

SHEETPILE WALL WITH ARMOR STONE FACE  
TOTAL LENGTH: 110 LF  
TOP OF WALL ELEV: 587.0  
DEPTH AND SIZING OF SHEETING TO BE DETERMINED DURING DETAILED DESIGN PHASE

STAIR ACCESS TO BEACH  
TOTAL LENGTH: 28 LF

SWINGING BENCH OFF OF BOARDWALK FOR ACCESSIBLE ACCESS (3)

6' WIDE ACCESSIBLE BOARDWALK TO BEACH ACCESS  
TOTAL LENGTH: 78 LF

ACCESSIBLE WOOD BOARDWALK TRANSITION DECK TO ANCHOR MOBI-MAT SYSTEM AS NEEDED

EXISTING ELECTRICAL POLE  
BENCH ON CONCRETE BASE (4)

SWINGING BENCH IN SAND (2)

ORGANIC FOOT TRAIL TO BEACH  
GRADE 580 CY OF EXISTING SAND AND INSTALL 1,450 CY OF NEW CLEAN SAND TO RESTORE DUNE

LARGE BENCH  
BENCH ON COMMUNITY DECK (4)  
FLAG POLE IN PLANTING BED

RE-MARK PARKING LOT 48 SPACES

PROPOSED SIDEWALK EXPANSION  
ACCESSIBLE PICNIC TABLE

ACCESSIBLE PARKING 4 SPACES

PROPOSED PLANTING BED

GOLF CART PARKING 4 SPACES

EXISTING BUILDING BIKE PARKING

REUSE EXISTING PLAYGROUND EQUIPMENT

PROPOSED RAIN GARDEN

BENCH IN PLAY AREA (2)

SMALL PICNIC SHELTER (3)  
1 PICNIC TABLE AND 1 GRILL PER SHELTER  
FIRST SHELTER IS ACCESSIBLE

6' WIDE FLEXIBLE BOARDWALK AROUND PLAYGROUND MEETS ADA STANDARDS  
TOTAL LENGTH: 305 LF

ACCESSIBLE SURFACING FOR PLAY AREA

**QUANTITY TABLES**

**PAVING**

CONCRETE PAVING	1,760 SF
ASPHALT PAVING	350 SF

**SHEETPILE WALL**

SHEETPILE WALL	110 LF
ARMOR STONE	260 CY

**EARTHWORK**

CUT	580 CY
FILL	1,450 CY
NET FILL	870 CY

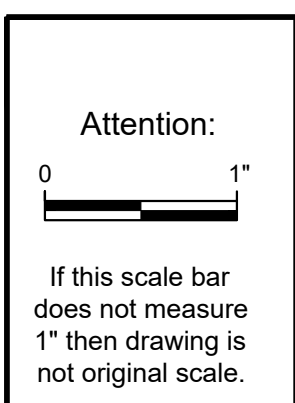
**BOARDWALK AND OVERLOOK**

BOARDWALK	2,500 SF
OVERLOOK	1,380 SF

**LEGEND**

	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	PR. MAJOR CONTOUR
	PR. MINOR CONTOUR
	SURVEYED WATER SURFACE
	EX. OVERHEAD UTILITIES
	PR. SHEETPILE WALL
	PR. ARMOR STONE
	UTILITY POLE AND GUY WIRE
	ACCESSIBLE PARKING
	ACCESSIBLE PLAY SURFACING

NOTES:  
SURVEY CONDUCTED BY ROWE PROFESSIONAL SERVICES COMPANY  
HORIZONTAL DATUM: MICHIGAN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD83  
VERTICAL DATUM: NAVD88



**DRAFT**

Designed: #####  
Drawn: AT  
Checked: #####  
Approved: #####  
P.E. No: ###  
GEI Project 2203894



TOWNSHIP OF ARCADIA  
PO BOX 318  
ARCADIA, MI 49613

**SUNSET STATION PARK REVITALIZATION AND DUNE RESTORATION**

ARCADIA SUNSET STATION  
LAKE STREET  
ARCADIA, MI 49613

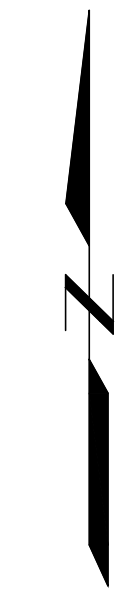
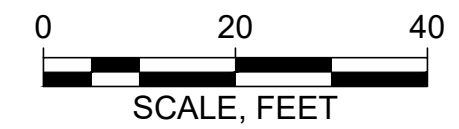
NO	DATE	ISSUE/REVISION	APP
2	11/30/2022	60% DESIGN	
1	11/18/2022	60% DESIGN DRAFT	

