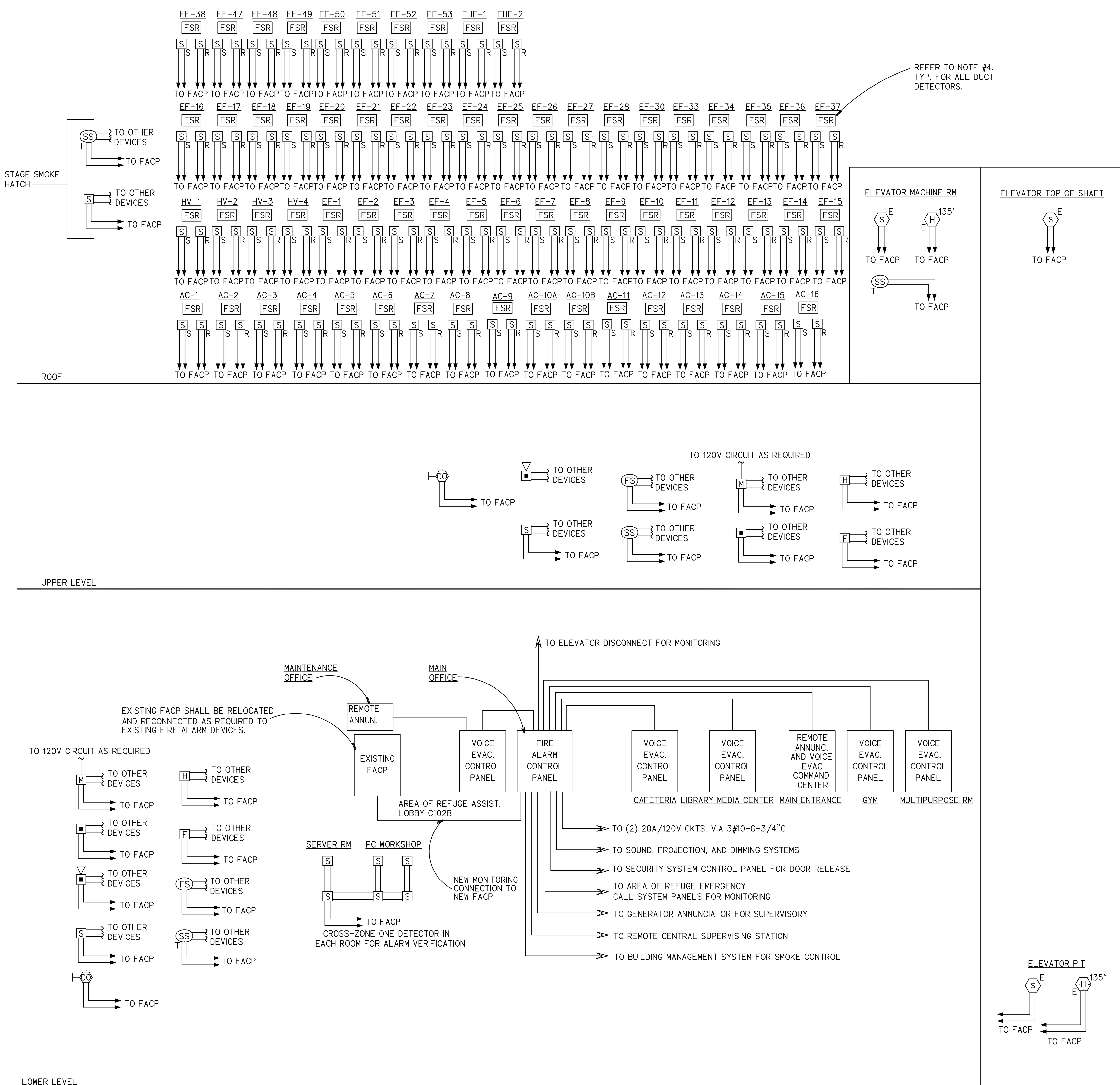
ELEVATOR RECALL SCHEDULE

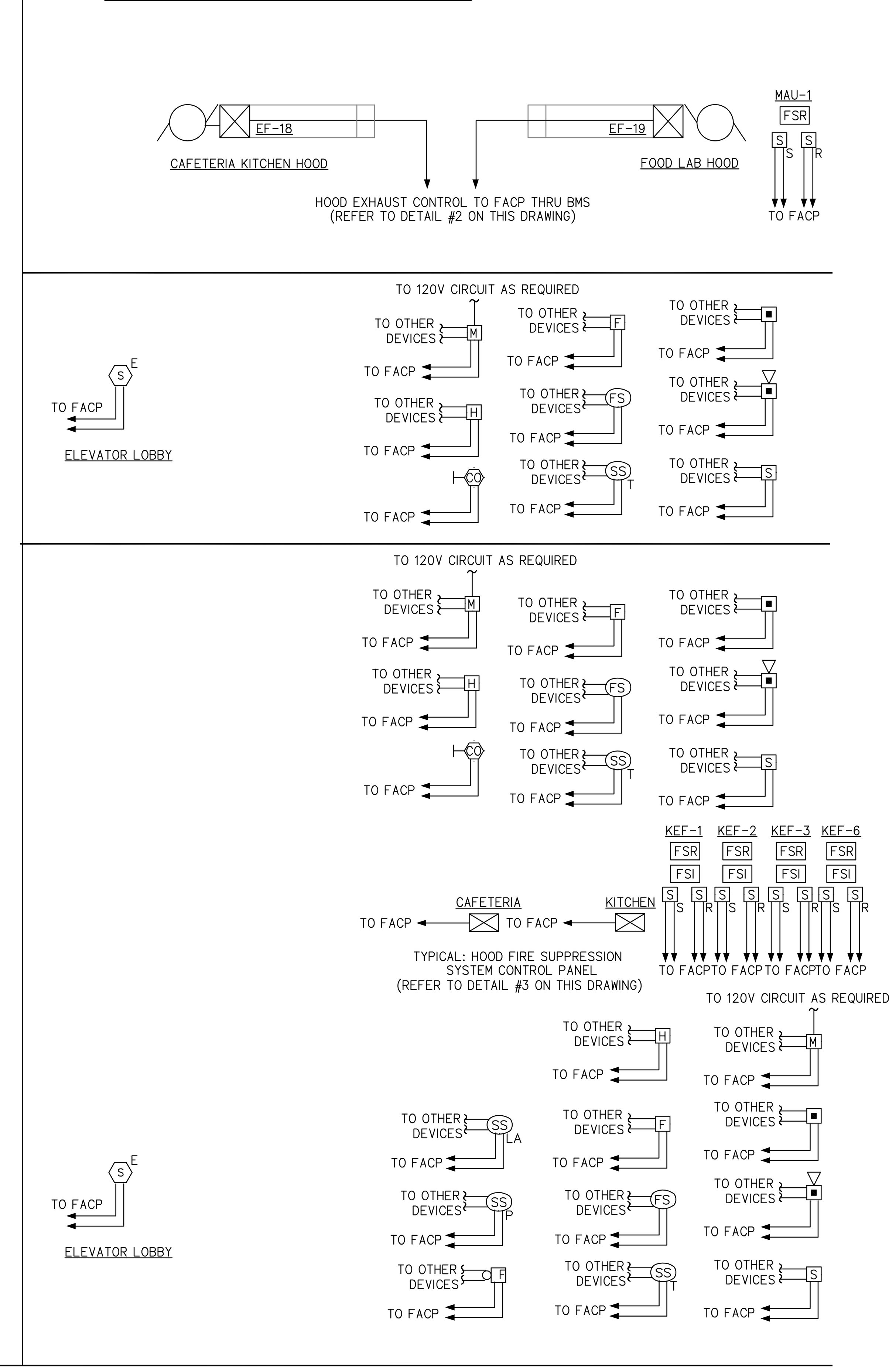
RECALL CIRCUIT	DETECTOR	CAR OPERATION
1	MAIN LOBBY	INITIATES FIRE ALARM SYSTEM CAR RETURNS TO ALTERNATE LEVEL, CAR PANEL LIGHTS
2	HOISTWAY & MACHINES RM.	SAME AS CIRCUIT 1 EXCEPT CAR PANEL LIGHT BLINKS
3	OTHER LOBBIES	SAME AS CIRCUIT 1 EXCEPT CAR RETURNS TO DESIGNATED LEVEL.

FIRE ALARM NOTES:

REFER TO DRAWING E-001 FOR GENERAL NOTES

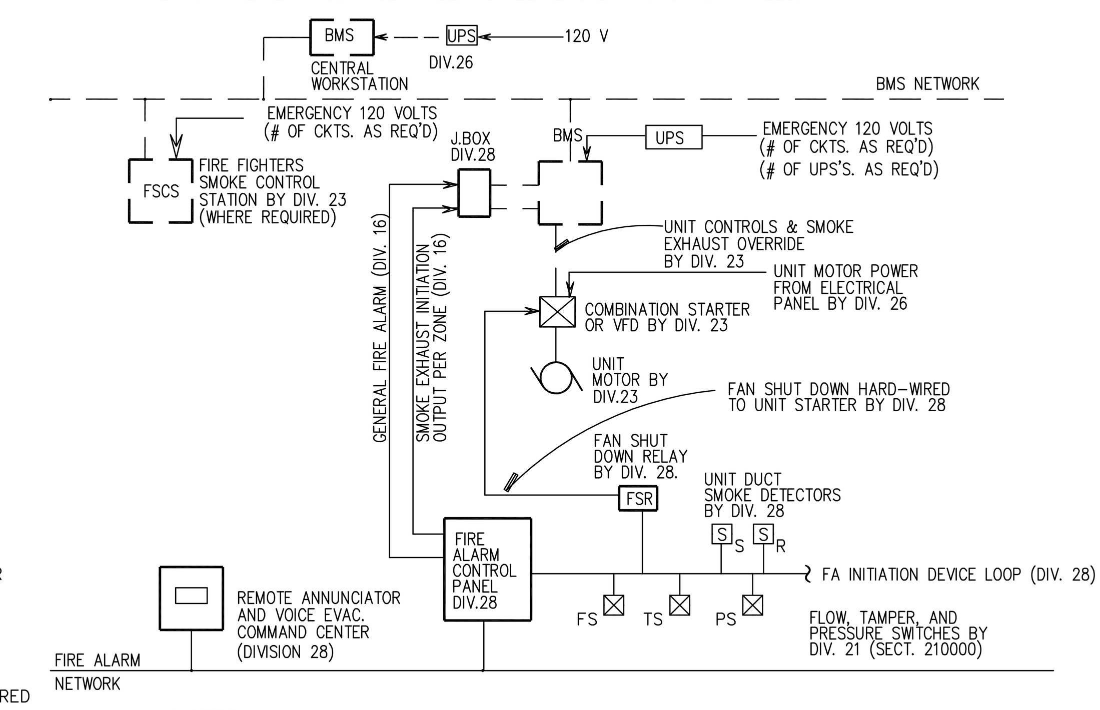
1. FIRE SPEAKERS AND STROBES SHALL BE WIRED VIA VOICE EVACUATION LOOPS AS SCHEDULED ON THIS DRAWING.
2. REFER TO 283100 AND TABLES ON THIS DRAWING FOR SPEAKER TAP SETTINGS AND AMPLIFIER SPARE CAPACITY. ALLOW SUFFICIENT AMPLIFIER WATTAGE SO THAT SEVERAL SPEAKER TAPS CAN BE INCREASED IN THE FIELD IF REQUIRED TO MEET SOUND OUTPUT REQUIREMENTS.
3. VOICE COMMUNICATIONS SPEAKERS SHALL BE WIRED ALTERNATELY, WITH EVERY OTHER SPEAKER ON THE SAME CIRCUIT, SO THAT THE FAILURE OF ONE CIRCUIT WILL NOT LEAVE AN ENTIRE AREA WITHOUT COMMUNICATIONS.
4. REFER TO PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES. IF A DISCREPANCY BETWEEN THE PLANS AND THE RISER IS FOUND, PROVIDE THE GREATER/MORE STRINGENT QUANTITY OF DEVICES.
5. FIRE ALARM DEVICES SHALL BE WIRED VIA ADDRESSABLE LOOPS FROM THE FIRE ALARM CONTROL PANEL PER MANUFACTURER'S RECOMMENDATIONS. LEAVE SPACE FOR THE ADDITION OF 10 FUTURE DEVICES PER LOOP MINIMUM.
6. WIRING FOR FIRE ALARM SYSTEM DEVICES SHALL BE RUN IN EMT CONDUIT THROUGHOUT BUILDING.
7. 135° HEAT DETECTORS IN THE ELEVATOR MACHINE ROOM AND PIT SHALL BE WIRED IN PARALEL TO SHUNT-TRIP UNIT IN THE ELEVATOR FUSED (BUSSMANN) DISCONNECT SWITCH LOCATED IN THE ELEVATOR MACHINE ROOM. DETECTORS SHALL BE MOUNTED WITHIN 2 FEET OF THE ASSOCIATED SPRINKLER HEAD. THE SHUNT TRIP SHALL NOT BE ACTIVATED UNTIL THE ELEVATOR CAR HAS RECALLED TO THE DESIGNATED LEVEL AND ITS DOORS OPENED. COORDINATE PROGRAMMING OF TIME DELAY WITH ELEVATOR CONTRACTOR TO ALLOW ELEVATOR RECALL PRIOR TO SHUNT-TRIP.
8. PROVIDE WIRING AS REQUIRED AND AS COORDINATED BY THE ELEVATOR MANUFACTURER AND FIRE ALARM MANUFACTURER TO ALLOW THE FACP TO SIGNAL THE ELEVATOR CONTROLLER PANEL TO SWITCH INTO "FIRE SERVICE" MODE.
9. DETECTORS LABELED "E" SHALL INITIATE ELEVATOR RECALL SYSTEM. COORDINATE WITH ELEVATOR MANUFACTURER AND REFER TO SEQUENCE OF OPERATIONS.
10. SMOKE DETECTORS NOTED WITH "TOS" = TOP OF SHAFT/STAIR. SUCH DETECTORS SHALL BE WIRED TO DIRECTLY OPEN SHAFT HATCH UPON DETECTION OF SMOKE VIA BASE MOUNTED CONTACTS. DETECTORS SHALL RECEIVE THEIR CONTROL POWER FROM THE FACP AND SHALL REPORT ALL ALARMS TO THE FACP.
11. DOORS ON MAGNETIC HOLD-OPENS OR LOCKED THROUGH THE SECURITY SYSTEM SHALL BE RELEASED AUTOMATICALLY UPON ANY FIRE ALARM CONDITION.
12. AC UNITS, AHU'S, AND RF'S CONTAINING DUCT SMOKE DETECTORS SHALL AUTOMATICALLY SHUTDOWN UPON ANY FIRE ALARM CONDITION.
13. EF'S WITH FAN SHUTDOWN RELAYS ([FSR]) SHALL BE AUTOMATICALLY SHUTDOWN UPON ANY FIRE ALARM CONDITIONS.
14. GENERATOR COMMON ALARM AND TROUBLE SIGNALS SHALL REPORT AS SUPERVISORIES TO FACP FROM GENERATOR REMOTE ANNUNCIATOR PANEL.
15. MAINTAIN THE EXISTING STRUCTURE FIRE ALARM AND SIGNALLING SYSTEM INTACT THROUGHOUT CONSTRUCTION PHASE OF THE NEW BUILDING DUE TO CONSTANT OCCUPANCY. REMOVE UPON SUCCESSFUL TESTING OF NEW SYSTEM AND/OR REMOVAL OF EXISTING STRUCTURE.
16. EQUIPMENT UNDER KITCHEN HOODS SHALL AUTOMATICALLY SHUT DOWN BY AN ALARM FROM THE HOOD FIRE SUPPRESSION SYSTEM.SHUTDOWNS SHALL BE ACCOMPLISHED VIA THE HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL TRIPPING EQUIPMENT SHUNT-TRIP CIRCUIT BREAKERS AND CLOSING GAS-FIRED EQUIPMENT SOLENOID VALVES. COORDINATE WITH THE KITCHEN EQUIPMENT AND HOOD SUPPRESSION SYSTEM MANUFACTURERS (REFER TO DETAIL #3 ON THIS DRAWING).
17. THE FIRE ALARM PANEL SHALL SEND TWO SIGNALS TO THE BMS SYSTEM INDICATING THAT A FIRE ALARM CONDITION HAS OCCURRED (REFER TO DETAIL #2 ON THIS DRAWING).
18. ALL FIRE ALARM SYSTEM POWER SUPPLIES SHALL BE POWERED VIA CIRCUIT BREAKERS IN LOCAL PANELS. PROVIDE ALL SUCH CIRCUIT BREAKERS WITH HANDLE LOCKING DEVICES.
19. SMOKE DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR FLOW NOR CLOSER THAN THREE (3) FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. INCREASE SEPARATION AS REQUIRED BY NFPA 72. COORDINATE ALL LOCATIONS WITH ARCHITECT AND MECHANICAL CONTRACTOR.
20. COORDINATE ALL LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL DUCT MOUNTED SMOKE DETECTORS AS REQUIRED DUE TO ACTUAL DUCTWORK LAYOUTS AND IN COMPLIANCE WITH THE MANUFACTURERS REQUIREMENTS FOR LOCATING DUCT MOUNTED SMOKE DETECTORS. PROVIDE A REMOTE INDICATOR/TEST STATION FOR EACH DETECTOR IN APPROVED READILY VISIBLE LOCATIONS.
21. PROVIDE STROBE UNIT CANDELA RATINGS AS INDICATED IN THE SCHEDULE AND WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
22. SMOKE DETECTORS SHALL BE WITHIN 5' OF DOORS HAVING MAGNETIC HOLD OPENS.
23. PROVIDE ILLUMINATED SIGN FOR AREA OF REFUGE STATIONS
24. KITCHEN HOOD EXHAUST FANS SHALL CONTINUE TO OPERATE (NOT SHUTDOWN) UPON AN ALARM CONDITION. PROVIDE KEY SWITCH MANUAL OVERIDE CONTROLS FOR FANS AT THE FIRE COMMAND STATION.
25. MAIN BUILDING WATER FLOW SWITCH SHALL HAVE A SECOND SET OF AUXILIARY CONTACTS FOR ACTUATION OF THE SPRINKLER WATER FLOW BELLS WHERE INDICATED. BELLS SHALL BE FURNISHED AND INSTALLED BY DIVISION 210000, WIRED BY THIS CONTRACTOR. BELLS SHALL BE POWERED BY THE LOW VOLTAGE POWER SUPPLY IN THE FIRE ALARM PANEL. COORDINATE BELL VOLTAGE AND CURRENT REQUIREMENTS WITH DIVISION 210000.
26. FURNISH AND INSTALL 120 VOLT ELECTRICAL POWER TO MAGNETIC HOLD OPENS AS REQUIRED PER MANUFACTURERS REQUIRMENTS.
27. FURNISH AND INSTALL CONNECTION TO EXISTING FACP TO NEW FACP FOR MONITORING AND SIGNAL. THE CONTRACTOR SHALL REFER TO THE PHASING DOCUMENTS FOR CROSS OVERS AND TIMING.
28. USE EXISTING FIRE ALARM DEVICES WITH EXISTING FACP ONLY. AREAS BEING RENOVATED SHALL BE PROVIDED WITH NEW DEVICES AND NEW WIRING TO NEW FACP. EXISTING DEVICES AND WIRING SHALL BE REMOVED IN TOTAL. RECONNECTION SHALL BE PROVIDED AS REQUIRED FOR EXISTING FACP TO REMAIN ACTIVE.
29. ACTIVATION OF ANY CARBON MONOXIDE DETECTOR SHALL ACTIVATE A SUPERVISORY ONLY TROUBLE INDICATION AT THE MAIN FIRE ALARM CONTROL PANEL AND ALL REMOTE ANNUNCIATOR PANELS.





1 FIRE ALARM SYSTEM SCHEMATIC RISER DIAGRAM

E301 | E301 SCALE: = NONE



NOTES:

1. ALL ITEMS SHOWN AS "DASHED" ARE WORK OF DIVISION 23.
2. ALL 120 VOLT CIRCUITS SHALL BE WORK OF DIVISION 26.
3. EMERGENCY CIRCUITS SHALL BE FROM LOCAL (EMERGENCY STAND-BY) PANELS.
4. DUCT DETECTOR REMOTE TEST SWITCH SHALL BE LOCATED IN ELECTRICAL ROOM OF EACH WING.

2 MECH. EQUIP. / FIRE ALARM INTERFACE

E301 | E301 SCALE: = NONE

CMR BID DOCUMENTS

Consultant	Drawing Title	
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Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
	CAD No. 0451ERF1	Project No. BI-RT-837

Date	Scale	Drawn By	Approved By	Drawing No.
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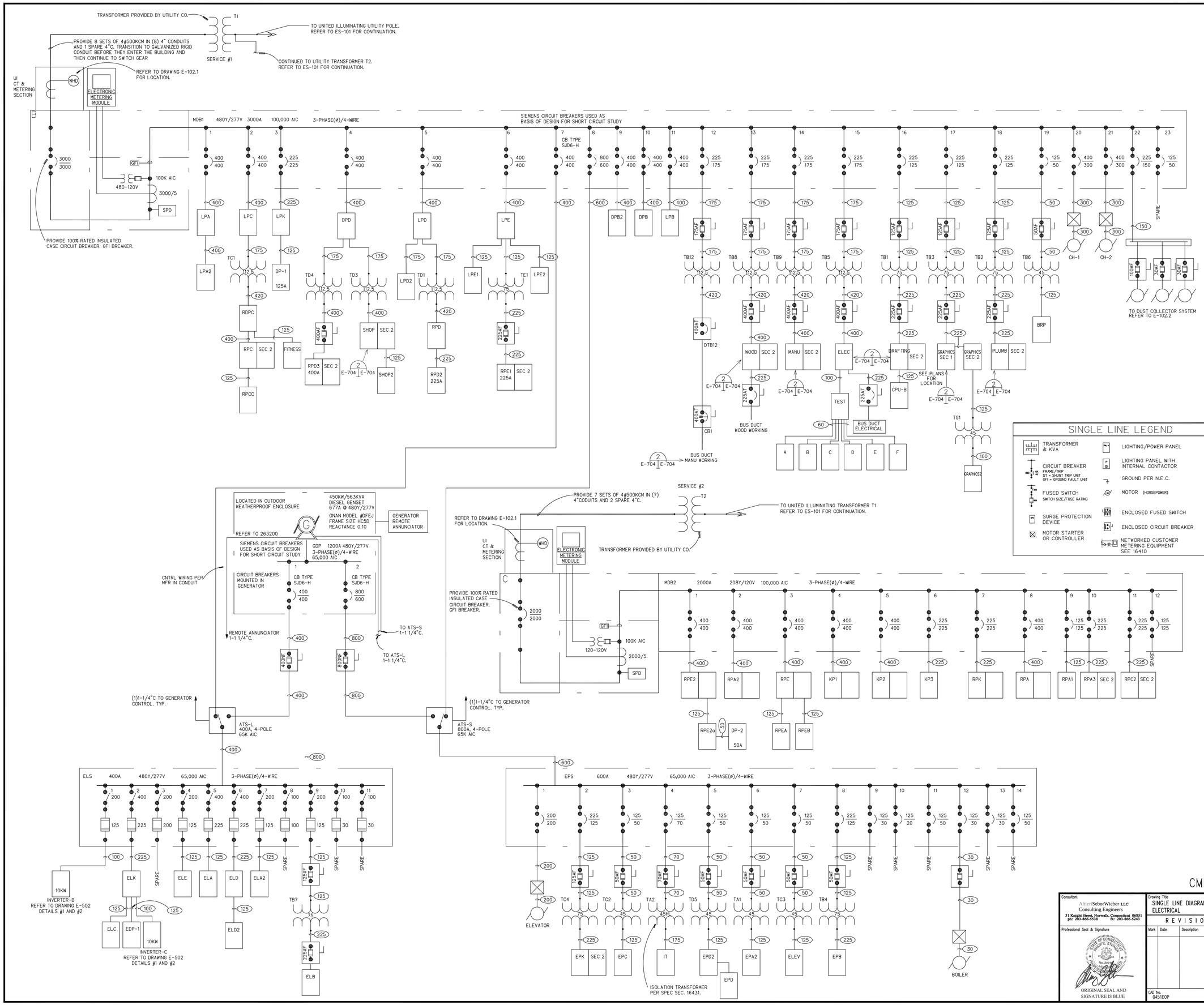

GENERAL NOTES:

1. PROVIDE A PERMANENT PLAQUE ON EACH MAIN DISTRIBUTION BOARDS STATING THAT THERE ARE TWO SERVICES IN THIS BUILDING AND THE ROOM LOCATION FOR THE OTHER SERVICE. ALSO STATE THAT THERE IS AN EMERGENCY GENERATOR INSTALLED FOR THIS BUILDING LOCATED ON THE OUTSIDE.
2. EPO - PROVIDE SHUNT TRIP FOR EMERGENCY POWER OFF IN THESE PARTICULAR PANEL BOARDS.
3. CONDUIT RUNS INDOOR SHALL BE THROUGH THE TUNNELS.
4. CONDUIT RUNS FROM B WING (MDB, EPS, ELS) TO A, C, D, E(via A) WING SHALL BE GALVANIZED RIGID CONDUIT (GRC) WHEN LEAVING THE BUILDING UNTIL RE-ENTERING INTO BUILDING.
5. REFER TO PHASING DOCUMENTS FOR COORDINATION, TIMING, AND ADDITIONAL INFORMATION.

SINGLE LINE LEGEND

- TRANSFORMER & KVA
- CIRCUIT BREAKER — FRAME/TRIP; ST = SHUNT TRIP UNIT; GFI = GROUND FAULT UNIT
- FUSED SWITCH — SWITCH SIZE/FUSE RATING
- SURGE PROTECTION DEVICE
- MOTOR STARTER OR CONTROLLER
- LIGHTING/POWER PANEL
- LIGHTING PANEL WITH INTERNAL CONTACTOR
- GROUND PER N.E.C.
- MOTOR (HORSEPOWER)
- ENCLOSED FUSED SWITCH
- ENCLOSED CIRCUIT BREAKER
- NETWORKED CUSTOMER METERING EQUIPMENT SEE 16410

CONDUCTOR & CONDUIT SCHEDULE

FEEDER SYMBOL	CONDUCTORS (3PH,4W) WITH GROUND	CONDUIT SIZE
20	4#12 + 1#12 G	(1) 3/4"
30	4#10 + 1#10 G	(1) 3/4"
40	4#8 + 1#10 G	(1) 3/4"
50	4#6 + 1#10 G	(1) 1"
60	4#6 + 1#10 G	(1) 1"
70	4#4 + 1#8 G	(1) 1 1/4"
80	4#4 + 1#8 G	(1) 1 1/4"
100	4#2 + 1#8 G	(1) 2"
125	4#1 + 1#6 G	(1) 2"
150	4#1/0 + 1#6 G	(1) 2"
175	4#2/0 + 1#6 G	(1) 2"
200	4#3/0 + 1#6 G	(1) 2 1/2"
225	4#4/0 + 1#4 G	(1) 2 1/2"
250	4#250KCM + 1#4 G	(1) 3"
300	4#350KCM + 1#4 G	(1) 4"
350	4#500KCM + 1#2 G	(1) 4"
400	4#500KCM + 1#2 G	(1) 4"
420	4#600KCM + 1#2 G	(1) 4"
450	8#4/0 + 2#2 G	(2) 3"
500	8#250KCM + 2#2 G	(2) 3"
600	8#350KCM + 2#1 G	(2) 3"
700	8#500KCM + 2#1/0 G	(2) 4"
800	8#500KCM + 2#1/0 G	(2) 4"
840	8#600KCM + 2#2/0 G	(2) 4"
900	12#350KCM + 3#2/0 G	(3) 3"
1000	12#500KCM + 3#2/0 G	(3) 4"
1200	12#600KCM + 3#3/0 G	(3) 4"
1600	16#600KCM + 4#4/0 G	(4) 4"
2000	20#600KCM + 5#250KCM G	(5) 4"
3000	32#600KCM + 8#400KCM G	(8) 4"

NOTES:

1. PROVIDE 4-WIRE CIRCUIT, UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
2. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS, WITH 90 DEGREE INSULATION RATING.
3. FOR AN OVERCURRENT PROTECTION DEVICE OF INTERMEDIATE RATING OF THOSE LISTED, PROVIDE WIRING INDICATED FOR THE NEXT HIGHER RATED DEVICE.
4. VD=FEEDER UPSIZED DUE TO VOLTAGE DROP 3W=3WIRE FEEDER (NO NEUTRAL) REQUIRED 5W=5WIRE FEEDER (2X NEUTRAL) REQUIRED
5. FEEDERS ON TRANSFORMER SECONDARY SIDE SHALL CONTAIN SYSTEM BONDING JUMPER SIZED PER NEC 250-30(A)(1), & NEC TABLE 250-66.
6. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN CONDUIT AND CONDUCTOR SCHEDULE ON THIS DRAWING.

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Drawing Title
SINGLE LINE DIAGRAM
ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451EOP

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale NOT TO SCALE
Drawn By RML
Approved By XYZ
Drawing No. E-401

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ADDITIONAL LIGHTING CONTROL SYSTEM NOTES:

1. LIGHTING CONTROL SYSTEM SHALL BE DIGITAL (COMMUNICATIONS BASED) AND CONSIST OF A MASTER LCP WITH UP TO 48 INDIVIDUAL RELAYS, SLAVE LCPs WITH UP TO 48 INDIVIDUAL RELAYS IN EACH PANEL, A MICRO LCP WITH UP TO 4 INDIVIDUAL RELAYS AND DIMMED OUTPUTS (0-10V), DIGITAL SWITCHES (RS-485) AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT AND BE CONTROLLED VIA A SINGLE CATEGORY 6, 4 TWISTED PAIR STRANDED CABLE PROVIDING REAL-TIME TWO-WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS (CONTACT CLOSURE BASED) SHALL NOT BE ACCEPTABLE.
2. RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PRE-PROGRAMMED AND ETL LISTED TO UL 916 (OR ETL LISTED TO UL 924 WHEN PART OF AN EMERGENCY SYSTEM). PANELS SHALL BE PROVIDED WITH A SWITCH SELECTABLE POWER SUPPLY (277/120/OFF) AND 16 GAGE BARRIERS TO SEPARATE 120V, 277V AND LOW VOLTAGE. NORMAL AND EMERGENCY POWER SHALL BE IN SEPARATE ENCLOSURES.
3. RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN, BALLAST, OR HID. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE. OPTIONAL 600V, 2-POLE RELAYS SHALL BE AVAILABLE.
4. ALL INCANDESCENT LIGHTING CIRCUITS SHALL BE CONTROLLED BY SOFTSTART NC RELAYS. NO EXCEPTIONS.
5. RELAY PANEL ELECTRONICS SHALL PROVIDE VISUAL STATUS AND MANUAL CONTROL OF EACH RELAY. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN NON-VOLATILE MEMORY WITH 200 YEAR MEMORY RETENTION (AND A 10 YEAR 'TIME OF DAY' MEMORY).
6. LIGHTING CONTROL SYSTEM SHALL CONSIST OF MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT INTERFACE INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21 CHARACTER DISPLAY, OR FROM A COMPUTER OR MODEM VIA AN ON-BOARD RS-232 PORT. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.
7. ALL SWITCHES SHALL COMMUNICATE VIA RS-485. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A SERIALLY CONNECTED PC) OR REMOTELY, VIA DIAL-UP MODEM, ETHERNET, OR INTERNET. REFER TO SINGLE LINE DIAGRAM FOR WIRING DETAILS.
8. PHOTOCELL, EXTERIOR (PCO) OR INTERIOR (PCI), SHALL PROVIDE READ-OUT ON THE DTC SCREEN IN NUMERIC VALUES ANALOGOUS TO FOOT-CANDLES. EACH PHOTOCELL CARD SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER MAY BE PROGRAMMED LOCALLY OR REMOTELY TO CONTROL ANY RELAY(S) OR ZONE(S) IN ANY PANEL(S). PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL OR CONTROL CARD SHALL NOT BE ACCEPTABLE.
9. LIGHTING CONTROL SYSTEM INTERFACES TO INCLUDE A DRY-CONTACT INPUT INTERFACE, BAS INTERFACE (RS 232 OR RS 485), DIMMING SYSTEM INTERFACE (RS 232), ETHERNET, AND FIBER OPTIC MODEM. VERIFY AND INSTALL ONLY THOSE INTERFACES INDICATED ON THE PLANS.
10. STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD INTERACTIVE GRAPHICAL PAGES. SOFTWARE SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.
11. START UP: EC SHALL CONTACT LIGHTING CONTROL MANUFACTURER AT LEAST 7 DAYS BEFORE TURNOVER OF PROJECT. LIGHTING CONTROL MANUFACTURER WILL REMOTELY DIAL INTO THE LIGHTING CONTROL SYSTEM, RUN DIAGNOSTICS AND CONFIRM SYSTEM PROGRAMMING. EC SHALL BE AVAILABLE AT THE TIME OF DIAL IN TO PERFORM ANY CORRECTIONS REQUIRED BY MANUFACTURER. EC IS RESPONSIBLE FOR COORDINATING WITH GC AND THE OWNER THE INSTALLATION OF A DEDICATED TELEPHONE LINE OR A SHARED PHONE LINE WITH AN A/B SWITCH. PHONE JACK TO BE MOUNTED WITHIN 12" OF MASTER LCP. LABEL JACK WITH PHONE NUMBER. EC TO CONNECT PHONE LINE FROM JACK TO MASTER LCP. NO EXCEPTIONS.
12. TELEPHONE FACTORY SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE WARRANTY PERIOD. FACTORY TO PRE-PROGRAM THE LIGHTING CONTROL SYSTEM PER APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM OR INTERNET AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THAT BOTH THE SYSTEM FIRMWARE AND SOFTWARE CAN BE UPGRADED AND MONITORED REMOTELY. UPON REQUEST MANUFACTURER TO PROVIDE REMOTE DIAL UP SOFTWARE AND ALL FUTURE FIRMWARE UPDATES TO SYSTEM OWNER. NO EXCEPTIONS.
13. SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR FROM THE MANUFACTURER SHALL BE JOB SPECIFIC, INCLUDING PANEL, SWITCH AND TIME CLOCK SCHEDULES, SINGLE LINE DRAWINGS, AND SHALL BE AVAILABLE IN BOTH ELECTRONIC AND HARD COPY FORMAT. SUBMITTALS WHICH CONSIST OF TYPICAL SINGLE LINE DRAWINGS OR GENERAL PROGRAMMING INFORMATION SHALL NOT BE ACCEPTABLE.
14. LIGHTING CONTROL SYSTEM TO BE MANUFACTURED BY LIGHTING CONTROL & DESIGN, GREENGATE, OR LUTRON.

14.- FURNISH AND INSTALL "UNITY LIGHTING CONTROL SOFTWARE" OR GREENGATE GRAPHICAL TOUCH SOFTWARE (KEEPER ENTERPISE WITH VISION TOUCH) WITH (3) 8 HOUR DAYS OF TRAINING TO THE OWNER.
15.- FURNISH AND INSTALL UNITY GRAPHICAL MANAGEMENT SOFTWARE AND INTERFACE.
16.- FURNISH AND INSTALL LEVITON OR GREENGATE OCCUPANCY SENSOR CONTROLS FOR HALLWAYS. PROVIDE REQUIRED LCD RELAYS FOR OVERRIDE OF OCCUPANCY CONTROLS.
17.- FURNISH AND INSTALL PHOTOCELL CARDS,OUTDOOR PHOTOCELLS,DIGITAL LINK INTERFACE CARD, LAN LINK INTERFACE CARD, TELE LINK, NETWORK EXPANDERS AS REQUIRED, AND FIBERLINK.
18.- FURNISH AND INSTALL REQUIRED COMPONENTS FOR A COMPLETE AND FUNCTIONING SYSTEM.
19.- PROVIDE SURGE AND LIGHTNING PROTECTION FOR GR2400 SERIES PANEL.
20.- THE CONTRACTOR SHALL FURNISH AND INSTALL CAT 6 CABLE TO THE TELEPHONE DEMARC AND PROVIDE TERMINATIONS TO AN ACTIVE PHONE LINE.
21.- PROVIDE (2) SPARE LC&D GR-2416-SLAVE OR (2) GREENGATE CK-T-16 CONTROL PANELS
22.- PROVIDE (4) SPARE LC&D GR-24R04-SLAVE OR (4) GREENGATE CK-T-4- 120 AND (4) CK-T-4-277 CONTROL PANELS

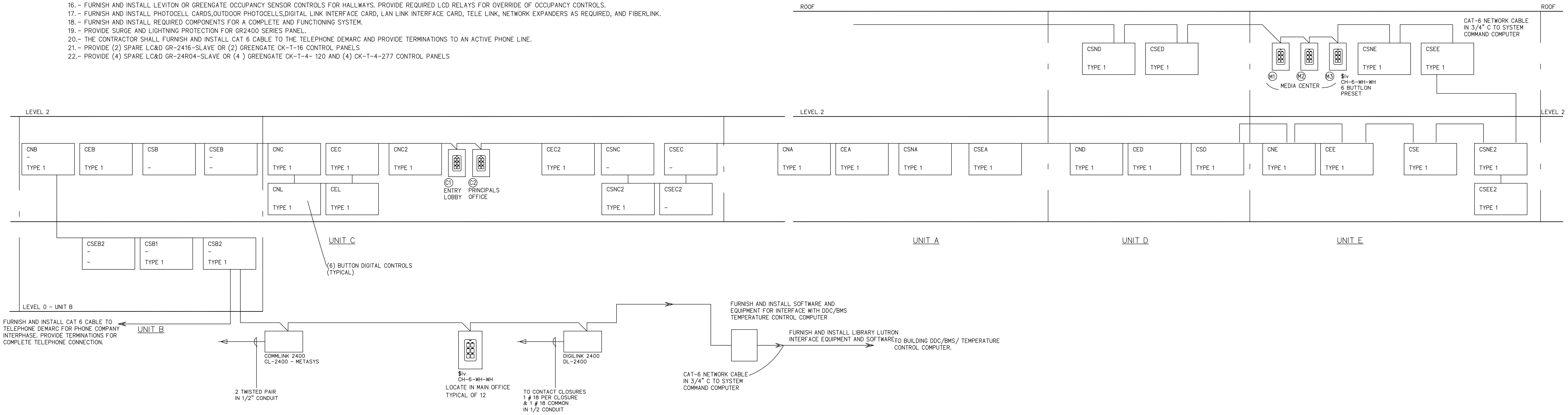
LIGHTING RELAY SCHEDULE

NAME	PANEL		ITEM(S) CONTROLED		RELAY DESCRIPTION				MAKE AND LC&D MODEL #	REMARKS SEE NOTES	MAKE AND GREENGATE MODEL #	REMARKS SEE NOTES	NAME
	LOCATION	VOLTS	CIRCUITS	DESCRIPTION	TOTAL	CONTROL	AMP.	NO/NC					
CSEB	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	42	DIGITAL	20	NC	GR2400SBP-42-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-16	POWER FROM - INV B	CSEB
CNB	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	42	DIGITAL	20	NC	GR2400SBP-42-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-4		CNB
CEB	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-4		CEB
CSEC2	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	16	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-8	POWER FROM - INV C	CSEC2
-	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SPARE PANEL	CK-T-16	SPARE PANEL	-
-	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SPARE PANEL	CK-T-16	SPARE PANEL	-
-	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SPARE PANEL	CK-T-16	SPARE PANEL	-
-	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SPARE PANEL	CK-T-16	SPARE PANEL	-
CSB	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-16		CSB
-	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL - INV B	CK-T-16	SPARE PANEL	-
CSNC	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-8		CSNC
CSEC	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL - INV C	CK-T-4	POWER FROM - INV C	CSEC
CSNE	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-16		CSNE
CSEE	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-16		CSEE
SITE	SEE DWGS.	480Y/277	SEE DRAWINGS	LIGHTING	24	DIGITAL	20	NC	GR2400SBP-24-100-MLO-277/480-FM-DTCMOD	SMART BREAKER PANEL	CK-T-16		SITE
TYPE 1	SEE DWGS.	277	SEE DRAWINGS	LIGHTING	4	DIGITAL	20	NC	GR2404-iDH-277-idigi4	STAIR - PROVIDE CONSTANTLY TO BATTERY BALLAST	CK-T-16	STAIR - PROVIDE CONSTANTLY TO BATTERY BALLAST	TYPE 1
-	SEE DWGS.	120	SEE DRAWINGS	LIGHTING	4	DIGITAL	20	NC	GR2404-iDH-120-idigi4	STAIR - PROVIDE CONSTANTLY TO BATTERY BALLAST	CK-T-16	STAIR - PROVIDE CONSTANTLY TO BATTERY BALLAST	-

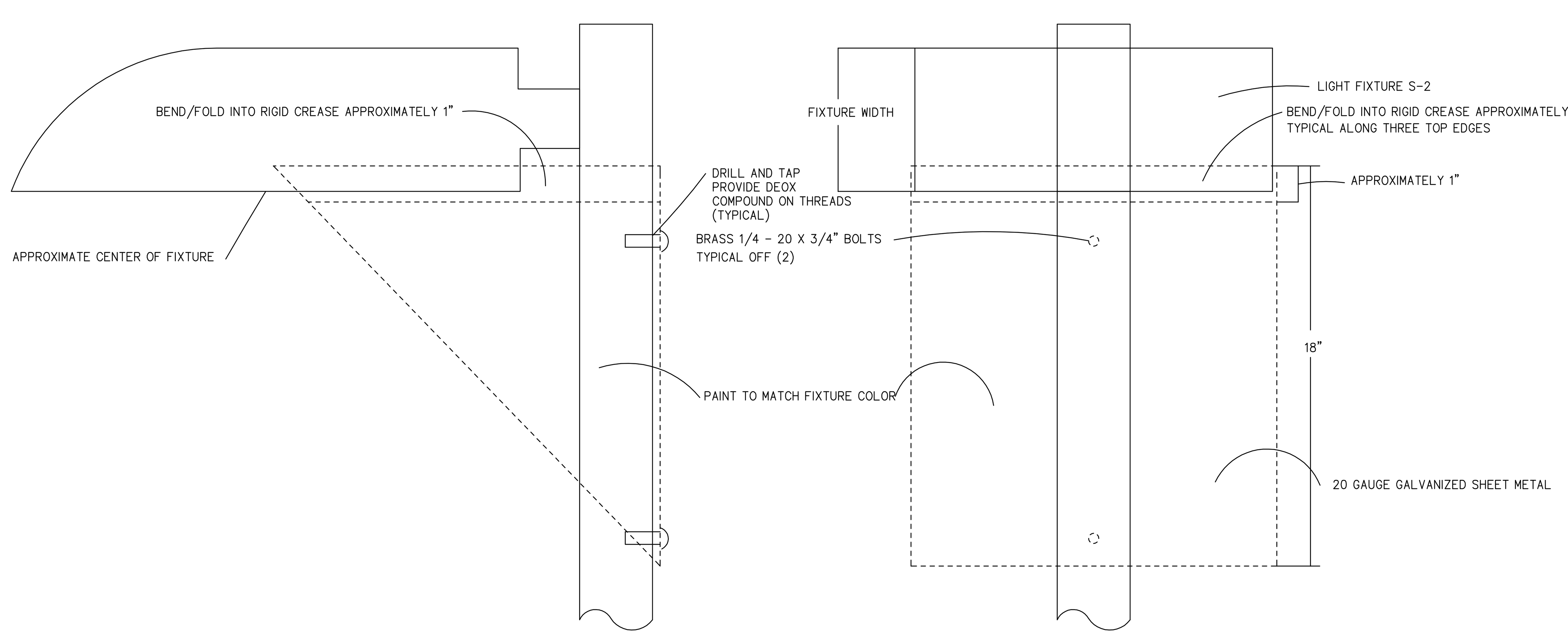
POWER EMERGENCY LCD PANELS VIA CONSTANTLY HOT SIDE OF EMERGENCY LIGHTING CIRCUITS.
POWER LCD PANELS FROM CONSTANTLY HOT SIDE OF LIGHTING CIRCUITS
PROVIDE PANEL VOLTAGE AS REQUIRED.

PANEL NOMENCLATURE EXAMPLE: C S E A 2 — CONTROL, SITE, POWER, BUILDING, FLOOR

POWER: EMERGENCY OR NORMAL
BUILDING: A, B, C, D, E
FLOOR BLANK OR 2



1 LIGHTING CONTROL RISER DIAGRAM
E-501 | E-501



3 TYPICAL HOUSE SIDE SHIELDS
E-501 | E-501

REFER TO DRAWING E-001 FOR SYMBOLS, NOTES AND ABBREVIATIONS.

CMR BID DOCUMENTS

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Drawing Title
LIGHTING CONTROL DETAILS ELECTRICAL

REVISIONS

Mark	Date	Description

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Professional Seal & Signature
STATE OF CONNECTICUT PHILIP C. STEINER No. 22271 LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Date 06-18-2012
Scale 1"=1'-0"
Drawn By -
Approved By -
Drawing No. E-501

CAD No. 0451Eol1
Project No. BI-RT-837

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480Y/277 VOLT.
65,000 A.I.C.
3 PHASE - 4 WIRE

DIMMER PANEL DP-1

125 AMP BUS
125 AMP MCB

ROOM/AREA	CONTROLS	CIRCUIT # NORM.	CIRCUIT # EMERG.	ZONE	DESCRIPTION	# OF LAMPS	TOTAL WATTS	I	LV	ND	F	WIRE & CONDUIT	REMARKS
RESTAURANT	GRAFIX EYE	1	-	-	G4	2	1000				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	2	-	-	G4	2	600				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	3	-	-	G3	2	600				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	4	-	-	G3	2	600				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	5	-	-	G3	2	1400				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	6	-	-	G2	2	1200				X	2#12+G-3/4"C.	-
-	-	7	-	-	-	-	-		X			-	-
-	-	8	-	-	-	-	-		X			-	-
-	-	9	-	-	-	-	-		X			-	-
-	-	10	-	-	-	-	-		X			-	-
-	-	11	-	-	-	-	-		X			-	-
-	-	12	-	-	-	-	-		X			-	-
-	-	13	-	-	-	-	-		X			-	-
-	-	14	-	-	-	-	-		X			-	-
-	-	15	-	-	-	-	-		X			-	-
-	-	16	-	-	-	-	-		X			-	-
-	-	17	-	-	-	-	-		X			-	-
-	-	18	-	-	-	-	-		X			-	-
-	-	19	-	-	-	-	-		X			-	-
-	-	20	-	-	-	-	-		X			-	-

___ AMP, __ POLE - __ WIRE NORMAL INPUT FROM _____ TOTAL LOAD = 5,400 VA - 6.5 AMPS

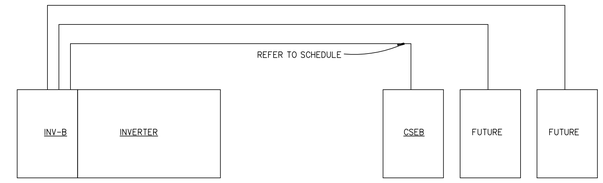
208Y/120 VOLT.
65,000 A.I.C.
3 PHASE - 4 WIRE

DIMMER PANEL DP-2

50 AMP BUS
50 AMP MCB

ROOM/AREA	CONTROLS	CIRCUIT # NORM.	CIRCUIT # EMERG.	ZONE	DESCRIPTION	# OF LAMPS	TOTAL WATTS	I	LV	ND	F	WIRE & CONDUIT	REMARKS
TV STUDIO	-	1	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	2	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	3	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	4	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	5	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	6	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	7	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	8	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	9	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	10	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	11	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
TV STUDIO	-	12	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
-	-	13	-	-	PIPE GRID RECEP	-	500	X				2#12+G-3/4"C.	-
-	-	14	-	-	-	-	-		X			-	-
-	-	15	-	-	-	-	-		X			-	-
-	-	16	-	-	-	-	-		X			-	-

___ AMP, __ POLE - __ WIRE NORMAL INPUT FROM _____ TOTAL LOAD = 6,000 VA - 16.7 AMPS



MYERS INVERTER ILLUMINATOR SERIES "C III" - 2-D-4-S-A2010

2 INVERTER ONE-LINE

E-502 | E-502 SCALE: NONE

480Y/277 VOLT.
65,000 A.I.C.
3 PHASE - 4 WIRE

DIMMER PANEL EDP-1

125 AMP BUS
125 AMP MCB

ROOM/AREA	CONTROLS	CIRCUIT # NORM.	CIRCUIT # EMERG.	ZONE	DESCRIPTION	# OF LAMPS	TOTAL WATTS	I	LV	ND	F	WIRE & CONDUIT	REMARKS
RESTAURANT	GRAFIX EYE	-	1	-	D	2	700				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	-	2	-	D	2	1000				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	-	3	-	D	2	700				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	-	4	-	D	2	200				X	2#12+G-3/4"C.	-
RESTAURANT	GRAFIX EYE	-	5	-	D	2	900				X	2#12+G-3/4"C.	-
-	-	-	6	-	-	-	-				X	-	-
-	-	-	7	-	-	-	-		X			-	-
-	-	-	8	-	-	-	-		X			-	-
-	-	-	9	-	-	-	-		X			-	-
-	-	-	10	-	-	-	-		X			-	-
-	-	-	11	-	-	-	-		X			-	-
-	-	-	12	-	-	-	-		X			-	-
-	-	-	13	-	-	-	-		X			-	-
-	-	-	14	-	-	-	-		X			-	-
-	-	-	15	-	-	-	-		X			-	-
-	-	-	16	-	-	-	-		X			-	-
-	-	-	17	-	-	-	-		X			-	-
-	-	-	18	-	-	-	-		X			-	-
-	-	-	19	-	-	-	-		X			-	-
-	-	-	20	-	-	-	-		X			-	-

___ AMP, __ POLE - __ WIRE EMERGENCY INPUT FROM _____ TOTAL LOAD = 3,500 VA - 4.2 AMPS

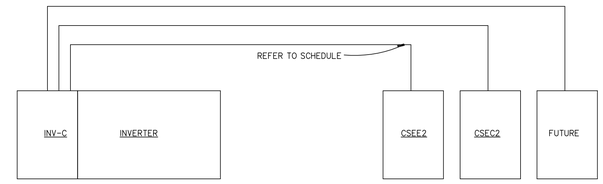
480Y/277 VOLT.
65,000 A.I.C.
3 PHASE - 4 WIRE

DIMMER PANEL EDP-2

FEED THRU

ROOM/AREA	CONTROLS	CIRCUIT # NORM.	CIRCUIT # EMERG.	ZONE	DESCRIPTION	# OF LAMPS	TOTAL WATTS	I	LV	ND	F	WIRE & CONDUIT	REMARKS
TV STUDIO	-	-	1	-	L	12	768				X	2#12+G-3/4"C.	FEED FROM ELE/6
-	-	-	2	-	-	-	-				-	-	-

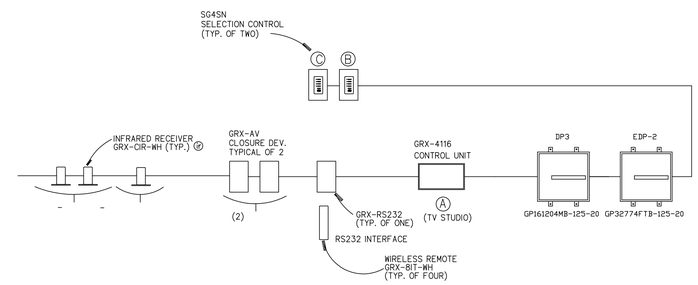
___ AMP, __ POLE - __ WIRE EMERGENCY INPUT FROM ELE_____ TOTAL LOAD = 768 VA - 2.8 AMPS



MYERS INVERTER ILLUMINATOR SERIES "C III" - 2-D-4-S-A2010

3 INVERTER ONE-LINE

E-502 | E-502 SCALE: NONE

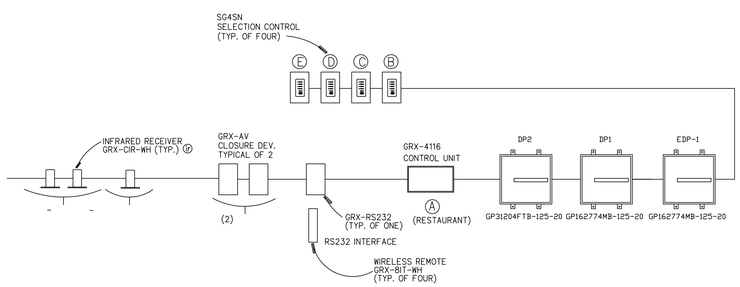


NOTES:

1. WALL STATION & USER INTERFACE LINKS REQUIRE 2 #12 AWG PLUS 1 BELDON #9461 OR ALPHA #2211 CABLE.
2. GP SERIES DIMMER PANEL LINK REQUIRES 3 #18 PLUS 1 BELDON #9461 OR ALPHA #2211 CABLE.
3. PROVIDE STANDARD ANALOG DEDICATED PHONE LINE WITH OUTSIDE PHONE NUMBER FOR MODEM CAPABILITY.
4. REFER TO SECTION 260943, ARCHITECTURAL DIMMING.

1 LIGHTING CONTROL SYSTEM - TV STUDIO

E-502 | E-502 SCALE: NONE



NOTES:

1. WALL STATION & USER INTERFACE LINKS REQUIRE 2 #12 AWG PLUS 1 BELDON #9461 OR ALPHA #2211 CABLE.
2. GP SERIES DIMMER PANEL LINK REQUIRES 3 #18 PLUS 1 BELDON #9461 OR ALPHA #2211 CABLE.
3. PROVIDE STANDARD ANALOG DEDICATED PHONE LINE WITH OUTSIDE PHONE NUMBER FOR MODEM CAPABILITY.
4. REFER TO SECTION 260943, ARCHITECTURAL DIMMING.

