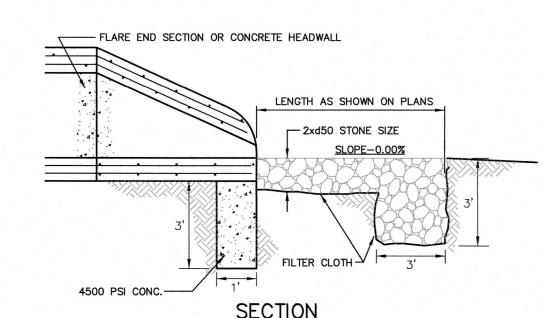


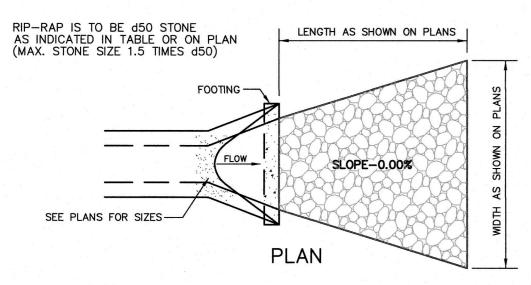
- NOTES:

  1. MINOR VARIATIONS TO THE ABOVE DIMENSIONS ARE ACCEPTABLE WITH THE EXCEPTION OF THE INSIDE DIAMETER DIMENSION.
- 2. A 1 INCH THICK MORTAR BED AND A 6 INCH DEEP LAYER OF COARSE AGGREGATE ARE REQUIRED WHEN A PRECAST CONCRETE CUTOFF WALL IS USED.
- NO SEPARATE PAYMENT WILL BE MADE FOR THE CONCRETE CUTOFF WALL. THE COST OF THE CONCRETE CUTOFF WALL SHALL BE INCLUDED IN THE COST OF THE END SECTION.
- 4. THE WIDTH OF THE CONCRETE CUTOFF WALL SHALL BE EQUAL TO THE MAXIMUM WIDTH OF THE END SECTION AS INDICATED ON THE DETAIL BY DIMENSION "C". HOWEVER, IF THE ACTUAL MAXIMUM WIDTH EXCEEDS THE CHART VALUE OF "C", THE WIDTH OF THE CONCRETE CUTOFF WALL SHALL EQUAL THE ACTUAL MAXIMUM WIDTH OF THE END SECTION.

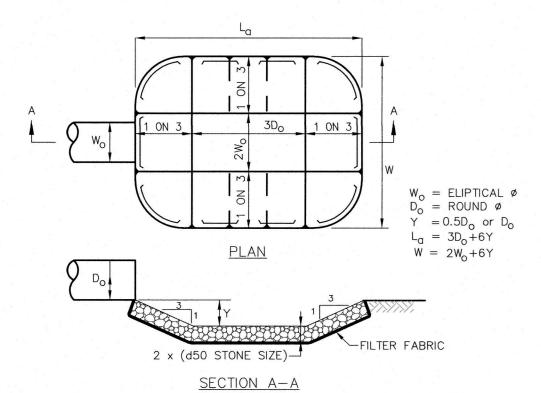
# FLARED END SECTION

N.T.S.





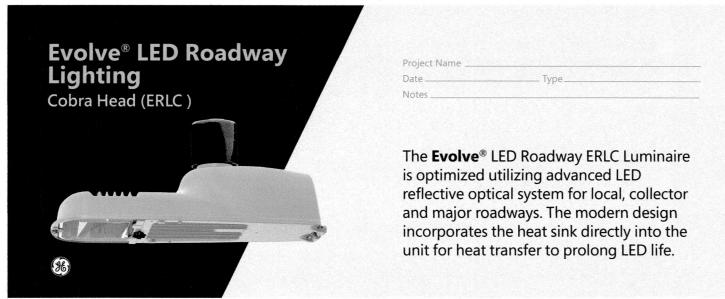
RIP-RAP OUTFALL DETAIL (WITH CONCRETE FOOTING) N.T.S.



NOTE: d50 INDICATES MEDIAN STONE SIZE AS DESIGNATED ON PLAN. 50% BY WEIGHT OF MIXTURE TO CONTAIN STONES OF SIZE < d50. MAXIMUM STONE SIZE 1.5 TIMES d50.

PREFORMED SCOUR HOLE

N.T.S.



