BLACK DIAMOND CONSULTANTS INC

www.BLCKDiamond.net

312 Water Street
PO Box 57
Gardiner, ME 04345

111 New Hampshire Avenue
Portsmouth, NH 03801

tel 207.582.0056 fax 207.582.9098 tel 603.570.2281

BDC PROJECT
AB-02

ARCH BETA COMMUNITY CENTER

AUGUSTA, MAINE

VICINITY MAP

SOURCE: DeLorme
SCALE: NTS

DIRECTIONS: (FROM I-95 SOUTH):
Exit 113 (7.3 mi)Take exit 109A to merge onto US-202 E/Western Ave toward Augusta (1.0 mi) Turn right onto Worcester St (0.2 mi)Take the 1st left onto Alden Ave (0.1 mi) Turn right onto Capitol St (0.1 mi) Take the 1st left onto Gray Birch Dr Destination will be on the right (460 ft)

LEGEND

1 / CIV-1A — DETAIL NUMBER
SHEET ON WHICH DETAIL APPEARS

1 / CIV-1A — SECTION NUMBER
SHEET ON WHICH SECTION APPEARS

1 / CIV-1A — ELEVATION NUMBER
SHEET ON WHICH ELEVATION APPEARS

ABBREVIATIONS

@ – AT
A/C – AIR CONDITIONING
AB – ANCHOR BOLT
ACT – ACOUSTIC CEILING TILE
ADA – AMERICANS WITH DISABILITY ACT
AFF – ABOVE FINISHED FLOOR
AHU – AIR HANDLER UNIT
ALUM – ALUMINUM
AMSL – ABOVE MEAN SEA LEVEL
AMC – ACCESS MASTER CONTROL
ASTM – A STANDARD TEST METHOD
BD – BACK DAMPER
BLDG – BUILDING
BTS – BARE TINNED STRANDED
CAM – CAMERA
CAR – CARPET
CE – CAMERA ENCLOSURE
CL – CENTERLINE
CMP – CORRUGATED METAL PIPE
CONC – CONCRETE
CU – CONDENSING UNIT
DIA – DIAMETER
DP – DISTRIBUTION PANEL
DVR – DIGITAL VIDEO RECORDER
DWG – DRAWING
EBB – ELECTRICAL BASEBOARD
EDP – EMERGENCY DISTRIBUTION PANEL
EF – EACH FACE
EF – EXHAUST FAN
EGB – EXTERNAL GROUND BAR
EGR – EXTERNAL GROUND RING
EH – EXHAUST HOOD
ELEV – ELEVATION
ELE – ELECTRICAL
EP – EPOXY PAINT
ERV – ENERGY RECOVERY UNIT
ETC – EXETERA
EUH – ELECTRIC UNIT HEATER
EW – EACH WAY
EWH – ELECTRICAL WALL HEATER
FC – FIBER CONVERTER
FCDAT – FIBER CONVERTER, DATA
FCT – FIBER CONVERTER, TELEPHONE
FE – FIBER ENCLOSURE
FNDN – FOUNDATION
FTG – FOOTING
GALV – GALVANIZED
GFI – GOUND FAULT INTERRUPTER
GH – GATEHOUSE
GND – GROUND
GWB – GYPSUM WALL BOARD
HR – HOUR
HT – HEIGHT
ID – IDENTIFICATION
IG – IN GROUND
IGB – ISOLATED GROUND BAR
LC – LIGHTING CONTRACTOR
LP – LIGHT POLE
MAX – MAXIMUM
MECH – MECHANICAL
MIGB – MASTER ISOLATION GROUND BAR
MIN – MINIMUM
MISC – MISCELLANEOUS
MON – MONITOR
MRF – MANUFACTURER
MS – MATRIX SWITCH
MTL – METAL
NFPA – NATIONAL FIRE PROTECTION ASSOCIATION
NIC – NOT IN CONTRACT
NO. – NUMBER
NTS – NOT TO SCALE
OC – ON CENTER
OCEW – ON CENTER EACH WAY
OSB – ORIENTED STRAND BOARD
PAS – PRIMARY ALARM STATION
PC – POINT OF CURVE
PDE – POWER DISTRIBUTION ENCLOSURE
PM – POLE MOUNTED
PRCN – PORCELAIN
PS – POWER SUPPLY
PSI – POUNDS PER SQUARE INCH
PT – PRESSURE TREATED
PTD – PAINTED
PVC – POLYVINYL CHLORIDE
QTY – QUANTITY
QUAD – QUADSPLITTER
R – RADIUS
REF – REFRIGERATOR
RL – REFRIGERATION LIQUID
RR – RAILROAD
RS – REFRIGERATION SUCTION
SC – SEALED CONCRETE
SF – SILTATION FENCE
SOB – SECURITY OPERATIONS BUILDING
SP – SECURITY PANEL
SPEC – SPECIFICATION
SS – STAINLESS STEEL
T&G – TONGUE AND GROOVE
TYP – TYPICAL
UND – UNLESS NOTED OTHERWISE
UPS – UNINTERRUPTED POWER SUPPLY
VIF – VERIFY IN FIELD
VNL – VINYL
VRF – VARIABLE REFRIGERANT FLOW
W/ – WITH
WH – WATER HEATER
WM – WALL MOUNTED

PROJECT INFORMATION

SITE ADDRESS
GRAY BIRCH DRIVE
AUGUSTA, MAINE 04330

APPLICANT
AUGUSTA REGIONAL CHURCH HOUSING CORPORATION
GRAY BIRCH DRIVE
AUGUSTA, MAINE 04330

PROPERTY OWNER
AUGUSTA REGIONAL HOUSING CORPORATION
950 EAST PACES FERRY ROAD
ATLANTA, GEORGIA 30326-1161

ELECTRICAL COMPANY
CENTRAL MAINE POWER COMPANY
83 EDISON DRIVE
AUGUSTA, MAINE 04336
800.565.3181

TELEPHONE COMPANY
FAIRPOINT COMMUNICATIONS
627 ROUTE 3
SOUTH CHINA, MAINE 04358
866.984.3001

DRAWING INDEX

COVERSHEET (CVR)
CVR-1A-0 COVERSHEET

SURVEY (SUR)
SUR-1A-0 PLOT PLAN

CIVIL (CIV)
CIV-1A-0 SITE PLAN
CIV-2A-0 SITE DETAILS I

ARCHITECTURAL (ARC)
ARC-1A-0 FLOOR PLAN
ARC-2A-0 NORTH AND WEST ELEVATIONS
ARC-2B-0 SOUTH AND EAST ELEVATIONS
ARC-3A-0 ARCHITECTURAL DETAILS AND SCHEDULES
ARC-3B-0 ARCHITECTURAL DETAILS II
ARC-4A-0 INTERIOR ELEVATIONS

STRUCTURAL (STR)
STR-1A-0 FOUNDATION PLAN
STR-1B-0 FOUNDATION DETAILS
STR-2A-0 ROOF FRAMING PLAN
STR-3A-0 BUILDING SECTIONS
STR-3B-0 BUILDING SECTION AND NOTES
STR-4A-0 BUILDING WALL SECTIONS

MECHANICAL (MEC)
MEC-1A-0 HVAC
MEC-2A-0 MECHANICAL - ROOF PLAN
MEC-3A-0 MECHANICAL - PLUMBING I
MEC-3B-0 MECHANICAL - PLUMBING II
MEC-4A-0 MECHANICAL - DETAILS I

ELECTRICAL (ELE)
ELE-1A-0 ELECTRICAL - POWER PLAN
ELE-2A-0 ELECTRICAL - LIGHTING PLAN
ELE-3A-0 ELECTRICAL - MEDIA PLAN
ELE-4A-0 ELECTRICAL - NOTES & DETAILS

ENVIRONMENTAL (ENV)
ENV-1A-0 ENVIRONMENTAL DETAILS

PDF PRINTS
SCALE MAY VARY DUE TO INDIVIDUAL PRINTER SETTINGS

DRAWING NUMBER AB–02_CVR–1A–0
BDC: P/DRAFTING/BDC/AB–02/AB–02_CVR–1A–0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	3/21/13	MJM	AMC	AMC	JRH

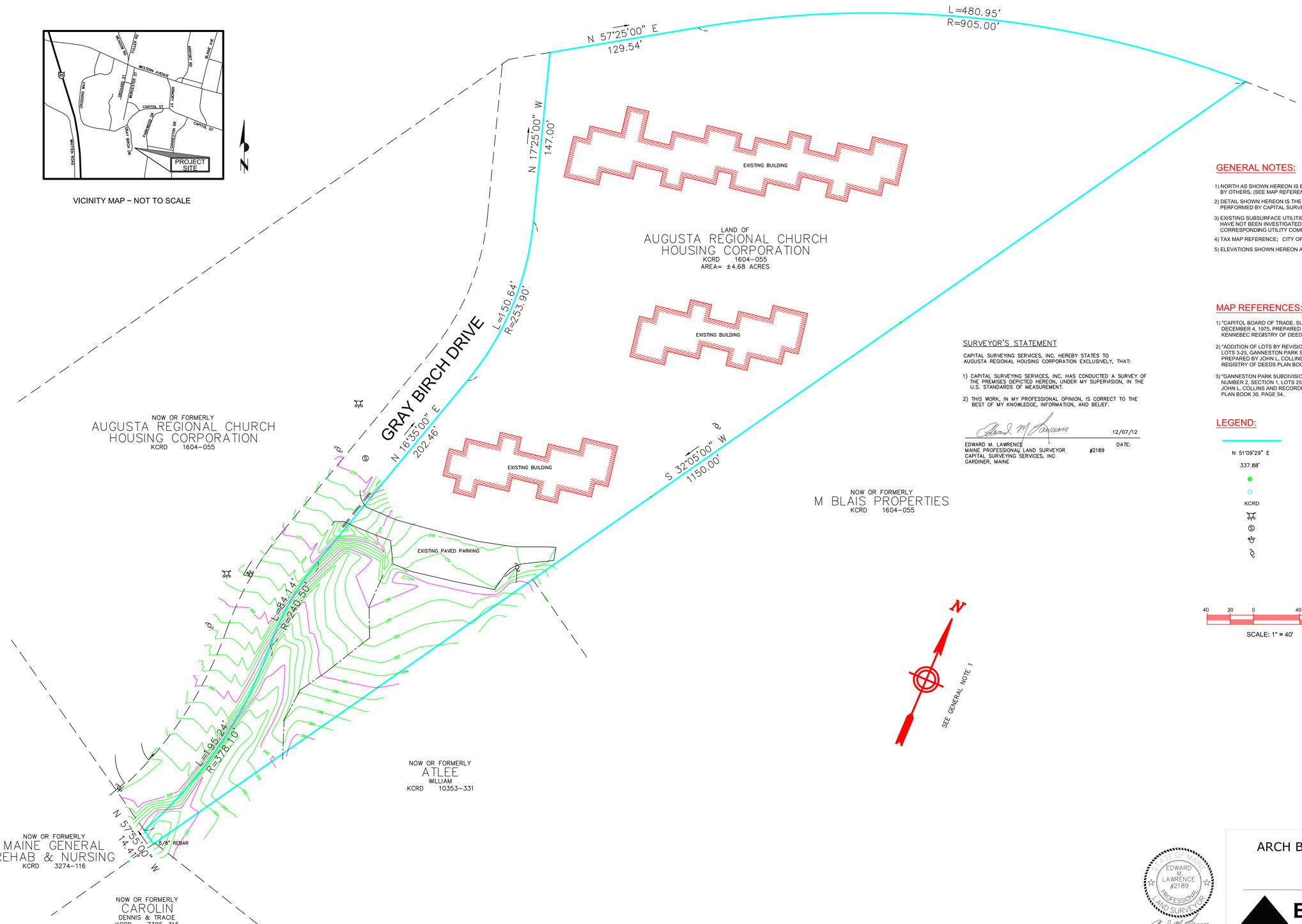
REVISION NOTES: ORIGINAL ISSUE.

CLIENT DATA	BDC JOB ORDER(S)	BDC PROJECT(S)
SITE NAME: AUGUSTA	T2–014	AB–02
SITE NUMBER: N/A		

DRAWING NUMBER AB-02_SUR-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

VICINITY MAP ~ NOT TO SCALE



GENERAL NOTES:

1) NORTH AS SHOWN HEREON IS BASED UPON TRUE NORTH AS OBSERVED BY OTHERS, (SEE MAP REFERENCE 1)

2) DETAIL SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY PERFORMED BY CAPITAL SURVEYING SERVICES, INC. DECEMBER 5, 2012.

3) EXISTING SUBSURFACE UTILITIES, IF ANY, OTHER THAN THOSE SHOWN HEREON HAVE NOT BEEN INVESTIGATED, VERIFIED OR FIELD LOCATED. CONTACT CORRESPONDING UTILITY COMPANIES FOR ANY ADDITIONAL INFORMATION.

4) TAX MAP REFERENCE: CITY OF AUGUSTA TAX MAP 90 LOT 23B

5) ELEVATIONS SHOWN HEREON ARE FROM AN ASSUMED DATUM.

MAP REFERENCES:

1) "CAPITOL BOARD OF TRADE, SUBDIVISION OF DAVIS LOT (SO CALLED)" DATED DECEMBER 4, 1975. PREPARED BY OLIVER G. COULLING AND RECORDED IN THE KENNEBEC REGISTRY OF DEEDS PLAN BOOK 50, PAGE 08.

2) "ADDITION OF LOTS BY REVISION, LOTS 21-25, MAY 6, 1965. PLAT NUMBER ONE LOTS 3-25, GANNESTON PARK SUBDIVISION, AUGUSTA, MAINE", DATED JUNE 15, 1984. PREPARED BY JOHN L. COLLINS AND RECORDED IN THE KENNEBEC COUNTY REGISTRY OF DEEDS PLAN BOOK 30, PAGE 18.

3) "GANNESTON PARK SUBDIVISION, AUGUSTA, MAINE. PLAN OF DEVELOPMENT AREA NUMBER 2, SECTION 1, LOTS 25-42 INCL" DATED APRIL 5, 1965. PREPARED BY JOHN L. COLLINS AND RECORDED IN THE KENNEBEC COUNTY REGISTRY OF DEEDS PLAN BOOK 30, PAGE 54.

SURVEYOR'S STATEMENT

CAPITAL SURVEYING SERVICES, INC. HEREBY STATES TO AUGUSTA REGIONAL HOUSING CORPORATION EXCLUSIVELY, THAT:

1) CAPITAL SURVEYING SERVICES, INC. HAS CONDUCTED A SURVEY OF THE PREMISES DEPICTED HEREON, UNDER MY SUPERVISION, IN THE U.S. STANDARDS OF MEASUREMENT.

2) THIS WORK, IN MY PROFESSIONAL OPINION, IS CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

12/07/12

EDWARD M. LAWRENCE
MAINE PROFESSIONAL LAND SURVEYOR #2189
CAPITAL SURVEYING SERVICES, INC
GARDINER, MAINE

DATE:

LEGEND:

	PROPERTY LINE
N 51°09'29" E	MEASURED BEARING
337.88'	MEASURED DISTANCE
●	FOUND 1" IRON PIPE UNLESS OTHERWISE NOTED
○	REBAR CAPPED PLS #2189 TO BE SET
KCRD	KENNEBEC COUNTY REGISTRY OF DEEDS
	FIRE HYDRANT
	SEWER MANHOLE
	WATER SHUTOFF
	UTILITY POLE

40 20 0 40 80

SCALE: 1" = 40'

STATE OF MAINE
EDWARD M. LAWRENCE #2189
PROFESSIONAL LAND SURVEYOR

CAPITAL SURVEYING SERVICES INC.
EDWARD M. LAWRENCE, PLS
11 MAINE AVENUE
GARDINER, MAINE 04345 207.582.1800

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
PLOT PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_SUR-1A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	DRR	MJM	EML	MW

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

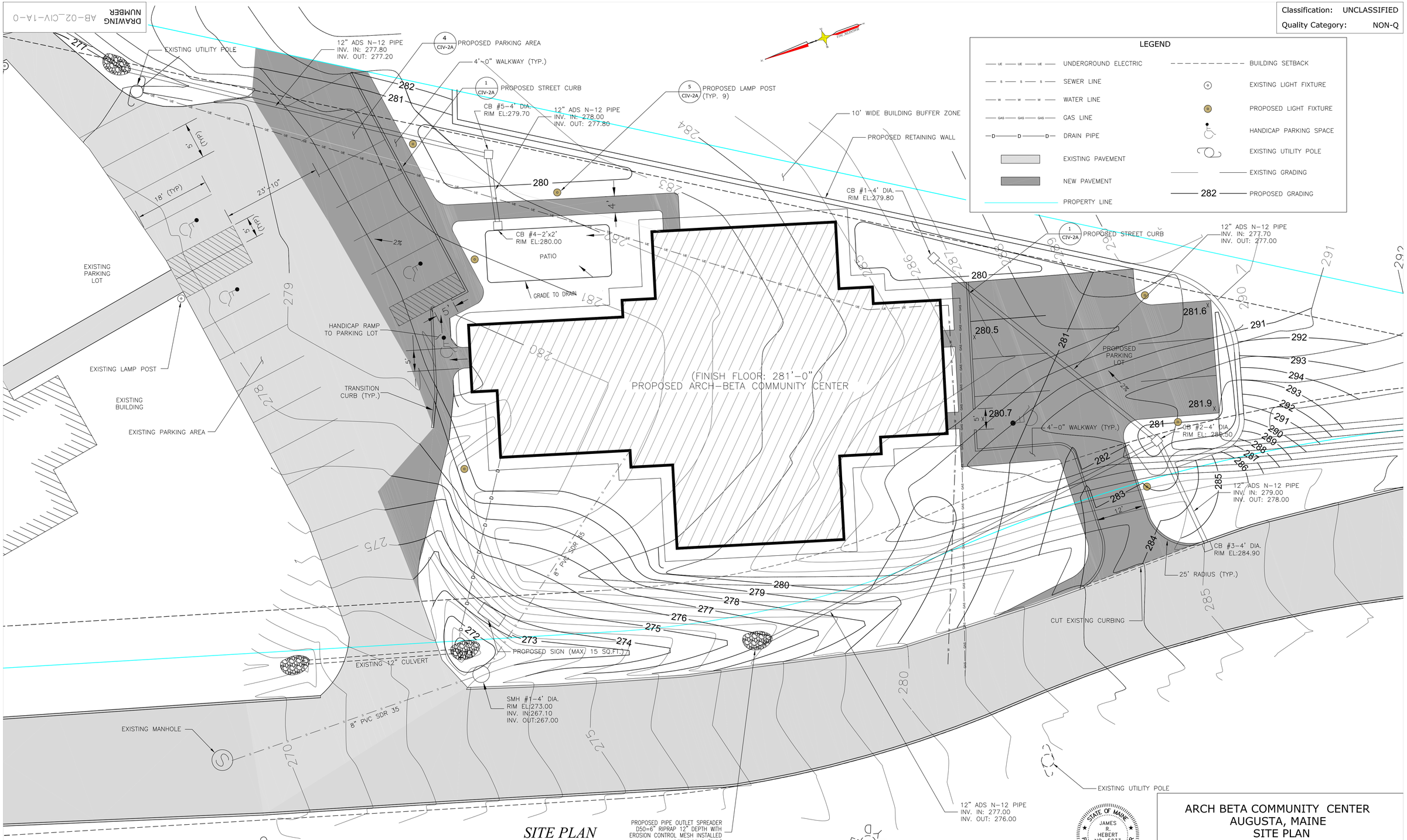
BDC: P/DRAFTING/AB/AB-02/AB-02_SUR-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_CIV-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q



SITE PLAN

SCALE: 1"=10'

NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR WATER AND SEWER LOCATIONS IN BUILDING.
2. GRADE TO DRAIN AWAY FROM BUILDING ALL AROUND.

STATE OF MAINE
JAMES R. HEBERT
NO. 5233
LICENSED
PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
SITE PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_CIV-1A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_CIV-1A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	11/14/13	AMD	MJM	AMC	JRH

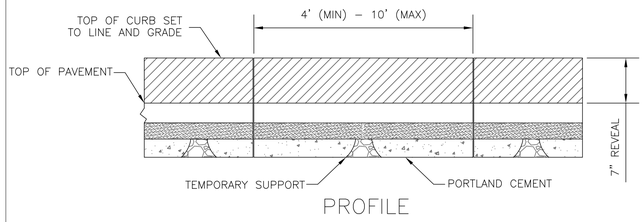
REVISION NOTES: ORIGINAL ISSUE.

