

SOIL MANAGEMENT

AS THE SOILS ARE HYDRIC WITHIN THE PROPOSED WETLAND MITIGATION AREA NO OUTSIDE SOILS ARE NEEDED. ALL EXCAVATION WORK SHALL BE EXECUTED DURING DRY WEATHER. THE CONTRACTOR SHALL TAKE MEASUREMENTS TO MINIMIZE OVER WORKING AND COMPACTION OF PLACED SOIL. EQUIPMENT USED FOR EXCAVATION SHALL BE WITH LOW PSI EQUIPMENT (E.G. CATERPILLAR 287B OR EQUIVALENT).

FINAL GRADE IS EXPECTED TO CONFORM, AFTER NATURAL COMPACTION, TO ELEVATIONS AND CONTOURS DELINEATED ON THE GRADING PLAN. PRIOR TO SEEDING, THE SOIL SURFACE SHALL BE ROUGH RAKED TO ENHANCE RETENTION OF SURFACE WATER.

HYDROLOGY PLAN

THE DUPAGE RIVER AND ASSOCIATED WETLANDS ARE LOCATED ADJACENT TO THE MITIGATION AREA. AS THE RIVER HAS DOWN CUT THE WETLANDS LOCATED ON THE RIVER BANKS HAVE LOST MUCH OF THEIR HYDROLOGY, AS SUCH, EXCAVATING THE TOPSOIL TO MATCH THE GRADE OF THE EXISTING WETLANDS WILL RETURN THE HYDROLOGY TO THIS AREA. THE MITIGATION AREA WILL BE SURFACE WATER AND GROUNDWATER DRIVEN. MUCH OF THE TRIBUTARY AREAS WILL CONSIST OF MODERATE TO GOOD URBAN WATER QUALITY DUE TO DRAINAGE. THE DESIGN INCLUDES ONE GROUNDWATER MONITORING WELL.

PLANTING PLAN

THE COVER CROP MATRIX WILL BE PLANTED THROUGHOUT THE WETLAND MITIGATION AREAS IMMEDIATELY AFTER GRADING TO PREVENT EROSION IF CONDITIONS ARE NOT CONDUCTIVE FOR NATIVE SPECIES SEEDING. PERMANENT NATIVE SPECIES SHALL BE DORMANT SEEDS DURING THE FALL/WINTER MONTHS OR DURING THE FIRST AVAILABLE GROWING SEASON AT THE APPROPRIATE TIME AND CONDITIONS FOR SUCH PLANTINGS. ALL SEEDING SHALL BE COMPLETED ACCORDING TO INDUSTRY STANDARDS FOR NATIVE SEED INSTALLATION. THE PREFERRED METHOD OF SEED INSTALLATION SHALL BE THE RANGELAND-TYPE NATIVE GRASS AND WILDFLOWER SEED DRILL/BROADCAST METHOD, EXCEPT WHERE SLOPES ARE STEEPER THAN 3:1. SOIL IS SATURATED, OR SIZE CONSTRAINTS PROHIBIT THE USE OF A RANGELAND DRILL.

WHERE SLOPES, SATURATED SOILS, OR SIZE CONSTRAINTS PROHIBIT THE USE OF A DRILL SEEDER, THE BROADCAST OR HYDROSEED METHODS MAY BE USED WITH APPROVAL FROM THE WETLAND CONSULTANT. IF A BROADCAST METHOD OF SEEDING IS USED (INCLUDING HYDROSEEDING), THE FOLLOWING REQUIREMENTS SHALL BE FOLLOWED. THE AMOUNT OF SEED PER ACRE WILL BE DOUBLE THE INDICATED DRILL SEED RATE. FURTHER, BROADCAST-APPLIED SEED WILL BE EITHER ROLLED OR HAND RAKED INTO THE SOIL TO ENSURE GOOD SOIL-SEED CONTACT. WITHIN 12 HOURS, IF CONDITIONS PERMIT OR AS SOON THEREAFTER AS PRACTICAL, ALL SEEDS AREAS SHALL BE ROLLED AT RIGHT ANGLES TO THE RUNOFF WITH AN APPROVED TYPE ROLLER OR CULTIPACKER TO FIRM THE SEEDBED AND PLACE THE SEED IN CONTACT WITH THE SOIL.

