CONTRACT NO. 72829

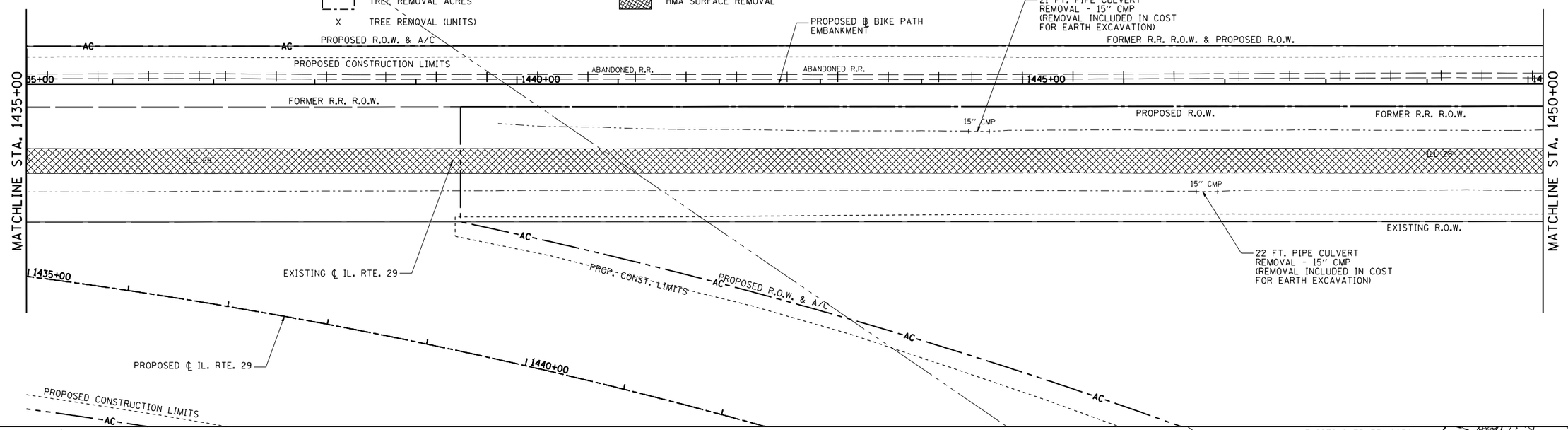
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	401
STA. 105+00.00		TO STA. 135+00.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

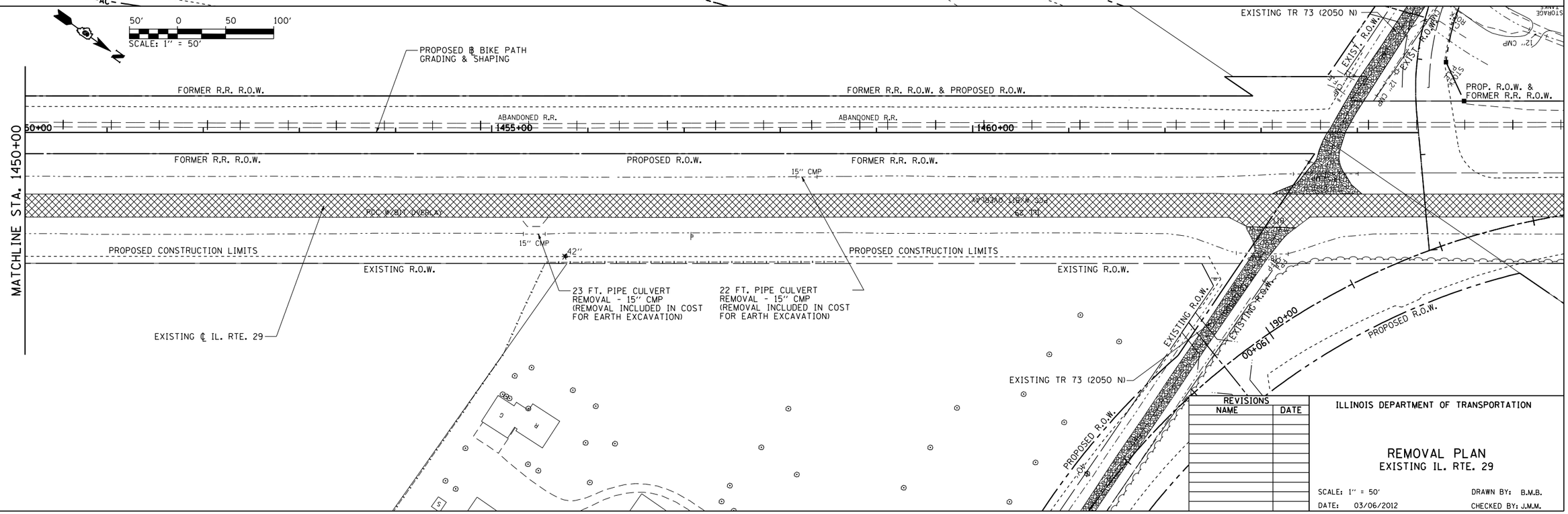
* SANGAMON AND CHRISTIAN

REMOVAL LEGEND

- ILLINOIS NATIVE PRARIE GRASS
- PAVEMENT REMOVAL
- PAVEMENT BREAKING IN ACCORDANCE WITH ARTICLE 205.03. COST INCLUDED IN EMBANKMENT.
- TREE REMOVAL ACRES
- X TREE REMOVAL (UNITS)
- EXISTING OIL & CHIP PAVEMENT TO BE REMOVED. COST INCLUDED IN EARTH EXCAVATION
- GRAVEL DRIVEWAY REMOVAL. COST INCLUDED IN EARTH EXCAVATION.
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL

50' 0 50 100'
SCALE: 1" = 50'





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
EXISTING IL. RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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4/23/2012

REMOVAL PLAN: EXISTING IL. RTE. 29

CONTRACT NO. 72829

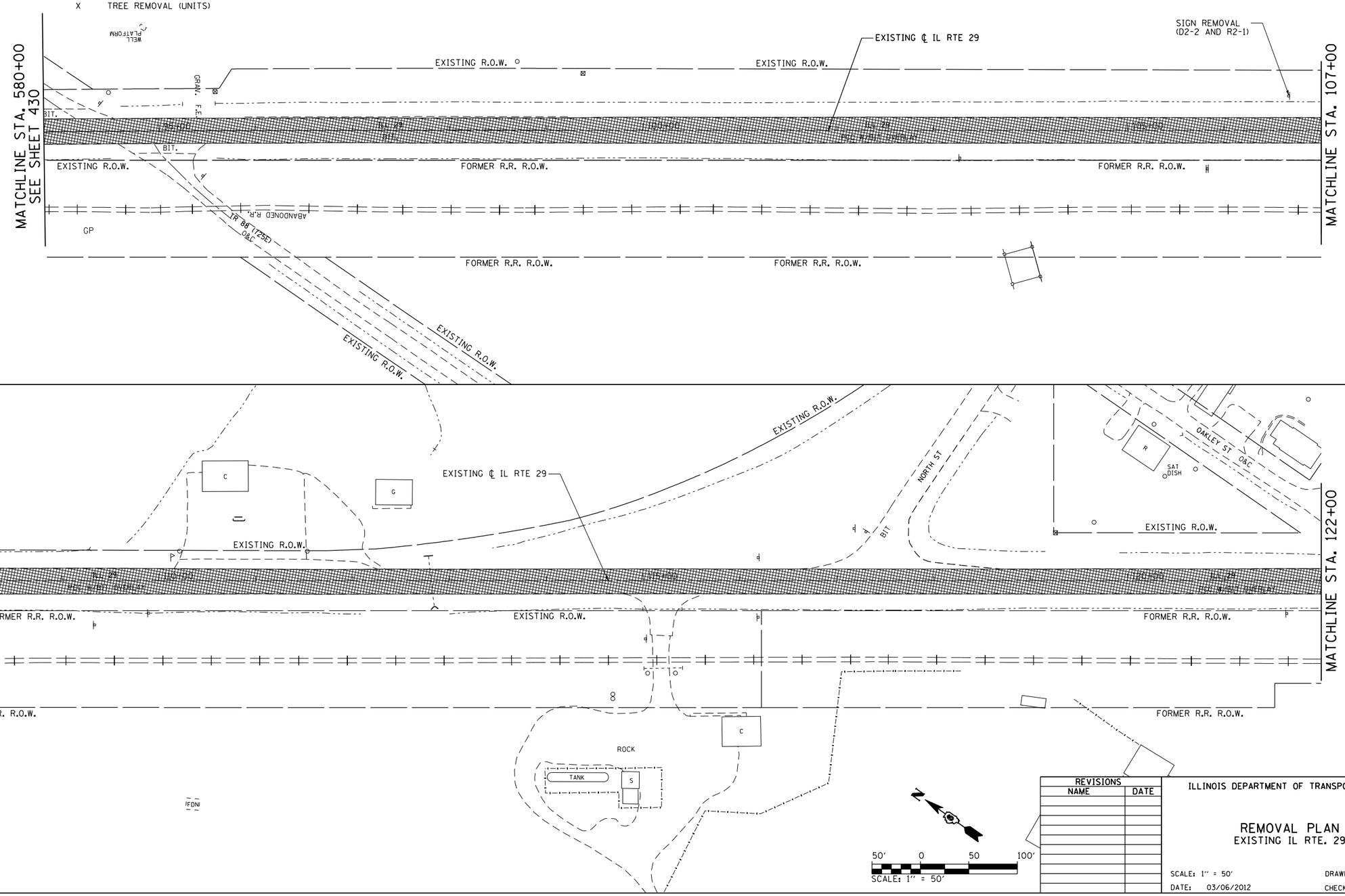
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	402
STA. 580+00.00	TO STA. 122+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

REMOVAL LEGEND

- ILLINOIS NATIVE PRARIE GRASS
- PAVEMENT REMOVAL
- PAVEMENT BREAKING IN ACCORDANCE WITH ARTICLE 205.03. COST INCLUDED IN EMBANKMENT.
- TREE REMOVAL ACRES
- X TREE REMOVAL (UNITS)
- EXISTING OIL & CHIP PAVEMENT TO BE REMOVED. COST INCLUDED IN EARTH EXCAVATION
- GRAVEL DRIVEWAY REMOVAL. COST INCLUDED IN EARTH EXCAVATION.
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL

SCALE: 1" = 50'



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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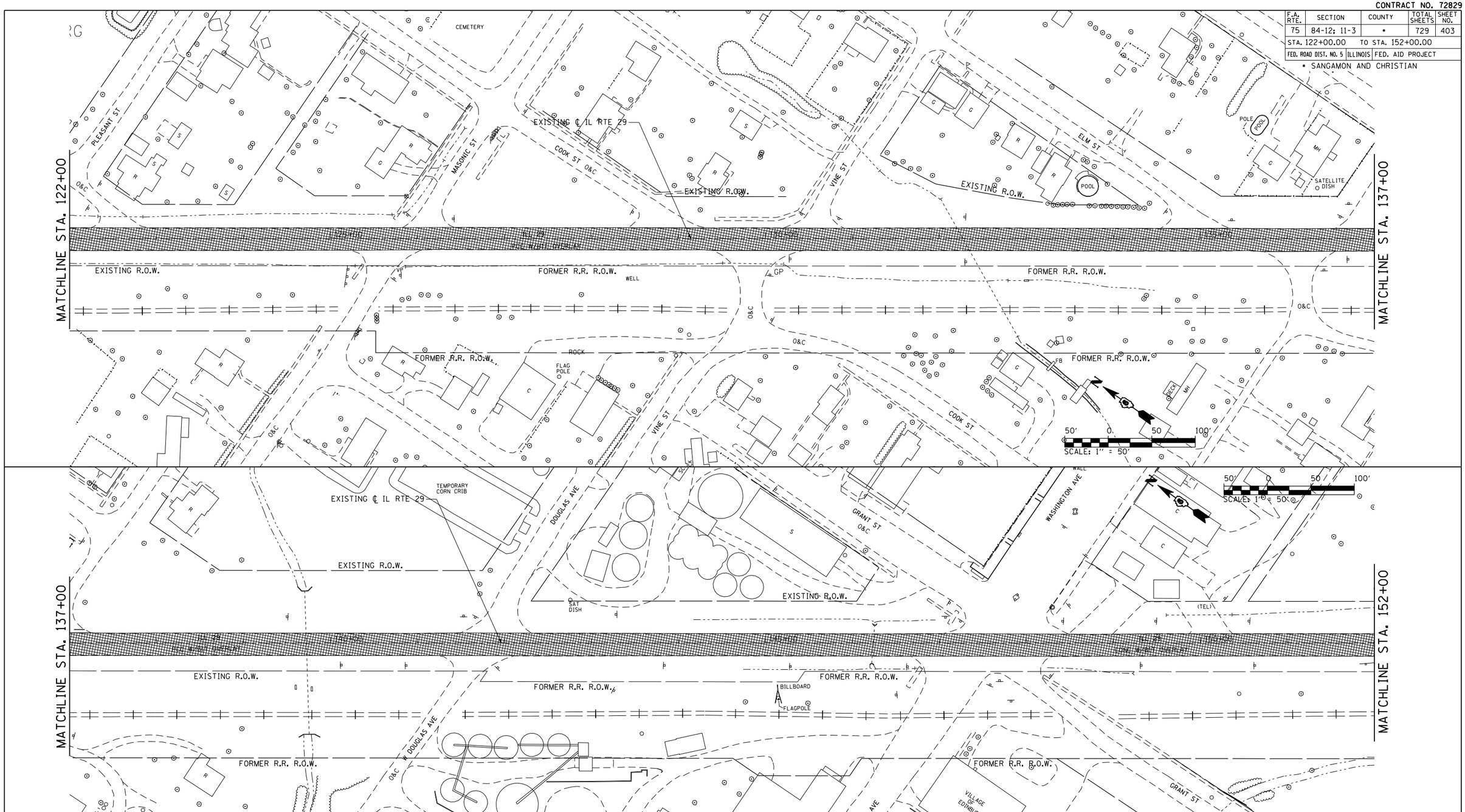
4/23/2012

REMOVAL PLAN: EXISTING IL RTE. 29

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	403
STA. 122+00.00		TO STA. 152+00.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



REMOVAL LEGEND

- ILLINOIS NATIVE PRARIE GRASS
- PAVEMENT REMOVAL
- PAVEMENT BREAKING IN ACCORDANCE WITH ARTICLE 205.03. COST INCLUDED IN EMBANKMENT.
- TREE REMOVAL ACRES
- X TREE REMOVAL (UNITS)
- EXISTING OIL & CHIP PAVEMENT TO BE REMOVED. COST INCLUDED IN EARTH EXCAVATION
- GRAVEL DRIVEWAY REMOVAL. COST INCLUDED IN EARTH EXCAVATION.
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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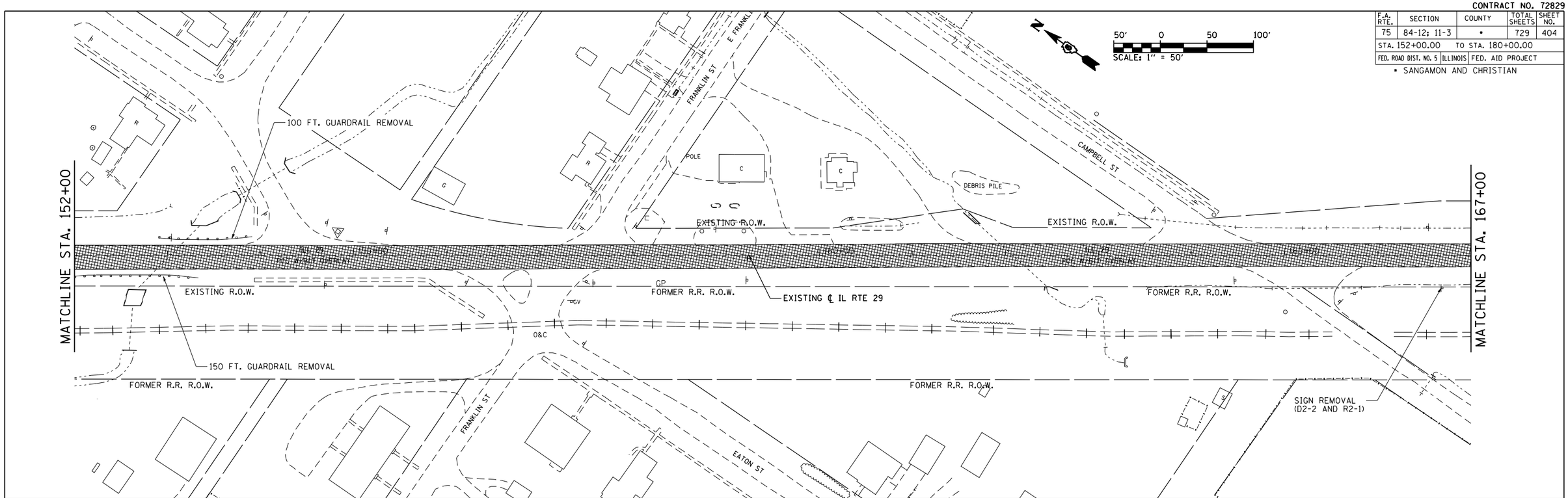
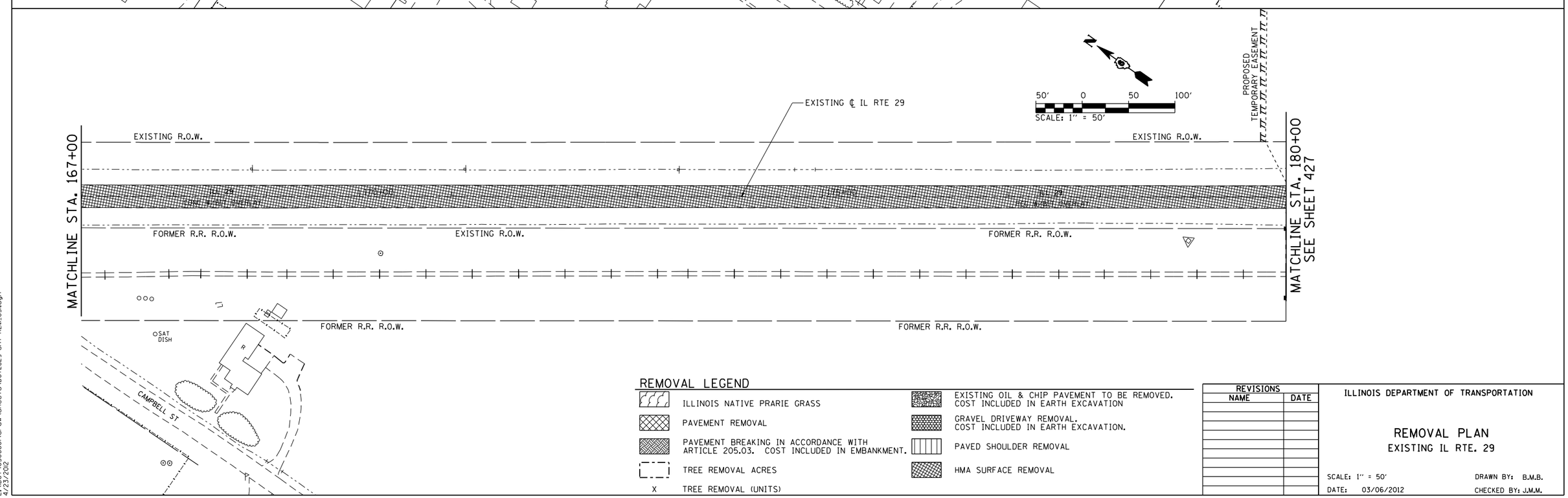
4/23/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	404
STA. 152+00.00		TO STA. 180+00.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN





REMOVAL LEGEND

- ILLINOIS NATIVE PRARIE GRASS
- PAVEMENT REMOVAL
- PAVEMENT BREAKING IN ACCORDANCE WITH ARTICLE 205.03. COST INCLUDED IN EMBANKMENT.
- TREE REMOVAL ACRES
- X TREE REMOVAL (UNITS)
- EXISTING OIL & CHIP PAVEMENT TO BE REMOVED. COST INCLUDED IN EARTH EXCAVATION
- GRAVEL DRIVEWAY REMOVAL. COST INCLUDED IN EARTH EXCAVATION.
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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4/23/2012

REMOVAL PLAN: EXISTING IL RTE. 29

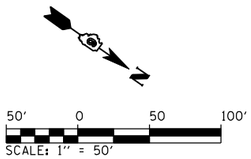
CONTRACT NO. 72829

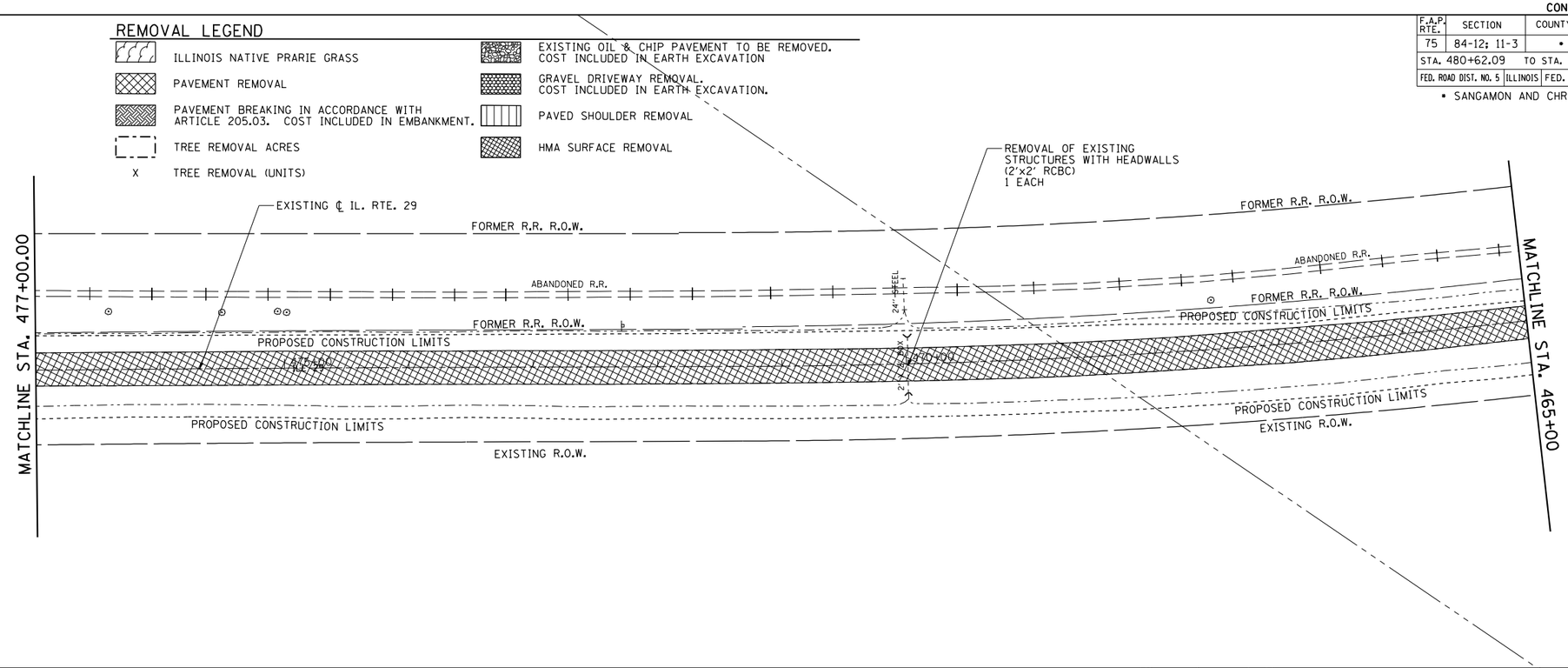
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	405
STA. 480+62.09		TO STA. 449+36.91		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

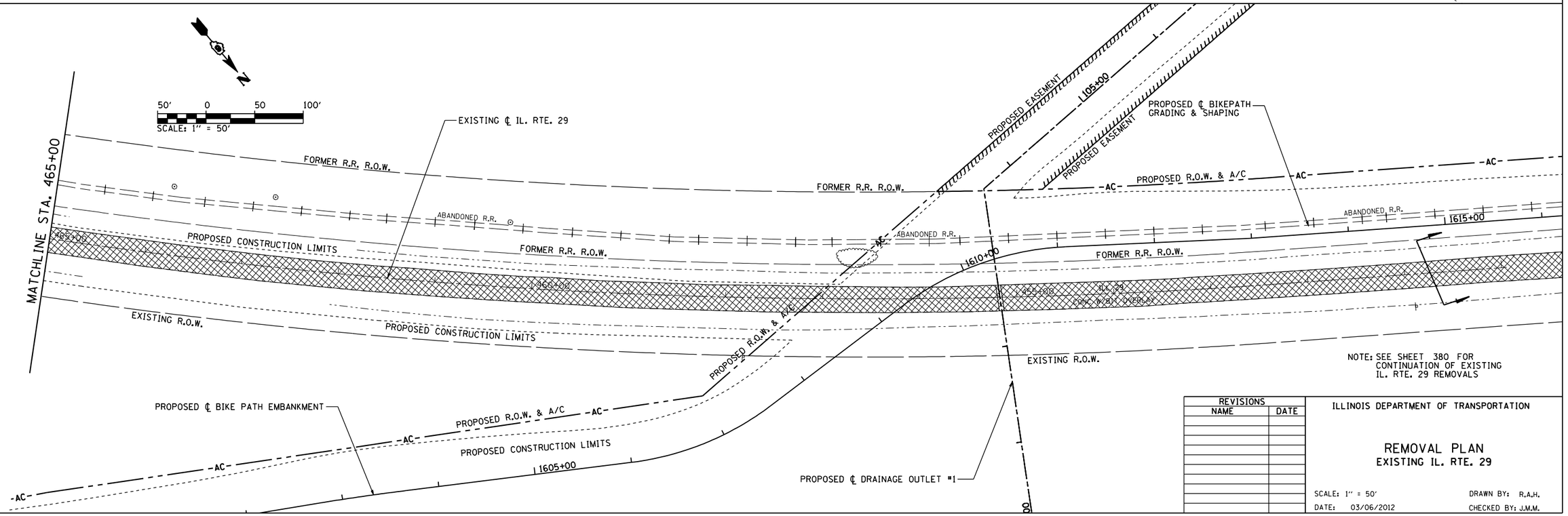
* SANGAMON AND CHRISTIAN

REMOVAL LEGEND

- ILLINOIS NATIVE PRARIE GRASS
- PAVEMENT REMOVAL
- PAVEMENT BREAKING IN ACCORDANCE WITH ARTICLE 205.03. COST INCLUDED IN EMBANKMENT.
- TREE REMOVAL ACRES
- X TREE REMOVAL (UNITS)
- EXISTING OIL & CHIP PAVEMENT TO BE REMOVED. COST INCLUDED IN EARTH EXCAVATION
- GRAVEL DRIVEWAY REMOVAL. COST INCLUDED IN EARTH EXCAVATION.
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL







NOTE: SEE SHEET 380 FOR CONTINUATION OF EXISTING IL. RTE. 29 REMOVALS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
EXISTING IL. RTE. 29

SCALE: 1″ = 50′ DRAWN BY: R.A.H.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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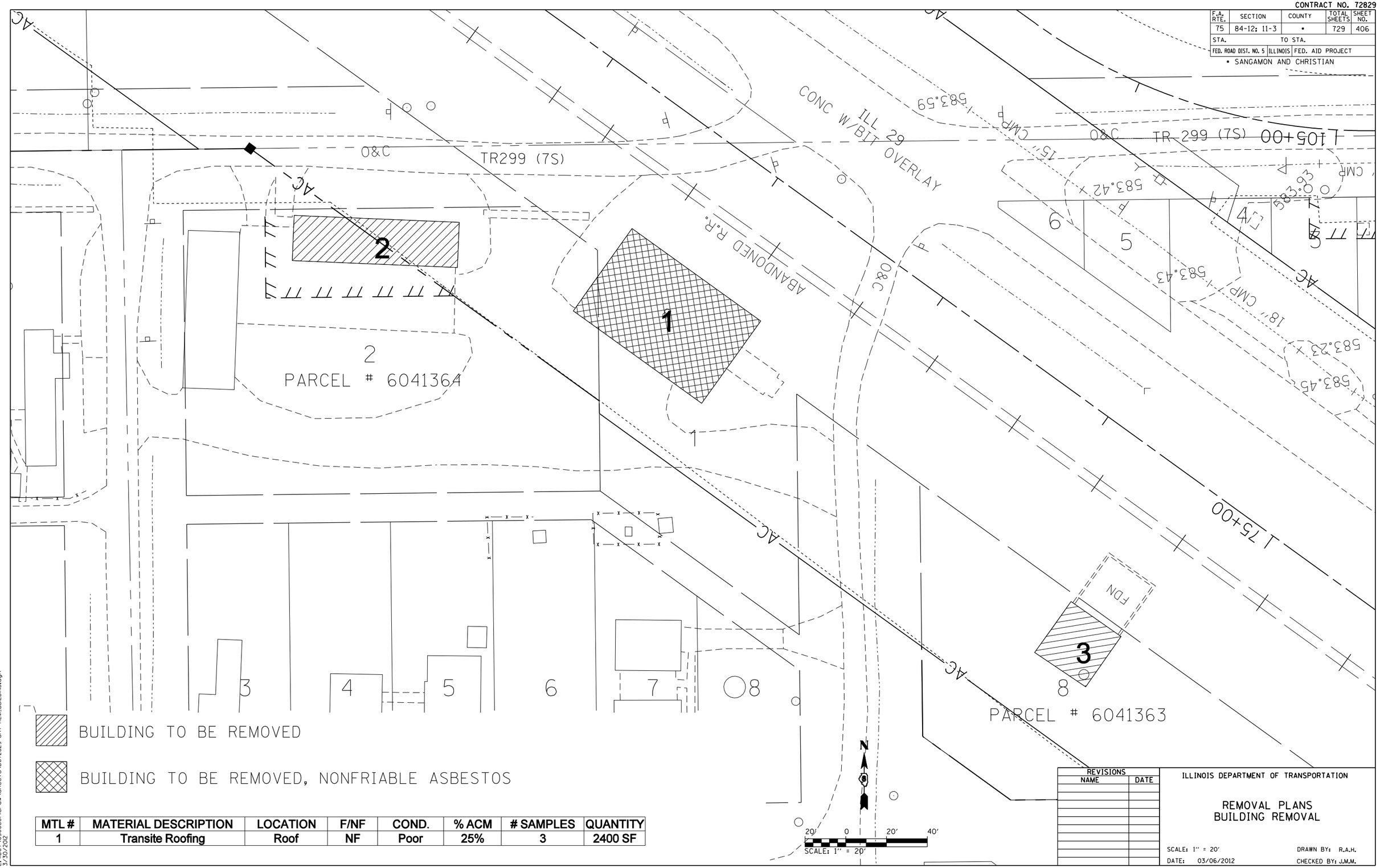
4/23/2012

REMOVAL PLAN: EXISTING IL. RTE. 29 – STA. 480+62.09 TO STA. 449+36.91

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	406
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



MTL #	MATERIAL DESCRIPTION	LOCATION	F/NF	COND.	% ACM	# SAMPLES	QUANTITY
1	Transite Roofing	Roof	NF	Poor	25%	3	2400 SF

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS
BUILDING REMOVAL

SCALE: 1" = 20'
DRAWN BY: R.A.H.
DATE: 03/06/2012
CHECKED BY: J.M.M.

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3/30/2012

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	407
STA. 1388+00		TO STA. 1403+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

GENERAL NOTES:

1.) THE CONTRACTOR SHALL COORDINATE ALL EXISTING SIGNAGE WITH PROPOSED MAINTENANCE OF TRAFFIC ACTIVITIES. THE TEMPORARY REMOVAL AND/OR COVERING OF CONFLICTING SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC PAY ITEMS.

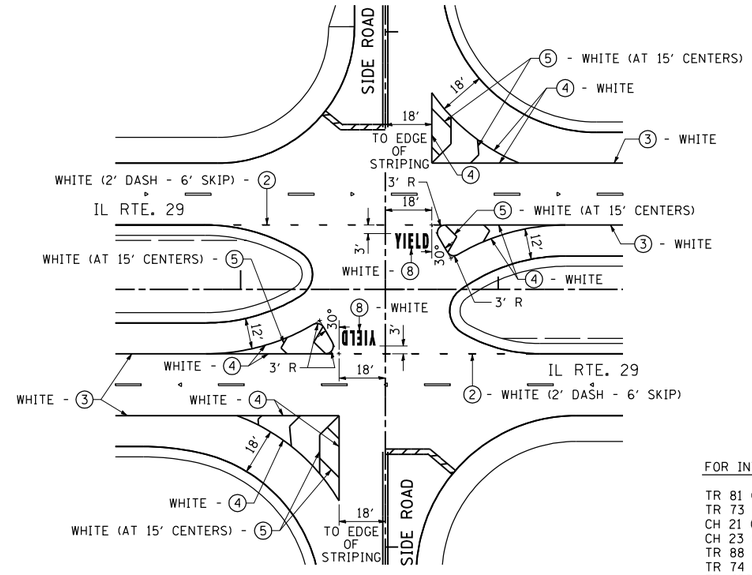
2.) ALL EXISTING SIGN PANELS NOT USED FOR PERMANENT SIGNAGE SHALL BE EITHER RETURNED TO THE DISTRICT SIGN SHOP AS REQUIRED BY THE ENGINEER OR DISPOSED OF AS DIRECTED BY THE ENGINEER.

3.) ALL SIGN PANEL REMOVAL, REPLACEMENT, AND RELOCATION SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF SECTION 724.

LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
8. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS (SMALL SIZE)

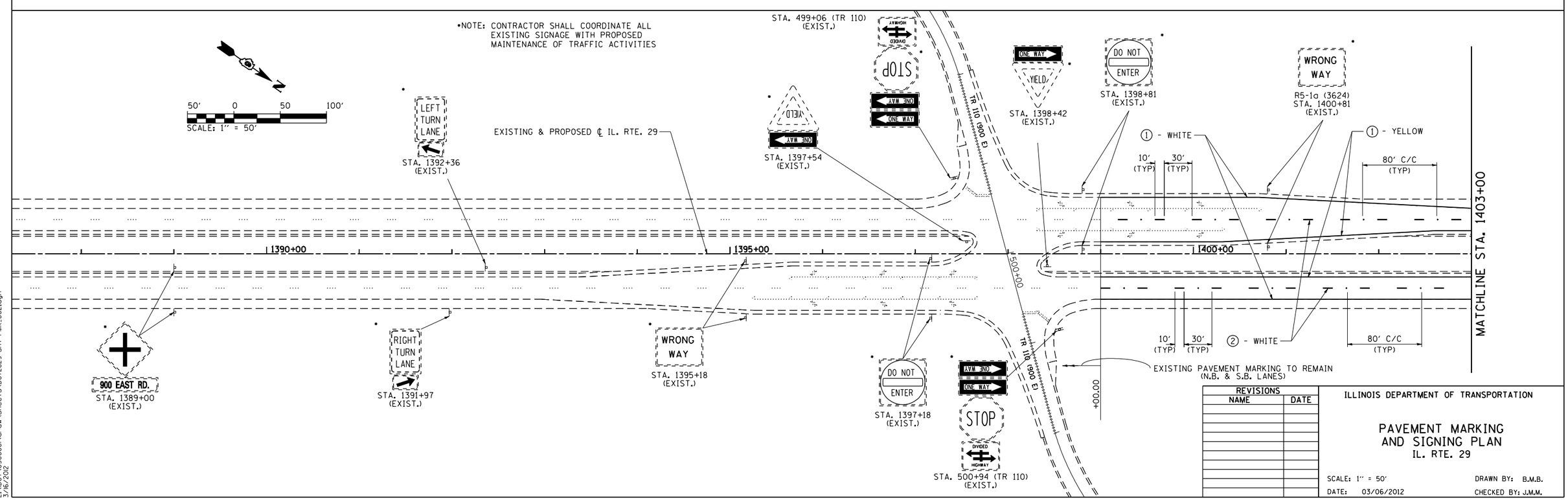
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST



INTERSECTION ISLAND PAVEMENT MARKING DETAIL

FOR INTERSECTIONS AT IL RTE. 29 AND:

TR 81 (2000N)
TR 73 (2050N)
CH 21 (2100N)
CH 23 (800E)
TR 88 (725E)
TR 74 (625E) / TR 63 (2300N)
TR 486 / TR 321 (PASSFIELD RD.)
TR 299 (7S) (ELM ST./BRECKENRIDGE RD.)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/6/2012

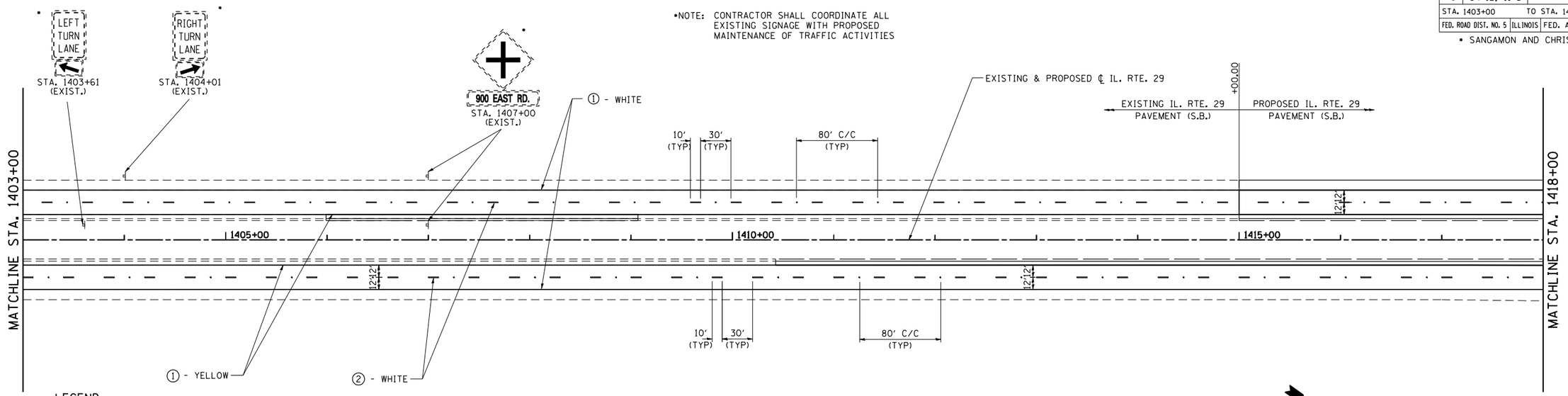
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1388+00 TO STA. 1403+00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	408
STA. 1403+00		TO STA. 1433+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

•NOTE: CONTRACTOR SHALL COORDINATE ALL EXISTING SIGNAGE WITH PROPOSED MAINTENANCE OF TRAFFIC ACTIVITIES

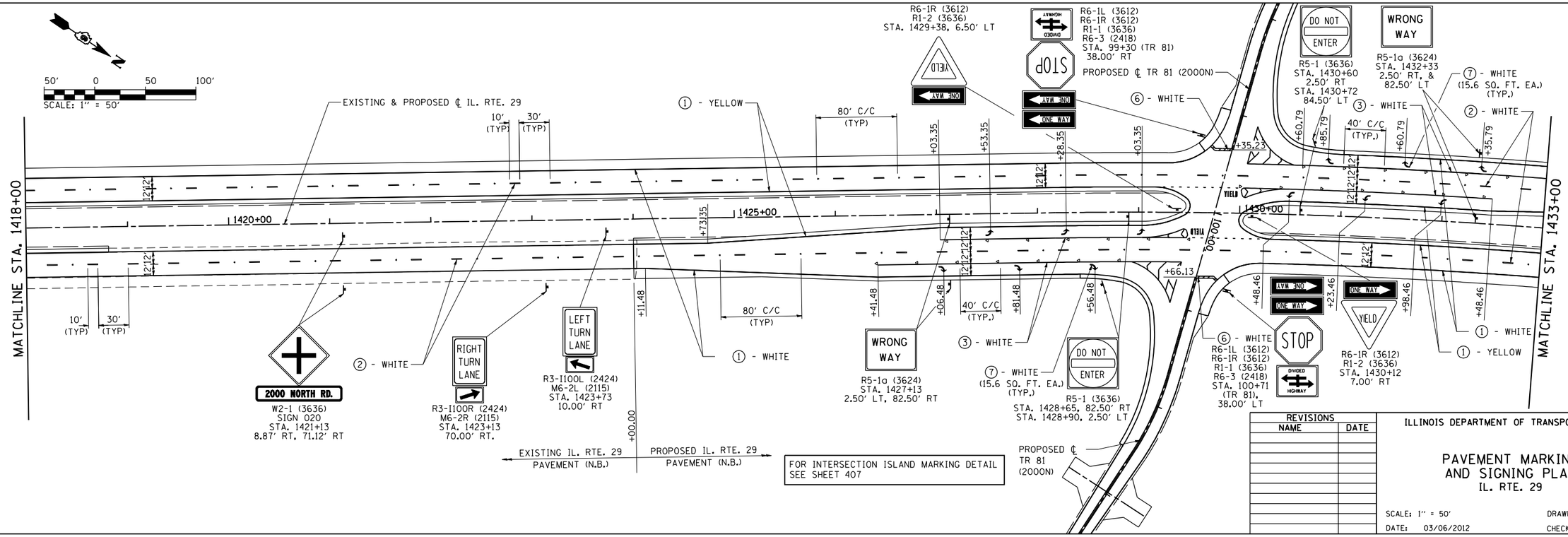


LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◀ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

50' 0 50 100'
SCALE: 1" = 50'



FOR INTERSECTION ISLAND MARKING DETAIL SEE SHEET 407

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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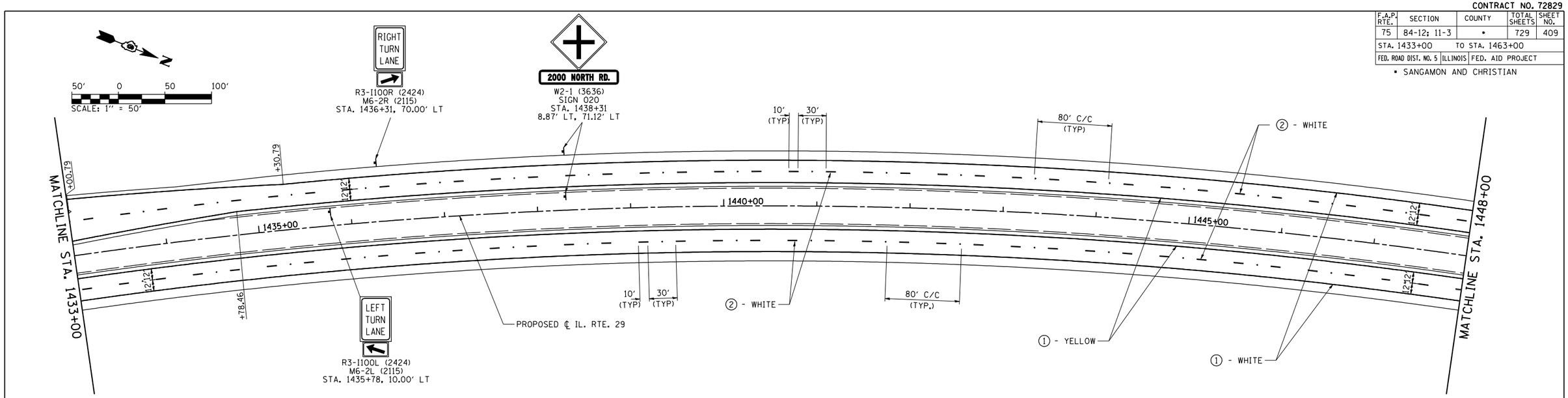
3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1403+00 TO STA. 1433+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	409
STA. 1433+00		TO STA. 1463+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

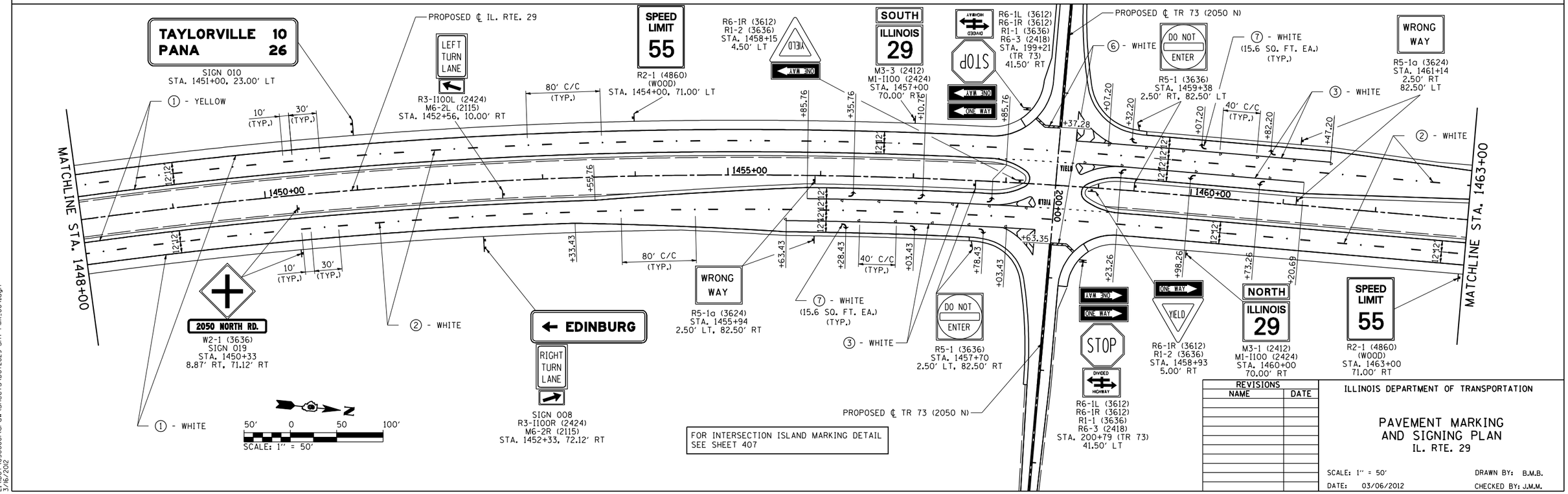
* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



FOR INTERSECTION ISLAND MARKING DETAIL SEE SHEET 407

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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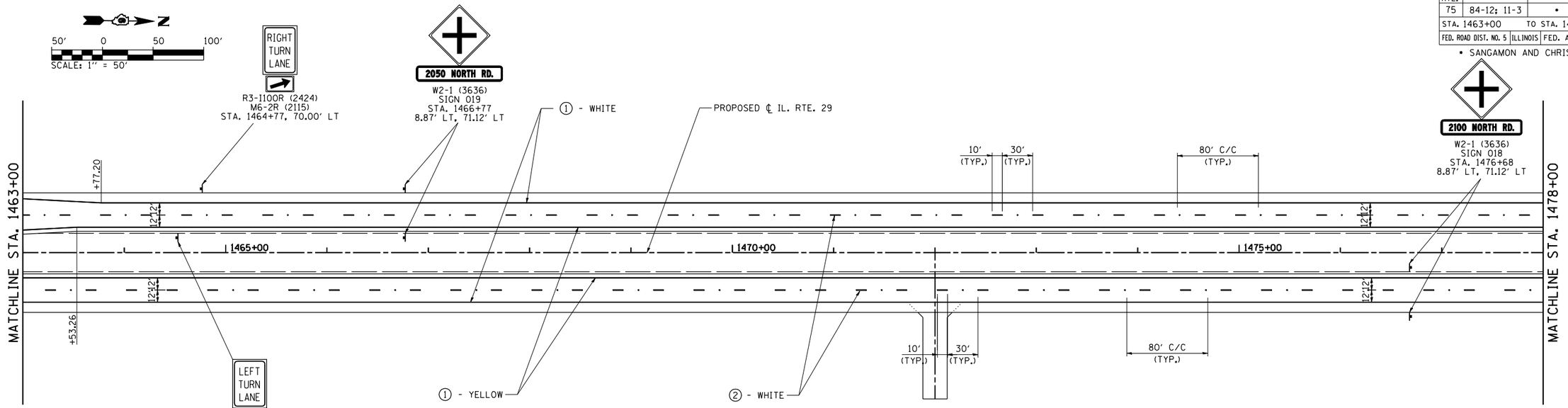
3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1433+00 TO STA. 1463+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	410
STA. 1463+00		TO STA. 1493+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

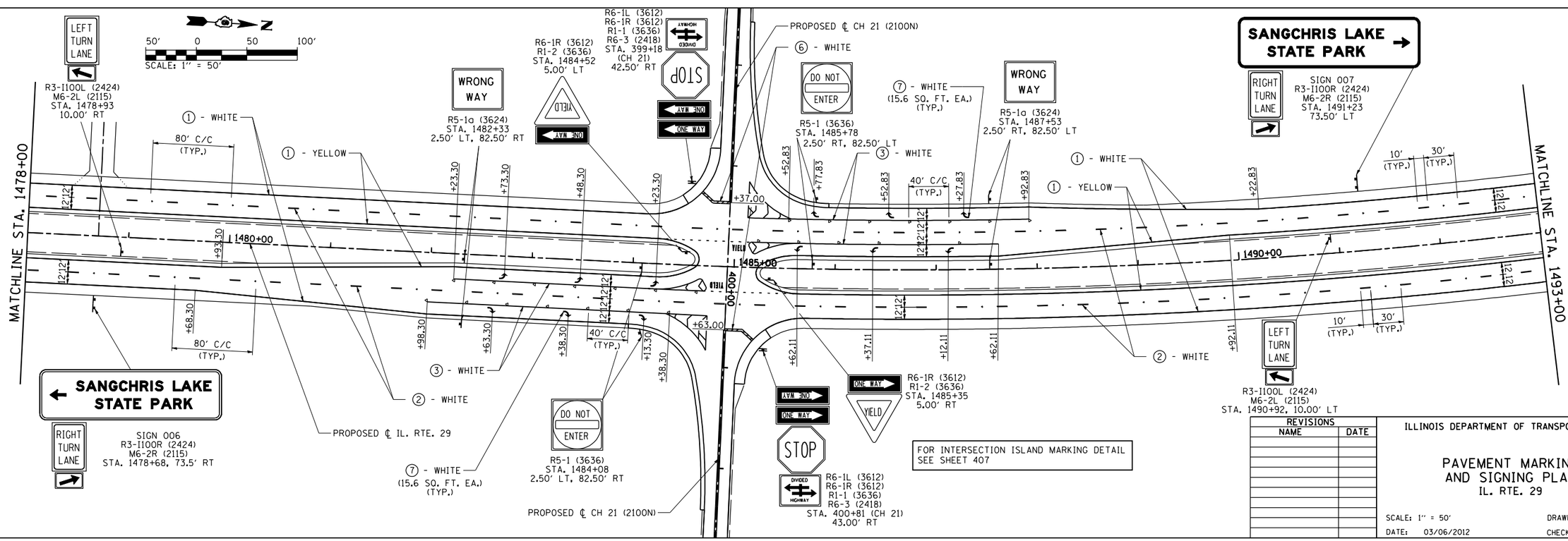
* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◄► RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



FOR INTERSECTION ISLAND MARKING DETAIL SEE SHEET 407

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1463+00 TO STA. 1493+00

CONTRACT NO. 72829

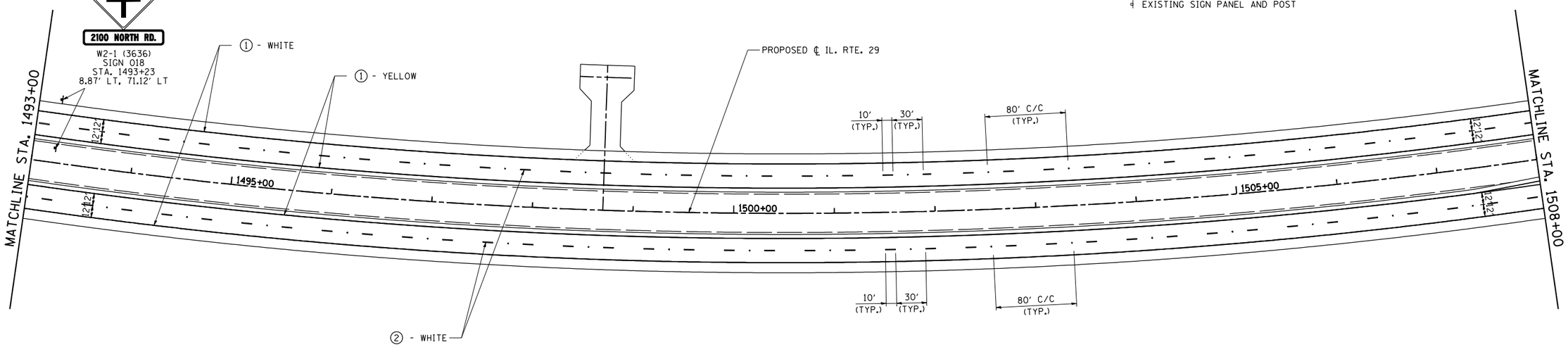
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	411
STA. 1493+00		TO STA. 1523+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

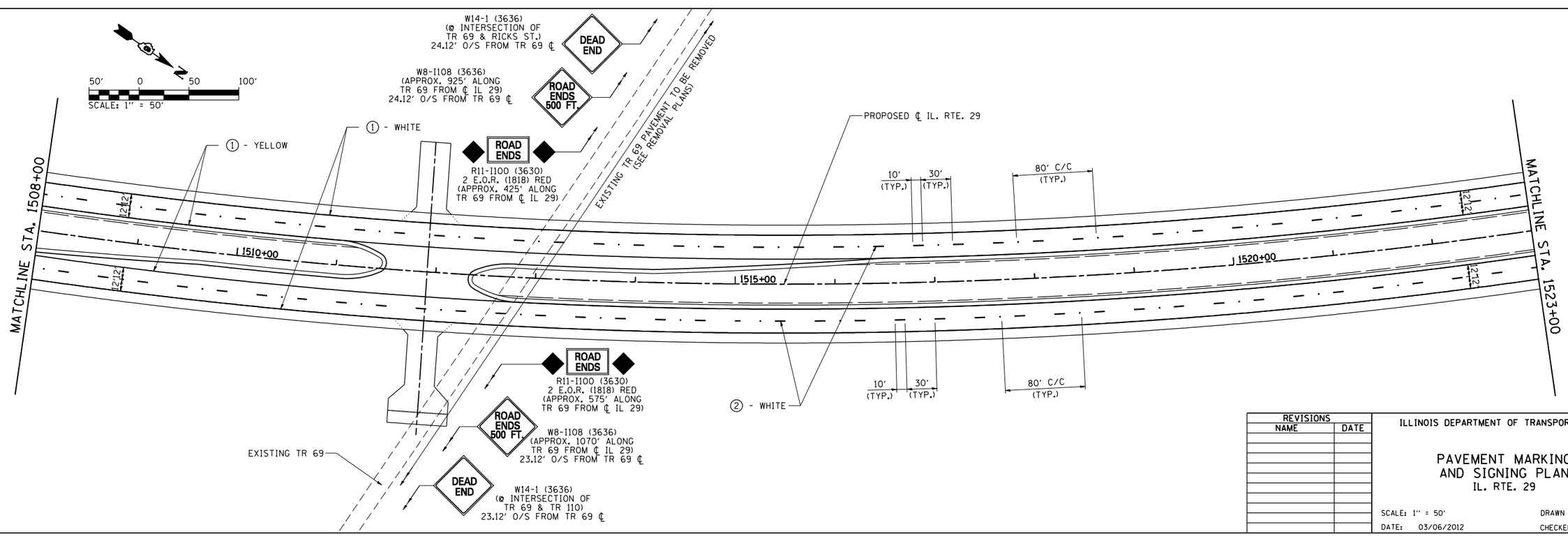
* SANGAMON AND CHRISTIAN

LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.

