

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 8" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROXIMATE ONE ANCHOR TO SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY ROLLING STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.

5. CONSECUTIVE RECP'S SPACED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

1. PREPARE EL TERRENO ANTES DE INSTALAR LAS MANTAS, INCLUYENDO LA APLICACION DE CAL, FERTILIZANTE Y SEMILLA.

2. COMIENCE EN LA CABECERA DEL TALUD SUELTANDO LA MANTA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 8" (15 CM) DE ANCHO CON APROXIMADAMENTE 12" (30 CM) DE LA MANTA EXTENDIDA MAS ALLA DE LA PUNTA DE LA ZANJA. SUJETE LA MANTA AL FONDO DE LA ZANJA CON UNA LINEA DE GRAPAS O ESTACAS APROXIMADAMENTE 12" (30 CM) UNA DE LA OTRA. RELLENE Y COMPACTE LA ZANJA DESPUES DEL ENGRAPADO. PEGUE LA SEMILLA EN EL SUELO COMPACTADO Y DOBLE LAS 12" (30 CM) REMANENTES DE MANTA SOBRE LA SEMILLA EL SUELO COMPACTADO. ASEGURE LA MANTA SOBRE EL SUELO CON UNA LINEA DE GRAPAS O ESTACAS APROXIMADAMENTE 12" (30 CM) UNA DE LA OTRA A TRAVES DEL ANCHO DE LA MANTA.

3. DESPELLE LAS MANTAS (A) HACIA ABAJO O (B) HORIZONTALMENTE A TRAVES DEL TALUD CON EL LADO APROPIADO HACIA LA SUPERFICIE DEL SUELO. LAS MANTAS DEBEN SER ANCLADAS A LA SUPERFICIE DEL SUELO POR MEDIO DE GRAPAS O ESTACAS EN LUGARES APROPIADOS Y COMO SE INDICA EN EL PATRON GUIA DE ENGRAPADO. CUANDO ESTE USANDO EL DOT DOT SYSTEM LAS GRAPAS O ESTACAS DEBEN SER USADAS COMO LINEAS DE ENGRAPADO. CUANDO ESTE USANDO EL PATRON DE ENGRAPADO APROPIADO.

4. LOS BORDES DE LAS MANTAS DEBEN TENER QUE ENGRAPARSE CON UN TRANSLAPE DE APROXIMADAMENTE 2" - 5" (5 CM - 12.5 CM) DEPENDIENDO DEL TIPO DE MANTA.

5. MANTAS CONSECUTIVAS UNIDAS EN LA BANCA DE LOS TALUDES, DEBEN COLOCARSE DENTRO SOBRE DENTRO (TIPO DICALONADO) CON UN TRANSLAPE DE APROXIMADAMENTE 3" (7.5 CM). ENGRAPAR EL AREA TRANSLAPADA CON UNA SEPARACION DE APROXIMADAMENTE 12" (30 CM) A TRAVES DE TODO EL ANCHO DE LA MANTA.

NOTA: EN CONDICIONES DE SUELO, PUEDE QUE SE NECESITEN GRAPAS O ESTACAS DE MAS DE 6" (15 CM) DE LARGO PARA ASEGURAR LAS MANTAS CORRECTAMENTE.

**Creek Bottom**

Scientific Name	Common Name	Seed Rate (lbs/acre)
<i>Bromus ciliatus</i>	Fringed Bromo	0.4-1.0
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.03-0.06
<i>Elymus virginicus</i>	Virginia Wild Rye	0.4-1.0
<i>Hierochloa odorata</i>	Vanilla Grass	0.5-1.0
<i>Spartina pectinata</i>	Prairie Cordgrass	0.5-2.0

