

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
344	(46-1S&47) WRS-3	LAKE	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	60957

D-91-209-00
CONTRACT NO. 60957

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF GRAYSLAKE, AVON TOWNSHIP, FREEMONT TOWNSHIP, LIBERTYVILLE TOWNSHIP AND WARREN TOWNSHIP

TRAFFIC DATA
POSTED SPEED: 45 MPH
DESIGN SPEED: 50 MPH
CURRENT ADT (2007): 24,400
DESIGN ADT (2030): 48,150

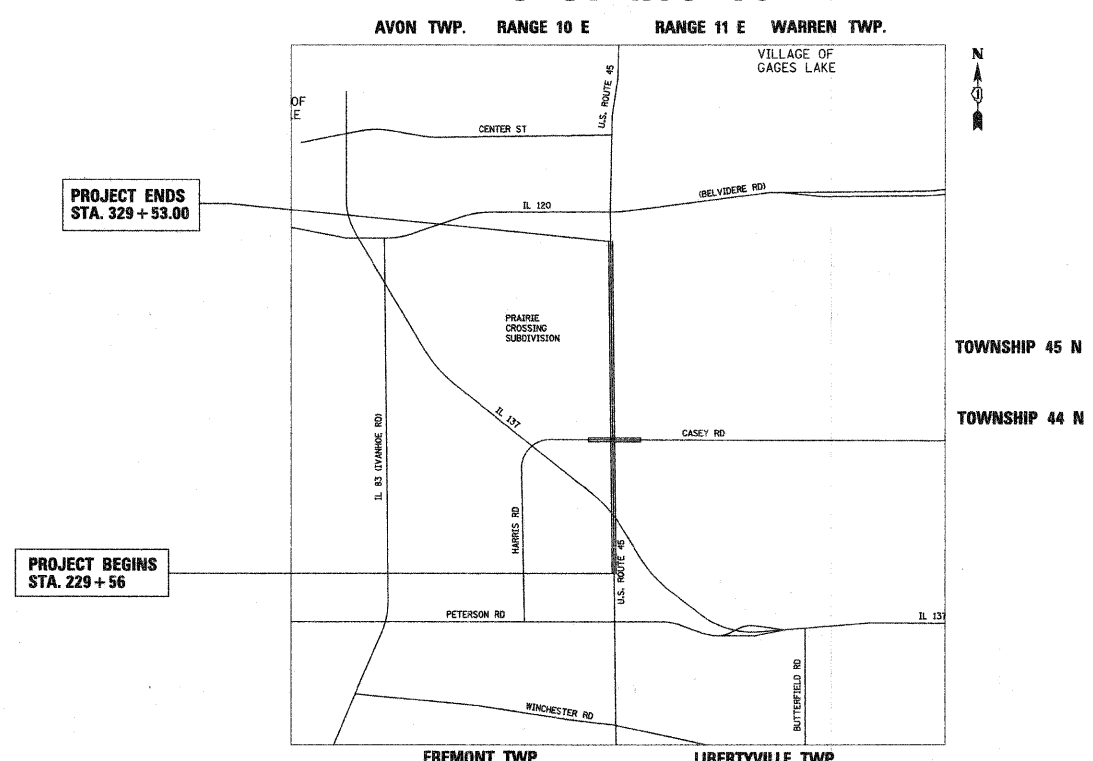
DESIGN DESIGNATION
MAJOR ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 344 — U.S. ROUTE 45
Section No.: (46-1S&47)WRS-3
ILLINOIS ROUTE 137 (BUCKLEY RD)
TO SOUTH OF ILLINOIS ROUTE 120 (BELVIDERE ROAD)
ROADWAY RECONSTRUCTION AND RESURFACING
TRAFFIC SIGNAL MODERNIZATION

Project No.: F-0344 (049)
LAKE COUNTY
C-91-209-00



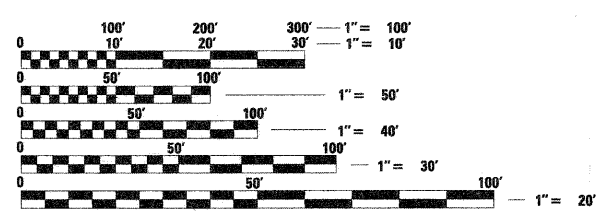
PROJECT ENDS
STA. 329 + 53.00

PROJECT BEGINS
STA. 229 + 56

LOCATION MAP

SCALE: 1" = 2500'

PROJECT GROSS AND NET LENGTH (U.S. ROUTE 45) = 9,997 FT (1.89 MILES)



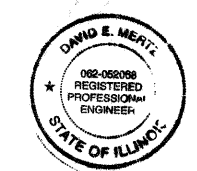
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 60957



SIGNED: *Matthew A. Papirnik*
DATE: 12/12/2008
EXPIRES: Nov 30 2009
FOR DRAWINGS: ALL BUT PAGE 80, 81



SIGNED: *David E. Mertz*
DATE: 12 DECEMBER 2008
EXPIRES: 30 November 2009
FOR DRAWINGS: 106 to 116

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: JANUARY 9, 20 09

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

January 30, 20 09
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

IDOT PROJECT MANAGER -- BRIAN KUTTAB (847) 705-4431 (DISTRICT 1)

Rev.
4-7-09

CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	URBAN TOTAL QUANTITY	CONSTRUCTION CODE				
				1000-2A ROADWAY	Y031-1F TRAFFIC SIGNALS - CASEY RD 51 LIBERTYVILLE	Y031-1F TRAFFIC SIGNALS - ARBOR BLVD 51 WARREN TWP.	Y031-1F TRAFFIC SIGNAL INTERCONNECT	1000-2A ROADWAY
				80% FED 20% STATE	80% FED 10% STATE 5% LAKE CTY	80% FED 10% STATE 5% GRAYSLAKE	80% FED 20% STATE	100% STATE
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		4	4		
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	120		60	60		
* 87900200	DRILL EXISTING HANDHOLE	EACH	1				1	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8		4	4		
* 88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	4		0	4		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	12		8	4		
* 88200100	TRAFFIC SIGNAL BACKPLATE	EACH	24		12	12		
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	20		10	10		
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	68		0	68		
* 88700200	LIGHT DETECTOR **	EACH	5		2	3		
* 88700300	LIGHT DETECTOR AMPLIFIER **	EACH	2		1	1		
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1		
* 89502380	REMOVE EXISTING HANDHOLE	EACH	2			2		
* A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY) 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3		3			
* A2000320	TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5		5			
* A2002820	TREE, CATALPA SPECIOSA (NORTHERN CATALPA) 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9		9			
* A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEE TREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9		9			
* A2004720	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11		11			
* A2007920	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	21		21			
* A2006522	TREE, ULMUS PARVIFOLIA 'ALLEE' (ALLEE LACEBARK ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4		4			
* A2002470	TREE, BETULA NIGRA HERITAGE (HERITAGE RIVER BIRCH), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	7		7			
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	8		8			
* B2006270	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	10		10			
* C2C06265	SHRUB, RHUS TYPHINA "TIGER EYES" (TIGER EYES CUTLEAF STAGHORN SUMAC), CONTAINER GROWN, 5-GALLON	EACH	15		15			
* A2018720	TREE, ULMUS CARPINIFOLIA MORTON, (ACCOLADE ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	13		13			

** PAID FOR 100% BY GRAYSLAKE FIRE PROTECTION DISTRICT - Y031-10

Rev. 4-7-09

FILE NAME =	USER NAME = #USER#	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - JRH	REVISED -			344	(46-1S&47)WRS-3	LAKE	176	12	
	PLOT SCALE = #SCALE#	CHECKED - JW	REVISED -			U.S. ROUTE 45 RECONSTRUCTION CONTRACT NO.					
	PLOT DATE = #DATE#	DATE - 01-03-08	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
					SCALE: NONE	SHEET NO. 9 OF 11 SHEETS		STA.	TO STA.		

CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	URBAN TOTAL QUANTITY	CONSTRUCTION CODE				
				1000-2A ROADWAY	Y031-1F TRAFFIC SIGNALS - CASEY RD	Y031-1F TRAFFIC SIGNALS - ARBOR BLVD	Y031-1F TRAFFIC SIGNAL INTERCONNECT	1000-2A ROADWAY
				80% FED 20% STATE	80% FED 10% STATE 5% LAKE CTY 5% LIBERTYVILLE	80% FED 10% STATE 5% GRAYSLAKE 5% WARREN TWP	80% FED 20% STATE	100% STATE
* C22058G3	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), CONTAINER GROWN, 3-GALLON	EACH	51	51				
* C2011936	SHRUB, VIBURNUM DENTATUM RALPH SENIOR (AUTUMN JAZZ ARROWHEAD VIBURNUM), 3' HEIGHT, BALLED AND BURLAPPED	EACH	56	56				
* C2002634	SHRUB, EUONYMUS ALATA COMPACTA (DWARF WINGED EUONYMUS), 3' HEIGHT, BALLED AND BURLAPPED	EACH	90	90				
B2005466	TREE, PRUNUS VIRGINIANA SCHUBERT (SCHUBERT CHOKEBERRY), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	10	10				
B2006116	TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	14	14				
B2006216	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	13	13				
B2006366	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	10	10				
* X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51	51			0	
* X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6,590				6,590	
* X0323670	PREFORMED DETECTOR LOOP	FOOT	1,768		1,062	706		
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	45,708	45,708				
X0325837	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH	FOOT	1,141	1,141				
X0325840	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12 INCH	FOOT	527	527				
X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	533	533				
X0325842	WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	582	582				
* X0325890	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1				1	
X0712400	TEMPORARY PAVEMENT	SQ YD	10,285	10,285				
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	3,725	3,725				
* X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1			
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1		
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	2		1	1		

* INDICATES SPECIALTY ITEM

Rev. 4-7-09

FILE NAME =	USER NAME = #USER#	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - JRH	REVISED -						344	(46-1S&47)WRS-3	LAKE	176	13
	PLOT SCALE = #SCALE#	CHECKED - JW	REVISED -		SCALE: NONE SHEET NO. 10 OF 11 SHEETS STA. TO STA.				U.S. ROUTE 45 RECONSTRUCTION CONTRACT NO.				
	PLOT DATE = #DATE#	DATE - 01-03-08	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

CODED PAY ITEM NUMBER	DESCRIPTION	UNIT OF MEASURE	URBAN TOTAL QUANTITY	CONSTRUCTION CODE				
				J000-2A ROADWAY	Y031-1F TRAFFIC SIGNALS - CASEY RD 5% LIBERTYVILLE 80% FED 10% STATE 5% LAKE CTY	Y031-1F TRAFFIC SIGNALS - ARBOR BLVD 5% WARREN TWP 80% FED 10% STATE 5% GRAYSLAKE	Y031-1F TRAFFIC SIGNAL INTERCONNECT	ROADWAY
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO 6 1C	FOOT	2,129		1,096	1,033		
* X8730275	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C **	FOOT	744		304	440		
* XX003660	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM24F SM12F	FOOT	6,590				6,590	
54247090	GRATING FOR CONCRETE FLARED END SECTION, 12"	EACH	8	8				
XX005656	INLET FILTER CLEANING	EACH	600					600
XX005746	TREE, ULMUS AMERICANA (AMERICAN ELM) 2" CALIPER, BALLED AND BURLAPPED	EACH	17	17				
XZ030260	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6				
XZ030256	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4				
XZ030258	IMPACT ATTENUATORS, REPLACEMENT (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				
Z0001050	AGGREGATE SUBGRADE, 12"	SQ YD	63,979	63,979				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	42	20				22
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	11					11
Z0018900	DRILL AND GROUT DOWEL BARS	EACH	743	743				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0				1
A2007252	TREE, ROBINIA PSEUDOCACIA 'CHICAGO BLUE', (CHICAGO BLUE BLACK LOCUST), 2" CALIPER, BALLED AND BURLAPPED	EACH	14	14				
20076000	TRAINEES	HOUR	2000	2000				
X0326289	MANHOLES, SPECIAL, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	9				

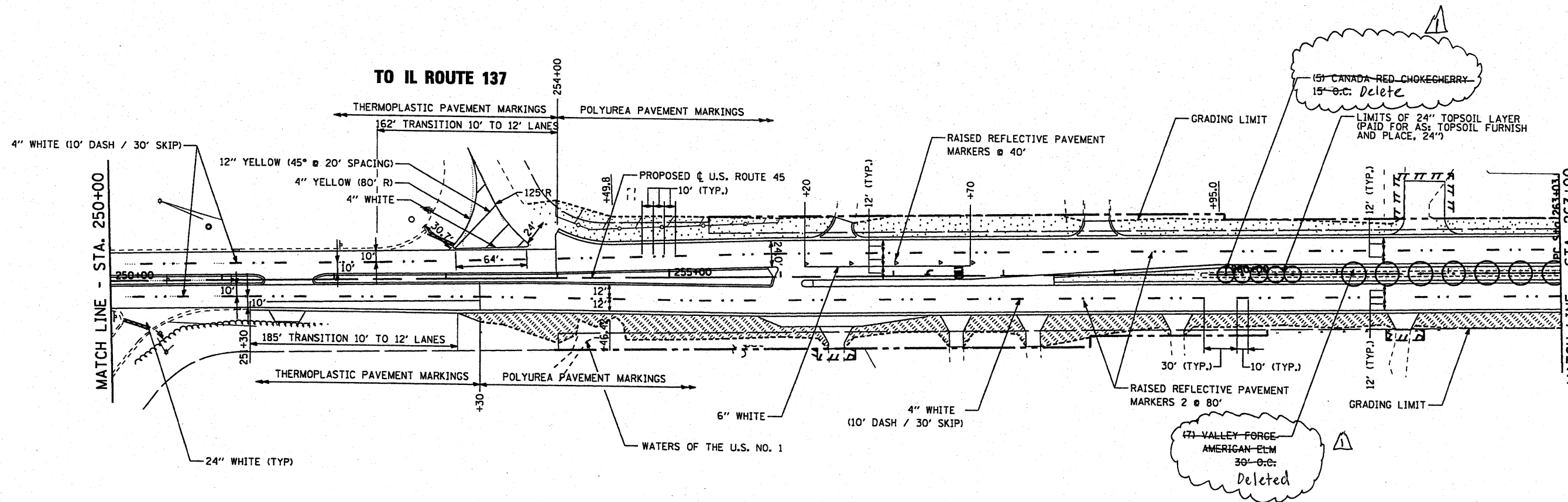
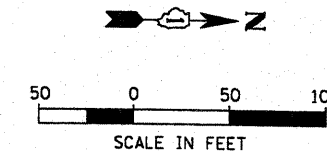
K0030404	PERENNIAL, RUDBECKIA FULGIDA 'GOLDSTURM', (GOLDSTURM BLACK EYED SUSAN), 1-GALLON	EACH	114	114
K0030411	PERENNIAL, ECHINACEA PURPUREA 'MAGNUS', (MAGNUS PURPLE CONEFLOWER), 1-GALLON	EACH	209	209
K0030401	PERENNIAL PLANTS, CALAMAGROSTIS ACUTIFOLIA "KARL FORSTER" (FEATHER REED GRASS), 1-GALLON	EACH	159	159
K0039126	HEMEROCALLIS 'HAPPY RETURNS' (HAPPY RETURNS DAYLILY), 1-GALLON	EACH	176	176
X0322852	PERENNIAL, ASTER NOVAE-ANGLIAE "PURPLE DOME", (PURPLE DOME ASTER), 1 GALLON	EACH	127	127
XX006610	GRASSES, SCHIZACHYRUM SCOPARIUM (LITTLE BLUESTEM), 1-GALLON	EACH	210	210

