LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND END AREA SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- BOON OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST FEATURE AND FEATURE NUMBER
  - SINKHOLE
  - SINKHOLE CHAIN
  - SINKHOLE CLUSTER
  - SINKHOLE
  - SWITCH FEATURE
  - SINKHOLE STREAM
  - SINKING STREAM
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

- SEE SHEET ECD-2 FOR ADDITIONAL CHECK DAMS, SEE SHEET ECD-3 FOR ROCK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- 8.0 ABUTMENT SEP BAF
- 8.0 ROCK FILTER BERM
- 0.5 TEMPORARY SLOPE DRAINS/ DRAIN
- 0.5 TEMPORARY SEDIMENT TRAP WITH ANTISCIPTOR DITCH
- 0.5 TEMPORARY INLET PROTECTION
- 0.5 NUMBER 2 STONE CUT/FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECD-1(ELLIS) FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDIMENT PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND ON ALL SLOPES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECD-1(ELLIS).

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

ECD-INDEX-STATION 1-01
ROLL PLOT
STA. 878+00 TO STA. 981+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVED:	CHECKED: DG	

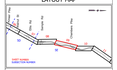
DESIGNATION	HORIZONTAL SCALE	ZONE NO.	SHT NO.	SHT NO.
	1" = 100 FEET	1	ECD-1(ELLIS)	ECD-1(ELLIS)
PROJECT	VERTICAL SCALE	ZONE NO.	ZONE SHT NO.	ZONE SHT NO.
	N/A	1	1	1

ROLL PLOT NO.
84 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

ECD-INDEX-STATION 1-01
ROLL PLOT
STA. 878+00 TO STA. 981+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVED:	CHECKED: DG	

DESIGNATION	HORIZONTAL SCALE	ZONE NO.	SHT NO.	SHT NO.
	1" = 100 FEET	1	ECD-1(ELLIS)	ECD-1(ELLIS)
PROJECT	VERTICAL SCALE	ZONE NO.	ZONE SHT NO.	ZONE SHT NO.
	N/A	1	1	1

ROLL PLOT NO.
84 OF 118

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DND AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS

KARST

- S-1 KARST FEATURE AND FEATURE NUMBER
  - C=CAVE S = SINKHOLE
  - CU=CULVERT SP=SPRING
  - D=DITCH FAILURE SS=SINKING STREAM
  - M=MISCELLANEOUS
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

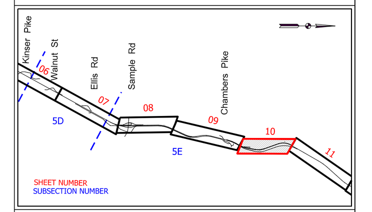
- TEMPORARY ROCK MULCH CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RRR REVETMENT RIP RAP
- RB(1*) ROCK FILTER BERM
- J(1*) TEMPORARY SLOPE DRAIN/J-DRAIN
- ST(1*) TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- IP(1*) TEMPORARY INLET PROTECTION
- CF(1*) NUMBER 2 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLL03 FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SIGN PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES (EXCEPT ROCK CUTS) 3:1 OR STEEPER UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLL03.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5E
ROLL PLOT
STA. 981+00 TO STA. 1061+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER ______ DATE

DESIGNED: PH	DRAWN: JP
APPROVED:	CHECKED: SEL

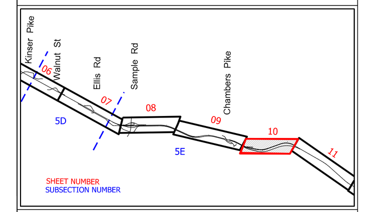
DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	ECE-ROLL10	10 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

ROLL PLOT NO.
85 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and
Environmental Mitigation
Plan

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5E
ROLL PLOT
STA. 981+00 TO STA. 1061+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER ______ DATE

DESIGNED: PH DRAWN: JP
APPROVED: CHECKED: SEL

DESIGNATION: HORIZONTAL SCALE: 1" = 100' DWG NO. ECE-ROLL10 SHT NO. 10 OF 13
PROJECT: VERTICAL SCALE: N/A REV. NO. DWG DATE 1-10-2014

ROLL PLOT NO.
85 OF 118

LEGEND:

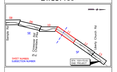
- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND END AREA SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (70')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST
  - 3-1 KARST FEATURE AND FEATURE NUMBER
  - CAVE-CAVE
  - SINK-SINKHOLE
  - CH-CHIMNEY
  - SW-SINKING STREAM
  - SWCH-SINKING STREAM CHIMNEY
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL
  - WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL
  - SEE SPECIFICATIONS AND CHECK DAMS, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- SB1 ABUTMENT SEP BAFF
- SB2 KICK FILTER BERM
- SD1 TEMPORARY SLOPE DRAINS/ DRAIN
- SD2 TEMPORARY SEDIMENT TRAP WITH ANTISCIPATOR DITCH
- SD3 TEMPORARY INLET PROTECTION
- SD4 NUMBER 2 STONE CUT FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECO-ROLLOUT FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDI PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON SLOPES 3:1 OR STEEPER AND ON ALL SLOPES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO-ROLLOUT.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

DESIGNATION: I-69, SR 57
ROLL PLOT
STA. 1061+00 TO STA. 1163+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVAL:	CHECKED: BS	

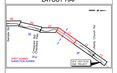
DESIGNATION	HORIZONTAL SCALE	ZONE NO.	SHT. NO.	SHT. NO.
	1" = 100 FEET	EO-9-NULL	11	11
PROJECT	VERTICAL SCALE	ADD. NO.	DATE	DATE
	N/A		2-24-2014	2-24-2014

ROLL PLOT NO.
86 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP



SCALE: 1" = 1000'

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

DESIGNATION: I-69, SR 57
ROLL PLOT
STA. 1061+00 TO STA. 1163+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVAL:	CHECKED: BS	

DESIGNATION	HORIZONTAL SCALE	ZONE NO.	SHT. NO.	SHT. NO.
	1" = 100 FEET	EO-9-NULL	11	11
PROJECT	VERTICAL SCALE	ADD. NO.	DATE	DATE
	N/A		2-24-2014	2-24-2014

ROLL PLOT NO.
86 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and
Environmental Mitigation
Plan

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DND AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS

KARST

- S-1 KARST FEATURE AND FEATURE NUMBER

C=CAVE S = SINKHOLE
CU=CULVERT SP=SPRING
D=DITCH FAILURE SS=SINKING STREAM
M=MISCELLANEOUS

- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

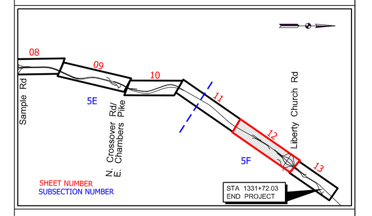
- TEMPORARY ROCK MULCH CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RRR REVETMENT RIP RAP
- RB(1*) ROCK FILTER BERM
- J(1*) TEMPORARY SLOPE DRAIN/J-DRAIN
- ST(1*) TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- IP(1*) TEMPORARY INLET PROTECTION
- CF(1*) NUMBER 2 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLL03 FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SIGN PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES (EXCEPT ROCK CUTS) 3:1 OR STEEPER UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLL03.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5F
ROLL PLOT
STA. 1163+00 TO STA. 1268+00

RECOMMENDED FOR APPROVAL: ____ DESIGN ENGINEER DATE

DESIGNED:	PH	DRAWN:	JP
APPROVED:		CHECKED:	SEL

DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	ECE-ROLL12	12 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

ROLL PLOT NO.
87 OF 118

LAYOUT MAP
SCALE: 1 INCH = 100 FEET (HORIZONTAL)
FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING
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I-69 DEVELOPMENT PARTNERS
EROSION CONTROL AND ENVIRONMENTAL MITIGATION
SUBSECTION 5F
ROLL PLOT
STA. 1163+00 TO STA. 1268+00
ROLL PLOT NO.
87 OF 118

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND END AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (70')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST FEATURE AND FEATURE NUMBER
  - SINKHOLE — SH-XXXXX
  - CAVE/CLIFF — CV-XXXXX
  - SWITCH-THLAND — SW-XXXXX
  - SINKING STREAM — SS-XXXXX
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL
  - WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL
  - SEE SHEET ECO ROLLS FOR CHECK DAM, SEDIMENT TRAP, AND SILT SAFF SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- SB1 — SEDIMENT SEP BAFF
- RC1 — ROCK FILTER BERM
- LC1 — TEMPORARY SLOPE DRAINS/ DRAIN
- TEMPORARY SEDIMENT TRAP WITH ANTISCIPTOR OTTCH
- ST1 — TEMPORARY SEDIMENT TRAP
- IP1 — TEMPORARY INLET PROTECTION
- NUMBER 3 STONE CUT/ FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECO ROLLOS FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDIMENT PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND ON ALL SLOPES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO ROLLOS.

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBMISSION OF
ROLL PLOT
STA. 1268+00 TO STA. 1331+72.03

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVED:	CHECKED: BG	

DESIGNATION:	HORIZONTAL SCALE:	ZONE NO:	SHT NO:
	1:5 IN FEET	5	11 OF 11
PROJECT:	VERTICAL SCALE:	ADD. NO:	DATE:
	N/A		2-22-2019

ROLL PLOT NO.
88 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBMISSION OF
ROLL PLOT
STA. 1268+00 TO STA. 1331+72.03

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE
DESIGNED: PH DRAWN: JP
APPROVED: CHECKED: BG

DESIGNATION: HORIZONTAL SCALE: 1:5 IN FEET ZONE NO: 5 SHT NO: 11 OF 11
PROJECT: VERTICAL SCALE: N/A ADD. NO: DATE: 2-22-2019

ROLL PLOT NO.
88 OF 118

CEMETERIES

LEGEND:

- CONE FOREST
- HISTORICAL RESOURCE
- NON OUTCROP
- PROTECT TREES IN PLACE
- REQUESTED TREE LINE
- SEEDING TYPE 1, URBAN
- SEEDING TYPE 2, RURAL
- SEEDING TYPE 3, WILDFLOWER
- SODDING (DITCH LINING)
- SEEDLING PLANTING AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SINKING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

LANDSCAPE PLANTS

TREES
- Pole Cutting
  - Species TBD
- Tree at Existing Treeline
  - Species TBD
- Acer rubrum
  - Red Maple
- Carya ovata
  - Shagbark Hickory
- Cercis canadensis
  - Redbud
- Cornus florida
  - Flowering Dogwood
- Quercus alba
  - White Oak
- Quercus rubra
  - Red Oak

EVERGREEN TREES
- Juniperus virginiana
  - Eastern Red Cedar
- Pinus strobus
  - Eastern White Pine

SHRUBS
- Cornus racemosa
  - Gray Dogwood
- Ilex verticillata
  - Winterberry Holly
- Rhus aromatica
  - Fragrant Sumac
- Viburnum dentatum
  - Arrowwood Viburnum

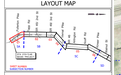
PERENNIALS
- Aster laevis
  - Smooth Blue Aster
- Cassia hebecarpa
  - Wild Senna
- Echinacea purpurea
  - Purple Coneflower

GRASSES
- Bouteloua curtipendula
  - Sideoats Grama
- Sorghastrum nutans
  - Indian Grass

NOTES:

1. DO NOT MOW OR SPRAY GRASS AREA TO BE PLACED BEYOND CONSTRUCTION LIMITS. SEE DETAIL SHEET 12-ROLL-01 FOR PLACEMENT LOCATIONS.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE

TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5A
ROLL PLOT
STA. 215+13.48 TO STA. 277+00

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER	DATE
DESIGNED: SSL	DRAWN: JP
APPROVED:	CHECKED: RH

DESIGNATION	HORIZONTAL SCALE	ZONE REF.	DATE REF.
	1" = 100'	LU-ROLLS	1 OF 15
PROJECT	VERTICAL SCALE	ROU. REF.	ZONE DATE
	N/A		11/14/2014

ROLL PLOT NO.
89 OF 118

APPROACH AND SOLUTIONS

Morgan and Monroe counties, which I-69 passes through, are rich in landscape textures and historic districts and structures. These various textures and districts include wetlands, rock outcroppings, agricultural fields, hardwood forests, the urban landscape, and historic bridge structures and rolling landscapes.