BLACK DIAMOND CONSULTANTS, INC.
JAMES R. HEBERT, PE
312 WATER STREET
GARDINER, MAINE 04345 207.582.0056

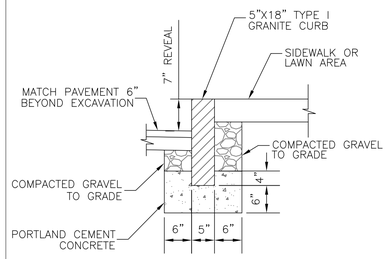
BDC PROJECT(S)	BDC PROPOSAL(S)
ARCH-01	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA



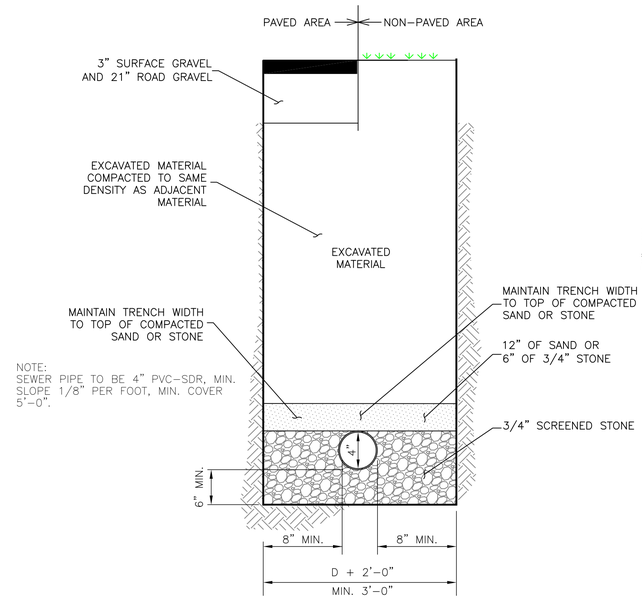
PROFILE



SECTION

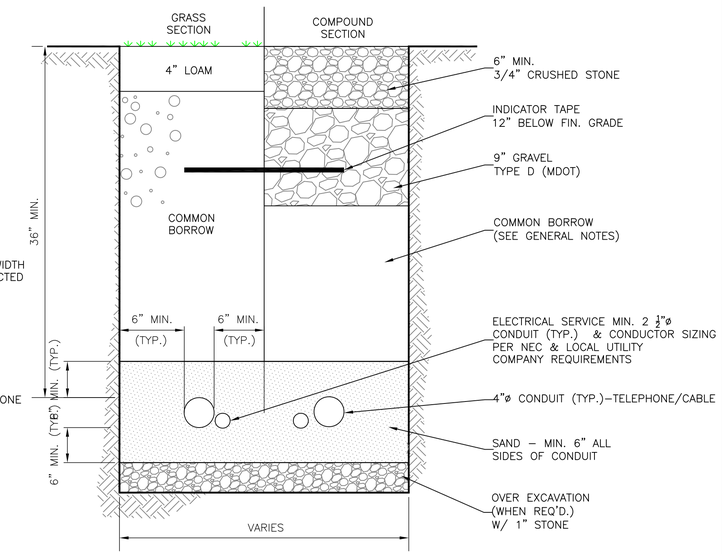
NOTE:
1. CURBS SHALL BE SET TO LINE AND GRADE UPON TEMPORARY SUPPORT PADS.
2. AFTER INSPECTION AND APPROVAL BY THE CITY ENGINEER, THE CURB SHALL BE BACKFILLED WITH PORTLAND CEMENT CONCRETE AND ALLOWED TO CURE.
3. THE PORTLAND CEMENT CONCRETE SHALL CONSIST OF 2500 PSI CONCRETE.
4. ONCE THE CONCRETE HAS CURED, THEN THE CURB MAY BE BACKFILLED TO FINAL GRADE.
5. SPACING BETWEEN CURBS SHALL BE 1/4"
6. A STRIP OF GEOTEXTILE SHALL BE PLACED OVER THE CURB JOINT ON THE REAR OF THE CURB.

4 CIV-1A **GRANITE CURBING DETAIL**
SCALE: NTS

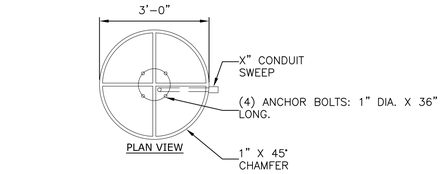


NOTE:
SEWER PIPE TO BE 4" PVC-SDR, MIN. SLOPE 1/8" PER FOOT, MIN. COVER 5'-0".

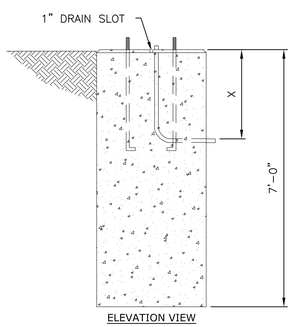
7 CIV-1A **SEWER TRENCH SECTION**
SCALE: NTS



8 CIV-1A **ELECTRICAL/TELEPHONE/CABLE TRENCH SECTION**
SCALE: NTS



PLAN VIEW

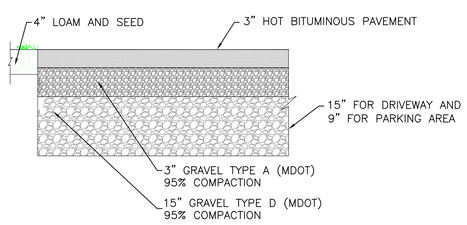


ELEVATION VIEW

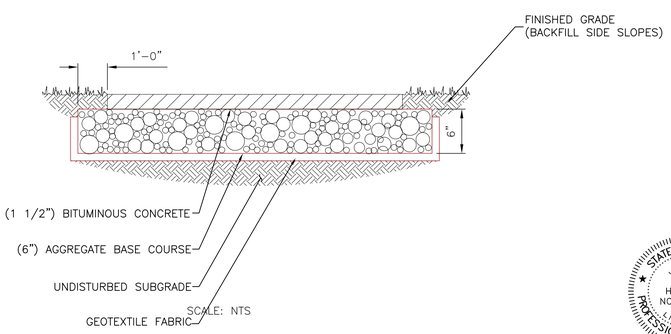
GENERAL NOTES:
1. CONCRETE: 28 DAY COMPRESSIVE STRENTH = 5,000 PSI, TYPE III.
2. REBAR: GRADE 60 PER ASTM A615.
3. SWEEP WILL NOT EXTEND FURTHER THAN 3" FROM SIDE OF BASE.

3 CIV-1A **LAMP BASE DETAIL**
SCALE: NTS

NOTE: GRADE PARKING LOT SO THERE IS NO STANDING WATER, MIN. PITCH TO BE 1/4" PER FOOT



4 CIV-1A **ENTRANCE/PARKING LOT SECTION**
SCALE: NTS



SCALE: NTS

5 CIV-1A **SIDEWALK PAVING DETAIL**

STATE OF MAINE
JAMES R. HEBERT
NO. 5233
LICENSED
PROFESSIONAL ENGINEER

BLACK DIAMOND CONSULTANTS, INC.
JAMES R. HEBERT, PE
312 WATER STREET
GARDINER, MAINE 04345 207.582.0056

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/22/13	AMD	MJM	AMC	JRH

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
SITE DETAILS

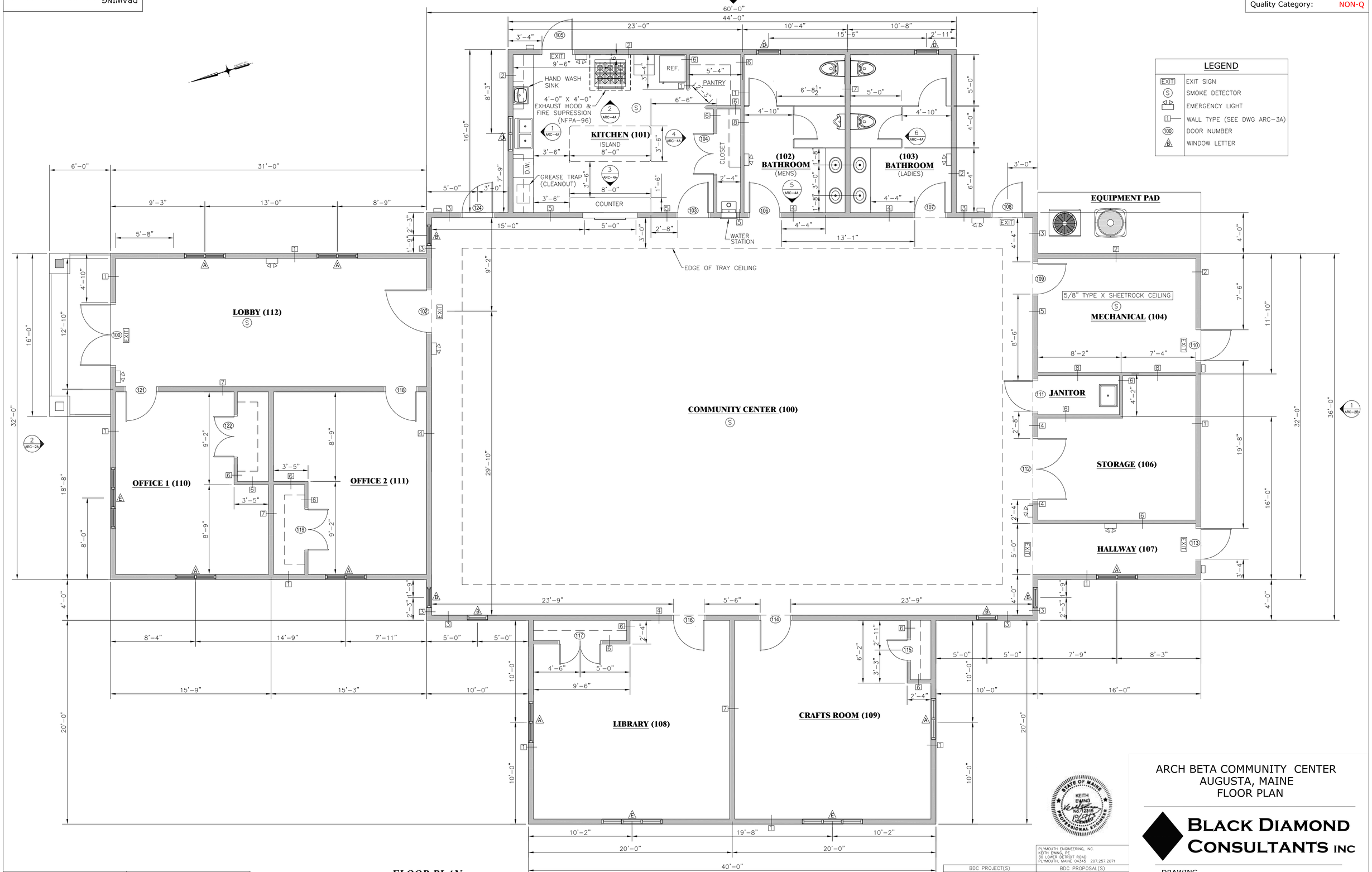
BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_CIV-2A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_CIV-2A-0

DRAWING NUMBER AB-02_ARC-1A-B

Classification: UNCLASSIFIED
Quality Category: NON-Q



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

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

STATE OF MAINE KEITH EWING No. 12316 PROFESSIONAL ENGINEER

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB-02
BDC PROPOSAL(S): 12-014
BDC JOB ORDER(S)
CLIENT DATA
SITE NAME: AUGUSTA

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
FLOOR PLAN

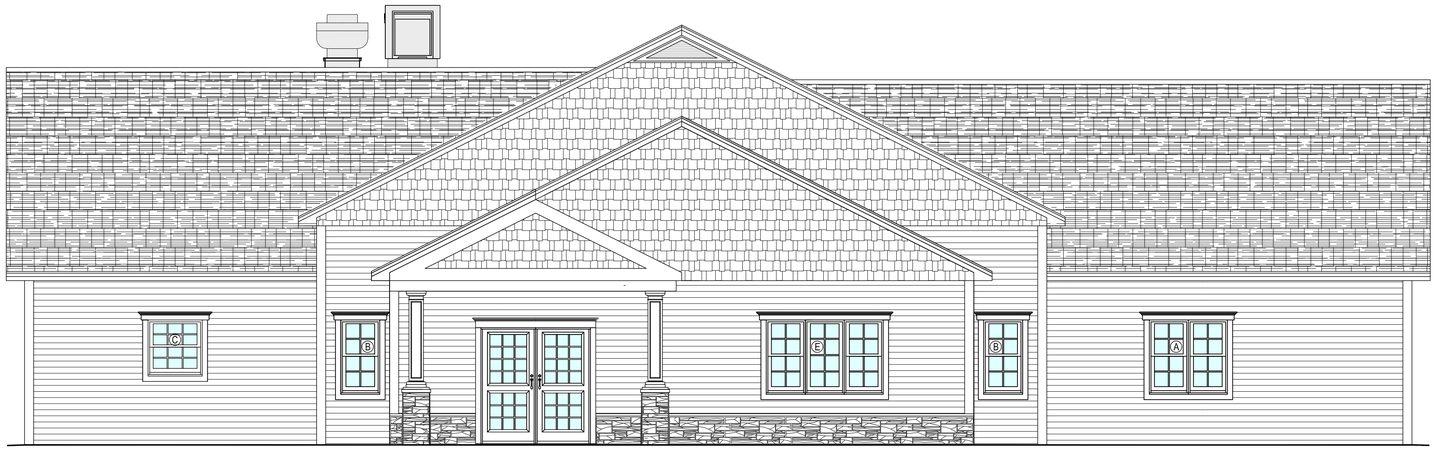
BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-1A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ARC-1A-0

DRAWING NUMBER AB-02_ARC-2A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

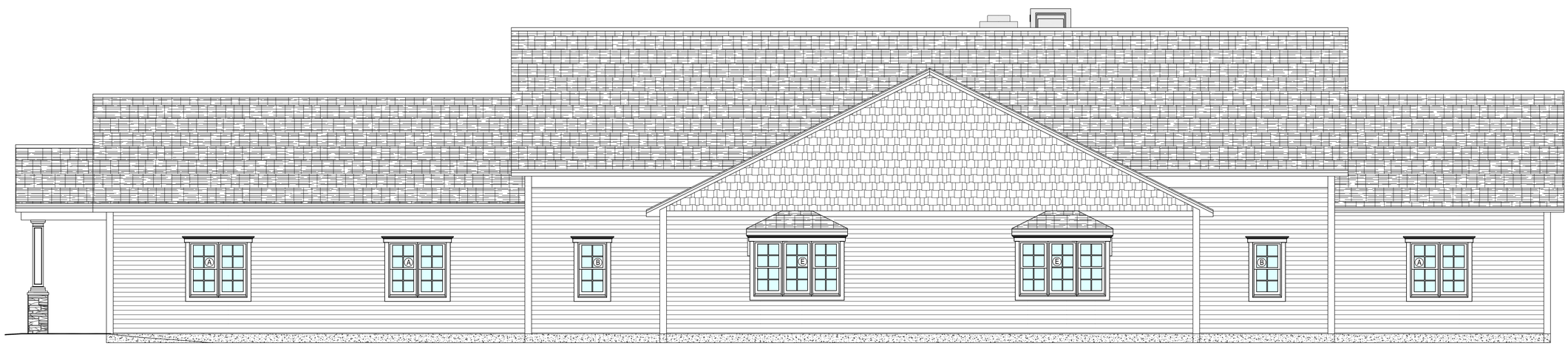


2 ARC-1A **NORTH ELEVATION**
SCALE: $\frac{1}{4}$" = 1'-0"

NOTES: (MATERIALS)

WINDOWS:
PARADIGM PREMIUM, WHITE, WITH FLAT GRIDS, LOW E GLASS, INSECT SCREEN, BRICK MOLD AND CROWN MOLD TRIM
ROOFING:
CERTAINTEED HERITAGE 50, RUSTIC BLACK, CONTINUOUS ROOF VENT.
SIDING:
CERTAINTEED MONOGRAM 46, 4" VINYL SIDING, CHARCOAL GRAY. ALL GABLE ENDS CEDAR IMPRESSIONS, DOUBLE 7" STAGGERED, CHARCOAL GRAY.
SIDING TRIM:
CERTAINTEED ONE-PIECE CORNER, 5/4 X 6". WHITE.
GABLE END VENTS:

TRIM BOARD:
CERTAINTEED 10" WIDE, WOODGRAIN SMOOTH, WHITE.
WAINSCOT:
XTERRIA STONE LEDGE TRIM, LEWISTON CREST.
COLUMNS:
6"x6" P.T. WITH HB&G PERMA WRAP, 10" SQUARE RAISED PANEL, WHITE.



1 ARC-1A **WEST ELEVATION**
SCALE: $\frac{1}{4}$" = 1'-0"

STATE OF MAINE
KEITH EWING
No. 12316
10/17/13
PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
NORTH AND WEST ELEVATION

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-2A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

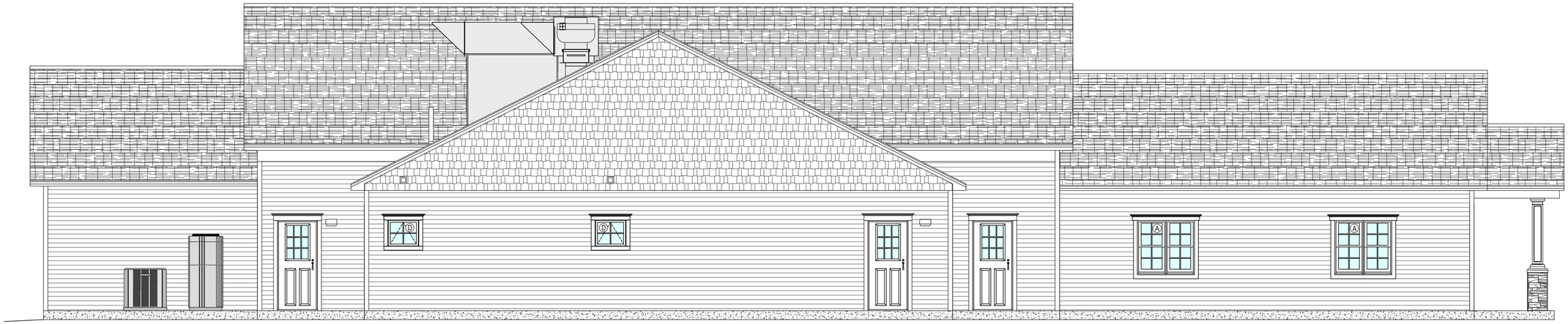
BDC PROJECT(S): AB-02
BDC PROPOSAL(S): 12-014
BDC JOB ORDER(S):
CLIENT DATA
SITE NAME: AUGUSTA

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC: P/DRAFTING/AB/AB-02/AB-02_ARC-2A-0

DRAWING NUMBER AB-02_ARC-2B-0

Classification: UNCLASSIFIED
Quality Category: NON-Q



EAST ELEVATION
SCALE: $\frac{1}{4}$" = 1'-0"

SOUTH ELEVATION
SCALE: $\frac{1}{4}$" = 1'-0"

NOTES: (MATERIALS)

WINDOWS:
PARADIGM PREMIUM, WHITE, WITH FLAT GRIDS, LOW E GLASS, INSECT SCREEN, BRICK MOLD AND CROWN MOLD TRIM
ROOFING:
CERTAINTEED HERITAGE 50, RUSTIC BLACK, CONTINUOUS ROOF VENT.
SIDING:
CERTAINTEED MONOGRAM 46, 4" VINYL SIDING, CHARCOAL GRAY. ALL GABLE ENDS CEDAR IMPRESSIONS, DOUBLE 7" STAGGERED, CHARCOAL GRAY.
SIDING TRIM:
CERTAINTEED ONE-PIECE CORNER, 5/4 X 6". WHITE.
GABLE END VENTS:

TRIM BOARD:
CERTAINTEED 10" WIDE, WOODGRAIN SMOOTH, WHITE.
WAINSCOT:
XTERRIA STONE LEDGE TRIM, LEWISTON CREST.
COLUMNS:
6"x6" P.T. WITH HB&G PERMA WRAP, 10" SQUARE RAISED PANEL, WHITE.

STATE OF MAINE
KEITH EWING
No. 12316
10/17/13
LICENSED
PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
SOUTH AND EAST ELEVATIONS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-2B-0

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-01	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

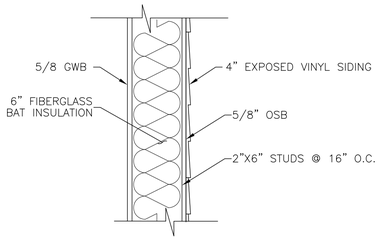
REVISION NOTES: ORIGINAL ISSUE.

Classification: UNCLASSIFIED
Quality Category: NON-Q

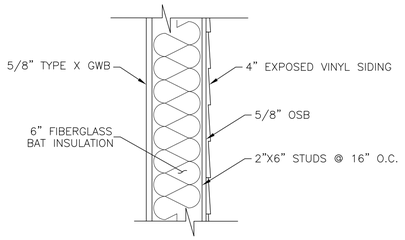
SITE NAME: AUGUSTA

BDC: P/DRAFTING/AB/AB-02/AB-02_ARC-2B-0

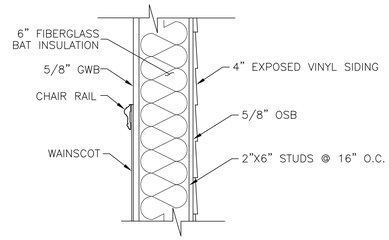
Classification: UNCLASSIFIED
Quality Category: NON-Q



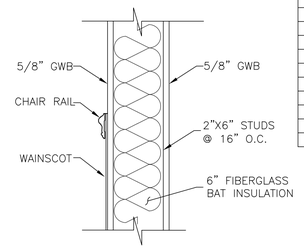
TYPE 1 WALL
SCALE: 1½" = 1'-0"



TYPE 2 WALL
SCALE: 1½" = 1'-0"



TYPE 3 WALL
SCALE: 1½" = 1'-0"



TYPE 4 WALL
SCALE: 1½" = 1'-0"

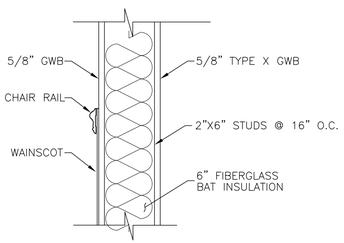
FINISH SCHEDULE

ROOM #	LOCATION	WALLS N	WALLS E	WALLS S	WALLS W	WAINSCOT	CEILING MAT.	CEILING HT.	CEILING MAT.	CEILING HT.	FLOOR
100	COMMUNITY	PTD	PTD	PTD	PTD	YES	ACT	10'	SR	8'	VNL – JOHNSONITE HIGH PERFORMANCE RESILIENT PLANK
101	KITCHEN	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PRCN – RAGNO RIVERSTONE 13" X 13" GLAZED
102	BATHROOM	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PRCN – RAGNO RIVERSTONE 13" X 13" GLAZED
103	BATHROOM	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PRCN – RAGNO RIVERSTONE 13" X 13" GLAZED
104	MECHANICAL	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PAINTED EPOXY
105	JANITOR	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PAINTED EPOXY
106	STORAGE	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	PAINTED EPOXY
107	HALLWAY	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	VNL – JOHNSONITE HIGH PERFORMANCE RESILIENT PLANK
108	LIBRARY	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	CAR – TANDUS
109	CRAFTS	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	CAR – TANDUS
110	OFFICE 1	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	CAR – TANDUS
111	OFFICE 2	PTD	PTD	PTD	PTD	NO	ACT	8'	SR	7'	CAR – TANDUS
112	LOBBY	PTD	PTD	PTD	PTD	NO	ACT		SR		CAR – PORTICO DOMINATOR DURABLE CARPET

NOTES:
1. ALL GWB TO BE PAINTED 1 COAT PRIMER AND 2 COATS FINISH.
2. ALL FLOORS SUPPLIED WITH VINYL COVE BASE – COLOR BY OWNER.