DATE: 03/06/2012 CHECKED BY: J.M.M.

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4/20/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1493+00 TO STA. 1523+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	412
STA. 1523+00		TO STA. 1553+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

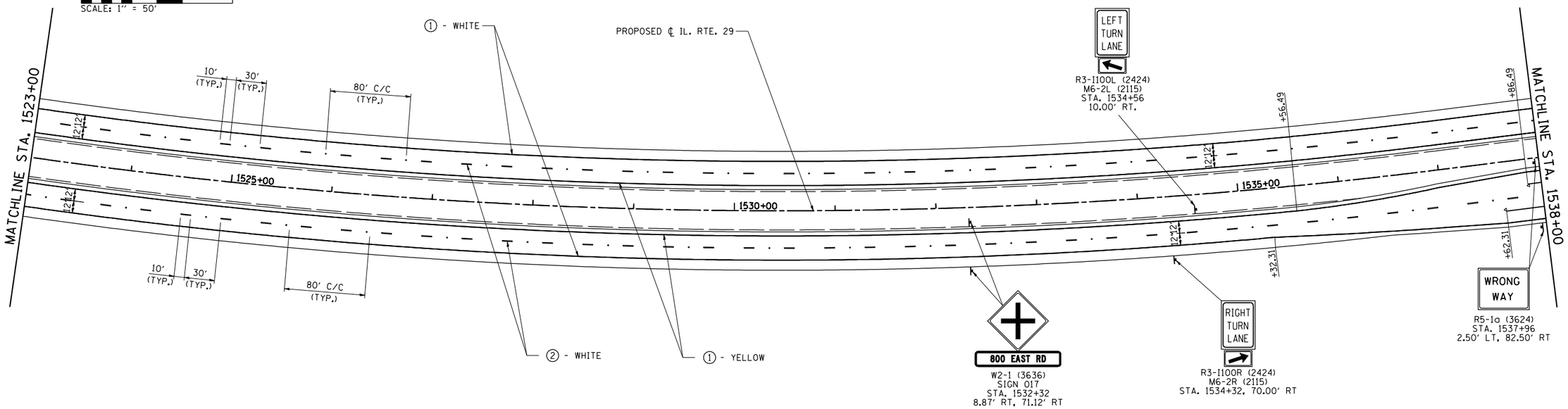
LEGEND

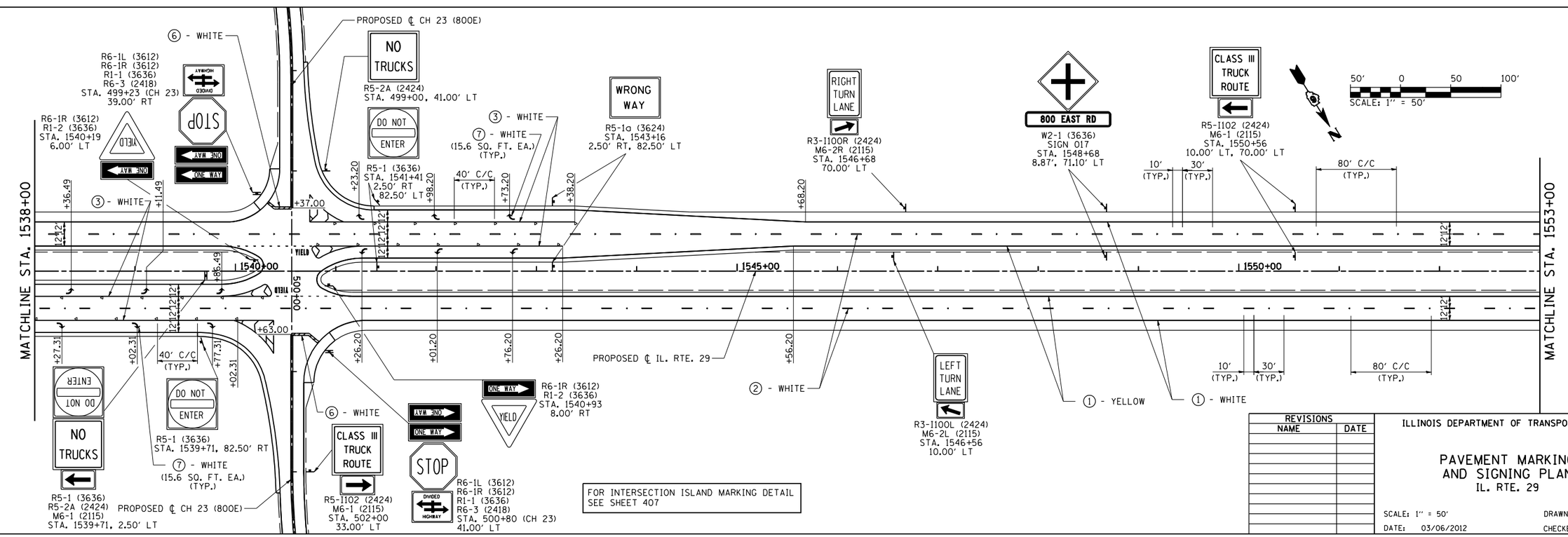
1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST

N

50' 0 50 100'
SCALE: 1" = 50'





FOR INTERSECTION ISLAND MARKING DETAIL SEE SHEET 407

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

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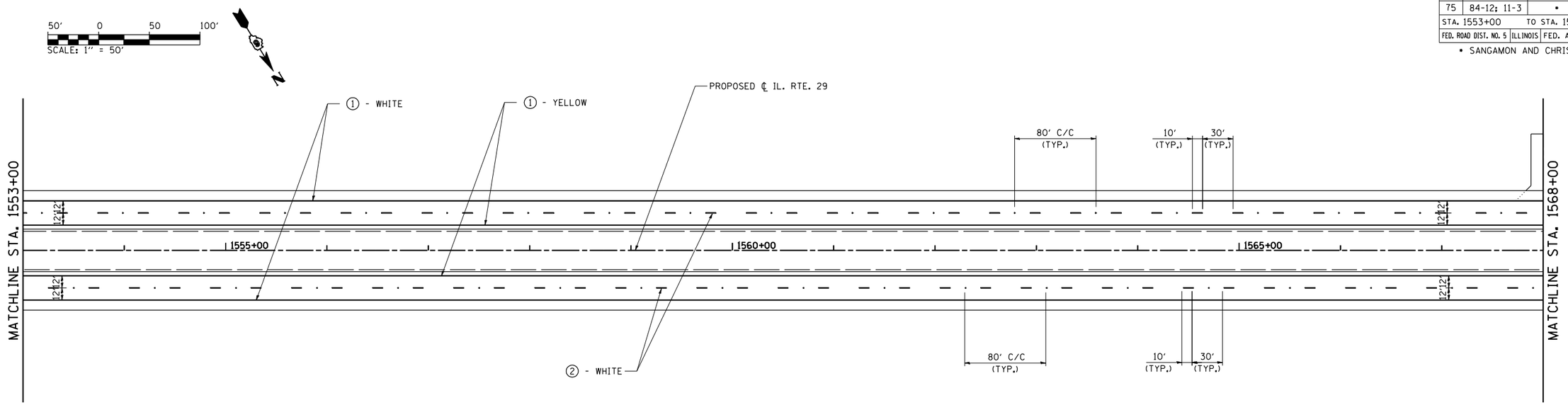
3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1523+00 TO STA. 1553+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	413
STA. 1553+00		TO STA. 1583+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

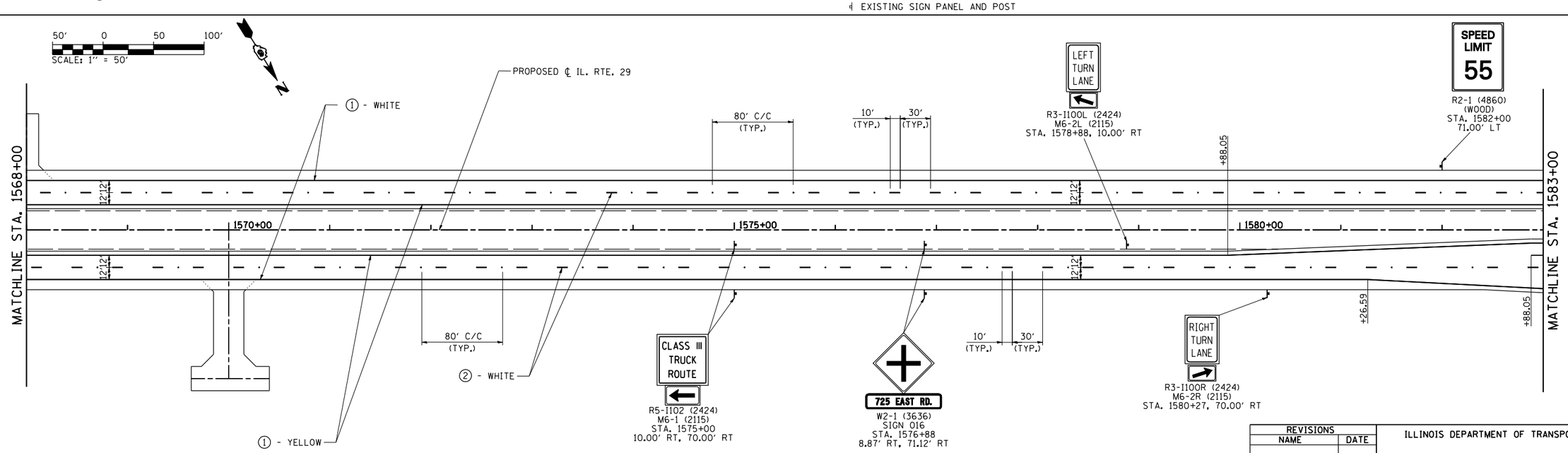
* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◄► RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

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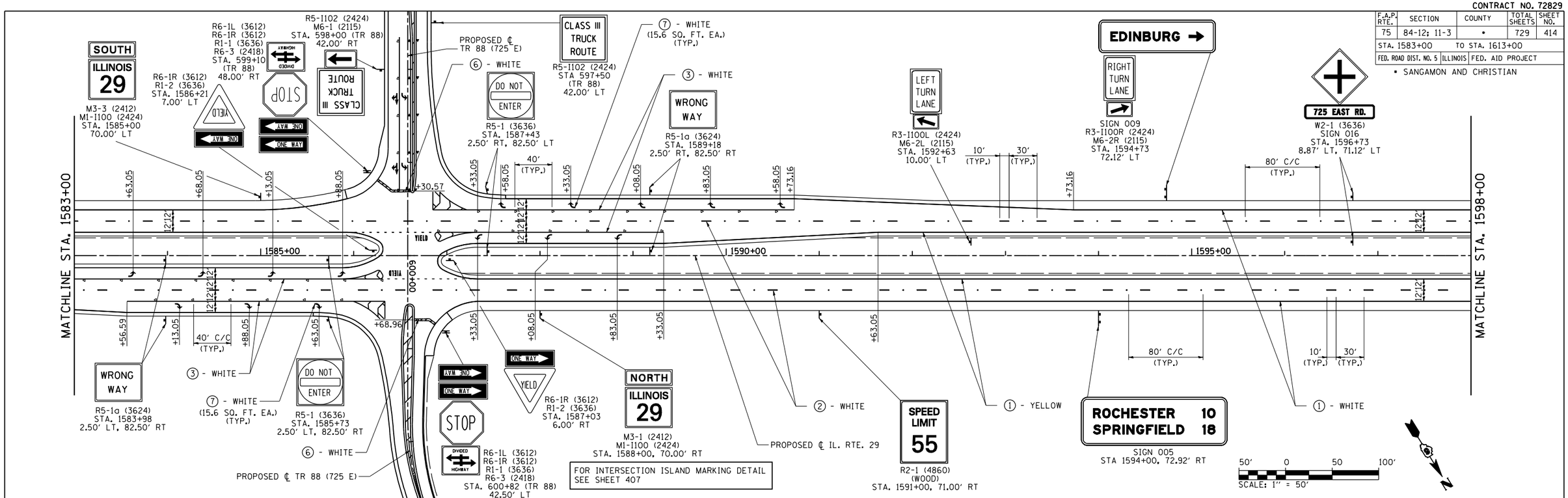
3/16/2012

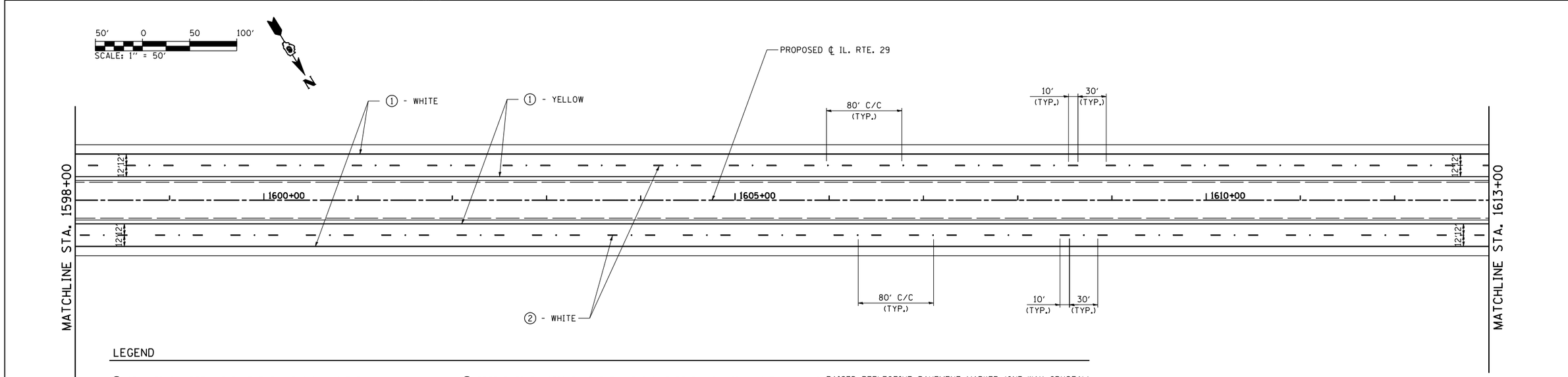
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1553+00 TO STA. 1583+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	414
STA. 1583+00		TO STA. 1613+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN





LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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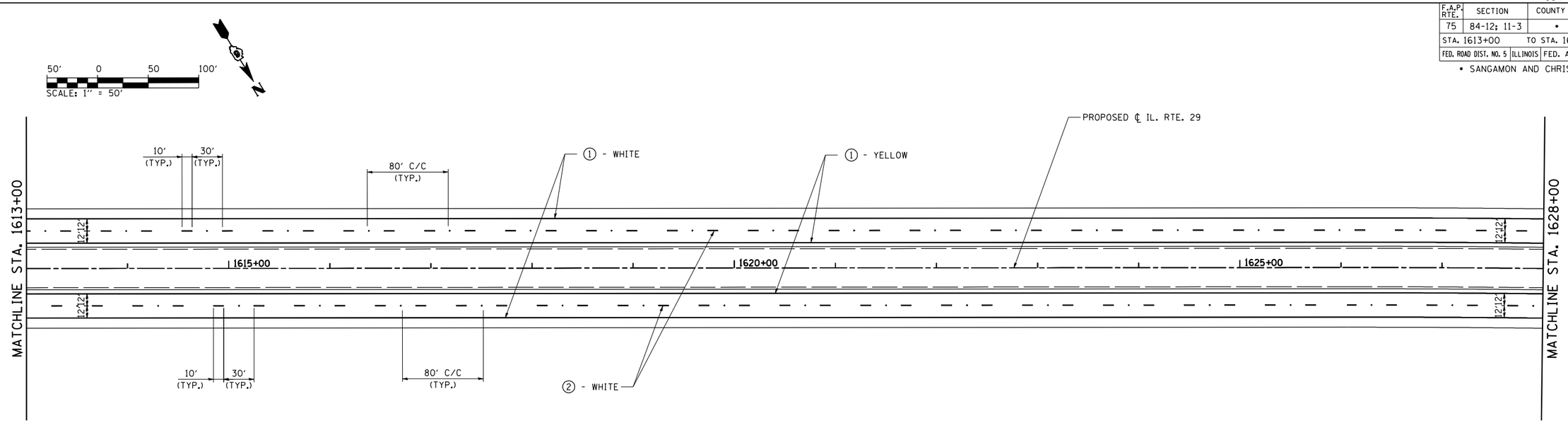
3/16/2012

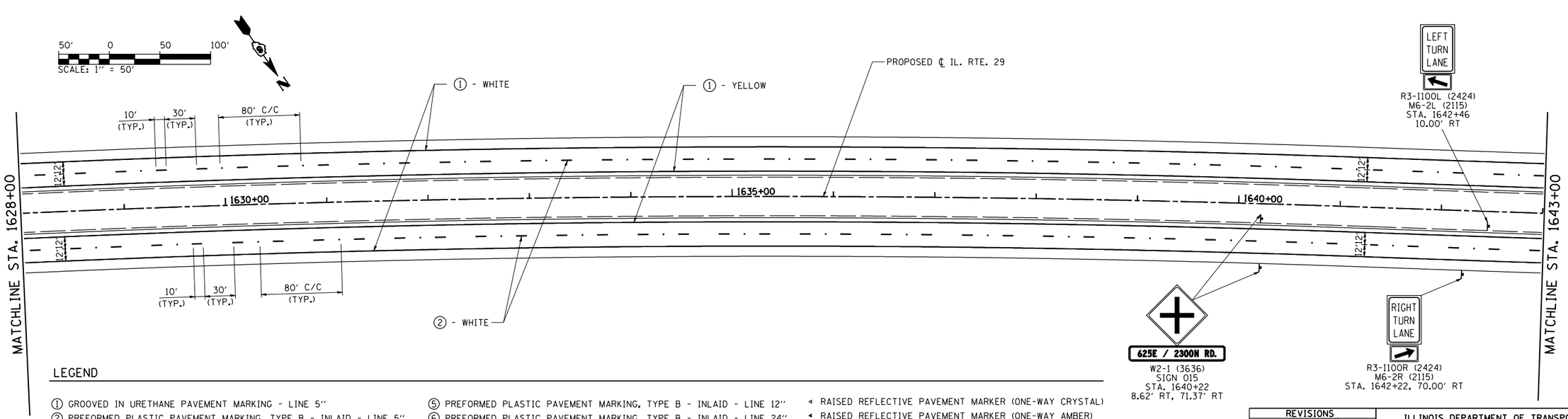
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1583+00 TO STA. 1613+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	415
STA. 1613+00		TO STA. 1643+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN





LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◄► RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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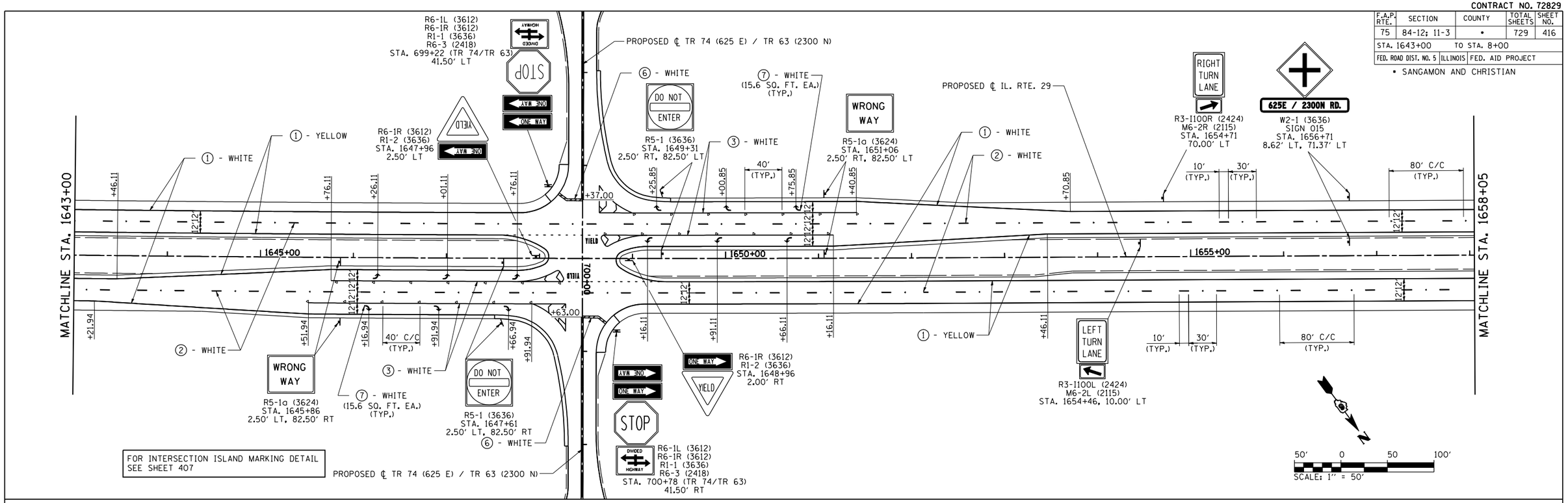
3/16/2012

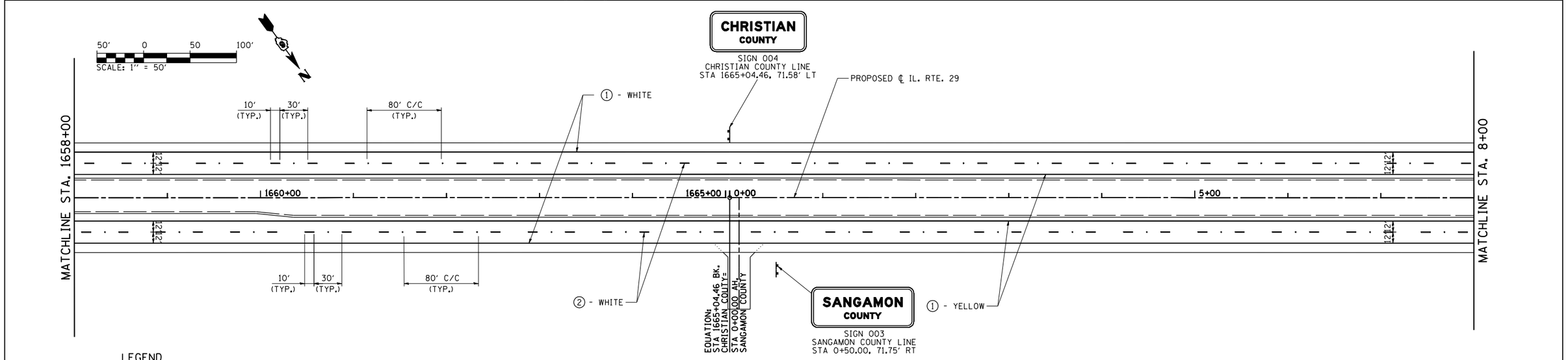
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1613+00 TO STA. 1643+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	416
STA. 1643+00		TO STA. 8+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN





LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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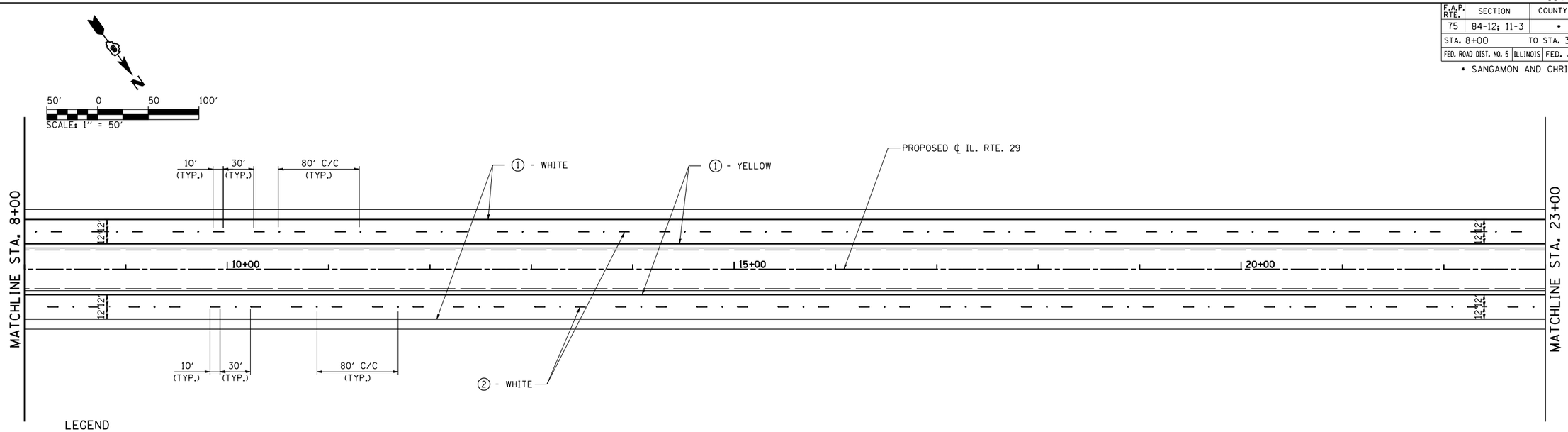
4/23/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 1643+00 TO STA. 8+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	417
STA. 8+00		TO STA. 38+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
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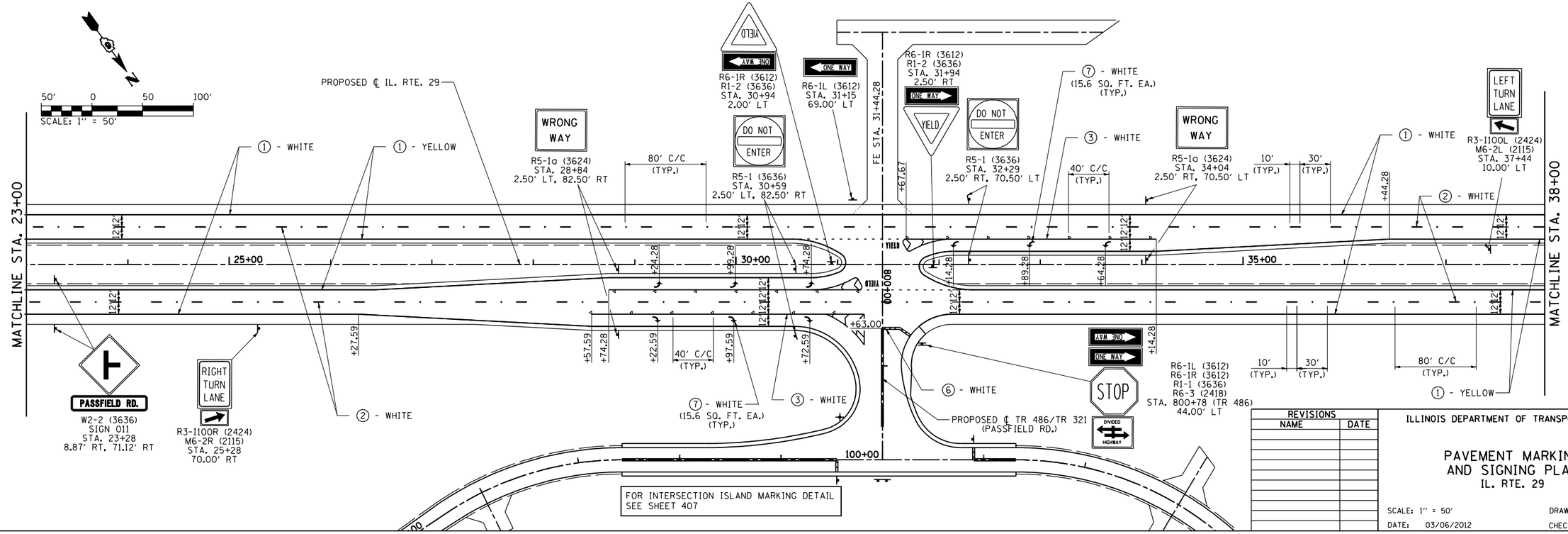
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



FOR INTERSECTION ISLAND MARKING DETAIL SEE SHEET 407

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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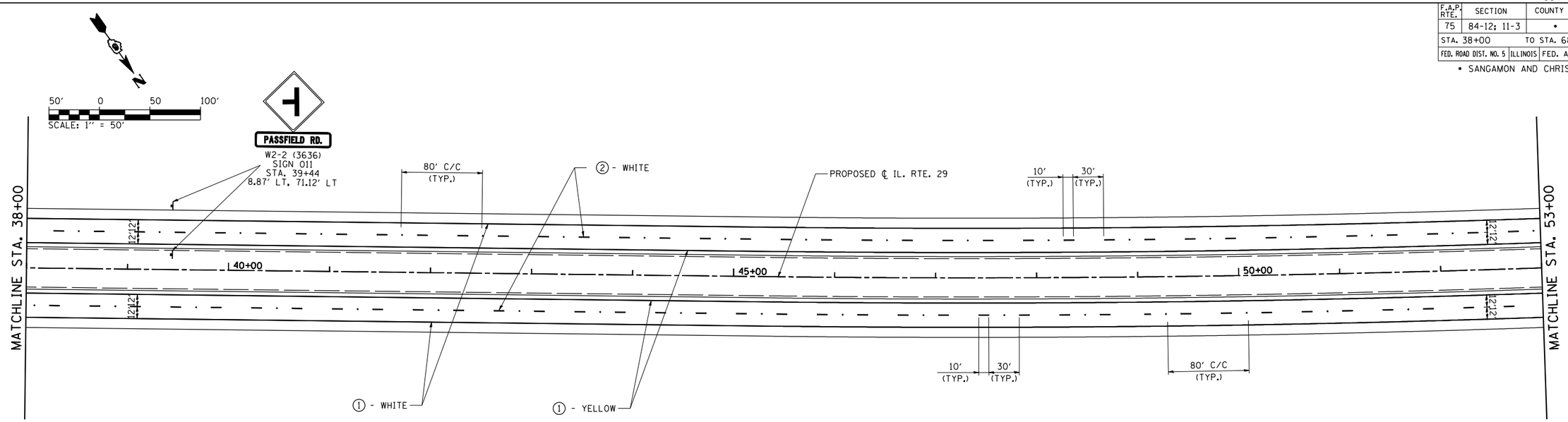
4/23/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 8+00 TO STA. 38+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	418
STA. 38+00		TO STA. 68+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
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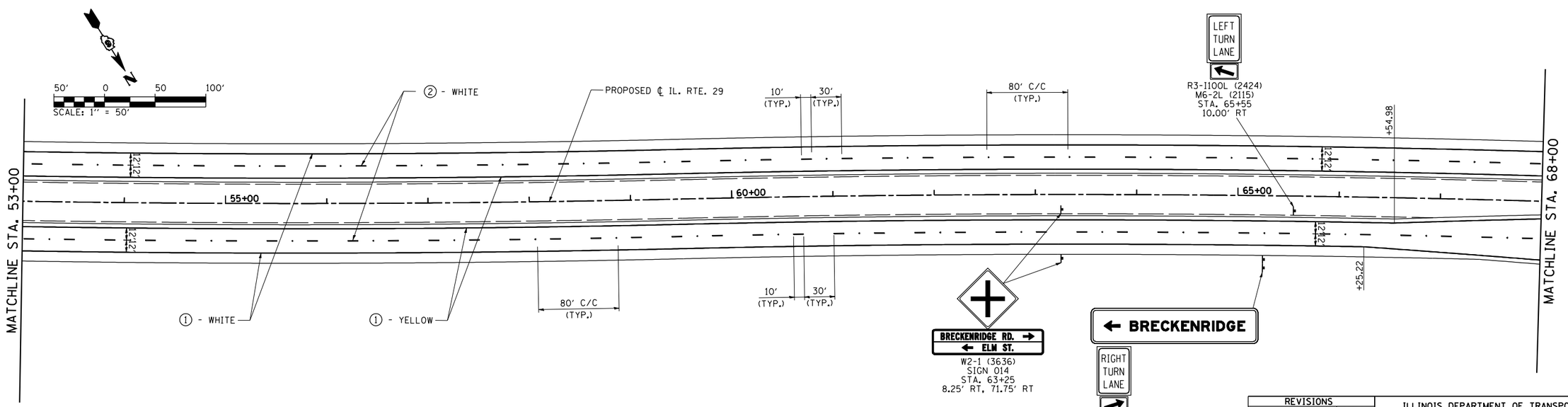
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◂▸ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
IL. RTE. 29

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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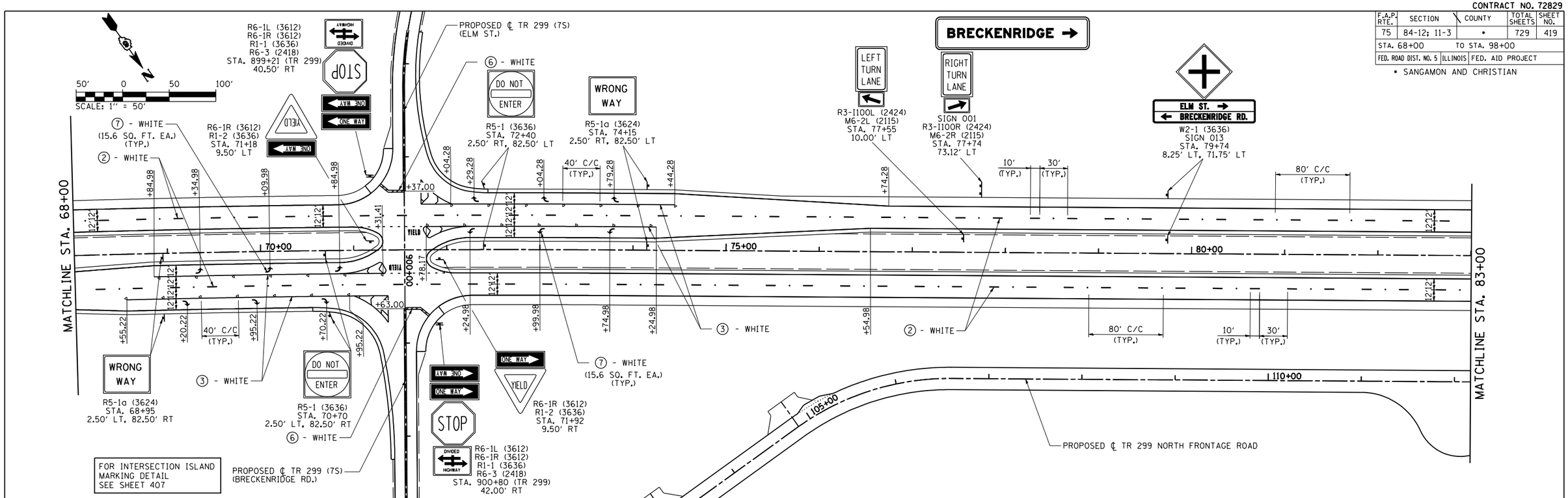
3/16/2012

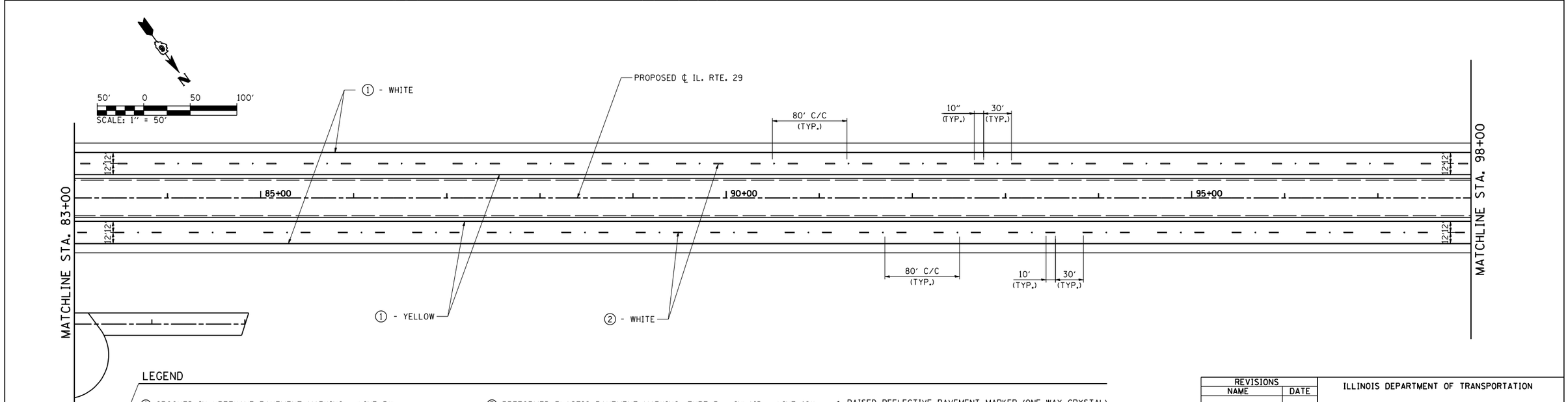
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 38+00 TO STA. 68+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	419
STA. 68+00	TO STA. 98+00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN





LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

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3/16/2012

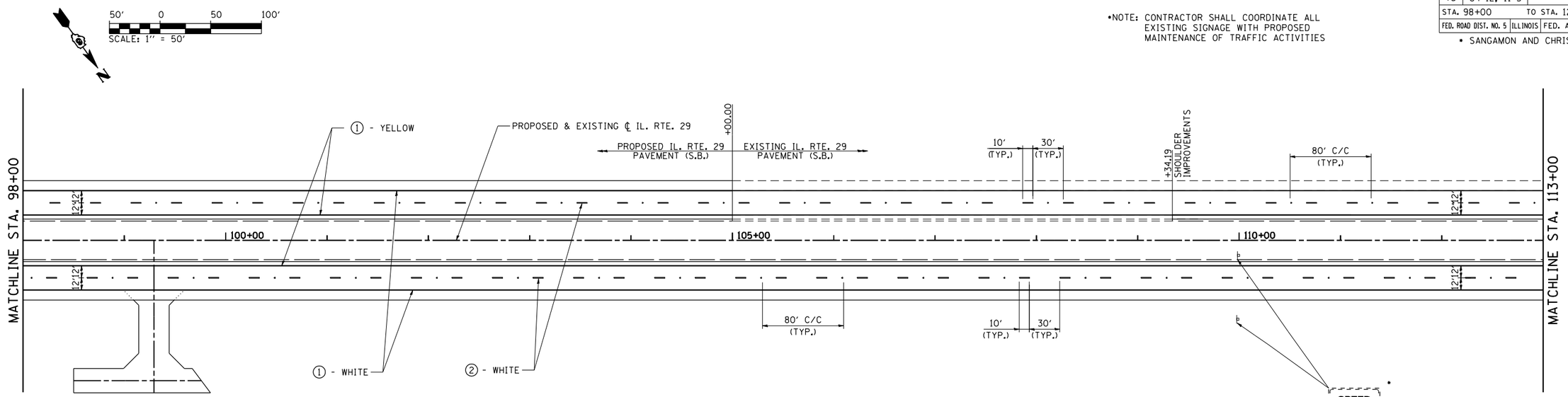
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 68+00 TO STA. 98+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	420
STA. 98+00		TO STA. 128+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

*NOTE: CONTRACTOR SHALL COORDINATE ALL EXISTING SIGNAGE WITH PROPOSED MAINTENANCE OF TRAFFIC ACTIVITIES



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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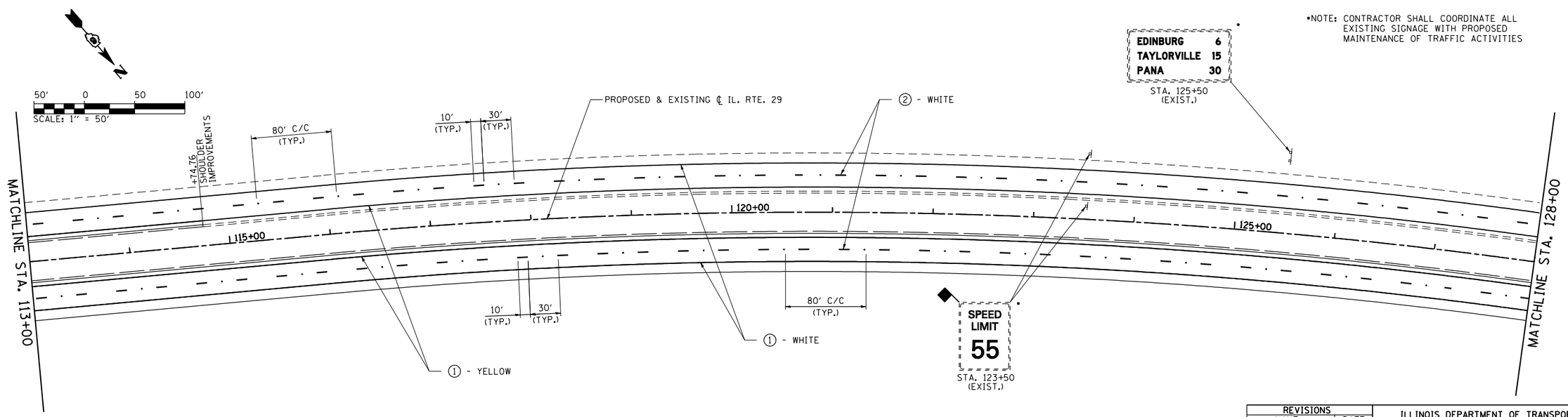
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◄► RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

*NOTE: CONTRACTOR SHALL COORDINATE ALL EXISTING SIGNAGE WITH PROPOSED MAINTENANCE OF TRAFFIC ACTIVITIES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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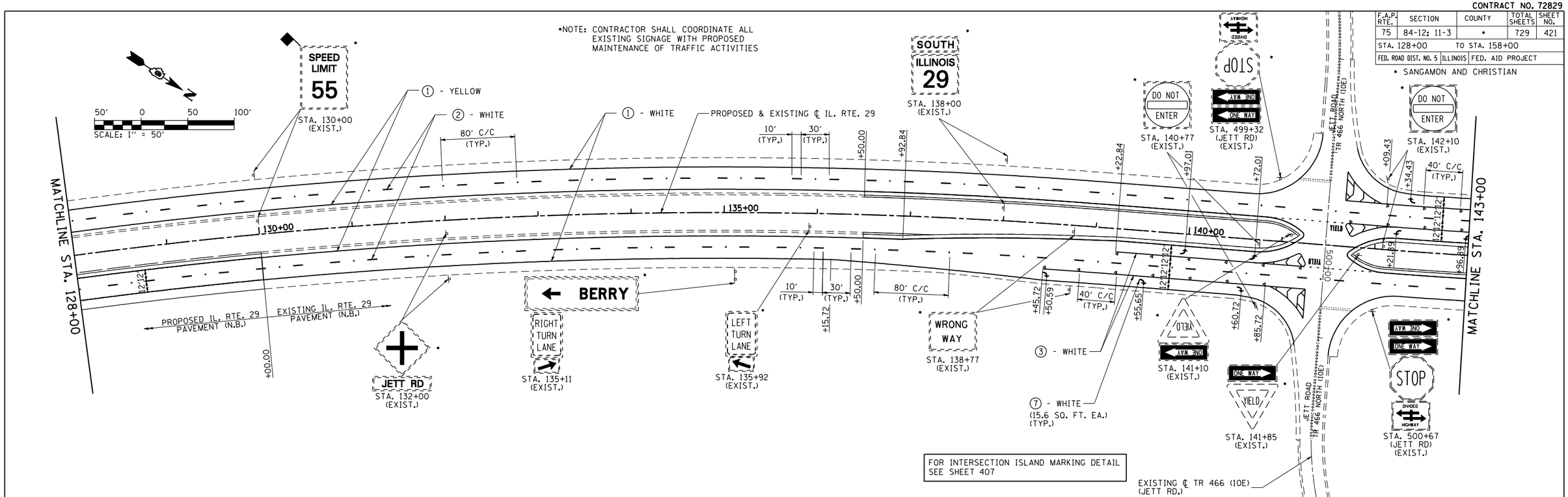
3/16/2012

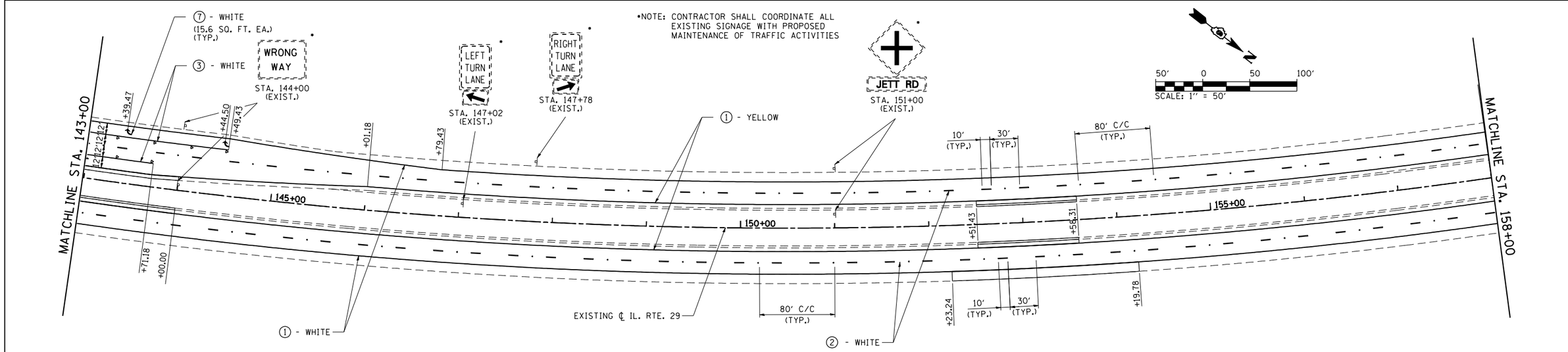
PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 98+00 TO STA. 128+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	421
STA. 128+00		TO STA. 158+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN





LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
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◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 128+00 TO STA. 158+00

Default
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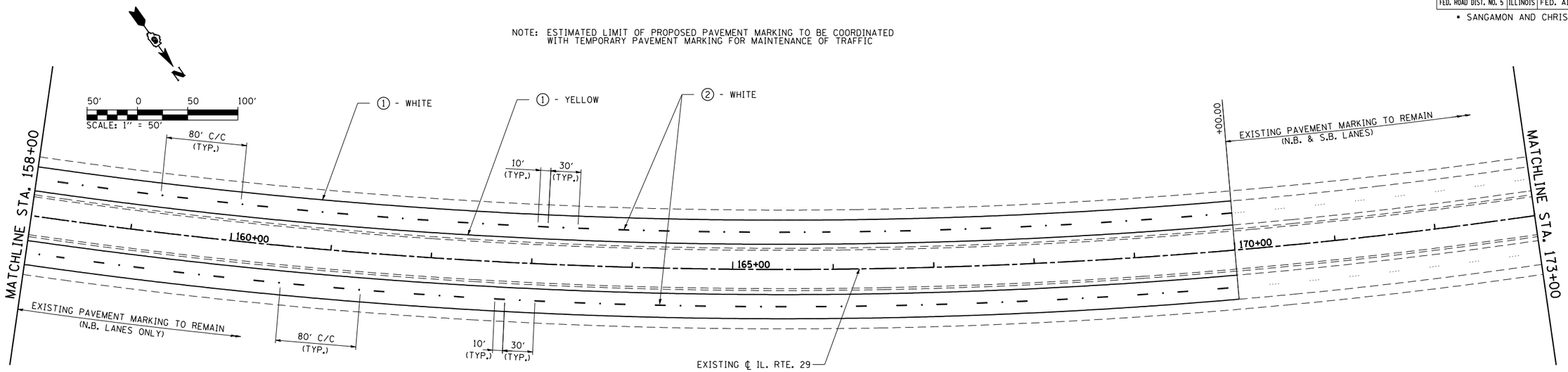
3/16/2012

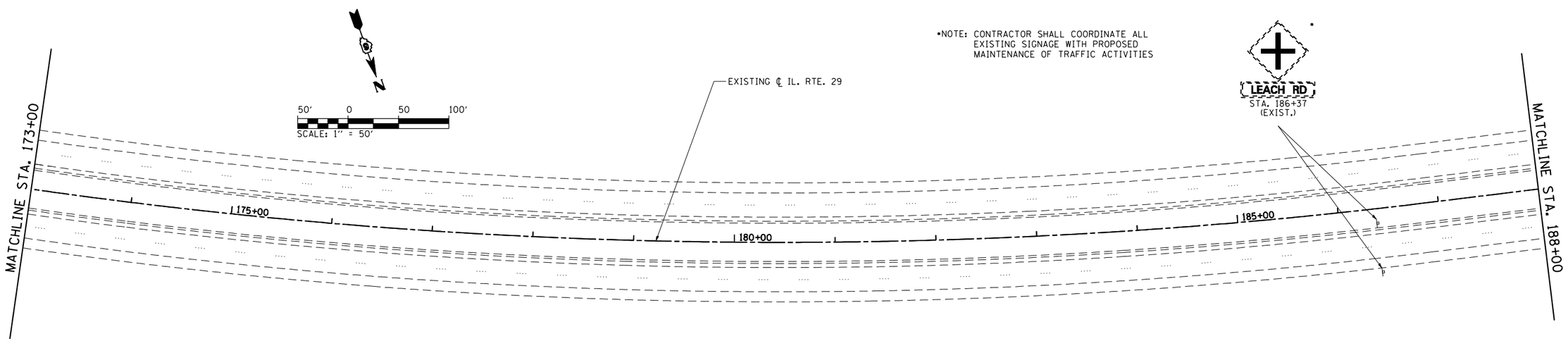
CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	422
STA. 158+00		TO STA. 188+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

NOTE: ESTIMATED LIMIT OF PROPOSED PAVEMENT MARKING TO BE COORDINATED WITH TEMPORARY PAVEMENT MARKING FOR MAINTENANCE OF TRAFFIC