** PAID FOR 100% BY GRAYSLAKE FIRE PROTECTION DIST. Y031-3D
© Y080

* INDICATES SPECIALTY ITEM

FILE NAME =	USER NAME = #USER#	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JRH	REVISED -		SCALE: NONE	SHEET NO. 11 OF 11 SHEETS	STA.	TO STA.	344	(46-1S&47WRS-3)	LAKE	176	14
		CHECKED - JW	REVISED -						U.S. ROUTE 45 RECONSTRUCTION CONTRACT NO.				
		DATE - 01-03-08	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				






Rev. 4-7-09



NOTES

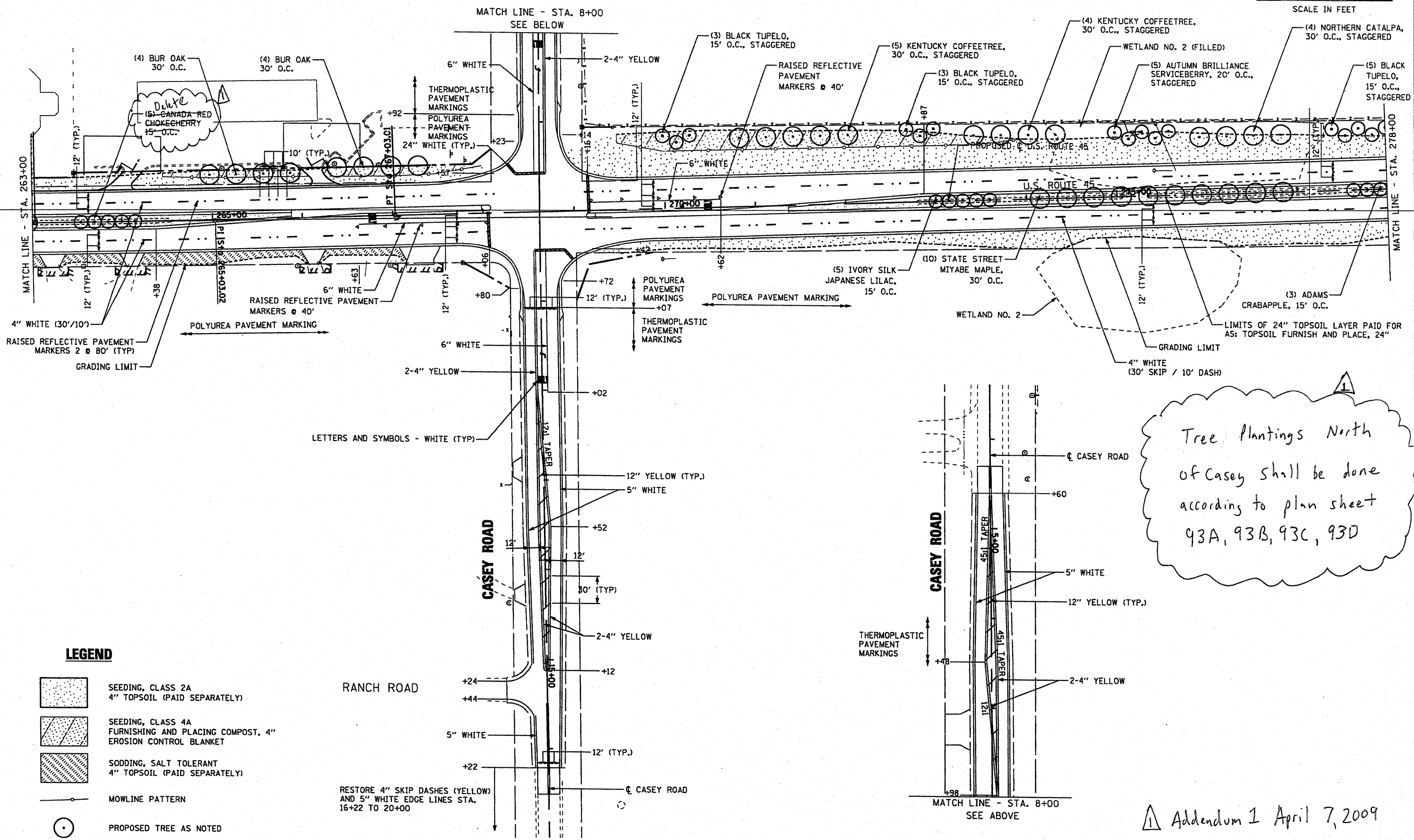
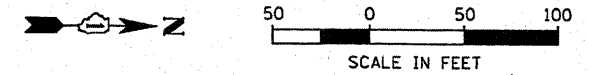
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA TYPE 1.
2. RAISED REFLECTIVE PAVEMENT MARKERS AND PAVEMENT MARKINGS SHALL BE PLACED AS PER DISTRICT STANDARDS TC-11 AND TC-13 UNLESS OTHERWISE NOTED.

LEGEND

-  SEEDING, CLASS 2A
4" TOPSOIL (PAID SEPARATELY)
-  SEEDING, CLASS 4A
FURNISHING AND PLACING COMPOST, 4"
EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
4" TOPSOIL (PAID SEPARATELY)
-  MOWLINE PATTERN
-  PROPOSED TREE AS NOTED

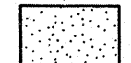




1 Addendum 1 April 7, 2009

FILE NAME =	USER NAME = *USER*	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING & LANDSCAPING PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE#		DRAWN - JRH	REVISED -					344	(46-1S&47)WRS-3	LAKE	176	90	
		CHECKED - JW	REVISED -					U.S. ROUTE 45 RECONSTRUCTION			CONTRACT NO. 60957		
		DATE - 12-12-08	REVISED -					SCALE: 1" = 50'			SHEET NO. 2 OF 5 SHEETS STA. 249+00 TO STA. 263+00		



Tree plantings North of Casey shall be done according to plan sheet 93A, 93B, 93C, 93D

