09/08/99

PROJECT: 3709.3.28

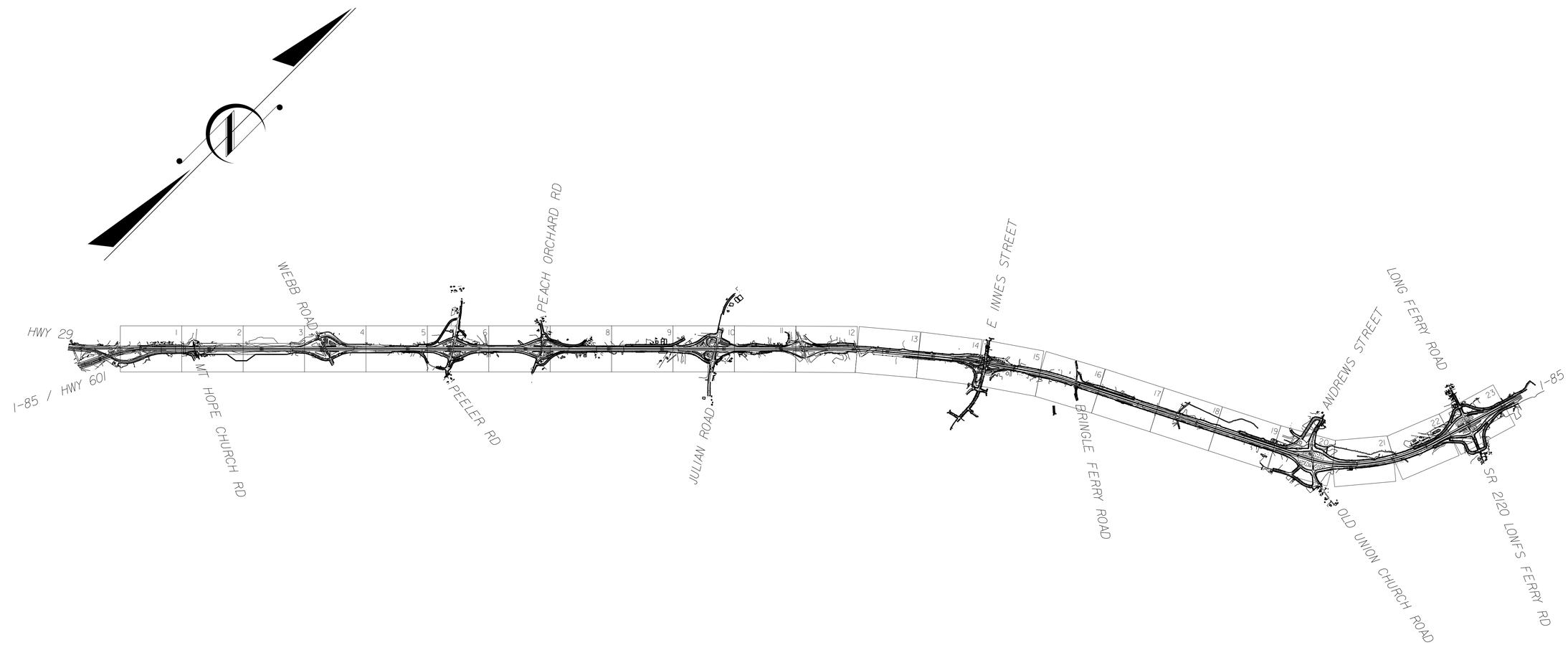
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
3709.3.28		

LOCATION: I–85 FROM THE HWY 29 INTERCHANGE TO LONG FERRY ROAD

TYPE OF WORK: PLANTING, COMPOST SEEDING, MULCH, AND EARTHWORK



GRAPHIC SCALES

50 25 0 50 100
FULL–SIZE PLANS

100 50 0 100 200
HALF–SIZE PLANS

PROJECT LENGTH

TOTAL LENGTH PROJECT = 12.09 MILE

Prepared in the Office of:

DIVISION OF HIGHWAYS

375 SILAS CREEK PKWY., WINSTON SALEM, NC 27105

2012 STANDARD SPECIFICATIONS

DESIGN DATE
August 17, 2013

LETTING DATE:
December 11, 2013

S.P. IVEY, P.E.
DIVISION ENGINEER

TODD HIATT, P.E.
ROADSIDE ENVIRONMENTAL ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

18-OCT-2013 08:20
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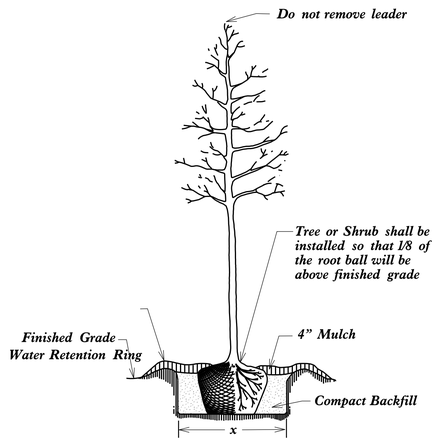
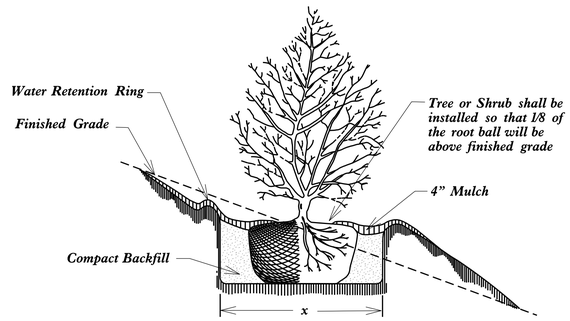
wablanton AT D9CAD268308

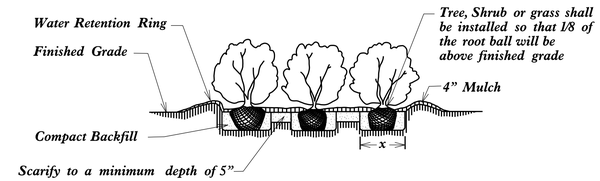
PROJECT REFERENCE NO.	SHEET NO.
	2
DETAIL SHEET	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. Ivey, PE	Todd Hiatt, PE



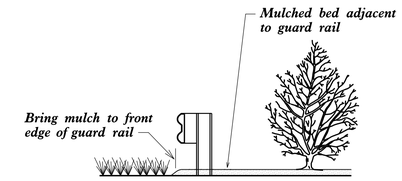
Tree or Shrub Planting Detail (Level Ground)



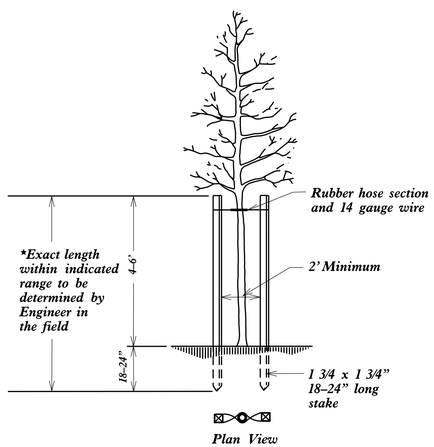
Tree or Shrub Planting Detail (Sloping Ground)



Bed Planting Detail

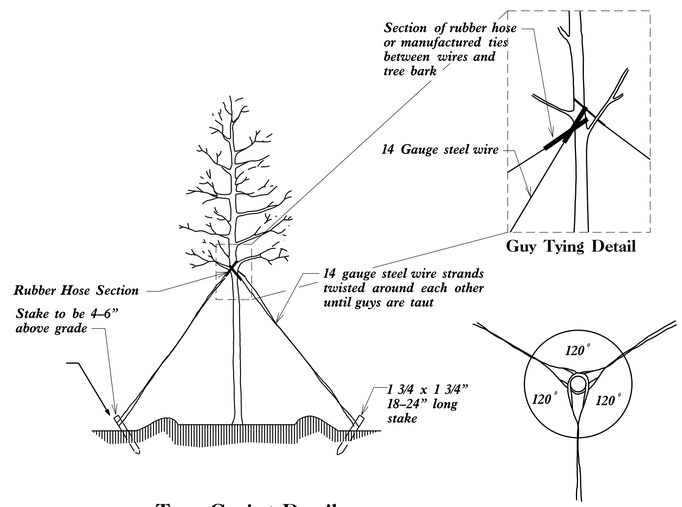


Plant Bed /Guard Rail Detail



Staking Detail (for trees 6' to 10')

* Utilize staking detail only if requested by the Engineer.



Tree Guying Detail (for trees 10' or larger)

* Utilize guying detail only if requested by the Engineer.

Notes:

- *Schedule for Plant Hole Size: X = 2 times the diameter of the container or the root ball diameter*
- *Fertilizer shall be applied at time of planting. Fertilizer shall be a slow release pellet or tablet. Formulation shall be approved by the engineer in the field. Rates shall be per manufacturer's recommendations and approved by the engineer in the field. Thouroughly mix with topsoil, backfill or scarified soil.*
- *Before backfilling, cut and remove wire basket and remove burlap around top of root ball to expose root collar. Depending on type of soil at installation site, set root ball at grade or slightly above as directed by the Engineer. Do not place mulch against root collar. Do not place mulch within 12" of tree trunk or 6" of shrub trunk.*
- *Staking and guying shall be at the direction of the enginner in the field.*
- *When mulched bed is adjacent to guard rail run mulch to front edge of guard rail – see detail*

Key:

- A — Area to be compost seeded according to Contract Special Provisions
- B — Perimeter of Plant Bed to be mulched a width of 6 ft.
- Dogwood Tree – Size is determined on plan sheet
- Redbud Tree – Size is determined on plan sheet.
- Mulch Existing Tree Ring

REVISIONS

8/06/13

18-OCT-2013 08:43
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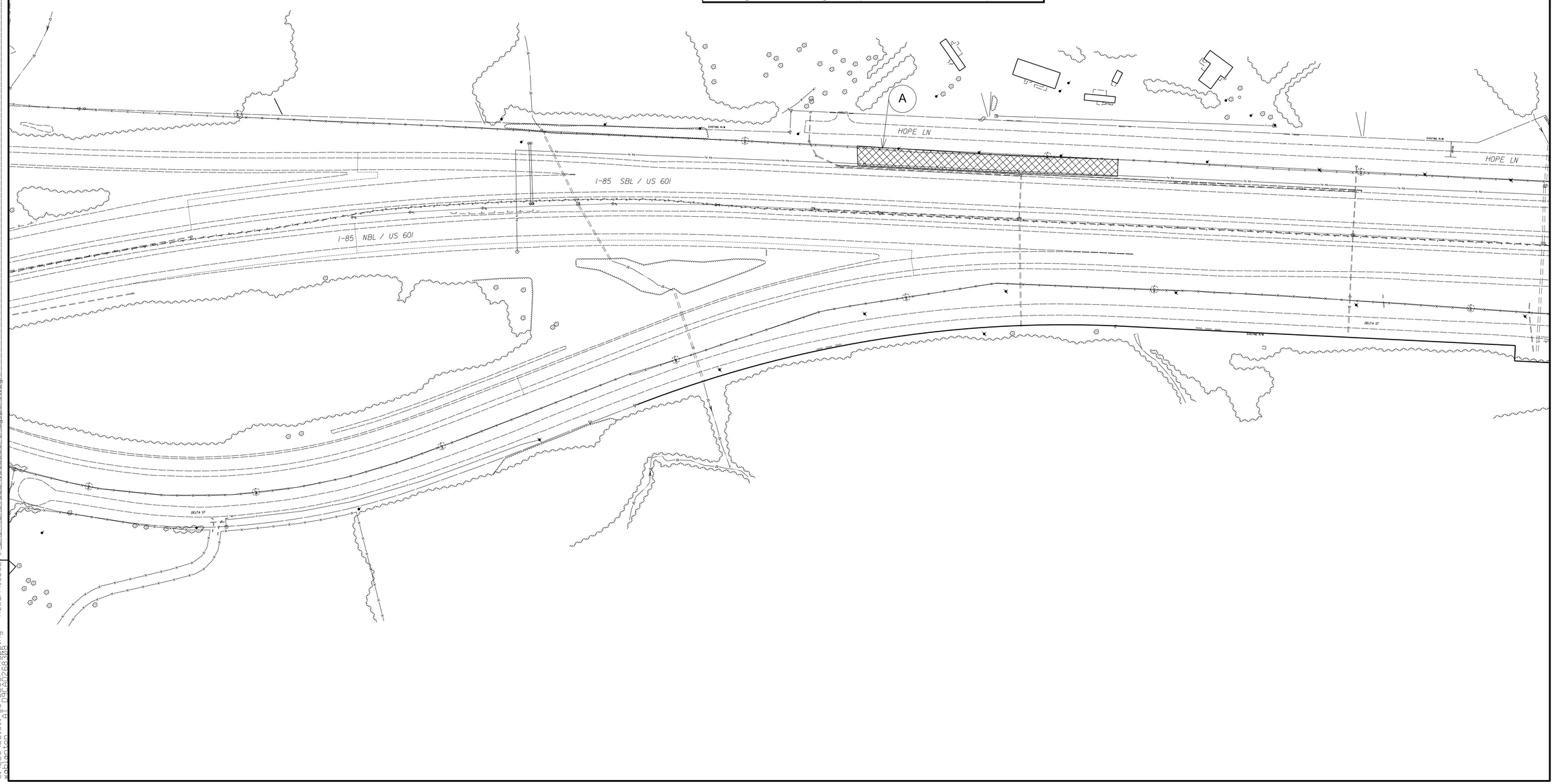
application 1.0 bsd026300