PLUGS SHALL BE PLANTED ON 24" CENTERS AFTER MAY 1ST WHEN FROST IS NO LONGER LIKELY AT THE APPROPRIATE TIME AND CONDITIONS FOR SUCH PLANTINGS. HOLES FOR PLUGS SHALL BE AS DEEP OR SLIGHTLY DEEPER THEN THE PLUG ROOTS AND SOIL SHALL BE LIGHTLY PACKED AROUND THE ROOTS OF THE PLUG. GOOSE GRID SHALL BE INSTALLED IMMEDIATELY FOLLOWING PLANTING TO PROTECT THEM FROM PREDATION. THE SOIL SURFACE SHOULD BE DAMP FOR THE FIRST TWO WEEKS FOLLOWING PLANTING; AS SUCH, WATERING MAY BE NECESSARY.

THE CONTRACTOR SHALL SUPPLY WATER AS NECESSARY TO ESTABLISH THE PLANTED AREAS. NO FERTILIZER SHALL BE APPLIED IN CONJUNCTION WITH SEEDING OR THEREAFTER UNLESS RECOMMENDED BY THE WETLAND CONSULTANT.

THE PROPOSED SPECIES, SPECIFICATIONS, AND DRILL SEEDING RATES FOR THE PLANTING AREAS ARE PROVIDED IN THE FOLLOWING TABLES:

NATIVE PLANT PLUGS 0.99 ACRES

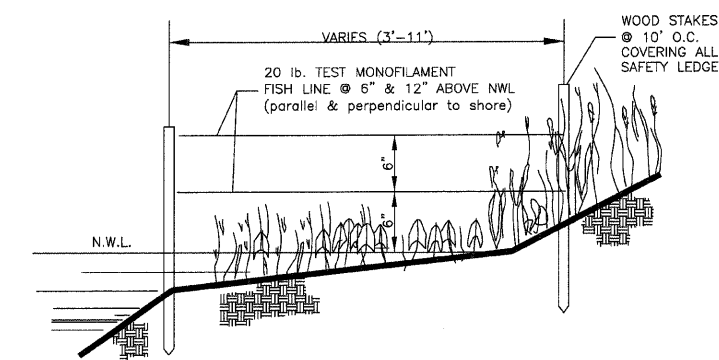
PLANT ON 24" CENTERS

PERMANENT GRASSES, SEDGES, & RUSHES:		
SCIENTIFIC NAME	COMMON NAME	QUANTITY
CAREX COMOSA	BRISTLY SEDGE	304
CAREX STRICTA	COMMON TUSsock SEDGE	304
CAREX VULPINOIDEA	BROWN FOX SEDGE	304
JUNCUS EFFUSUS	COMMON RUSH	304
SCIRPUS PUNGENS	CHAIRMAKER'S RUSH	304
SPARTINA PECTINATA	PRAIRIE CORD GRASS	304
SUBTOTAL		1824
FORBS:		
SCIENTIFIC NAME	COMMON NAME	QUANTITY
ASCLEPIAS INCARNATA	SWAMP MILKWEED	303
EUTHAMIA GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	303
FILIPENDULA RUBRA	QUEEN OF THE PRAIRIE	303
GENTIANA ANDREWSII	BOTTLE GENTIAN	303
HELENIUM AUTUMNALE	SNEEZEWEED	303
HIBISCUS LAEVIS	SMOOTH ROSE MALLOW	303
IRIS VIRGINICA	BLUE FLAG IRIS	303
MIMULUS RINGENS	MONKEY FLOWER	303
SPARGANIUM EURYCARPUM	COMMON BUR REED	303
VERNONIA FASCICULATA	COMMON IRONWEED	303
SUBTOTAL		3030
TOTAL		4854

