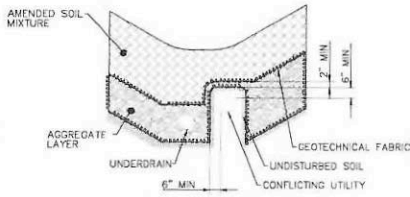
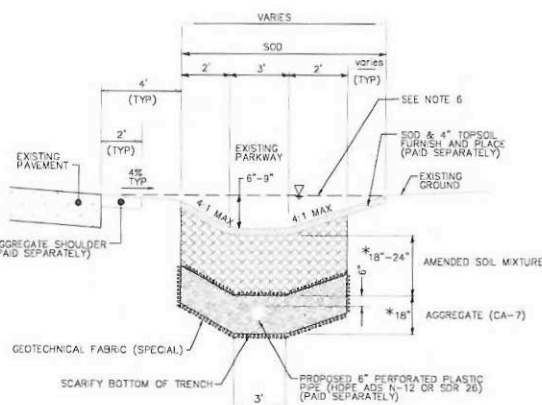


POROUS PARKWAY NOTES

- UNDERGROUND WATER AND SEWER UTILITIES WITHIN THE EXCAVATION ZONE SHALL BE MAINTAINING AT LEAST 24 INCHES OF UNDISTURBED COVER. THE UTILITY VERIFY UTILITY LOCATIONS USING EXPLORATION TRENCH (SPECIAL). PROVIDE TWO (2) INCH THICK STYROFOAM BOARD INSULATION OVER WATER AND SEWER UTILITIES THROUGH LIMITS OF EXCAVATION WITHIN A MINIMUM BOARD WIDTH OF TWO (2) FEET.
- THE BOTTOM OF THE EXPOSED EXCAVATED AREA SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR (4) INCHES.
- INSTALL FILTER FABRIC ON SURFACES AS SHOWN ON THE PLANS. FABRIC SHALL BE OVERLAPPED AT LEAST ONE (1) FOOT AT THE ENDS AND STAKING THE ENDS TURNED UP SURFACES IN-PLACE DURING CONSTRUCTION. REMOVE EXCESS FABRIC BY CUTTING AFTER BACK-FILLING IS COMPLETE.
- AMENDED SOL MIX SHALL BE COMPOSED OF 40% COARSE SAND, 30% COMPOST, AND 30% TOPSOIL BASED ON VOLUME. COARSE SAND SHALL CONSIST MOSTLY OF SILICA, BUT SAND CONSISTING OF DOLOMITE OR CALCIUM CARBONATE MAY ALSO BE USED. MANUFACTURED SAND MAY NOT BE USED. SAND GRADE FA 1, OR FA 20 IS ACCEPTABLE WITH THE EXCEPTION THAT THE PERCENT PASSING NO. 200 SIEVE SHALL BE NO MORE THAN FOUR (4) PERCENT. COMPOST SHALL BE IN ACCORDANCE WITH ARTICLE 10B.05 OF THE STANDARD SPECIFICATIONS.
- AMENDED SOL MIX SHALL BE THOROUGHLY MIXED AND MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT. THE MIX SHALL BE PLACED IN EQUAL CONTINUOUS LAYERS NOT EXCEEDING TWELVE (12) INCHES DEPTH. ENGINEERED SOL MIX SHALL BE PLACED LOOSELY. EACH LAYER SHOULD BE LIGHTLY WATERED TO MINIMIZE POST-CONSTRUCTION SETTLEMENT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL ENGINEERED SOL MIX AS NECESSARY (SLIGHTLY OVERLIFT) TO OBTAIN THE PROPOSED FINAL GRADES AND SLOPES. PRE-SOAKING PLACED SOL MAY BE USED TO ACHIEVE FINAL GRADES.
- WATER ELEVATION (W.E.) SHALL BE EQUAL TO EDGE OF PAVEMENT.
- SIDE SLOPES SHALL BE GRADED AS FLAT AS POSSIBLE BUT NO STEEPER THAN 4:1 (H:V). SEE CROSS SECTION SHEETS FOR SIDE SLOPE VARIATIONS.
- POROUS PARKWAY SHALL HAVE 4" TOPSOIL AND SOD OVER AMENDED SOL MIX, SEE DETAIL.
- ADJUST THICKNESS OF LAYERS TO AVOID UTILITIES MAINTAINING THE BOTTOM OF STONE AT OR BELOW THE ROADWAY SUBGRADE ELEVATION. SEE UTILITY CONFLICT DETAIL FOR UTILITIES THAT ARE TOO SHALLOW.



