

CONSTRUCTION DRAWINGS OCTOBER 2024





SOUTH 199 prospect street, suit portland, maine 04101

NORTH 26 balsam drive Millinocket, maine 04462

PH: 207.347.5252 arcadiadesignworks.con

SOUTHERN MAINE COMMUNITY COLLEGE HORTICULTURE GREENHOUSE MIDCOAST CAMPUS, BRUNSWICK, MAINE BGS PROJECT #3674

e A	TNCOLN/HAN EST. 1983 ENGINEERING	TELINES ngineers • Land Surveyors
<u>2</u> n	BENN BENNE BENNE MECHANICAL • E	ERING ELECTRICAL

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A01 A02 A10 A11 A20 A30 A40	COV DOC LIFE GRC ROC EXTI BUIL WAL
C1	COV
C2	EXIS
C3	SITE
C4	GRA
C5	ERO
C6	SITE
C7	ERO
L1	LIGH
L2	HOF
C6	S
C7	El
L1	LI
L2	H

214
FOl
SEC

E10	GEN
E11	ELE
E12	ELE
M101	MEC
M201	MEC

ST OF DRAWINGS

VER SHEET OR SCHEDULE, DETAILS & STANDARDS SAFETY PLAN & CODE REVIEW OUND LEVEL & FURNITURE PLANS OF PLAN **ERIOR ELEVATIONS** LDING SECTIONS & DETAILS LL SECTIONS

VER SHEET STING CONDITIONS AND DEMOLITION PLAN E LAYOUT PLAN ADING AND DRAINAGE PLAN OSION CONTROL PLAN E DEVELOPMENT DETAILS DSION CONTROL DETAILS AND NOTES HTING PLAN RTICULTURE GARDEN [PROVIDED BY OWNER]

S0.1 STRUCTURAL NOTES UNDATION PLAN CTIONS AND DETAILS

NERAL NOTES AND DETAILS ECTRICAL AND LIGHTING PLANS ECTRICAL SITE PLAN CHANICAL PLAN CHANICAL DETAILS & LEGEND M202 MECHANICAL SCHEDULES



GENERAL NOTES

ARCHITECTURAL SYMBOLS



DOOR SCHEDULE								
DOOR TAG	ROOM NAME	SIZE	DOOR PROFILE	MTRL	FRAME PROFILE	MTRL	HARDWARE SET	REMARKS
10A	ENTRY	3' x 7'	DG	ALUM	3	ANOD. ALUM	A	LOCKABLE, LEVER, CLOSER, WITH SIDELITE, WEATHERSTRIP
10B	OVERHEAD DR.	8' x 10'	COILING	STL PTD	-	STL PTD	-	MANUAL OPERATION, METAL COILING, VISION PORTS
10C	CONTAINER PRODUCTION	(2) 3' x 7'	HG	ALUM	2	ANOD. ALUM	В	PASSAGE, LEVER, CLOSER & KICKPLATE (BOTH SIDES)
10D	CONTAINER PRODUCTION	3' x 7'	NL	ALUM	1	ANOD. ALUM	A	LOCKABLE, LEVER, CLOSER, WEATHERSTRIP
11A	HYDROPONICS	3' x 7'	NL	ALUM	1	ANOD. ALUM	A	LOCKABLE, LEVER, CLOSER, WEATHERSTRIP
11B	HYDROPONICS	3' x 7'	HG	ALUM	1	ANOD. ALUM	С	PASSAGE, LEVER, CLOSER, KICKPLATE (BOTH SIDES)
11C	HYDROPONICS	3' x 7'	NL	ALUM	1	ANOD. ALUM	A	LOCKABLE, LEVER, CLOSER, WEATHERSTRIP

ARCHITECTURAL ABBREVIATIONS

NORTH DESIGNATION



3

ABV AFF AP ACT ADD'I	ABOVE ABOVE FINISHED FLOOR ACCESS PANEL ACOUSTICAL TILE ADDITIONAI	IN INCL INFC INSL
ADJ A/C ALUM ALT AVG	ADJUSTABLE AIR CONDITIONING ALUMINUM ALTERNATE AVERAGE	MAN MO MAX MEC MTL MIN
BM BLK BLKG BD BS	BEAM BLOCK BLOCKING BOARD BOTH SIDES	MISC M.R. MNT NSF
BOT BRK BLDG	BOTTOM BREAK BUILDING	NA OC OPN
CLG CL CT CLR CLO COL CONC CMU CONT CONT	CEILING CENTERLINE CERAMIC TILE CLEAR CLOSET COLUMN CONCRETE CONCRETE MASONRY UNIT CONTINUOUS CONTRACTOR	OPP PTD PNL PERF PLAN PLMI PLYV PT
CV CV	CONTROL JOINT COVE	QTY
DTL DIA DISP DR DO D'BL DWG	DETAIL DIAMETER DISPENSER DOOR DOOR OPENING DOUBLE DRAWING	REC REF REIN RT REQ RM RO
EA EW ELEC EL ELEV EQ EXIST EXISTG EXP EXT	EACH EACH WAY ELECTRIC ELEVATION EQUAL EXISTING EXISTING EXPANSION EXTERIOR	SAN SCH SHT SIM STC SPEC STNI SS STD STD STL STO
FG FE FIN FIXT FLR FD FND FND FRT FTG	FIBERGLASS FIRE EXTINGUISHER FINISH FIXTURE FLOOR FLOOR DRAIN FOUNDATION FRONT FOOTING	SYS TEL T/D TEM THK T.P. T&G TYP
GA GALV	GAUGE GALVANIZED	UL
GB GRND GSF GYP GWB	GRAB BAR GROUND GROSS SQUARE FEET GYPSUM GYPSUM WALLBOARD	VCT VER VES
H/C HRDWR HI DENS HM HORIZ HB HR	HANDICAPPED HARDWARE HIGH DENSITY HOLLOW METAL HORIZONTAL HOSE BIB HOUR	WIN W/ WD WP

INCH INCL INCLUDED INFORMATION INFO INSUL INSULATION MANUFACTURER MANF MO MASONRY OPENING MAX MAXIMUM MECH MECHANICAL METAL MTL MIN MINIMUM MISC MISCELLANEOUS M.R. MOISTURE RESISTANT MNTD MOUNTED NSF NET SQUARE FEET NOT APPLICABLE OC ON CENTER OPNG OPENING OPP OPPOSITE PAINTED PTD PNL PANEL PERFORATED PERF PLAM PLASTIC LAMINATE PLUMBING PLMBG PLYWD PLYWOOD PRESSURE TREATED QTY QUANTITY RECOMMENDATION RECOM REF REFERENCE REINF REINFORCMENT **RESILIENT TILE** REQ'D REQUIRED RM ROOM RO ROUGH OPENING SAN SANITARY SCH SCHEDULET SHT SHEET SIM SIMILAR STC SOUND TRANSIMISSION SPEC SPECIFICATION STND STAINED STAINLESS STEEL STD STANDARD STL STEEL STO STORAGE STRUCT STRUCTURAL SYSTEM SYS **TELEPHONE** TEL T/D **TELEPHONE & DATA** TEMP TEMPERATURE THK THICK T.P. TOILET PAPER T&G **TONGUE & GROOVE** ΤΥΡ TYPICAL UNDERWRITERS LABORATORY VCT VINYL COMPOSITE TILE VERT VERTICAL VESTIBULE VEST WR WALL RECEPTACLE

WINDOW WITH WOOD WATERPROOFING

 $\frac{\text{BAR SCALE}}{1/4"} = 1'-0"$ CHECK GRAPHIC SCALE BEFORE USING

DOOR SCHEDULE, DETAILS & STANDARDS

ADAR202319 - OCT 2024



Building & Life Safety Code Review 2-Bay Greenhouse - Southern Maine Community College Midcoast Campus, Admiral Fitch Drive, Brunswick, Maine

Redevelopment Authority.	
Zoning District: GM-7	
Signage: Permitted separately.	

2015 Maine Uniform Building and Energy Code (MUBEC) 2018 Life Safety Code- NFPA 101

Americans with Disabilities Act, ADA, 1990 / Amended 2008. 2010 ADA Standards for Accessible Design

Project Description: Educational/Agriculture

Building Construction Type: Unprotected Metal Frame and Polycarbonate Panel: V-000. New Construction - Pre-engineered and manufactured greenhouse structure. No Automatic Sprinkler or Fire Alarm System

The 2-bay greenhouse is a manufactured building installed on a site-constructed concrete foundation and slab for teaching horticulture.

Occupancy: 100 sq.ft. per occupant NFPA and 300 sq.ft. per occupant IBC.

No.	ROOM	SIZE (NSF)	NFPA	IBC *	
10	CONTAINER PRODUCTION	2,800			
11	HYDROPONICS	2,800			
		5,600			
* T	OTAL PLANT BENCH/TABLE AREA	(1,764)			
		3,836	/100 = 39	/300 = 13	39 TOTAL OCC

NFPA 101

- Chapter 4 General: Number of Means of Egress Each room has multiple exit doors on-grade.
- Chapter 6 Classification of Occupancy: Industrial NFPA and Agriculture IBC Bays and potting areas for growing plants. Chapter 7 - Means of Egress
 - Minimum door leaf width. Doors 3'-0" wide with no doors encroaching upon means of egress.
- Horizontal Exits and Exit Passageways Comply Exit access from rooms or spaces shall be permitted to be through adjoining or intervening rooms or areas provided
 - that such rooms are accessory to the area served. [Rooms comply.]
 - 7.6 Measurement of Travel Distance to Exits
 - Table A.7.6 Common path (CP), dead end (DE), and travel distance (TD) limits.
 - Industrial CP 100 ft [Complies] DE 50ft [None Exist] TD 200 [Actual 14 ft Longest] Discharge Through Areas on Level of Exit Discharge. Complies
 - Illumination Emergency lighting to comply with overhead fixtures with central battery backup.
 - Marking of Means of Egress Exits properly labeled with illuminated signage.
- Chapter 8 Features of Fire Protection
 - 8.2 Construction and Compartmentation

Table A.8.2.1.2 Fire Resistance Rating - Type V(000). Concrete, galvanized steel framing and polycarbonate walls and roof panels

Chapter 9 - Fire Protection Equipment: Emergency lighting, exits properly labeled and fire extinguishers at multiple locations. Chapter 10 - Interior Finish, Contents, and Furnishings: Wall polycarbonate and floor concrete finishes comply.

INTERNATIONAL BUILDING CODE 2015

- Chapter 3 Use and Occupancy Classification Group U Agriculture.
- Chapter 4 Special Detailed Requirements Based on Use and Occupancy No hazardous storage.
- Chapter 5 General Building Heights and Areas Allowable building height 40 feet. Actual building height 22 feet. Chapter 6 - Types of Construction - Table 601 - Primary structural frame Type VB.
- Chapter 7 Fire and Smoke Protection Features Adjacent buildings are greater than 30 feet from new building.
- Chapter 8 Interior Finishes Exposed concrete floor and polycarbonate wall panels typical to greenhouse construction. Chapter 9 - Building does not have a sprinkler system. The building is area is 5,600 GSF. Occupant load is less than 500 Occupants
 - and entire building on grade with each room having multiple exit doors.
 - Fire extinguishers to be provided at specific locations.
- Chapter 10 Means of Egress

Section 1003 General Means of Egress - Ceiling Heights shall be greater than 7'-6". No projections shall encroach upon clear means of egress beyond the 4-1/2". Floor surfaces shall be slip-resistant and no elevation changes or slope surfaces exist beyond thresholds.

- Section 1004 Occupant Load Agricultural occupancy as noted in above matrix.
- Section 1005 Egress Width All means of egress widths greater than 36".
- Section 1008 Proper illumination will be provided.
- Section 1016 Exit Access Egress from adjoining rooms are accessory to one another.
- Section 1017 Exit Access Travel Distance Travel distance is less than 200 feet.
- Section 1018 Corridors There are established corridors or dead end corridors.

Section 1021 Number of Exits and Continuity - All rooms are on ground level with exit doors to the outside. Section 1027 Exit Discharge - All exits discharge directly to the exterior on grade.

CODE REVIEW





arcadiadesignworks.com













SOUTH 199 prospect street, suite A portland, maine 04101 NORTH 22 balsam drive Millinocket, maine 04462 PH: 207.347.5252 & 207.749.9306





SUMMIT GEOENGINEERING SERVICES







SOUTH 199 prospect street, suite A portland, maine 04101 NORTH 22 balsam drive Millinocket, maine 04462









SOUTHERN MAINE COMMUNITY COLLEGE



- RIDGE PANEL VENTS,

MOTORIZED

GREENHOUSE

TRANSPARENT

POLYCARBONATE PANELS

- RIDGE PANEL VENTS,

MOTORIZED -

F=====

MECH





199 prospect street, suite A

Millinocket, maine 04462

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PH: 207.347.5252 & 207.749.9306

portland, maine 04101

NORTH

22 balsam drive



CONSTRUCTION DRAWINGS

COLLEGE

MIDCOAST CAMPUS, BRUNSWICK, MAINE

REVISIONS:



BUILDING SECTIONS & DETAILS

ADAR202319 - OCT 2024







CONSTRUCTION DRAWINGS



GENERAL NOTES:

1. DRAWINGS ARE BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION FROM MULTIPLE SOURCES BY SITELINES, PA.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES AND IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE (1-800-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IN AREAS OF POTENTIAL CONFLICTS TEST PITS SHALL BE REQUIRED TO VERIFY EXISTING UTILITY LOCATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

3. RIM ELEVATIONS OF PROPOSED SANITARY SEWER MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE WITHIN LIMITS OF WORK.

4. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, CABLE AND FIRE ALARM). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER AND ARCHITECT.

5. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATIONS, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE CONSTRUCTION MANAGER REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT.

6. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS AND GRADES BEFORE WORK BEGINS. CONTRACTOR SHALL CONFIRM LOCATION AND DEPTH ALL UTILITY LINE CROSSINGS WITH TEST PITS PRIOR TO BEGINNING WORK. CONFLICTS SHALL BE REPORTED IN WRITING TO CONSTRUCTION MANAGER FOR RESOLUTION OF THE CONFLICT.

7. ALL AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION NOT COVERED WITH BUILDINGS, STRUCTURES, OR PAVEMENT SHALL RECEIVE 4 INCHES OF LOAM AND SEED.

8. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND SHALL BE RESPONSIBLE FOR PAYING ANY FEES FOR ANY POLE RELOCATION AND FOR THE ALTERATION OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.

9. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED.

10. ALL PROPERTY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE RESET TO THEIR ORIGINAL LOCATION BY A MAINE REGISTERED LICENSED PROFESSIONAL LAND SURVEYOR (PLS) AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PREPARE AN AS-BUILT PLAN SURVEY SHOWING LOCATIONS OF ALL SURFACE FEATURES AND SUBSURFACE UTILITY SYSTEMS INCLUDING THE LOCATION TYPE, SIZE AND INVERTS.

11. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN ALL EROSION CONTROL MEASURES AND SEEDED EMBANKMENTS DURING CONSTRUCTION. EROSION CONTROL SHALL BE REMOVED ONLY UPON THE ESTABLISHMENT OF ALL LANDSCAPED AREAS. ALL WORK SHALL BE IN COMPLIANCE WITH THE ENVIRONMENTAL QUALITY HANDBOOK FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION, AS ADOPTED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

13. ALL MATERIALS AND CONSTRUCTION METHODS USED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL LOCAL MUNICIPAL STANDARDS AND MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

14. THE CONTRACTOR IS REQUIRED TO CONTROL DUST DURING CONSTRUCTION. EXPOSED SOIL AREAS SHALL BE SPRAYED WITH WATER AS NEEDED TO CONTROL DUST EMISSIONS. COVER EXPOSED SOIL AREAS AS QUICKLY AS PRACTICAL TO PREVENT WINDS FROM GENERATING DUST.

15. ALL HANDICAP ACCESSIBLE PARKING SPACES, RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

16. ALL SITE SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

17. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.

18. ALL MATERIALS SHALL BE NEW AND PROVIDED BY THE CONTRACTOR.

19. CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE NAVY COORDINATOR PRIOR TO START OF CONSTRUCTION.

LAYOUT NOTES:

1. ALL DIMENSIONING, UNLESS NOTED OTHERWISE, IS TO THE FACE OF CURB OR FOUNDATION.

2. OFFSETS TO CATCH BASINS AND MANHOLES ARE TO THE CENTER OF THE FRAME

3. PIPE LENGTH EQUALS THE CENTER TO CENTER DISTANCES BETWEEN CATCH BASINS AND/OR MANHOLES MINUS ONE HALF THE DIAMETER OF EACH CATCH BASIN OR MANHOLE.

4. BOUNDARY INFORMATION ON LAYOUT PLAN IS FOR REFERENCE ONLY, REFER TO CERTIFIED BOUNDARY PLANS FOR BOUNDARY INFORMATION.

GRADING AND DRAINAGE NOTES:

1. UN	LESS (otherwise	E NOTED,	ALL ST	ORM DRAI	N PIPE S	SHALL BE	IN AC	CORDANCE	WITH	MDOT :	SPECIFICATIO	NS SECTION	ON 603.	PIPE C	ULVERTS	
AND S	STORM	DRAINS,	LATEST F	REVISION	WITH THE	E EXCEP	TION THAT	THE	ONLY ACC	EPTABL	E TYPE	ES OF PIPE /	ARE AS F	OLLOWS:			
	POLY	VINYL CHI	LORIDE P	IPE (PVC	C) SDR 35	5											
	SMO	OTH BORE	POLYETH	IYLENE F	PIPE – H	DPE N-1	2 ADS OF	SDR	35								

2. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.

3. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.

PERMITTING REQUIREMENTS:

AGENCY:	PERMIT:	STATUS:
TOWN OF BRUNSWICK	MINOR DEVELOPMENT REVIEW BUILDING	APPROVED 09/11/24 (BY CONTRACTOR)



STATE LAW REQUIRES ADVANCE NOTICE OI T LEAST 3 BUSINESS DAYS BEFORE YOU DIG GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES

CALL DIG SAFE UTILITY LOCATION

BF

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FAIRPOINT BATH ROAD (P.O. BOX 360) **BRUNSWICK, MAINE 04011** 207-442-8018

COMCAST CONSTRUCTION OFFICE 336 BATH ROAD BRUNSWICK, MAINE, 04011 207-729-6660

SMCC GREENHOUSE BUILDING

29 SEWALL STREET BRUNSWICK, MAINE

PREPARED FOR: SOUTHERN MAINE COMMUNITY COLLEGE

TOWN/UTILITY CONTACTS

CODE ENFORCEMENT

MIKE PINDELL TOWN OF BRUNSWICK **85 UNION STREET BRUNSWICK, MAINE 04011** 207-725-6650

ELECTRIC SERVICE

CENTRAL MAINE POWER 280 BATH ROAD RUNSWICK, MAINE 04011 207-721-8054

EPHONE SERVICE

CABLE SERVICE

TOWN ENGINEER

TREY CREWS, P.E. **85 UNION STREET BRUNSWICK, MAINE 04011** 207-725-6659

WATER SERVICE

BRUNSWICK-TOPSHAM WATER DISTRICT CRAIG DOUGLAS, P.E., GENERAL MANAGER BOX 580 BRUNSWICK, MAINE 04011

PHONE:207-729-9956

SANITARY SEWER

BRUNSWICK SEWER DISTRICT ROBERT PONTAU. GENERAL MANAGER **10 PINE TREE ROAD BRUNSWICK, MAINE 04011** PHONE: 207-729-0148

PUBLIC WORKS DEPARTMENT

RYAN LEIGHTON, PUBLIC WORKS DIRECTOR 9 INDUSTRY ROAD BRUNSWICK. MAINE 04011 207-725-6654

BRUNSWICK FIRE DEPARTMENT

KENNETH BRILLANT, FIRE CHIEF **119 PLEASANT STREET BRUNSWICK, MAINE 04011** 207-725-5541

TOWN ARBORIST

DENNIS WILSON 22 NEPTUNE DRIVE **BRUNSWICK, MAINE 04011** 207-725-6656

	SHEET INDEX	
SHEET #	SHEET TITLE:	SCALE:
C1	COVER SHEET	NTS
C2	EXISTING CONDITIONS AND DEMOLITION PLAN	1"=30'
C3	SITE LAYOUT PLAN	1"=30'
C4	GRADING AND DRAINAGE PLAN	1"=30'
C5	EROSION CONTROL PLAN	1"=30'
C6	SITE DEVELOPMENT DETAILS	NTS
C7	EROSION CONTROL NOTES	NTS
L1	LIGHTING PLAN	1"=30'
L2	LANDSCAPE PLAN (PROVIDED BY SKILLINS)	1"=5'

PROJECT TEAM

CIVIL ENGINEER

SITELINES P.A. ATTN: JOSEPH J. MARDEN P.E. 119 PURINTON ROAD, SUITE A **BRUNSWICK, MAINE 04011** 207-725-1200 WWW.SITELINESPA.COM

SURVEYOR

SITELINES P.A. ATTN: KEVIN CLARK, PLS 119 PURINTON ROAD, SUITE A **BRUNSWICK, MAINE 04011** 207-725-1200 WWW.SITELINESPA.COM



LEGEND





GEOTECHNICAL

SUMMIT GEOENGINEERING SERVICES ATTN: CRAIG COOLIDGE, P.E **173 PLEASANT STREET** ROCKLAND, MAINE 04841 PHONE: 207-318-7761

ARCHITECTURE

ARCADIA DESIGNWORKS 199 PROSPECT STREET, SUITE A PORTLAND, ME 04101 PHONE: 207-347-5252

	2. 10–18–24	ISSUED FOR BID	DING	JJM
	1. 09-04-24	SUBMITTED TO	TOWN FOR MINOR STAFF REVIEW	/ JJM
	TITLE:	CO	VER SHEET	
	PROJECT: 29 S	SMCC GR EWALL STR	EENHOUSE BUILDING EET, BRUNSWICK, ME	04011
	prepared for: SO 29	UTHERN MA SEWALL S	INE COMMUNITY COL T, BRUNSWICK, ME C	LEGE 94011
JOSEPH J.			SITEL 119 PURINTON RO BRUNSWICK, MA 207.725.1 PLANNERS • LAND SU	AD, SUITE A NINE 04011 200 IRVEYORS
12828	FIELD WK: C	Ή	SCALE: NTS	SHEET:
Sa CICENSED	DRN BY: JJN	И	JOB #: 4893	
ONAV ENT	CH'D BY: JJN	А	MAP/LOT: 40/151	
// / 10-18-24	DATE: 03-14-	24	FILE: 4893-COV-DET	



1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS. CONTRACTOR TO INSTALL EROSION CONTROL DEVICES IN

4. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT INJURY, DAMAGE

OBSTRUCT STREETS. WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF THE DEVELOPER AND APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATIVE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY

7. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY, TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING

MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON SITE. REMOVAL OF HAZARDOUS

ENTERING DURING CONSTRUCTION. SEE DETAIL SHEETS FOR EROSION CONTROL DEVICES.



NOTES:

THIS PLAN DEPICTS CONDITIONS FOUND AND SURVEYED BY SITELINES PA AS OF MARCH 2024. SUPPORTING DATA IS FROM THE INFORMATION BELOW.

- 1. <u>TITLE REFERENCE FOR SURVEYED PARCEL:</u>
- BK 28821, PG 185
- 2. PLAN REFERENCE(S):
- a. "FINAL SUBDIVISION PLAN, BRUNSWICK LANDING SUBDIVISION PHASE 1, BRUNSWICK LANDING, BRUNSWICK, CUMBERLAND COUNTY, MAINE" REVISED 3/11/2013; RECORDED IN PLAN BOOK 213 PAGES 79 THROUGH 85
- b. "AMENDMENT OF SUBDIVISION PLAN, BRUNSWICK LANDING SUBDIVISION PHASE 1, BRUNSWICK LANDING, BRUNSWICK, CUMBERLAND COUNTY, MAINE" REVISED 06/11/2014, RECORDED IN PLAN BOOK 214 PAGES 247 THROUGH 253.
- 3. AREA INFORMATION:
- 3.8± ACRES
- 4. TAX MAP REFERENCE:
- TAX MAP 40, LOT 151.
- 5. BASIS OF BEARINGS:
- BEARINGS ARE PER PLAN REFERENCE "A".
- 6. UTILITY INFORMATION:

THERE MAY BE UNDERGROUND CONDUIT, WIRES, CABLES AND/OR STRUCTURES NOT SHOWN ON THIS PLAN. THE LOCATIONS SHOWN ARE BASED ON SURFACE FEATURES

VISIBLE AT THE TIME OF SURVEY AND POSSIBLY FROM INFORMATION PROVIDED BY THE OWNER, MUNICIPAL GIS DATA, AND/OR UTILITY COMPANIES, NO EXCAVATIONS WERE MADE DURING THE COURSE OF THE SURVEY TO VERIFY OR LOCATE ANY UNDERGROUND STRUCTURES. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATING BY CONTACTING THE APPROPRIATE UTILITY COMPANY. STATE LAW REQUIRES DIG-SAFE BE CONTACTED PRIOR TO EXCAVATION.

MAP/LOT: 40/151

FILE: 4893-SITE

2. 10–18–24 ISSUED FOR BIDDING JJM 1. 09-04-24 SUBMITTED TO TOWN FOR MINOR STAFF REVIEW JJM **EXISTING CONDITIONS** AND DEMOLITION PLAN PROJECT: SMCC GREENHOUSE BUILDING 29 SEWALL STREET, BRUNSWICK, ME 04011 PREPARED FOR: SOUTHERN MAINE COMMUNITY COLLEGE 29 SEWALL ST, BRUNSWICK, ME 04011 OF GRAPHIC SCALE **119 PURINTON ROAD, SUITE A** BRUNSWICK, MAINE 04011 207.725.1200 JOSEPH **CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS** J. MARDEN 12828 (IN FEET) SHEET: SCALE: 1"=30' FIELD WK: CH 1 inch = 30 ft.CFNSE JOB #: 4893 DRN BY: JJM

CH'D BY: JJM

DATE: 03-14-24

10-18-24





LAYOUT NOTES:

1. ALL DIMENSIONING, UNLESS NOTED OTHERWISE, IS TO THE FACE OF CURB OR FOUNDATION.

2. BOUNDARY INFORMATION ON LAYOUT PLAN IS FOR REFERENCE ONLY, REFER TO CERTIFIED BOUNDARY PLANS FOR BOUNDARY INFORMATION.