1 LIGHTING CONTROL SYSTEM - RESTAURANT

E-502 | E-502 SCALE: NONE

CMR BID DOCUMENTS

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Drawing Title
LIGHTING CONTROL DETAILS ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451Col2

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1"=1'-0"
Drawn By -
Approved By -
Drawing No. E-502

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FILE:0451E001REV: MM/DD/YY HH:MM
PLOTTED:
SCALE: AN/AN/AN:AN:AN

CNA
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. A1- MAIN	2#12+12G-3/4"C.	20	1	LPA/5	LPA/6	1	20	2#12+12G-3/4"C.	LGHT. CORR. A2- MAIN	2
3	LGHT. CORR. A1- UPPER	2#12+12G-3/4"C.	20	1	LPA/7	LPA/8	1	20	2#12+12G-3/4"C.	LGHT. CORR. A2- UPPER	4
–	–	–	20	1	–	–	1	20	–	–	–

– – – –
– –

CNB
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. B1- MAIN	2#12+12G-3/4"C.	20	1	LPB/25	LPB/26	1	20	2#12+12G-3/4"C.	LGHT. CORR. B2- MAIN	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

– – – –
– –

CNC
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. C1- MAIN	2#12+12G-3/4"C.	20	1	LPC/16	LPC/17	1	20	2#12+12G-3/4"C.	LGHT. CORR. C2- MAIN	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
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CNC2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. C4- MAIN	2#12+12G-3/4"C.	20	1	LPC/18	LPC/19	1	20	2#12+12G-3/4"C.	LGHT. CORR. C4- MAIN	2
3	LGHT. CORR. C4- MAIN	2#12+12G-3/4"C.	20	1	LPC/21	LPC/23	1	20	2#12+12G-3/4"C.	LGHT. CORR. C2+C3-MAIN	4
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CEA
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. A1-MAIN	2#12+12G-3/4"C.	20	1	ELA/6	ELA/7	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. A2-MAIN	2
3	EM. LGHT. CORR. A1-UPPER	2#12+12G-3/4"C.	20	1	ELA/8	ELA/9	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. A2-UPPER	4
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CEB
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. B1-MAIN	2#12+12G-3/4"C.	20	1	EPB/10	EPB/11	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. B2-MAIN	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
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CEC
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. C1-MAIN	2#12+12G-3/4"C.	20	1	ELC/17	ELC/18	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. C2-MAIN	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
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CEC2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. C4-MAIN	2#12+12G-3/4"C.	20	1	ELC/19	ELC/20	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. C4-MAIN	2
3	EM. LGHT. CORR. C4-MAIN	2#12+12G-3/4"C.	20	1	ELC/21	ELC/22	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. C2+C3-MAIN	4
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CND
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. D1- MAIN	2#12+12G-3/4"C.	20	1	LPD/4	LPD/5	1	20	2#12+12G-3/4"C.	LGHT. CORR. D1- UPPER	2
3	S-3	2#10+10G-3/4"C.	20	1	LPD/7	LPD/8	1	20	2#10+10G-3/4"C.	S-3	4
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CNE
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. E1- MAIN	2#12+12G-3/4"C.	20	1	LPE1/3	LPE1/4	1	20	2#12+12G-3/4"C.	LGHT. CORR. E1- MAIN	2
3	LGHT. CORR. E1- UPPER	2#12+12G-3/4"C.	20	1	LPE1/5	LPE1/6	1	20	2#12+12G-3/4"C.	LGHT. CORR. E1- UPPER	4
–	–	–	20	1	–	–	1	20	–	–	–

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CSB
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-8	2#10+#10G-3/4"C.	20	1	LPB/26	LPB/26	1	20	–	SPARE	2
3	SPARE	–	20	1	LPB/26	LPB/26	1	20	–	SPARE	4
5	SPARE	–	20	1	LPB/26	LPB/26	1	20	2#10+#10G-3/4"C.	S-2	6
7	S-2	2#10+#10G-3/4"C.	20	1	LPB/41	LPB/41	1	20	2#10+#10G-3/4"C.	S-2	8
9	S-2	2#10+#10G-3/4"C.	20	1	LPB/41	LPB/41	1	20	2#10+#10G-3/4"C.	S-3	10
11	S-3	2#10+#10G-3/4"C.	20	1	LPB/41	LPB/41	1	20	2#10+#10G-3/4"C.	S-3	12
13	S-3	2#10+#10G-3/4"C.	20	1	LPB/41	–	1	20	–	SPARE	14
15	S-3a	2#10+#10G-3/4"C.	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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CSEE
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
125 AMP MCB

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/13	ELE/13	1	20	2#10+#10G-3/4"C.	EM. MEDIA CENTER L2	2
3	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/13	ELE/13	1	20	2#10+#10G-3/4"C.	EM. MEDIA CENTER L2	4
5	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/15	ELE/15	1	20	2#10+#10G-3/4"C.	EM. MEDIA CENTER L2	6
7	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/15	ELE/15	1	20	2#10+#10G-3/4"C.	EM. MEDIA CENTER L2	8
9	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/17	ELE/17	1	20	2#10+#10G-3/4"C.	EM. MEDIA CENTER L2	10
11	EM. MEDIA CENTER L2	2#10+#10G-3/4"C.	20	1	ELE/17	–	1	20	–	SPARE	12
13	EM. MEDIA CENTER D	2#10+#10G-3/4"C.	20	1	ELE/17	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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CED
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. D1-MAIN	2#12+12G-3/4"C.	20	1	ELD/4	ELD/5	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. D1-UPPER	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

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CEE
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. E1-MAIN	2#12+12G-3/4"C.	20	1	ELE/8	ELE/9	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. E1-MAIN	2
3	EM. LGHT. CORR. E1-UPPER	2#12+12G-3/4"C.	20	1	ELE/10	ELE/11	1	20	2#12+12G-3/4"C.	EM. LGHT. CORR. E1-UPPER	4
–	–	–	20	1	–	–	1	20	–	–	–

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CSEB
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	SPARE	–	20	1	INV-B/1	INV-B/2	1	20	2#10+#10G-3/4"C.	BOLLARS	2
3	POST	2#10+#10G-3/4"C.	20	1	INV-B/1	INV-B/2	1	20	2#10+#10G-3/4"C.	POST	4
5	EXT. WALL MOUNTED	2#10+#10G-3/4"C.	20	1	INV-B/3	INV-B/4	1	20	2#10+#10G-3/4"C.	S-4 POST	6
7	SPARE	–	20	1	–	INV-B/4	1	20	2#10+#10G-3/4"C.	S-4 POST	8
9	SPARE	–	20	1	–	–	1	20	–	SPARE	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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CSNE
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
125 AMP MCB

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	MEDIA CENTER G	2#10+10G-3/4"C.	20	1	LPE1/7	LPE1/7	1	20	2#10+10G-3/4"C.	MEDIA CENTER G	2
3	MEDIA CENTER D2	2#10+10G-3/4"C.	20	1	LPE1/7	LPE1/7	1	20	2#10+10G-3/4"C.	MEDIA CENTER D	4
5	MEDIA CENTER D2	2#10+10G-3/4"C.	20	1	LPE1/9	LPE1/9	1	20	2#10+10G-3/4"C.	MEDIA CENTER D2	6
7	MEDIA CENTER D2	2#10+10G-3/4"C.	20	1	LPE1/9	LPE1/9	1	20	2#10+10G-3/4"C.	MEDIA CENTER EXT.	8
9	MEDIA CENTER EXT.	2#10+10G-3/4"C.	20	1	LPE1/11	LPE1/11	1	20	2#10+10G-3/4"C.	MEDIA CENTER EXT.	10
11	CORRIDOR	2#10+10G-3/4"C.	20	1	LPE1/10	LPE1/11	1	20	2#10+10G-3/4"C.	MEDIA CENTER EXT.	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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CEL
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. LOBBY. C4- MAIN	2#12+12G-3/4"C.	20	1	ELC/1	ELC/2	1	20	2#12+12G-3/4"C.	EM. LGHT. LOBBY. C4- MAIN	2
3	EM. LGHT. LOBBY. C4-MAIN	2#12+12G-3/4"C.	20	1	ELC/3	ELC/26	1	20	2#12+G-3/4"C.	LGHT. LOBBY. C4- MAIN	4
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CSD
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-5 - C1	2#10+#10G-3/4"C.	20	1	LPD/6	–	1	20	–	SPARE	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

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CNL
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
125 AMP MCB

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. LOBBY. C4- MAIN	2#12+G-3/4"C.	20	1	LPC/43	LPC/44	1	20	2#12+G-3/4"C.	LGHT. LOBBY. C4- MAIN	2
3	LGHT. LOBBY. C4- MAIN	2#12+G-3/4"C.	20	1	LPC/45	LPC/46	1	20	2#12+G-3/4"C.	LGHT. LOBBY. C4- MAIN	4
5	LGHT. LOBBY. C4- MAIN	2#12+G-3/4"C.	20	1	LPC/47	LPC/48	1	20	2#12+G-3/4"C.	LGHT. LOBBY. C4- MAIN	6
7	LGHT. LOBBY. C4- MAIN	2#12+G-3/4"C.	20	1	LPC/49	–	1	20			8
9	SPARE	–	20	1	–	–	1	20	–	SPARE	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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CSNC
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	POST LIGHTS	2#10+#10G-3/4"C.	20	1	LPC/50	LPC/52	1	20	2#10+#10G-3/4"C.	POST LIGHTS	2
3	POST LIGHTS	2#10+#10G-3/4"C.	20	1	LPC/50	LPC/52	1	20	2#10+#10G-3/4"C.	POST LIGHTS	4
5	POST LIGHTS	2#10+#10G-3/4"C.	20	1	LPC/50	LPC/52	1	20	2#10+#10G-3/4"C.	POST LIGHTS	6
7	S-3A	2#10+#10G-3/4"C.	20	1	LPC/58	LPC/58	1	20	2#10+#10G-3/4"C.	S-3A	8
9	S-3	2#10+#10G-3/4"C.	20	1	LPC/60	LPC/60	1	20	2#10+#10G-3/4"C.	S-3	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16
17	SPARE	–	20	1	–	–	1	20	–	SPARE	18
19	SPARE	–	20	1	–	–	1	20	–	SPARE	20
21	SPARE	–	20	1	–	–	1	20	–	SPARE	22
23	SPACE	–	–	1	–	–	1	20	–	SPACE	24

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SITE
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
125 AMP MCB

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	SPARE	–	20	1	–	–	1	20	–	SPARE	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
5	SPARE	–	20	1	–	–	1	20	–	SPARE	6
7	SPARE	–	20	1	–	–	1	20	–	SPARE	8
9	SPARE	–	20	1	–	–	1	20	–	SPARE	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16

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CSEC
480/277 V. 3 PHASE - 4 WIRE
100,000 A.I.C.
125 AMP BUS
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-5	2#10+#10G-3/4"C.	20	1	INV-C/3	–	1	20	–	SPARE	2
3	S-5	2#10+#10G-3/4"C.	20	1	INV-C/3	–	1	20	–	SPARE	4
5	S-5	2#10+#10G-3/4"C.	20	1	INV-C/3	–	1	20	–	SPARE	6
7	SPARE	–	20	1	–	–	1	20	–	SPARE	8
9	SPARE	–	20	1	–	–	1	20	–	SPARE	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16

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CSNC2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-6	2#10+#10G-3/4"C.	20	1	LPC/54	–	1	20	–	SPARE	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

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CSNE2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-6	2#10+#10G-3/4"C.	20	1	LPE1/8	LPE1/8	1	20	–	SPARE	2
3	–	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

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CSEC2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
125 AMP BUS
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-2	2#10+#10G-3/4"C.	20	1	INV-C/1	INV-C/2	1	20	2#10+#10G-3/4"C.	S-1	2
3	S-2	2#10+#10G-3/4"C.	20	1	INV-C/1	INV-C/2	1	20	2#10+#10G-3/4"C.	S-4	4
5	S-1	2#10+#10G-3/4"C.	20	1	INV-C/3	INV-C/4	1	20	2#10+#10G-3/4"C.	S-1	6
7	SPARE	–	20	1	–	–	1	20	–	SPARE	8
9	SPARE	–	20	1	–	–	1	20	–	SPARE	10
11	SPARE	–	20	1	–	–	1	20	–	SPARE	12
13	SPARE	–	20	1	–	–	1	20	–	SPARE	14
15	SPARE	–	20	1	–	–	1	20	–	SPARE	16

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CSEE2
480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL
- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED	PANEL FEED	POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	S-1	2#10+#10G-3/4"C.	20	1	ELE/19	ELE/19	1	20	2#10+#10G-3/4"C.	S-4	2
3	SPARE	–	20	1	–	–	1	20	–	SPARE	4
–	–	–	–	–	–	–	–	–	–	–	–

– – – –
– –

INV-B
EMERGENCY LTG. INVERTER
480 V. 3 PHASE - 4 WIRE INPUT
480 V. 3 PHASE - 4 WIRE OUTPUT

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	LOAD	NORMALLY ON	NORMALLY OFF
	CSEB/3	2#10+#10G-3/4"C.	20	1	400W	X	
2	CSEB/2 & 4	2#10+#10G-3/4"C.	20	1	2800W	X	
3	CSEB/5	2#10+#10G-3/4"C.	20	1	2000W	X	
4	CSEB/6 & 8	2#10+#10G-3/4"C.	20	1	3500W	X	
5	–	–	20	1	–	X	
6	–	–	20	1	–	X	
7	–	–	20	1	–	X	
8	–	–	20	1	–	X	
9	–	–	20	1	–	X	
10	–	–	20	1	–	X	
	LOAD				8700W		

TOTAL = 8700W - 10.5A

INV-C
EMERGENCY LTG. INVERTER
480 V. 3 PHASE - 4 WIRE INPUT
480 V. 3 PHASE - 4 WIRE OUTPUT

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	LOAD ØA	NORMALLY ON	NORMALLY OFF
1	CSEC2/1,3	2#10+#10G-3/4"C.	20	1	800W	X	
2	CSEC2/2,4	2#10+#10G-3/4"C.	20	1	2400W	X	
3	CSEC2/5	2#10+#10G-3/4"C.	20	1	2400W	X	
4	CSEC2/6	2#10+#10G-3/4"C.	20	1	2800W	X	
5	–	–	20	1	–	X	
6	–	–	20	1	–	X	
7	–	–	20	1	–	X	
8	–	–	20	1	–	X	
9	–	–	20	1	–	X	
10	–	–	20	1	–	X	
	LOAD PER PHASE				8400W		

TOTAL = 8400W - 10.1A

PANEL SCHEDULE DIRECTORY

CNA	CNB	CNC	CNC2
CEA	CEB	CEC	CEC2
CND	CNE	CSB	CSEE
CED	CEE	CSEB	CSNE
CEL	CSD	SITE	CSEC
CNL	CSNC		
CSNC2	CSNE2		
CSEC2	CSEE2		

CMR BID DOCUMENTS

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Professional Seal & Signature
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ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
LIGHTING CONTROL
DETAILS ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451EOL3

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1"=1'-0"
Drawn By –
Approved By –
Drawing No. E-503

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FILE:0451ED01REV: MM/DD/YY HH:MM
FILE0451EOL3 REV: 06/20/12 15:40

MDB1

VOLTAGE: 480 Y/277V — AIC RATING: 100K — PHASE/WIRE: 3Ø-4W — BUS: 3000 AMP — MAINS: 3000 AMP CB

	LOAD SERVED	FRAME	BREAKER	POLE	AMPS	KVA	CIRCUIT NOTES
1	PANEL LPA	400	400	3	259.82	215.75	
2	PANEL LPC	400	400	3	225.28	187.07	
3	PANEL LPK	225	125	3	66.26	55.02	
4	PANEL DPD	400	400	3	220.63	183.21	
5	PANEL LPD	400	400	3	139.19	115.59	
6	PANEL LPE	400	400	3	92.41	76.73	
7	PANEL ELS VIA ATS-L	400	400	3	165.82	137.70	
8	PANEL EPS VIA ATS-S	800	600	3	311.09	258.33	
9	PANEL DPB2	400	400	3	245.02	203.47	
10	PANEL DPB	400	400	3	199.93	166.02	
11	PANEL LPB	400	400	3	158.46	131.59	
12	MANU BUS DUCT	225	175	3	48.17	40.00	
13	PANEL WOOD	225	175	3	78.86	65.48	
14	PANEL MANU	225	175	3	59.24	49.19	
15	PANEL ELEC	225	175	3	10.71	8.89	
16	PANEL DRAFTING	225	125	3	46.93	38.97	
17	PANEL GRAPHICS	225	125	3	41.55	34.50	
18	PANEL PLUMB	225	125	3	63.25	52.52	
19	PANEL BRP	125	50	3	13.55	11.26	
20	CHILLER CH-1	400	300	3	156.37	130.00	
21	CHILLER CH-2	400	300	3	156.37	130.00	
22	DUST COLLECTOR	225	150	3	81.79	68.00	
23	SPARE	125	50	3	0.00	0.00	
	SPACE			3	0.00	0.00	
	DIVERSIFIED LOAD		TOTALS:		2841	2359	
	NOTES:		TOTAL W/ DEMAND:		0		

1. SEE RISER FOR WIRE SIZES AND QUANTITIES.
2.
3.

MDB2

VOLTAGE: 208 Y/120V — AIC RATING: 100K — PHASE/WIRE: 3Ø-4W — BUS: 2000 AMP — MAINS: 2000 AMP CB

	LOAD SERVED	FRAME	BREAKER	POLE	AMPS	KVA	CIRCUIT NOTES
1	PANEL RPE2	400	400	3	156.69	56.38	
2	PANEL RPA2	400	400	3	112.70	40.55	
3	PANEL RPE	400	400	3	156.50	56.32	
4	PANEL KP1	400	400	3	276.77	99.59	
5	PANEL KP2	400	400	3	399.37	143.71	
6	PANEL KP3	225	225	3	110.17	39.64	
7	PANEL RPK	225	225	3	162.15	58.35	
8	PANEL RPA	400	400	3	138.76	49.93	
9	PANEL RPA1	125	125	3	34.52	12.42	
10	PANEL RPA3	225	225	3	153.10	55.09	
11	PANEL RPC2	225	225	3	134.39	48.36	
12	SPARE	225	100	3		0.00	
			TOTALS:		1835	660	
	NOTES:		TOTAL W/ DEMAND:		1285		DEMAND 70%

1. SEE RISER FOR WIRE SIZES AND QUANTITIES.
2.
3.

LPE2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING E1- UPPER	2#12+#12G	20	1	4.00	3.10					1	20	2#12+#12G	LIGHTING E1- UPPER	2
3	SPARE		20	1			0.00	0.00			1	20		SPARE	4
5	SPARE		20	1					0.00	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	3	0.00	0.00					3	50		SPARE	32
33							0.00	0.00							34
35									0.00	0.00					36
37	AC-4	3#4 + #8G	70	3	12.00	0.42					3	20	3#10 + #10G	EF-17	38
39							12.00	0.42							40
41									12.00	0.42					42
	LOAD PER PHASE				19.52		12.42		12.42						

TOTAL = 44.37 kVA — 53 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

LPA2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHITNG A2 - MAIN	2#12 + #12G	20	1	3.00	2.80					1	20	2#12 + #12G	LIGHTING A2 - MAIN	2
3	LIGHTING A2 - UPPER	2#12 + #12G	20	1			3.80	2.80			1	20	2#12 + #12G	LIGHTING A2 - UPPER	4
5	LIGHTING A2 - LOWER	2#12 + #12G	20	1					0.00	0.00	1	20		SPARE	6
7	LIGHTING A2 - LOWER	2#12 + #12G	20	1	0.90	0.00					1	20		SPARE	8
9	LIGHTING A2 - LOWER	2#12 + #12G	20	1			0.90	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	PANEL CSNE	4#6 + G -1 1/4"C	50	3	5.00	0.29					3	20	3#10 + #10G	FHE-1	14
15							5.00	0.29							16
17									5.00	0.29					18
19	FHE-2	3#10 + #10G	20	3	0.29	6.20					3	30	3#8 + #10G	AC-14	20
21							0.29	6.20							22
23									0.29	6.20					24
25	AC-5	3#4 + #8G	80	3	16.00	21.00					3	125	3#1 + #6G	AC-2	26
27							16.00	21.00							28
29									16.00	21.00					30
31	AC-1	3#4 + #8G	70	3	12.00	0.00					3	20		SPARE	32
33							12.00	0.00							34
35									12.00	0.00					36
37	SPARE		20	3	0.00	0.00					3	20		SPARE	38
39							0.00	0.00							40
41									0.00	0.00					42
	LOAD PER PHASE				67.48		68.28		60.78						

TOTAL = 196.55 kVA — 236 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

DPD

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	HV-1	3#4 + #10G	60	3	14.00	2.11					3	20	3#10 + #10G	EF-4	2
3							14.00	2.11							4
5									14.00	2.11					6
7	AC-12	3#10 + #10G	20	3	2.20	0.00					3	20		SPARE	8
9							2.20	0.00							10
11									2.20	0.00					12
13	EF-25 + EF-26	3#10 + #10G	20	3	1.20	0.00					3	50		SPARE	14
15							1.20	0.00							16
17									1.20	0.00					18
19	EF-27&EF-28(1/2HP&3/4HP)	3#10+G-3/4"C	20	3	0.90	0.00					3	20		SPARE	20
21							0.90	0.00							22
23									0.90	0.00					24
25	SPARE		20	3	0.00	0.00					3	125		SPARE	26
27							0.00	0.00							28
29									0.00	0.00					30
31	SPARE		20	3	0.00	0.00					3	125		SPARE	32
33							0.00	0.00							34
35									0.00	0.00					36
37	PANEL RPD3 ALTERNATE	SEE SINGLE LINE	175	3	34.26	14.71					3	175	SEE SINGLE LINE	PANEL SHOP	38
39							34.26	14.71							40
41									34.26	14.71					42
	LOAD PER PHASE				69.38		69.38		69.38						

TOTAL = 208.13 kVA — 250 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

LPD2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 175 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING D2- MAIN	2#12+#12G	20	1	3.60	2.20					1	20	2#12+#12G	LIGHTING D2- MAIN	2
3	LIGHTING D2- MAIN	2#12+#12G	20	1			3.60	1.80			1	20	2#12+#12G	LIGHTING D2- MAIN	4
5	LIGHTING D1- UPPER	2#12+#12G	20	1					3.10	2.80	1	20	2#12+#12G	LIGHTING D1- UPPER	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	7.00					3	40	4#8 + #10G	AC-3	26
27	SPARE		20	1			0.00	7.00							28
29	SPARE		20	1					0.00	7.00					30
31	EF-6	4#10 + #10G	20	3	0.42	12.00					3	70	4#4 + #8G	AC-6	32
33							0.42	12.00							34
35									0.42	12.00					36
37	SPARE		20	3	0.00	0.00					1	20		SPARE	38
39							0.00	0.00			1	20		SPARE	40
41									0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				25.22		24.82		25.32						

TOTAL = 75.37 kVA — 91 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

LPE

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3	SPARE		20	1			0.00	0.00			1	20		SPARE	4
5	SPARE		20	1					0.00	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	PANEL LPE1	SEE SINGLE LINE	125	3	3.33	19.52					3	125	SEE SINGLE LINE	PANEL LPE2	32
33							3.33	12.42							34
35									3.33	12.42					36
37	SPARE		20	1	0.0	7.5					3	125	SEE SINGLE LINE	PANEL RPE1	38
39	SPARE		20	1			0.0	7.5							40
41	SPARE		20	1					0.0	7.5					42
	LOAD PER PHASE				30.31		23.21		23.21						

TOTAL = 76.73 kVA — 92 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

GDP

VOLTAGE: 480 Y/277V — AIC RATING: 65K — PHASE/WIRE: 3Ø-4W — BUS: 1200 AMP — MAINS: MAIN LUGS ONLY

	LOAD SERVED	FRAME	BREAKER	POLE	AMPS	KVA	CIRCUIT NOTES
1	PANEL ELS VIA ATS-L	400	400	3	165.63	137.70	
2	PANEL EPS VIA ATS-S	800	600	3	310.72	258.33	
			TOTALS:		476	396	
	NOTES:		TOTAL W/ DEMAND:		476		DEMAND 100%

1. SEE RISER FOR WIRE SIZES AND QUANTITIES.
2.
3.

SHOP

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Recept.-Clinical Area	2#12 + G	20	1	0.60	0.60					1	20	2#12 + G	Clinical Area	2
3	Theory Proj.	2#12 + G	20	1			0.80	0.60			1	20	2#12 + G	Recept.-Theory	4
5	Recept.-Theory	2#12 + G	20	1					0.80	0.00	1	20		SPARE	6
7	Recept.-Kitchen	2#12 + G	20	1	0.80	0.60					1	20	2#12 + G	Lift Computer	8
9	Theory	2#12 + G	20	1			0.80	0.60			1	20	2#12 + G	Recept.-Theory	10
11	Theory	2#12 + G	20	1					0.80	0.40	1	20	2#12 + G	Recept.-Theory	12
13	Theory	2#12 + G	20	1	0.80	0.50					1	20	2#12 + G	Recept.-Theory	14
15	Theory	2#12 + G	20	1			0.80	0.36			1	20	2#12 + G	RECEPTACLE	16
17	Theory	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	EWC	18
19	Washing Machine	2#12 + G	20	1	1.20	0.80					1	20	2#12 + G	Mens' Room	20
21	Theory	2#12 + G	20	1			0.80	0.60			1	20	2#12 + G	Recept-Auto Prod.	22
23	ATCS	2#12 + G	20	1					0.10	0.80	1	20	2#12 + G	Recept.-Theory	24
25	Drop Lights	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Recept.-Theory	26
27	Theory Proj.	2#12 + G	20	1			0.80	0.60			1	20	2#12 + G	Theory	28
29	Theory Proj.	2#12 + G	20	1					0.80	0.60	1	20	2#12 + G	Theory	30
31	208V Outlet	2#8 + #10G	40	2	2.50	0.53					1	20	2#10 + G	EF-5	32
33							2.50	0.40			1	20	2#10 + G	Roof WP Receptacle	34
35	208V Outlet	2#8 + #10G	30	2					1.00	0.60	1	20	2#12 + G	Office	36
37					1.00	0.70					1	20	2#12 + G	Office	38
39	Recept.-Office	2#12 + G	20	1			1.00	0.60			1	20	2#12 + G	Recept.-Storage	40
41	Recept.-Storage	2#12 + G	20	1					0.60	0.60	1	20	2#12 + G	Recept.-Exam	42
	LOAD PER PHASE				12.23		11.26		8.70						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

SHOP

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Locker Refrigerator	2#12 + G	20	1	1.50	0.80					1	20	2#12 + G	Lockers	44
45	Lockers	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Lockers	46
47	Goggle Cabinet	2#12 + G	20	1					0.00	1.00	1	30	2#12 + G	Brake Lathe	48
49	Receptacles	2#12 + G	20	1	0.00	1.60					1	30	2#12 + G	Bead Blaster	50
51	Cord Reel	2#12 + G	20G	1			0.50	1.20			1	20	2#12 + G	Bench Grinder	52
53	Cord Reel	2#12 + G	20G	1					0.50	1.20	1	20	2#12 + G	Valve Grinder	54
55	Cord Reel	2#12 + G	20G	1	0.50	1.00					1	20G	2#12 + G	Cord Reel	56
57	Cord Reel	2#12 + G	20G	1			0.50	0.40			1	20	2#12 + G	Recept.-Welding Shop	58
59	Cord Reel	2#12 + G	20G	1					0.50	1.00	2	30	2#10+G	Tire Balancer	60
61	Recept.-Auto Prod.	2#12 + G	20G	1	0.72	1.00									62
63	Bench Grinder	2#12 + G	20	1			0.80	1.00			2	30	2#10+G	Tire Balancer	64
65	Welder	3#8+#G	40	2					1.20	1.00					66
67					1.20	0.80					1	20	2#12 + G	Bench Grinder	68
69	Welder	4#6+#10G	60	2			1.20	0.80			1	20	2#12 + G	Press	70
71									1.20	1.20	1	20	2#12 + G	Drill Press	72
73	Recept.-Auto Prod.	2#12 + G	20G	1	0.72	0.80					1	20	2#12 + G	Pedestal Grinder	74
75	Spare		20	1			0.00	0.72			1	20	2#12 + G	Recept.-Auto Prod.	76
77	Spare		20	1					0.00	0.80	1	20	2#12 + G	Bench Grinder	78
79	Spare		20	1	0.00	3.12					3	125	4#1+#1G	PANEL SHOP 2	80
81	Spare		20	1			0.00	3.12							82
83	Spare		20	1					0.00	3.12					84
	LOAD PER PHASE				25.99		23.10		21.42						

DIVERSIFIED LOAD — TOTAL = 42.30 kVA — 117 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL, SECTION 2 & PANEL SHOP2
2.

RPD2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Teachers Lounge	2#12 + G	20	1	1.00	0.80					1	20	2#12 + G	Math 2 Proj.	2
3	Teachers Lounge	2#12 + G	20	1			0.80	0.90			1	20	2#12 + G	Math 2	4
5	Teachers Lounge	2#12 + G	20	1					0.80	0.60	1	20	2#12 + G	Math 2	6
7	Teachers Lounge	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Math 2	8
9	TOILET D201, 2020	2#12 + G	20	1			1.08	0.80			1	20	2#12 + G	Math 2	10
11	Math 1 Proj.	2#12 + G	20	1					1.00	0.50	1	20	2#12 + G	Math 4 Proj.	12
13	Math 1	2#12 + G	20	1	0.60	0.60					1	20	2#12 + G	Math 4	14
15	Math 1	2#12 + G	20	1			0.80	0.90			1	20	2#12 + G	Math 4	16
17	Math 1	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Math 4	18
19	Math 1	2#12 + G	20	1	1.00	0.80					1	20	2#12 + G	Math 4	20
21	Math 3 Proj.	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Math 6 Proj.	22
23	Math 3	2#12 + G	20	1					0.60	0.60	1	20	2#12 + G	Math 6	24
25	Math 3	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Math 6	26
27	Math 3	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Math 6	28
29	Math 3	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Math 6	30
31	Math 5 Proj.	2#12 + G	20	1	1.00	1.00					1	20	2#12 + G	Math 7 Proj.	32
33	Math 5	2#12 + G	20	1			0.60	0.90			1	20	2#12 + G	Math 7	34
35	Math 5	2#12 + G	20	1					0.90	0.60	1	20	2#12 + G	Math 7	36
37	Math 5	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Math 7	38
39	Math 5	2#12 + G	20	1			0.80	0.70			1	20	2#12 + G	Math 7	40
41	Corridor	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Water Fountain	42
	LOAD PER PHASE				11.60		11.48		10.40						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

RPD2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Janitors Closet	2#10 + #10G	20	1	0.80	0.80					1	20	2#10 + #10G	Dept. Head	44
45	ROOF WP RECEPT.	2#8 + #10G	20	1			0.40	0.80			1	20	2#10 + #10G	Dept. Head	46
47	SS-2	2#8 + #8G	30	2					1.00	1.20	1	30	2#8 + #10G	EF-1 + EF-2 + EF-48	48
49					1.00	1.20					2	30	2#8 + #8G	SS-2	50
51	SPARE		20	1			0.00	1.20							52
53	Microwave	2#12 + #12G	20	1					1.20	0.40	1	20	2#12 + #12G	Heat Trace	54
55	ATCS	2#12 + #12G	20	1	0.10	0.40					1	20	2#12 + #12G	Heat Trace	56
57	SPARE		20	1			0.00	0.30			2	20	2#10 + #10G	OP Fixture	58
59	SPARE		20	1					0.00	0.30					60
61	SPARE		20	1	0.00	0.30					2	20	2#10 + #10G	OP Fixture	62
63	SPARE		20	1			0.00	0.30							64
65	SPARE		20	1					0.00	0.72	1	20	2#12 + #12G	Recept.-Clinical	66
67	SPARE		20	1	0.00	0.72					1	20	2#12 + #12G	Recept.-Clinical	68
69	SPARE		20	1			0.00	0.72			1	20	2#12 + #12G	Recept.-Clinical	70
71	SPARE		20	1					0.00	1.20	1	20	2#12 + #12G	Microwave	72
73	SPARE		20	1	0.00	1.08					1	20	2#12 + #12G	Recept.-Bath	74
75	SPARE		20	1			0.00	1.08			1	20	2#12 + #12G	Recept.-Bath	76
77	SPARE		20	1					0.00	0.54	1	20	2#12 + #12G	Recept.-Roof	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				18.00		16.28		16.96						

DIVERSIFIED LOAD — TOTAL = 30.74 kVA — 85 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

RPE

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3	RECEPTACLES	2#12 + #12G	20	1			1.08	1.20			1	20	2#12 + #12G	RECEPTACLES	4
5	COMPUTERS	2#12 + #12G	20	1					1.20	0.80	1	20	2#12 + #12G	COMPUTERS	6
7	COMPUTERS	2#12 + #12G	20	1	1.20	0.80					1	20	2#12 + #12G	CLASSROOM	8
9	CORRIDOR RECEPT.	2#12 + #12G	20	1			0.80	0.40			1	20	2#12 + #12G	IT RECEPTACLE	10
11	IT RECEPTACLE	2#12 + #12G	20	1					1.00	1.00	2	30	2#10 + #10G	IT 208V RECEPTACLE	12
13	IT RECEPTACLE	2#12 + #12G	20	1	1.00	1.00									14
15	IT RECEPTACLE	2#12 + #12G	20	1			1.00	1.00			2	30	2#10 + #10G	IT 208V RECEPTACLE	16
17	JANITOR CLOSET	2#12 + #12G	20	1					0.20	1.00					18
19	SPARE		20	1	0.50	0.50					1	20	2#10 + #10G	UNIT HEATER	20
21	COMPUTERS	2#12 + #12G	20	1			1.08	0.40			1	20	2#12 + #12G	STAIR RECEPTACLE	22
23	COMPUTERS	2#12 + #12G	20	1					1.08	1.20	1	20	2#12 + #12G	PROJECTOR	24
25	TEACHERS DESK	2#12 + #12G	20	1	0.80	1.08					1	20	2#12 + #12G	COMPUTERS	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	COMPUTERS	2#12 + #12G	20	1					1.08	1.08	1	20	2#12 + #12G	COMPUTERS	36
37	PANEL RPEA	SEE SINGLE LINE	125	3	10.4	10.5					3	125	SEE SINGLE LINE	PANEL RPEB	38
39							10.7	11.7							40
41									7.7	11.1					42
	LOAD PER PHASE				27.83		29.28		28.43						

DIVERSIFIED LOAD — TOTAL = 51.32 kVA — 142 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

SHOP2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	RECEPTACLE	2#12+G-3/4"C	20	1	0.18	0.18					1	20	2#12+G-3/4"C	RECEPTACLE	2
3	Spare		20	1			0.00	0.00			1	20		Spare	4
5	Spare		20	1					0.00	0.00	1	20		Spare	6
7	Spare		20	1	0.00	0.00					1	20		Spare	8
9	Spare		20	1			0.00	0.00			1	20		Spare	10
11	Spare		20	1					0.00	0.00	1	20		Spare	12
13	Spare		20	1	0.00	0.00					1	20		Spare	14
15	Spare		20	2			0.00	0.00			2	20		Spare	16
17									0.00	0.00					18
19	Spare		20	2	0.00	0.00					1	20		Spare	20
21							0.00	1.00			2	20		Tire Changer	22
23	Spare		20	2					0.00	1.00					24
25					0.00	0.00					1	20		Spare	26
27	PRESS	4#10+10G	30	3			1.00	1.00			2	20		Tire Changer	28
29									1.00	1.00					30
31					1.00	0.00					1	20		Spare	32
33	Spare		20	2			0.00	0.00			1	20		Spare	34
35									0.00	0.00	1	20		Spare	36
37	Spare		20	2	0.00	2.00					3	30	4#10+#10G	Lift	38
39							0.00	2.00							40
41	SPARE		20	1					0.00	2.00					42
	LOAD PER PHASE				3.36		5.00		5.00						

DIVERSIFIED LOAD — TOTAL = 9.35 kVA — 26 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER
1.
2.

NOTE:
1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

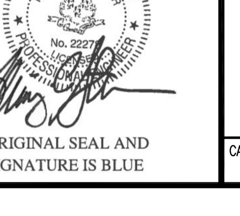
PANEL SCHEDULE DIRECTORY

MDB	DPD	SHOP	SHOP
MDB2	LPD2	RPD2	RPD2
LPE2	LPE	RPE	SHOP2
LPA2	GDP		

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature



ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS — Mark | Date | Description

CAD No. 0451ES1

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 — Scale NONE — Drawn By RML — Approved By PCS — Drawing No. E-601

FILE:0451tb REV:02/01/2007 17:15 — FILE:0451ES1 REV: 06/20/12 17:32

RPA2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	CLAB (BR) Proj.	2#12 + G	20	1	1.20	0.80					1	20	2#10 + 10G	CLAB (BR)	2
3	CLAB (BR)	2#12 + G	20	1			0.80	1.20			1	20	2#10 + 10G	CLAB (BR)	4
5	CLAB (BR)	2#12 + G	20	1					1.20	1.20	1	20	2#10 + 10G	CLAB (BR)	6
7	CLAB (BR)	2#12 + G	20	1	0.80	0.80					1	20	2#10 + 10G	CLAB (BR)	8
9	CLAB (BR)	2#12 + G	20	1			0.80	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	Prep Room	2#10 + 10G	20	1	1.70	1.70					1	20	2#10 + 10G	Bathrooms	14
15	CLAB (BL) Proj.	2#10 + 10G	20	1			1.20	0.80			1	20	2#10 + 10G	CLAB (BL)	16
17	CLAB (BL)	2#10 + 10G	20	1					1.50	1.00	1	20	2#10 + 10G	CLAB (BL) Fume Hood	18
19	CLAB (BL)	2#10 + 10G	20	1	0.80	1.20					1	20	2#10 + 10G	CLAB (BL)	20
21	CLAB (BL)	2#10 + 10G	20	1			0.80	0.80			1	20	2#10 + 10G	CLAB (BL)	22
23	CLAB (BL)	2#10 + 10G	20	1					0.80	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	CLAB (BL)	2#10 + 10G	20	1			0.80	0.80			1	20	2#10 + 10G	CLAB (BL)	28
29	CLAB (TL) Proj.	2#10 + 10G	20	1					1.20	1.20	1	20	2#10 + 10G	CLAB (TL)	30
31	CLAB (TL)	2#10 + 10G	20	1	0.60	1.20					1	20	2#10 + 10G	CLAB (TL)	32
33	CLAB (TL)	2#10 + 10G	20	1			1.20	0.80			1	20	2#10 + 10G	CLAB (TL)	34
35	CLAB (TL)	2#10 + 10G	20	1					0.80	0.80	1	20	2#10 + 10G	CLAB (TL)	36
37	CLAB (TL)	2#10 + 10G	20	1	0.80	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	Store Room	2#10 + 10G	20	1					1.00	0.80	1	20	2#10 + 10G	Store Room	42
	LOAD PER PHASE				11.60		10.00		11.50						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPA2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	CLAB (TR) Proj.	2#12 + G	20	1	1.20	1.00					1	20	2#12 + G	CLAB (TR)	44
45	CLAB (TR) Fume Hood	2#12 + G	20	1			0.80	1.20			1	20	2#12 + G	CLAB (TR)	46
47	CLAB (TR)	2#12 + G	20	1					1.20	0.60	1	20	2#12 + G	CLAB (TR)	48
49	CLAB (TR)	2#12 + G	20	1	1.20	0.80					1	20	2#12 + G	CLAB (TR)	50
51	CLAB (TR)	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	CLAB (TR)	52
53	SPARE		20	1					0.00	0.00	1	20		SPARE	54
55	Bathroom	2#12 + G	20	1	1.08	1.20					1	20	2#12 + G	Projector	56
57	Room	2#12 + G	20	1			0.80	1.20			1	20	2#12 + G	Room	58
59	Prep Room	2#10 + 10G	20	1					0.80	0.60	1	20	2#10 + 10G	Prep Room	60
61	Prep Room Ice	2#10 + 10G	20	1	1.50	1.50					1	20	2#10 + 10G	Prep Room Ice	62
63	Prep Room Ref	2#10 + 10G	20	1			1.50	1.50			1	20	2#10 + 10G	Prep Room Ref	64
65	Hallw ay	2#10 + 10G	20	1					1.00	0.40	1	20	2#10 + 10G	Stairw ay	66
67	Storage RM	2#10 + 10G	20	1	0.36	1.50					1	20	2#10 + 10G	Computer Lab	68
69	Computer Lab	2#10 + 10G	20	1			1.50	1.50			1	20	2#10 + 10G	Computer Lab	70
71	Computer Lab	2#10 + 10G	20	1					1.50	1.50	1	20	2#10 + 10G	Computer Lab	72
73	Computer Lab	2#10 + 10G	20	1	1.50	1.50					1	20	2#10 + 10G	Computer Lab	74
75	SPARE		20	1			0.00	0.50			1	20	2#10 + 10G	Stair A2 CUH-A	76
77	SPARE		20	1					0.00	0.10	1	20	2#12 + #12G	ATCS	78
79	ATCS	2#12 + #12G	20	1	0.10	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.25	1	20	2#12 + #12G	Test Sw itch	84
	LOAD PER PHASE				26.04		22.10		19.45						

DIVERSIFIED LOAD — TOTAL = 40.55 kVA — 113 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

LPC

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING C4- MAIN	2#12+#12G	20	1	1.50	1.90					1	20	2#12+#12G	LIGHTING C4- MAIN	2
3	LIGHTING C2	2#12+#12G	20	1			0.00	2.50			1	20	2#12+#12G	LIGHTING C4- MAIN	4
5	LIGHTING C1- MAIN	2#12+#12G	20	1					3.30	2.40	1	20	2#12+#12G	LIGHTING C1- MAIN	6
7	LIGHTING C1- MAIN	2#12+#12G	20	1	2.90	3.10					1	20	2#12+#12G	LIGHTING C1- MAIN	8
9	LIGHTING C1- MAIN	2#12+#12G	20	1			2.00	2.30			1	20	2#12+#12G	LIGHTING C1- MAIN	10
11	LIGHTING C1- MAIN	2#12+#12G	20	1					2.50	2.20	1	20	2#12+#12G	LIGHTING C2+C3- MAIN	12
13	LIGHTING C2+C3- MAIN	2#12+#12G	20	1	2.40	3.10					1	20	2#12+#12G	LIGHTING C2+C3- MAIN	14
15	LIGHTING C2+C3- MAIN	2#12+#12G	20	1			2.20	1.90			1	20	2#12+#12G	RELAY PANEL- CNC/1	16
17	RELAY PANEL- CNC/2	2#12+#12G	20	1					1.00	0.50	1	20	2#12+#12G	RELAY PANEL- CNC2/1	18
19	RELAY PANEL- CNC2/2	2#12+#12G	20	1	0.70	0.00									20
21	RELAY PANEL- CNC2/3	2#12+#12G	20	1			0.70	0.00			3	30		SPARE	22
23	RELAY PANEL- CNC2/4	2#12+#12G	20	1					0.90	0.00					24
25					4.40	6.00									26
27	AC-8	3#8 + #10G	30	3			4.40	6.00			3	40	3#6 + #10G	AC-9	28
29									4.40	6.00					30
31					5.30	5.30									32
33	AC-10A	3#8 + #10G	30	3			5.30	5.30			3	30	3#8 + #10G	AC-10B	34
35									5.30	5.30					36
37					5.30	22.85									38
39	AC-7	3#8 + #10G	30	3			5.30	22.75			3	175	SEE SINGLE LINE	PANEL RDPC	40
41									5.30	23.25					42
	LOAD PER PHASE				64.75		60.65		62.35						

TOTAL = SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

LPC

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	RELAY PANEL- CNL/1	2#12+#12G	20	1	1.30	0.70					1	20	2#12+#12G	RELAY PANEL- CNL/2	44
45	RELAY PANEL- CNL/3	2#12+#12G	20	1			0.30	0.30			1	20	2#12+#12G	RELAY PANEL- CNL/4	46
47	RELAY PANEL- CNL/5	2#12+#12G	20	1					0.70	1.20	1	20	2#12+#12G	RELAY PANEL- CNL/6	48
49	RELAY PANEL- CNL/7	2#12+#12G	20	1	2.00	0.50					1	20	2#12+#12G	RELAY PANEL- CSNC	50
51							3.60	0.50			1	20	2#12+#12G	RELAY PANEL- CSNC	52
53	AC-16	4#10 + 10#G	20	3					3.60	0.50	1	20	2#12+#12G	RELAY PANEL- CSNC2	54
55					3.60	0.60					1	20	2#12+#12G	RELAY PANEL- CNL/8	56
57							0.44	0.40			1	20	2#12+#12G	RELAY PANEL- CSNC2	58
59	EF-16	3#12+G-3/4"C	20	3					0.44	0.40	1	20	2#12+#12G	RELAY PANEL- CSNC2	60
61					0.44	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				73.89		66.19		69.19						

TOTAL = 209.27 kVA — 252 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPE2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	English Classroom Proj.	2#8 + 8G	20	1	1.20	1.00					1	30	2#8 + 8G	Work Room Laptop	2
3	English Classroom	2#8 + 8G	20	1			1.10	1.00			1	20	2#8 + 8G	Work Room Laptop	4
5	English Classroom	2#8 + 8G	20	1					1.50	1.50	1	20	2#8 + 8G	Work Room	6
7	English Classroom	2#8 + 8G	20	1	1.50	1.08					1	20	2#8 + 8G	Work Room	8
9	English Classroom	2#8 + 8G	20	1			1.10	1.15			1	20	2#8 + 8G	Office	10
11	Hallw ay	2#8 + 8G	20	1					0.80	1.20	1	20	2#8 + 8G	English Classroom Proj.	12
13	Media Center	2#10 + 10G	20	1	0.80	1.30					1	20	2#8 + 8G	English Classroom	14
15	Media Center	2#10 + 10G	20	1			1.20	1.10			1	20	2#8 + 8G	English Classroom	16
17	Projection Screen	2#10 + 10G	20	1					1.00	1.00	1	20	2#8 + 8G	English Classroom	18
19	Media Center	2#10 + 10G	20	1	1.00	1.50					1	20	2#8 + 8G	English Classroom	20
21	Media Center	2#10 + 10G	20	1			1.00	1.20			1	20	2#10 + 10G	Classroom Proj.	22
23	Media Center	2#10 + 10G	20	1					2.00	1.50	1	20	2#10 + 10G	Classroom	24
25	Media Center	2#10 + 10G	20	1	2.00	0.80					1	20	2#10 + 10G	Classroom	26
27	Media Center	2#10 + 10G	20	1			2.00	0.90			1	20	2#10 + 10G	Classroom	28
29	Media Center	2#10 + 10G	20	1					1.00	0.00	1	20	2#10 + 10G	Classroom	30
31	Lounge Area	2#10 + 10G	20	1	0.00	1.50					1	20	2#10 + 10G	Classroom	32
33	Control Room Laptop	2#10 + 10G	30	1			1.00	1.50			1	20	2#10 + 10G	Classroom	34
35	Control Room	2#10 + 10G	20	1					0.90	1.50	1	20	2#10 + 10G	Classroom	36
37	Control Room	2#10 + 10G	20	1	1.00	1.50					1	20	2#10 + 10G	Classroom	38
39	Control Room	2#10 + 10G	20	1			1.00	1.50			1	20	2#10 + 10G	Classroom	40
41	Hallw ay	2#12 + 12G	20	1					1.20	1.50	1	20	2#10 + 10G	Classroom	42
	LOAD PER PHASE				16.18		16.75		16.60						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPE2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	TOILET E205	2#12 + 12G	20	1	0.54	1.20					1	20	2#10 + 10G	English Classroom Proj.	44
45							5.10	0.80			1	20	2#10 + 10G	English Classroom	46
47	RPE2a	4#1+#6G	125	3					2.80	1.50	1	20	2#10 + 10G	English Classroom	48
49					2.70	1.50					1	20	2#10 + 10G	English Classroom	50
51	English Classroom Proj.	2#12 + 12G	20	1			1.20	0.60			1	20	2#10 + 10G	English Classroom	52
53	English Classroom	2#12 + 12G	20	1					0.80	1.20	1	20	2#12 + 12G	English Classroom Proj.	54
55	English Classroom	2#12 + 12G	20	1	0.60	0.80					1	20	2#12 + 12G	English Classroom	56
57	English Classroom	2#12 + 12G	20	1			1.50	0.60			1	20	2#12 + 12G	English Classroom	58
59	English Classroom	2#12 + 12G	20	1					1.50	1.50	1	20	2#12 + 12G	English Classroom	60
61	Life Skills Proj.	2#12 + 12G	20	1	1.20	1.50					1	20	2#12 + 12G	English Classroom	62
63	Life Skills	2#12 + 12G	20	1			1.20	1.00			1	20	2#12 + 12G	IDF	64
65	Life Skills	2#12 + 12G	20	1					0.60	1.00	1	20	2#12 + 12G	ELL Office	66
67	Life Skills	2#12 + 12G	20	1	1.50	1.00					1	20	2#12 + 12G	ELL Office	68
69	Life Skills	2#12 + 12G	20	1			1.50	1.00			1	20	2#12 + 12G	ELL Office	70
71	ELL Classroom	2#12 + 12G	20	1					1.00	1.20	1	20	2#12 + 12G	Classroom Projector	72
73	ELL Classroom	2#12 + 12G	20	1	1.00	0.00					1	20		SPARE	74
75	ELL Classroom	2#12 + 12G	20	1			1.00	0.20			1	20	2#10 + #10G	ROOF WP RECEPTACLE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	ATCS	2#12 + 12G	20	1			0.10	0.54			1	20	2#12 + 12G	ROOF WP RECEPTACLE	82
83	ATCS	2#12 + 12G	20	1					0.10	0.36	1	20	2#12 + 12G	ROOF WP RECEPTACLE	84
	LOAD PER PHASE				29.72		33.09		30.16						

DIVERSIFIED LOAD — TOTAL = 55.78 kVA — 155 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPE2a

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	TV Studio Projector	2#10 + 10G	20	1	1.20	1.50									2
3	TV Studio	2#10 + 10G	20	1			0.80	1.50			3	50	4#6+6G	DP-2	4
5	TV Studio	2#10 + 10G	20	1					1.20	1.50					6
7	TV Studio	2#10 + 10G	20	1	1.40	1.00					1	20	2#12+#12G	Water Fountain	8
9	SPARE		20	1			0.00	0.50			1	20	2#12+#12G	Control Rm Track	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				5.10		2.80		2.70						

TOTAL = 10.60 kVA — 29 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

LPD

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING D1- MAIN	2#12+#12G	20	1	2.30	1.20					1	20	2#12+#12G	LIGHTING D1- MAIN	2
3	LIGHTING D1- MAIN	2#12+#12G	20	1			1.90	2.20			1	20	2#12+#12G	RELAY PANEL- CND/1	4
5	RELAY PANEL- CND/2	2#12+#12G	20	1					1.00	0.00	1	20	2#12+#12G	RELAY PANEL- CSD	6
7	RELAY PANEL- CND/3	2#10+#10G	20	1	0.40	0.40					1	20	2#10+#10G	RELAY PANEL- CND/4	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	15.82									32
33	SPARE		20	1			0.00	15.82			3	175	SEE SINGLE LINE	PANEL RPD	34
35	SPARE		20	1					0.00	15.82					36
37	SPARE		20	1	0.00	25.22									38
39	SPARE		20	1			0.00	24.82			3	175	SEE SINGLE LINE	PANEL LPD2	40
41	LIGHTING ALTERNATE	2#10 + #10G	20	1					1.00	25.32					42
	LOAD PER PHASE				45.34		44.74		43.14						

DIVERSIFIED LOAD — TOTAL = 133.23 kVA — 160 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPC

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Adult Ed. Office 1	2#10 + 10G	20	1	1.20	0.80					1	20	2#10 + 10G	Confrence Room	2
3	Social Worker	2#10 + 10G	20	1			1.00	1.20			1	20	2#10 + 10G	Conf. Room Projector	4
5	Psychologist	2#10 + 10G	20	1					1.00	1.20	1	20	2#10 + 10G	Testing	6
7	Guidance 1	2#10 + 10G	20	1	1.00	1.00					1	20	2#10 + 10G	Guidance 2	8
9	Adult Ed. Office 2	2#10 + 10G	20	1			0.80	1.40			1	20	2#10 + 10G	Reception	10
11	Adult Ed. Office 3	2#10 + 10G	20	1					0.80	0.60	1	20	2#10 + 10G	Copy Room 1	12
13	Bathroom Recept	2#10 + 10G	20G	1	1.08	1.50					1	20	2#10 + 10G	Copy Room 2	14
15	Refrigerator	2#10 + 10G	20	1			1.20	1.20			1	20	2#10 + 10G	Guidance 3	16
17	Vault/Hallw ay	2#10 + 10G	20	1					1.00	1.20	1	20	2#10 + 10G	Guidance 4	18
19	Cot Room	2#10 + 10G	20	1	1.00	1.20					1	20	2#10 + 10G	Guidance 5	20
21	Exam Room	2#10 + 10G	20	1			1.00	1.20			1	20	2#10 + 10G	Guidance 6	22
23	Office	2#10 + 10G	20	1					1.00	1.00	1	20	2#10 + 10G	Store Room/Hallw ay	24
25	Waiting Room	2#10 + 10G	20	1	0.80	1.00					1	20	2#10 + 10G	Treatment Room	26
27	Career Center 1	2#10 + 10G	20	1			1.08	1.00			1	20	2#10 + 10G	Career Center 2	28
29	Career Center 3	2#10 + 10G	20	1					1.20	1.20	1	20	2#10 + 10G	Career Center 4	30
31	Career Center 5	2#10 + 10G	20	1	1.40	1.40					1	20	2#10 + 10G	Career Center 6	32
33	Career Center 7	2#10 + 10G	20	1			1.20	1.00			1	20	2#12 + G	Office Receptacles	34
35	Principal's Office	2#12 + G	20	1					1.00	1.00	1	20	2#12 + G	Confrence Room	36
37	Principal's Office	2#12 + G	20	1	1.00	2.20									38
39	Asst. Principal 1	2#12 + G	20	1			1.00	2.20			3	100	3#2+ #8G	Feed to RPCC	40
41	Asst. Principal 2	2#12 + G	20	1					1.00	2.20					42
	LOAD PER PHASE				16.58		16.48		15.40						

DIVERSIFIED LOAD — TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPC

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Hallw ay	2#12 + G	20	1	0.80	1.00					1	20	2#12 + G	Buisness Manager	44
45	Dean's Office	2#12 + G	20	1			1.00	0.10			1	20	2#12 + G	ATCS	46
47	Hallw ay	2#12 + G	20	1					1.20	0.60	1	20	2#12 + G	Multi-Purpose Room	48
49	Kitchen	2#12 + G	20	1	1.20	0.10					1	20	2#12 + G	ATCS	50
51	Kitchen	2#12 + G	20	1			0.36	0.60			1	20	2#12 + G	C113+C117 CUH-C	52
53	Copy Room	2#12 + G	20	1					1.50	1.00	1	20	2#12 + G	VEST C102C CUH-A	54
55	Copy Room	2#12 + G	20	1	1.50	0.50					1	20	2#12 + G	CUH-C	56
57	Copy Room	2#12 + G	20	1			1.00	0.60			1	20	2#12 + G	Lobby	58
59	Copy Room	2#12 + G	20	1					1.00	1.00	1	20	2#12 + G	Security Room 1	60
61	Office	2#12 + G	20	1	0.60	1.00					1	20	2#12 + G	Security Room 2	62
63	Hallw ay	2#12 + G	20	1			0.60	0.60			1	20	2#12 + G	Multi-Purpose Room	64
65	Storage Rooms	2#12 + G	20	1					0.60	1.00	1	20	2#12 + G	Multi-Purpose Room	66
67	Security Equipment	2#12 + G	20	1	0.50	1.00					1	20	2#12 + G	Multi-Purpose Room	68
69	Ice Maker	2#12 + G	20	1			1.50	1.20			1	20	2#12 + G	MPR Projector	70
71	Receptacles	2#12 + G	20	1					0.40	0.50	1	20	2#12 + G	MPR Motor	72
73	Kitchen Receptacles	2#10 + G	20	1	0.60	0.50					1	20	2#12 + G	Security Pow er	74
75	Under Cab Refrigerator	2#10 + G	20	1			1.20	1.00			1	20	2#12 + G	Security Desk	76
77	Under Cab Refrigerator	2#10 + G	20	1					1.20	1.40	1	20	2#8 + #10G	EF-13 + EF-14	78
79	MEN SHOWER C143	2#12 +#12G	20	1	0.54	0.60					1	20	2#12 + G	Treatment Room	80
81	WOMEN C114B	2#12 +#12G	20	1			0.54	1.50			1	20	2#12 + G	Microw ave	82
83	Air Compressor Dry Pipe	2#12 + G	20	1					0.70	0.00	1	20		SPARE	84
	LOAD PER PHASE				27.02		28.28		27.50						