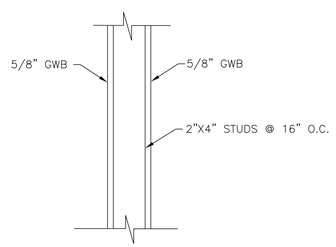
FINISH SCHEDULE ABBREVIATIONS

ACT – ACOUSTIC CEILING TILE
CAR – CARPET
GWB – GYPSUM BOARD
PTD – PAINTED
VNL – VINYL
EP – EPOXY PAINT
PRCN – PORCELAIN
SR – SHEETROCK

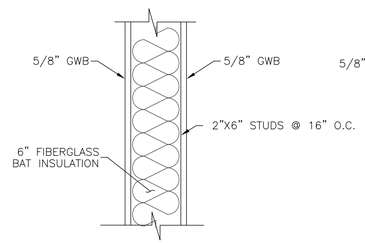


1HR. RATED 309

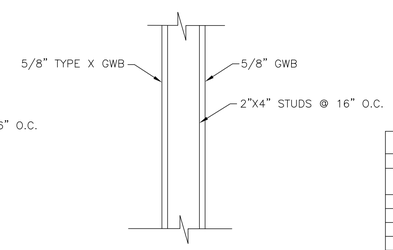
TYPE 5 WALL
SCALE: 1½" = 1'-0"



TYPE 6 WALL
SCALE: 1½" = 1'-0"



TYPE 7 WALL
SCALE: 1½" = 1'-0"



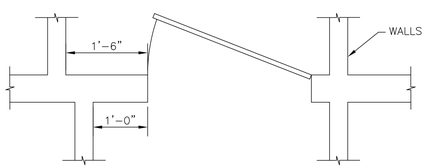
TYPE 8 WALL
SCALE: 1½" = 1'-0"

WINDOW SCHEDULE

WINDOW #	TYPE	MAKE	MODEL	R.O. WIDTH	R.O. HEIGHT	NOTES
A	DOUBLE HUNG	PARADIGM	DH-2448-2	47 1/2"	48"	
B	DOUBLE HUNG	PARADIGM	DH-2448	24"	48"	
C	DOUBLE HUNG	PARADIGM	DH-3636	36"	36"	
D	AWNING	PARADIGM	A2424	24"	24"	
E	DOUBLE HUNG	PARADIGM	MULLED			

DOOR SCHEDULE

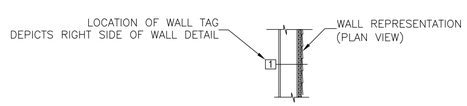
	DOOR					FRAME		ACCESSORIES	
NO.	LOCATION	SIZE	THK	MAT	TYPE	MAT	TYPE	HARDWARE	NOTES
100	LOBBY	(2)3'-0" X 6'-8"	1 3/4"	MTL.	E	MTL.	A	T– H– EH – KP – WS –FB – C – CR	INSULATED
101									
102	COMMUNITY	3'-0" X 6'-8"	1 3/4"	WOOD	C	MTL.	A	H – C – KP – EH – SM	45 MIN. RATED
103	KITCHEN	3'-0" X 6'-8"	1 3/4"	WOOD	A	MTL.	A	H – C – DS	–
104	KITCHEN CLOSET	4'-0" X 6'-8"	1 3/4"	WOOD	B	WOOD	A	H – DS	–
105	KITCHEN EXT.	3'-0" X 6'-8"	1 3/4"	MTL.	A	MTL.	A	T – H – EH – KP – WS – C	INSULATED
106	BATHROOM	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	H – C – PP	–
107	BATHROOM	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	H – C – PP	–
108	COMMUNITY EXT.	3'-0" X 6'-8"	1 3/4"	MTL.	A	WOOD	B	T – H – EH – WS – C	–
109	MECHANICAL	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	SM – C – L4 – H – DS	45 MIN. RATED
110	MECHANICAL EXT.	3'-0" X 6'-8"	1 3/4"	MTL.	A	MTL.	B	T – H – L4 – WS – C	INSULATED
111	JANITOR	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	H – L4 – KP	–
112	STORAGE	6'-0" X 6'-8"	1 3/4"	WOOD	F	WOOD	B	H – L3 – FB – KP – DS	45 MIN. RATED
113	HALLWAY EXT.	3'-0" X 6'-8"	1 3/4"	MTL.	A	MTL.	A	T – H – DS – L4 – WS – C	INSULATED
114	CRAFTS	3'-0" X 6'-8"	1 3/4"	WOOD	A	WOOD	B	H – C – KP – L4	–
115	CRAFTS CLOSET	2'-0" X 6'-8"	1 3/4"	WOOD	B	WOOD	B	H – L1– DS	–
116	LIBRARY	3'-0" X 6'-8"	1 3/4"	WOOD	A	WOOD	B	H – C – KP L4	–
117	LIBRARY CLOSET	(2)2'-6" X 6'-8"	1 3/4"	WOOD	G	WOOD	B	H – L1 – LB	–
118	OFFICE 2	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	H – L4 –DS	–
119	OFFICE 2 CLOSET	4'-0" X 6'-8"	1 3/4"	WOOD	D	WOOD	B	H – L3	–
120									
121	OFFICE 1	3'-0" X 6'-8"	1 3/4"	WOOD	C	WOOD	B	H – L4 – DS	–
122	OFFICE 1 CLOSET	4'-0" X 6'-8"	1 3/4"	WOOD	D	WOOD	B	H – LS – FB	–
123									
124	COMMUNITY EXT.	3'-0" X 6'-8"	1 3/4"	MTL.	A	MTL.	B	T – H – L4 – WS – C – CR	INSULATED



DOOR CLEARANCES (TYP.)
SCALE: 3/4" = 1'-0"

NOTE:
1. MINIMUM DISTANCES REQUIRED ON ALL DOORS.

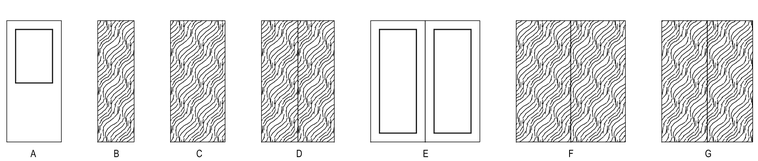
LEGEND



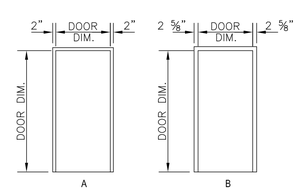
DOOR HARDWARE SCHEDULE

T – ALUMINUM THRESHOLD, 6" W X 1/2" H, LENGTH TO FIT DOOR OPENING
C – CLOSER LCN ADA COMPLIANT
DS – DOOR STOP: GLYNN-JOHNSON FLOOR MOUNTED
EH – EXIT HARDWARE SARGENT
H – HINGES, 1-1/2" PAIR, 4-1/2", S.S. BALL BEARING NON-REMOVABLE PINS ON EXTERIOR, FULL MORTISE
KP – KICK PLATE: HAGAR, 14" HIGH, SS FINISH
L1 – LOCKSET: STORAGE FUNCTION, CYLINDER LOCK WITH LEVER HANDLE
L2 – LOCKSET: PRIVACY FUNCTION, CLINDER LOCK WITH LEVER HANDLE
L3 – LOCKSET: PASSAGE FUNCTION, CYLINDER LOCK WITH LEVER HANDLE
L4 – LOCKSET: CLASSROOM FUNCTION, CYLINDER LOCK WITH LEVER HANDLE
WS – WEATHER STRIP: ZERO, TYPE 312 AT JAMBS & HEAD
FB – FLUSH BOLT WITH PULL INTERIOR?
PP – PUSH PLATE
SS – SMOKE SEAL
CR – CARD READER

NOTE:
1. ALL KEYING TO BE COORDINATED WITH OWNER PRIOR TO ORDERING HARDWARE ITEMS.



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



DOOR FRAME TYPE
SCALE: 1/4" = 1'-0"

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ARCHITECTURAL DETAILS & SCHEDULES

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-3A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ARC-3A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	09/27/13	AMD	MJM	AMC	KE

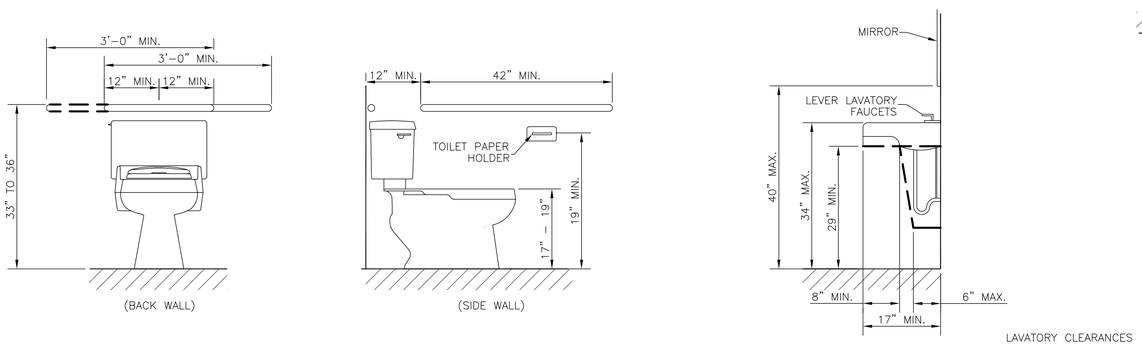
REVISION NOTES: ORIGINAL ISSUE.

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

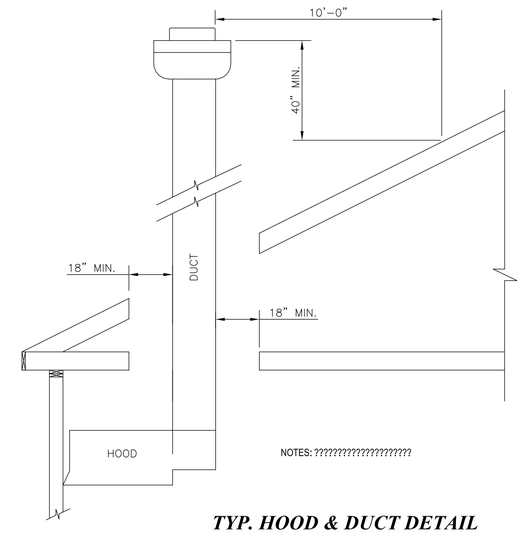
Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA



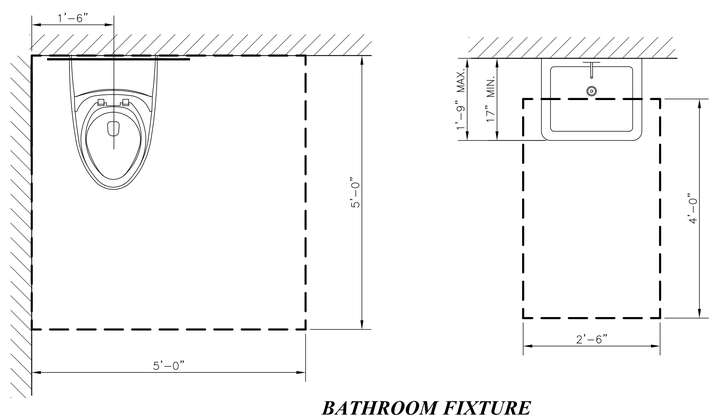
FIXTURE DETAILS

NOT TO SCALE



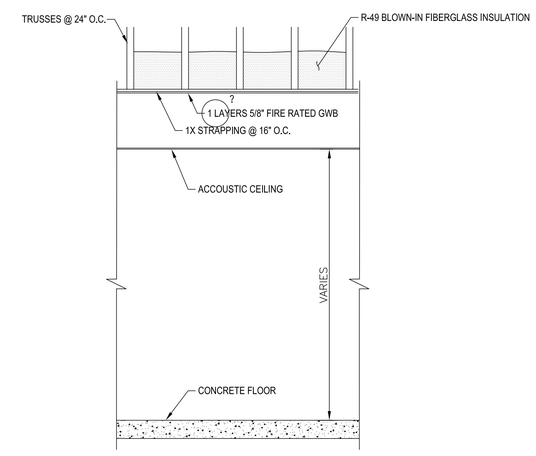
TYP. HOOD & DUCT DETAIL

NOT TO SCALE



BATHROOM FIXTURE CLEAR FLOOR SPACE PLAN

NOT TO SCALE



TYP. FLOOR/CEILING SECTION

NOT TO SCALE

TOILET ROOM ACCESSORY MOUNTING HEIGHTS (NOT ALL USED)

GRAB BARS	33" TO 36"
TOILET TISSUE HOLDER	19" MINIMUM HT.
TOWEL BAR or PAPER TOWEL DISPENSER	48" MAXIMUM HT.
PAPER TOWEL DISPOSAL	48" TO OPENING OR MECHANISM
SOAP DISPENSER	48" MAXIMUM HT.
SANITARY NAPKIN DISPOSAL	48" MAXIMUM HT. TO OPENING
SANITARY NAPKIN DISPENSER	48" TO MECHANISM
MIRROR	40" MAXIMUM TO LOWER EDGE
SHELVES or STORAGE CABINET	48" MAXIMUM HT.
LIGHT SWITCHES	48" MAXIMUM HT.
EXHAUST FAN SWITCH	48" MAXIMUM HT.
COAT HOOKS	48" MAXIMUM HT.
FIRE ALARM PULL	48" MAXIMUM HT.
THERMOSTAT	48" MAXIMUM HT.

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10-21-13	AMD	AMC	MJT	KE

REVISION NOTES: ORIGINAL ISSUE.

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ARCHITECTURAL DETAILS 2

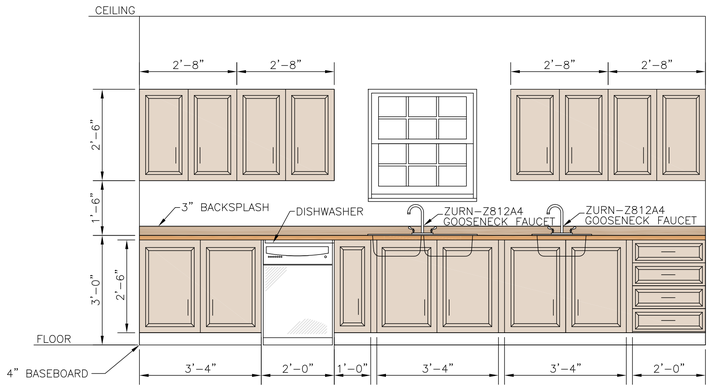
BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-3B-0

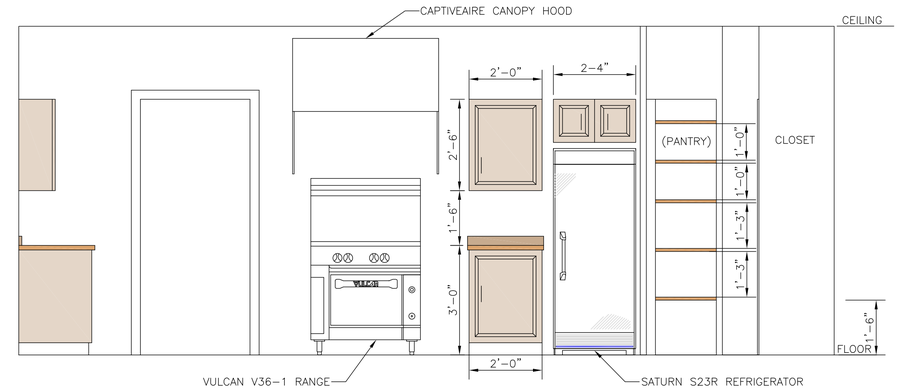
BDC: P/DRAFTING/AB/AB-02/ARC-3B-0

DRAWING NUMBER AB-02_ARC-4A-0

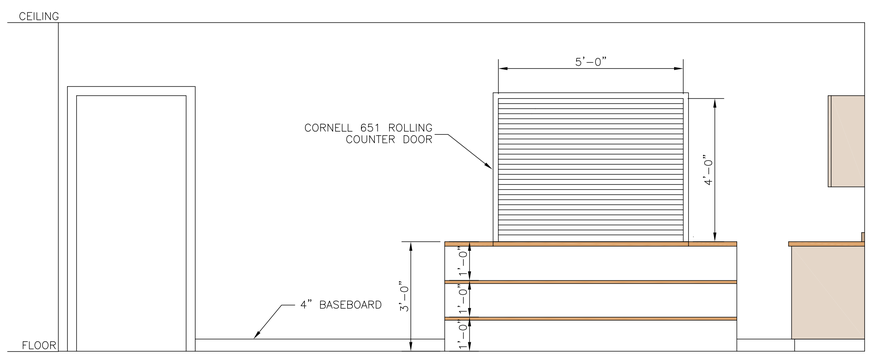
Classification: UNCLASSIFIED
Quality Category: NON-Q



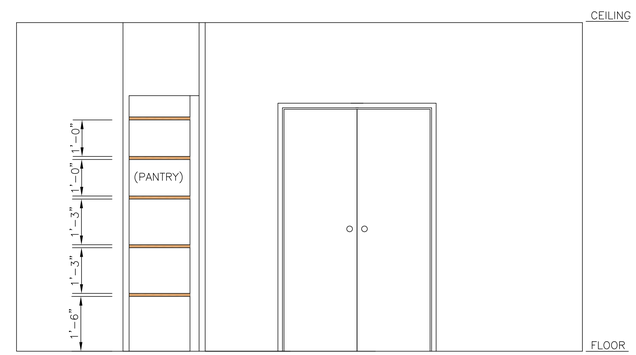
1 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"



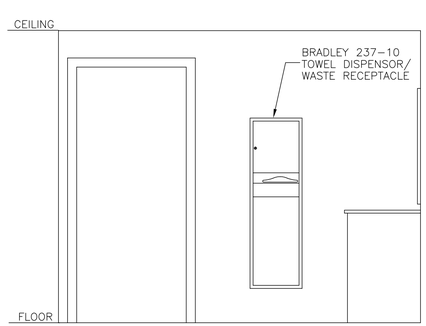
2 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"



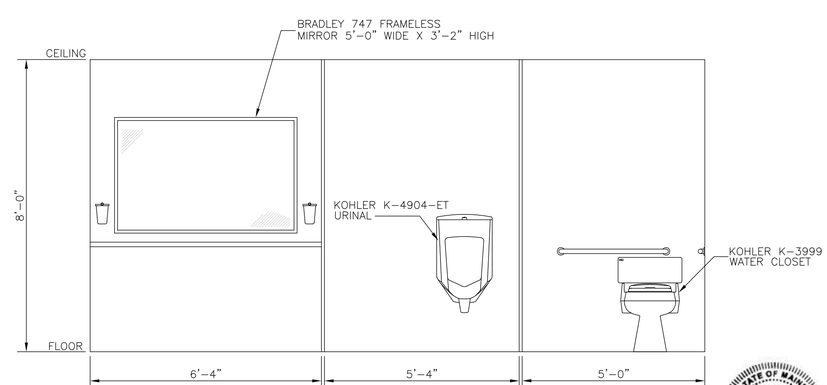
3 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"



4 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"



5 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"



6 ARC-1A **ELEVATION VIEW**
SCALE: 1/2" = 1'-0"

STATE OF MAINE
KEITH EWING
No. 12316
PROFESSIONAL ENGINEER

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	AMC	MJT	KE

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
INTERIOR DETAILS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ARC-4A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ARC-4A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

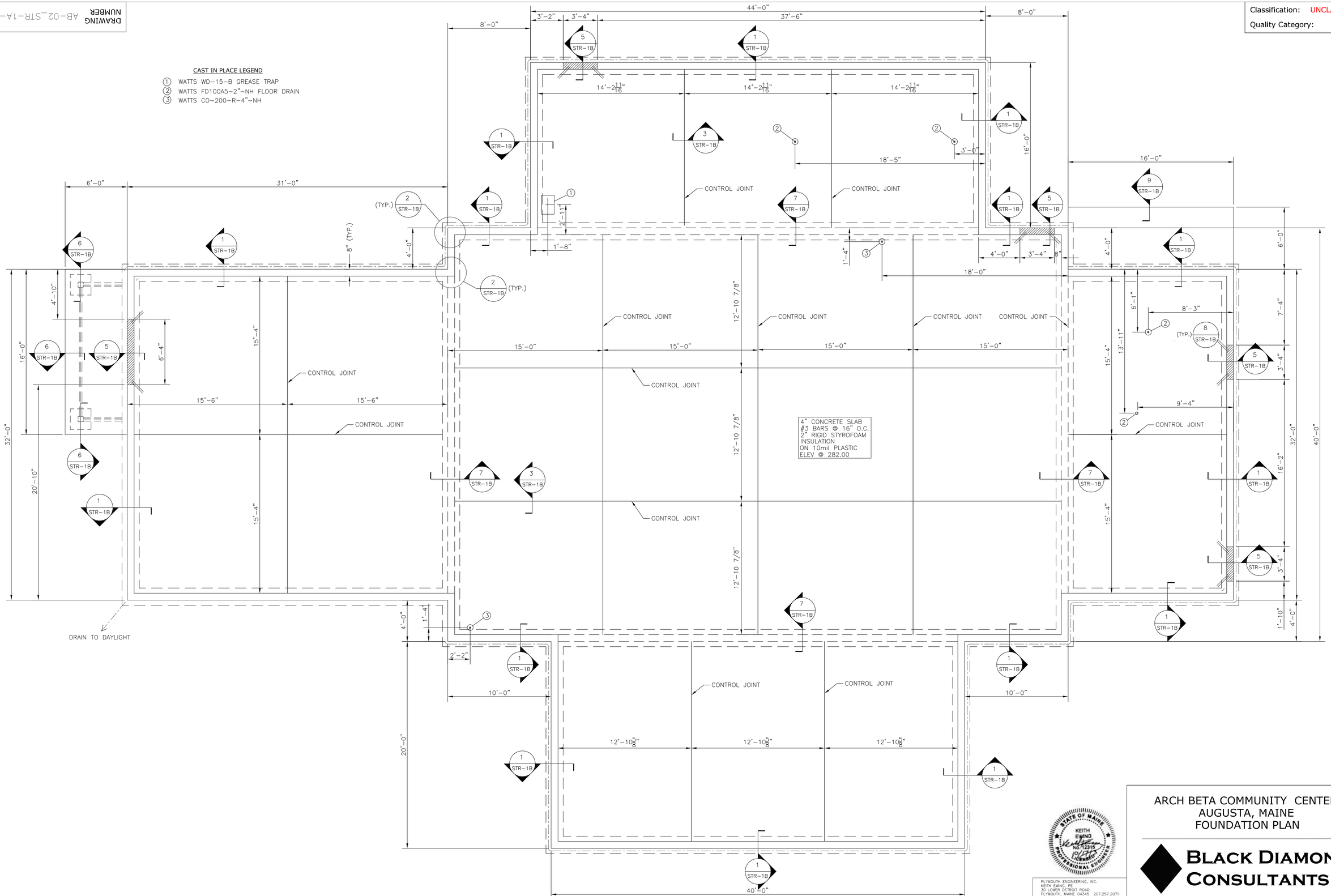
SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_STR-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