SHEET NAME  
**PROPOSED CONDITIONS**

DWG NO.  
**C-04**  
SHEET NO.  
**5**

**PROGRESS 60%**

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RESTORE DUNE BY PLANTING WITH NATIVE PLUGS AND SEEDMIX  
 TOTAL AREA: 16,500 SF  
 NOTE:  
 SEED WITH NATIVE SEEDMIX AND COVER WITH C-125BM EROSION CONTROL BLANKET

PLANT WITH NATIVE PLUG MATRIX  
 TOTAL AREA: 270 SF

PLANT WITH NATIVE PLUG MATRIX  
 TOTAL AREA: 260 SF

INSTALL RAINGARDEN  
 PLANT WITH NATIVE PLUG MATRIX  
 TOTAL AREA: 1,200 SF

INSTALL 20 2-IN DIA NATIVE TREES

**QUANTITY TABLES  
 RESTORATION**

BANK RESTORATION	16,600 SF
PLANTING BEDS	820 SF
RAIN GARDEN	1,200 SF

**LEGEND**

	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	PR. MAJOR CONTOUR
	PR. MINOR CONTOUR
	SURVEYED EDGE OF WATER
	EX. OVERHEAD UTILITIES
	PR. SHEETPILE WALL
	UTILITY POLE AND GUY WIRE
	ACCESSIBLE PARKING
	ACCESSIBLE PLAY SURFACING
	NATIVE PLUG MATRIX AND SEEDMIX
	NATIVE PLUG MATRIX
	RAIN GARDEN

**NATIVE SHRUBS AND TREES**

SCIENTIFIC NAME	COMMON NAME	QTY.
<b>SHRUBS</b>		
<i>Arctostaphylos uva-ursi</i>	Bearberry	150
<i>Cornus sericea</i>	Red Osier Dogwood	100
<i>Dasiphora fruticosa</i>	Shrubby Cinquefoil	50
	<b>TOTAL</b>	<b>300</b>
<b>TREES</b>		
<i>Betula papyrifera</i>	Paper Birch	8
<i>Populus balsamifera</i>	Balsam Poplar	7
<i>Quercus rubra</i>	Red Oak	5
	<b>TOTAL</b>	<b>20</b>

**NATIVE SEEDMIX**

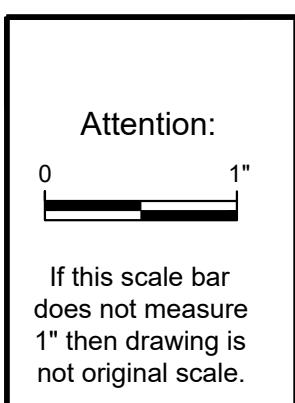
SCIENTIFIC NAME	COMMON NAME	PLS Oz PER ACRE
<i>Asclepias syriaca</i>	Common Milkweed	1
<i>Asclepias tuberosa</i>	Butterfly Milkweed	2
<i>Calamovilfa longifolia</i>	Sand Reed Grass	24
<i>Campanula rotundifolia</i>	Harebell	0.25
<i>Coreopsis lanceolata</i>	Sand Coreopsis	8
<i>Koeleria macrantha</i>	June Grass	2
<i>Liatris aspera</i>	Rough Blazing Star	1
<i>Mondarda punctata</i>	Horse Mint	1
<i>Panicum virgatum</i>	Switch Grass	8
<i>Penstemon digitalis</i>	Foxglove Beard Tongue	1.50
<i>Penstemon hirsutus</i>	Hairy Beard Tongue	1.50
<i>Rudbeckia hirta</i>	Black-Eyed Susan	1.50
<i>Schizachyrium scoparium</i>	Little Bluestem	6
<i>Tradescantia ohioensis</i>	Common Spiderwort	40
	<b>Total PLS Ounces Per Acre</b>	<b>99.25</b>
	<b>Total PLS Pounds Per Acre</b>	<b>6.20</b>
<i>Avena sativa</i>	Seed Oats	480
<i>Lolium multiflorum</i>	Annual Rye	320

**NATIVE PLUG MATRIX**

SCIENTIFIC NAME	COMMON NAME	QTY.
<i>Anemone multifida</i>	Red Anemone	100
<i>Asclepias tuberosa</i>	Butterfly Milkweed	150
<i>Cakile edentula</i>	Sea Rocket	100
<i>Campanula rotundifolia</i>	Harebell	100
<i>Coreopsis lanceolata</i>	Sand Coreopsis	100
<i>Lathyrus japonicus</i>	Beach Pea	150
<i>Lithospermum canescens</i>	Hoary Puccoon	100
<i>Mondarda punctata</i>	Horsemint	100
<i>Potentilla anserina</i>	Silverweed Cinquefoil	100
<i>Schizachyrium scoparium</i>	Little Bluestem	350
<i>Solidago simplex</i>	Gillman's Goldenrod	150
	<b>TOTAL</b>	<b>1500</b>

**PROGRESS 60%**

NOTES:  
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SHEET NAME  
**RESTORATION PLAN**

DWG NO.  
**C-07**  
 SHEET NO.  
**8**

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