3. ALL HANDICAP ACCESSIBLE PARKING SPACES, RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

4. ALL SITE SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD) 5. BUILDING FOUNDATION SHOWN IS NOT FOR FOUNDATION LAYOUT. COORDINATE SITE WORK WITH ARCHITECTURAL DRAWINGS INCLUDING BUILDING FEATURES AND FOUNDATION PLAN.

6. REFER TO SHEET C4 FOR GRADING AND DRAINAGE INFORMATION. 7. REFER TO SHEET L1 FOR LIGHTING INFORMATION.

SEWER STRUCTURE DATA: S1: 4" PVC L=215' S=0.0080 MIN.

BIDDING



GENERAL NOTES:

1. TITLE REFERENCE FOR SURVEYED PARCEL:

BK 28821, PG 185

2. PLAN REFERENCE(S):

a. "FINAL SUBDIVISION PLAN, BRUNSWICK LANDING SUBDIVISION - PHASE 1, BRUNSWICK LANDING, BRUNSWICK, CUMBERLAND COUNTY, MAINE" REVISED 3/11/2013; RECORDED IN PLAN BOOK 213 PAGES 79 THROUGH 85 b. "AMENDMENT OF SUBDIVISION PLAN, BRUNSWICK LANDING SUBDIVISION - PHASE 1, BRUNSWICK LANDING, BRUNSWICK, CUMBERLAND COUNTY, MAINE" REVISED 06/11/2014, RECORDED IN PLAN BOOK 214 PAGES 247 THROUGH 253.

3. AREA INFORMATION:

- LOT AREA: 3.8± ACRES
- 4. TAX MAP REFERENCE:

TAX MAP 40, LOT 151

- 5. BASIS OF BEARINGS:
- BEARINGS ARE PER PLAN REFERENCE "A".
- 6. ELEVATION DATUM:
 - REFER TO BENCHMARKS SHOWN ON SHEET C2.

7. FLOOD ZONE INFORMATION:

PARCEL IS LOCATED WITHIN ZONE C (AREAS OF MINIMAL FLOODING) OF THE FLOOD INSURANCE RATE MAPS FOR CUMBERLAND COUNTY, MAINE. THE PROJECT IS LOCATED ON PANEL 15 OF 35 (COMMUNITY PANEL 2300420015B, EFF. DATE JANUARY 3, 1986)

8. IMPERVIOUS AREA*:



<u>9.684 S.F</u> –1,741 S.F NET:

*WITHIN PROPOSED DEVELOPMENT AREA

UTILITY NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS A COMPILATION OF THAT FOUND IN THE FIELD AND THAT SHOWN ON A PREVIOUS PLANS, AND SHALL NOT BE CONSIDERED AN AS-BUILT PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND. CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) PRIOR TO EXCAVATION.

GROWTH-MIXED USE 7 ZONING D	ISTRICT (GM7)
ZONING STANDARD	REQUIRED (GM7)
MIN. LOT SIZE:	7,000 S.F.
MIN. LOT WIDTH:	N/A
YARD DEPTH:	
FRONT:	0'
REAR:	0'
SIDE:	0'
MIN. HEIGHT	24'
MAX. HEIGHT:	40'
MAX. FOOTPRINT:	NONE
MAX. IMPERVIOUS SURFACE COVERAGE:	100%

FILE: 4893-SITE

		2. 10–18–24	ISSUED FOR BIDE	DING	JJM
		1. 09-04-24	SUBMITTED TO T	OWN FOR MINOR STAFF REVI	EW JJM
		TITLE:	SITE L	AYOUT PLAN	[
		PROJECT: 29 S	SMCC GRI SEWALL STRE	EENHOUSE BUILDIN EET, BRUNSWICK, M	G NE 04011
		PREPARED FOR: SC 29	DUTHERN MAI 9 SEWALL ST	NE COMMUNITY CO , BRUNSWICK, ME	DLLEGE 04011
GRAPHIC SCALE	JOSEPH		GINEERS • P	SITEL 119 PURINTON F BRUNSWICK, M 207.725 LANNERS • LAND	ROAD, SUITE A MAINE 04011 5.1200 SURVEYORS
(IN FEET)	MARDEN ア 12828 近こ	FIELD WK: (СН	SCALE: 1=30"	SHEET:
1 incn = 30 ft.		DRN BY: JJ	M	JOB #: 4893	
ISSUED FOR:	ONAL AND	CH'D BY: JJ	M	MAP/LOT: 40/151	T U J

10–18–24 DATE: 03-14-24

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EROSION & SEDIMENT CONTROL (ESC) NOTES:

PRECIPITATION OF MORE THAN 0.5 INCHES.

4. CONTRACTOR TO SWEEP EXISTING PAVED ACCESS AS NEEDED TO REMOVE TRACKED SOILS.

PRIOR TO THE PLACEMENT OF ANY BINDER PAVEMENT.

11. SEE ADDITIONAL NOTES ON SHEET C7, EROSION CONTROL NOTES.

BIDDING

10-18-24

DATE: 03-14-24

FILE: 4893-SITE

¥				
ION OF SITELINES PA. ANY MODIFICATION, CHANGE OR USE OF THIS DRAWING WITHOUT THE EXPRESS WRITTEN PERMISSION OF SITELINES PA IS WRONGFUL AND IS AT THE USER'S RISK.		1.25" SURFACE COURSE MODT 703.09 1.75" BUNDER COURSE MODT 703.09 HOT MIX ASPHALT (19MM) 1.5" SUB BASE MDDT 703.06 TYPE A HDDT 703.06 TYPE A		56" 10" L
RITTEN PERMISS	A	PAVEMENT SECTIONS N.T.S.	В	TYPICAL BOLLARD
©2024. THIS DRAWING IS THE PROPERTY AND INSTRUMENT OF SITELINES P.A. NO MODIFICATIONS OR CHANGES MAY BE MADE TO THIS DRAWING WITHOUT THE EXF		Imported areaPARED areaImported area<		NOTES: 1. 4'-0" I. D. PP 2. DRAINA 3. PIPE SI 4. CATCH MODEL
-	E	TYPICAL PIPE TRENCH DETAIL N.T.S.	F	CATCH BASIN OR D
OTS/4893 SMCC GREENHOUSE/DWG/4893-COV-DET.DWG, C6 DETAILS, 10/18/2024 9:5/1:35 AM, JOE				
X:\LAND PROJEC	Ι	NOT USED N.T.S.	J	NOT USED N.T.S.