*NOTE: CONTRACTOR SHALL COORDINATE ALL EXISTING SIGNAGE WITH PROPOSED MAINTENANCE OF TRAFFIC ACTIVITIES

LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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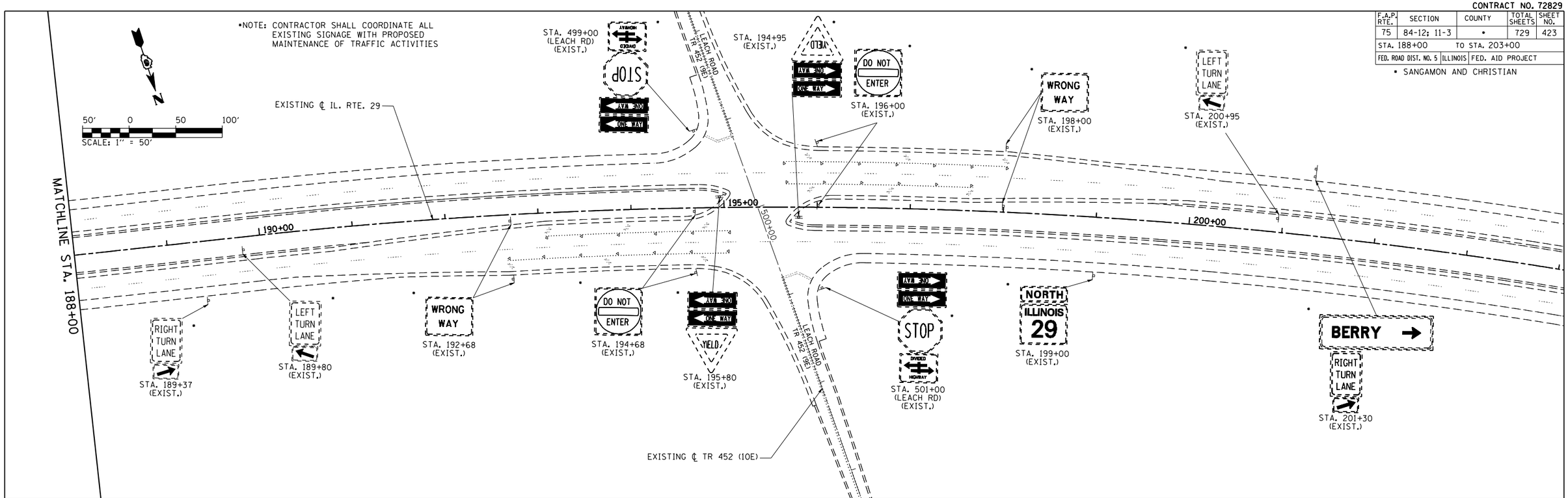
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 158+00 TO STA. 188+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	423
STA. 188+00		TO STA. 203+00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL. RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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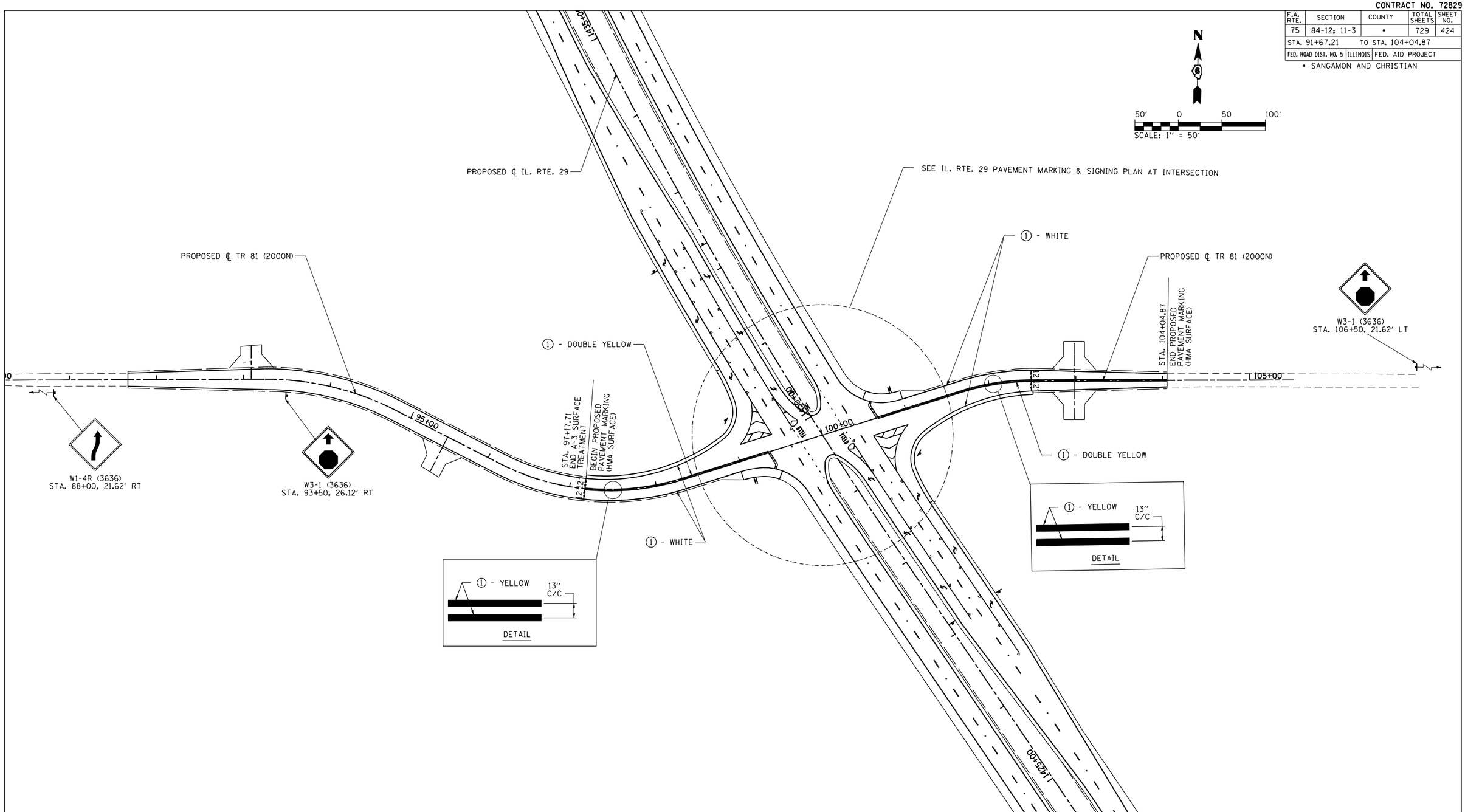
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: IL. RTE. 29 – STA. 188+00 TO STA. 203+00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	424
STA. 91+67.21		TO STA. 104+04.87		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 81 (2000 N)

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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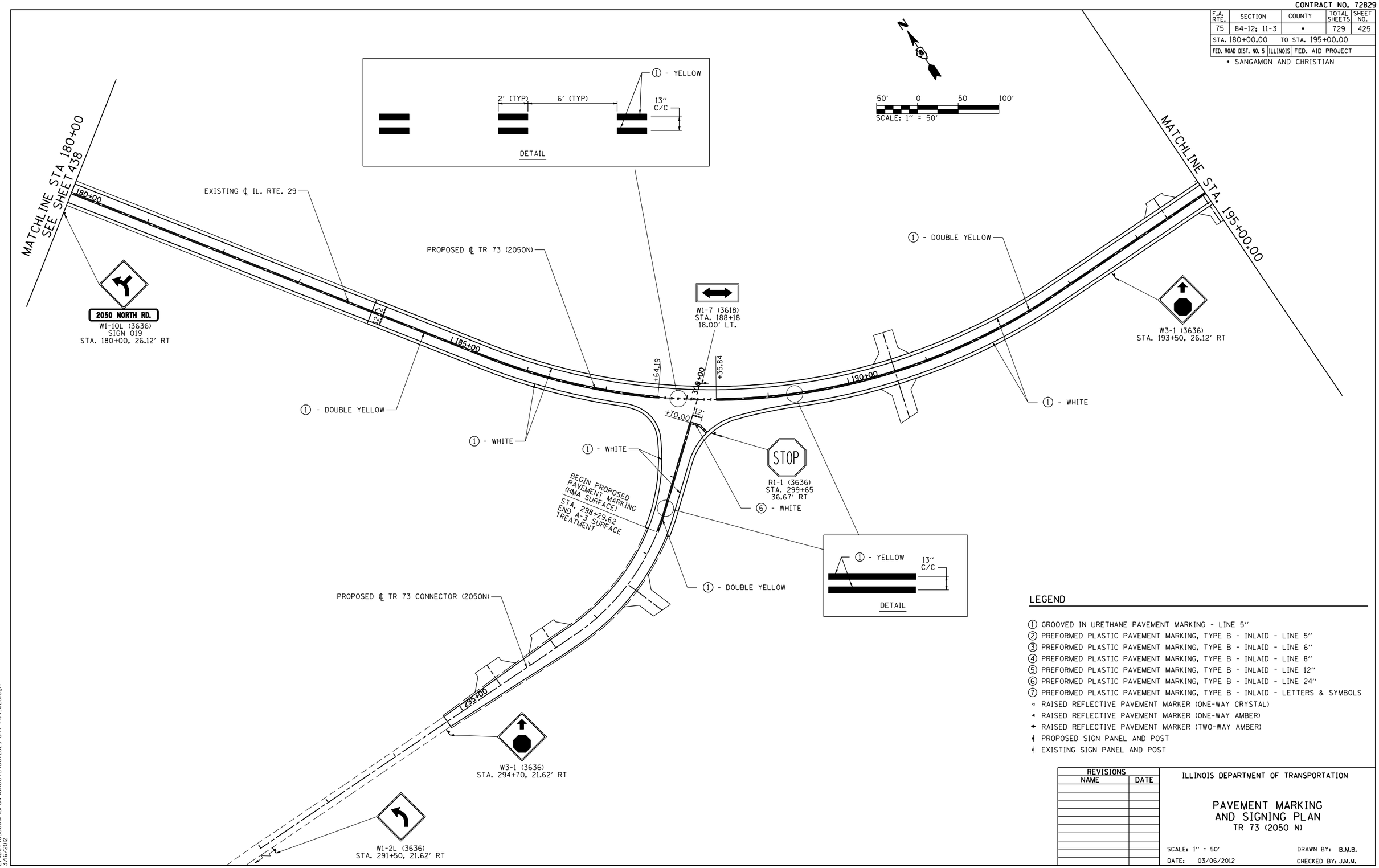
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 81 (2000 N)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	425
STA. 180+00.00 TO STA. 195+00.00				
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◂▸ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 73 (2050 N)

SCALE: 1" = 50'
DRAWN BY: B.M.B.
DATE: 03/06/2012
CHECKED BY: J.M.M.

Default
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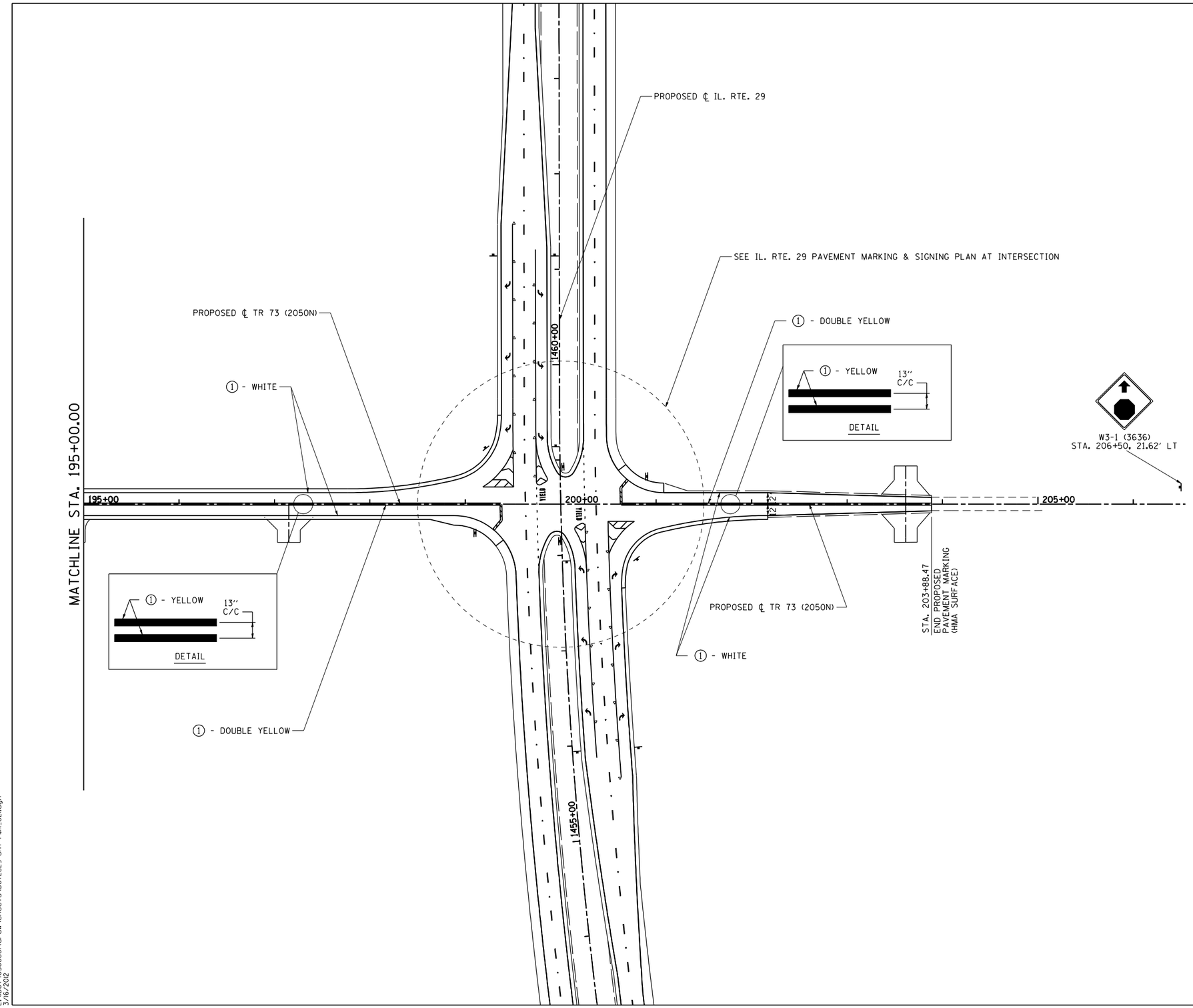
3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 73 (2050 N)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	426
STA. 195+00.00	TO STA. 206+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
◦ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 73 (2050 N)

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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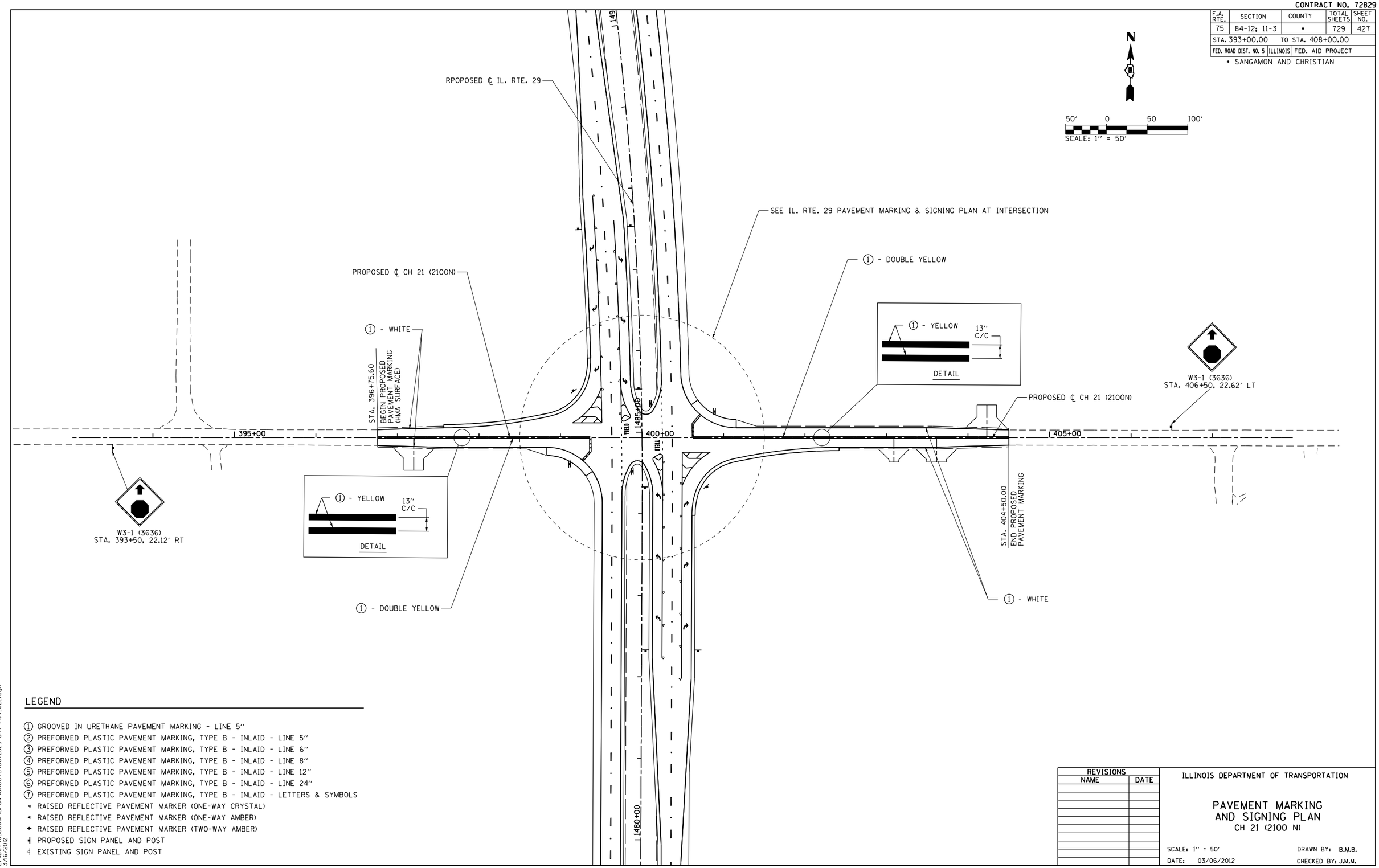
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 73 (2050 N)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	427
STA. 393+00.00 TO STA. 408+00.00				
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◀ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
CH 21 (2100 N)

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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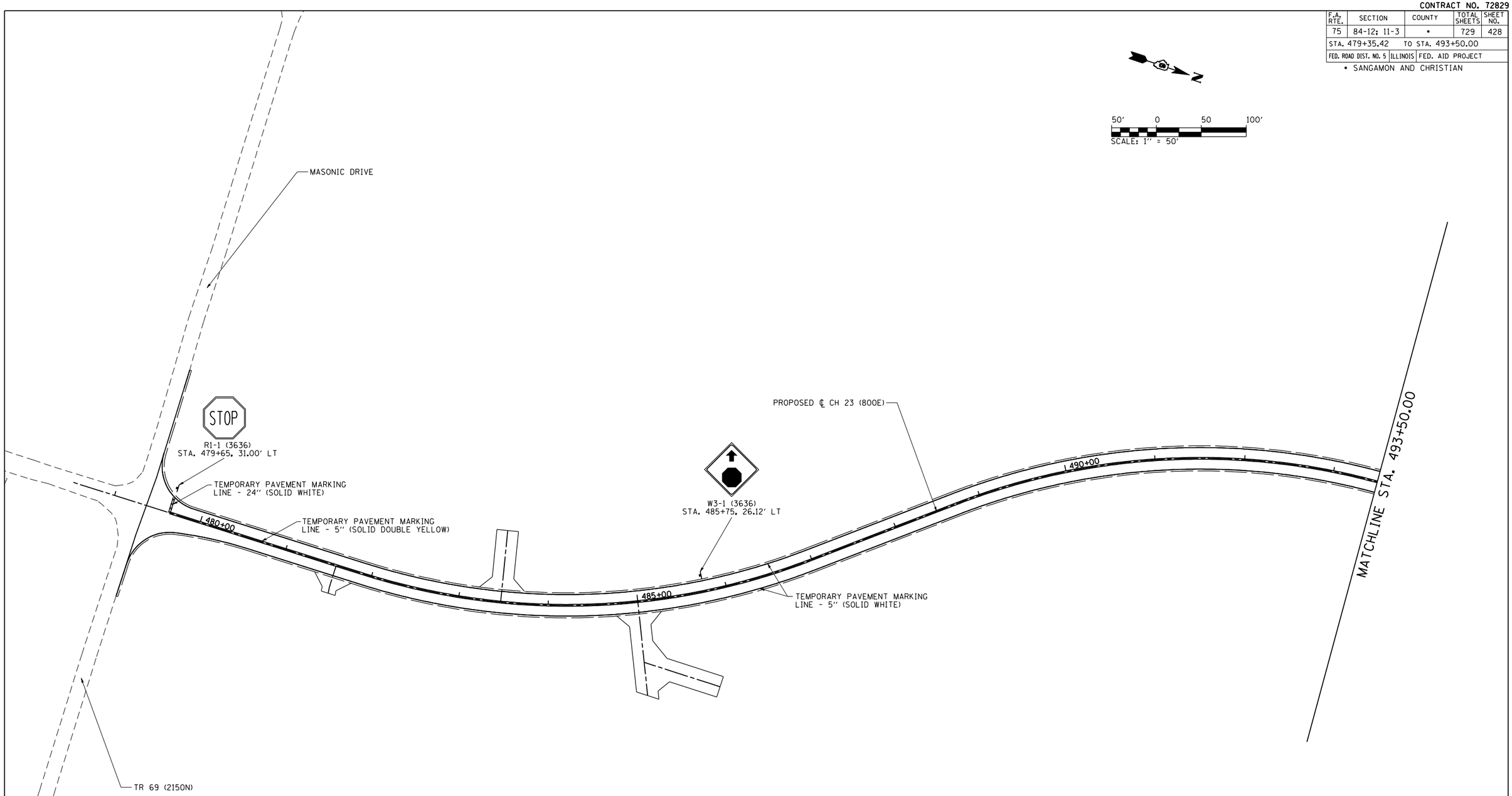
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: CH 21 (2100 N)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	428
STA. 479+35.42	TO STA. 493+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◀ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
CH 23 (800 E)

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: CH 23 (800 E)

CONTRACT NO. 72829

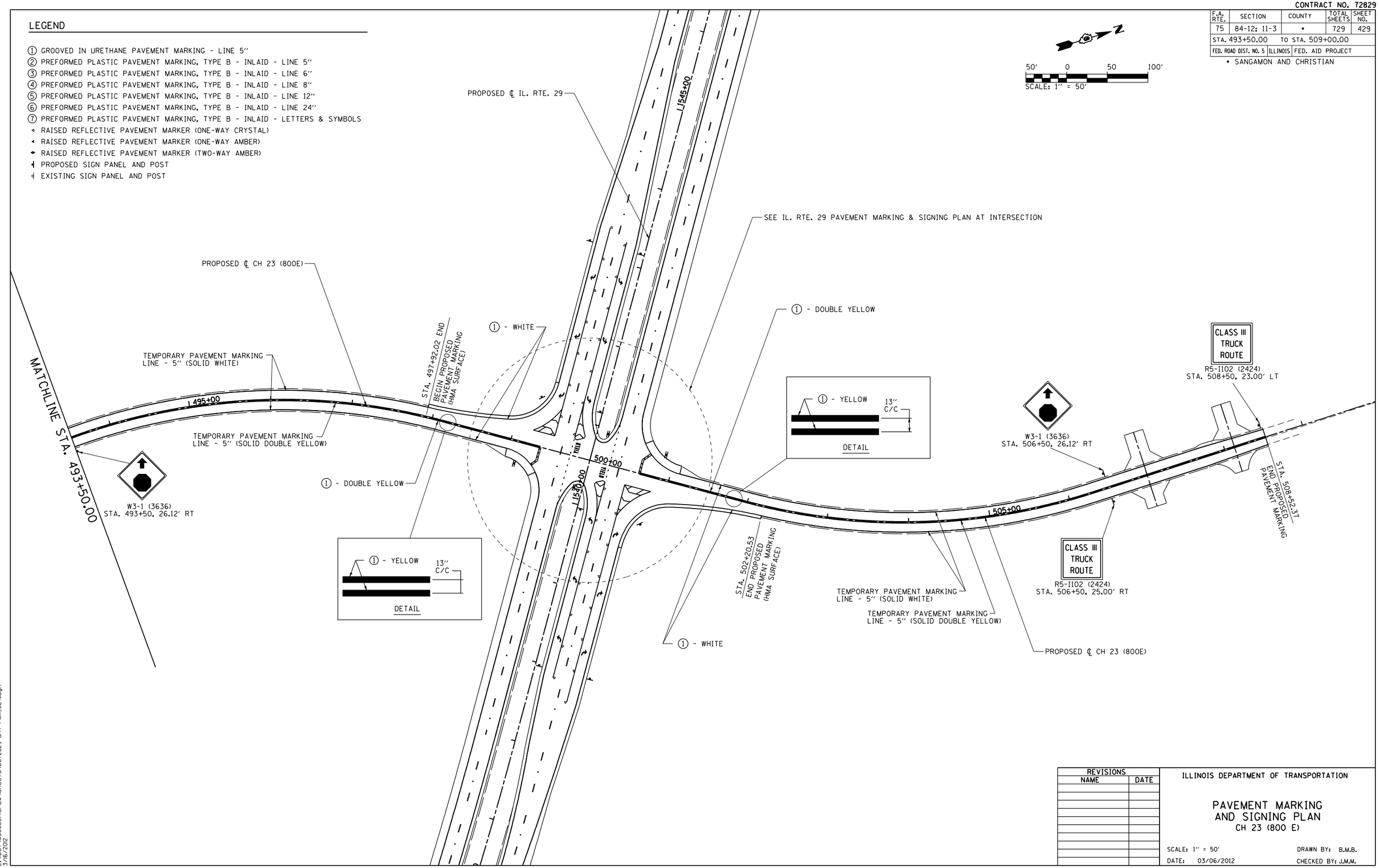
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	429
STA. 493+50.00 TO STA. 509+00.00				
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
CH 23 (800 E)

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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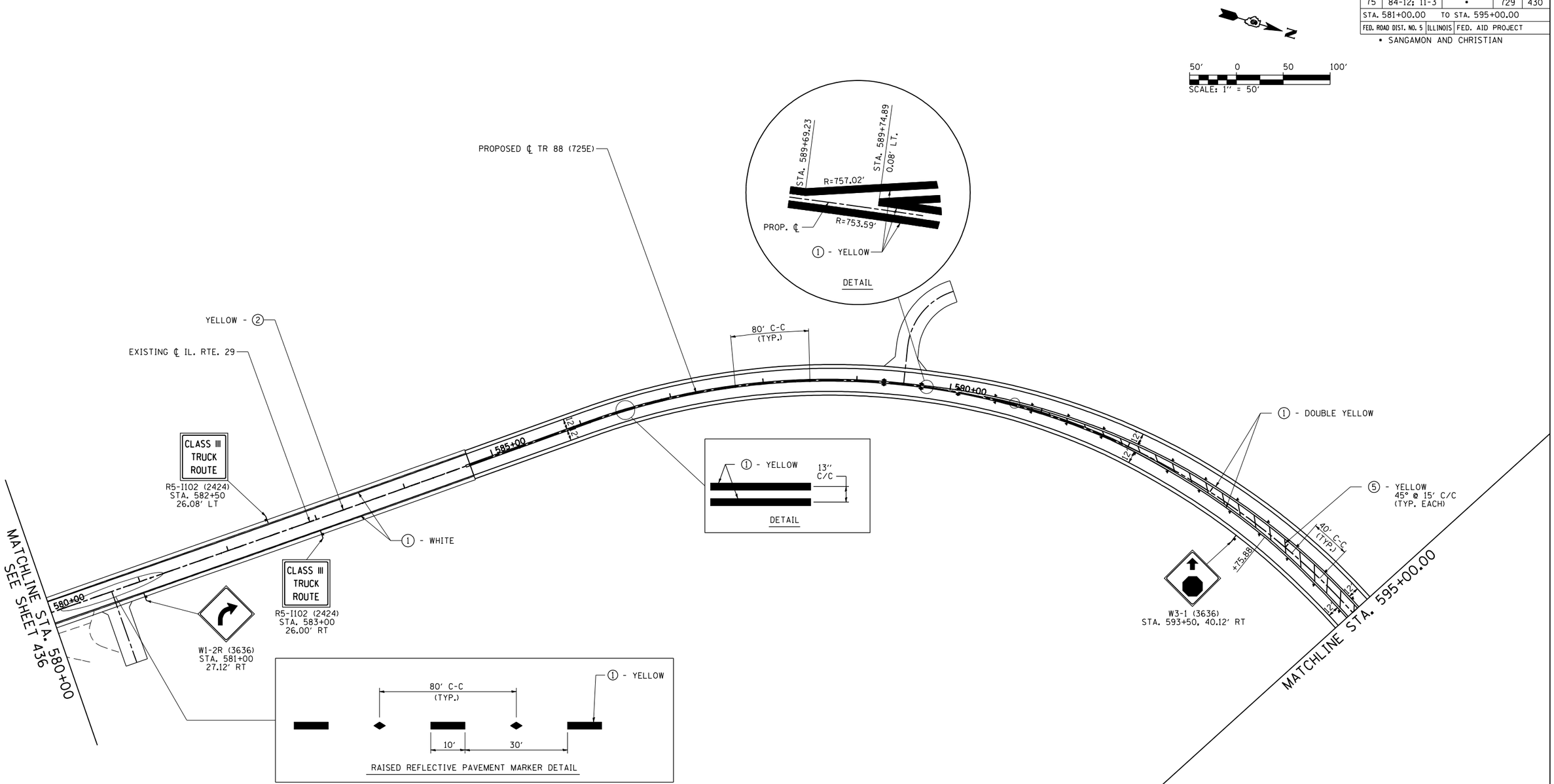
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: CH 23 (800 E)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	430
STA. 581+00.00	TO STA. 595+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5″
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5″
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6″
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8″
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12″
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24″
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◀ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 88 (725 E)

SCALE: 1″ = 50′ DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

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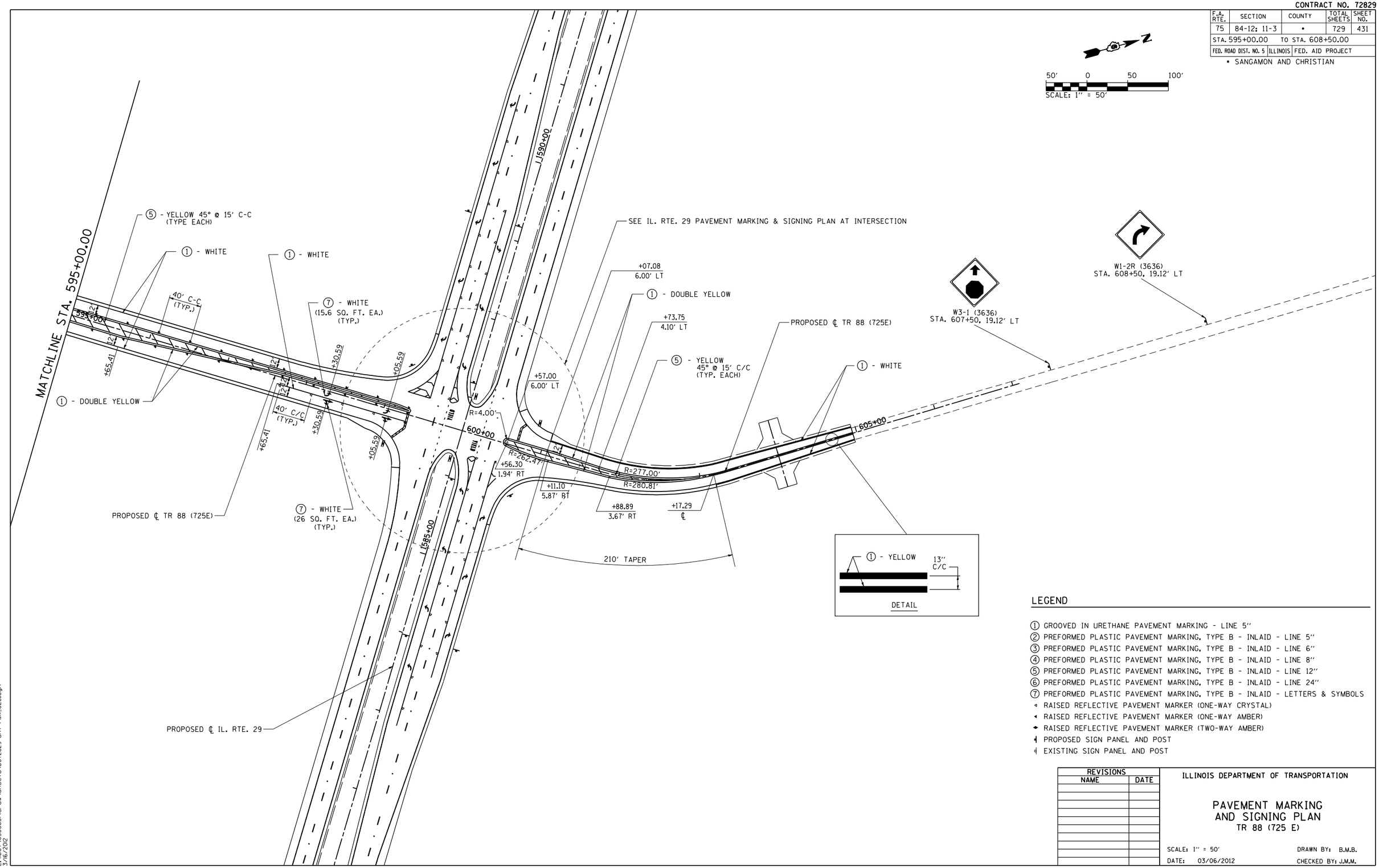
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 88 (725 E)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	431
STA. 595+00.00	TO STA. 608+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
◦ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
TR 88 (725 E)

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 88 (725 E)

CONTRACT NO. 72829

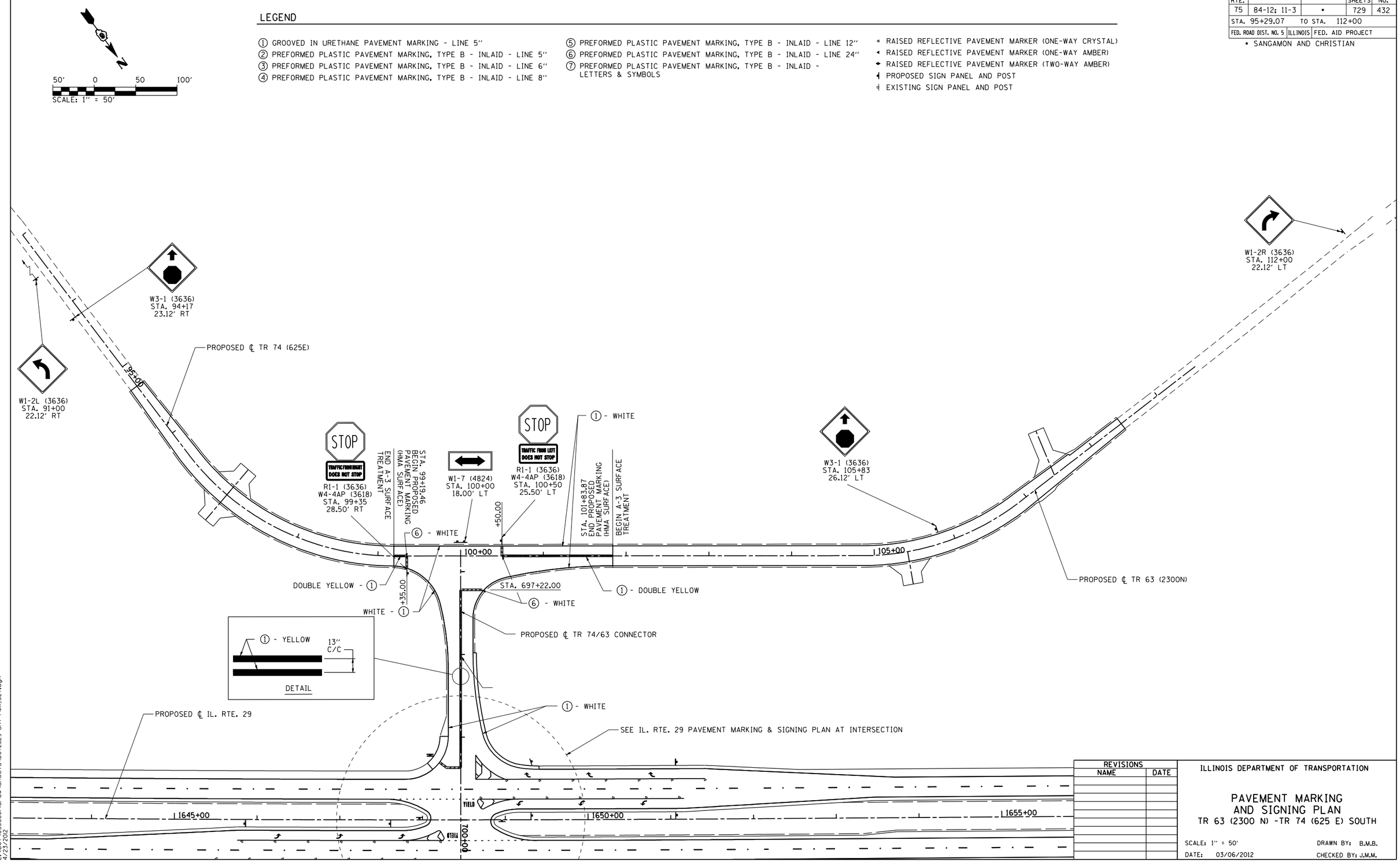
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	432
STA. 95+29.07	TO STA. 112+00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 63 (2300 N) -TR 74 (625 E) SOUTH

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

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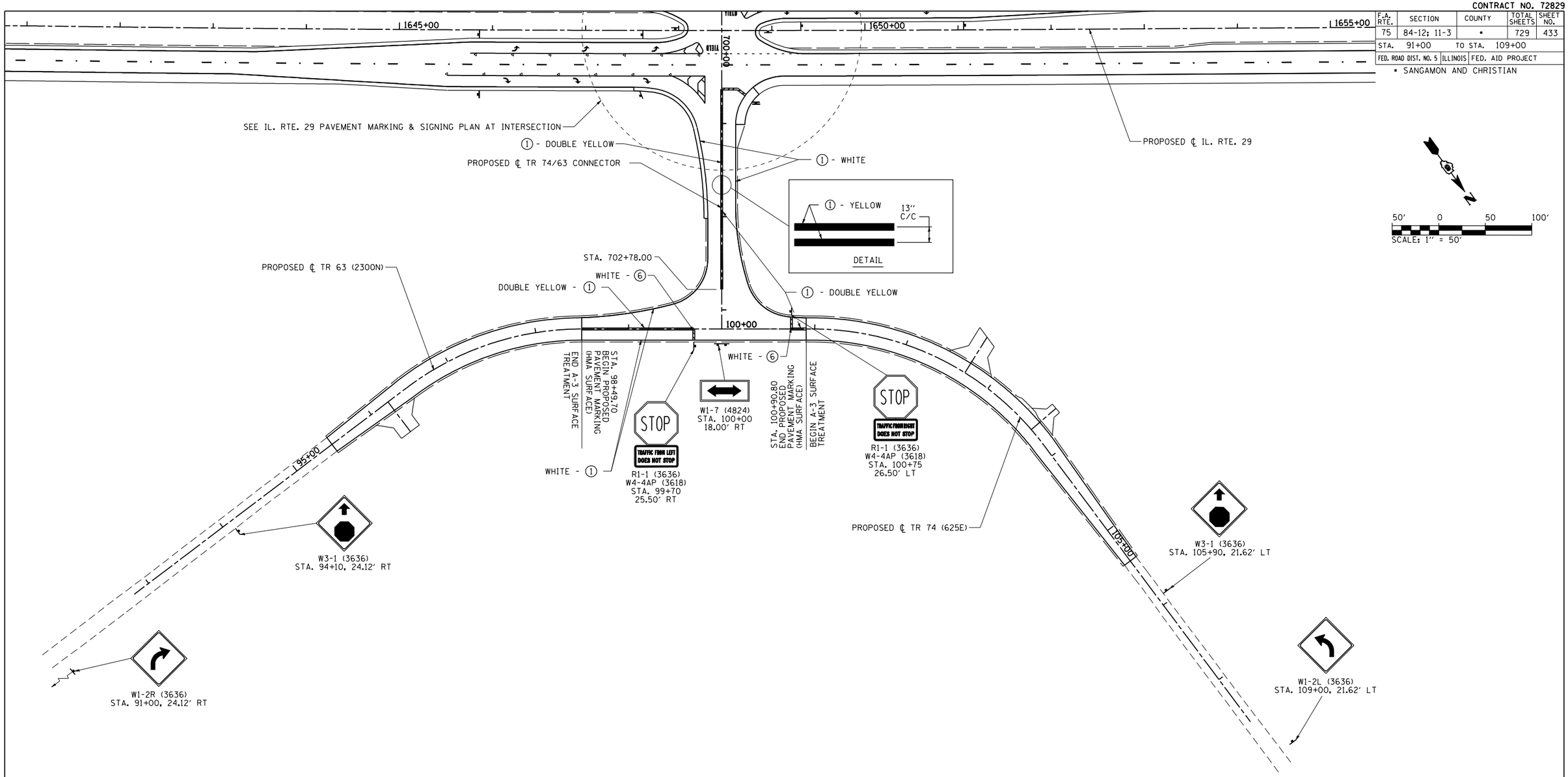
4/23/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 63 (2300 N) –TR 74 (625 E) – SOUTH

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	433
STA. 91+00	TO STA. 109+00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◀ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
TR 63 (2300 N) / TR 74 (625 E) NORTH

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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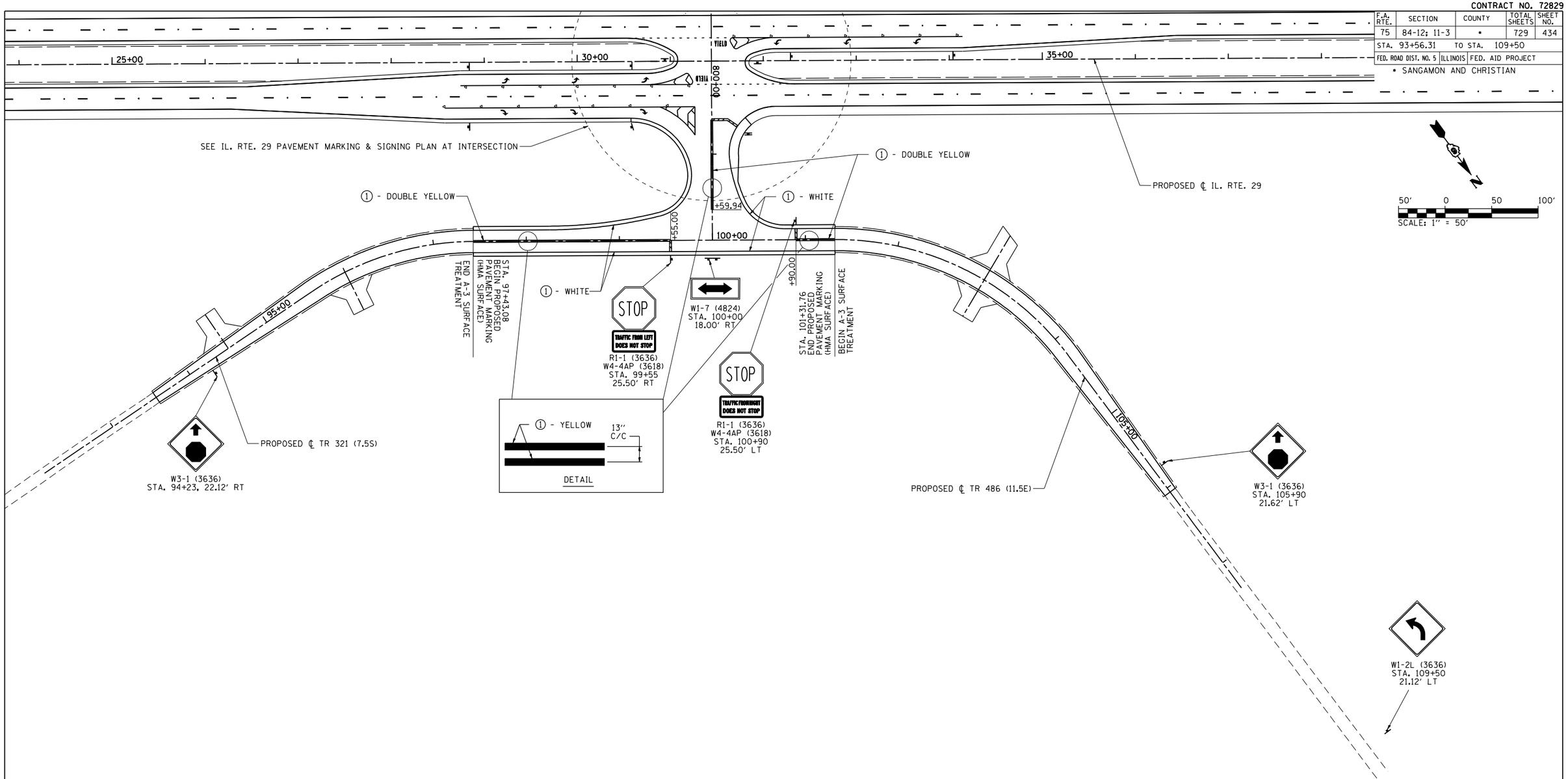
4/23/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 63 (2300 N)/TR 74 (625 E) – NORTH

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	434
STA. 93+56.31	TO STA. 109+50			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS

◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
TR 321 (7.5 S) - TR 486 (11.5 E)

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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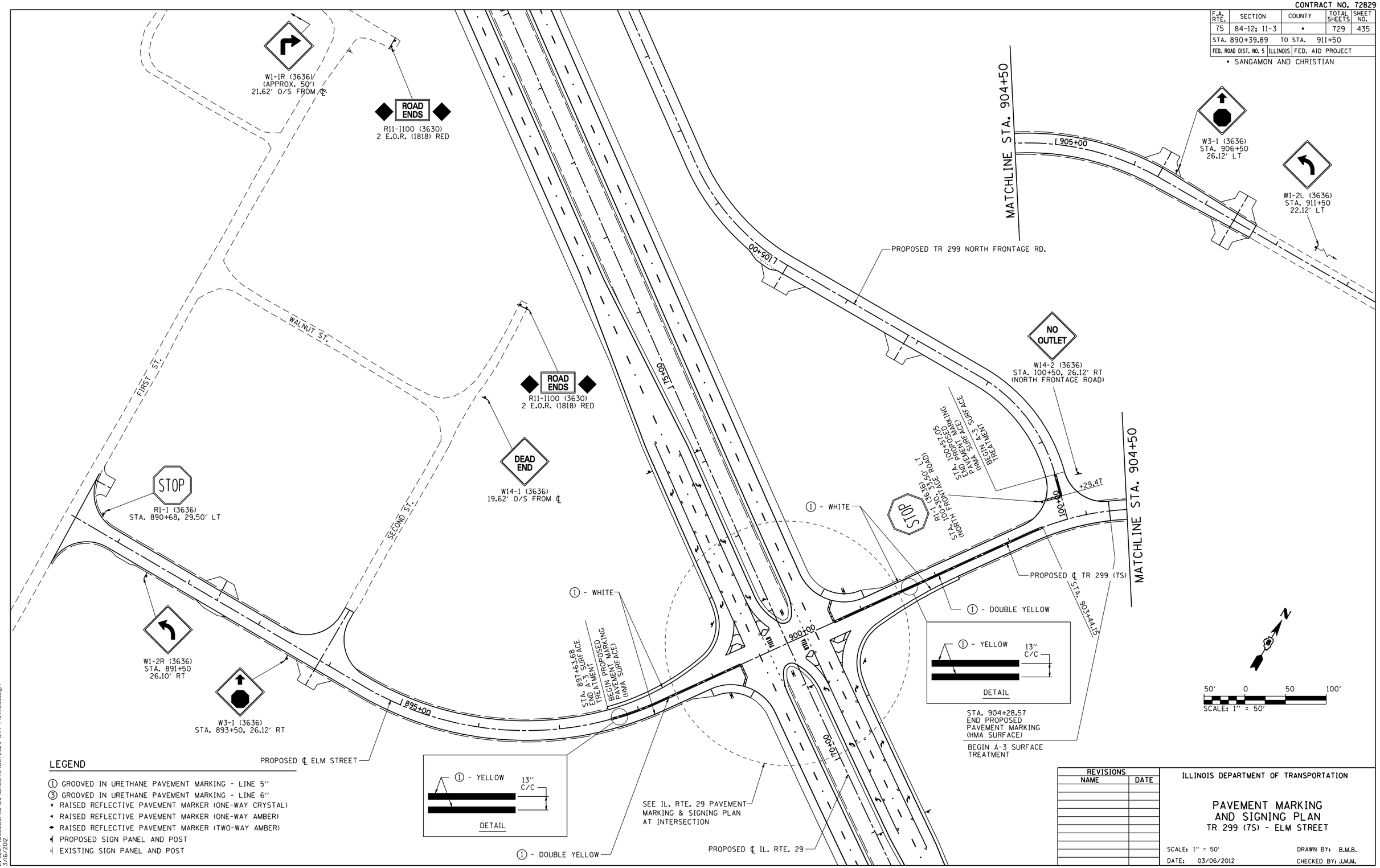
4/23/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 321 (7.5 S) – TR 486 (11.5 E)

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	435
STA. 890+39.89	TO STA. 911+50			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
③ GROOVED IN URETHANE PAVEMENT MARKING - LINE 6"
◃ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
TR 299 (7S) - ELM STREET

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: TR 299 (7S) – ELM STREET

CONTRACT NO. 72829

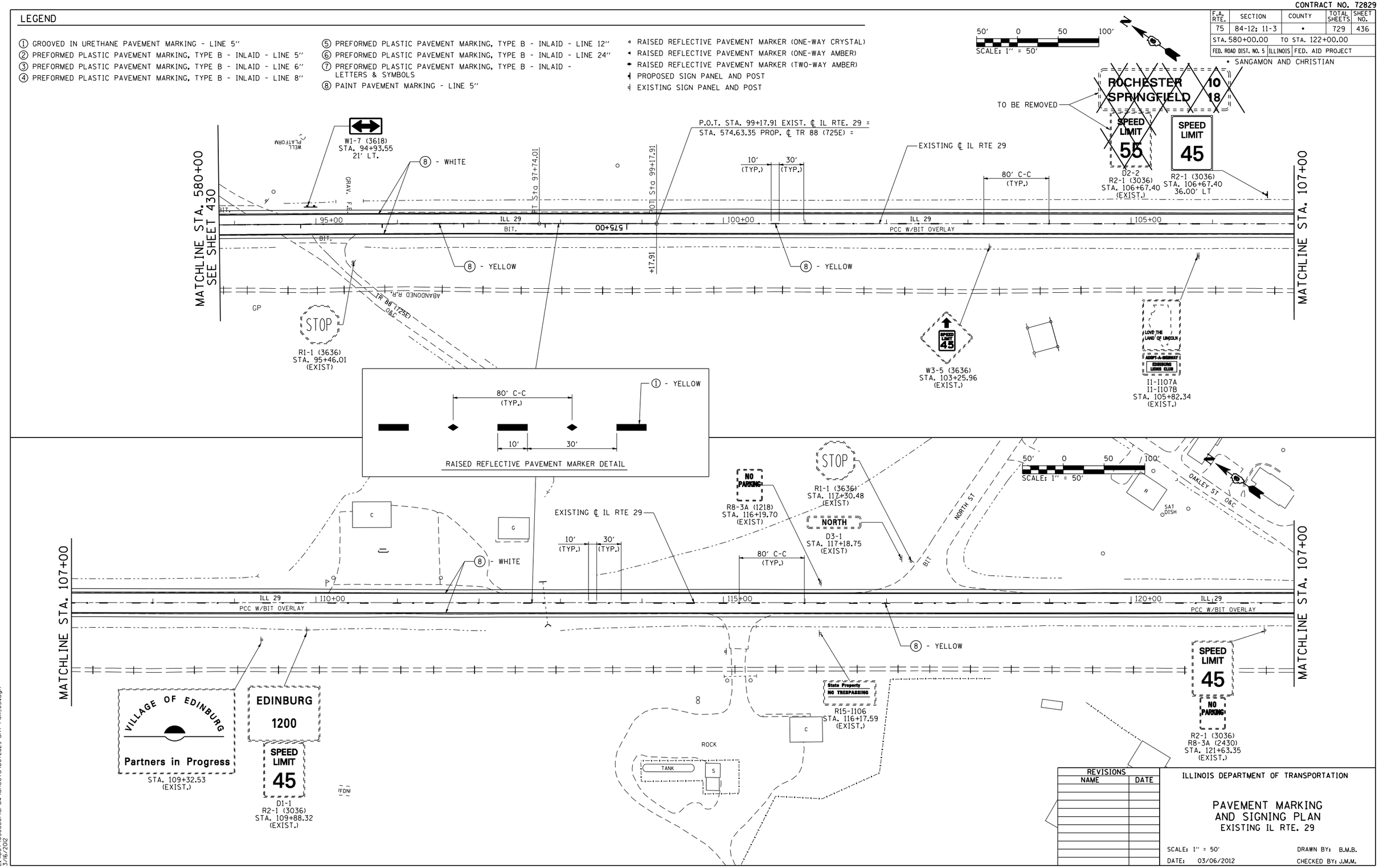
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	436
STA. 580+00.00	TO STA. 122+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

LEGEND

① GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
⑦ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
⑧ PAINT PAVEMENT MARKING - LINE 5"

◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
◂ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
◂▸ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
PROPOSED SIGN PANEL AND POST
EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND SIGNING PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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3/6/2012

PAVEMENT MARKING AND SIGNING PLAN: EXISTING IL RTE. 29

CONTRACT NO. 72829

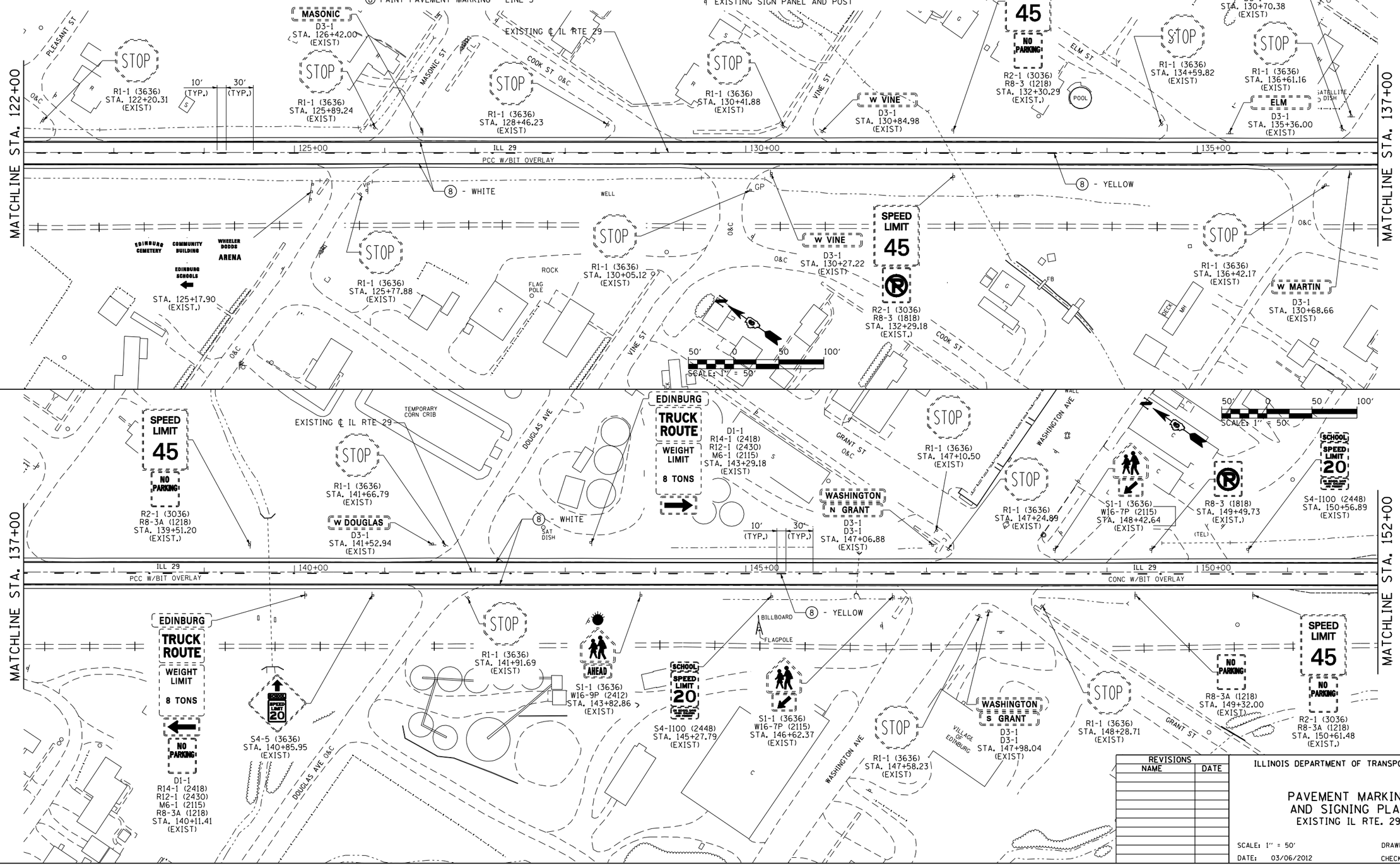
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	437
STA. 122+00.00	TO STA. 152+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
8. PAINT PAVEMENT MARKING - LINE 5"

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: B.M.B.
CHECKED BY: J.M.M.