CAST IN PLACE LEGEND

1. WATTS WD-15-B GREASE TRAP
2. WATTS FD100A5-2"-NH FLOOR DRAIN
3. WATTS CO-200-R-4"-NH



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

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
FOUNDATION PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-1A-0

STATE OF MAINE — KEITH EWING — No. 12315 — LICENSED — PROFESSIONAL ENGINEER

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

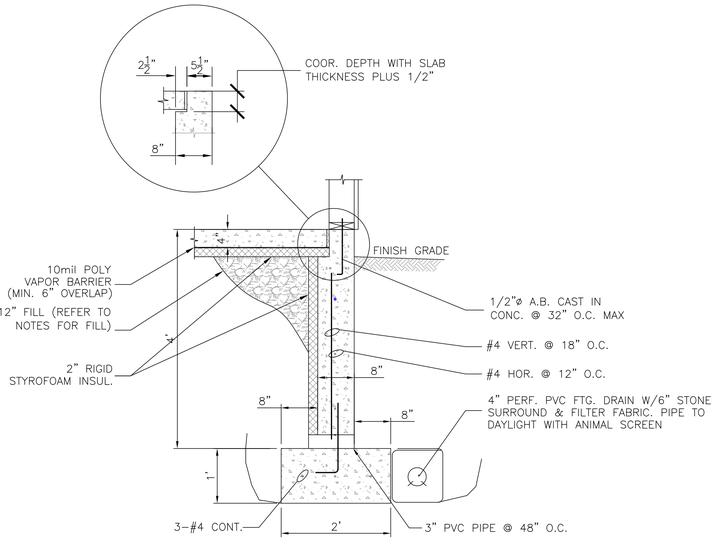
REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB-02
BDC PROPOSAL(S): 12-014
BDC JOB ORDER(S)
CLIENT DATA
SITE NAME: AUGUSTA

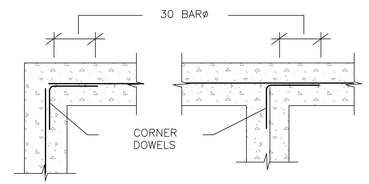
Classification: UNCLASSIFIED
Quality Category: NON-Q
SITE NAME: AUGUSTA

BDC: P/DRAFTING/AB/AB-02/AB-02_STR-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

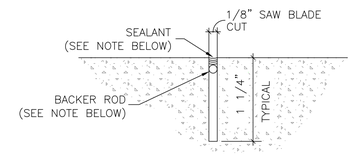


1 / STR-1A **FOUNDATION WALL SECTION**
SCALE: 3/4" = 1'-0"



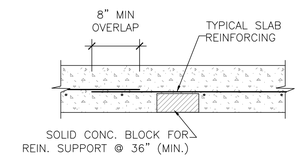
2 / - **TYP. CORNER REINF**
SCALE: 3/4" = 1'-0"

NOTE:
1. VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY

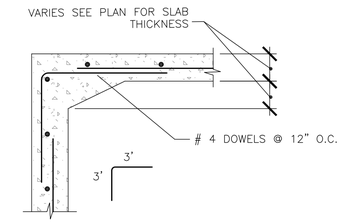


3 / - **CONT. JOINT DETAIL**
SCALE: 3/4" = 1'-0"

NOTES:
1. URETHANE SEALANT; SINGLE COMPONENT, NON-SAGGING NON-STAINING, FUNGUS RESISTANT, NON-BLEEDING CAPABLE OF 1000% ELONGATION w/ SERVICE TEMP. RANGE OF -40 TO 180 DEGREES F.
2. BACKER ROD; ROUND, CLOSED POLYETHYLENE FOAM ROD, OVERSIZED 30 TO 50% LARGER THAN JOINT WIDTH.



4 / - **REINF. SUPPORT DETAIL**
SCALE: 3/4" = 1'-0"



5 / - **SECTION @ PASSDOOR**
SCALE: 3/4" = 1'-0"

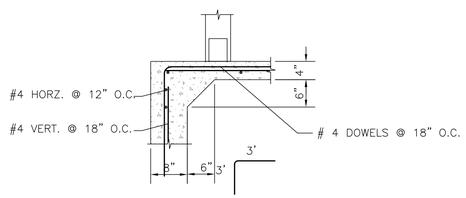
NOTE:
1. SEE TYPICAL WALL SECTION FOR WALL SIZE & REINF.

FOUNDATION AND CONCRETE NOTES:

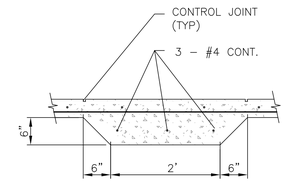
1. REMOVE ALL UNSUITABLE SOILS BENEATH THE BUILDING IF UNSUITABLE MATERIALS ARE FOUND.
2. ALL BUILDING FOOTINGS ARE TO BE FOUNDED ON UNDISTURBED SOIL, CLEAN SOUND LEDGE OR SANDY GRAVEL OR GRAVEL FILL MATERIAL COMPACTED TO 95% STANDARD PROCTOR TEST IN ACCORDANCE WITH ASTM D698.
3. ALL FOUNDATION WORK SHALL BE CARRIED OUT UNDER THE DIRECTION OF THE GEOTECHNICAL CONSULTANT IF NEEDED. IF SOFT OR UNSUITABLE IN-SITU MATERIALS ARE ENCOUNTERED THE GEOTECHNICAL CONSULTANT SHALL BE NOTIFIED AND CORRECTIVE ACTION SHALL BE TAKEN AS DIRECTED. GEOTECHNICAL CONSULTANT SHALL VERIFY THAT WATER TABLE DOES NOT RISE TO AN ELEVATION ABOVE THE UNDERSIDE OF FOOTINGS. – OWNER TO COVER COST OF GEOTECHNICAL IF NECESSARY.
4. CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS OTHERWISE SHOWN ON PLANS.
5. CONSTRUCT FOOTINGS AT LOWER ELEVATION THAN INDICATED ON DRAWINGS IF REQUIRED BY ENGINEER TO REACH FIRM UNDISTURBED SOIL.
6. COMPLETE ALL PLACEMENT OF BELOW GRADE PLUMBING, ELECTRIC, AND OTHER UTILITIES BEFORE PLACEMENT OF FOUNDATIONS. ALL DISTURBED SOIL SHALL BE RECOMPACTED IN LAYERS NOT EXCEEDING 8" THICK.
7. CLEAR CONCRETE COVER OVER REINFORCING (TYPICAL, U.N.O.):
   BOTTOM OF FOOTING: 3 INCHES
   EXTERIOR OF FOUNDATION WALL: 2 INCHES
   INTERIOR OF FOUNDATION WALL: 2 INCHES
8. SLEEVE ALL PIPES THROUGH SLABS AND WALLS INDIVIDUALLY, UNLESS SHOWN OTHERWISE ON DRAWINGS. WHERE PIPES OR DUCTS PENETRATE SLABS OR WALLS.
9. CONTRACTOR WILL CHECK WITH ALL TRADES TO ASSURE CORRECT LOCATION, SIZE, LINE AND ELEVATION OF ALL SLEEVES, BOND-OUTS, ETC.. REQUIRED IN CONCRETE FLOORS AND WALLS.
10. PROVIDE CONTRACTION JOINTS IN FOUNDATION WALL AT 15 FEET MAXIMUM SPACING.
11. ALL ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE A HIGH STRENGTH ADHESIVE SYSTEM BETTER THAN OR EQUAL TO HILTI HIT-HY 150 WITH 6" MINIMUM EMBEDMENT, UNLESS OTHERWISE NOTED ON DRAWINGS. CONCRETE SHALL HAVE OBTAINED A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI PRIOR TO CORING HOLES.
12. STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301, ACI 305 AND ACI 306.1. FOUNDATIONS AND SLABS SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS
13. CONSTRUCT AND ERECT CONCRETE FORM WORK IN ACCORDANCE WITH ACI 301 AND ACI 347
14. STRUCTURAL CONCRETE REINFORCEMENT SHALL CONFORM TO ACI 301 AND CRSI 63, 65, AND MANUAL OF PRACTICE. REINFORCEMENT SHALL BE ASTM A615/A615M, 60 KSI YIELD GRADE; DEFORMED BILLET STEEL BARS, PLAIN FINISH
15. IF OWNER REQUEST, CONCRETE TESTING SHALL BE THE FOLLOWING, TAKE ONE SET OF 3 CYLINDERS FOR EVERY FIFTY CUBIC YARDS OF CONCRETE AND ONE SET OF THREE FOR ALL POURS LESS THAN FIFTY CUBIC YARDS (PER ASTM STANDARDS) – BY OWNER COORDINATE THROUGH CONTRACTOR.

    ONE (1) SLUMP TEST: TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN. MAX SLUMP IS 5"

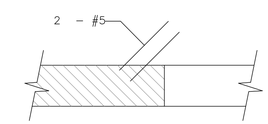
    ONE (1) AIR CONTENT TEST: PERFORMED FOR EACH SET OF TEST CYLINDERS TAKEN. FOUNDATION WALL AND FOOTINGS 5% +/- 1.5% SLAB, 3% +/- 1.5%



6 / - **ENLARGED DETAIL**
SCALE: 3/4" = 1'-0"



7 / - **THICKENED SLAB DETAIL**
SCALE: 3/4" = 1'-0"

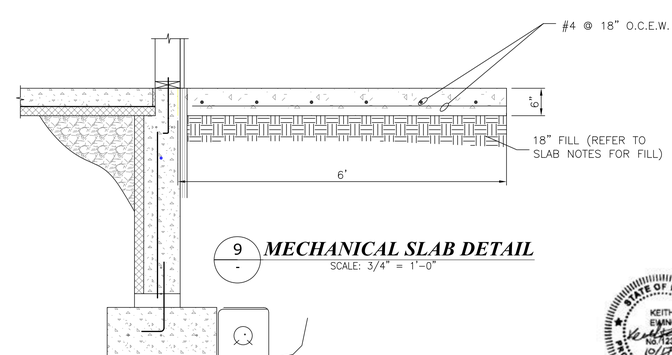


8 / - **SLAB CORNER REINF. DETAIL @ ALL DOORS**
SCALE: 3/4" = 1'-0"

SLAB ON GROUND NOTES:

1. SLAB-ON-GRADE: AS NOTED ON DRAWINGS. ALL BUILDING SLABS ARE TO BE FOUNDED ON CLEAN SOUND LEDGE OR ON SANDY GRAVEL OR GRAVEL FILL MATERIAL COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR TEST IN ACCORDANCE WITH ASTM D698.
2. PLACE SLAB CONTRACTION JOINTS AS NOTED. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS.
3. RECOMPACT ALL SOIL DISTURBED BY PLACING OF BELOW GRADE PLUMBING, ELECTRIC, AND OTHER UTILITIES IN LAYERS NOT TO EXCEED 8" THICK.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SETTING FOR ELEVATION AND PLUMBNESS TO ASSURE COMPLETE AREA DRAINAGE. COORDINATE LOCATIONS WITH PLUMBING DRAWINGS.
5. ALL EXPOSED CONCRETE SLABS SHALL BE FINISHED WITH BULL FLOATING.
6. REINFORCING BAR MINIMUM DEVELOPMENT LENGTHS:
   #3 BAR = 15 INCHES #4 BAR = 19 INCHES #5 BAR = 24 INCHES

NOTE:
THESE DRAWINGS ARE DESIGNED AS NOTED ON EACH INDIVIDUAL DRAWING. THE 2009 INTERNATIONAL BUILDING CODE, NFPA 101 AND THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE WERE CONSULTED IN THE DESIGN OF THIS BUILDING. THE MAINE STATE BUILDING CODE SET THE BATHROOM NUMBER.



9 / - **MECHANICAL SLAB DETAIL**
SCALE: 3/4" = 1'-0"

STATE OF MAINE
KEITH EWING
No. 12316
PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
FOUNDATION DETAILS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-1B-0

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

BDC: P/DRAFTING/AB/AB-02/AB-02_STR-1B-0

Classification: UNCLASSIFIED
Quality Category: NON-Q
SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_STR-2A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

PLAN VIEW

SCALE: N.T.S.

NOTES:
1. WALLS ARE 2"X6"@16" O.C. WITH 2"X8" TOP CHORD ON BEARING WALLS.
2. ALL TRUSSES TO RECIEVE H10-2 ON EACH END.
3. FOR ADDITIONAL DESIGN NOTES, SEE SHEET STR-3B.

STATE OF MAINE KEITH EWING No. 12315 LICENSED PROFESSIONAL ENGINEER

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB-02
BDC PROPOSAL(S): 12-014
BDC JOB ORDER(S)
CLIENT DATA
SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ROOF FRAMING PLAN

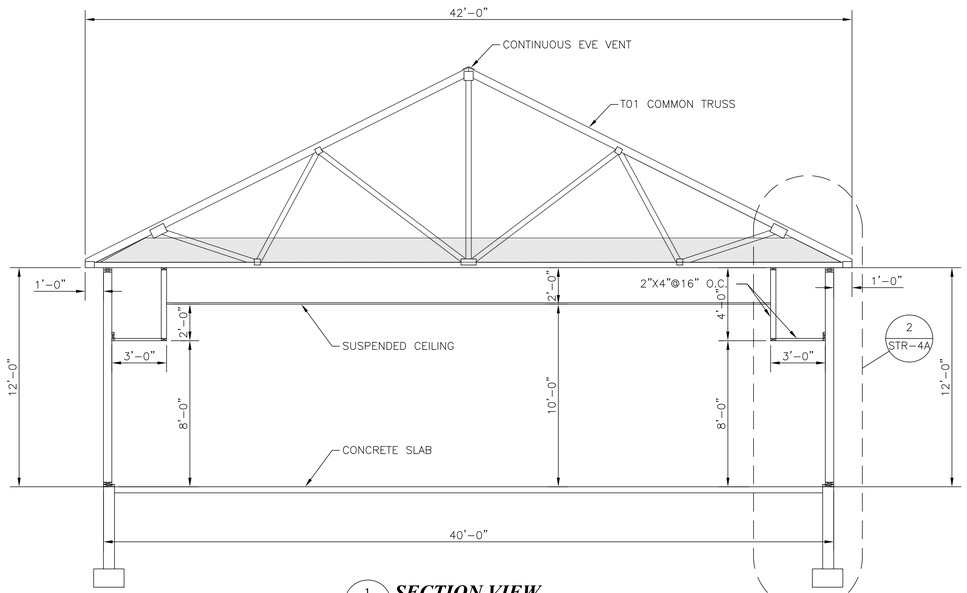
BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-2A-0

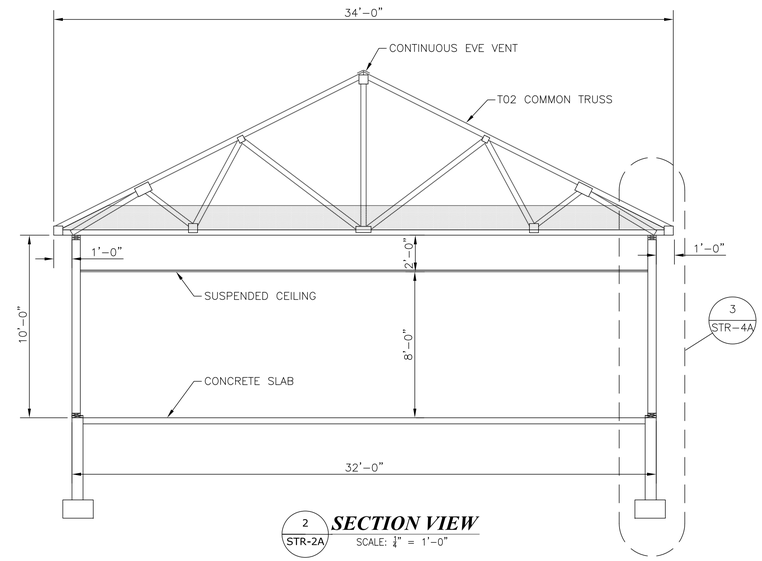
Classification: UNCLASSIFIED
Quality Category: NON-Q
SITE NAME: AUGUSTA

BDC: P/DRAFTING/AB/AB-02/AB-02_STR-2A-0

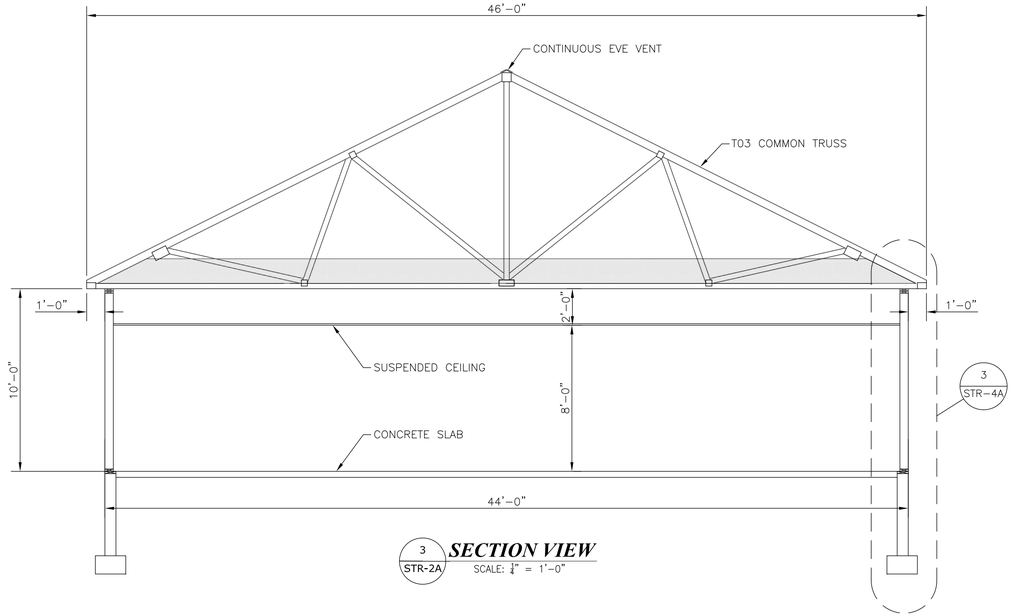
Classification: UNCLASSIFIED
Quality Category: NON-Q



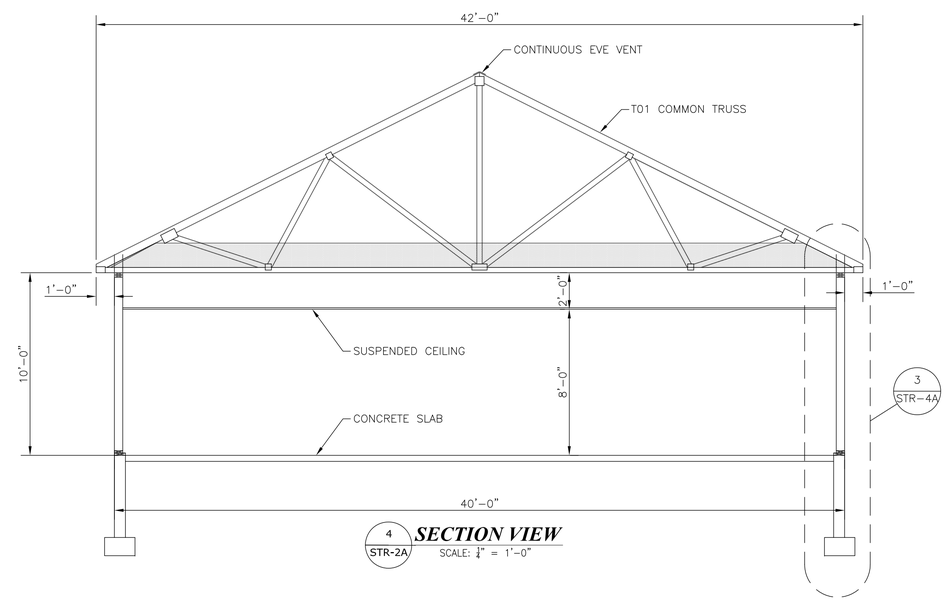
1 STR-2A **SECTION VIEW**
SCALE: ¼" = 1'-0"



2 STR-2A **SECTION VIEW**
SCALE: ¼" = 1'-0"



3 STR-2A **SECTION VIEW**
SCALE: ¼" = 1'-0"



4 STR-2A **SECTION VIEW**
SCALE: ¼" = 1'-0"

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

STATE OF MAINE
KEITH EWING
No. 12315
LICENSED
PROFESSIONAL ENGINEER

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

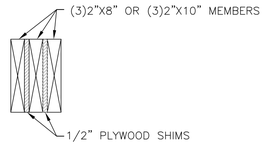
ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
BUILDING SECTIONS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-3A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_STR-3A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q



3 / - **HEADER BEAM DETAIL**
SCALE: 1-1/2" = 1'-0"

GENERAL NOTES:
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS; REPORT ANY DISCREPANCIES TO STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.
2. CONSTRUCTION SHALL FOLLOW INTERNATIONAL BUILDING CODE (2009 EDITION).
3. STRUCTURAL SYSTEMS AND COMPONENTS DESIGN SHALL FOLLOW 2009 INTERNATIONAL BUILDING CODE.
4. COORDINATE WITH OWNER FOR SIZE AND LOCATION OF OPENINGS IN STRUCTURE NOT SHOWN ON STRUCTURAL DRAWINGS.
5. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.
6. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND NON STRUCTURAL ITEMS DURING CONSTRUCTION.
7. ALL STRUCTURAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED FOR SELF WEIGHT,SUPERIMPOSED DEAD LOADS, CONCENTRATED LOADS SHOWN ON PLANS, AND THE LIVE LOADS.
8. ALL REFERENCED STANDARDS REFER TO LATEST EDITION.
9. GENERAL CONTRACTOR TO COORDINATE ALL FLOOR PENETRATIONS WITH APPROPRIATE TRADES.