AT THE USER'S RISK	EROSION AND SEDIMENTATION NOTES: 1. CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES OF THE CUMBERLAND COUNTY SOIL CONSERVATION SERVICE AND THE MAINE DEP BEST MANAGEMENT PRACTICES HANDBOOK. GENERAL EROSION AND SEDIMENTATION CONTROL PRACTICES:	HOUSEKEEPING: SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.
NGFUL AND IS	EROSION/SEDIMENT CONTROL DEVICES: THE FOLLOWING EROSION SEDIMENTATION CONTROL DEVICES ARE PROPOSED FOR CONSTRUCTION ON THIS PROJECT. INSTALL THESE DEVICES AS INDICATED ON THE PLANS.	NOTE: ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE DEPARTMENT. FOR OIL SPILLS, CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-452-4664 WHICH IS AVAILABLE 24 HOURS A DAY. FOR MORE INFORMATION, VISIT THE DEPARTMENT'S WEBSITE AT :
VES PA IS WRO	AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE IS STABILIZED. IN AREAS WHERE STORMWATER DISCHARGES THE SEDIMENT BARRIER WILL BE REINFORCED WITH HAY BALES TO HELP MAINTAIN THE INTEGRITY OF THE SEDIMENT BARRIER AND TO PROVIDE ADDITIONAL TREATMENT.	GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFIL TRATION AREA AN "INFIL TRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOULS
N PERMISSION OF SITELI	 RIPRAP: PROVIDE RIPRAP IN AREAS WHERE CULVERTS DISCHARGE OR AS SHOWN ON THE PLANS. LOAM, SEED, & MULCH: ALL DISTURBED AREAS, WHICH ARE NOT OTHERWISE TREATED, SHALL RECEIVE PERMANENT SEEDING AND MULCH TO STABILIZE THE DISTURBED AREAS. THE DISTURBED AREAS WILL BE REVEGETATED WITHIN 5 DAYS OF FINAL GRADING. SEEDING REQUIREMENTS ARE PROVIDED AT THE END OF THIS SPECIFICATION. STRAW AND HAY MULCH: LISED TO COVER DENUDED AREAS LINTU PERMANENT SEED OR EROSION CONTROL MEASURES 	TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOLL, DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.
ess written	ARE IN PLACE. MULCH BY ITSELF CAN BE USED ON SLOPES LESS THAN 15% IN SUMMER AND 8% IN WINTER. JUTE MESH IS TO BE USED OVER MULCH ONLY.	NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY 38 M.R.S.A. §465-C(1).
HOUT THE EXPR	5. IN LIEU OF MULCH, USE EROSION CONTROL BLANKET (EQUAL TO NORTH AMERICAN GREEN SC150) TO STABILIZE AREAS OF CONCENTRATED FLOW AND DRAINAGE WAYS. TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES: DRAWNER THE FOLLOWING TEMPORARY EROSION (SEDIMENTATION CONTROL MEASURES:	FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHALL BE INSTALLED AT THE END OF THE EXIST PAVED ACCESS TO THE SITE TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING
IS DRAWING WIT	DEVELOPMENT: 1. SEDIMENT BARRIER ALONG THE DOWNGRADIENT SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS. THE SEDIMENT BARRIER WILL REMAIN IN PLACE UNTIL THE SITE IS 85% REVEGETATED.	OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.
r use of th	 2. HAY BALES PLACED AT KEY LOCATIONS TO SUPPLEMENT THE SEDIMENT BARRIER. 3. PROTECT TEMPORARY STOCKPILES OF STUMPS, GRUBBINGS, OR COMMON EXCAVATION AS FOLLOWS: 	DEBRIS AND OTHER MATERIALS. MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
MODIFICATION, CHANGE O	 A. SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1. B. AVOID PLACING TEMPORARY STOCKPILES IN AREAS WITH SLOPES OVER 10 PERCENT, OR NEAR DRAINAGE SWALES. SEE ITEM 3 IN CONSTRUCTION PHASE NOTES BELOW. C. STABILIZE STOCKPILES WITHIN 7 DAYS BY TEMPORARILY SEEDING WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH. D. SURROUND STOCKPILE SOIL WITH SEDIMENT BARRIER AT BASE OF PILE. 	EXCAVATION DE-WATERING. EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. NO EXCAVATION DEWATERING IS ANTICIPATED FOR THIS PROJECT. SHOULD IT BE NECESSARY, THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. A DEWATERING DISCHARGE PLAN SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.
OF SITELINES PA. ANY	4. ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE BUILDING PAD, OR PARKING AND DRIVEWAY SUBBASE AREA SHALL RECEIVE MULCH WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL OR WITHIN 7 DAYS AFTER COMPLETING THE ROUGH GRADING OPERATIONS. IN THE EVENT THE CONTRACTOR COMPLETES FINAL GRADING AND INSTALLATION OF LOAM AND SOD WITHIN THE TIME PERIODS PRESENTED ABOVE, INSTALLATION OF MULCH AND NETTING, WHERE APPLICABLE, IS NOT REQUIRED.	AUTHORIZED NON-STORMWATER DISCHARGES. IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES ARE NECESSARY, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
PERMISSION	5. EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 10 ACRES OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.	 (a) DISCHARGES FROM FIREFIGHTING ACTIVITY; (b) FIRE HYDRANT FLUSHINGS; (c) VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE,
RESS WRITTEN	MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND APRIL 15, ALL DENUDED AREAS ARE TO BE COVERED WITH HAT GRADING AND MULCHING SHALL BE REDUCED TO A 15 DAY MAXIMUM.	UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED); (d) DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX (C)(3); (e) ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS:
IOUT THE EXP	 4. WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY WETLAND. IF 	 (f) PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED; (g) UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
TO THIS DRAWING WITH	THROUGH THE DISTURBED AREAS TOWARD THE WETLAND, PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS. 5. AREAS WITHIN 75 FT OF A WETLAND WILL BE STABILIZED WITHIN 48 HOURS OF INITIAL DISTURBANCE OF THE SOIL OR	 (h) UNCONTAMINATED GROUNDWATER OR SPRING WATER; (i) FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED; (j) UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX C(5)); (k) POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND (l) LANDSCAPE IRRIGATION.
MAY BE MADE	PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. 9. ALL AREAS WITHIN 75 FEET OF A WETLAND MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS DURING WINTER CONSTRUCTION (NOVEMBER 1 THROUGH APRIL 15).	UNAUTHORIZED NON-STORMWATER DISCHARGES. THE MDEP APPROVAL UNDER CHAPTER 500 DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH THE AUTHORIZED NON-STORMWATER DISCHARGES INDICATED ABOVE. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZED
IODIFICATIONS OR CHANGES	10. TEMPORARY SEDIMENT BASINS MAY BE INSTALLED DOWNGRADIENT OF THE DISTURBED AREAS. THESE BASINS MUST BE DESIGNED TO PROVIDE STORAGE FOR EITHER THE CALCULATED RUNOFF FROM A 2-YEAR, 24-HOUR STORM OR PROVIDE FOR 3,600 CUBIC FEET OF CAPACITY PER ACRE DRAINING TO THE BASIN. OUTLET STRUCTURES MUST DISCHARGE WATER FROM THE SURFACE OF THE BASIN WHENEVER POSSIBLE. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES MUST BE USED IF THE DISCHARGING WATERS ARE LIKELY TO CREATE EROSION. ACCUMULATED SEDIMENT MUST BE REMOVED AS NEEDED FROM THE BASIN TO MAINTAIN AT LEAST ½ OF THE DESIGN CAPACITY OF THE BASIN.	 (a) WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; (b) FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; (c) SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND (d) TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.
OF SITELINES PA. NO N	PERMANENT EROSION CONTROL MEASURES: THE FOLLOWING PERMANENT CONTROL MEASURES ARE REQUIRED BY THIS EROSION/SEDIMENTATION CONTROL PLAN: 1. ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.), WILL BE LOAMED, LIMED, FERTILIZED AND SEEDED. NATIVE TOPSOIL SHALL BE STOCKPILED AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.	 CONSTRUCTION PHASE: THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION DURING CONSTRUCTION OF THIS PROJECT. 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND MAINTAIN UNTIL SITE IS PAVED. 2. ONLY THOSE AREAS NECESSARY FOR CONSTRUCTION WILL BE DISTURBED.
INSTRUMENT	2. SLOPES GREATER THAN 2:1 WILL RECEIVE RIPRAP. (NONE ANTICIPATED) POST-CONSTRUCTION REVEGETATION:	3. PRIOR TO THE START OF CONSTRUCTION, SEDIMENT BARRIER WILL BE INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR, AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT TRAVELLED WAY TO PROTECT IT FROM CONSTRUCTION-RELATED EROSION.
E PROPERTY ANI	THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION AS SOON AS AN AREA IS READY TO UNDERGO FINAL GRADING. 1. A MINIMUM OF 6" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL ARREADANCE OR STONE WILL BE DIACED ON SLOPES TO STARILIZE SUPEACES	 4. CLEAR AND GRUB WORK SITE AS NEEDED TO EXECUTE PLANS USING CAUTION NOT TO OVER EXPOSE THE SITE. 5. STORMWATER MANAGEMENT SYSTEM WILL BE INSTALLED PRIOR TO CONSTRUCTION OF SITE ELEMENTS THAT DISCHARGE TO THESE SYSTEMS. CATCH BASIN INLET PROTECTION SHALL BE INSTALLED IN ALL NEW AND EXISTING CATCH BASINS THAT WILL
DRAWING IS THE	2. IF FINAL GRADING IS REACHED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING WILL BE DONE AS SPECIFIED BELOW. PRIOR TO SEEDING, LIMESTONE SHALL BE APPLIED AT A RATE OF 138 LBS/1000 SQ. FT. AND 10:20:20 FERTULIZER AT A RATE OF 18.4 LBS/1000 SO FT WILL BE APPLIED. BROADCAST SEEDING AT THE FOLLOWING RATES:	RECEIVE RUNOFF FROM THE PROJECT. NO STORMWATER SHOULD BE DIRECTED TO THE WET POND UNTIL THE SITE IS COMPLETELY STABILIZED. 6. DISTURBED AREAS WILL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF THE INITIAL DISTURBANCES OF SOILS DISTURBED AREAS WILL BE STABILIZED BEFORE STORMS LOAM WILL
© 2024. THIS I	LAWNS SHALL BE: ALLEN, STERLING & LATHROP 'TUFFTURF', 70% DIAMOND TALL FESCUE, 20% PLEASURE OLUS PERENNIAL RYEGRASS, 10% BARON KENTUCKY BLUEGRASS. SEEDING RATE SHALL BE 7–LBS./1,000 SQ. FT.	BE SAVED FOR LATER USE WHERE POSSIBLE. EXCESS SOIL MATERIALS WILL BE USED AS FILL OR REMOVED FROM SITE TO AN APPROVED LOCATION. 7. AT A MINIMUM, THE EROSION CONTROL MEASURES SHALL BE REVIEWED AND REPAIRED ONCE A WEEK OR IMMEDIATELY
	 AN AREA SHALL BE MULCHED IMMEDIATELY AFTER IS HAS BEEN SEEDED. MULCHING SHALL CONSIST OF HAY MULCH, HYDRO-MULCH, JUTE NET OVER MULCH, PRE-MANUFACTURED EROSION MATS OR ANY SUITABLE SUBSTITUTE DEEMED ACCEPTABLE BY THE DESIGNER. A. HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. HAY MULCH SHALL BE SECURED BY EITHER: 	FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6 INCHES AND BE DISCARDED ON THE SITE. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS.
	(NOTE: SOIL SHALL NOT BE VISIBLE) I. BEING DRIVEN OVER BY TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS. II. BLANKETED BY TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING, OR WITH SPRAY, ON GRADES GREATER THAN 5%. III. SEE NOTE 6. GENERAL NOTES, AND NOTE 8. WINTER CONSTRUCTION.	 LOAM, LIME, FERTILIZE, SEED, AND MULCH LANDSCAPED AND OTHER DISTURBED AREAS. ONCE THE SITE IS STABILIZED AND A 90% CATCH OF VEGETATION HAS BEEN OBTAINED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
	 B. HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF EITHER ASPHALT, WOOD FIBER OR PAPER FIBER AND WATER SPRAYED OVER A SEEDED AREA. HYDRO-MULCH SHALL NOT BE USED BETWEEN 9/15 AND 4/15. CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR SEEDING BETWEEN SEPTEMBER 15 AND APRIL 15 	10. TOUCH UP LOAM AND SEED. NOTE: ALL DENUDED AREAS NOT SUBJECT TO FINAL PAVING, RIPRAP OR GRAVEL SHALL BE REVEGETATED.
	SHOULD SEEDING BE NECESSARY BETWEEN SEPTEMBER 15 AND APRIL 15 THE FOLLOWING PROCEDURE SHALL BE FOLLOWED. ALSO REFER TO NOTE 9 OF WINTER CONSTRUCTION. A. ONLY UNFROZEN LOAM SHALL BE USED.	EROSION CONTROL DURING WINTER CONSTRUCTION: 1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
	 B. LOAMING, SEEDING AND MULCHING WILL NOT BE DONE OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED. C. WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/1000 SQ.FT) SHALL BE ADDED TO THE DEEMIOUSLY NOTED APEAS. 	 WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN T ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. 3. EXPOSED AREA SHALL BE LIMITED TO THOSE AREAS TO BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AT
	 D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS/1000 SQ. FT.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE. E. FERTILIZING, SEEDING AND MULCHING SHALL BE APPLIED TO LOAM THE DAY THE LOAM IS SPREAD BY MACHINERY. 	THE END OF EACH WORK WEEK NO AREAS MAY BE LEFT UNSTABILIZED OVER THE WEEKEND. 4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION
7:35 AM, JOE	 F. ALTERNATIVE HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE. 5. FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 15 DAYS UNTIL 90% COVER HAS BEEN ESTABLISHED. 	CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE. 5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1000 S.F. (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND
0/18/2024 9:57	RESEEDING WILL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE ENGINEER THAT THE EXISTING CATCH IS INADEQUATE.	ANCHORED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH. NOTE: AN AREA IS ALSO CONSIDERED STABLE IF SODDED, COVERED WITH GRAVEL (PARKING LOTS) OR STRUCTURAL SAND. 6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF
3, C7 EROSION, 1	THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO. MAINTENANCE MEASURES WILL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:	ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE
\4893-COV-DET.DWL	1. HAY BALE BARRIERS, SEDIMENT BARRIER, AND STONE CHECK DAMS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING. SHOULD THE HAY BALE BARRIERS PROVE TO BE INEFFECTIVE, THE CONTRACTOR SHALL INSTALL SEDIMENT BARRIER BEHIND THE HAY BALES.	SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW, DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY, SEDIMENT BARRIER OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS SHOWN ON THE DESIGN DRAWINGS. NOTE: DORMANT SEEDING SHOULD NOT BE ATTEMPTED UNLESS
NHOUSE/DWG	2. VISUALLY INSPECT RIPRAP ONCE A WEEK OR AFTER EACH SIGNIFICANT RAINFALL AND REPAIR AS NEEDED. REMOVE SEDIMENT TRAPPED BEHIND THESE DEVICES ONCE IT ATTAINS A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE DAM OR RISER. DISTRIBUTE REMOVED SEDIMENT OFF-SITE OR TO AN AREA UNDERGOING FINAL GRADING.	 SUL TEMPERATURE REMAINS BELOW SU DEGREES AND DAY TIME TEMPERATURES REMAIN IN THE 30'S. 7. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS, SLOPES GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. VEGETATED DRAINAGE SWALES SHALL BE LINED WITH STRAW-COCONULT EROSION CONTROL OF ANGET (NORTH ANGET (NORTH ANGET)).
33 SMCC GREE	3. REVEGETATION OF DISTURBED AREAS WITHIN 25 OF DRAINAGE-COURSE/STREAM WILL BE SEEDED WITH THE "MEADOW AREA MIX" AND INSPECTED ON A WEEKLY BASIS OR AFTER EACH SIGNIFICANT RAINFALL AND RESEEDED AS NEEDED. EXPOSED AREAS WILL BE RESEEDED AS NEEDED UNTIL THE AREA HAS OBTAINED 100% GROWTH RATE. PROVIDE PERMANENT RIPRAP FOR SLOPES IN EXCESS OF 3:1 AND WITHIN 25' OF DRAINAGE COURSE.	8. BETWEEN THE DATES OF OCTOBER 15 TO NOVEMBER 1, WINTER RYE IS RECOMMENDED FOR STABILIZATION. AFTER NOVEMBER 1, WINTER RYE IS NOT EFFECTIVE. AROUND NOVEMBER 15 OR LATER, ONCE TEMPERATURES OF THE AIR AND SOIL PERMIT, DORMANT SEEDING IS EFFECTIVE.
ROJECTS/485		9. IN THE EVENT OF SNOWFALL (FRESH OR CUMULATIVE) GREATER THAN 1 INCH DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM THE AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

TION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION. JTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE DURING WINTER CONSTRUCTION, THE EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH RAINFALL, SNOWSTORM, OR STABLISHED BY 38 M.R.S.A. §465-C(1).

NS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT SWALES AND STRUCTURES PRIOR TO TURNING PROJECT OVER. NSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHALL BE INSTALLED CCESS TO THE SITE TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM NTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS QUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.

IG WINTER CONSTRUCTION: OD: NOVEMBER 1 THROUGH APRIL 15.

SITE INSPECTION AND MAINTENANCE:

WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING EACH RAINFALL, SNOWSTORM, OR THAWING, SHALL BE CONDUCTED BY THE GENERAL CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT (90% GRASS CATCH). RAINFALL OF 0.5 INCHES OR MORE IN 24 CONSECUTIVE HOURS SHALL TRIGGER AN INSPECTION. SNOWFALL OF 2 INCHES OR MORE SHALL TRIGGER AN INSPECTION. CORRECTIVE ACTION SHALL BE STARTED BY THE END OF THE NEXT WORK DAY AND COMPLETED WITHIN SEVEN (7) DAYS OR BEFORE THE NEXT STORM EVENT AS NOTED ABOVE. INSPECTIONS SHALL BE PERFORMED BY SOMEONE WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT ISSUED FOR THE PROJECT. THE SCOPE OF CONSTRUCTION INSPECTIONS INCLUDES DISTURBED AREAS AND IMPERVIOUS AREAS, MATERIAL STORAGE AREAS, AND VEHICLE ACCESS POINTS IN ADDITION TO ESC MEASURES. NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETERIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES. UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED, AND REPAIRED BY THE GENERAL CONTRACTOR AS REQUIRED. DISPOSAL OF ALL TEMPORARY EROSION AND CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. RECORDS OF INSPECTIONS SHALL BE KEPT FOR THREE (3) YEARS. IT IS RECOMMENDED THAT THE OWNER HIRE THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE COMPLIANCE INSPECTIONS (DURING ACTIVE CONSTRUCTION) RELATIVE TO IMPLEMENTATION OF THE STORMWATER AND EROSION CONTROL PLANS. SUCH

INSPECTIONS SHOULD BE LIMITED TO ONCE A WEEK OR AS NECESSARY AND BE REPORTABLE TO THE OWNER, MUNICIPALITY, AND

THAWING, AND A MINIMUM OF ONCE PER WEEK.