Default
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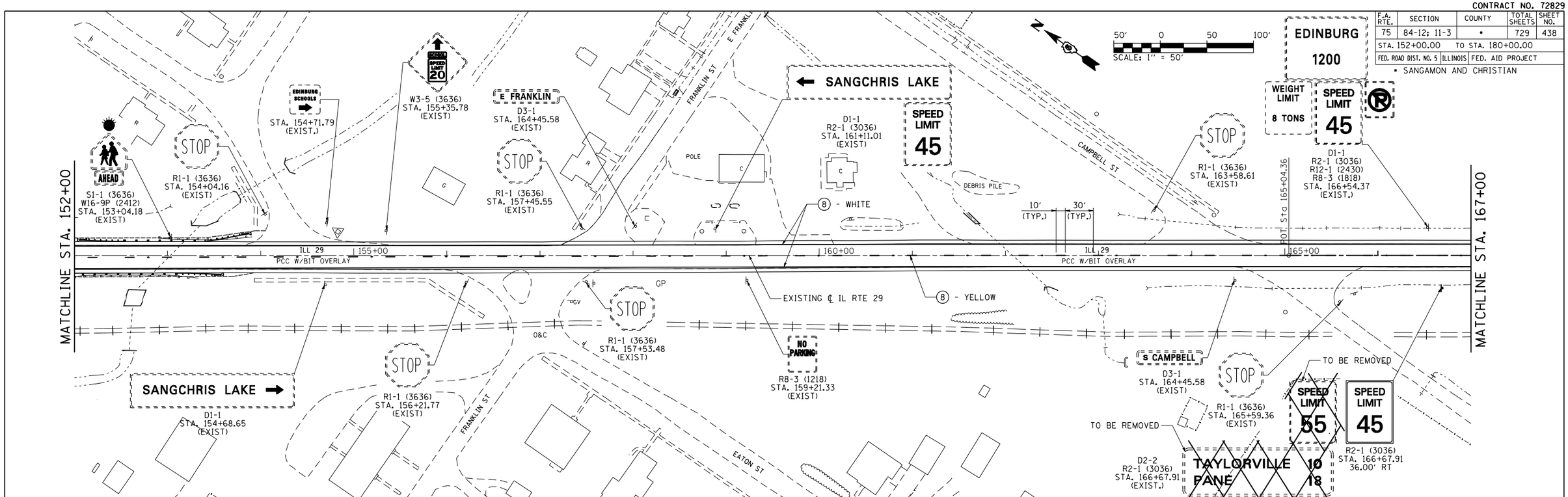
3/16/2012

PAVEMENT MARKING AND SIGNING PLAN: EXISTING IL RTE. 29

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	438
STA. 152+00.00	TO STA. 180+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



LEGEND

1. GROOVED IN URETHANE PAVEMENT MARKING - LINE 5"
2. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"
3. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"
4. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"
5. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 12"
6. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"
7. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS & SYMBOLS
8. PAINT PAVEMENT MARKING - LINE 5"

- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- PROPOSED SIGN PANEL AND POST
- EXISTING SIGN PANEL AND POST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
EXISTING IL RTE. 29

SCALE: 1" = 50' DRAWN BY: B.M.B.
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/16/2012

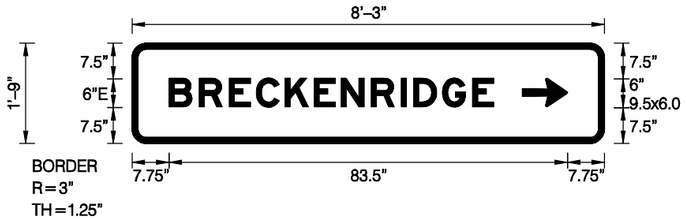
PAVEMENT MARKING AND SIGNING PLAN: EXISTING IL RTE. 29

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	439
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

SIGN DETAIL – 001
N.T.S.



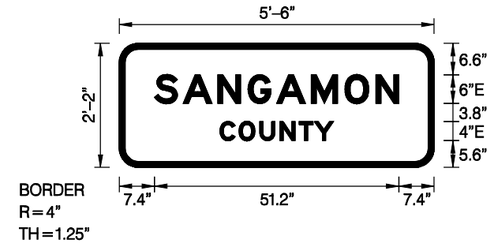
SIGN NUMBER	SIGN001	
WIDTH x HGHT.	8'–3" x 1'–9"	
BORDER WIDTH	1.25"	
CORNER RADIUS	3"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	81.8	7.5	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
B	R	E	C	K	E	N	R	I	D	G	E												E6
7.7	14.1	20.4	26	32.1	38.2	43.8	50.1	56.5	59	65.1	71.4											68.1	

SIGN DETAIL – 003
N.T.S.



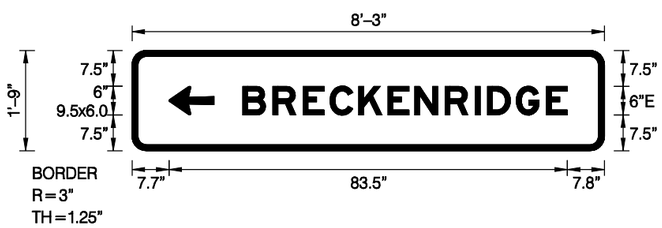
SIGN NUMBER	SIGN003	
WIDTH x HGHT.	5'–6" x 2'–2"	
BORDER WIDTH	1.25"	
CORNER RADIUS	4"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
S	A	N	G	A	M	O	N																E6
7.4	13.4	20.7	27	33	40.3	47.3	53.8															51.2	
C	O	U	N	T	Y																		E4
21.1	25.1	29.5	33.7	37.7	40.9																	23.8	

SIGN DETAIL – 002
N.T.S.



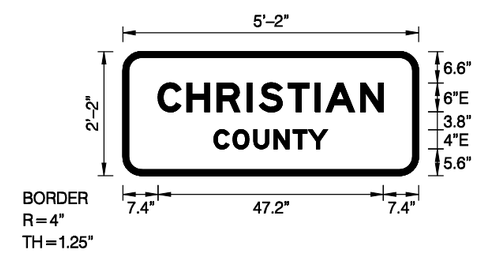
SIGN NUMBER	SIGN002	
WIDTH x HGHT.	8'–3" x 1'–9"	
BORDER WIDTH	1.25"	
CORNER RADIUS	3"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	7.7	7.5	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
B	R	E	C	K	E	N	R	I	D	G	E												E6
23.2	29.5	35.8	41.5	47.5	53.6	59.3	65.6	71.9	74.5	80.5	86.8											68.1	

SIGN DETAIL – 004
N.T.S.



SIGN NUMBER	SIGN004	
WIDTH x HGHT.	5'–2" x 2'–2"	
BORDER WIDTH	1.25"	
CORNER RADIUS	4"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
C	H	R	I	S	T	I	A	N															E6
7.4	13.4	19.7	26.1	28.6	34.7	40.3	42.6	49.8														47.2	
C	O	U	N	T	Y																		E4
19.1	23.1	27.5	31.7	35.7	38.9																	23.8	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE: N.T.S. DRAWN BY: IDOT D-6

DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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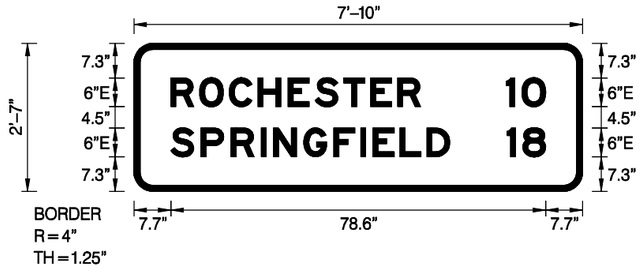
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	440
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

SIGN DETAIL – 005
N.T.S.



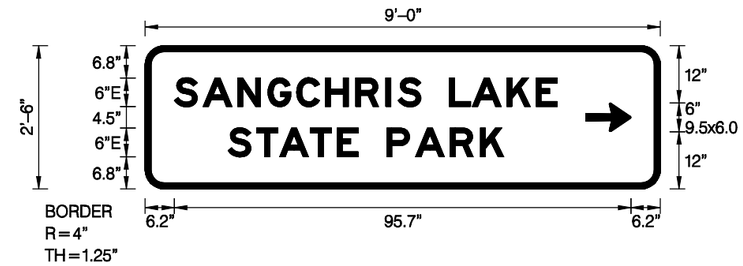
SIGN NUMBER	SIGN005	
WIDTH x HGHT.	7'–10" x 2'–7"	
BORDER WIDTH	1.25"	
CORNER RADIUS	4"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
R	O	C	H	E	S	T	E	R														52.3	E6
7.7	13.7	19.9	26	32.3	37.9	44	49.6	55.3															
1	0																					8.3	E6
78	81.3																						
S	P	R	I	N	G	F	I	E	L	D												58.5	E6
7.7	14	20.4	26.7	29.3	35.6	41.9	47.5	50.1	55.8	61.4													
1	8																					8.1	E6
78.2	81.5																						

SIGN DETAIL – 007
N.T.S.



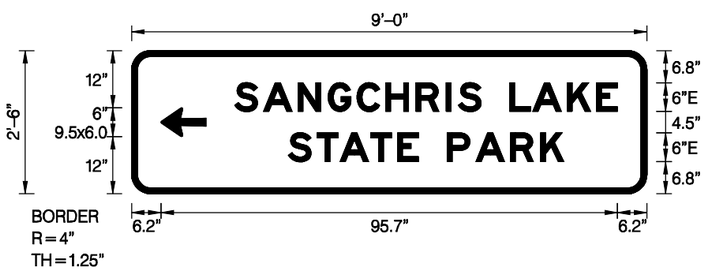
SIGN NUMBER	SIGN007	
WIDTH x HGHT.	9'–0" x 2'–6"	
BORDER WIDTH	1.25"	
CORNER RADIUS	4"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Brown
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	92.4	12	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																								LENGTH	SERIES/SIZE
S	A	N	G	C	H	R	I	S		L	A	K	E												E6
6.2	12.2	19.4	25.8	31.8	37.8	44.1	50.4	53	57.8	63.8	68.6	75.9	82											80.2	
S	T	A	T	E		P	A	R	K																E6
17.4	23.4	28.2	34.6	40.3	44.7	50.7	56.7	64	70.3															57.8	

SIGN DETAIL – 006
N.T.S.



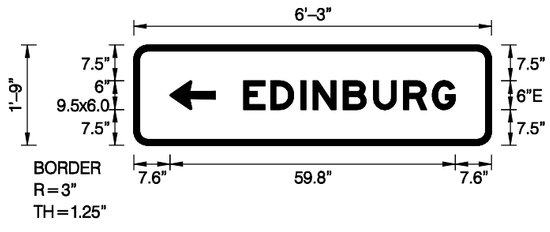
SIGN NUMBER	SIGN006	
WIDTH x HGHT.	9'–0" x 2'–6"	
BORDER WIDTH	1.25"	
CORNER RADIUS	4"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Brown
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	6.2	12	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
S	A	N	G	C	H	R	I	S		L	A	K	E									80.2	E6
21.6	27.6	34.9	41.2	47.2	53.3	59.6	65.9	68.5	73.3	79.3	84.1	91.3	97.4										
S	T	A	T	E		P	A	R	K													57.8	E6
32.8	38.9	43.7	50.1	55.7	60.2	66.1	72.2	79.4	85.7														

SIGN DETAIL – 008
N.T.S.



SIGN NUMBER	SIGN008	
WIDTH x HGHT.	6'–3" x 1'–9"	
BORDER WIDTH	1.25"	
CORNER RADIUS	3"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	7.6	7.5	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
E	D	I	N	B	U	R	G															44.3	E6
23.1	28.7	35	37.6	43.9	50.2	56.6	62.6																

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE: N.T.S. DRAWN BY: IDOT D-6
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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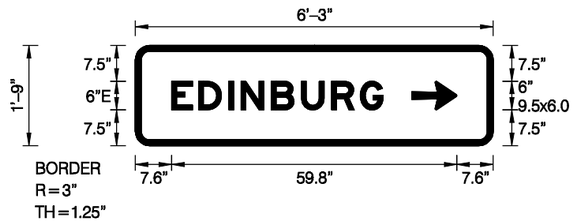
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	441
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

SIGN DETAIL – 009
N.T.S.



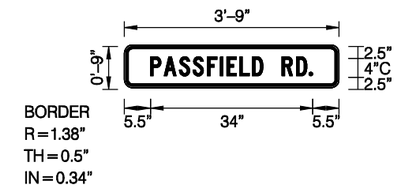
SIGN NUMBER	SIGN009
WIDTH x HGHT.	6'–3" x 1'–9"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	57.9	7.5	9.5	6

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
E	D	I	N	B	U	R	G														E6
7.6	13.2	19.6	22.1	28.5	34.8	41.1	47.1													44.3	

SIGN DETAIL – 011
N.T.S.



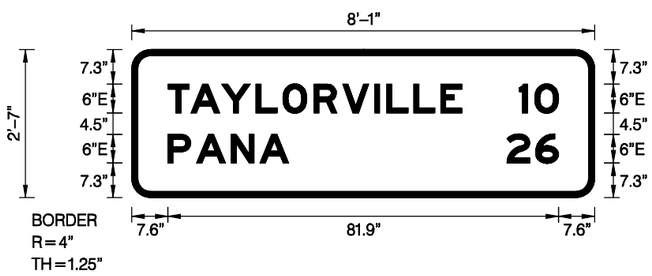
SIGN NUMBER	SIGN011
WIDTH x HGHT.	3'–9" x 0'–9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.38"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red /Black

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																							LENGTH	SERIES/SIZE
P	A	S	S	F	I	E	L	D		R	D	.												C4
5.5	8.4	11.5	14.4	17.4	20.1	21.5	24.2	26.9	29.1	33	36.1	38.7											34	

SIGN DETAIL – 010
N.T.S.



SIGN NUMBER	SIGN010
WIDTH x HGHT.	8'–1" x 2'–7"
BORDER WIDTH	1.25"
CORNER RADIUS	4"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
T	A	Y	L	O	R	V	I	L	L	E													E6
7.6	12.4	18.8	26	31.7	38.2	44.2	50.9	53.5	59.1	64.8												61.6	
1	0																						E6
81.2	84.5																					8.3	
P	A	N	A																				E6
7.6	13.6	20.8	26.9																			25.3	
2	6																						E6
78.6	84.6																					10.8	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE: N.T.S. DRAWN BY: IDOT D-6

DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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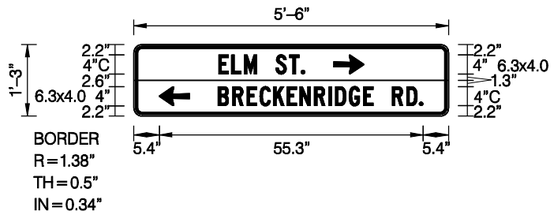
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	442
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

SIGN DETAIL – 013
N.T.S.



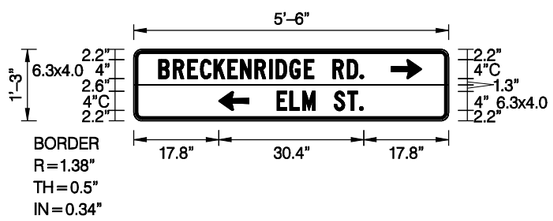
SIGN NUMBER	SIGN013	
WIDTH x HGHT.	5'–6" x 1'–3"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.38"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Yellow/Yellow
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Red /Black

SYMBOL	X	Y	WID	HT
ARMED	41.9	8.8	6.3	4
ARMED	5.4	2.2	6.3	4

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
E	L	M		S	T	.																	C4
17.8	20.5	23.2	25.8	29.8	32.6	35.1																18.1	
B	R	E	C	K	E	N	R	I	D	G	E		R	D	.								C4
17.7	20.7	23.7	26.4	29.3	32.1	34.8	37.8	40.9	42.3	45.1	48.2	50.2	54.2	57.2	59.8							43	

SIGN DETAIL – 014
N.T.S.



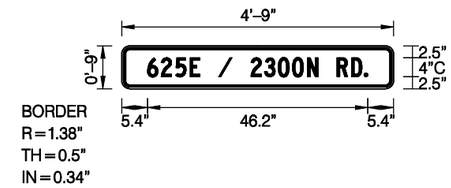
SIGN NUMBER	SIGN014	
WIDTH x HGHT.	5'–6" x 1'–3"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.38"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Yellow/Yellow
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Red /Black

SYMBOL	X	Y	WID	HT
ARMED	5.4	8.8	6.3	4
ARMED	41.9	2.2	6.3	4

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
B	R	E	C	K	E	N	R	I	D	G	E		R	D	.								C4
17.7	20.7	23.7	26.4	29.3	32.1	34.8	37.8	40.9	42.3	45.1	48.2	50.2	54.2	57.2	59.8							43	
E	L	M		S	T	.																	C4
17.8	20.5	23.2	25.8	29.8	32.6	35.1																18.1	

SIGN DETAIL – 015
N.T.S.



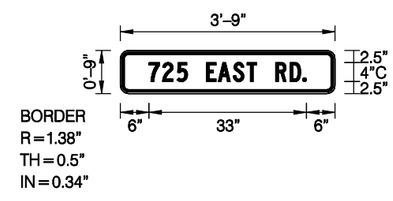
SIGN NUMBER	SIGN015	
WIDTH x HGHT.	4'–9" x 0'–9"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.38"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Yellow
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Red /Black

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
6	2	5	E		/		2	3	0	0	N		R	D	.								C4
5.4	8.3	11.3	14.4	16.4	20.4	23.1	27.1	29.9	32.8	35.8	39	41.1	45.1	48.2	50.8							46.2	

SIGN DETAIL – 016
N.T.S.



SIGN NUMBER	SIGN016	
WIDTH x HGHT.	3'–9" x 0'–9"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.38"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Yellow
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	Red /Black

SYMBOL	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
7	2	5		E	A	S	T		R	D	.												C4
6	8.8	11.9	14.1	18.1	20.5	23.7	26.6	28.6	32.6	35.6	38.2											33	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE: N.T.S. DRAWN BY: IDOT D-6

DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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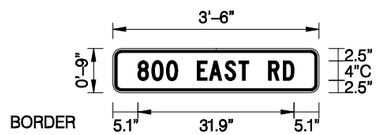
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	443
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

SIGN DETAIL – 017
N.T.S.



BORDER
R=1.38"
TH=0.5"
IN=0.34"

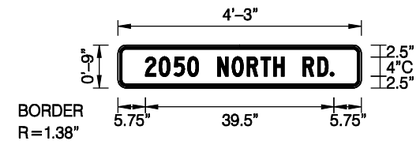
Letter locations are panel edge to lower left corner

SIGN NUMBER	SIGN017
WIDTH x HGHT.	3'–6" x 0'–9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.38"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red /Black

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
8	0	0		E	A	S	T		R	D													C4
5.1	7.9	10.9	13.2	17.2	19.7	22.8	25.7	27.7	31.7	34.7												31.9	

SIGN DETAIL – 019
N.T.S.



BORDER
R=1.38"
TH=0.5"
IN=0.34"

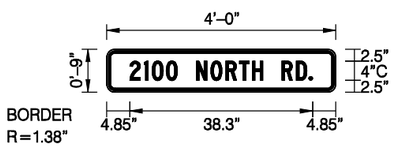
Letter locations are panel edge to lower left corner

SIGN NUMBER	SIGN019
WIDTH x HGHT.	4'–3" x 0'–9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.38"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red /Black

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
2	0	5	0		N	O	R	T	H		R	D	.										C4
5.7	8.6	11.7	14.6	16.9	20.9	23.9	27.1	29.9	32.6	34.8	38.8	41.8	44.5									39.5	

SIGN DETAIL – 018
N.T.S.



BORDER
R=1.38"
TH=0.5"
IN=0.34"

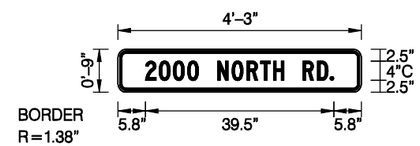
Letter locations are panel edge to lower left corner

SIGN NUMBER	SIGN018
WIDTH x HGHT.	4'–0" x 0'–9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.38"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red /Black

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
2	1	0	0		N	O	R	T	H		R	D	.										C4
4.8	7.9	9.5	12.5	14.8	18.8	21.8	25	27.9	30.5	32.7	36.7	39.7	42.4									38.3	

SIGN DETAIL – 020
N.T.S.



BORDER
R=1.38"
TH=0.5"
IN=0.34"

Letter locations are panel edge to lower left corner

SIGN NUMBER	SIGN020
WIDTH x HGHT.	4'–3" x 0'–9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.38"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red /Black

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
2	0	0	0		N	O	R	T	H		R	D	.										C4
5.8	8.6	11.6	14.6	16.9	20.9	23.9	27.1	29.9	32.6	34.8	38.8	41.8	44.4									39.5	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE: N.T.S. DRAWN BY: IDOT D-6
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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3/16/2012

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	444
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

GENERAL NOTES

1. ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
3. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. AFTER UNIT DUCT IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE SLOTTED HOLES IN THE POLE BASE PLATE.
4. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE "UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA." AND "UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE" PAY ITEMS.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CONCRETE WORK PAD IN FRONT OF THE LIGHTING CONTROLLER PER SECTION 825 OF THE STANDARD SPECIFICATIONS.
7. INSTALL HORIZONTAL MOUNT LUMINAIRES PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY AS REQUIRED BY ARTICLE 821.04 OF THE STANDARD SPECIFICATIONS.
8. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. SHALL BE SCHEDULE 80 AS NOTED IN THE PLANS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
250W LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	48	FT
	Number Of Lanes	4	
	Median Width	N/A	
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	45	FT
	Mast Arm Length	15	FT
	Pole Set-Back From Edge Of Pavement	15	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	28,500	
	IES Vertical Distribution	M	
	IES Control Of Distribution	FC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	145	FT
	Configuration	Single Sided	
	Luminaire Overhang Over Edge Of Pavement Lane	0	FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

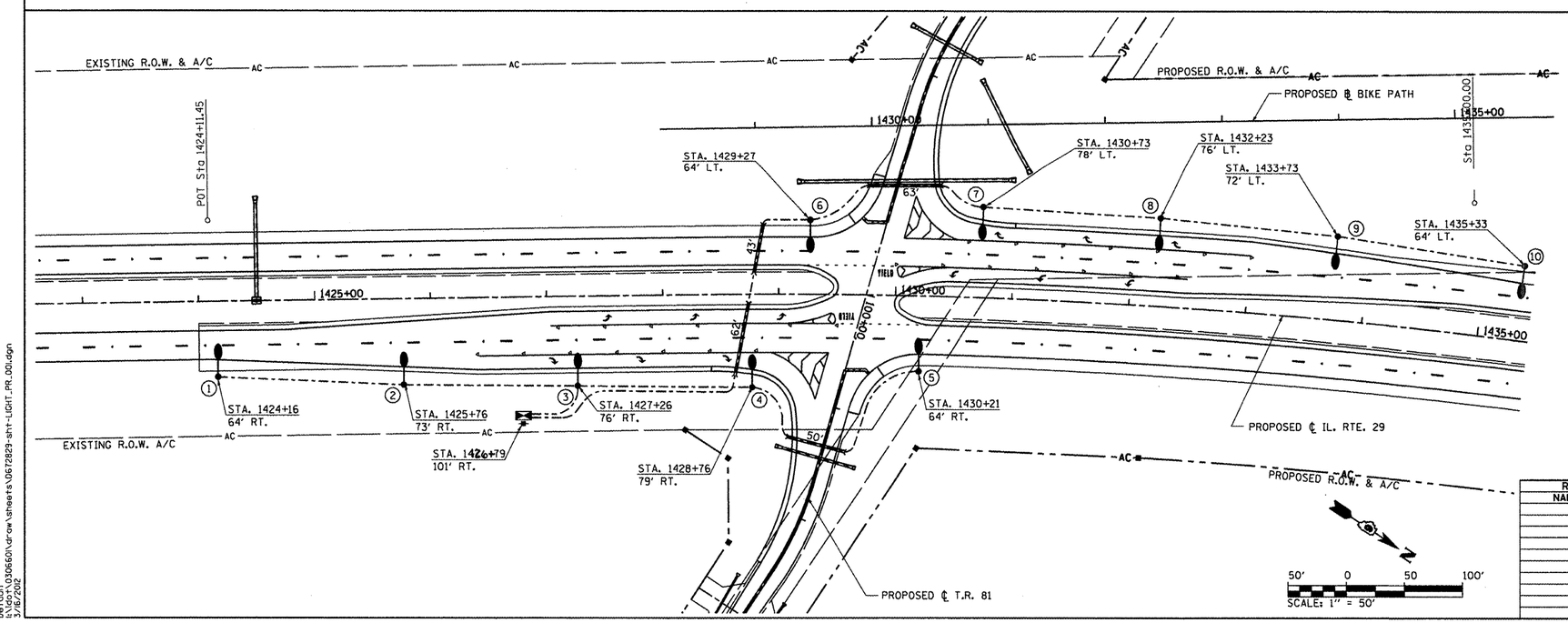
PERFORMANCE REQUIREMENTS

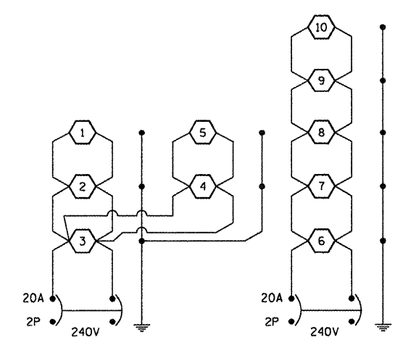
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.9	fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0	
LUMINANCE:	Average Luminance: (L_{Ave})	0.6	Cd/m²
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5	
	(L_{Max}/L_{Min})	6.0	
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.30	

LEGEND

- LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM WITH LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT. 250 WATT, WITH BREAKAWAY COUPLINGS.
- ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, POLE MOUNTED, 240V, 60A
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP TYPE USE), 3/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. (SCHEDULE 80), UNLESS NOTED OTHERWISE





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ILLINOIS RTE. 29 & TR 81

SCALE: 1" = 50' DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

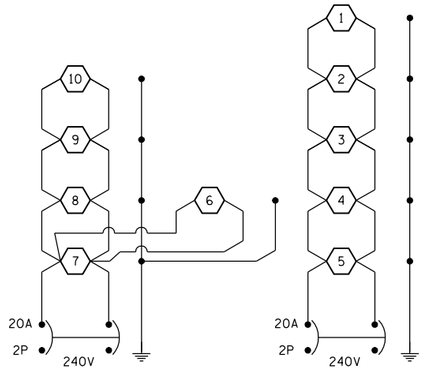
Default
USER NAME=030660\\drawsheets\0672829-sht-LIGHT_PR_00.dgn
3/16/2012

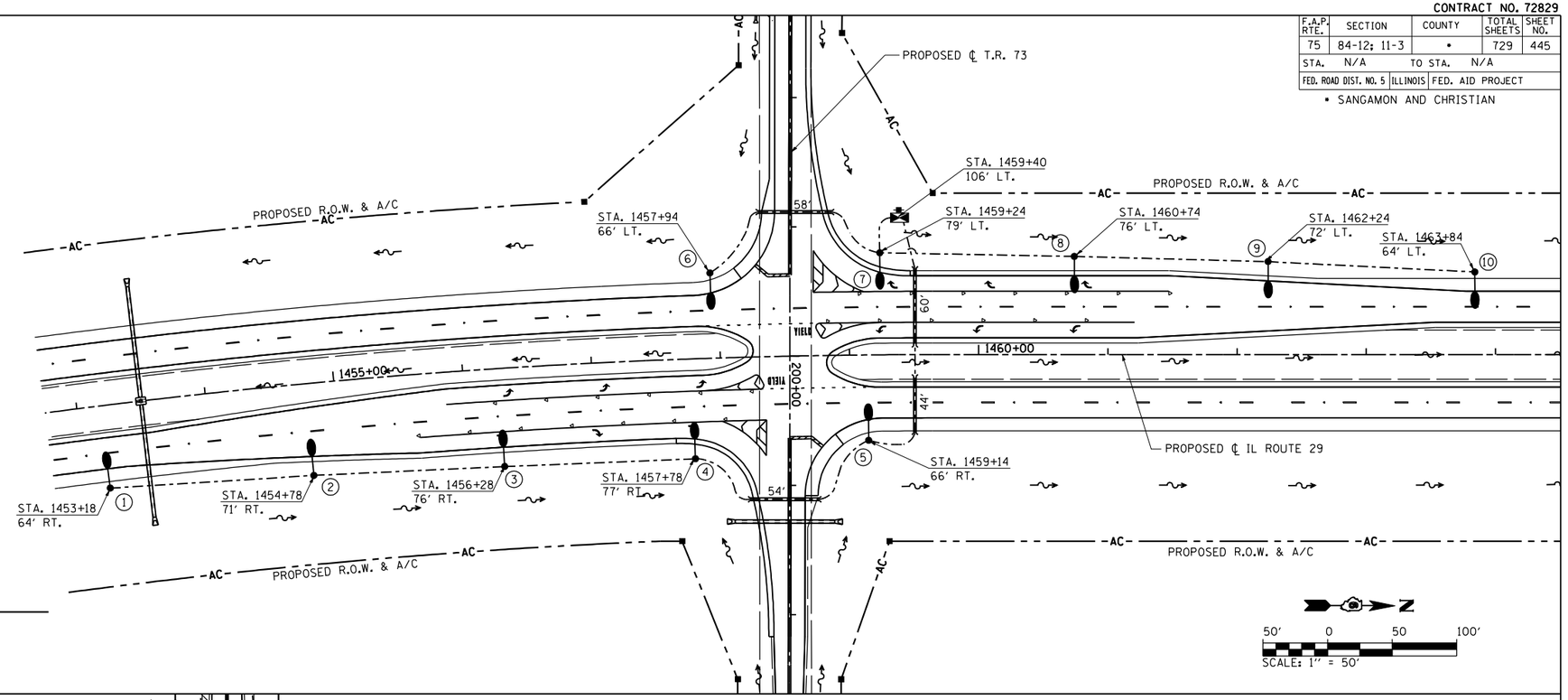
LIGHTING PLAN: IL. RTE. 29 – STA. 1422+50 TO STA. 1435+00

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	445
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

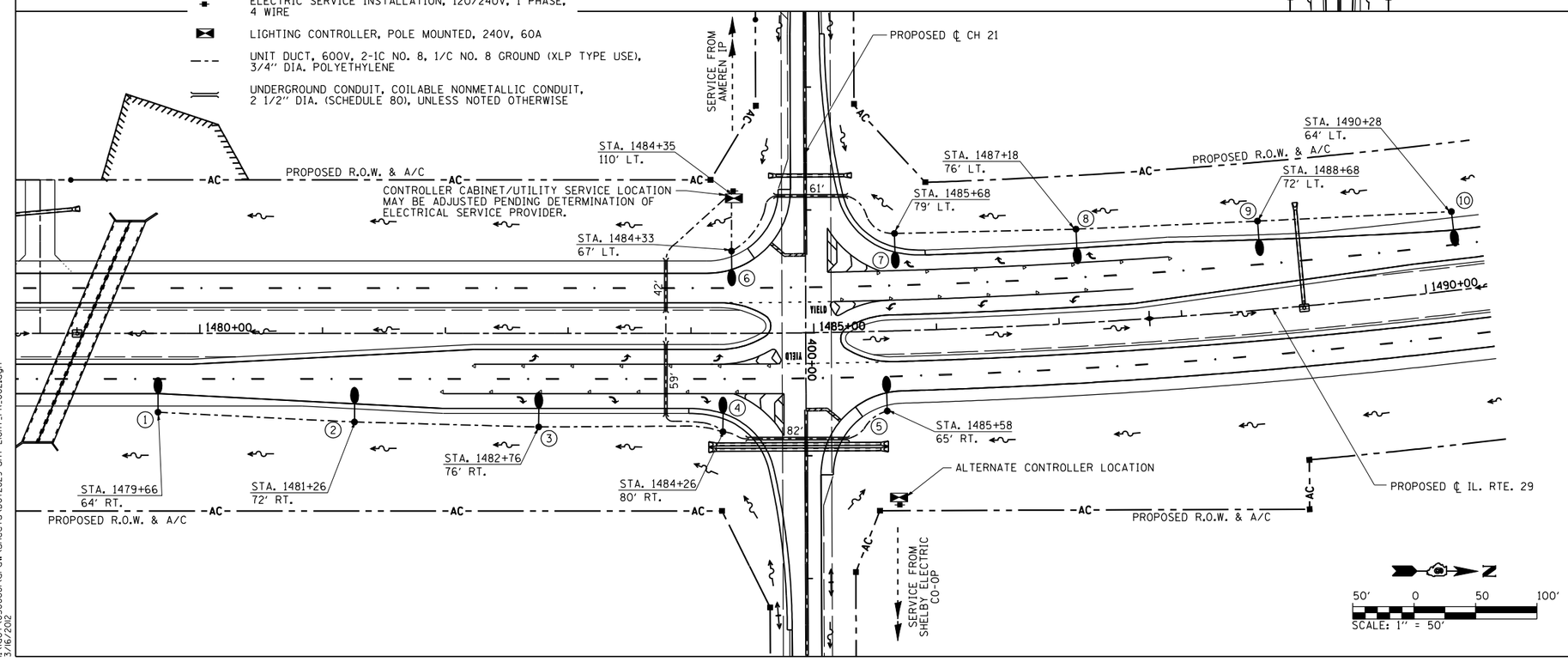
* SANGAMON AND CHRISTIAN

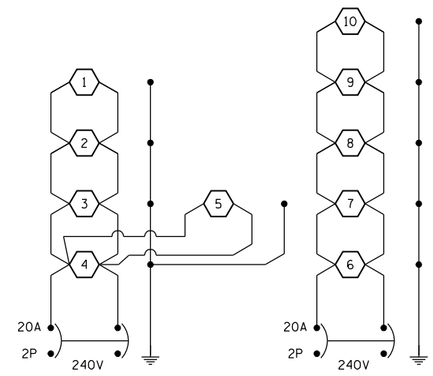




LEGEND

- LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM WITH LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT. 250 WATT, WITH BREAKAWAY COUPLINGS.
- ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, POLE MOUNTED, 240V, 60A
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP TYPE USE), 3/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. (SCHEDULE 80), UNLESS NOTED OTHERWISE





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ILLINOIS RTE. 29 & TR 73
ILLINOIS RTE. 29 & CH 21

SCALE: 1" = 50' DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
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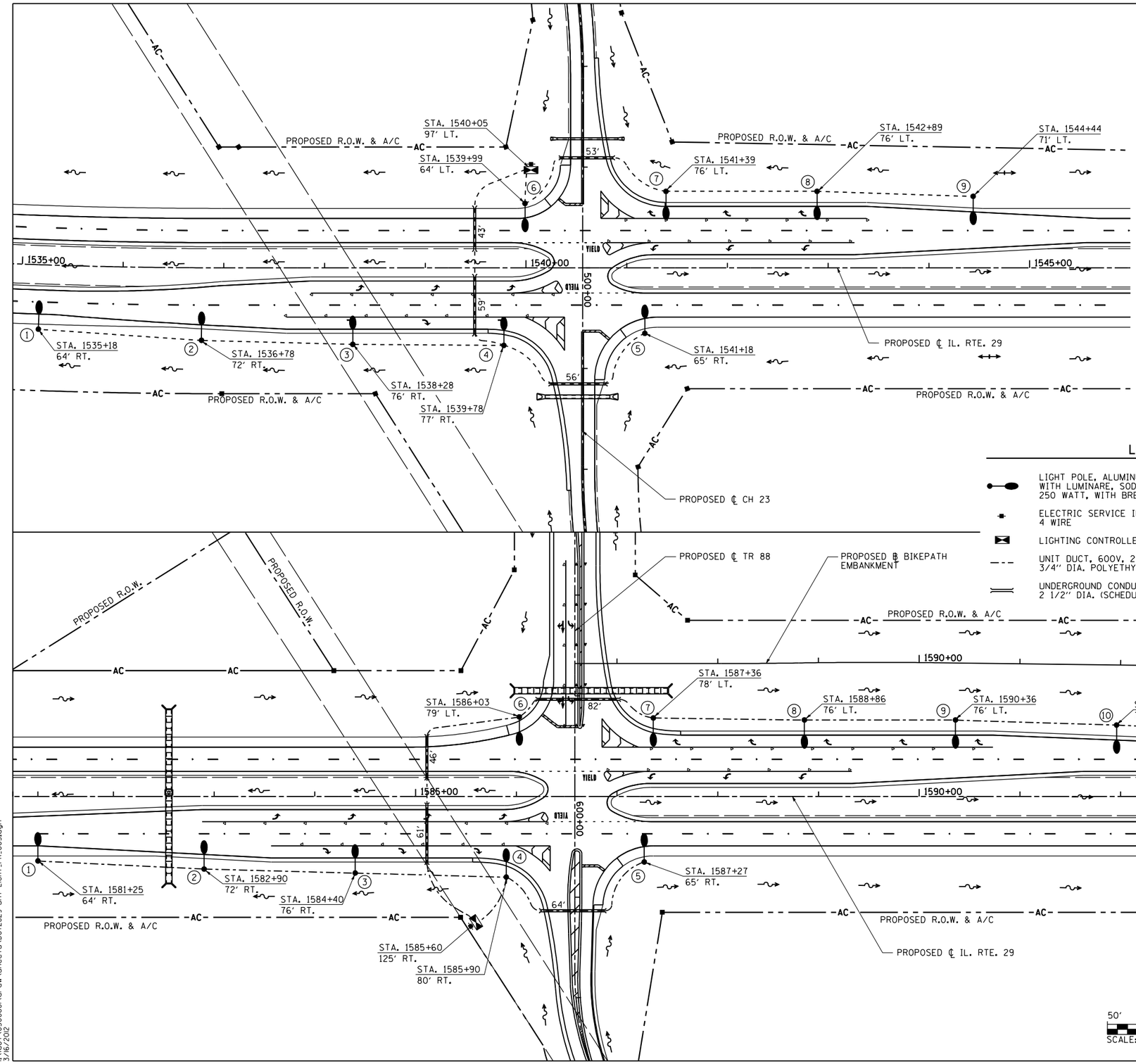
3/16/2012

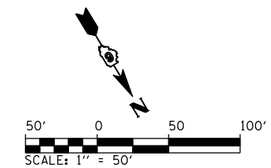
LIGHTING PLAN: IL. RTE. 29

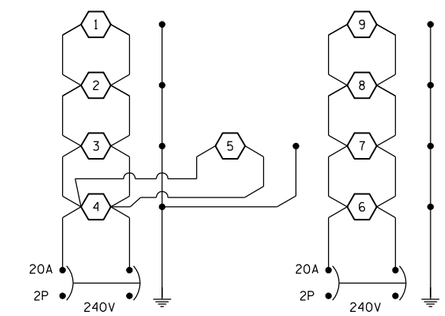
CONTRACT NO. 72829

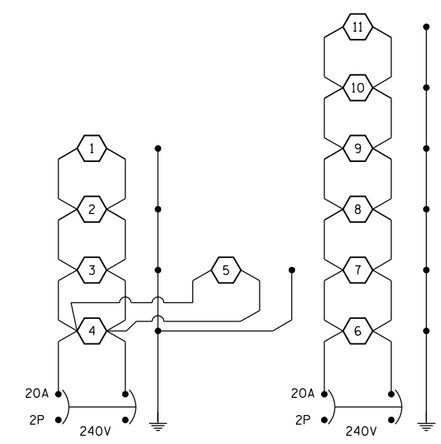
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	446
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN









LEGEND

- LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM WITH LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT. 250 WATT, WITH BREAKAWAY COUPLINGS.
- ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, POLE MOUNTED, 240V, 60A
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP TYPE USE), 3/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. (SCHEDULE 80), UNLESS NOTED OTHERWISE

*NOTE: ALL CONDUIT PUSHED OR TRENCHED AS DETERMINED BY THE ENGINEER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

ILLINOIS RTE. 29 & CH 23

ILLINOIS RTE 29 & TR 88

SCALE: 1" = 50'

DRAWN BY: IDOT

DATE: 03/06/2012

CHECKED BY: J.M.M.

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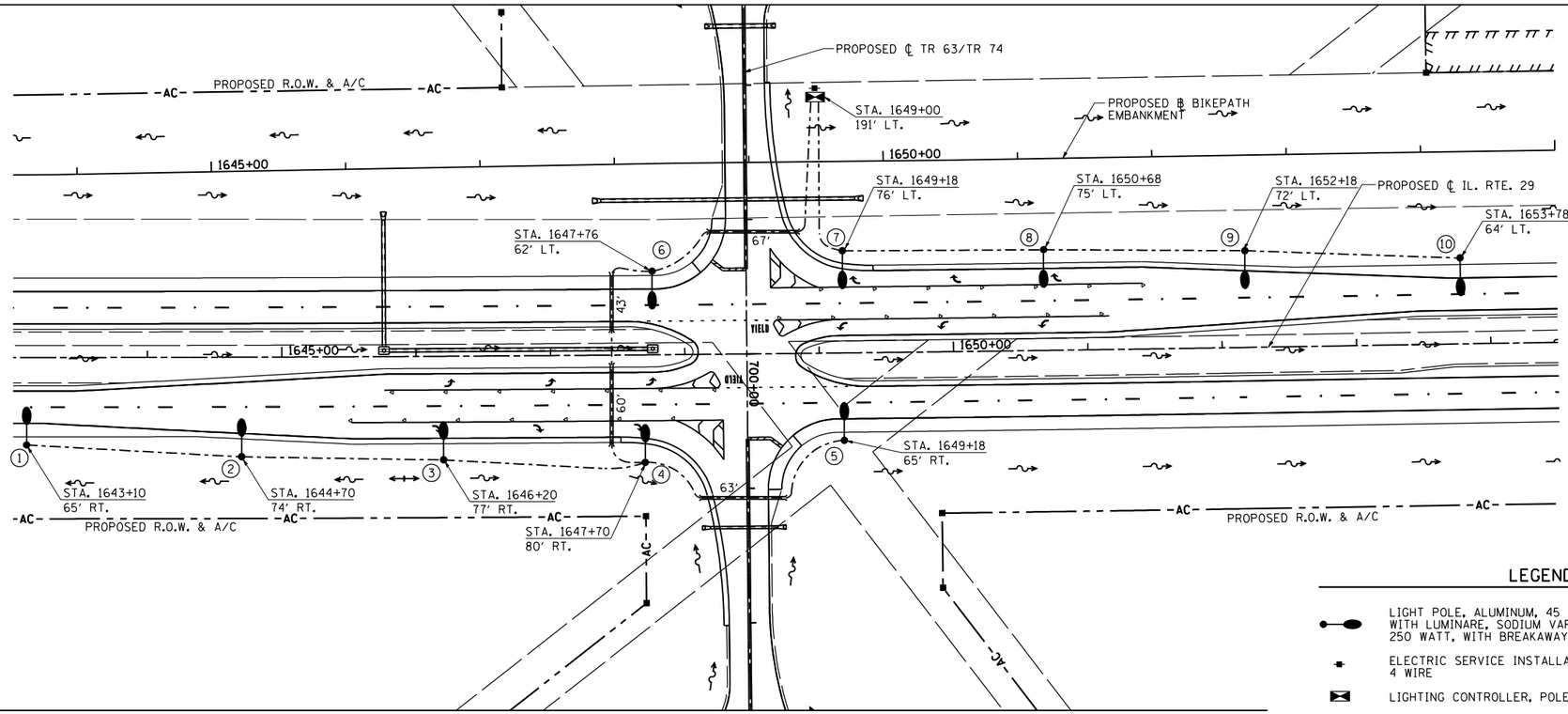
3/16/2012

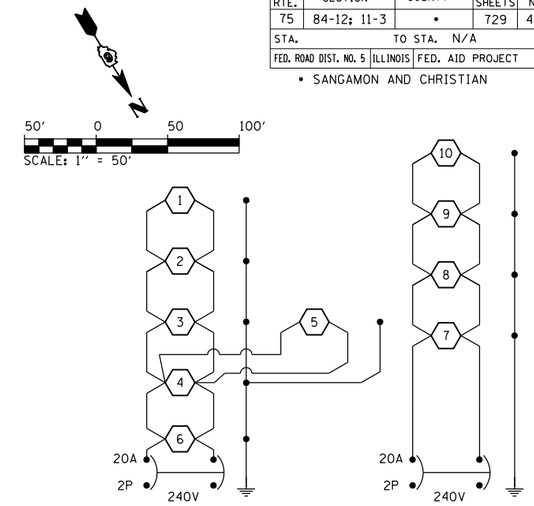
LIGHTING PLAN: IL. RTE. 29

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	447
STA.		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

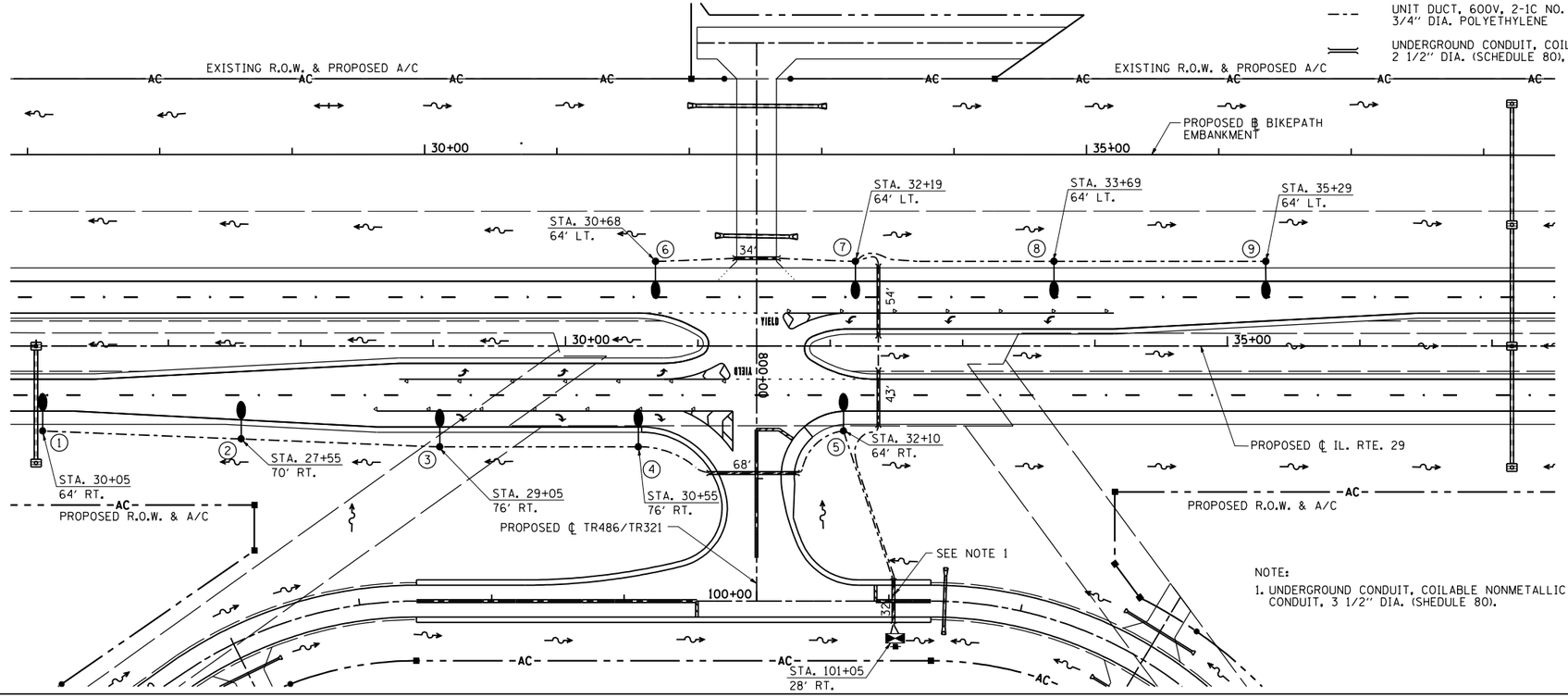


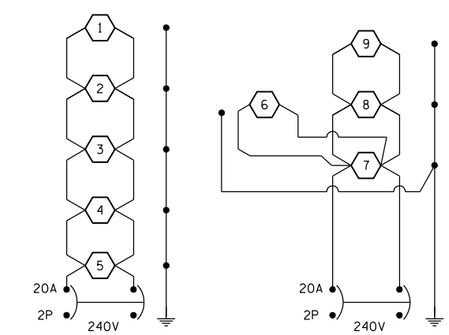


LEGEND

- LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM WITH LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT. 250 WATT, WITH BREAKAWAY COUPLINGS.
- ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, POLE MOUNTED, 240V, 60A
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP TYPE USE), 3/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. (SCHEDULE 80), UNLESS NOTED OTHERWISE

*NOTE: ALL CONDUIT PUSHED OR TRENCHED AS DETERMINED BY THE ENGINEER.





