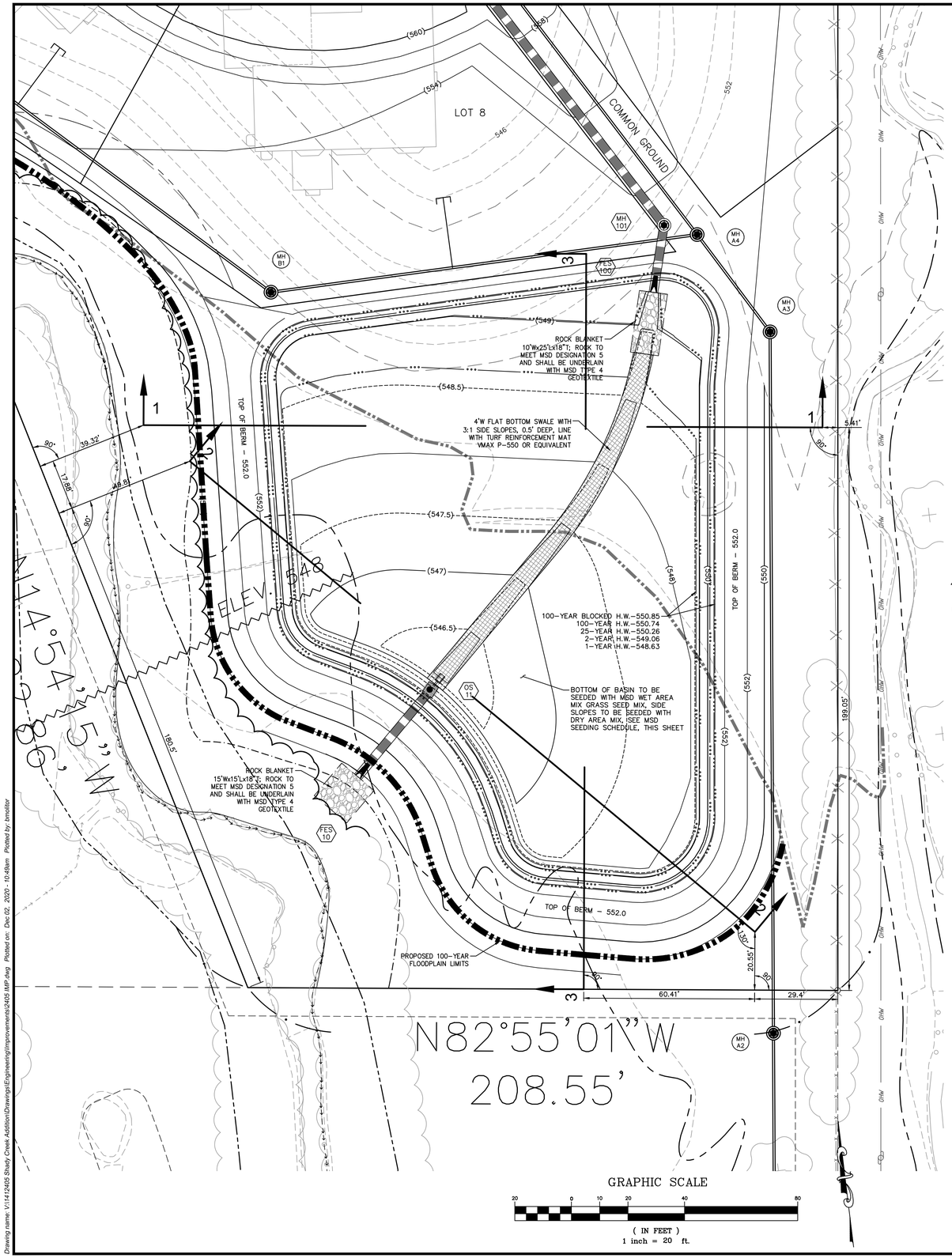
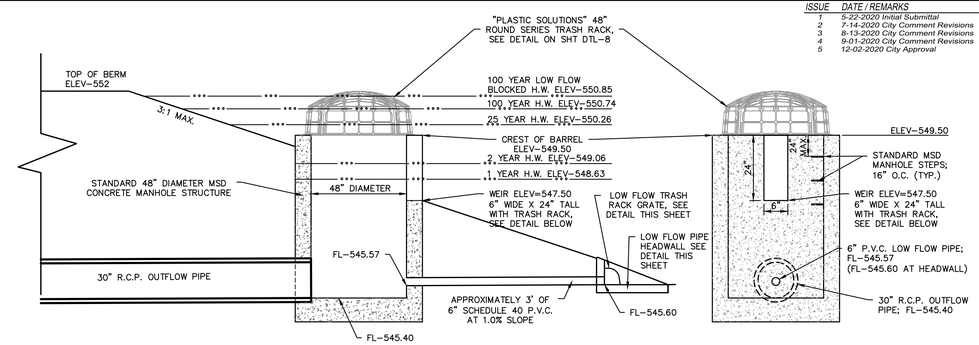
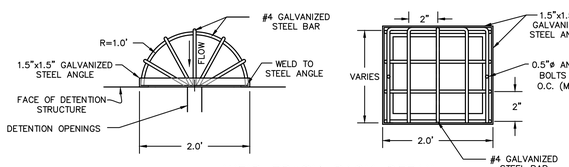