NNS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION 2. SHORT-TERM SEDIMENTATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL

LONG-TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES AFTER

	1. 09-04-24 SUBMITTED TO	TOWN FOR MINOR STAFF REVIEW	JJM	
PROGRESS PRINT THIS PLAN IS ISSUED FOR REVIEW AND INFORMATION PURPOSES ONLY. THIS	TITLE: EROSION (A	CONTROL DETA ND NOTES	AILS	
PLAN IS SUBJECT TO CHANGE AND IS NOT FOR PRICING OR CONSTRUCTION. PRICING BASED ON THIS PLAN IS NOT BINDING	PROJECT: SMCC GREENHOUSE BUILDING 29 SEWALL STREET, BRUNSWICK, ME 04011			
CONTRACTOR AND OWNER. ISSUED FOR: BIDDING	owner: SOUTHERN MA 29 SEWALL S	NNE COMMUNITY COL T, BRUNSWICK, ME O	LEGE 4011	
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12828 4	FIELD WK: CH	SCALE: NTS	SHEET:	
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10-18-24	DATE: 03-14-24	FILE: 4893-COV-DET		

2. 10–18–24 ISSUED FOR BIDDING

JJM



		2. 10-18-24 ISSUED	FOR BIDDING	JJM
		1. 09-04-24 SUBMIT	TED TO TOWN FOR MINOR STAFF REVIE	EW JJM
		TITLE:	LIGHTING PLAN	
		PROJECT: SMC 29 SEWALL	C GREENHOUSE BUILDING STREET, BRUNSWICK, M	G E 04011
		PREPARED FOR: SOUTHER 29 SEWA	N MAINE COMMUNITY CO ALL ST, BRUNSWICK, ME	LLEGE 04011
GRAPHIC SCALE 0 15 30 60	JOSEPH		SITEL 119 PURINTON R BRUNSWICK, M 207.725. RS • PLANNERS • LAND S	OAD, SUITE A AINE 04011 1200 URVEYORS
(IN FEET $)$	アレビス 12828 広:	FIELD WK: CH	SCALE: 1"=30'	SHEET:
1 men = 50 ft.		DRN BY: JJM	JOB #: 4893	T 1
ISSUED FOR:	NONAL KNY W	CH'D BY: JJM	MAP/LOT: 40/151	
BIDÐING	// 10-18-24	DATE: 03-14-24	FILE: 4893-SITE	

Schedule									
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
7	А	4	LMC-30LU-3K-4	LAREDO LMC, 30 LED, 3000K, TYPE 4, 700mA	30- NICHIA 3K LEDS	1	4534.53	0.9	70
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BUILDING

DESIGN NOTES

- I. THE SMCC HORTICULTURE GREENHOUSE IS DESIGNED TO COMPLY WITH THE 2015 EDITION OF "THE INTERNATIONAL BUILDING CODE" AND THE 2010 EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", ASCE 7-10.
- 2. FLOOR LIVE LOAD 150 PSF
- 3. ROOF FRAMING IS DESIGNED FOR LOADS AS FOLLOWS:
- A. GROUND SNOW LOAD Pg = 50 PSF.
- B. FLAT ROOF SNOW LOAD PF = 35 PSF
- C. SNOW EXPOSURE FACTOR Ce = 1.0.
- D. SNOW IMPORTANCE FACTOR | = 1.0.
- E. THERMAL FACTOR Ct = 1.0
- 4. DESIGN FOR WIND IS IN ACCORDANCE WITH LOADING AS FOLLOWS:
- A. ULTIMATE DESIGN WIND SPEED Vult = 116 MPH.
- B. NOMINAL DESIGN WIND SPEED Vasd = 90 MPH
- C. RISK CATEGORY II
- D. WIND EXPOSURE EXPOSURE B. E. INTERNAL PRESSURE COEFFICIENT GCpi = 0.18.
- 5. SEISMIC DESIGN
- A. SEISMIC IMPORTANCE FACTOR | = 1.0
- B. RISK CATEGORY = II.
- C. MAPPED SPECTRAL RESPONSE ACCELERATION SS = .229 D. MAPPED SPECTRAL RESPONSE ACCELERATION SI = .077
- E. SITE CLASS = E.
- F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER Sds = 0.381
- G. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER SdI = 0.18
- H. SEISMIC DESIGN CATEGORY = C.
- I. BASIC SEISMIC FORCE RESISTING SYSTEM = STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
- J. DESIGN BASE SHEAR: V = 14.15 KIPS.
- K. SEISMIC RESPONSE COEFFICIENT CS = 0.127
- L. RESPONSE MODIFICATION FACTOR R = 3.0.
- M. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE ANALYSIS.

FOUNDATION EARTHWORK NOTES

- I. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THE HORTICULTURE GREENHOUSE AT SMCC MIDCOAST CAMPUS, BRUNSWICK, MAINE, PREPARED BY SUMMIT GEOENGINEERING SERVICES ON JULY 3, 2024. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND COMPLY WITH THE RECOMMENDATIONS THEREIN.
- 2. THESE NOTES ARE PROVIDED TO SPECIFY EARTHWORK REQUIREMENTS INCIDENTAL TO BUILDING CONSTRUCTION. REFER TO CIVIL/SITE DOCUMENTS FOR REQUIREMENTS FOR SITEWORK FEATURES OUTSIDE OF THE BUILDING.
- 3. PREPARATIONS FOR THE SITE SHALL INCLUDE PRELOADING IN ACCORDANCE WITH SPECIFICATIONS BY SUMMIT GEOENVIRONMENTAL SERVICES. IMPLEMENTATION OF THE NOTES SPECIFIED BELOW SHALL FOLLOW SUCCESSFUL COMPLETION OF PRELOADING WITH APPROVAL BY SUMMIT GEOENVIRONMENTAL SERVICES TO PROCEED WITH FOUNDATION CONSTRUCTION.
- 4. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3000
- 5. EXCAVATE PRELOAD FILL TO SPECIFIED FOOTING GRADES. FINISH EXCAVATION WITH A SMOOTH BUCKET TO AVOID DISTURBING IN-PLACE MATERIAL. COMPLY WITH OSHA REQUIREMENTS FOR SIDE SLOPES PER 29CRF-1926.650, 1926.651, AND 1926.652 IN SUBPART P. AT PERIMETER FOOTINGS, OVEREXCAVATE 12 INCHES TO PERMIT INSTALLATION OF A 12" LAYER OF CRUSHED STONE BENEATH FOOTINGS. IN THE EVENT OF ACCIDENTAL OVEREXCAVATION OR IF FOOTING GRADES BECOME DISTURBED, REMOVE LOOSE MATERIAL AND PLACE STRUCTURAL FILL TO FOOTING GRADES. COMPACT STRUCTURAL FILL TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM DI557. A. FOOTING SUBGRADES SHALL BE INSPECTED BY SUMMIT GEOENVIRONMENTAL SERVICES
- PRIOR TO CONSTRUCTING FORMS. B. EXERCISE CARE TO AVOID DISTURBING FOOTING SUBGRADES DURING FORM CONSTRUCTION AND CONCRETE PLACEMENT. REMOVE ANY DISTURBED BEARING MATERIAL AND REPLACE WITH COMPACTED STRUCTURAL FILL.
- C. EXCAVATION FOR FOOTINGS SHALL EXTEND LATERALLY A MINIMUM OF 24 INCHES FROM THE FACES OF THE FOOTINGS.
- 6. FOOTINGS AT EXTERIOR WALLS SHALL HAVE A MINIMUM SOIL COVER FOR FROST PROTECTION OF 4'-O".
- 7. AT PERIMETER FOOTINGS, INSTALL A FILTER FABRIC MIRAFI FW404 OR EQUAL, AND 12 INCHES OF CRUSHED STONE SURROUNDED BY THE FILTER FABRIC. PERIMETER FOOTINGS SHALL BEAR DIRECTLY ON 12 INCHES OF CRUSHED STONE, WRAPPED WITH FILTER FABRIC.
- 8. AT INTERIOR FOOTINGS, RECOMPACT EXISTING STRUCTURAL FILL PLACED FOR THE PRELOAD. FOOTINGS SHALL BEAR DIRECTLY ON RECOMPACTED STRUCTURAL FILL.
- 9. SOILS ARE FROST SUSCEPTIBLE. PROTECT SUBGRADES FROM FREEZING. THE USE OF HEAT BLANKETS OR SIMILAR PROTECTION METHODS MAY BE REQUIRED. IF SOILS BECOME FROZEN, REMOVE TO DEPTH REQUIRED TO ATTAIN UNFROZEN MATERIAL.
- IO. DEWATER TO 12" BELOW FOOTING SUBGRADES. DO NOT PLACE CONCRETE OR BACKFILL OVER STANDING WATER OR FROZEN SOILS. REMOVE ANY SOFT OR YIELDING SOILS. A. THE CONTRACTOR SHALL MAINTAIN EXPOSED SUBGRADES PROPERLY DRAINED AND FREE OF PONDED WATER.
- B. MINIMIZE MACHINE AND FOOT TRAFFIC OVER SUBGRADES TO AVOID DISTURBANCE. II. PLACEMENT OF FILL MATERIALS SHALL OCCUR IN DRY CONDITIONS WITH TEMPERATURES ABOVE FREEZING. PROTECT THE EXCAVATION FROM WATER ACCUMULATION, FREEZING, AND EXCESSIVE EQUIPMENT AND PERSONNEL TRAFFIC. BACKFILL AND CONCRETE PLACEMENTS SHALL PROCEED WITHOUT DELAYS.
- A. PROTECT SUBGRADES FROM FREEZING. PROTECTION MEASURES SHALL INCLUDE THE USE OF HEAT BLANKETS OR OVERFILLING TO ALLOW REMOVAL OF THE TOP 6" DIRECTLY BEFORE FOOTING OR SLAB PLACEMENT.
- B. DURING FREEZING WEATHER, BACKFILL FOOTINGS IMMEDIATELY AFTER FORM REMOVAL. INSTALL TEMPORARY PROTECTION OF FOOTING BEARINGS AS REQUIRED TO PREVENT FREEZING WHILE FORMS ARE IN PLACE.
- 12. PROVIDE A CONTINUOUS FOUNDATION DRAIN ADJACENT TO FOOTINGS. FOUNDATION DRAIN SHALL CONSIST OF 4" DIAMETER, SDR 35, PERFORATED PIPE WITH A MINIMUM OF 6" OF CRUSHED STONE AND WRAPPED WITH A FILTER FABRIC, MIRAFI FW404 OR EQUAL. LOCATE AT THE BOTTOM OF FOOTING UNLESS OTHERWISE INDICATED. SLOPE AT 1/164 PER FOOT TO OUTLET. INSTALL PERFORATED PIPE WITH PERFORATIONS DIRECTED DOWN. USE SOLID (UNPERFORATED) PIPE BETWEEN THE BUILDING AND OUTLET.

SOUTH 199 prospect street, suite A portland, maine 04101 NORTH 22 balsam drive Millinocket maine 04462 PH: 207.347.5252 & 207.749.9306

- WITH ASTM DI557.
- THE FOLLOWING GRADATION:

SEIVE SIZE	
1/4 INCH	
NO. 200	

- (2020).

SEIVE SIZE	PERCENT PASSING BY WEIGHT
1/4 INCH	25 TO 100
NO. 40	0 TO 50
NO. 200	о то т

B. FOUNDATION BACKFILL SHALL COMPLY WITH MDOT SPECIFICATION 703.06, TYPE E (2020).

SEIVE SIZE	PERCENT PASSING BY WEIGHT
I INCH	100
3⁄4 INCH	90 TO 100
V_2 INCH	20 TO 55
3∕8" INCH	0 TO 15
NO. 4	0 то 5

- A. TAMP CRUSHED STONE TO LOCK THE STONE STRUCTURE. (20|4).

<u>CONCRETE NOTES</u>

- ACI 117-10.
- A. FOUNDATIONS: 4500 PSI
- B. INTERIOR SLABS: 4000 PSI
- F FOR 7 DAYS AFTER PLACEMENT.
- WEATHER CONCRETE PRACTICES.
- A. CONCRETE DEPOSITED ON THE GROUND
- C. CONCRETE NOT EXPOSED TO THE GROUND OR WEATHER
- UNLESS OTHERWISE NOTED.
- PLACEMENT TOLERANCE WITH BASE PLATE DETAILS.
- SET SLAB REINFORCEMENT IN POSITION IS PROHIBITED.
- 13. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".
- FOR A PORTION OF THE CEMENT IN THE MIX, SUBJECT TO THE LIMITATIONS IDENTIFIED

	BELON.			
	(1).	FLY A	SH:	ASTM
	(2).	GROUN 120, 50	ND 6 0%	GRANL MAXIN
3.	AGGREC	SATES:	NO	RMAL

13. BACKFILL BOTH SIDES OF FOUNDATION WALLS WITH FOUNDATION BACKFILL. ALL OTHER FILL MATERIALS PLACED WITHIN THE BUILDING SHALL BE STRUCTURAL FILL. ALL FILL SHALL BE COMPACTED TO WITHIN 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE

14. STRUCTURAL FILL SHALL CONSIST OF WELL-GRADED GRANULAR MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 6". THE PORTION PASSING THE 3" SIEVE SHALL COMPLY WITH

> PERCENT PASSING BY WEIGHT 0-70 0-10

A. PLACE STRUCTURAL FILL IN 6 TO 12 INCH LIFTS, LOOSE MEASUREMENT. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM DI557, B. MATERIAL SHALL COMPLY WITH MDOT SPECIFICATION 703.20, GRAVEL BORROW

15. FOUNDATION BACKFILL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 6". THE PORTION PASSING THE 3" SIEVE SHALL COMPLY WITH THE FOLLOWING GRADATION:

A. PLACE FOUNDATION BACKFILL IN 12 INCH LIFTS (MAXIMUM), LOOSE MEASUREMENT. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM DI557.