POROUS PARKWAY UTILITY CONFLICTS
NOT TO SCALE



POROUS PARKWAY DETAIL

RESTORATION - PLANTING & SEEDING MIX ZONES

754 SY	ELEV 664.5 & LP	PRAIRIE
156 SY	ELEV 663.5-664.5	WET PRAIRIE
55 SY	ELEV 663.0-663.5	EMERGENT

Emergent Zone Planting List (2' - 8" inundation)

Species	Common Name	Planting Rate (per acre)
<i>Alnus incana</i>	Swamp alder	1.00
<i>Thuja occidentalis</i>	Blue spruce	1.00
<i>Salix nigricans</i>	Black willow	1.00
<i>Sagittaria arifolia</i>	Arrowhead	1.00
<i>Sparganium angustifolium</i>	Sparganium	1.00

Wet Prairie Zone Planting List (Monthly)

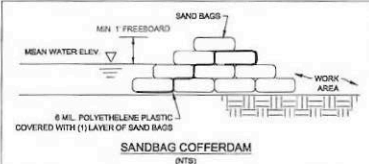
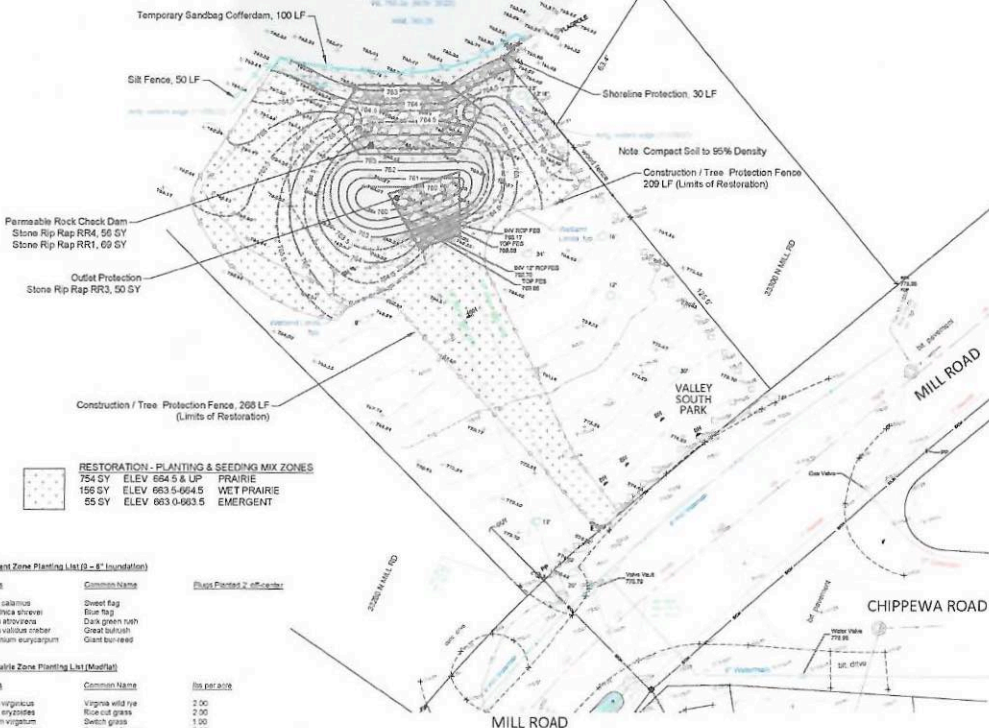
Species	Common Name	Rate per acre
<i>Elymus virginicus</i>	Virginia wild rye	2.00
<i>Lactuca scariola</i>	Lactuca	2.00
<i>Panicum virginicum</i>	Switch grass	1.00
<i>Spartina patens</i>	Prairie cord grass	1.00
<i>Aster spicatus</i>	Swamp milkweed	0.25
<i>Aster novae-angliae</i>	New England aster	0.15
<i>Aster longifolius</i>	Fraxinoid aster	0.15
<i>Bidens cernua</i>	Nodding bur marigold	0.30
<i>Carex lasiocarpa</i>	Slender sedge	0.25
<i>Carex lasiocarpa</i>	Common fax sedge	0.25
<i>Carex lasiocarpa</i>	Brown fox sedge	0.25
<i>Helianthus scaberrimus</i>	Snowweed	0.25
<i>Juncus acrocarpa</i>	Dusky rush	0.25
<i>Juncus acrocarpa</i>	Turkey rush	0.25
<i>Pyrolanthum virginicum</i>	Mountain mint	0.25
<i>Sagittaria arifolia</i>	Arrowhead	0.25
<i>Sagittaria arifolia</i>	Cross leaved goldenrod	0.25
<i>Veronica hastata</i>	Blue veronica	0.25
<i>Veronica hastata</i>	Ironweed	0.25