SEDGE MEADOW SEED MIX J.F. NEW, WALKERTON, INDIANA		
BOTANICAL NAME	COMMON NAME	PLS OUNCES/ACRE
PERMANENT GRASSES/SEDGES:		
CALAMAGROSTIS CANADENSIS	BLUEJOINT GRASS	0.50
CAREX COMOSA	BRISTLY SEDGE	1.50
CAREX CRISTATELLA	CRESTED OVAL SEDGE	1.50
CAREX FRANKII	BRISTLY CATTAIL SEDGE	3.00
CAREX LUPULINA	COMMON HOP SEDGE	2.50
CAREX LURIDA	BOTTLEBRUSH SEDGE	4.00
CAREX STIPATA	COMMON FOX SEDGE	1.00
CAREX VULPINOIDEA	BROWN FOX SEDGE	4.00
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	30.00
GLYCERIA STRIATA	FOWL MANNA GRASS	0.50
JUNCUS EFFUSUS	COMMON RUSH	0.25
LEERSIA ORYZOIDES	RICE CUT GRASS	1.25
PANICUM VIRGATUM	SWITCH GRASS	1.50
SCIRPUS ATROVIRENS	DARK GREEN RUSH	0.75
SCIRPUS PENDULUS	RED BULRUSH	0.25
SCIRPUS PUNGENS	CHAIRMAKER'S RUSH	1.00
SCIRPUS VALIDUS	GREAT BULRUSH	4.00
SPARTINA PECTINATA	PRAIRIE CORD GRASS	2.00
TOTAL		59.50

FORBS:		
BOTANICAL NAME	COMMON NAME	PLS OUNCES/ACRE
ALISMA SPP.	WATER PLANTAIN (VARIOUS MIX)	2.00
ANGELICA ATROPURPUREA	GREAT ANGELICA	4.00
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1.00
ASTER LANCEOLATUS	PANICLED ASTER	0.25
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.50
ASTER PUNICEUS	SWAMP ASTER	1.00
ASTER UMBELLATUS	FLAT-TOP ASTER	0.25
BIDENS CERNUA	NODDING SWAMP MARIGOLD	2.00
SENNA HEBECARPA	WILD SENNA	0.75
COREOPSIS TRIPTERIS	TALL COREOPSIS	2.50
EUPATORIUM MACULATUM	SPOTTED JOE-PYE WEED	1.00
EUPATORIUM PERFOLIATUM	COMMON BONESET	0.50
FILIPENDULA RUBRA	QUEEN OF THE PRAIRIE	0.25
GENTIANA ANDREWSII	BOTTLE GENTIAN	0.25
HELENIUM AUTUMNALE	SNEEZEWEED	2.00
HIBISCUS LAEVIS	SMOOTH ROSE MALLOW	2.00
IRIS VIRGINICA	BLUE FLAG IRIS	3.00
LIATRIS SPICATA	MARSH BLAZING STAR	2.50
LOBELIA CARDINALIS	CARDINAL FLOWER	0.25
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	2.00
LUDWIGIA ALTERNIFOLIA	SEED BOX	0.25
PHYSOSTEGIA VIRGINIANA	FALSE DRAGONHEAD	0.25
PHYCANTHEMUM VIRGINIANUM	VIRGINIA MOUNTAIN MINT	0.50
SAGITTARIA LATIFOLIA	BROAD-LEAF ARROWHEAD	2.00
SILPHIUM PERFOLIATUM	CUP PLANT	3.00
SPARGANIUM EURYCARPUM	COMMON BUR REED	4.00
SPIRAEA ALBA / SPIRAEA TOMENTOSA	MEADOWSWEET / STEEPLEBUSH	0.25
THALICTRUM DASycARPUM	PURPLE MEADOW RUE	2.50
VERBENA HASTATA	BLUE VERVAIN	2.00
VERNONIA SPP.	IRONWEED (VARIOUS MIX)	1.00
ZIZIA AUREA	GOLDEN ALEXANDERS	1.00
TOTAL		44.75