NOTE:

1. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3 1/2" DIA. (SHEDULE 80).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ILLINOIS RTE. 29 & TR 63/74
ILLINOIS RTE 29 & TR 486/321

SCALE: 1" = 50' DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

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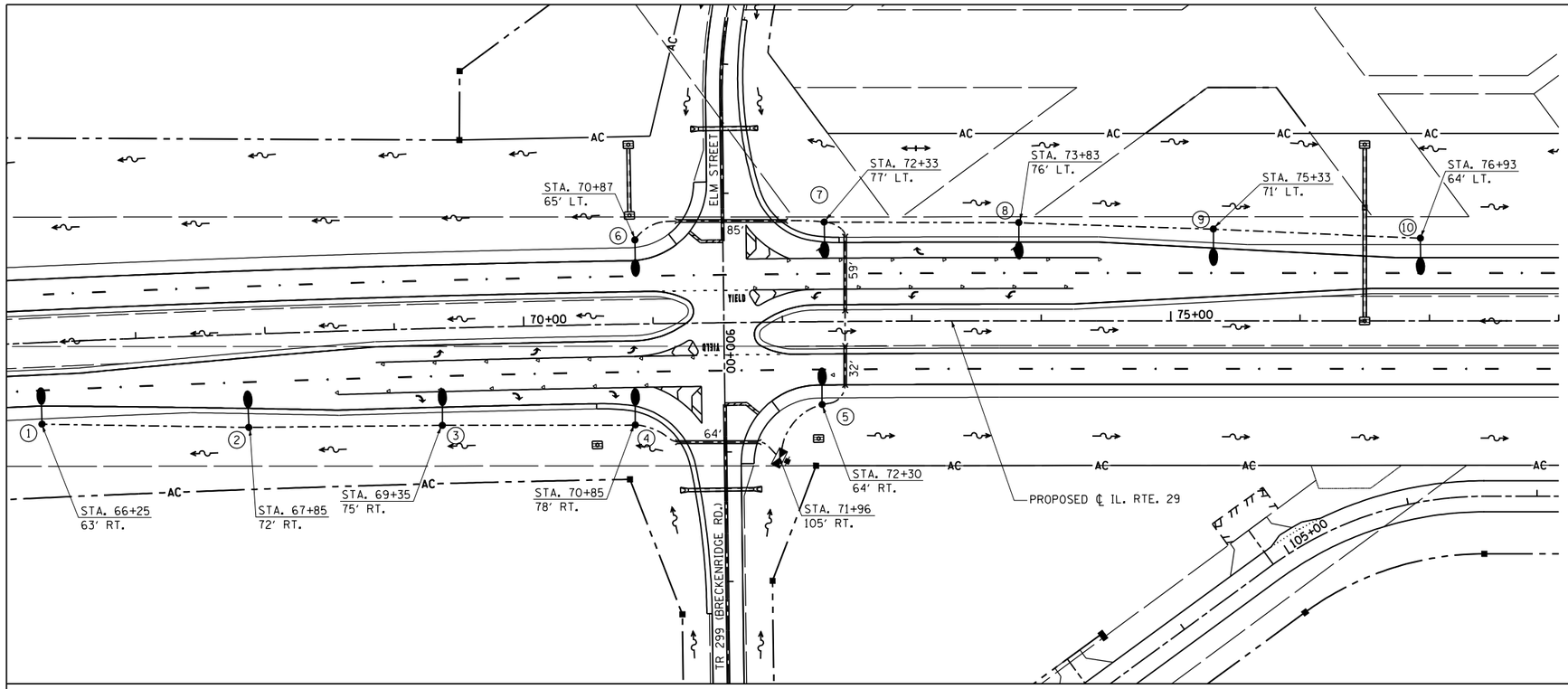
5/9/2012

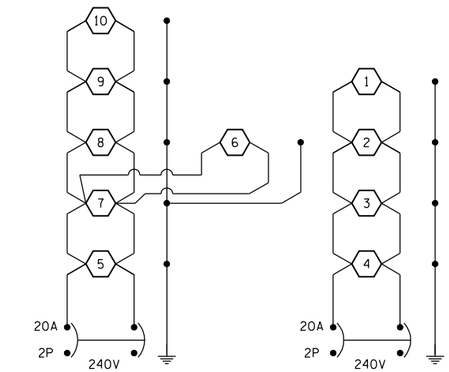
LIGHTING PLAN: IL. RTE. 29

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	448
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

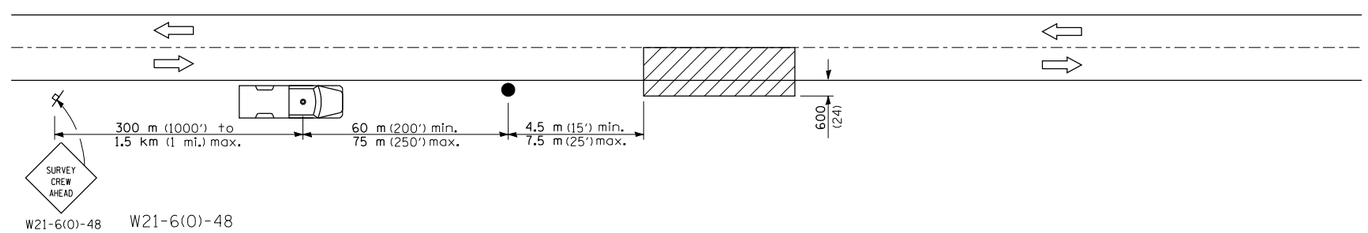
* SANGAMON AND CHRISTIAN





LEGEND

- LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM WITH LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT. 250 WATT, WITH BREAKAWAY COUPLINGS.
- ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE, 4 WIRE
- LIGHTING CONTROLLER, POLE MOUNTED, 240V, 60A
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND (XLP TYPE USE), 3/4″ DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2″ DIA. (SCHEDULE 80), UNLESS NOTED OTHERWISE



SYMBOLS

- Work area
- Sign on portable or permanent support
- Truck with flashing amber light and dual emergency flashers
- Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

All dimensions are in millimeters (inches) unless otherwise shown.

DETAIL FOR NIGHTTIME LIGHTING INSPECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN AND DETAILS
ILLINOIS RTE. 29 & TR 299

SCALE: 1″ = 50′ DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

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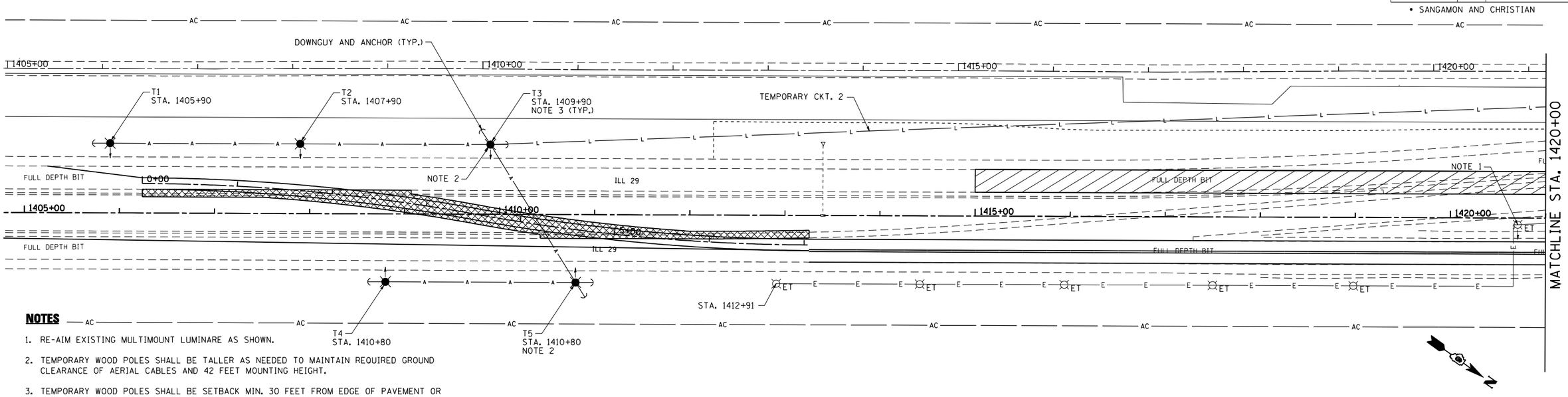
5/10/2012

CONTRACT NO. 72829

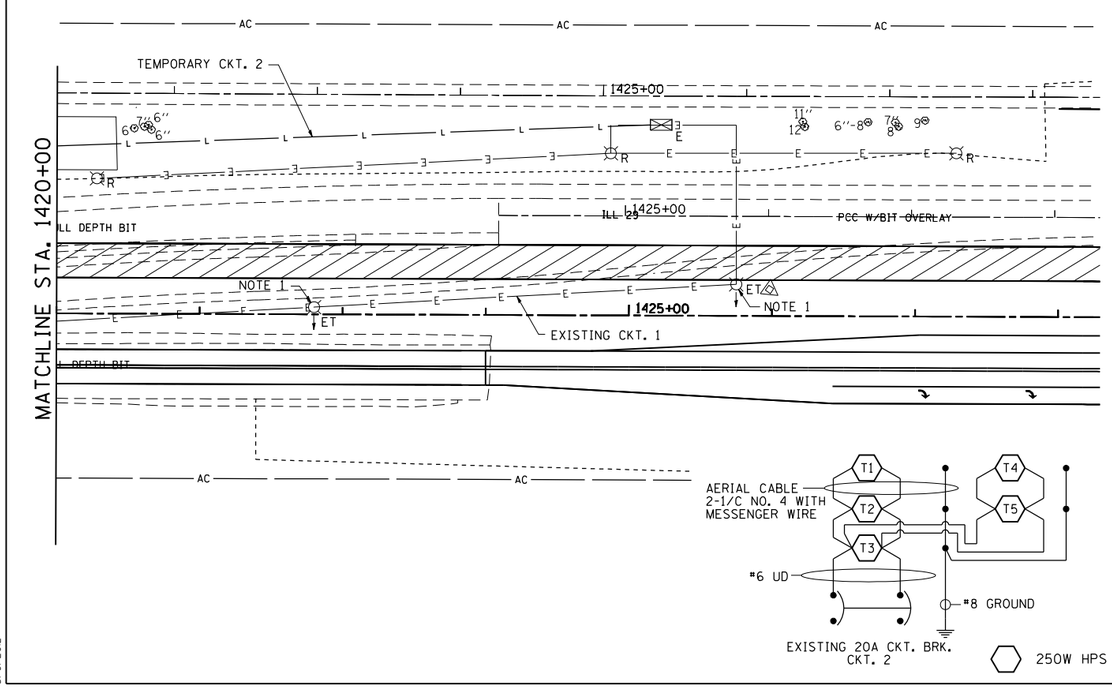
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	449
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



NOTES

1. RE-AIM EXISTING MULTIMOUNT LUMINARE AS SHOWN.
2. TEMPORARY WOOD POLES SHALL BE TALLER AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 42 FEET MOUNTING HEIGHT.
3. TEMPORARY WOOD POLES SHALL BE SETBACK MIN. 30 FEET FROM EDGE OF PAVEMENT OR 4 FOOT BEHIND THE GUARDRAIL OR BARRIER.
4. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.



ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – TEMPORARY LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24	FT
	Number Of Lanes	2	
	Median Width		FT
	IES Surface Classification		R3
	Q-Zero Value		.07
LIGHT POLE DATA:	Mounting Height	42	FT
	Mast Arm Length		FT
	Pole Set-Back From Edge Of Pavement	30	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	28000	
	IES Vertical Distribution	M	
	IES Control Of Distribution	NC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	200	FT
	Configuration	One Side	
	Luminaire Overhang Over Edge Of Pavement Lane	-30	FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.60	fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0	
LUMINANCE:	Average Luminance: (L_{Ave})	0.40	Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5	
	(L_{Max}/L_{Min})	6.0	
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})		

LEGEND

- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT USED AS TEMPORARY, AND THEN REMOVED
- EXISTING LIGHTING CONTROLLER
- TEMPORARY LIGHTING UNIT, 50′ WOOD POLE, CLASS 3 WITH 250W HPS MULTIMOUNT LUMINARE, 42′ MOUNTING HEIGHT, ARROW INDICATES LUMINARE AIMING DIRECTION
- —A— AERIAL CABLE, 2-1/C NO. 4 ALUMINUM WITH MESSENGER WIRE, UNLESS NOTED OTHERWISE
- —L— UNIT DUCT, 600V, 2-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1″ POLYETHYLENE
- —E— EXISTING UNIT DUCT

50′ 0 50 100′
SCALE: 1″ = 50′

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN
SOUTH CROSSOVER

SCALE: 1″ = 50′ DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

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5/9/2012

TEMPORARY LIGHTING PLAN – SOUTH CROSSOVER

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	450
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

LEGEND

TEMPORARY LIGHTING CONTROLLER

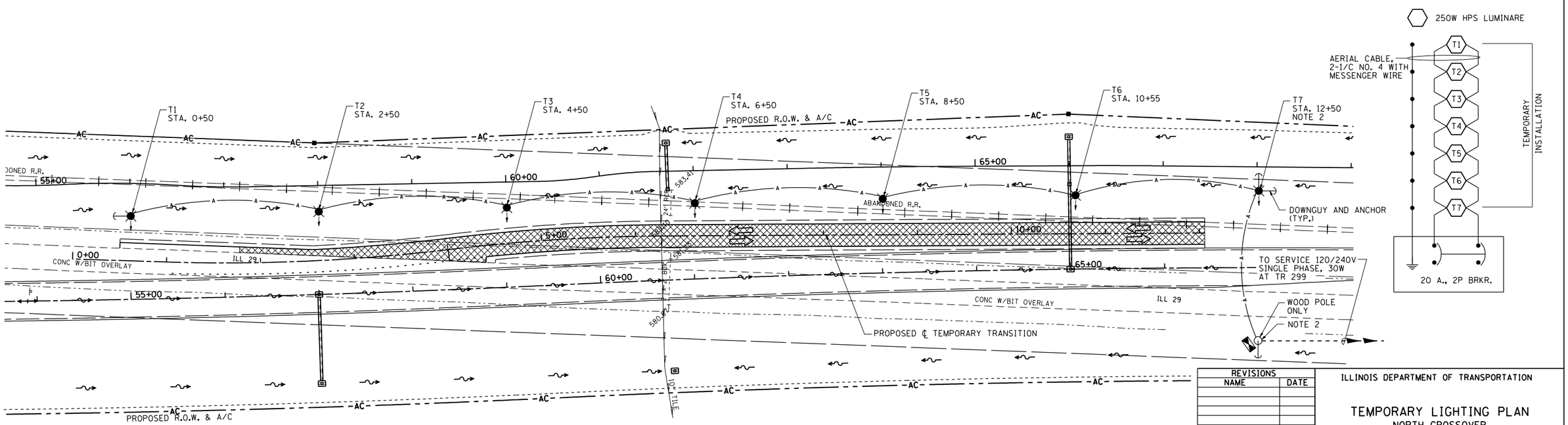
TEMPORARY LIGHTING UNIT, 50' WOOD POLE, CLASS 3 WITH 250W HPS MULTIMOUNT LUMINARE, 42' MOUNTING HEIGHT, ARROW INDICATES LUMINARE AIMING DIRECTION

—A— AERIAL CABLE, 2-1/C NO. 4 ALUMINUM WITH MESSENGER WIRE, UNLESS NOTED OTHERWISE

—L— UNIT DUCT, 600V, 2-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" POLYETHYLENE

NOTES

1. RE-AIM EXISTING MULTIMOUNT LUMINARE AS SHOWN.
2. TEMPORARY WOOD POLES SHALL BE TALLER AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 42 FEET MOUNTING HEIGHT.
3. TEMPORARY WOOD POLES SHALL BE SETBACK MIN. 30 FEET FROM EDGE OF PAVEMENT OR 4 FOOT BEHIND THE GUARDRAIL OR BARRIER.
4. ALL EXISTING TEMPORARY STEEL POLES, METAL SCREW IN FOUNDATIONS AND LUMINAIRES FOR THOSE STEEL POLES AND THE LUMINAIRES ON THE TEMPORARY WOOD POLES ARE TO REMAIN THE PROPERTY OF IDOT AND ARE TO BE STORED AT A LOCATION AS DIRECTED BY THE ENGINEER ALONG WITH ANY OTHER ITEMS AS DEEMED SALVAGABLE AS DETERMINED BY THE ENGINEER.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN
NORTH CROSSOVER

SCALE: 1" = 50'
DATE: 03/06/2012
DRAWN BY: IDOT
CHECKED BY: J.M.M.

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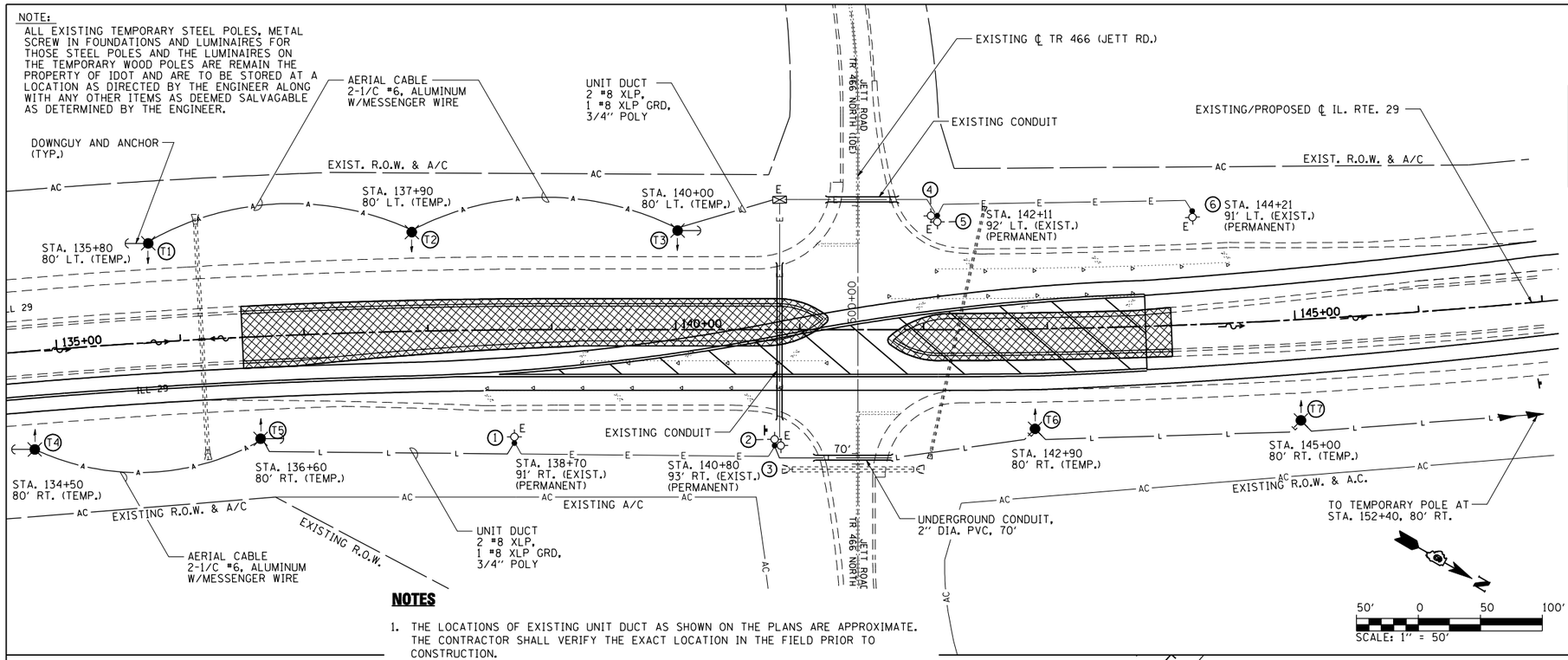
5/9/2012

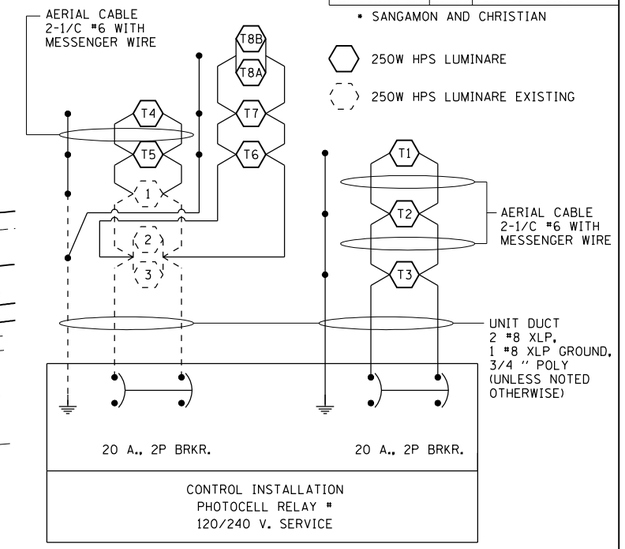
CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	451
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

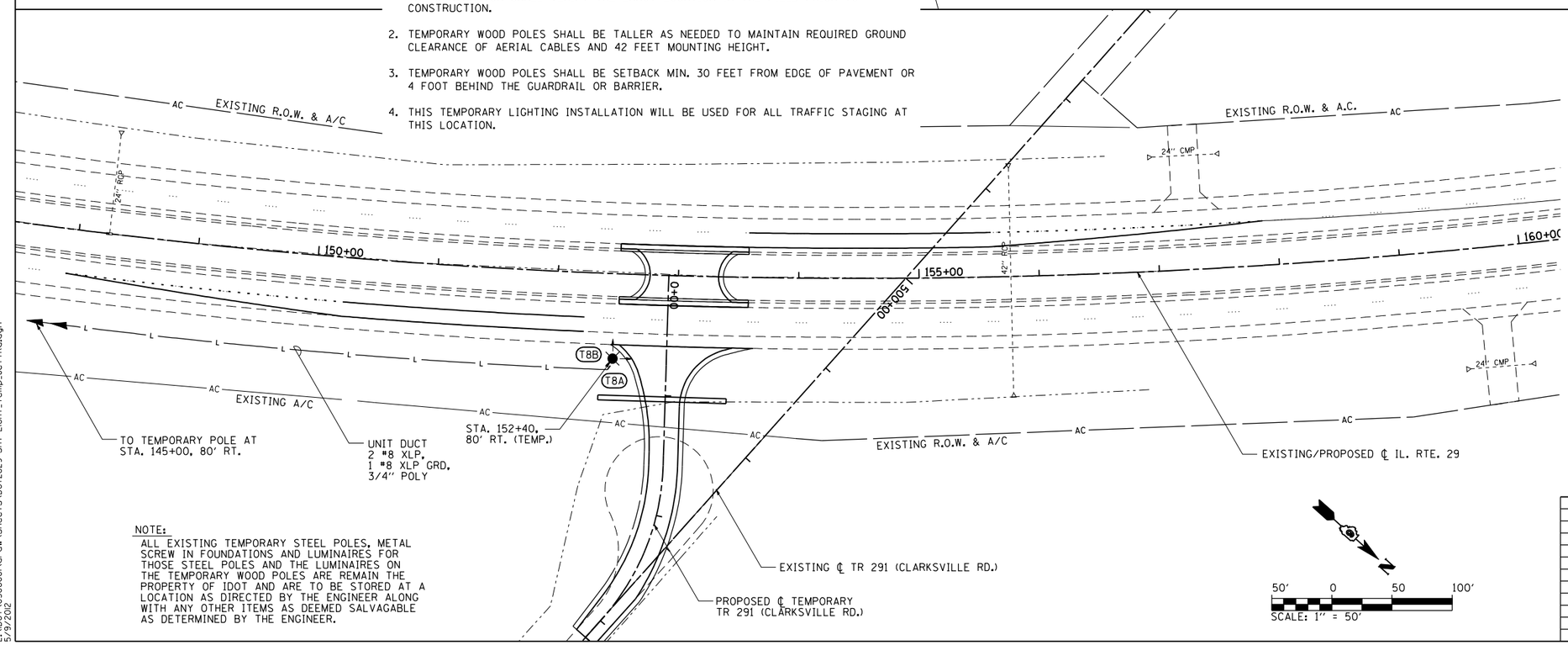
NOTE:
ALL EXISTING TEMPORARY STEEL POLES, METAL SCREW IN FOUNDATIONS AND LUMINAIRES FOR THOSE STEEL POLES AND THE LUMINAIRES ON THE TEMPORARY WOOD POLES ARE REMAIN THE PROPERTY OF IDOT AND ARE TO BE STORED AT A LOCATION AS DIRECTED BY THE ENGINEER ALONG WITH ANY OTHER ITEMS AS DEEMED SALVAGABLE AS DETERMINED BY THE ENGINEER.





NOTES

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. TEMPORARY WOOD POLES SHALL BE TALLER AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 42 FEET MOUNTING HEIGHT.
3. TEMPORARY WOOD POLES SHALL BE SETBACK MIN. 30 FEET FROM EDGE OF PAVEMENT OR 4 FOOT BEHIND THE GUARDRAIL OR BARRIER.
4. THIS TEMPORARY LIGHTING INSTALLATION WILL BE USED FOR ALL TRAFFIC STAGING AT THIS LOCATION.



LEGEND

—— L ——	UNIT DUCT, SIZE AS NOTED
═══	UNDERGROUND CONDUIT, 2" DIA. PVC
E	EXISTING 250W. HPS, MULTI-MOUNT LUMINAIRE, 45' MH STEEL POLE
E	EXISTING TWIN-250W., HPS, MULTI-MOUNT LUMINAIRE, 45' MH, STEEL POLE
E	EXISTING LIGHTING CONTROLLER PHOTOCELL RELAY
—— A ——	AERIAL CABLE, 2 1/C #6, WITH MESSENGER WIRE
—— E ——	EXISTING UNIT DUCT
	TEMPORARY LIGHTING UNIT, 50' WOOD POLE, CLASS 3 WITH SINGLE OR DOUBLE 250W HPS MULTIMOUNT LUMINARE, 42' MOUNTING HEIGHT, ARROW INDICATES LUMINARE AIMING DIRECTION

NOTE:
ALL EXISTING TEMPORARY STEEL POLES, METAL SCREW IN FOUNDATIONS AND LUMINAIRES FOR THOSE STEEL POLES AND THE LUMINAIRES ON THE TEMPORARY WOOD POLES ARE REMAIN THE PROPERTY OF IDOT AND ARE TO BE STORED AT A LOCATION AS DIRECTED BY THE ENGINEER ALONG WITH ANY OTHER ITEMS AS DEEMED SALVAGABLE AS DETERMINED BY THE ENGINEER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN

ILLINOIS RTE. 29 & TR 466 (JETT RD.)
ILLINOIS RTE. 29 & TR 291 (CLARKSVILLE RD.)

SCALE: B.J.D. DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

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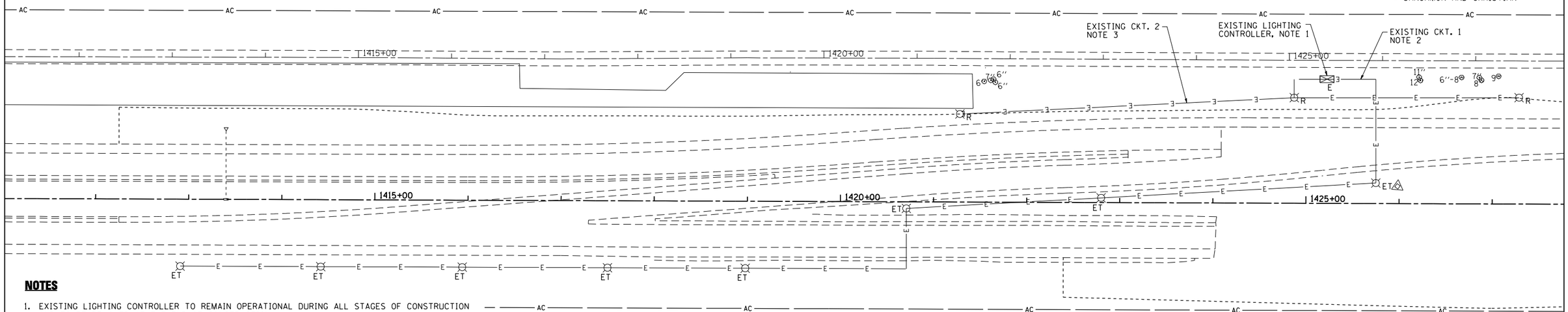
5/9/2012

TEMPORARY LIGHTING PLAN: IL RTE. 29

CONTRACT NO. 72829

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	452
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



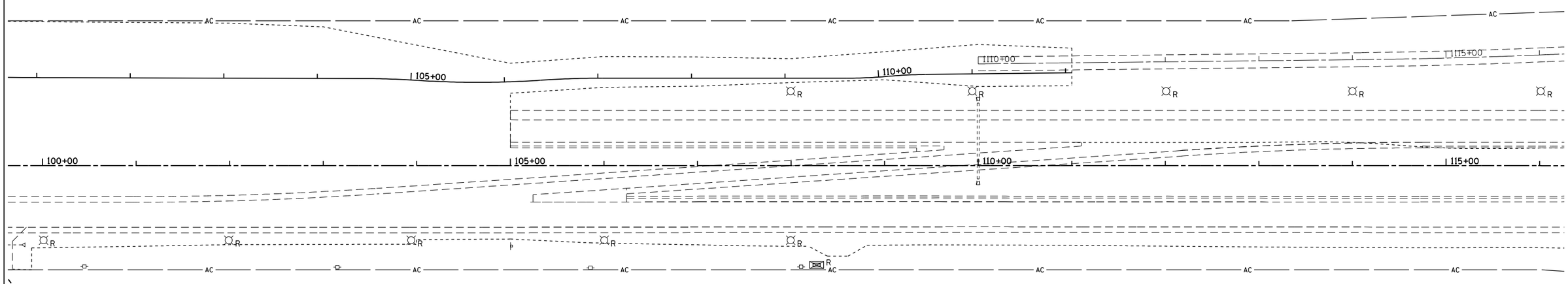
NOTES

1. EXISTING LIGHTING CONTROLLER TO REMAIN OPERATIONAL DURING ALL STAGES OF CONSTRUCTION AND TO BE REMOVED AT THE END OF CONSTRUCTION.
2. EXISTING CKT. NO. 1 TO REMAIN ENERGIZED DURING MOT STAGES 1 & 2 AND TO BE MODIFIED AS SHOWN ON TEMPORARY LIGHTING PLANS AT THE BEGINNING OF STAGE 3.
3. EXISTING CKT. NO. 2 TO REMAIN ENERGIZED DURING MOT STAGES 1 & 2 AND TO BE REMOVED AT THE BEGINNING OF STAGE 3.
4. THE LOCATIONS OF EXISTING LIGHT POLES AND EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

LEGEND

- R — EXISTING LIGHTING UNIT TO BE REMOVED
- ET — EXISTING LIGHTING UNIT USED AS TEMPORARY, AND THEN REMOVED
- E — EXISTING LIGHTING CONTROLLER

50' 0 50 100'
SCALE: 1" = 50'



NOTES

1. THE LOCATIONS OF EXISTING LIGHT POLES AND CONTROLLER AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

LEGEND

- R — EXISTING LIGHTING UNIT TO BE REMOVED
- R — EXISTING LIGHTING CONTROLLER TO BE REMOVED

50' 0 50 100'
SCALE: 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLAN
SOUTH CROSSOVER
NORTH CROSSOVER

SCALE: 1" = 50' DRAWN BY: IDOT
DATE: 03/06/2012 CHECKED BY: J.M.M.

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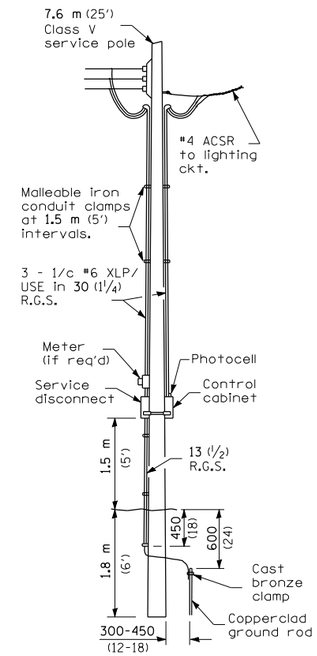
5/9/2012

EXISTING LIGHTING REMOVAL PLAN – NORTH AND SOUTH CROSSOVERS

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	453
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



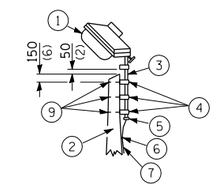
SERVICE INSTALLATION

NOTE:

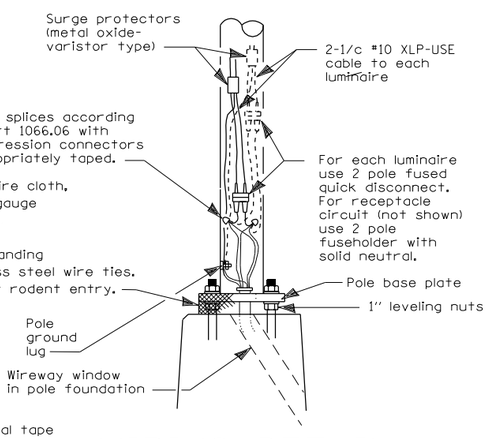
Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.

Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.

Connect luminaire equipment ground to ACSR messenger.

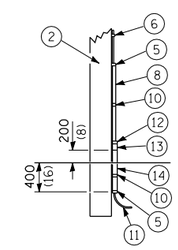


1. Luminaire 250w HPS
2. Wood pole, class 3 or better
3. 63 (2½) Galv. steel conduit
4. Single offset pole band
5. Conduit bushing
6. Cable clamps on 600 (24) centers
7. 2/c #10 Type USE cable
8. 25 (1) Galv. steel conduit 3.0 m (10') in length
9. 16 (⅝) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
10. Conduit clamps on 900 (36) centers
11. Electric cable assembly in trench or existing unit duct, as applicable
12. Threaded reducer
13. "C" Condulet, threaded
14. 40 (1½) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



WIRING DETAIL

NO SCALE



POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

All dimensions are in millimeters (inches) unless otherwise shown.

GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY ROADWAY LIGHTING PLAN

SCALE: 1" = 50' DRAWN BY: IDOT

DATE: 03/06/2012 CHECKED BY: J.M.M.

Default
L:\D01\030660\drawsheets\0672829-sht-LIGHT_Temp_Detail.dgn
5/9/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	454
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

Sheet 1 of 3 Sheets

Bench Mark:
Sta. 1484+96.52±, 248.25'± lt. Set R.R. spike in center of County Hwy. 21 @ 0.50 mile East of Il. Rte. 29 & Franklin intersection.
Elev. = 592.30

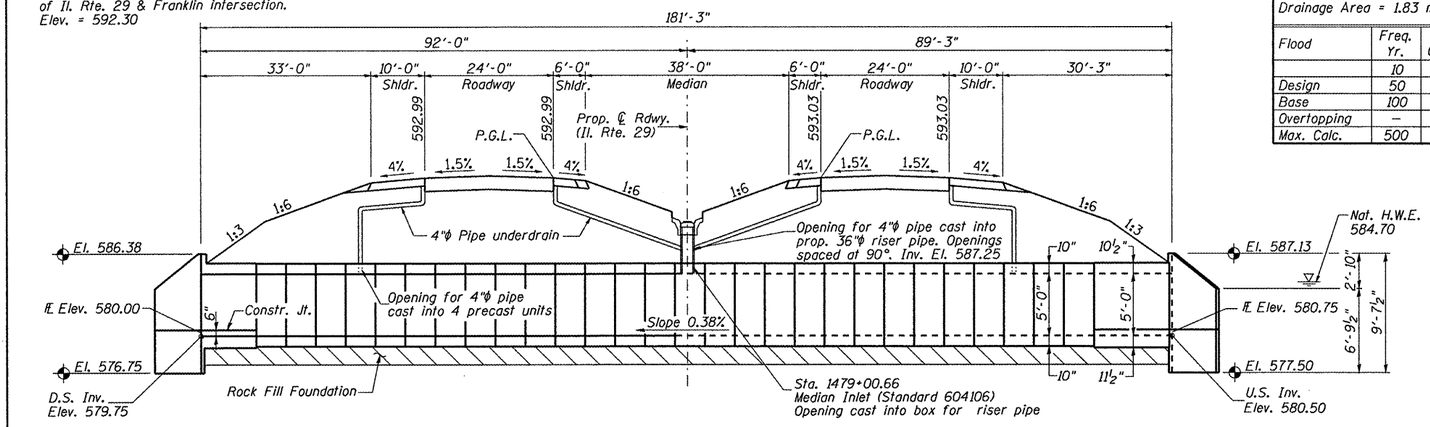
Existing Structure:
No existing structure

Proposed Structure:
10' x 5' Double precast box culvert with cast-in-place end sections.

WATERWAY INFORMATION

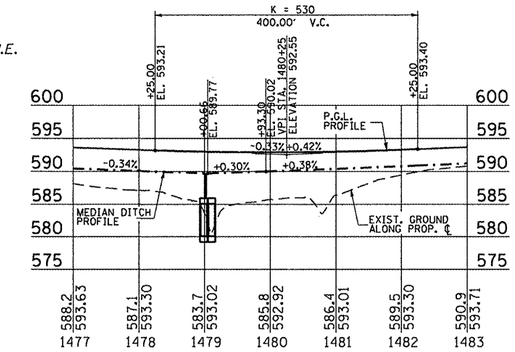
Drainage Area = 1.83 mi. Ex. Low Grade Elev. = ft. @ Sta.
Pr. Low Grade Elev. = 593.10 ft. @ Sta. 1479+05

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	290		71	583.78		584.42		0.64
Design	50	481		91	584.70		585.49		0.79
Base	100	568		100	585.22		586.38		1.16
Overtopping	–	–	–	–	–	–	–	–	–
Max. Calc.	500	781		100	586.99		589.42		2.43

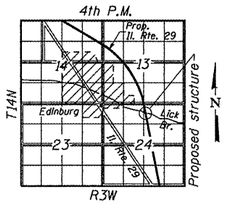


HALF LONG. SECTION

HALF ELEVATION



ROADWAY PROFILE



LOCATION SKETCH

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

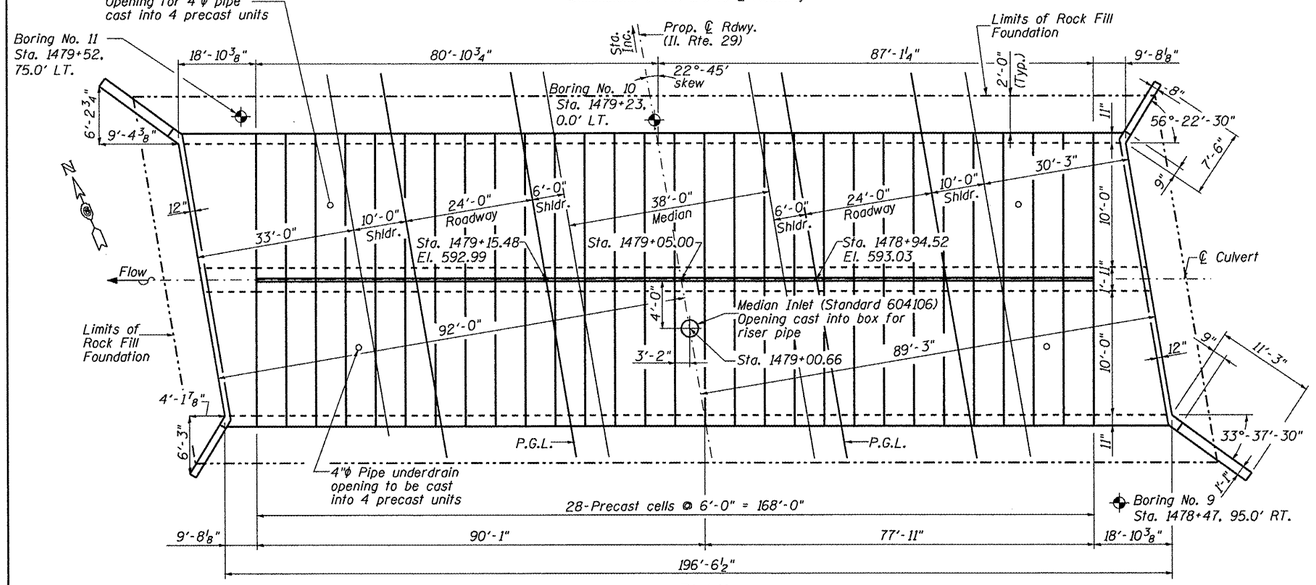
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

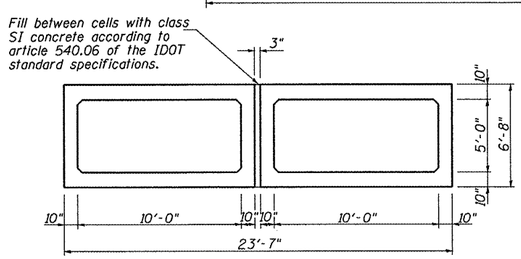
FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi (W.W.F.)

BILL OF MATERIAL

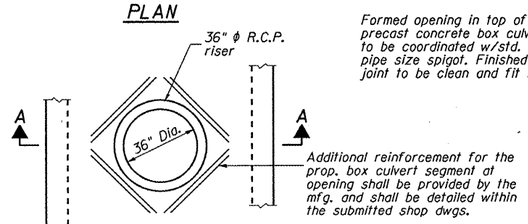
Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	187
Filter Fabric	Sq. Yd.	809
Precast Concrete Box Culvert 10' X 5'	Foot	336
Concrete Box Culverts	Cu. Yd.	86.4
Reinforcement Bars	Pound	13,670
Rock Fill Foundation	Ton	781
Granular Culvert Backfill	Cu. Yd.	679



PLAN

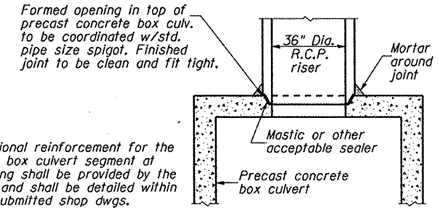


SECTION THRU PRECAST BARREL



PLAN

RISER PIPE CONNECTION TO PRECAST BOX CULVERT



SECTION A-A

Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
5087
STATE OF ILLINOIS

03-28-2012

NOTES:

1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 10' x 5'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
GENERAL PLAN
PROPOSED STRUCTURE NO. 011-2514
STA. 1479+05.00

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

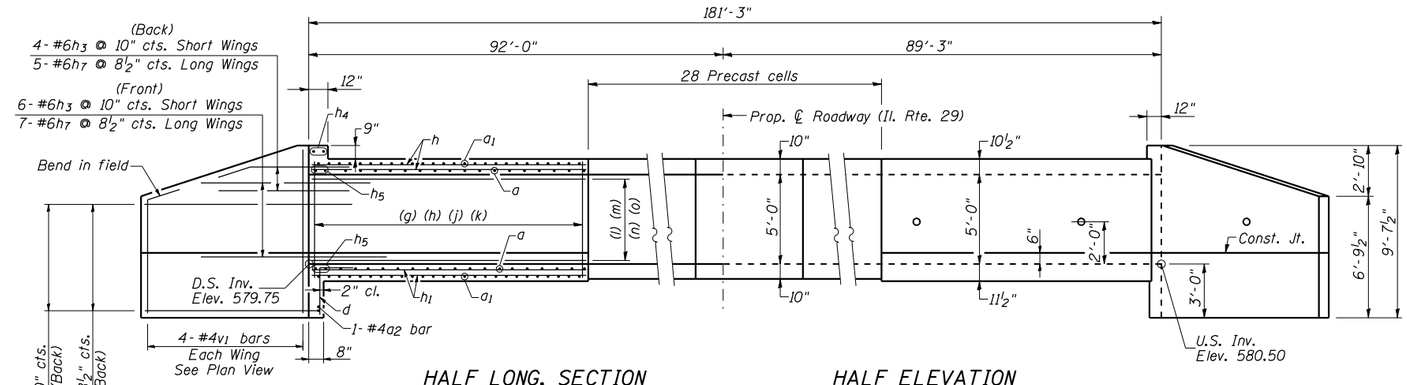
GPE
L:\IDOT\030660\draw\sheets\Structures\LICK BRANCH CULV.01.dgn
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	455
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

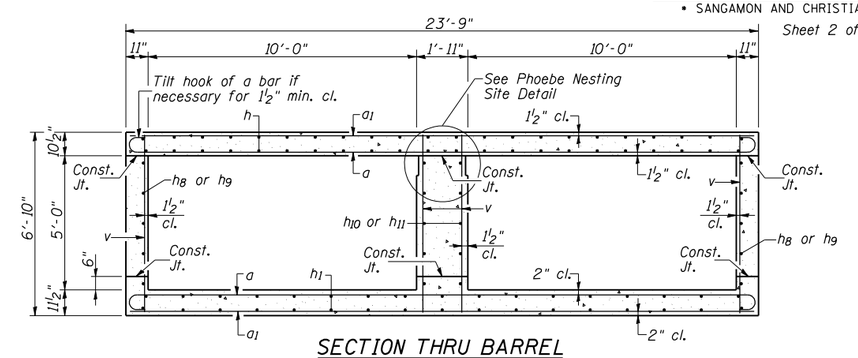
• SANGAMON AND CHRISTIAN

Sheet 2 of 3 Sheets



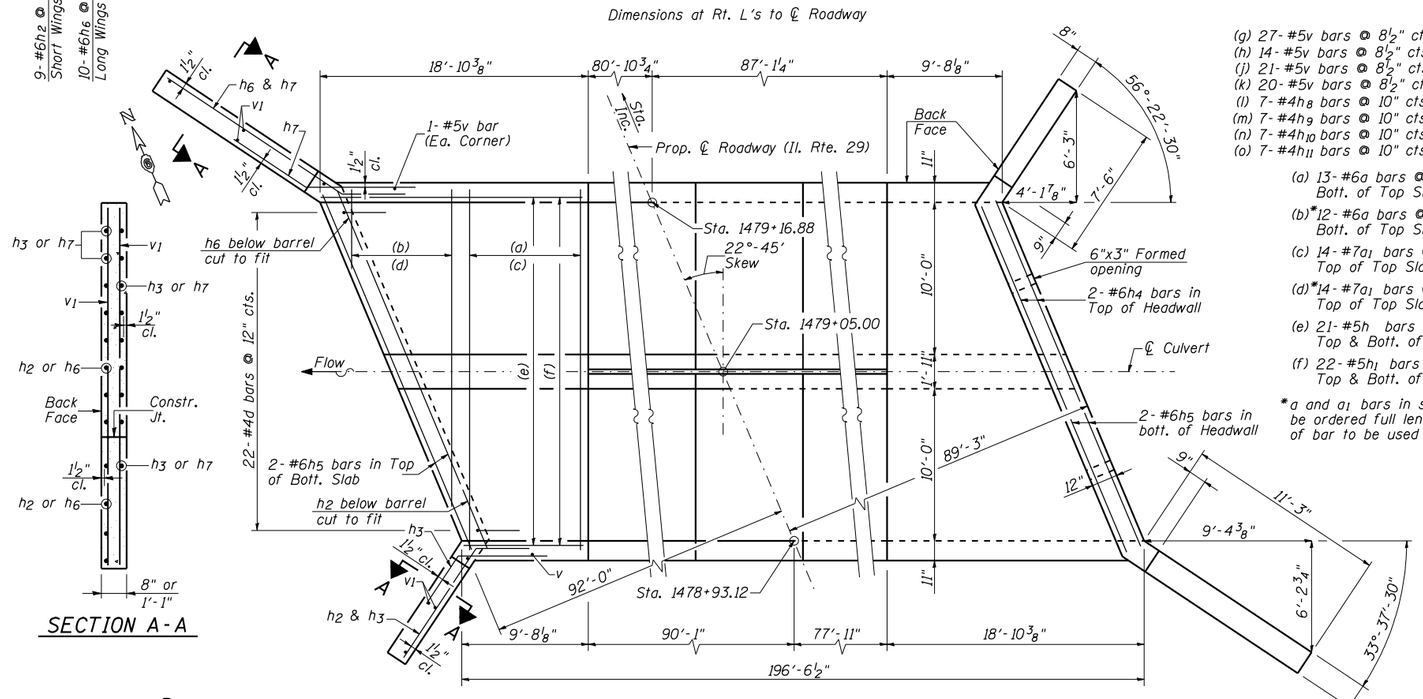
HALF LONG. SECTION

HALF ELEVATION



SECTION THRU BARREL

Dimensions at Rt. L's to ℄ Roadway



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

(g) 27-#5v bars @ 8½" cts. Long Exterior Wall
(h) 14-#5v bars @ 8½" cts. Short Exterior Wall
(j) 21-#5v bars @ 8½" cts. Longer Face of Interior Wall
(k) 20-#5v bars @ 8½" cts. Shorter Face of Interior Wall
(l) 7-#4h8 bars @ 10" cts. Long Exterior Wall
(m) 7-#4h9 bars @ 10" cts. Short Exterior Wall
(n) 7-#4h10 bars @ 10" cts. Longer Face of Interior Wall
(o) 7-#4h11 bars @ 10" cts. Shorter Face of Interior Wall

(a) 13-#6a bars @ 9" cts.
Bott. of Top Slab & Top of Bott. slab

(b)*12-#6a bars @ 9" cts.
Bott. of Top Slab & Top of Bott. slab

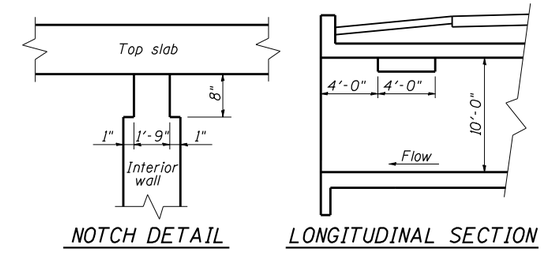
(c) 14-#7a1 bars @ 8" cts.
Top of Top Slab & Bott. of Bott. slab

(d)*14-#7a1 bars @ 8" cts.
Top of Top Slab & Bott. of Bott. slab

(e) 21-#5h bars @ 1'-2" cts.
Top & Bott. of Top Slab

(f) 22-#5h1 bars @ 1'-1" cts.
Top & Bott. of Bott. Slab

*a and a1 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



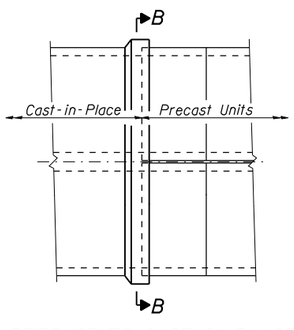
NOTCH DETAIL

LONGITUDINAL SECTION

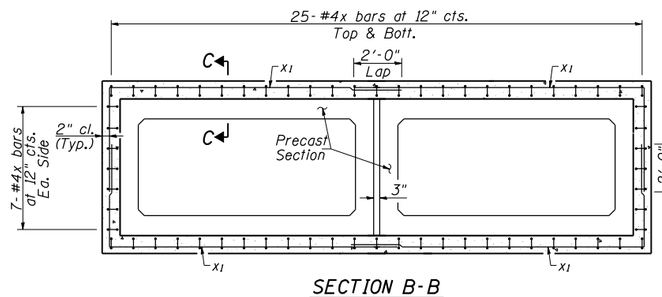
PHOEBE NESTING SITE DETAIL

(Near Downstream End)

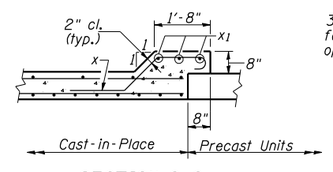
Note:
Notch formed by rough-finished board attached to and removed with formwork.