PROJECT REFERENCE NO.	SHEET NO.
	3
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	1930
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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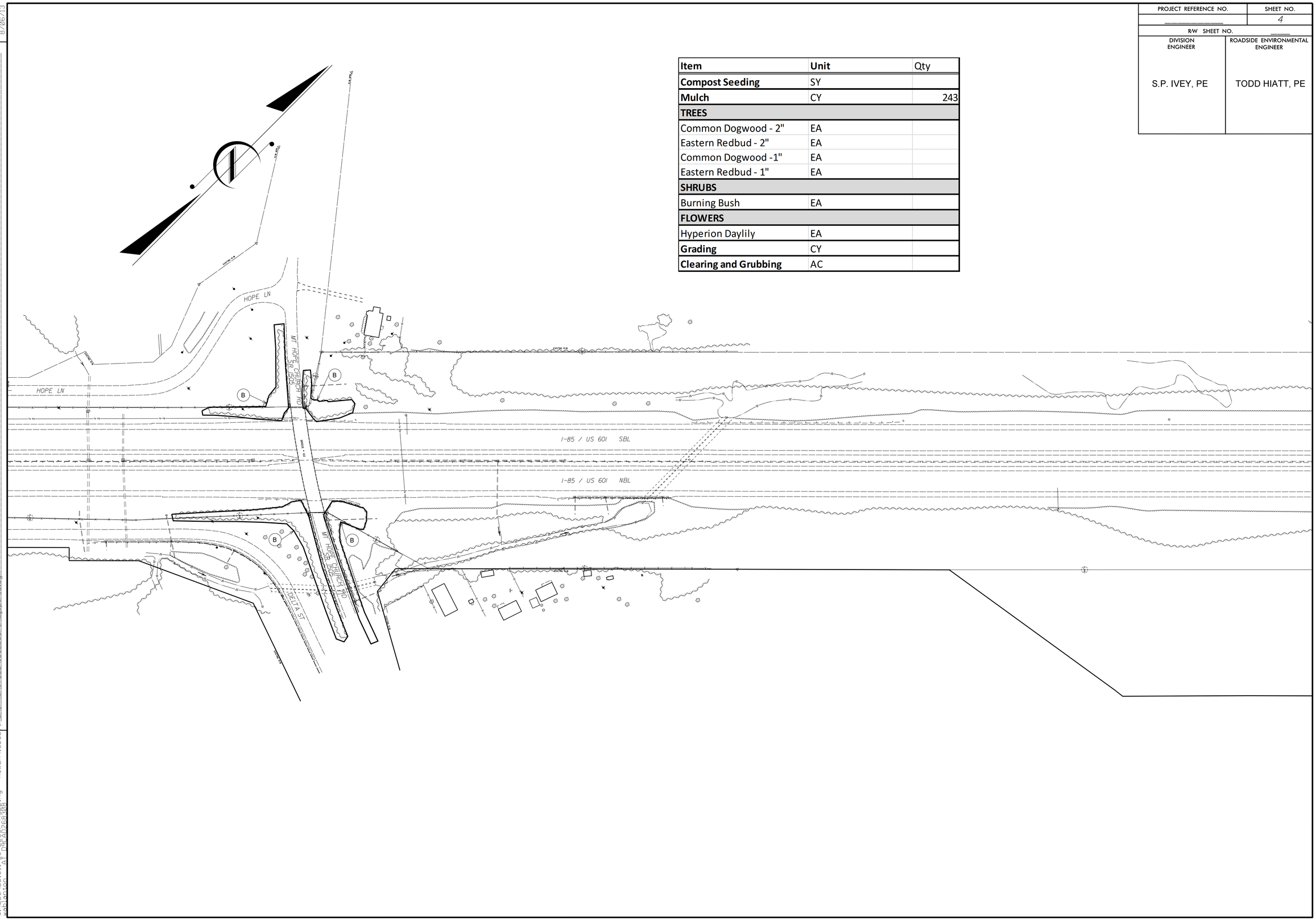
wablanton AT_D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	4
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	243
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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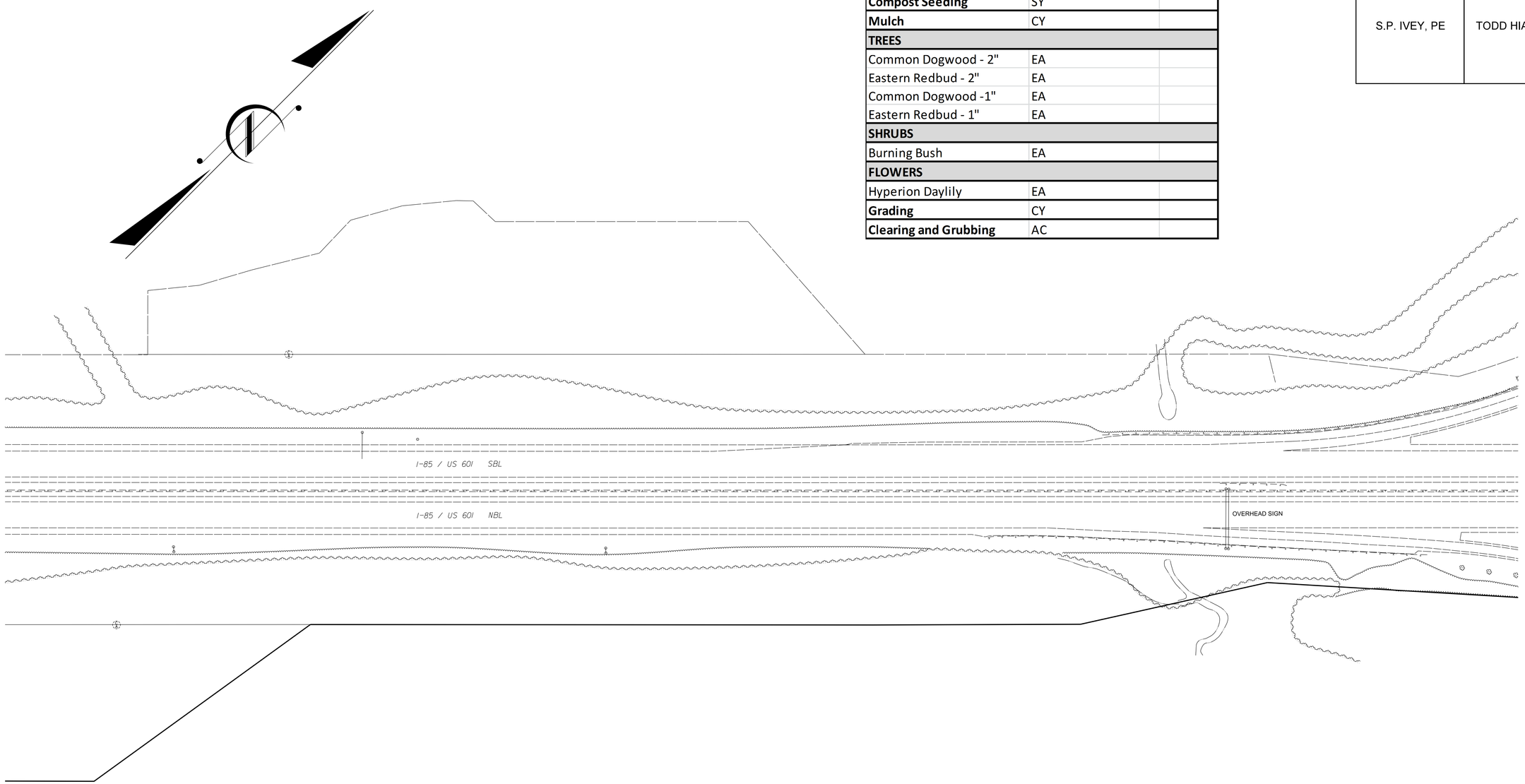
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	5
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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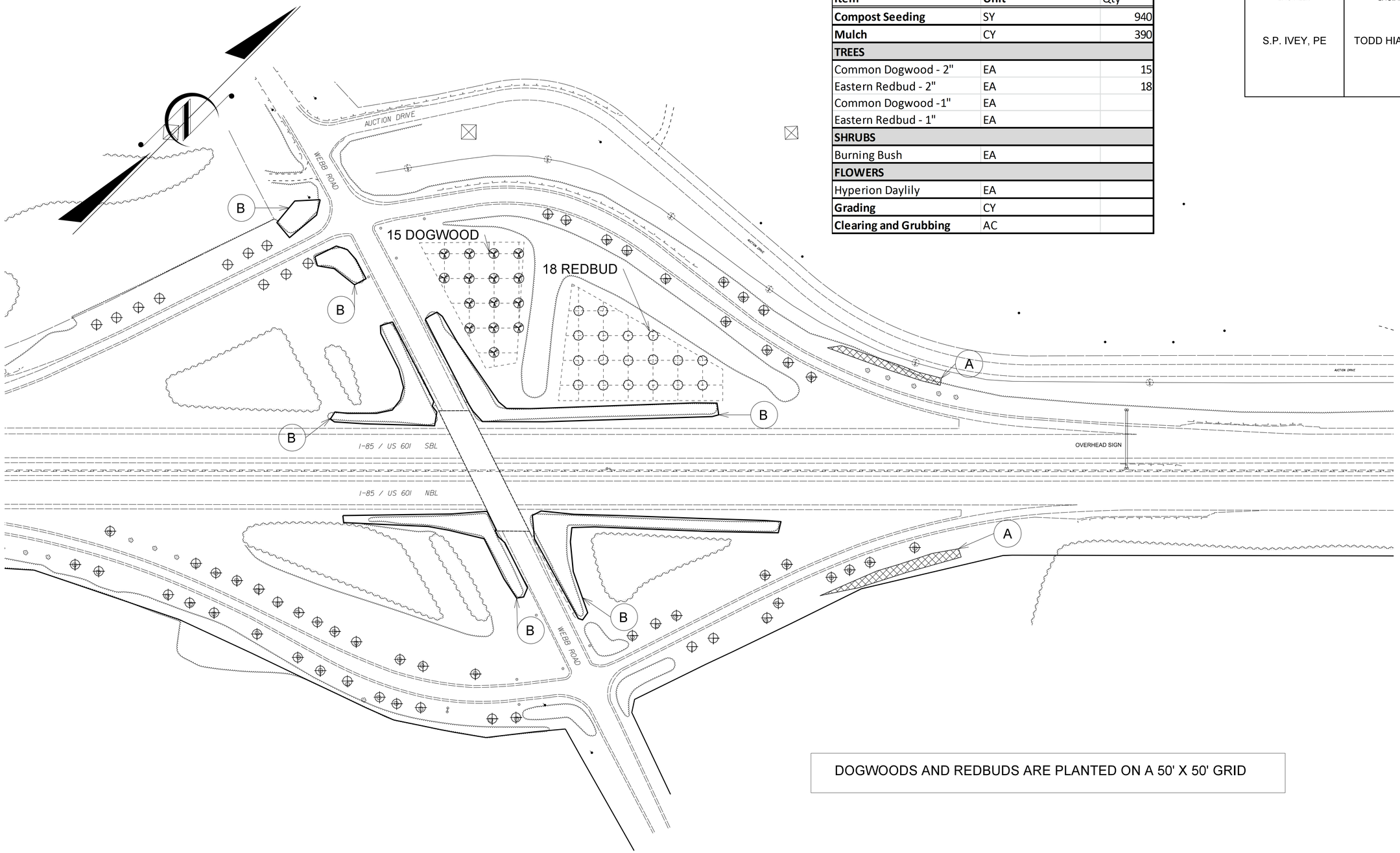
wablanton AT D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	6
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	940
Mulch	CY	390
TREES		
Common Dogwood - 2"	EA	15
Eastern Redbud - 2"	EA	18
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