LEGEND

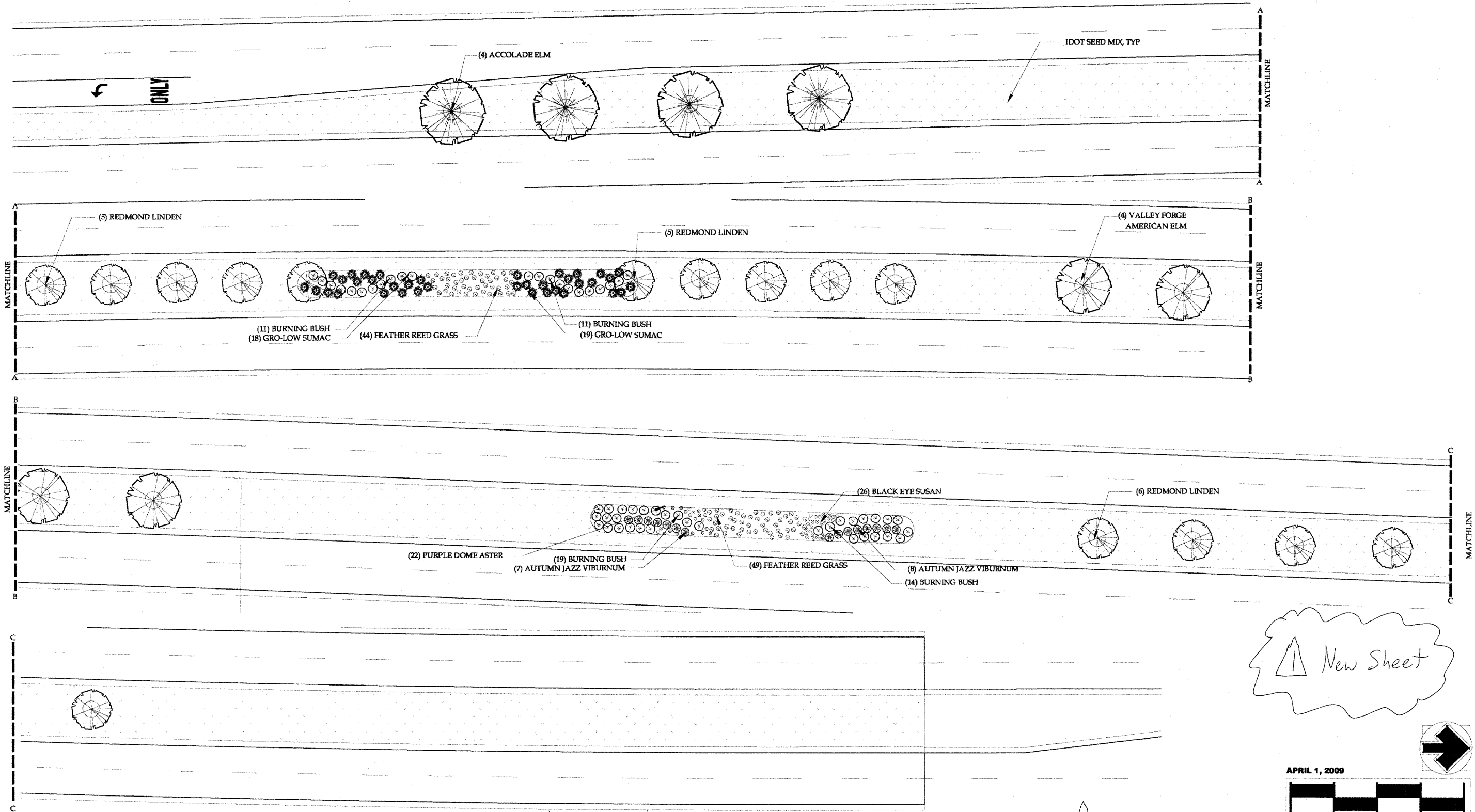
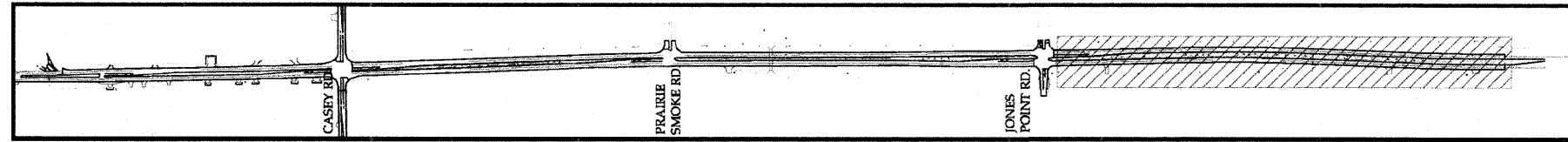
-  SEEDING, CLASS 2A
4" TOPSOIL (PAID SEPARATELY)
-  SEEDING, CLASS 4A
FURNISHING AND PLACING COMPOST, 4"
EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
4" TOPSOIL (PAID SEPARATELY)
-  MOWLINE PATTERN
-  PROPOSED TREE AS NOTED

RESTORE 4" SKIP DASHES (YELLOW) AND 5" WHITE EDGE LINES STA. 16+22 TO 20+00

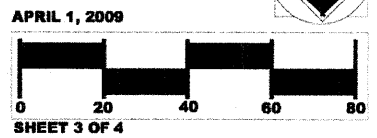
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#FILE#		DRAWN - JRH	REVISED -			344	(46-1S&47)WRS-3	LAKE	176	91
		CHECKED - JW	REVISED -			U.S. ROUTE 45 RECONSTRUCTION		CONTRACT NO. 60957		
		DATE - 12-12-08	REVISED -	SCALE: 1" = 50'		SHEET NO. 3 OF 5 SHEETS		STA. 263+00 TO STA. 278+00		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