**Forbs**

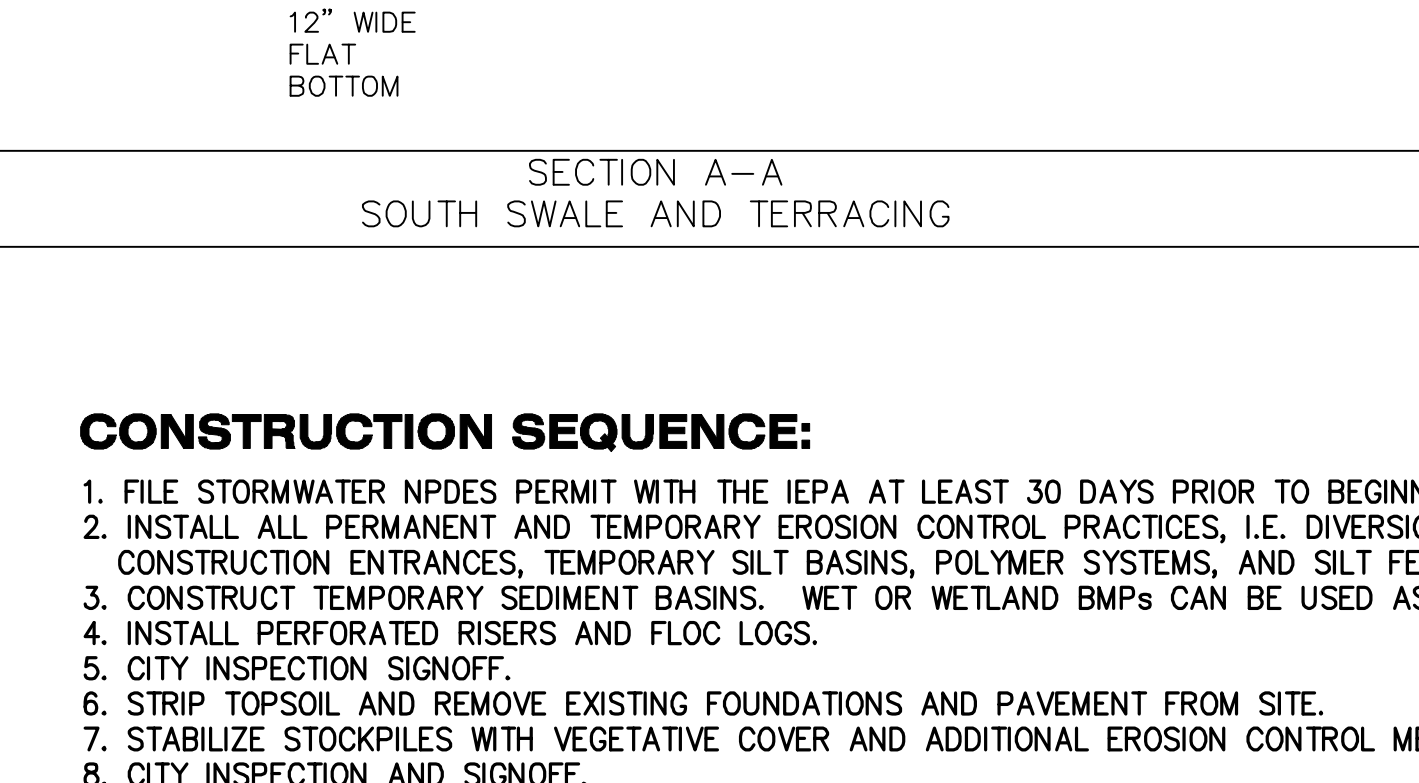
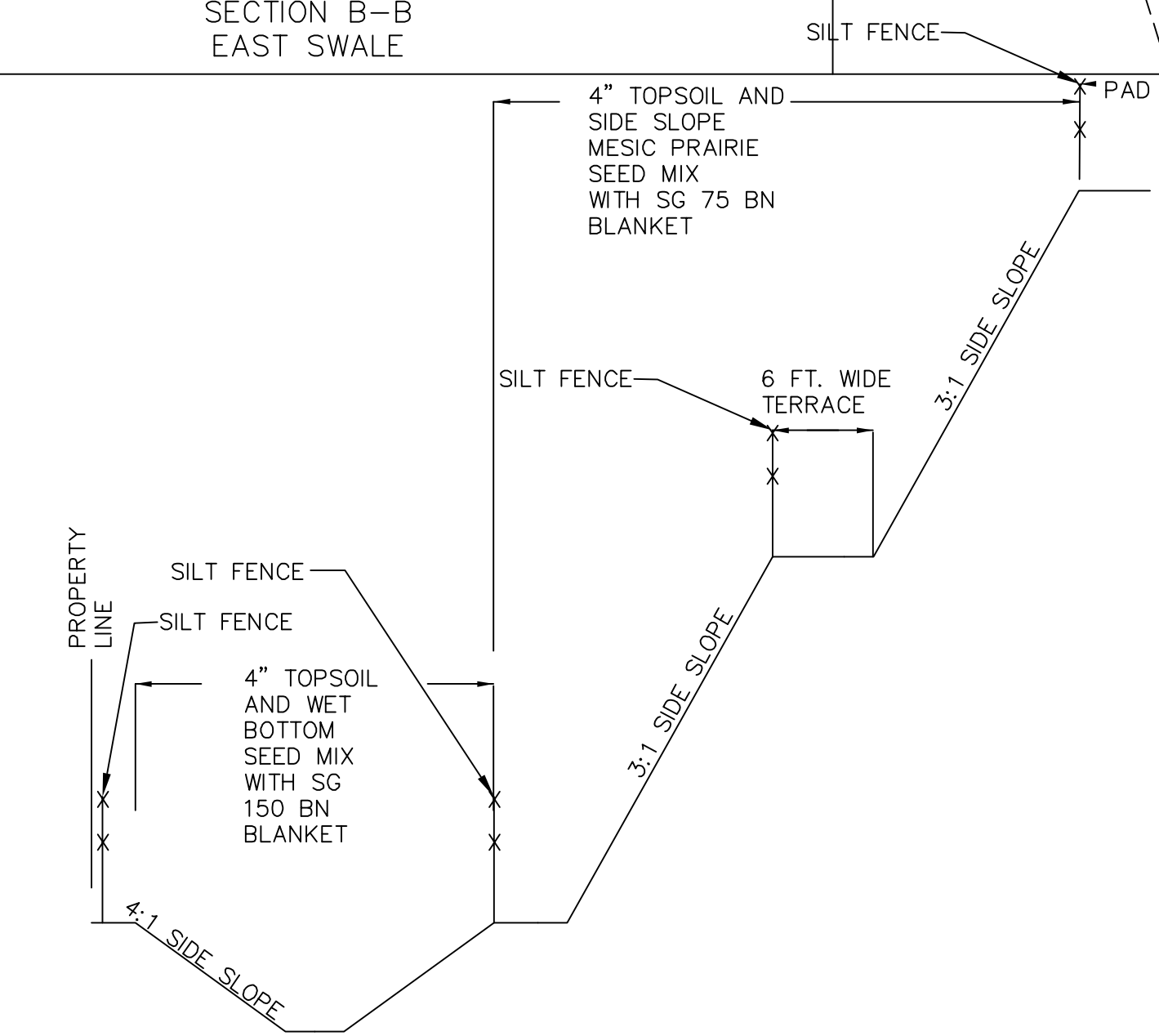
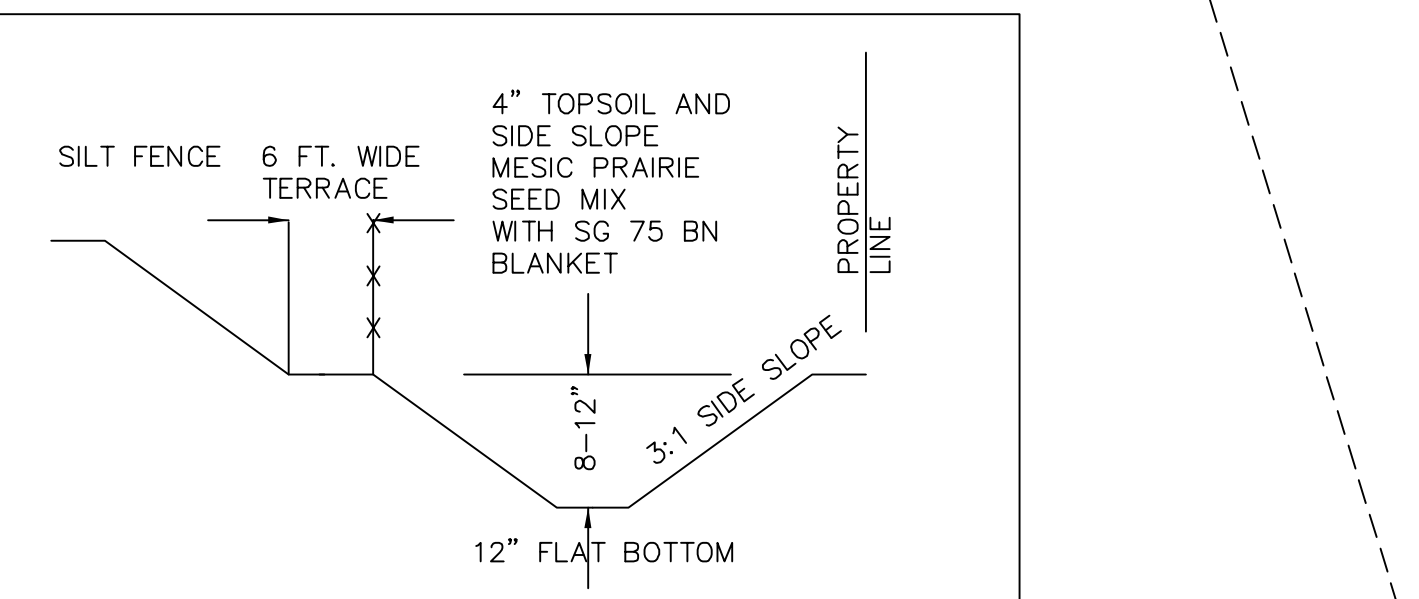
Scientific Name	Common Name	Seed Rate (lbs/acre)
<i>Asclepias incarnata</i>	Swamp Milkweed	0.06-0.5
<i>Aster novae-angliae</i>	New England Aster	0.03-0.2
<i>Aster praecox</i>	Willow Aster	0.03-0.2
<i>Cacalia plantaginifolia</i>	Prairie Indian Plantain	0.25-0.5
<i>Cheilanthes glabra</i>	Turtlehead	0.25-0.5
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	0.02-0.0
<i>Eupatorium perfoliatum</i>	Common Boneset	0.125
