



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

June 7, 2011

SUBJECT: FAP Route 330 (IL 21)
Section 128-I-3
Lake County
Contract No. 60P33
Item No. 198, June 17, 2011 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Replaced the Schedule of Prices.
2. Revised the Table of Contents to the Special Provisions.
3. Added pages 92 - 99 to the Special Provisions.
4. Revised sheets 2-8, 10-12, 14, 19, 20, 24, 26-28, 31, 33-36, 65, 74-80, 86-89 & 118-120 of the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Scott E. Stitt, P.E.
Acting Engineer of Design and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger P.E.'.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Diane O'Keefe, Region 1, District 1; Mike Renner; Estimates

TBW:MS:jc

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 60P33

State Job # - C-91-512-11
 PPS NBR - 1-71388-0210
 County Name - LAKE - -
 Code - 97 - -
 District - 1 - -
 Section Number - 128-I-3

Project Number

Route

FAP 330

* REVISE : JUNE 06, 2011

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*ADD A2006520	T-QUERCUS BICOL 2-1/2	EACH	5				
*ADD A2006524	T-QUERCUS BICOL 3	EACH	2				
*ADD A2006716	T-QUERCUS MACR 2	EACH	5				
	T-QUERCUS MACR 3	EACH	3				
*DELETE K0013055	P-PL WETLAND EMERGENT	ACRE	0.740				
X0327301	RELOCATE EX MAILBOX	EACH	1.000				
*ADD X2501800	SEEDING CL 4 MOD	ACRE	2.500				
*ADD X2501820	SEEDING CL 5 MOD	ACRE	1.600				
* X2510635	HD EROS CONT BLANK SP	SQ YD	13,746.000				
*ADD X2520701	SODDING TYPE 1	SQ YD	2,416.000				
*ADD X2520702	SODDING TYPE 2	SQ YD	1,173.000				
*ADD X2520703	SODDING TYPE 3	SQ YD	511.000				
X4021000	TEMP ACCESS- PRIV ENT	EACH	1.000				
* X4022000	TEMP ACCESS- COM ENT	EACH	3.000				
X6020094	MAN TA 6D T1F CL R-P	EACH	1.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*ADD X6022712	CB TA 4 DIA W/SPL F&G	EACH	1.000				
X6700410	ENGR FLD OFF A SPL	CAL MO	6.000				
Z0013797	STAB CONSTR ENTRANCE	SQ YD	334.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0022800	FENCE REMOVAL	FOOT	1,195.000				
Z0030850	TEMP INFO SIGNING	SQ FT	52.000				
Z0042002	POROUS GRAN EMB SUBGR	CU YD	1,000.000				
Z0062456	TEMP PAVEMENT	SQ YD	9,040.000				
Z0064800	SELECTIVE CLEARING	UNIT	10.000				
* 20100110	TREE REMOV 6-15	UNIT	5,098.000				
* 20100210	TREE REMOV OVER 15	UNIT	2,283.000				
* 20101000	TEMPORARY FENCE	FOOT	8,540.000				
*ADD 20101200	TREE ROOT PRUNING	EACH	10.000				
20101300	TREE PRUN 1-10	EACH	50.000				
20101350	TREE PRUN OVER 10	EACH	50.000				

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20200100	EARTH EXCAVATION	CU YD	15,208.000				
* 20201200	REM & DISP UNS MATL	CU YD	1,248.000				
20400800	FURNISHED EXCAVATION	CU YD	1,000.000				
* 20800150	TRENCH BACKFILL	CU YD	184.000				
* 21101505	TOPSOIL EXC & PLAC	CU YD	4,612.000				
21101805	COMPOST F & P 2	SQ YD	16,931.000				
* 25000210	SEEDING CL 2A	ACRE	2.510				
*DELETE 25000310	SEEDING CL 4	ACRE	2.110				
*DELETE 25000312	SEEDING CL 4A	ACRE	0.270				
*DELETE 25000322	SEEDING CL 5A	ACRE	2.110				
* 25000400	NITROGEN FERT NUTR	POUND	646.000				
*DELETE 25000500	PHOSPHORUS FERT NUTR	POUND	525.000				
* 25000600	POTASSIUM FERT NUTR	POUND	646.000				
25100105	MULCH METHOD 1	ACRE	2.000				
25100115	MULCH METHOD 2	ACRE	2.000				

