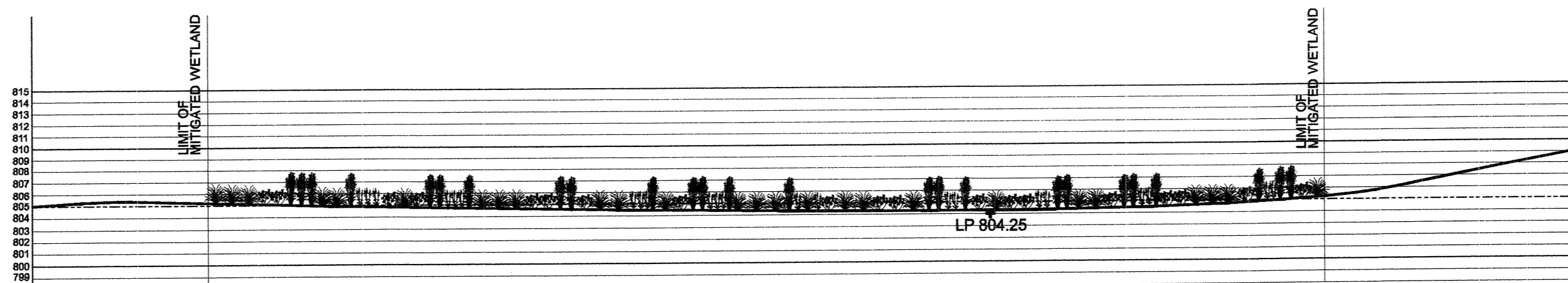
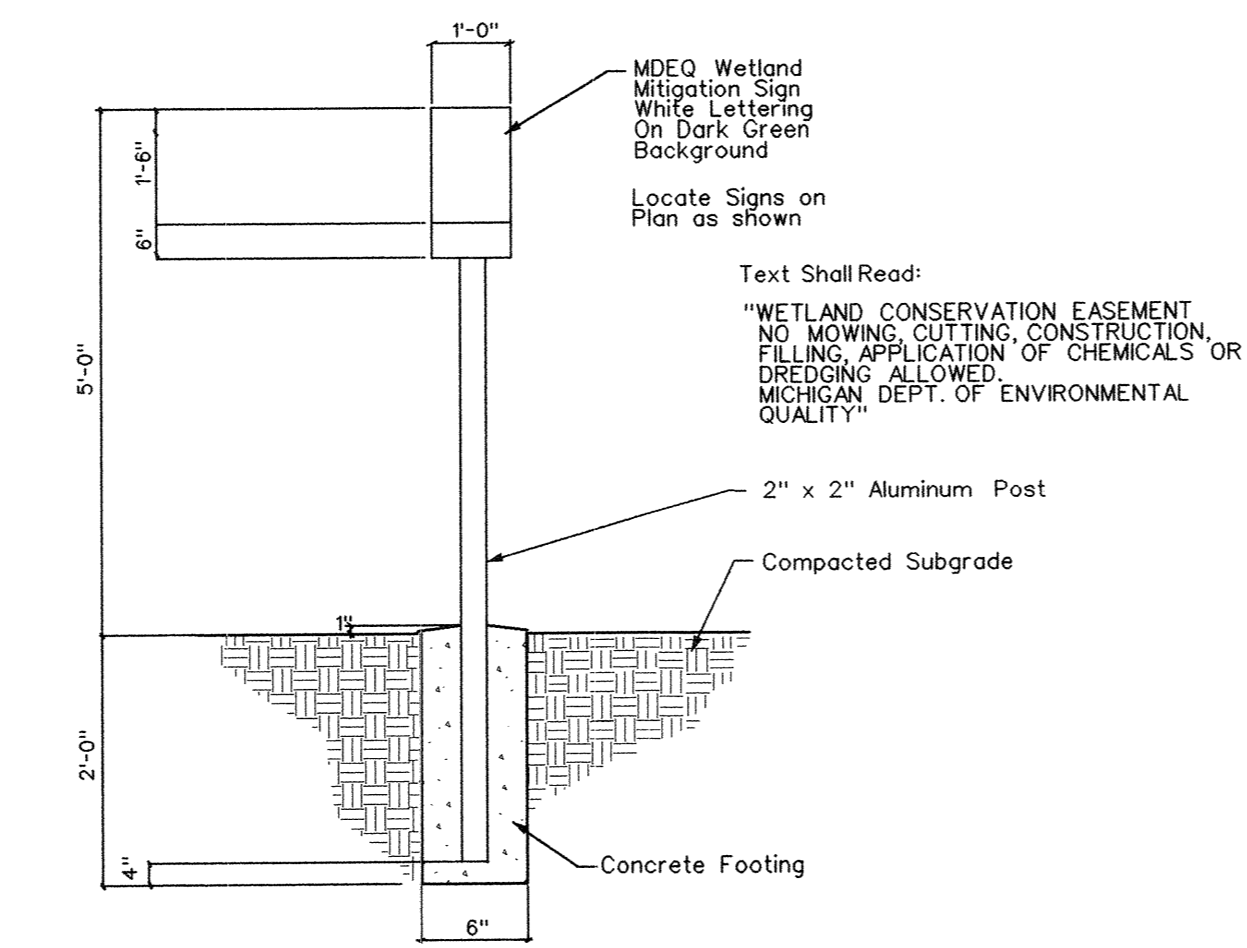