Although the I-69 corridor between Martinsville and Bloomington follows the existing alignment of SR37, the upgrade to an interstate system requires modifications to the roadway. These modifications involve the construction of new bridges and sound walls, widening of the roadway, construction of new collector roads, and drainage improvements to name a few. These improvements impact the adjacent woodlots, existing vegetation, rock outcroppings, topography, and views.

The landscape development concept for this 21-mile stretch of roadway is to blend the new roadway construction into the adjacent landscape. This will be accomplished through the installation of various urban, rural, and wildflower seed mixes; installation of caliper trees and seedlings in selected areas, use of color and textures on roadway structures, and the incorporation of grading concepts.

Our context sensitive approach addresses the project's impacts at three aerial scales: corridor level, segment level and site level. At the corridor level scale contour grading, slope treatments, planting schemes and landscape surface treatments reflect the landscape character of the overall regional landscape. The corridor scale addresses the connectivity of the landscape scale elements that are primarily interpreted by the traveling public through a sequence of images.

The Segment 5 corridor is visually separated into urban, rural, forested and agricultural segments with landscape elements designed to enhance the qualities of those areas. For instance, the planting schemes in urban areas are more formal than those in rural or forested lands, Indiana Limestone outcroppings are carefully excavated to expose Karst features as they would appear in nature, and retaining walls and sound walls are designed to be reminiscent of limestone features.

Finally, context sensitive site level solutions are experienced as design details involving line, form, texture and color selections of landscape architectural treatments that create a sense of place. Examples of a site level context sensitive solutions include the detailed design of the unique architectural treatment of abutments at bridges, enhanced light fixtures along sidewalks, and railings and parapets at bridges. Pedestrian and bicycle accommodations further enhance the settings and help introduce a pedestrian scale to the project.

Limits of Geographic Establishment Areas

Zone	Limits	Location
	Year One	
1	Rockport Road to SR46/I-69 Traffic Interchange	West Side
2	Rockport Road to SR46/I-69 Traffic Interchange	East Side
	Year Two	
3	SR46/I-69 Traffic Interchange to Chambers Pike	Median
4	SR46/I-69 Traffic Interchange to Chambers Pike	West Side
5	SR46/I-69 Traffic Interchange to Chambers Pike	East Side
	Year Three	
6	Chambers Pike to Indian Creek	Median
7	Chambers Pike to Indian Creek	West Side
8	Chambers Pike to Indian Creek	East Side

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Aesthetic and Landscape Concept Master Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE

TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5A
ROLL PLOT
STA. 215+13.48 TO STA. 277+00

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER	DATE
DESIGNED: SSL	DRAWN: JP
APPROVED:	CHECKED: RH

DESIGNATION	HORIZONTAL SCALE	ZONE REF.	DATE REF.
	1" = 100'	LU-ROLLS	1 OF 15
PROJECT	VERTICAL SCALE	ROU. REF.	ZONE DATE
	N/A		11/14/2014

ROLL PLOT NO.
89 OF 118

LEGEND:

- CORE FOREST
- HISTORICAL RESOURCE
- NOXX OUTCROP
- PROTECT TREES IN PLACE
- ADJUSTED TREE LINE
- SODDING TYPE 1, URBAN
- SODDING TYPE 2, RURAL
- SODDING TYPE 3, WILDFLOWER
- SODDING DITCH LINING
- SODDING PLANTING AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SINKING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

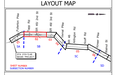
LANDSCAPE PLANTS

TREES
- Pole Cutting (Species TBD)
- Tree at Existing Treeline (Species TBD)
- Acer rubrum Red Maple
- Carya ovata Shagbark Hickory
- Cercis canadensis Redbud
- Cornus florida Flowering Dogwood
- Quercus alba White Oak
- Quercus rubra Red Oak
- EVERGREEN
- Juniperus virginiana Eastern Red Cedar
- Pinus strobus White Pine

SHRUBS
- Cornus racemosa Gray Dogwood
- Ilex verticillata Winterberry Holly
- Rhus aromatica Fragrant Sumac
- Viburnum dentatum Arrowwood Viburnum
- PERENNIALS
- Aster laevis Smooth Blue Aster
- Caltha palustris Marsh Marigold
- Coreopsis lanceolata Lance Coreopsis
- Echinacea purpurea Purple Coneflower
- GRASSES
- Bouteloua curtipendula Sideoats Grama
- Sorghastrum nutans Indian Grass

NOTES:
1. DO NOT PAINT ON SPRAY GRASS ARE TO BE PLACED WITHIN CONSTRUCTION LIMITS. SEE DETAIL SHEET 12-ROLL-01 FOR PLACEMENT LOCATIONS.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5B
ROLL PLOT
STA. 277+00 TO STA. 382+00

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE
DESIGNED: SSL DRAWN: JP
APPROVED: CHECKED: RK

DESIGNATION	HORIZONTAL SCALE	DWG NO	SHT NO
	1" = 50'	LA-ROLL-01	2 OF 12
PROJECT	VERTICAL SCALE	REV. NO	DWG DATE
N/A	N/A		11/12/2018

ROLL PLOT NO.
90 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Aesthetic and Landscape Concept Master Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5B
ROLL PLOT
STA. 277+00 TO STA. 382+00

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE
DESIGNED: SSL DRAWN: JP
APPROVED: CHECKED: RK

DESIGNATION	HORIZONTAL SCALE	DWG NO	SHT NO
	1" = 50'	LA-ROLL-01	2 OF 12
PROJECT	VERTICAL SCALE	REV. NO	DWG DATE
N/A	N/A		11/12/2018

ROLL PLOT NO.
90 OF 118

LEGEND:

- CORE FOREST
- HISTORICAL RESOURCE
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ADJUSTED TREE LINE
- SEEDING TYPE 1, URBAN
- SEEDING TYPE 2, RURAL
- SEEDING TYPE 3, WILDFLOWER
- SODDING (DITCH LINING)
- SEEDLING PLANTINGS AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SINKING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

LANDSCAPE PLANTS

TREES
- Pole Cutting — Species TBD
- Tree at Existing Treeline — Species TBD
- Acer rubrum — Red Maple
- Carya ovata — Shagbark Hickory
- Cercis canadensis — Redbud
- Cornus florida — Flowering Dogwood
- Quercus palustris — Pin Oak
- Quercus rubra — Red Oak

EVERGREENS
- Juniperus virginiana — Eastern Red Cedar
- Pinus strobus — White Pine

SHRUBS
- Cornus racemosa — Gray Dogwood
- Ilex verticillata — Winterberry Holly
- Rhus aromatica — Fragrant Sumac
- Viburnum dentatum — Arrowwood Viburnum

PERENNIALS
- Aster laevis — Smooth Blue Aster
- Cassia hebecarpa — Wild Senna
- Echinacea purpurea — Purple Coneflower

GRASSES
- Bouteloua curtipendula — Sideoats Gramma
- Sorghestrum nutans — Indian Grass

NOTES
1. DO NOT MOW OR SPRAY SIGNS ARE TO BE PLACED WITHIN CONSTRUCTION LIMITS. SEE DETAIL SHEET LS-ROLL-03 FOR PLACEMENT LOCATIONS.