△ Addendum 1 April 7, 2009

VILLAGE OF GRAYSLAKE ROUTE 45 MEDIAN PLANTING



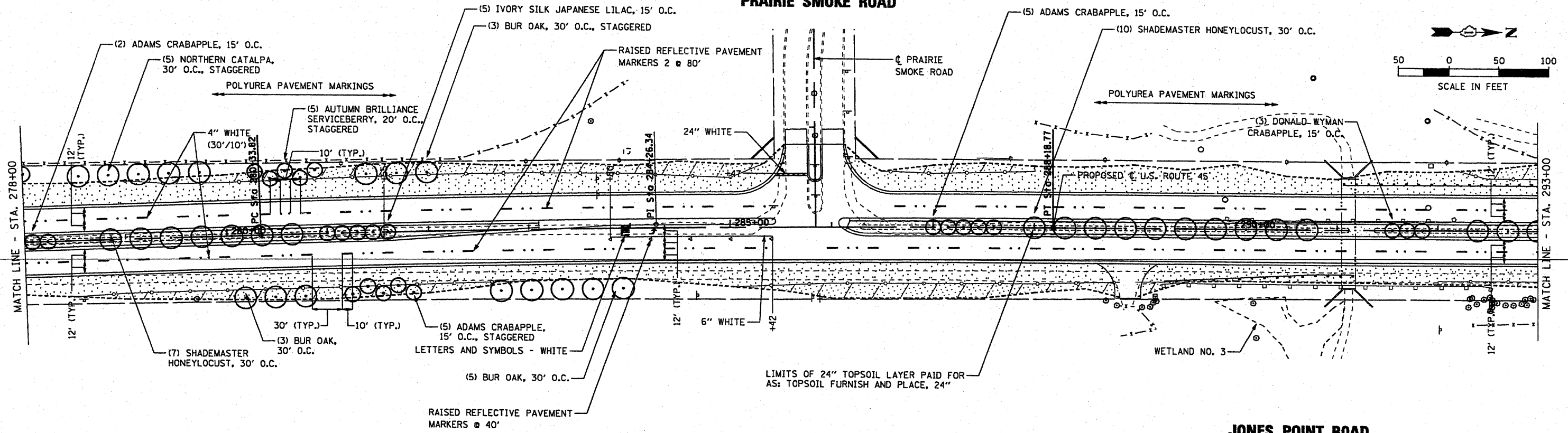
▲ New Sheet



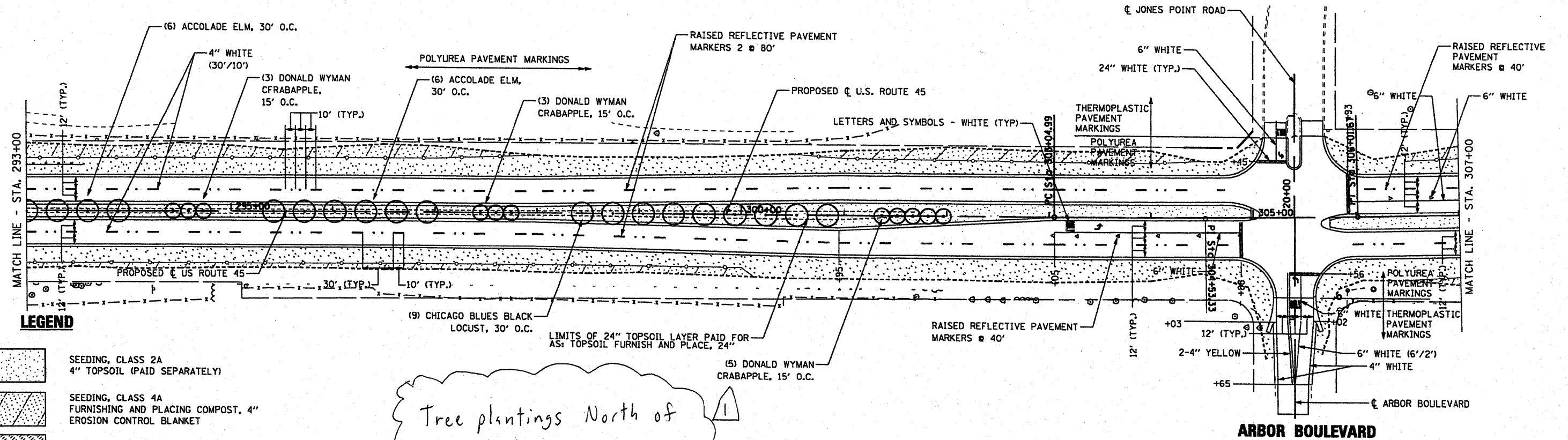
▲ Addendum 1 April, 2009

FILE NAME = W:\emai1\US45\RT45MedianPlanting.dgn	USER NAME = lejan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Landscaping Plan	F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -			344	146-15047) WRS-3	Lake	176	93C
	PLOT DATE = 4/6/2009	CHECKED -	REVISED -			U.S. Route 45 Reconstruction		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60957	
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.		

PRAIRIE SMOKE ROAD



JONES POINT ROAD



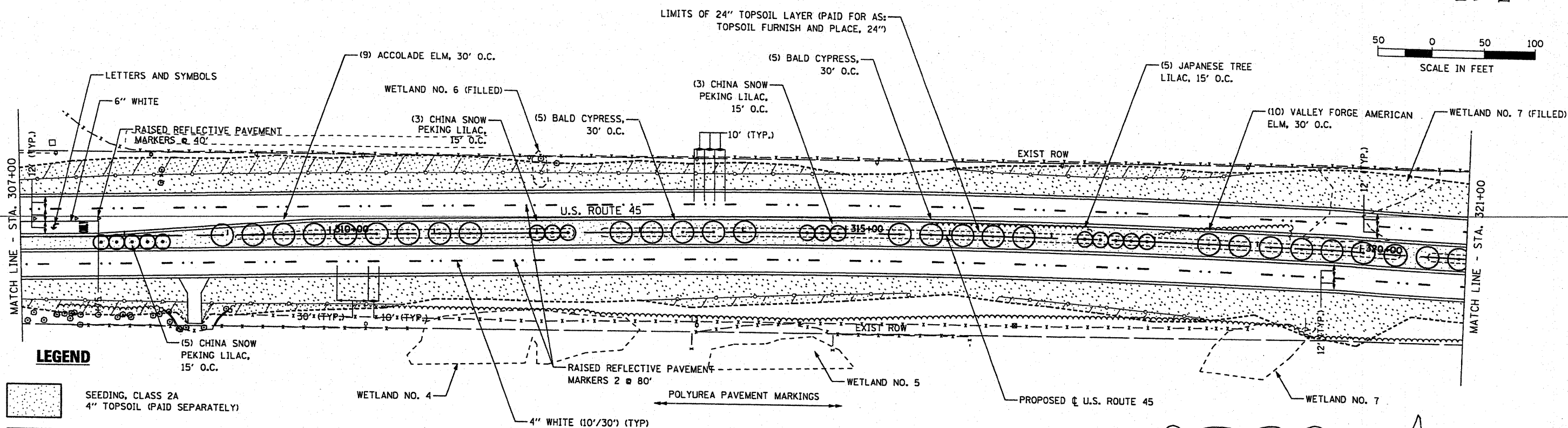
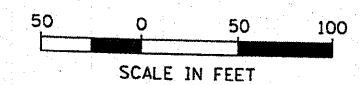
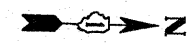
LEGEND

- SEEDING, CLASS 2A
4" TOPSOIL (PAID SEPARATELY)
- SEEDING, CLASS 4A
FURNISHING AND PLACING COMPOST, 4"
EROSION CONTROL BLANKET
- SODDING, SALT TOLERANT
4" TOPSOIL (PAID SEPARATELY)
- MOWLINE PATTERN
- PROPOSED TREE AS NOTED

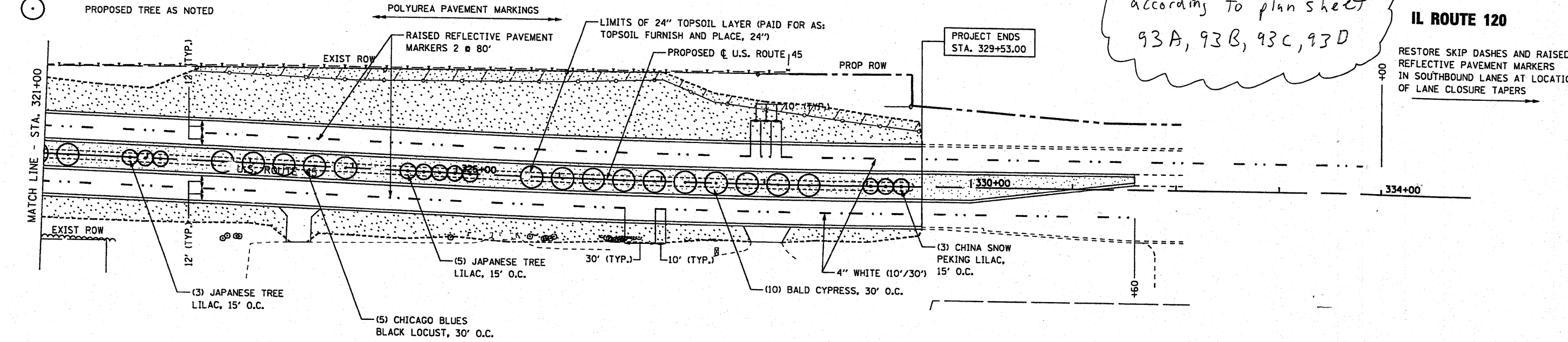
Tree plantings North of Casey Road shall be done according to plan sheet 93A, 93B, 93C, 93D

1 Addendum 1 April 7, 2009

FILE NAME =	USER NAME = #USER#	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING & LANDSCAPING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - JRH	REVISED -			344	(46-15&47)WRS-3	LAKE	176	92	
PLOT SCALE = #SCALE#		CHECKED - JW	REVISED -			U.S. ROUTE 45 RECONSTRUCTION		CONTRACT NO. 60957			
PLOT DATE = #DATE#		DATE - 12-12-08	REVISED -			SCALE: 1" = 50'		SHEET NO. 4 OF 5 SHEETS		STA. 278+00 TO STA. 307+00	



- LEGEND**
- SEEDING, CLASS 2A
4\"/>
 - SEEDING, CLASS 4A
FURNISHING AND PLACING COMPOST, 4\"/>
 - SODDING, SALT TOLERANT
4\"/>
 - MOWLINE PATTERN
 - PROPOSED TREE AS NOTED



Tree plantings North of Casey Road shall be done according to plan sheet 93A, 93B, 93C, 93D