16. CRUSHED STONE SHALL MEET THE FOLLOWING GRADATION:

B. MATERIAL SHALL COMPLY WITH MDOT SPECIFICATION 703.13, CRUSHED STONE, ₹ INCH

17. INASMUCH AS POSSIBLE, BACKFILL BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY. 18. UNDER-SLAB MATERIALS - AT INTERIOR FLOOR SLABS, REMOVE EXISTING PRELOAD FILL MATERIALS TO BOTTOM OF SLAB ELEVATIONS. NOTE THAT THE FLOOR IS SLOPED. SUBGRADES SHALL ALSO BE SLOPED TO PROVIDE CONCRETE OF UNIFORM THICKNESS UNLESS OTHERWISE NOTED. GRADE THE SLAB BEARING SURFACE TO A TOLERANCE OF PLUS 3/8 INCH AND MINIMUM I INCH. ANY ADDITIONAL FILL REQUIRED SHALL BE STRUCTURAL FILL. RECOMPACT SLAB SUBGRADE TO ATTAIN 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM DI557. PROTECT SUBGRADE SURFACE FROM DISTURBANCE BETWEEN RECOMPACTION AND CONCRETE SLAB PLACEMENT.

I. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS IN ACI 318-14, ACI 301-05 \$

2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

3. ALL CONCRETE EXPOSED TO FREEZE-THAW CYCLES IN SERVICE SHALL BE AIR ENTRAINED FOR EXPOSURE CLASS F2 PER ACI 318.

4. NO CONCRETE SHALL BE PLACED ON OR IN WATER OR ON FROZEN GROUND.

5. DURING COLD WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 306, COLD WEATHER CONCRETE PRACTICES. MAINTAIN CONCRETE TEMPERATURE ABOVE 50 DEGREES

6. DURING HOT WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 305, HOT

7. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.

8. REINFORCEMENT SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER:

B. CONCRETE EXPOSED TO THE GROUND OR WEATHER

9. ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315).

IO. ALL LAP SPLICES SHALL BE CONSIDERED CLASS B TENSION LAP SPLICES PER ACI 318

II. INSTALL ANCHOR RODS SPECIFIED BY THE GREENHOUSE DESIGNER. COORDINATE

12. REINFORCEMENT SHALL BE LOCATED AT MID-DEPTH OF CONCRETE SLABS UNLESS OTHERWISE NOTED. SUPPORT WELDED WIRE FABRIC ON CHAIRS OR OTHER SUITABLE SUPPORTS AT A MAXIMUM SPACING OF 3 FEET ON CENTER. THE USE OF LIFTING HOOKS TO

14. COORDINATE CONCRETE WORK WITH OTHER TRADES. PROVIDE BOND-OUTS FOR WALL PENETRATIONS AND INFILL AFTER INSTALLATION. STEP DOWN FOOTINGS SUCH THAT PIPING DOES NOT PASS THROUGH FOOTINGS AND DOES NOT UNDERMINE FOOTINGS. STEP

FOOTINGS BACK TO SPECIFIED DEPTHS AT EACH SIDE OF PENETRATION.

15. CONCRETE MIXTURES SHALL BE COMPRISED OF THE FOLLOWING MATERIALS; A. CEMENT: PORTLAND CEMENT, ASTM C150, TYPE I, TYPE II, OR TYPE I/II. ONE OF THE FOLLOWING SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM) MAY BE SUBSTITUTED

> M C 618, CLASS C OR F, 25% MAXIMUM. NULATED BLAST-FURNACE SLAG: ASTM C989, GRADE 100 OR IMUM

WEIGHT, UNIFORMLY GRADED, CONFORMING TO ASTM C33. (1). PROVIDE CLASS 35 COARSE AGGREGATE, COMPLYING WITH SIZE LIMITS IN ACI 301. BLENDED GRADATIONS OF COARSE AGGREGATE SHALL HAVE A BLEND THAT COMPLIES WITH AN AGGREGATE GRADATION SPECIFIED IN ASTM C33.

C. WATER: POTABLE AND COMPLYING WITH ASTM C94.

D. ADMIXTURES: ADMIXTURES CERTIFIED BY MANUFACTURER TO CONTAIN NOT MORE THAN O.I PERCENT WATER-SOLUBLE CHLORIDE IONS BY MASS OF CEMENTITIOUS MATERIAL AND TO BE COMPATIBLE WITH OTHER ADMIXTURES AND CEMENTITIOUS MATERIALS. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.

(I). AIR-ENTRAINING ADMIXTURE: ASTM C260.

(2). WATER REDUCING ADMIXTURE (OPTIONAL): ASTM C494, TYPE A.

(3). HIGH-RANGE WATER-REDUCING ADMIXTURE (OPTIONAL) ASTM C494, TYPE F.

16. MEASURE, BATCH, MIX, AND DELIVER CONCRETE ACCORDING TO ASTM C94 AND ASTM CIII6, AND FURNISH BATCH TICKET INFORMATION. CLEARLY INDICATE ON THE BATCH TICKET THE TIME THE CEMENT IS ADDED TO THE MIX.

A. WHEN AIR TEMPERATURE IS BETWEEN 85 AND 90 DEG F (30 AND 32 DEG C), REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90 DEG F (32 DEG C), REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES. B. MIXING TIME WILL BE MEASURED FROM THE TIME THE CEMENT IS ADDED TO THE MIX.

17. CONSTRUCT CONTROL AND CONSTRUCTION JOINTS IN WALLS AND SLABS AS INDICATED. CONTROL AND CONSTRUCTION JOINTS MAY BE USED INTERCHANGEABLY. WHERE SLABS VARY IN THICKNESS, ADJUST THE DEPTH OF SAW-CUT CONTROL JOINTS TO MAINTAIN THE JOINT DEPTH AT A MINIMUM OF 14 OF THE MEMBER THICKNESS. WHERE SLAB JOINTS ARE CREATED BY SAW-CUTS, JOINTS SHALL BE CUT WITHIN 12 HOURS OF CONCRETE PLACEMENT.

18. CONSOLIDATE CONCRETE WITH A MECHANICAL VIBRATOR USING EQUIPMENT AND PROCEDURES SPECIFIED IN ACI 309R. DO NOT UTILIZE VIBRATORS TO TRANSPORT CONCRETE WITHIN FORMS.

19. ALL INTERIOR FLOORS SHALL RECEIVE A TROWEL FINISH. PROVIDE FLOOR SURFACES INDICATED TO BE LEVEL ON PLAN WITHIN THE FOLLOWING TOLERANCES PER ASTM E1155: A. FLOOR FLATNESS (FF): SPECIFIED OVERALL VALUE = 35. MINIMUM LOCAL VALUE = 24. B. FLOOR LEVELNESS (FL): SPECIFIED OVERALL VALUE = 25. MINIMUM LOCAL VALUE = 18.

20. AT SLOPED FLOOR SURFACES, SLAB SURFACE SHALL BE SLOPED UNIFORMLY BETWEEN DEFINED LOW AND HIGH POINTS WITH THE MAXIMUM DEVIATION OF 1/4 INCH IN 10 FEET.

21. MAINTAIN CONCRETE CONTINUOUSLY MOIST FOR 7 DAYS AFTER PLACEMENT. ACCEPTABLE CURING METHODS INCLUDE:

A. LEAVING FORMS ON FORMED SURFACES. B. COATING SURFACES WITH AN APPROVED CURING COMPOUND. DO NOT USE CURING COMPOUND WHERE ITS PRESENCE WILL INTERFERE WITH SUCCESSIVE SURFACE TREATMENTS.

C. COVERING WITH MOISTURE-RETAINING COVER COMPLYING WITH ASTM CI71.

D. COVERING WITH ABSORPTIVE COVER, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ PER SQ YD, COMPLYING WITH AASHTO MI82, CLASS 2. MAINTAIN ABSORPTIVE COVER WET THROUGHOUT CURING PERIOD.

E. OTHER CURING METHODS MAY BE ACCEPTABLE SUBJECT TO APPROVAL

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4' CHECK GRAPHIC SCALE BEFORE USING

ADAR202303 - OCTOBER 2024 💛

SOUTH 199 prospect street, suite A portland, maine 04101 NORTH 22 balsam drive Millinocket, maine 04462

SHEET NOTES:

- I. SEE SHEET SO.I FOR GENERAL STRUCTURAL NOTES.
- 2. TOP OF FOOTING ELEVATION = 66'-0" EXCEPT AS OTHERWISE NOTED.
- 3. C.J. DESIGNATES SLAB CONTROL JOINT OR CONSTRUCTION JOINT CONTRACTOR'S OPTION; CONSTR. JT. DESIGNATES REQUIRED CONSTRUCTION JOINT.
- 4. COORDINATEUTILITY PIPE ENTRANCES W/ PLUMBING \$ CIVIL DRAWINGS. STEP FOOTINGS AS REQUIRED FOR PIPING TO PASS THROUGH FOUNDATION WALLS W/ A MINIMUM CLEARANCE OF 6" ABOVE THE TOP OF THE FOOTING. SEE DETAIL 10/55.1.
- 5. REFER TO GREENHOUSE DRAWINGS FOR ANCHOR ROD SIZES AND LAYOUT. INSTALL IN ACCORDANCE WITH THE BUILDING DESIGNERS SPECIFICATIONS.

LEGEND:

F	STEP IN TOP OF FOOTING
 N 	STEP IN TOP OF FOUNDATION WALL
T/SLAB	TOP OF SLAB ELEVATION
T/WALL	TOP OF WALL ELEVATION
T/FTG	TOP OF FOOTING ELEVATION
FD	FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR REQUIRED DETAILS

FOUNDATION PLAN

GENERAL NOTES

- 1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- 2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- 3. MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF. 4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE
- NOTED ALL WIRING SHALL BE 2 #12 AWG AND 1 #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A/1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- 5. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- 6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES. 7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY
- THERMOSTATS (PROVIDED BY ATC CONTRACTOR). 8. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR
- NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFGR RECOMMENDATION.
- 9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- 10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION
- 11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- 12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND
- BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- 13. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- 14. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- 15. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS. 16. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS
- BEFORE ENERGIZING EQUIPMENT.
- 17. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- 18. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 ARTICLE 406.9.
- 19. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- 20. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
- 21. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24 22. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2.
- 23. PROVIDE AIR VAPRO BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
- 24. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

NOTES:

E0.0

- 1. DEVICES SHALL BE MOUNTED AT ELEVATIONS INDICATED ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS, IN SYMBOLS SCHEDULE OR DIRECTED BY ARCHITECT
- 2. WIRING DEVICES (DATA NETWORK JACKS, RECEPTACLES, ETC.) SHOWN SIDE BY SIDE
- ELECTRICAL PLANS SHALL BE MOUNTED IN A SINGLE BOX AND FACEPLATE.
- LIGHTING SWITCHES AND DIMMERS SHOWN SIDE BY SIDE ON ELECTRICAL PLANS SHALL BE MOUNTED IN A SINGLE BOX AND FACEPLATE.
- LOCATIONS OF ELECTRICAL DEVICES AND LIGHTING SWITCHES/DIMMERS ARE SHOWN SCHEMATICALLY ON ELECTRICAL PLANS. ALIGN DEVICES SHOWN ADJACENT TO ONE

DEVICE ALIGNMENT DETAIL

- ANOTHER ON ELECTRICAL PLANS VERTICALLY AS SHOWN ABOVE. 5. MOUNTING HEIGHTS INDICATED ARE TO CENTERLINE OF DEVICE.