DIVERSIFIED LOAD — TOTAL = 49.67 kVA — 138 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPD

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Recep. OR	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Scrub Area	2
3	Recep. OR	2#12 + G	20	1			0.40	0.60			1	20	2#12 + G	Storage	4
5	Recep. Comp Rm.	2#12 + G	20	1					0.50	0.70	1	20	2#12 + G	Recep. Comp Rm.	6
7	Recep. Comp Rm.	2#12 + G	20	1	0.60	0.80					1	20	2#12 + G	Recep. Comp Rm.	8
9	Recep. Comp Rm.	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Recep. Comp Rm.	10
11	Recep. Comp Rm.	2#12 + G	20	1					0.70	0.70	1	20	2#12 + G	Recep. Comp Rm.	12
13	Recep. Comp Rm.	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Recep. Comp Rm.	14
15	Recep. Comp Rm.	2#12 + G	20	1			0.80	0.20			1	20	2#12 + G	Recep. Lockers	16
17	Handicapped Bathroom	2#12 + G	20	1					0.50	0.60	1	20	2#12 + G	Office	18
19	Room Proj.	2#12 + G	20	1	0.60	0.60					1	20	2#12 + G	Office	20
21	Room	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Lab	22
23	Room	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Lab	24
25	Room	2#12 + G	20	1	0.80	0.54					1	20	2#12 + G	Bathroom	26
27	Room	2#12 + G	20	1			0.70	0.90			1	20	2#12 + G	MW- Lockers	28
29	Room	2#12 + G	20	1					0.20	0.20	1	20	2#12 + G	Lab	30
31	Room	2#12 + G	20	1	0.40	1.00					1	20	2#12 + G	Lab	32
33	Nurse's Station	2#12 + G	20	1			0.20	0.60			1	20	2#12 + G	Lab	34
35	Nurse's Station	2#12 + G	20	1					0.20	1.00	1	20	2#12 + G	Storage	36
37	Nurse's Station	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Storage	38
39	Nurse's Station	2#12 + G	20	1			1.00	0.95			1	20	2#12 + G	Storage	40
41	Storage	2#12 + G	20	1					0.60	0.60	1	20	2#12 + G	Office	42
	LOAD PER PHASE				10.14		9.55		8.10						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPD

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Theory Proj.	2#12 + G	20	1	1.20	0.60					1	20	2#12 + G	Corridor	44
45	Theory	2#12 + G	20	1			0.60	0.40			1	20	2#12 + G	Corridor	46
47	Theory	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Staff Room (F)	48
49	Theory	2#12 + G	20	1	0.70	0.80					1	20	2#12 + G	Staff Room (F)	50
51	Staff Room (F)	2#12 + G	20	1			0.80	0.80			1	20	2#12 + G	Staff Room (F)	52
53	Staff Room (F)	2#12 + G	20	1					0.80	0.80	1	20	2#12 + G	Staff Room (F)	54
55	Room Proj.	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	Room	56
57	Room	2#12 + G	20	1			0.60	0.60			1	20	2#12 + G	Room	58
59	Room	2#12 + G	20	1					0.70	0.70	1	20	2#12 + G	Room	60
61	Room	2#12 + G	20	1	0.80	0.60					1	20	2#12 + G	Room	62
63	Room	2#12 + G	20	1			0.80	0.40			1	20	2#12 + G	Room	64
65	VEST. D141 CUH-A	2#12 + G	20	1					0.80	0.50	1	20	2#12 + G	Card Reader Pow er	66
67	ATCS	2#12 + G	20	1	0.10	0.10					1	20	2#12 + G	ATCS	68
69	TOILET D137	2#12 + G	20	1			0.54	1.08			1	20	2#12 + G	Staff Room (f&M)	70
71	D162 BATHROOM	2#12 + G	20	1					0.54	0.20	1	20	2#12 + G	Scrub Sinks	72
73	Theory	2#12 + G	20	1	0.80	0.18					1	20	2#12 + G	DRINKING FOUNTAIN	74
75	Theory	2#12 + G	20	1			0.80	1.26			2	30	3#8+#8G	SS-1	76
77	TOILET D152	2#12 + G	20	1					0.54	1.26					78
79	SPARE		20	1	0.00	10.11									80
81	ATCS	2#12 + G	20	1			0.10	10.11			3	225	SEE SINGLE LINE	PANEL RPD2	82
83	MW - Nurse Station	2#12 + G	20	1					1.20	10.11					84
	LOAD PER PHASE				27.73		28.44		27.85						

DIVERSIFIED LOAD — TOTAL = 50.42 kVA — 140 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

PANEL SCHEDULE DIRECTORY

RPA2	RPA2	LPC	LPC
RPE2	RPE2	RPE2a	LPD
RPC	RPC	RPD	RPD

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT — PHILIP C. STEINER — No. 22272 — LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES2

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD, HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 — Scale NONE — Drawn By RML — Approved By PCS — Drawing No. E-602

FILE:0451tb REV:02/01/2007 17:15
FILE:0451ES2 REV: 06/20/12 17:37

208 Y/120V · 65K AIC · 3Ø-4W

PLUMB

BUS: 225 AMP · MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EF-31, EF-32	2#12 + #12G	20	1	1.60	0.90					1	20	2#12 + #12G	RECEPT.-OFFICE	2
3	BATHROOMS	2#12 + #12G	20	1			0.50	6.00							4
5	RECEPTACLES	2#12 + #12G	20	1					0.50	6.00	3	100	3#6+G-1"C.	AIR COMPRESSOR	6
7	RECEPTACLES	2#12 + #12G	20	1	0.80	6.00									8
9	RECEPTACLES	2#12 + #12G	20	1			1.00	0.00			1	20		SPARE	10
11	BOILER	2#12 + #12G	20	1					1.00	1.50	2	20	2#12 + #12G	ELEC. WATER HEATER	12
13	BOILER	2#12 + #12G	20	1	1.00	5.00									14
15	BOILER	2#12 + #12G	20	1			1.00	0.72			1	20	2#12 + #12G	RECEPTACLES	16
17	PROJECTOR	2#12 + #12G	20	1					1.00	0.72	1	20	2#12 + #12G	RECEPTACLES	18
19	WASH SINK	2#12 + #12G	20	1	0.18	0.54					1	20	2#12 + #12G	RECEPTACLES	20
21	SPARE		20	1			0.00	0.72			1	20	2#12 + #12G	RECEPTACLES	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	5.80					1	20	2#12 + #12G	COMPUTER	26
27	EF-3	2#10 + #12G	20	1			0.86	0.00			1	20		SPARE	28
29	EF-37, EF-47	2#12 + #12G	20	1					1.00	0.00	1	20		SPARE	30
31	RECEPT.-ROOF	2#10 + #12G	20	1	0.72	0.40					1	20	2#12 + #12G	HEAT TRACE	32
33	RECEPT.-ROOF	2#10 + #12G	20	1			0.72	0.40			1	20	2#12 + #12G	HEAT TRACE	34
35	RECEPT.-ROOF	2#10 + #12G	20	1					0.72	1.00	1	20	2#12 + #12G	GAS WATER HEATER	36
37	BOILER	2#12 + #12G	20	1	0.80	0.00					1	20		SPARE	38
39	RECEPTACLES	2#12 + #12G	20	1			0.60	0.60			1	20	2#12 + #12G	RECEPTACLES	40
41	RECEPTACLES	2#12 + #12G	20	1					0.60	0.00	1	20		SPARE	42
				LOAD PER PHASE	23.74		13.12		14.04						

TOTAL = SECTION 2 · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

PLUMB

BUS: 225 AMP · MAIN: 225 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Cord Reel	2#12+#12G	20	1	0.50	5.00									44
45	Cord Reel	2#12+#12G	20	1			0.50	5.00			3	40	4#4 + #10G	WELDER	46
47	Cord Reel	2#12+#12G	20	1					0.50	5.00					48
49	Cord Reel	2#12+#12G	20	1	0.50	5.00									50
51	Cord Reel	2#12+#12G	20	1			0.50	5.00			3	60	4#4 + #10G	WELDER	52
53	DRILL PRESS	2#12+#12G	20	1					0.00	5.00					54
55	GRINDER	2#12+#12G	20	1	1.00	0.00					1			SPARE	56
57	Roof Recep	2#12+#12G	20	1			0.20	0.00			1			SPARE	58
59	Roof Recep	2#12+#12G	20	1					0.20	0.54	1	20	2#12+#12G	B154 TOILET	60
61	Roof Recep	2#12+#12G	20	1	0.20	0.00					1			SPARE	62
63	DED RECEPTACLE	2#12+#12G	20	1			1.00	0.00			1			SPARE	64
65	DED RECEPTACLE	2#12+#12G	20	1					1.00	0.00	1			SPARE	66
67	SPARE	2#12+#12G	20	1	0.00	0.00					1			SPARE	68
69	SPARE	2#12+#12G	20	1			0.00	0.00			1			SPARE	70
71	SPARE	2#12+#12G	20	1					0.00	0.00	1			SPARE	72
73	SPARE	2#12+#12G	20	1	0.00	0.00					1			SPARE	74
75	SPARE	2#12+#12G	20	1			0.00	0.00			1			SPARE	76
77	SPARE	2#12+#12G	20	1					0.00	0.00	1			SPARE	78
79	SPARE	2#12+#12G	20	1	0.00	0.00					1			SPARE	80
81	SPARE	2#12+#12G	20	1			0.00	0.00			1			SPARE	82
83	SPARE	2#12+#12G	20	1					0.00	0.00	1			SPARE	84
				LOAD PER PHASE	35.94		25.32		26.28						

TOTAL = 52.52 kVA · 146 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL & SECTION 2.

2.

208 Y/120V · 65K AIC · 3Ø-4W

MANU

BUS: 400 AMP · MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	WASH FOUNDTAIN	2#12 + #12G	20	1	0.18	0.72					1	20	2#12 + #12G	RECEPTS.-OFFICE	2
3	RECEPTACLES	2#12 + #12G	20	1			0.54	0.72			1	20	2#12 + #12G	RECEPTS.-OFFICE	4
5	RECEPTACLES	2#12 + #12G	20	1					0.40	0.40	1	20	2#12 + #12G	RECEPTACLES	6
7	SPARE		20	1	0.00	0.72					1	20	2#12 + #12G	RECEPTACLES	8
9	SPARE		20	1			0.00	1.80			2	40	3#8 + #10G	IRRIGATION PUMP	10
11	SPARE		20	1					0.00	1.80					12
13	SPARE		20	1	0.00	0.72					1	20	2#12 + #12G	RECEPTACLES	14
15	EWC	2#12 + #12G	20	1			0.50	0.72			1	20	2#12 + #12G	RECEPTACLES	16
17	CUH-A	2#12 + #12G	20	1					0.30	1.08	1	20	2#12 + #12G	BATHROOM B104/B105	18
19	IRRIGATION CTR	2#12 + #12G	20	1	0.50	0.20					1	20	2#12 + #12G	DAMPER	20
21	RECEPTACLE	2#12 + #12G	20	1			0.18	0.18			1	20	2#12 + #12G	WASH FOUNTAIN	22
23	CHEMICAL PUMP 1/4HP	2#12 + #12G	20	1					0.70	0.20	1	20	2#12 + #12G	DAMPER	24
25	CHEMICAL PUMP 1/4HP	2#12 + #12G	20	1	0.70	0.18					1	20	2#12 + #12G	GPS TONE G.	26
27	SPARE		20	1			0.00	0.18			1	20	2#12 + #12G	REFRIGERANT PNL	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
				LOAD PER PHASE	3.92		4.82		4.88						

TOTAL = 13.62 kVA · 38 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

MANU

BUS: 400 AMP · MAIN: 400 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	CORD REEL	2#12 + #12G	20G	1	0.50	1.00					1	20	2#12+#12G	SAND BLASTER	44
45	CORD REEL	2#12 + #12G	20	1			0.50	2.40							46
47									0.60	2.40	3	30	3#10+10G	SURFACE GRINDER	48
49	CNC PLASMA	3#2+10G	100	3	0.85	2.40									50
51							1.20	2.40							52
53	RECEPTACLES	2#12 + #12G	20	1					0.72	2.40	3	30	3#10+10G	SURFACE GRINDER	54
55	PEDESTAL GRINDER	2#12 + #12G	20	1	1.10	2.40									56
57	RECEPTACLES	2#12 + #12G	20	1			0.72	2.40							58
59	PEDESTAL GRINDER	2#12 + #12G	20	1					0.80	2.40	3	30	3#10+10G	SURFACE GRINDER	60
61	PEDESTAL GRINDER	2#12 + #12G	20	1	0.80	2.40									62
63	RECEPTACLES	2#12 + #12G	20	1			0.40	5.00							64
65	RECEPTACLES	2#12 + #12G	20	1					0.90	5.00	3	40	3#8+G	AUTO SURFACE GRINDER	66
67	CORD REEL	2#12 + #12G	20	1	0.50	5.00									68
69	CORD REEL	2#12 + #12G	20	1			0.50	5.00							70
71	CORD REEL	2#12 + #12G	20	1					0.50	5.00	3	40	3#8+G	SURFACE GRINDER	72
73	COMPARATOR	2#12 + #12G	20	1	0.50	5.00									74
75	CMM	2#12 + #12G	20	1			0.50	0.18			1	20	2#12+#12G	WASH FOUNDTAIN	76
77	BENCH LATHE	2#12 + #12G	20	1					1.00	0.00	1	20		SPARE	78
79	BENCH MILL	2#12 + #12G	20	1	1.00	0.00					1	20		SPARE	80
81	BENCH MILL	2#12 + #12G	20	1			1.00	0.00			1	20		SPARE	82
83	SPARE		20	1					1.00	0.00	1	20		SPARE	84
				LOAD PER PHASE	27.37		27.02		27.60						

DIVERSIFIED · TOTAL = 49.19 kVA · 137 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL.

2.

480 Y/277V · 65K AIC · 3Ø-4W

LPB

BUS: 400 AMP · MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1					0.94	0.83									2
3	EF-22	3#12+#12G	20	3			0.94	0.83			3	20	3#12+#12G	EF-39	4
5									0.94	0.83					6
7					0.00	0.00					1	20		SPARE	8
9	Spare		100	3			0.00	0.00			1	20		SPARE	10
11									0.00	2.40	1	20	2#10+#12G	LIGHTING B2- MAIN	12
13					30.00	4.00					1	20	2#10+#12G	LIGHTING B1- MAIN	14
15	Spindle Moulder	4#4/0+#4G	200	3			30.00	2.90			1	20	2#10+#12G	LIGHTING B1- MAIN	16
17									30.00	4.10	1	20	2#10+#12G	LIGHTING B1- MAIN	18
19	LIGHTING B1- MAIN	2#10+#12G	20	1	4.37	0.30									20
21	LIGHTING B2- MAIN	2#10+#12G	20	1			2.00	0.30			3	20	4#12+#12G	EF-41	22
23	LIGHTING B2- MAIN	2#10+#12G	20	1					2.00	0.30					24
25	RELAY PANEL- CNB	2#12+#12G	20	1	1.70	1.00					1	20	2#10+#10G	RELAY PANEL- CSB	26
27							0.30	0.30							28
29	EF-29 &EF-43	4#12+#12G	20	3					0.30	0.30	3	20	4#12+#12G	EF-40	30
31					0.30	0.30									32
33	SPARE		20	1			0.00	0.30							34
35	SPARE		20	1					0.00	0.30	3	20	4#12+#12G	EF-42	36
37	SPARE		20	1	0.00	0.30									38
39	LIGHTING B1- MAIN	2#10+#12G	20	1			1.80	3.00			1	20	2#10+#12G	LIGHTING B2- MAIN	40
41	RELAY PANEL- CSB	2#10+#10G	20	1					0.00	3.40	1	20	2#10+#12G	LIGHTING B2- MAIN	42
				LOAD PER PHASE	44.04		42.67		44.87						

TOTAL = 131.59 kVA · 158 AMPS · A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

CPU-B

BUS: 125 AMP · MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	VIDEO PROJECTOR	2#12 + #12G	20	1	1.50	0.00					1	20		SPARE	2
3	COMPUTERS	2#12 + #12G	20	1			1.20	1.20			1	20	2#12 + #12G	COMPUTERS	4
5	COMPUTERS	2#12 + #12G	20	1					1.20	1.20	1	20	2#12 + #12G	COMPUTERS	6
7	COMPUTERS	2#12 + #12G	20	1	1.20	1.20					1	20	2#12 + #12G	COMPUTERS	8
9	COMPUTERS	2#12 + #12G	20	1			1.20	1.20			1	20	2#12 + #12G	PROJECTOR	10
11	TEACHER STATION	2#12 + #12G	20	1					0.80	1.20	1	20	2#12 + #12G	COMPUTERS	12
13	RECEPTACLES	2#12 + #12G	20	1	0.60	1.20					1	20	2#12 + #12G	COMPUTERS	14
15	COMPUTERS	2#12 + #12G	20	1			0.90	0.80			1	20	2#12 + #12G	COMPUTERS	16
17	COMPUTERS	2#12 + #12G	20	1					0.30	0.90	1	20	2#12 + #12G	COMPUTERS	18
19	COMPUTERS	2#12 + #12G	20	1	0.40	0.90					1	20	2#12 + #12G	COMPUTERS	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31			20	1	0.00	0.00					1	20			32
33			20	1			0.00	0.00			1	20			34
35			20	1					0.00	0.00	1	20			36
37			20	1	0.00	0.00					1	20			38
39			20	1			0.00	0.00			1	20			40
41			20	1					0.00	0.00	1	20			42
				LOAD PER PHASE	7.00		6.50		5.60						

TOTAL = 19.10 kVA · 53 AMPS · A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

240 Y/120V · 65K AIC · 3Ø-4W

GRAPHICS2

BUS: 100 AMP · MAIN: 100 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	DIGITAL PRESS	4#8 + #10G	30	2	2.90	2.00					2	30	4#8 + #10G	CHALLENGER PAPER CUTTER	2
3							2.90	2.00							4
5	SPARE		20	1					0.00	0.00	1	20		SPARE	6
7	AGFA PROCESSOR	4#8 + #10G	30	2	2.00	2.00					2	30	4#8 + #10G	PLATE MAKER	8
9							2.00	2.00							10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
				LOAD PER PHASE	20.74		20.39		9.13						

DIVERSIFIED LOAD · TOTAL = 30.16 kVA · 73 AMPS · A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

RDPC

BUS: 400 AMP · MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	RECEPTACLE WP	2#10 + #10G	20	1	0.20	0.40					1	20	2#10 + #10G	RECEPTACLE WP	2
3	EF-15	2#10 + #10G	20	1			0.70	0.00			1	20		SPARE	4
5	RECEPTACLE WP	2#10 + #10G	20	1					0.20	1.50	1	20	2#10 + #10G	EF-49 + EF-50 + EF-51	6
7	RECEPTACLE WP	2#10 + #10G	20	1	0.20	0.50					1	20	2#10 + #10G	EF-52	8
9	RECEPTACLE WP	2#10 + #10G	20	1			0.20	0.00			1	20		SPARE	10
11	Heat Trace	2#12 + #12G	20	1					0.40	0.00	1	20		SPARE	12
13	Heat Trace	2#12 + #12G	20	1	0.40	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31					0.00	0.00									32
33	SPARE		20	3			0.00	0.00			3	20		SPARE	34
35									0.00	0.00					36
37					3.70	16.46									38
39	PANEL FITNESS	SEE SINGLE LINE	100	3			3.70	16.46			3	300	SEE SINGLE LINE	PANEL RPC	40
41									3.70	16.46					42
				LOAD PER PHASE	21.86		21.06		22.26						

DIVERSIFIED LOAD · TOTAL = 39.11 kVA · 109 AMPS · A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

GRAPHICS

BUS: 225 AMP · MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	RECEPTS.-THEORY	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	RECEPTS.-THEORY	2
3	RECEPTS.-THEORY	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	RECEPTS.-THEORY	4
5	RECEPTS.-THEORY	2#12 + #12G	20	1					0.39	1.00	1	20	2#12 + #12G	RECEPTS.-THEORY	6
7	RECEPTS.-THEORY	2#12 + #12G	20	1	1.00	1.00					1	20	2#12 + #12G	RECEPTS.-THEORY	8
9	PROJECTOR	2#12 + #12G	20	1			1.00	0.00			1	20		SPARE	10
11	RECEPTS-OFFICE	2#12 + #12G	20	1					1.00	0.00	1	20		SPARE	12
13	RECEPTS-OFFICE	2#12 + #12G	20	1	1.00	0.00					1	20		SPARE	14
15	RECEPTS.-BATHROOM	2#12 + #12G	20	1			1.00	0.00			1	20		SPARE	16
17	EWC	2#12 + #12G	20	1					1.00	1.00	1	20	2#12 + #12G	SP	18
19	SPARE		20	1	0.00	1.00					2	30	3#10 + #10G	UPS	20
21	BMS	2#12 + #12G	20	1			0.50	1.00							22
23	RECEPTS.-RECEPTION	2#12 + #12G	20	1					0.54	0.00	1	20	2#12 + #12G	SP	24
25	SP	2#12 + #12G	20	1	1.00	1.00					2	30	3#10 + #10G	UPS	26
27	SP	2#12 + #12G	20	1			1.00	1.00							28
29	SP	2#12 + #12G	20	1					1.00	0.20	1	20	2#12 + #12G	LIGHTING	30
31	SHRINK WRAP	2#12 + #12G	30	1	2.00	1.20					1	20	2#12 + #12G	OFFICE RECEPTACLE	32
33	COPIER	2#12 + #12G	20	1			1.20	1.00			1	20	2#12 + #12G	ELEC WATER COOLER	34
35	COPIER	2#12 + #12G	20	1					1.20	0.00	1	20		SPARE	36
37	COPIER	2#12 + #12G	20	1	1.20	0.00					1	20		SPARE	38
39	COPIER	2#12 + #12G	20	1			1.20	1.15			1	20	2#12 + #12G	BATHROOM RECEPT	40
41	RECEPTACLES	2#12 + #10G	20	1					1.00	0.80	1	20	2#10 + #10G	RECEPTACLES	42
				LOAD PER PHASE	11.84		11.49		9.13						

TOTAL = SECTION 2 · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

GRAPHICS

BUS: 225 AMP · MAIN: 225 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43					0.10	0.80									44
45	OFF SET PRESS	4#8 + #10G	30	3			0.80	0.80			3	30	4#8 + #10G	CHALLENGER PAPER DRILL	46
47									0.80	0.80					48
49					0.80	0.80									50
51	OFF SET PRESS	4#8 + #10G	30	3			0.80	0.80			3	30	4#8 + #10G	CHALLENGER PAPER DRILL	52
53									2.50	0.20					54
55					2.50	0.50									56
57	SPARE	4#8 + #10G	30	3			2.50	0.50			3	30	4#8 + #10G	BAUM FOLDER	58
59									2.50	0.00					60
61					0.00	1.00					1	20	2#12+G	SHRINK WRAP	62
63	SPARE	4#8 + #10G	30	3			0.00	1.00			1	20	2#12+G	3-M PROCESSOR	64
65									0.00	1.00	1	20	2#12+G	PRINTER	66
67					0.00	1.00					1	20	2#12+G	STITCHER	68
69	3M 1124 PROCESSOR	4#8 + #10G	30	3			0.00	1.00			1	20	2#12+G	COPY	70
71									0.00	1.00	1	20	2#12+G	COPY	72
73	B127 WOMEN	2#12 + G	20	1	0.54	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00							REFER TO		80
81	SPARE		20	1			0.00	0.00			3	100	ONE LINE	PANEL GRAPHICS2	82
83	SPARE		20	1					0.00	0.00			DIAGRAM		84
				LOAD PER PHASE	19.88		19.69		17.93						

DIVERSIFIED LOAD · TOTAL = 34.50 kVA · 96 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL.

2.

208 Y/120V · 65K AIC · 3Ø-4W

RPA

BUS: 400 AMP · MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Dark Room	2#12+G	20	1	1.00	1.40					1	20	2#12+G	Corridor	2
3	Corridor	2#12+G	20	1			1.40	1.20			1	20	2#12+G	LPN Proj.	4
5	Theory Proj.	2#12+G	20	1					1.20	1.20	1	20	2#12+G	LPN Proj.	6
7	Theory	2#12+G	20	1	1.50	0.72					1	20	2#12+G	TLT A124	8
9	Theory	2#12+G	20	1			1.00	0.72			1	20	2#12+G	TLT A125	10
11	Theory	2#12+G	20	1					2.00	0.90	1	20	2#12+G	Storage A123 Rec	12
13	Theory	2#12+G	20	1	0.72	0.72					1	20	2#12+G	Store A128 Rec	14
15	Theory	2#12+G	20	1			1.50	0.72			1	20	2#12+G	Store A128 Rec	16
17	Theory	2#12+G	20	1					1.50	0.90	1	20	2#12+G	Classroom A132 Rec.	18
19	Theory	2#12+G	20	1	1.50	1.08					1	20	2#12+G	Office A131 Rec	20
21	Theory	2#12+G	20	1			1.50	0.72			1	20	2#12+G	Resource A110	22
23	Office A132A Rec	2#12+G	20	1					1.08	1.08	1	20	2#12+G	Office A132A Rec	24
25	Fashion Cord Reel	2#12+G	20	1	0.20	1.08					1	20	2#12+G	Office A132A Rec	26
27	Resource A110	2#12+G	20	1			1.08	1.08			1	20	2#12+G	Resource A110	28
29	Resource A110	2#12+G	20	1					0.72	1.08	1	20	2#12+G	Resource A110	30
31	Resource A110	2#12+G	20	1	1.08	0.80					1	20	2#12+G	Lockers	32
33	Art Rec.	2#12+G	20	1			0.54	0.00			1	20		SPARE	34
35	Office A132A Proj.	2#12+G	20	1					1.00	0.00	1	20		SPARE	36
37	Writing Lab Proj.	2#12+G	20	1	1.20	1.50					1	20	2#12+G	Water Fountain	38
39	Writing Lab	2#12+G	20	1			0.80	1.50			1	20	2#12+G	Writing Lab	40
41	Writing Lab	2#12+G	20	1					1.00	0.80	1	20	2#12+G	Writing Lab	42
				LOAD PER PHASE	14.50		13.76		14.46						

TOTAL = SEE SECTION 2 · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

208 Y/120V · 65K AIC · 3Ø-4W

RPA

BUS: 400 AMP · MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Lang Arts Labs Proj	2#12+G	20	1	1.20	1.20					1	20	2#12+G	Lang Arts Labs Proj	44
45	Lang Arts Labs	2#12+G	20	1			0.80	0.80			1	20	2#12+G	Lang Arts Labs	46
47	Lang Arts Labs	2#12+G	20	1					1.50	0.80	1	20	2#12+G	Lang Arts Labs	48
49	Lang Arts Labs	2#12+G	20	1	1.00	1.00					1	20	2#12+G	Lang Arts Labs	50
51	Lang Arts Labs	2#12+G	20	1			0.80	1.50			1	20	2#12+G	Lang Arts Labs	52
53	Lang Arts Labs Proj	2#12+G	20	1					1.20	0.80	1	20	2#12+G	Storage	54
55	Lang Arts Labs	2#12+G	20	1	0.80	0.80					1	20	2#12+G	Conference	56
57	Lang Arts Labs	2#12+G	20	1			0.80	1.20			1	20	2#12+G	Director's Office	58
59	Lang Arts Labs	2#12+G	20	1					1.50	1.20	1	20	2#12+G	Office	60
61	Lang Arts Labs	2#12+G	20	1	1.00	1.20					1	20	2#12+G	Office	62
63	Theory WM. REC.	2#12+G	20	1			0.72	0.72			1	20	2#12+G	LPN Lab	64
65	Office A132A Rec	2#12+G	20	1					0.54	0.60	1	20	2#12+G	LPN Lab	66
67	Office A132A Rec	2#12+G	20	1	0.72	1.20					1	20	2#12+G	LPN Lab	68
69	Office A132A Rec	2#12+G	20	1			0.72	1.20			1	20	2#12+G	LPN Lab	70
71	Resource Room REF	2#12+G	20	1					1.00	1.20	1	20	2#12+G	Art Proj.	72
73	Art WM. REC.	2#12+G	20	1	0.54	0.72					1	20	2#12+G	Art	74
75	Resource Room MW	2#12+G	20	1			1.00	1.20			1	20	2#12+G	Art	76
77	Resource Room	2#12+G	20	1					1.08	1.50	1	20	2#12+G	Art	78
79	LPN Proj.	2#12+G	20	1	1.20	0.72					1	20	2#12+G	Art WM. REC.	80
81	Basement	2#12+G	20	1			0.50	0.72			1	20	2#12+G	TLT. A113	82
83	Resource Room MW	2#12+G	20	1					1.50	0.10	1	20	2#12+G	ATCS	84
				LOAD PER PHASE	27.80		26.44		28.98						

DIVERSIFIED LOAD · TOTAL = 49.93 kVA · 139 AMPS · A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

PANEL SCHEDULE DIRECTORY

PLUMB	PLUMB	MANU	MANU
LPB	CPU-B	GRAPHIC2	RDPC
GRAPH	GRAPH	RPA	RPA

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538, fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT · PHILIP C. STEINER · No. 22271 · LICENSED · PROFESSIONAL ENGINEER · ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES3

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 · Scale NONE · Drawn By RML · Approved By PCS · Drawing No. E-603

FILE:0451tb REV:02/01/2007 17:15
FILE:E0451ES3 REV: 06/21/12 07:56

LPE1

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING E1- MAIN	2#12+#12G	20	1	3.90	2.20					1	20	2#12+#12G	LIGHTING E1- MAIN	2
3	RELAY PANEL- CNE/1	2#12+#12G	20	1			0.90	1.00			1	20	2#12+#12G	RELAY PANEL- CNE/2	4
5	RELAY PANEL- CNE/3	2#12+#12G	20	1					0.90	1.10	1	20	2#12+#12G	RELAY PANEL- CNE/4	6
7	RELAY PANEL- CSNE	2#12+#12G	20	1	0.00	0.00					1	20	2#12+#12G	RELAY PANEL- CSNE2	8
9	RELAY PANEL- CSNE	2#12+#12G	20	1			0.00	0.00			1	20	2#12+#12G	RELAY PANEL- CSNE	10
11	RELAY PANEL- CSNE	2#12+#12G	20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				6.10		1.90		2.00						

TOTAL = 10.00 kVA — 12 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPE1

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Spare		20	1	0.00	0.40					1	20	2#12+#12G	Projector	2
3	Receptacles	2#12+#12G	20	1			0.36	0.80			1	20	2#12+#12G	Receptacles	4
5	Receptacles	2#12+#12G	20	1					0.36	0.54	1	20	2#12+#12G	TOILET E109	6
7	TOILET E102, E103	2#12+#12G	20	1	1.08	0.80					1	20	2#12+#12G	Receptacles	8
9	Computers	2#12+#12G	20	1			1.08	0.40			1	20	2#12+#12G	Projector	10
11	Projector Screen	2#12+#12G	20	1					0.50	1.08	1	20	2#12+#12G	Receptacles	12
13	Receptacles	2#12+#12G	20	1	1.08	1.08					1	20	2#12+#12G	Receptacles	14
15	Computers	2#12+#12G	20	1			1.20	1.20			1	20	2#12+#12G	Computers	16
17	Receptacles	2#12+#12G	20	1					1.08	1.08	1	20	2#12+#12G	Receptacles	18
19	Office Receptacles	2#12+#12G	20	1	1.20	1.08					1	20	2#12+#12G	Receptacles	20
21	Receptacles	2#12+#12G	20	1			0.80	1.08			1	20	2#12+#12G	Receptacles	22
23	Receptacles	2#12+#12G	20	1					0.60	1.08	1	20	2#12+#12G	Receptacles	24
25	Receptacles	2#12+#12G	20	1	0.72	0.65					1	20	2#12+#12G	Bathroom Receptacles	26
27	Refrigerator	2#12+#12G	20	1			1.50	0.90			1	20	2#12+#12G	Receptacles	28
29	Receptacles	2#12+#12G	20	1					1.08	1.08	1	20	2#12+#12G	Receptacles	30
31	Receptacles	2#12+#12G	20	1	1.08	1.00					1	20	2#12+#12G	Receptacles	32
33	Countertop	2#12+#12G	20	1			0.60	1.00			1	20	2#12+#12G	Projector	34
35	Receptacles	2#12+#12G	20	1					0.72	0.00	1	20		Spare	36
37	Spare		20	1	0.00	0.00					1	20		Spare	38
39	Spare		20	1			0.00	0.00			1	20		Spare	40
41	Spare		20	1					0.00	0.00	1	20		Spare	42
	LOAD PER PHASE				10.17		10.92		9.20						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPE1

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Spare		20	1	0.00	0.00					1	20		Spare	44
45	Spare		20	1			0.00	0.00			1	20		Spare	46
47	Spare		20	1					0.00	0.00	1	20		Spare	48
49	Spare		20	1	0.00	0.90					1	20	2#12+#12G	Office	50
51	Spare		20	1			0.00	0.90			1	20	2#12+#12G	Office	52
53	Spare		20	1					0.00	0.00	1	20		Spare	54
55	Bathroom	2#12+#12G	20	1	0.54	0.00					1	20		Spare	56
57	Spare		20	1			0.00	0.00			1	20		Spare	58
59	Spare		20	1					0.00	0.00	1	20		Spare	60
61	Spare		20	1	0.00	0.00					1	20		Spare	62
63	Spare		20	1			0.00	0.00			1	20		Spare	64
65	Spare		20	1					0.00	0.00	1	20		Spare	66
67	Spare		20	1	0.00	0.00					1	20		Spare	68
69	Spare		20	1			0.00	0.00			1	20		Spare	70
71	Spare		20	1					0.00	0.00	1	20		Spare	72
73	Spare		20	1	0.00	0.00					1	20		Spare	74
75	Receptacles	2#12+#12G	20	1			1.08	0.00			1	20		Spare	76
77	Spare		20	1					0.00	0.00	1	20		Spare	78
79	Microwave	2#12+#12G	20	1	1.50	0.00					1	20		Spare	80
81	Spare		20	1			0.00	0.00			1	20		Spare	82
83	ATCS	2#12+#12G	20	1					0.10	0.00	1	20		Spare	84
	LOAD PER PHASE				13.11		12.90		9.30						

DIVERSIFIED LOAD — TOTAL = 21.19 kVA — 59 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

BRP

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3							0.58	0.58							4
5	DUPLEX SEWAGE PUMP	4#10 + #10G	20	3					0.58	0.58	3	20	4#10 + #10G	DUPLEX SEWAGE PUMP	6
7					0.58	0.58									8
9	SPARE		20	1			0.00	0.90			1	20	2#12+#12G	RECEPTACLES	10
11	ATCS	2#12 + #12G	20	1					0.10	1.00	1	20	2#12+#12G	LIGHTING	12
13	ATCS	2#12 + #12G	20	1	0.10	0.90					1	20	2#12+#12G	RECEPTACLES	14
15	SPARE		20	1			0.00	1.00			1	20	2#12+#12G	LIGHTING	16
17	SPARE		20	1					0.00	1.00	1	20	2#12+#12G	LIGHTING	18
19	SPARE		20	1	0.00	0.90					1	20	2#12+#12G	LIGHTING	20
21	SPARE		20	1			0.00	1.00			1	20	2#12+#12G	LIGHTING	22
23	SPARE		20	1					0.00	0.90	1	20	2#12+#12G	LIGHTING	24
25	SPACE		20	1	0.00	0.00					1			SPACE	26
27	SPACE		20	1			0.00	0.00			1			SPACE	28
29	SPACE		20	1					0.00	0.00	1			SPACE	30
31	SPACE		20	1	0.00	0.00					1			SPACE	32
33	SPACE		20	1			0.00	0.00			1			SPACE	34
35	SPACE		20	1					0.00	0.00	1			SPACE	36
37	SPACE		20	1	0.00	0.00					1			SPACE	38
39	SPACE		20	1			0.00	0.00			1			SPACE	40
41	SPACE		20	1					0.00	0.00	1			SPACE	42
	LOAD PER PHASE				3.05		4.05		4.15						

TOTAL = 11.26 kVA — 31 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPEA

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	2
3	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	4
5	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	6
7	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	8
9	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	10
11	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	12
13	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	14
15	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	16
17	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	18
19	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	20
21	WORK BENCH	2#12 + #12G	20	1			1.00	1.00			1	20	2#12 + #12G	WORK BENCH	22
23	RECEPTACLES	2#12 + #12G	20	1					0.60	1.00	1	20	2#12 + #12G	PEDICURE STATION	24
25	RECEPTACLES	2#12 + #12G	20	1	1.08	1.00					1	20	2#12 + #12G	HAIR DRYER	26
27	HAIR DRYER	2#12 + #12G	20	1			1.00	1.00			1	20	2#12 + #12G	HAIR DRYER	28
29	RECEPTACLES	2#12 + #12G	20	1					0.65	1.00	1	20	2#12 + #12G	HAIR DRYER	30
31	AIR PURFIER	2#12 + #12G	20	1	0.40	0.40					1	20	2#12 + #12G	AIR PURFIER	32
33	TOILET E133	2#12 + #12G	20	1			0.54	0.00			1	20		SPARE	34
35	ATCS	2#12 + #12G	20	1					0.10	0.00	1	20		SPARE	36
37	RECEPTACLES	2#12 + #12G	20	1	1.00	0.80					1	20	2#12 + #12G	Teacher's Desk	38
39	RECEPTACLES	2#12 + #12G	20	1			1.00	0.80			1	20	2#12 + #12G	Teacher's Desk	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				10.44		10.66		7.67						

DIVERSIFIED LOAD — TOTAL = 17.26 kVA — 48 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPEB

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	2
3	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	4
5	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	6
7	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	8
9	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	10
11	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	12
13	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	14
15	COSMETOLOGY STAND	2#12 + #12G	20	1			0.72	0.72			1	20	2#12 + #12G	COSMETOLOGY STAND	16
17	COSMETOLOGY STAND	2#12 + #12G	20	1					0.72	0.72	1	20	2#12 + #12G	COSMETOLOGY STAND	18
19	COSMETOLOGY STAND	2#12 + #12G	20	1	0.72	0.72					1	20	2#12 + #12G	COSMETOLOGY STAND	20
21	HAIR DRYER	2#12 + #12G	20	1			1.00	1.00			1	20	2#12 + #12G	HAIR DRYER	22
23	HAIR DRYER	2#12 + #12G	20	1					1.00	1.00	1	20	2#12 + #12G	HAIR DRYER	24
25	RECEPTACLES	2#12 + #12G	20	1	0.80	0.80					1	20	2#12 + #12G	RECEPTACLES	26
27	WASHING STATION	2#12 + #12G	20	1			0.40	0.40			1	20	2#12 + #12G	WASHING STATION	28
29	AIR PURIFIER	2#12 + #12G	20	1					0.40	0.40	1	20	2#12 + #12G	AIR PURIFIER	30
31	RECEPTACLES	2#12 + #12G	20	1	0.65	1.00					1	20	2#12 + #12G	TRACK LIGHTING	32
33	TRACK LIGHTING	2#12 + #12G	20	1			1.00	0.54			1	20	2#12 + #12G	TOILET E124	34
35	PEDICURE STATION	2#12 + #12G	20	1					1.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	1.50					1	20	2#12 + #12G	WASHER	38
39	SPARE		20	1			0.00	3.00			2	40	3#8 + #10G	DRYER	40
41	SPARE		20	1					0.00	3.00					42
	LOAD PER PHASE				10.51		11.66		11.12						

DIVERISFIED LOAD — TOTAL = 19.97 kVA — 55 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

WOOD

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Office B102	2#12+#12G	20	1	1.60	0.50					1	20	2#12+#12G	Cord Reel	2
3							0.60	0.50			1	20	2#12+#12G	Cord Reel	4
5	Spindel	3#12+#12G	20	3					0.60	0.50	1	20	2#12+#12G	Cord Reel	6
7					0.60	0.50					1	20	2#12+#12G	Cord Reel	8
9	Drill Press	2#12+#12G	20	1			1.00	0.50			1	20	2#12+#12G	Cord Reel	10
11	Drill Press	2#12+#12G	20	1					1.00	0.96					12
13					1.20	0.96					3	20	3#10+#10G	Mortiser	14
15	Duty Joiner	3#10+#10G	20	3			1.20	0.96							16
17									1.20	0.96					18
19	Spare		20	1	0.00	0.96					3	20	3#10+#10G	Bandsaw	20
21							0.00	0.96							22
23	Scroll Saw	2#10+#10G	20	1					0.50	0.96					24
25	Scroll Saw	2#10+#10G	20	1	0.50	0.96					3	20	3#10+#10G	Spindle Shaper	26
27							0.94	0.96							28
29	SHAPER	3#10+#10G	20	3					0.94	0.50	1	20	2#12+#12G	Cord Reel	30
31					0.94	0.20					1	20	2#12+#12G	Goggle Cabinet	32
33							1.56	0.00			1	20		SPARE	34
35	Copy Lathe	3#10+#10G	20	3					1.56	0.00	1	20		SPARE	36
37					1.56	0.00					1	20		SPARE	38
39	Cord Reel	2#12+#12G	20	1			0.50	0.00			1	20		SPARE	40
41	Cord Reel	2#12+#12G	20	1					0.50	0.80	1	20	2#12+#12G	Receptacles	42
	LOAD PER PHASE				10.48		9.68		10.98						

TOTAL = SEE SECTION 2 — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL, SECTION 2, & BUS DUCT.

2.

WOOD

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	SPARE		20	1	0.00	1.20									44
45	SPARE		20	1			0.00	1.20			3	20	4#10+#10G	Panel Saw	46
47	B104 MEN	2#12+#12G	20	1					0.54	1.20					48
49					0.00	2.76									50
51	SPARE		30	3			0.00	2.76			3	30	4#8+#10G	Radial Arm Saw	52
53									0.00	2.76					54
55					0.00	0.00									56
57	SPARE		30	3			0.00	0.00			3	20		SPARE	58
59									0.00	0.00					60
61					0.00	3.80									62
63	SPARE		20	3			0.00	3.80			3	60	4#8+#10G	Door Machine	64
65									0.00	3.80					66
67					1.50	0.00									68
69	Edge Sander	4#8+#10G	30	3			1.50	0.00			3	20		SPARE	70
71									1.50	0.00					72
73	Pedestal Grinder	2#12+#12G	20	1	1.00	0.70					1	20	2#12+#12G	EF-3	74
75	Water Cooler	2#12+#12G	20	1			1.00	0.00			1	20		SPARE	76
77	Repcetacles	2#12+#12G	20	1					1.00	0.80	1	20	2#12+#12G	Receptacles	78
79	SPARE		20	1	0.00	15.00									80
81	SPARE		20	1			0.00	15.00			3	225	SEE SINGLE LINE	BUS DUCT WOOD	82
83	WASH FOUNTAIN	2#12+#12G	20	1					0.18	15.00					84
	LOAD PER PHASE				36.44		34.94		37.76						

DIVERSIFIED LOAD — TOTAL = 65.48 kVA — 182 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL, SECTION 2, & BUS DUCT.

2.

DRAFTING

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Roof Receptacle	2#10+#10G	20	1	0.20	0.00					1	20		SPARE	2
3							0.83	0.00			1	20		SPARE	4
5	MAU-4	4#10 + #10G	20	3					0.83	1.00	1	20	2#12+#12G	COLOR PRINTER	6
7					0.83	1.00					1	20	2#12+#12G	Projector	8
9	Office	2#12+#12G	20	1			0.80	1.00			1	20	2#12+#12G	Drafting #1	10
11	Projector	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	Drafting #1	12
13	Drafting #2	2#12+#12G	20	1	1.00	1.00					1	20	2#12+#12G	Drafting #1	14
15	Drafting #2	2#12+#12G	20	1			1.00	1.00			1	20	2#12+#12G	Drafting #1	16
17	Drafting #2	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	Drafting #1	18
19	Drafting #2	2#12+#12G	20	1	0.80	1.00					1	20	2#12+#12G	Drafting #1	20
21	Drafting #2	2#12+#12G	20	1			1.00	1.00			1	20	2#12+#12G	Drafting #1	22
23	Drafting #2	2#12+#12G	20	1					1.00	0.60	1	20	2#12+#12G	Garage	24
25	Drafting #2	2#12+#12G	20	1	1.50	1.00					1	20	2#12+#12G	Projector	26
27	Drafting #2	2#12+#12G	20	1			1.50	1.50			1	20	2#12+#12G	Computers	28
29	Computers	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	Computers	30
31	Computers	2#12+#12G	20	1	1.00	1.00					1	20	2#12+#12G	Computers	32
33	Computers	2#12+#12G	20	1			1.00	1.00			1	20	2#12+#12G	Computers	34
35	Computers	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	Computers	36
37	Corridor	2#12+#12G	20	1	0.80	0.85					1	20	2#12+#12G	Receptacles	38
39	Roof Receptacle	2#10+#10G	20	1			0.20	1.50			1	20	2#12+#12G	Microwave	40
41	Roof Receptacle	2#10+#10G	20	1					0.20	0.00	1	20		SPARE	42
	LOAD PER PHASE				11.98		13.33		11.63						

TOTAL = 36.94 kVA — 103 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

DRAFTING

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	SPARE		20	1	0.00	0.30					1	20	2#12+#12G	UH-D	44
45	CARD READER	2#12+#12G	20	1			0.20	0.10			1	20	2#12+#12G	DAMPER	46
47	RECEPTACLES	2#12+#12G	20	1					0.80	0.50	1	20	2#12+#12G	PRINTER	48
49	PRINTER	2#12+#12G	20	1	0.50	0.50					1	20	2#12+#12G	PRINTER	50
51	ROOF RECEPTACLES	2#10+G	20	1			0.18	1.20			1	20	2#12+#12G	3D PRINTER	52
53	SPARE		20	1					0.00	0.00	1	20		SPARE	54
55	SPARE		20	1	0.00	0.00					1	20		SPARE	56
57	B129A TOILET	2#12+#12G	20	1			0.54	0.54			1	20	2#12+#12G	B134 TOILET	58
59	B146 TOILET	2#12+#12G	20	1					0.54	0.00	1	20		SPARE	60
61	SPARE		20	1	0.00	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	7.00									80
81	SPARE		20	1			0.00	6.50			1	20	SEE SINGLE LINE	PANEL CPU-B	82
83	SPARE		20	1					0.00	5.60					84
	LOAD PER PHASE				20.28		22.59		19.07						

TOTAL = 37.16 kVA — 103 AMPS — A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPA1

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Women's Bathroom Auto	2#12 + #12G	20	1	0.60	0.00					1	20		SPARE	2
3	LPN Theory	2#12 + #12G	20	1			1.08	0.00			1	20		SPARE	4
5	LPN Theory	2#12 + #12G	20	1					0.90	0.00	1	20		SPARE	6
7	LPN Theory	2#12 + #12G	20	1	1.08	0.00					1	20		SPARE	8
9	Basement	2#12 + #12G	20	1			0.50	0.00			1	20		SPARE	10
11	Outside Receptacles	2#12 + #12G	20	1					0.40	1.00	1	20	2#12 + #12G	Stair A3 CUH-A	12
13	TWO CUH-1	2#12 + #12G	20	1	0.80	1.00					1	20	2#12 + #12G	Stair A3 CUH-A	14
15	LIFT	3#10 + #10G	30	2			1.66	0.72			1	20	2#12 + #12G	Office A132A	16
17									1.66	0.36	1	20	2#12+G	Fashion	18
19	SPARE		20	1	0.00	0.36					1	20	2#12+G	Fashion	20
21	ATCS	2#12 + #12G	20	1			0.10	0.10			1	20	2#12 + #12G	ATCS	22
23	Men's Bathroom Auto	2#12 + #12G	20	1					0.60	0.00	1	20		SPARE	24
25	SP-1 2@ 1/3HP	3#10+10G	20	2	0.90	0.00					1	20		SPARE	26
27							0.90	0.10			1	20	2#12 + #12G	CNA	28
29	SPARE		20	1					0.00	0.10	1	20	2#12 + #12G	CEA	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	1.08	1	20	2#12 + #12G	Office A132A	36
37	Classroom Rec.	2#12 + #12G	20	1	1.08	1.00					1	20	2#12 + #12G	Classroom Proj.	38
39	Classroom Rec.	2#12 + #12G	20	1			0.54	1.00			1	20	2#12 + #12G	Classroom Proj.	40
41	TLT. A136	2#12 + #12G	20	1					0.72	0.36	1	20	2#12 + #12G	Dress A135	42
	LOAD PER PHASE				6.82		6.70		7.18						

DIVERSIFIED LOAD — TOTAL = 12.42 kVA — 34 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

RPCC

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Conf. Room Proj.	2#12+G	20	1	1.20	0.54					1	20	2#12 + #12G	TOILET C123A	2
3	FAA 1	2#12+G	20	1			0.80	1.08			1	20	2#12 + #12G	BATH RM C120E/C120F	4
5	FAA 2	2#12+G	20	1					0.80	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	2.20									26
27	SPARE		20	1			0.00	2.20			3	40	3#8 + #10G	FOLDING PARTITION 5HP	28
29	SPARE		20	1					0.00	2.20					30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				3.94		4.08		3.00						

TOTAL = 6.61 kVA — 18 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.