OUTFALL STRUCTURE 11 SIDE AND FRONT SECTION



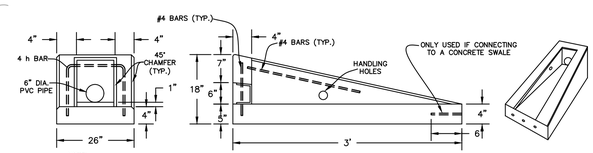
WEIR TRASH RACK DETAIL

N.T.S.

7" x 7" STAINLESS STEEL GUARD (OR APPROVED EQUAL)
AVAILABLE FROM "WILDLIFE CONTROL SUPPLIES"
877-684-7262
WWW.WILDLIFECONTROLSUPPIES.COM
ACTUAL DIMENSIONS – 6-3/4"W x 6-3/4"L x 4-3/4"H
MESH SIZE – 3/8" STAINLESS STEEL MESH

TRASH RACK TO BE SECURED TO FRONT OF STRUCTURE AROUND LOW FLOW ORIFICE AT A MINIMUM OF FOUR LOCATIONS WITH SELF-TAPPING CONCRETE SCREWS OR CONCRETE LAG SHIELDS AND BOLTS

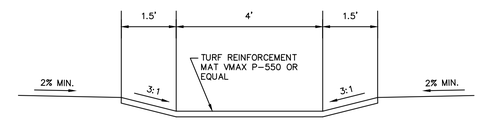
LOW FLOW TRASH RACK DETAIL



NOTE:
REFER TO ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWING STANDARD 2382-1 FOR ADDITIONAL INFORMATION.

LOW FLOW PIPE HEADWALL DETAIL

N.T.S.



4' WIDE FLAT BOTTOM DITCH DETAIL

N.T.S.

NOTE:
1. MINIMUM 6" DEEP.
2. MINIMUM 2% SLOPE LATERALLY TO SWALE AND LONGITUDINALLY ALONG SWALE TO PREVENT STANDING WATER.
3. SWALE SHALL BE LINED WITH VMAX P-550 TURF REINFORCEMENT MAT OR APPROVED EQUAL.
4. SWALE SHALL BE SEEDED WITH WET SEED MIX PER MSD SEEDING TABLE.