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25100125	MULCH METHOD 3	ACRE	2.000				
25100135	MULCH METHOD 4	ACRE	2.000				
25100630	EROSION CONTR BLANKET	SQ YD	65,872.000				
* 25100900	TURF REINF MAT	SQ YD	1,393.000				
*ADD 25200200	SUPPLE WATERING	UNIT	205.000				
28000200	EARTH EXC - EROS CONT	CU YD	25.000				
28000250	TEMP EROS CONTR SEED	POUND	2,282.000				
* 28000305	TEMP DITCH CHECKS	FOOT	408.000				
* 28000400	PERIMETER EROS BAR	FOOT	8,820.000				
28000500	INLET & PIPE PROTECT	EACH	2.000				
28001000	AGGREGATE - EROS CONT	TON	12.000				
* 28100103	STONE RIPRAP CL A2	SQ YD	59.000				
28100203	STONE RIPRAP CL A2	TON	13.000				
* 28200200	FILTER FABRIC	SQ YD	59.000				
40600100	BIT MATLS PR CT	GALLON	1,808.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
40600300	AGG PR CT	TON	27.100				
40601005	HMA REPL OVER PATCH	TON	60.000				
44000200	DRIVE PAVEMENT REM	SQ YD	887.000				
44000500	COMB CURB GUTTER REM	FOOT	1,043.000				
44002216	HMA RM OV PATCH 4	SQ YD	268.000				
44004250	PAVED SHLD REMOVAL	SQ YD	2,687.000				
44201749	CL D PATCH T1 9	SQ YD	5.000				
44201753	CL D PATCH T2 9	SQ YD	221.000				
50104400	CONC HDWL REM	EACH	1.000				
50105220	PIPE CULVERT REMOV	FOOT	105.000				
* 5421A012	P CUL CL A 1 12 TEMP	FOOT	32.000				
5421A024	P CUL CL A 1 24 TEMP	FOOT	16.000				
5421A030	P CUL CL A 1 30 TEMP	FOOT	12.000				
*DELETE 54213657	PRC FLAR END SEC 12	EACH	2.000				
* 54213660	PRC FLAR END SEC 15	EACH	1.000				

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54213663	PRC FLAR END SEC 18	EACH	1.000				
* 54213669	PRC FLAR END SEC 24	EACH	1.000				
*ADD 54213675	PRC FLAR END SEC 30	EACH	1.000				
54247110	GRATING-C FL END S 18	EACH	1.000				
* 54247130	GRATING-C FL END S 24	EACH	1.000				
*ADD 54247150	GRATING-C FL END S 30	EACH	1.000				
*DELETE 550A0050	STORM SEW CL A 1 12	FOOT	145.000				
* 550A0070	STORM SEW CL A 1 15	FOOT	52.000				
550A0090	STORM SEW CL A 1 18	FOOT	84.000				
550A0120	STORM SEW CL A 1 24	FOOT	59.000				
550A0340	STORM SEW CL A 2 12	FOOT	265.000				
550A0360	STORM SEW CL A 2 15	FOOT	321.000				
* 550A0410	STORM SEW CL A 2 24	FOOT	365.000				
*ADD 550A0430	STORM SEW CL A 2 30	FOOT	68.000				
60218400	MAN TA 4 DIA T1F CL	EACH	6.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*ADD 60221100	MAN TA 5 DIA T1F CL	EACH	1.000				
60500060	REMOV INLETS	EACH	2.000				
63301000	REM & REERECT SPBGR	FOOT	50.000				
*ADD 66900200	NON SPL WASTE DISPOSL	CU YD	19,000.000				
*ADD 66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
*ADD 66900530	SOIL DISPOSAL ANALY	EACH	2.000				
67100100	MOBILIZATION	L SUM	1.000				
70100450	TRAF CONT-PROT 701201	L SUM	1.000				
70100500	TRAF CONT-PROT 701326	L SUM	1.000				
70102620	TR CONT & PROT 701501	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	96.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	6.000				
70300520	PAVT MARK TAPE T3 4	FOOT	5,400.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	1,800.000				
*ADD 70400100	TEMP CONC BARRIER	FOOT	400.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78001110	PAINT PVT MK LINE 4	FOOT	5,400.000				
78200410	GUARDRAIL MKR TYPE A	EACH	2.000				