DOGWOODS AND REDBUDS ARE PLANTED ON A 50' X 50' GRID

REVISIONS

8/17/99

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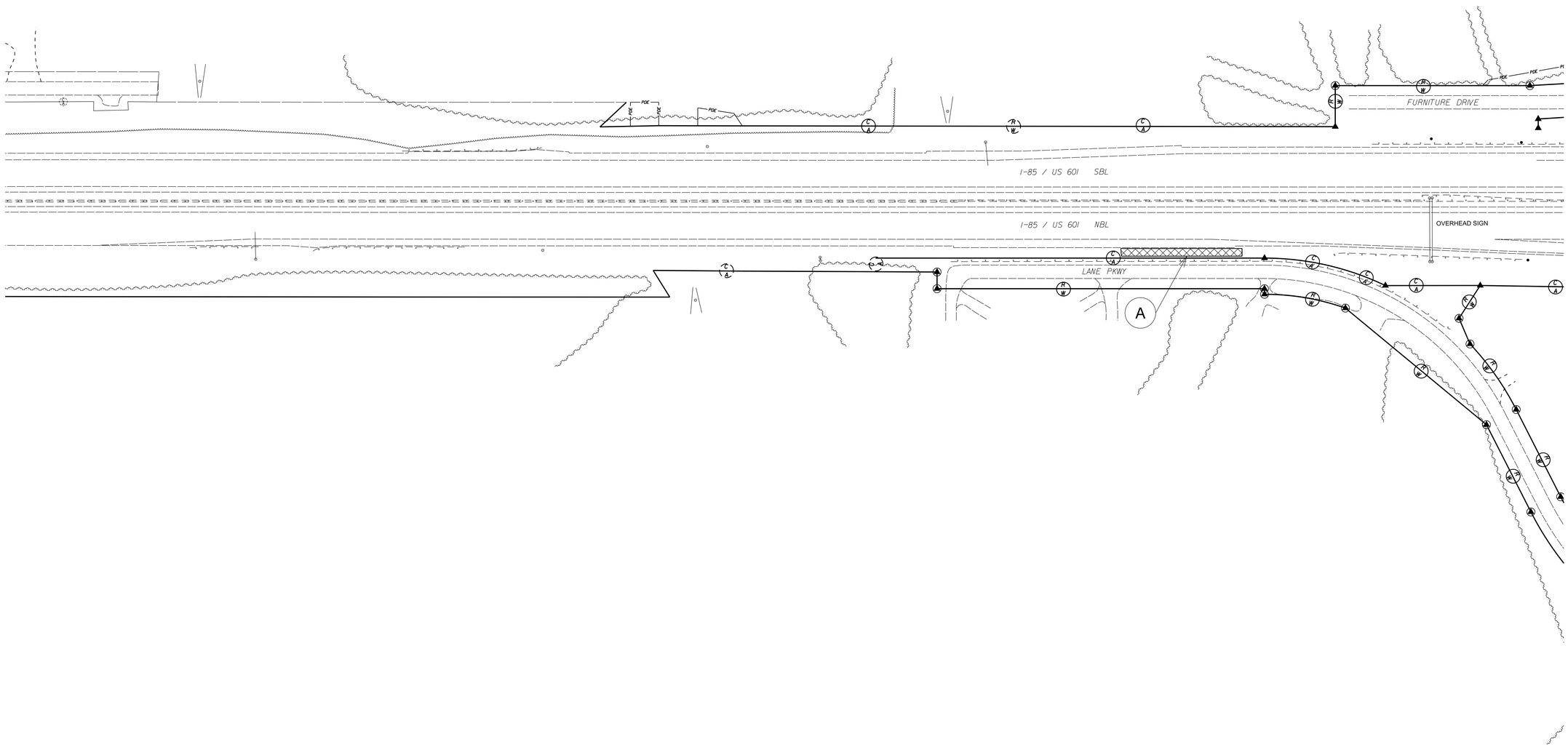
PROJECT REFERENCE NO.	SHEET NO.
	7
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	335
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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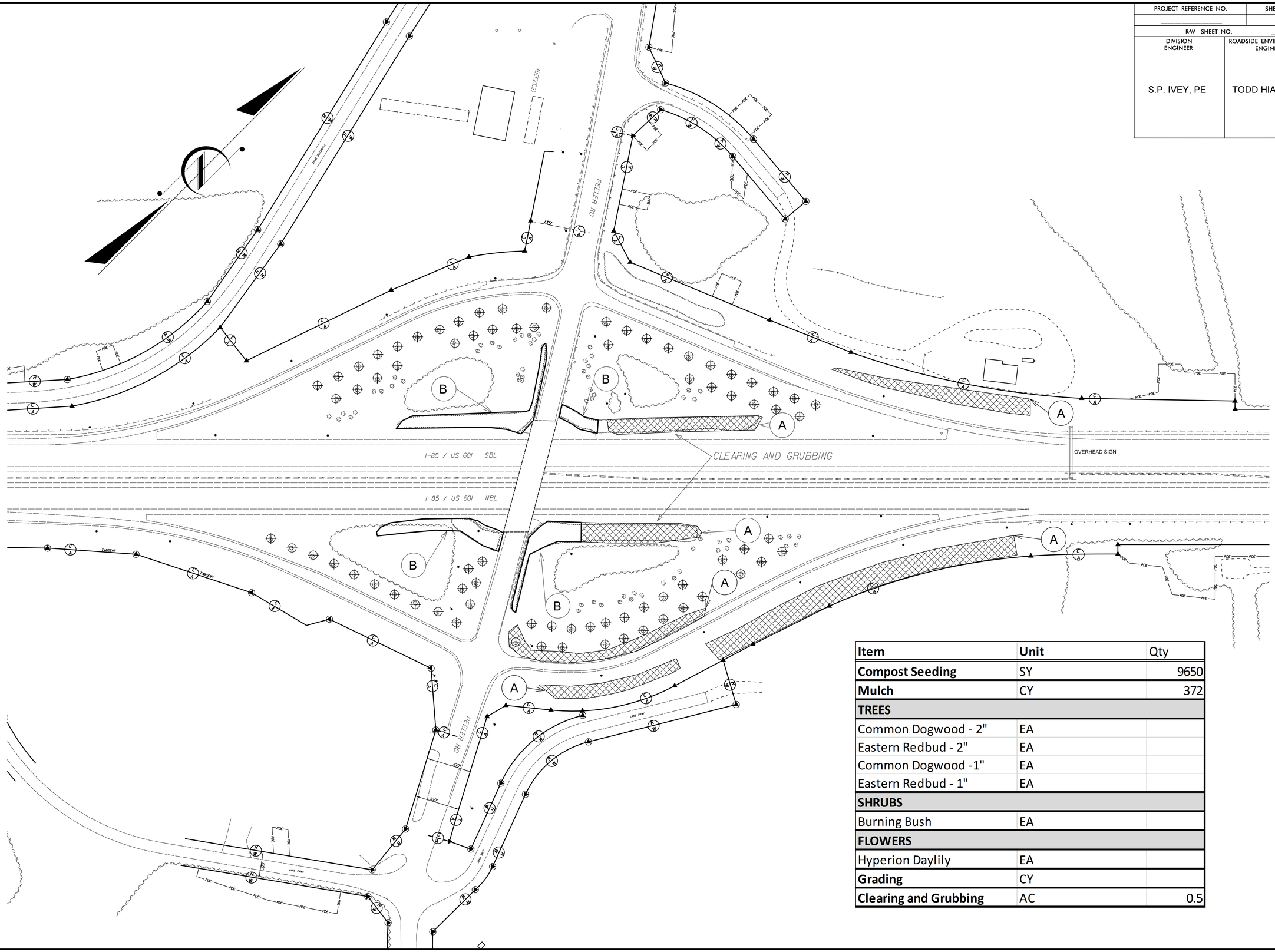
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	8
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

REVISIONS

8/06/13



Item	Unit	Qty
Compost Seeding	SY	9650
Mulch	CY	372
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	0.5

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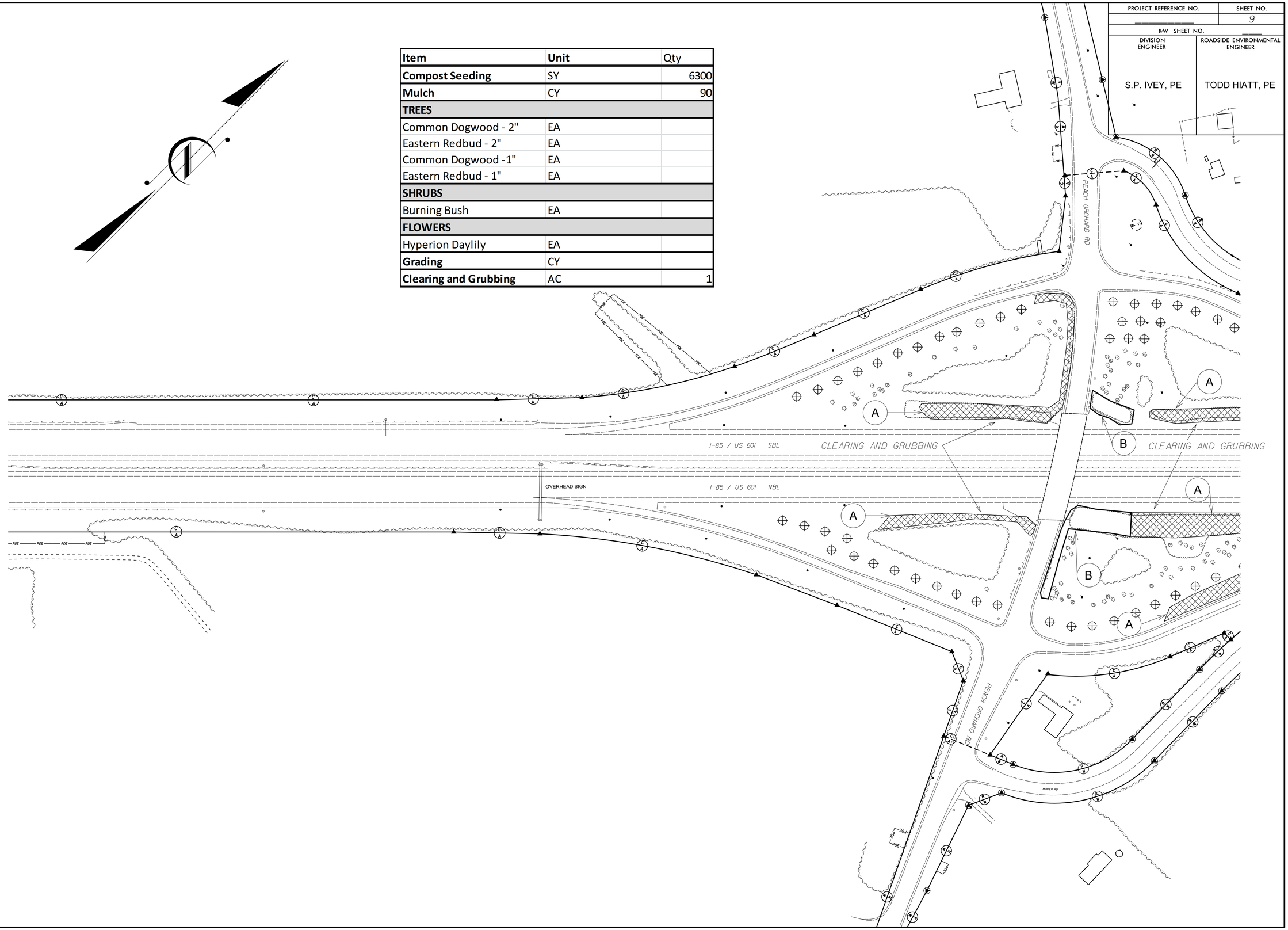
PROJECT REFERENCE NO.	SHEET NO.
	9
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	6300
Mulch	CY	90
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	1