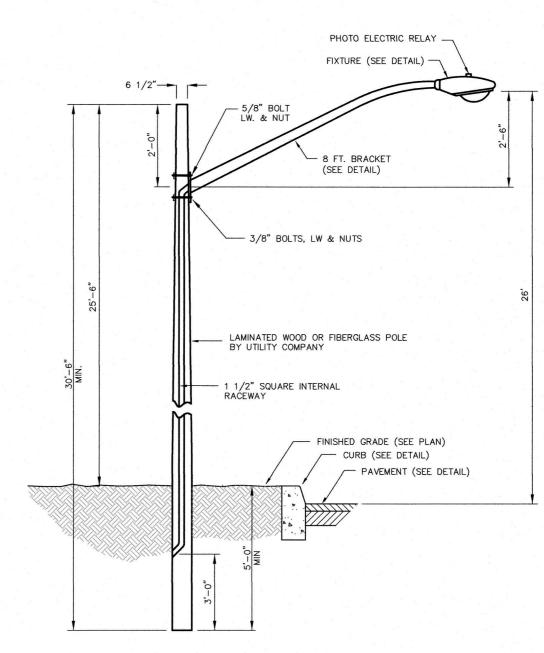
CONSTRUCTION			LUMEN MAINTENANCE					
Housing:		cast enclosure casting integral heat	Projected Lxx per IES TM-21-11 at 25°C					
l enc		nt tempered glass	Lumen	Distril	butions		XX(10K) @ Ho	
Lens.		tant powder paint,	Codes			25,000 HR	50,000 HR	60,000 HR
	≥ 2.0 mil thick		02 ,03, 04, 05		B5, C5	L97	L93	L92
Paint:	(RAL & custom colors available)		06	Carry In Color	B5, C5	L96	L91	L89
	Standard = Bla Optional = Co	ck, Dark Bronze, Gray, White astal Finish	07	A5, I	B5, C5	L95	L89	L87
Weight:	8.5 lbs (5.6 kgs		Lumen	Dictri	butions	LX	(X(10K) @ H	lours
			Codes	Distri	butions	25,000 HR	50,000 HR	60,000 HF
	OPTIC	AL SYSTEM	02 ,03, 04, 05	,	V4	L96	L93	L93
	Lumens:	2,000 - 7,000	06		V4	L94	L90	L88
	Distribution:	Type II Narrow, II/III³, III, V	Note: Projected Lxx					
	Efficacy: 110-143 LPW		tolerances apply to initial luminous flux and lumen maintenance measurements.					
	Efficacy:	110-143 LPW						
	Strander Strander Grander Grander	110-143 LPW 2700K, 3000K, 4000K & 5000K			R	ATINGS		
	CCT:		Opera	tina				
	CCT:	2700K, 3000K, 4000K & 5000K	Opera Temperat		-40°C to			
	CCT: CRI:	2700K, 3000K, 4000K & 5000K	Temperat	ure:	-40°C to		1-2018	
	CCT: CRI:	2700K, 3000K, 4000K & 5000K ≥ 70  CTRICAL	Temperat Vibrat	ture:	-40°C to	o 50°C ANSI C136.3	1-2018 ce with IES St	andards
	CCT: CRI:	2700K, 3000K, 4000K & 5000K ≥ 70 CTRICAL 120-277V (no 347-480V)	Temperat Vibrat	ture:	-40°C to	o 50°C ANSI C136.3 in accordanc		andards
Inp	CCT: CRI: ELEC nput Voltage: ut Frequency:	2700K, 3000K, 4000K & 5000K ≥ 70 CTRICAL 120-277V (no 347-480V)	Temperat Vibrat	ture:	-40°C to	o 50°C ANSI C136.3		andards
Inp	CCT: CRI: ELEC nput Voltage: ut Frequency:	2700K, 3000K, 4000K & 5000K ≥ 70 CTRICAL 120-277V (no 347-480V) 50/60Hz	Temperat Vibrat LM	ture: tion: I-79:	-40°C to 3G per a Testing	o 50°C ANSI C136.3 in accordanc	ce with IES St	andards
Inp	CCT: CRI: ELECTOR OF THE PROPERTY OF THE PROPE	2700K, 3000K, 4000K & 5000K ≥ 70  CTRICAL  120-277V (no 347-480V) 50/60Hz ≥ 90% at rated watts	Temperat Vibrat LM Dimm	ture: tion: I-79:	-40°C to 3G per A Testing CO Standar Optiona Photo E	o 50°C  ANSI C136.3 in accordance  NTROLS  rd - 0-10V al - DALI (Op	etion U)	
Inp To	CCT: CRI: ELECTOR OF THE PROPERTY OF THE PROPE	2700K, 3000K, 4000K & 5000K ≥ 70  CTRICAL  120-277V (no 347-480V) 50/60Hz ≥ 90% at rated watts ≤ 20% at rated watts	Temperat Vibrat LM Dimm	ture: tion: 1-79: ning:	-40°C to 3G per a Testing CO Standar Optiona Photo E LightGr	o 50°C  ANSI C136.3 in accordance  NTROLS  rd - 0-10V al - DALI (Optical Compatibus)	etion U)	
Inp To Star	CCT: CRI: ELECTOR CONTROL CONT	2700K, 3000K, 4000K & 5000K ≥ 70  CTRICAL  120-277V (no 347-480V) 50/60Hz ≥ 90% at rated watts ≤ 20% at rated watts  ROTECTION*	Temperat Vibrat LM Dimm	ture: tion: 1-79: ning:	-40°C to 3G per a Testing CO Standar Optiona Photo E LightGr	o 50°C  ANSI C136.3' in accordance  INTROLS  rd - 0-10V al - DALI (Op	etion U)	

Evolve® LED Roadway Lighting Cobra Head (ERLC)

Project Name		
Date	Type	
Notes		

LUMEN		LUMENS			WATTAGE	BUG RATINGS			
LUMEN OUTPUT	DIST.	4000K/5000K	3000K	2700K	120-277V	4000K/5000K	3000K	2700K	
	A5	2000	1940	1760	15	B1-U0-G1	B1-U0-G1	B1-U0-G1	
	B5	2000	1940	1760	15	B1-U0-G1	B1-U0-G1	B1-U0-G1	
02	C5	2000	1940	1760	15	B1-U0-G1	B1-U0-G1	B1-U0-G1	
	V4	1990	1950	1890	15	B1-U0-G0	B1-U0-G0	B1-U0-G0	
	A5	3000	2910	2640	22	B1-U0-G1	B1-U0-G1	B1-U0-G1	
03	B5	3000	2910	2640	22	B1-U0-G1	B1-U0-G1	B1-U0-G1	
US	C5	3000	2910	2640	22	B1-U0-G1	B1-U0-G1	B1-U0-G1	
	V4	3100	3030	2950	23	B1-U0-G0	B1-U0-G0	B1-U0-G0	
	A5	4000	3880	3520	28	B1-U0-G1	B1-U0-G1	B1-U0-G1	
04	B5	4000	3880	3520	28	B1-U0-G1	B1-U0-G1	B1-U0-G1	
•	C5	4000	3880	3520	28	B1-U0-G1	B1-U0-G1	B1-U0-G1	
	V4	4030	3940	3840	32	B2-U0-G0	B2-U0-G0	B2-U0-G0	
	A5	5000	4850	4400	36	B1-U0-G1	B1-U0-G1	B1-U0-G1	
05	B5	5000	4850	4400	36	B1-U0-G1	B1-U0-G1	B1-U0-G1	
03	C5	5000	4850	4400	36	B1-U0-G2	B1-U0-G2	B1-U0-G1	
	V4	5200	5090	4950	43	B2-U0-G1	B2-U0-G1	B2-U0-G1	
	A5	6000	5820	5280	46	B2-U0-G2	B1-U0-G1	B1-U0-G1	
	B5	6000	5820	5280	46	B1-U0-G2	B1-U0-G2	B1-U0-G2	
06	C5	6000	5820	5280	46	B1-U0-G2	B1-U0-G2	B1-U0-G2	
	V4	6350	6220	6050	55	B2-U0-G1	B2-U0-G1	B2-U0-G1	
	A5	7000	6790	6160	56	B2-U0-G2	B2-U0-G2	B2-U0-G2	
07	B5	7000	6790	6160	56	B1-U0-G2	B1-U0-G2	B1-U0-G2	
	C5	7000	6790	6160	56	B1-U0-G2	B1-U0-G2	B1-U0-G2	