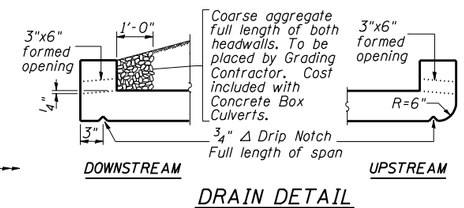
PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



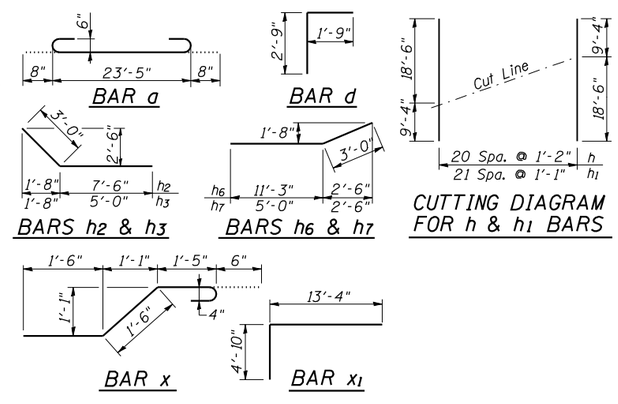
SECTION B-B



SECTION C-C



DRAIN DETAIL



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	76	#6	24'-9"	
a1	84	#7	23'-5"	
a2	2	#4	24'-0"	
d	44	#4	4'-6"	
h	42	#5	27'-10"	
h1	44	#5	27'-10"	
h2	18	#6	10'-6"	
h3	20	#6	8'-0"	
h4	4	#6	24'-1"	
h5	8	#6	25'-3"	
h6	20	#6	14'-3"	
h7	24	#6	8'-0"	
h8	14	#4	18'-6"	
h9	14	#4	9'-4"	
h10	14	#4	14'-4"	
h11	14	#4	13'-6"	
v	168	#5	6'-6"	
v1	16	#4	9'-3"	
x	128	#4	4'-11"	
x1	24	#4	18'-2"	
Concrete Box Culverts			Cu. Yd.	86.4
Reinforcement Bars			Pound	13,670

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
PROPOSED STRUCTURE NO. 011-2514
STA. 1479+05.00

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

TSL
L:\IDOT\030660\Draw\sheets\Structures\LICK BRANCH CULV.02.dgn
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	456
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

Sheet 3 of 3 Sheets

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 3/10/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over Lick Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 24, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7051
Station 1479+05

BORING NO. 9
Station 1478+47
Offset 75.0ft Rt
Ground Surface Elev. 585.9 ft

Surface Water Elev. 584.9 ft
Stream Bed Elev. 583.8 ft

Groundwater Elev.:
▽ First Encounter 576.9 ft
▽ Upon Completion Dry ft
▼ After 24 Hrs. 581.4 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray Moist SILTY CLAY LOAM CLASSIFICATION 9-1			1		
			3 4	1.4 B	22
		-5	1		
			2 3	1.7 B	23
Very Moist			0		
	577.90		1 1	0.2 B	36
Gray and Brown Moist LOAM (TILL) Ref Classification 8-5 Free Water					
		-10	1		
			4 9	3.4 B	12
Gray Dry LOAM (TILL) Sample Broken			3		
			18 25	7 E	8
		-15	6		
			24 35	9.5 E	7
		-20	7		
Gray and Brown Moist LOAM (TILL) Ref Classification 8-5 Free Water (continued)			30 41	10 S-13	8
		-25	12		
			75 25 /1"	10 S-12	8
Gray and Brown Dry LOAM (TILL) Sample Broken	555.90	-30	11		
			31 39	10 E	9
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 3/10/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over Lick Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 24, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7051
Station 1479+05

BORING NO. 10
Station 1479+23
Offset 0.0ft cL
Ground Surface Elev. 585.9 ft

Surface Water Elev. 584.9 ft
Stream Bed Elev. 583.8 ft

Groundwater Elev.:
▽ First Encounter No Encounter ft
▽ Upon Completion 574.4 ft
▼ After 24 Hrs. 583.9 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray Moist SILTY CLAY LOAM Ref Classification 9-1			1		
			2 3	1.2 B	27
		-5			
			0		
			2 2	0.7 B	25
Brown Moist Weathered LOAM (TILL) Ref Classification 8-5	578.90		0		
			1 2	1 S-9	27
Gray and Brown Dry LOAM (TILL) Sample Broken		-10			
			9 26 26	8.5 E	8
Gray Dry LOAM (TILL)			9		
			25 36	10 E	7
		-15			
			1 28 39	10 E	8
		-20			
	565.40		8		
			22 27	9.6 S-11	8
		-25			
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 3/11/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over Lick Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 24, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7051
Station 1479+05

BORING NO. 11
Station 1479+52
Offset 75.0ft Lt
Ground Surface Elev. 583.8 ft

Surface Water Elev. 584.9 ft
Stream Bed Elev. 583.8 ft

Groundwater Elev.:
▽ First Encounter No Encounter ft
▽ Upon Completion Dry ft
▼ After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown Very Moist SILTY CLAY LOAM Poor Recovery Ref Classification 9-1			0		
			1 2	0.5 P	27
		-5	0		
			1 3	0.7 B	26
Light Brown Moist Very Weathered LOAM (TILL) Ref Classification 8-5	577.80		0		
			0 2	1.5 P	16
Light Brownish Gray Dry LOAM (TILL)	575.80	-10	7		
			35 36	10 E	6
Gray Dry LOAM (TILL) w/ 1/2" Limestone Gravel Clasts			7		
			32 41	10 E	7
		-15	5		
			22 28	8.3 E	7
			1		
			20 38	9.7 E	7
		-20	10		
Light Brownish Gray Dry LOAM (TILL) (continued)			25 46	10 E	7
	558.80	-25	3		
			26 60	10 E	8
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORINGS
PROPOSED STRUCTURE NO. 011-2514

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

GPE
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3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	457
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

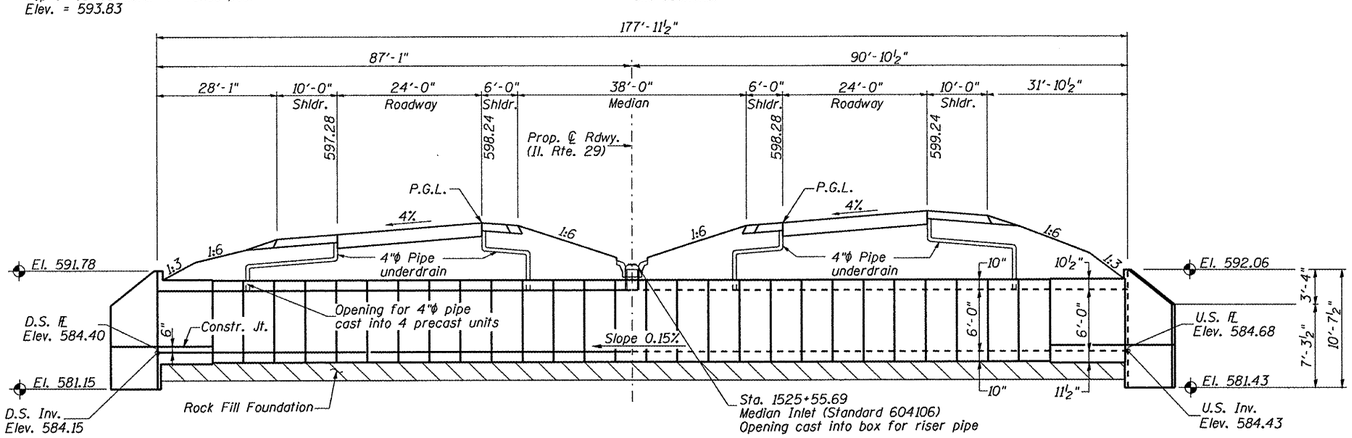
* SANGAMON AND CHRISTIAN

Sheet 1 of 4 Sheets

Bench Mark:
Sta. 1524+00.00±, Centerline (P.O.C.)
Top of buried metal "T" fence post
Elev. = 593.83

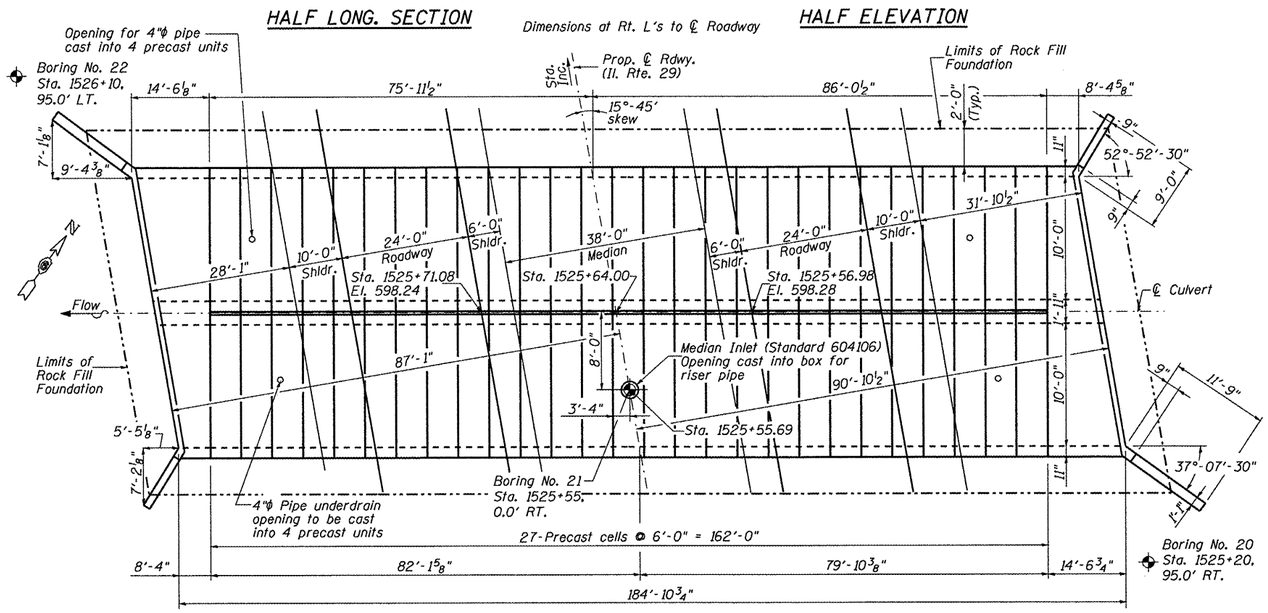
Existing Structure:
No existing structure

Proposed Structure:
10' x 6' Double precast box culvert with cast-in-place end sections.

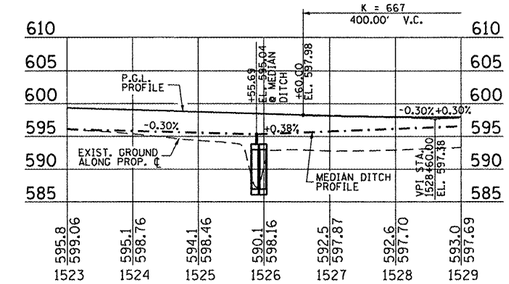


HALF LONG. SECTION

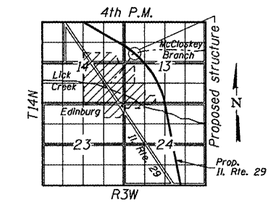
HALF ELEVATION



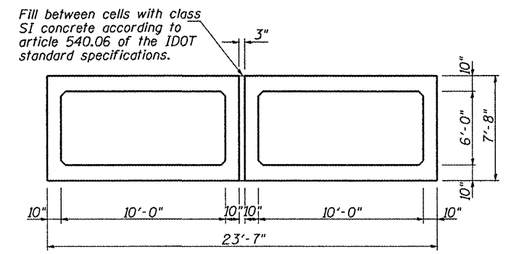
PLAN



ROADWAY PROFILE



LOCATION SKETCH



SECTION THRU PRECAST BARREL

Exp. 11-30-2012
LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
5087
STATE OF ILLINOIS
03-28-2012

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi (W.W.F.)

BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	201
Filter Fabric	Sq. Yd.	836
Precast Concrete Box Culvert 10' X 6'	Foot	324
Concrete Box Culverts	Cu. Yd.	77.0
Reinforcement Bars	Pound	12,210
Rock Fill Foundation	Ton	737
Granular Culvert Backfill	Cu. Yd.	747

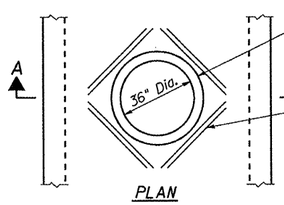
NOTES:

1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 10' x 6'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.

WATERWAY INFORMATION

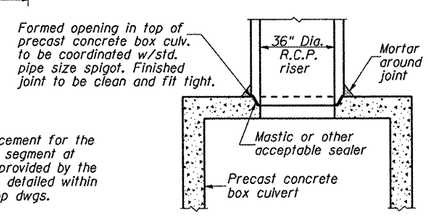
Drainage Area = 2.31 mi.
Ex. Low Grade Elev. = ft. @ Sta.
Pr. Low Grade Elev. = 598.63 ft. @ Sta. 1528+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	305		117	592.60		592.67		0.07
Design	50	482		120	593.09		593.50		0.41
Base	100	560		120	593.22		593.85		0.63
Overtopping	–	–	–	–	–	–	–	–	–
Max. Calc.	500	745		120	593.49		594.61		1.12



PLAN

RISER PIPE CONNECTION TO PRECAST BOX CULVERT



SECTION A-A

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
GENERAL PLAN
PROPOSED STRUCTURE NO. 011-2515
STA. 1525+64.00

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: WLB

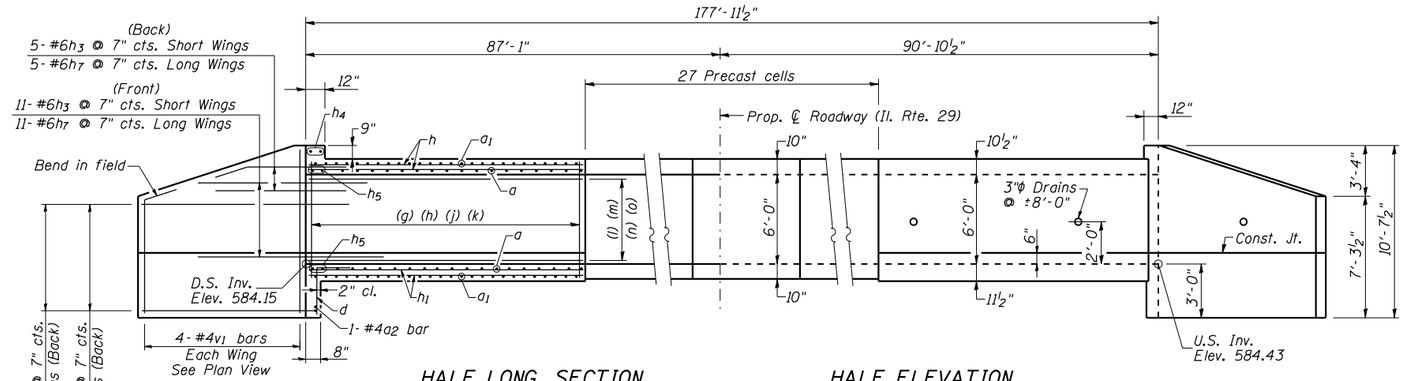
GPE
L:\1007\030660\draw\sheets\Structures\McCLOSKEY BR CULV.DGN
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	458
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

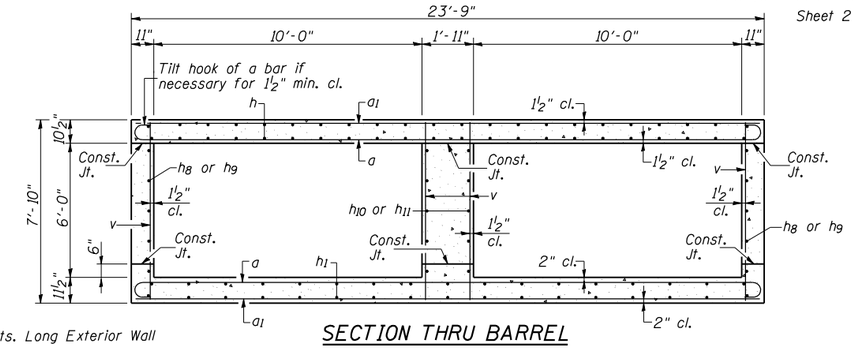
• SANGAMON AND CHRISTIAN

Sheet 2 of 4 Sheets



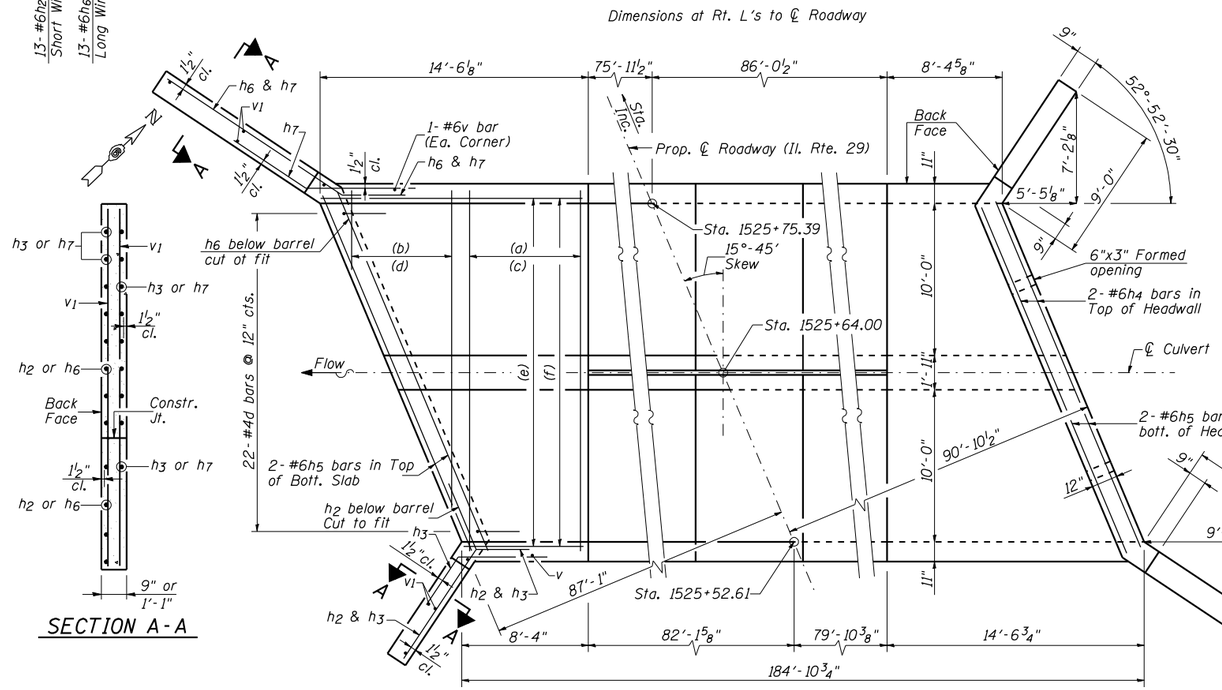
HALF LONG. SECTION

HALF ELEVATION



SECTION THRU BARREL

Dimensions at Rt. L's to ℄ Roadway



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

(g) 21-#5v bars @ 8½" cts. Long Exterior Wall
(h) 13-#5v bars @ 8½" cts. Short Exterior Wall
(j) 17-#5v bars @ 8½" cts. Longer Face of Interior Wall
(k) 17-#5v bars @ 8½" cts. Shorter Face of Interior Wall
(l) 8-#4h8 bars @ 10" cts. Long Exterior Wall
(m) 8-#4h9 bars @ 10" cts. Short Exterior Wall
(n) 8-#4h10 bars @ 10" cts. Longer Face of Interior Wall
(o) 8-#4h11 bars @ 10" cts. Shorter Face of Interior Wall

(a) 14-#5a bars @ 7" cts.
Bott. of Top Slab & Top of Bott. slab

(b)*11-#5a bars @ 7" cts.
Bott. of Top Slab & Top of Bott. slab

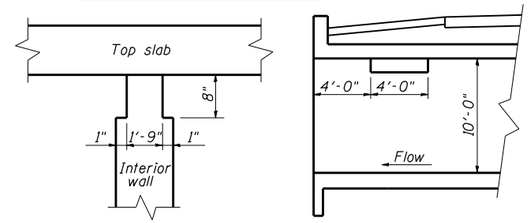
(c) 13-#7a1 bars @ 8" cts.
Top of Top Slab & Bott. of Bott. slab

(d)*9-#7a1 bars @ 8" cts.
Top of Top Slab & Bott. of Bott. slab

(e) 21-#5h bars @ 1'-2" cts.
Top & Bott. of Top Slab

(f) 23-#5h1 bars @ 1'-1" cts.
Top & Bott. of Bott. Slab

*a and a1 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



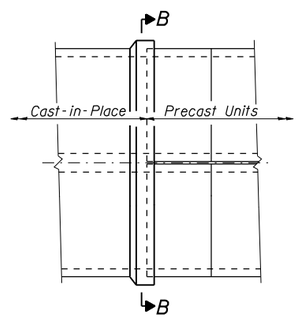
NOTCH DETAIL

LONGITUDINAL SECTION

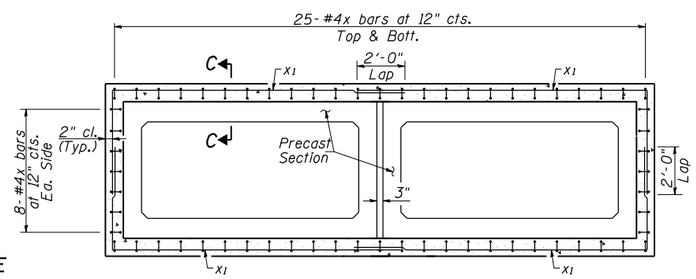
PHOEBE NESTING SITE DETAIL

(Near Downstream End)

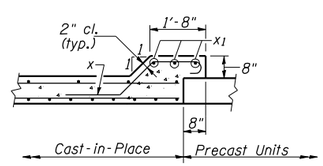
Note:
Notch formed by rough-finished board attached to and removed with formwork.



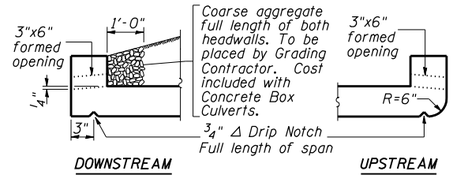
PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



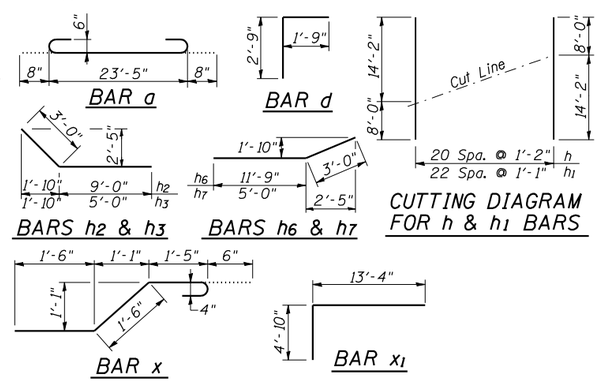
SECTION B-B



SECTION C-C



DRAIN DETAIL



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	78	#5	24'-9"	
a1	70	#7	23'-5"	
a2	2	#4	24'-0"	
d	44	#4	4'-6"	
h	42	#5	22'-2"	
h1	46	#5	22'-2"	
h2	26	#6	12'-0"	
h3	32	#6	8'-0"	
h4	4	#6	23'-3"	
h5	8	#6	24'-3"	
h6	26	#6	14'-9"	
h7	32	#6	8'-0"	
h8	16	#4	14'-2"	
h9	16	#4	8'-0"	
h10	16	#4	10'-10"	
h11	16	#4	11'-4"	
v	140	#5	7'-6"	
v1	16	#4	10'-3"	
x	132	#4	4'-11"	
x1	24	#4	18'-2"	
Concrete Box Culverts			Cu. Yd.	77.0
Reinforcement Bars			Pound	12,210

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
PROPOSED STRUCTURE NO. 011-2515
STA. 1525+64.00

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

TSL
L:\IDOT\030660\drow\sheets\Structures\McCLOSKEY BR CULV.02.DGN
3/6/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	459
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

Sheet 3 of 4 Sheets

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 3/8/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over McClosky Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 13, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7052
Station 1525-92

BORING NO. 20
Station 1525+20
Offset 92.0ft Rt
Ground Surface Elev. 593.8 ft

Surface Water Elev. 587.1 ft
Stream Bed Elev. 587.1 ft

Groundwater Elev.:
First Encounter No Encounter ft
Upon Completion Washed ft
After 24 Hrs. 590.8 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray Moist SILTY CLAY LOAM Ref Classification 23-1			1		
			3	1.2	31
			3	B	
Brown and Gray		-5	1		
	588.30		2	1.4	44
Brown and Light Gray Moist SILT Ref Classification 23-2			3	B	
			1		
	585.80		2	0.5	26
Light Brown and Gray Moist SILTY CLAY LOAM Ref Classification 29-3			2	B	
		-10	1		
			2	0.4	25
			1	B	
Very Moist			0		
	580.80		1	0.2	32
Light Brown and Light Gray Very Moist Weathered CLAY LOAM (Till) Ref Classification 22-1			0	B	
		-15	0		
	578.30		1	0.5	22
Gray Med to Coarse Clean Sand			2	B	
			2		
	575.80		11		
Gray Moist CLAY LOAM (Till) Ref Classification 22-2 Washed			13		
		-20	3		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Gray Moist CLAY LOAM (Till) Ref Classification 22-2 Washed (continued)			3	3.3	12
			7	B	
		-25	5		
			16	9.6	9
			24	S-12	
			8		
			17	7.6	9
			19	S-13	
		-30	3		
			19	9.5	8
			23	S-13	
	561.30		3		
Gray and Brown Moist SILT LOAM (Till) Ref Classification 22-3			13	8	9
			9	S-12	
		-35	3		
			18	6.8	10
			24	S-10	
	553.80	-40	6		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name \LOGS\GINT FILES\IL5 SANGAMON-CHRISTIAN\84-12&13 BRIDGES SECTION.GPJ Date Printed 1/26/09
Lattitude 39 Deg 35.503 N Longitude 89 Deg 22.349 W Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 3/8/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over McClosky Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 13, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7052
Station 1525-92

BORING NO. 20
Station 1525+20
Offset 92.0ft Rt
Ground Surface Elev. 593.8 ft

Surface Water Elev. 587.1 ft
Stream Bed Elev. 587.1 ft

Groundwater Elev.:
First Encounter No Encounter ft
Upon Completion Washed ft
After 24 Hrs. 590.8 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
			16	8.3	9
			21	S-10	
		-45			
		-50			
		-55			
		-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name \LOGS\GINT FILES\IL5 SANGAMON-CHRISTIAN\84-12&13 BRIDGES SECTION.GPJ Date Printed 1/26/09
Lattitude 39 Deg 35.503 N Longitude 89 Deg 22.349 W Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 3/4/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over McClosky Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 13, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7052
Station 1525+92

BORING NO. 21
Station 1525+65
Offset 0.0ft CL
Ground Surface Elev. 593.7 ft

Surface Water Elev. 587.1 ft
Stream Bed Elev. 587.1 ft

Groundwater Elev.:
First Encounter 577.2 ft
Upon Completion Washed ft
After 5 Days Hrs. 589.7 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray Moist SILTY CLAY Ref Classification 23-1			1		
			2	1.4	29
			4	B	
Brown and Gray		-5	1		
	588.20		2	1.2	27
Brown and Light Gray Moist SILT Ref Classification 23-2			3	B	
			0		
	585.70		1	0.5	29
Brown and Gray Moist SILTY CLAY LOAM Ref Classification 29-3			2	B	
		-10	0		
			2	0.6	25
	582.70		1	B	
Brown and Gray Moist Weathered CLAY LOAM (Till) Ref Classification 22-1			0		
			1	0.7	27
			2	B	
		-15	1		
	578.20		1	1.0	20
Gray Med to Coarse Sand w/ some Pea Gravel Free Water			2	B	
			0		
	575.70		1		
Gray Moist CLAY LOAM (Till) Ref Classification 22-2 Washed			3		
		-20	2		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Gray Moist CLAY LOAM (Till) Ref Classification 22-2 Washed (continued)			3	3.8	10
			8	B	
	568.70	-25	3		
			18	8.1	9
			24	S-14	
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name \LOGS\GINT FILES\IL5 SANGAMON-CHRISTIAN\84-12&13 BRIDGES SECTION.GPJ Date Printed 1/26/09
Lattitude 39 Deg 35.503 N Longitude 89 Deg 22.349 W Datum NAD83 Job Number

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORINGS
PROPOSED STRUCTURE NO. 011-2515

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

GPE
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3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	460
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

Sheet 4 of 4 Sheets

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 3/4/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over McClosky Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 13, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7052
Station 1525+92

BORING NO. 22
Station 1526+10
Offset 95.0ft Lt
Ground Surface Elev. 591.9 ft

Surface Water Elev. 587.1 ft
Stream Bed Elev. 587.1 ft

Groundwater Elev.:
First Encounter 577.4 ft
Upon Completion 583.4 ft
After 5 Days Hrs. 582.9 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray to Brown and Gray Moist SILTY CLAY Ref Classification 23-1		-5	1		
	586.40				
Brown and Light Gray Moist SILT Ref Classification 23-2			2	0.8	28
			2	B	
	583.90		1		
Brown and Gray Very Moist SILTY CLAY LOAM Ref Classification 29-3			1	0.6	28
			2	B	
		-10			
			0		
			1	0.3	28
			1	B	
	580.40				
Brown and Gray Very Moist WeatheredCLAY LOAM (Till) CLASSIFICATION 22-1			0		
			1	0.5	24
			2	B	
Free Water		-15			
			0		
	575.90		1	0.7	20
Gray Moist CLAY LOAM (Till) CLASSIFICATION 22-2			2	B	
			0		
			1	0.8	12
		-20	4	B	
Gray Moist CLAY LOAM (Till) CLASSIFICATION 22-2 (continued)			3		
			11	7.9	9
			17	S-14	
		-25			
			4		
			26	9.4	8
			64	S-13	
	563.90				
Gray Med to Coarse Sand					
		-30			
			2		
	560.90		27		
Grayish Brown Moist SILTY LOAM (Till) CLASSIFICATION 22-3			65		
			2		
			9	4.5	11
			15	B	
			4		
		-35	13	5.9	10
			22	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 3/4/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Over McClosky Branch LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION NW 1/4, SEC. 13, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 011-7052
Station 1525+92

BORING NO. 22
Station 1526+10
Offset 95.0ft Lt
Ground Surface Elev. 591.9 ft

Surface Water Elev. 587.1 ft
Stream Bed Elev. 587.1 ft

Groundwater Elev.:
First Encounter 577.4 ft
Upon Completion 583.4 ft
After 5 Days Hrs. 582.9 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	551.40		5		
			16	8.9	11
			23	S-13	
		-45			
		-50			
		-55			
		-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORINGS
PROPOSED STRUCTURE NO. 011-2515

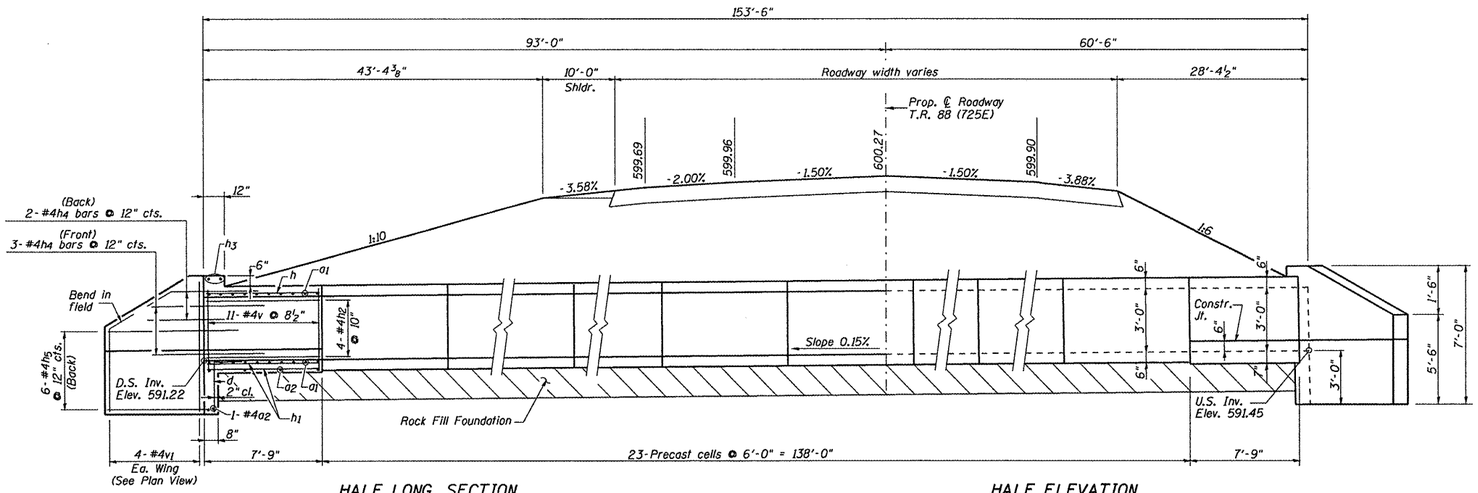
SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

GPE
L:\IDOT\030660\draw\sheets\Structures\McCLOSKEY BR CULV.BORINGS.02.dgn
3/6/2012

CONTRACT NO. 72829

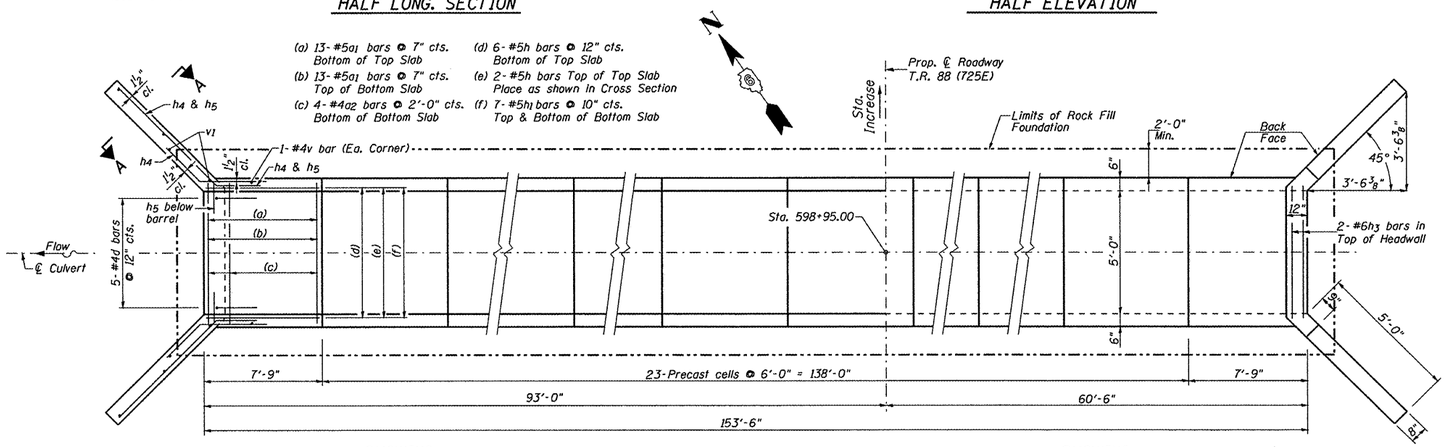
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	461
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



HALF LONG. SECTION

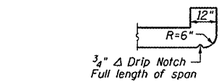
HALF ELEVATION



SHOWING REINFORCEMENT

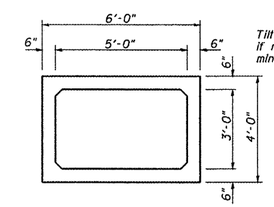
PLAN

SHOWING OUTLINES

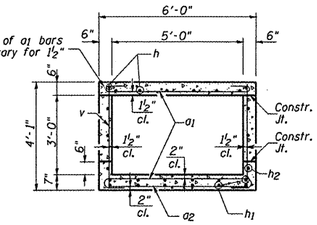


SECTION THRU HEADWALL

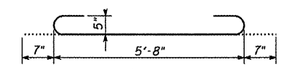
(Upstream End Only)



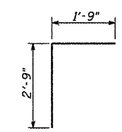
SECTION THRU PRECAST BARREL



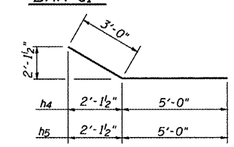
SECTION THRU BARREL



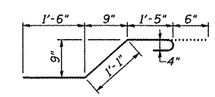
BAR a1



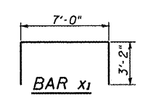
BAR d



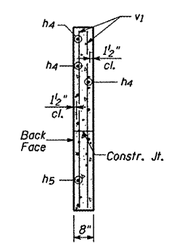
BAR h4 & h5



BAR x



BAR x1



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	52	#5	6'-10"	
a2	10	#4	5'-8"	
d	10	#4	4'-6"	
h	16	#5	7'-5"	
h1	28	#5	7'-5"	
h2	16	#4	7'-5"	
h3	4	#6	5'-8"	
h4	20	#4	8'-0"	
h5	24	#4	8'-0"	
v	48	#4	3'-9"	
v1	16	#4	6'-8"	
x	44	#4	4'-6"	
x1	12	#4	13'-4"	
Porous Granular Embankment			Cu. Yd.	86
Filter Fabric			Sq. Yd.	447
Precast Concrete Box Culverts 5'x3'			Foot	138
Concrete Box Culverts			Cu. Yd.	11.6
Reinforcement Bars			Pound	1,560
Rock Fill Foundation			Ton	178
Granular Culvert Backfill			Cu. Yd.	166

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

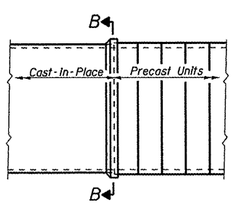
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

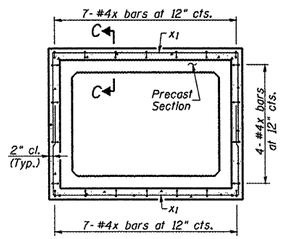
FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi(W.W.F.)

NOTES:

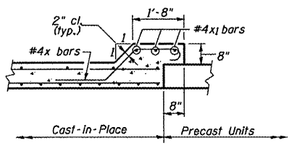
1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the Item "Precast Concrete Box Culverts 5' x 3'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.



PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



SECTION B-B



SECTION C-C

Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR
5087
STATE OF ILLINOIS

03-28-2012

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED BOX CULVERT
PLAN - ELEVATION - DETAILS
STA. 598+95.00

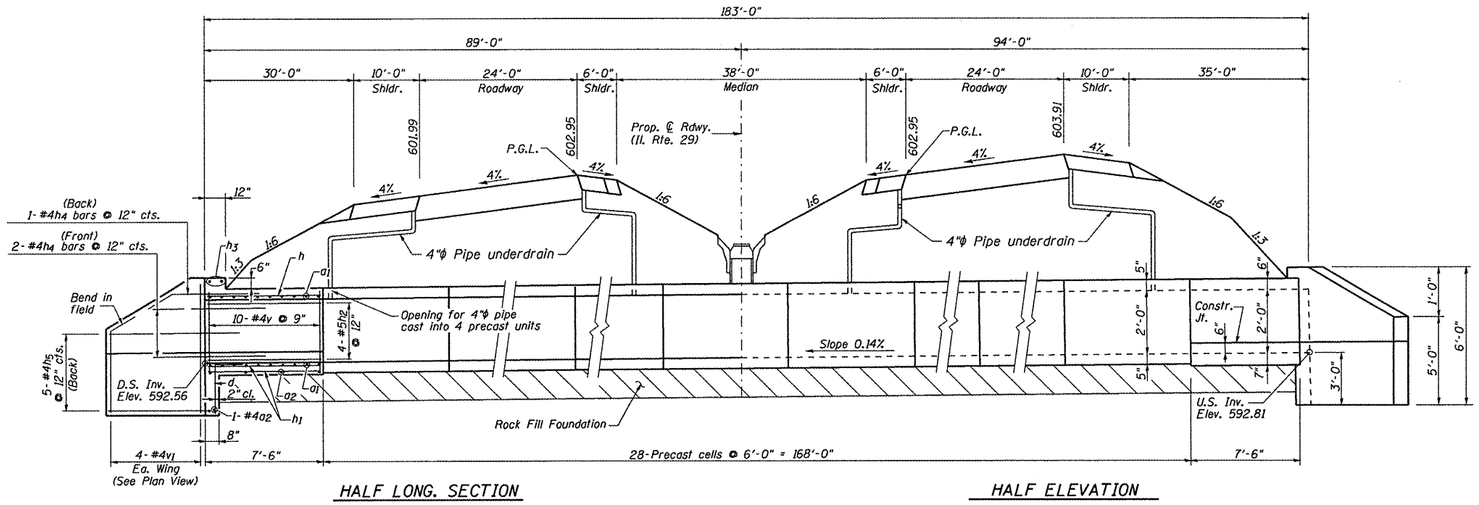
SCALE: NONE DRAWN BY:
DATE: 03/06/2012 CHECKED BY: WLB

Default
L:\IDOT\030660\drow\sheets\Structures\STA 598+95 - BOX Culvert.dgn
3/28/2012

CONTRACT NO. 72829

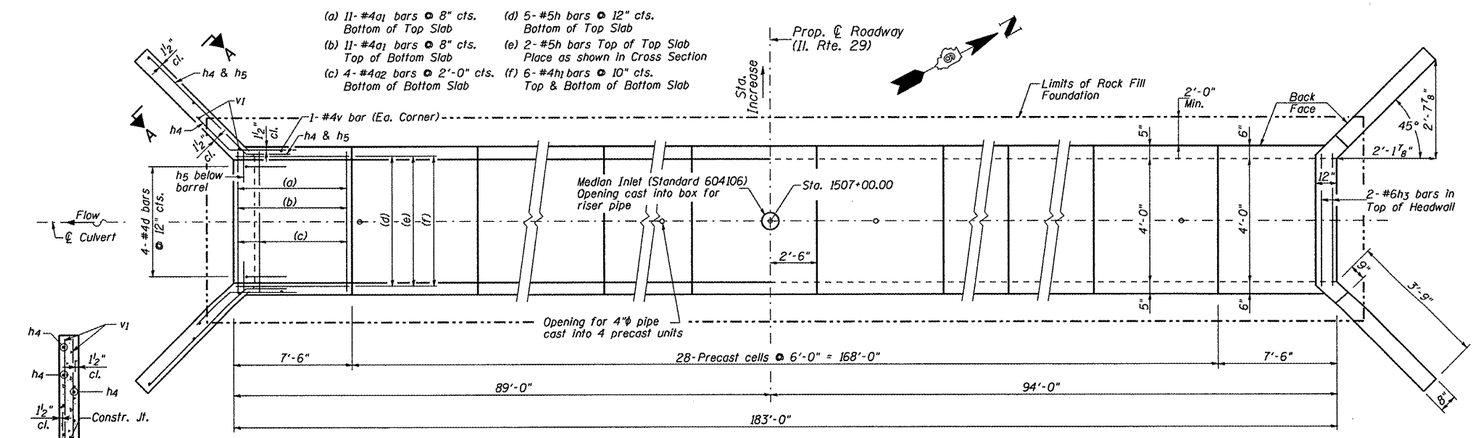
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	462
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



HALF LONG. SECTION

HALF ELEVATION

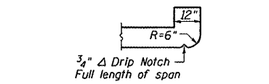


SHOWING REINFORCEMENT

PLAN

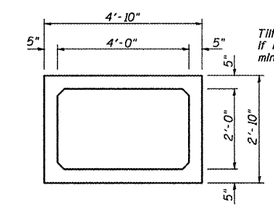
SHOWING OUTLINES

SECTION A-A

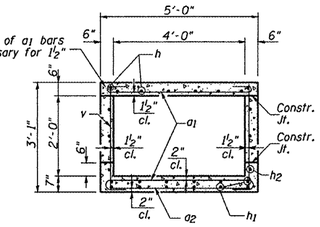


SECTION THRU HEADWALL

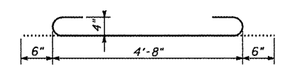
(Upstream End Only)



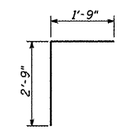
SECTION THRU PRECAST BARREL



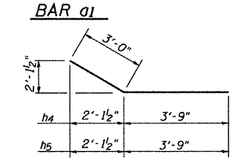
SECTION THRU BARREL



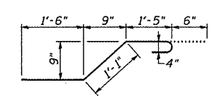
BAR a1



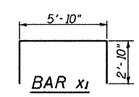
BAR d



BAR h4 & h5



BAR x



BAR x1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	44	#4	5'-8"	
a2	10	#4	4'-8"	
d	8	#4	4'-6"	
h	14	#5	7'-2"	
h1	24	#4	7'-2"	
h2	16	#5	7'-2"	
h3	4	#6	4'-8"	
h4	12	#4	6'-9"	
h5	20	#4	6'-9"	
v	44	#4	3'-9"	
v1	16	#4	5'-8"	
x	36	#4	4'-6"	
x1	12	#4	10'-8"	
Porous Granular Embankment			Cu. Yd.	76
Filter Fabric			Sq. Yd.	459
Precast Concrete Box Culverts 4'x2'			Foot	168
Concrete Box Culverts			Cu. Yd.	8.6
Reinforcement Bars			Pound	1,100
Rock Fill Foundation			Ton	233
Granular Culvert Backfill			Cu. Yd.	420

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi(W.W.F.)

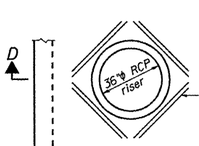
Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
5087
STATE OF ILLINOIS

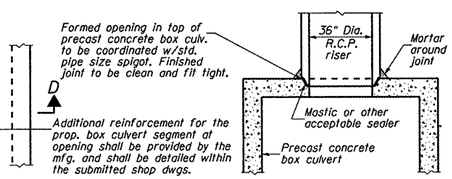
03-29-2012

NOTES:

1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 4' x 2'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.

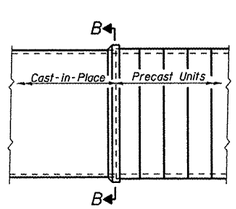


PLAN

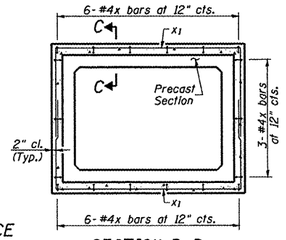


SECTION D-D

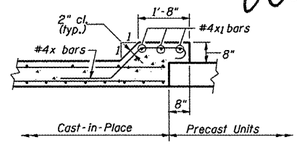
RISER PIPE CONNECTION TO PRECAST BOX CULVERT



PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



SECTION B-B



SECTION C-C

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED BOX CULVERT
PLAN - ELEVATION - DETAILS
STA. 1507+00.00

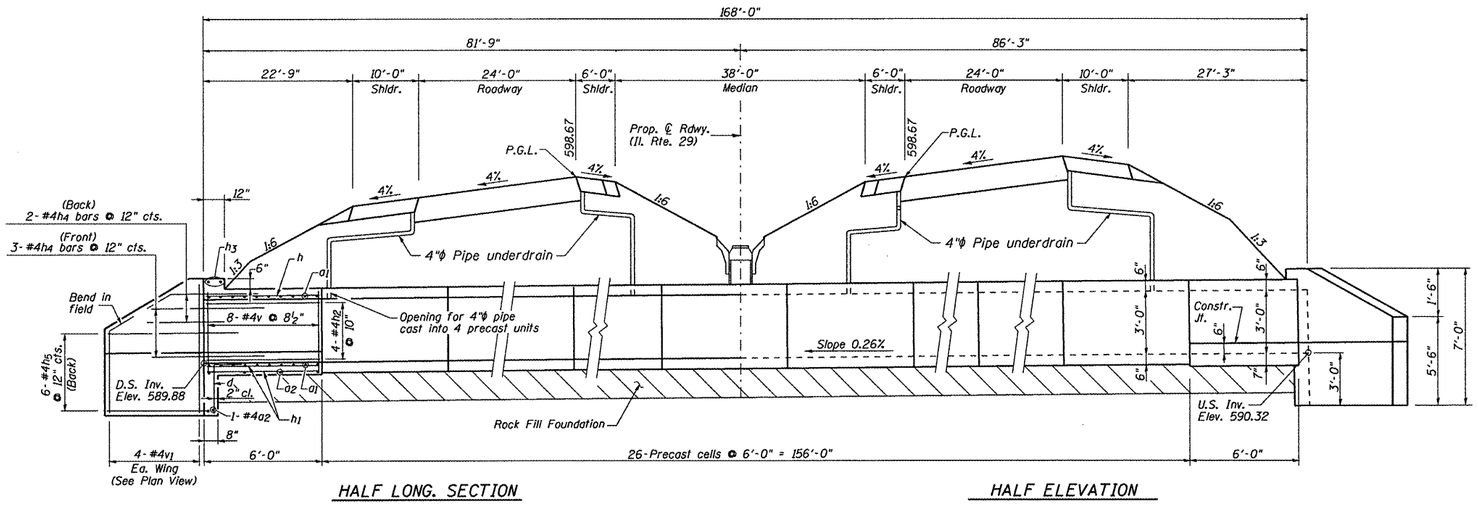
SCALE: NONE | DRAWN BY:
DATE: 03/06/2012 | CHECKED BY: WLB

Default
L:\100T\D30660\drawsheets\Structures\STA 1507+00 - BOX Culvert.dgn
3/28/2012

CONTRACT NO. 72829

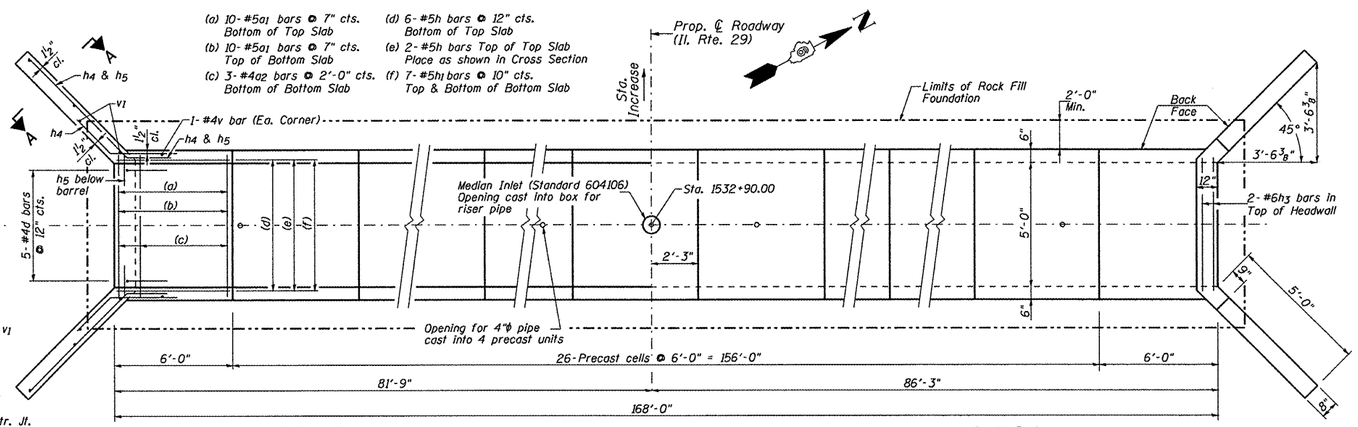
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	463
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



HALF LONG. SECTION

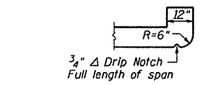
HALF ELEVATION



SHOWING REINFORCEMENT

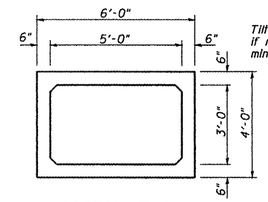
PLAN

SHOWING OUTLINES

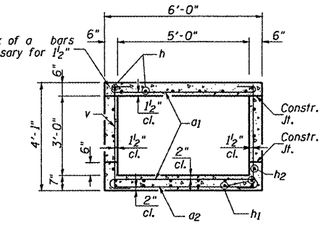


SECTION THRU HEADWALL

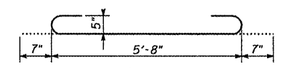
(Upstream End Only)



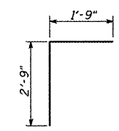
SECTION THRU PRECAST BARREL



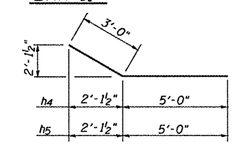
SECTION THRU BARREL



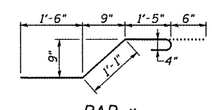
BAR a1



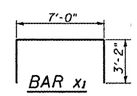
BAR d



BAR h4 & h5



BAR x



BAR x1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	40	#5	6'-10"	
a2	8	#4	5'-8"	
d	10	#4	4'-6"	
h	16	#5	5'-8"	
h1	28	#5	5'-8"	
h2	16	#4	5'-8"	
h3	4	#6	5'-8"	
h4	20	#4	8'-0"	
h5	24	#4	8'-0"	
v	36	#4	3'-9"	
v1	16	#4	6'-8"	
x	44	#4	4'-6"	
x1	12	#4	13'-4"	
Porous Granular Embankment			Cu. Yd.	94
Filter Fabric			Sq. Yd.	492
Precast Concrete Box Culverts 5'x3'			Foot	156
Concrete Box Culverts			Cu. Yd.	10.4
Reinforcement Bars			Pound	1,340
Rock Fill Foundation			Ton	193
Granular Culvert Backfill			Cu. Yd.	176

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi(W.W.F.)

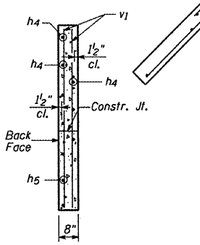
Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER WILLIAM L. BAILEY, JR. 5087 STATE OF ILLINOIS

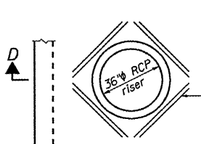
03-28-2012

NOTES:

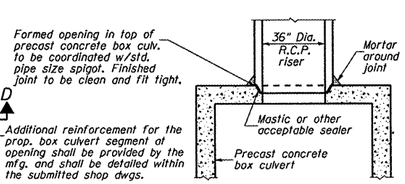
1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 5' x 3'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.



SECTION A-A

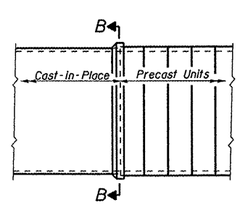


PLAN

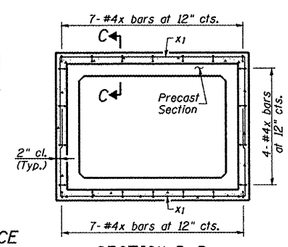


SECTION D-D

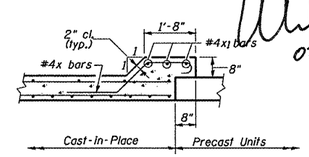
RISER PIPE CONNECTION TO PRECAST BOX CULVERT



PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



SECTION B-B



SECTION C-C

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED BOX CULVERT
PLAN - ELEVATION - DETAILS
STA. 1532+90.00

SCALE: NONE DRAWN BY:

DATE: 03/06/2012 CHECKED BY: WLB

Default
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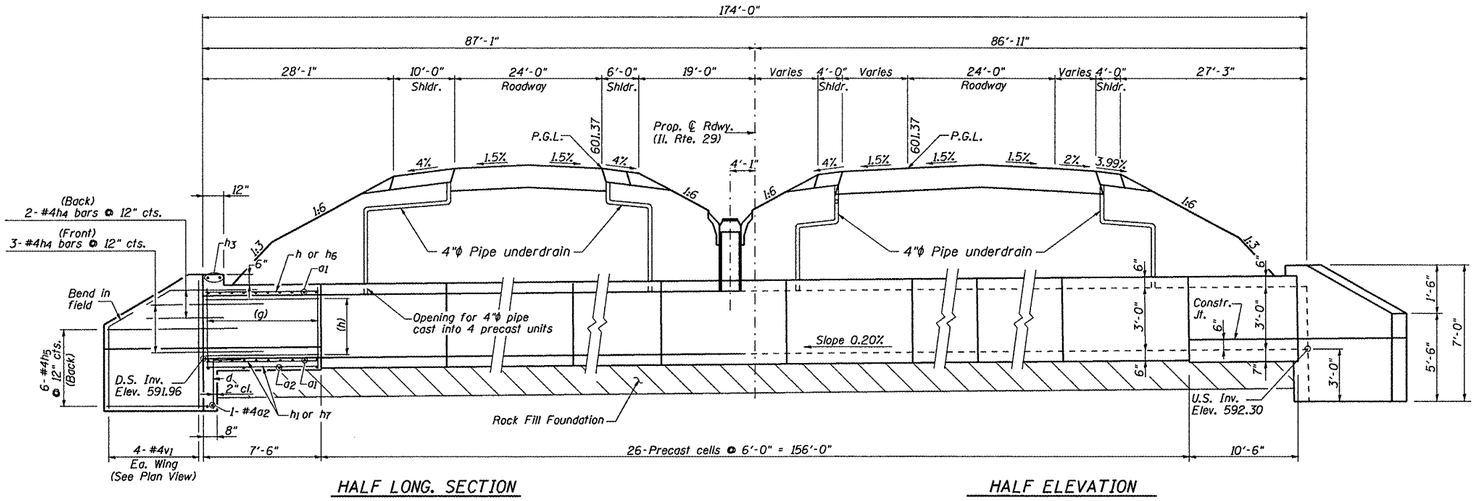
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	464
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



HALF LONG. SECTION

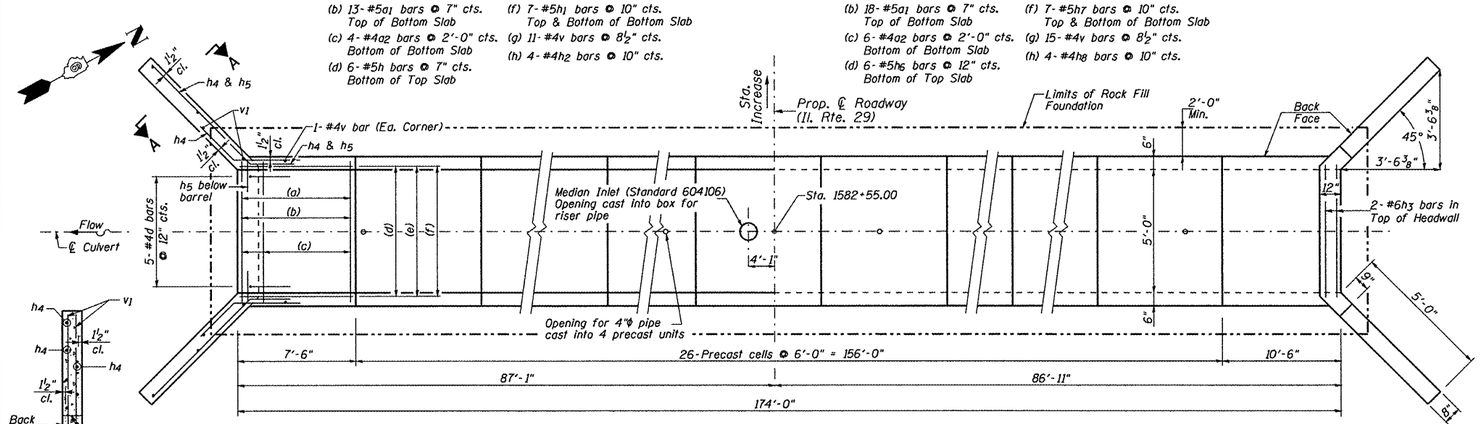
DOWNSTREAM END

(a) 13-#5a1 bars @ 7" cts. Bottom of Top Slab
(b) 13-#5a1 bars @ 7" cts. Top of Bottom Slab
(c) 4-#4a2 bars @ 2'-0" cts. Bottom of Bottom Slab
(d) 6-#5h bars @ 7" cts. Bottom of Top Slab
(e) 2-#5h bars Top of Top Slab Place as shown in Cross Section
(f) 7-#5h1 bars @ 10" cts. Top & Bottom of Bottom Slab
(g) 11-#4v bars @ 8½" cts.
(h) 4-#4h2 bars @ 10" cts.