<i>Galium boreale</i>	Northern Bedstraw	0.06-0.3
<i>Gomphrena angustifolia</i>	Bottle Broomrape	0.06-0.5
<i>Helianthus scaberrimus</i>	Common Sneezeweed	0.12-0.5
<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	0.06-0.5
<i>Heuchera richardsonii</i>	Alamroot	0.06-0.5
<i>Juncus effusus</i>	Common Rush	0.06-0.125
<i>Juncus torreyi</i>	Torrey's Rush	0.06-0.125
<i>Liatis spicata</i>	Marsh Blazingstar	0.06-0.5
<i>Lilium michiganense</i>	Turk's Cap Lily	0.06-0.5
<i>Lobelia cardinalis</i>	Cardinal Flower	0.06-0.5
<i>Monarda fistulosa</i>	Wild Bergamot	0.06-0.5
<i>Oxypolis rigidior</i>	Cowbane	0.06-0.5
<i>Phlox glaberrima interior</i>	Marsh Phlox	0.06-0.5
<i>Physostegia virginiana</i>	Obedient Plant	0.06-0.5
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.02-0.06
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.06-0.5
<i>Silphium laciniatum</i>	Prairie Dock	0.06-0.5
<i>Smilacina stellata</i>	Starry False Solomon's Seal	0.06-0.5
<i>Solidago graminifolia</i>	Grass-leaved Goldenrod	0.25-0.5
<i>Verbena hastata</i>	Blue Vervain	0.01-0.125
<i>Veronica fasciculata</i>	Common Iron Weed	0.06-0.19