DESIGN LOADS:

LIVE LOAD
ASSEMBLY (100 PSF)

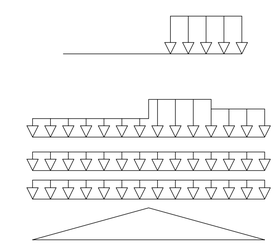
SNOW LOAD: (BASED ON ASCE 7-05)
GROUND SNOW LOAD (Pg): 80 PSF
EXPOSURE FACTOR (Ce): 1.00
SNOW LOAD IMPORTANCE FACTOR (I): 1.0
ROOF THERMAL FACTOR - (Ct): 1.1

SEISMIC DATA: (BASED ON ASCE 7-05)
SS: 20%
S1: 8%
I: 1.0
SEISMIC HAZARD EXPOSURE GROUP: II
SEISMIC PERFORMANCE CATEGORY: B

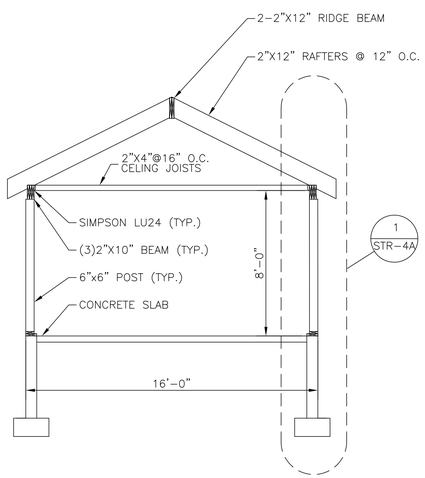
WIND LOAD: (BASED ON ASCE 7-05)
BASIC WIND SPEED: 95 MPH IMPORTANCE FACTOR (I): 1.0 EXPOSURE: B

SITE CLASS: D (ASSUMED)
BASIC STRUCTURAL SYSTEM:
LIGHT FRAMED WALLS SHEATHED w/ WOOD STRUCTURAL PANELS
RESPONSE MODIFICATION
R:=6.5 Cd:=4

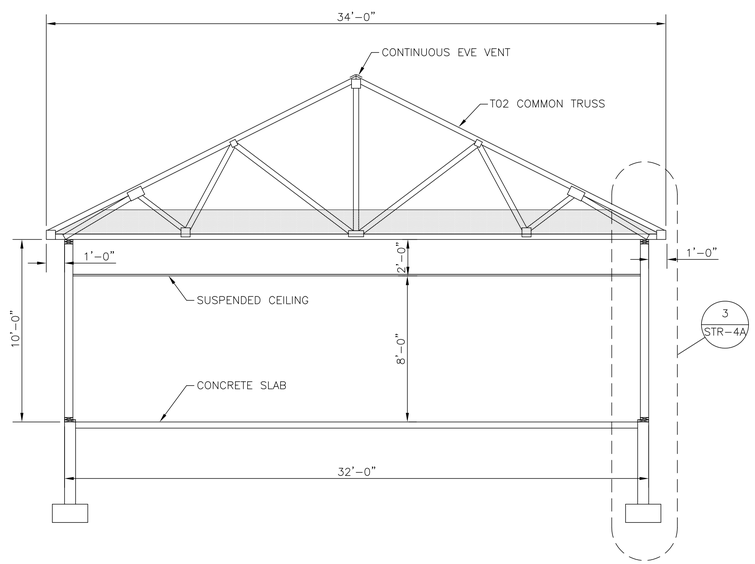
PRE-ENGINEERED TIMBER TRUSS NOTES:
1. TRUSS MFG. SHALL COORDINATE w/ ARCHITECTURAL FLOOR PLAN, ELEVATIONS, BUILDING SECTIONS, WALL SECTIONS AND THE MECHANICAL VENTILATION.
2. ALL TIMBER DESIGN AND FABRICATION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND IT'S FASTENINGS".
3. SHOP DRAWINGS FOR ALL WOOD TRUSSES AND CONNECTIONS SHALL IDENTIFY THE SPECIFIC PROJECT, SHALL LIST ALL DESIGN CRITERIA AND SHALL SHOW ALL DETAILS NECESSARY FOR PROPER ERECTION. SHOP DRAWINGS. SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF THE ENGINEER WHO PREPARED THEM. SHOP DRAWINGS. SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. SIGNED AND SEALED SHOP DRAWINGS. SHALL INCLUDE ALL TRUSS MEMBER SIZES, CONNECTORS, FRAMING PLANS IDENTIFYING EACH TRUSS AND ITS LOCATION, PERMANENT BRACING AND ANCHORAGE OF BRACING, TRUSS TO TRUSS CONNECTION DETAILS, TRUSS TO STRUCTURE CONNECTIONS NOT SHOWN ON STRUCTURAL DRAWINGS. AND ANY OTHER TEMPORARY AND PERMANENT ERECTION AND FABRICATION INFORMATION.
4. TRUSSES SHALL NOT PRODUCE ANY HORIZONTAL THRUST TO BEARING WALLS.
5. SPACE AND ARRANGE TRUSSES SO THAT THE TRUSS REACTIONS DO NOT PRODUCE A BEARING PRESSURE ON THE WALL TOP PLATES GREATER THAN THE ALLOWABLE STRESS PERPENDICULAR TO GRAIN FOR THE SPECIES OF WOOD USED FOR THE WALL TOP PLATES. AND AS DESIGNATED ON DRAWINGS.
6. ALL ROOF FRAMING MEMBERS, INCLUDING RAFTERS, SHALL BE DESIGNED BY THE ROOF TRUSS MFG'S. ENGINEER, UNLESS OTHERWISE SHOWN ON THE ROOF FRAMING PLAN.
7. BRACING - TRUSSES AND MEMBERS SHALL BE BRACED IN ACCORDANCE WITH:
   A. ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONNECTION".
   B. TP1 H1B "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES".
   C. TP1 DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLAT CONNECTED WOOD TRUSSES.
8. TRUSS MFG. TO SUPPLY ALL TRUSS TO TRUSS CONNECTIONS.
9. TRUSS ENG. TO COOR. DESIGN OF TRUSS SYSTEM w/ CONSTRUCTION DOCUMENTS
10. ALL JOIST ATTACHED TO BEARING WALLS TO RECEIVE SIMPSON H10-2 OR EQUIVALENT CLIPS U.N.O.



ROOF TRUSS LOADING DIAGRAM



1 / STR-2A **SECTION VIEW**
SCALE: 3/4" = 1'-0"



2 / STR-2A **SECTION VIEW**
SCALE: 1/4" = 1'-0"

FRAMING NOTES:
1. ALL ANCHOR BOLTS SHALL BE ASTM A307. ALL BOLT HOLES TO BE 1/16" LARGER THAN BOLT.
2. PRESSURE TREATMENT OF STRUCTURAL TIMBER SHALL MEET AWPA STANDARD P-E AND FEDERAL STANDARD TT-W-550. THE TREATING PROCESS AND RESULTS THEREOF SHALL MEET FEDERAL SPECIFICATION TT-W-571 G, AWPA COMMODITY STANDARD, AND AMERICAN WOOD PRESERVERS BUREAU STANDARDS LP-W OR AWPA STANDARD C-2.
3. ALL FIELD CUTS AND DRILLED HOLES IN PRESSURE-TREATED STRUCTURAL TIMBER SHALL BE GIVEN THREE LIBERAL APPLICATIONS OF PRESERVATIVE IN ACCORDANCE WITH AWPA STANDARD M-4.
4. ALL MEMBERS IN CONTACT WITH CONCRETE OR GROUND SHALL BE TREATED.
5. FRAMING: STRESS GROUP D, SPRUCE-PINE-FIR (S/P/F) SPECIES, GRADE NO. 2 OR BETTER, 19 % MAXIMUM MOISTURE CONTENT

PLYWOOD FRAMING NOTES:
1. PLYWOOD SHALL BE IDENTIFIED WITH GRADE-TRADEMARK OF APA AND MEET REQUIREMENTS OF PRODUCT STANDARD PS 1.
2. SHEARWALLS OVER STUDS AT 16 INCHES MAXIMUM SHALL BE A MINIMUM MEET THE REQUIREMENTS OF IBC-2009, CHAPTER 23. SHEARWALL SHEATHING SHALL BE A MINIMUM OF 5/8" APA RATED SHEATHING 32/16, EXPOSURE 1. NO BLOCKING REQUIRED ON THE 5/8" SHEATHING. NAIL AS REQUIRED BY IBC 2009 TABLES 2306.4.6.1 AND 2306.4.6.2. ADVANTEC IS NOT AN ACCEPTABLE WALL SHEATHING PRODUCT

STATE OF MAINE
KEITH EWING
No. 12315
PROFESSIONAL ENGINEER
10/21/13

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
BUILDING SECTIONS AND NOTES

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-3B-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

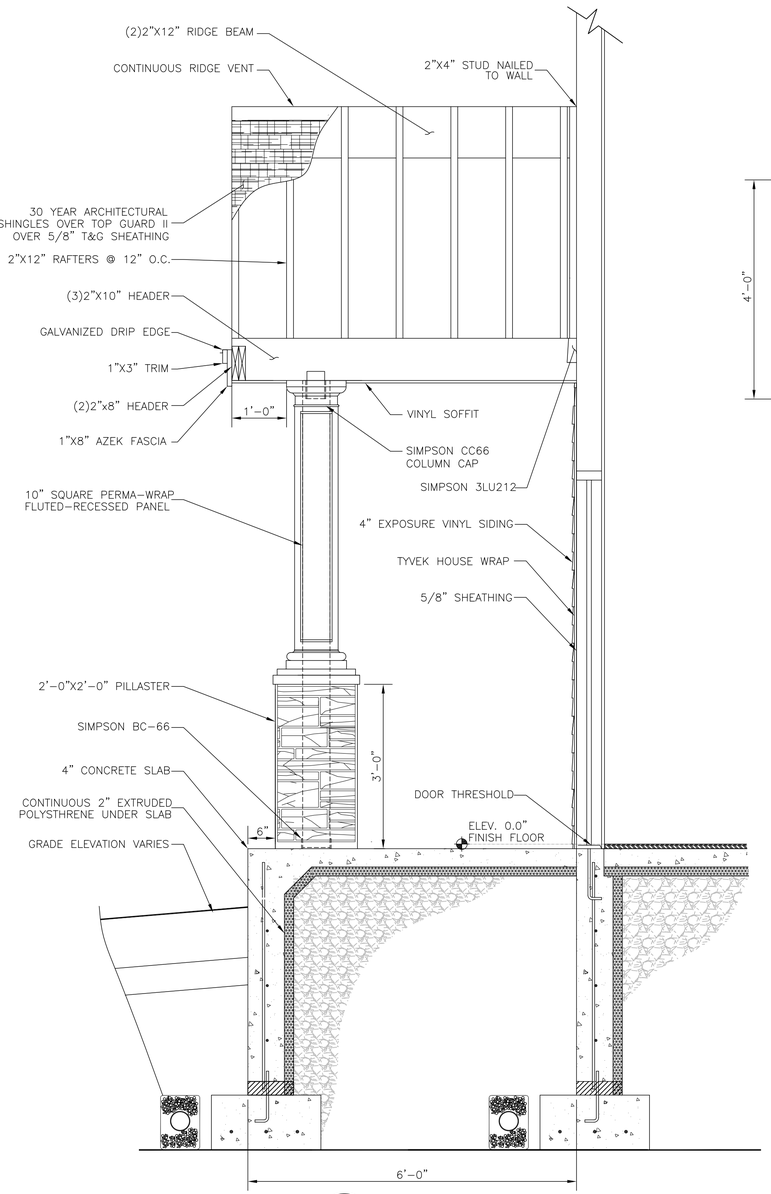
PLYMOUTH ENGINEERING, INC.
KEITH EWING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

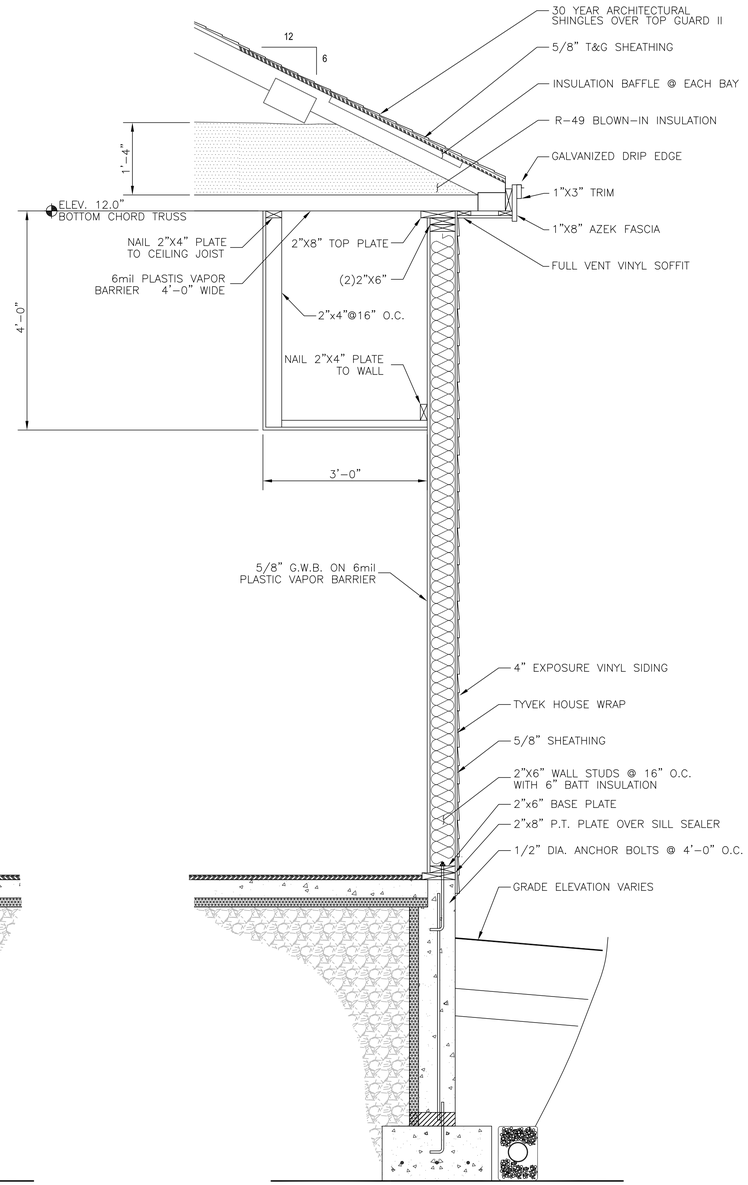
BDC: P/DRAFTING/AB/AB-02/AB-02_STR-3B-0

Classification: UNCLASSIFIED
Quality Category: NON-Q
SITE NAME: AUGUSTA

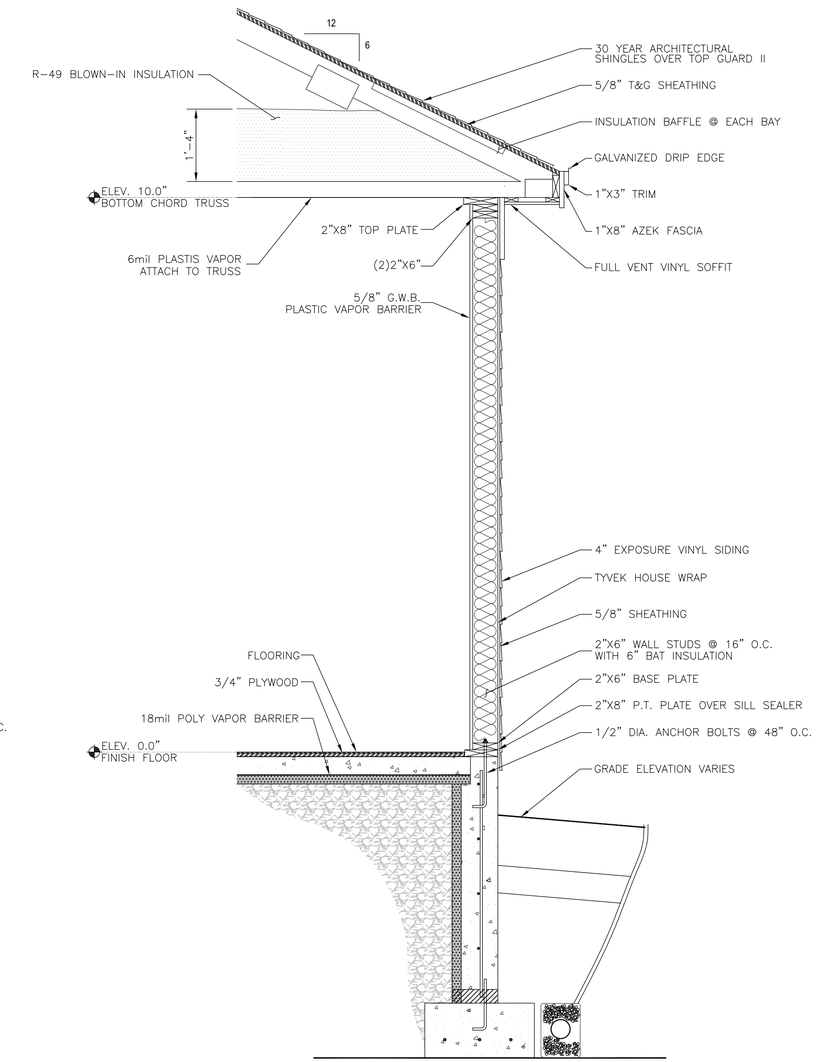
Classification: UNCLASSIFIED
Quality Category: NON-Q



1 STR-3A **WALL SECTION**
SCALE: $1\frac{1}{2}$" = 1'-0"



2 STR-3A **WALL SECTION**
SCALE: $1\frac{1}{2}$" = 1'-0"



3 STR-3A **WALL SECTION**
SCALE: $1\frac{1}{2}$" = 1'-0"

REFER TO SHEET STR-1B FOR CONCRETE FOUNDATION DETAILS AND NOTES.

STATE OF MAINE KEITH EMING No. 12316 LICENSED PROFESSIONAL ENGINEER

PLYMOUTH ENGINEERING, INC.
KEITH EMING, PE
30 LOWER DETROIT ROAD
PLYMOUTH, MAINE 04345 207.257.2071

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	KE

REVISION NOTES: ORIGINAL ISSUE.

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
BUILDING WALL SECTIONS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_STR-4A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_STR-4A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

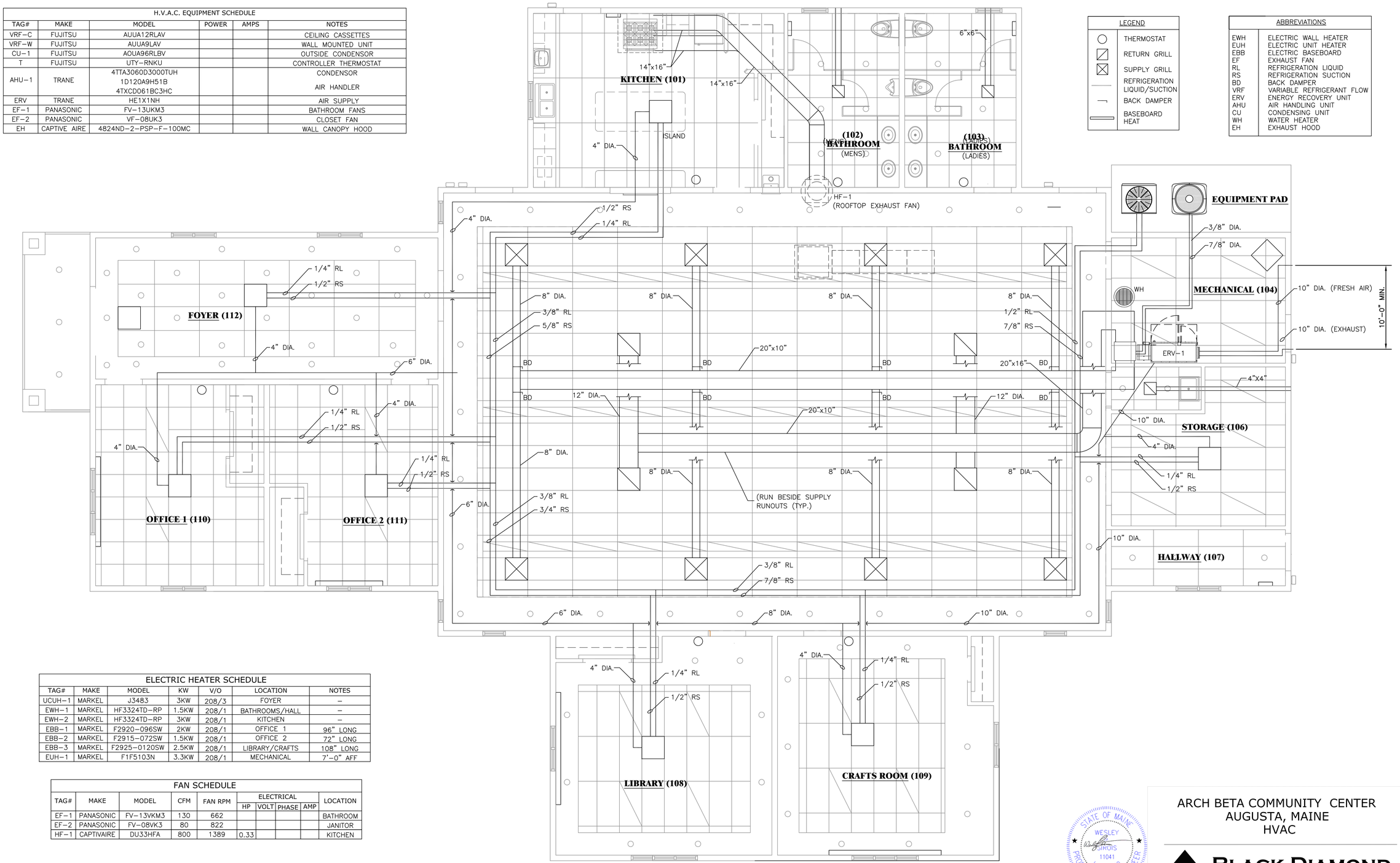
DRAWING NUMBER AB-02_MEC-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