2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

PANEL SCHEDULE DIRECTORY

LPE1	RPE1	RPE1	BRP
RPEA	RPEB	WOOD	WOOD
DRAFTING	DRAFTING	RPA1	RPCC

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT — PHILIP C. STEINER — No. 22278 — LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES4

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 — Scale NONE — Drawn By RML — Approved By PCS — Drawing No. E-604

FILE:0451tb REV:02/01/2007 17:15
FILE:0451ES4 REV: 06/21/12 07:58

LPK

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3	SPARE		20	1			0.00	0.00			1	20		SPARE	4
5	SPARE		20	1					0.00	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13					0.83	0.00					1	20		SPARE	14
15	MAU-1	3#10 + #10G	20	3			0.83	0.00			1	20		SPARE	16
17									0.83	0.00	1	20		SPARE	18
19					0.83	2.90									20
21	MAU-2	3#10 + #10G	20	3			0.83	2.90			3	125	SEE SINGLE LINE	DP-1	22
23									0.83	2.90					24
25					0.83	0.50									26
27	MAU-3	3#10 + #10G	20	3			0.83	0.50			3	20	3#10 + #10G	KEF-2	28
29									0.83	0.50					30
31					2.70	0.75									32
33	HV-4	3#10 + #10G	20	3			2.70	0.75			3	20	3#10 + #10G	KEF-1, 3	34
35									2.70	0.75					36
37					6.00	3.00									38
39	AC-11	3#6 + #6G	40	3			6.00	3.00			3	20	3#10 + #10G	AC-15	40
41									6.00	3.00					42
	LOAD PER PHASE				18.34		18.34		18.34						

TOTAL = 55.02 kVA 66 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

LPA

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING A1-MAIN	2#12+#12G	20	1	2.00	2.90					1	20	2#12+#12G	LIGHTING A1-MAIN	2
3	LIGHTING A1-UPPER	2#12+#12G	20	1			3.20	3.90			1	20	2#12+#12G	LIGHTING A1-UPPER	4
5	RELAY PANEL- CNA/1	2#12+#12G	20	1					0.70	2.30	1	20	2#12+#12G	RELAY PANEL- CNA/2	6
7	RELAY PANEL- CNA/3	2#12+#12G	20	1	0.90	1.50					1	20	2#12+#12G	RELAY PANEL- CNA/4	8
9	LIGHTING A1- MAIN	2#12+#12G	20	1			1.80	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	67.48									32
33	SPARE		20	1			0.00	68.28			3	400	SEE SINGLE LINE	PANEL LPA 2	34
35	SPARE		20	1					0.00	60.78					36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				74.78		77.18		63.78						

TOTAL = 215.75 kVA 260 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

DPB

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1					11.60	11.60									2
3	CT-1	3#2 + #8G	100	3			11.60	11.60			3	100	3#2 + #8G	CT-2	4
5									11.60	11.60					6
7					2.33	2.33									8
9	CT-1 HEATER	3#10 + #10G	20	3			2.33	2.33			3	20	3#10 + #10G	CT-2 HEATER	10
11									2.33	2.33					12
13					2.30	3.50									14
15	HV-2	3#10 + #10G	20	3			2.30	3.50			3	60	3#6+G-1 1/4"C	CSB	16
17									2.30	3.50					18
19					0.75	1.20									20
21	EF-36	3#10 + #10G	20	3			0.75	1.20			3	20	3#10 + #10G	EF-35	22
23									0.75	1.20					24
25					6.50	0.00									26
27	P-3	3#6 + #10G	40	3			6.50	0.00			3	20		SPARE	28
29									6.50	0.00					30
31					6.50	3.73									32
33	P-4	3#6 + #10G	40	3			6.50	3.73			3	30	3#10 + #10G	P-6	34
35									6.50	3.73					36
37					3.00	0.00									38
39	P-5	3#10 + #10G	30	3			3.00	0.00			3	20		SPARE	40
41									3.00	0.00					42
	LOAD PER PHASE				55.34		55.34		55.34						

TOTAL = 166.02 kVA 200 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

DPB2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1					18.00	0.80									2
3	AC-13	3#2 + #8G	90	3			18.00	0.80			3	20	3#10 + #10G	EF-23	4
5									18.00	0.80					6
7					12.00	0.80									8
9	AIR COMPRESSOR 2@15HP	3#1 + #6G	125	3			12.00	0.80			3	20	3#10 + #10G	EF-24	10
11									12.00	0.80					12
13					0.00	3.60									14
15	SPARE		125	3			0.00	3.60			3	20	3#10 + #10G	HV-3	16
17									0.00	3.60					18
19					7.20	7.20									20
21	PUMP P1	3#6 + #10G	60	3			7.20	7.20			3	60	3#6 + #10G	PUMP P2	22
23									7.20	7.20					24
25					6.00	1.02									26
27	PUMP P7	3#6 + #10G	60	3			6.00	1.02			3	20	3#10 + #10G	EF-33 & EF-34	28
29									6.00	1.02					30
31					0.77	0.83									32
33	EF-44	3#10 + #10G	20	3			0.77	0.83			3	20	3#10 + #10G	MAU-4	34
35									0.77	0.83					36
37					3.60	6.00									38
39	PUMP P9,P10,P11,P12	3#12 + #12G	20	3			3.60	6.00			3	40	3#6 + #10G	PUMP P8 15HP	40
41									3.60	6.00					42
	LOAD PER PHASE				67.82		67.82		67.82						

TOTAL = 203.47 kVA 245 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPK

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Dining Room	2#12+G	20	1	1.20	0.80					1	20	2#12+G	Dining Room 2	2
3	Dining Room	2#12+G	20	1			1.20	1.20			1	20	2#12+G	Dining Room 2	4
5	Restaurant	2#12+G	20	1					1.00	1.20	1	20	2#12+G	Dining Room 2	6
7	Restaurant	2#12+G	20	1	1.20	1.00					1	20	2#12+G	Water Fountain	8
9	Restaurant	2#12+G	20	1			1.20	1.00			1	20	2#12+G	Water Fountain	10
11	Classroom	2#12+G	20	1					1.20	0.60	1	20	2#12+G	Hallway	12
13	Classroom	2#12+G	20	1	1.00	0.80					1	20	2#12+G	Bathrooms	14
15	Classroom	2#12+G	20	1			1.00	0.60			1	20	2#12+G	Cook Office	16
17	Classroom Projector	2#12+G	20	1					1.20	0.60	1	20	2#12+G	Loading Storage	18
19	Kitchen Storage	2#12+G	20	1	0.60	0.00					1	20	2#12+G	Utility Storage	20
21	Hallway	2#12+G	20	1			0.60	0.00			1	20		SPARE	22
23	Dining Room Projector	2#12+G	20	1					1.20	0.00	1	20		SPARE	24
25	Motorized Screen	2#12+G	20	1	0.50	0.20					1	20	2#12+G	Custodian Closet	26
27	Classroom Receptacle	2#12+G	20	1			0.80	0.50			1	20	2#10 + G	TV	28
29	EF-19	2#10 + G	20	1					0.70	0.60	1	20	2#10 + G	ROOF WP RECEP.	30
31	EF-18	2#10 + G	20	1	0.70	0.00					1	20		SPARE	32
33	DUPLEX SUMP PUMP 2@ 1/2HP	3#12+G	20	2			1.20	0.00			1	20		SPARE	34
35									1.20	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	1.20									38
39	SPARE		20	1			0.00	1.20			3	20	3#12 + #12G	AD-1 3@1/2HP	40
41	SPARE		20	1					0.00	1.20					42
	LOAD PER PHASE				9.20		10.50		10.70						

TOTAL = SEE SECTION 2 A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPK

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	WH-3 1/4HP	2#12+#12G	30	1	0.70	1.70					1	30	2#12+#12G	KEF-6,7	44
45	J Box	2#12+#12G	20	1			7.00	1.56			1	30	2#12+#12G	KEF-4,5	46
47	J Box	2#12+#12G	20	1					4.00	1.20	1	20	2#12+#12G	GYM AREA LIGHTS	48
49	J Box	2#12+#12G	20	1	4.00	1.20					1	20	2#12+#12G	GYM AREA LIGHTS	50
51	GYM AREA LIGHTS	2#12+#12G	20	1			1.20	1.20			1	20	2#12+#12G	GYM AREA LIGHTS	52
53	BASEMENT	2#12+#12G	20	1					0.50	0.50	1	20	2#12+#12G	CONCESSION	54
55	SPARE		20	1	0.00	0.30					1	20	2#12+#12G	CUH-C	56
57	SPARE		20	1			0.00	0.00			1	20		SPARE	58
59	RECEP. LOAD. DOC.	2#12+#12G	20	1					0.40	0.00	1	20		SPARE	60
61	ATCS	2#12+#12G	20	1	0.10	0.00					1	20		SPARE	62
63	ATCS	2#12+#12G	20	1			0.10	0.00			1	20		SPARE	64
65	RECEPTACLE WP	2#12+#12G	20	1					0.20	0.30	1	20	2#12+#12G	UH-B	66
67	SPARE		20	1	0.00	0.30					1	20	2#12+#12G	CUH-C	68
69	SPARE		20	1			0.00	0.90			1	20	2#12+#12G	Bathroom	70
71	SPARE		20	1					0.00	0.90	1	20	2#12+#12G	Bathroom	72
73	SPARE		20	1	0.00	0.90					1	20	2#12+#12G	Bathroom	74
75	WH-4 1/4HP	2#12+#12G	20	1			0.70	0.40			1	20	2#12+#12G	Heat Trace	76
77	SPARE		20	1					0.00	0.40	1	20	2#12+#12G	Heat Trace	78
79	LIGHTING	2#12+#12G	20	1	0.50	1.66					2	30	3#10+G	SS-1	80
81	EF-45	2#12+#12G	20	1			0.86	1.66							82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				20.56		26.09		19.10						

DIVERSIFIED LOAD TOTAL = 39.45 kVA 109 AMPS A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPD3

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1					4.00	4.00									2
3	GARAGE 208V OUTLET	4#6+G-1"C	60	3			4.00	4.00			3	60	4#6+G-1"C	GARAGE 208V OUTLET	4
5									4.00	4.00					6
7	RECEPT- ROOF	2#12+G-3/4"C	20	1	0.36	1.50									8
9	RECEPT-GARAGE	2#12+G-3/4"C	20	1			0.36	1.50			3	20	4#12+G-3/4"C	GARAGE 208V OPENER	10
11	RECEPT-GARAGE	2#12+G-3/4"C	20	1					0.36	1.50					12
13	RECEPT-GARAGE	2#12+G-3/4"C	20	1	0.54	1.00									14
15	RECEPT-GARAGE	2#12+G-3/4"C	20	1			0.36	1.00			3	20	4#12+G-3/4"C	GARAGE 208V OPENER	16
17	RECEPT-GARAGE	2#12+G-3/4"C	20	1					0.36	1.00					18
19	RECEPT-OUTDOOR	2#12+G-3/4"C	20	1	0.36	1.00									20
21	RECEPT-OUTDOOR	2#12+G-3/4"C	20	1			0.36	1.00			3	20	4#12+G-3/4"C	GARAGE 208V OPENER	22
23	RECEPT-OUTDOOR	2#12+G-3/4"C	20	1					0.36	1.00					24
25	RECEPT- ATHLETIC ST.	2#12+G-3/4"C	20	1	0.36	1.00									26
27	RECEPT- STORAGE G102	2#12+G-3/4"C	20	1			0.90	1.00			3	20	4#12+G-3/4"C	GARAGE 208V OPENER	28
29	RECEPT-STORAGE G105	2#12+G-3/4"C	20	1					0.72	1.00					30
31	GPS	2#12+G-3/4"C	20	1	0.20	2.50					2	40	2#8+G-3/4"C	EUH-1 (5kW)	32
33	SPARE		20	1			0.00	2.50							34
35	SPARE		20	1					0.00	1.50	2	20	2#12+G-3/4"C	EUH-2&3 (2@1.5kW)	36
37	DROP LIGHT	2#12+G-3/4"C	20	1	0.40	1.50									38
39	DROP LIGHT	2#12+G-3/4"C	20	1			0.40	1.40			1	20	2#12+G-3/4"C	GARAGE UNIT HEATER	40
41	ATCS	2#12+G-3/4"C	20	1					0.10	0.70	1	20	2#12+G-3/4"C	GARAGE UNIT HEATER	42
	LOAD PER PHASE				18.72		18.78		16.60						

TOTAL = SEE SECTION 2 A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. ALTERNATE PANEL
2.

RPD3

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43					8.70	0.50					1	20	2#12+G-3/4"C.	Air Dryer	44
45	DUPLEX AIR COMPRESSOR 10 HP	3#4+G-1-1/4"C.	100	3			8.70	2.70			2	20	2#10+G-3/4"C.	Lift	46
47									8.70	2.70					48
49					1.00	2.70					2	20	2#10+G-3/4"C.	Lift	50
51	OVERHEAD DOOR OPENER	3#12+G-3/4"C.	20	3			1.00	2.70							52
53									1.00	2.70	2	20	2#10+G-3/4"C.	Lift	54
55					1.00	2.70									56
57	OVERHEAD DOOR OPENER	3#12+G-3/4"C.	20	3			1.00	2.70			2	20	2#10+G-3/4"C.	Lift	58
59									1.00	2.70					60
61	WOMEN D107	2#12+G-3/4"C.	20	1	0.54	2.70					2	20	2#10+G-3/4"C.	Lift	62
63	MEN D106	2#12+G-3/4"C.	20	1			0.54	2.70							64
65	Recept.-Exterior	2#12+G-3/4"C.	20	1					0.54	2.70	2	20	2#10+G-3/4"C.	Lift	66
67					8.70	2.70									68
69	DUPLEX AIR COMPRESSOR 10 HP	3#4+G-1-1/4"C.	100	3			8.70	0.50			1	20	2#12+G-3/4"C.	Air Dryer	70
71									8.70	8.00					72
73	SPARE		20	1	0.00	8.00					3	100	3#2+G-1 1/4"C	AIR COMPRESSOR 2@ 10HP	74
75	SPARE		20	1			0.00	8.00							76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				57.96		58.02		55.34						

DIVERSIFIED LOAD TOTAL = 102.79 kVA 285 AMPS A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☑ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPC2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Water Fountain	2#12 + G	20	1	1.00	1.00					1	20	2#12 + G	Kitchen	2
3	Kitchen	2#12 + G	20	1			0.80	0.54			1	20	2#12 + G	Bathrooms	4
5	Office	2#12 + G	20	1					1.00	0.60	1	20	2#12 + G	Storage	6
7	ISS	2#12 + G	20	1	0.80	0.80					1	20	2#12 + G	P.E. Office	8
9	ISS	2#12 + G	20	1			1.50	0.36			1	20	2#12 + G	Hallway	10
11	ISS	2#12 + G	20	1					1.50	0.18	1	20	2#12 + G	Women's Lockers	12
13	ISS Projector	2#12 + G	20	1	1.20	0.60					1	20	2#12 + G	Storage	14
15	ISS	2#12 + G	20	1			1.00	1.00			1	20	2#12 + G	Stage	16
17	Storage/Lift	2#12 + G	20	1					0.60	1.30	1	20	2#12 + G	P.E. Office	18
19	Men's Room	2#12 + G	20	1	1.30	0.60					1	20	2#12 + G	Laundry	20
21	Gym Storage	2#12 + G	20	1			1.20	0.80			1	20	2#12 + G	Hallway	22
23	Gym Storage	2#12 + G	20	1					0.60	0.60	1	20	2#12 + G	Hallway	24
25	Work Room	2#12 + G	20	1	1.40	1.50					1	20	2#12 + G	Maintenance	26
27	Work Room	2#12 + G	20	1			1.20	1.00			1	20	2#12 + G	Maintenance	28
29	Elevators	2#12 + G	20	1					0.40	0.60	1	20	2#12 + G	Bathrooms	30
31	Water Fountain	2#12 + G	20	1	1.00	3.00					2	40	3#8 + #10G	Dryer	32
33	Washer	2#12 + G	20	1			1.00	3.00							34
35	Shot Clocks	2#12 + G	20	1					0.50	0.50	1	20	2#12 + G	Scoreboard	36
37	Lift Existing	2#12 + G	20	1	1.00	1.00					1	20	2#12 + G	Microwave	38
39	Vestibule C147 CUH-A	2#12 + G	20	1			1.00	0.00			1	20	2#12 + G	Vestibule C149 CUH-A	40
41	Security Equipment	2#12 + G	20	1					0.20	1.50	1	20	2#12 + G	Microwave	42
	LOAD PER PHASE				16.20		14.40		10.08						

TOTAL = 40.68 kVA 113 AMPS A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPC2

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	RECEPTACLE	2#12 + G	20	1	0.18	0.54					1	20	2#12 +#12G	TOILET C141A	44
45	TOILET C127A	2#12 + G	20	1			0.54	0.54			1	20	2#12 +#12G	TOILET C139A	46
47	STOR.	2#12 + G	20	1					0.18	0.90	1	20	2#12 +#12G	WOMEN'S SHOWER	48
49	SCOREBOARD	2#12 + G	20	1	0.18	0.36					1	20	2#12 +#12G	RECEPTACLE	50
51	RECEPTACLE	2#12 + G	20	1			0.36	0.54			1	20	2#12 +#12G	C160 MEN	52
53	SPARE		20	1					0.00	0.18	1	20	2#12 +#12G	PASSAGE	54
55	SPARE		20	1	0.00	0.54					1	20	2#12 +#12G	C159 WOMEN	56
57	C160 MEN	2#12 +#12G	20	1			0.54	0.00			1	20		SPARE	58
59	SPARE		20	1					0.00	0.00	1	20		SPARE	60
61	SPARE		20	1	0.00	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		GYM	82
83	SPARE		20	1					0.00	0.00	1	20		EWC	84
	LOAD PER PHASE				1.80		2.52		1.26						

TOTAL = 46.26 kVA 128 AMPS A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPA3

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Office	2#12 + G	20	1	0.60	1.20					1	20	2#12 + G	Reception	2
3	Office	2#12 + G	20	1			1.10	1.20			1	20	2#12 + G	Office	4
5	Office	2#12 + G	20	1					0.80	1.00	1	20	2#12 + G	Office	6
7	Office	2#12 + G	20	1	0.60	0.80					1	20	2#12 + G	Office	8
9	Classroom Proj.	2#10 + 10G	20	1			1.20	0.72			1	20	2#10 + 10G	Classroom	10
11	Classroom	2#10 + 10G	20	1					0.80	1.50	1	20	2#10 + 10G	Classroom	12
13	Classroom	2#10 + 10G	20	1	1.50	1.50					1	20	2#10 + 10G	Lounge	14
15	Lounge	2#10 + 10G	20	1			1.00	0.80			1	20	2#10 + 10G	Lounge	16
17	Lounge	2#10 + 10G	20	1					1.00	1.20	1	20	2#10 + 10G	Classroom Proj.	18
19	Classroom	2#10 + 10G	20	1	1.00	1.08					1	20	2#10 + 10G	Classroom	20
21	Classroom	2#10 + 10G	20	1			1.08	1.10			1	20	2#10 + 10G	Classroom	22
23	Classroom Proj.	2#10 + 10G	20	1					1.20	0.80	1	20	2#10 + 10G	Classroom	24
25	Classroom	2#10 + 10G	20	1	0.90	1.08					1	20	2#10 + 10G	Classroom	26
27	Classroom	2#10 + 10G	20	1			1.08	1.20			1	20	2#8 + #8G	Classroom Proj.	28
29	Classroom	2#8 + #8G	20	1					0.72	1.08	1	20	2#8 + #8G	Classroom	30
31	Classroom	2#8 + #8G	20	1	0.60	0.90					1	20	2#8 + #8G	Classroom	32
33	Classroom Proj.	2#8 + #8G	20	1			1.20	0.80			1	20	2#8 + #8G	Classroom	34
35	Classroom	2#8 + #8G	20	1					0.90	1.50	1	20	2#8 + #8G	Classroom	36
37	Classroom	2#8 + #8G	20	1	1.50	1.20					1	20	2#8 + #8G	Classroom Proj.	38
39	Classroom	2#8 + #8G	20	1			0.80	1.50			1	20	2#8 + #8G	Classroom	40
41	Classroom	2#8 + #8G	20	1					1.50	0.90	1	20	2#8 + #8G	Classroom	42
	LOAD PER PHASE				14.46		14.78		14.90						

TOTAL = SEE SECTION 2 A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

RPA3

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: MAIN LUGS ONLY

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	Store Room	2#8 + #8G	20	1	0.80	0.40					1	20	2#8 + #8G	Bathrooms	44
45	Water Fountain	2#8 + #8G	20	1			1.00	0.00			1	20		Spare	46
47	Corridor Receptacles	2#10 + #10G	20	1					0.80	0.00	1	20		Spare	48
49	Copier	2#10 + #10G	20	1	1.50	0.80					1	20	2#10 + #10G	Office	50
51	ROOF WP RECEP.	2#10 + #10G	20	1			0.40	0.53			1	20	2#10 + #10G	EF-21	52
53	ROOF WP RECEP.	2#10 + #10G	20	1					0.20	1.28	1	30	2#10 + #10G	EF-8 + EF 30	54
55	EF-11 + EF-12	2#10 + #10G	20	1	1.06						1	20		Spare	56
57	SPARE		20	1			0.00	1.66			2	30	2#8 + #10G	SS-1	58
59	SPARE		20	1					0.00	1.66					60
61	SPARE		20	1	0.00	1.50					1	20	2#10 + #10G	Microwave	62
63	Lounge	2#12 + #12G	20	1			0.00	0.10			1	20	2#12 + #12G	ATCS	64
65	EF-38+EF-53	2#10 + #10G	20	1					1.02	0.60	1	20	2#12 + #12G	Men's Bathroom Auto	66
67	ROOF WP RECEP.	2#10 + #10G	20	1	0.20	0.60					1	20	2#12 + #12G	Women's Bathroom Auto	68
69	ROOF WP RECEP.	2#10 + #10G	20	1			0.20	2.18			2	30	2#8 + #10G	SS-1	70
71	ROOF WP RECEP.	2#10 + #10G	20	1					0.20	2.18					72
73	Planning A229 MW	2#10 + #10G	20	1	1.00	0.11					1	20	2#12 + #12G	TF-1, TF-2 (55W)	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				19.57		16.08		19.45						

TOTAL = 55.09 kVA 153 AMPS A = AFI BREAKER

NOTES: ☑ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

PANEL SCHEDULE DIRECTORY

LPK	LPA	DPB	DPB2
RPK	RPK	RPD3	RPD3
RPC2	RPC2	RPA3	RPA3

CMR BID DOCUMENTS

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Professional Seal & Signature
STATE OF CONNECTICUT PHILIP C. STEINER No. 22277 LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES5

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale NONE
Drawn By RML
Approved By PCS
Drawing No. E-605

FILE:0451tb REV:02/01/2007 17:15
FILE:0451ES5 REV: 06/21/12 07:59

FITNESS

208 Y/120V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Computers	2#12 + #12G	20	1	0.50	0.50					1	20	2#12 + #12G	Plasma TV	2
3	Exercise Equipment	2#12 + #12G	20	1			0.60	0.60			1	20	2#12 + #12G	Exercise Equipment	4
5	Exercise Equipment	2#12 + #12G	20	1					0.60	0.60	1	20	2#12 + #12G	Exercise Equipment	6
7	Exercise Equipment	2#12 + #12G	20	1	0.60	0.60					1	20	2#12 + #12G	Exercise Equipment	8
9	Exercise Equipment	2#12 + #12G	20	1			0.60	0.50			1	20	2#12 + #12G	Computers	10
11	Exercise Equipment	2#12 + #12G	20	1					0.60	0.60	1	20	2#12 + #12G	Exercise Equipment	12
13	Exercise Equipment	2#12 + #12G	20	1	0.60	0.60					1	20	2#12 + #12G	Exercise Equipment	14
15	Exercise Equipment	2#12 + #12G	20	1			0.60	0.60			1	20	2#12 + #12G	Exercise Equipment	16
17	Exercise Equipment	2#12 + #12G	20	1					0.60	0.60	1	20	2#12 + #12G	Exercise Equipment	18
19	Exercise Equipment	2#12 + #12G	20	1	0.60	0.60					1	20	2#12 + #12G	Exercise Equipment	20
21	Exercise Equipment	2#12 + #12G	20	1			0.60	0.60			1	20	2#12 + #12G	Exercise Equipment	22
23	Exercise Equipment	2#12 + #12G	20	1					0.60	0.60	1	20	2#12 + #12G	Exercise Equipment	24
25	Exercise Equipment	2#12 + #12G	20	1	0.60	0.60					1	20	2#12 + #12G	Exercise Equipment	26
27	Exercise Equipment	2#12 + #12G	20	1			0.60	0.50			1	20	2#12 + #12G	Plasma TV	28
29	SPARE		20	1					0.00	0.20	1	20	2#12 + #12G	Security Equipment	30
31	SPARE		20	1	0.00	0.72					1	20	2#12 + #12G	Bathroom	32
33	SPARE		20	1			0.00	1.08			1	20	2#12 + #12G	Bathroom	34
35	ATCS	2#12 + #12G	20	1					0.10	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				6.52		6.88		5.10						

DIVERSIFIED LOAD — TOTAL = 11.10 kVA — 31 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELS

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 400 AMP — MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	INVERTER-B	SEE SINGLE LINE	70	3	2.33	15.00	2.33	15.80	2.33	12.80	3	225	SEE SINGLE LINE	PANEL ELK	2
3	SPARE		20	3	0.00	6.40	0.00	4.40	0.00	4.80	3	125	SEE SINGLE LINE	PANEL ELE	4
5	PANEL ELA	SEE SINGLE LINE	125	3	5.30	9.90	3.70	9.80	2.50	3.70	3	125	SEE SINGLE LINE	PANEL ELD	6
7	PANEL ELA2	SEE SINGLE LINE	125	3	7.70	0.00	4.90	0.00	5.90	0.00	3	20		SPARE	8
9	PANEL ELB	SEE SINGLE LINE	125	3	10.20	0.00	10.70	0.00	6.50	0.00	3	20		SPARE	10
11	SPARE		175	3	0.00	0.00	0.00	0.00	0.00	0.00	3			SPACE	12
13	SPARE		20	3	0.00	0.00	0.00	0.00	0.00	0.00	3			SPACE	14
	LOAD PER PHASE				56.83		51.63		38.53						

TOTAL = 147.00 kVA — 177 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

INV-C

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 100 AMP — MAIN: 70 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	CSEC2	2#10+G-3/4"C	20	1	1.00	1.00							2#10+G-3/4"C	CSEC2	2
3	CSEC	2#10+G-3/4"C	20	1			1.00	0.00			3	60		SPARE	4
5	GYMNASIUM	2#12+#G-3/4"C	20	1					0.00	0.00				SPARE	6
7	GYMNASIUM	2#12+#G-3/4"C	20	1	0.00	0.00					1	20		SPARE	8
9	GYMNASIUM	2#12+#G-3/4"C	20	1			0.00	0.00			1	20		SPARE	10
11	GYMNASIUM	2#12+#G-3/4"C	20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				2.00		1.00		0.00						

TOTAL = 3.00 kVA — 4 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

INV-B

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 100 AMP — MAIN: 70 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	PLUMBING	2#12+#12G-3/4"C	20	1	0.00	3.00							2#10+10G-3/4"C	CSEB	2
3	PLUMBING	2#12+#12G-3/4"C	20	1			0.00	2.00			3	60	2#10+10G-3/4"C	CSEB	4
5	ELECTRICAL	2#12+#12G-3/4"C	20	1					0.00	2.00	1		2#10+10G-3/4"C	CSEB	6
7	ELECTRICAL	2#12+#12G-3/4"C	20	1	0.00	0.00					1	20	2#10+10G-3/4"C	CSEB	8
9	GRAPHICS	2#12+#12G-3/4"C	20	1			0.00	0.00			1	20	2#10+10G-3/4"C	CSEB	10
11	GRAPHICS	2#12+#12G-3/4"C	20	1					0.00	0.00	1	20	2#10+10G-3/4"C	CSEB	12
13	MANUFACTURING	2#12+#12G-3/4"C	20	1	0.00	0.00					1	20	2#10+10G-3/4"C	CSEB	14
15	MANUFACTURING	2#12+#12G-3/4"C	20	1			0.00	0.00			1	20		SPARE	16
17	CARPENTRY	2#12+#12G-3/4"C	20	1					0.00	0.00	1	20		SPARE	18
19	CARPENTRY	2#12+#12G-3/4"C	20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				3.00		2.00		2.00						

TOTAL = 7.00 kVA — 8 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELK

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3	SPARE		20	1			0.00	0.00			1	20		SPARE	4
5	SPARE		20	1					0.00	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37, 39, 41	EDP-1	SEE SINGLE LINE	125	3	2.90	11.60	2.90	12.90	2.90	9.90	3	125	SEE SINGLE LINE	PANEL ELC	38, 40, 42
	LOAD PER PHASE				14.50		15.80		12.80						

TOTAL = 43.10 kVA — 52 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELC

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EMER. LGHT. C4- MAIN	2#12+#12G	20	1	0.60	1.50					1	20	2#12+#12G	EMER. LGHT. C4- MAIN	2
3	EMER. LGHT. C4- MAIN	2#12+#12G	20	1			1.20	0.00			1	20	-	SPARE	4
5	EMER. LGHT. C4- MAIN	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	EMER. LGHT. C4- MAIN	6
7	EMER. LGHT. C4- MAIN	2#12+#12G	20	1	0.60	2.00					1	20	2#12+#12G	EMER. LGHT. C1- MAIN	8
9	EMER. LGHT. C1- MAIN	2#12+#12G	20	1			1.20	2.00			1	20	2#12+#12G	EMER. LGHT. C1- MAIN	10
11	EMER. LGHT. C1- MAIN	2#12+#12G	20	1					1.50	2.00	1	20	2#12+#12G	EMER. LGHT. C1- MAIN	12
13	EM. LGHT. C2+C3- MAIN	2#12+#12G	20	1	2.00	1.30					1	20	2#12+#12G	EM. LGHT. C2+C3- MAIN	14
15	EM. LGHT. C2+C3- MAIN	2#12+#12G	20	1			2.50	2.50			1	20	2#12+#12G	EM. LGHT. C2+C3- MAIN	16
17	RELAY PANEL- CEC/1	2#12+#12G	20	1					1.00	1.00	1	20	2#12+#12G	RELAY PANEL- CEC/2	18
19	RELAY PANEL- CEC2/1	2#12+#12G	20	1	0.60	0.50					1	20	2#12+#12G	RELAY PANEL- CEC2/2	20
21	RELAY PANEL- CEC2/3	2#12+#12G	20	1			0.50	1.00			1	20	2#12+#12G	RELAY PANEL- CEC2/4	22
23	RELAY PANEL- CEL/1	2#12+#12G	20	1					2.00	0.40	1	20	2#12+#12G	RELAY PANEL- CEL/2	24
25	RELAY PANEL- CEL/3	2#12+#12G	20	1	1.50	1.00					1	20	2#12+#12G	RELAY PANEL - CEL/4	26
27	LIGHTING C1-TUNNEL	2#12+#12G	20	1			0.50	1.50			3	60	4#6+G - 1 1/4"C	INV-B	28
29	SPARE		20	1					0.00	0.00				SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				11.60		12.90		9.90						

TOTAL = 34.40 kVA — 41 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELE

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING E1- MAIN	2#12+#12G	20	1	2.00	3.00					1	20	2#12+#12G	LIGHTING E1- MAIN	2
3	LIGHTING E1- STAIRS	2#12+#12G	20	1			0.40	2.00			1	20	2#12+#12G	LIGHTING E1- UPPER	4
5	LIGHTING E1- UPPER	2#12+#12G	20	1					1.50	2.00	1	20	2#12+#12G	LIGHTING E1- UPPER	6
7	LIGHTING E1- STAIRS	2#12+#12G	20	1	0.40	1.00					1	20	2#12+#12G	RELAY PANEL- CEE/1	8
9	RELAY PANEL- CEE/2	2#12+#12G	20	1			1.10	0.90			1	20	2#12+#12G	RELAY PANEL- CEE/3	10
11	RELAY PANEL- CEE/4	2#12+#12G	20	1					0.90	0.40	1	20	2#12+#12G	LIGHTING E1- STAIRS	12
13	RELAY PANEL- CSEE	2#12+#12G	20	1	0.00	0.00					1	20		SPARE	14
15	RELAY PANEL- CSEE	2#12+#12G	20	1			0.00	0.00			1	20		SPARE	16
17	RELAY PANEL- CSEE	2#12+#12G	20	1					0.00	0.00	1	20		SPARE	18
19	RELAY PANEL- CSEE2	2#12+#12G	20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				6.40		4.40		4.80						

TOTAL = 15.60 kVA — 19 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELA

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EMER. LGHT. A1- MAIN	2#12+#12G	20	1	1.20	1.50					1	20	2#12+#12G	EMER. LGHT. A1- UPPER	2
3	EMER. LGHT. A1- UPPER	2#12+#12G	20	1			1.20	0.50			1	20	2#12+#12G	EMER. LGHT. A1- STAIRS	4
5	EMER. LGHT. A1- STAIRS	2#12+#12G	20	1					0.50	1.00	1	20	2#12+#12G	RELAY PANEL- CEA/1	6
7	RELAY PANEL- CEA/2	2#12+#12G	20	1	1.80	0.80					1	20	2#12+#12G	RELAY PANEL- CEA/4	8
9	RELAY PANEL- CEA/4	2#12+#12G	20	1			1.00	1.00			1	20	2#12+#12G	EMER. LGHT. A2	10
11	EXTERIOR EXIT SIGNS	2#12+#12G	20	1					0.10	0.90	1	20	2#12+#12G	EMER. LGHT. A1	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				5.30		3.70		2.50						

TOTAL = 11.50 kVA — 14 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELD

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING D1- MAIN	2#12+#12G	20	1	1.80	1.80					1	20	2#12+#12G	LIGHTING D1- MAIN	2
3	LIGHTING D1- MAIN	2#12+#12G	20	1			1.50	1.80			1	20	2#12+#12G	RELAY PANEL- CED/1	4
5	RELAY PANEL- CED/2	2#12+#12G	20	1					1.00	0.10	1	20	2#12+#12G	EXTERIOR EXIT SIGN	6
7	LIGHTING D3	2#12+#12G	20	1	0.50	0.10					1	20	2#12+#12G	EXTERIOR EXIT SIGN	8
9	SPARE		20	1			0.00	0.50			1	20	2#12+#12G	E-HOUSE POWER	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37					5.70	0.00					1	20		SPARE	38
39	PANEL ELD2		125	3			6.00	0.00			1	20		SPARE	40
41									1.60	1.00	1	20	2#10 + #10G	LIGHTING ALTERNATE	42
	LOAD PER PHASE				9.90		9.80		3.70						

TOTAL = 23.40 kVA — 28 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELA2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EMER. LGHT. A2- MAIN	2#12+#12G	20	1	1.20	2.00					1	20	2#12+#12G	EMER. LGHT. A2- MAIN	2
3	EMER. LGHT. A2- MAIN	2#12+#12G	20	1			1.00	0.40			1	20	2#12+#12G	EMER. LGHT. A2- STAIRS	4
5	EMER. LGHT. A2- STAIRS	2#12+#12G	20	1					0.40	2.00	1	20	2#12+#12G	EMER. LGHT. A2- UPPER	6
7	EMER. LGHT. A2- UPPER	2#12+#12G	20	1	1.00	0.00					1	20		SPARE	8
9							3.50	0.00			1	20		SPARE	10
11	PANEL CSEE	4#6+#8G -1/4"C	60	3					3.50	0.00	1	20		SPARE	12
13					3.50	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				7.70		4.90		5.90						

TOTAL = 18.50 kVA — 22 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELD2

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 125 AMP — MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	LIGHTING D2- MAIN	2#12+#12G	20	1	3.60	1.70					1	20	2#12+#12G	LIGHTING D2- MAIN	2
3	LIGHTING D2- MAIN	2#12+#12G	20	1			3.60	2.40			1	20	2#12+#12G	LIGHTING D1- UPPER	4
5	LIGHTING D1- UPPER	2#12+#12G	20	1					1.20	0.40	1	20	2#12+#12G	LIGHTING D1- STAIRS	6
7	LIGHTING D1- STAIRS	2#12+#12G	20	1	0.40	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				5.70		6.00		1.60						

TOTAL = 13.30 kVA — 16 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELB

480 Y/277V — 65K AIC — 3Ø-4W — BUS: 225 AMP — MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EMER. LGHT. B1- MAIN	2#12 + 12G	20	1	2.20	1.50					1	20	2#12 + #12G	EMER. LGHT. B1- MAIN	2
3	EMER. LGHT. B1- MAIN	2#12 + 12G	20	1			2.80	2.10			1	20	2#12 + #12G	EMER. LGHT. B1- MAIN	4
5	EMER. LGHT. B1- MAIN	2#10 + 12G	20	1					2.50	2.50	1	20	2#12 + #12G	EMER. LGHT. B2- MAIN	6
7	EMER. LGHT. B2- MAIN	2#12 + 12G	20	1	1.80	2.50					1	20	2#12 + #12G	EMER. LGHT. B2- MAIN	8
9	EMER. LGHT. B2- MAIN	2#12 + 12G	20	1			2.40	0.90			1	20	2#12 + #12G	RELAY PANEL- CEB/1	10
11	RELAY PANEL- CEB/2	2#12 + 12G	20	1					1.10	0.10	1	20	2#12 + #12G	EXTERIOR EXIT SIGN	12
13	EMER. LTG B1 LOWER	2#12 + 12G	20	1	1.20	0.00					1	20		SPARE	14
15	EMER. LTG B1 LOWER	2#12 + 12G	20	1			1.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	RELAY PANEL- CSEB	2#10+#10G	20	1	0.00	1.00					1	20		SPARE	26
27	RELAY PANEL- CSEB	2#10+#10G	20	1			0.00	1.50			1	20	2#12+#12G	EMER. LGHT. B2- MAIN	28
29	SPARE		20	1					0.00	0.30	1	20	2#12+#12G	EMER. LGHT. B2- STAIR	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				10.20		10.70		6.50						

TOTAL = 27.40 kVA — 33 AMPS — A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

PANEL SCHEDULE DIRECTORY

FITNESS	ELS	INVERTER	INVERTER2
ELK	ELC	ELE	ELA
ELD	ELA2	ELD2	ELB

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

STATE OF CONNECTICUT PHILIP C. STEINER No. 22271 LICENSED PROFESSIONAL ENGINEER

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES6

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 — Scale NONE — Drawn By RML — Approved By PCS — Drawing No. E-606

FILE:0451tb REV:02/01/2007 17:15
FILE:E0451ES6 REV: 06/20/12 17:03

EPS

480 Y/277V | 65K AIC | 3Ø-4W | BUS: 800 AMP | MAIN: 600 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	ELEVATOR	SEE SINGLE LINE	200	3	38.00	18.95					3	125	SEE SINGLE LINE	PANEL EPK	2
							38.00	20.10							
									38.00	18.27					
3	PANEL EPC	SEE SINGLE LINE	50	3	5.70	7.00					3	70	SEE SINGLE LINE	PANEL IT	4
							4.68	7.90							
									3.80	5.70					
5	PANEL EPD2	SEE SINGLE LINE	50	3	6.00	1.26					3	50	SEE SINGLE LINE	PANEL EPA2	6
							6.79	2.58							
									6.79	2.40					
7	PANEL ELEV	SEE SINGLE LINE	50	3	1.36	8.45					3	125	SEE SINGLE LINE	PANEL EPB	8
							0.68	8.32							
									0.18	7.41					
9	SPARE		20	3	0.00	0.00					3	30		SPARE	10
							0.00	0.00							
									0.00	0.00					
11	SPARE		20	3	0.00	0.00					3	30		SPARE	12
							0.00	0.00							
									0.00	0.00					
13	SPARE		30	3	0.00	0.00					3	50		SPARE	14
							0.00	0.00							
									0.00	0.00					
	LOAD PER PHASE				86.72		89.06		82.56						

TOTAL = 258.33 kVA 311 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPK

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	GYM AREA LIGHTS	2#12 + #12G	20	1	1.20	1.20					1	20	2#12 + #12G	GYM AREA LIGHTS	2
3	GYM AREA LIGHTS	2#12 + #12G	20	1			1.20	1.20			1	20	2#12 + #12G	GYM AREA LIGHTS	4
5	Refrigerator	2#12 + #12G	20	1					1.02	0.38	2	20	3#10 + #10G	Refrigerator	6
7	FIRE PROTECTION SYS	2#12 + #12G	20	1	0.60	0.38									8
9	Refrig/Freezer	2#12 + #12G	20	1			1.58	1.04			2	30	3#10 + #10G	FREEZER	10
11	Refrigerator	2#12 + #12G	20	1					1.02	1.04					12
13	Refrigerator	2#12 + #12G	20	1	1.02	1.41					2	30	3#10 + #10G	Refrigerator	14
15	Refrigerator	2#10 + #10G	20	1			1.20	1.41							16
17	Refrigerator	2#10 + #10G	20	1					1.58	0.83	2	20	3#10 + #10G	Refrigerator	18
19	Chiller/Freezer	2#12 + #12G	20	1	1.20	0.83									20
21	Refrigerator	2#12 + #12G	20	1			1.28	0.87			2	20	3#10 + #10G	Walk-in Freezer	22
23	Refrigerator	3#10+#10G	20	2					0.83	0.87					24
25					0.83	1.44					2	30	3#10 + #10G	Refrigerator	26
27	Refrigerator	2#12 + #12G	20	1			1.02	1.44							28
29	Freezer	2#12 + #12G	20	1					1.09	0.60	1	20	2#12 + #12G	Fire Protection System	30
31	Fire Protection System	2#12 + #12G	20	1	0.60	1.80					1	20	2#12 + #12G	Chiller/Freezer	32
33	Walk In Cooler	2#12 + #12G	20	1			0.48	0.86			2	30	3#10 + #10G	Ice Maker	34
35	Walk In Freezer	2#10+#10G	20	2					1.04	0.86					36
37					1.04	0.60					1	20	2#12 + #12G	Fire Protection System	38
39	Refrigerator	2#10+#10G	20	2			1.44	0.78			1	20	2#12 + #12G	Ice Maker	40
41									1.44	0.69	1	20	2#12 + #12G	Refrigerator	42
	LOAD PER PHASE				14.15		15.80		13.29						

TOTAL = SECTION 2 A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPK

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	FRZR/FRIDGE EM LTG	2#12+#12G	20	1	0.90	0.60					1	20	2#12+#12G	FRZR/FRIDGE EM LTG	44
45	FRZR/FRIDGE EM LTG	2#12+#12G	20	1			1.00	1.80			1	20	2#12+#12G	HEAT TRACE	46
47	GENERATOR RECEP	2#12+#12G	20	1					0.18	1.80	1	20	2#12+#12G	HEAT TRACE	48
49	BLOCK HEATER	2#12+#12G	20	1	1.50	1.80					1	20	2#12+#12G	HEAT TRACE	50
51	BLOCK HEATER	2#12+#12G	20	1			1.50	0.00			1	20	2#12+#12G	HEAT TRACE	52
53	OIL PAN HEATER	2#12+#12G	20	1					1.50	1.50	1	20	2#12+#12G	BATTERY HEATER	54
55	SPARE		20	1	0.00	0.00					1	20		SPARE	56
57	SPARE		20	1			0.00	0.00			1	20		SPARE	58
59	SPARE		20	1					0.00	0.00	1	20		SPARE	60
61	SPARE		20	1	0.00	0.00					1	20		SPARE	62
63	SPARE		20	1			0.00	0.00			1	20		SPARE	64
65	SPARE		20	1					0.00	0.00	1	20		SPARE	66
67	SPARE		20	1	0.00	0.00					1	20		SPARE	68
69	SPARE		20	1			0.00	0.00			1	20		SPARE	70
71	SPARE		20	1					0.00	0.00	1	20		SPARE	72
73	SPARE		20	1	0.00	0.00					1	20		SPARE	74
75	SPARE		20	1			0.00	0.00			1	20		SPARE	76
77	SPARE		20	1					0.00	0.00	1	20		SPARE	78
79	SPARE		20	1	0.00	0.00					1	20		SPARE	80
81	SPARE		20	1			0.00	0.00			1	20		SPARE	82
83	SPARE		20	1					0.00	0.00	1	20		SPARE	84
	LOAD PER PHASE				18.95		20.10		18.27						

TOTAL = 57.32 kVA 159 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

IT

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 175 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	CONVIENCE RECEPT	2#12 + #12G	20	1	0.80	1.50					2	30	2#10+G	RECP - TELECOM	2
3	RECP - TELCOM	2#12 + #12G	20	1			1.20	1.50							4
5	RECP - TELCOM	2#12 + #12G	20	1					1.20	1.50	2	30	2#10+G	RECP - TELECOM	6
7	RECP - TELCOM	2#12 + #12G	20	1	1.20	1.50									8
9	RECP - TELCOM	2#12 + #12G	20	1			1.20	1.50			2	30	2#10+G	RECP - TELECOM	10
11	SS2 COND. PUMP	2#12 + #12G	20	1					0.50	1.50					12
13	SPARE		20	1	0.00	2.00					2	30	2#10+G	RECP - TELECOM	14
15	SPARE		20	1			0.00	1.50							16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	1.00			2	30	2#10+G	LIFT	22
23	SPARE		20	1					0.00	1.00					24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				7.00		7.90		5.70						

TOTAL = 20.60 kVA 57 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPD

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 125 AMP | MAIN: 70 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SEC. EQUIPMENT	2#12+#12G	20	1	1.00	0.00					1	20		SPARE	2
3	INT. SEC. CAMERA	2#12+#12G	20	1			0.20	0.00			1	20		SPARE	4
5	INT. SEC. CAMERA	2#12+#12G	20	1					0.20	0.00	1	20		SPARE	6
7	SPARE		20	1	0.00	0.00					1	20		SPARE	8
9	SS-1	2#8+G	30	2			2.18	0.00			1	20		SPARE	10
11									2.18	0.00	1	20		SPARE	12
13	EXT. SEC. CAMERA	2#10+#10G	30	1	1.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00		1	20		SPARE	42
	LOAD PER PHASE				2.00		2.38		2.38						

TOTAL = 6.77 kVA 19 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPA2

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	SPARE		20	1	0.00	0.00					1	20		SPARE	2
3	SPARE		20	1			0.00	1.00			1	30	2#10+#10G	EXT. SEC. CAMERA	4
5	INT SEC. CAMERA	2#12+#12G	20	1					0.40	1.00	1	30	2#10+#10G	EXT. SEC. CAMERA	6
7	INT SEC. CAMERA	2#12+#12G	20	1	0.40	0.00					1	30		SPARE	8
9	INT SEC. CAMERA	2#12+#12G	20	1			0.40	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SS 2 COND. PUMP	2#12+#12G	20	1			0.50	0.18			1	20	2#12+G-3/4"C	SECURITY RECEP	22
23	MOTION DETECTOR	2#12+#12G	20	1					0.50	0.50	1	20	2#12+G-3/4"C	CAMERA POWER	24
25	SECURITY RECEP	2#12+#12G	20	1	0.36	0.50					1	20	2#12+G-3/4"C	SECURITY PLUG STRIP	26
27	SECURITY PLUG STRIP	2#12+G-3/4"C	20	1			0.50	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				1.26		2.58		2.40						

TOTAL = 6.24 kVA 17 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELEV

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	RECEPTACLES	2#12+G	20	1	0.36	0.50					1	20	2#12+G	PIT LIGHT	2
3	RECEPTACLES	2#12+G	20	1			0.18	0.50			1	20	2#12+G	COND. PUMP	4
5	RECEPTACLES	2#12+G	20	1					0.18	0.00	1	20		SPARE	6
7	CAB LIGHT	2#12+G	20	1	0.50	0.00					1	20		SPARE	8
9	SPARE		20	1			0.00	0.00			1	20		SPARE	10
11	SPARE		20	1					0.00	0.00	1	20		SPARE	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPACE			1			0.00	0.00			1			SPACE	22
23	SPACE			1					0.00	0.00	1			SPACE	24
25	SPACE			1	0.00	0.00					1			SPACE	26
27	SPACE			1			0.00	0.00			1			SPACE	28
29	SPACE			1					0.00	0.00	1			SPACE	30
31	SPACE			1	0.00	0.00					1			SPACE	32
33	SPACE			1			0.00	0.00			1			SPACE	34
35	SPACE			1					0.00	0.00	1			SPACE	36
37	SPACE			1	0.00	0.00					1			SPACE	38
39	SPACE			1			0.00	0.00			1			SPACE	40
41	SPACE			1					0.00	0.00	1			SPACE	42
	LOAD PER PHASE				1.36		0.68		0.18						

TOTAL = 2.22 kVA 6 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPD2

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 125 AMP | MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	IDF Room	2#12+#12G	30	2	0.75	1.00					1	20	2#12+#12G	IDF Room	2
3							0.75	1.00			1	20	2#12+#12G	IDF Room	4
5	IDF Room	2#12+#12G	30	2					0.75	1.00	1	20	2#12+#12G	IDF Room	6
7					0.75	1.50					1	20	2#12+#12G	IDF Room	8
9	SS-1	2#8+#8G	30	2			1.66	1.00			1	30	2#10+#10G	EXT. SEC. CAMERA	10
11									1.66	1.00	1	30	2#10+#10G	EXT. SEC. CAMERA	12
13	SPARE		20	1	0.00	0.00					1	20		SPARE	14
15	SPARE		20	1			0.00	0.00			1	20		SPARE	16
17	SPARE		20	1					0.00	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	2.00					3	70	SEE SINGLE LINE	EPD	38
39	SPARE		20	1			0.00	2.38							40
41	SPARE		20	1					0.00	2.38					42
	LOAD PER PHASE				6.00		6.79		6.79						

TOTAL = 19.59 kVA 54 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPB

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 225 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	EWH-1	4#12+G-3/4"C	20	3	0.83	0.83					3	20	4#12+G-3/4"C	EWH-2	2
3							0.83	0.83							4
5									0.83	0.83					6
7	EWH-3	4#12+G-3/4"C	20	3	0.83	0.90					2	20	3#12 + #12G	SUMP PUMP 2@1/3HP	8
9							0.83	0.90							10
11									0.83	1.00	1	20	2#12 + #12G	Card Reader	12
13	SPARE		20	1	0.00	1.00					1	20	2#12 + #12G	Card Reader	14
15	SPARE		20	1			0.00	1.00			1	20	2#10 + #12G	Card Reader	16
17	TEL/DATA RECEPT	2#12 + 12G	20	1					0.50	1.00	1	30	2#10+#10G	EXT. SEC. CAMERA	18
19	TEL/DATA RECEPT	2#12 + 12G	20	1	0.50	1.00					1	30	2#10+#10G	EXT. SEC. CAMERA	20
21	TEL/DATA RECEPT	2#10+#10G	30	2			1.00	0.20			1	20	2#12+#12G	INT. SEC. CAMERA	22
23									1.00	0.40	1	20	2#12+#12G	INT. SEC. CAMERA	24
25	EWH-3	4#12+G-3/4"C	20	3	0.83	0.00					1	20	2#12+#12G	Card Reader	26
27							0.83	0.91			1	20	2#12+#12G	GF-1 1/3 HP	28
29									0.83	0.20	1	20	2#12+#12G	WH-1& WH-2	30
31	UNIT HEATER	2#12 + 12G	20	1	1.00	0.73					1	20	2#12+#12G	RECIR. PUMP 1/4HP	32
33	UNIT HEATER	2#12 + 12G	20	1			1.00	0.00			1	20		WH-1	34
35	SPARE		20	1					0.00	0.00	1	20		WH-2	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				8.45		8.32		7.41						

TOTAL = 24.18 kVA 67 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

EPC

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 225 AMP | MAIN: 125 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	Call Circuit FACP	2#12 + G	20	1	1.00	0.50					1	20	2#12 + #12G	VOICE EVAC PANEL	2
3	FACP	2#12 + G	20	1			1.00	1.00			1	20	2#12 + #12G	Assistance Panel	4
5	SS-2	2#10+#10G	30	2					0.00	0.50	1	20	2#12 + #12G	TEL/DATA POWER	6
7					0.00	0.50					1	20	2#12 + #12G	TEL/DATA POWER	8
9	COND. PUMP	2#12 + G	20	1			0.08	0.50			1	20	2#12 + #12G	TEL/DATA POWER	10
11	TEL/DATA POWER	2#10+#10G	30	2					1.00	0.50	1	30	2#10+#10G	EXT. SEC. CAMERA	12
13					1.00	1.00					1	30	2#10+#10G	EXT. SEC. CAMERA	14
15	INT. SEC. CAMERA	2#12 + #12G	20	1			0.20	1.00			1	30	2#10+#10G	EXT. SEC. CAMERA	16
17	INT. SEC. CAMERA	2#12 + #12G	20	1					0.20	1.00	1	20	2#10+#10G	SUMP PUMP	18
19	INT. SEC. CAMERA	2#12 + #12G	20	1	0.40	0.50					2	30	2#10+#10G	LIFT	20
21	INT. SEC. CAMERA	2#12 + #12G	20	1			0.40	0.50							22
23	INT. SEC. CAMERA	2#12 + #12G	20	1					0.60	0.00	1	20		SPARE	24
25	SEC. EQUIPMENTS	2#12 + #12G	20	1	0.80	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				5.70		4.68		3.80						

TOTAL = 14.18 kVA 39 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1.
2.

ELEC

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 400 AMP | MAIN: 400 AMP CB

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	COMPUTERS	2#12+#12G	20	1	0.80	0.40					1	20	2#12+#12G	COMPUTERS	2
3	COMPUTERS	2#12+#12G	20	1			1.20	1.00			1	20	2#12+#12G	COMPUTERS	4
5	COMPUTERS	2#12+#12G	20	1					1.20	1.00	1	20	2#12+#12G	Control	6
7	COMPUTERS	2#12+#12G	20	1	1.20	0.00					1	20		SPARE	8
9	COMPUTERS	2#12+#12G	20	1			0.80	0.00			1	20		SPARE	10
11	COMPUTERS	2#12+#12G	20	1					0.80	0.85	1	20	2#12+#12G	Bathrooms	12
13	PROJECTOR	2#12+#12G	20	1	1.50	0.00					1	20		SPARE	14
15	RECEPT.-OFFICE	2#12+#12G	20	1			0.80	0.00			1	20		SPARE	16
17	RECEPT.-OFFICE	2#12+#12G	20	1					0.60	0.18	1	20	2#12+#12G	Wash Sink	18
19	ATCS	2#12+#12G	20	1	0.10	0.53					1	20	2#12+#12G	EF-7	20
21	SPARE		20	1			0.00	0.86			1	20	2#12+#12G	EF-46	22
23	Water Fountain	2#12+#12G	20	1					1.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.00	0.00					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
	LOAD PER PHASE				4.53		4.66		5.63						

DIVERSIFIED LOAD TOTAL = 8.89 kVA 25 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL & BUS DUCT.
2.

ELEC

208 Y/120V | 65K AIC | 3Ø-4W | BUS: 400 AMP | MAIN: 400 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	ØA	ØA	ØB	ØB	ØC	ØC	POLE	TRIP	WIRE SIZE	LOAD SERVED	
43	1/2" Drill Press	2#12+#12G	20	1	1.00	1.00					1	20	2#12+#12G	10" GRINDER	44
45	RECEPTACLES	2#12+#12G	20	1			0.40	0.40			1	20	2#12+#12G	RECEPTACLES	46
47	RECEPTACLES	2#12+#12G	20	1					0.40	0.20	1	20	2#12+#12G	CORD REEL	48
49	CORD REEL	2#12+#12G	20	1	0.20	0.20					1	20	2#12+#12G	CORD REEL	50
51	CORD REEL	2#12+#12G	20	1			0.20	0.20			1	20	2#12+#12G	CORD REEL	52
53	CORD REEL	2#12+#12G	20	1					0.20	0.20	1	20	2#12+#12G	CORD REEL	54
55	SPARE		20	1	0.00	0.20					1	20	2#12+#12G	CORD REEL	56
57	SPARE		20	1			0.00	0.20			1	20	2#12+#12G	CORD REEL	58
59	SPARE		20	1					0.00	0.20	1	20	2#12+#12G	CORD REEL	60
61	SPARE		20	1	0.00	0.20					1	20	2#12+#12G	CORD REEL	62
63	SPARE		20	1			0.00	0.20			1	20	2#12+#12G	CORD REEL	64
65	SPARE		20	1					0.00	0.20	1	20	2#12+#12G	CORD REEL	66
67	POWER MODULE	4#2+G-1-1/4"C.	100	3	6.00	0.20					1	20	2#12+#12G	CORD REEL	68
69							6.00	0.20			1	20	2#12+#12G	CORD REEL	70
71									6.00	0.00	1	20		SPARE	72
73	POWER MODULE	4#2+G-1-1/4"C.	100	3	6.00	6.00					3	100	4#2+G-1-1/4"C.	POWER MODULE	74
75							6.00	6.00							76
77									6.00	6.00					78
79	PANEL TEST	SEE SINGLE LINE	100	3	0.00	0.00					3	100	SEE SINGLE LINE	PANEL TEST1	80
81							0.00	0.00							82
83									0.00	0.00					84
	LOAD PER PHASE				21.00		19.80		19.40						

DIVERSIFIED LOAD TOTAL = 36.12 kVA 100 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☑ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL & BUS DUCT.
2.

NOTE:

1. REFER TO DRAWING E-401 FOR CONDUIT AND CONDUCTOR SCHEDULE. FURNISH AND INSTALL CONDUCTORS AS NOTED IN THE PANEL SCHEDULES. PROVIDE CONDUIT SIZE FOR CONDUCTOR INSTALLATION AS NOTED BY THE FEEDER SYMBOL IN THE CONDUIT AND CONDUCTOR SCHEDULE ON E-401.