HALF ELEVATION

UPSTREAM END

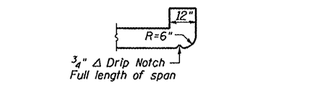
(a) 18-#5a1 bars @ 7" cts. Bottom of Top Slab
(b) 18-#5a1 bars @ 7" cts. Top of Bottom Slab
(c) 6-#4a2 bars @ 2'-0" cts. Bottom of Bottom Slab
(d) 6-#5h5 bars @ 12" cts. Bottom of Top Slab
(e) 2-#5h6 bars Top of Top Slab Place as shown in Cross Section
(f) 7-#5h7 bars @ 10" cts. Top & Bottom of Bottom Slab
(g) 15-#4v bars @ 8½" cts.
(h) 4-#4h8 bars @ 10" cts.



SHOWING REINFORCEMENT

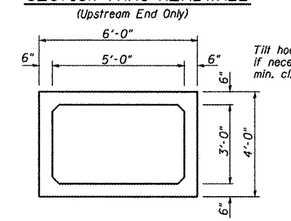
PLAN

SHOWING OUTLINES

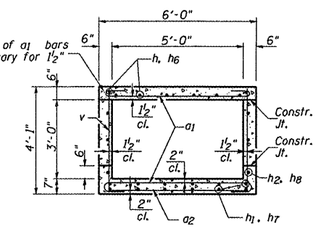


SECTION THRU HEADWALL

(Upstream End Only)



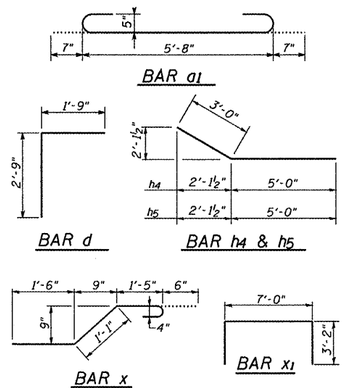
SECTION THRU PRECAST BARREL



SECTION THRU BARREL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	62	#5	6'-10"	
a2	12	#4	5'-8"	
d	10	#4	4'-6"	
h	8	#5	7'-2"	
h1	14	#5	7'-2"	
h2	8	#4	7'-2"	
h3	4	#6	5'-8"	
h4	20	#4	8'-0"	
h5	24	#4	8'-0"	
h6	8	#5	10'-2"	
h7	14	#5	10'-2"	
h8	8	#4	10'-2"	
v	56	#4	3'-9"	
v1	16	#4	6'-8"	
x	44	#4	4'-6"	
x1	12	#4	13'-4"	
Porous Granular Embankment			Cu. Yd.	98
Filter Fabric			Sq. Yd.	511
Precast Concrete Box Culverts 5'x3'			Foot	156
Concrete Box Culverts			Cu. Yd.	12.5
Reinforcement Bars			Pound	1,730
Rock Fill Foundation			Ton	201
Granular Culvert Backfill			Cu. Yd.	245



DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

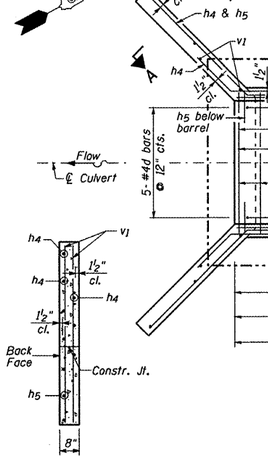
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

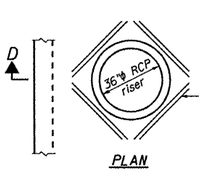
FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi (W.W.F.)

NOTES:

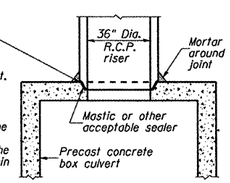
1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 5' x 3'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.



SECTION A-A



PLAN

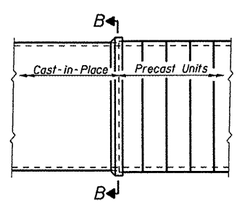


Formed opening in top of precast concrete box culv. to be coordinated w/std. pipe size spigot. Finished joint to be clean and fit tight.

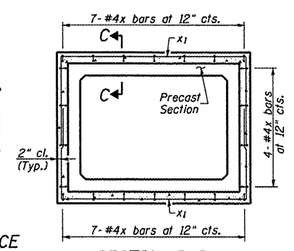
Additional reinforcement for the prop. box culvert segment at opening shall be provided by the mfg. and shall be detailed within the submitted shop dwgs.

SECTION D-D

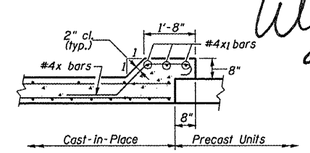
RISER PIPE CONNECTION TO PRECAST BOX CULVERT



PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



SECTION B-B



SECTION C-C

Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
5087
STATE OF ILLINOIS

03-23-2012

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED BOX CULVERT
PLAN - ELEVATION - DETAILS
STA. 1582+55.00

SCALE: NONE
DATE: 03/06/2012
DRAWN BY:
CHECKED BY: WLB

Default
L:\IDOT\D50660\dgrw\sheets\Structures\STA 1582+55 - Box Culvert.dgn
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	465
STA.	N/A	TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

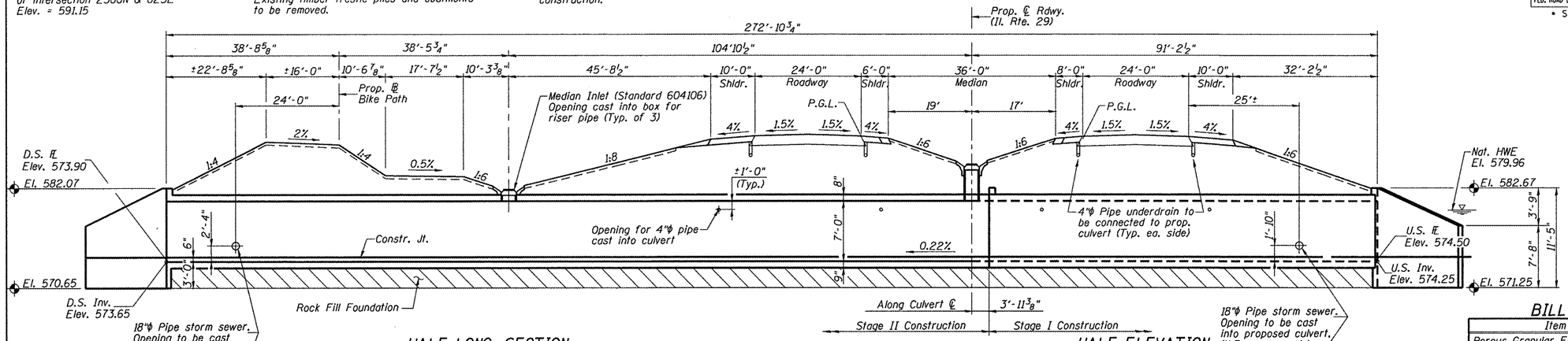
Sheet 1 of 5 Sheets

Bench Mark:
Sta. 1648+69.12±, 9.32'± lt. 60D spiked nail in power pole. SW quandrant of intersection 2300N & 625E
Elev. = 591.15

Existing Structures:
Existing 7' x 8' single cast-in-place box culvert and two 6' Dia. CMP to be removed.
Existing timber trestle piles and abutments to be removed.

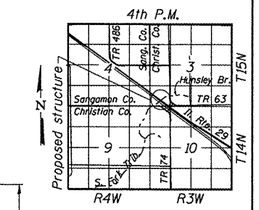
Proposed Structure:
10' x 7' Single cast-in-place box culvert.
Traffic to be maintained utilizing stage construction.

Dimensions at Rt. L's to ℄ Roadway unless noted otherwise



HALF LONG. SECTION

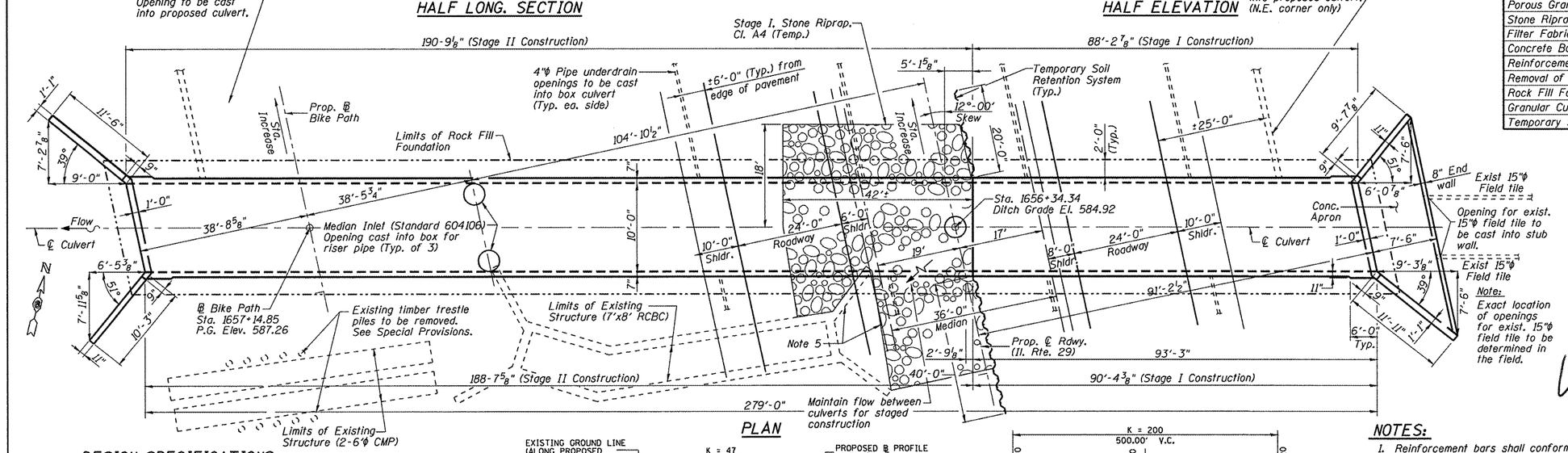
HALF ELEVATION



LOCATION SKETCH

BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	336
Stone Riprap, Class A4 (Temp.)	Sq. Yd.	225
Filter Fabric	Sq. Yd.	1,365
Concrete Box Culverts	Cu. Yd.	273.8
Reinforcement Bars	Pound	67,970
Removal of Existing Structures	L. Sum	1
Rock Fill Foundation	Ton	601
Granular Culvert Backfill	Cu. Yd.	378
Temporary Soil Retention System	Sq. Ft.	364



PLAN

Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
5087
STATE OF ILLINOIS

03-28-2012

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi

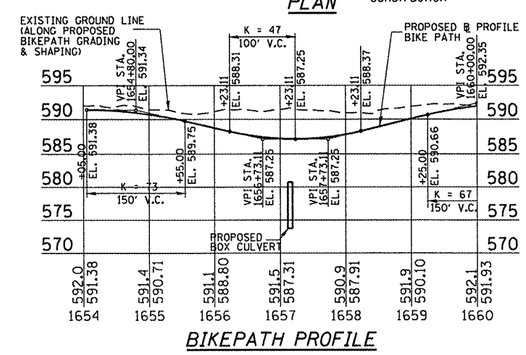
fy = 60,000 psi

WATERWAY INFORMATION

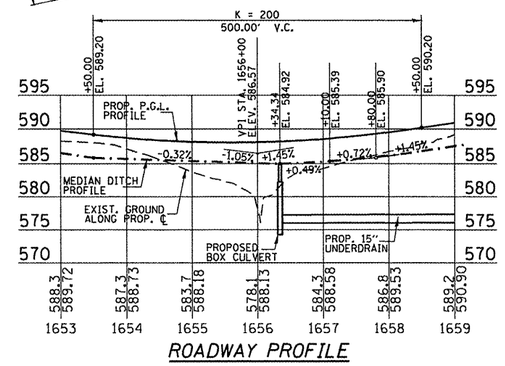
Drainage Area = 1.10 mi.

Ex. Low Grade Elev. = 586.72 ft. @ Sta. 1656+15
Pr. Low Grade Elev. = 588.28 ft. @ Sta. 1655+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	252	26	43	577.96/578.75	579.96	579.02	2.00	0.27
Design	50	411	31	49	578.71/579.96	582.29	580.97	3.58	1.60
Base	100	482	33	51	578.95/579.59	583.28	581.76	4.33	2.17
Overtopping	–	–	–	–	Exist./Prop.	–			
Max. Calc.	500	654	36	55	579.43/580.00	587.04	584.25	7.61	4.25



BIKEPATH PROFILE



ROADWAY PROFILE

NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
2. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Concrete Box Culverts."
3. Precast alternate will not be allowed.
4. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.
5. Remove portion of existing culvert kneewall and North wingwall to facilitate drainage during Stage I Construction. Coordinate limits of Stage I Removal with Engineer.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
GENERAL PLAN
PROPOSED STRUCTURE NO. 011-7053
STA. 1656+34.34

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: ALY

TSL
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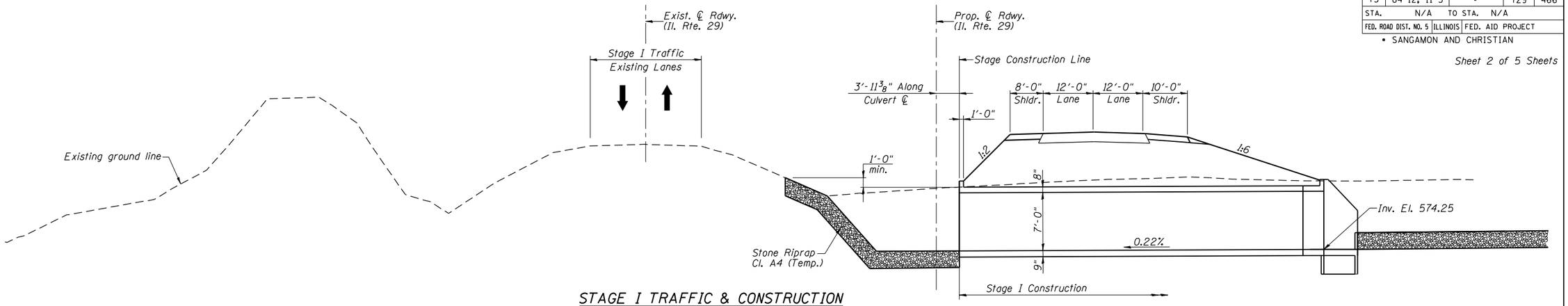
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	466
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

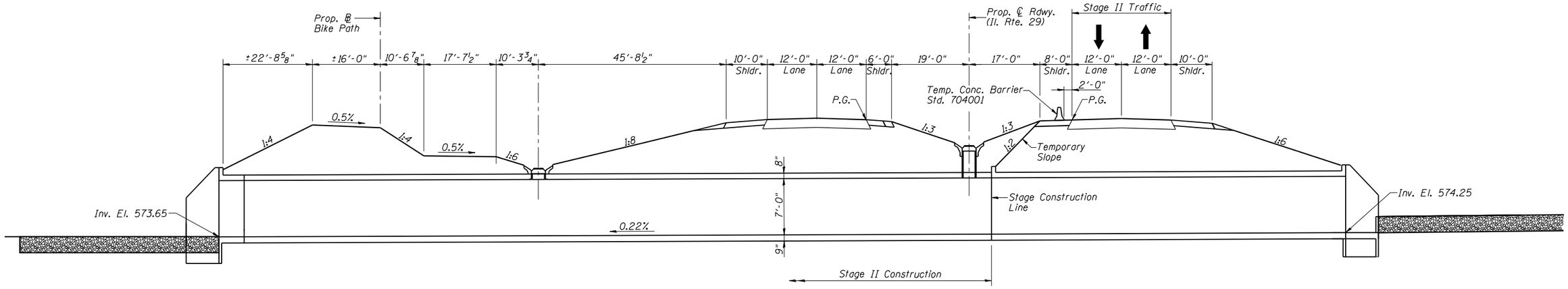
* SANGAMON AND CHRISTIAN

Sheet 2 of 5 Sheets



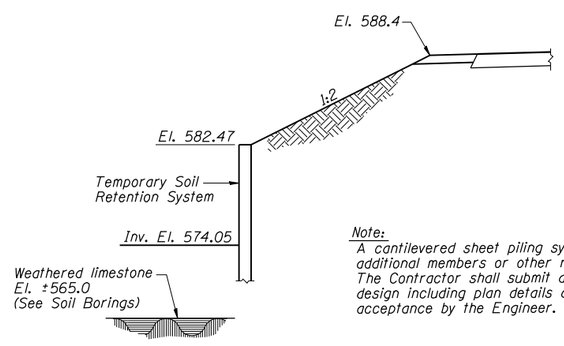
STAGE I TRAFFIC & CONSTRUCTION

(Looking Northbound)



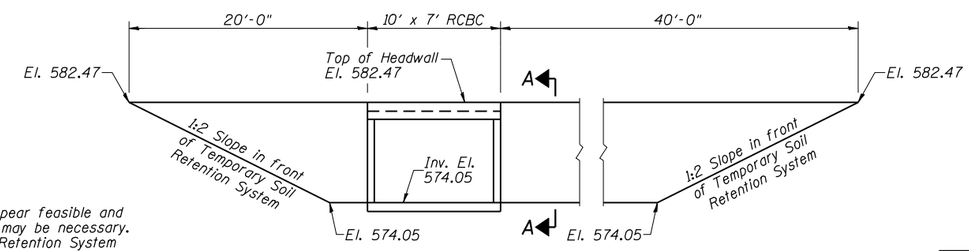
STAGE II TRAFFIC & CONSTRUCTION

(Looking Northbound)



SECTION A-A

Note:
A cantilevered sheet piling system does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a Temporary Soil Retention System design including plan details and elevations for review and acceptance by the Engineer.



ELEVATION

(Looking Upstream - East)

TEMPORARY SOIL RETENTION SYSTEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
STAGING DETAILS
PROPOSED STRUCTURE NO. 011-7053
STA. 1656+34.34

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: ALY

TSL
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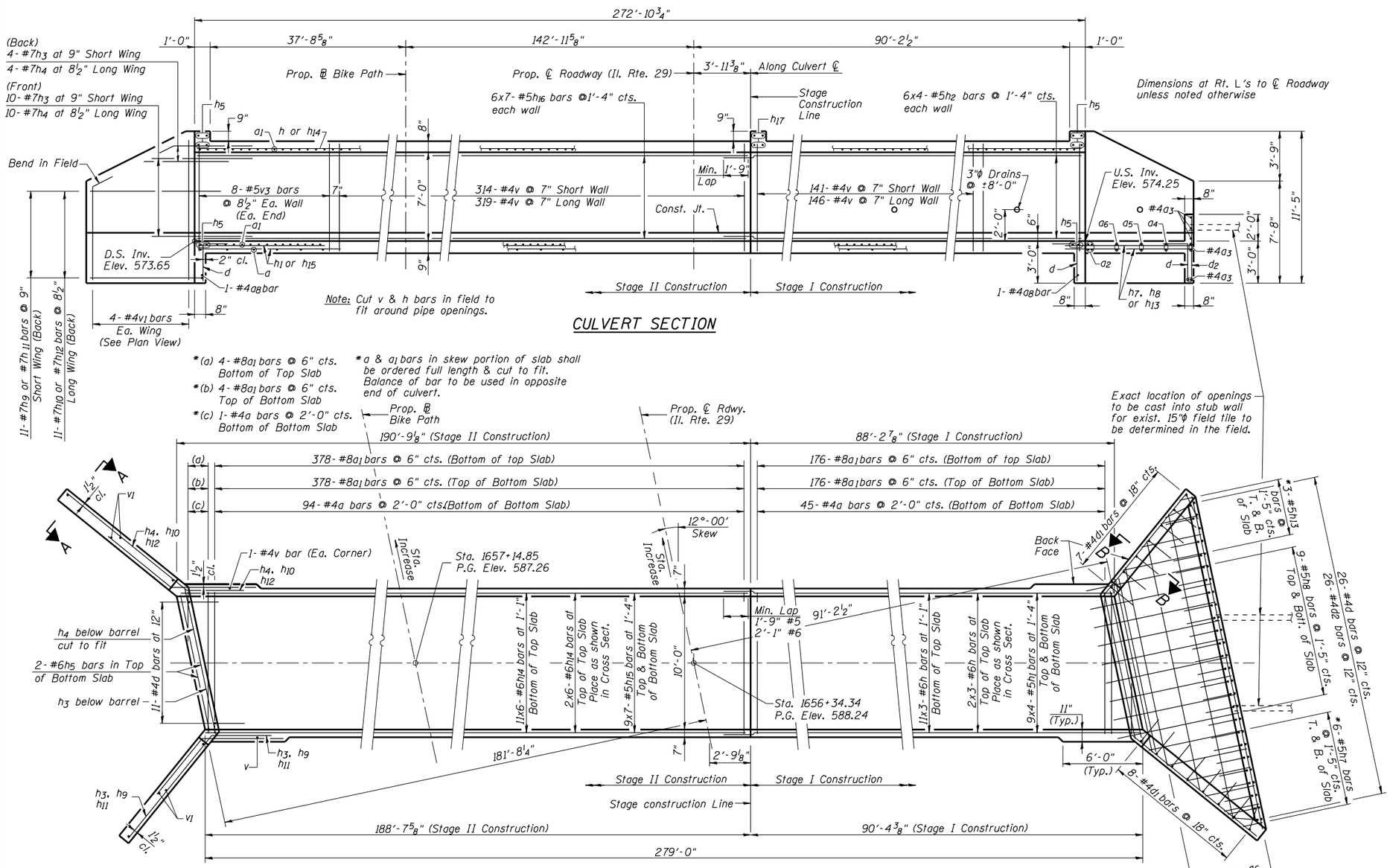
3/16/2012

CONTRACT NO. 72829

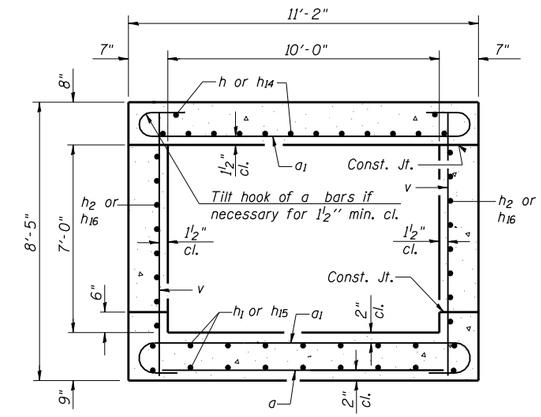
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	467
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

Sheet 3 of 5 Sheets



CULVERT SECTION



SECTION THRU BARREL

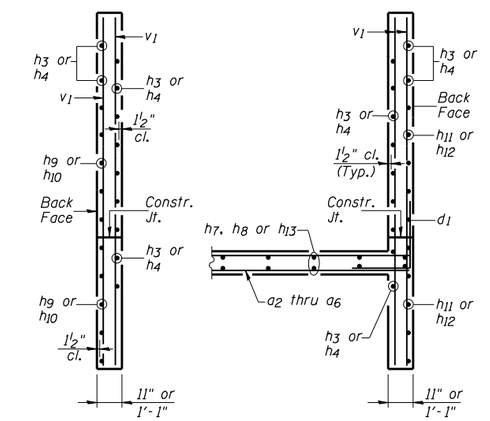
*(a) 4-#8a1 bars @ 6" cts. Bottom of Top Slab

*(b) 4-#8a1 bars @ 6" cts. Top of Bottom Slab

*(c) 1-#4a bars @ 2'-0" cts. Bottom of Bottom Slab

*a & a1 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

PLAN



SECTION A-A

SECTION B-B

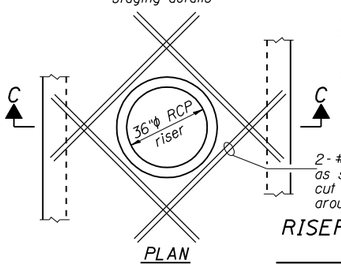
MINIMUM BAR LAPS

#5 bar = 1'-9"

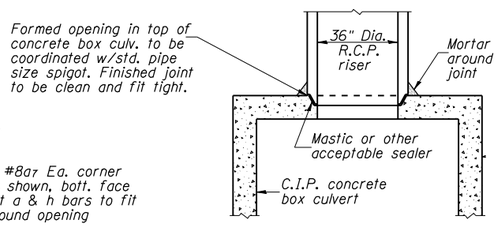
#6 bar = 2'-1"

*Cut bars to fit and balance bars in Top and Bottom of Slab.

Note: See Roadway Plans for staging details

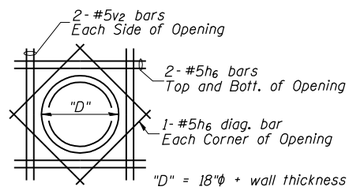


PLAN

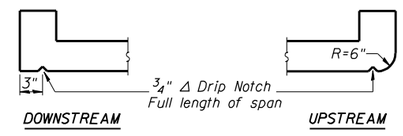


RISER PIPE CONNECTION TO BOX CULVERT

SECTION C-C



ADDITIONAL REINF. FOR 18"φ PIPE OPENING



SECTION THRU HEADWALL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
PROPOSED STRUCTURE NO. 011-7053
STA. 1656+34.34

SCALE: NONE | DRAWN BY: GLD

DATE: 03/06/2012 | CHECKED BY: ALY

TSL
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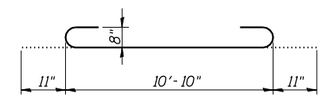
3/16/2012

CONTRACT NO. 72829

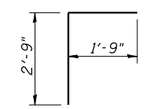
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	468
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

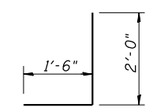
Sheet 4 of 5 Sheets



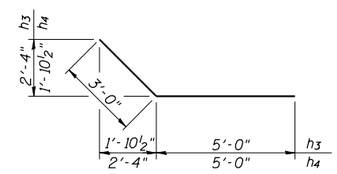
BAR a_1



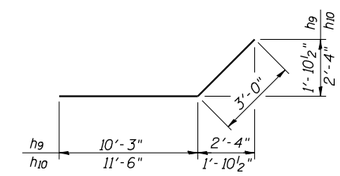
BAR d



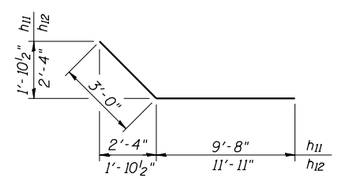
BAR d_1



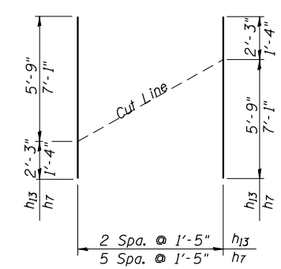
BAR h_3 & h_4



BAR h_9 & h_{10}



BAR h_{11} & h_{12}



BAR h_7 & h_{13}

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	140	#4	10'-10"	
a_1	1,116	#8	12'-8"	
a_2	4	#4	12'-10"	
a_3	7	#4	25'-6"	
a_4	2	#4	23'-2"	
a_5	2	#4	19'-1"	
a_6	2	#4	15'-0"	
a_7	24	#8	8'-0"	
a_8	2	#4	11'-3"	
d	48	#4	4'-6"	
d_1	15	#4	3'-6"	
d_2	26	#4	4'-6"	
h	39	#6	31'-6"	
h_1	72	#5	23'-11"	
h_2	48	#5	23'-11"	
h_3	28	#7	8'-0"	
h_4	28	#7	8'-0"	
h_5	12	#6	11'-0"	
h_6	16	#5	4'-0"	
h_7	6	#5	8'-5"	
h_8	18	#5	9'-4"	
h_9	11	#7	13'-3"	
h_{10}	11	#7	14'-6"	
h_{11}	11	#7	12'-8"	
h_{12}	11	#7	14'-11"	
h_{13}	3	#5	8'-0"	
h_{14}	78	#6	33'-7"	
h_{15}	126	#5	28'-9"	
h_{16}	84	#5	28'-9"	
h_{17}	4	#6	10'-10"	
v	1,844	#4	8'-1"	
v_1	16	#4	11'-1"	
v_2	8	#5	4'-0"	
v_3	32	#5	8'-1"	
Concrete Box Culverts			Cu. Yd.	273.8
Reinforcement Bars			Lbs.	67,970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
PROPOSED STRUCTURE NO. 011-7053
STA. 1656+34.34

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: ALY

TSL
L:\DOT\030660\draw\sheets\Structures\BOX CULV.SHT3.STA1656+34.34.dgn
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	469
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN

Sheet 5 of 5 Sheets

Illinois Department of Transportation
Division of Highways
Illinois department of transportation

SOIL BORING LOG

Page 1 of 1

Date 2/3/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Soil Survey LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION SW 1/4, SEC. 3, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. None Assigned
Station N/A

BORING NO. 45
Station 1655+60
Offset 60.0ft Rt
Ground Surface Elev. 582.0 ft

Surface Water Elev. 579.5 ft
Stream Bed Elev. 579.0 ft

Groundwater Elev.:
First Encounter No Encounter ft
Upon Completion Plugged ft
After 40 Days Hrs. 578.0 ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown and Gray Moist SILTY CLAY Ref Classification 46-1				
		0		
		1 / 2	0.7 / B	27
	-5	1		
		2 / 2	0.6 / B	31
Dark Gray		0		
	574.00	1 / 1	0.4 / B	34
Brown and Gray Moist Weathered LOAM (Till) w/ 3" Med Sandy Gravel Seam Ref Classification 46-4	-10	1		
		2 / 2	0.9 / B	14
Gray Moist LOAM (Till)		3		
		15 / 22	5.2 / B	8
	-15	2		
		18 / 26	5.6 / S-10	8
Gray Moist Weathered LOAM (Till) w/ Limestone Cobble		3		
		59 / 41 / /5"	7.0 / S-11	7
	-20	8		

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown and Gray Moist Weathered LOAM (Till) w/ 3" Med Sandy Gravel Seam Ref Classification 46-4 (continued)		15 / 28	6.1 / S-8	8
Gray and Brown Dry LOAM (Till)	557.00 -25	12		
		28 / 42	10 / S-12	10
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\DOS\GINT FILES\LCS SANGAMON-CHRISTIAN\84-12&11-3 SANGAMON SECTION.GPJ / Rods Template ENTERPRISE.GDT Date Printed 3/12/12
Latitude 39 Deg 51.00? N Longitude 89 Deg 25.33? W Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
Illinois department of transportation

SOIL BORING LOG

Page 1 of 1

Date 2/2/05

ROUTE FAP 75 (IL 29) DESCRIPTION IL 29 Soil Survey LOGGED BY M. Tappan

SECTION 84-12; 11-3 LOCATION SW 1/4, SEC. 3, TWP. 14 N, RNG. 3 W, 3 PM

COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. None Assigned
Station N/A

BORING NO. 46
Station 1656+50
Offset 22.0ft Lt
Ground Surface Elev. 581.6 ft

Surface Water Elev. 579.5 ft
Stream Bed Elev. 579.0 ft

Groundwater Elev.:
First Encounter 572.6 ft
Upon Completion 569.6 ft
After 40 Days Hrs. 573.6 ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Gray to Gray and Brown Moist SILTY CLAY CLASSIFICATION 46-1				
		1		
	578.60	1 / 3	1.2 / B	23
Brown and Light Gray Moist Weathered CLAY LOAM (Till) CLASSIFICATION 46-2	-5	3		
		3 / 4	1.5 / B	21
	575.60			
Tan and Light Gray Moist Weathered LOAM (Till) CLASSIFICATION 46-3		0		
	▼573.60	3 / 3	1.1 / B	19
Gray Med to Coarse Sandy Gravel Free Water	-10	0		
		4 / 6		
	570.60			
Light Blue Gray Moist LOAM (Till) CLASSIFICATION 46-4		2		
		12 / 13	5.2 / S-12	9
	-15	1		
		15 / 19	7.3 / S-10	9
Gray		5		
		25 / 30	10	8
	-20	17		

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Light Blue Gray Moist LOAM (Till) CLASSIFICATION 46-4 (continued)		34 / 27	10	9
	556.60 -25	3		
		15 / 17	6.1 / S-14	9
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\DOS\GINT FILES\LCS SANGAMON-CHRISTIAN\84-12&11-3 SANGAMON SECTION.GPJ / Rods Template ENTERPRISE.GDT Date Printed 3/12/12
Latitude 39 Deg 51.00? N Longitude 89 Deg 25.50? W Datum NAD83 Job Number

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORINGS
PROPOSED STRUCTURE NO. 011-7053

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

GPE
I:\idot\030660\draw\sheets\structures\BORINGS_I656+34.34.dgn
3/6/2012

CONTRACT NO. 72829

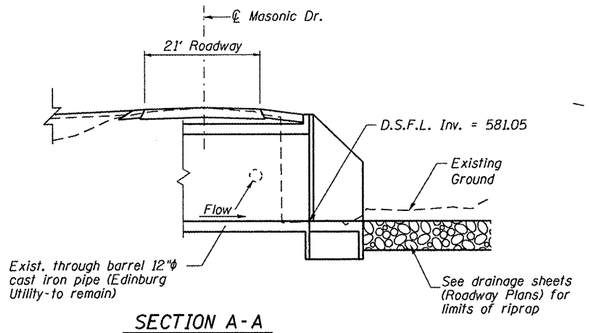
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	470
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

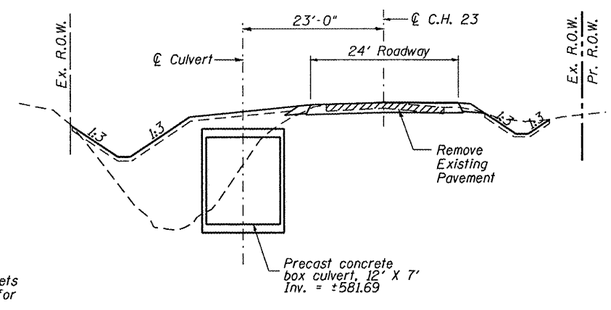
Sheet 1 of 4 Sheets

EXISTING STRUCTURES: 6' W X 8' H RCBC with concrete hdwls. 28' long to be removed. 84" Dia. CMP with concrete hdwls. 82' long to be removed.

PROPOSED STRUCTURE: 12' x 7' Precast Concrete Box Culvert with cast-in-place end sections.

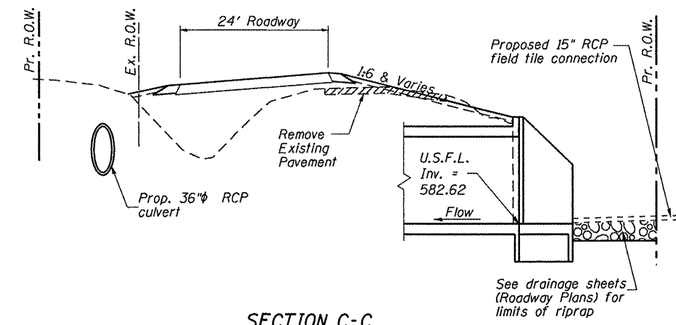


SECTION A-A

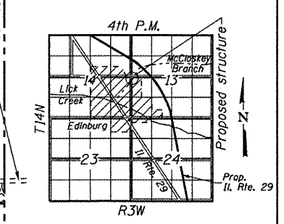


SECTION B-B

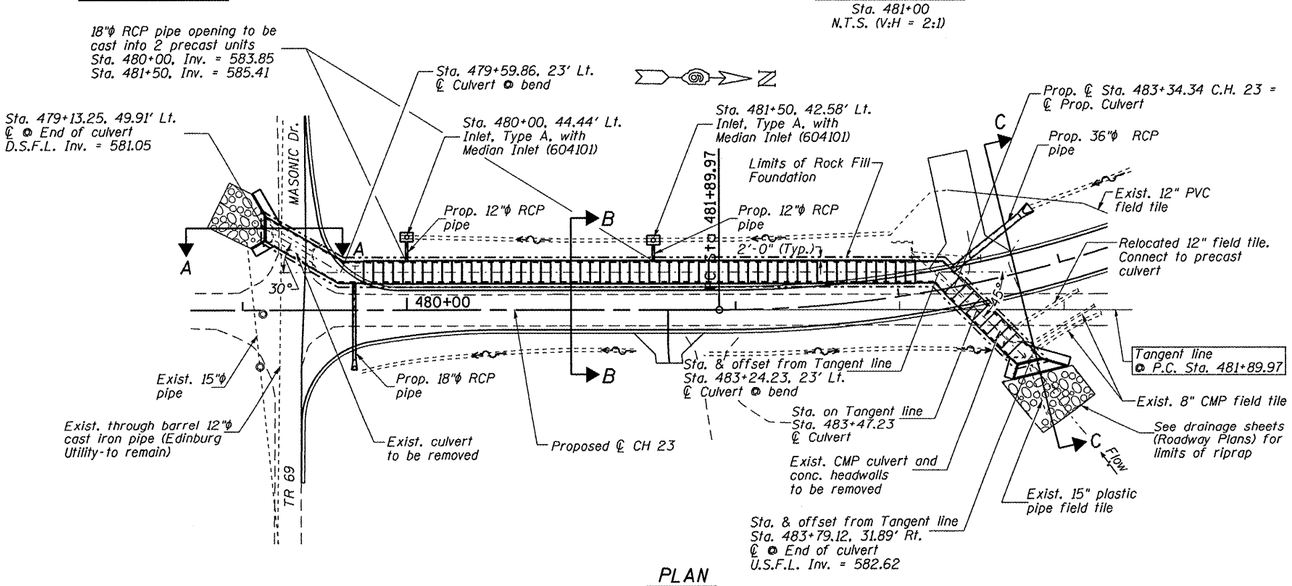
Sta. 481+00
N.T.S. (V:H = 2:1)



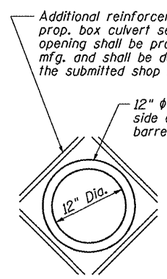
SECTION C-C



LOCATION SKETCH



PLAN



Exp. 11-30-2012

LICENSED STRUCTURAL ENGINEER WILLIAM L. BAILEY, JR. 5087 STATE OF ILLINOIS

03-28-2012

BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	633
Filter Fabric	Sq. Yd.	2,546
Removal of Existing Structures	Each	2
Precast Concrete Box Culvert 12' X 7'	Foot	390
Concrete Box Culverts	Cu. Yd.	159.7
Reinforcement Bars, Epoxy Coated	Pound	230
Reinforcement Bars	Pound	33,200
Rock Fill Foundation	Ton	936
Granular Culvert Backfill	Cu. Yd.	45

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim Revisions

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

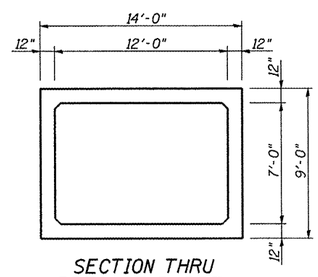
DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi	fy = 65,000 psi (W.W.F.)

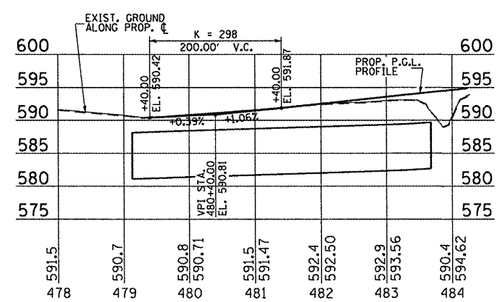
WATERWAY INFORMATION

Drainage Area = 3.25 sq. mi. Ex. Low Grade El. = 592.25 ft. ⊙ Sta. 482+00 (CH23)
Pr. Low Grade El. = 592.41 ft. ⊙ Sta. 482+00 (CH23)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	451.07	38.5	84.0	590.55	2.44	0.73	592.99	591.28
Base	100	637.91	38.5	84.0	590.78	2.48	2.09	593.26	592.87
Overtopping									
Max. Calc.	500	863.07	38.5	84.0	591.56	1.84	1.84	593.47	593.40



SECTION THRU PRECAST BARREL



ROADWAY PROFILE

NOTES:

1. The Precast Culvert shall be designed in accordance with ASTM C1577.
2. Reinforcement bars shall conform to the requirements of the ASTM A706, Grade 60.
3. It shall be the responsibility of the contractor to divert the stream flow in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the item "Precast Concrete Box Culverts 12' x 7'."
4. Precast end sections will not be allowed.
5. All construction joints shall be bonded.
6. Limits of Removal and Replacement of weak soils with Rock Fill Foundation will be determined by the Engineer.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
GENERAL PLAN
PRPOSED STRUCTURE NO. 011-7052
STA. 483+34.34

SCALE: NONE DRAWN BY: GLD
DATE: 03/06/2012 CHECKED BY: WLB

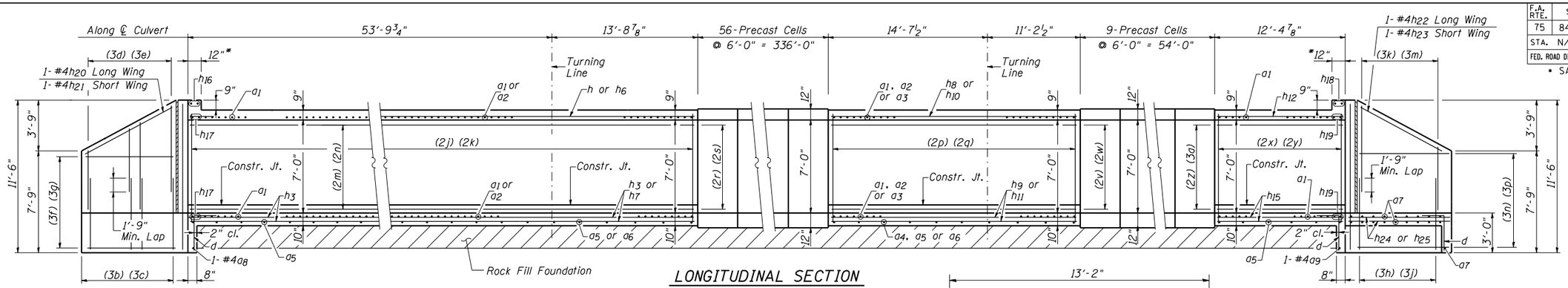
GPE
L:\IDOT\030660\drow\sheets\Structures\D.S._G.P.E._McCLOSKEY BR CULV.01.dgn
3/28/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	471
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

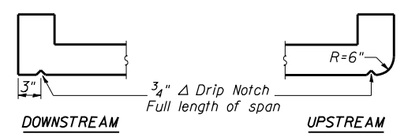
Sheet 2 of 4 Sheets



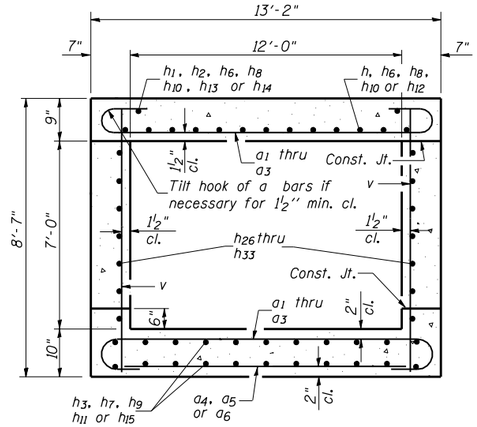
*Dimensions at Rt. L's to culvert end

LONGITUDINAL SECTION

(2j) 68-#5v bars @ 12" cts. Long Wall
(2k) 67-#5v bars @ 12" cts. Short Wall
(2m) 8x2-#4h26 bars @ 10" cts. Long Wall
(2n) 8x2-#4h27 bars @ 10" cts. Short Wall
(2p) 21-#5v bars @ 12" cts. Short Wall
(2q) 31-#5v bars @ 12" cts. Long Wall
(2r) 8-#4h28 bars @ 10" cts. Short Wall
(2s) 8-#4h29 bars @ 10" cts. Long Wall
(2v) 8-#4h30 bars @ 10" cts. Long Wall
(2w) 8-#4h31 bars @ 10" cts. Short Wall
(2x) 16-#5v bars @ 12" cts. Long Wall
(2y) 9-#5v bars @ 12" cts. Short Wall
(2z) 8-#4h32 bars @ 10" cts. Long Wall
(3a) 8-#4h33 bars @ 10" cts. Short Wall
(3b) 23-#4v3 (E) bars @ 8" cts. Long Wing
(3c) 13-#4v3 (E) bars @ 8" cts. Short Wing
(3d) 11-#4v4 & 12-#4v5 bars @ 8" cts. Long Wing
(3e) 6-#4v6 & 7-#4v7 bars @ 8" cts. Short Wing
(3f) 8-#4h20 bars @ 12" cts. Long Wing
(3g) 8-#4h21 bars @ 12" cts. Short Wing
(3h) 24-#4v3 (E) bars @ 8" cts. Long Wing
(3j) 13-#4v3 (E) bars @ 8" cts. Short Wing
(3k) 12-#4v4 & 12-#4v5 bars @ 8" cts. Long Wing
(3m) 6-#4v6 & 7-#4v7 bars @ 8" cts. Short Wing
(3n) 8-#4h22 bars @ 12" cts. Long Wing
(3p) 8-#4h23 bars @ 12" cts. Short Wing



SECTION THRU HEADWALL



SECTION THRU BARREL

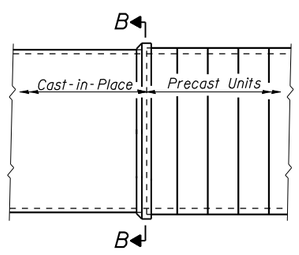
MINIMUM BAR LAP

#4 Bar = 1'-9"
#5 Bar = 1'-9"
#6 Bar = 2'-1"

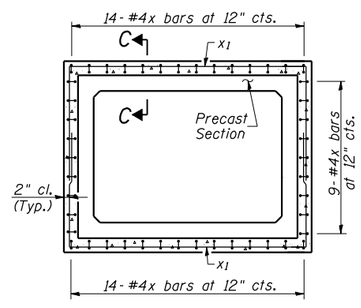
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	381	#8	14'-8"	
a2	30	#8	15'-0"	
a3	12	#8	15'-5"	
a4	1	#4	13'-7"	
a5	58	#4	12'-10"	
a6	3	#4	13'-2"	
a7	38	#5	17'-11"	
a8	1	#4	14'-0"	
a9	1	#4	14'-2"	
d	58	#4	4'-6"	
h	26	#6	30'-9"	
h1	2	#6	27'-0"	
h2	2	#6	30'-9"	
h3	28	#6	30'-9"	
h6	15	#6	15'-3"	
h7	28	#6	15'-3"	
h8	15	#6	17'-0"	
h9	28	#6	17'-0"	
h10	15	#6	13'-7"	
h11	28	#6	13'-7"	
h12	13	#6	15'-9"	
h13	1	#6	15'-9"	
h14	1	#6	8'-5"	
h15	14	#6	24'-2"	
h16	2	#6	14'-2"	
h17	4	#8	14'-2"	
h18	2	#6	14'-5"	
h19	4	#8	14'-5"	
h20	12	#4	14'-11"	
h21	12	#4	8'-5"	
h22	12	#4	15'-8"	
h23	12	#4	8'-2"	
h24	48	#5	9'-9"	
h25	10	#5	8'-9"	
h26	16	#4	24'-11"	
h27	16	#4	21'-6"	
h28	8	#4	21'-3"	

Bar	No.	Size	Length	Shape
h29	8	#4	27'-8"	
h30	8	#4	30'-7"	
h31	8	#4	20'-7"	
h32	8	#4	15'-9"	
h33	8	#4	8'-5"	
h34	8	#5	5'-6"	
h35	8	#5	7'-0"	
h36	16	#5	5'-0"	
s	15	#4	4'-9"	
s1	15	#4	4'-7"	
v	212	#5	8'-3"	
v1	8	#4	8'-3"	
v3(E)	73	#4	4'-9"	
v4	23	#4	6'-5"	
v5	24	#4	8'-5"	
v6	12	#4	6'-3"	
v7	14	#4	8'-3"	
v8	4	#5	5'-6"	
v9	4	#5	7'-0"	
v10	8	#5	5'-0"	
w	7	#5	28'-6"	
w1	7	#5	15'-3"	
w2	7	#5	29'-7"	
w3	7	#5	14'-11"	
w4	1	#5	10'-2"	
w5	1	#5	11'-1"	
x	184	#4	4'-11"	
x1	24	#4	26'-10	
z	96	#7	8'-4"	
z1	9	#7	4'-7"	
z2	8	#7	6'-6"	
Concrete Box Culverts			Cu. Yd.	159.7
Reinforcement Bars, Epoxy Coated			Pound	230
Reinforcement Bars			Pound	33,170



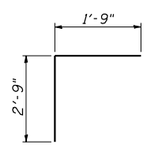
PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



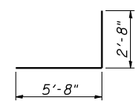
SECTION B-B

BAR a1

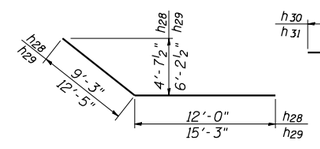
BAR a2 & a3



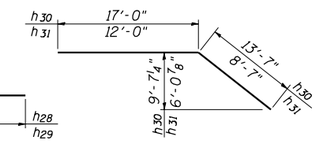
BAR d



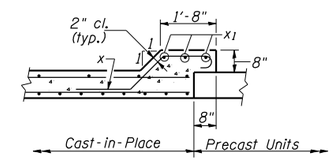
BAR z



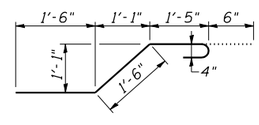
BAR h28 & h29



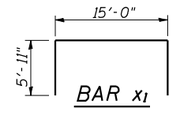
BAR h30 & h31



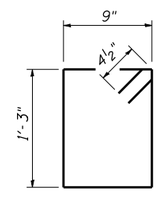
SECTION C-C



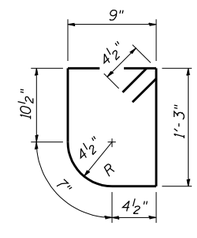
BAR x



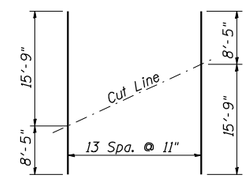
BAR x1



BAR s



BAR s1



CUTTING DIAGRAM FOR h15 BARS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
SECTIONS AND DETAILS
PROPOSED STRUCTURE NO. 011-7052
STA. 483+34.34

SCALE: NONE — DRAWN BY: GLD
DATE: 03/06/2012 — CHECKED BY: WLB

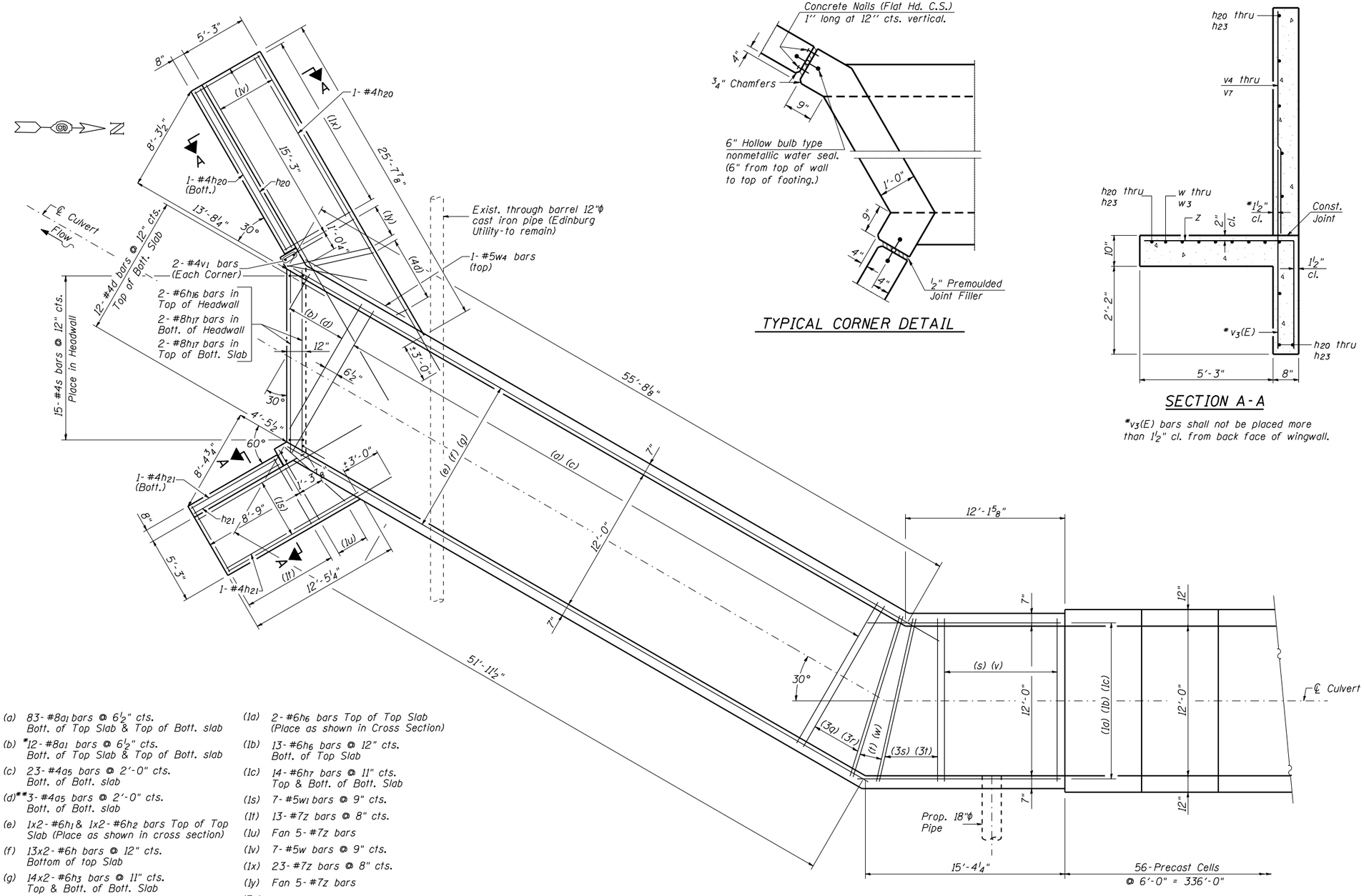
GPE
L:\IDOT\030660\draw\sheets\Structures\D.S._McCLOSKEY BR CULV.01.dgn
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	472
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

Sheet 3 of 4 Sheets

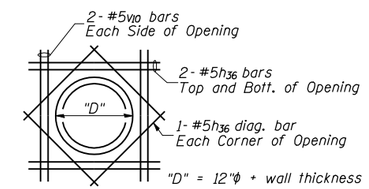


PARTIAL PLAN

TYPICAL CORNER DETAIL

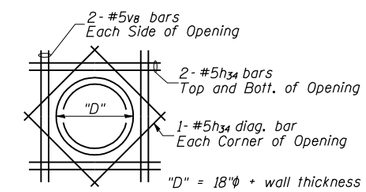
SECTION A-A

*v_3(E) bars shall not be placed more than 1½" cl. from back face of wingwall.