H.V.A.C. EQUIPMENT SCHEDULE					
TAG#	MAKE	MODEL	POWER	AMPS	NOTES
VRF-C	FUJITSU	AUUA12RLAV			CEILING CASSETTES
VRF-W	FUJITSU	AUUA9LAV			WALL MOUNTED UNIT
CU-1	FUJITSU	AOUA96RLBV			OUTSIDE CONDENSOR
T	FUJITSU	UTY-RNKU			CONTROLLER THERMOSTAT
AHU-1	TRANE	4TTA3060D3000TUH 1D120A9H51B 4TXCD061BC3HC			CONDENSOR AIR HANDLER
ERV	TRANE	HE1X1NH			AIR SUPPLY
EF-1	PANASONIC	FV-13UKM3			BATHROOM FANS
EF-2	PANASONIC	VF-08UK3			CLOSET FAN
EH	CAPTIVE AIRE	4824ND-2-PSP-F-100MC			WALL CANOPY HOOD

LEGEND	
○	THERMOSTAT
⧄	RETURN GRILL
⊠	SUPPLY GRILL
—	REFRIGERATION LIQUID/SUCTION
⊓	BACK DAMPER
▬	BASEBOARD HEAT

ABBREVIATIONS	
EWH	ELECTRIC WALL HEATER
EUH	ELECTRIC UNIT HEATER
EBB	ELECTRIC BASEBOARD
EF	EXHAUST FAN
RL	REFRIGERATION LIQUID
RS	REFRIGERATION SUCTION
BD	BACK DAMPER
VRF	VARIABLE REFRIGERANT FLOW
ERV	ENERGY RECOVERY UNIT
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
WH	WATER HEATER
EH	EXHAUST HOOD



ELECTRIC HEATER SCHEDULE						
TAG#	MAKE	MODEL	KW	V/O	LOCATION	NOTES
UCUH-1	MARKEL	J3483	3KW	208/3	FOYER	–
EWH-1	MARKEL	HF3324TD-RP	1.5KW	208/1	BATHROOMS/HALL	–
EWH-2	MARKEL	HF3324TD-RP	3KW	208/1	KITCHEN	–
EBB-1	MARKEL	F2920-096SW	2KW	208/1	OFFICE 1	96" LONG
EBB-2	MARKEL	F2915-072SW	1.5KW	208/1	OFFICE 2	72" LONG
EBB-3	MARKEL	F2925-0120SW	2.5KW	208/1	LIBRARY/CRAFTS	108" LONG
EUH-1	MARKEL	F1F5103N	3.3KW	208/1	MECHANICAL	7'-0" AFF

FAN SCHEDULE									
TAG#	MAKE	MODEL	CFM	FAN RPM	ELECTRICAL				LOCATION
					HP	VOLT	PHASE	AMP	
EF-1	PANASONIC	FV-13VKM3	130	662					BATHROOM
EF-2	PANASONIC	FV-08VK3	80	822					JANITOR
HF-1	CAPTIVAIRE	DU33HFA	800	1389	0.33				KITCHEN

FLOOR PLAN
SCALE: ¼" = 1'-0"

STATE OF MAINE
WESLEY S. SEROIS
11041
LICENSED
PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
HVAC

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_MEC-1A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	WS

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB-02
BDC PROPOSAL(S): 12-014
BDC JOB ORDER(S):
CLIENT DATA
SITE NAME: AUGUSTA

RANOR MECHANICAL
WES SEROIS, PE
P.O. BOX 5036
N. JAY, MAINE 04262 207.645.7916

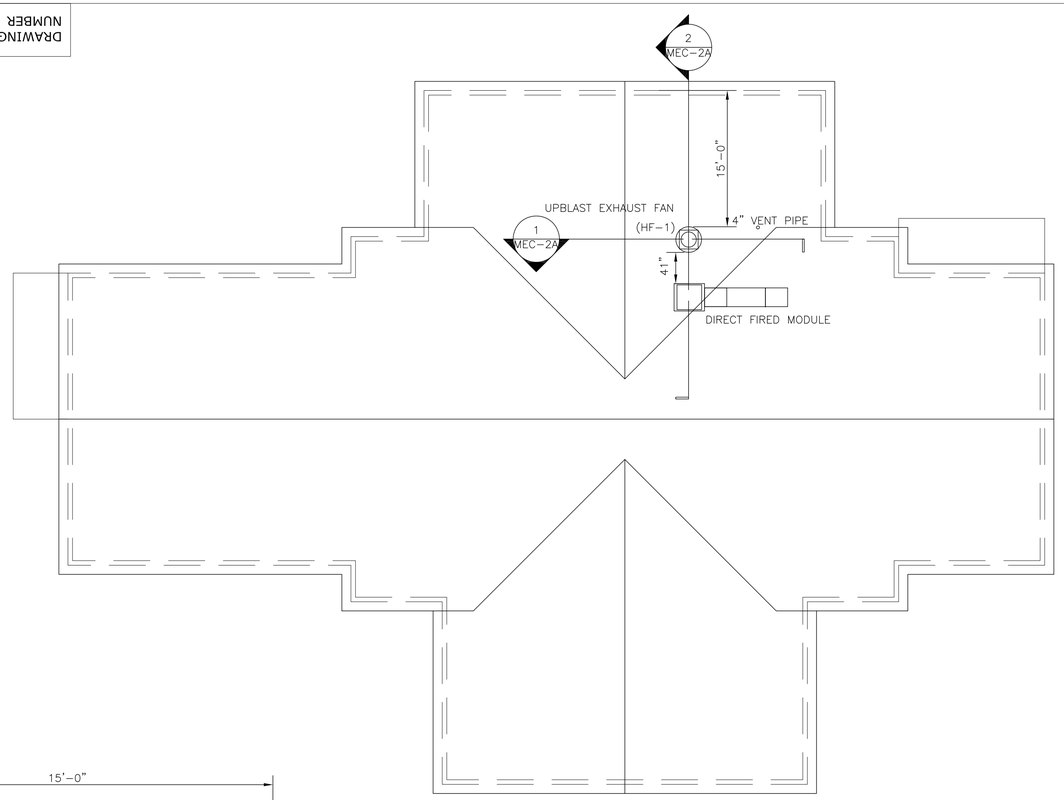
BDC: P/DRAFTING/AB/AB-02/AB-02_MEC-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

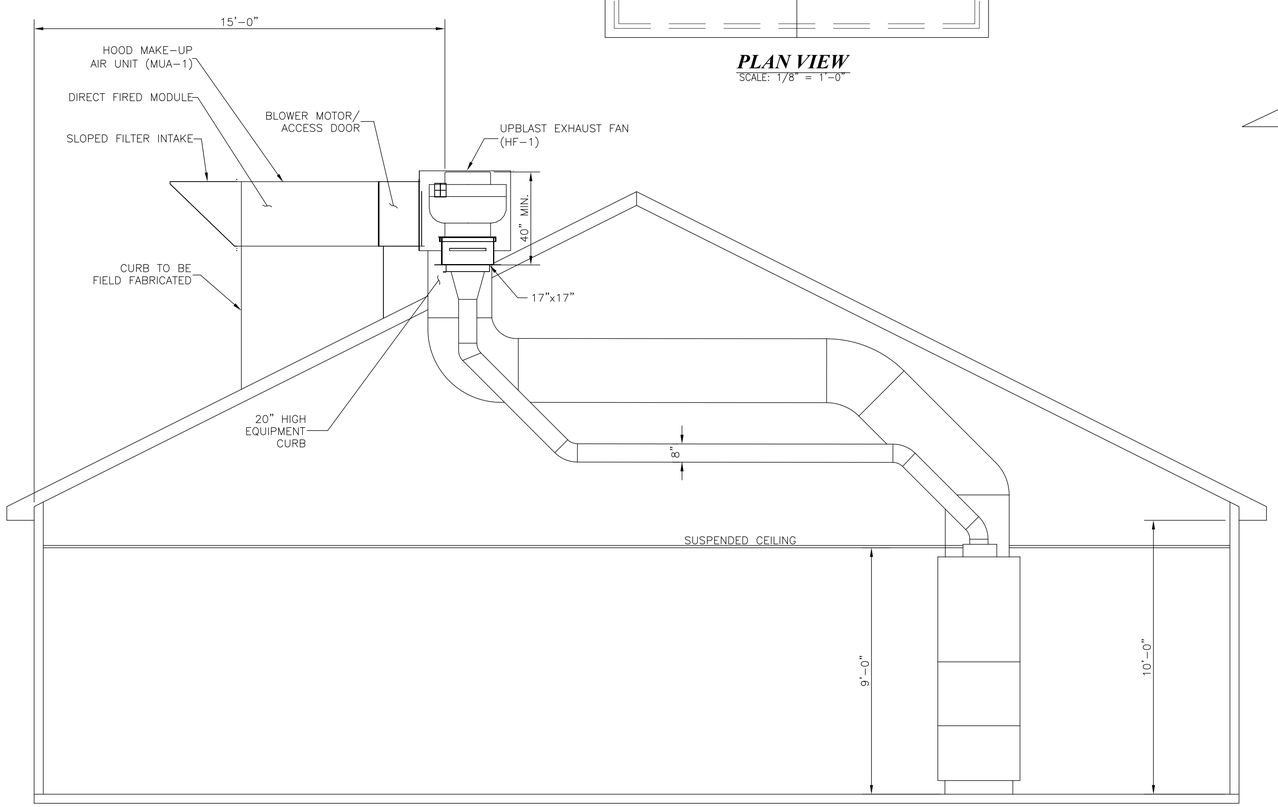
SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_MEC-2A-0

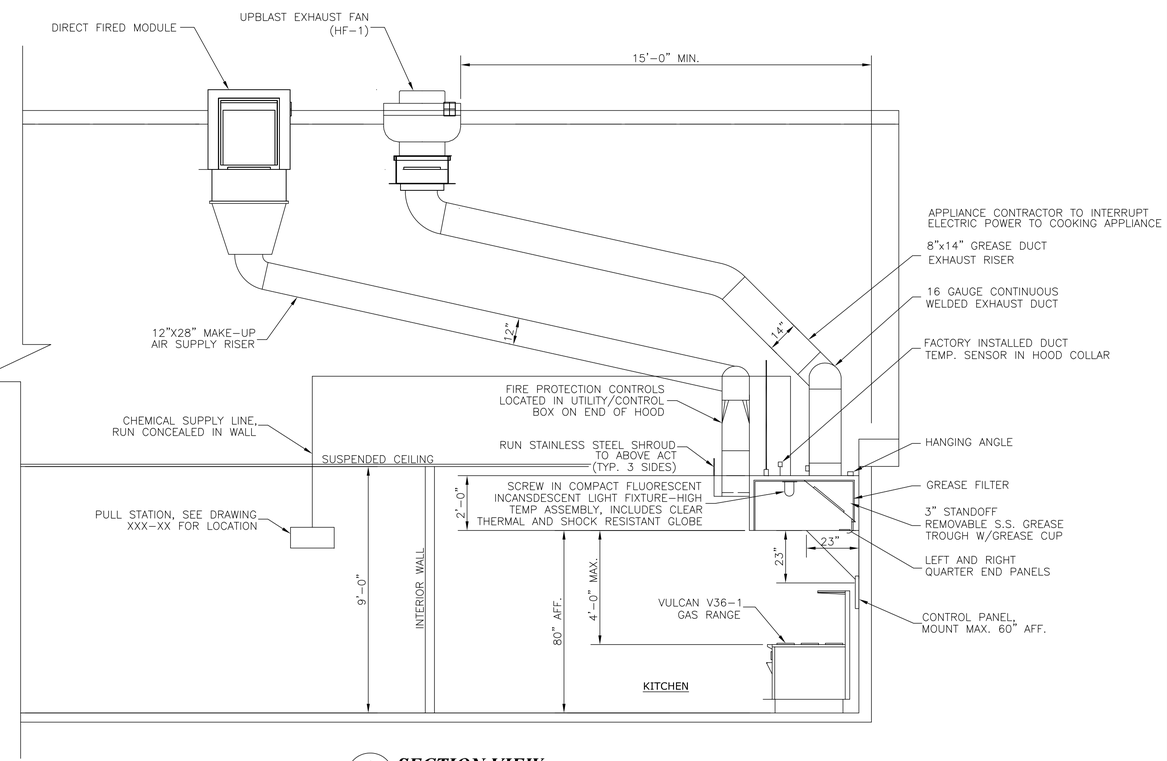
Classification: UNCLASSIFIED
Quality Category: NON-Q



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



1 - **SECTION VIEW**
SCALE: 3/8" = 1'-0"



2 - **SECTION VIEW**
SCALE: 3/8" = 1'-0"

REFER TO DRAWING MEC-4A FOR DUCT HANGARS

STATE OF MAINE
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SEROIS
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PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
MECHANICAL-ROOF PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_MEC-2A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	AMC	MJT	WS

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

RANOR MECHANICAL
WES SEROIS, PE
P.O. BOX 5036
N. JAY, MAINE 04262 207.645.7916

BDC: P/DRAFTING/AB/AB-02/AB-02_MEC-2A-0

Classification: UNCLASSIFIED
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SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_MEC-3A-0

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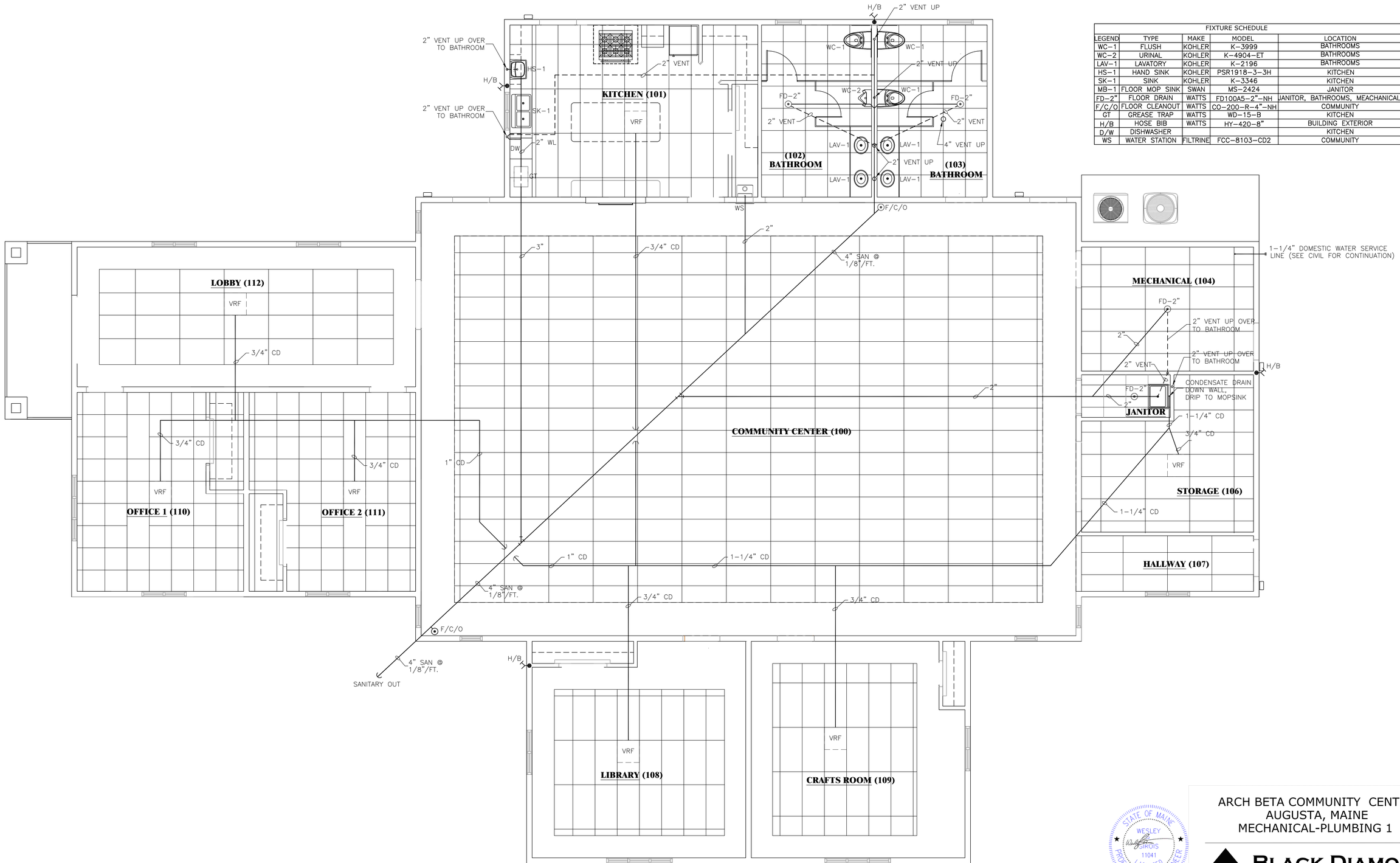

FIXTURE SCHEDULE				
LEGEND	TYPE	MAKE	MODEL	LOCATION
WC-1	FLUSH	KOHLER	K-3999	BATHROOMS
WC-2	URINAL	KOHLER	K-4904-ET	BATHROOMS
LAV-1	LAVATORY	KOHLER	K-2196	BATHROOMS
HS-1	HAND SINK	KOHLER	PSR1918-3-3H	KITCHEN
SK-1	SINK	KOHLER	K-3346	KITCHEN
MB-1	FLOOR MOP SINK	SWAN	MS-2424	JANITOR
FD-2"	FLOOR DRAIN	WATTS	FD100A5-2"-NH	JANITOR, BATHROOMS, MEACHANICAL
F/C/O	FLOOR CLEANOUT	WATTS	CO-200-R-4"-NH	COMMUNITY
GT	GREASE TRAP	WATTS	WD-15-B	KITCHEN
H/B	HOSE BIB	WATTS	HY-420-8"	BUILDING EXTERIOR
D/W	DISHWASHER			KITCHEN
WS	WATER STATION	FILTRINE	FCC-8103-CD2	COMMUNITY

FLOOR PLAN
SCALE: $\frac{1}{4}$" = 1'-0"

STATE OF MAINE
WESLEY SIROIS
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PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
MECHANICAL-PLUMBING 1

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_MEC-3A-0

BDC: P/DRAFTING/AB/AB-02/MEC-3A-0

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10-21-13	AMC	AMC	MJT	RS

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

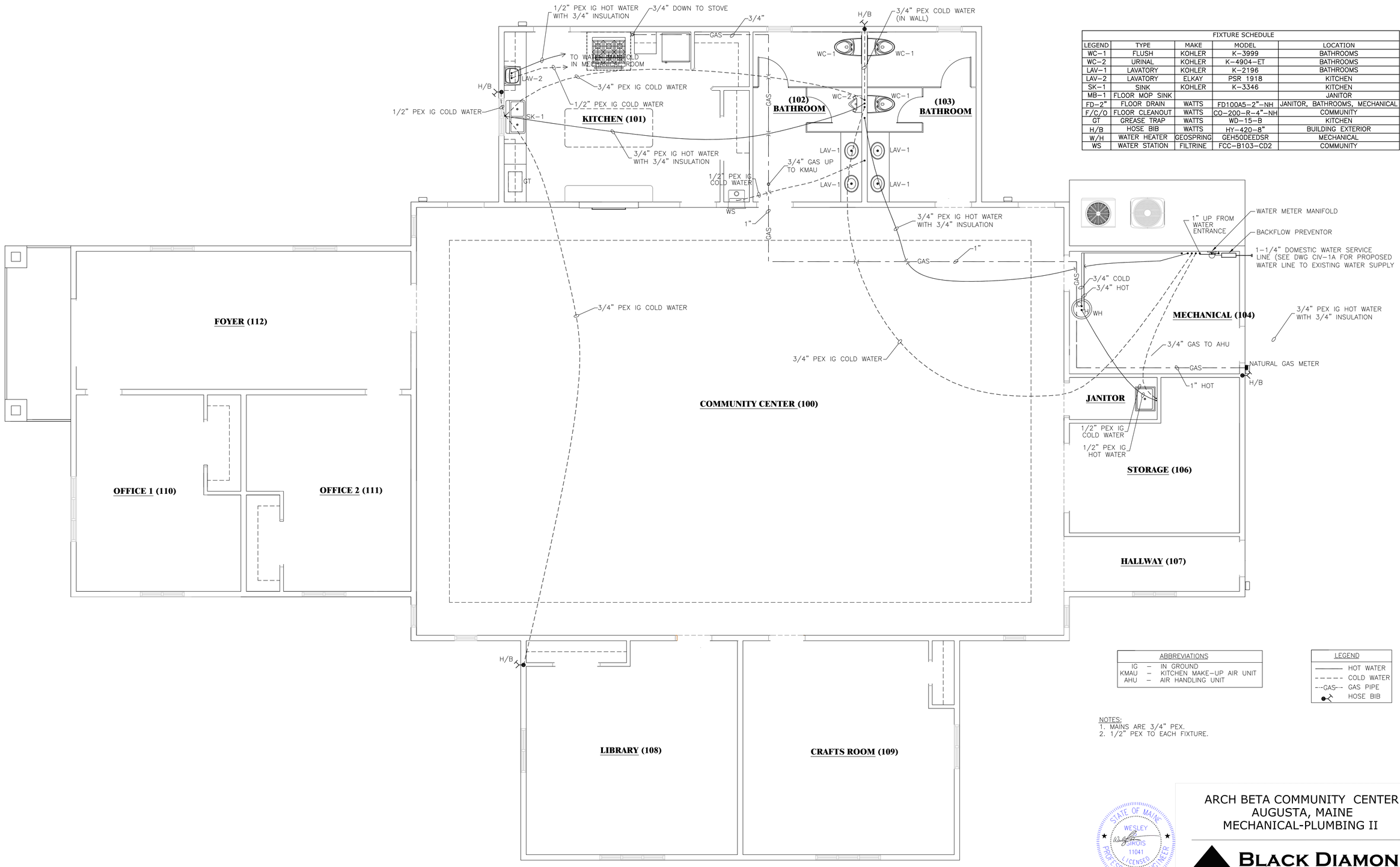
RANOR MECHANICAL
WES SIROIS, PE
P.O. BOX 5036
N. JAY, MAINE 04262 207.645.7916

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_MEC-3B-0

Classification: UNCLASSIFIED
Quality Category: NON-Q



FIXTURE SCHEDULE				
LEGEND	TYPE	MAKE	MODEL	LOCATION
WC-1	FLUSH	KOHLER	K-3999	BATHROOMS
WC-2	URINAL	KOHLER	K-4904-ET	BATHROOMS
LAV-1	LAVATORY	KOHLER	K-2196	BATHROOMS
LAV-2	LAVATORY	ELKAY	PSR 1918	KITCHEN
SK-1	SINK	KOHLER	K-3346	KITCHEN
MB-1	FLOOR MOP SINK			JANITOR
FD-2"	FLOOR DRAIN	WATTS	FD100A5-2"-NH	JANITOR, BATHROOMS, MECHANICAL
F/C/O	FLOOR CLEANOUT	WATTS	CO-200-R-4"-NH	COMMUNITY
GT	GREASE TRAP	WATTS	WD-15-B	KITCHEN
H/B	HOSE BIB	WATTS	HY-420-8"	BUILDING EXTERIOR
W/H	WATER HEATER	GEOSPRING	GEH50DEEDSR	MECHANICAL
WS	WATER STATION	FILTRINE	FCC-B103-CD2	COMMUNITY

ABBREVIATIONS		
IG	–	IN GROUND
KMAU	–	KITCHEN MAKE-UP AIR UNIT
AHU	–	AIR HANDLING UNIT

LEGEND	
———	HOT WATER
- - - - -	COLD WATER
--GAS--	GAS PIPE
●—⊲	HOSE BIB

NOTES:
1. MAINS ARE 3/4" PEX.
2. 1/2" PEX TO EACH FIXTURE.