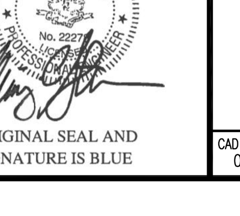
PANEL SCHEDULE DIRECTORY

EPS	EPK	EPK	IT
EPD	EPA2	ELEV	EPD2
EPB	EPC	ELEC S1	ELEC S2

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature



ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES7

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012 | Scale NONE | Drawn By RML | Approved By PCS | Drawing No. E-607

FILE:0451tb REV:02/01/2007 17:15
FILE:E0451ES7 REV: 06/20/12 17:02

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CNA

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. A1- MAIN	3#12+G-3/4"C.	20	1	LPA/5	LPA/6	1	20	3#12+G-3/4"C.	LGHT. CORR. A2- MAIN	2
3	LGHT. CORR. A1- UPPER	3#12+G-3/4"C.	20	1	LPA/7	LPA/8	1	20	3#12+G-3/4"C.	LGHT. CORR. A2- UPPER	4
-	SPARE	-	20	1	-	-	1	20	-	SPARE	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CNB

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. B1- MAIN	3#12+G-3/4"C.	20	1	LPB/25	LPB/26	1	20	3#12+G-3/4"C.	LGHT. CORR. B2- MAIN	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CNC

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. C1- MAIN	3#12+G-3/4"C.	20	1	LPC/16	LPC/17	1	20	3#12+G-3/4"C.	LGHT. CORR. C2- MAIN	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CEA

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. A1-MAIN	3#12+G-3/4"C.	20	1	ELA/6	ELA/7	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. A2-MAIN	2
3	EM. LGHT. CORR. A1-UPPER	3#12+G-3/4"C.	20	1	ELA/8	ELA/9	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. A2-UPPER	4
-	SPARE	-	-	-	-	-	-	-	-	SPARE	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CEB

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. B1-MAIN	3#12+G-3/4"C.	20	1	EPB/10	EPB/11	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. B2-MAIN	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CEC

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. C1-MAIN	3#12+G-3/4"C.	20	1	ELC/17	ELC/18	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. C2-MAIN	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CNC2

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. C4- MAIN	3#12+G-3/4"C.	20	1	LPC/18	LPC/19	1	20	3#12+G-3/4"C.	LGHT. CORR. C4- MAIN	2
3	LGHT. CORR. C4- MAIN	3#12+G-3/4"C.	20	1	LPC/21	LPC/23	1	20	3#12+G-3/4"C.	LGHT. CORR. C2+C3-MAIN	4
-	SPARE	-	-	-	-	-	-	-	-	SPARE	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CND

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. D1- MAIN	3#12+G-3/4"C.	20	1	LPD/4	LPD/5	1	20	3#12+G-3/4"C.	LGHT. CORR. D1- UPPER	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CNE

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	LGHT. CORR. E1- MAIN	3#12+G-3/4"C.	20	1	LPE/3	LPE/4	1	20	3#12+G-3/4"C.	LGHT. CORR. E1- MAIN	2
3	LGHT. CORR. E1- UPPER	3#12+G-3/4"C.	20	1	LPE/5	LPE/6	1	20	3#12+G-3/4"C.	LGHT. CORR. E1- UPPER	4
-	SPARE	-	20	1	-	-	1	20	-	SPARE	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CEC2

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. C4-MAIN	3#12+G-3/4"C.	20	1	ELC/19	ELC/20	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. C4-MAIN	2
3	EM. LGHT. CORR. C4-MAIN	3#12+G-3/4"C.	20	1	ELC/21	ELC/22	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. C2+C3-MAIN	4
-	SPARE	-	-	-	-	-	-	-	-	SPARE	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CED

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. D1-MAIN	3#12+G-3/4"C.	20	1	ELD/4	ELD/5	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. D1-UPPER	2
3	SPARE	-	20	1	-	-	1	20	-	SPARE	4
-	-	-	-	-	-	-	-	-	-	-	-

480/277 V. 3 PHASE - 4 WIRE
RELAY PANEL

CEE

- 20 AMP
- FTR

	LOAD SERVED	WIRE & CONDUIT	TRIP	POLE	PANEL FEED		POLE	TRIP	WIRE & CONDUIT	LOAD SERVED	
1	EM. LGHT. CORR. E1-MAIN	3#12+G-3/4"C.	20	1	ELE/8	ELE/9	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. E1-MAIN	2
3	EM. LGHT. CORR. E1-UPPER	3#12+G-3/4"C.	20	1	ELE/10	ELE/11	1	20	3#12+G-3/4"C.	EM. LGHT. CORR. E1-UPPER	4
-	SPARE	-	20	1	-	-	1	20	-	SPARE	-

208 Y/120V
65K AIC 3Ø-4W

BOILER

BUS: 100 AMP
MAIN: 100 AMP CB - S.T.*

	LOAD SERVED	WIRE SIZE	TRIP	POLE	LOAD IN kVA ØA		ØB		ØC		POLE	TRIP	WIRE SIZE	LOAD SERVED	
1	BOILER	2#12 + #12G	20	1	1.20	0.90					1	20	2#12 + #12G	RECEPTACLES	2
3	SPARE		20	1			0.00	5.00			2	20	2#12 + #12G	ELEC. WATER HEATER	4
5	BOILER	2#12 + #12G	20G	1					1.20	5.00					6
7	SPARE		20	1	0.00	0.00					2	20	2#12 + #12G	SPARE	8
9	BOILER	2#12 + #12G	20	1			1.20	0.00							10
11	SPARE		20	1					0.00	0.00	2	20	2#12 + #12G	SPARE	12
13	BOILER	2#12 + #12G	20	1	1.20	0.00									14
15	SPARE		20	1			0.00	1.00			1	20	2#12 + #12G	GAS HOT WTR HTR	16
17	BOILER	2#12 + #12G	20	1					1.20	0.00	1	20		SPARE	18
19	SPARE		20	1	0.00	0.00					1	20		SPARE	20
21	SPARE		20	1			0.00	0.00			1	20		SPARE	22
23	SPARE		20	1					0.00	0.00	1	20		SPARE	24
25	SPARE		20	1	0.00	0.00					1	20		SPARE	26
27	SPARE		20	1			0.00	0.00			1	20		SPARE	28
29	SPARE		20	1					0.00	0.00	1	20		SPARE	30
31	SPARE		20	1	0.72	0.40					1	20		SPARE	32
33	SPARE		20	1			0.00	0.00			1	20		SPARE	34
35	SPARE		20	1					0.00	0.00	1	20		SPARE	36
37	SPARE		20	1	0.00	0.00					1	20		SPARE	38
39	SPARE		20	1			0.00	0.00			1	20		SPARE	40
41	SPARE		20	1					0.00	0.00	1	20		SPARE	42
				LOAD PER PHASE	4.42		7.20		7.40						

TOTAL = 11.41 kVA 32 AMPS A = AFI BREAKER

NOTES: ☐ FEED THROUGH LUGS ☐ FLUSH ☐ 600KCM LUGS ☐ ISOLATED GROUND BUS G = GFI BREAKER

1. * "S.T." = SHUNT TRIP MAIN CIRCUIT BREAKER SERVING ENTIRE PANEL.
2.

PANEL SCHEDULE DIRECTORY

CNA	CNB	CNC
CEA	CEB	CEC
CNC2	CND	CNE
CEC2	CED	CEE
BOILER		

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-3243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
ELECTRICAL PANEL SCHEDULES

REVISIONS

Mark	Date	Description

CAD No. 0451ES8

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1"=1'-0"
Drawn By -
Approved By -
Drawing No. E-608

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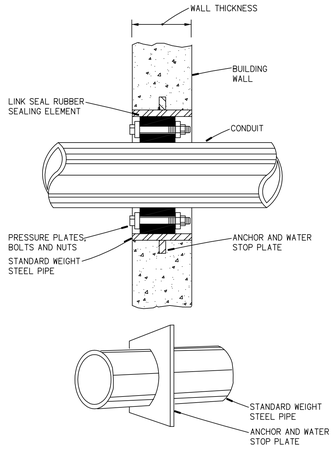
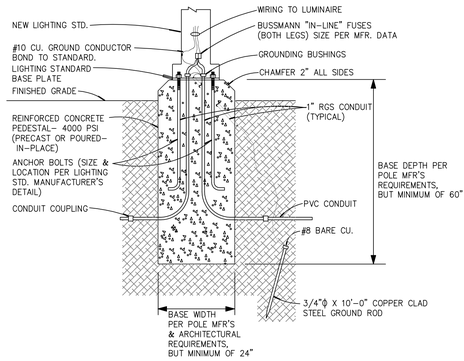
FILE:0451ES0(REV: MM/DD/YY HH:MM
FILE:0451ES8 REV: 06/20/12 17:01



1 WATER-TIGHT WALL SLEEVE

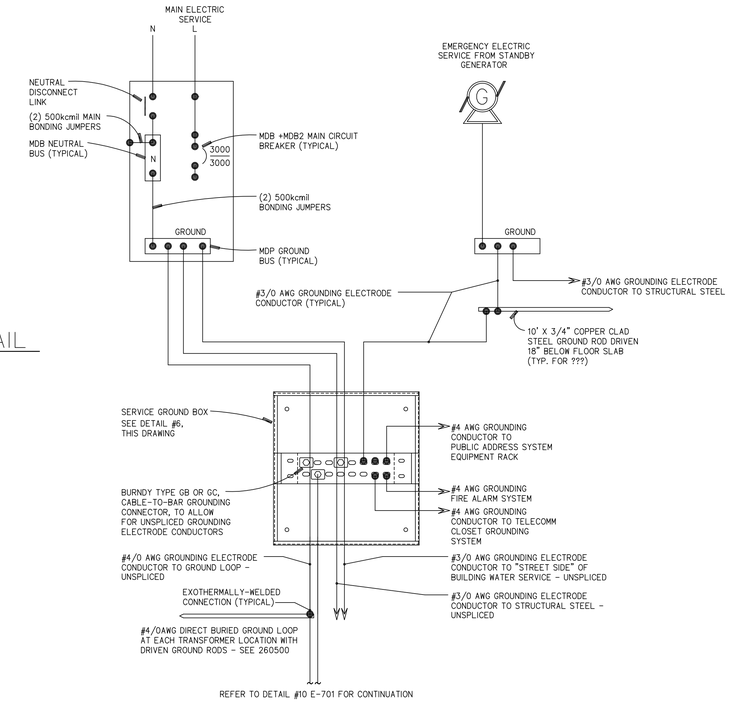
E701 | E701 SCALE: NONE



5 LIGHTING STANDARD (FOUNDATION) DETAIL

E701 | E701 SCALE: NONE

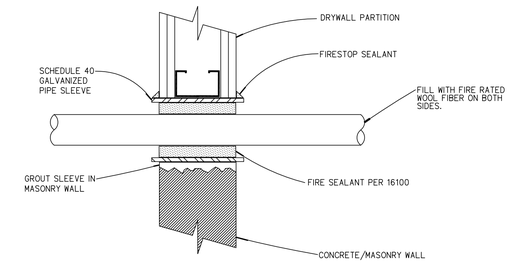
NOTE: PROVIDE 1/2" OF NON-SHRINK GROUT BETWEEN LIGHTING STANDARD BASE PLATE AND CONCRETE.



9 SERVICE GROUNDING & INTERCONNECTION DETAIL

E701 | E701 SCALE: NONE

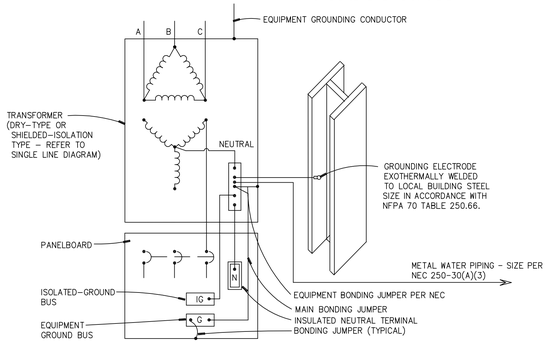
NOTE: PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS AT ALL ENCLOSURES WHERE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED WITHIN METALLIC CONDUIT. PROVIDE CONDUIT SLEEVE(S) WHERE GROUNDING ELECTRODE CONDUCTOR(S) PENETRATES FLOOR SLAB AND/OR FOOTING. PROVIDE BONDING JUMPERS AS DESCRIBED ABOVE.



NOTE: FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE 260500. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.

2 FIRE-RATED WALL PENETRATION

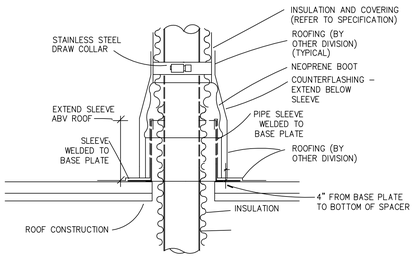
E701 | E701 SCALE: NONE



6 TRANSFORMER GROUNDING DETAIL

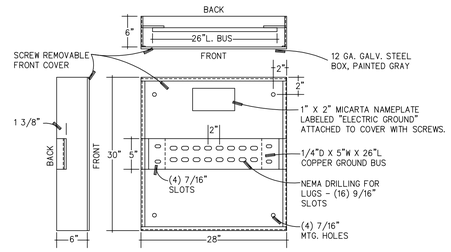
E701 | E701 SCALE: NONE

GROUND CONDUCTORS TO BE SIZED PER NEC ARTICLE 250-30(A)(1) & TABLE 250-66



3 PIPING ROOF PENETRATION - PIPING

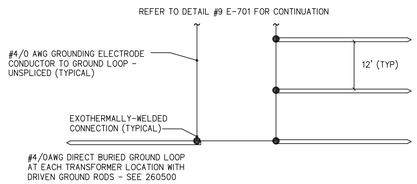
E701 | E701



NOTE: ALL GROUND LUG CONNECTORS SHALL BE COMPRESSION TYPES - BURNDY "K2C" FOR 2 CONDUCTORS OR BURNDY "KC" FOR 1 CONDUCTOR

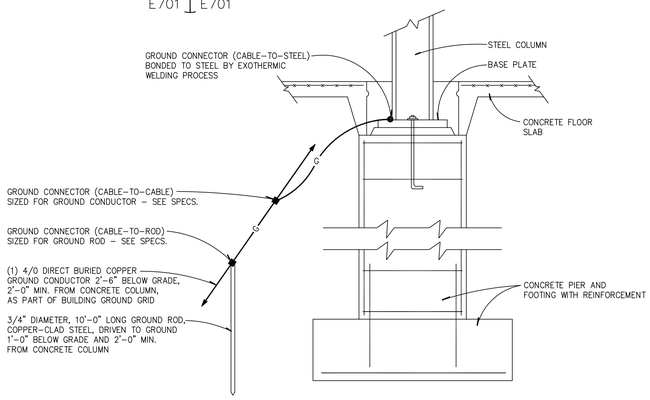
7 SERVICE GROUND BOX DETAIL

E701 | E701 SCALE: NONE



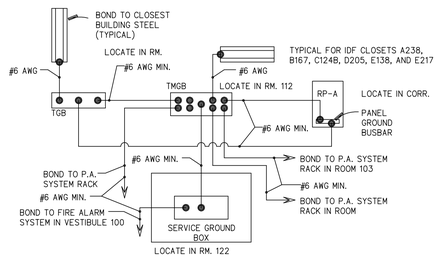
10 SERVICE GROUND ROD DETAIL FOR MDB AND MDB2

E701 | E701 SCALE: NONE



4 STRUCTURAL COLUMN GROUNDING DETAIL

E701 | E701 SCALE: NONE



TMGB = TELECOMM. MAIN GROUNDING BUSBAR (4"H. X 1/4"D. X 24"L. PER TIA/EIA-607)
TGB = TELECOMM. GROUNDING BUSBAR (2"H. X 1/4"D. X 18"L. PER TIA/EIA-607)

ALL GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION AND SHALL BE RUN IN METALLIC CONDUIT WITH BONDING JUMPERS.

8 TELECOMM. & P.A. SYSTEM GROUNDING RISER

E701 | E701 SCALE: NONE

CMR BID DOCUMENTS

Consultant: AlbieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: DETAILS ELECTRICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, ALBERT J. SEBOR, No. 22077, PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE PROFESSION OF ENGINEERING, ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451ED01	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012 | Scale 1"=1'-0" | Drawn By - | Approved By - | Drawing No. E-701

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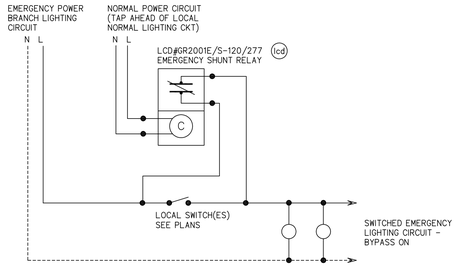
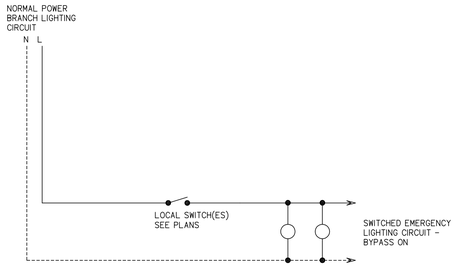
PLOTTED: 06/26/12 10:31



1 EMERGENCY LIGHTING CONTROL SHUNT RELAY DETAIL

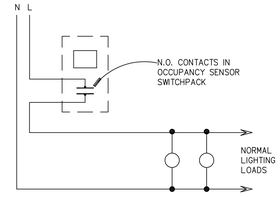
E702 | E702 SCALE: NONE

NOTE: USED TO BYPASS LOCAL SWITCH IN EMERGENCY CIRCUIT UPON SENSING OF NORMAL POWER LOSS. RATED 20A FOR CONTROL OF ENTIRE CIRCUIT. FACTORY-MOUNTED IN 4"SQ OUTLET BOX WITH BARRIER.



4 NORMAL LIGHTING CONTROL –

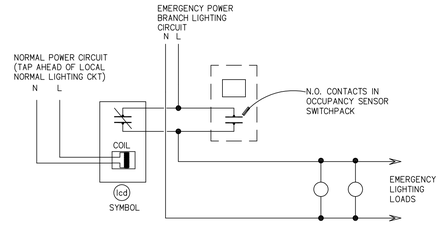
E702 | E702 SCALE: NONE



6 WALL MOUNTED OCCUPANCY SENSOR SWITCH WIRING DIAGRAM

E-702 | E-702 SCALE: NONE

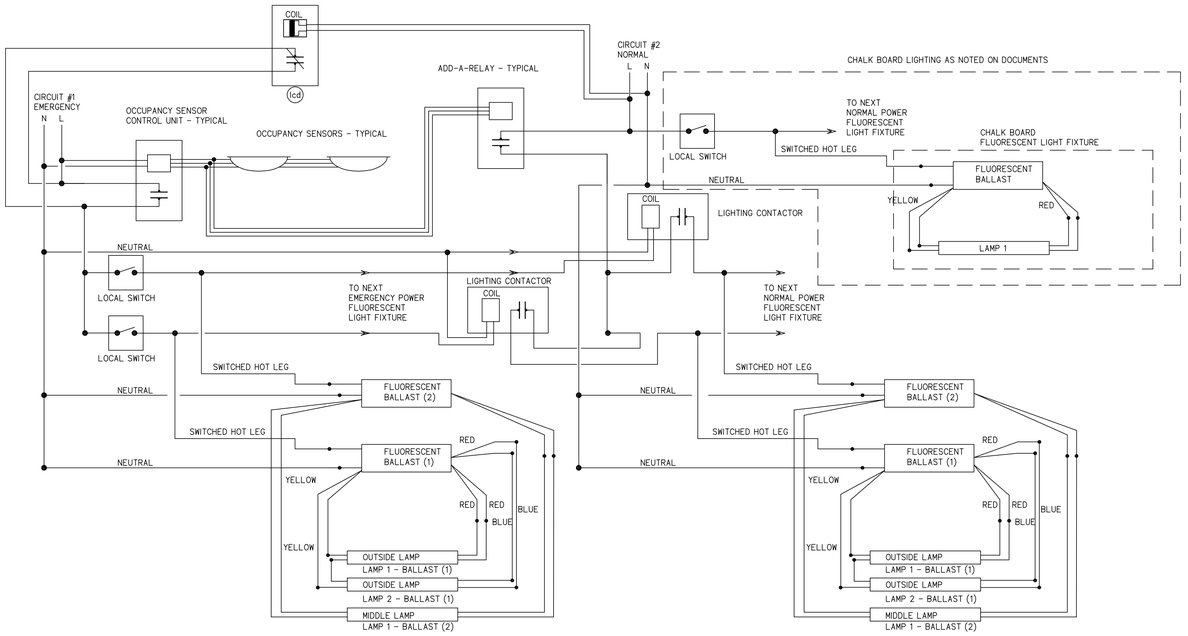
PROVIDE FOR ALL WINDOWLESS ROOMS.



8 WALL MOUNTED OCCUPANCY SENSOR SWITCH WIRING DIAGRAM

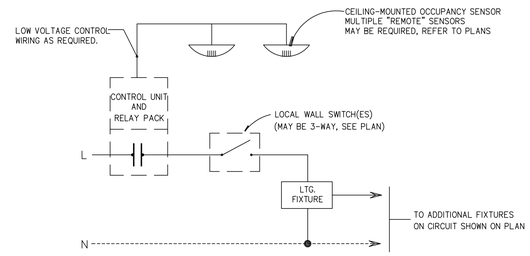
E-702 | E-702 SCALE: NONE

PROVIDE FOR ALL WINDOWLESS ROOMS AND AS NOTED



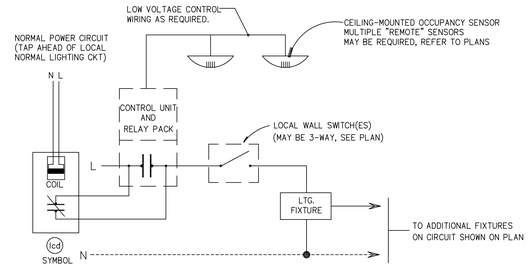
2 WIRING DIAGRAM FOR (2) BALLAST TYPICAL CLASSROOM (2) CIRCUIT LIGHTING CONTROL

E702 | E702 SCALE: NONE



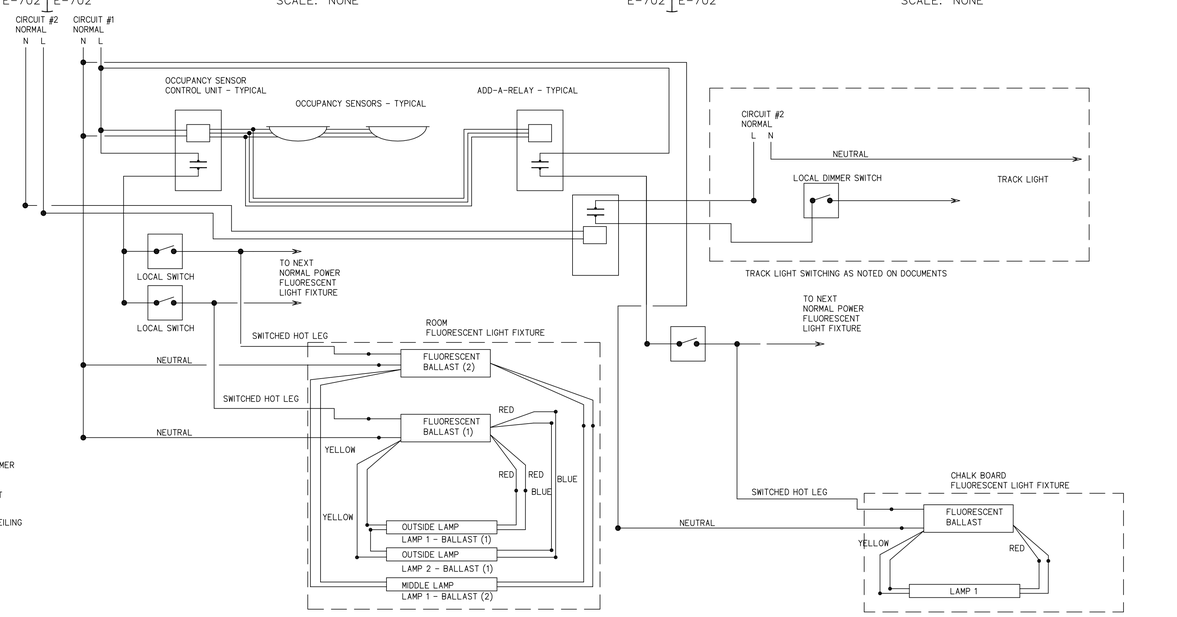
7 OCCUPANCY SENSOR WIRING DIAGRAM

E-702 | E-702 SCALE: NONE



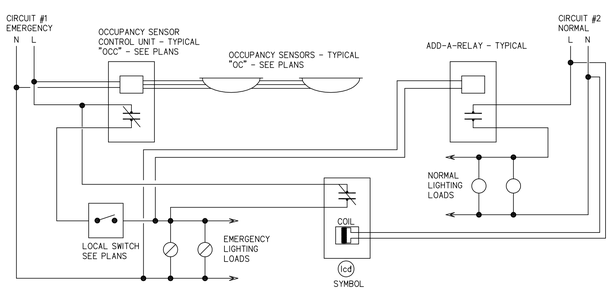
9 OCCUPANCY SENSOR WIRING DIAGRAM

E-702 | E-702 SCALE: NONE



10 WIRING DIAGRAM FOR (2) BALLAST SWITCHING FOR TYPICAL CLASSROOM LIGHTING AND CHALK BOARD LIGHTS

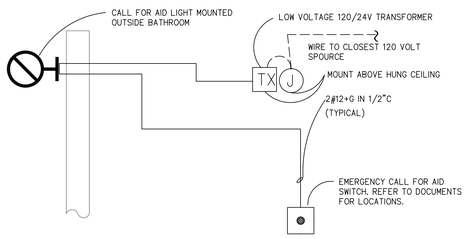
E702 | E-702 SCALE: NONE



3 TWO CIRCUIT AUTOMATIC LIGHTING CONTROL DETAIL

E702 | E702 SCALE: NONE

ADD-A-RELAY - TYPICAL
SQUARE D #DPA12 V04 / V02
COIL VOLTAGE AS REQUIRED



5 TYPICAL EMERGENCY CALL FOR AID WIRING DETAIL

E-702 | E-702 SCALE: 1"=1'-0"

REFER TO DOCUMENTS FOR LOCATION
REFER TO E-001

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
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Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
DETAILS
ELECTRICAL

REVISIONS

Mark	Date	Description

CAD No. 0451ED02

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
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Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-R1-837

Date 06-18-2012
Scale 1"=1'-0"
Drawn By –
Approved By –
Drawing No. E-702

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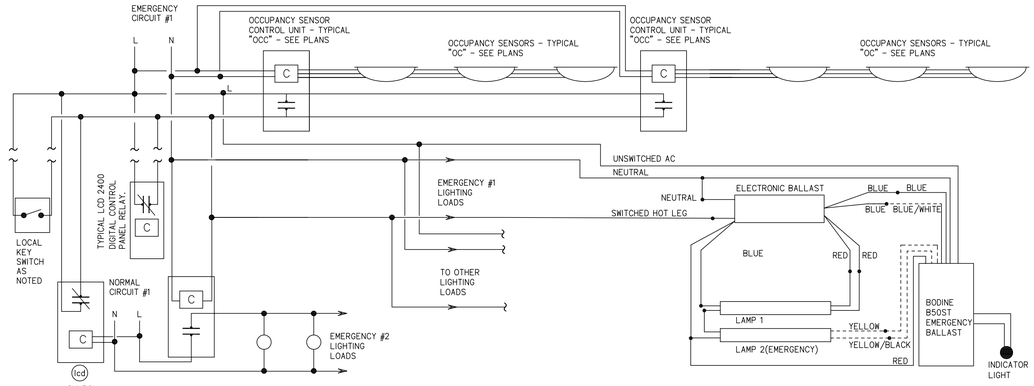
FILE:0451ED00REV: 06/21/06 13:22
REV: 10/20/11 15:43



TYPICAL STAIRWELL OCCUPANCY SENSOR LIGHTING CONTROL DETAIL WITH BATTERY BALLAST, EMERGENCY OVERRIDE RELAY, AND LCD PROGRAMMED OVERRIDE CONTROLS AND OR LOCAL CONTROL

1 — SCALE: NONE

PROVIDE ADDITIONAL OCCUPANCY CONTROL AS NOTED ON THE DOCUMENTS.
PROVIDE BATTERY BALLAST AS NOTED ON THE DOCUMENTS.
PROVIDE 3 CONDUCTORS AND GROUND FOR STAIR WELL CONTROL CIRCUITS.

SEQUENCE OF OPERATION

CONTRACTOR SHALL CONFIRM SEQUENCE OF OPERATIONS.

INTERIOR OF BUILDING

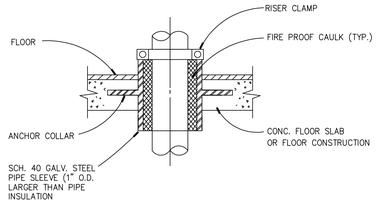
THE OPERATION FOR THE INTERIOR LIGHTS SHALL BE VIA TIMECLOCK CONTROL.
DAY TIME OPERATION SHALL BE FROM 6:00AM TO 10:00PM.
NIGHT TIME OPERATION SHALL BE VIA LOCAL OCCUPANCY SENSOR CONTROL.
NIGHT TIME OPERATION SHALL BE AFTER EVENING CLASSES HAVE ENDED
PROVIDE PRESET SWITCHES AS NOTED ON THE DOCUMENTS

EXTERIOR OF BUILDING

THE OPERATION FOR THE EXTERIOR LIGHTS SHALL BE VIA TIMECLOCK CONTROL.
NIGHT TIME OPERATION SHALL BE FROM 6:00PM TO 12:00AM.
SECURITY LIGHTING FROM 12:00AM TO 6:00AM

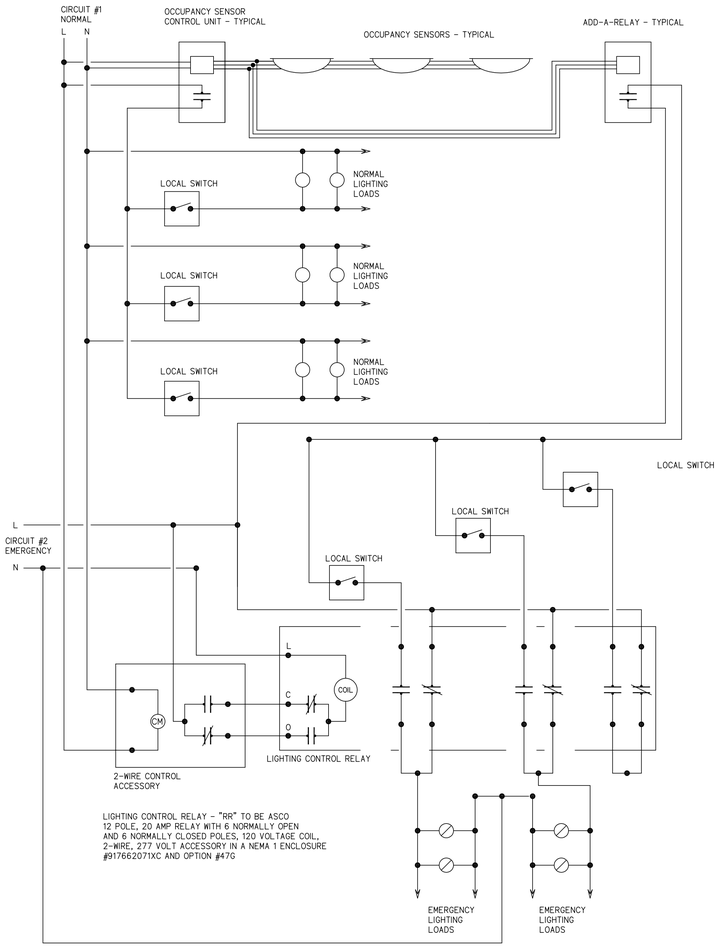
OCCUPANCY SENSOR OPERATION

THE OCCUPANCY SENSOR SHALL OPERATE THE LIGHTS FOR THE MAXIMUM TIME ALLOWED BY THE EQUIPMENT DURING OFF HOURS.



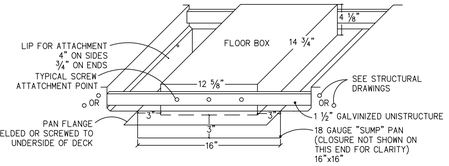
2 PIPE PENETRATION WITH SLEEVE

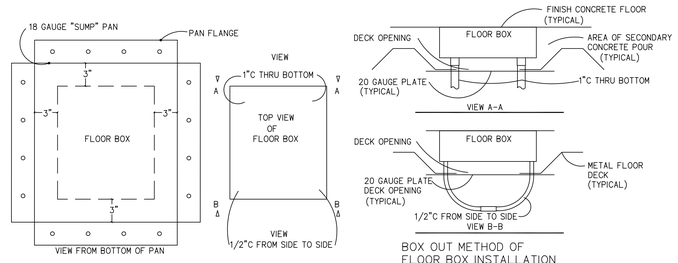
E703 | E703 N.T.S.



TYPICAL NORMAL/EMERGENCY LIGHTING CONTROL DETAIL WITH AUTOMATIC/MANUAL CONTROLS

4 — E-703 | E-703 SCALE: NONE





PROCEDURE NOTES FOR 6" OR LESS THICK FLOOR SLAB:

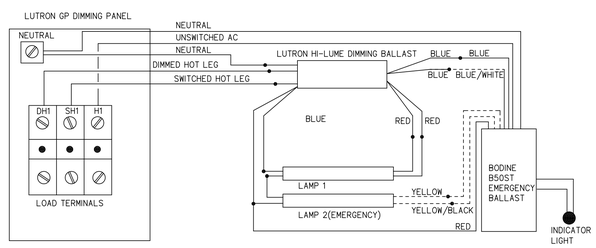
1. FLOOR BOX CONDUIT SHALL BE IN FLOOR SLAB AS INDICATED
2. ELECTRICAL CONTRACTOR SHALL BOX OUT FOR FLOOR BOX IN A 22"x 22" AND INSTALL CONDUITS FOR INITIAL CONCRETE POUR AND INSTALL REINFORCING STEEL PER THE STRUCTURAL DOCUMENTS
3. AFTER CONCRETE CURES, ELECTRICAL CONTRACTOR SHALL CUT DECKING INSTALL FLOOR BOX AND DECKING PAN PER THIS DETAIL
4. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL POUR OF CONCRETE AROUND FLOOR BOX, PROVIDING NO LESS THAN 3" OF CONCRETE ON ALL SIDES AND BOTTOM OF FLOOR BOX
5. ELECTRICAL CONTRACTOR SHALL ENSURE THE TOP OF THE FLOOR BOX IS FLUSH WITH THE TOP OF THE FINISHED SLAB OR FINISHED FLOOR WITHIN FLOOR MANUFACTURING DIMENSION TOLERANCES
6. ELECTRICAL CONTRACTOR SHALL COORDINATE FINISH FLOOR TYPE, CARPET, VCT, AND TILE. THE COVER PLATE GASKET IS REQUIRED TO SEAL AGAINST THE CONCRETE NOT THE CARPET, VCT, OR TILE. READ THE INSTALLATION INSTRUCTIONS AND PROVIDE APPROPRIATE ACCESSORIES.
7. FURNISH AND INSTALL (1) 1/2" CONDUIT FROM ONE SIDE OF BOX TO THE OTHER.

BOX OUT METHOD OF FLOOR BOX INSTALLATION

1. CUT METAL DECK 1/2" SMALLER THAN THE DIMENSIONS OF THE FLOOR BOX
2. FURNISH AND INSTALL SHEET METAL 20 GAUGE COVER PLATE TO SEAL OPENING.
3. DRILL HOLES AS REQUIRED FOR 1"C AND 1/2"C.
4. INSTALL CONDUIT STUBS AND INSTALL CONDUIT BELOW FLOOR AS REQUIRED TO ABOVE HUNG CEILING OF FLOOR BOX ACCESS. REFER TO PLANS FOR CIRCUIT INFORMATION.
5. FURNISH AND INSTALL SPRAY ON FIRE-PROOFING.
6. SEAL FLOOR OPENING WITH FIRE CAULK BEFORE FINISH CONCRETE POUR IS PERFORMED.
7. THIS INSTALLATION METHOD HAS VERBAL APPROVAL OF NHBO (AHJ).
8. REFER TO PROCEDURE NOTES FOR 6" OR LESS SLAB.

3 FLOOR BOX FIRE DETAIL

E703 | E703 SCALE: NONE



WIRING DIAGRAM FOR EMERGENCY BALLAST CONNECTION TO DIMMING SYSTEM

5 — E-703 | E-703 SCALE: NONE

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-5243	Drawing Title: DETAILS ELECTRICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, No. 22273 — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 0451ED03	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1"=1'-0"
Drawn By: –
Approved By: –
Drawing No. E-703

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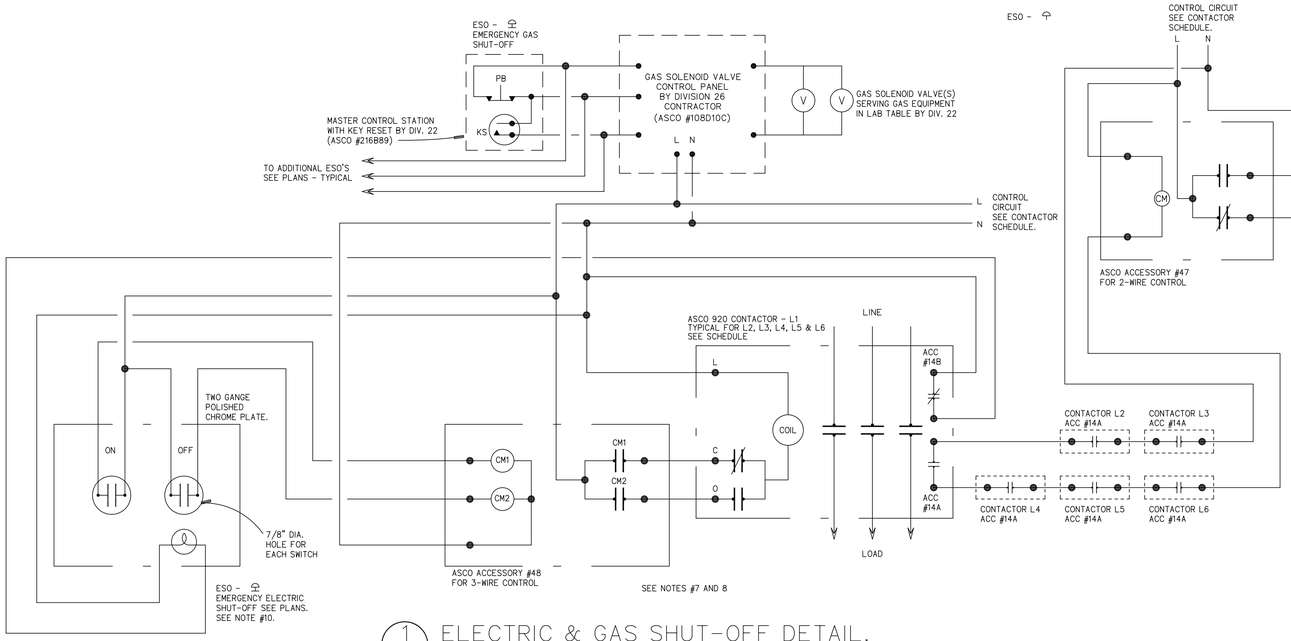
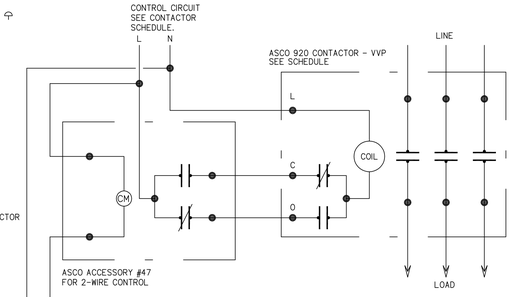
REV: 06/20/03 15:44



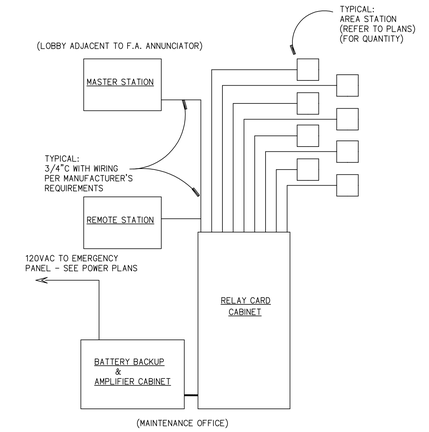
1 ELECTRIC & GAS SHUT-OFF DETAIL.

E704 | E704 SCALE: NONE



NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, LEGEND, AND GENERAL NOTES.
2. PANEL MOUNTED ASCO 920 CONTACTOR (REFER TO PANEL SCHEDULES AND SEE NOTE 7).
3. REMOTE MOUNTED ASCO 920 CONTACTOR LOCATED ABOVE CEILING AT ASSOCIATED PANEL LOCATION. SEE NOTE 8.
4. REMOTE MOUNTED ASCO 917 CONTACTOR LOCATED ABOVE CEILING AT ASSOCIATED PANEL LOCATION. SEE NOTE 9.
5. NOT USED
6. PARALLEL CONTACTOR CONTROLS CIRCUIT.
7. PROVIDE ASCO #920310030X WITH OPTIONS #14A, 14B & 48 (120 VOLT).
8. PROVIDE ASCO #920310031XC WITH OPTIONS #14A, 14B & 48 (120 VOLT).
9. PROVIDE ASCO #917122031XC WITH OPTIONS #14AH & 48B (120 VOLT).
10. EMERGENCY ELECTRIC SHUTOFF TO BE A TWO GANG POLISHED CHROME PLATE WITH 2-1/2" DEEP BACKBOX AND CONTAIN THE FOLLOWING PUSH BUTTONS AND PILOT LIGHT. "ON" BUTTON TO BE MOELLER #M22-D-S-GB6/K11, MOMENTARY CONTACT STANDARD PUSHBUTTON WITH N.O. AND N.C. CONTACTS, CONTACT BLOCK AND DISK INSERT HAVING BLACK DISC WITH WHITE "ON" LETTERS, 120 VOLT RATED. "OFF" BUTTON TO BE MOELLER #M22-DL-R-XO/K11/LED230R, MOMENTARY CONTACT ILLUMINATED PUSHBUTTON WITH N.O. AND N.C. CONTACTS, CONTACT BLOCK, RED LED LAMP HOLDER AND LAMP AND INSERT HAVING RED DISK WITH BLACK CIRCLE, 120 VOLT RATED. QUANTITY AS NOTED ON DOCUMENTS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR LAB TABLE DETAILS.
12. CONTRACTOR TO RUN POWER WIRING BETWEEN JUNCTION BOXES AND OUTLETS WITH-IN DESK CONSTRUCTION, SUPPORTED AS REQUIRED FOR CONCEALLED INSTALLATION SEE NOTE #11 ABOVE. SAME APPLIES FOR DATA EXCEPT WORK IS BY OTHER DIVISIONS.



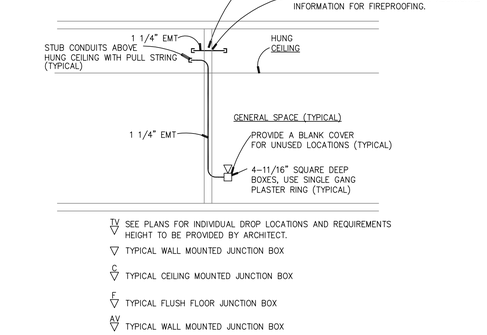
3 AREA OF REFUGE RISER DIAGRAM

E704 | E704 SCALE: NONE

NOTE: REFER TO SPECIFICATION SECTION 260500.2.23 FOR SYSTEM

NOTE:

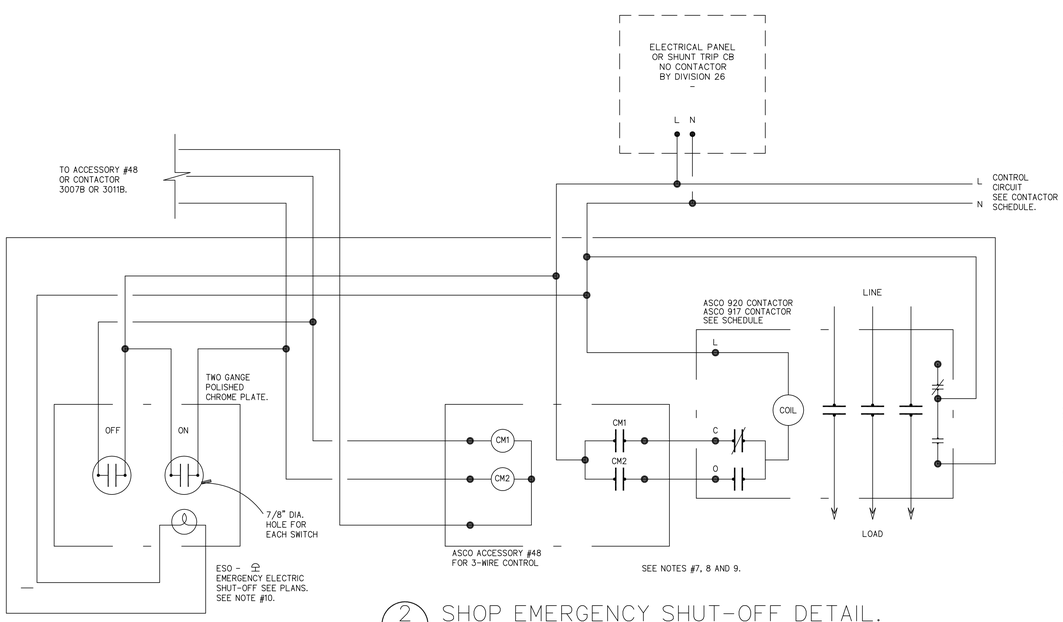
FOR EACH DROP PROVIDE A 1 1/4" EC RUN TO ABOVE THE ACCESSIBLE HUNG CEILING AREA. IF THE ACCESSIBLE HUNG CEILINGS ARE NOT PROVIDED THEN THE CONDUIT DROP SHALL TERMINATE AT THE NEAREST ACCESSIBLE CEILING.



4 TYPICAL TELECOMMUNICATION DROP DETAIL

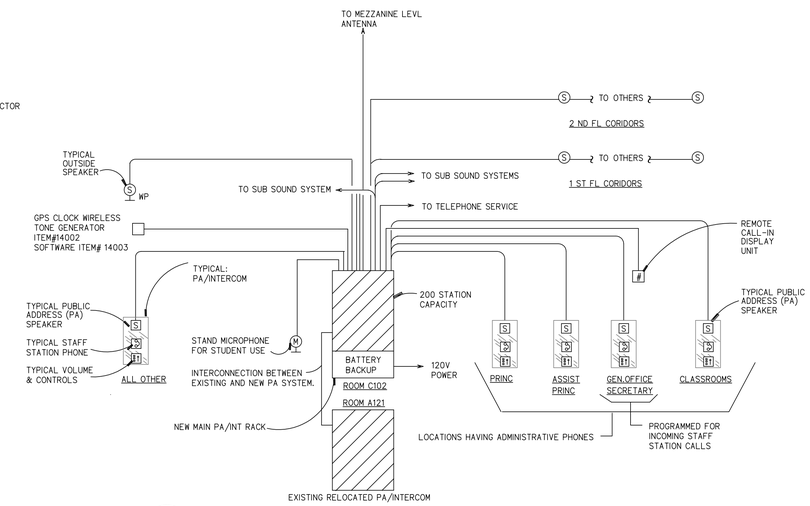
E704 | E704 SCALE: NONE

NOTE: TELECOMMUNICATIONS CABLE AND DEVICE PLATES TO BE PROVIDED BY OWNERS INDEPENDENT CONSULTANT.



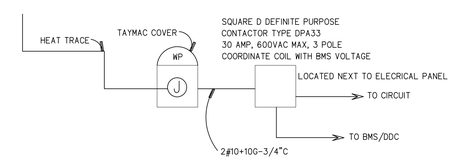
2 SHOP EMERGENCY SHUT-OFF DETAIL.

E704 | E704 SCALE: NONE



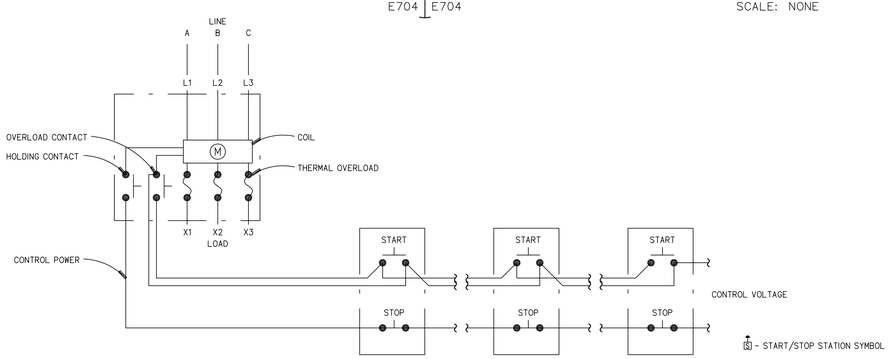
6 PUBLIC ADDRESS/INTERCOM RISER

E704 | E704 SCALE: = NONE



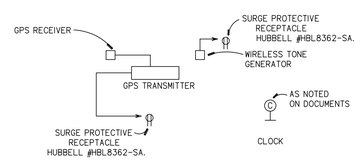
5 HEAT TRACING CONTROL DETAIL

E704 | E704 SCALE: NONE



8 START STOP WIRING DIAGRAM

E704 | E704 SCALE: = NONE REFER TO DRAWINGS FOR START STOP LOCATIONS



7 GPS WIRELESS CLOCK ONE-LINE

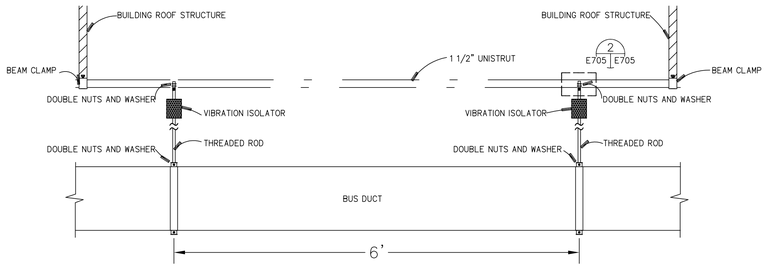
E704 | E704 SCALE: = NONE

1. FURNISH AND INSTALL CLOCK POWER RECEPTACLE FOR EACH CLOCK. PROVIDE HUBBELL #HBL8362-SA. WIRE TO LOCAL 120 VOLT CIRCUIT.
2. FURNISH AND INSTALL SHELF FOR MOUNTING GPS TRANSMITTER AND TONE GENERATOR..