REVISIONS

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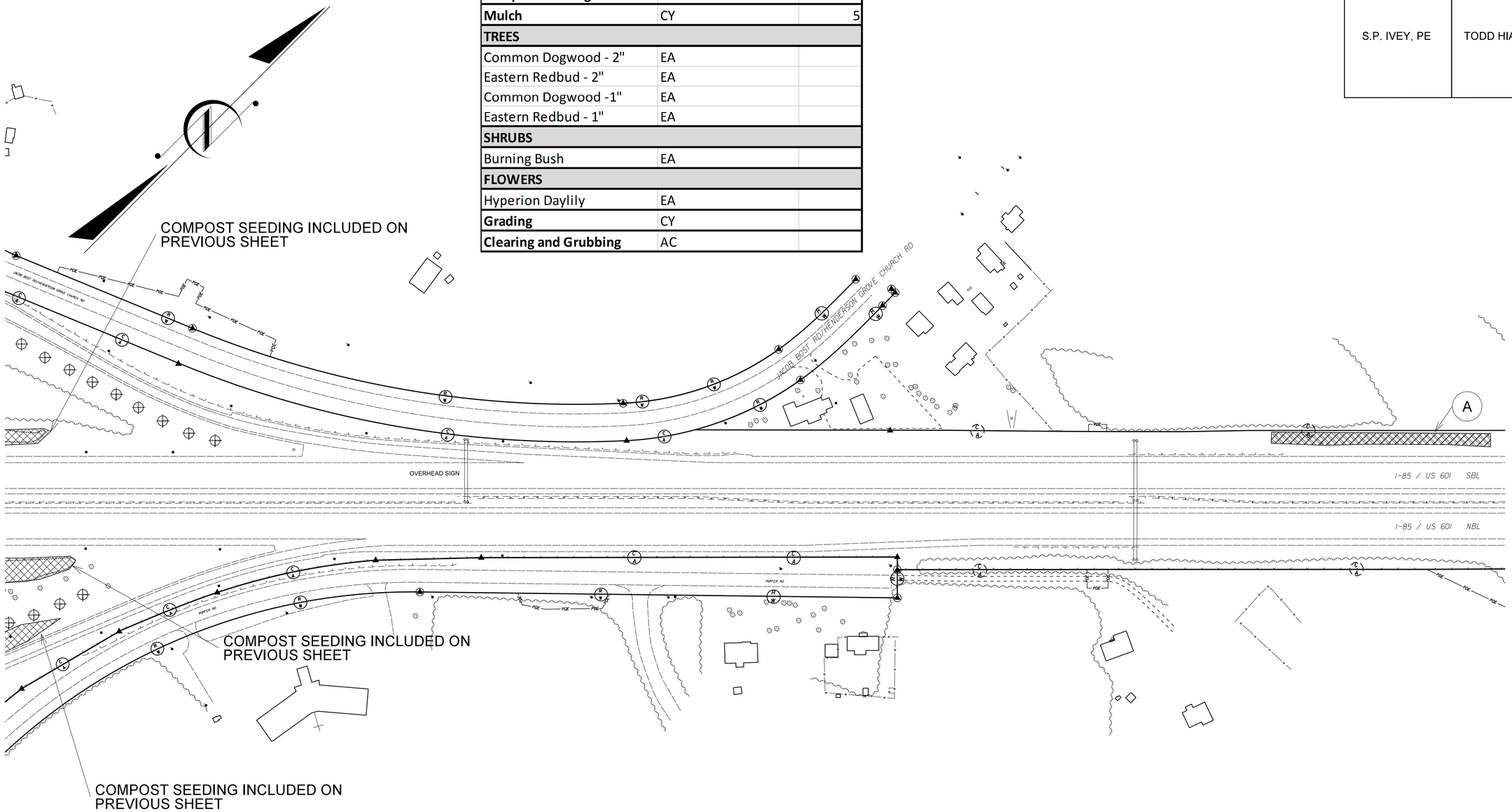
PROJECT REFERENCE NO.	SHEET NO.
	10
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	580
Mulch	CY	5
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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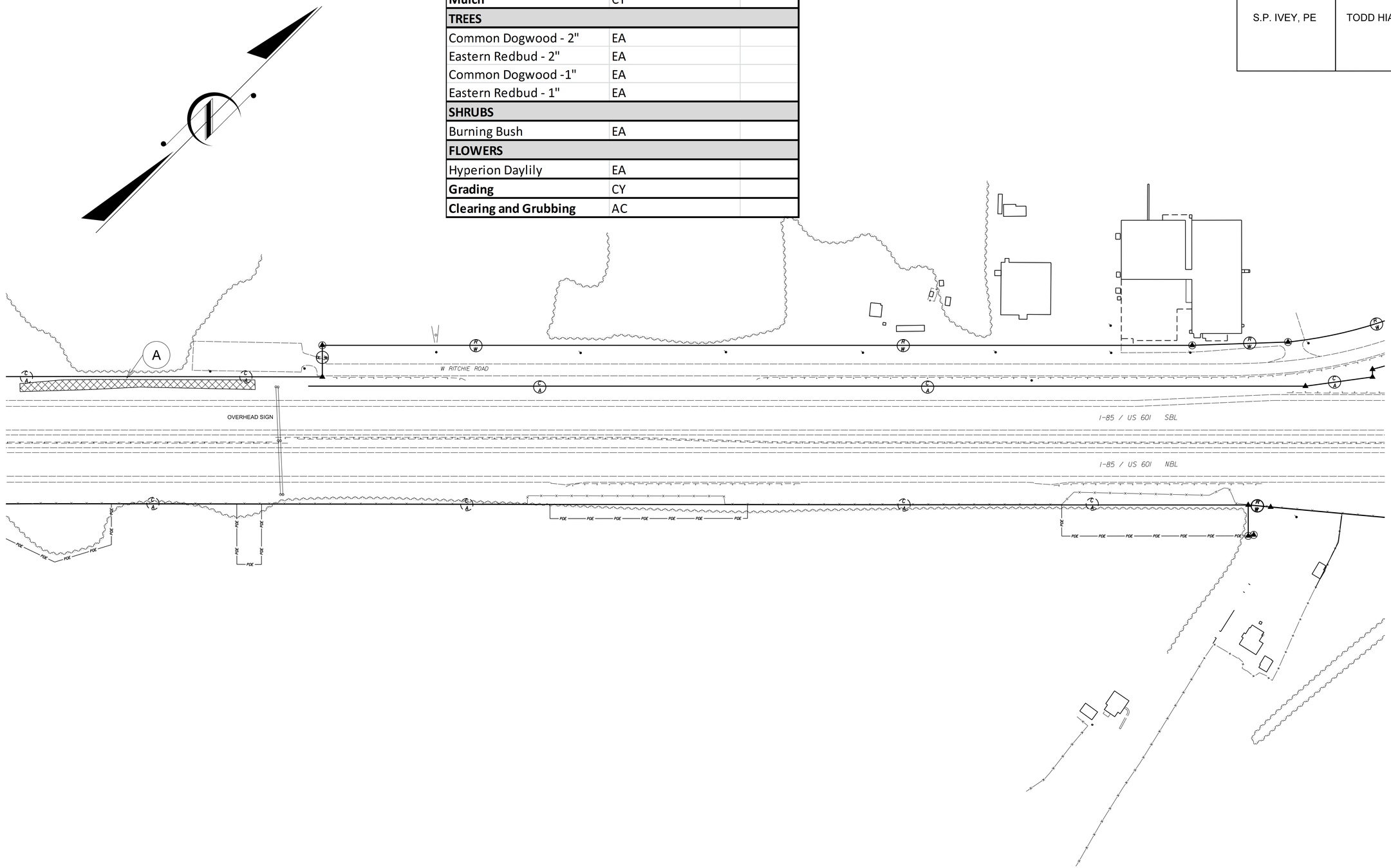
PROJECT REFERENCE NO.	SHEET NO.
	11
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	967
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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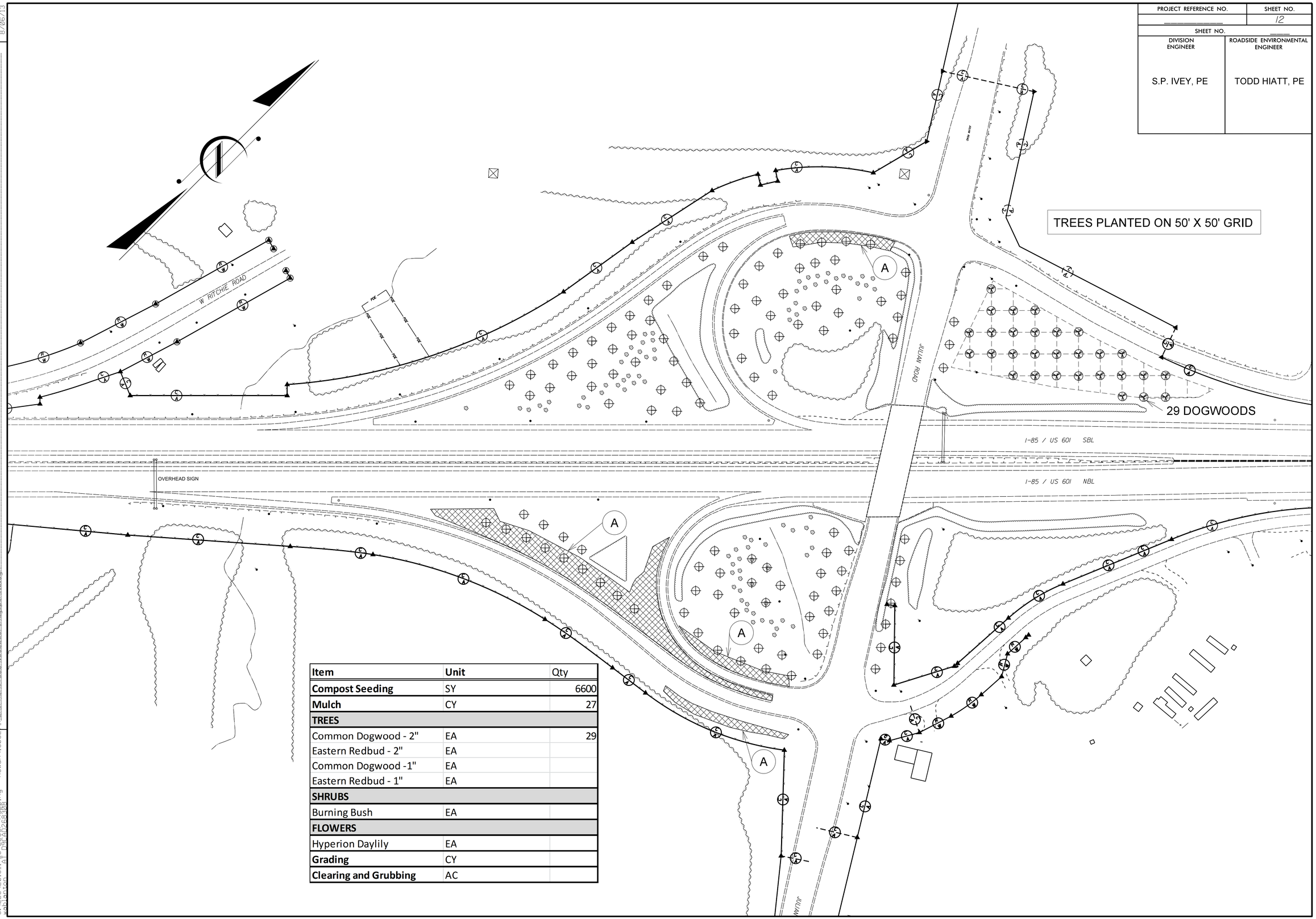
wablanton AT D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	12
SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	6600
Mulch	CY	27
TREES		
Common Dogwood - 2"	EA	29
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