FLOOR PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

STATE OF MAINE
WESLEY SIKOIS
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PROFESSIONAL ENGINEER

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
MECHANICAL-PLUMBING II

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_MEC-3B-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	WS

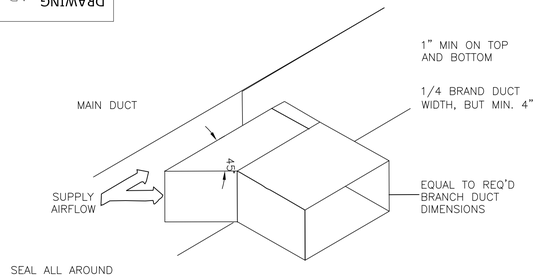
REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

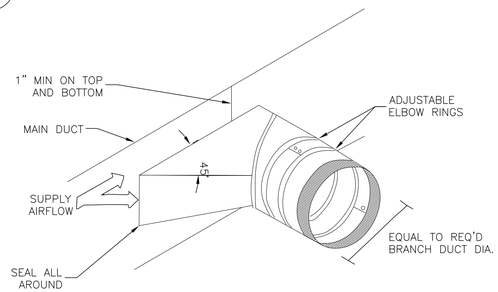
RANOR MECHANICAL
WES SIKOIS, PE
P.O. BOX 5036
N. JAY, MAINE 04262 207.645.7916

BDC: P/DRAFTING/AB/AB-02/AB-02_MEC-3B-0

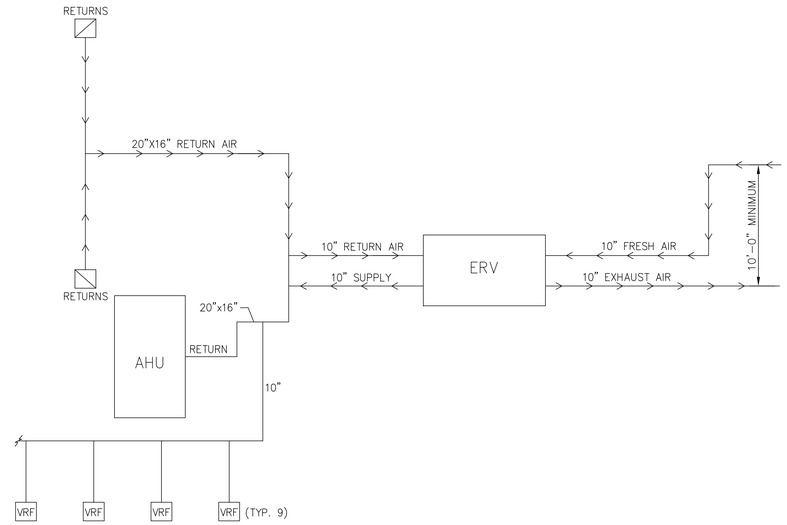
Classification: UNCLASSIFIED
Quality Category: NON-Q



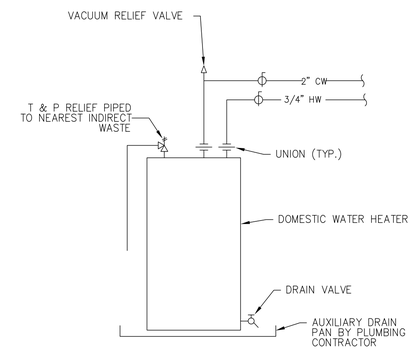
TYPICAL BRANCH TAKE-OFF FITTING DETAIL
NOT TO SCALE



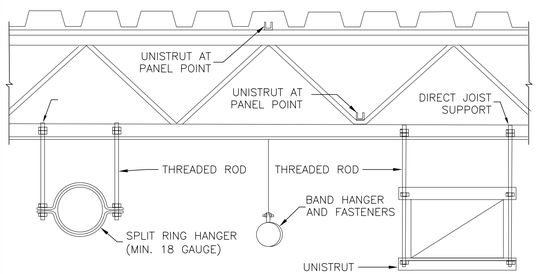
DUCT CONNECTION TO DIFFUSOR DETAIL
NOT TO SCALE



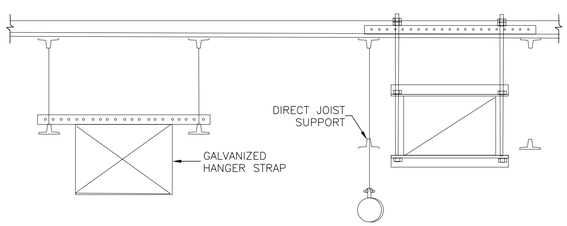
ERV SYSTEM DIAGRAM
NOT TO SCALE



WATER HEATER PIPING DIAGRAM
NOT TO SCALE



VIEW PERPINDICULAR TO TRUSS

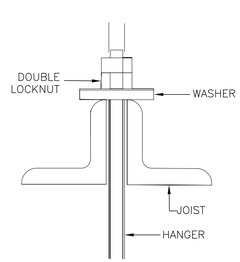


VIEW PARALLEL TO TRUSS

ROUND DUCT
1. SUPPORT MATERIAL MUST MATCH DUCT MATERIAL.
2. HANGERS MUST NOT DEFORM DUCTWORK
3. SPACE HANGERS AT 10'-0" APART
4. ROUND DUCT GREATER THAN 36" IN DIAMETER SHALL USE SPLIT RING SUPPORTS.
   -DUCT 20" IN DIAMETER AND SMALLER SHALL USE (1) 1" 22 GAUGE STRIP
   -DUCT 36" IN DIAMETER AND SMALLER SHALL USE (1) 1" 18 GAUGE STRIP
5. ROUND DUCT 36" IN DIAMETER OR LESS MA USE BAND STRAPS
   -DUCT 60" IN DIAMETER AND SMALLER SHALL USE (2) 3/8" DIAMETER RODS.

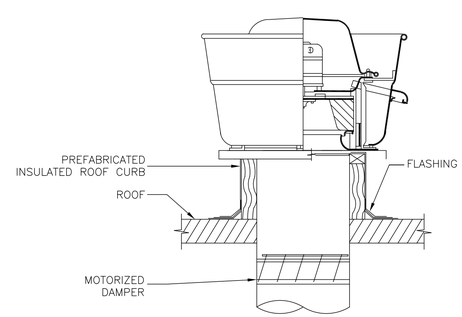
RECTANGULAR DUCT
1. SUPPORTS SHALL BE SPACED AND SIZED PER SMACNA
2. DUCTS LESS THAN 48" MAY USE STRAP HANGERS.
3. DUCTS GREATER THAN 48" WIDE MUST BE SUPPORTED FROM UNISTRUT
4. STRAP HANGERS ARE NOT ALLOWED.

GENERAL NOTES
1. SUBMIT HANGER DETAILS AS SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER
2. HANGERS SHALL NOT BE ATTACHED TO DECKING OR BRIDGING. WHEREVER POSSIBLE CONNECT HANGERS TO W-FLANGES.
3. HANGERS AND CROSS MEMBER SUPPORTS SHALL BE LOCATED AT PANEL POINTS.
4. HANGERS AND SUPPORTS SHALL BE SUPPORTED DIRECTLY FROM FLANGES AND NOT FROM WEBBING.
5. ECCENTRIC BEAM CLAMPS ARE NOT ALLOWED.
6. THE SUM OF ALL EQUIPMENT SUPPORTED FROM A SINGLE JOIST SHALL NOT EXCEED 250 LBS.
7. COORDINATE WITH OTHER TRADES.
8. MAKE CONNECTIONS FOR DUCT HANGERS AT WOOD JOISTS USING THROUGH BOLTS OR LAG SCREWS OF MAXIMUM 3/8" DIAMETER INDIVIDUAL CONNECTIONS SHALL BE LIMITED TO NO MORE THAN 150 LBS AND LOADS ON INDIVIDUAL JOISTS SHALL NOT EXCEED 5 LBS/SQUARE FOOT OF FLOOR AREA LOCATION OF CONNECTIONS SHALL BE WITHIN 1/8" OF BEAM/JOIST HEIGHT FROM THE CENTER LINE FOR THE CENTER 1/3 OF THE SPAN, AND ABOVE THE CENTERLINE FOR THE BEAM/JOIST ENDS.

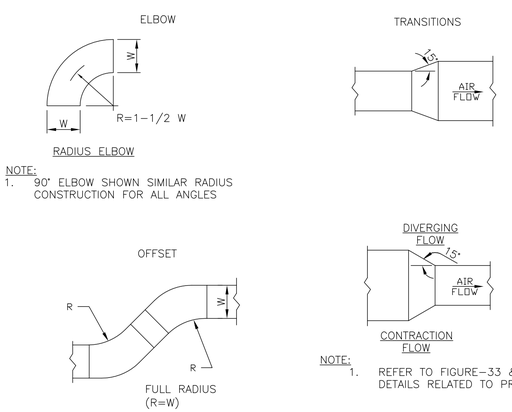


DUCT HANGERS DETAIL
NOT TO SCALE

NOTES:
1. FANS & ROOF CURBS SHALL BE RATED FOR 100 MPH WIND.



EXHAUST FAN CURB DETAIL
NOT TO SCALE



NOTE:
1. 90° ELBOW SHOWN SIMILAR RADIUS CONSTRUCTION FOR ALL ANGLES

NOTE:
1. REFER TO FIGURE-33 & 34 FOR DUCTWORK DETAILS RELATED TO PROCESS EXHAUST.

RECTANDULAR OR ROUND TRANSITIONS OFFSET AND ELBOW DETAILS
NOT TO SCALE

STATE OF MAINE
WESLEY SIROIS
11041
LICENSED
PROFESSIONAL ENGINEER

RANOR MECHANICAL
WES SIROIS, PE
P.O. BOX 5036
N. JAY, MAINE 04262 207.645.7916

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	AMC	MJT	WS

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
MECHANICAL-DETAILS I

BLACK DIAMOND CONSULTANTS INC

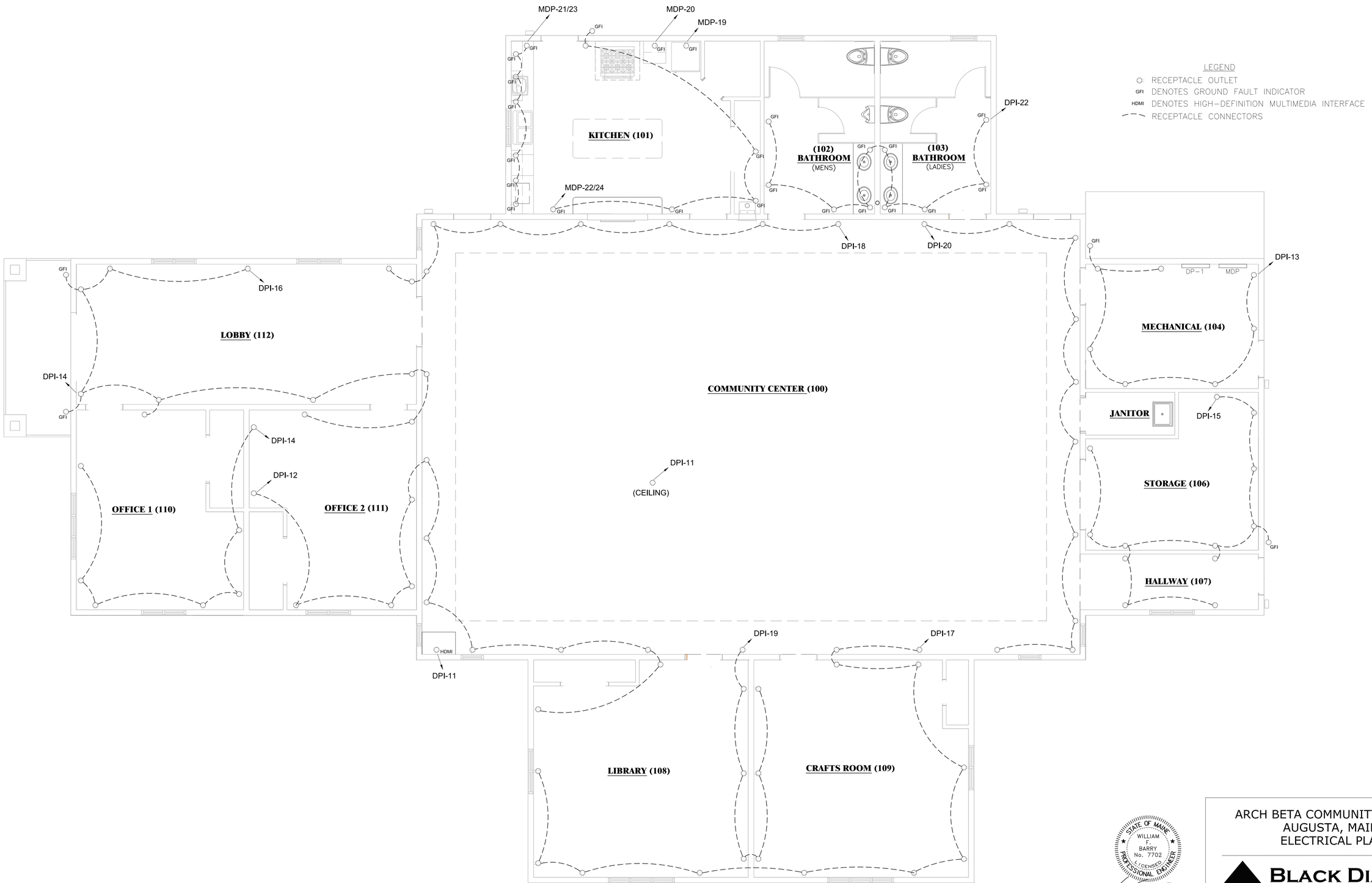
DRAWING NUMBER AB-02_MEC-4A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_MEC-4A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_ELE-1A-0



STATE OF MAINE
WILLIAM F. BARRY
No. 7702
LICENSED
PROFESSIONAL ENGINEER

BLACK DIAMOND CONSULTANTS, INC.
WILLIAM F. BARRY, PE
312 WATER STREET
GARDINER, MAINE 04345 207.582.0056

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	M.M	AMC	WFB

REVISION NOTES: ORIGINAL ISSUE.

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ELECTRICAL PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ELE-1A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ELE-1A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

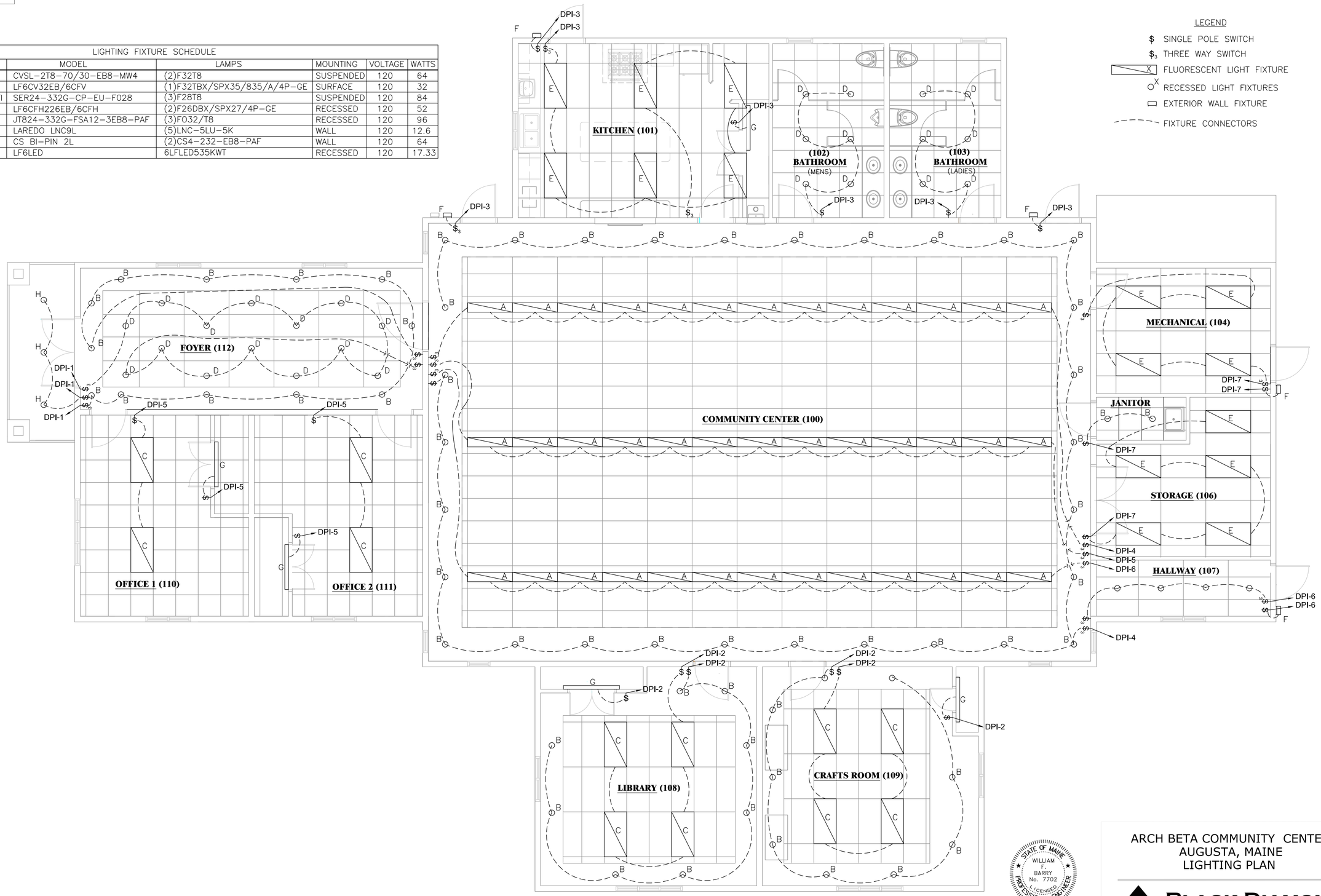
SITE NAME: AUGUSTA

DRAWING NUMBER AB-02_ELE-2A-0

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	MODEL	LAMPS	MOUNTING	VOLTAGE	WATTS
A	ALERA	CVSL-2T8-70/30-EB8-MW4	(2)F32T8	SUSPENDED	120	64
B	PRESCOLITE	LF6CV32EB/6CFV	(1)F32TBX/SPX35/835/A/4P-GE	SURFACE	120	32
C	COLUMBIA LIGHTI	SER24-332G-CP-EU-F028	(3)F28T8	SUSPENDED	120	84
D	PRESCOLITE	LF6CFH226EB/6CFH	(2)F26DBX/SPX27/4P-GE	RECESSED	120	52
E	COLUMBIA	JT824-332G-FSA12-3EB8-PAF	(3)F032/T8	RECESSED	120	96
F	HUBBELL	LAREDO LNC9L	(5)LNC-5LU-5K	WALL	120	12.6
G	COLUMBIA	CS BI-PIN 2L	(2)CS4-232-EB8-PAF	WALL	120	64
H	PRESCOLITE	LF6LED	6LFLED535KWT	RECESSED	120	17.33

LEGEND

- $ SINGLE POLE SWITCH
- $3 THREE WAY SWITCH
- FLUORESCENT LIGHT FIXTURE
- RECESSED LIGHT FIXTURES
- EXTERIOR WALL FIXTURE
- FIXTURE CONNECTORS