Section A-A'—Water Level = 805
Scale: 1" = 10'-0"



Section B-B'—Water Level = 805
Scale: 1" = 10'-0"



1 Wetland Mitigation Sign
Scale: N.T.S.

Notes:

- All plants shall be native to this region unless otherwise noted. Any proposed substitutions must be approved by ENGINEER.
- All plants to comply with recommendations and requirements of ANSI 260.1, "American Standard for Nursery Stock", and state and federal laws.
- Plant material shall be maintained during the warranty period by the CONTRACTOR. Plant material dead or dying shall be removed and replaced by CONTRACTOR during that period at no cost to OWNER.
- CONTRACTOR shall verify all utility locations prior to installing plants to ensure there will be no interference.
- Layout of Wetland and Shoreline plug areas shall be staked by CONTRACTOR and reviewed with ENGINEER in the field.
- All seeded areas shall be seeded with temporary overseed to stabilize soils.
- Staking of trees and shrubs locations shall be done by CONTRACTOR and reviewed with the ENGINEER in the field prior to planting.
- Staking of Wetland Mitigation Habitat Structure locations shall be done by CONTRACTOR and reviewed with the ENGINEER in the field prior to seeding.
- If seeding does not occur before 1 October 2005, CONTRACTOR shall install clean chopped straw from annuals to protect exposed earth at the rate of two (2) tons per acre. Disc in two directions to cut straw into soil as necessary to prevent its loss.
- CONTRACTOR shall rough grade Mitigated Wetland to plus or minus 3 inches of proposed grades.
- All Wetland Mitigation Signs are to face away from the wetland.

Wetland Mitigation Seeding & Plugging Legend

- WMS - Wetland Mitigation Seed
- Log Fall (8)
- Stump (2)
- MDEQ Wetland Mitigation Signs (8) - Refer to Detail 1 on this sheet

Wetland Mitigation Habitat Structures

- Boulder/Rock Cluster (6)
- Log Fall (8)
- Stump (2)
- MDEQ Wetland Mitigation Signs (8) - Refer to Detail 1 on this sheet