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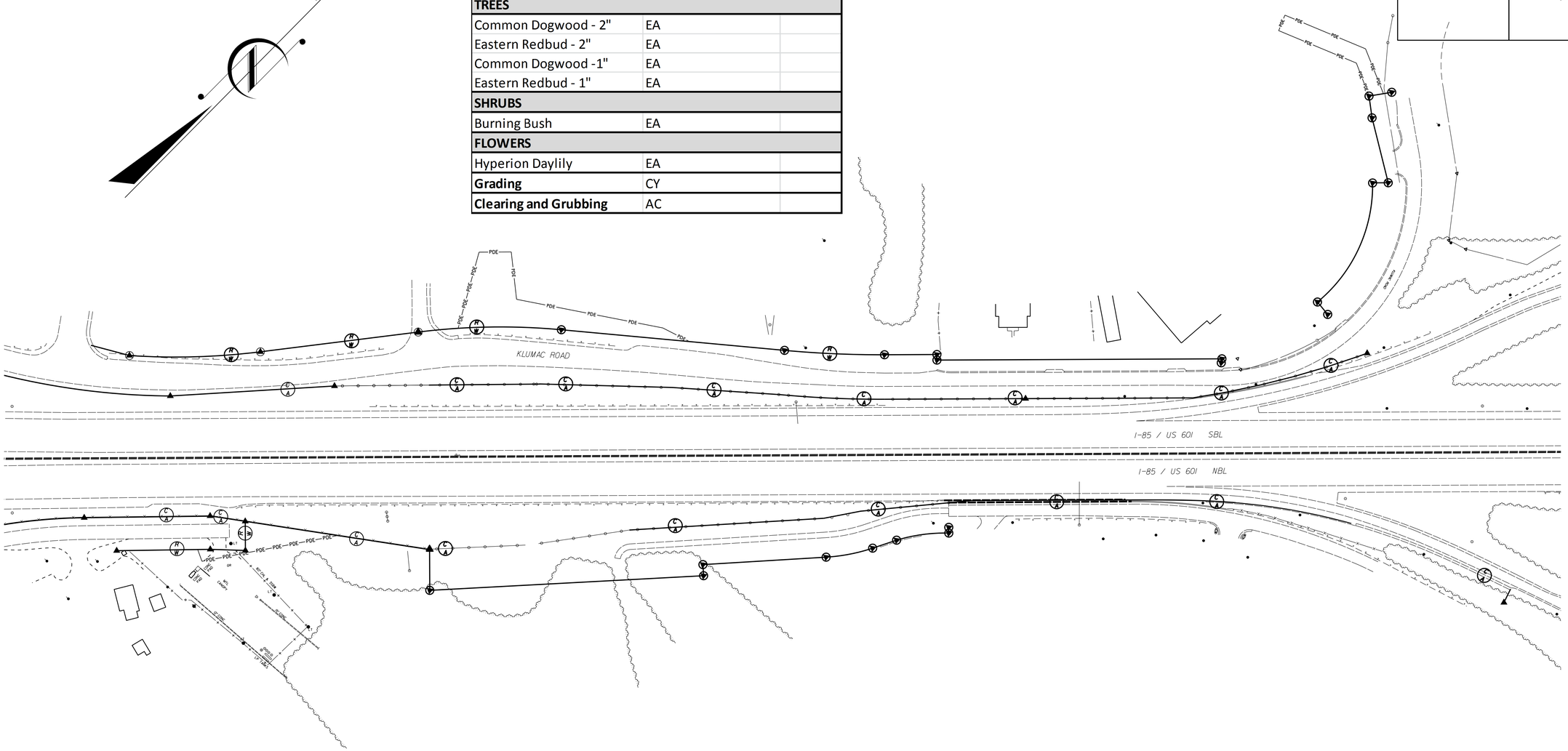
PROJECT REFERENCE NO.	SHEET NO.
	13
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

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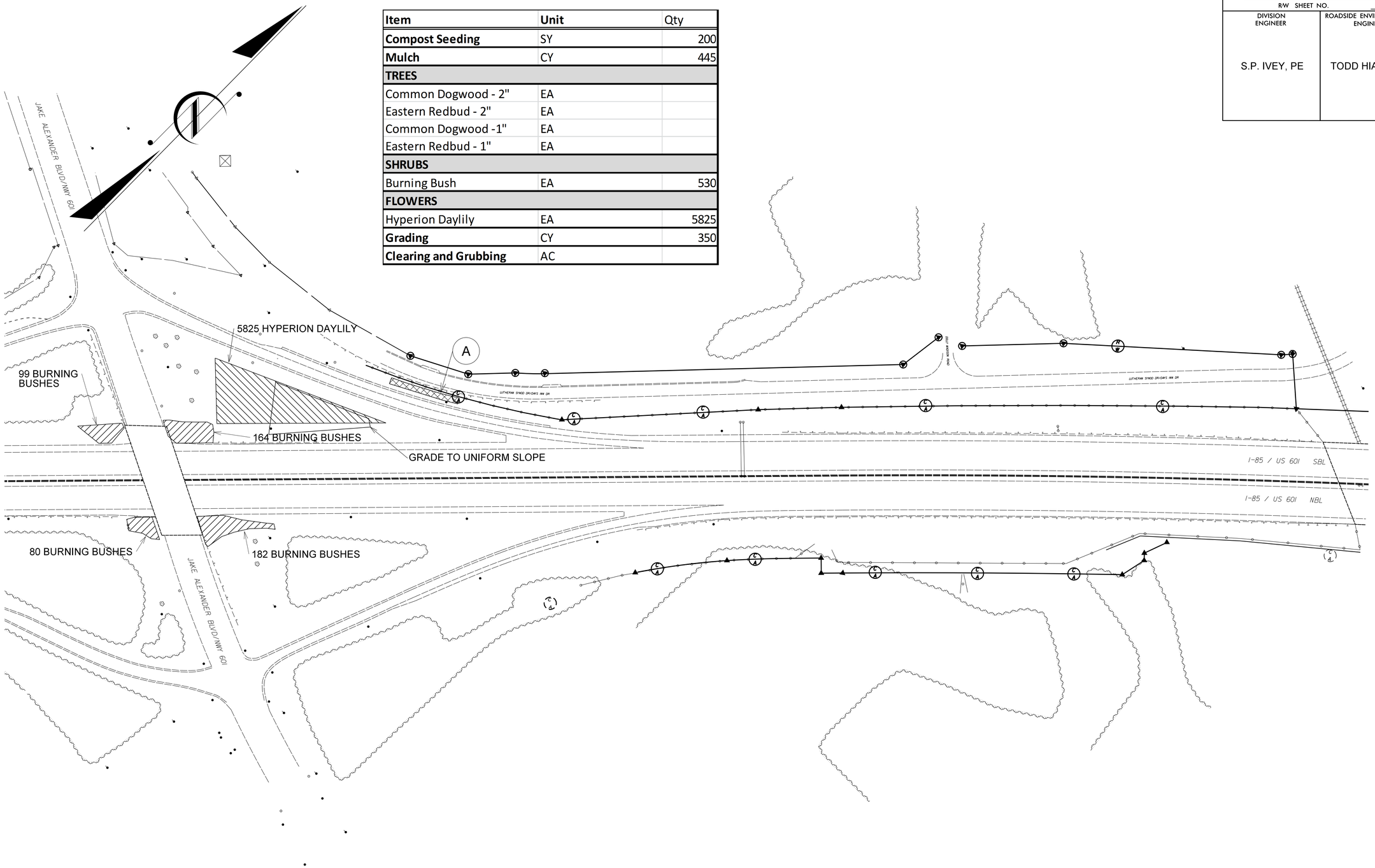
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	14
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	200
Mulch	CY	445
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	530
FLOWERS		
Hyperion Daylily	EA	5825
Grading	CY	350
Clearing and Grubbing	AC	



REVISIONS

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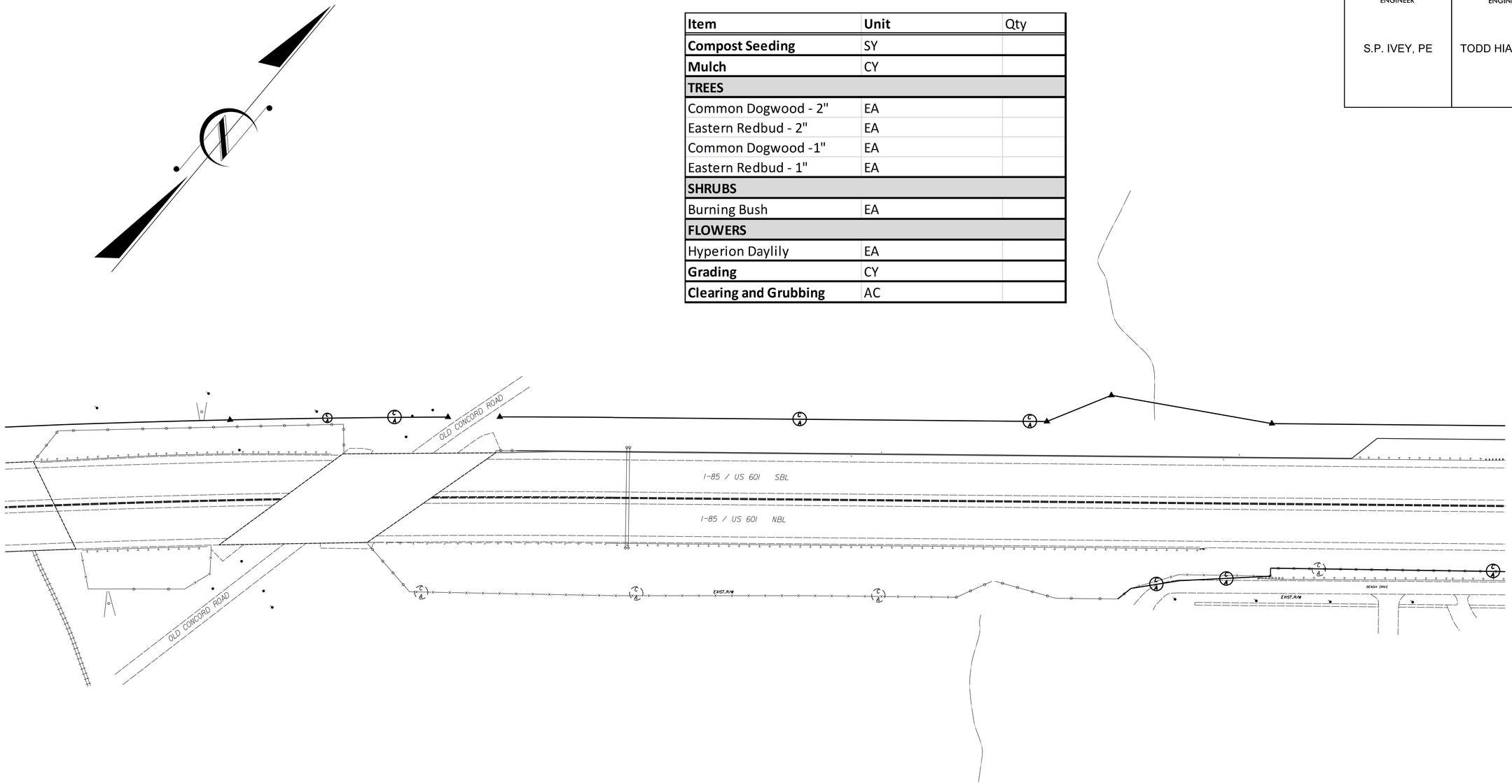
PROJECT REFERENCE NO.	SHEET NO.
	15
SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

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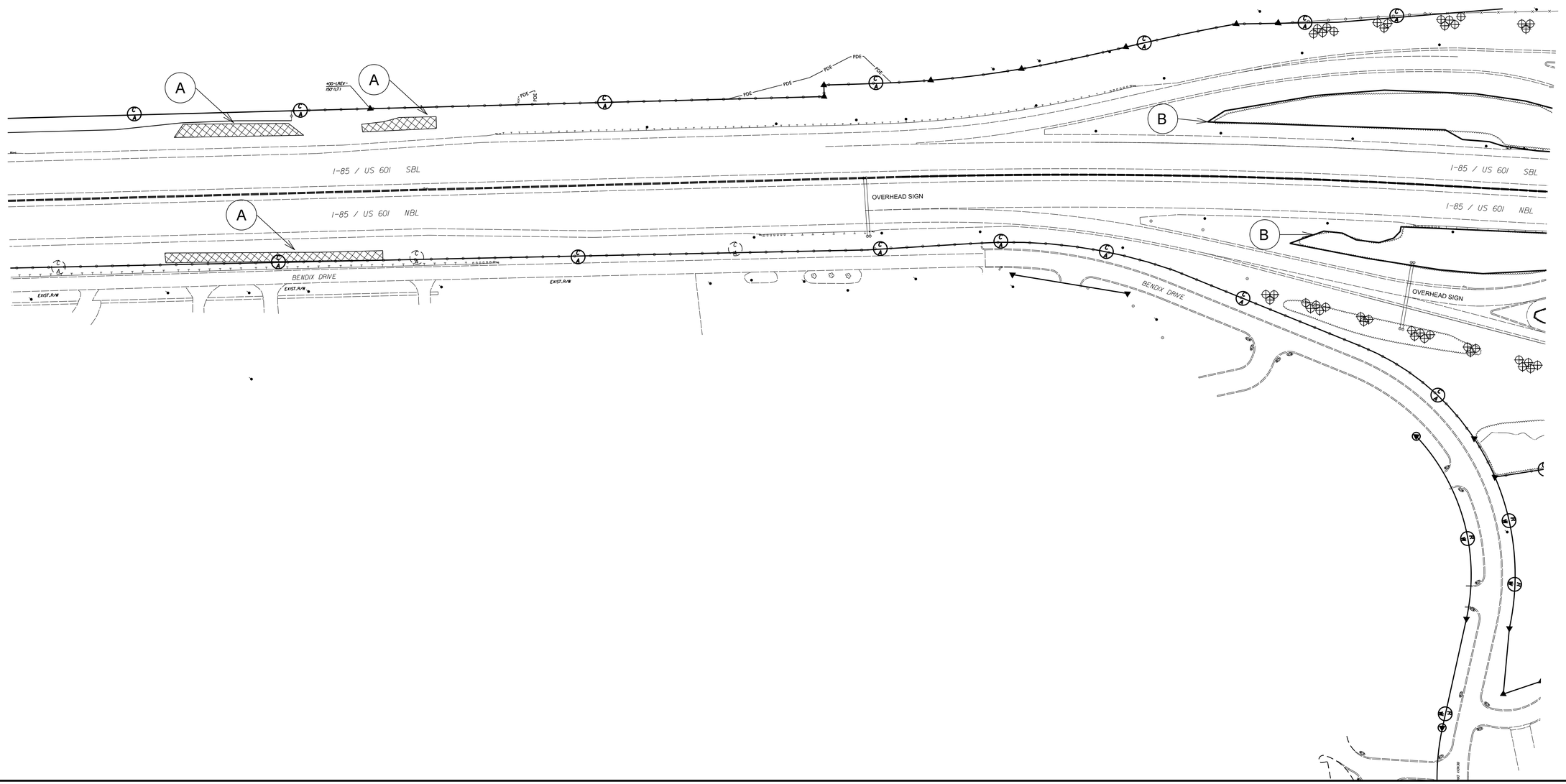
PROJECT REFERENCE NO.	SHEET NO.
	16
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	1575
Mulch	CY	248
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