CMR BID DOCUMENTS

Consultant: AlmeriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: DETAILS ELECTRICAL	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22077 — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604 — Date: 06-18-2012
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514 — Scale: 1"=1'-0"
	CAD No. 0451ED04	Project No. BI-RT-837 — Drawing No. E-704

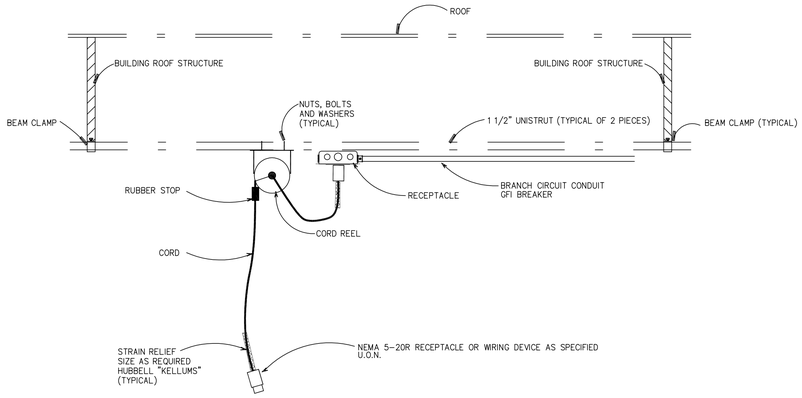
FILE0451b REV:02/01/2007 17:15
FILE0451ED04 REV: 06/20/12 15:46



1 BUS DUCT SUPPORT DETAIL

E705 E705 SCALE: NONE

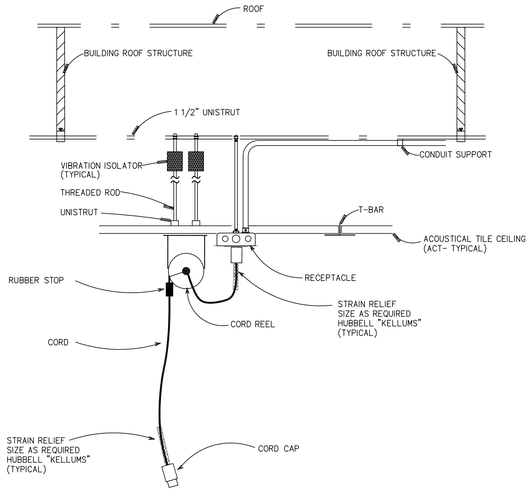
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



4 CORD REEL SUPPORT (NO CEILING)

E705 E705 SCALE: NONE

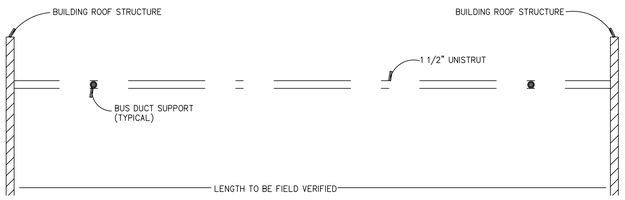
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



6 CORD REEL SUPPORT (CEILING)

E705 E705 SCALE: NONE

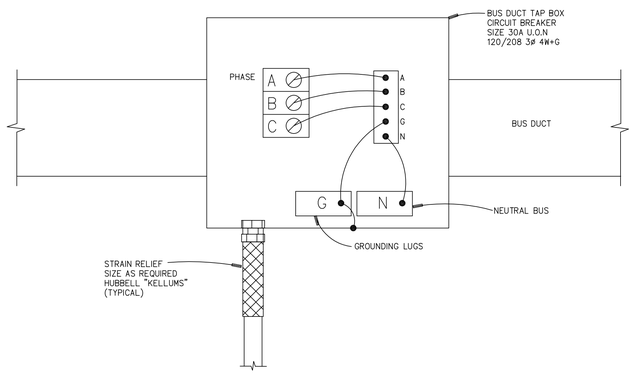
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



2 BUS DUCT SUPPORT

E705 E705 SCALE: NONE

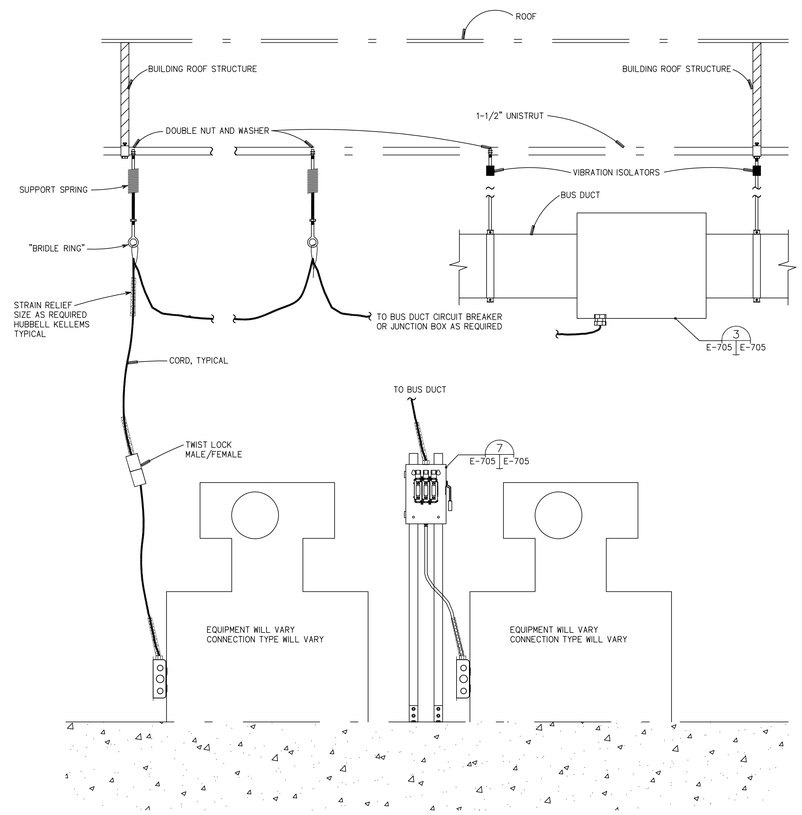
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



3 BUS DUCT DISCONNECT DETAIL (TYPICAL)

E705 E705 SCALE: NONE

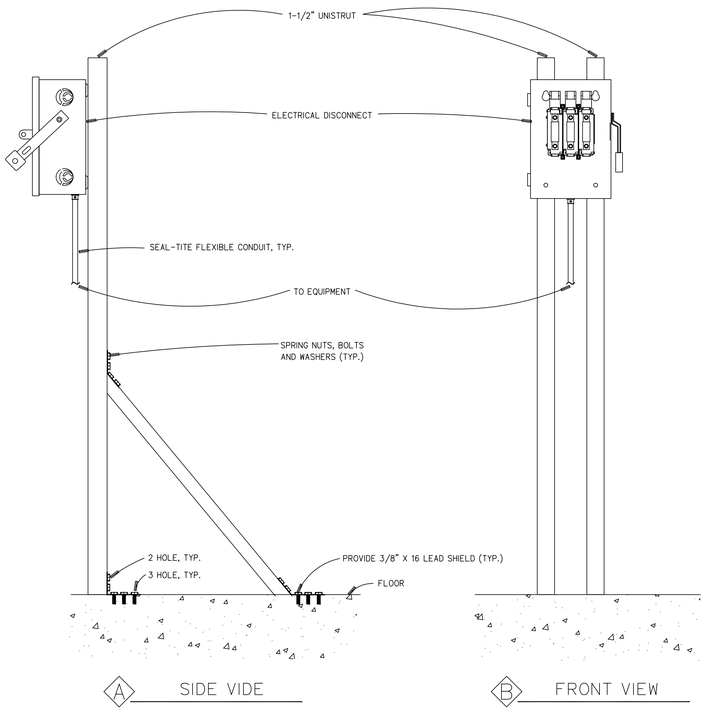
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



5 BUS DUCT WIRING DETAIL (TYPICAL)

E-705 E-705 SCALE: NONE

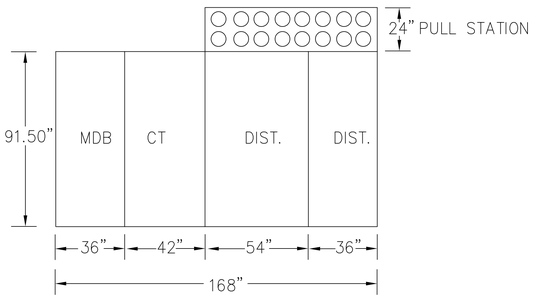
PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



7 DISCONNECT DETAIL (TYPICAL)

E-705 E-705 SCALE: NONE

PROVIDE NUTS, BOLTS AND WASHERS AS REQUIRED



8 MDB1 & MDB2 LAYOUT

E705 E705 SCALE: NONE

CMR BID DOCUMENTS

Consultant: AltieriSeboriWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: DETAILS ELECTRICAL	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045/ED05	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837
		Date 06-18-2012
		Scale NONE
		Drawn By SDL
		Approved By -
		Drawing No. E-705

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FILE:045/ED05REV: RBW/00/00/00WD42 15:47

FIRE PROTECTION NOTES

GENERAL DESCRIPTION:

- REMOVE AND PROPERLY DISPOSE OF ALL EXISTING FIRE PROTECTION PIPING AND HANGERS, UNLESS NOTED OTHERWISE. PROVIDE A NEW 6" UNDERGOUND FP WATER SUPPLY BY CONNECTING TO THE EXISTING UG PIPING THAT COMES FROM JONES ROAD. REFER TO DWG F-003 FOR ADDITIONAL 6" UG FP PIPING INFORMATION. INCLUDE A NEW FDC ASSEMBLY ON THE SIDE OF THE BUILDING FACING FAIRVIEW AVENUE. THE BUILDING'S NEW FIRE SPRINKLER SYSTEM SHALL CONSIST OF A 6" BACKFLOW PREVENTER, FOUR 6" RISER CHECK VALVE ASSEMBLIES, SPRINKLER ZONE CONTROL ASSEMBLIES AND WET SPRINKLERS THROUGHOUT EXCEPT FOR AN ANTI-FREEZE SYSTEM TO THE SPRINKLER HEAD/S LOCATED IN THE EXTERIOR DUST COLLECTOR ASSEMBLY AND A DRY SYSTEM PROTECTING THE EXTERIOR WALKWAY.
- THE DESIGN OF ALL FIRE SUPPRESSION SYSTEMS WILL BE IN ACCORDANCE WITH THE STATE OF CONNECTICUT 2005 BUILDING & FIRE CODES, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, THE 2003 IBC, THE 2003 LIFE SAFETY CODE (NFPA 101), NFPA 13, FACTORY MUTUAL GUIDLINES AND ALL OTHER CODES REFERENCED THEREIN. USE ONLY UL/FM APPROVED SPRINKLERS, MATERIALS, AND DEVICES, UNO.
- ACTIVATION OF A TAMPER SWITCH SHALL RESULT AS A "SUPERVISORY" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL. ACTIVATION OF A PADDLE TYPE OR PRESSURE TYPE FLOW SWITCH SHALL RESULT AS AN "ALARM" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL.
- THE SPRINLKER CONTRACTOR IS REQUIRED TO VISIT THE SITE AT THE TIME OF BID TO EXAMINE AND VERIFY FIELD CONDITIONS. ANY DISCREPANCIES OR QUESTIONS CONCERNING THE PROJECT SCOPE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER (IN WRITING) PRIOR TO SUBMITTING BID. ALSO NOTE THE DEGREE OF DIFFICULTY IN GETTING EQUIPMENT (INCLUDING LIFTS AND SCAFFOLDS) IN AND OUT OF THE BUILDING.
- THE CONTRACTOR SHALL COORDINATE ALL PIPING WITH ALL OTHER TRADES AND STRUCTURES. THE CONTRACTOR SHALL COORDINATE ALL FIRE SUPPRESSION SYSTEMS WITH CONSTRUCTION PHASING.
- THE SPRINKLER CONTRACTOR SHALL SEAL AROUND ALL NEW PIPE PENETRATIONS THROUGHOUT THE BUILDING WITH SEALANT OF FIRE RETARDANT TYPE EQUAL IN FIRE RATING TO THE STRUCTURE BEING PENETRATED. SEALANT SHALL BE A UL LISTED ASSEMBLY INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIRMENTS.
- ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY ACCESSIBLE DRAIN AND FLUSHING CONNECTIONS AS REQUIRED BY NFPA 13. PROVIDE AND INSTALL AUXILIARY DRAINS WITH PROVISIONS FOR COMPLETE DRAINAGE. ALL SPRINKLER CONTROL ASSEMBLIES SHALL BE CONNECTED TO TEST
- AND DRAIN PIPING. ALL TEST PIPING SHALL BE ROUTED TO THE BUILDING EXTERIOR OR AN ADEQUATELY SIZED FLOOR DRAIN, OR OTHER ENGINEER & ARCHITECT APPROVED LOCATION. WHERE APPROVED BY ENGINEER, AUXILIARY DRAINS MAY CONSIST OF A DRAIN VALVE WITH HOSE THREAD AND CAP.
- PROVIDE MAKES AND MODELS OF ALL DEVICES AND MATERIALS ON ALL SHOP DRAWINGS. ALL SYSTEM COMPONENTS SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF 175 PSI.
- PROVIDE EARTHQUAKE/SEISMIC BRACING IN ACCORDANCE WITH NFPA 13 AND THE CONNECTICUT STATE BUILDING CODE. ALL HANGER MATERIAL INCLUDING SEISMIC HALL BE GALVANIZED.
- INSPECTOR'S TEST CONNECTIONS, DRAIN VALVES AND CONTROL VALVES SHALL BE READILY ACCESSIBLE AND INSTALLED NOT OVER ±7'-0" ABOVE THE FINISHED FLOOR. PROVIDE ALL CONTROL & DRAIN VALVES WITH VALVE TAG NUMBERS & IDENTIFICATION SIGNS INDICATING SYSTEM TYPE, SYSTEM # AND ZONE #. SUPERVISORY SWITCHES SHALL BE ON ALL CONTROL VALVES.
- PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC, AND INDICATES A GENERAL ARRANGEMENT OF WORK. PROVIDE ANY ADDITIONAL SPRINKLER HEADS, PIPING, HANGERS, SUPPLIMENTAL HANGERS STRUCTURE, MATERIALS, LABOR OR ENGINEERING REQUIRED FOR A COMPLETE, CODE COMPLIANT FIRE PROTECTION SYSTEM. THESE SPRINKLER HEADS ARE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF THERE ARE ANY DISCREPANCIES, REVIEW THEM WITH THE ARCHITECT BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL PROVIDE AND INSTALL ANY REQUIRED SUPPLEMENTAL HANGERS STRUCTURE OR BRACING REQUIRED FOR FIRE PROTECTION WORK. (I.E. UNI-STRUT, TRAPEZE HANGER...)
- ALL EXPOSED PIPING SHALL RUN TIGHT TO THE UNDERSIDE OF STRUCTURE OR OTHER APPROVED LOCATION. DO NOT RUN EXPOSED PIPING IN FRONT OF WINDOWS OR SKYLIGHTS. PIPING SHALL BE PLUMB AND/OR RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL STEEL, WALLS, AND CEILINGS.
- ALL EXPOSED SPRINKLER HEADS SHALL HAVE HEADGUARDS UNO.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT INDICATED. REFER TO ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED.
- CONTRACTOR SHALL SECURE AND PAY COSTS OF ALL PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS ASSOCIATED WITH THEIR WORK.
- PROVIDE SPRINKLER PROTECTION BELOW ALL EXPOSED DUCTS AND OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.
- CONTRACTOR SHALL PROVIDE CAPS AS REQUIRED FOR PHASING OF THE PROJECT AT NO ADDITIONAL COST TO OWNER.
- IN ADDITION TO THOSE SPRINKLERS REQUIRED TO PROVIDE COMPLETE SPRINKLER PROTECTION THROUGHOUT THE BUILDING, INCLUDE AN ADDITIONAL 40 SPRINKLERS INCLUDING ANY NECESSARY PIPING, FITTINGS AND HANGERS REQUIRED TO INSTALL THE SPRINKLERS. THE PURPOSE OF THE ADDITIONAL 40 SPRINKLERS IS TO PROVIDE ENHANCED SPRINKLER PROTECTION IN ANY EXPOSED OR FINISHED AREA AS MAY BE DEEMED NECESSARY BY THE ARCHITECT OR ENGINEER BASED ON FIELD CONDITIONS. SPRINKLERS REQUIRED BELOW DUCTS AND OBSTRUCTIONS ARE NOT INCLUDED IN THE ADDITIONAL 40 SPRINKLERS AS THEY ARE INCLUDED IN THOSE SPRINKLERS REQUIRED TO PROVIDE COMPLETE SPRINKLER PROTECTION THROUGHOUT THE BUILDING.

DESIGN CRITERIA:

- THE SYSTEM AS A WHOLE AND IN ALL DETAILS SHALL CONFORM TO THE STATE AND LOCAL BUILDING CODES, FACTORY MUTUAL AND ALL REFERENCED CODES.
- WATER SUPPLY INFORMATION:

DATE:	11/07/2011, 10:30 am
STATIC:	100 PSI
RESIDUAL:	88 PSI
FLOW:	1750 GPM
LOCATION (FLOW 1):	SECOND ST, FIRST HYDRANT EAST OF FAIRVIEW ST
LOCATION (GAUGED):	JONES RD, FIRST HYDRANT EAST OF THAYER ST
SOURCE:	REGIONAL WATER AUTHORITY

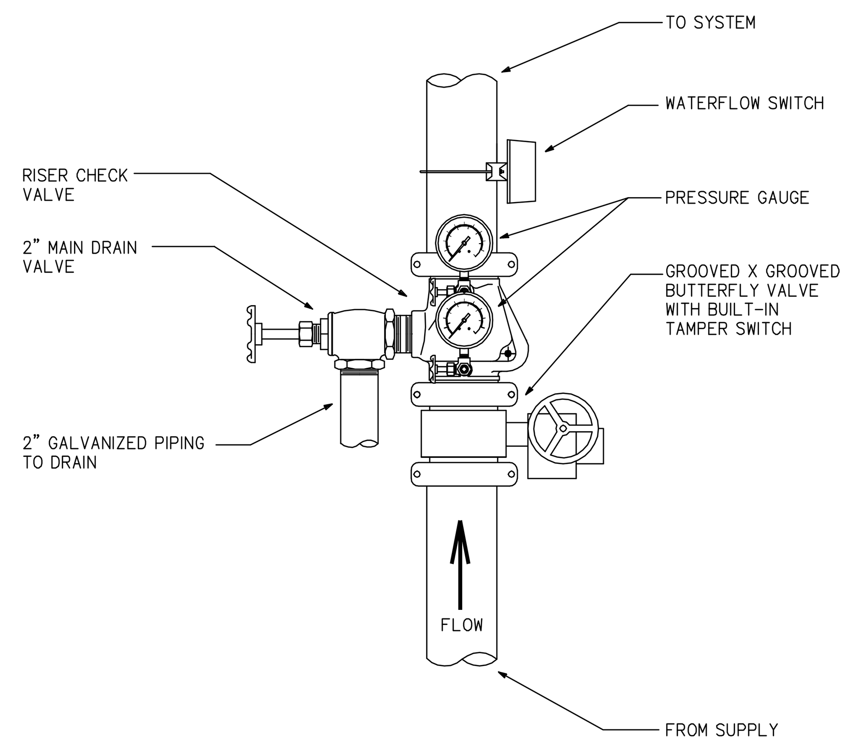
SPRINKLER CONTRACTOR SHALL SUPPLY NEW WATERFLOW DATA (IN WRITING) FOR REVIEW PRIOR TO START OF DESIGN WORK.

- ALL HYDRAULIC CALCULATIONS SHALL INCLUDE A MINIMUM "CUSHION" (GAP) OF 10% (OF EXISTING PSI AT REQUIRED FLOW) BETWEEN REQUIRED AND AVAILABLE WATER SUPPLY.
- AREA OF SPRINKLER OPERATION SELECTED FOR HYDRAULIC CALCULATION SHALL BE THE MINIMUMS LISTED BELOW AND THE MOST HYDRAULICALLY DEMANDING, AND CANNOT INCLUDE ANY UNSPRINKLERED AREAS. ALL SPRINKLERS IN REMOTE AREA MUST OPERATE, INCLUDING "SMALL ROOMS AND CLOSETS". INCREASE AREA OF OPERATION BY 30% FOR DRY AND DOUBLE INTERLOCKED PREACTION TYPE SPRINKLER SYSTEMS.
- IN EACH SYSTEM CALCULATION, TOTAL SPRINKLER DEMAND SHALL BE BROUGHT BACK TO THE FIRE SERVICE CONNECTION AT THE CITY WATER MAIN IN JONES ROAD.
- RESULTS OF EACH CALCULATION SHALL BE PLOTTED ON N^1.85 GRAPH, ALONG WITH WATER SUPPLY INFORMATION.
- HYDRAULIC SUMMARY DATA SHALL BE INCLUDED ON SHOP DRAWINGS, INCLUDING PSI & GPM REQUIRED AND PSI AVAILABLE AT REQUIRED GPM.
- USE OF SPRINKLER SPACING OFF WALL IN EXCESS OF 7'-6" (AS NOTED IN EXCEPTIONS IN NFPA 13) IS NOT PERMITTED.
- FINISHED CEILING AREAS TO HAVE CONCEALED PIPING AND SPRINKLER HEADS. SPRINKLER HEADS TO BE SYMMETRICAL AND LINE-UP WITH ADJACENT CEILING FIXTURES AND LIGHTS. SPRINKLER HEADS SHALL BE CENTERED IN TILES WHERE APPLICABLE (REFER TO DETAIL 6/F-001).
- ALL WET FP PIPING SHALL BE BLACK STEEL. ALL DRY, TEST AND DRAIN PIPE & SHALL FITTING BE GALVANIZED. ALL EXPOSED FP PIPING IN PUBLIC SPACES SHALL BE PAINTED. CUSTOM COLOR TO BE SELECTED BY ARCHITECT.
- ALL CONCEALED SPRINKLER HEAD COVER PLATES SHALL HAVE CUSTOM COLORS, SELECTED BY ARCHITECT.
- SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED BASED ON THE CRITERIA AS INDICATED.
- ANSUL SYSTEM WILL BE PROVIDED BY OTHER.
- REFER TO THE PHASING DOCUMENTS FOR TIMING AND COORDINATION. REFER TO CONTRACT PHASING DOCUMENTS FOR COMPLETE PHASING SEQUENCING. ANY EXISTING FP PIPING INTENDED TO BE REMOVED SHALL BE DONE IN SUCH A WAY TO ENSURE THAT ANY AREAS OCCUPIED AT THAT TIME WILL REMAIN ACTIVE. PROVIDE ANY ADDITIONAL PIPING REQUIRED TO ACCOMPLISH PROPER PHASING.
- THE CONTRACTOR SHALL PROVIDE AT THE END OF EACH PHASE COMPLETE, FUNCTIONAL,TESTED AND FULLY OPERATIONAL SYSTEMS READY FOR USE BY OWNER.
- WHEN EXISTING PIPING, EQUIPMENT, DUCTWORK, CONDUIT ETC. IS REMOVED FROM A WALL, FLOOR OR CEILING THE CONTRACTOR SHALL PROVIDE AN APPROVED FIRE AND SMOKE SEALANT AND SHALL PATCH AS REQUIRED.
- THE CONTRACTOR SHALL COMPLETE THE CONTRACTORS MATERIALS & TEST CERTIFICATES (FM FORMS 85A & 85B) DOCUMENTING MATERIALS USED AND TEST RESULTS.

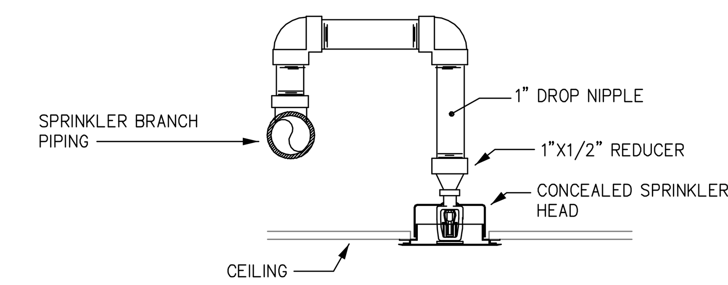
FIRE PROTECTION SYMBOL DESCRIPTION

SYMBOL	DESCRIPTION
	NEW CONCEALED PENDENT SPRINKLER HEAD
	NEW EXPOSED UPRIGHT SPRINKLER HEAD
	NEW SIDEWALL SPRINKLER HEAD
	NEW CONCEALED SPRINKLER AT CEILING & UPRIGHT SPRINKLER ABOVE
	NEW CONCEALED DRY PENDENT SPRINKLER AT CEILING & UPRIGHT SPRINKLER ABOVE
DP	NEW TYPICAL CONCEALED DRY PENDENT SPRINKLER HEAD
	NEW EXPOSED UPRIGHT SPRINKLER HEAD BELOW PLATFORM
D	DRY SIDEWALL SPRINKLER HEAD
	NEW SPRINKLER PIPING
	GALVANIZED DRAIN PIPING
	UNDERGROUND SUPPLY PIPING
	EXISTING SPRINKLER PIPING
—FP—	FIRE PROTECTION SUPPLY PIPING
—ANTI—	ANTI-FREEZE SPRINKLER SYSTEM PIPING
—FDC—	FIRE DEPARTMENT CONNECTION PIPING
—SPK—	SPRINKLER PIPING
	ELBOW UP OR DOWN
	PIPING / RISER UP
	BOTTOM TAP
	TOP TAP
	CONTROL VALVE WITH TAMPER SWITCH
	WATERFLOW SWITCH
	CHECK VALVE
	DIRECTIONAL WATERFLOW INDICATOR
	SPRINKLER CONTROL ASSEMBLY IN CABINET
	EXPOSED SPRINKLER CONTROL ASSEMBLY
	DRY PIPE VALVE ASSEMBLY
	RISER CHECK VALVE ASSEMBLY
	DRAIN VALVE
	SPRINKLER ZONE DESIGNATION LINE
	DENOTES DRAWING MATCHLINE
7	HYDRAULIC REFERENCE POINT
ABD	AUTO BALL DRIP
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AUX	AUXILIARY
₵	CENTERLINE
CLDI	CEMENT LINED DUCTILE IRON
DN	DOWN
DWG	DRAWING
FDC	FIRE DEPARTMENT CONNECTION
FP	FIRE PROTECTION
FS	FLOW SWITCH
SCA	SPRINKLER CONTROL ASSEMBLY
SPK	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
ELEV.	ELEVATOR
FFD	FUNNEL FLOOR DRAIN

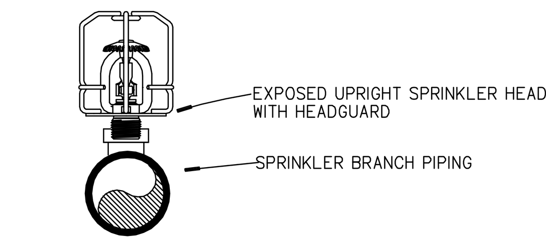
HAZARD CLASS	DESCRIPTION	HYDRAULIC DESIGN DENSITY	MAX. SPACING PER SPKLER HEAD	SYSTEM TYPE
LIGHT	OFFICES, CLASSROOMS, LOBBIES, CAFETERIA SEATING AREA, CORRIDORS, RESTROOMS, ETC.	0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT +250 GPM HOSE DEMAND.	225 SQ. FT.	WET
LIGHT	CANOPY	0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT +250 GPM HOSE DEMAND.	225 SQ. FT.	DRY
ORDINARY GROUP I	MECHANICAL, ELECTRICAL, & TELEPHONE ROOMS, EQUIPMENT ROOMS, MULTI-FUNCTION ROOMS, ETC.	0.20 GPM/SQ. FT. OVER THE MOST REMOTE 2500 SQ. FT +500 GPM HOSE DEMAND.	130 SQ. FT.	WET
ORDINARY GROUP II	GENERAL STORAGE, SHIPPING & RECEIVING, MAIL ROOM, COPY ROOM & ALL SHOP AREAS (I.E. PLUMBING, ELECTRICAL, CARPENTRY, ETC.), LABS, ETC.	0.20 GPM/SQ. FT. OVER THE MOST REMOTE 2500 SQ. FT. +500 GPM HOSE DEMAND	100 SQ. FT.	WET
ORDINARY GROUP II	AUTOMOTIVE REPAIR	0.30 GPM/SQ. FT. OVER THE MOST REMOTE 2500 SQ. FT. +500 GPM HOSE DEMAND	100 SQ. FT.	WET



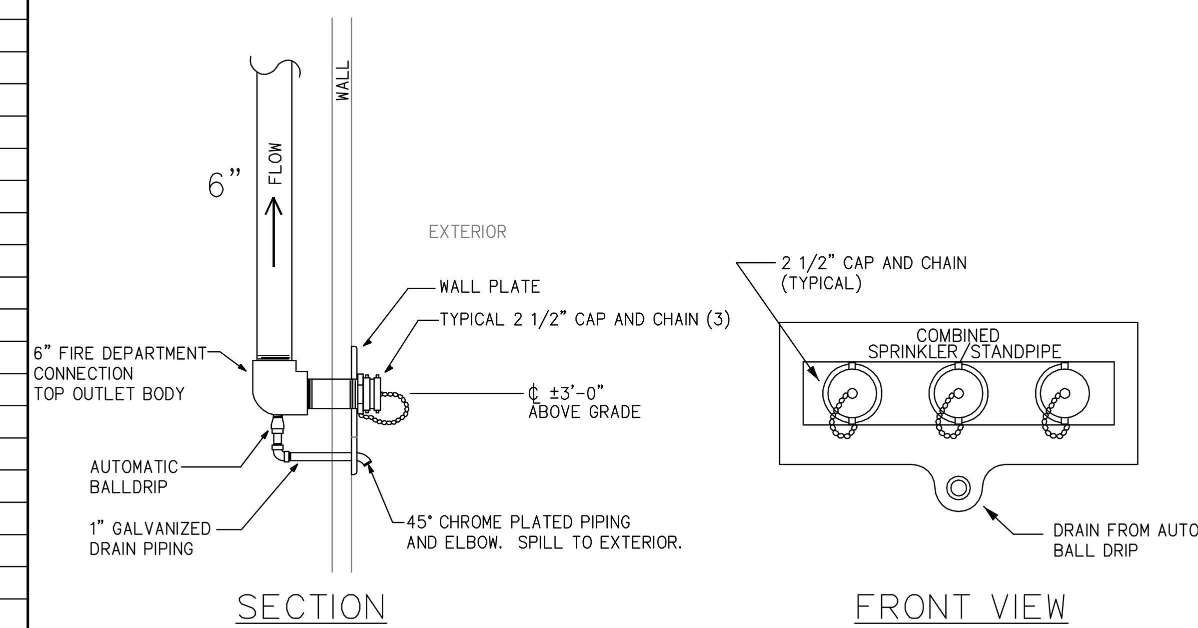
1 F-001 6" RISER CHECK VALVE ASSEMBLY
NOT TO SCALE



2 F-001 TYPICAL CONCEALED PENDENT SPRINKLER HEAD ON RETURN BEND
NOT TO SCALE



3 F-001 TYPICAL EXPOSED UPRIGHT SPRINKLER WITH HEADGUARD
NOT TO SCALE



4 F-001 FIRE DEPARTMENT CONNECTION
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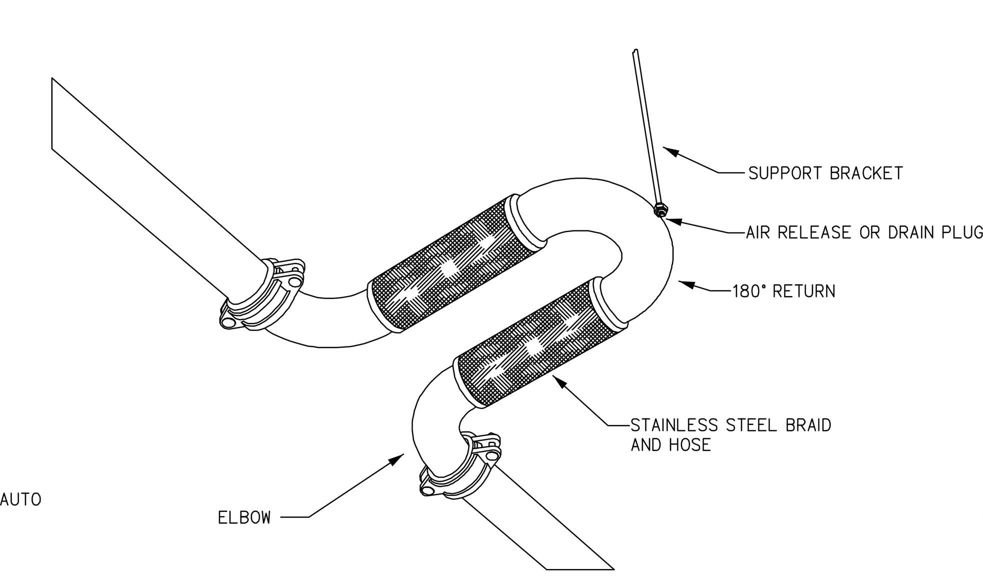

5 F-001 METROFLEX FIRELOOP SEISMIC EXPANSION JOINT
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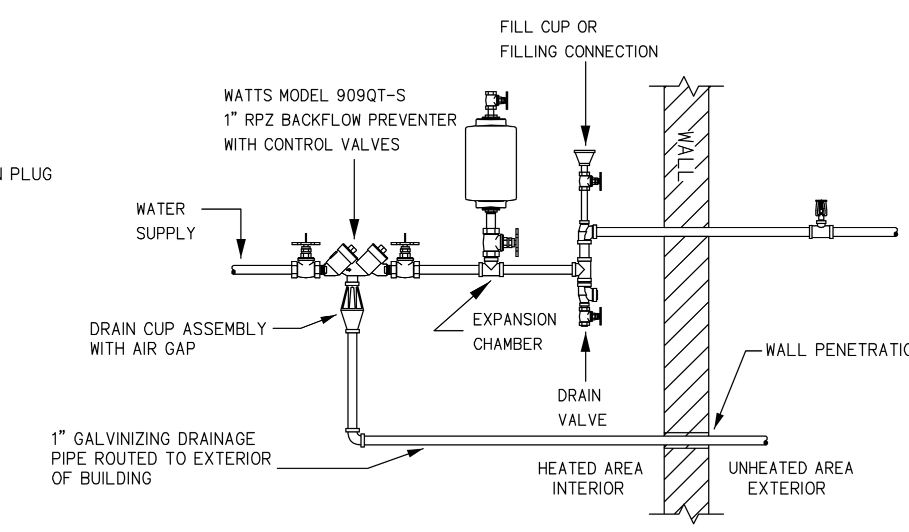
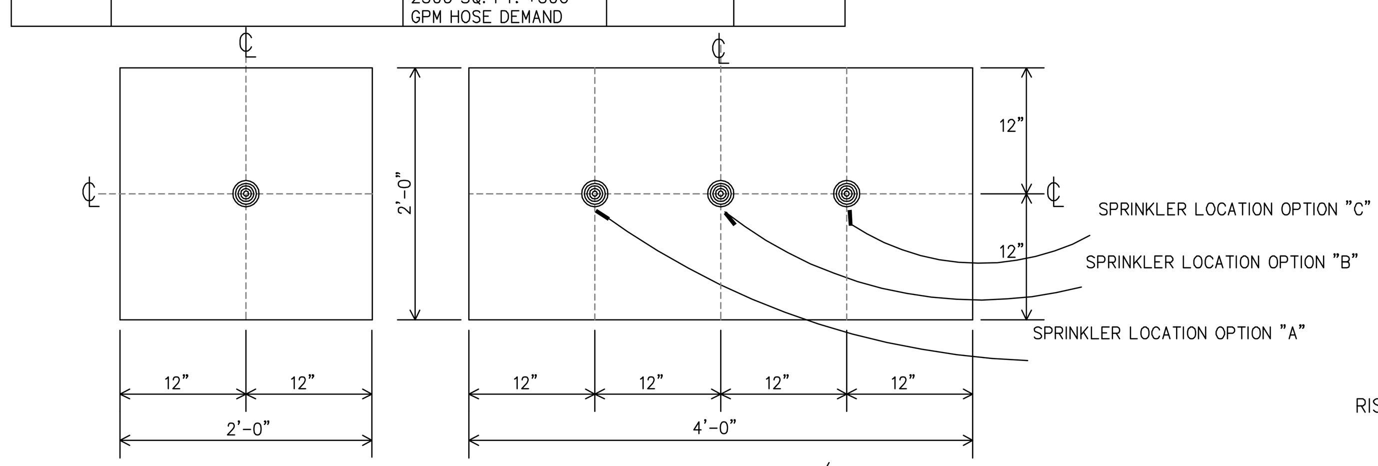
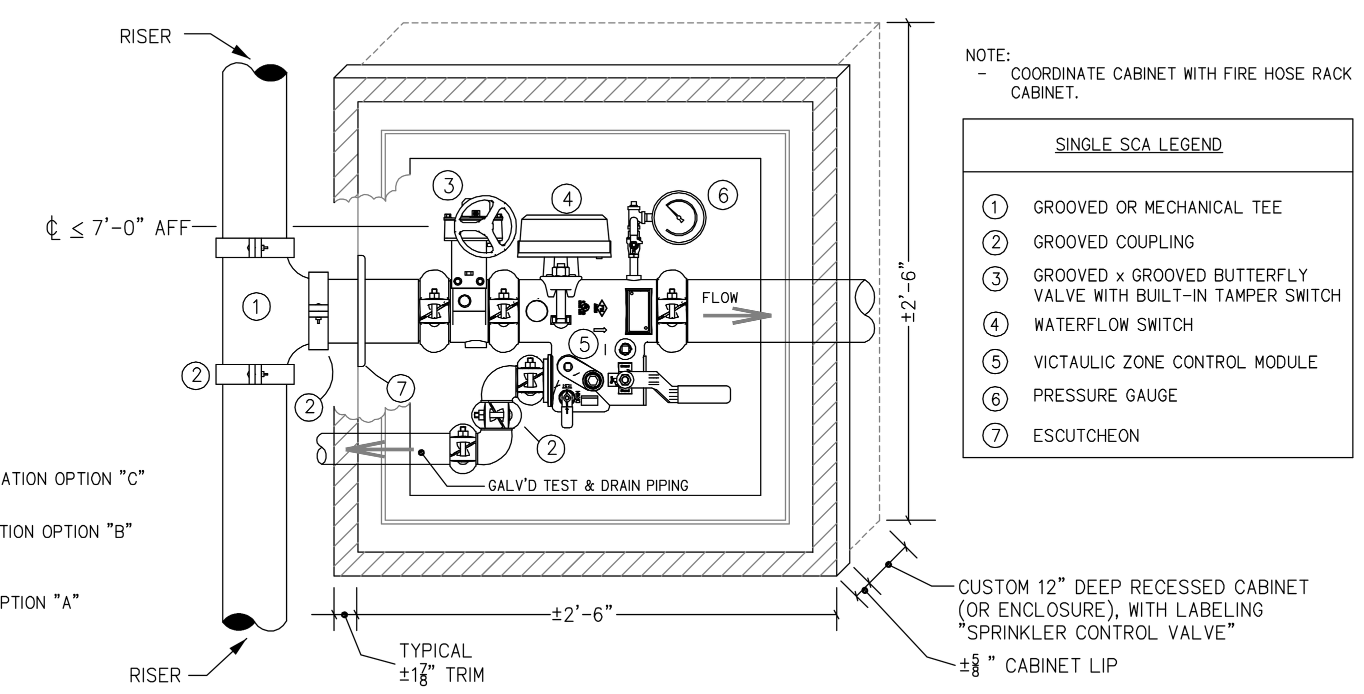


8 F-001 ARRANGEMENT FOR ANTIFREEZE SUPPLY PIPING AND VALVES
NOT TO SCALE
SERVING DUST COLLECTOR (REFER TO DWG F-102.2)



6 F-001 TYPICAL CEILING TILE/ SPRINKLER HEAD LOCATIONS
NOT TO SCALE

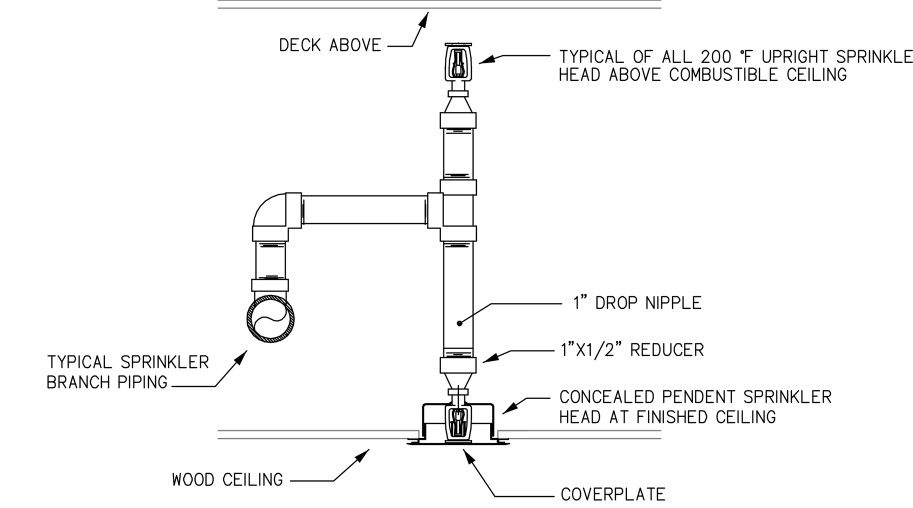


NOTE:
- COORDINATE CABINET WITH FIRE HOSE RACK CABINET.

SINGLE SCA LEGEND

1. GROOVED OR MECHANICAL TEE
2. GROOVED COUPLING
3. GROOVED x GROOVED BUTTERFLY VALVE WITH BUILT-IN TAMPER SWITCH
4. WATERFLOW SWITCH
5. VICTAULIC ZONE CONTROL MODULE
6. PRESSURE GAUGE
7. ESCUTCHEON

7 F-001 SPRINKLER CONTROL ASSEMBLY (SCA)
NOT TO SCALE



9 F-001 TYPICAL CONCEALED-TYPE SPRINKLER HEAD AT FINISHED CEILING AND UPRIGHT SPRINKLER IN COMBUSTIBLE CONCEALED SPACE ABOVE
NOT TO SCALE

FIRE PROTECTION DRAWING INDEX

DWG #	DESCRIPTION	CAD #	DWG #	DESCRIPTION	CAD #
F-001	NOTES & DETAILS - FIRE PROTECTION	0451FD1	F-102.1	AREA B1 MAIN LEVEL - FIRE PROTECTION	045116F
F-002	RISER, DETAILS & ZONING PLAN - FIRE PROTECTION	0451FD2	F-102.2	AREA B2 MAIN LEVEL - FIRE PROTECTION	045117F
F-003	SITE PLAN & DETAILS - FIRE PROTECTION	0451FD3	F-003.1	AREA C1 TUNNEL PLAN - FIRE PROTECTION	045108F
F-001.1	AREA A1 TUNNEL PLAN - FIRE PROTECTION	045105F	F-103.1	AREA C1 MAIN LEVEL - FIRE PROTECTION	045118F
F-001.2	AREA A2 TUNNEL PLAN - FIRE PROTECTION	045103F	F-103.2	AREA C2 MAIN LEVEL - FIRE PROTECTION	045119F
F-101.1	AREA A1 MAIN LEVEL - FIRE PROTECTION	045115F	F-103.3	AREA C3 MAIN LEVEL - FIRE PROTECTION	045110F
F-101.2	AREA A2 MAIN LEVEL - FIRE PROTECTION	045113F	F-104.1	AREA D1 MAIN LEVEL - FIRE PROTECTION	045112F
F-101.3	AREA A1 UPPER LEVEL - FIRE PROTECTION	045125F	F-104.2	AREA D2 MAIN LEVEL - FIRE PROTECTION	045111F
F-101.4	AREA A2 UPPER LEVEL - FIRE PROTECTION	045123F	F-104.3	AREA D1 UPPER LEVEL - FIRE PROTECTION	045122F
F-002.1	AREA B1 TUNNEL PLAN - FIRE PROTECTION	045106F	F-105.1	AREA E MAIN LEVEL - FIRE PROTECTION	045114F
F-002.2	AREA B2 TUNNEL PLAN - FIRE PROTECTION	045107F	F-105.2	AREA E UPPER LEVEL - FIRE PROTECTION	045124F

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature: STATE OF CONNECTICUT PHILIP C. STEINER No. 22271 LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title: NOTES & DETAILS FIRE PROTECTION

REVISIONS

Mark	Date	Description

CAD No. 0451FD1

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By DL
Approved By
Drawing No. F-001

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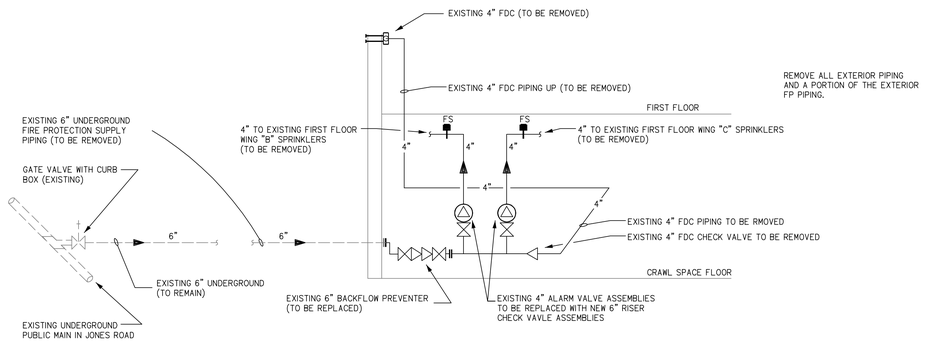
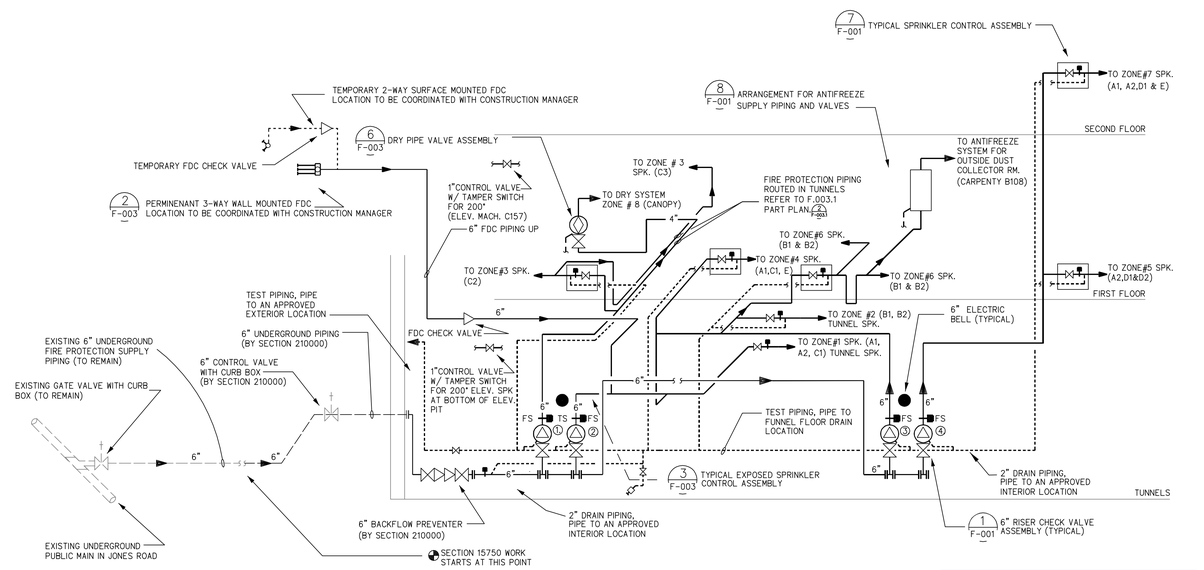
FILE:0451FD1 REV: 06/22/12 11:32



1 F-002 EXISTING RISER DIAGRAM

NOT TO SCALE



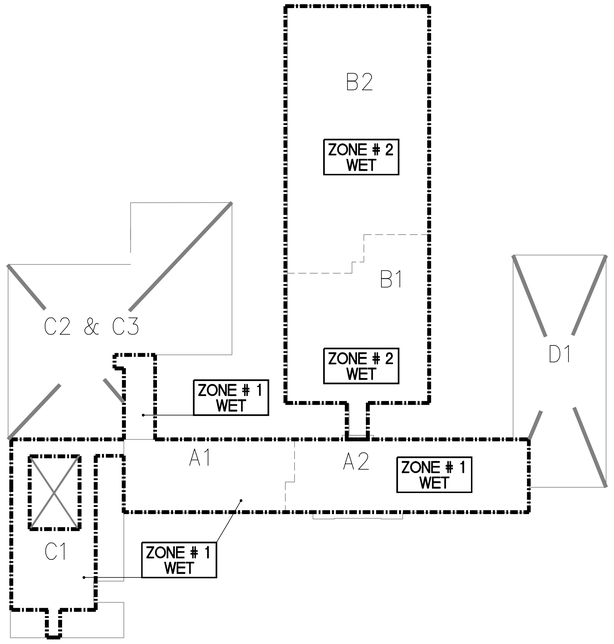
2 F-002 NEW RISER DIAGRAM

NOT TO SCALE

1. TO ZONE #3 SPRINKLER CONTROL ASSEMBLY & ZONE #8 DRY PIPE VALVE ASSEMBLY
2. TO ZONES #1 & #4 SPRINKLER CONTROL ASSEMBLIES
3. TO ZONES #2 & #6 SPRINKLER CONTROL ASSEMBLIES
4. TO ZONES #5 & #7 SPRINKLER CONTROL ASSEMBLIES

7 F-001 TYPICAL SPRINKLER CONTROL ASSEMBLY

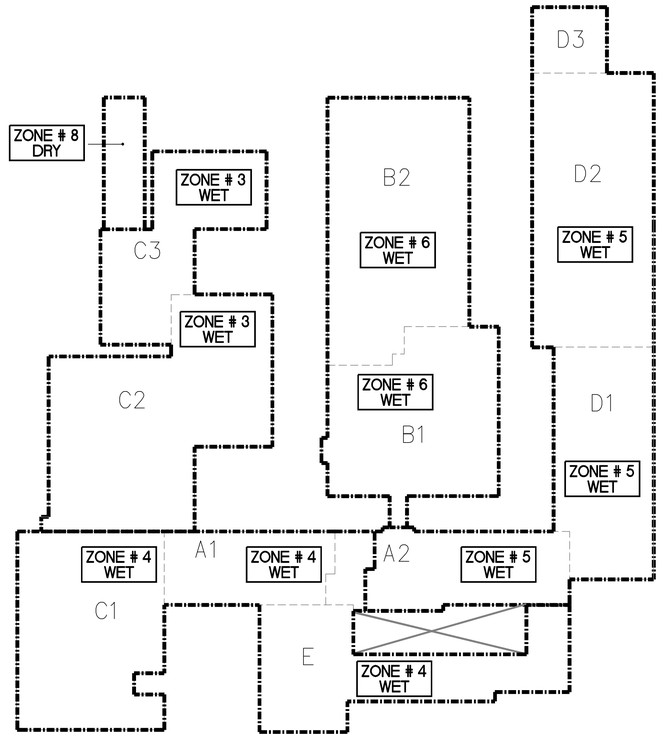
2 F-003 TYPICAL DRY PIPE VALVE ASSEMBLY



TUNNEL SPRINKLER ZONES

SCALE: NOT TO SCALE

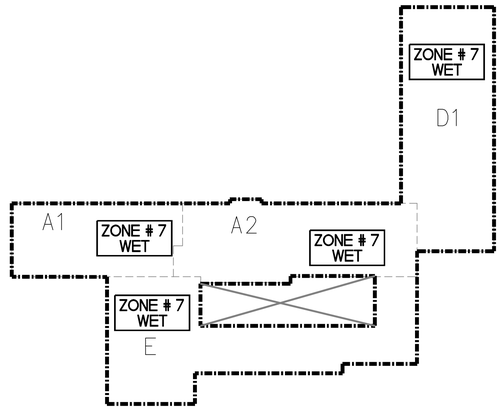
NORTH



MAIN FLOOR SPRINKLER ZONES

SCALE: NOT TO SCALE

NORTH



UPPER FLOOR SPRINKLER ZONES

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: RISER, DETAILS & ZONING PLAN FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, PAUL C. RIZZO, No. 22011, LICENSED PROFESSIONAL ENGINEER — ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
CAD No. 04517D2		Project No. BI-RT-837

Date: 06-18-2012
Scale: AS NOTED
Drawn By: CS
Approved By:
Drawing No. F-002

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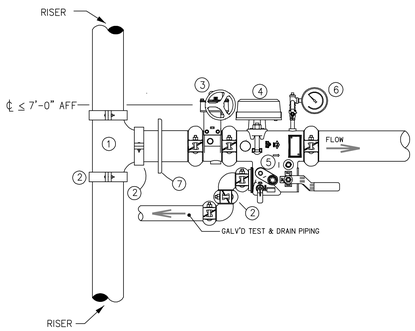
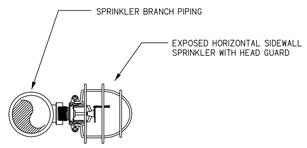


SINGLE SCA LEGEND	
1	GROOVED OR MECHANICAL TEE
2	GROOVED COUPLING
3	GROOVED x GROOVED BUTTERFLY VALVE WITH BUILT-IN TAMPER SWITCH
4	WATERFLOW SWITCH
5	VICTAULIC ZONE CONTROL MODULE
6	PRESSURE GAUGE
7	ESCUTCHEON

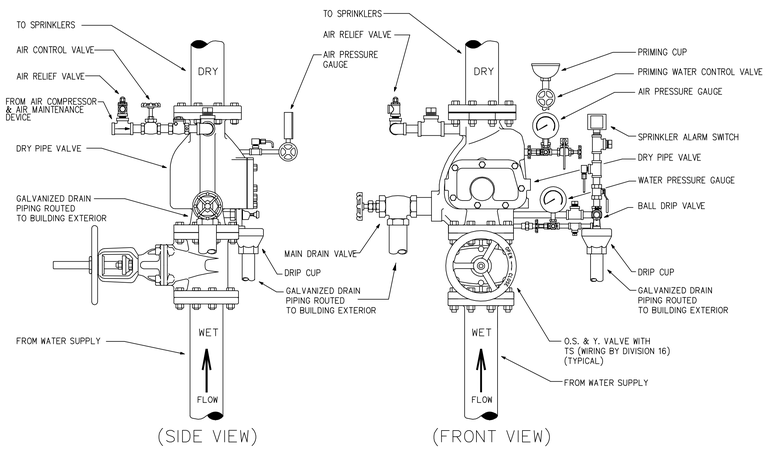
3 / F-003 TYPICAL EXPOSED SPRINKLER CONTROL ASSEMBLY (SCA)

NOT TO SCALE



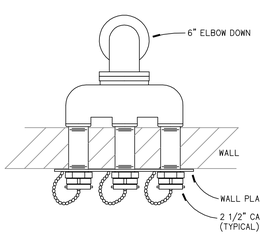
4 / F-003 TYPICAL SIDEWALL SPRINKLER HEAD WITH HEAD GUARD

NOT TO SCALE



6 / F-003 DRY PIPE VALVE ASSEMBLY

NOT TO SCALE



2 / F 003 3-WAY FIRE DEPARTMENT CONNECTION

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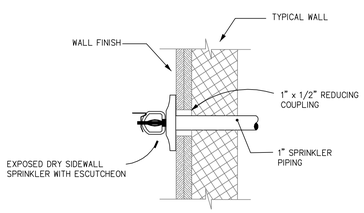
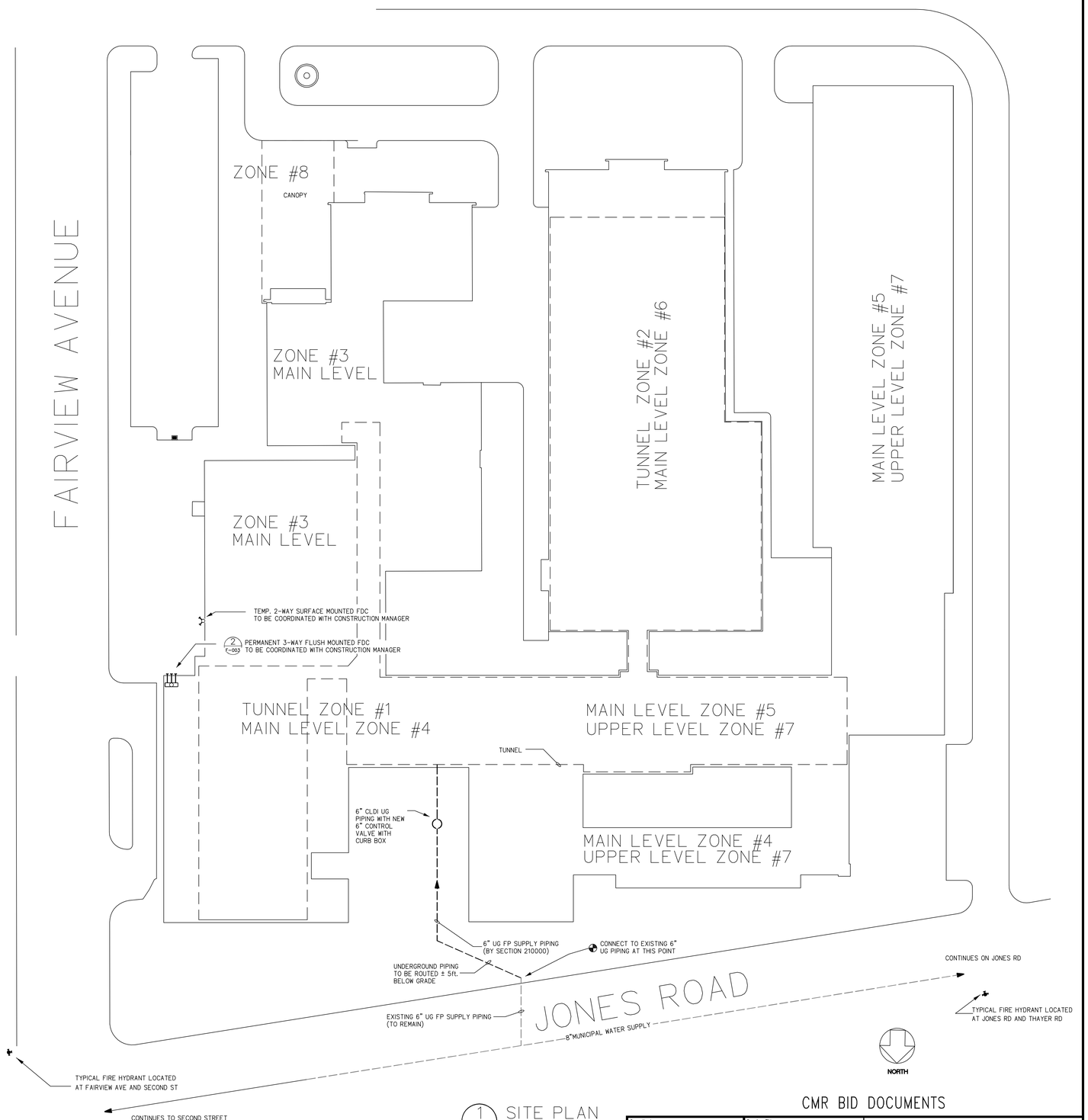


5 / F-003 TYPICAL EXPOSED DRY SIDEWALL SPRINKLER HEAD

NOT TO SCALE



1 / F-003 SITE PLAN

NOT TO SCALE

NOTE:
COORDINATE WITH CONSTRUCTION MANAGER FOR FINAL LOCATION OF TEMPORARY AND PERMANANT FDC LOCATION.