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REVISED 06/07/2011

SODDING (TYPE 1)

This work shall consist of preparing the ground surface and furnish and placing sod as specified in the plans. All work shall be in accordance with the applicable portions of Section 252 of the Standard Specifications.

Materials: The Sodding (Type 1) shall be Agrecol Native Prairie Sod or equal. The following specifications shall be met:

Available cores: photo-degradable geotextile fabric or degradable biod-mat 70

Depth: 0.75" – 1.00" for either core

Roll Size: 40" width by 13' length (43.33 SF, 4.8 SY)

Grow-out period: 12-16 weeks depending upon species selection. **Contractor shall order Sodding (Type 1) in a timely manner to assure that product and quantities are available and project is completed on time.**

Species: A core mix of the following species:

WET BOTTOM BASIN VEGETATED MAT SPECIES (water depth of 6" and deeper)

Acorus calamus (Sweet Flag)

Brasenia schreberi (Water Shield)

Polygonum amphibium stipulaceum (Water Knotweed)

Polygonum coccineum (Water Heartsease)

Pontederia cordata (Pickerel Weed)

Sagittaria latifolia (Common Arrowhead)

Scirpus acutus (Hard-Stemmed Bulrush)

Scirpus pungens (Chairmaker's Rush)

Scirpus validus var. creber (Great Bulrush)

Sium suave (Tall Water Parsnip)

Sparganium eurycarpum (Common Bur Reed)

Zizania aquatica (Wild Rice)

Article 252.06 Placing Sod – Delete the second sentence and substitute the following:

The sod shall be placed on the prepared surface with a slight overlap of the rolls/blankets to limit exposure of any soil areas and alternate courses staggered.

The sod shall be stapled with 12" inch staples like normal erosion control matting.

In addition to the applicable portions of Section 107 of the Standard Specifications, all other areas shall be restored to their conditions prior to construction. The contractor shall grade all ditch lines which are disturbed during construction to ensure proper drainage exists after construction. Restoration at locations of underground construction shall take place after the trench has settled.

Watering shall be done as directed by the Engineer, in accordance with Articles 252.08 and 252.09 of the Standard Specifications.

Method of Measurement: Sodding (Type 1) and Supplemental Watering will be measured for payment in accordance with Article 252.12.

Added 06/07/2011

Basis of Payment: Sodding will be paid for at the contract unit price per square yard (square meter) for SODDING (TYPE 1) and in accordance with Article 252.13.

Supplemental watering will be paid for at the contract unit price per unit for SUPPLEMENTAL WATERING.

SODDING (TYPE 2)

This work shall consist of preparing the ground surface and furnish and placing sod as specified in the plans. All work shall be in accordance with the applicable portions of Section 252 of the Standard Specifications.