33



REVISIONS

8/06/13

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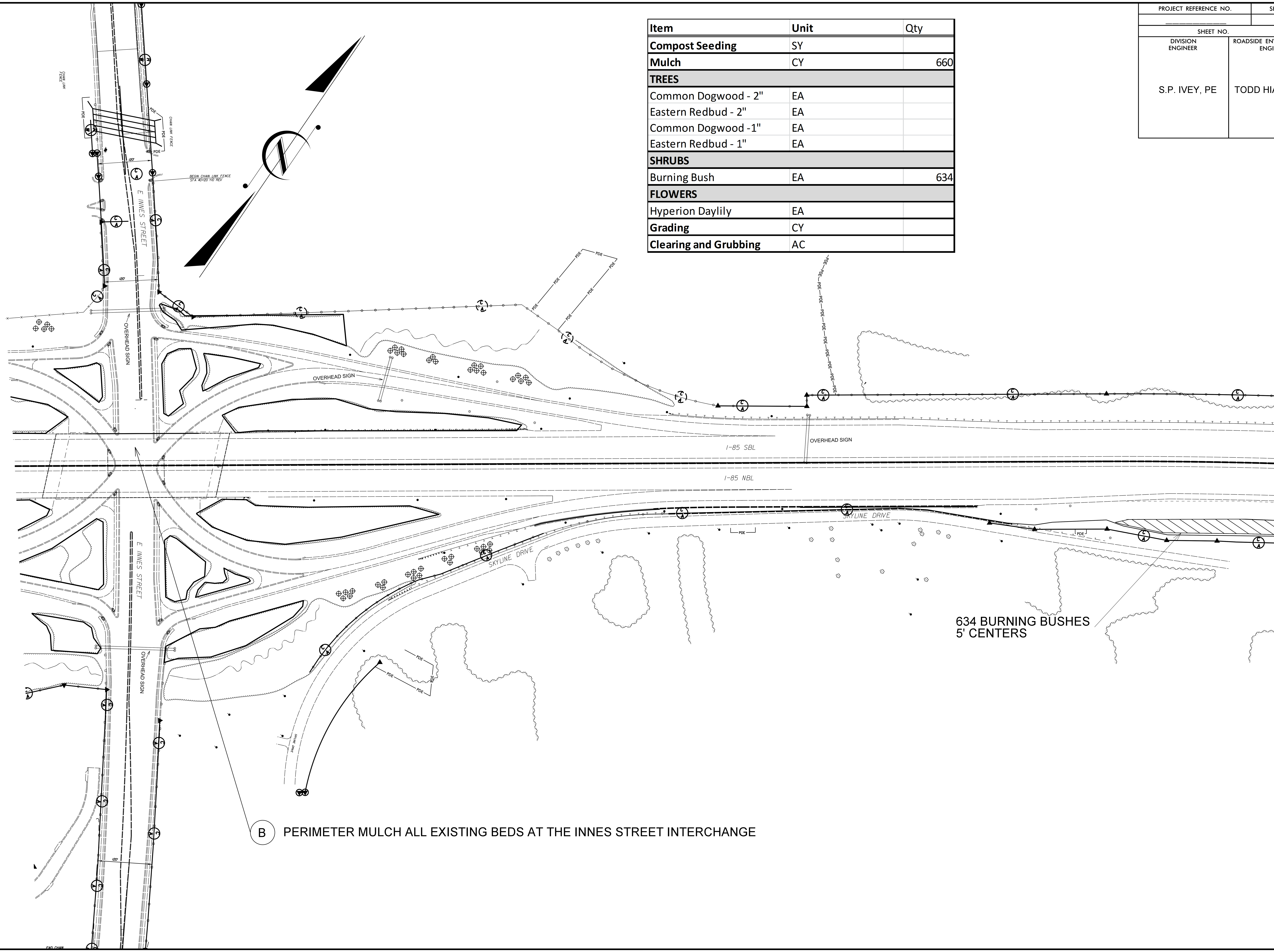
wablanton AT D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	17

SHEET NO.

DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	660
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	634
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



B PERIMETER MULCH ALL EXISTING BEDS AT THE INNES STREET INTERCHANGE

634 BURNING BUSHES
5' CENTERS

REVISIONS

8/06/13

18-OCT-2013 14:26
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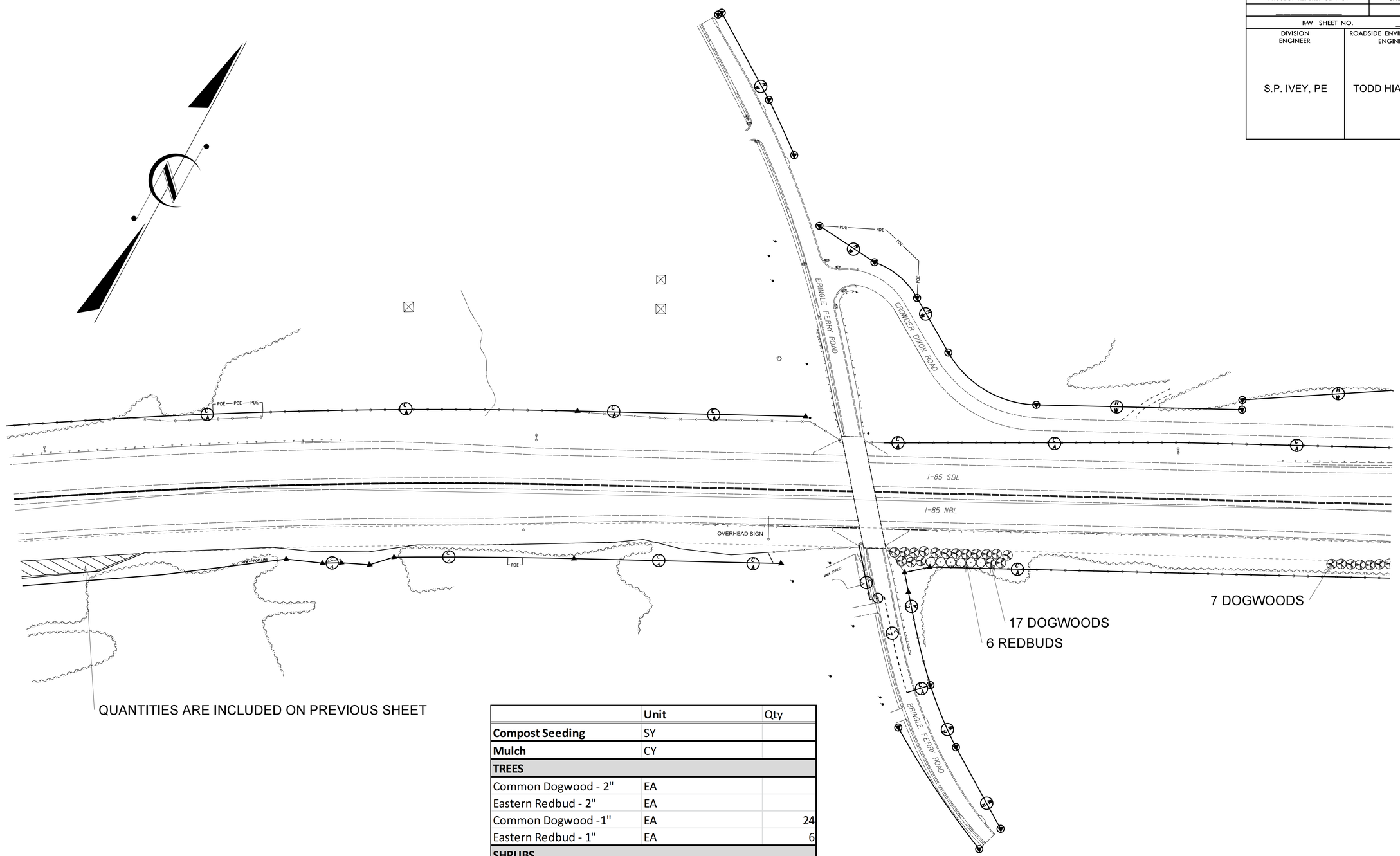
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	18
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	24
Eastern Redbud - 1"	EA	6
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

18-OCT-2013 14:28
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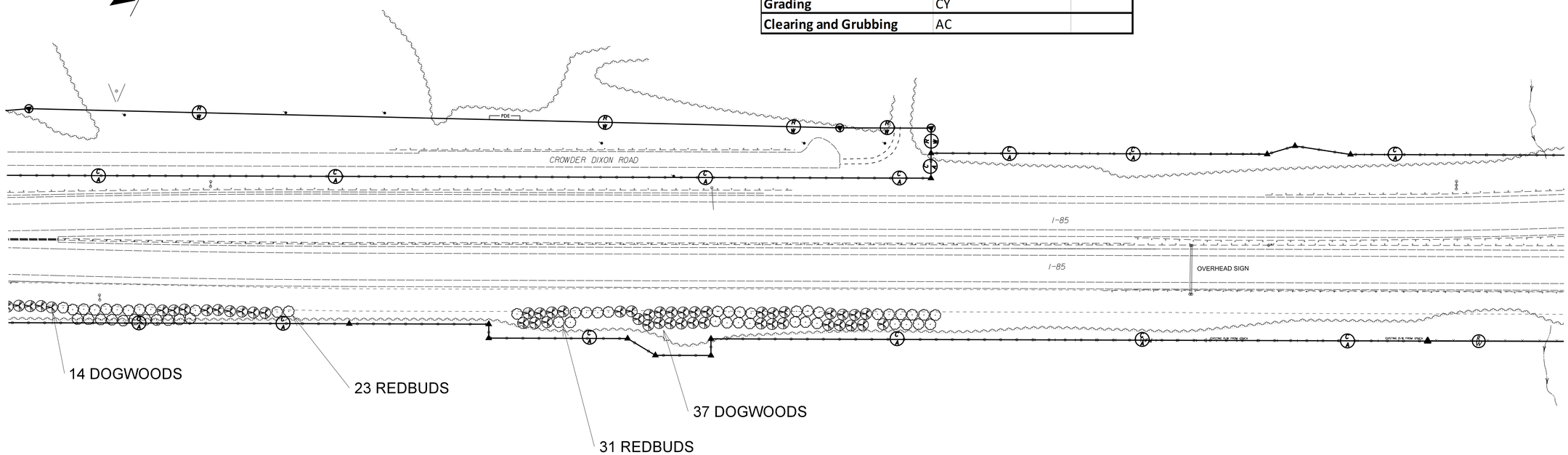
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	19
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE

	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	51
Eastern Redbud - 1"	EA	54
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