**McConnell Environmental**

Scientific Name	Common Name	Seed Rate (lbs/acre)
<i>Andropogon gerardii</i>	Big Bluestem	2
<i>Aster laevis</i>	Smooth Blue Aster	0.02-0.125
<i>Aster lanceolatus</i>	Panicled Aster	0.06
<i>Aster novae-angliae</i>	New England Aster	0.03-0.2
<i>Bidens frondosa</i>	Common Beggarticks	0.125
<i>Bouteloua curtipendula</i>	Side-oats Grass	5
<i>Elymus canadensis</i>	Nodding Wild Rye	0.02-2.0
<i>Elymus virginicus</i>	Virginia Wild Rye	0.4-1.0
<i>Monarda fistulosa</i>	Wild Bergamot	0.125-1.0
<i>Panicum virgatum</i>	Switch Grass	0.25-1.0
<i>Petalostemon purpureum</i>	Purple Prairie Clover	0.25
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.02-0.06
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.03-0.19
<i>Schizachyrium scoparium</i>	Little Bluestem	1.0-6.0
<i>Silphium laciniatum</i>	Compass Plant	0.03-0.19
<i>Silphium terebinthaceum</i>	Prairie Dock	0.03-0.19
<i>Solidago rigida</i>	Stiff Goldenrod	0.06-0.3
<i>Sorghastrum nutans</i>	Indian Grass	2.5-6.0
<i>Spartina pectinata</i>	Prairie Cordgrass	0.5-2.0
<i>Tridactenia ohionensis</i>	Spiderwort	0.06-1.0
<i>Veronica fasciculata</i>	Common Iron Weed	0.06-0.19