LAYOUT MAP

STA 215+13.48 BEGIN PROJECT
SHEET NUMBER
SUBSECTION NUMBER

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

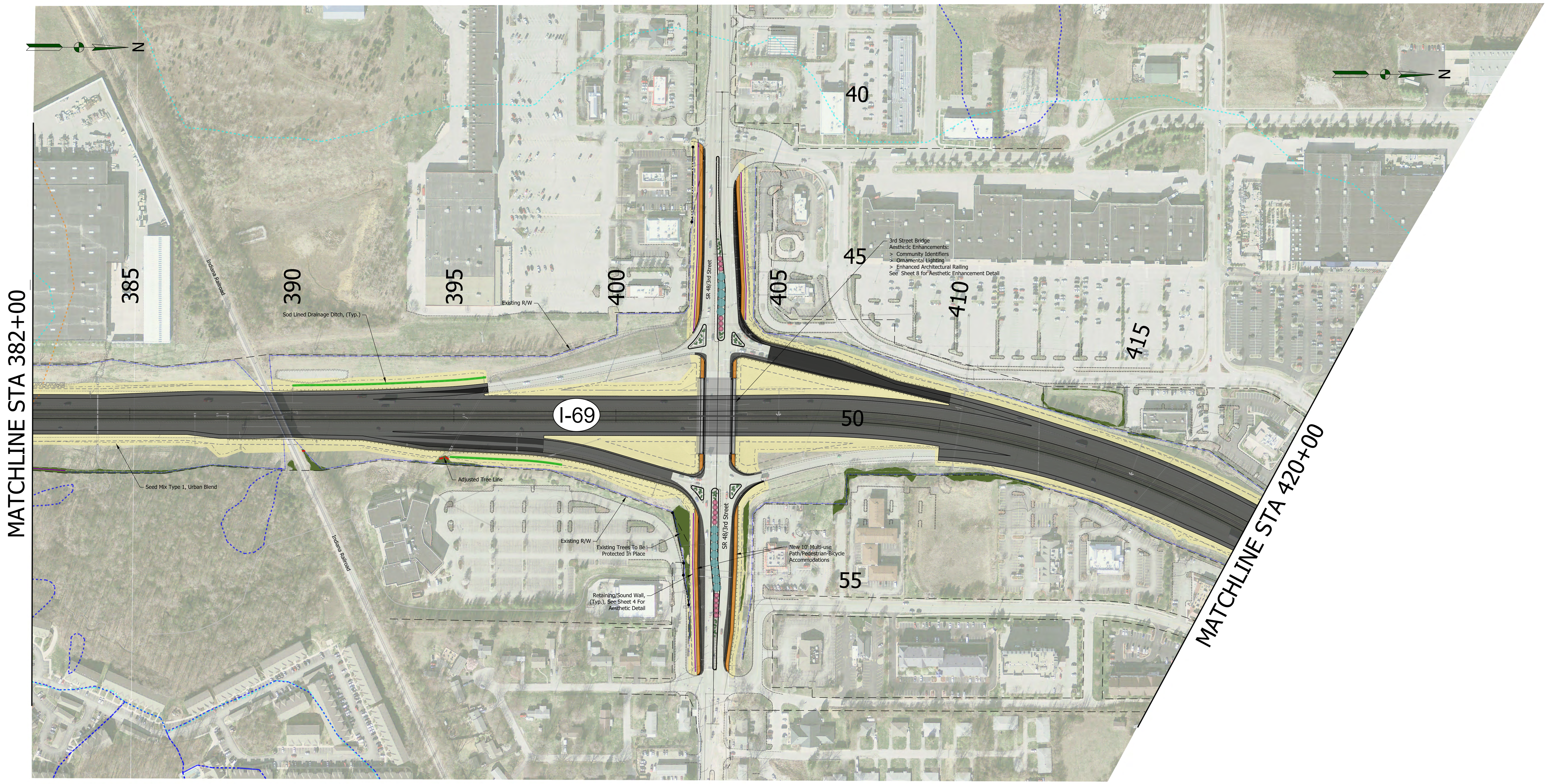
SUBSECTION 5B
ROLL PLOT
STA. 382+00 TO STA. 420+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER ______ DATE

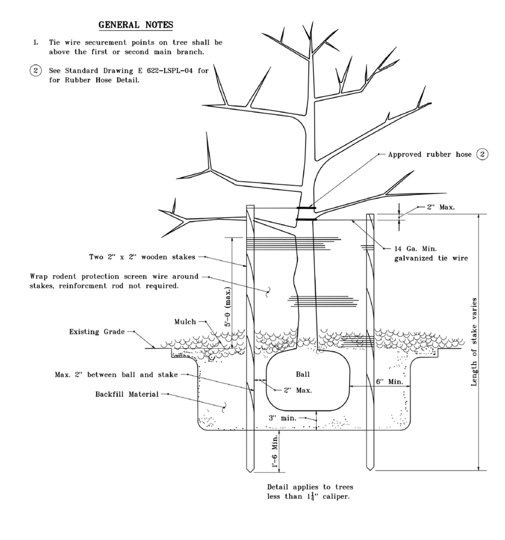
DESIGNED: SEL	DRAWN: JP
APPROVED:	CHECKED: PH