18-OCT-2013 14:30
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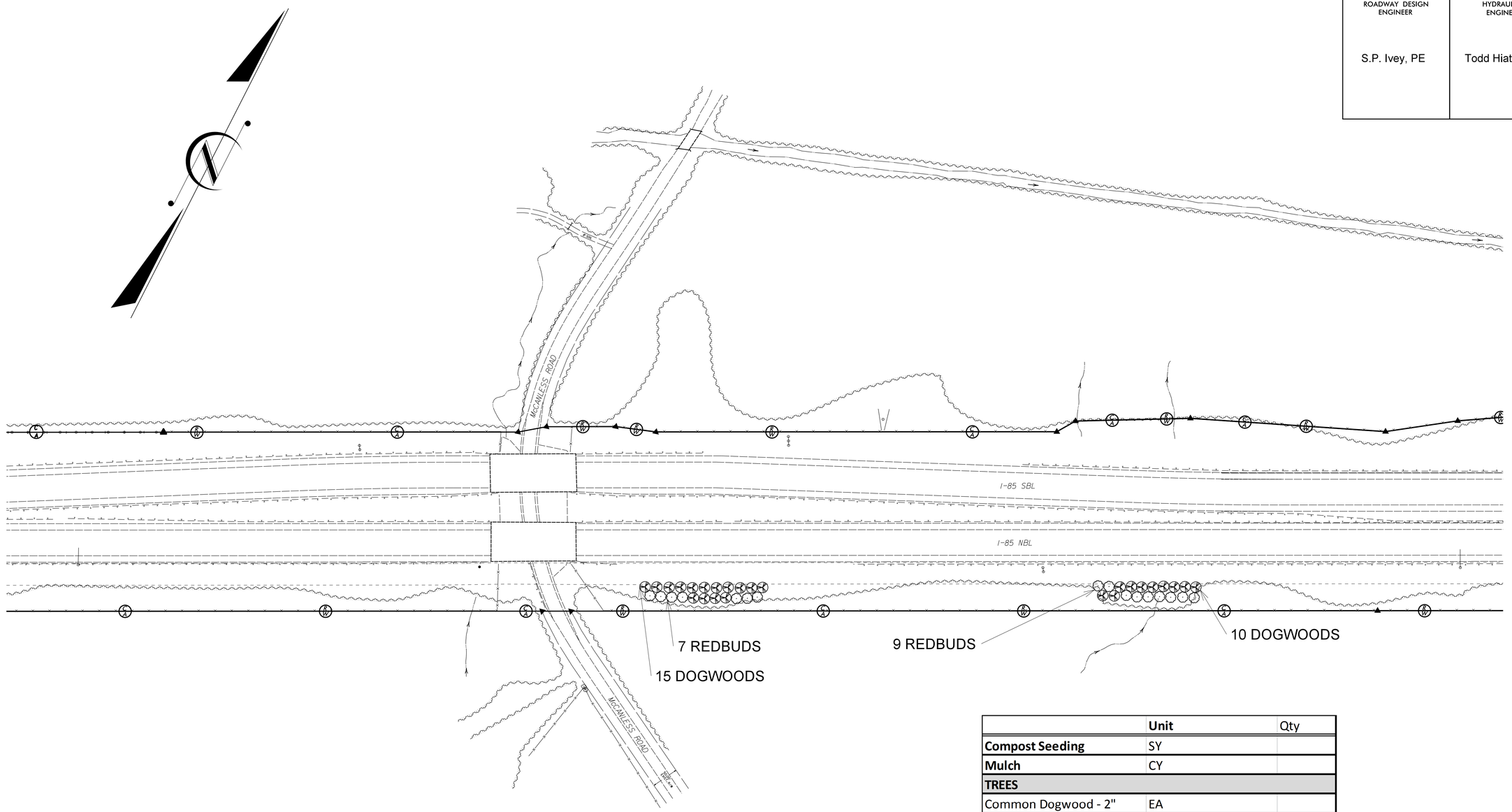
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
S.P. Ivey, PE	Todd Hiatt, PE



	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	25
Eastern Redbud - 1"	EA	16
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

18-OCT-2013 14:32
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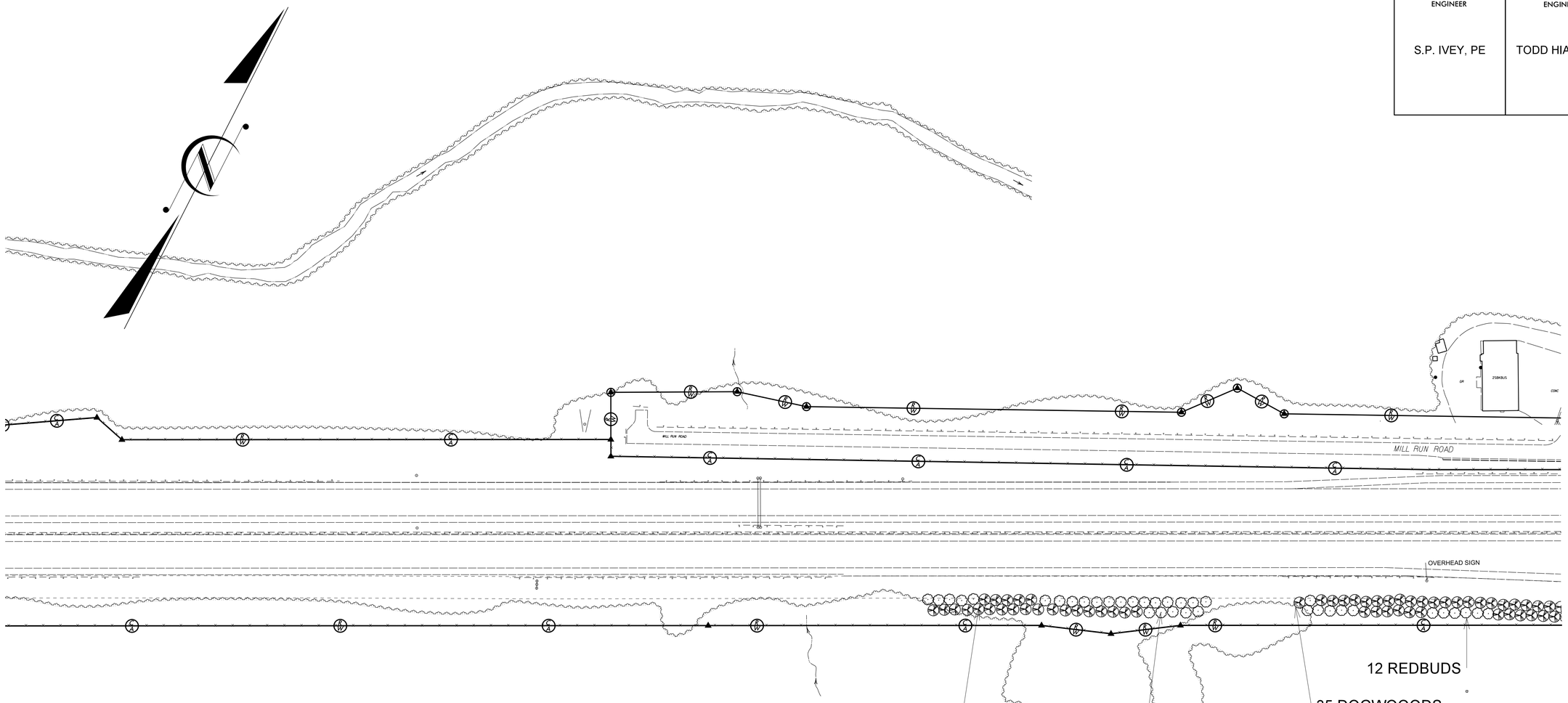
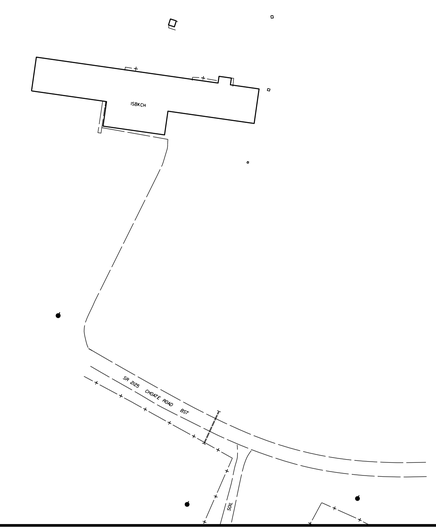
wablanton AT D9CAD268308

PROJECT REFERENCE NO.	SHEET NO.
	21
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	47
Eastern Redbud - 1"	EA	36
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	



REVISIONS

8/06/13

18-OCT-2013 15:18
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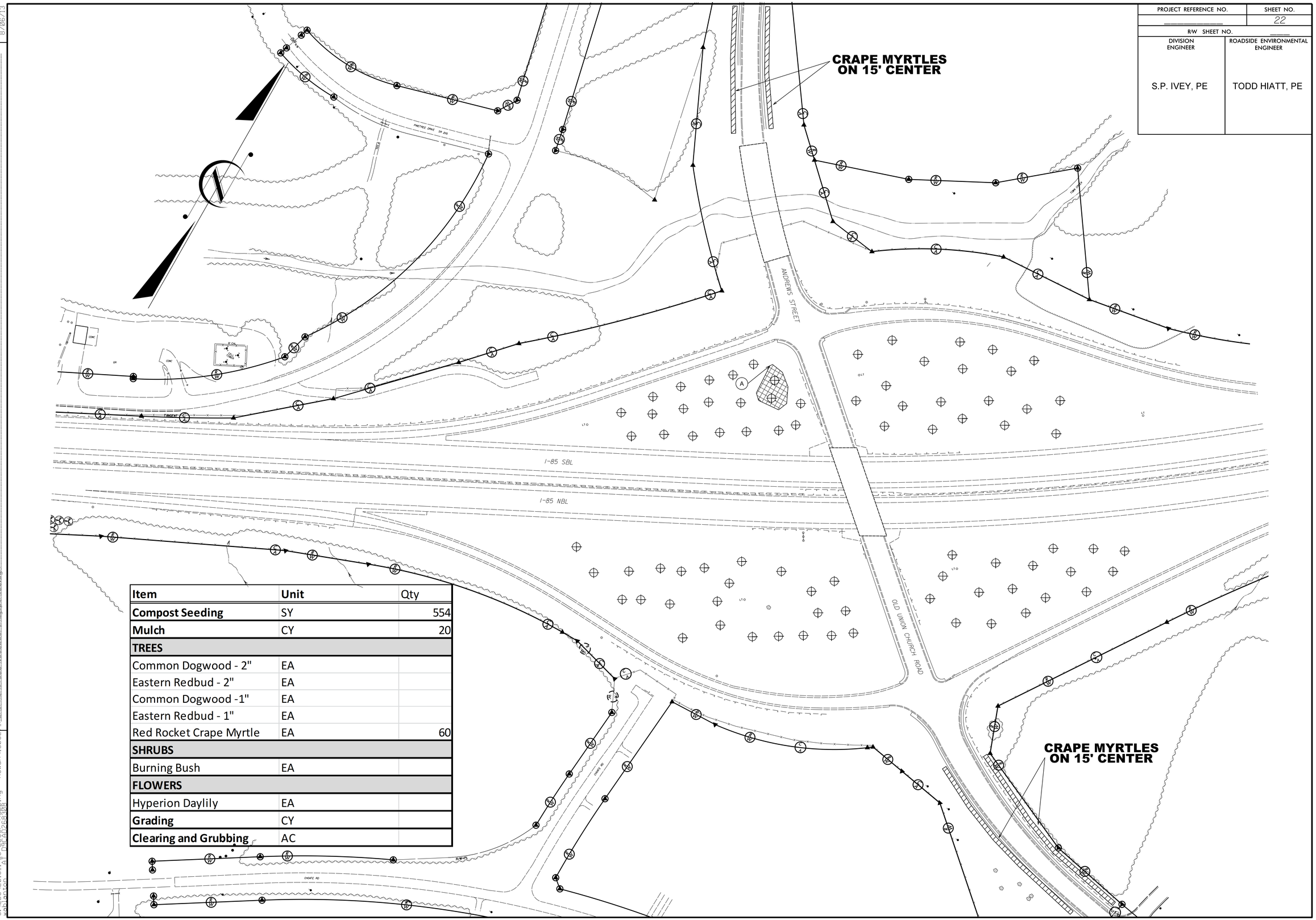
wablanton AT D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	22
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	554
Mulch	CY	20
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
Red Rocket Crape Myrtle	EA	60
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