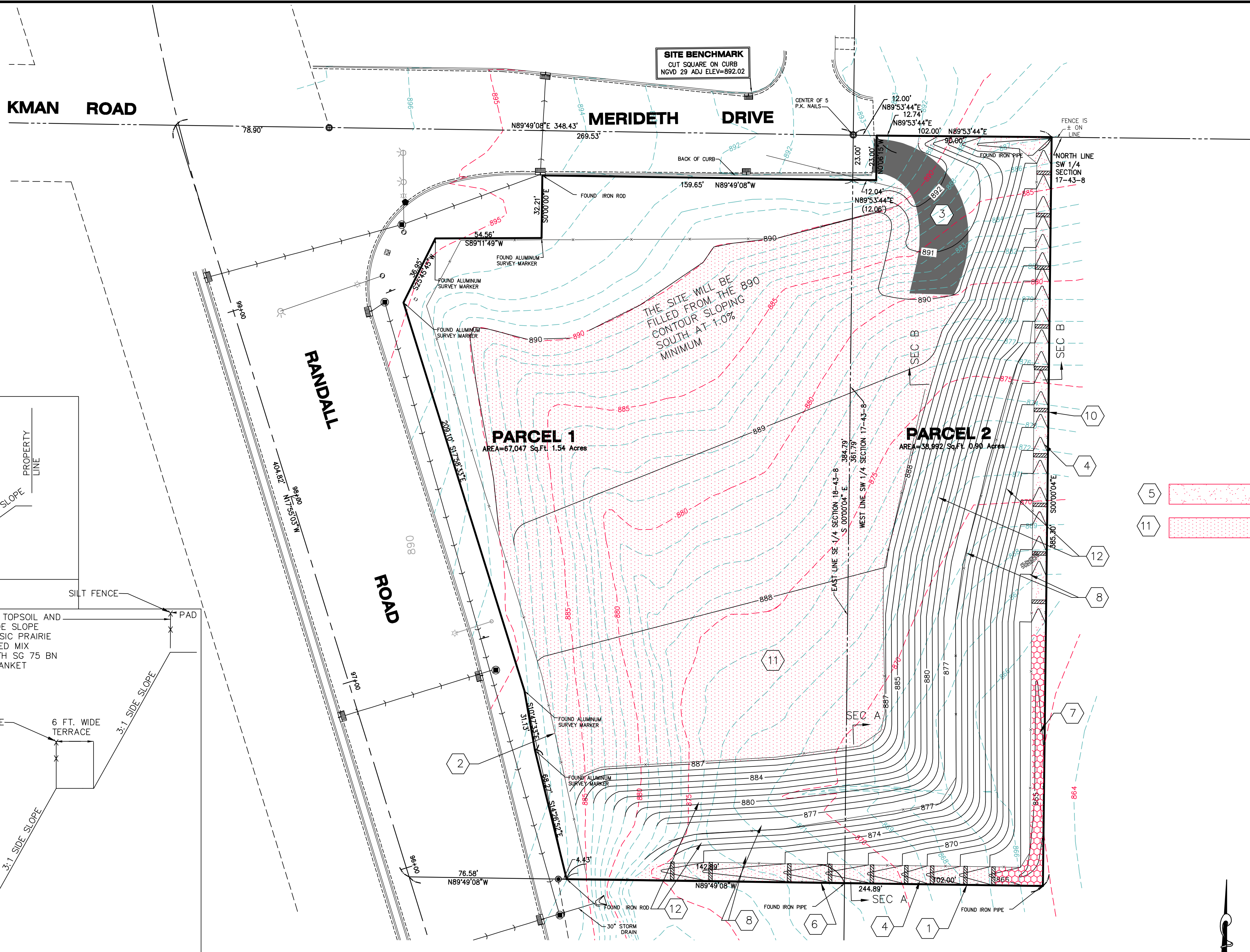
**Side Slope - Mesic Prairie**

Scientific Name	Common Name	Seed Rate (lbs/acre)
<i>Andropogon gerardii</i>	Big Bluestem	2
<i>Aster laevis</i>	Smooth Blue Aster	0.02-0.125
<i>Aster lanceolatus</i>	Panicled Aster	0.06
<i>Aster novae-angliae</i>	New England Aster	0.03-0.2
<i>Bidens frondosa</i>	Common Beggarticks	0.125
<i>Bouteloua curtipendula</i>	Side-oats Grass	5
<i>Elymus canadensis</i>	Nodding Wild Rye	0.02-2.0
<i>Elymus virginicus</i>	Virginia Wild Rye	0.4-1.0
<i>Monarda fistulosa</i>	Wild Bergamot	0.125-1.0
<i>Panicum virgatum</i>	Switch Grass	0.25-1.0
<i>Petalostemon purpureum</i>	Purple Prairie Clover	0.25
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.02-0.06
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.03-0.19
<i>Schizachyrium scoparium</i>	Little Bluestem	1.0-6.0
<i>Silphium laciniatum</i>	Compass Plant	0.03-0.19
<i>Silphium terebinthaceum</i>	Prairie Dock	0.03-0.19
<i>Solidago rigida</i>	Stiff Goldenrod	0.06-0.3
<i>Sorghastrum nutans</i>	Indian Grass	2.5-6.0
<i>Spartina pectinata</i>	Prairie Cordgrass	0.5-2.0
<i>Tridactenia ohionensis</i>	Spiderwort	0.06-1.0
<i>Veronica fasciculata</i>	Common Iron Weed	0.06-0.19