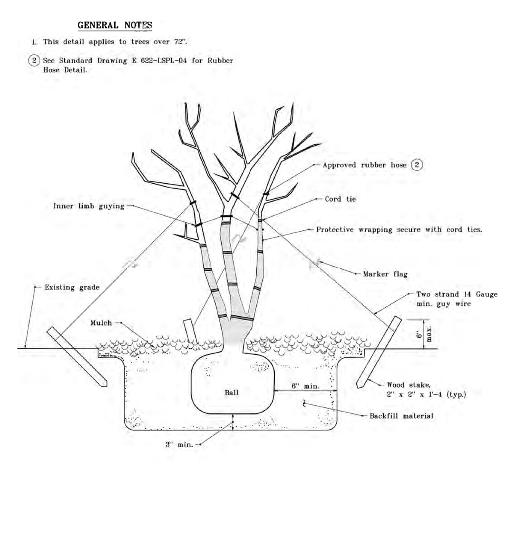
DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	LS-ROLL03	3 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

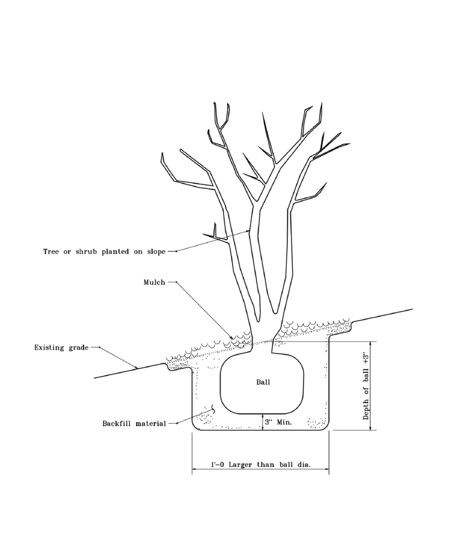
ROLL PLOT NO.
91 OF 118

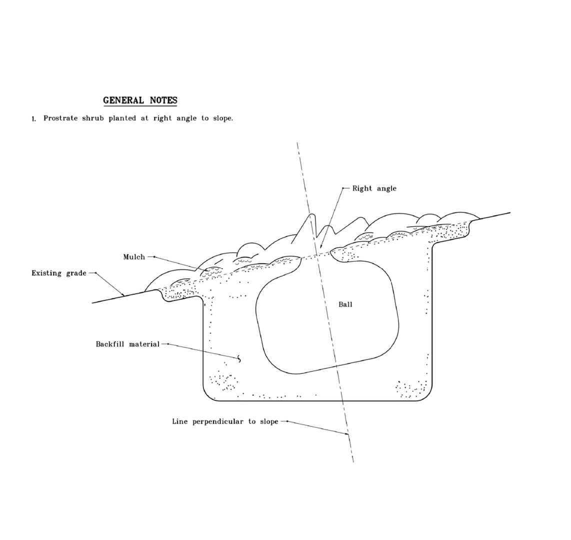


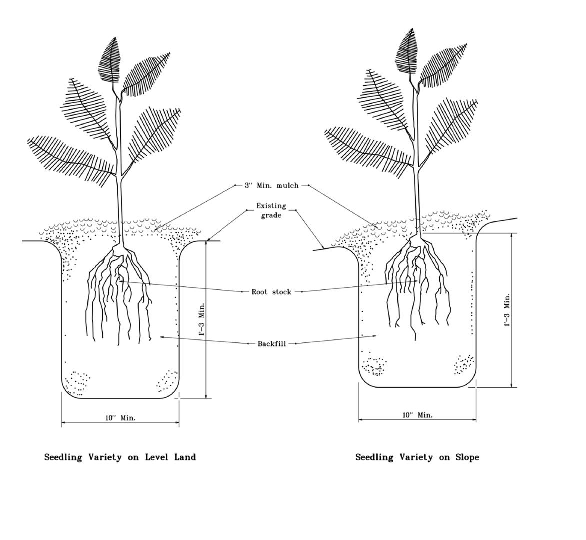
LANDSCAPE DETAILS

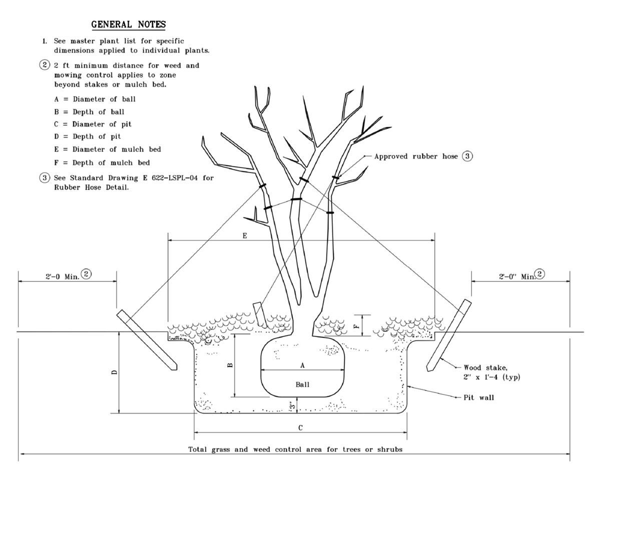

622-LSPL-01 PLANTING BALLED AND BURLAPPED TREE

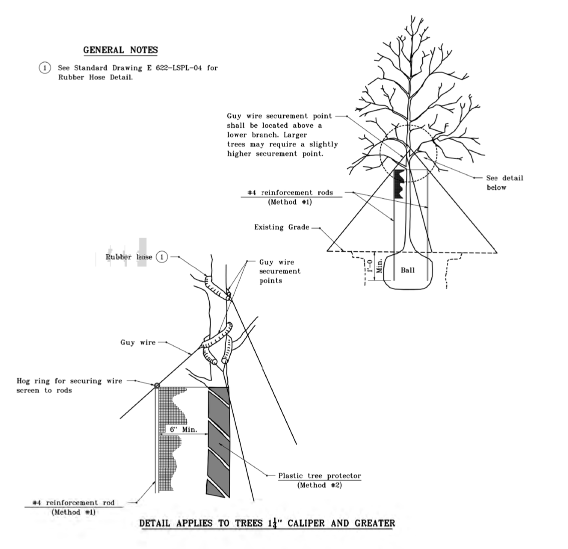

622-LSPL-03 PLANTING MULTI-STEM TREE

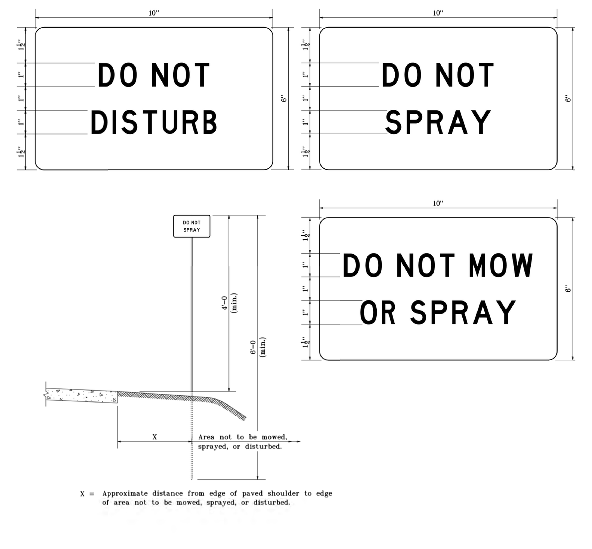

622-LSPL-06 PLANTING ON SLOPE


622-LSPL-07 PLANTING ON SLOPE

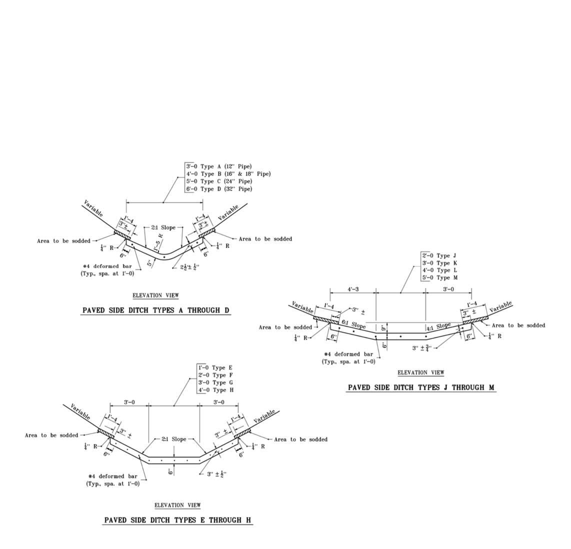

622-LSPL-09 PLANTING SEEDLING VARIETIES

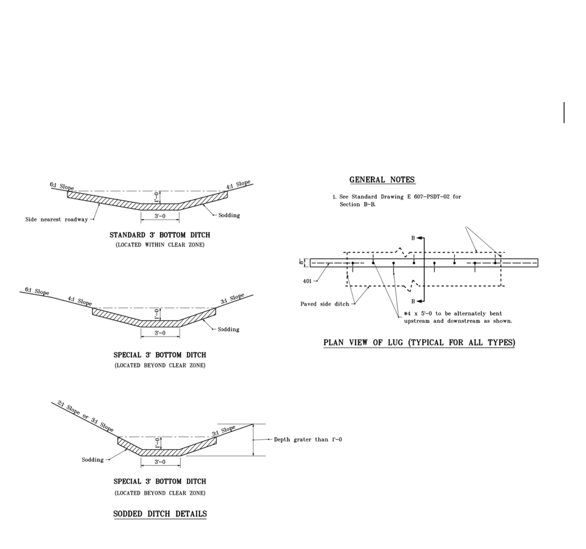

622-LSPL-11 COMMONLY USED DIMENSIONS

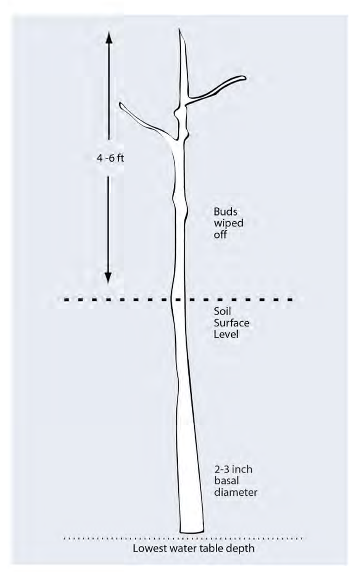

622-LSPR-05 TREE PROTECTION

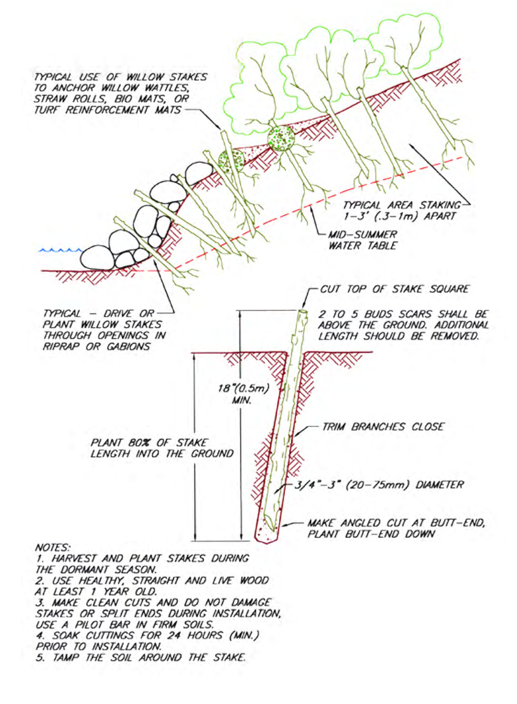


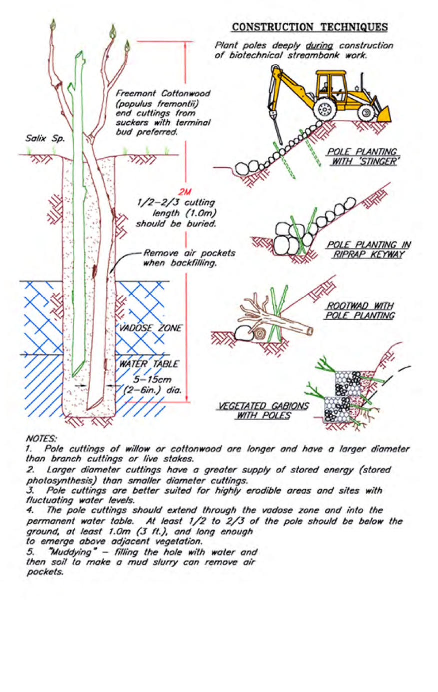
622-LSSN-01 LANDSCAPE SIGNS

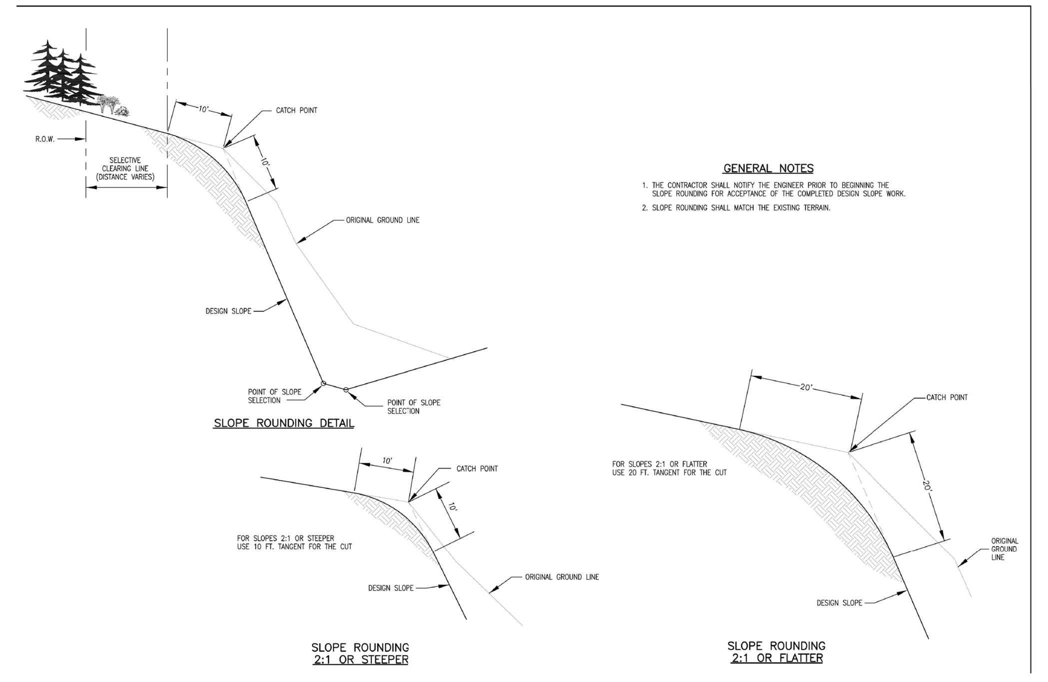

607-PSDT-01 SOD AT PAVED DITCH


607-PSDT-06 SODDED DITCH


DETAIL 1 POLE PLANTING


DETAIL 2 POLE PLANTING


DETAIL 3 POLE PLANTING


DETAIL 4 SLOPE ROUNDING

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Aesthetic and Landscape Concept