Prairie Zone Planting List (Dry)

Species	Common Name	Rate per acre
<i>Andropogon gerardi</i>	Big bluestem	3.00
<i>Andropogon scoparius</i>	Little bluestem	3.00
<i>Bouteloua curtipendula</i>	Side-o-the-plains	1.00
<i>Elymus canadensis</i>	Canada wild rye	1.00
<i>Panicum virgatum</i>	Switch grass	1.00
<i>Sorghastrum nutans</i>	Indian grass	2.00
<i>Asclepias tuberosa</i>	Butterfly weed	0.25
<i>Aster laevis</i>	Smooth blue aster	0.25
<i>Aster laevis</i>	New England aster	0.25
<i>Carex lasiocarpa</i>	Slender sedge	0.25
<i>Elymus virginicus</i>	Purple top timothy	0.25
<i>Helianthus scaberrimus</i>	White sunflower	0.25
<i>Moroneja foliolosa</i>	Wild bergamot	0.25
<i>Phlox pilularis</i>	Flowering phlox	0.25
<i>Rudbeckia hirta</i>	Yellow coneflower	0.25
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.25
<i>Solidago rigida</i>	Stiff goldenrod	0.25
<i>Tradescantia virginiana</i>	Common spiderwort	0.25
<i>Veronica hastata</i>	Ironweed	0.25

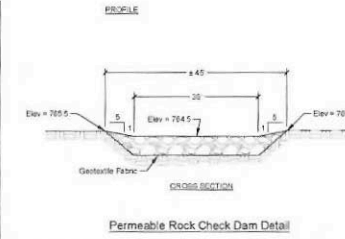
Cover crop: Annual rye @ 10 lbs per acre
Seed rate @ 32 lbs per acre

VALLEY LAKE



WORK NOTES:

- TEMPORARY COFFERDAM CONSTRUCTION
- CONSTRUCTION AREA WATERING
- TEMPORARY RIP RAP INK CONSTRUCTION
- RESTORATION AND SOD INSTALLATION
- PLANTING OF TRAP SLUMP PIP
- COFFERDAM REMOVAL & SHORELINE RESTORATION



Permeable Rock Check Dam Detail

BLECK
engineers | surveyors

Bleck Engineering Company, Inc.
1372 North Warren Avenue
Lake Forest, Illinois 60045
T 847.235.5210 W bleckeng.com

WILDWOOD AREA STORMWATER INFRASTRUCTURE IMPROVEMENTS



REVISIONS

NO.	DATE	DESCRIPTION
1	12/11/2013	PERMITS
2	01/24/2014	FOR BID
3	03/23/2014	REVIEW

PROFESSIONAL SEAL

Joy M. Corona, PE 02.03.2013

WARREN TOWNSHIP ROAD DISTRICT

220-218 Project No.
007-61 Drawn By
F20 Checked By

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