STATE OF MAINE WILLIAM F. BARRY No. 7702 LICENSED PROFESSIONAL ENGINEER

BLACK DIAMOND CONSULTANTS, INC.
WILLIAM F. BARRY, PE
312 WATER STREET
GARDINER, MAINE 04345 207.582.0056

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10-21-13	AMD	AMC	MJT	WFB

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
LIGHTING PLAN

BLACK DIAMOND CONSULTANTS INC

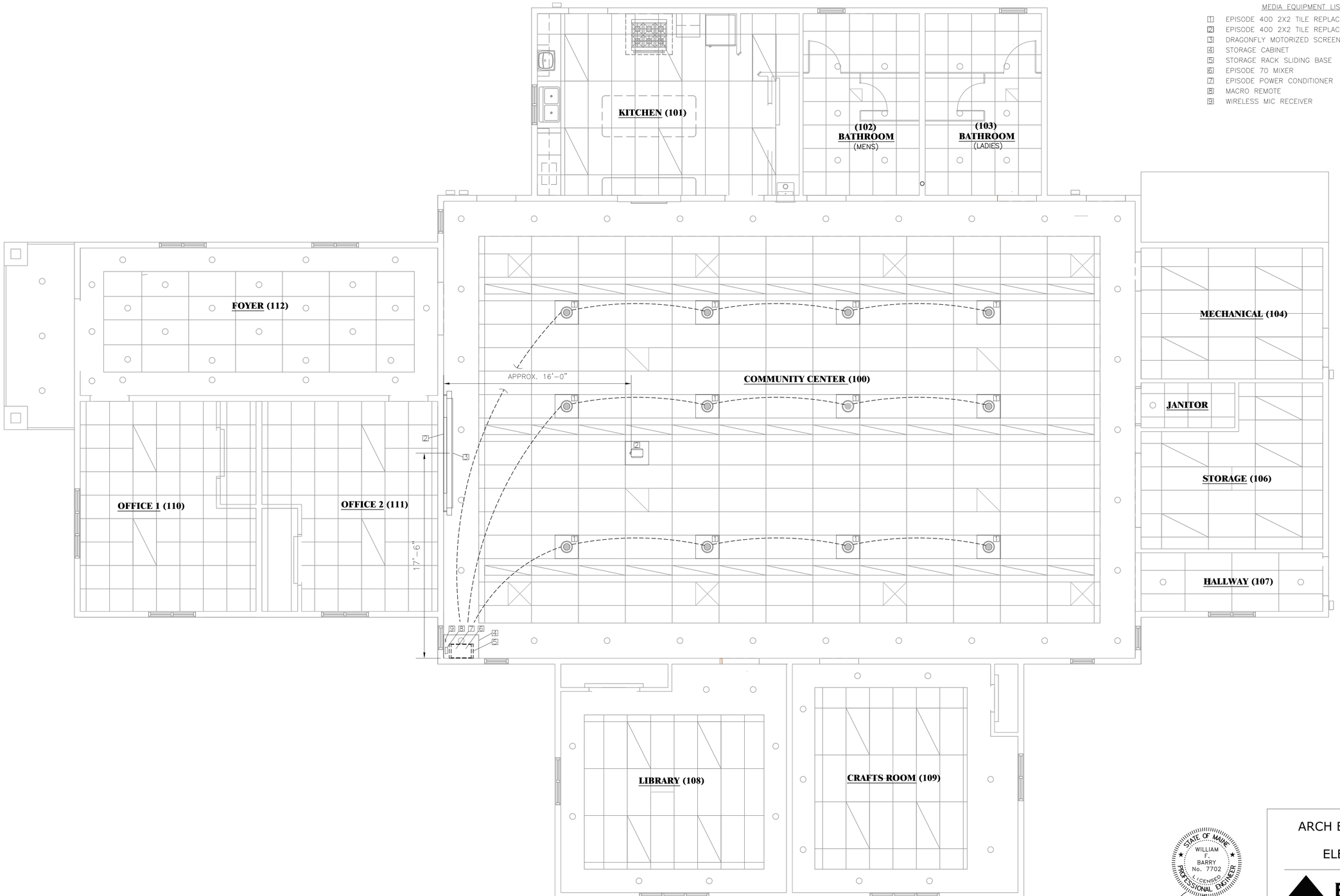
DRAWING NUMBER AB-02_ELE-2A-0

BDC: P/DRAFTING/AB/AB-02/ELE-2A-0

DRAWING NUMBER AB-02_ELE-3A-0

MEDIA EQUIPMENT LIST

1. EPISODE 400 2X2 TILE REPLACEMENT SPEAKER
2. EPISODE 400 2X2 TILE REPLACEMENT SPEAKER
3. DRAGONFLY MOTORIZED SCREEN-63" X 113"
4. STORAGE CABINET
5. STORAGE RACK SLIDING BASE
6. EPISODE 70 MIXER
7. EPISODE POWER CONDITIONER
8. MACRO REMOTE
9. WIRELESS MIC RECEIVER



STATE OF MAINE WILLIAM F. BARRY No. 7702 LICENSED PROFESSIONAL ENGINEER

BLACK DIAMOND CONSULTANTS, INC.
WILLIAM F. BARRY, PE
312 WATER STREET
GARDINER, MAINE 04345 207.582.0056

REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	MJM	AMC	WFB

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S)	BDC PROPOSAL(S)
AB-02	12-014
BDC JOB ORDER(S)	CLIENT DATA
	SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ELECTRICAL-MEDIA PLAN

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ELE-3A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ELE-3A-0

Classification: UNCLASSIFIED
Quality Category: NON-Q

SITE NAME: AUGUSTA

PANEL IDENTIFICATION–MDP					VOLT 208/120 PHASE 3 WIRE 4			MAIN BRKR 200 AMP 42 CIRCUIT		
CKT NO	CB	CIRCUIT DESCRIPTION	AWG	VA	PHASE	VA	AWG	CIRCUIT DESCRIPTION	CB	CKT NO
1	45/3	HVAC HEAT PUMP	8	5400	A	471	14	KITCHEN EX FAN	15/1	2
3			8	5400	B	920	14	KITCHEN SUP FAN	15/1	4
5			8	5400	C	1500	12	ELECTRIC HTR EWH–1	20/1	6
7	15/3	ELECTRIC HTR ECUH–1	14	1000	A	1500	12	ELECTRIC HTR EWH–1	20/1	8
9			14	1000	B	1500	12	ELECTRIC HTR EWH–1	20/1	10
11			14	1000	C	3000	10	ELECTRIC HTR EWH–2	30/1	12
13	20/1	ELECTRIC HTR EBB–1	12	2000	A	3300	10	ELECTRIC HTR EUH–1	30/1	14
15	20/1	ELECTRIC HTR EBB–2	12	1500	B	2250	10	HOT WATER HEATER	30/2	16
17	30/1	ELECTRIC HTR EBB–2	10	2500	C	2250	10			18
19	20/1	REFRIDGERATOR	12	2000	A	2000	12	DISHWASHER	20/1	20
21	20/2	KITCHEN RECEPT	12	2000	B	2000	12	KITCHEN RECEPT	20/2	22
23			12	2000	C	2000	12			24
25	100/2	LIGHTING PANEL	2	7660	A	500	14	ADA DOOR	15/1	26
27			2	8550	B					28
29										30
31										32
33										34
35										36
37										38
39										40
41										42

PANEL IDENTIFICATION–DP1					VOLT 240/120 PHASE 1			MAIN LUG 100 AMP 30 CIRCUIT		
CKT NO	CB	CIRCUIT DESCRIPTION	AWG	VA	PHASE	VA	AWG	CIRCUIT DESCRIPTION	CB	CKT NO
1	20/1	LIGHTING CKT	12	1172	A	1312	12	LIGHTING CKT	20/1	2
3	20/1	LIGHTING CKT	12	1085	B	1000	12	LIGHTING CKT	20/1	4
5	20/1	LIGHTING CKT	12	464	A	1040	12	LIGHTING CKT	20/1	6
7	20/1	LIGHTING CKT	12	820	B	900	12	LIGHTING CKT	20/1	8
9	20/1	LIGHTING CKT	12	384	A	500	12	EMERGENCY LIGHTING	20/1	10
11	20/1	CONVENIENT RECEPT	12	800	B	2340	12	CONVENIENT RECEPT	20/1	12
13	20/1	CONVENIENT RECEPT	12	1440	A	1980	12	CONVENIENT RECEPT	20/1	14
15	20/1	CONVENIENT RECEPT	12	2340	B	900	12	CONVENIENT RECEPT	20/1	16
17	20/1	CONVENIENT RECEPT	12	2160	A	1620	12	CONVENIENT RECEPT	20/1	18
19	20/1	CONVENIENT RECEPT	12	1260	B	1800	12	CONVENIENT RECEPT	20/1	20
21					A	1800	12	CONVENIENT RECEPT	20/1	22
23										24
25										26
27										28
29										30

NOTES:
1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NEC, LOCAL BUILDING CODES AND LOCAL UTILITY REQUIREMENTS.
2. ALL ELECTRICAL MATERIALS SHALL BE U.L. LISTED.
3. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE. SUBCONTRACTORS SHALL ENSURE THAT ACCESS TO EQUIPMENT IS NAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATION AND APPLICABLE CODES.
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.
5. ELECTRICAL CONTRACTOR IS TO COORDINATE THE EXACT LOCATION OF SUSPENDED LIGHTING FIXTURES WITH ALL TRADES.
6. REFER TO HEATING AND VENTILATION, AIR CONDITIONING AND PLUMBING SECTIONS FOR REQUIRED CONTROL WIRING OF MECHANICAL EQUIPMENT.
7. POWER WIRING AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID WIRE. SERVICE ENTRANCE CONDUCTORS MAYBE ALUMINUM, IF PERMITTED BY THE LOCAL UTILITY.
8. ALL CONDUCTORS LARGER THAN #10 SHALL BE STRANDED COPPER WITH THWN 600 VOLT INSULATION UNLESS OTHERWISE SPECIFIED.
9. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING OF NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.. COORDINATE SHORT CIRCUIT REQUIREMENTS WITH LOCAL UTILITIES.
10. CONTRACTOR SHALL PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
11. ALL TELCO CONDUITS SHALL BE 4 INCH UNLESS OTHERWISE NOTED.
12. ALL METAL CONDUIT BUSHINGS SHALL BE PROVIDED WITH GROUNDING BUSHINGS.
13. CONTRACTOR SHALL PROVIDE ALL DIRECT BURIED CONDUITS WITH PLASTIC WARNING TAPE IDENTIFYING CONTENTS. TAPE COLORS SHALL BE PRANGE FOR TELEPHONE AND RED FOR ELECTRICAL.

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REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB–02
BDC PROPOSAL(S): 12–014
BDC JOB ORDER(S):
CLIENT DATA
SITE NAME: AUGUSTA

ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ELECTRICAL NOTES & DETAILS

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB–02_ELE–4A–0

BDC: P/DRAFTING/AB/AB–02/AB–02_ELE–4A–0

Classification: UNCLASSIFIED
Quality Category: NON–Q

SITE NAME: AUGUSTA

DRAWING NUMBER AB–02_ELE–4A–B

NOTES:
TO PROTECT CONSTRUCTION SITE AREAS AND ADJACENT SENSITIVE LAND AND WATERS OF THE STATE, THE FOLLOWING EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND MAINTAINED. THESE MEASURES HAVE BEEN ESTABLISHED TO CONFORM TO STATE OF MAINE EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES (BMP)".

THIS EROSION/STABILIZATION PLAN IS A MINIMUM THAT THE CONTRACTOR MUST DO. GIVEN SITE AND WEATHER CONDITIONS, ADDITIONAL MEASURES MAY BE NEEDED.

SOIL DISTURBANCE: THE CONTRACTED SHALL LIMIT THE EXTENT OF SOIL EXPOSED DURING CONSTRUCTION TO THE MINIMUM POSSIBLE. EXPOSED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 15 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL AND WITHIN 7 DAYS OF FINAL GRADING.

ROAD DITCHES: INLET AND OUTLET PROTECTION FOR CULVERTS: EXPOSED AREAS FOR ROAD DITCHING SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL. INLET AND OUTLET PROTECTION FOR CULVERTS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS OF INSTALLING EACH CULVERT, FIELD INLET OR STORM DRAIN OUTFALL.

SILT FENCING AND/OR HAY BALES: INSTALL SILT FENCES AND/OR HAY BALES AROUND SITE EXPOSED AREAS AS SHOWN ON THE SITE PLAN AND FOR ANY ADDITIONAL AREAS DETERMINED TO BE SUBJECT TO SEDIMENT EROSION AS A RESULT OF SITE CONDITIONS. SILT FENCING AND/OR HAY BALES WILL REMAIN IN PLACE UNTIL EXPOSED AREAS HAVE ACQUIRED STABILIZATION. INSTALL THE SILT FENCING AND.OR HAY BALES IN ACCORDANCE WITH DETAILS PROVIDED BY THE SITE PLAN.

STOCKPILING, HAUL ROADS, BORROW AREAS: THE CONTRACTOR SHALL VERIFY THAT STOCKPILING, HAUL ROAD, AND BORROW AREAS SHALL NOT BE LOCATED IN WETLANDS AND AREAS OF CONCENTRATED FLOWS. SILT FENCES, MULCHING, AND OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROVIDE SEDIMENTATION CONTROL TO THESE AREAS.

DUST CONTROL: THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

SITE EROSION/STABILIZATION MAINTENANCE: THE CONTRACTOR SHALL INSPECT THE AREAS ROUTINELY AND ESPECIALLY AFTER RAIN EVENTS AND SHALL REPAIR THE SEDIMENTATION CONTROLS, AS NECESSARY. THE CONTRACTOR SHALL MAINTAIN THE TEMPORARY AND PERMANENT SITE EROSION AND STABILIZATION CONTROLS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE SHALL INCLUDE PROVIDING PROTECTION AGAINST SITE TRAFFIC AND REPAIRING DAMAGES TO CONTROLS RESULTING FROM RAIN, WIND, OR OTHER EVENTS. DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH SOIL CONDITIONS AND GRADES AND SHALL INCLUDE RE-ESTABLISHING THE TEMPORARY OR PERMANENT FERTILIZING, LIMING, SEEDING, MULCHING CONDITIONS OBTAINED PRIOR TO THE DAMAGES.

TEMPORARY MEASURES FOR EROSION CONTROL:

THESE TEMPORARY MEASURES WILL PROTECT THE AREA UNTIL MORE PERMANENT SITE STABILIZATION MEASURES ARE ESTABLISHED. THE FOLLOWING MEASURES SHALL BE USED FOR TEMPORARY SITE STABILIZATION. REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-1 AND A-2 FOR ADDITIONAL INFORMATION ON TEMPORARY MEASURES FOR EROSION CONTROL.

TEMPORARY SEEDING: GRADE AND PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-10-10 FERTILIZER AT THE RATE OF 13.8#/1000FT2, APPLY LIMESTONE AT THE RATE OF 138#/1000FT2, APPLY WINTER RYE AT THE RATE OF 2½ #/1000FT2. NOTE – SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING, APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

TEMPORARY MULCHING: APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT2 TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

PERMANENT MEASURES FOR EROSION CONTROL:

FOR DISTURBED AREAS WITH SLOPES GREATER THAN 2:1, EROSION CONTROLS AND AREA STABILIZATION SHALL BE PROVIDED AS SHOWN BY THE SITE PLAN.

PERMANENT SEEDING: PROVIDE PERMANENT SEEDING AS EACH CONSTRUCTION AREA IS BROUGHT TO FINISH GRADE. PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-20-20 FERTILIZER AT THE RATE OF 18.4#/1000FT2, APPLY LIMESTONE AT THE RATE OF 138#/1000FT2, APPLY A MIXTURE OF KENTUCKY BLUEGRASS (45%), CREEPING RED FESCUE (45%), AND PERENNIAL RYEGRASS (10%) AT THE RATE OF 1#/1000FT2. NOTE – SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING, APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

TEMPORARY MULCHING: APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT2 TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

OVER-WINTER CONSTRUCTION AND STABILIZATION

IF THE CONSTRUCTION SITE IS NOT STABILIZED BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF CONSTRUCTION IS CONDUCTED DURING THE WINTER CONSTRUCTION PERIOD, LIMIT CONSTRUCTION EXPOSED AREAS TO ONLY THOSE AREAS REQUIRED FOR TELECOMMUNICATIONS FACILITY INSTALLATION, SUCH AS, ACCESS GRAVEL ROAD CONSTRUCTION, INSTALLATION OF UTILITIES, AND INSTALLATION OF TOWER, SHELTER AND EQUIPMENT. FINAL SITE GRADING, PERMANENT MEASURES FOR EROSION CONTROL, CONSTRUCTION AND STABILIZATION OF DITCHES AND CHANNELS SHALL BE PROVIDED AFTER WINTER CONSTRUCTION PERIOD. REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-3 FOR ADDITIONAL INFORMATION ON OVER-WINTER CONSTRUCTION AND STABILIZATION.

SEDIMENT BARRIERS: DURING FROZEN CONDITION, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS IF FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES.

MULCHING: HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE THAT IS TWICE THE NORMAL NON-WINTER PERIOD ACCEPTED RATE AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX, IF USED, MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. ANY SNOW WILL BE REMOVED DOWN TO ONE INCH DEPTH OR LESS PRIOR TO MULCHING APPLICATION. STOCKPILES OF SOIL WILL BE SIMILARLY MULCHED.

OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS: ALL DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15.

CONSTRUCTION SCHEDULE

(IN FOLLOWING SEQUENCE, COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES, MAINTAIN CONTINUOUSLY)

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE, PROJECT WIDE.
3. REMOVE AND STOCKPILE LOAM, PLACE SILT FENCE AT TOE.
4. SITE BLASTING AND PRIMARY EARTHWORK.
5. INSTALL DRAINAGE SYSTEM IMPROVEMENTS.
6. INSTALL DRAINAGE SYSTEM EROSION CONTROL MEASURES.
7. PROVIDE PRIMARY SLOPE STABILIZATION AND MULCHING OR TEMPORARY SEEDING.
8. FINAL SITE GRADING, PERMANENT SLOPE PROTECTION, PERMANENT SEEDING.
9. AFTER SITE IS STABILIZED AND COMPLETE, REMOVE TEMPORARY EROSION CONTROL MEASURES.

PIPE INLET PROTECTION

INLET PROTECTION, (RIPRAP D50=6")
SHALL EXTEND AT LEAST ONE PIPE DIAMETER BEYOND THE CONDUIT. RIPRAP SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF MAINE "BMP". RIPRAP PROTECTION SHALL BE UNDERLAIN WITH MIRAFI 600X GEOTEXTILE FABRIC TO PREVENT PIPING THROUGH THE BACKFILL MATERIAL.

GENERAL NOTES:

AGGREGATE FOR GRAVEL BASE:

AGGREGATE FOR GRAVEL BASE SHALL BE SCREENED OR CRUSHED GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVE	
	TYPE A AGGREGATE	TYPE D AGGREGATE
½ INCH	45–70	---
¼ INCH	30–55	25–70
No. 40	0–20	0–30
No. 200	0–5	0–5

TYPE "A" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE "D" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYOUT OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION. AGGREGATE BASE AND SUB-BASE COURSES MAY BE PLACED UPON FROZEN SURFACES WHEN SUCH SURFACES HAVE BEEN PROPERLY CONSTRUCTED.

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYED. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE ⅜ INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

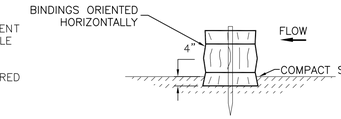
AGGREGATE FOR SUB-BASE:

AGGREGATE FOR SUB-BASE SHALL BE TYPE "D" (MDOT). IT SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

COMMON BORROW:
COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

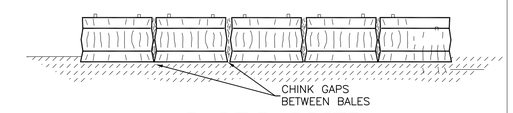
THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM.

ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAX. DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.

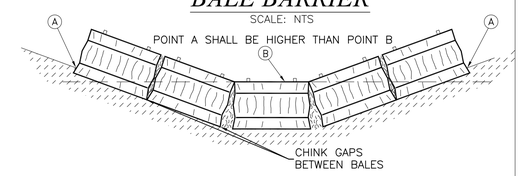


MAINTENANCE:
- THE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. THEY MUST BE REMOVED WHEN THE BARRIER IS REMOVED.

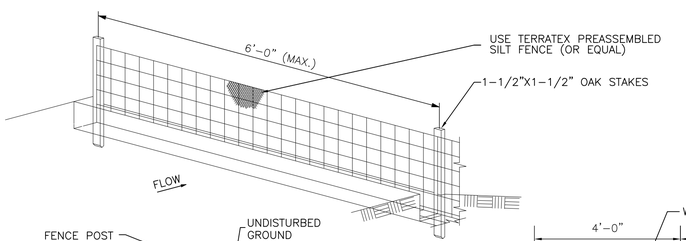
NOTES:
- BALES ARE HAY OR STRAW, DIMENSIONS: 14" X 18" X 30", WIRE OR NYLON, PLACED IN DRAINAGE AREAS, UPON THE CONTOUR OF THE GROUND. BALES ARE TO BE PLACED IN A ROW, WITH ENDS TIGHTLY SET AGAINST THE ADJACENT BALE.
- EACH BALE IS TO BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND ANCHORED IN PLACE BY STAKES DRIVEN THROUGH THE BALES INTO THE GROUND AT LEAST 18". THE STAKES ARE TO BE DRIVEN IN SUCH A MANNER AS TO FORCE THE ENDS OF THE BALES TOGETHER. STAKES MAY BE REBAR STEEL PICKETS, 2" X 2" SOFTWOOD, OR 1" X 1" HARDWOOD.

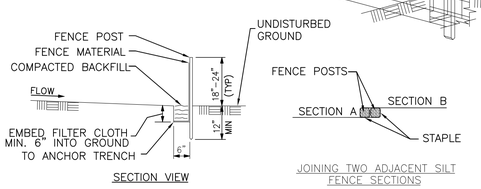


BALE BARRIER
SCALE: NTS



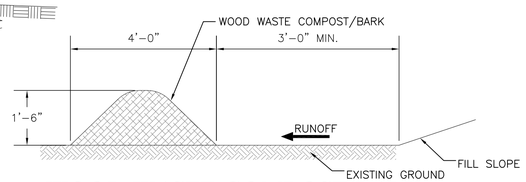
7 CIV-1A, 1B DITCH BALE BARRIER
SCALE: NTS





1 CIV-1A, 1B SILT FENCE DETAIL
SCALE: NTS

NOTES:
1. SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SILT FENCE OF FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
4. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.



WOOD WASTE COMPOST/BARK FILTER BERM ALTERNATIVE
SCALE: NTS

WOOD WASTE COMPOST/BARK FILTER BERMS NOTES:
THE FILTER BERM SHALL CONSIST OF A WOOD WASTE COMPOST/BARK MULCH MIX OR RECYCLED COMPOSTED BARK FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLED SYSTEMS. COMPOSTED MIXES CAN BE USED UPON APPROVAL OF THE OFFICE OF ENVIRONMENTAL SERVICES LANDSCAPE UNIT.

THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. MOISTURE CONTENT – 30-60%
B. pH – 5.0-8.0
C. SCREEN SIZE – 100% LESS THAN 3", MAXIMUM 70% LESS THAN 1".
D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION
E. NO STONES LARGER THAN 2" IN DIAMETER

THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.

NOTE:
WOOD WASTE COMPOST/BARK FILTER BERMS MAY BE USED IN COMBINATION WITH SILT FENCE TO IMPROVE SEDIMENT REMOVAL AND PERVENT CLOGGING OF THE WOOD WASTE COMPOST/BARK BERM BY LARGER SEDIMENT PARTICLES. (SILT FENCE PLACED TO FILTER RUNOFF BEFORE WOOD WASTE COMPOST/BARK).

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO ROAD.

8 CIV-1A STABILIZED CONSTRUCTION EXIT
SCALE: NTS

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REV	DATE	BY	CHK'D	REV'D	APP'D
0	10/21/13	AMD	AMC	MJT	JRH

REVISION NOTES: ORIGINAL ISSUE.

BDC PROJECT(S): AB-02
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ARCH BETA COMMUNITY CENTER
AUGUSTA, MAINE
ENVIRONMENTAL DETAILS AND NOTES

BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER AB-02_ENV-1A-0

BDC: P/DRAFTING/AB/AB-02/AB-02_ENV-1A-0