Master Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5B
ROLL PLOT
STA. 382+00 TO STA. 420+00

ROLL PLOT NO.
91 OF 118

LEGEND:

- CORE FOREST
- HISTORICAL RESOURCE
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ADJUSTED TREE LINE
- SEEDING TYPE 1, URBAN
- SEEDING TYPE 2, RURAL
- SEEDING TYPE 3, WILDFLOWER
- SODDING (DITCH LINING)
- SEEDLING PLANTINGS AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SINKING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

LANDSCAPE PLANTS

TREES

- Pole Cutting — Species TBD
- Tree at Existing Treeline — Species TBD
- Acer rubrum — Red Maple
- Carya ovata — Shagbark Hickory
- Cercis canadensis — Redbud
- Cornus florida — Flowering Dogwood
- Quercus palustris — Pin Oak
- Quercus rubra — Red Oak

EVERGREENS

- Juniperus virginiana — Eastern Red Cedar
- Pinus strobus — White Pine

SHRUBS

- Cornus racemosa — Gray Dogwood
- Ilex verticillata — Winterberry Holly
- Rhus aromatica — Fragrant Sumac
- Viburnum dentatum — Arrowwood Viburnum

PERENNIALS

- Aster laevis — Smooth Blue Aster
- Cassia hebecarpa — Wild Senna
- Echinacea purpurea — Purple Coneflower

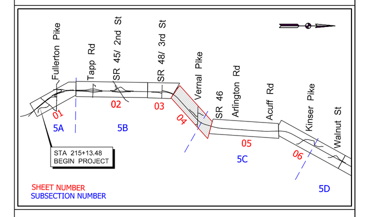
GRASSES

- Bouteloua curtipendula — Sideoats Gramma
- Sorghestrum nutans — Indian Grass