Common Name	Latin Name	Height (feet)	Spacing (feet)	Seasonal Interest - Color and Months	J	F	M	A	M	J	J	A	S	O	N	D	Sun	Part Shade	Shade	Wet	Dry	Bioretention	Fall Color	Pollator Interest	Soil Tolerance	Aggressiveness	Soil Tolerance	Ounces per Acre
DRY AREA MIX																												
Grasses/Sedges																												
Andropogon ternarius	Splitbeard bluestem	1-2	1.5	silver	x	x							x	x	x	x	x			x		x	x		L	L		32
Andropogon virginicus	Broomsedge	1-2	1.5	orange								x	x	x	x	x	x			x		x	x		M	L		32
Bouteloua curtipendula	Sideoats grama	1-2	1	tan							x	x	x	x	x		x			x					L	L		64
Schizachyrium scoparium	Little bluestem	2-3	1.5	bronze	x	x						x	x	x	x	x	x			x		x	x	M	L	L		64
Sporobolus heterolepis	Prairie dropseed	2-3	1.5	tan								x	x	x	x	x	x			x			x		L			16
Forbs																												
Asclepias tuberosa	Butterfly milkweed	1-2	1.5	orange						x	x	x					x					x		V	M			32
Aster oblongifolium	Aromatic aster	1-3	1.5	lavender								x	x				x			x	x				M			12
Coreopsis lanceolata	Lanceleaf coreopsis	1-2	1.5	yellow			x	x	x								x	x			x				L			20
Echinacea pallida	Pale purple coneflower	2-3	1.5	violet						x	x						x	x			x				L			48
Ratibida pinnata	Yellow/Grey coneflower	3-5	1.5	yellow						x	x	x					x	x			x	x		M	H	L		8
Solidago nemoralis	Old field goldenrod	4-6	1.5	yellow							x	x	x				x	x			x				L	L		4
Zizia aureas	Golden alexander	1-3	1.5	yellow				x	x								x	x	x			x		M	M	U		32
Annuals (optional)																												
Chamaecrista fasciculata	Partridge pea	1-3	1	yellow							x	x	x				x	x			x	x						32
Coreopsis tinctoria	Plains coreopsis	2-4	1	yellow						x	x	x	x				x					x						4
Palafoxia callosa	Palafoxia	2-3	2	pink								x	x	x			x	x										4
Rudbeckia hirta	Black-eyed Susan	2-3	1.5	yellow						x	x	x	x				x				x							4
WET AREA MIX																												
Grasses/Sedges																												
Carex annectans	Yellow fruited sedge	2-3	1.5	tan				x	x	x							x	x	x		x		x		L			5
Carex grayi	Bur sedge	1-2	1.5	tan				x	x	x								x	x	x	x				L	M		64
Carex muskingumensis	Palm sedge	2-3	1.5	tan				x	x	x	x	x	x				x	x	x	x	x		x		M	M		8
Carex shortiana	Short's sedge	2	1.5	bluish				x	x	x							x	x	x		x		x		L			32
Chasmanthium latifolium	River oats	2-4	1.5	green						x	x	x	x	x	x			x	x	x	x	x	x		H			64
Elymus virginicus	Virginia wild rye	2-3	1.5	yellow				x	x	x								x			x	x						32
Panicum virgatum	Switchgrass	3-6	2.5	pink	x	x					x	x	x	x	x	x	x	x	x		x		x		M	M	M	16
Scirpus atrovirens	Great green bullrush	2-3	1.5	green				x	x	x							x	x			x			x	L			4
Forbs																												
Asclepias incarnata	Marsh milkweed	3-5	1.5	pink							x	x	x				x	x			x				M			16
Chelone obliqua	Rose turtlehead	3-4	2	rose/purple									x	x	x		x	x	x	x					M			2
Eupatorium coelestinum	Mist flower; wild ageratum	1-2	1.5	lavender							x	x	x	x			x	x				x			M	H		2
Helenium autumnale	Sneezeweed	3-4	2	yellow							x	x	x	x	x		x	x		x	x			M	M			4
Iris virginica	Southern blueflag iris	2-3	2	blue													x	x			x		x		M	M		20
Lobelia siphilitica	Blue lobelia	2-3	1.5	blue													x	x	x						M			2
Ludwigia alternifolia	Seedbox	2-3	1	yellow							x	x	x				x	x	x		x							2
Penstemon digitalis	Smooth beard-tongue	2-3	1.5	white					x	x							x	x			x				M	M		2
Physostegia virginiana	Obedient Plant	2-3	1.5	pink							x	x	x				x	x	x		x	x			H			4
Rudbeckia fulgida	Orange coneflower	2	2	yellow							x	x	x	x			x	x				x	x		M			8
Annuals (optional)																												
Bidens aristosa	Bur marigold	3-6	1.5	yellow							x	x	x				x					x			H			4

Requirements
Local Ecotype Rule: Plants of Missouri or Southern Illinois ecotype are required.
PLS means pure live seed; or seed that has been tested for purity and viability. This is done by most seed nurseries and should be included in your seed order.
Dry denotes an area above the 1 year ponding or bank flow elevation.
Wet denotes an area that is at or below the 1 year ponding or bank flow elevation.

Must use a minimum of 6 grass/sedge species and 8 forb species for each BMP. It is recommended that this list be provided to landscape contractors/buyers in case substitutions are required.

Section 7: Seed Mix List | MSD Seeding Guide | Seed: Shorter, less diverse mixes

ISSUE	DATE / REMARKS
1	5-22-2020 Initial Submittal
2	7-14-2020 City Comment Revisions
3	8-13-2020 City Comment Revisions
4	9-01-2020 City Comment Revisions
5	12-02-2020 City Approval

PROJECT TITLE
SHADY CREEK ADDITION
O'FALLON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-sur.com
Corporate Certificate of Authority #001348

Unauthorized alteration or addition to these documents is a violation of law. Only those documents bearing the seal, signature and date of a licensed professional engineer shall be considered genuine, valid and enforceable. Electronic versions of these documents are not acceptable. Only those documents bearing the seal and signature are considered genuine, valid and enforceable documents.

STATE OF MISSOURI
RODNEY ARNOLD
NUMBER PE-2002016612
PROFESSIONAL ENGINEER

Date: 12/02/2020
RODNEY ARNOLD
LICENSE # PE-2002016612
Professional Engineer

Lombardo Homes of St. Louis, LLC
2299 Technology Drive, Suite 150
O'Fallon, Missouri 63368
Ph. (636) 265-2710
Fax (636) 695-3195
www.lombardohomesstlouis.com

BASIN A

P+Z No. P&Z NO
City No.
Date: 12/02/2020
Job No. 14-12-405
Page No.
10.1
IMP

"Final Plan" Approval Date: June 4, 2020 (19-002801)

Drawing name: V:\14\12405 Shady Creek Addition\Drawings\Engineering\Improvements\2405 IMP.dwg Plotted on: Dec 02, 2020 - 10:49am Plotted by: bmoller