Materials: The Sodding (Type 2) shall be Agrecol Native Prairie Sod or equal. The following specifications shall be met:

Available cores: photo-degradable geotextile fabric or degradable biod-mat 70

Depth: 0.75" – 1.00" for either core

Roll Size: 40" width by 13' length (43.33 SF, 4.8 SY)

Grow-out period: 12-16 weeks depending upon species selection. **Contractor shall order Sodding (Type 2) in a timely manner to assure that product and quantities are available and project is completed on time.**

Species: A core mix of the following species:

EMERGENT BASIN VEGETATED MAT SPECIES (water depth of 0-6")

Acorus calamus (Sweet Flag)

Carex comosa (Bristly Sedge)

Carex crinita (Fringed Sedge)

Carex lacustris (Common Lake Sedge)

Carex stipata (Common Fox Sedge)

Rumex orbiculatus (Great Water Dock)

Sagittaria latifolia (Common Arrowhead)

Scirpus acutus (Hard-Stemmed Bulrush)

Scirpus pungens (Chairmaker's Rush)

Scirpus validus var. creber (Great Bulrush)

Sium suave (Tall Water Parsnip)

Sparganium eurycarpum (Common Bur Reed)

Verbena hastata (Blue Vervain)

Zizania aquatica (Wild Rice)

Article 252.06 Placing Sod – Delete the second sentence and substitute the following:

The sod shall be placed on the prepared surface with a slight overlap of the rolls/blankets to limit exposure of any soil areas and alternate courses staggered.

The sod shall be stapled with 12" inch staples like normal erosion control matting.

In addition to the applicable portions of Section 107 of the Standard Specifications, all other areas shall be restored to their conditions prior to construction.

Added 06/07/2011

The contractor shall grade all ditch lines which are disturbed during construction to ensure proper drainage exists after construction. Restoration at locations of underground construction shall take place after the trench has settled.

Watering shall be done as directed by the Engineer, in accordance with Articles 252.08 and 252.09 of the Standard Specifications.

Method of Measurement: Sodding (Type 2) and Supplemental Watering will be measured for payment in accordance with Article 252.12.

Basis of Payment: Sodding will be paid for at the contract unit price per square yard (square meter) for SODDING (TYPE 2) and in accordance with Article 252.13.

Supplemental watering will be paid for at the contract unit price per unit for SUPPLEMENTAL WATERING.

SODDING (TYPE 3)

This work shall consist of preparing the ground surface and furnish and placing sod as specified in the plans. All work shall be in accordance with the applicable portions of Section 252 of the Standard Specifications.

Materials: The Sodding (Type 3) shall be Agrecol Native Prairie Sod or equal. The following specifications shall be met:

Available cores: photo-degradable geotextile fabric or degradable biod-mat 70

Depth: 0.75" – 1.00" for either core

Roll Size: 40" width by 13' length (43.33 SF, 4.8 SY)

Grow-out period: 12-16 weeks depending upon species selection. **Contractor shall order Sodding (Type 3) in a timely manner to assure that product and quantities are available and project is completed on time.**

Species: A core mix of the following species:

WET EDGE VEGETATED MAT SPECIES

Acorus calamus (Sweet Flag)

Asclepias incarnata (Swamp Milkweed)

Calamagrostis canadensis (Blue Joint Grass)

Carex hystericina (Porcupine Sedge)

Carex lacustris (Common Lake Sedge)

Carex pellita (Broad-Leaved Woolly Sedge)

Cicuta maculata (Water Hemlock)

Decodon verticillatus (Swamp Loosestrife)

Iris virginica var. *shrevei* (Wild Blue Iris)

Leersia virginica (Rice Cut Grass)

Lobelia cardinalis (Cardinal Flower)

Lobelia siphilitica (Great Blue Lobelia)

Mimulus ringens (Monkey Flower)

Added 06/07/2011

Article 252.06 Placing Sod – Delete the second sentence and substitute the following:

The sod shall be placed on the prepared surface with a slight overlap of the rolls/blankets to limit exposure of any soil areas and alternate courses staggered.

The sod shall be stapled with 12” inch staples like normal erosion control matting.

In addition to the applicable portions of Section 107 of the Standard Specifications, all other areas shall be restored to their conditions prior to construction. The contractor shall grade all ditch lines which are disturbed during construction to ensure proper drainage exists after construction. Restoration at locations of underground construction shall take place after the trench has settled.

Watering shall be done as directed by the Engineer, in accordance with Articles 252.08 and 252.09 of the Standard Specifications.

Method of Measurement: Sodding (Type 3) and Supplemental Watering will be measured for payment in accordance with Article 252.12.