For additional information on ERLC IES files, please click one of the following links:



(SUBJECT TO UTILITY COMPANY REQUIREMENTS) UTILITY POLE LIGHT DETAIL

**GE current** a Daintree company



\_ \_

B5 = Type II/III<sup>3</sup> 30 = 3000K<sup>4</sup> D = 7-Pin Receptacle with

Shorting Cap

04 C5 = Type III 40 = 4000K E = 7 Pin Receptacle with Long Life non-Dimming PE Control GRAY = Gray F = Fusing

Note: 0-10V control standard

Cobra-head

unless DALI Option "U"

 $02^2$  A5 = II Narrow 27 =  $2700K^4$  A = 7-Pin Receptacle

05 V4 = Type V 50 = 5000K

Lighting Cobra Head (ERLC)

2 = 208

3 = 240

Catalog Logic

\_\_\_\_

L = Local

Not Available with Fusing

5 Compatible with LightGrid

<sup>2</sup> Lumen choice only offered for 120-240V

Select 2700K or 3000K CCT for IDA approved units

**GE current** 

a Daintree company

<sup>6</sup> Recommended for installations within 750 feet from coast. Lead time varies, check with factor

Option M1 provides for MagnaPak – 40 Fixtures per MagnaPak Container. Single Pack box is standard

3 See ISO plots of the B5 Distribution

Not available with DALI "U" option

**GE current** 

a Daintree company

Evolve® LED Roadway

roject Name		
ate	Туре	
otes		

\_ \_ \_

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BLCK = Black B = Tether

DKBZ = Dark C1 = Captive Door

WHTE= White G = Internal Bubble Level

L = Tool-Less Entry

M1 = MagnaPak<sup>8</sup>

R = Secondary 10kV/5kA

T = Secondary 20kV/10kA

U = DALI Programmable<sup>5</sup> V1 = Field Adjustable

Y = Coastal Finish<sup>6</sup>

XXX = Special Options

Type III

Not all product variations listed on this page are DLC qualified.

Module<sup>1,7</sup>

SUGGESTED HID REPLACEMENT

Approximately 2,000 - 7,000 lumens to replace 50-100W HPS

Note: actual replacement lumens may vary based upon mounting height pole spacing, design criteria, etc.

The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure

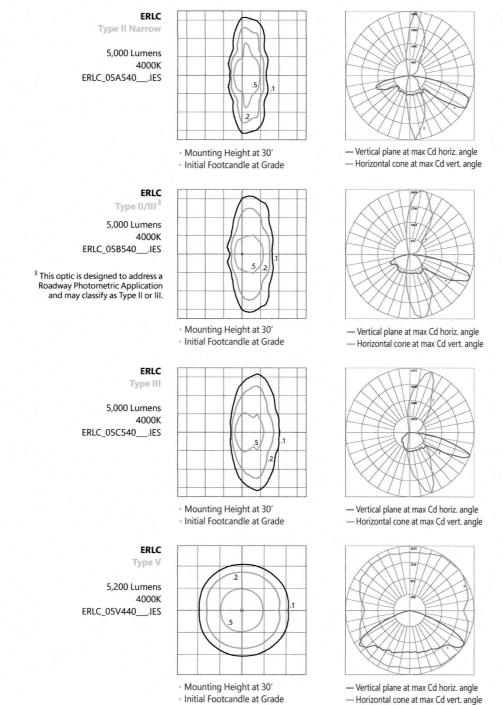
Previous Optical Pattern Latest

Type II Narrow

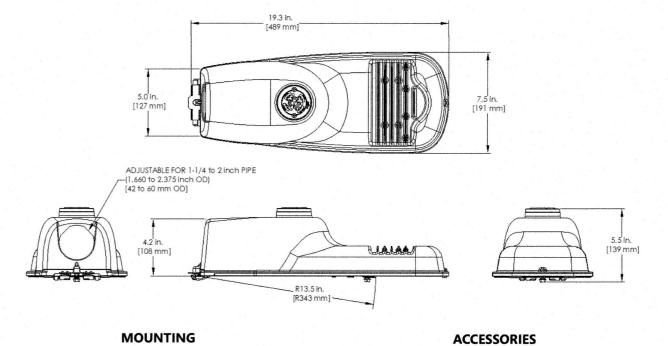
the proper design is by doing a lighting layout.

Evolve® LED Roadway Lighting Cobra Head (ERLC)
Photometric Plots





**GE current** a Daintree company **Evolve® LED Roadway** Lighting Cobra Head (ERLC) Mounting & Accessories



- Adjustable for 1.25 to 2 in. nominal mounting pipe Integral diecast mounting pipe stop Slipfitter with +/- 5 degrees of leveling adjustment **EFFECTIVE PROJECTED AREA** 0.3 sq ft max (0.029 sq m)

WEIGHT Approximate net weight: 8.5 lbs (3.8 kgs)

PED-MV-LED-7 ANSI C136.41 Dimming PE, 120-277V PED-347-LED-7 ANSI C136.41 Dimming PE, 347V PED-480-LED-7 ANSI C136.41 Dimming PE, 480V Standard 120-277V Standard 347-480V SCCL-PECTL Shorting Cap See pages 22 & 23 for more detailed information on ERLC Shields.