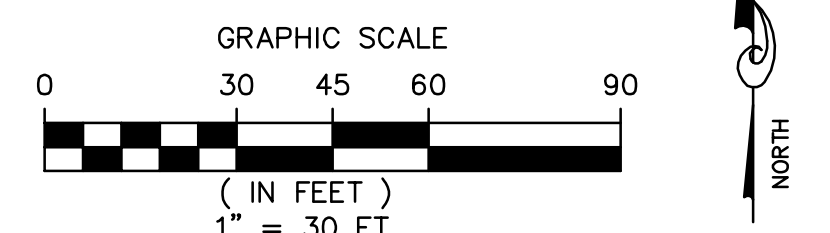


**CONSTRUCTION SEQUENCE:**

- FILE STORMWATER NPDES PERMIT WITH THE IEPA AT LEAST 30 DAYS PRIOR TO BEGINNING WORK.
- INSTALL ALL PERMANENT AND TEMPORARY EROSION CONTROL PRACTICES, I.E. DIVERSIONS, VEGETATED SWALES, STABILIZED CONSTRUCTION ENTRANCES, TEMPORARY SILT BASINS, POLYMER SYSTEMS, AND SILT FENCES.
- CONSTRUCT TEMPORARY SEDIMENT BASINS. WET OR WETLAND BMPs CAN BE USED AS TEMPORARY SEDIMENT BASINS.
- INSTALL PERFORATED RISERS AND FLOC LOGS.
- CITY INSPECTION SIGNOFF.
- STRIP TOPSOIL AND REMOVE EXISTING FOUNDATIONS AND PAVEMENT FROM SITE.
- STABILIZE STOCKPILES WITH VEGETATIVE COVER AND ADDITIONAL EROSION CONTROL MEASURES.
- CITY INSPECTION AND SIGNOFF.
- BEGIN MASS GRADING.
- ADD ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL AS NEEDED. IN PARTICULAR THE CLSO REQUIREMENT FOR STABILIZATION WITHIN 14 DAYS OF TEMPORARY OR PERMANENT CESSATION OF GRADING MUST BE MET AND WILL BE VIGOROUSLY ENFORCED BY THE CITY.
- DISK DISTURBED PVIOUS AREAS TO RESTORE INFILTRATION PRIOR TO TOPSOIL PLACEMENT AND VEGETATION.
- PARTIALLY EXCAVATE INFILTRATION BASIN AND ADD FABRIC AND SAND COVER.
- CITY INSPECTION OF INFILTRATION BASIN.
- PERMANENT SITE STABILIZATION.
- CITY INSPECTION.
- FINISH INFILTRATION BASIN CONSTRUCTION.
- CITY INSPECTION.



- (X) DETAILED CONSTRUCTION SEQUENCING:
- PLACE 610 LF SILT FENCE ALONG SOUTH AND EAST PROPERTY LINES
  - PLACE 570 LF SILT FENCE 10 FT. OFF THE RIGHT OF WAY OF RANDALL ROAD ALONG NORTH AND WEST PROPERTY LINES
  - PLACE CONSTRUCTION ENTRANCE
  - CONSTRUCT SOUTH AND EAST DRAINAGE SWALES; SEE DETAILS TO UPPER LEFT
  - RESPREAD MINIMUM 4" TOP SOIL AND WET BOTTOM SEED MIX AND SG 150 BN BLANKET ON SWALE AREA; 3950 SQ.FT.
  - PLACE 155 LIN. FT. SEDIMENT LOGS AS SHOWN (EVERY 12" OF DROP ON SOUTH SWALE & 30" DROP ON EAST SWALE)
  - PLACE 110 SY RIP RAP CLASS RR3 (RIVER ROCK)
  - CONSTRUCTION 6 FOOT FLAT ZONE ALONG THE SWALES AND PLACE 560 LIN FT. SILT FENCE; PLACE ANOTHER 400' AFTER GRADING OF SLOPE IS COMPLETE ON HIGHER TIER
  - STRIP TOPSOIL AND PLACE ALONG THE SOUTH AND EAST AREAS AS SHOWN; SEE SHEET 1
  - FILL SITE TO DESIGN CONTOURS
  - RESPREAD MINIMUM 4" TOP SOIL AND IDOT CLASS 4B SEED AND SG 75 BN BLANKET ON FLAT PAD AREA
  - RESPREAD MINIMUM 4" TOP SOIL AND SIDE SLOPE MESIC PRAIRIE SEED MIX WITH SG 150 BN BLANKET ON SIDE SLOPES
  - PLACE 340 LF SILT FENCE ALONG THE SOUTH AND EAST END OF THE PAD AREA AS SHOWN



CLIENT:  
**JOHN FUHLER**  
 FUHLER PROPERTIES  
 1134 N. MAIN ST.  
 ALGONQUIN, IL 60102  
 PH. 815-455-4000

REVISIONS	NO.	DATE	DESCRIPTION

EXPIRES 11-30-2015

**SITE IMPROVEMENTS**  
 FUHLER PROPERTIES  
 ACKMAN RD & RANDALL RD  
 CRYSTAL LAKE, ILLINOIS  
**PROPOSED CONDITIONS**

Designed By  
**AMS**  
 Drawn By  
**AMS**  
 Checked By  
**AMS**  
 Date  
**03/19/2015**  
 Job Number  
**130301**  
 Sheet Number

**02 of 03**