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5318 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT · PHILIP C. BYRNE · No. 20818 · LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
SITE PLAN & DETAILS
FIRE PROTECTION

REVISIONS

Mark	Date	Description

CAD No. 04517D3

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. B1-RT-837

Date 06-18-2012
Scale AS NOTED
Drawn By MHZ
Approved By DL/SW
Drawing No. F-003

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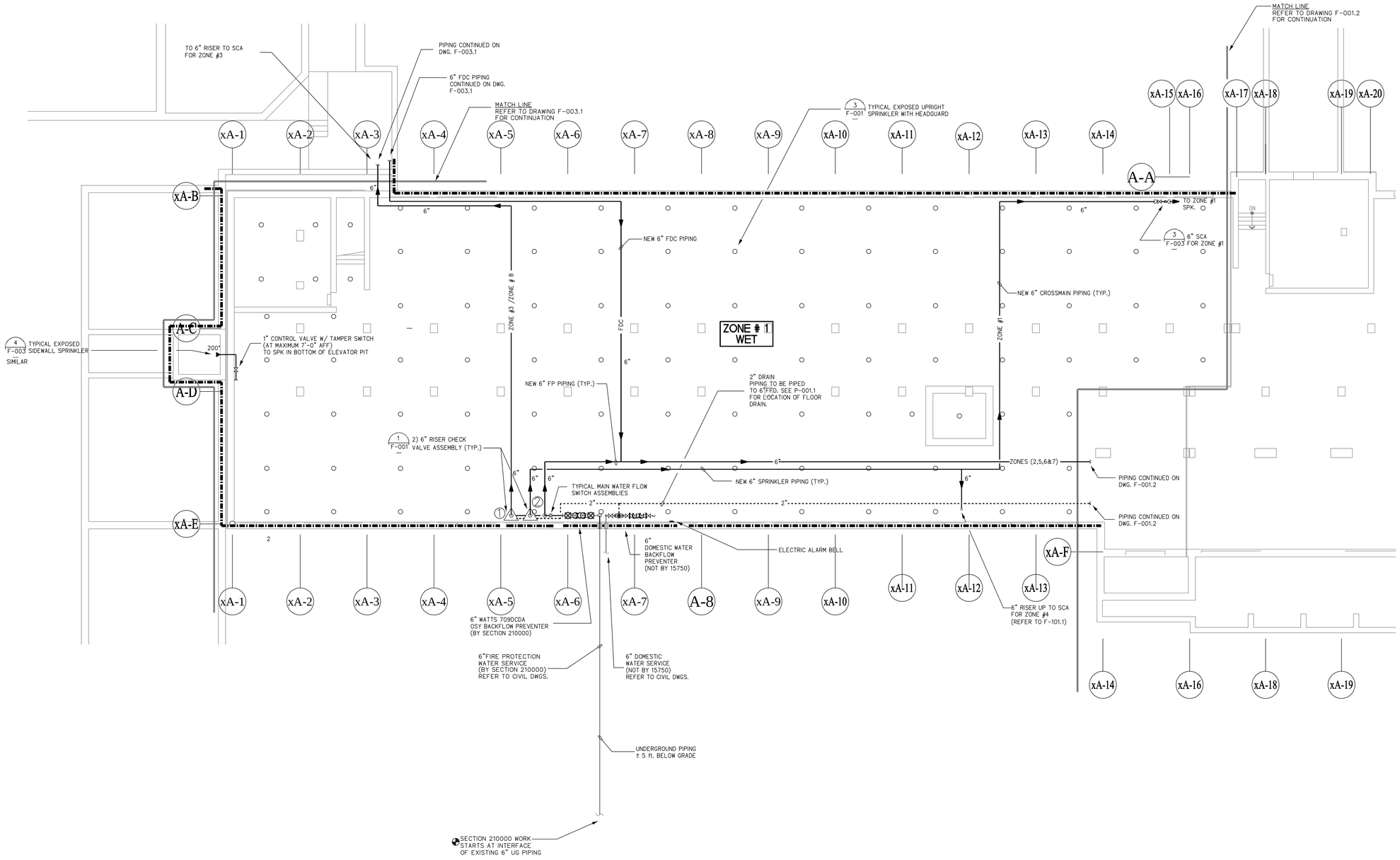

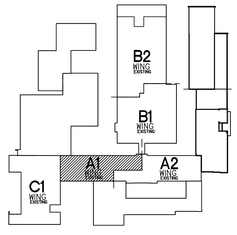

TUNNEL LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA A1 TUNNEL PLAN FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045105F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MHZ
Approved By	DL/SW
Drawing No.	F-001.1

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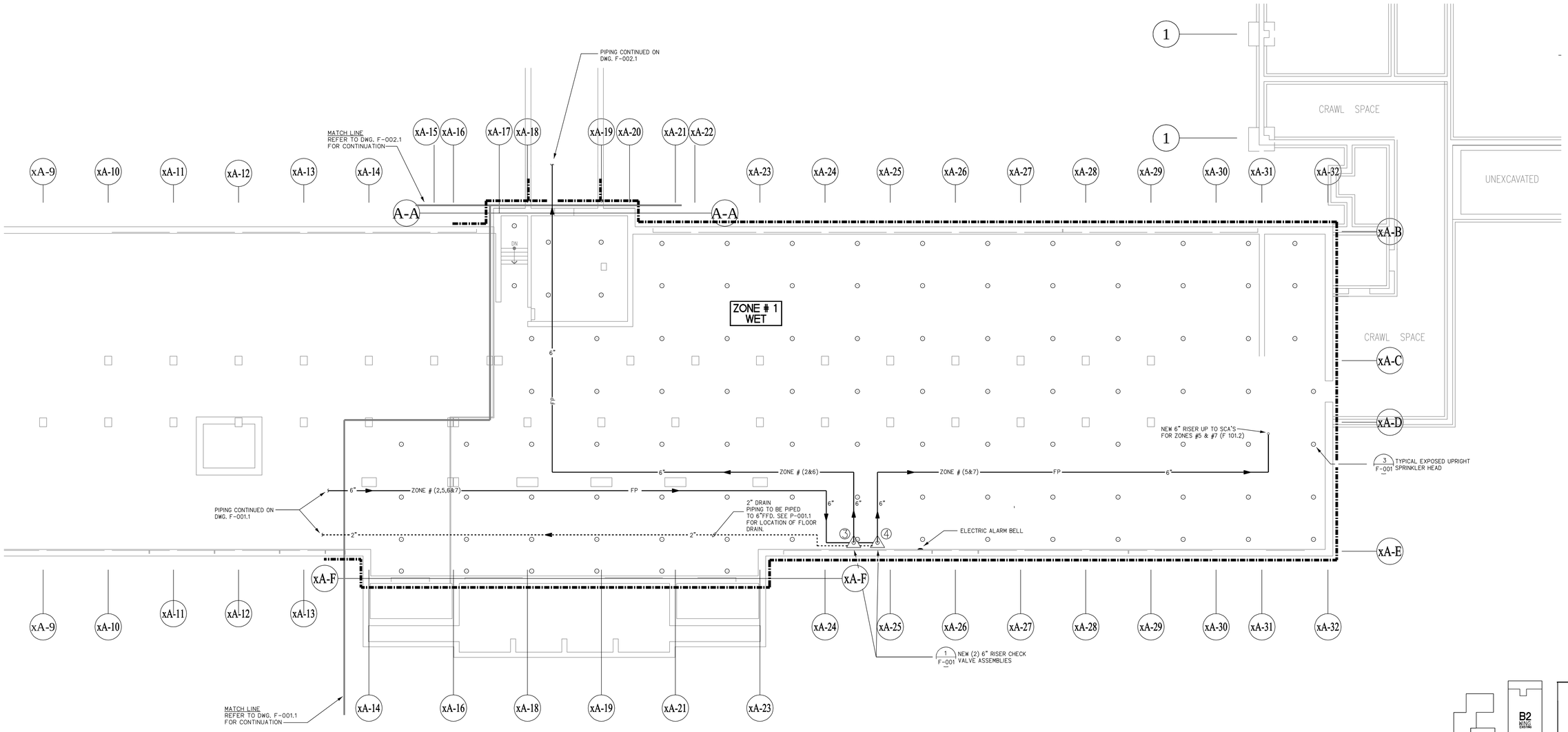

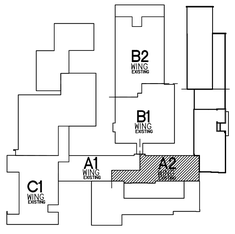

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeboriWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA A2 TUNNEL PLAN FIRE PROTECTION	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, STEVEN C. BETANCOURT, No. 22079, LICENSED PROFESSIONAL ENGINEER	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045103F	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MHZ
Approved By: DL/SW
Drawing No. F-001.2

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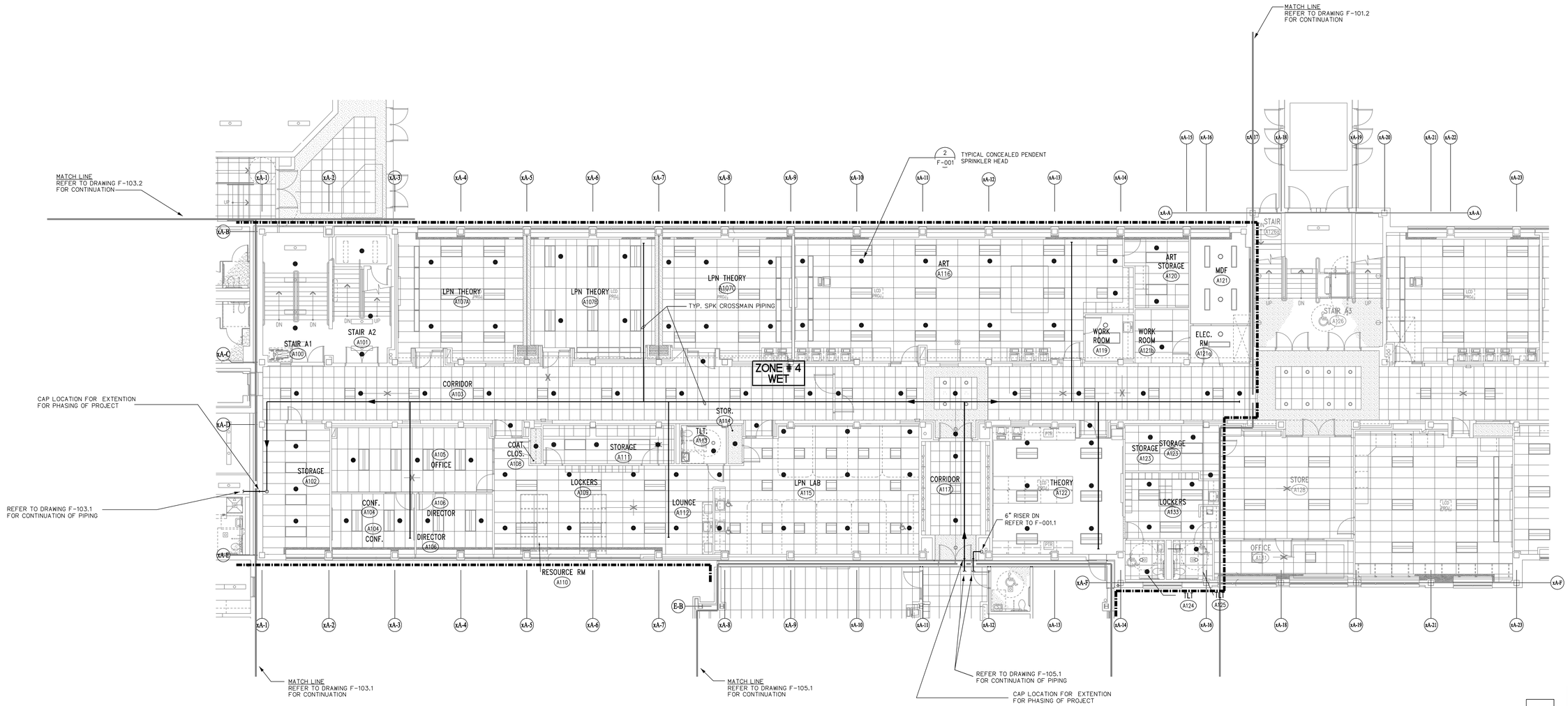

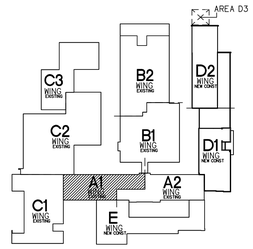

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA A1 MAIN LEVEL FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045115F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MHZ
Approved By	DL/SM
Drawing No.	F-101.1

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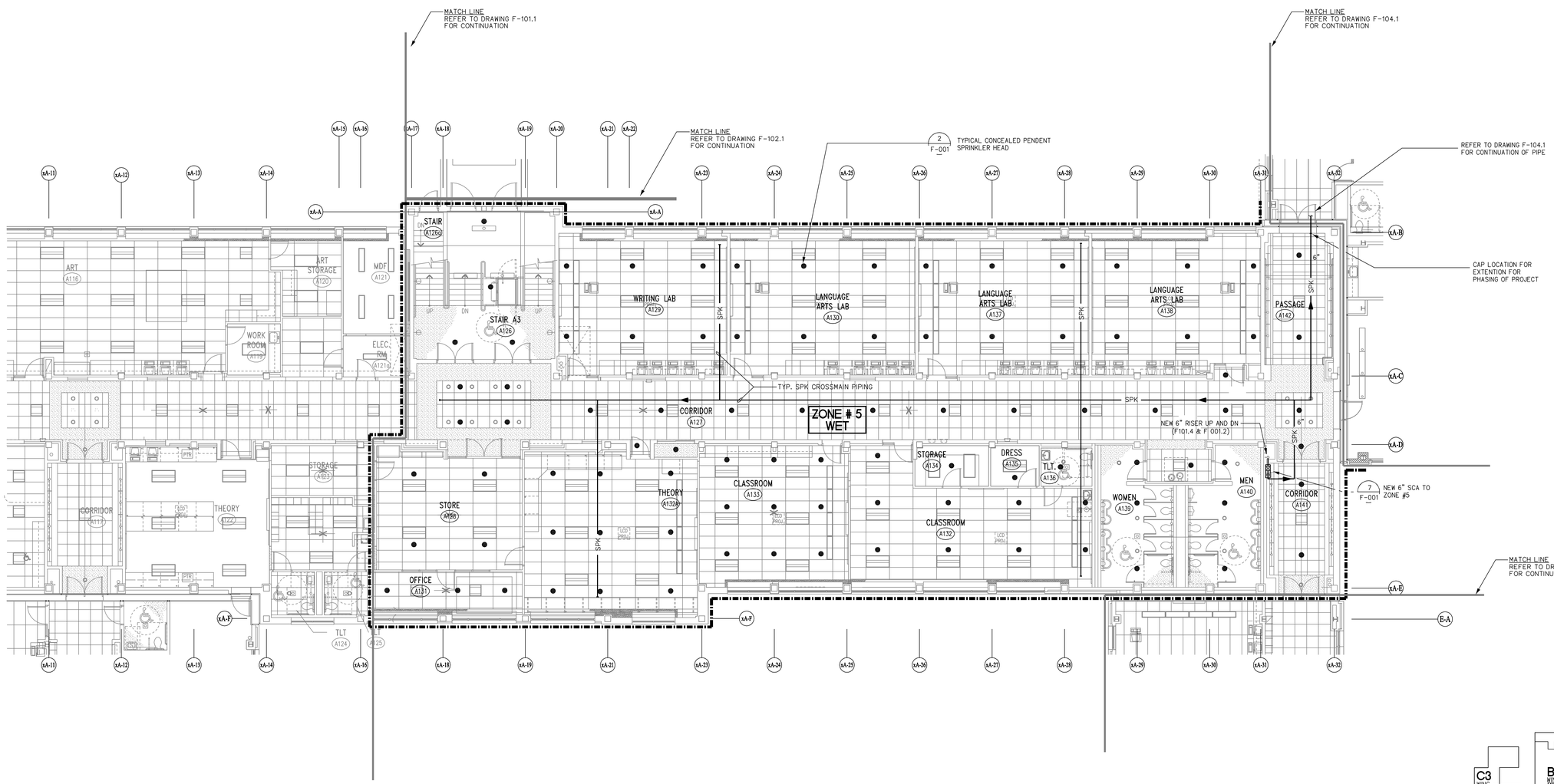

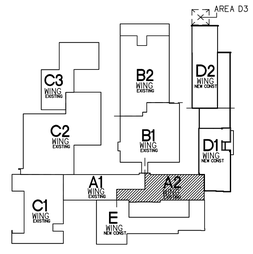

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA A2 MAIN LEVEL FIRE PROTECTION REVISIONS	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045113F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MHZ
Approved By	DL/SW
Drawing No.	F-101.2

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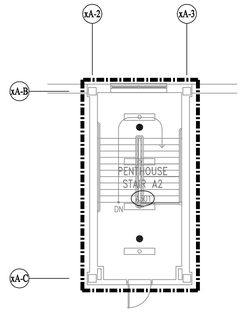

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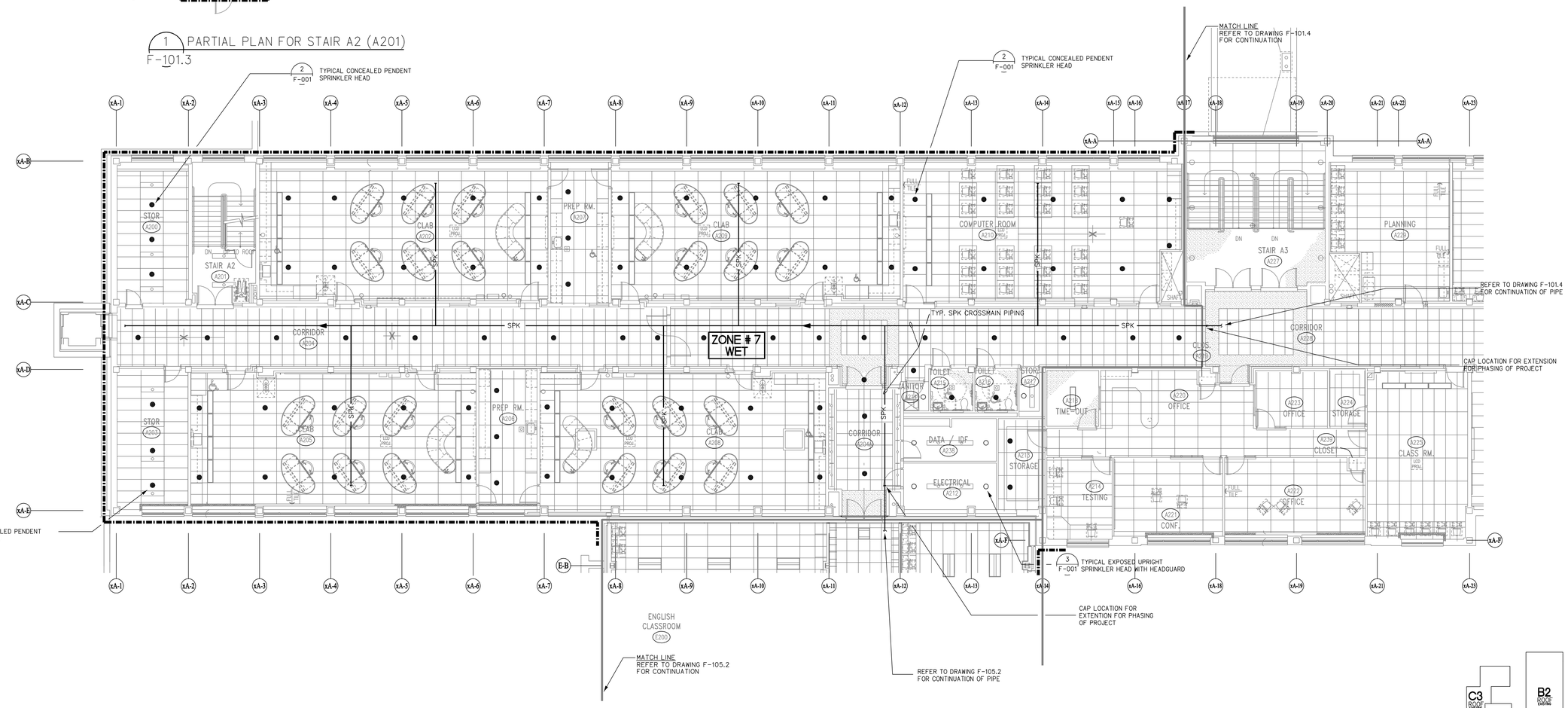
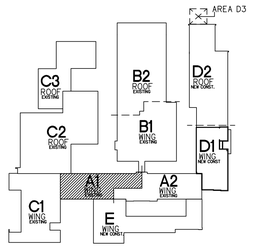
F-101.3





UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A1 UPPER LEVEL FIRE PROTECTION REVISIONS	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22018 ORIGINAL SEAL AND SIGNATURE IS BLUE	Mark / Date / Description CAD No. 045125F	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604 Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514 Project No. B1-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MHZ
Approved By	DL/SW
Drawing No.	F-101.3

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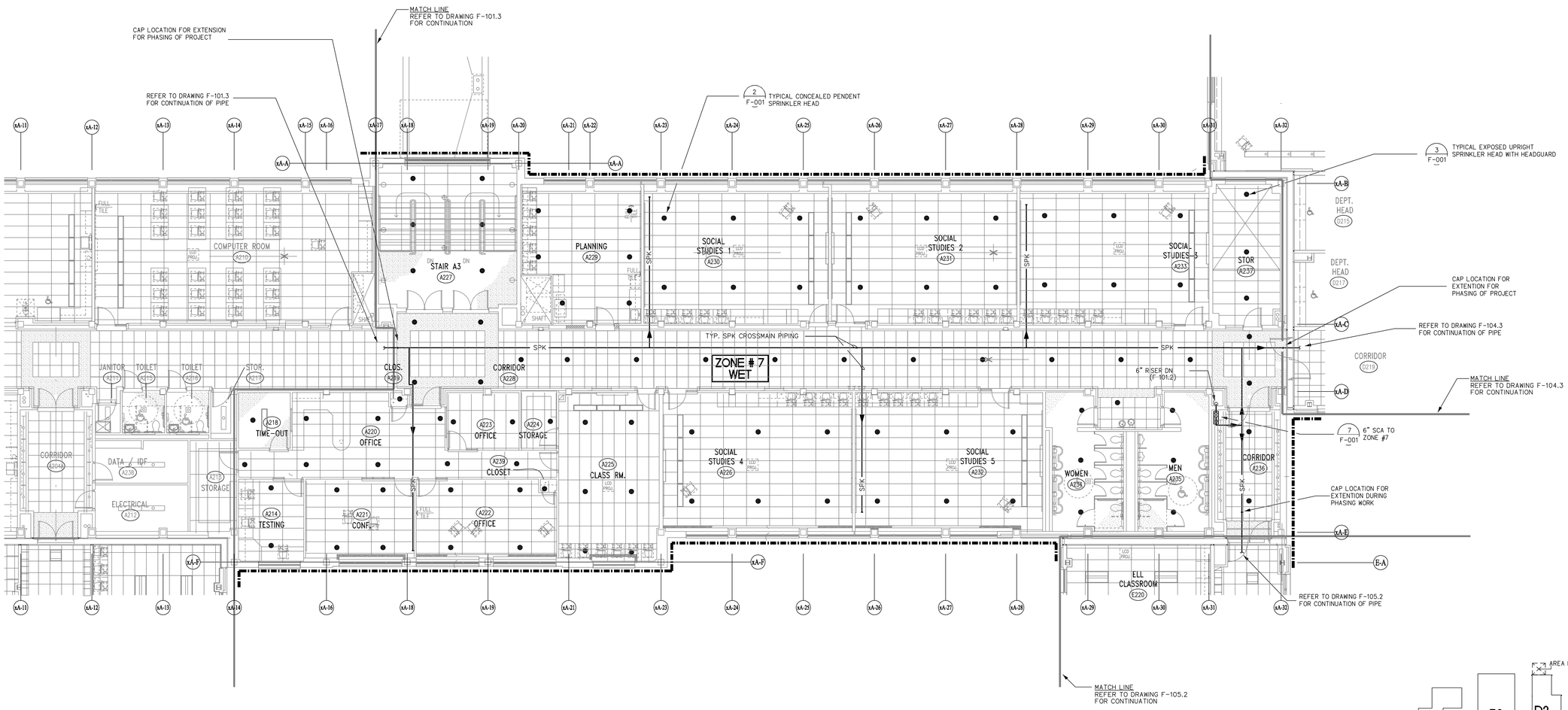

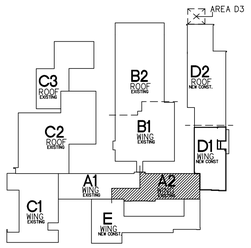

UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5538 fx: 203-866-5243	Drawing Title AREA A2 UPPER LEVEL FIRE PROTECTION REVISIONS	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045123F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MHZ
Approved By	DL/SW
Drawing No.	F-101.4

FILE:045123g REV:04/26/2012 15:10
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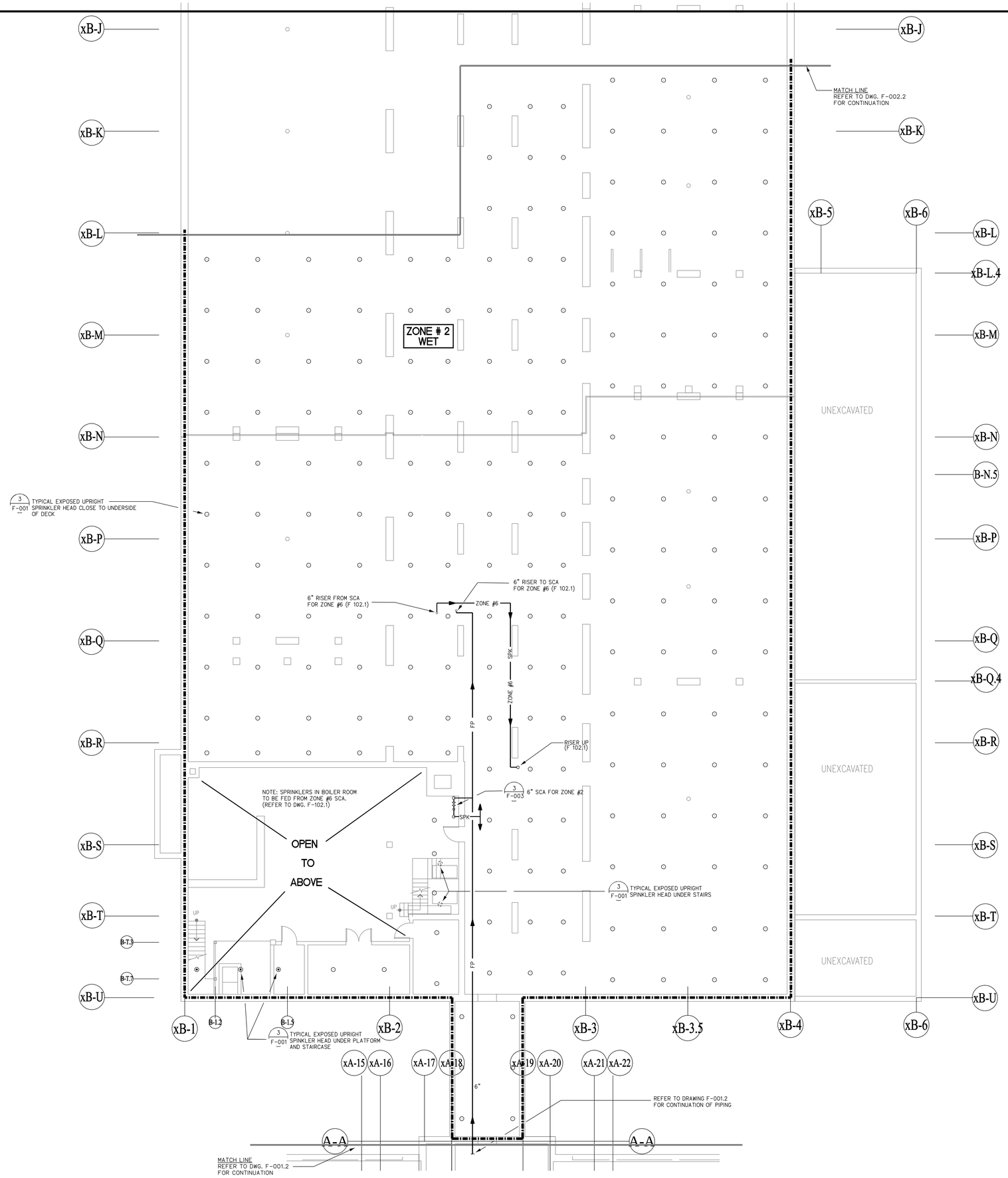

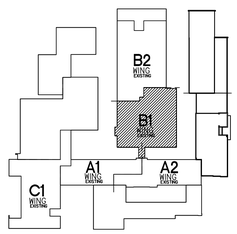

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA B1 TUNNEL PLAN FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22211 ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
CAD No. 045106F	Project No. B1-RT-B37	Date 06-18-2012 Scale 1/8"=1'-0" Drawn By MHZ Approved By DL/SW Drawing No. F-002.1

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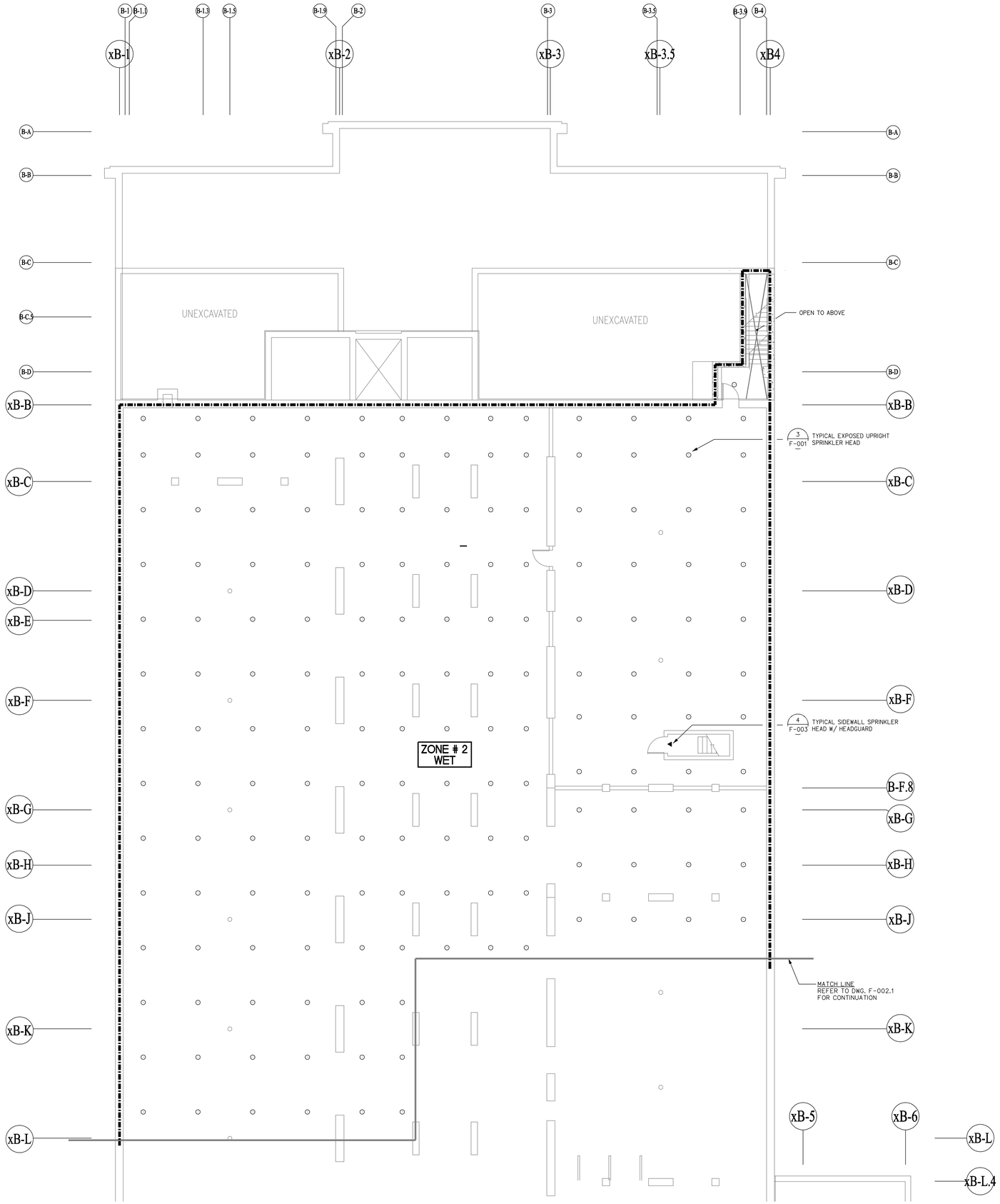

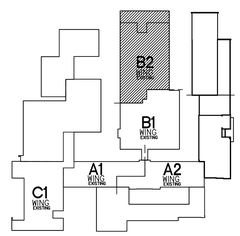

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA B2 TUNNEL PLAN FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature STATE OF CONNECTICUT DAVID L. SEBOR No. 22077 LICENSED PROFESSIONAL ENGINEER ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045107F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date	06-18-2012
Scale	1/8"=1'-0"
Drawn By	MH2
Approved By	DL/SW
Drawing No.	F-002.2

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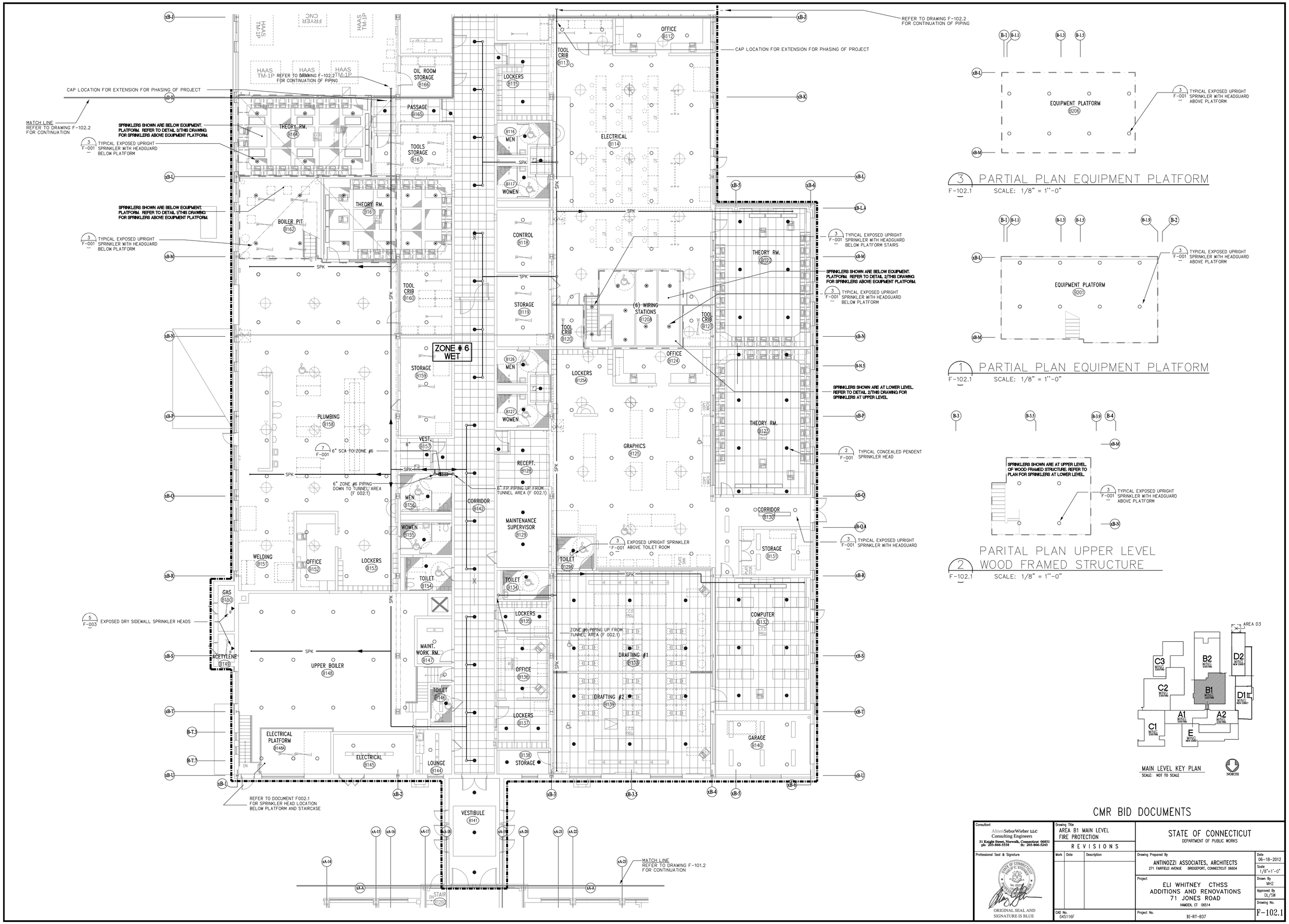
FILE:045107bg



CMR BID DOCUMENTS

Consultant: AlfieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-5243	Drawing Title: AREA B1 MAIN LEVEL FIRE PROTECTION	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: STATE OF CONNECTICUT, DAVID C. DYKSTRA, No. 22275, LICENSED PROFESSIONAL ENGINEER	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604 — Date: 06-18-2012
ORIGINAL SEAL AND SIGNATURE IS BLUE	CAD No. 045116F	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514 — Scale: 1/8"=1'-0"
		Project No. B1-RT-837 — Drawn By: MHZ; Approved By: DL/SW
		Drawing No. F-102.1

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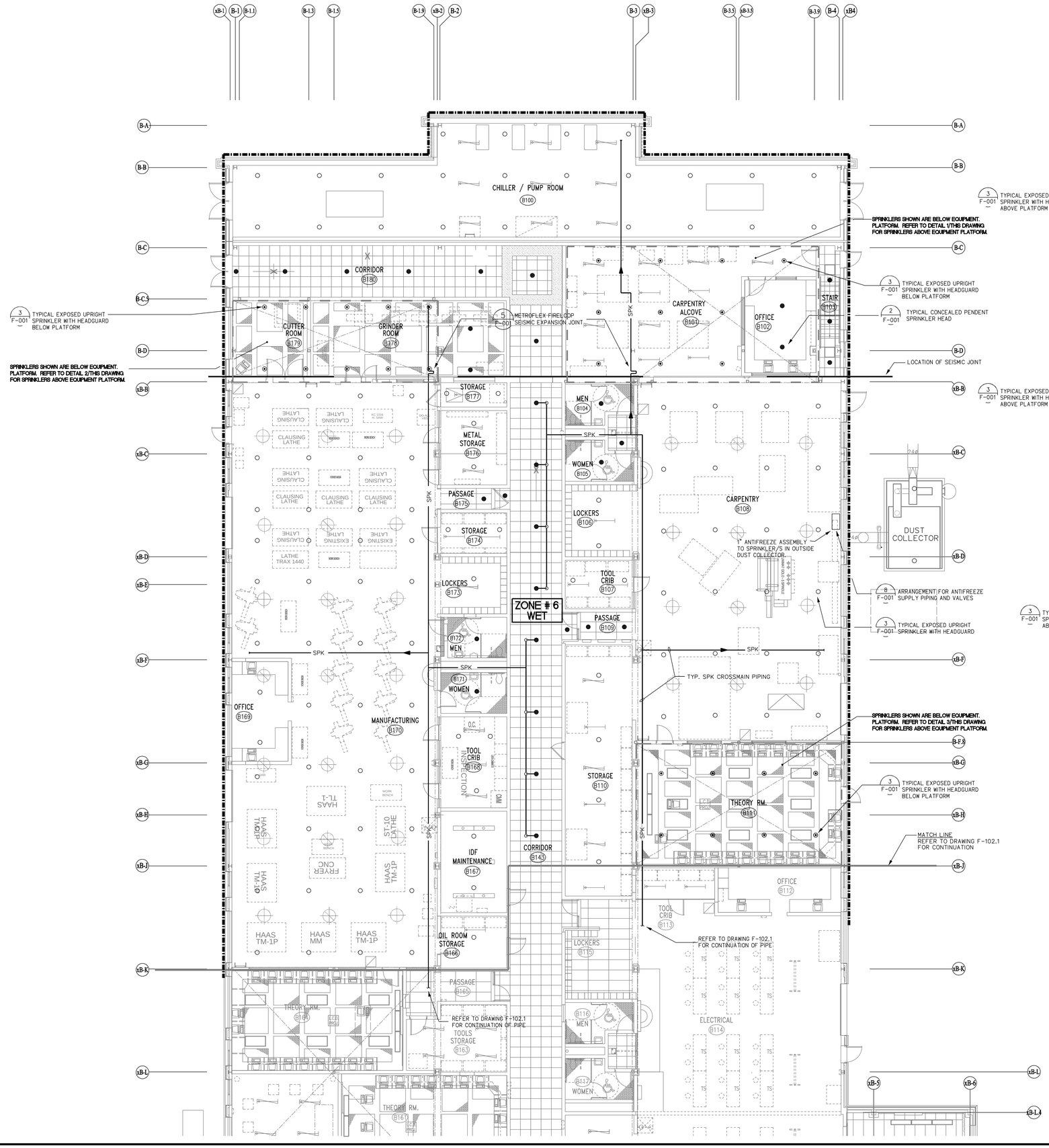
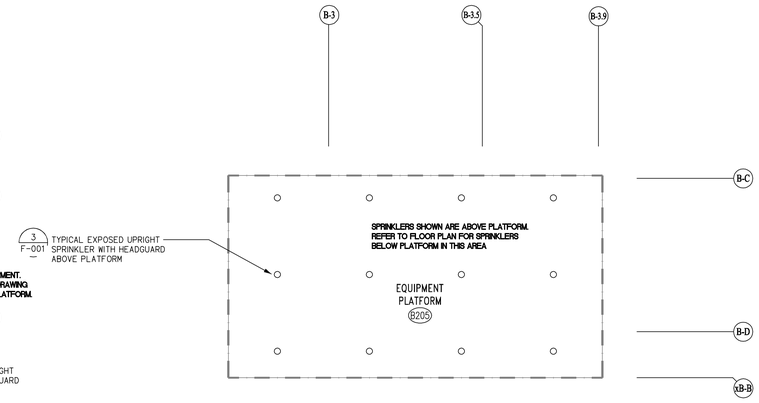
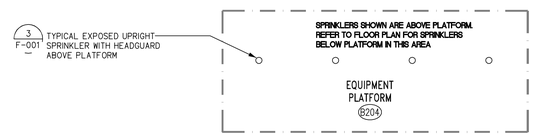




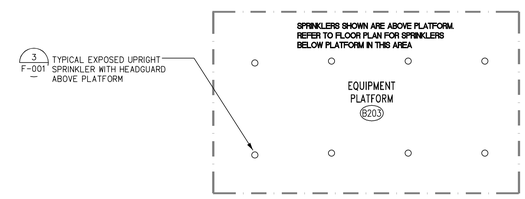
1 F202.2 PARTIAL PLAN – STORAGE PLATFORM

SCALE: 1/8" = 1'-0"



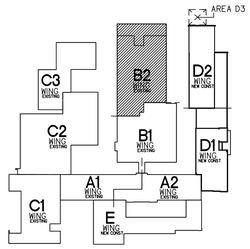
2 F202.2 PARTIAL PLAN – STORAGE PLATFORM

SCALE: 1/8" = 1'-0"



3 F202.2 PARTIAL PLAN – STORAGE PLATFORM

SCALE: 1/8" = 1'-0"



MAIN LEVEL KEY PLAN

SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338 fx: 203-866-5243	Drawing Title: AREA B2 MAIN LEVEL FIRE PROTECTION	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045117F	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. B1-RT-B37

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MHZ
Approved By: DL/SW
Drawing No. F-102.2

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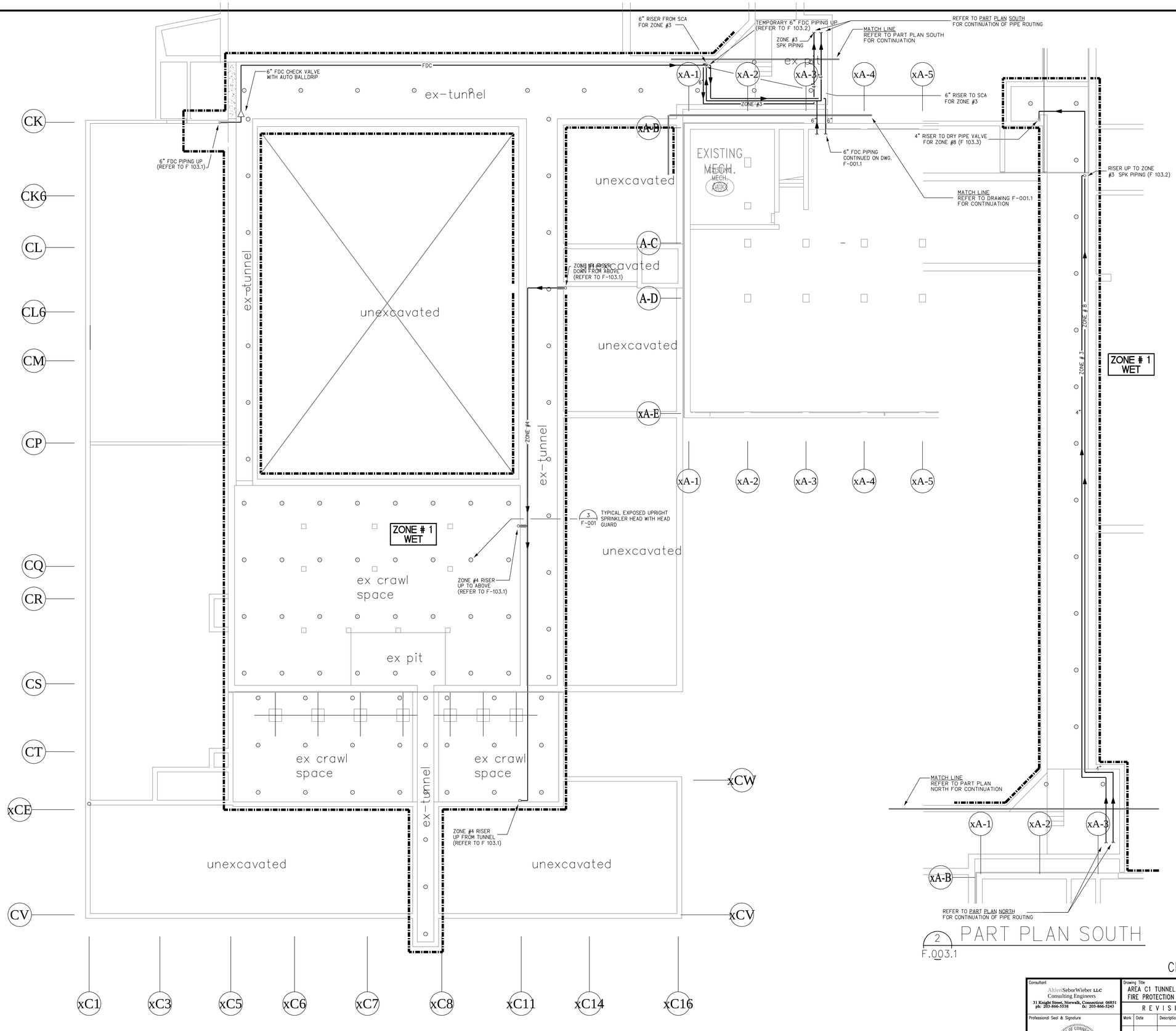


1 PART PLAN NORTH
F.003.1

2 PART PLAN SOUTH
F.003.1

TUNNEL KEY PLAN
SCALE: NOT TO SCALE

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5318 fx: 203-866-5243

Professional Seal & Signature
STATE OF CONNECTICUT
PAUL C. SYLVESTER
No. 20818
LICENSED PROFESSIONAL ENGINEER
ORIGINAL SEAL AND SIGNATURE IS BLUE

Mark	Date	Description

REVISIONS

CAD No. 045108F

Drawing Title
AREA C1 TUNNEL
FIRE PROTECTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. B1-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SW
Drawing No. F-003.1

FILE:045118s REV:02/01/2007 17:15 FILE:045108qs REV:02/20/2008 15:18 FILE:045108F REV:06/18/12 11:47

MATCH LINE
REFER TO DRAWING F-103.2
FOR CONTINUATION

2 F-003 PERMANENT 3-WAY FLUSH MOUNTED FDC ASSEMBLY WITH AUTO BALL DRIP LOCATION TO BE COORDINATED PHASE OF PROJECT AND CONSTRUCTION MANAGER.

6" FDC PIPING

6" FDC PIPING DOWN (F 003.1)

2 F-001 TYPICAL CONCEALED PENDENT SPRINKLER HEAD

5 F-001 METROFLEX FIRELOOP SEISMIC EXPANSION JOINT

3 F-001 TYPICAL EXPOSED UPRIGHT SPRINKLER HEAD ABOVE WOOD CEILING

ZONE # 4 WET

LOCATION OF SEISMIC JOINT

2 F-001 TYPICAL DRY PENDENT SPRINKLER HEAD

5 F-001 TYPICAL METROFLEX FIRELOOP SEISMIC EXPANSION JOINT

ZONE #4 SPK UP FROM TUNNEL SPACE (REFER TO F-003.1)

ZONE #4 SPK PIPING DOWN TO TUNNEL SPACE (F 003.1)

REFER TO DRAWING F-101.1 FOR CONTINUATION OF ZONE #4 PIPING

CAP LOCATION FOR EXTENSION FOR PHASING OF PROJECT

1" CONTROL VALVE W/ TAMPER SWITCH IN RATED CABINET (LOCATED MAXIMUM 7'-0" AFF) TO TO 212°F SPKR IN ELEV. MACH. RM

MATCH LINE
REFER TO DRAWING F-101.1
FOR CONTINUATION

3 F-001 TYPICAL EXPOSED UPRIGHT SPRINKLER HEAD WITH HEAD GUARD

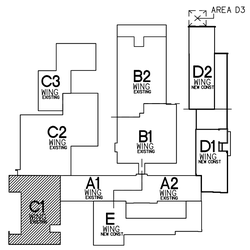
5 F-003 DRY SIDEWALL SPRINKLER HEAD

TYP. SPK CROSSMAIN PIPING

ZONE #4 SPK UP FROM TUNNEL SPACE (REFER TO F-003.1)

2 F-001 TYPICAL CONCEALED PENDENT SPRINKLER HEAD

CORRIDOR (C146) · VESTIBULE (C147) · CONCESSION (C151A) · DINING (C151A) · DINING (C151) · MEN (C153) · WOMEN (C155) · PASSAGE (C152A) · ELEV. (C156) · CORRIDOR (C152) · WOMEN (C159) · ELEV. MACH. (C157) · STOR. (C158A) · MAINTENANCE (C158) · MEN (C160) · LPN THEORY (A107A) · STAIR A1 (A100) · STAIR A2 (A101) · CORRIDOR (A103) · OFFICE (A105) · STORAGE (A102) · CONF. (A104) · DIRECTOR (A106) · CUST. (C154) · WORK ROOM (C158B) · ELECTRICAL (C161) · DISH ROOM (C181) · STORAGE (C180) · JAN. (C177) · SERVERY (C182) · HEAD COOK OFFICE (C183) · EXHAUST HOOD · INSTR. OFFICE (C179) · FREEZE/REF. (C178) · LUNCH KITCHEN (C176) · TOILET (C174A) · TOILET (C173A) · WOMEN LOCKER (C175) · MEN LOCKER (C173) · LOADING / UTILITY STORAGE (C162) · LOADING DOCK (C164A) · KITCHEN STORAGE (C163) · POT WASH (C176B) · STORAGE (C178A) · CORRIDOR (C172) · CULINARY KITCHEN (C168) · DEPT. HEAD OFFICE (C149A) · BAKERY (C169) · REF/FREEZE (C170) · STORAGE (C171) · POT WASH (C168A) · POT WASH (C169B) · WAIT STATION (C167) · RESTAURANT (C166) · CLASSROOM (C164) · STORAGE (166A) · VEST. (C165)



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature
ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA C1 MAIN LEVEL
FIRE PROTECTION

REVISIONS

Mark	Date	Description

CAD No. 045118F

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SW
Drawing No. F-103.1

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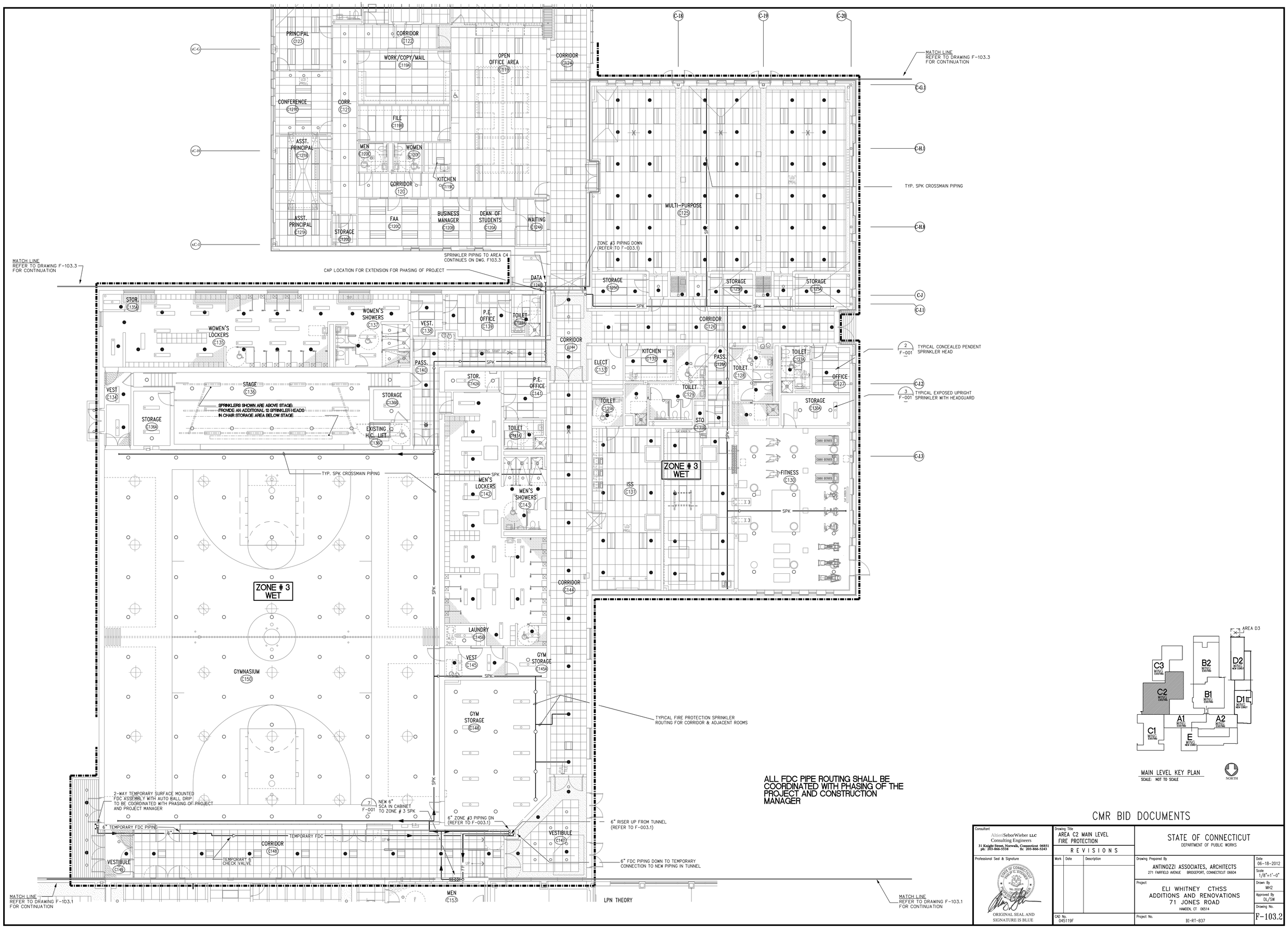


CMR BID DOCUMENTS

Consultant
AltieriSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Mark	Date	Description

REVISIONS

CAD No. 045119F

Drawing Title
AREA C2 MAIN LEVEL
FIRE PROTECTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SW
Drawing No. F-103.2

FILE 045119F REV.02/01/2007 17:15
FILE 045119b REV.06/18/12 17:40
FILE 045119g REV.04/26/2012 16:34

TYPICAL DRY PENDENT SPRINKLER AT FINISHED CEILING AND UPRIGHT SPRINKLER IN CONCEALED SPACE ABOVE (9 / F-001 SIMILAR)

ZONE # 8 DRY

ROUTE DRY SPRINKLER PIPING IN THE FLUE OF METAL DECK REFER TO A-527 DETAIL 26A

ZONE # 3 WET

DRY PIPE VALVE ASSEMBLY TO BE MOUNTED ON THE WALL FOR ZONE #8 (6 / F-003)

TYPICAL CONCEALED PENDENT SPRINKLER HEAD (2 / F-001)

TYPICAL CONCEALED SPRINKLER HEAD AT FINISHED CEILING AND UPRIGHT SPRINKLER IN CONCEALED SPACE ABOVE (9 / F-001)

COURT YARD GARDEN (C102)

MATCH LINE REFER TO DRAWING F-103.2 FOR CONTINUATION

TYP. SPK CROSSMAIN PIPING

TYPICAL SPRINKLER PIPE ROUTING FOR CORRIDOR 124

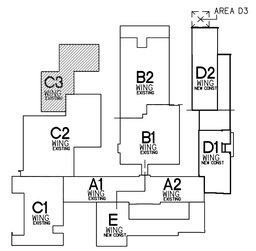
4" SUPPLY PIPING TO DRY PIPE VALVE

NEW 4" RISER DN REFER TO F-003.1

TYPICAL EXPOSED UPRIGHT SPRINKLER WITH HEADGUARD (3 / F-001)