Plant Schedule - Wetland Mitigation

Qty.	Botanical Name	Common Name	Size	Depth	Spacing	Wet. Cat.	Area
Plugs							
790	<i>Asclepias incarnata</i>	Swamp Milkweed	Plug	Shoreline-3"	1'-3" o.c.	OBL	
152	<i>Bidens cernuus</i>	Bidens	Plug	Shoreline-3"	1'-3" o.c.	OBL	
304	<i>Calamagrostis canadensis</i>	Blue Joint Grass	Plug	Shoreline-6"	1'-3" o.c.	OBL	
304	<i>Carex hystericina</i>	Porcupine Sedge	Plug	Shoreline-3"	1'-3" o.c.	OBL	
942	<i>Carex stipata</i>	Awl-fruited Sedge	Plug	Shoreline-3"	1'-3" o.c.	OBL	
942	<i>Carex stricta</i>	Tussock Sedge	Plug	Shoreline	1'-3" o.c.	OBL	
1094	<i>Carex vulpinoidea</i>	Fox Sedge	Plug	Shoreline-3"	1'-3" o.c.	OBL	
304	<i>Eleocharis obtusa</i>	Blunt Spike Rush	Plug	Shoreline-3"	1'-3" o.c.	OBL	
790	<i>Eupatorium maculatum</i>	Spotted Joe-pye-weed	Plug	Shoreline	1'-3" o.c.	OBL	
304	<i>Eupatorium perfoliatum</i>	Boneset	Plug	Shoreline-3"	1'-3" o.c.	FACW*	Islands
304	<i>Helianthus autumnale</i>	Sneezeweed	Plug	Shoreline-3"	1'-3" o.c.	FACW*	Islands
469	<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	Plug	Shoreline-12"	1'-3" o.c.	FACW*	Islands
942	<i>Iris virginica</i>	Blue Flag Iris	Plug	Shoreline-12"	1'-3" o.c.	OBL	
304	<i>Juncus effusus</i>	Soft-stemmed Bulrush	Plug	Shoreline	1'-3" o.c.	FAC	Islands
790	<i>Liatris spicata</i>	Marsh Blazing Star	Plug	Shoreline	1'-3" o.c.	FACW	Islands
608	<i>Onoclea sensibilis</i>	Sensitive Fern	Quart	Shoreline-3"	1'-3" o.c.	FACW*	Islands
456	<i>Rudbeckia laciniata</i>	Cut-leaved Coneflower	Plug	Shoreline-6"	1'-3" o.c.	FACW*	
942	<i>Scirpus atrovirens</i>	Dark Green Rush	Plug	Shoreline-12"	1'-3" o.c.	OBL	
942	<i>Scirpus cyperinus</i>	Wool Grass	Plug	Shoreline-12"	1'-3" o.c.	OBL	
942	<i>Scirpus pendulus</i>	Bulrush	Plug	Shoreline-3"	1'-3" o.c.	OBL	
942	<i>Spartina pectinata</i>	Prairie Cordgrass	Plug	Shoreline-6"	1'-3" o.c.	FACW*	
304	<i>Spiraea alba</i>	Meadowsweet	Plug	Shoreline-3"	1'-3" o.c.	FACW*	
782	<i>Verbena hastata</i>	Blue Vervain	Plug	Shoreline-3"	1'-3" o.c.	FACW*	
304	<i>Vernonia missurica</i>	Ironweed	Plug	Shoreline-3"	1'-3" o.c.	FAC*	Islands

Wetland Mitigation: clay to clay loam, pH range 5.6-7

Temporary Matrix

Botanical Name	Common Name	Rate/Acre	% Native MI Seed
Grass: Planting rate per acre = 43 lbs/acre			
<i>Avana sativa</i>	Seed Oats	40.00 lbs/ac	
<i>Lolium multiflorum</i>	Annual Rye	03.00 lbs/ac	

Forbs: Planting rate per acre = 4 lbs/acre (Annual non-natives)

<i>Coreopsis tinctoria</i>	Dwarf Plains Coreopsis		
<i>Deschmum spinos</i>	Rocket Larkspur		
<i>Eschscholzia californica</i>	California Poppy		
<i>Gallardia aristata</i>	Annual Gallardia		
<i>Gypsophila elegans</i>	Annual Baby's Breath		
<i>Iberis umbellata</i>	Annual Candytuft		
<i>Papaver aristata</i>	Corn Poppy		
<i>Stene armeria</i>	Catchfly		