ST1 LIGHT FIXTURE DETAILS

PROJECT NUMBER 2021.048 DE-4 DATE OF ISSUE MARCH 25, 2022 REVISION JUNE 10, 2022

CONSTRUCTION DETAIL NOTES ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES . ALL CONSTRUCTION DETAILS SHALL BI SUPERCEDED BY APPLICABLE MUNICIPAL, COUNTY OR STATE DETAILS UNLESS OTHERWISE NOTED. STRUCTURAL DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY

SHOP DRAWINGS SHALL BE PROVIDED

TO THE TOWNSHIP ENGINEER FOR ALL WALLS AND STRUCTURAL ELEMENTS
PRIOR TO CONSTRUCTION.

SHOP DRAWINGS SHALL BE PROVIDED

TO THE ORDERING OF MATERIALS. . DETAILS ASSUME APPROPRIATE LOAD

BEARING CAPACITY AND COMPACTION OF SOILS. ACTUAL FIELD CONDITIONS

SHALL BE CONFIRMED BY ON-SITE

RESIDENTIAL DEVELOPMENTS SHALL CONFORM TO DETAILS WITHIN THE CURRENT EDITION OF THE RESIDENTIAL

(R.S.I.S.).
ALL CONSTRUCTION DETAILS ARE NOT

TO SCALE (N.T.S.) UNLESS OTHERWISE NOTED.

REVISIONS

THIS DRAWING IS FOR

PERMIT PURPOSES ONLY

NOT FOR CONSTRUCTION UNTIL THIS BOX

HAS BEEN CHECKED AND DATED

THE STATE OF NEW JERSEY REQUIRES

NOTIFICATION BY EXCAVATORS,

DESIGNERS, OR ANY PERSON

PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

engineering

associates

Civil Engineering Consultants Landscape Architects Professional Planners

menloeng.com in f

🥀 732–846–8585 732–846–9439 🚛

Certificate of Authorization: 24GA27951900

OSCAR & ELLA WILF

CAMPUS FOR SENIOR

LIVING-SINGLE-FAMILY

& SOLAR FIELD

DEVELOPMENT

TOWNSHIP OF FRANKLIN

SOMERSET COUNTY

**NEW JERSEY** 

BLOCK 386.07,

TAX MAP SHEET 62

34.46 ACRES

CONSTRUCTION

DETAILS

(4)

THIS WORK PREPARED UNDER MA

DRAWN BY DESIGNED BY

APPROVED BY

LOTS 54.05 & 55.03

☐ CHKD BY: \_\_\_\_ DATE: \_\_

06/10/2

LOT 55.02 ADDITION

SITE IMPROVEMENT STANDARDS

GEOTECHNICAL ENGINEER.

FOR ALL PRECAST STRUCTURES PRIOR



# **Ernst Conservation Seeds**

8884 Mercer Pike Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com

Date: March 02, 2022

#### Native Steep Slope Mix w/Annual Ryegrass - ERNMX-181

Common Name

Annual Ryegrass

Canada Wildrye

Deertongue, Tioga

Purple Coneflower

Calico Aster

Partridge Pea, PA Ecotype

Heath Aster, PA Ecotype

Oxeye Sunflower, PA Ecotype

Wrinkleleaf Goldenrod, PA Ecotype

Virginia Wildrye, Madison-NY Ecotype

Deertongue, Tioga

Big Bluestem, 'Niagara'

Switchgrass, 'Shelter'

Blackeyed Susan

Indiangrass, PA Ecotype

Blue Vervain, PA Ecotype

Swamp Milkweed, PA Ecotype

New England Aster, PA Ecotype

Golden Alexanders, PA Ecotype

Wrinkleleaf Goldenrod, PA Ecotype

Wild Bergamot, Fort Indiantown Gap-PA Ecotype

Common Sneezeweed, Northern VA Ecotype

Flat Topped White Aster, PA Ecotype

Big Bluestem, 'Niagara

Indiangrass, New England 2 Ecotype

Virginia Wildrye, Madison-NY Ecotype

Switchgrass, 'Carthage', NC Ecotype

Autumn Bentgrass, Albany Pine Bush-NY Ecotype

### **Botanical Name** 31.10 % Sorghastrum nutans, New England 2 Ecotype

20.00 % Lolium multiflorum 14.00 % Andropogon gerardii, 'Niagara' 10.00 % Elymus virginicus, Madison-NY Ecotype

7.00 % Flymus canadensis 4.00 % Agrostis perennans, Albany Pine Bush-NY Ecotype 4.00 % Panicum virgatum, 'Carthage', NC Ecotype

3.00 % Panicum clandestinum, Tioga 1.50 % Echinacea purpurea 1.30 % Chamaecrista fasciculata, PA Ecotype 1.20 % Heliopsis helianthoides, PA Ecotype

1.00 % Coreopsis lanceolata Lanceleaf Coreopsis 1.00 % Rudbeckia hirta Blackeyed Susan 0.30 % Monarda fistulosa, Fort Indiantown Gap-PA Ecotype Wild Bergamot, Fort Indiantown Gap-PA Ecotype 0.20 % Asclepias syriaca Common Milkweed

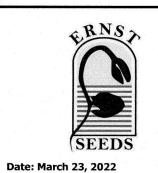
0.20 % Solidago rugosa, PA Ecotype 0.10 % Aster lateriflorus 0.10 % Aster pilosus, PA Ecotype

## 100.00 %

**Seeding Rate:** 60 lb per acre, or 1.5 lb per 1,000 sq ft **Erosion Control & Revegetation** 

The native grass and forb species tolerate poor soils typically found on steep slopes in the eastern United States. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

# NATIVE STEEP SLOPE SEED MIX



### (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com

**Ernst Conservation Seeds** 

8884 Mercer Pike

Meadville, PA 16335

**Riparian Buffer Mix - ERNMX-178** 

**Botanical Name** 20.00 % Elymus virginicus, Madison-NY Ecotype 20.00 % Panicum clandestinum, Tioga 18.00 % Andropogon gerardii, 'Niagara' 18.00 % Sorghastrum nutans, PA Ecotype