Basis of Payment: Sodding will be paid for at the contract unit price per square yard (square meter) for SODDING (TYPE 3) and in accordance with Article 252.13.

Supplemental watering will be paid for at the contract unit price per unit for SUPPLEMENTAL WATERING.

SEEDING, CLASS 4 (MODIFIED) UPLAND AREA

All work, materials, and equipment shall conform to Section 250 and 1081 of the Standard Specifications except as modified herein.

The Class 4 (Modified) Upland Area seed mix shall be supplied in separate bags of the two mix components: Cover Crop and Native Grasses/Sedges. All native species will be local genotype and will be from a radius of 150 miles from the site. Fertilizer is not required.

Article 250.07 Seeding Mixtures – Delete the fourth sentence. Add the following to Table 1:

Class 4 (Modified) Upland Area

<u>Seeds</u>	<u>lbs/acre</u>
<i>Andropogon gerardii</i> (Big Bluestem)	0.63
<i>Andropogon scoparius</i> (Little Bluestem)	2.0132
<i>Bouteloua curtipendula</i> (Side-oats Grama)	2.0132
<i>Bromus kalmia</i> (Prairie Brome Grass)	1.2572
<i>Carex bicknellii</i> (Copper-shouldered Oval Sedge)	0.126
<i>Carex brevior</i> (Plains Oval Sedge)	0.378
<i>Carex stipata</i> (Common Fox Sedge)	0.378
<i>Elymus canadensis</i> (Canada Wild Rye)	1.2572
<i>Elymus virginicus</i> (Virginia Wild Rye)	0.63
<i>Spartina pectinata</i> (Prairie Cord Grass)	0.0308

Added 06/07/2011

Cover Crop

Echinochloa crus-galli (Barnyard Grass)

25

Notes:

1. The seeding time for this work shall be October 15 to April 30. Seeding done outside of this time frame will not be measure for payment.
2. The seedbed shall be prepared by the Contractor and be approved by the Engineer prior to seeding. The Contractor shall delineate the perimeter of the seedbed with wooden lathe. The wooden lathe shall remain in place.
3. The Cover Crop shall consist of seed according to Article 1081.04 and shall consist of Barnyard Grass from March 1 to April 30 and from October 15 to November 15. The Temporary Cover seed shall be thoroughly mixed with the Native Grasses/Sedge seed uniformly seeded at a depth of 1/8 inch with a rangeland type grass drill. The seedbed shall be immediately mulched as specified and lightly compacted with a roller.
4. Purity and germination tests no older than twelve months old must be submitted for all seed supplied to verify quantities of bulk seed required to achieve LB PLS specified.

Article 250.09 – Add Seeding, Class 4 (Modified) Upland Area

Article 250.10 – Add Seeding, Class 4 (Modified) Upland Area

SEEDING, CLASS 5 (MODIFIED) UPLAND AREA

All work, materials, and equipment shall conform to Section 250 and 1081 of the Standard Specifications except as modified herein.

All native species will be local genotype and will be from a radius of 150 miles from the site. The Class 5 (Modified) Upland Area seed mix shall be supplied with the appropriate inoculants. Fertilizer is not required.

Article 250.07 Seeding Mixtures – Delete the fourth sentence. Add the following to Table 1:

Class 5 (Modified) Upland Area

<u>Seeds</u>	<u>lbs/acre</u>
<i>Agastache foeniculum</i> (Blue Giant Hyssop)	0.126
<i>Agastache nepetoides</i> (Yellow Giant Hyssop)	0.0616
<i>Agastache scrophulariaefolia</i> (Purple Giant Hyssop)	0.0616
<i>Allium cernuum</i> (Nodding Wild Onion)	0.378
<i>Amporha canescens</i> (Lead Plant)	0.252
<i>Anemone canadensis</i> (Meadow Anemone)	0.0616
<i>Anemone caroliniana</i> (Carolina Anemone)	0.0308
<i>Anemone virginiana</i> (Tall Anemone)	0.126
<i>Artemesia ludoviciana</i> (White Sage)	0.0616
<i>Asclepias incarnata</i> (Swamp Milkweed)	0.252
<i>Asclepias tuberosa</i> (Butterfly Weed)	0.0308