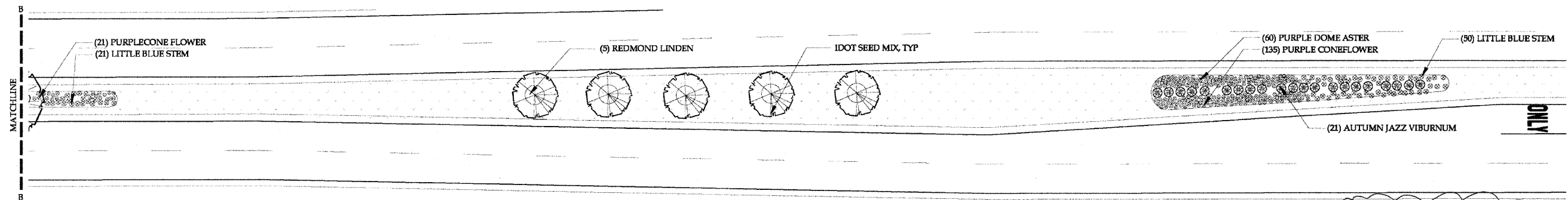
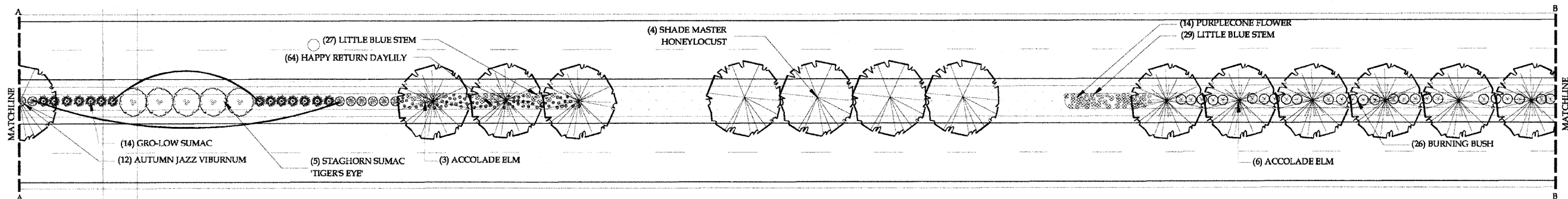
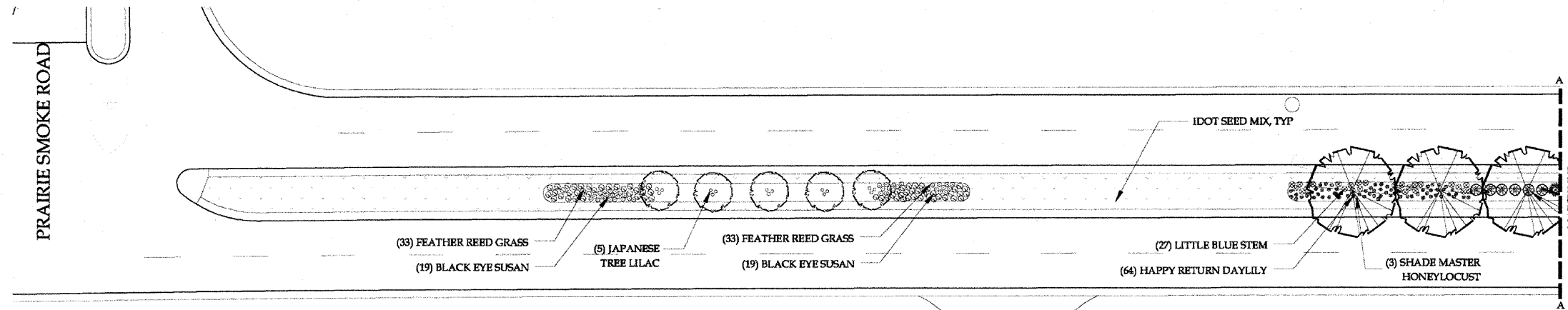
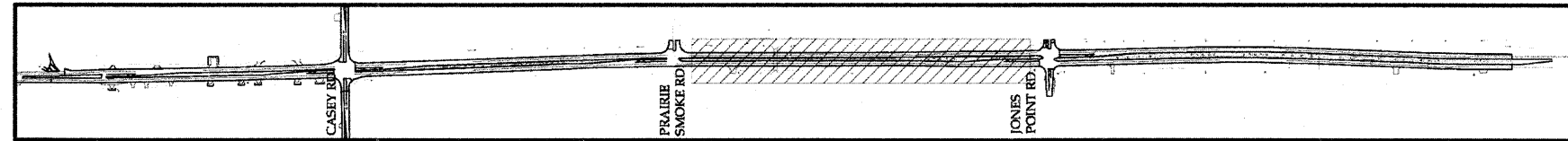
△ Addendum 1 April 7, 2009

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - MAP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING & LANDSCAPING PLAN	F.A.P. RTE. 344	SECTION 146-1S&47WRS-3	COUNTY LAKE	TOTAL SHEETS 176	SHEET NO. 93	
	PLOT SCALE = #SCALE#	DRAWN - JRH	REVISED -			SCALE: 1" = 50'	SHEET NO. 5 OF 5 SHEETS	U.S. ROUTE 45 RECONSTRUCTION	CONTRACT NO. 60957		
	PLOT DATE = #DATE#	CHECKED - JW	REVISED -			STA. 307+00	TO STA. 334+00	FED. ROAD DIST. NO.			
		DATE - 12-12-08	REVISED -								

VILLAGE OF GRAYSLAKE ROUTE 45 MEDIAN PLANTING



529 N. BARRON BLVD.
GRAYSLAKE, IL 60030
847.223.1891
847.223.1892 (FAX)
info@3lddesignstudio.com



▲ New Sheet



APRIL 1, 2009

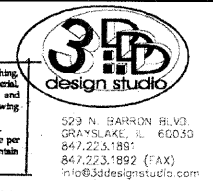


▲ Addendum 1 April 7, 2009

FILE NAME = W:\vma\1\US45\Rt45MedianPlanting.dgn	USER NAME = lqjso	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Landscaping Plan	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			344	(46-15 847) WRS-3	Lake	176	93	
	PLOT DATE = 4/6/2009	CHECKED -	REVISED -			U.S. 45 Reconstruction					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: SHEET NO. OF SHEETS STA. TO STA.						CONTRACT NO. 60957					

VILLAGE OF GRAYSLAKE

ROUTE 45 MEDIAN PLANTING



SHADE TREES			
COMMON NAME	BOTANICAL NAME	QUANT	SIZE
Hackberry	<i>Celtis occidentalis</i>	3	2.5" BB
Kentucky Coffee Tree	<i>Gymnocladus dioica</i>	9	2.5" BB
Northern Catalpa	<i>Catalpa speciosa</i>	9	2.5" BB
"Shade Master" Honeylocust	<i>Gleditsia triacanthos "Shade Master"</i>	11	2.5" BB
Accolade Elm	<i>Ulmus 'Accolade'</i>	13	2.5" BB
"Redmond" Linden	<i>Tilia americana "Redmond"</i>	21	2.5" BB
Alle Lacey Elm	<i>Ulmus parvifolia 'Allee'</i>	4	2.5" BB
"State Street" Miyabe Maple	<i>Acer miyabei "Morton"</i>	5	2.5" BB
ORNAMENTAL TREES			
Japanese Tree Lilac	<i>Syringa reticulata</i>	10	8' BB
"Heritage" River Birch	<i>Betula nigra "Heritage"</i>	7	8' BB
Tiger Eyes" Staghorn Sumac	<i>Rhus typhina "Baltiger"</i>	15	3' #5GAL
SHRUBS			
Gro-Low Sumac	<i>Rhus aromatica "Gro-Low"</i>	51	24" #3GAL
Autumn Jazz Viburnum	<i>Viburnum dentatum 'Autumn Jazz'</i>	56	36" BB
Compact Winged Euonymus	<i>Euonymus alata 'Compacta'</i>	90	36" BB
PERENNIALS			
Black Eyed Susan 'Goldsturm'	<i>Rudbeckia fulgida 'Goldsturm'</i>	114	1 GAL
Purple Coneflower	<i>Echinacea purpurea 'Magnus'</i>	209	1 GAL
Feather Reed Grass	<i>Calamagrostis acutiflora</i>	159	1 GAL
Happy Return Daylily	<i>Hemerocallis 'Happy Return Daylily'</i>	176	1 GAL
Purple Dome Aster	<i>Aster novae-angliae 'Purple Dome'</i>	127	1 GAL
Little Blue Stem	<i>Schizachyrium scoparium</i>	210	1 GAL