SPRINKLER PIPING FROM AREA C2 & C3 CONTINUES ON DWG. F103.2

CAP LOCATION FOR EXTENSION FOR PHASING OF PROJECT



MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeboriWieber LLC, Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5538 fx: 203-866-5243	Drawing Title: AREA C3 MAIN LEVEL FIRE PROTECTION	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045110F	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. BI-RT-837

Date: 06-18-2012
Scale: 1/8"=1'-0"
Drawn By: MHZ
Approved By: DL/SM
Drawing No. F-103.3

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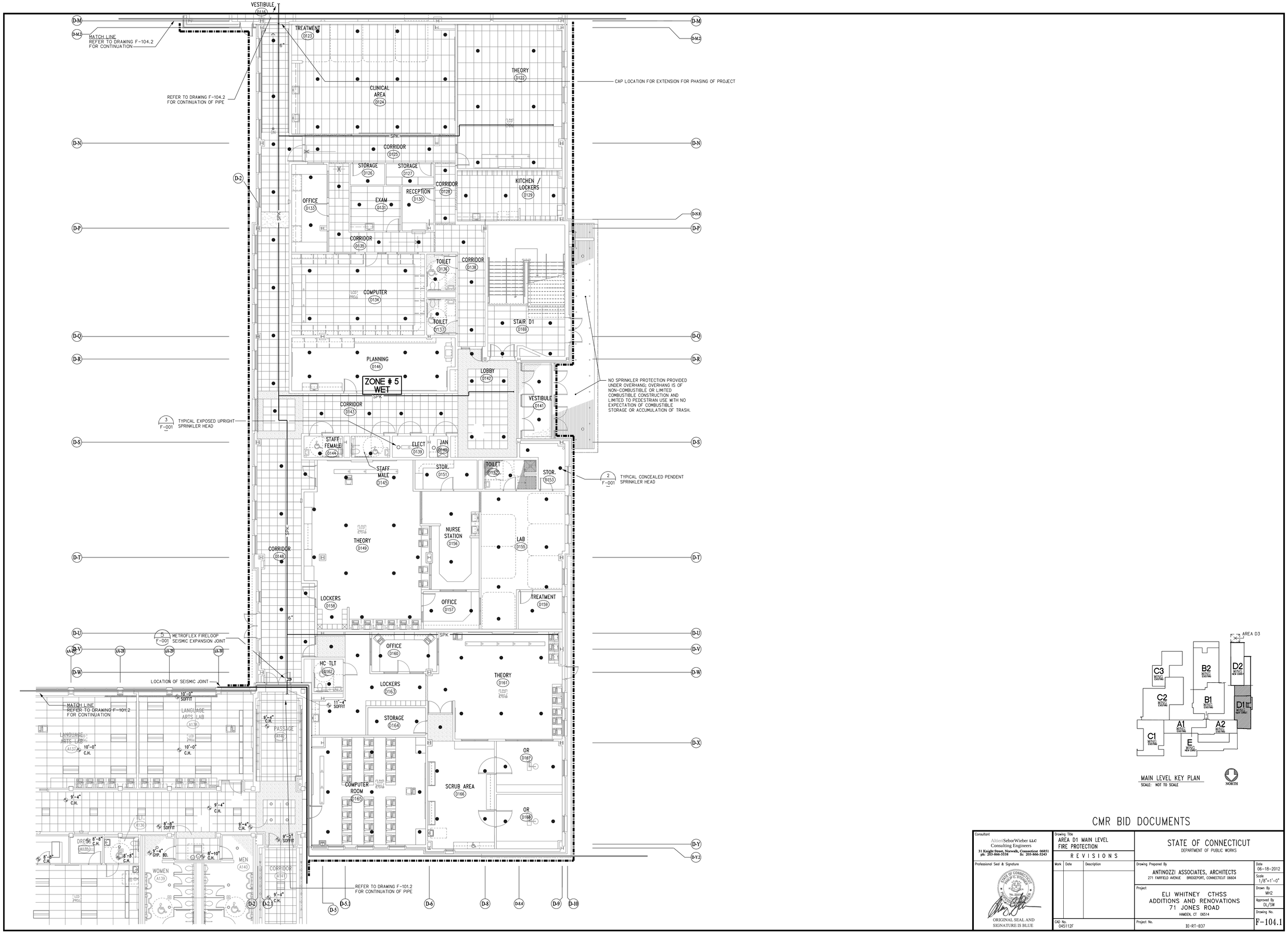

CMR BID DOCUMENTS

Consultant
AtkinSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5338 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D1 MAIN LEVEL
FIRE PROTECTION

REVISIONS

Mark	Date	Description

CAD No. 045112F

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SW
Drawing No. F-104.1

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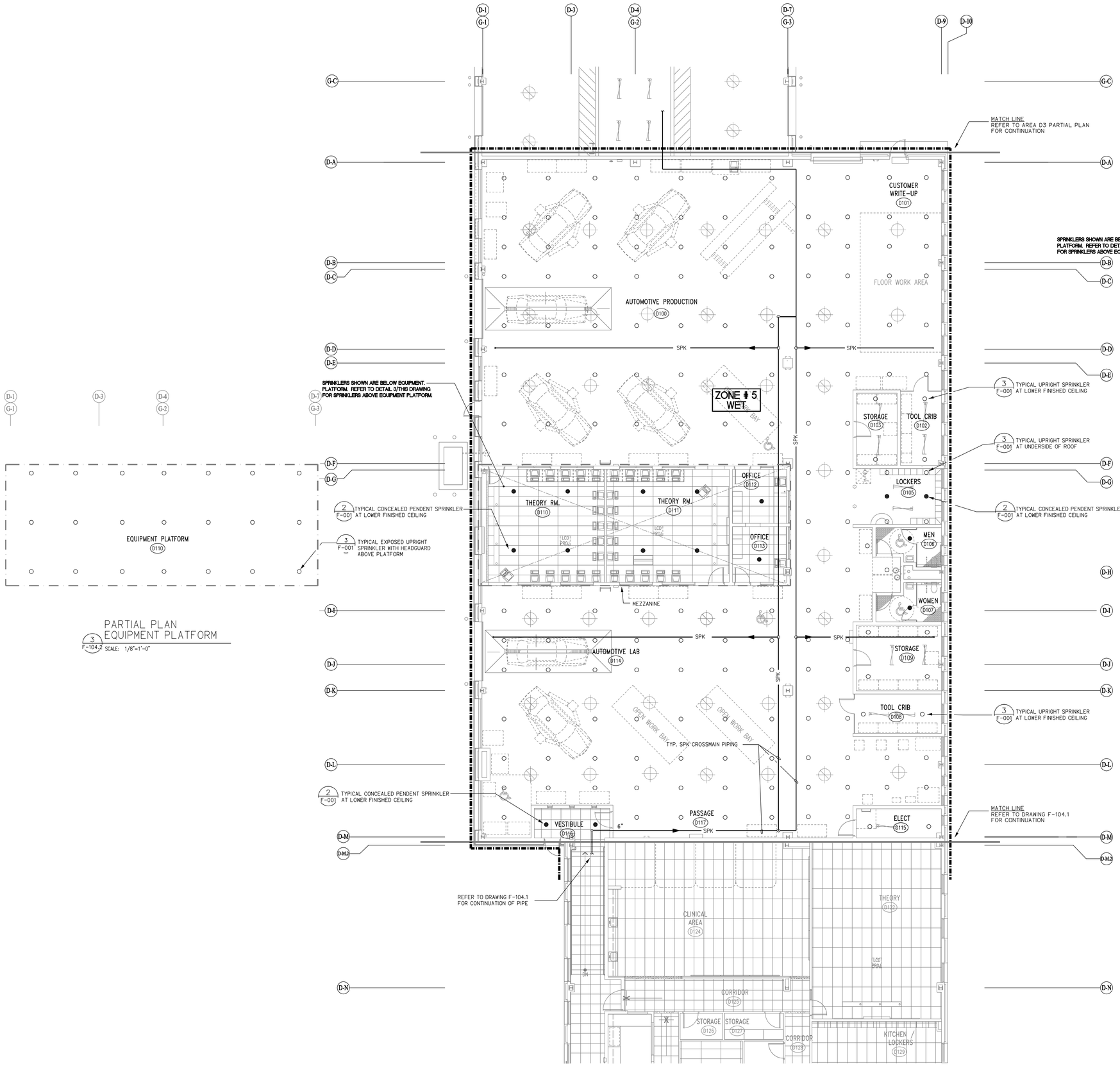
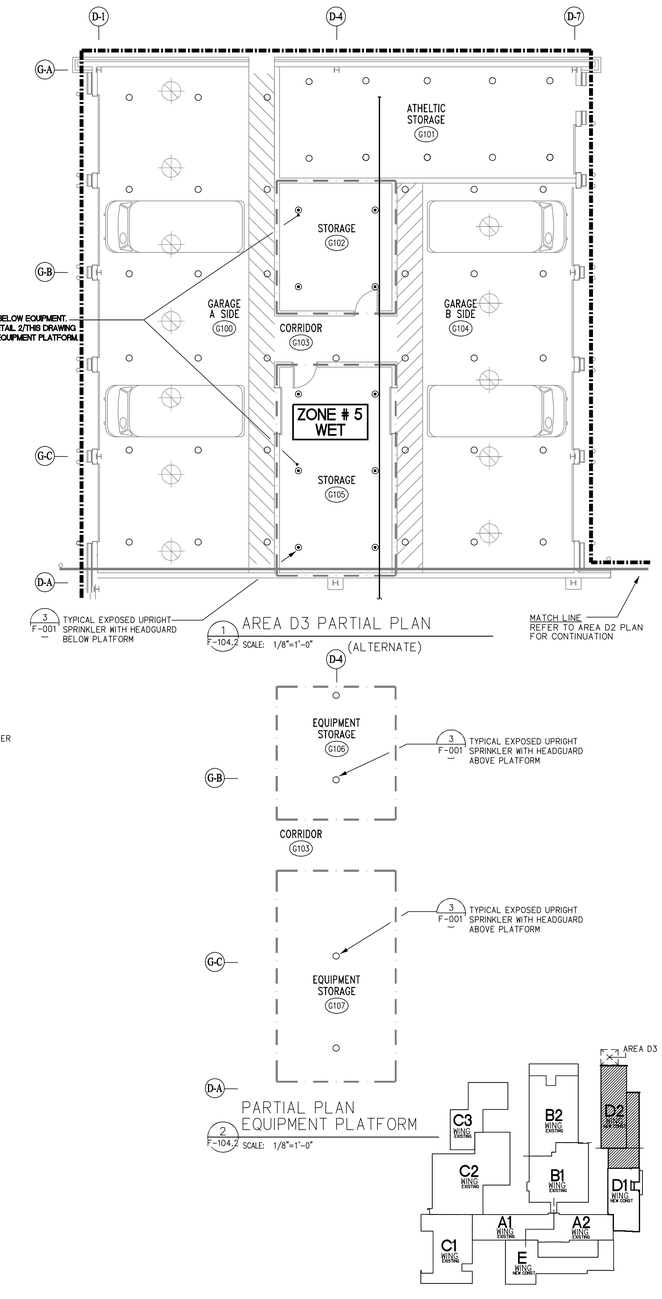


PARTIAL PLAN
EQUIPMENT PLATFORM
3 F-104.2 SCALE: 1/8"=1'-0"



AREA D3 PARTIAL PLAN
1 F-104.2 SCALE: 1/8"=1'-0"
(ALTERNATE)

PARTIAL PLAN
EQUIPMENT PLATFORM
2 F-104.2 SCALE: 1/8"=1'-0"

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant
AhlenSeborWieber LLC
Consulting Engineers
31 Knight Street, Norwalk, Connecticut 06851
ph: 203-866-5538 fx: 203-866-5243

Professional Seal & Signature

ORIGINAL SEAL AND SIGNATURE IS BLUE

Drawing Title
AREA D2 MAIN LEVEL
FIRE PROTECTION

REVISIONS

Mark	Date	Description

CAD No. 045111F

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By
ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project
ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SW
Drawing No. F-104.2

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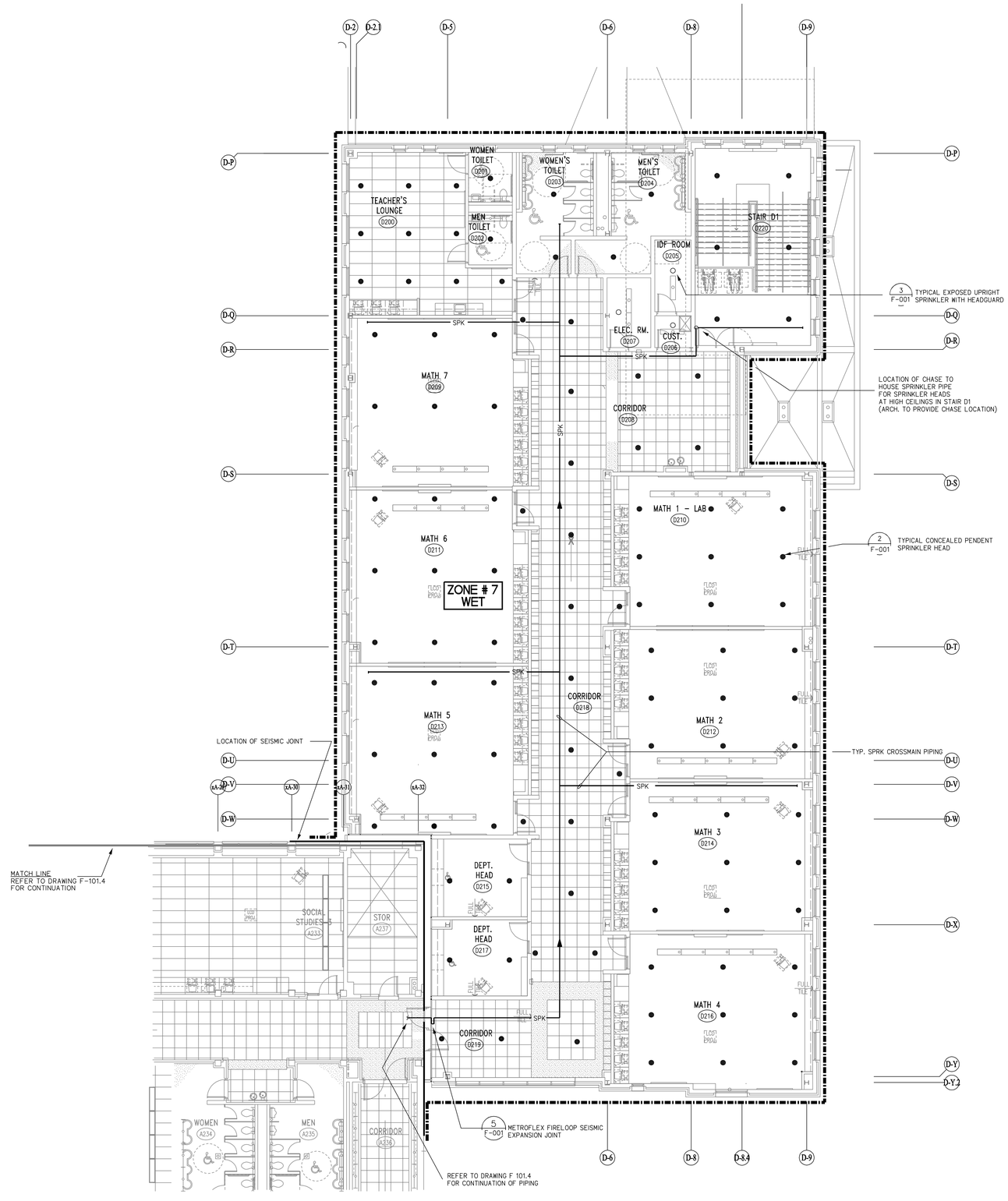

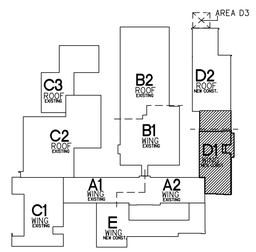

UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant	Drawing Title	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS	
AltieriSeborWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	AREA D1 UPPER LEVEL FIRE PROTECTION REVISIONS		
Professional Seal & Signature STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 22016 ORIGINAL SEAL AND SIGNATURE IS BLUE	Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604	Date 06-18-2012 Scale 1/8"=1'-0"
		Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514	Drawn By MHZ Approved By DL/SW Drawing No. F-104.3
CAD No. 045122F		Project No. BI-RT-837	

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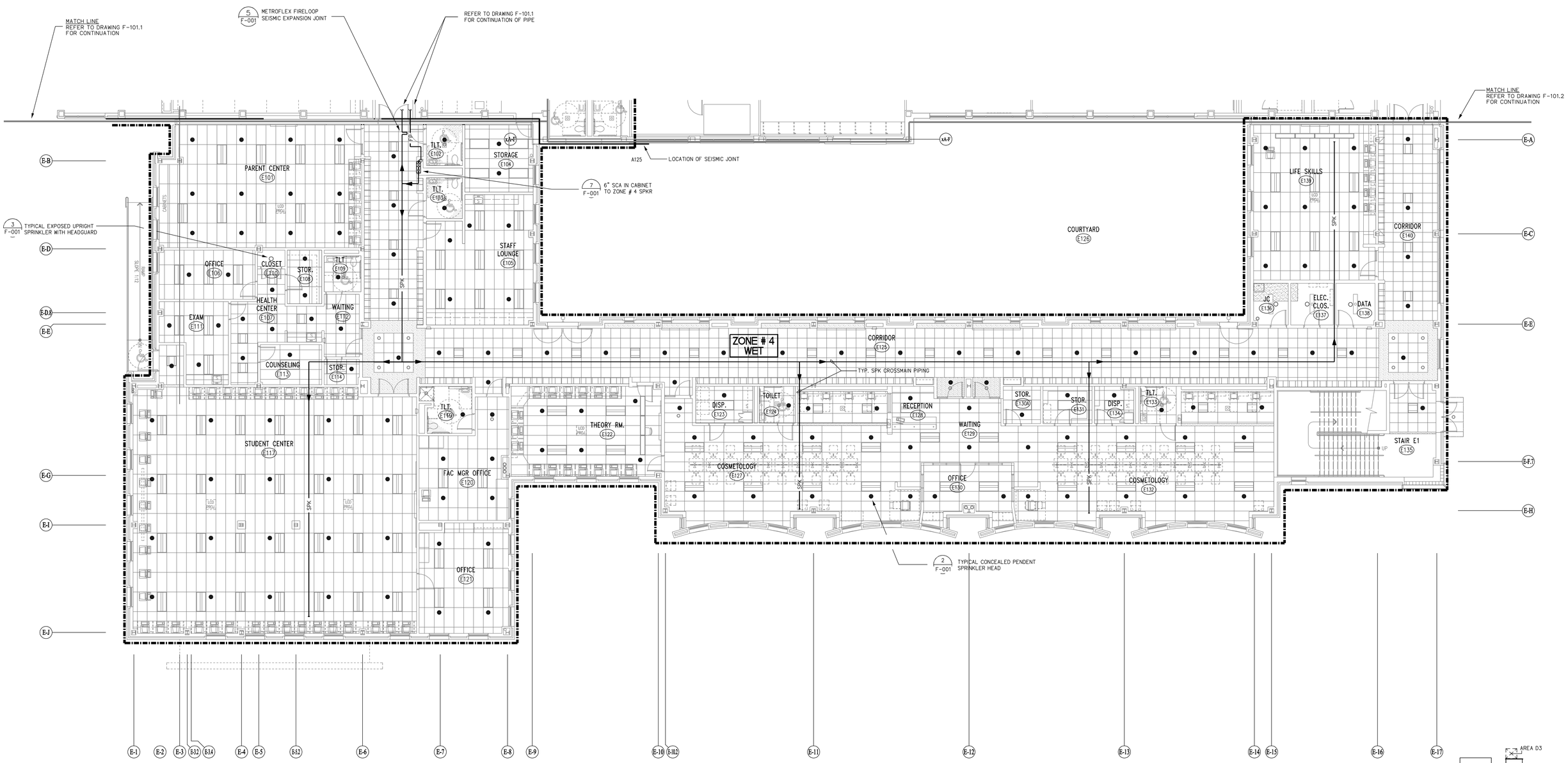

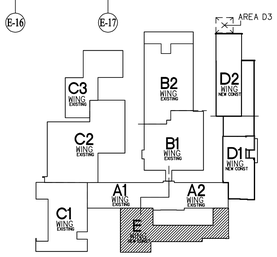

MAIN LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant AltieriSeboriWieber LLC Consulting Engineers 31 Knight Street, Norwalk, Connecticut 06851 ph: 203-866-5338 fx: 203-866-5243	Drawing Title AREA E MAIN LEVEL FIRE PROTECTION	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS Mark / Date / Description	Drawing Prepared By ANTINOZZI ASSOCIATES, ARCHITECTS 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045114F	Project ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS 71 JONES ROAD HAMDEN, CT 06514
		Project No. BI-RT-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MHZ
Approved By DL/SM
Drawing No. F-105.1

FILE:045114F REV:02/01/2007 17:15 FILE:045114p REV:04/26/12 16:53
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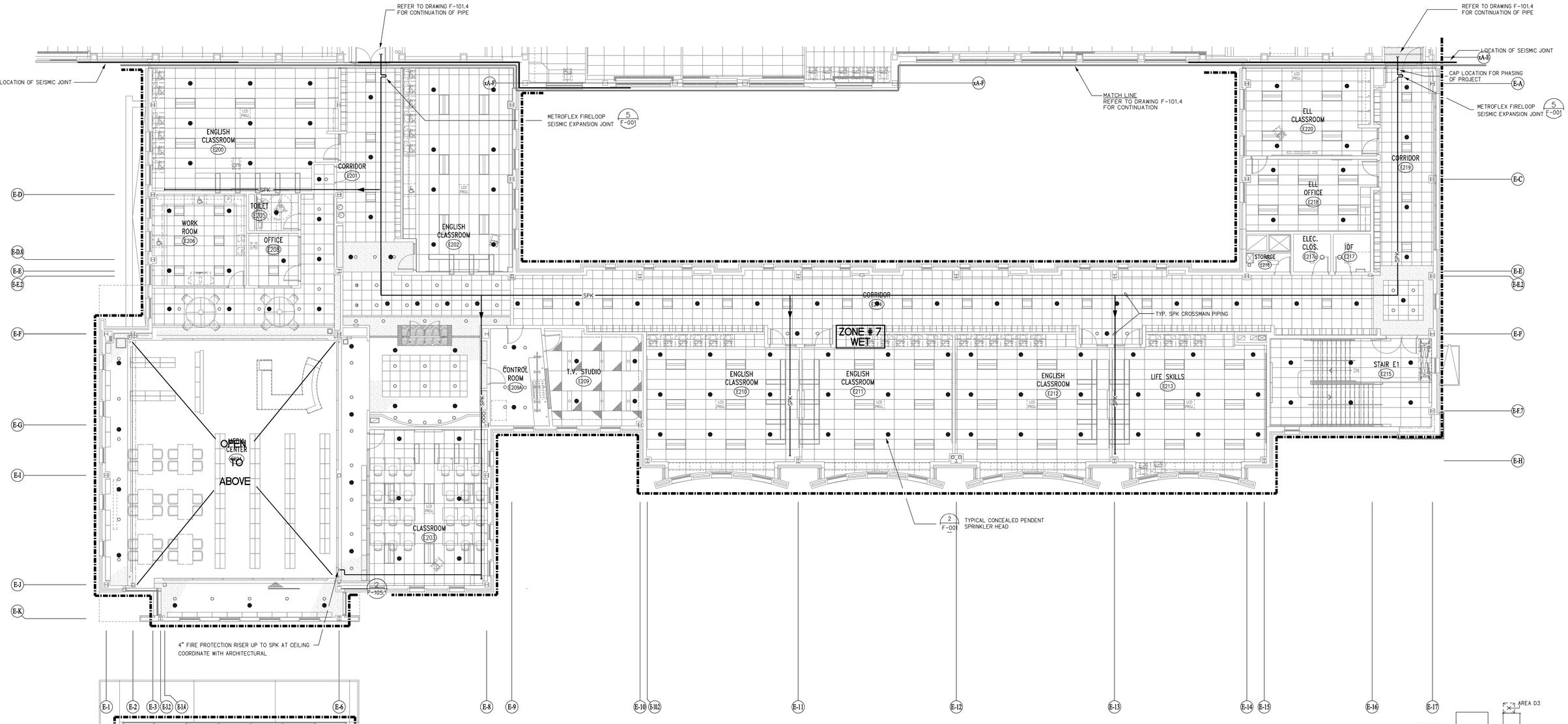
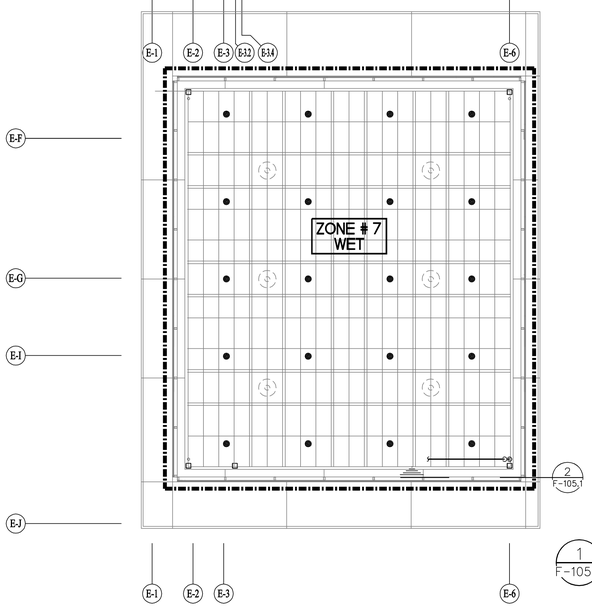
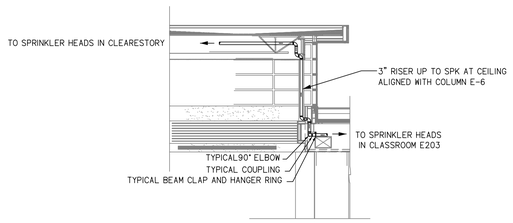
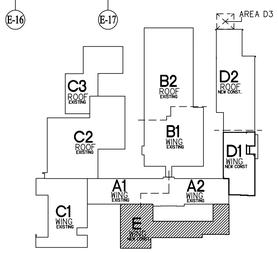






2 F-105.2 CLEARSTORY PLAN
SCALE: 1/8" = 1'-0"

1 F-105.2 CLEARSTORY PLAN
SCALE: 1/8" = 1'-0"



UPPER LEVEL KEY PLAN
SCALE: NOT TO SCALE

NORTH

CMR BID DOCUMENTS

Consultant: AltieriSeborWieber LLC Consulting Engineers, 31 Knight Street, Norwalk, Connecticut 06851, ph: 203-866-5338, fx: 203-866-5243	Drawing Title: AREA E UPPER LEVEL FIRE PROTECTION	STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature: ORIGINAL SEAL AND SIGNATURE IS BLUE	REVISIONS (Mark / Date / Description)	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
	CAD No. 045124F	Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
		Project No. B1-R1-837

Date 06-18-2012
Scale 1/8"=1'-0"
Drawn By MH2
Approved By DL/SW
Drawing No. F-105.2

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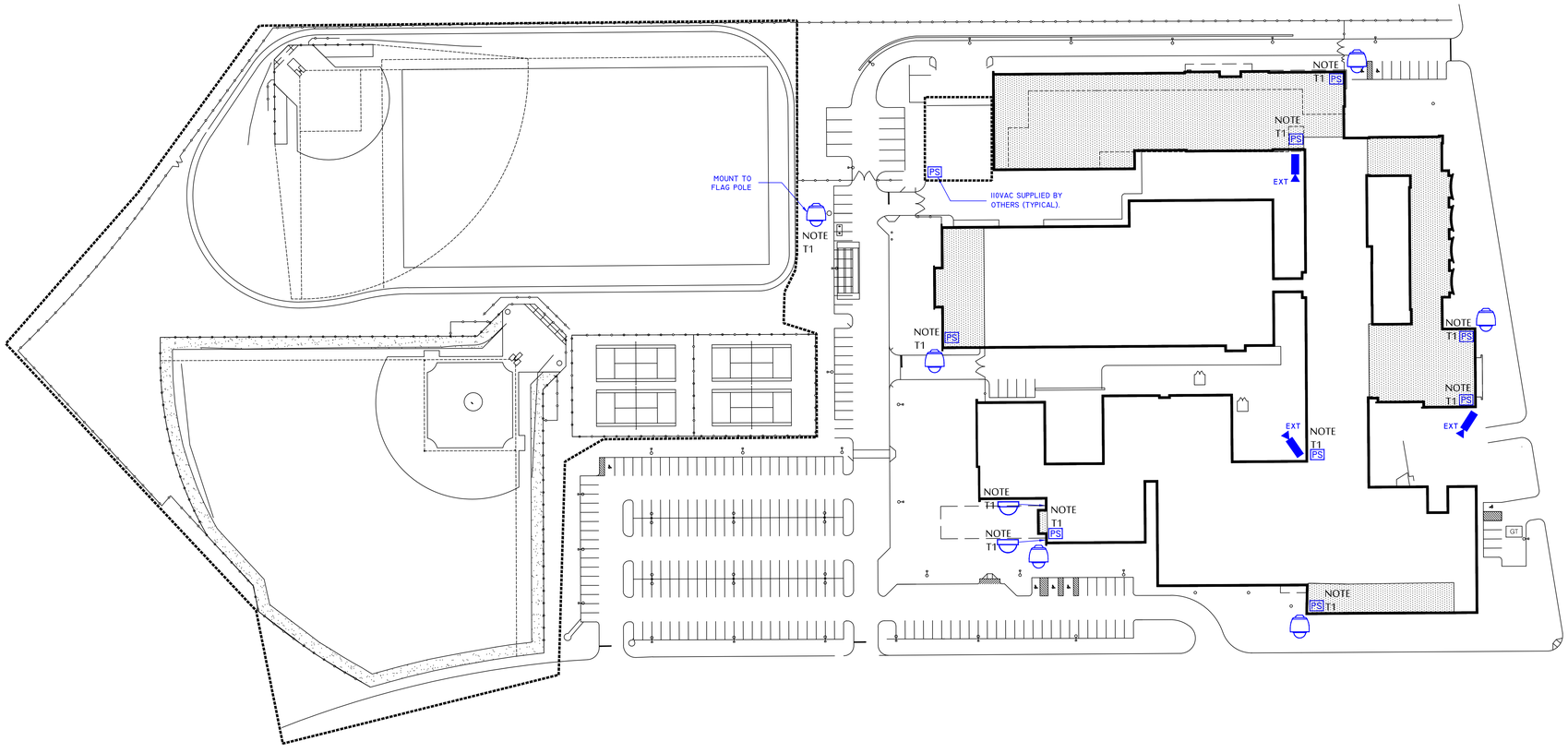
FILE:045124e REVISED:06/25/2012 13:16
FILE:045124f REVISED:04/26/12 16:48
REVISED:02/01/2007 17:15

SYMBOL LEGEND

- EXTERIOR VIDEO CAMERA
- EXT CAMERA POWER SUPPLY
- PS P/T/Z DOME CAMERA
- WALL MOUNTED, VANDAL RESISTANT, MINI DOME CAMERA



SECURITY GENERAL NOTES:

1. ALL CAMERAS, MOTION DETECTORS, CONTACTS, CARD READERS, MONITORS, OR CONTROLS, SHOWN ON THIS PLAN ARE ONLY SHOWN FOR REFERENCE & ARE NOT IN THIS CONTRACT, BUT WILL BE FURNISHED & INSTALLED BY THE OWNER'S INDEPENDENT CONSULTANT.
2. BACK BOXES & CONDUITS REQUIRED FOR CAMERA MOUNTING, CARD READER MOUNTING, & MOTION DETECTOR MOUNTING, & FOR THE POWER SUPPLIES WHERE REQUIRED SHALL BE FURNISHED & INSTALLED BY G.C. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. BACK BOXES, CONDUITS, & RACEWAYS SHALL BE CONCEALED IN NEW WALLS BELOW THE CEILING.
3. ALL DOOR CONTACTS & THE CONDUITS FEEDING SUCH CONTACTS, SHALL BE RECESSED EXCEPT FOR CONTACTS ON EXISTING DOORS TO REMAIN. *G.C. SHALL COORDINATE INSTALLATION OF RECESSED DOOR CONTACTS WITH THE OWNER'S SECURITY CONSULTANT.
4. ALL CONDUITS IN NEW WALLS OR PARTITIONS SHALL BE CONCEALED IN THE NEW WALL OR PARTITION, CLIP TO 6" ABOVE THE CEILING. SECURITY WIRING ABOVE THE CEILING SHALL BE BUNDLED IN A NEAT & ORGANIZED MANNER.

NOTES:

T1 - SEE ELEVATIONS FOR EXACT LOCATION OF BACK BOXES FOR CAMERA MOUNTING

ALL CONDUITS, BACK BOXES, & RACEWAYS FOR SECURITY SYSTEMS SHOWN ON THIS SHEET ARE TO BE SUPPLIED AND INSTALLED BY THE G.C.

GC TO PROVIDE:

1. PROVIDE A CABLE TRAY/CONDUIT/RACEWAY SYSTEM WITH PULL CORD FROM THE SECURITY DEVICES TO THE CORRIDOR DROP CEILING AND BETWEEN FLOORS. EXCEPTION, DROP CEILING MOUNTED CAMERAS AND MOTION SENSORS DO NOT REQUIRE A CONDUIT/RACEWAY.
2. PROVIDE SLEEVES FROM ROOMS, IN CORRIDORS AND BETWEEN FLOORS FOR OPEN CABLE TO BE RUN ABOVE THE DROP CEILING.
3. FIRE SEAL ALL SLEEVES
4. REFER TO TYPICALS FOR SECURITY DEVICE BACK BOX AND CONDUIT DETAILS.
5. REFER TO THE SECURITY PLANS AND ELEVATIONS FOR EQUIPMENT LOCATIONS
6. PROVIDE 110VAC POWER TO ALL SECURITY CONTROLS AND POWER SUPPLIES

01 SEC 100 SITE PLAN – SECURITY
SCALE: N.T.S.

ADT Security Services, Inc.
Sales & Service Office
10 RESEARCH PARKWAY
WALLINGFORD, CT
203-741-4000

tyco / Fire & Security ADT

CMR BID DOCUMENTS

Consultant: ANTINOZZI ASSOCIATES ARCHITECTURE & INTERIORS

Professional Seal & Signature: STATE OF CONNECTICUT · DANIEL A. ANTINOZZI III · No. 7858 · LICENSED ARCHITECT

Drawing Title: SECURITY ALARM SYSTEMS DEVICE LAYOUT

REVISIONS

Mark	Date	Description

CAD No.

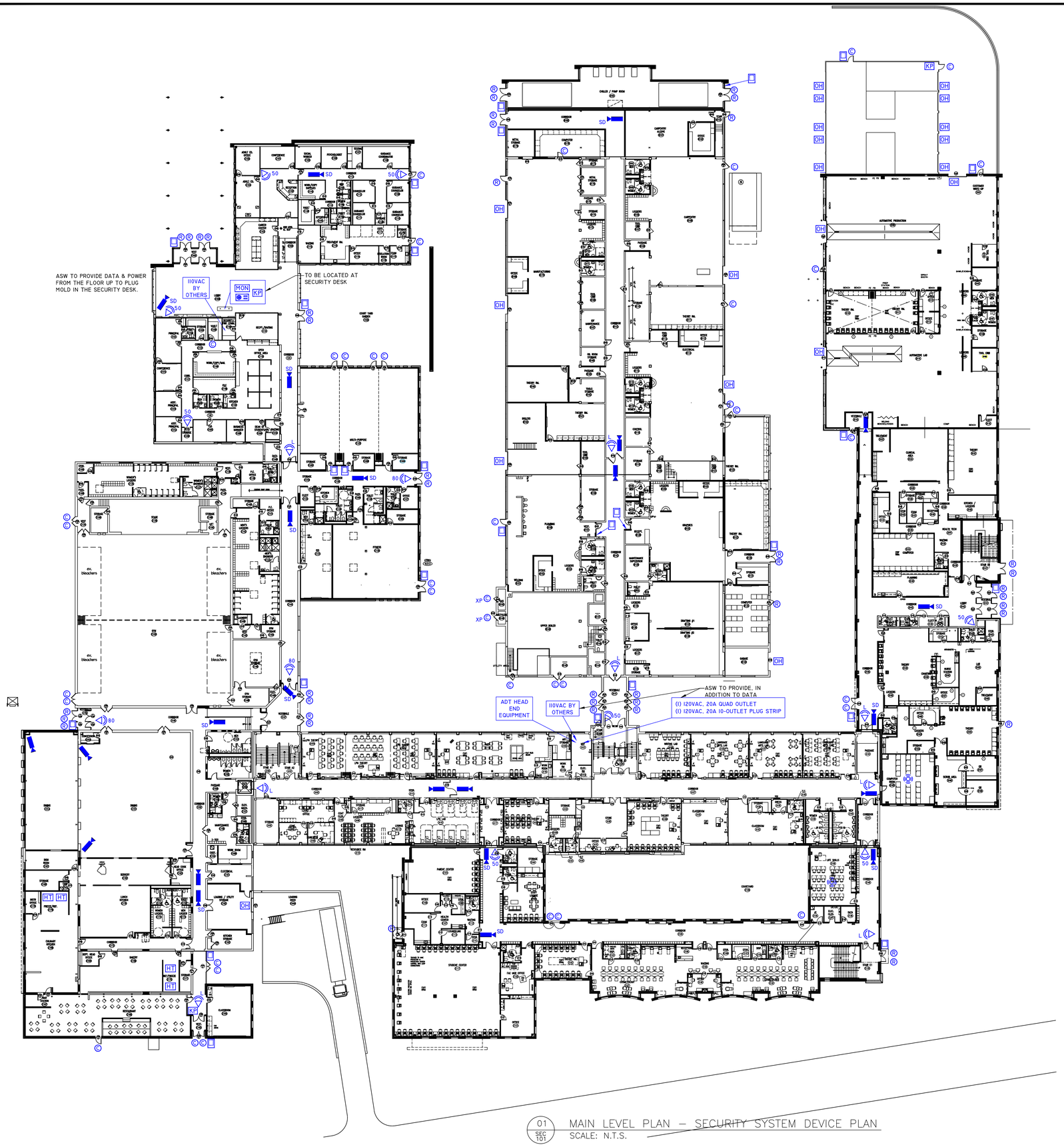
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date: 06-18-2012
Scale: NTS
Drawn By: RS
Approved By:
Drawing No.: SEC-100



01 SEC 101 MAIN LEVEL PLAN – SECURITY SYSTEM DEVICE PLAN
SCALE: N.T.S.

SYMBOL LEGEND

- C SINGLE DR. CONTACT, SURFACE
- R SINGLE DR. CONTACT, RECESSED
- OH OVERHEAD DOOR CONTACT
- KP ALARM CONTROL KEYPAD
- L MOTION DETECTOR, 200 FT
- 50 MOTION DETECTOR, 50 FT
- 80 MOTION DETECTOR, 80 FT
- MOTION DETECTOR, CEILING
- BURGLAR ALARM CONTROL
- HT HIGH TEMPERATURE SUPERVISION
- XP EXPLOSION PROOF DEVICE
- SD SUPER DYNAMIC CAMERA TYPE
- INTERIOR VIDEO CAMERA
- MON 17" VIDEO MONITOR
- CAMERA CONTROLLER
- PROXIMITY CARD READER

SECURITY GENERAL NOTES:

1. ALL CAMERAS, MOTION DETECTORS, CONTACTS, CARD READERS, MONITORS, OR CONTROLS, SHOWN ON THIS PLAN ARE ONLY SHOWN FOR REFERENCE & ARE NOT IN THIS CONTRACT, BUT WILL BE FURNISHED & INSTALLED BY THE OWNER'S INDEPENDENT CONSULTANT.
2. BACK BOXES & CONDUITS REQUIRED FOR CAMERA MOUNTING, CARD READER MOUNTING, & MOTION DETECTOR MOUNTING, & FOR THE POWER SUPPLIES WHERE REQUIRED SHALL BE FURNISHED & INSTALLED BY G.C. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. BACK BOXES, CONDUITS, & RACEWAYS SHALL BE CONCEALED IN NEW WALLS BELOW THE CEILING.
3. ALL DOOR CONTACTS & THE CONDUITS FEEDING SUCH CONTACTS, SHALL BE RECESSED EXCEPT FOR CONTACTS ON EXISTING DOORS TO REMAIN. *G.C. SHALL COORDINATE INSTALLATION OF RECESSED DOOR CONTACTS WITH THE OWNER'S SECURITY CONSULTANT.
4. ALL CONDUITS IN NEW WALLS OR PARTITIONS SHALL BE CONCEALED IN THE NEW WALL OR PARTITION, CLIP TO 6" ABOVE THE CEILING. SECURITY WIRING ABOVE THE CEILING SHALL BE BUNDLED IN A NEAT & ORGANIZED MANNER.

NOTES:

ALL CONDUITS, BACK BOXES, & RACEWAYS FOR SECURITY SYSTEMS SHOWN ON THIS SHEET ARE TO BE SUPPLIED AND INSTALLED BY THE G.C.

GC TO PROVIDE:

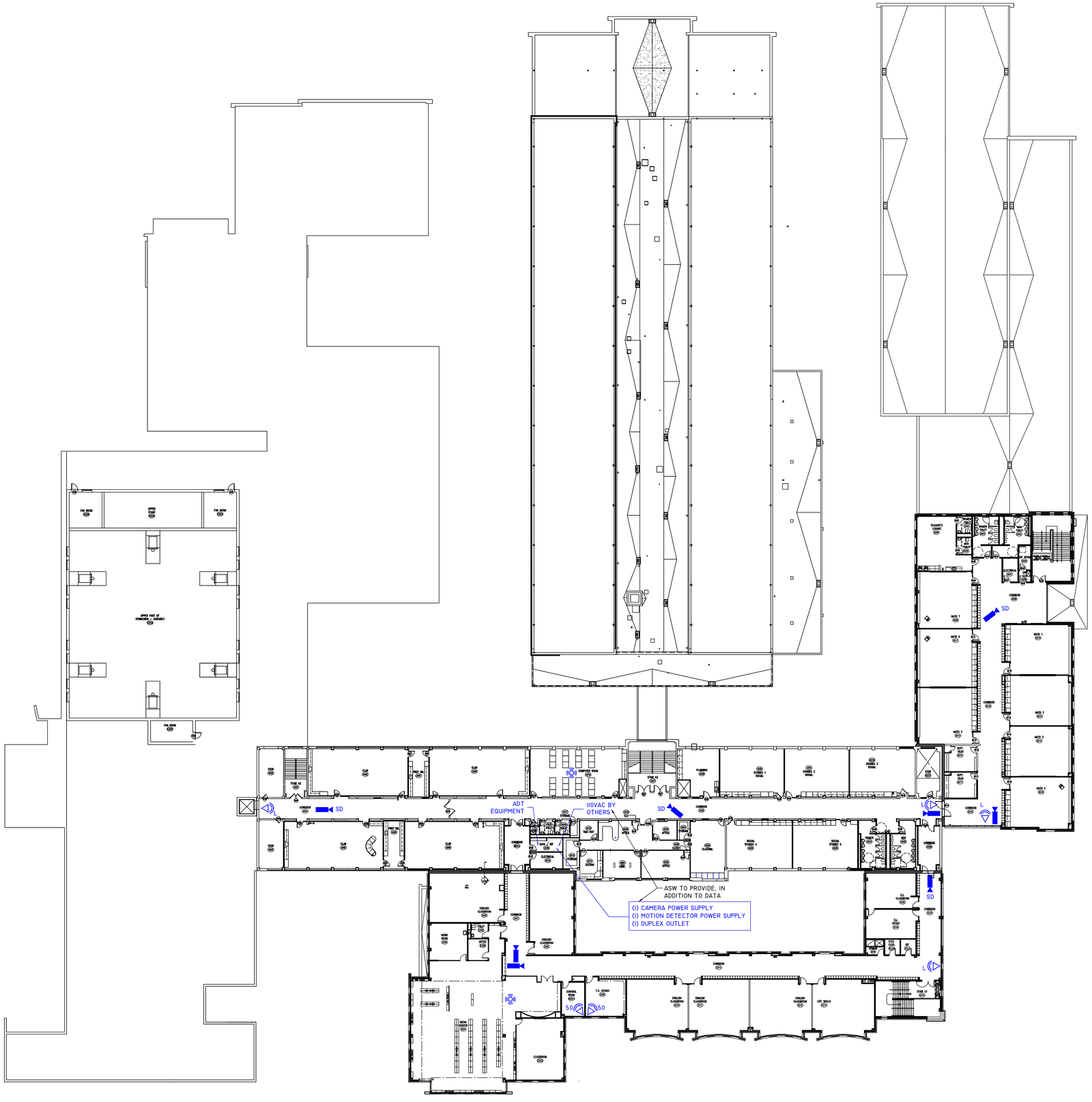
1. PROVIDE A CABLE TRAY/CONDUIT/RACEWAY SYSTEM WITH PULL CORD FROM THE SECURITY DEVICES TO THE CORRIDOR DROP CEILING AND BETWEEN FLOORS. EXCEPTION, DROP CEILING MOUNTED CAMERAS AND MOTION SENSORS DO NOT REQUIRE A CONDUIT/RACEWAY.
2. PROVIDE SLEEVES FROM ROOMS, IN CORRIDORS AND BETWEEN FLOORS FOR OPEN CABLE TO BE RUN ABOVE THE DROP CEILING.
3. FIRE SEAL ALL SLEEVES
4. REFER TO TYPICALS FOR SECURITY DEVICE BACK BOX AND CONDUIT DETAILS.
5. REFER TO THE SECURITY PLANS AND ELEVATIONS FOR EQUIPMENT LOCATIONS
6. PROVIDE 110VAC POWER TO ALL SECURITY CONTROLS AND POWER SUPPLIES

CMR BID DOCUMENTS

ADT Security Services, Inc.
Sales & Service Office:
10 RESEARCH PARKWAY
WALLINGFORD, CT
203-741-4000

tyco / Fire & Security ADT

Consultant: ANTINOZZI ASSOCIATES ARCHITECTURE & INTERIORS	Drawing Title: SECURITY ALARM SYSTEMS DEVICE LAYOUT	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS	
Professional Seal & Signature	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604	Date: 06-18-2012
			Scale: NTS
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514	Drawn By: RS
			Approved By:
	CAD No.	Project No. BI-RT-837	Drawing No. SEC-101



01 SEC 102 UPPER LEVEL PLAN – SECURITY SYSTEM DEVICE PLAN
SCALE: N.T.S.

SYMBOL LEGEND

- C SINGLE DR. CONTACT, SURFACE
- R SINGLE DR. CONTACT, RECESSED
- OH OVERHEAD DOOR CONTACT
- KP ALARM CONTROL KEYPAD
- L MOTION DETECTOR, 200 FT
- 50 MOTION DETECTOR, 50 FT
- 80 MOTION DETECTOR, 80 FT
- MOTION DETECTOR, CEILING
- BURGLAR ALARM CONTROL
- HT HIGH TEMPERATURE SUPERVISION
- XP EXPLOSION PROOF DEVICE
- SD SUPER DYNAMIC CAMERA TYPE
- INTERIOR VIDEO CAMERA
- MON 17" VIDEO MONITOR
- CAMERA CONTROLLER

SECURITY GENERAL NOTES:

GN1 - ALL CAMERAS, MOTION DETECTORS, CONTACTS, CARD READERS, MONITORS, OR CONTROLS, SHOWN ON THIS PLAN ARE ONLY SHOWN FOR REFERENCE & ARE NOT IN THIS CONTRACT, BUT WILL BE FURNISHED & INSTALLED BY THE OWNER'S INDEPENDENT CONSULTANT.
GN2 - BACK BOXES & CONDUITS REQUIRED FOR CAMERA MOUNTING, CARD READER MOUNTING, & MOTION DETECTOR MOUNTING, & FOR THE POWER SUPPLIES WHERE REQUIRED SHALL BE FURNISHED & INSTALLED BY G.C. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. BACK BOXES, CONDUITS, & RACEWAYS SHALL BE CONCEALED IN NEW WALLS BELOW THE CEILING.
GN3 - ALL DOOR CONTACTS & THE CONDUITS FEEDING SUCH CONTACTS, SHALL BE RECESSED EXCEPT FOR CONTACTS ON EXISTING DOORS TO REMAIN. *G.C. SHALL COORDINATE INSTALLATION OF RECESSED DOOR CONTACTS WITH THE OWNER'S SECURITY CONSULTANT.
GN4 - ALL CONDUITS IN NEW WALLS OR PARTITIONS SHALL BE CONCEALED IN THE NEW WALL OR PARTITION, CLIP TO 6" ABOVE THE CEILING. SECURITY WIRING ABOVE THE CEILING SHALL BE BUNDLED IN A NEAT & ORGANIZED MANNER.

ALL SYMBOLS IN SYMBOLS LEGEND, IDENTIFY EQUIPMENT THAT WILL BE FURNISHED, INSTALLED, & WIRED BY THE OWNER'S SECURITY CONSULTANT, INDEPENDENT OF, BUT SIMULTANEOUS WITH THE CONSTRUCTION OF THIS PROJECT.

NOTES:

ALL CONDUITS, BACK BOXES, & RACEWAYS FOR SECURITY SYSTEMS SHOWN ON THIS SHEET ARE TO BE SUPPLIED AND INSTALLED BY THE G.C.

GC TO PROVIDE:
1. PROVIDE A CABLE TRAY/CONDUIT/RACEWAY SYSTEM WITH PULL CORD FROM THE SECURITY DEVICES TO THE CORRIDOR DROP CEILING AND BETWEEN FLOORS. EXCEPTION, DROP CEILING MOUNTED CAMERAS AND MOTION SENSORS DO NOT REQUIRE A CONDUIT/RACEWAY.
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5. REFER TO THE SECURITY PLANS AND ELEVATIONS FOR EQUIPMENT LOCATIONS
6. PROVIDE 110VAC POWER TO ALL SECURITY CONTROLS AND POWER SUPPLIES

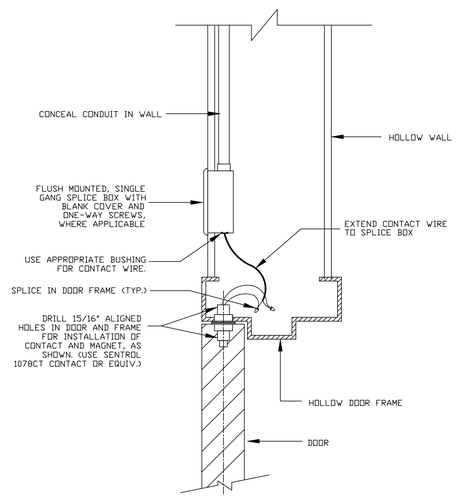
CMR BID DOCUMENTS

ADT Security Services, Inc.
Sales & Service Office
10 RESEARCH PARKWAY
WALLINGFORD, CT
203-741-4000

tyco / Fire & Security ADT

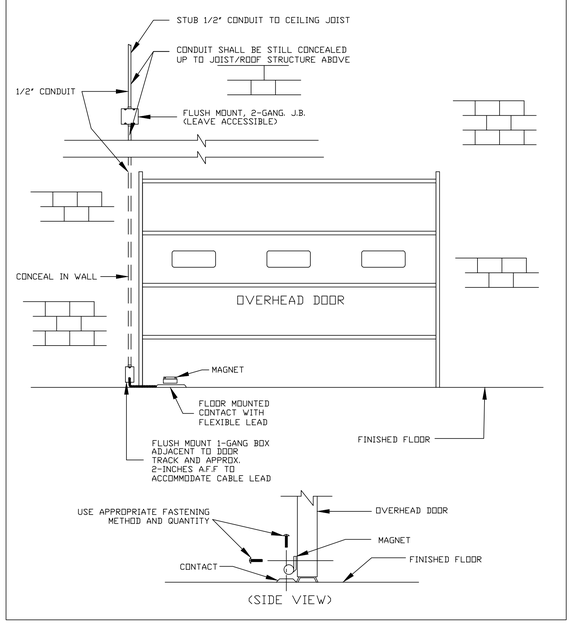
Consultant: ANTINOZZI ASSOCIATES ARCHITECTURE & INTERIORS	Drawing Title: SECURITY ALARM SYSTEMS DEVICE LAYOUT	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
Professional Seal & Signature	REVISIONS: Mark / Date / Description	Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS, 271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604
		Project: ELI WHITNEY CTHSS ADDITIONS AND RENOVATIONS, 71 JONES ROAD, HAMDEN, CT 06514
CAD No.		Project No. BI-RT-837

Date 06-18-2012
Scale NTS
Drawn By RS
Approved By
Drawing No. SEC-102



SENTROL 1078 SERIES DOOR CONTACT TYPICAL INSTALLATION DETAIL FOR NEW WALL CONSTRUCTION

11



OVERHEAD DOOR CONTACT TYPICAL INSTALLATION DETAIL AS REQUIRED FOR NEW WALL CONSTRUCTION

12

SECURITY GENERAL NOTES:

1. ALL CAMERAS, MOTION DETECTORS, CONTACTS, CARD READERS, MONITORS, OR CONTROLS, SHOWN ON THIS PLAN ARE ONLY SHOWN FOR REFERENCE & ARE NOT IN THIS CONTRACT, BUT WILL BE FURNISHED & INSTALLED BY THE OWNER'S INDEPENDENT CONSULTANT.
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NOTES:

ALL CONDUITS, BACK BOXES, & RACEWAYS FOR SECURITY SYSTEMS SHOWN ON THIS SHEET ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.

GC TO PROVIDE:

1. PROVIDE A CABLE TRAY/CONDUIT/RACEWAY SYSTEM WITH PULL CORD FROM THE SECURITY DEVICES TO THE CORRIDOR DROP CEILING AND BETWEEN FLOORS. EXCEPTION, DROP CEILING MOUNTED CAMERAS AND MOTION SENSORS DO NOT REQUIRE A CONDUIT/RACEWAY.
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6. PROVIDE 110VAC POWER TO ALL SECURITY CONTROLS AND POWER SUPPLIES

01 / ADT 4.04 TYPICAL INSTALLATION DETAILS #4
SCALE: N.T.S.

CMR BID DOCUMENTS

tyco / Fire & Security ADT

ADT Security Services, Inc.
Sales & Service Office
10 RESEARCH PARKWAY
WALLINGFORD, CT
203-741-4000

Consultant: ANTINOZZI ASSOCIATES ARCHITECTURE & INTERIORS

Professional Seal & Signature: STATE OF CONNECTICUT · DANIEL A. ANTINOZZI III · No. 7294 · LICENSED ARCHITECT

Drawing Title: TYPICAL INSTALLATION SECURITY ALARM SYSTEMS

REVISIONS

Mark	Date	Description

CAD No.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

Drawing Prepared By: ANTINOZZI ASSOCIATES, ARCHITECTS
271 FAIRFIELD AVENUE BRIDGEPORT, CONNECTICUT 06604

Project: ELI WHITNEY CTHSS
ADDITIONS AND RENOVATIONS
71 JONES ROAD
HAMDEN, CT 06514

Project No. BI-RT-837

Date: 06-18-2012
Scale: NTS
Drawn By: RS
Approved By:
Drawing No. SEC-103.1