LOW-PROFILE PRAIRIE SEED MIX J.F. NEW, WALKERTON, INDIANA		
BOTANICAL NAME	COMMON NAME	PLS OUNCES/ACRE
PERMANENT GRASSES:		
BOUTELOUA CURTIPENDULA	SIDE OATS GRAMA	10.00
CAREX SPP.	PRAIRIE SEDGE MIX	1.00
ELYMUS CANADENSIS	CANADA WILD RYE	16.00
KOELERIA PYRAMIDATA	JUNE GRASS	2.00
PANICUM VIRGATUM	SWITCH GRASS	1.00
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	28.00
SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	3.00
TOTAL		61.00
FORBS:		
AMORPHA CANESCENS	LEAD PLANT	1.00
ANEMONE CYLINDRICA	THIMBLEWEED	0.50
AQUILEGIA CANADENSIS	WILD COLUMBINE	0.50
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	2.00
ASTER ERICOIDES	HEATH ASTER	0.25
ASTER LAEVIS	SMOOTH BLUE ASTER	0.75
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.25
BAPTISIA LACTEA	WHITE WILD INDIGO	1.00
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	9.00
COREOPSIS LANCEOLATA	SAND COREOPSIS	1.50
COREOPSIS PALMATA	PRAIRIE COREOPSIS	1.00
DALEA CANDIDUM	WHITE PRAIRIE CLOVER	1.50
DALEA PURPUREA	PURPLE PRAIRIE CLOVER	1.50
ECHINACEA PURPUREA	BROAD-LEAVED PURPLE CONEFLOWER	3.50
ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	2.50
KUHUNIA EUPATOIDES	FALSE BONE-SET	0.50
LESPEDEZA CAPITATA	ROUND-HEAD BUSH CLOVER	2.00
LIATRIS ASPERA	ROUGH BLAZING STAR	0.50
LUPINUS PERENNIS	WILD LUPINE	2.00
MONARDA FISTULOSA	WILD BERGAMOT	0.50
PARTHENIUM INTEGRIFOLIUM	WILD QUININE	1.00
PENSTEMON DIGITALIS	FOXGLOVE BEARD TONGUE	0.50
PHYSOSTEGIA VIRGINIANA	FALSE DRAGONHEAD	0.25
PHYCANTHEMUM VIRGINIANUM	COMMON MOUNTAIN MINT	1.00
RATIBIDA PINNATA	YELLOW CONEFLOWER	3.00
RUDBECKIA HIRTA	BLACK-EYED SUSAN	2.00
RUDBECKIA SUBTOMENTOSA	SWEET BLACK-EYED SUSAN	1.00
SILPHIUM INTEGRIFOLIUM	ROSIN WEED	0.50
SILPHIUM TEREBINTHINACEUM	PRAIRIE DOCK	2.00
SOLIDAGO NEMORALIS	OLD-FIELD GOLDENROD	0.25
SOLIDAGO RIGIDA	STIFF GOLDENROD	1.00
TRADESCANTIA OHIENSIS	COMMON SPIDERWORT	0.75
VERNONIA SPP.	IRONWEED (VARIOUS MIX)	1.75
VERONICASTRUM VIRGINIANUM	CULVER'S ROOT	0.25
TOTAL		49.75
ANNUAL/PERENNIAL FORBS MIX		32.00



GOOSE GRID BARRIER DETAIL N.T.S.

NOTE: THIS ITEM SHALL BE INCLUDED IN THE COST OF FURNISHING AND INSTALLING THE WETLAND PLUGS.

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