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<u>Seeds</u> (continued)	<u>lbs/acre</u>
<i>Asclepias verticillata</i> (Whorled Milkweed)	0.0616
<i>Aster azureus</i> (Sky-Blue Aster)	0.126
<i>Aster ericoides</i> (Heath Aster)	0.0112
<i>Aster laevis</i> (Smooth Blue Aster)	0.252
<i>Aster novae-angliae</i> (New England Aster)	0.252
<i>Aster oblongifolius</i> (Aromatic Aster)	0.126
<i>Aster ptarmicoides</i> (Stiff Aster)	0.252
<i>Astragalus canadensis</i> (Canadian Milk Vetch)	0.0616
<i>Baptisia leucantha</i> (White Wild Indigo)	0.504
<i>Baptisia leucophaea</i> (Cream Wild Indigo)	0.126
<i>Boltonia decurrens</i> (Decurrent False Aster)	0.126
<i>Cacalia atriplicifolia</i> (Pale Indian Plantain)	0.0616
<i>Cacalia plantaginea</i> (Prairie Indian Plantain)	0.0616
<i>Cassia fasciculata</i> (Partridge Pea)	0.504
<i>Ceanothus americanus</i> (New Jersey Tea)	0.0868
<i>Coreopsis tripteris</i> (Tall Tickseed)	0.252
<i>Desmanthus illinoensis</i> (Illinois Sensitive Plant)	0.126
<i>Desmodium canadense</i> (Showy Tick Trefoil)	0.0644
<i>Desmodium illinoiense</i> (Illinois Tick Trefoil)	0.0616
<i>Dodecatheon meadia</i> (Shooting Star)	0.0952
<i>Echinacea pallida</i> (Pale Purple Coneflower)	0.8792
<i>Echinacea purpurea</i> (Purple Coneflower)	0.378
<i>Eryngium yuccifolium</i> (Rattlesnake Master)	0.504
<i>Galium boreale</i> (Northern Bedstraw)	0.0616
<i>Gaura biennis</i> (Biennial Gaura)	0.126
<i>Gentiana andrewsii</i> (Bottle Gentian)	0.1568
<i>Gentiana flavida</i> (Cream Gentian)	0.1568
<i>Gentiana quinquefolia</i> (Stiff Gentian)	0.0616
<i>Helianthus laetiflorus</i> (Showy Sunflower)	0.126
<i>Heliopsis helianthoides</i> (False Sunflower)	0.126
<i>Hypericum pyramidatum</i> (Great St. John's Wort)	0.126
<i>Lespedeza capitata</i> (Round-headed Bush Clover)	0.126
<i>Liatris ligulistylis</i> (Meadow Blazing Star)	0.126
<i>Liatris pycnostachya</i> (Prairie Blazing Star)	0.252
<i>Liatris spicata</i> (Marsh Blazing Star)	0.63
<i>Lobelia siphilitica</i> (Great Blue Lobelia)	0.126
<i>Monarda fistulosa</i> (Wild Bergamot)	0.252
<i>Parthenium integrifolium</i> (Wild Quinine)	0.504
<i>Penstemon digitalis</i> (Foxglove Beardtongue)	0.252
<i>Petalostemum candidum</i> (White Prairie Clover)	0.378
<i>Petalostemum purpureum</i> (Purple Prairie Clover)	0.378
<i>Physostegia angustifolia</i> (Narrow-leaved Dragonhead)	0.126