10.00 % Panicum virgatum, 'Shelter' 3.00 % Rudbeckia hirta 3.00 % Verbena hastata, PA Ecotyne 2.50 % Asclepias incarnata, PA Ecotype 2.00 % Aster novae-angliae, PA Ecotype

0.10 % Aster umbellatus, PA Ecotype

1.50 % Zizia aurea, PA Ecotype 0.80 % Solidago rugosa, PA Ecotype 0.50 % Monarda fistulosa, Fort Indiantown Gap-PA Ecotype 0.30 % Helenium autumnale, Northern VA Ecotype

**Seeding Rate:** 20 lb per acre with a cover crop at 30 lb per acre (dry sites - grain oats, Jan 1-Aug 1; or, grain rye, Aug 1-Jan 1; moist sites - grain rye year-round)

# Riparian Sites

A diverse mix of upland and wetland grasses and forbs with extensive wildlife and pollinator value. Provides food and cover for many of our songbirds, pheasants, deer and turkey. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

# RIPARIAN BUFFER SEED MIX

CHAIN LINK FENCE DETAIL



#### **Ernst Conservation Seeds** 8884 Mercer Pike

Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com

## Date: March 20, 2022

## Ernst Native/Naturalized Solar Farm Seed Mix - ERNMX-186-1

**Common Name** 

Creeping Red Fescue

Hard Fescue, Gladiator

Blue Fescue, Azure

Sheep Fescue, Variety Not Stated

Kentucky Bluegrass, Appalachian

Autumn Bentgrass, Albany Pine Bush-NY Ecotype

Kentucky Bluegrass, 'Selway'

**Botanical Name** 34.00 % Festuca rubra

33.00 % Festuca ovina, Variety Not Stated 15.00 % Festuca ovina var. duriuscula, Gladiator 5.00 % Festuca ovina var. glauca, Azure 5.00 % Poa pratensis, 'Selway'

5.00 % Poa pratensis, Appalachian 3.00 % Agrostis perennans, Albany Pine Bush-NY Ecotype

**Seeding Rate:** 6 lb per 1,000 sq ft Lawn & Turfgrass Sites; Solar Sites

Provide a 2' clearance between the ground and the solar panels. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will

# NATIVE SOLAR FARM SEED MIX



#### **Ernst Conservation Seeds** 8884 Mercer Pike Meadville, PA 16335

(800) 873-3321 Fax (814) 336-5191 www.ernstseed.com

## Date: August 04, 2022

## **FACW Wetland Meadow Mix - ERNMX-122**

**Botanical Name Common Name** 21.00 % Carex vulpinoidea, PA Ecotype Fox Sedge, PA Ecotype 20.00 % Elymus virginicus, PA Ecotype Virginia Wildrye, PA Ecotype 16.00 % Carex Iurida, PA Ecotype Lurid Sedge, PA Ecotype 12.00 % Carex lupulina, PA Ecotype Hop Sedge, PA Ecotype 12.00 % Carex scoparia, PA Ecotype Blunt Broom Sedge, PA Ecotype 3.00 % Verbena hastata, PA Ecotype Blue Vervain, PA Ecotype 2.40 % Asclepias incarnata, PA Ecotype Swamp Milkweed, PA Ecotype 2.00 % Juncus effusus Soft Rush 2.00 % Zizia aurea, PA Ecotype Golden Alexanders, PA Ecotype 1.60 % Aster novae-angliae, PA Ecotype New England Aster, PA Ecotype 1.30 % Carex stipata, PA Ecotype Awl Sedge, PA Ecotype 1.00 % Bidens cernua, PA Ecotype Nodding Bur Marigold, PA Ecotype 1.00 % Juncus tenuis, PA Ecotype Path Rush, PA Ecotype 0.80 % Solidago rugosa, PA Ecotype Wrinkleleaf Goldenrod, PA Ecotype 0.60 % Verbena urticifolia, PA Ecotype White Vervain, PA Ecotype 0.50 % Carex crinita, PA Ecotype Fringed Sedge, PA Ecotype 0.50 % Eupatorium perfoliatum, PA Ecotype Boneset, PA Ecotype 0.50 % Helenium autumnale, PA Ecotype Common Sneezeweed, PA Ecotype 0.50 % Mimulus ringens, PA Ecotype Square Stemmed Monkeyflower, PA Ecotype 0.30 % Lobelia siphilitica, PA Ecotype Great Blue Lobelia, PA Ecotype 0.30 % Scirpus cyperinus, PA Ecotype Woolgrass, PA Ecotype 0.20 % Alisma subcordatum, PA Ecotype Mud Plantain, PA Ecotype 0.20 % Aster puniceus, PA Ecotype Purplestem Aster, PA Ecotype

# 100.00 %

Seeding Rate: 20 lb per acre, or 1/2 lb per 1,000 sq ft with a cover crop. For a cover crop use one of the following: grain rye (1 Sep to 30 Apr; 30 lbs/acre), Japanese millet (1 May to 31 Aug; 10 lbs/acre), or barnyard grass (1 May to 31 Aug;

10 lbs/acre).

0.20 % Aster umbellatus, PA Ecotype

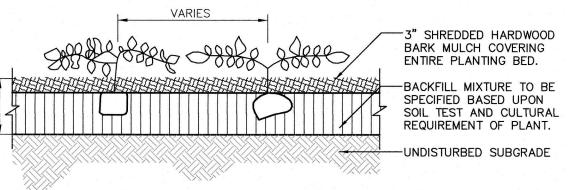
0.10 % Penthorum sedoides, PA Ecotype

The diverse species provide pollinator habitat and erosion control in wet meadows. Excellent for facultative wetland mitigation sites. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Flat Topped White Aster, PA Ecotype