ABBREVIATIONS

А	AMP	LP	LIGHTIN
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTG	LIGHTIN
ADA	AMERICANS WITH DISABILITIES ACT	LSIG	LONG
AF	AMP FRAME		BREAK
AFCI	ARC FAULT CIRCUIT INTERRUPTER	МСС	MOTOR
AFF	ABOVE FINISHED FLOOR	MCCB	MOLDF
AFG	ABOVE FINISHED GRADE	MCB	MAIN (
AIC	AMPERES INTERRUPTING CAPACITY	MDP	ΜΔΙΝ Γ
Al		MH	ΜΔΝΗΟ
AT	AMP TRIP	MLO	ΜΔΙΝ Ι
ATC	AUTOMATIC TEMPERATURE CONTROL	MTS	MANILIA
ATS	AUTOMATIC TRANSFER SWITCH	MITS	
AWG	AMERICAN WIRE GALIGE	NC	NURMA
BLDG	BUILDING	NEC	NATION
C	CONDUIT	NFPA	NATION
CB		NL	NIGHT
CL		NO	NORMA
CKT		NO.	NUMBE
С C		OL	OVERL
L CMD		Р	POLE
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)	PA	PUBLIC
CMU	CONCRETE MASONRY UNIT	PB	PUSH
CT	CURRENT TRANSFORMER	PF	POWER
CONC	CONCRETE	PH	PHASE
CS	CARBON STEEL	PNL	PANEL
CU	COPPER	TP1-2	TELE/F
CUH	CABINET UNIT HEATER	PSNH	PUBLIC
DL	DAMP LOCATION	PT	POTEN
EC	ELECTRICAL CONTRACTOR	PVC	POLYVI
EF	EXHAUST FAN	RL	ELECTF
ER	EXISTING REMAINS IN PLACE	RM	ELECTF
ERL	EXISTING RELOCATE	RSC	RIGID
ERM	EXISTING REMOVE	RTU	ROOF
EUH	ELECTRIC UNIT HEATER	RV	ELECTF
EWH	ELECTRICAL WATER HEATER	RVNR	REDUC
FACP	FIRE ALARM CONTROL PANEL	SB	SMART
FAPS	FIRE ALARM PULL STATION	SF	SUPPL
FRP	FIBER REINFORCED PLASTIC	SLD	SINGLE
FVNR	FULL VOLTAGE, NON-REVERSING	SM	MANUA
FWU	FURNISHED WITH UNIT		MOUNT
DC	DIRECT CURRENT	SS	SOLID
GFI	GROUND FAULT INTERRUPTER	SWBD-1	SWITCH
GND	GROUND	TC	TIME C
GUI	GAS UNIT HEATER	TS	TRANS
HOA	HAND-OFF-AUTOMATIC	T&B	TOP A
HP	HORSEPOWER	TYP	TYPICA
HPS	HIGH PRESSURE SODIUM	UG	UNDER
ΗZ	HERTZ	V	VOLT
ICB	INSULATED CASE CIRCUIT BREAKER	VA	VOLT-
JB	JUNCTION BOX	VFD	VARIAB
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	W	WATT
KCMII	THOUSAND CIRCULAR MII	W/	WITH
KV	THOUSAND VOLTS	WP	WEATH
KVA	THOUSAND VOLT-AMPS	XFMR	TRANS
KW	THOUSAND WATTS (KILOWATT)	XP	EXPLO
	LIGHTING CONTACTORS	3PH	THREF
LCP	LATERAL CONTROL PIT	4W	FOUR
L FD		3W	THREE

SCALE: NONE

DESIGNWORKS

199 prospect street, suite A portland, maine 04101 NORTH 22 balsam drive Millinocket, maine 04462 PH: 207.347.5252 & 207aditelesigeworks.com

ONE-LINE DIAGRAM

E0.0 SCALE: NONE

2

P2

200A

120/208

3PH

SMCC - MIDCOAST GREENHOUSE FACILITY **BRUNSWICK, MAINE**

- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK. OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK. SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY PIR INDICATED PASSIVE INFRARED TECHNOLOGY WSH WALL MOUNTED MOTION SENSOR. MOUNT AT 120" AFF UNLESS OTHER WISE NOTED S_{MS} WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED S_3S_4 single pole switch, 120V, 20A, SPEC grade, grounding type, mount 48" AFF, 3=3–way, SaS = 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. S_{PL} Switch with Pilot light, switch shall be provided w/ engraved nameplate identifying use S_{RF} REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX. S_{RL} REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX. S_B BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF D_3D_4 single pole dimmer switch, 120V, 20A, SPEC grade, grounding type, mount 48" AFF, 3=3-WAY, DaD 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PC PHOTOCELL LC LIGHTING CONTACTOR TC TIMECLOCK IP INTERCOM PANEL IN UNIT IC INTERCOM PANEL AT RECEPTION (SP) CEILING MOUNTED SPEAKER FACP FIRE ALARM CONTROL PANEL FAPS FIRE ALARM REMOTE POWER SUPPLY ANN FIRE ALARM ANNUNCIATOR PANEL FEM FIRE EXTINGUISHER ELECTRONIC MONITOR-SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP TIRE ALARM AUDIO/VISUAL, MOUNT 6'-8"AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MINIHORN, "CL" DENOTED CEILING MOUNTED. NO DESIGNATION EQUALS 15cd FIRE ALARM PULL STATION, MOUNT 48"AFF ⋈S FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE 135°HD SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR (SD) SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. ERSD SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEV RECALL SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE CARBON MONOXIDE DETECTOR (CO) SD DUCT SMOKE DETECTOR & TEST STATION KB FIRE ALARM KNOX BOX FD/SD FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING. SPRINKLER SYSTEM FLOW SWITCH SUPPLIED BY SPRINKLER CONTRACTOR WIRED BY EC, VERIFY LOCATIONS WITH SPRINKLER SPRINKLER SYSTEM TAMPER SWITCH CONTRACTOR. HM MAGNETIC DOOR HOLD N NURSE CALL BASE STATION NC NURSE CALL PULL STATION NURSE CALL ANNUNCIATOR LIGHT WP DENOTES WEATHERPROOF CONSTRUCTION RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
 - RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

						_
6'	4'	2'	0	4'		8'
	СНІ	ECK GRA	<u>BAR_SC</u> 1/4" = 1 PHIC_SCAL	E <u>ALE</u> 1'—0" LE BEFORE US	SING	

GENERAL NOTES AND DETAILS

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DOMESTIC WATER 75KVA DT TRANSFORMER

SMCC - MIDCOAST GREENHOUSE FACILITY BRUNSWICK, MAINE

	LIGHT FIXTURE SCHEDULE												
ГҮРЕ	MANUFACTURER AND MODEL NUMBER	LAMP INFO	REMARKS										
A	BEACON LIGHTING QSP1-24L-25-3K7-3-277-PSS-SCP	25W/3000K/ 2640 LUMENS	EXTERIOR SURFACE MOUNT WALL PACK FIXTURE, TYPE 3 DISTRIBUTION, ZERO UPLIGHT DARK SKY COMPLIANT. OCCUPANCY SENSOR AND INTEGRAL BATTERY BACKUP. FINISH; PLATINUM SILVER SMOOTH.										
в	COOPER LIGHTING SL-4'	6W/ft /3000K/ 503 LUMENS	SURFACE MOUNTED LINEAR SIGN LIGHT. EXTRUDED ALUMINUM HOUSING, ACRYLIC SHIELDING. UNIVERSAL VOLTAGE REMOTE DRIVER (TO BE INSTALLED INDOORS). WET LOCATION RATED.										
L	COLUMBIA LIGHTING MPS8- 30XW-CW-EU + CM48SCF3-KIT	36.2W/3500K/ 5146 LUMENS	SURFACE MOUNT 8' LINEAR UTILITY LIGHT. CODE GAUGE STEEL HOUSING, FROSTED LENS. FOR PENDANT MOUNTED PURCHASE WITH ACCESSORY CM48SCF3-KIT FOR 48" ADJUSTABLE CABLE MOUNTING KIT.										
L1	COLUMBIA LIGHTING W3B4- 35VW-SFA-ED-U	23W/3500K/ 3171 LUMENS	SURFACE MOUNT ON WALL 4' LINEAR UTILITY LIGHT. EXTRUDED ALUMINUM HOUSING, WITH THERMOPLASTIC ALUMINUM ENDCAPS. FROSTED WRAPPED ACRYLIC LENS. FINISH: WHITE										

	PANEL P1 277/480V 3PH 4W 225 AMP MCB 65K AIC NEMA TYPE 1 (SURFACE)															
:KT #	LOAD DESCRIPTION	AT	Р	CA	DF	0A	VA		CKT#	LOAD DESCRIPTION	AT	Ρ	CA	DF	DA	VA
							11996		2							4500
3 P2 VIA	TRANSFORMER	100	3				9630		Z EWH-1		20	3	25	0.75	19	4500
5							10532		6							4500
7						4500		GBOM I	IGHTS	20	2	18	1.00	16	4434	
3 EWH-1	1.30	3	25	0.75	19	4500		10							4434	
1'	4500 12 GROW LIGHTS							20	2	18	1.00	16	4434			
			2	1 5	1.00	18	4234		12							4434
15			<u> </u>				4234				20	2	15	1.00	16	4434
	LIGHTS	20	2	1 5	1.00	16	42.34		16			-				44.34
13			<u> </u>				44.34		GROW L	JGHTS	20	2	15	1.00	16	44.34
	LIGHTS	20	2	16	1.00	16	44-34		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		_					44-34
23		<u> </u>	<u> </u>	-		-	44-34		GROW L	JGHTS	20	2	18	1.00	16	4-34
	LIGHTS	20	2	15	1.00	18	4-34		20		20	1		1.00	~	4-34
20 FYTER	OR WALL PACKS	20	·	· - 0	1.00	17	2774	1	30 5P47E		20	÷		1.00	с г	
31 SPARE		20	·		1.00		2111		32 SPARE		20	1		1.00	с Г	-
33 SPARE	-	20	1 -		1.00	-	r -	1	34 SPARE		20	· ·		1.00	:	
35 SPARE		20	1 -	-	1.00	2	2		36 SPARE		20	1		1.00	5	2
37 SPARE		20	· 1	•	1.00	2	1 :	1	38 SPARE		20	1		1.00	5	2
39 SPARE		20			1.00	5	:	4) SPA3E 20 1						1.00		:
41 SPARE		20	1		1.00	÷	1	1	42 SPARE		20	1		100	:	2
							·	<u> </u>								·

Panel Voltage Total Demand KVA Tet Demand Amps

480 141.74 170.49

AT - Amp Trip P - Poies A - Amps CA - Connected Amperes DF - Demarc Factor (1 - .1) DA - Demand Amperes VA-VoltAmps 9.0 Man Lug Only VCB - Main Circuit Breaker

PANEL P2 120/208 3PH 4W 225 AMP MCB 65K AIC NEMA TYPE 1 (SURFACE)														
KT # LOAD DESCRIPTION	AT	Р	CA	DF	0A	VA		CKT # LOAD DESCRIPTION	AT	Ρ	CA	DF	DA	VA
1 CURTAIN MOTORS	20	1.	8	1.00	ŝ	9£1		2 CP-1	1'5	1	1	1.00		158
3 WALL VENT MOTORS	20	1	8	1.00	ê	961		4 GUH-1 - CONTAINER PROD	20	1	13	100	13	1525
5 HYDROPONIC TABLES	20	1		1.00	2	961		6 GUH-1 - CONTAINER PROD	20	1	13	1.00	13	1525
	31	2	G	4.00	5	936		8 GUH-1 - HYDROPONICS	20	1	13	1.00	13	1525
3	120	ľ			2	936		10 GUH-1 - HYCROPONICS	20	1	13	1.00	13	1525
1" FOG MOTOR	20	1	· 4	1.00	14	1681		12 ROOF VENT MOTORS	20	1	8	100	8	961
13 FOG MOTOR	20	1	- 4	1.00	14	1681		14 ROOF VENT MOTORS	20	1	8	1.00	Ģ.	961
15 CONTROLLER	20	1	2	1.00	2	240		16 FYDROPONICS RECEPTACLES	20	1	8	1.00	ŝ	961
17 CONTAINER PRODUCTION RECEPTACLES	20	1	8	1.00	ê	961		18 FYDROPONICS RECEPTACLES	20	1	8	1.00	8	961
19 CONTAINER PRODUCTION RECEPTACLES	20	1	8	1.00	8	9€1		20 FYDROPONICS RECEPTACLES	20	1	8	1.00	ġ.	961
21 CONTAINER PRODUCTION DED/CATED CIRCU.T	20	1	5	1.00	Ê	600		22 FYDROPONICS RECEPTACLES	20	1	\$	1.00	8	961
23 CONTAINER PRODUCTION DEDICATED CIRCUIT	20	-	5	1.00	Ê	600		24 FYDROPONICS TABLE(S)	20	1	8	1.00	â	961
25 CONTAINER PRODUCTION RECEPTACLES	20] ·	8	1.00	â	961		26 FYDROPONICS TABLE(S)] 20	1	8	1.00	ß	961
27 CONTAINER PRODUCTION RECEPTACLES	20	1	8	1.00	9	961		28 FYDROPONICS TABLE(S)	20	1	8	1.00	g	961
29 CONTAINER PRODUCTION RECEPTACLES	20	1	8	1.00	ő	961		30 FYDROPONICS TABLE(S)	20	1	8	1.00	8	961
31 INTERIOR GENERAL LIGHTING	20	1	8	1.00	ŝ	961		32 FYDROPONICS TABLE(S)	20	1	8	1.00	Ģ.	961
33 SPARE	20	1		1.00	;	5		34 SPARE	20	1		100	5	0
35 SPARE	20	1.		1.00	:	:		36 SPARE	20	1		1.00	5	Ĵ
37 SPARE	20	1		1.00	:	:		38 SPARE	20	1		1.00	:	-
39 SPARE	20	1.		1.00	• •	"		40 SPARE	20	1		1.00	۲.	• •
41 SPARE	20	•		1.00	÷	:		42 SPARE	20	1		100	:	0