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<u>Seeds</u> (continued)	<u>lbs/acre</u>
<i>Physostegia virginiana</i> (False Dragonhead)	0.252
<i>Pycnanthemum virginianum</i> (Common Mountain Mint)	0.126
<i>Ratibida pinnata</i> (Yellow Coneflower)	0.252
<i>Rosa arkansana</i> (Prairie Rose)	0.126
<i>Rudbeckia hirta</i> (Black-eyed Susan)	0.504
<i>Rudbeckia speciosa sullivantii</i> (Showy Black-eyed Susan)	0.252
<i>Rudbeckia submentosa</i> (Sweet Black-eyed Susan)	0.126
<i>Rudbeckia triloba</i> (Brown-eyed Susan)	0.378
<i>Ruellia humilis</i> (Wild Petunia)	0.378
<i>Silphium integrifolium</i> (Rosin Weed)	0.126
<i>Silphium laciniatum</i> (Compass Plant)	0.126
<i>Silphium perfoliatum</i> (Cup Plant)	0.0616
<i>Silphium terbinthinaceum</i> (Prairie Dock)	0.126
<i>Solidago rigida</i> (Stiff Goldenrod)	0.126
<i>Solidago speciosa</i> (Showy Goldenrod)	0.126
<i>Thalictrum dasycarpum</i> (Purple Meadow Rue)	0.252
<i>Tradescantia ohiensis</i> (Common Spiderwort)	0.252
<i>Verbena hastata</i> (Blue Vervain)	0.252
<u>Seeds</u> (continued)	<u>lbs/acre</u>
<i>Verbena stricta</i> (Hoary Vervain)	0.252
<i>Vernonia fasciculata</i> (Common Ironweed)	0.126
<i>Veronicastrum virginicum</i> (Culver's Root)	0.126
<i>Zizia aurea</i> (Golden Alexander)	0.504

Notes:

1. The seeding time for this work shall be October 15 to April 30. Seeding done outside of this time frame will not be measure for payment.
2. The seedbed shall be prepared and approved by the Engineer prior to seeding. The Contractor shall delineate the perimeter of the seedbed with wooden lathe. The wooden lathe shall remain in place.
3. Purity and germination tests no older than twelve months old must be submitted for all seed supplied to verify quantities of bulk seed required to achieve LB PLS specified.

Article 250.09 – Add Seeding, Class 5 (Modified) Upland Area

Article 250.10 – Add Seeding, Class 5 (Modified) Upland Area

TURF REINFORCEMENT MAT

Modify the table of Section 1081.10 (g) of Supplemental Specification to read the following:

Added 06/07/2011

The TRM shall meet the following physical and performance properties:

Property	Value	Test Method
Tensile Strength, lb/ft (kN/m)	620 min.	ASTM D 6818
UV Stability, (% Tensile Retained)	100 min.	ASTM D 4355 (1000 Hour Exposure)
Resiliency, (% Thickness Retained)	95 min.	ASTM D 6524
Allowable Shear Stress, lb/sq ft (Pa) ^{1/}	8 (384)	ECTC approved test method and independent laboratory

Material: Turf Reinforcement Mat shall consist of a straw and coconut fiber matrix stitched with UV stabilized polypropylene thread on 1.5” centers to an upper high strength UV stabilized polypropylene net, a middle 3-D corrugated UV stabilized polypropylene net, and a lower high strength UV stabilized polypropylene net.

Turf Reinforcement Mat shall meet the following criteria:

1. Upper and lower nets – black polypropylene 5.0 lbs / 1,000 sq. ft. approx. weight.
2. Middle net – black corrugated polypropylene 24.0 lbs / 1,000 sq. ft. approx. weight.
3. Matrix – 70% straw fiber 0.35 lbs / sq. yd. and 30% coconut fiber 0.15 lbs / sq. yd.
4. Thread – permanent.

Wire Staples

Material: Wire staples used with Turf reinforcement mat shall be minimum 11 GA, 6” in length.

TEMPORARY EROSION CONTROL SEEDING

The Temporary Erosion Control Seeding shall conform to Article 280.04 (f) and Article 1081.04.

Revise the second sentence of Article 1081.15 (g) to read “Seeds shall consist of Barnyard Grass from March 1 to July 31 and from August 1 to November 15.”

Added 06/07/2011