LANDSCAPE GENERAL NOTES:

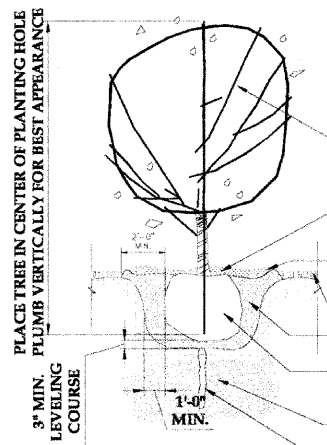
- ALL PLANT MATERIAL IS SUBJECT TO AVAILABILITY AND CORRECT SEASONAL PLANTING PROCEDURE. ANY AND ALL SUBSTITUTIONS REQUEST MUST BE SUBMITTED IN WRITING TO THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING SUBSTITUTION MATERIALS.
- ALL PLANTS SHALL RECEIVE MIN. 3" DEPTH OF SHREDDED HARDWOOD BARK MULCH COVER IN PLANTING BED, INCLUDING PERENNIAL PLANTINGS.
- THE LANDSCAPE CONTRACTOR SHALL STAKE AND LAYOUT ALL INSTALLATIONS AND BEDS FOR APPROVAL BY OWNER'S REPRESENTATIVE. FAILURE TO RECEIVE REVIEW AND APPROVAL MAY BE CAUSE TO REQUIRE THE REMOVAL OF PLANTS AND REINSTALLATION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL SUPPLY LANDSCAPE PLANTING SOIL MIX FOR ALL PERENNIAL PLANTING BEDS TO CONSIST OF 1/3 TOPSOIL, 1/3 SAND AND 1/3 COMPOSTED MANURE OR "MUSHROOM COMPOST". THIS MIXTURE IS TO BE ROTOTILLED INTO THE SOIL A MINIMUM OF 8" THROUGHOUT THE BED, AFTER INSTALLATION MULCH AS SPECIFIED ABOVE. CONTRACTOR MUST ALSO WORK INTO SOIL TERRA-SORB HB AT A RATE PER THE MANUFACTURER'S RECOMMENDATION ALL SHRUB AND NON-IRRIGATED TREE AND PERENNIAL BEDS. SUBMIT MANUFACTURER'S LITERATURE FOR APPROVAL PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL PROVIDE A BASE OF 24" OF PULVERIZED IMPORTED TOPSOIL BEFORE PLANTING ANY MATERIAL. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A "SLIT" IN THE COMPACTED SUBBASE THROUGH ALL PLANTING BEDS WITH A BACKHOE. SEE TREE PLANTING DETAIL.

Boxed Plan Notes Cost Shall be considered included in the associated Landscaping pay item.

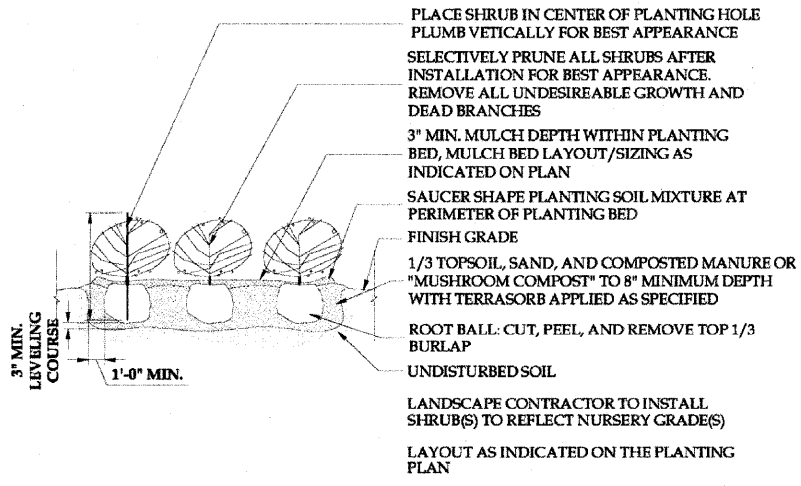
- 1.00 PART 1. DESCRIPTION**
Provide all materials and equipment, and do all work required to complete the planting, as indicated on the Drawings and specified herein.
- 1.01 REFERENCED STANDARDS**
American National Standards Institute, Inc. (ANSI): Z601 American Standard for Nursery Stock (Sponsor: American Association of Nurserymen)
- 1.02 SUBMITTALS**
Samples: The following samples shall be submitted, prior to commencement of work, to the Owner's Representative's office:
Material: Sample Size or Quantity: 1 cu. ft.
Mulch: 1 cu. ft.
Planting soil mix: Package of TerraSorb Water Absorption agent 1 packet
Craying and Staking: Craying and staking will be Contractor's option, but all guys and/or stakes must be signified with fluorescent marking tape and guying and/or staking must be removed by the Contractor after 4 months growing time. When conditions detrimental to plant growth are encountered, replace fill, adverse drainage conditions, or obstructions, notify Owner's Representative before planting. A reasonable change order bid price may be developed to correct the situation.
A complete list of plants, including a schedule of plants, quantities and other requirements are shown on herein. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern. It shall be the responsibility of the Owner's Representative to list those discrepancies and/or omissions on the bid forms as additional work.
- 1.03 SOURCE QUALITY CONTROL**
Selection of Plant Material
All landscape plant material will be reviewed by the Owner's Representative. The Contractor will be responsible for coordinating delivery, installation, and maintenance of the trees until Substantial Completion is granted.
- 1.04 DELIVERY, STORAGE AND HANDLING**
Digging Plant Material
Plants shall not be dug at the nursery or approved source until the Contractor is ready to transport them from their original locations to the site of the work or acceptable storage location.
Transportation of Plant Material
Plants transported to the project in open vehicles shall be covered with tarpaulins or other suitable covers securely fastened to the body of the vehicle to prevent injury to the plants. Closed vehicles shall be adequately ventilated to prevent overheating of the plants.
Plants shall be kept moist, fresh, and protected at all times. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in temporary storage.
- 1.05 REJECTION OF MATERIALS**
Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage, shall be cause for rejection. Should the roots be dried out, large branches be broken, balls of earth broken or loosened, or areas of bark be torn, the Owner's Representative will reject the injured plants.
When a plant has been rejected, remove it from the area of the work and replace it with one of the equal or greater required size and quality. This type of replacement is not considered an additional guarantee.
- 2.00 PART 2. MATERIALS**
2.01 PLANTS
Size and grade of plant materials shall conform to ANSI Z601. In no case shall ball size be less than 11 in. in diameter per inch of caliper.
Plants shall have outstanding forms: symmetrical, heavily branched with an even branch distribution; fully established and/or balled; and a strong straight, distinct leader where this is characteristic of species. Plants shall possess a normal balance between height and spread. The Owner's Representative will make final determination as to the acceptability of plant forms.
Plants shall be healthy and vigorous, free of disease, and insect pests, and shall have a well developed fibrous root system.
Plants shall be free of physical damage such as scrapes, broken or split branches, scars, bark abrasions, unhealed fresh limb cuts, knots, or other defects.
- 2.02 PLANTING SOIL MIX**
Excavated material from plant pits can be used as backfill planting mixture provided it is free of heavy clumps and debris and is amended with 1/4 part topsoil or 1/4 part well aged manure and provided it is approved by the Owner's Representative.
ALL Planting pits MUST be amended with TerraSorb water absorbing agent.
Contractor to supply samples for acceptance prior to commencing with installation.
Planting soil shall have pH value range of 5.5 to 7.0.
If planting soil moisture does not fall within the required pH range, limestone or aluminum sulfate shall be added to bring the pH within the specified limit.
- 2.03 COMMERCIAL FERTILIZER**
Fertilizer content shall conform to the following:

Constituent	% Percent by Weight
Nitrogen (N)	5
Phosphorus (P)	10
Potassium (K)	10
- 2.04 MULCH**
Mulch shall be 6 month old well rotted shredded native hardwood bark mulch not larger than 4" in length and 1/2" in width, free of woodchips and sawdust.
- 3.00 PART 3. CONSTRUCTION REQUIREMENTS**
3.01 LAYOUT OF PLANTING AREAS
The Owner's Representative shall approve locations of plants prior to planting. The Owner's Representative has the right and authority to require all shrubs and perennials be set in place by the Owner's Representative and/or a laborer for approval prior to planting. Failure to receive approval prior to planting will be cause for the Owner's Representative to request the planting locations be revised at no additional expense to the Owner.
3.02 UTILITIES
It is the responsibility of the Contractor to obtain accurate utility location information from the appropriate sources and review it fully prior to construction. Contractor to have I.U.L.L.E. identifying locations as required to coordinate planting.
Prior to the start of the work, the Contractor shall verify to his satisfaction that all utilities both above and below ground, will not interfere or conflict with excavation or other essential activities. Any detected conflict between existing structures, irrigation, paving, utilities, or other facilities and the work of this project shall be called to the Owner's Representative's attention before proceeding with the work.
3.03 PLANT PIT EXCAVATION
When conditions detrimental to plant growth are encountered, such as rubble fill, debris or obstructions, notify the Owner's Representative before planting.
3.04 PLANTING
Walls of plant pits shall be dug so that they are vertical and scarified. If obstructions are encountered that are not shown on the drawings do not proceed with planting operations until alternate plant locations have been selected by Owner's Representative, or arrangements for removal of the obstruction have been approved by Owner's Representative.
Planting shall be positioned in center of planting pit, set plumb, and rigidly bound in position until all planting soil has been tamped around the ball.
Pits shall be backfilled with planting soil mix. Soil shall be worked carefully into voids and pockets, tamping lightly every 6 in.
When pit is two thirds full, plants shall be watered thoroughly, and water left to soak in before proceeding.
At this time, ropes or strings on top of ball shall be cut and shall be pulled back. Burlap or cloth wrapping shall be left intact around ball except that portions of wrap that are exposed at top of ball shall be turned under and buried. Non-biodegradable ball wrapping and support wire shall be totally removed from ball and planting pit.
Backfilling and tamping shall be finished and a sensor formed around plants.
Sensor shall be filled with water left to soak in. Fill sensor with water again.
3.05 PRUNING
Prune branches of deciduous stock, after planting, to balance the loss of roots and preserve the natural character appropriate to the particular plant requirements. In general, remove 1/4 to 1/3 of the leaf bearing buds, proportion shall in all cases be acceptable to the Owner's Representative. Remove or cut back broken, damaged and unsymmetrical growth of new wood.
Multiple leader plants: Preserve the leader which will best promote the symmetry of the plant. Cut branches flush with the trunk or main branch, at a point beyond a lateral shoot a distance not less than 1/2 the diameter of the supporting branch.
Prune evergreens only to remove broken or damaged branches.
3.06 BED SIZING
All bed edges and tree rings shall be spade edged. Spade edge shall be a maximum of 2 1/2" deep and a minimum of 1 1/2" deep.
3.07 MAINTENANCE OF PLANTING
Maintenance shall begin immediately after each plant is planted and shall continue until written approval of Substantial Completion in each work area. Cost for this work shall be included in the unit price of each plant. After approval of Substantial Completion, maintenance shall become the responsibility of the Owner.

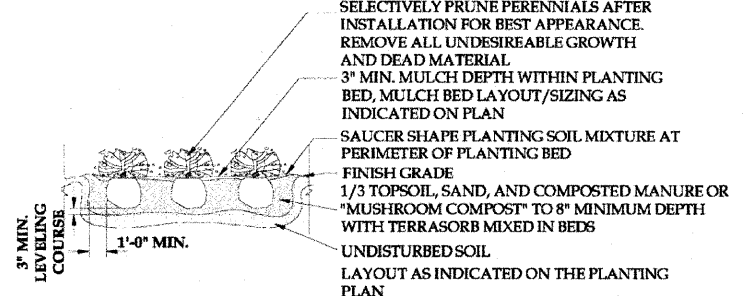
- NOTES:
- LANDSCAPE CONTRACTOR SHALL CONFIRM TREE PIT DOES NOT HOLD WATER.
 - LANDSCAPE CONTRACTOR TO INSTALL TREE AT ELEVATION OF NURSERY GRADE
 - LAYOUT AS INDICATED ON THE PLANTING PLAN
 - SELECTIVELY PRUNE TREE AFTER INSTALLATION FOR BEST APPEARANCE. REMOVE ALL SUCKER GROWTH AND DEAD BRANCHES
 - 3" MIN. MULCH DEPTH AT BASE OF TREE, MULCH RING DIA. AS INDICATED ON PLAN
 - SAUCER SHAPE PLANTING SOIL MIXTURE AT PERIMETER OF MULCH RING
 - FINISH GRADE
 - 1/3 TOPSOIL, SAND, AND COMPOSTED MANURE OR "MUSHROOM COMPOST" THROUGHOUT PLANTING PIT
 - ROOT BALL: WIRE CAGES MAY REMAIN. CUT, PEEL, AND REMOVE TOP 1/3 BURLAP AND ROPES FROM TREE BASE UNDISTURBED SOIL
 - PUT "SLIT" IN SOIL WITH BACK HOE THROUGH ALL PLANTING BEDS AFTER ROAD CONSTRUCTION IS COMPLETE. THIS WILL ALLOW ROOTS TO ESTABLISH THROUGH THE COMPACTED SOIL FROM THE ROAD CONSTRUCTION.



1 Tree Planting Detail
SCALE: NTS



2 Shrub Planting Detail
SCALE: NTS



3 Perennial Planting Detail
SCALE: NTS

△ New Sheet

△ Addendum I April 7, 2009

APRIL 1, 2009
SHEET 4 OF 4

FILE NAME = W:\email\NUS45\Rt45MedianPlanting.dgn	USER NAME = lejso	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING plan	F.A.P. RTE. 344	SECTION (46-1847)WRS-3	COUNTY Lake	TOTAL SHEETS 176	SHEET NO. 93D
PLOT SCALE = 5/8"=20'00" / 1" =	CHECKED -	REVISOR -	REVISOR -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	U.S. Route 45 Reconstruction CONTRACT NO. 60957 ILLINOIS FED. AID PROJECT				
PLOT DATE = 4/6/2009	DATE -	REVISOR -	REVISOR -							