Ditch Stonecrop, PA Ecotype

# FACW WETLAND MEADOW SEED MIX

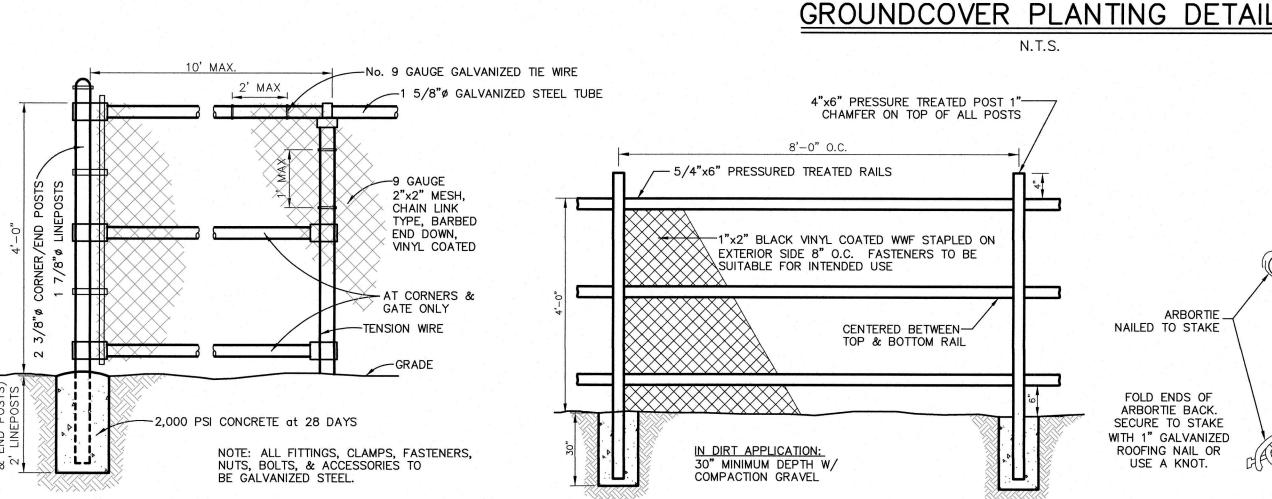


N.T.S.

PLANTING MUST BE GUARANTEED FOR TWO FULL GROWING SEASONS FROM TIME OF FINAL ACCEPT. BY THE TWP. LANDSCAPE ARCHITECT. INSTALL 48" TALL A.M. LEONARD RIGID -

PLASTIC MESH TREE GUARD (OR APPROVED EQUAL), DIAMETER SIZED IN ACCORDANCE

WITH PLANTING SCHEDULE



POST & RAIL FENCE DETAIL

N.T.S.

-ARBORTIE ARBORTIE NAILED TO STAKE FOLD ENDS OF ARBORTIE BACK. SECURE TO STAKE WITH 1" GALVANIZED ROOFING NAIL OR USE A KNOT. STAKING DETAIL

N.T.S.

SEE DECIDUOUS TREE PLANTING DETAIL FOR ADDITIONAL DECIDUOUS TREE INSTALLATION NOTES -3" DOUBLE SHREDDED HARDWOOD BARK MULCH. DO NOT PLACE MULCH AGAINST SKIN. TOP OF DEEPROOT BARRIER MUST BE AT LEASE 1/2" ABOVE GRADE. INSTALL GUIDES IN A STRAIGHT LINE DIRECTLY ALONG THE SIDEWALK. INSTALL LINEAR BARRIER TO EXPECTED LIMIT OF MATURE CANOPY -PROPOSED SIDEWALK 24" DEEP ROOT CONTROL BARRIER ALONG SIDEWALK -APPROVED SUBGRADE GRANITE BLOCK / -BACKFILL MIXTURE TO BE SPECIFIED CONCRETE CURB BASED ON SOIL TEST AND CULTURAL REQUIREMENT OF PLANT. BACKFILL SHALL BE WATERED 12"

CONTRACTOR SHALL PARTIALLY FILL W/ WATER, A
DEDDECEMBER OF THE APPROXIMATELY

PROJECT PRIOR TO PLANTING TO DETERMINE IF
THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T
PERCOLATE MEASURE MIST OF ATTACHMENT.

REPRESENTATIVE # OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF

PERCOLATE, MEASURE MUST BE TAKEN TO ASSURE

TIES, & WRAP AT END OF GUARANTEE PERIOD. ALL

GROWING SEASON FROM TIME OF FINAL ACCEPT. BY THE TWP. LANDSCAPE ARCHITECT.

PROPER DRAINAGE BEFORE PLANTING

NOTE: ON SLOPES,

ARBORTIF-

NAILED TO

STAKE

**SECTION** 

UNDISTURBED

SUBGRADE -

PLACE SINGLE

STAKE DOWNHILL

-HARDWOOD STAKE

-CENTER LEADER SHALL NOT BE CUT

-INSTALL STAKES WITH "ARBOR

STAKES PER TREE. TIES SHALL BE

-CUT & REMOVE TWINE, BURLAP AND

WIRE FROM TOP 1/3' OF ROOT BALL

BASKET AROUND ROOTBALL; CUT AND

-3" SHREDDED HARDWOOD BARK MULCH

COVERING ENTIRE PLANTING BED. DO

NOT PLACE MULCH AGAINST STEM

BACKELL MIXTURE TO BE SPECIFIED

BE WATERED 12" AT A TIME, WHILE

- DRIVE STAKE 2' MINIMUM INTO

UNDISTURBED SOIL OUTSIDE

FABRIC WRAPPED ALL SIDES

BASED ON SOIL TEST AND CULTURAL

REQUIREMENT OF PLANT BACKFILL SHALL

4" & FLEXIBLE PERFORATED HOPE TREE

DRAIN TO STORM WATER SYSTEM WITH

CUT AND REMOVE ALL TWINE

BURLAP, AND WIRE FROM TOP

1/3' OF ROOTBALL, IF PLANT IS

SHIPPED WITH A WIRE BASKET

AROUND ROOTBALL; CUT AND

RELATION TO FINISHED GRADE AS IT BORE TO THE GRADE IN THE NURSERY. TOP OF ROOT BALL

3" DOUBLE SHREDDED HARDWOOD

BARK MULCH COVERING ENTIRE PLANTING BED. DO NOT PLACE

SPECIFIED BASED UPON SOIL

BACKFILL SHALL BE WATERED,

12" AT A TIME, WHILE PLANTING.