Transition Matrix

Botanical Name	Common Name	Rate/Acre	% Native MI Seed
Grass: Planting rate per acre = 1 lbs/acre			
<i>Elymus canadensis</i>	Canada Wild Rye	1 lbs/ac	100%

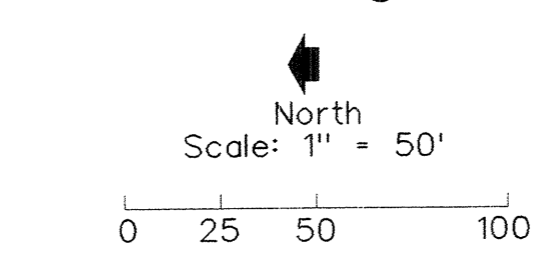
Permanent Matrix:

Botanical Name	Common Name	Rate/Acre	% Native MI Seed
Grass: Planting rate per acre = 3 lbs/acre			
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.063 lbs/ac	100%
<i>Carex cristata</i>	Crested Oval Sedge	0.125 lbs/ac	100%
<i>Carex hystericina</i>	Porcupine Sedge	0.125 lbs/ac	100%
<i>Carex stipata</i>	Awl-fruited Sedge	0.125 lbs/ac	100%
<i>Carex stricta</i>	Tussock Sedge	0.125 lbs/ac	100%
<i>Carex vulpinoidea</i>	Fox Sedge	0.125 lbs/ac	100%
<i>Eleocharis erythropoda</i>	Spike-Rush	0.125 lbs/ac	100%
<i>Eleocharis obtusa</i>	Blunt Spike Rush	0.125 lbs/ac	100%
<i>Eleocharis palustris</i>	Spike Rush	0.375 lbs/ac	100%
<i>Glyceria striata</i>	Fowl Manna Grass	0.063 lbs/ac	100%
<i>Juncus dudleyi</i>	Dudley's Rush	0.125 lbs/ac	100%
<i>Juncus effusus</i>	Soft-stemmed Bulrush	0.125 lbs/ac	100%
<i>Leersia oryzoides</i>	Rice-cut Grass	0.250 lbs/ac	100%
<i>Panicum virgatum</i>	Switch Grass	1.000 lbs/ac	100%
<i>Scirpus atrovirens</i>	Dark Green Rush	0.125 lbs/ac	100%
<i>Scirpus cyperinus</i>	Wool Grass	0.031 lbs/ac	100%
<i>Scirpus pendulus</i>	Bulrush	0.125 lbs/ac	100%

Forbs: Planting rate per acre = 10 lbs/acre

<i>Angelica atropurpurea</i>	Angelica	0.125 lbs/ac	100%
<i>Asclepias incarnata</i>	Swamp Milkweed	0.563 lbs/ac	100%
<i>Aster novae-angliae</i>	New England Aster	0.250 lbs/ac	100%
<i>Bidens cernuus</i>	Bidens	0.125 lbs/ac	100%
<i>Eupatorium maculatum</i>	Spotted Joe-pye-weed	0.063 lbs/zc	100%
<i>Eupatorium perfoliatum</i>	Boneset	0.063 lbs/ac	100%
<i>Helianthus autumnale</i>	Sneezeweed	0.375 lbs/ac	100%
<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	0.188 lbs/ac	100%
<i>Rudbeckia laciniata</i>	Cut-leaved Coneflower	0.313 lbs/ac	100%
<i>Solidago rigida</i>	Riddell's Goldenrod	0.063 lbs/ac	100%
<i>Verbena hastata</i>	Blue Vervain	0.188 lbs/ac	100%

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DRAWN BY: S. FAIKS
SHEET CHKD BY: J. DAS, A. KEVRICK
CROSS CHKD BY:
APPROVED BY:
DATE: DECEMBER, 2005

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MALLETT'S CREEK REGIONAL DETENTION
BASIN IMPROVEMENTS IN BROWN PARK

WETLAND MITIGATION PLAN

ANDREA S. PHILLIPS
LANDSCAPE ARCHITECT
NO. 948

PROJECT NO. 38982
FILE NAME: PL_WETLAND
SHEET NO. M2