25-OCT-2013 07:45
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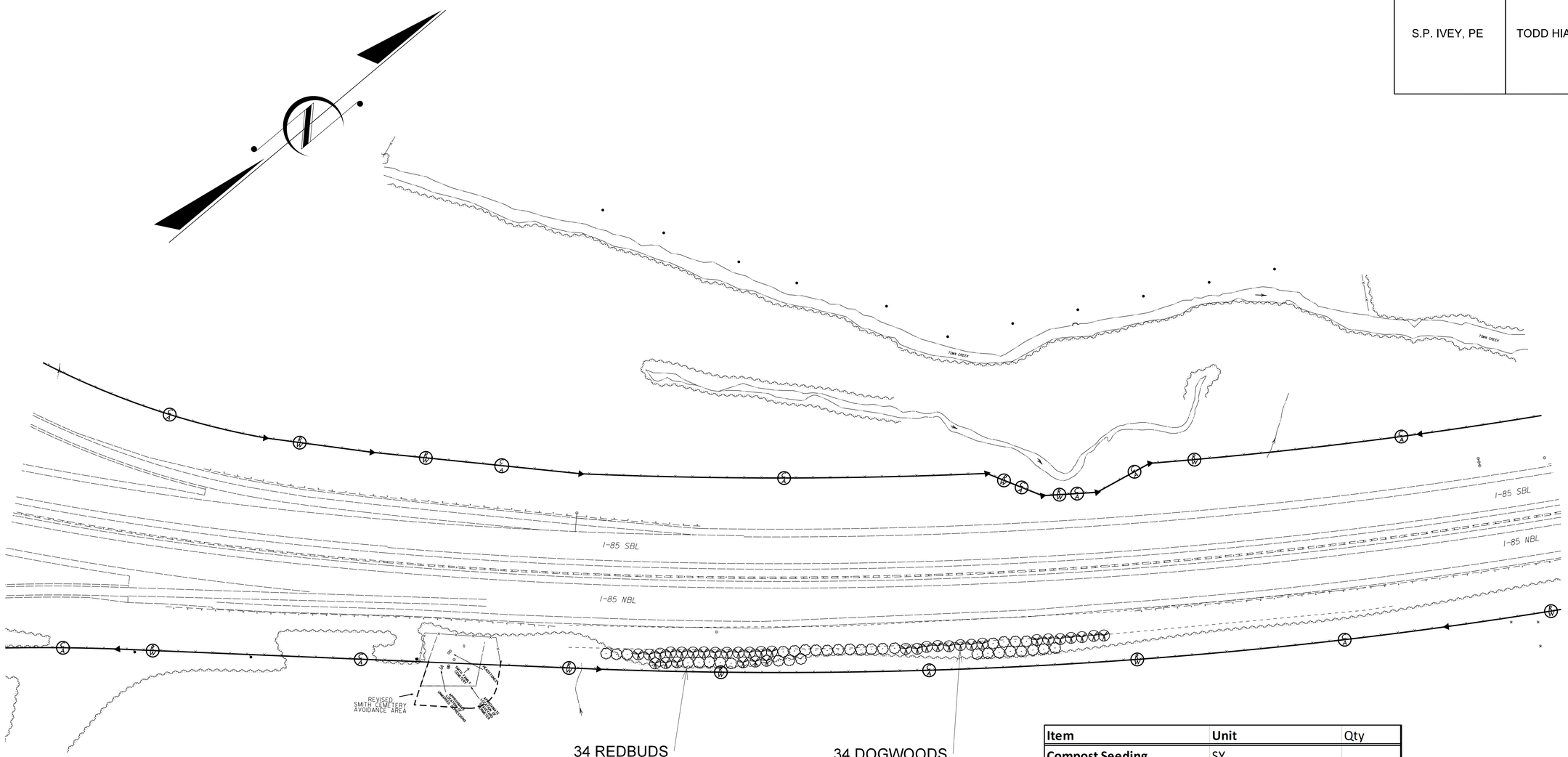
PROJECT REFERENCE NO.	SHEET NO.
	23
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	34
Eastern Redbud - 1"	EA	34
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

18-OCT-2013 15:23
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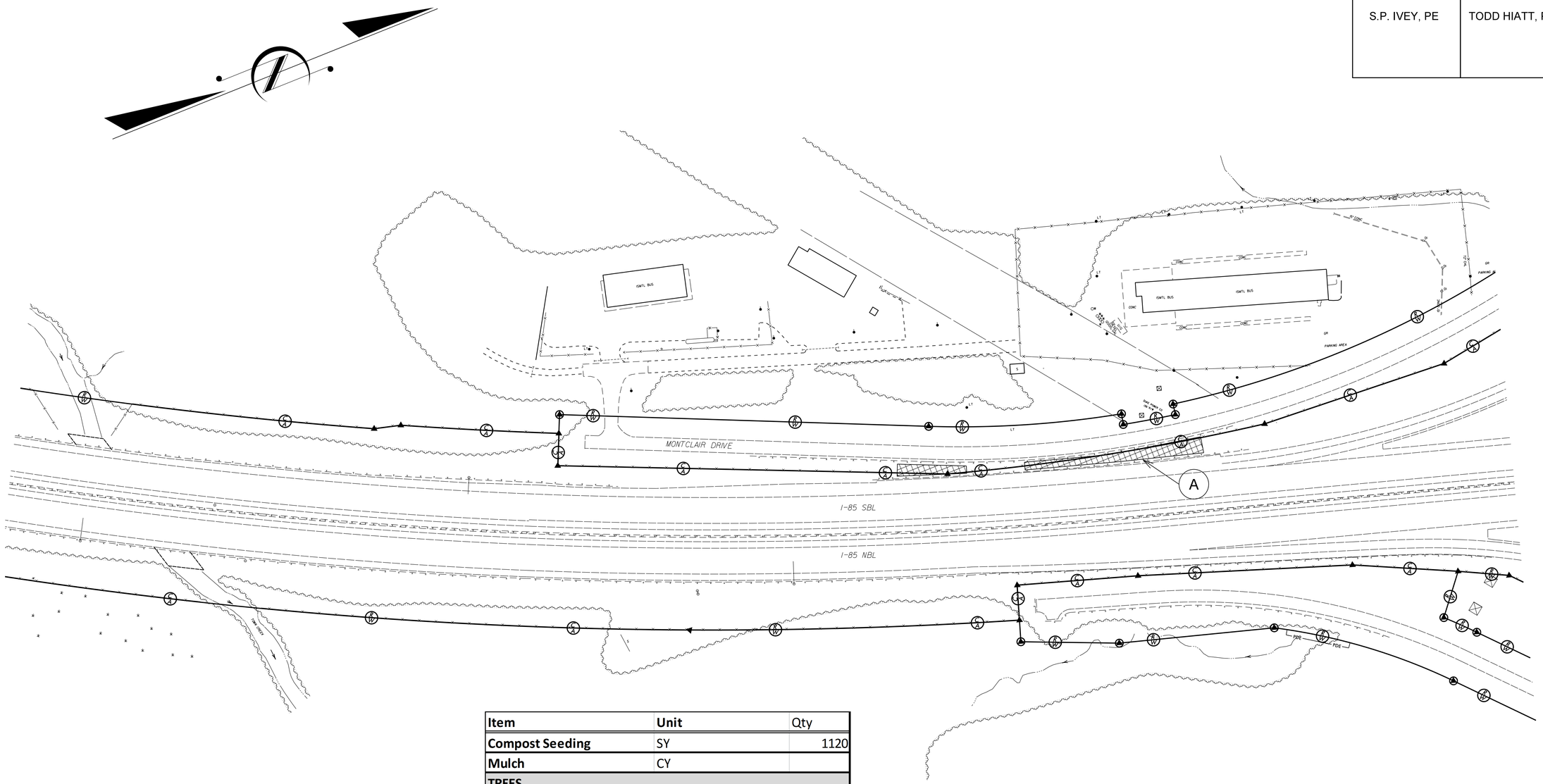
wablanton AT D9CAD26830B

PROJECT REFERENCE NO.	SHEET NO.
	24
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	1120
Mulch	CY	
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

18-OCT-2013 15:14
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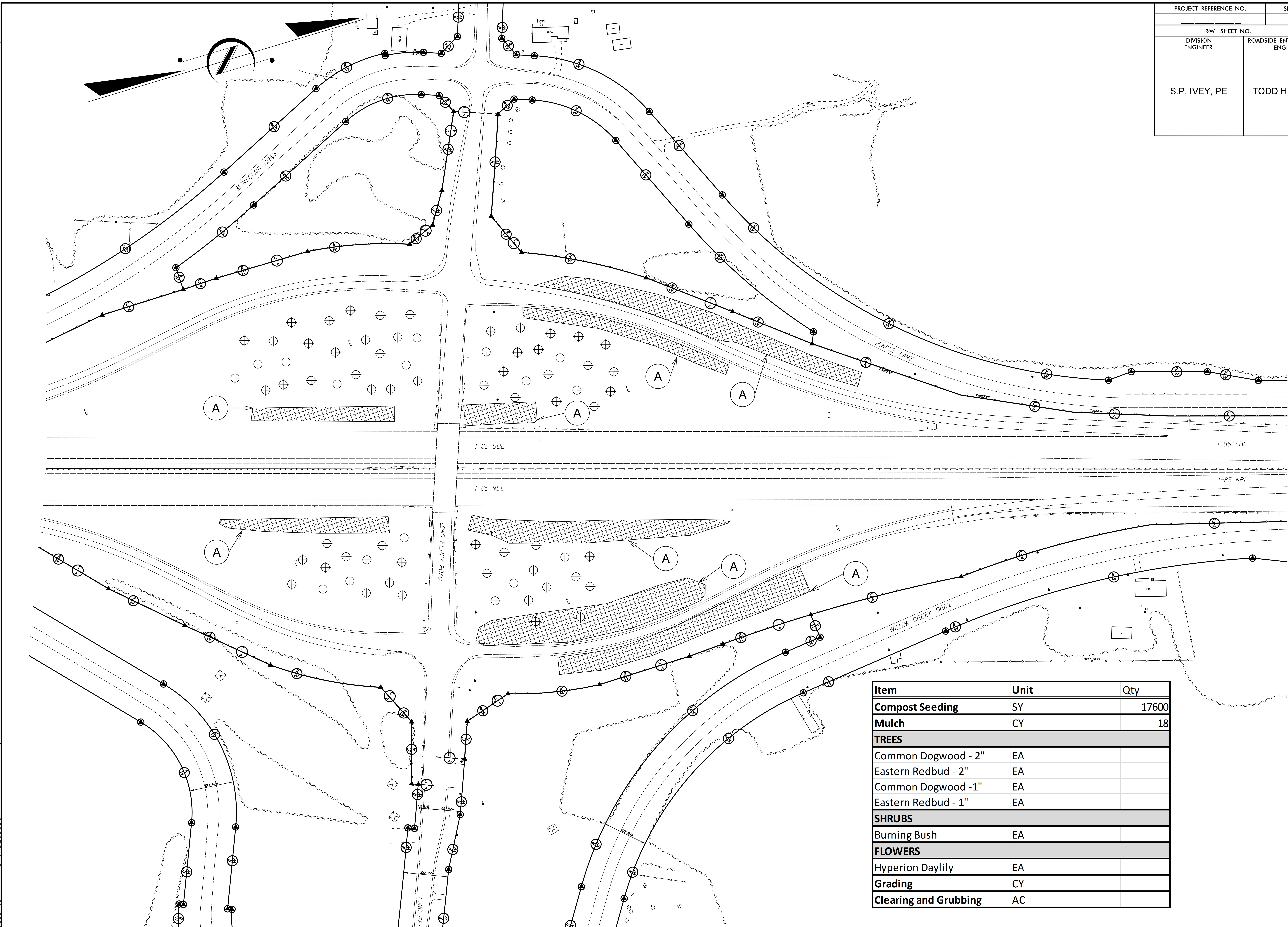
PROJECT REFERENCE NO.	SHEET NO.
	25
R/W SHEET NO.	
DIVISION ENGINEER	ROADSIDE ENVIRONMENTAL ENGINEER
S.P. IVEY, PE	TODD HIATT, PE



Item	Unit	Qty
Compost Seeding	SY	17600
Mulch	CY	18
TREES		
Common Dogwood - 2"	EA	
Eastern Redbud - 2"	EA	
Common Dogwood -1"	EA	
Eastern Redbud - 1"	EA	
SHRUBS		
Burning Bush	EA	
FLOWERS		
Hyperion Daylily	EA	
Grading	CY	
Clearing and Grubbing	AC	

REVISIONS

8/06/13

18-OCT-2013 15:16
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