TEST AND CULTURAL

REQUIREMENT OF PLANT.

UNDISTURBED SUBGRADE

REMOVE TOP 8" OF WIRE.

SHRUB SHALL BEAR SAME

SHALL NOT BE BURIED.

MULCH AGAINST STEM.

-3" EARTH SAUCER

-FINISHED GRADE

NOTE: TREE DRAIN TO BE USED WHERE SOIL CONDITIONS WARRANT.

CLEAN CRUSHED STONE AND FILTER

-STAKES TO BE 1/2 TO 1/3 HT. OF TREE MEASURED FROM GROUND.

TREE-TIES" OR APPROVED EQUAL. (3)

OR DAMAGED.

LIGHTLY FITTING

REMOVE BASKET

-3" EARTH SAUCER

PLANTING HOLE

(UP TO 10' HT.)

EVERGREEN TREE PLANTING DETAIL

N.T.S.

SHRUB PLANTING DETAIL

- CONTRACTOR SHALL PARTIALLY FILL W/ WATER, A REPRESENTATIVE # OF PITS IN EACH AREA OF THE PROJECT

PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURE MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.

CONTRACTOR SHALL REMOVE STAKING, ARBOR TREE TIES, & WRAP AT END OF GUARANTEE PERIOD.

- CONTRACTOR SHALL PARTIALLY FILL W/ WATER, A

REPRESENTATIVE # OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS

MEASURE MUST BE TAKEN TO ASSURE PROPER DRAINAGE

ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE,

-ARBOR TIE

STREET TREE PLANTING WITH 24' DEEP ROOT CONTROL BARRIER

N.T.S.

AT A TIME, WHILE PLANTING.

# PLANTING NOTES

THE FOLLOWING RECOMMENDED PLANTING PERIODS SHOULD BE ADHERED TO WHENEVER POSSIBLE: 1) BROADLEAF AND CONIFEROUS EVERGREEN TREES, SHRUBS, VINES AND GROUND COVERS SHALL BE PLANTED BETWEEN AUGUST 15th AND SEPTEMBER 15th AND BETWEEN APRIL 15th AND MAY 15th, DECIDUOUS TREES, SHRUBS, VINES, GROUND COVERS AND PERENNIALS SHALL BE PLANTED BETWEEN OCTOBER 15th AND NOVEMBER 15th AND BETWEEN MARCH 15th AND MAY 15th. THESE PLANTING SEASONS MAY BE EXTENDED OR SHORTENED ACCORDING TO PREVAILING WEATHER CONDITIONS, SOIL CONDITIONS, AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.

2) THE PLANTING OPERATION INCLUDES ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, SHIPPING, INCIDENTALS AND CLEAN—UP

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.

BY THE CONTRACTOR FOR THE INSTALLATION OF THE ENTIRE LANDSCAPE PLAN.

4) THE CONTRACTOR WILL EXAMINE ALL FIELD CONDITIONS FOR EXACT LOCATIONS OF UTILITIES, DRAINAGE SYSTEMS AND IRRIGATION SYSTEMS AND ADJUST PROPOSED PLANTINGS ACCORDINGLY. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER DEPTH OF TOPSOIL IN ALL AREAS AND THE PROVISION OF POSITIVE DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE CLIENT, ENGINEER, AND/OR LANDSCAPE ARCHITECT OF ANY DETRIMENTAL DRAINAGE HAZARD, INCLUDING BUT NOT LIMITED TO INSUFFICIENT TOPSOIL, ETC. PRIOR TO THE INSTALLATION OF ANY MATERIALS, INCLUDING LAWN AREAS.

5) THE CONTRACTOR WILL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. STATE CONDITION AND SUBMIT A PROPOSAL FOR CORRECTION IF FEASIBLE

6) PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. QUALITY AND SIZE OF PLANTS, SPREAD OR ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE MOST RECENT ANSI 760 "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

7) PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

8) GUARANTEE OF PLANT GROWTH: ALL PLANTS AND TREES SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FOR TREES AND SHRUBS FROM THE DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY TOWNSHIP. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THE ABOVE STATED.

9) INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.

10) IF PLANT AVAILABILITY IS RESTRICTED, SUBSTITUTIONS MAY BE MADE WITHIN PLANT TYPE TO MAINTAIN SIMILAR GROWTH AND ORNAMENTAL QUALITIES UPON NOTIFICATION AND APPROVAL BY THE LANDSCAPE ARCHITECT.

11) PLANT LOCATIONS SHOWN ARE DIAGRAMMATIC. ALL PLANTS SHOWN SEMI-MATURE SIZE ON PLANS. THE STAKING LAYOUT OF ALL PLANTINGS WILL BE INSPECTED BY THE LANDSCAPE ARCHITECT PRIOR INSTALLATION AS REQUESTED BY OWNER. 12) AREAS DISTURBED BY LANDSCAPE OPERATIONS SHALL BE GRADED TO MATCH EXISTING. TOPSOIL AND SEED OR SOD AS

13) NO PLANT, EXCEPT GROUND COVERS AND FOUNDATIONS PLANTS SHALL BE PLANTED LESS THAN TWO (2) FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

14) ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL FREE OF DRY SOD, STIFF CLAY, LITTER, STONES IN EXCESS OF 1"Ø, ETC., SHALL BE USED

15) SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT THE CENTER OF THE PIT

16) IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE RÉMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHÍCH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER TO TREES MUST NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED. TREES WITH THE CENTRAL LEADER PRUNED WILL BE REJECTED.

17) EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.

18) ALL TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE TIED, WHILE SMALLER TREES SHALL BE STAKED. ARBOR TREE TIES AND STAKES SHALL BE INSTALLED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ARBOR TREE TIES ONE (1) YEAR FROM DATE OF FINAL

19) THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND IF REQUIRED BY TOWNSHIP.