Panel Voltage Total Demand KVA Tot Demand Amps

** VERIFY BREAKER SIZE WITH FINAL SPECIFICATION

208 32.16 89.26

AT - Amp Trip P - Poles A - Amps CA - Connected Amperes

DF - Demand Factor (1 - .1) DA - Demand Amperes

VA-VoltAmps

VLO - Main Lug Only VCB - Main Crouit Breaker

ADAR202319 - OCTOBER 21 2024

E1

ELECTRICAL SITE PLAN

ADAR202319 - OCTOBER 21 2024 E12

4" EXHAUST/INTAKE, COMPLY — WITH NFPA 54 AND MANUFACTURER INSTRUCTIONS

> 4" S, SEE SITE PLAN-FOR CONTINUATION

4" EXHAUST/INTAKE, COMPLY — WITH NFPA 54 AND MANUFACTURER INSTRUCTIONS

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

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SMCC - MIDCOAST GREENHOUSE FACILITY BRUNSWICK, MAINE

MECHANICAL PLAN M101

ADAR202319 - OCTOBER 21 2024

SYMBOL DESCRIPTION COMPRESSED AIR PIPING (CA) ——CA—— CONDENSATE DRAIN PIPING (C) _____ C _____ —— CTR —— COOLING TOWER RETURN PIPING (CTR) — CTS — COOLING TOWER SUPPLY PIPING (CTS) —— CWR —— CHILLED WATER RETURN PIPING (CWR) —— CWS — CHILLED WATER SUPPLY PIPING (CWS) — FOR — FUEL OIL RETURN PIPING (FOR) ——FOS —— FUEL OIL SUPPLY PIPING (FOS) GAS PIPING (G) — G — — HOT WATER RETURN PIPING (HWR) —— HWR —— HOT WATER SUPPLY PIPING (HWS) — HWS— REFRIGERANT LIQUID PIPING (RL) —— RL ——— REFRIGERANT GAS PIPING (RG) — RG — — SANITARY PIPING BELOW FLOOR (SAN) SANITARY PIPING ABOVE FLOOR (SAN) SANITARY VENT PIPING RAINWATER LEADER ABOVE SLAB (RWL) COLD WATER PIPING (CW) HOT WATER PIPING (HW) RECIRCULATED HOT WATER PIPING (RHW) PIPE CAP DIRECTION OF FLUID FLOW **—** ELBOW UP ELBOW DOWN _____ PIPE TEE UP PIPE TEE DOWN ____ PIPE REDUCER ____ PIPE WITH GUIDE PIPE WITH ANCHOR BUTTERFLY VALVE 本 OS & Y GATE VALVE

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SYMBOL

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DESCRIPTION

CHECK VALVE

BACKFLOW PREVENTER (BFP)

AUTOMATIC FLOW CONTROL VALVE RELIEF VALVE (RV) BALL VALVE BALL VALVE 3/4" BALL VALVE WITH 3/4" HOSE END GATE VALVE PRESSURE REDUCING VALVE FUSIBLE VALVE STRAINER W/BLOWDOWN BALL VALVE 2-WAY CONTROL VALVE SOLENOID VALVE 3-WAY CONTROL VALVE 3-WAY CONTROL VALVE (TOP VIEW) 4-WAY CONTROL VALVE (TOP VIEW) 2 BUTTERFLY VALVES W/SINGLE ACTUATOR BUTTERFLY VALVE W/ACTUATOR TRIPLE-DUTY VALVE MOD _____ PIPE FLANGE PUMP WITH FLANGES BASE MOUNTED PUMP CARTRIDGE TYPE INLINE PUMP VERTICAL INLINE PUMP FLEXIBLE PIPE CONNECTION (FC) PITCH DOWN

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MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EAT	ENTERING AIR TEMPERATURE	HWS/R	HOT WATER SUPPLY AND RETURN	RLA	RUNNING LOAD AMPS
THERMOMETER IN WELL	AD	ACCESS DOOR	EDB	ENTERING DRY BULB	I=B=R	INSTITUTE OF BOILER AND	RPM	REVOLUTIONS PER MINUTE
WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EDC-#	ELECTRIC DUCT COIL TAG	IN.	RADIATOR MANUFACTURERS	RPZ	REDUCED PRESSURE ZONE
PRESSURE SWITCH OR SENSOR	AHU-#	AIR HANDLING UNIT TAG	EER	ENERGY EFFICIENCY RATIO	IN.	INCHES	RTU	ROOM TEMPERATURE SENSOR
EMURSION TEMPERATURE SENSOR	AMS	AIRFLOW MONITORING STATION	EF-#	EXHAUST FAN TAG	L-#	LOUVER TAG	RV	RELIEF VALVE
DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	EFF	EFFICIENCY	LAT	LEAVING AIR TEMPERATURE	RWL	RAINWATER LEADER
ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	ESP	EXTERNAL STATIC PRESSURE	LB	POUNDS	SA	SUPPLY AIR
THERMOSTAT OR SENSOR ON WALL	APD	AIR PRESSURE DROP	ET-#	EXPANSION TANK TAG	LWS/R	LOOP WATER SUPPLY/RETURN	SAN	SANITARY (DRAIN & WASTE)
TSTAT OR SENSOR W/ TAMPERPROOF GUARD) AS-#	AIR SEPARATOR TAG	EWB	ENTERING WET BULB	LRA	LOCKED ROTOR AMPS	SD	SMOKE DAMPER
MANUAL AIR VENT	ATC	AUTOMATIC TEMPERATURE CONTROL	EWH-#	ELECTRIC WATER HEATER TAG	LWCO	LOW WATER CUTOUT	SEER	SEASONAL ENERGY EFFICIENCY RATIO
NOTE TAG (NUMBER)	BD-#	BYPASS DAMPER TAG	EWT	ENTERING WATER TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	SF	SUPPLY FAN
AIR DEVICE TAG (LETTER) WITH CFM	BFP-#	BACKFLOW PREVENTER TAG	EXG	EXISTING	MAX	MAXIMUM	SP	STATIC PRESSURE
ROOM NUMBER	BHP	BRAKE HORSEPOWER	EXH	EXHAUST	MBH	THOUSANDS OF BTU PER HOUR	ΔT	TEMPERATURE DIFFERENTIAL
TURNING VANES	BTUH	BRITISH THERMAL UNITS PER HOUR	FC	FLEXIBLE CONNECTION	MCA	MINIMUM CIRCUIT AMPACITY	TEMP.	TEMPERATURE
DUCT W/MANUAL DAMPER	CC-#	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MIN	MINIMUM	TCP	TEMPERATURE CONTROL PANEL
DUCT W/FLEXIBLE CONNECTION (FC)	CRD	CEILING RADIATION DAMPER	FD	FIRE DAMPER	NC	NOISE CRITERION	TMV-#	THERMOSTATIC MIXING VALVE TAG
LAGGED DUCT	CFM	CUBIC FEET PER MINUTE	FD- #	FLOOR DRAIN TAG	NIC	NOT IN CONTRACT	TSP	TOTAL STATIC PRESSURE
DUCT W/ACOUSTIC LINING	CO	CLEANOUT	FLA	FULL LOAD AMPS	NTS	NOT TO SCALE	TYP	TYPICAL
DUCT W/SQUARE-TO-ROUND TRANSITION	CP-#	CIRCULATING PUMP TAG	FPHB	FROST PROOF HOSE BIBB	OA	OUTSIDE AIR	UH-#	UNIT HEATER TAG
FLEXIBLE DUCT	Cv	VALVE COEFFICIENT	FPM	FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER	VB	VACUUM BREAKER
MOTOR OPERATED DAMPER	CW	COLD WATER	FSD	COMBINATION FIRE & SMOKE DAMPER	0.D.	OUTSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
AIRFLOW OUT	DB	DRY BULB	FT	FEET	OED	OPEN ENDED DUCT	VTR	VENT THRU ROOF
AIRFLOW IN	dB RE	DECIBELS RELATIVE TO	GA.	GAGE	OPD	OVERCURRENT PROTECTIVE DEVICE	V/PH/HZ	VOLTS/PHASES/HERTZ
DIAMETER OR FLAT OVAL	DC	DOUBLE CHECK	GAL	GALLONS	P-#	PLUMBING FIXTURE TAG	WB	WET BULB
FIRE DAMPER	DCA	DOUBLE CHECK ATMOSPHERIC	GPH	GALLONS PER HOUR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	WCO	WALL CLEANOUT
ROUND OR FLAT OVAL DUCT DOWN	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAGE	WG	WATER GAGE
ROUND OR FLAT OVAL DUCT UP	DIA	DIAMETER	HC-#	HEATING COIL TAG	PVC	POLYVINYL CHLORIDE (PIPE)	WPD	WATER PRESSURE DROP
SUPPLY DIFFUSER	DIW	DOWN IN WALL	HP	HORSEPOWER	RA	RETURN AIR	WTD	WATER TEMPERATURE DROP
RETURN GRILLE	DN	DOWN	HRV- *	HEAT RECOVERY VENTILATOR TAG	RD	ROOF DRAIN	W/	WITH
STEAM TRAP	EA	EXHAUST AIR	HW	HOT WATER	RHW	RECIRCULATED HOT WATER		
WATER HAMMER ARRESTOR								

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PLI	PLUMBING FIXTURE CONNECTION SCHEDULE												
TAG	DESCRIPTION	SAN	VENT	CW	HW								
P-1	COUNTERTOP PLANT SINK	1-1/2"	1-1/2"	1/2"	1/2"								
P-1A	ADA COUNTERTOP PLANT SINK	1-1/2"	1-1/2"	1/2"	1/2"								
EW-1	EMERGENCY EYE WASH	-	-	3/4"	3/4"								
FD-1	FLOOR DRAIN	3"	2"	-	-								
HB	HOSE BIB	-	-	3/4"	-								

NOTES:

1. MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".

2. PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE.

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₹₹₽ 6' 4' 2' O 4' <u>BAR_SCALE</u> 1/4" = 1'-0" CHECK GRAPHIC SCALE BEFORE USING

MECHANICAL DETAILS AND LEGEND M201 ADAR202319 - OCTOBER 21 2024

THE	THERMOSTATIC MIXING VALVE PERFORMANCE SCHEDULE													
		INLET	OUTLET			PROVIDE SPARE	BASIS OF D	DESIGN: SYMMONS						
TAG	FLOW RATE (GPM)	CONNECTION (INCHES)	CONNECTION (INCHES)	W.P.D. (PSIG)	SETPOINT (DEG F)	CARTRIDGE (Y) OR (N)	ARRANGMENT	MODEL						
TMV-1	11.0	3/4"	3/4"	10.0	120	-	WALL	7-200						

UNIT F	JNIT HEATER PERFORMANCE SCHEDULE													
тас	INPUT	OUTPUT	EFFICIENCY	AIRFLOW	THROW	MTG. HT.	WEICHT		ELECTRICAL REQUIREMENTS BASIS OF DESIGN: REZNOR					
IAG	(MBH)	(MBH)	(%)	(CFM)	(FEET)	(FEET)	WEIGHT	FUEL	HP	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
GUH-1	250.0	145.3	83.0	4270	27	*	400	PROPANE	3/4	12.7	115/1/60	CONTAINER PRODUCTION	HORIZONTAL	UBXC

ELECTRIC WATER HEATER SCHEDULE											
TAC			RECOVERY	WATER TEMPERATURE (F)		ELECTRICAL				BASIS OF DESIGN: A.O. SMITH	
170			GPH @ 100F RISE	RISE	SETPOINT (F)	ELEMENTS	KW	POWER	AMPS	MODEL	REMARKS
EWH-1	COMMON	20	37	100	140	1	9.0	208/3/60	25	DSE-20	NOTES: ALL

NOTES:

1. PERFORMANCE IS BASED ON NON-SIMULTANEOUS OPERATION.

2. PROVIDE MANUFACTURERS STANDARD WARRANTY MINIMUM FIVE YEARS.

EXPANSION TANK PERFORMANCE SCHEDULE

	TANK	ACCEPTANCE	MAX. WORK'G	MAX. WORK'G	DRY	BASIS OF DESIGN: TACO				
TAG	VOLUME (GAL)	VOLUME (GAL)	TEMPERATURE (DEG F)	PRESSURE (PSIG)	WEIGHT (LBS)	MOUNTING	SERVICE	MODEL		
ET-1	4.0	2.5	240	125	45	FLOOR MOUNT	EWH-1	CBX15-125		

BFP PERFORMANCE SCHEDULE

TAG	SIZE	FLOW RATE (GPM)	W.P.D. (PSI)	MAX. WORK'G	MAX. WORK'G	TESTABLE	BASIS OF DESIGN: WATTS		
				TEMPERATURE	PRESSURE		BODY	SERVICE	MODEL
				(DEGREES F)	(PSI)	(Y) OR (N)	STYLE	OEI (VIOE	MODEL
BFP-1	2"	57	13.0	145	175	Y	RPZ	WATER ENTRANCE	LF909
BFP-2	2"	57	13.0	145	175	Y	RPZ	WATER ENTRANCE	LF909

PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE	HEAD (FT.WG)		ELEC	CTRICAL REQU	IREMENTS	BASIS OF DESIGN: TACO		
	(GPM)		RPM	HP	AMPS	V/PH/HZ	SEVICE	ARRANGEMENT	
CP-1	1.0	25.0	3250	1/8	1.4	115/1/60	DOM HW RECIRC (EWH-1)	CARTRIDGE	

1. PUMPS SHALL BE STAINLESS STEEL CONSTRUCTION

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