NOTES

1. DO NOT MOW OR SPRAY SIGNS ARE TO BE PLACED WITHIN CONSTRUCTION LIMITS. SEE DETAIL SHEET LS-ROLL-03 FOR PLACEMENT LOCATIONS.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE

TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5B AND 5C
ROLL PLOT
STA. 420+00 TO STA. 494+00

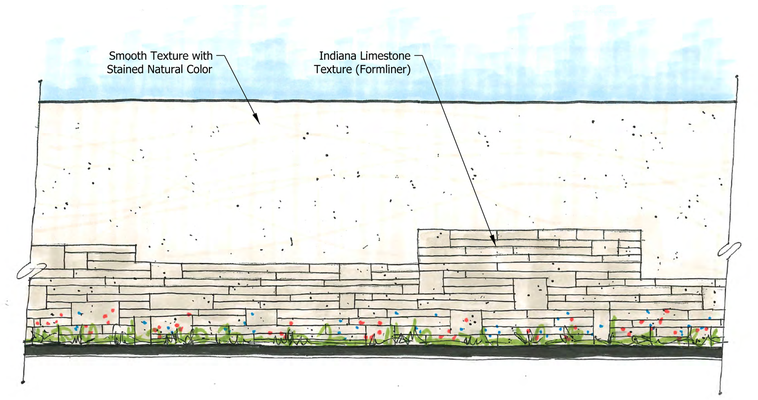
RECOMMENDED FOR APPROVAL: ____________ DESIGN ENGINEER ____ DATE

DESIGNED: SEL	DRAWN: JP
APPROVED:	CHECKED: PH

DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	LS-ROLL04	4 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

ROLL PLOT NO. 92 OF 118

LANDSCAPE AESTHETIC DETAILS



ABUTMENT/RETAINING/SOUND WALL ENHANCEMENT - CAST IN PLACE CONCRETE

Noise Barrier Walls – Three noise barrier walls have been identified within the project limits. These walls range in heights from 12 feet to 18 feet and would be constructed of pre-cast concrete panels set between wide flange beam posts and pre-cast 30" wide pilasters. These noise barrier walls provide the opportunity for the introduction of texture and color. The pre-cast panels would have a natural limestone texture with a random pattern viewable from I-69. A color similar to that of the natural limestone will be applied as paint or stain.