20) MULCH FOR PLANTING BEDS SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED ON THÉ PLANS AND SHALL HAVE NO LEAVES. YOUNG GREEN GROWTH, BRANCHES, TWIGS GREATER IN DIAMETER OF 1/2"∅ WEEDS, SHAVINGS OR FOREIGN MATERIAL SUCH AS STONES, ETC. SHALL BE MIXED WITH THE MULCH. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS WITH A COMPACTED DEPTH OF 3". NO MULCH SHALL BE PLACED AGAINST PLANT

21) WATER APPLIED TO SEEDED OR SODDED AREAS, PLANTS OR PLANTED AREAS SHALL BE FREE FROM IMPURITIES INJURIOUS TO VEGETATION AND APPLIED AT A RATE OF FIVE GALLONS OF WATER PER SQUARE YARD OF PLANT PIT.

IT IS VERY RISKY TO TRANSPLANT THE FOLLOWING LIST OF TREES BARE ROOT OR B&B IN THE FALL:

PLATANUS ACERIFOLIA BETULA VARIETIES PRUNUS-ALL STONE FRUITS PYRUS-ALL PEARS QUERCUS-ALL OAKS CARPINUS VARIETIES CORNUS FLORIDA & VARS SALIX-WEEPING VARS CRATAEGUS VARIETIES STYRAX JAPONICA TILIA TOMENTOSA **KOELREUTERIA** ZELKOVA VARIETIES LIQUIDAMBAR STYRACIFLUA LIRIODENDRON TULIPIFERA

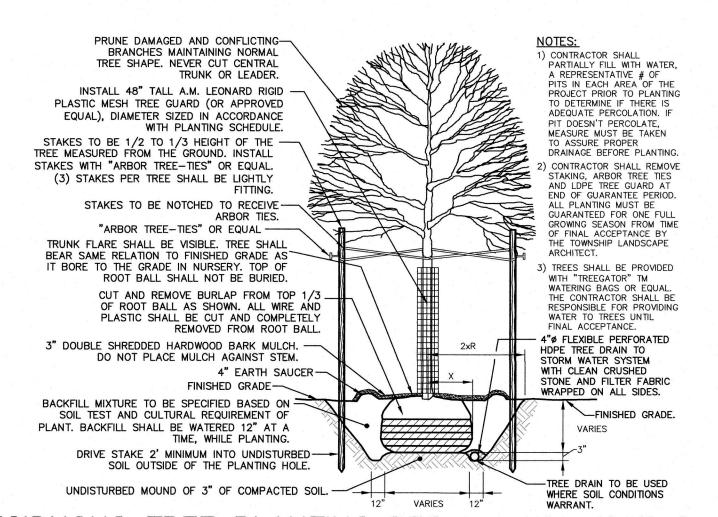
THE CONTRACTOR ASSUMES RESPONSIBILITY FOR PLANT SURVIVAL OF THESE MATERIALS IF MOVED DURING THE FALL

23) TREES TO REMAIN ON-SITE TO BE SELECTIVELY THINNED AND PRUNED REMOVING ALL DEAD. AND DISEASED LIMBS WHILE PROTECTED BY FENCING DURING CONSTRUCTION (SEE DETAIL). FENCE TO BE MAINTAINED DURING CONSTRUCTION BY

24) THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.

25) ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS. SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN ANY SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30" ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN ANY SIGHT TRIANGLE SHALL BE PRUNED AS MENTIONED ABOVE.

26) SEE DETAIL DRAWINGS FOR TYPICAL PLANTING DETAILS.



DECIDUOUS TREE PLANTING DETAIL WITH TREE GUARD

N.T.S.

CONSTRUCTION DETAIL NOTES

ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL CONSTRUCTION DETAILS SHALL BE SUPERCEDED BY APPLICABLE MUNICIPAL, COUNTY OR STATE DETAILS UNLESS OTHERWISE NOTE

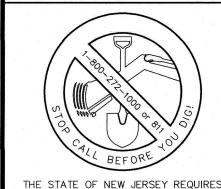
STRUCTURAL DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONL SHOP DRAWINGS SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER FOR ALL WALLS AND STRUCTURAL ELEMENTS

PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL PRECAST STRUCTURES PRIOR TO THE ORDERING OF MATERIALS. DETAILS ASSUME APPROPRIATE LOAD BEARING CAPACITY AND COMPACTION OF SOILS, ACTUAL FIELD CONDITIONS SHALL BE CONFIRMED BY ON-SITE GEOTECHNICAL ENGINEER. RESIDENTIAL DEVELOPMENTS SHALL CONFORM TO DETAILS WITHIN THE CURRENT EDITION OF THE RESIDENTIAL

SITE IMPROVEMENT STANDARDS ALL CONSTRUCTION DETAILS ARE NOT TO SCALE (N.T.S.) UNLESS OTHERWISE

REVISIONS LOT 55.02 ADDITION 06/10/2 DEP REVS 08/05/22

THIS DRAWING IS FOR PERMIT PURPOSES ONLY IOT FOR CONSTRUCTION UNTIL THIS BOX HAS BEEN CHECKED AND DATED



CHKD BY: \_\_\_\_ DATE: \_

DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.



Civil Engineering Consultants
Landscape Architects **Professional Planners** 

261 Cleveland Avenue lighland Park, NJ 0890

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OSCAR & ELLA WILF CAMPUS FOR SENIOR LIVING-SINGLE-FAMIL & SOLAR FIELD

DEVELOPMENT

, 732-846-8585 732-846-9439

Certificate of Authorization: 24GA27951900

TOWNSHIP OF FRANKLIN SOMERSET COUNTY **NEW JERSEY** 

BLOCK 386.07 LOTS 54.05 & 55.03 TAX MAP SHEET 62 34.46 ACRES

CONSTRUCTION DETAILS (5)

DRAWN BY DESIGNED BY APPROVED BY THIS WORK PREPARED LINDER MY IMMEDIATE SUPER PROFESSIONAL ENGINEER

PROJECT NUMBER DE-5 2021.048 DATE OF MARCH 25, 2022 REVISION AUGUST 5, 2022

NJPE# 40262