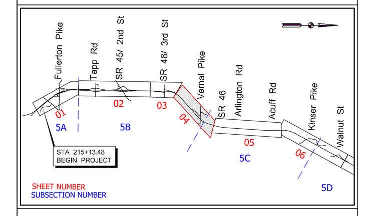
The neighborhood side of the noise barrier walls will have a different texture. Three alternatives have been proposed, Running Bond Brick Pattern, Horizontal Groove Pattern, and the Random Ashlar Pattern. These patterns along with other patterns and color alternatives will be presented to the public to determine the final neighborhood wall pattern and color.

Retaining Walls – Retaining walls will generally be less visible to the traveling public since they are constructed in cut sections and placed lower within a traveler's viewshed, while the noise barrier walls loom as high as 20 feet above the landscape and often follow the roadway for long distances. The lower retaining walls will appear as limestone outcrops with form liners texturing the wall's face.

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Aesthetic and Landscape Concept
Master Plan

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE

TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTION 5B AND 5C
ROLL PLOT
STA. 420+00 TO STA. 494+00

ROLL PLOT NO. 92 OF 118

LEGEND:

- CORE FOREST
- HISTORICAL RESOURCE
- NOVA OUTDOOR
- PROTECT TREES IN PLACE
- ADJUSTED TREE LINE
- SEEDING TYPE 1, URBAN
- SEEDING TYPE 2, RURAL
- SEEDING TYPE 3, WILDFLOWER
- SODDING (DITCH LINING)
- SEEDING PLANTING AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SINKING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

LANDSCAPE PLANTS

TREES
- Pole Cutting
  - Species TBD
- Tree at Existing Treeline
  - Species TBD
- Acer rubrum
  - Red Maple
- Carya ovata
  - Shagbark Hickory
- Cercis canadensis
  - Redbud
- Cornus florida
  - Flowering Dogwood
- Quercus alba
  - White Oak
- Quercus rubra
  - Red Oak
- OVERSTORY
- Sorbaria sorbifolia
  - Eastern Red Cedar
- Pinus strobus
  - White Pine

- SHRUBS
  - Cornus racemosa
    - Gray Dogwood
  - Euonymus alatus
    - Winterberry Holly
  - Rhus aromatica
    - Fragrant Sumac
  - Viburnum dentatum
    - Arrowwood Viburnum
- PERENNIALS
  - Aster laevis
    - Smooth Blue Aster
  - Coreopsis lanceolata
    - Lance Coreopsis
  - Echinacea purpurea
    - Purple Coneflower
- GRASSES
  - Bouteloua curtipendula
    - Sideoats Grama
  - Sorghastrum nutans
    - Indian Grass

NOTES:
1. DO NOT MOW OR SPRAY SEEDS ARE TO BE PLACED WITHIN CONSTRUCTION LIMITS. (SEE DETAIL SHEET 12-ROLL) FOR PLACEMENT LOCATIONS.

LAYOUT MAP

SHEET 1
SHEET 2
SHEET 3
SHEET 4
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SHEET 115
SHEET 116
SHEET 117
SHEET 118
LEGEND
LEGEND
LEGEND

LEGEND:

- CORE FOREST
- HISTORICAL RESOURCE
- NOISE OUTDOOR
- PROTECT TREES IN-PLACE
- ADJUSTED TREE LINE
- SODDING TYPE 1, URBAN
- SODDING TYPE 2, RURAL
- SODDING TYPE 3, MEUSLINGWR
- SODDING DITCH LINING)
- SODDING PLANTINGS AND SEEDING ON SLOPE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- KARST FEATURE
- SINKHOLE AREA
- BURIED SINKHOLE AREA
- SENSING STREAM AREA
- ABUTMENT, RETAINING, AND SOUND WALLS

LANDSCAPE PLANTS

TREES
- Pole Cutting
  - Species TBD
- Tree at Existing Treeline
  - Species TBD
- Acer rubrum
  - Red Maple
- Carya ovata
  - Shagbark Hickory
- Cercis canadensis
  - Redbud
- Cornus florida
  - Flowering Dogwood
- Quercus bicolor
  - Swamp White Oak
- Quercus rubra
  - Red Oak

EVERGREEN TREES
- Juniperus virginiana
  - Eastern Red Cedar
- Pinus strobus
  - Eastern White Pine

- SHRUBS
  - Cornus racemosa
    - Gray Dogwood
  - Ilex verticillata
    - Winterberry Holly
  - Rhus aromatica
    - Fragrant Sumac
  - Viburnum dentatum
    - Arrowwood Viburnum
- PERENNIALS
  - Aster laevis
    - Smooth Blue Aster
  - Coreopsis tripteris
    - Coreopsis
  - Echinacea purpurea
    - Purple Coneflower
- GRASSES
  - Bouteloua curtipendula
    - Sideoats Grama
  - Sorghastrum nutans
    - Indian Grass

NOTES:

1. DO NOT MOW OR SPRAY GRASS ARE TO BE PLACED WITHIN CONSTRUCTION LIMITS. (SEE DETAIL SHEET 12-ROLL-03 FOR PLACEMENT LOCATIONS).

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE

TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

LANDSCAPE PLAN

SUBSECTIONS 5C & 5D
ROLL PLOT
STA. 594+00 TO STA. 698+00

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER	DATE
DESIGNED: SSL	DRAWN: JP
APPROVED:	CHECKED: RH

DESIGNATION	HORIZONTAL SCALE	DWG NO	SHT NO
	1" = 100'	12-ROLL-01	9 OF 17
PROJECT:	VERTICAL SCALE	REV. NO	DWG DATE
N/A	N/A	0	11/14/2014

ROLL PLOT NO.
94 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Aesthetic and Landscape Concept Master Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
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ROLL PLOT NO.
94 OF 118