ADDITIONAL REINF. FOR 12"ϕ PIPE OPENING

(2 Location for Exist. Edinburg Utility)



ADDITIONAL REINF. FOR 18"ϕ PIPE OPENING

(a) 83-#8a_1 bars @ 6½" cts. Bott. of Top Slab & Top of Bott. slab

(b) *12-#8a_1 bars @ 6½" cts. Bott. of Top Slab & Top of Bott. slab

(c) 23-#4a_5 bars @ 2'-0" cts. Bott. of Bott. slab

(d)**3-#4a_5 bars @ 2'-0" cts. Bott. of Bott. slab

(e) 1x2-#6h_1 & 1x2-#6h_2 bars Top of Top Slab (Place as shown in cross section)

(f) 13x2-#6h bars @ 12" cts. Bottom of top Slab

(g) 14x2-#6h_3 bars @ 11" cts. Top & Bott. of Bott. Slab

(s) 16-#8a_1 bars @ 6½" cts. Bott. of Top Slab & Top of Bott. Slab

(t) Fan 4-#8a_2 bars Bott. of Top Slab & Top of Bott. Slab

(v) 5-#4a_5 bars @ 2'-0" cts. Bott. of Bott. Slab

(w) Fan 1-#4a_6 bars Bott. of Bott. Slab

(1a) 2-#6h_6 bars Top of Top Slab (Place as shown in Cross Section)

(1b) 13-#6h_6 bars @ 12" cts. Bott. of Top Slab

(1c) 14-#6h_7 bars @ 11" cts. Top & Bott. of Bott. Slab

(1s) 7-#5w_1 bars @ 9" cts.

(1t) 13-#7z bars @ 8" cts.

(1u) Fan 5-#7z bars

(1v) 7-#5w bars @ 9" cts.

(1x) 23-#7z bars @ 8" cts.

(1y) Fan 5-#7z bars

(3q) Fan 11-#8a_1 bars Bott. of Top Slab & Top of Bott. Slab

(3r) Fan 3-#4$a_5$bars Bott. of Bott. Slab

(3s) Fan 11-#8a_1 bars Bott. of Top Slab & Top of Bott. Slab

(3t) Fan 3-#4a_5 bars Bott. of Bott. Slab

(4d) 9-#7z_1 bars @ 8"***

*a_1 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in same end of culvert Top of Bottom Slab.

**a_5 bars in skew portion of slab shall be ordered full length & cut to fit.

***z_1 bars shall be placed in footing ordered full length & cut to fit.

MINIMUM BAR LAP

#6 Bar = 2'-1"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
SO. END PARTIAL PLAN AND DETAILS
PROPOSED STRUCTURE NO. 011-7052
STA. 483+34.34

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: WLB

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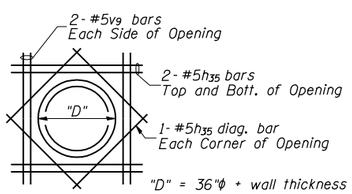
L:\IDOT\030660\drow\sheets\Structures\D.S._McCLOSKEY BR CULV.02.dgn
3/16/2012

CONTRACT NO. 72829

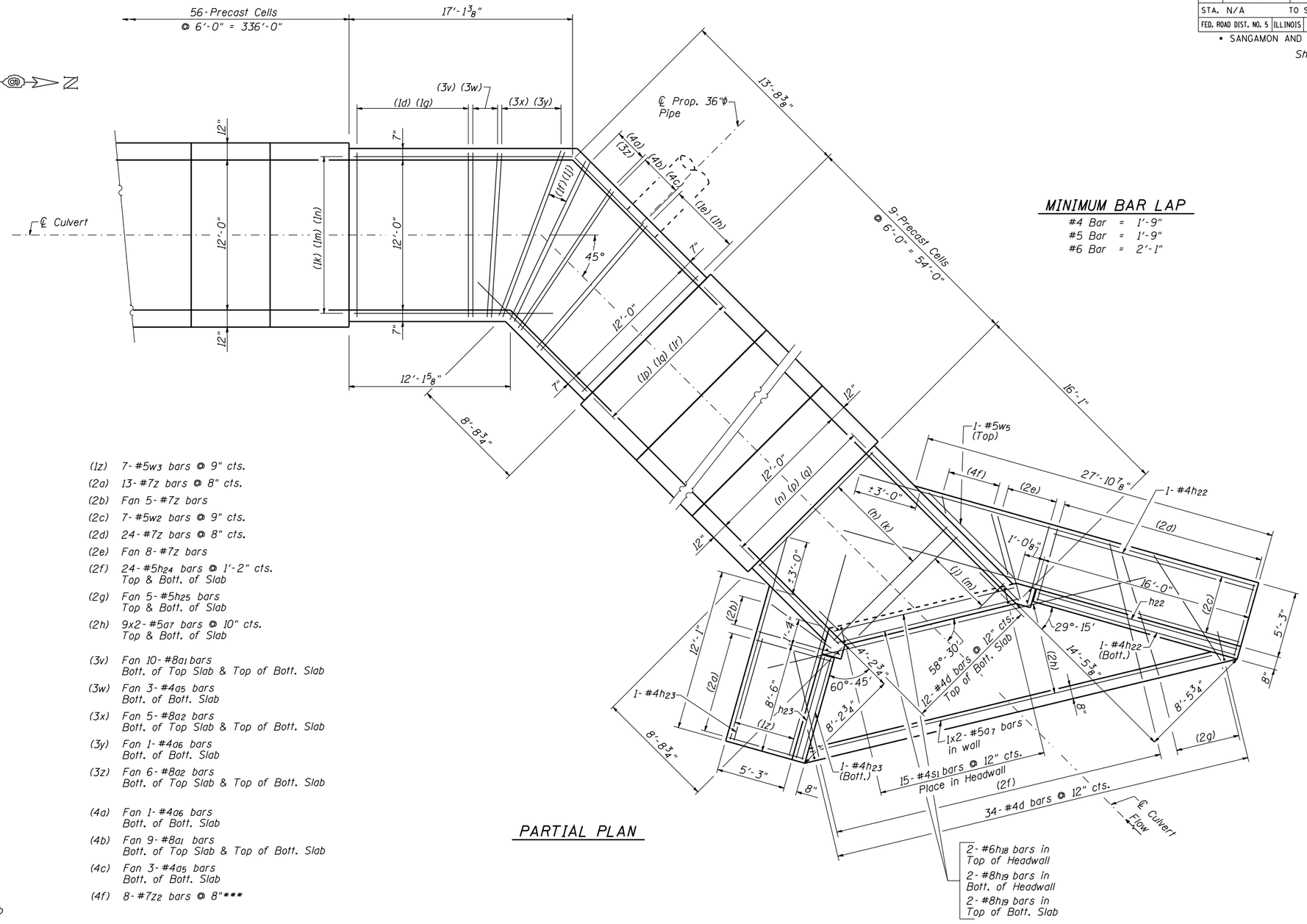
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	473
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

Sheet 4 of 4 Sheets



ADDITIONAL REINF. FOR 36"ϕ PIPE OPENING



PARTIAL PLAN

MINIMUM BAR LAP

#4 Bar = 1'-9"
#5 Bar = 1'-9"
#6 Bar = 2'-1"

(1d) 14-#8a1 bars @ 6½" cts.
Bott. of Top Slab & Top of Bott. slab

(1e) 8-#8a1 bars @ 6½" cts.
Bott. of Top Slab & Top of Bott. slab

(1f) Fan 6-#8a3 bars
Bott. of Top Slab & Top of Bott. Slab

(1g) 4-#4a5 bars @ 2'-0" cts.
Bott. of Bott. slab

(1h) 3-#4a5 bars @ 2'-0" cts.
Bott. of Bott. Slab

(1j) Fan 1-#4a4 bars
Bott. of Bott. Slab

(1k) 2-#6h8 bars Top of Top Slab
(Place as shown in cross section)

(1m) 13-#6h8 bars @ 12" cts.
Bott. of Top Slab

(1n) 14-#6h9 bars @ 11" cts.
Top & Bott. of Bott. Slab

(1p) 2-#6h10 bars Top of Top slab
(Place as shown in cross section)

(1q) 13-#6h10 bars @ 12" cts.
Bott. of Top Slab

(1r) 14-#6h11 bars @ 11" cts.
Top & Bott. of Bott. Slab

(h) 16-#8a1 bars @ 6½" cts.
Bott. of Top Slab & Top of Bott. Slab

(j) *13-#8a1 bars @ 6½" cts.
Bott. of Top Slab & Top of Bott. Slab

(k) 5-#4a5 bars @ 2'-0" cts.
Bott. of Bott. Slab

(m)**3-#4a5 bars @ 2'-0" cts.
Bott. of Bott. Slab

(n) 1-#6h13 & 1-#6h14 bars Top of Top Slab
(Place as shown in cross section)

(p)**13-#6h12 bars at 12" cts.
Bott. of Top Slab

(q) *14-#6h15 bars @ 11" cts.
Top & Bott. of Bott. Slab

(1z) 7-#5w3 bars @ 9" cts.

(2a) 13-#7z bars @ 8" cts.

(2b) Fan 5-#7z bars

(2c) 7-#5w2 bars @ 9" cts.

(2d) 24-#7z bars @ 8" cts.

(2e) Fan 8-#7z bars

(2f) 24-#5h24 bars @ 1'-2" cts.
Top & Bott. of Slab

(2g) Fan 5-#5h25 bars
Top & Bott. of Slab

(2h) 9x2-#5a7 bars @ 10" cts.
Top & Bott. of Slab

(3v) Fan 10-#8a1 bars
Bott. of Top Slab & Top of Bott. Slab

(3w) Fan 3-#4a5 bars
Bott. of Bott. Slab

(3x) Fan 5-#8a2 bars
Bott. of Top Slab & Top of Bott. Slab

(3y) Fan 1-#4a6 bars
Bott. of Bott. Slab

(3z) Fan 6-#8a2 bars
Bott. of Top Slab & Top of Bott. Slab

(4a) Fan 1-#4a6 bars
Bott. of Bott. Slab

(4b) Fan 9-#8a1 bars
Bott. of Top Slab & Top of Bott. Slab

(4c) Fan 3-#4a5 bars
Bott. of Bott. Slab

(4f) 8-#7z2 bars @ 8"***

*a1, h15 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in same end of culvert Top of Bottom Slab.

**a5, h12 bars in skew portion of slab shall be ordered full length & cut to fit.

***z2 bars shall be placed in footing ordered full length & cut to fit.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT
NO. END PARTIAL PLAN AND DETAILS
PROPOSED STRUCTURE NO. 011-7052
STA. 483+34.34

SCALE: NONE | DRAWN BY: GLD
DATE: 03/06/2012 | CHECKED BY: WLB

GPE
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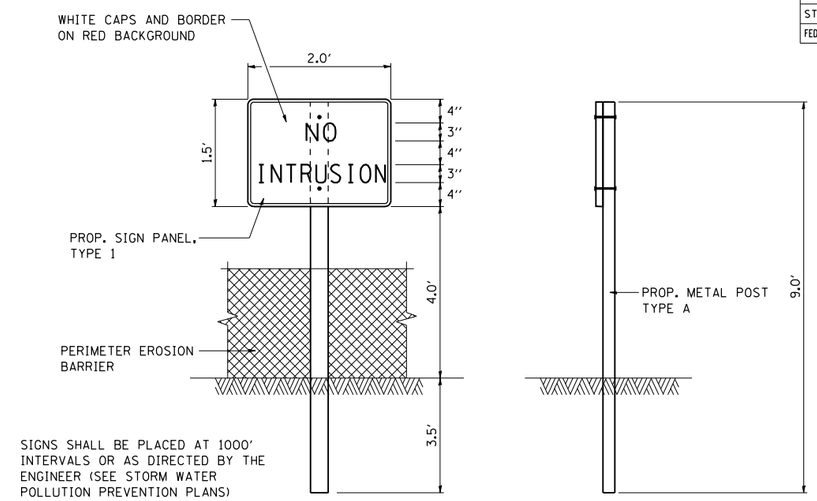
3/16/2012

CONTRACT NO. 72829

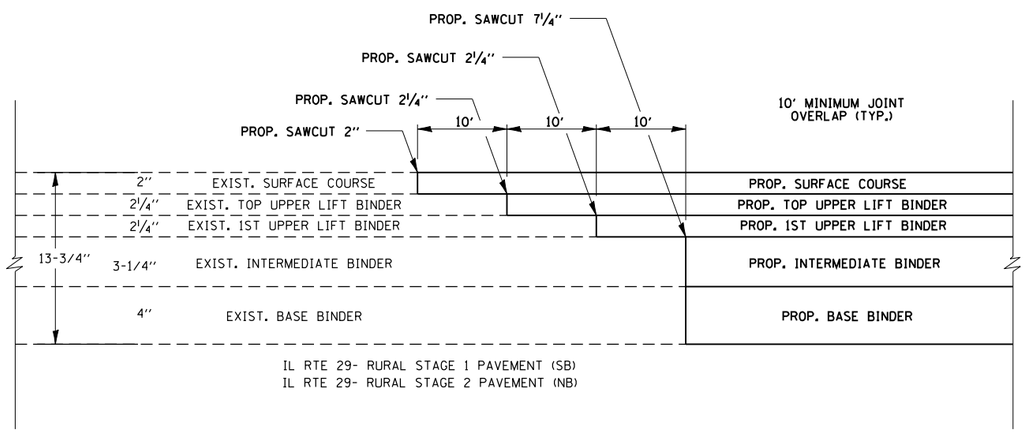
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	474
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



TEMPORARY SIGN DURING CONSTRUCTION
PROTECTED AREA SIGNING (PRAIRIE GRASS AREAS)

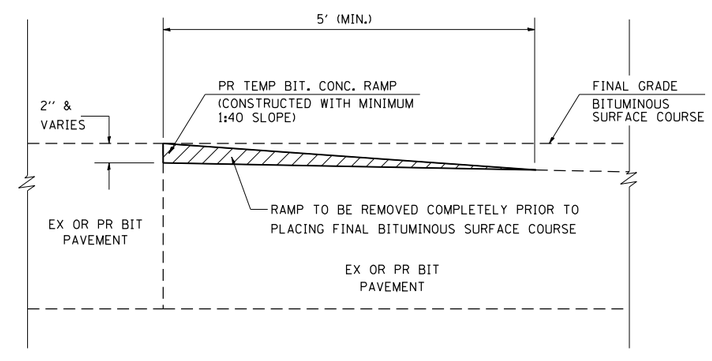
LOCATIONS AS SHOWN ON THE STORM WATER POLLUTION PREVENTION PLANS



BUTT JOINT AT FULL-DEPTH PAVEMENT STUBS

LOCATIONS: STA. 105+00 +/- S.B. LANES (SANGAMON CO.)
STA. 1424+00 +/- N.B. LANES (CHRISTIAN CO.)

NOTE: COST FOR SAW CUTS AND ADDITIONAL BITUMINOUS MATERIALS NECESSARY TO COMPLETE THE BUTT JOINT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAVING ITEMS THIS WORK IS ASSOCIATED WITH.



TEMPORARY RAMPS

LOCATIONS: AS REQUIRED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC OPERATIONS, IN ADDITION TO THE LOCATIONS AS SPECIFIED WITHIN THE MAINTENANCE OF TRAFFIC STAGING PLANS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINTS, RAMP DETAILS AND PROTECTED AREA SIGNING (PRAIRIE GRASS AREAS)

SCALE: N/A DRAWN BY: CMT
DATE: 03/06/2012 CHECKED BY: CMT

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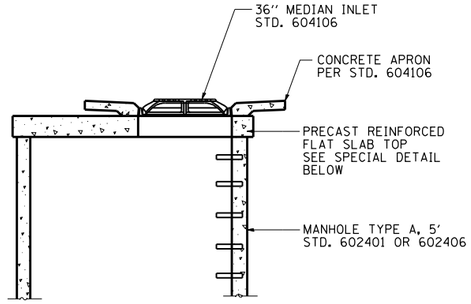
3/16/2012

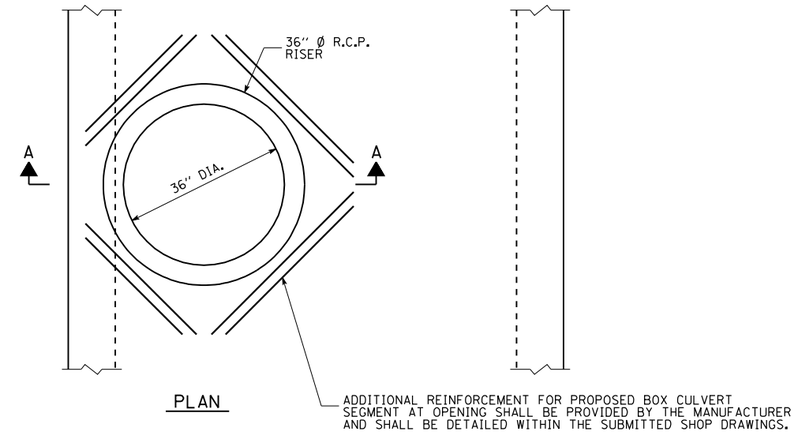
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	475
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

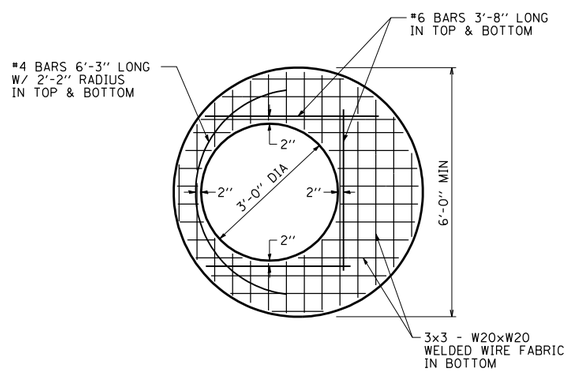
* SANGAMON AND CHRISTIAN



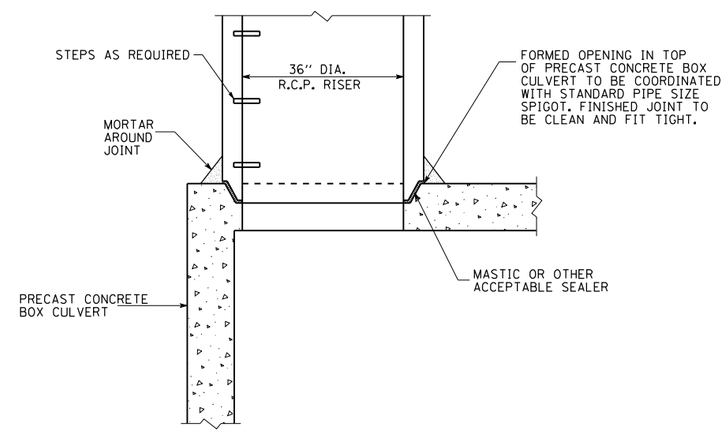
DETAIL OF STANDARD 36" MEDIAN INLET ON FLAT SLAB TOP



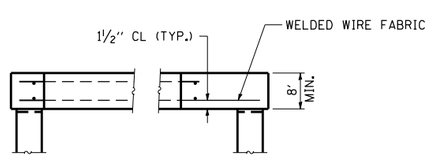
PLAN



5' FLAT SLAB TOP DETAIL WITH 36" OPENING



SECTION A-A



TYPICAL SLAB TOP SECTION FOR 5' MANHOLE

RISER PIPE CONNECTION TO PRECAST BOX CULVERT DETAIL

SEE DRAINAGE PLANS FOR PROPOSED LOCATIONS

COST FOR RISER PIPE CONNECTION
INCLUDED IN HTE COST FOR
THE VARIOUS ITMES INVOLVED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE DETAILS

SCALE: N/A DRAWN BY: CMT

DATE: 03/06/2012 CHECKED BY: CMT

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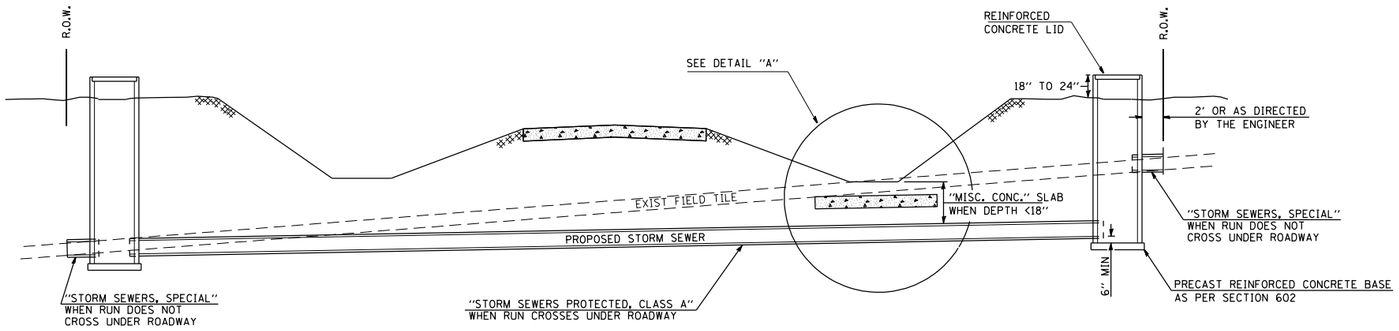
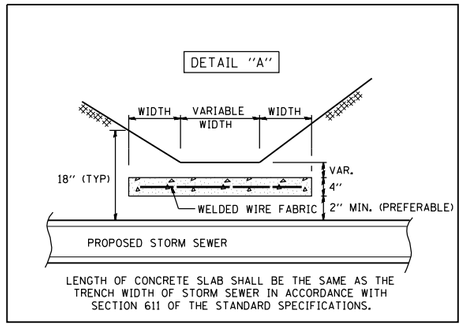
3/16/2012

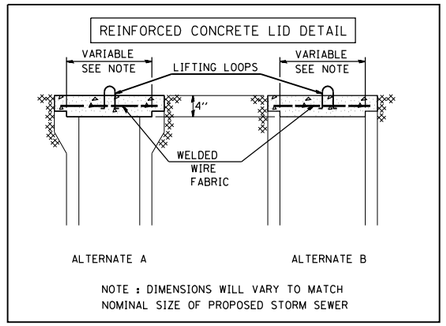
CONTRACT NO. 72829

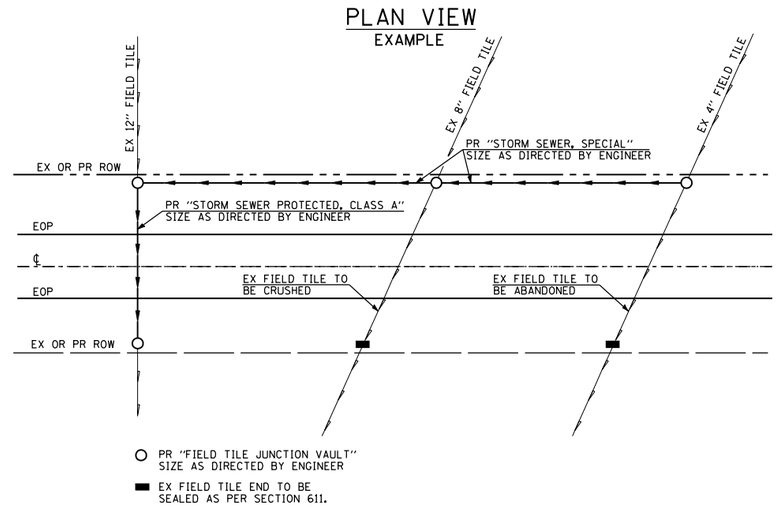
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	476
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

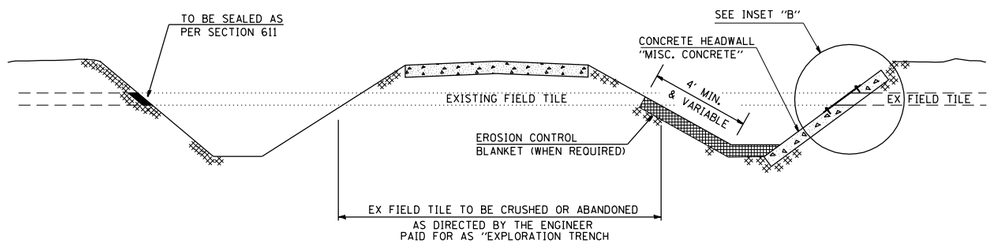
* SANGAMON AND CHRISTIAN

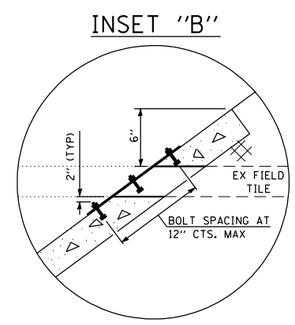


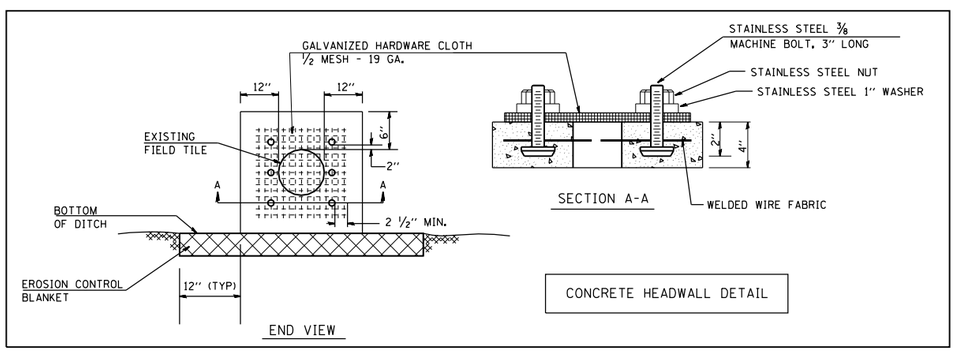












GENERAL NOTES

1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT FOR THIS WORK WILL BE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

2. THE DIAMETER OF THE PROPOSED STORM SEWER SHALL BE EQUAL TO OR GREATER THAN THE EXISTING FIELD TILE.

3. THE REINFORCED CONCRETE LID SHALL BE CLASS SI CONCRETE (MISCELLANEOUS) OR PRECAST REINFORCED CONCRETE.

4. FIELD TILES LESS THAN 7" DIAMETER INTERCEPTED BY THE BACKSLOPE SHALL BE CRUSHED AND REMAIN IN PLACE UNDER THE ROADBED. INTERCEPTED FIELD TILES 7" OR LARGER IN DIAMETER SHALL BE REMOVED AND BACKFILLED IN ACCORDANCE WITH ARTICLE 611.03.

5. FOR DIAMETERS LESS THAN 12" OF "STORM SEWERS PROTECTED, CLASS A", MATERIALS OTHER THAN CONCRETE MAY BE APPROVED WITH APPROVAL BY THE ENGINEER. WHEN USING FLEXIBLE PIPE AS LISTED IN THE FIRST TABLE OF ARTICLE 550.03, THE TRENCH SHALL BE BACKFILLED ACCORDING TO ARTICLE 550.07. ALL "BELLED" PIPE WILL REQUIRE AT LEAST 4" OF AGGREGATE BELOW THE PIPE COVERING THE FULL WIDTH OF THE TRENCH.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS CONSTRUCTION DETAILS - FIELD TILE & PIPE TEE PLUG

SCALE: N/A — DRAWN BY: IDOT D6

DATE: 03/06/2012 — CHECKED BY: IDOT D6

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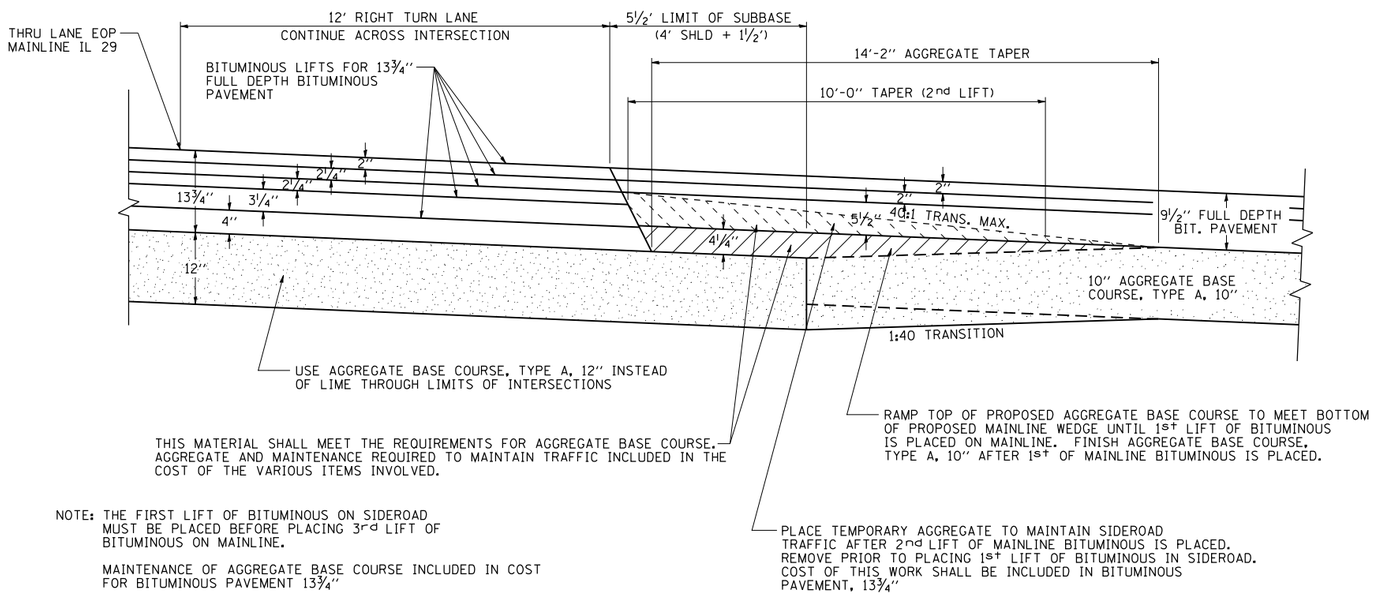
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	477
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN

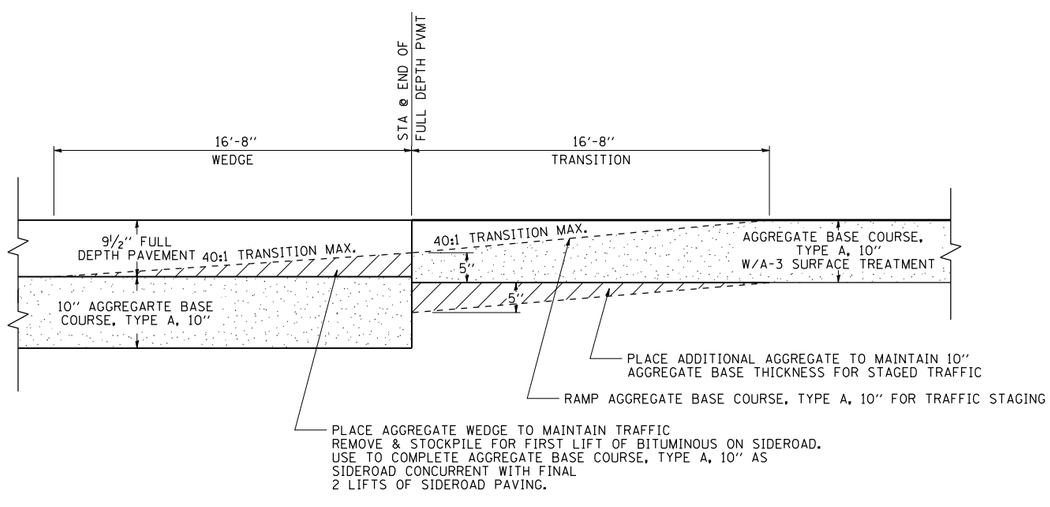


NOTE: THE FIRST LIFT OF BITUMINOUS ON SIDEROAD MUST BE PLACED BEFORE PLACING 3rd LIFT OF BITUMINOUS ON MAINLINE.

MAINTENANCE OF AGGREGATE BASE COURSE INCLUDED IN COST FOR BITUMINOUS PAVEMENT 13¾"

MAINLINE/SIDEROAD STAGED CONSTRUCTION TRANSITION

N.T.S.



SIDEROAD BITUMINOUS/A-3 SURFACE STAGED CONSTRUCTION TRANSITION

N.T.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETAILS
ILLINOIS RTE. 29

SCALE: N/A — DRAWN BY: R.A.H.

DATE: 03/06/2012 — CHECKED BY: J.M.M.

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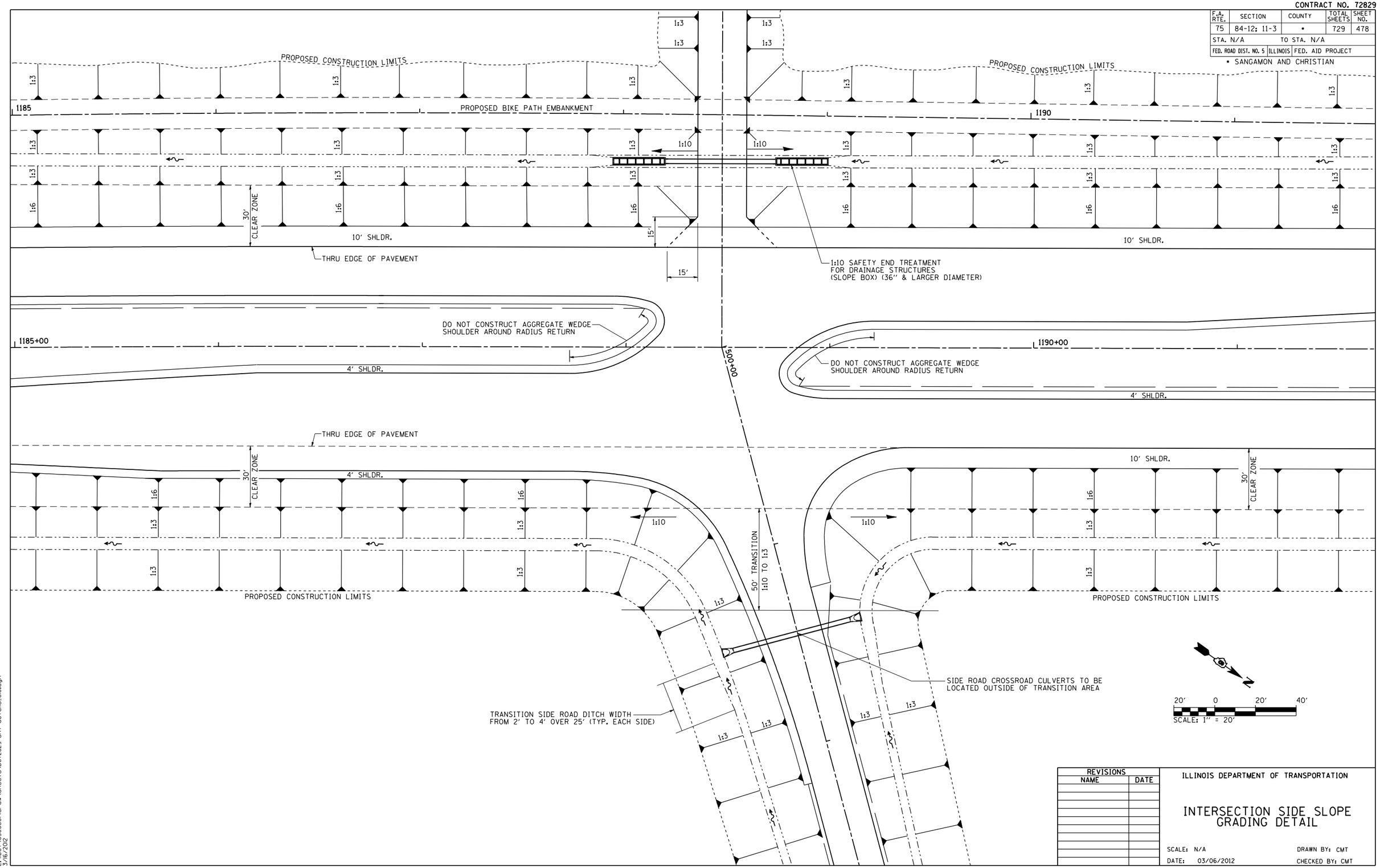
3/6/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	478
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION SIDE SLOPE GRADING DETAIL

SCALE: N/A — DRAWN BY: CMT

DATE: 03/06/2012 — CHECKED BY: CMT

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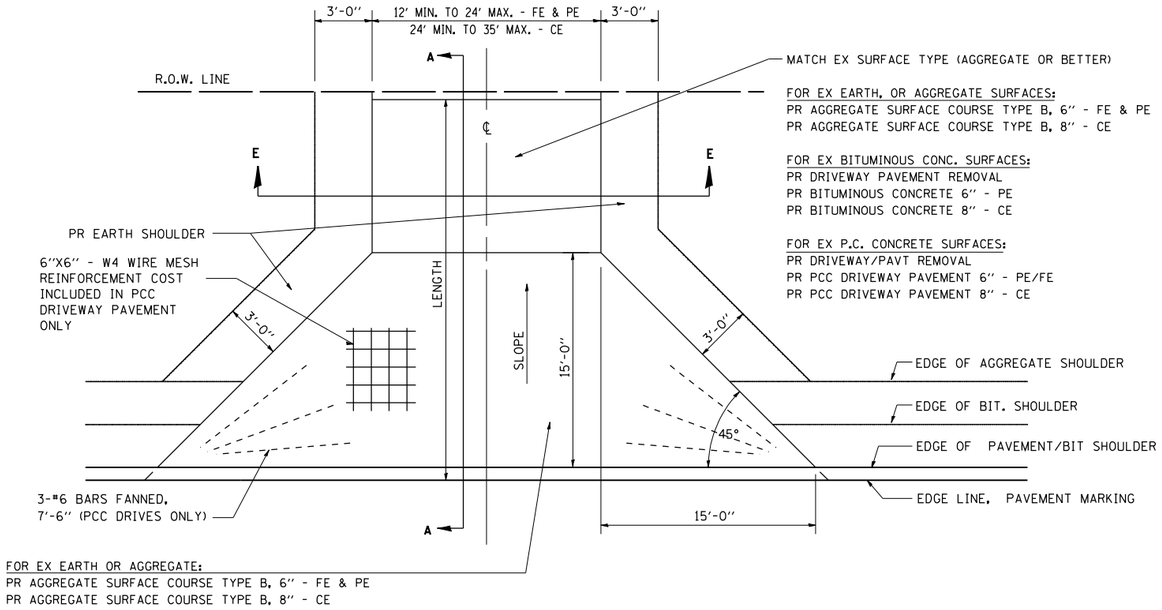
3/6/2012

MISCELLANEOUS CONSTRUCTION DETAILS

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	479
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



PLAN VIEW

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

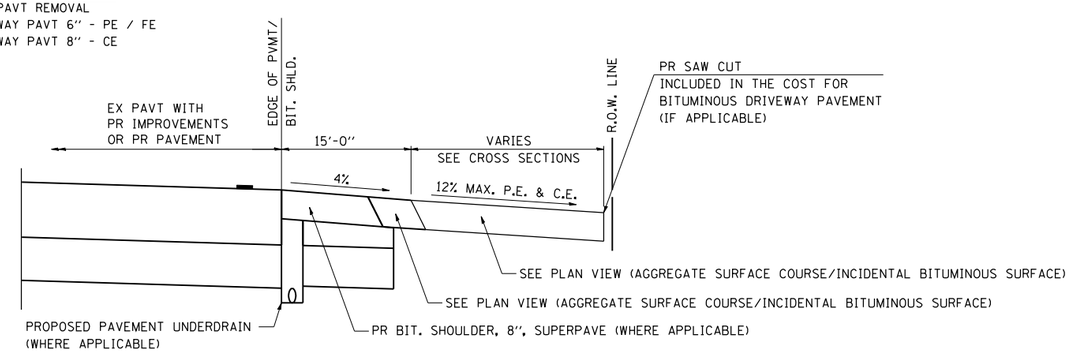
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

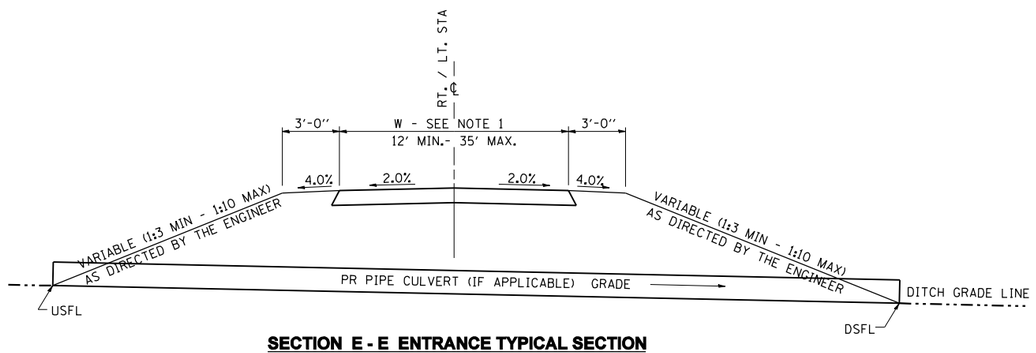
BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRES PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE CONSTRUCTED IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

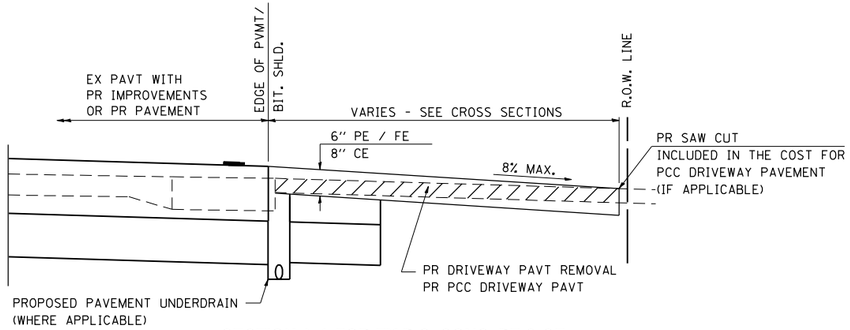


SECTION A-A FOR BITUMINOUS/AGGREGATE FE, CE & PE



SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.



SECTION A-A FOR EX P.C. CONC. PE & CE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCE DETAILS

SCALE: N/A — DRAWN BY: CMT

DATE: 03/06/2012 — CHECKED BY: CMT

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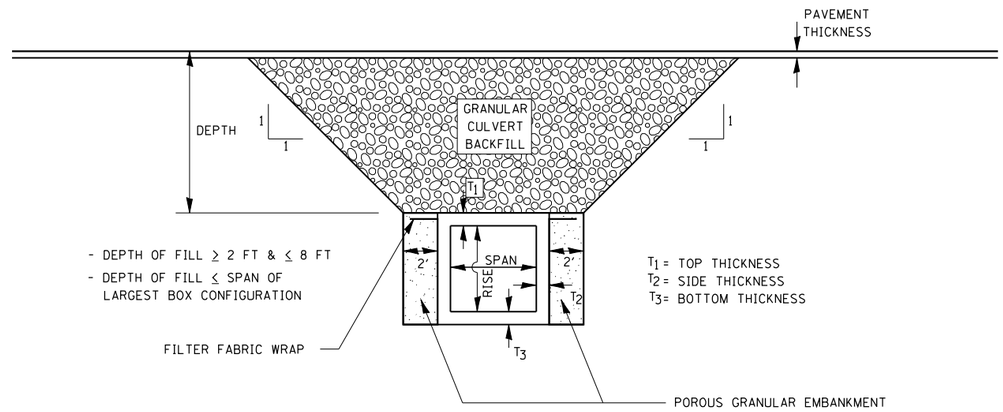
3/16/2012

MISCELLANEOUS CONSTRUCTION DETAILS

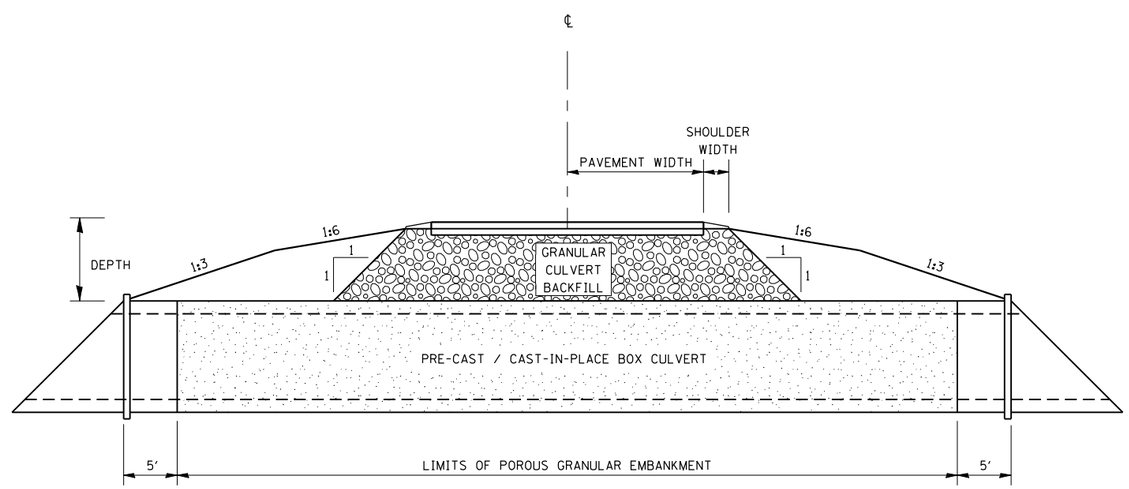
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	480
STA.		TO STA.		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



CULVERT BACKFILL DETAIL



- DEPTH OF FILL ≥ 2 FT & ≤ 8 FT
- DEPTH OF FILL ≤ SPAN OF LARGEST BOX CONFIGURATION

CROSS SECTION CULVERT BACKFILL DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT BACKFILL DETAIL
TO TOP OF BOX CULVERT

SCALE: N/A
DRAWN BY: IDK
DATE: 03/06/2012
CHECKED BY: CMT

Granular Backfill Details.dgn

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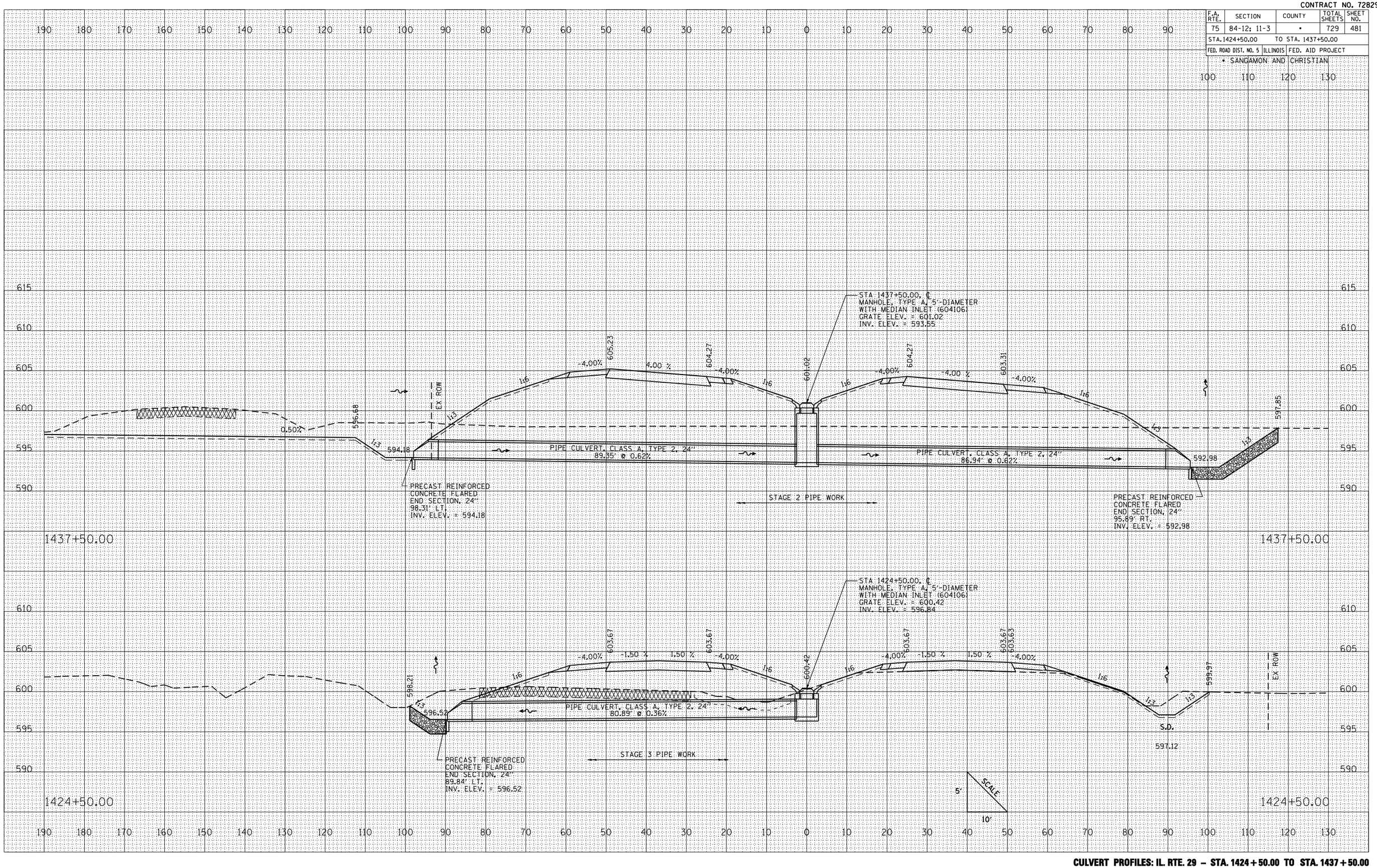
3/16/2012

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	481
STA. 1424+50.00	TO STA. 1437+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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SURVEYED		
PLOTTED		
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NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
SUBMITTED		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

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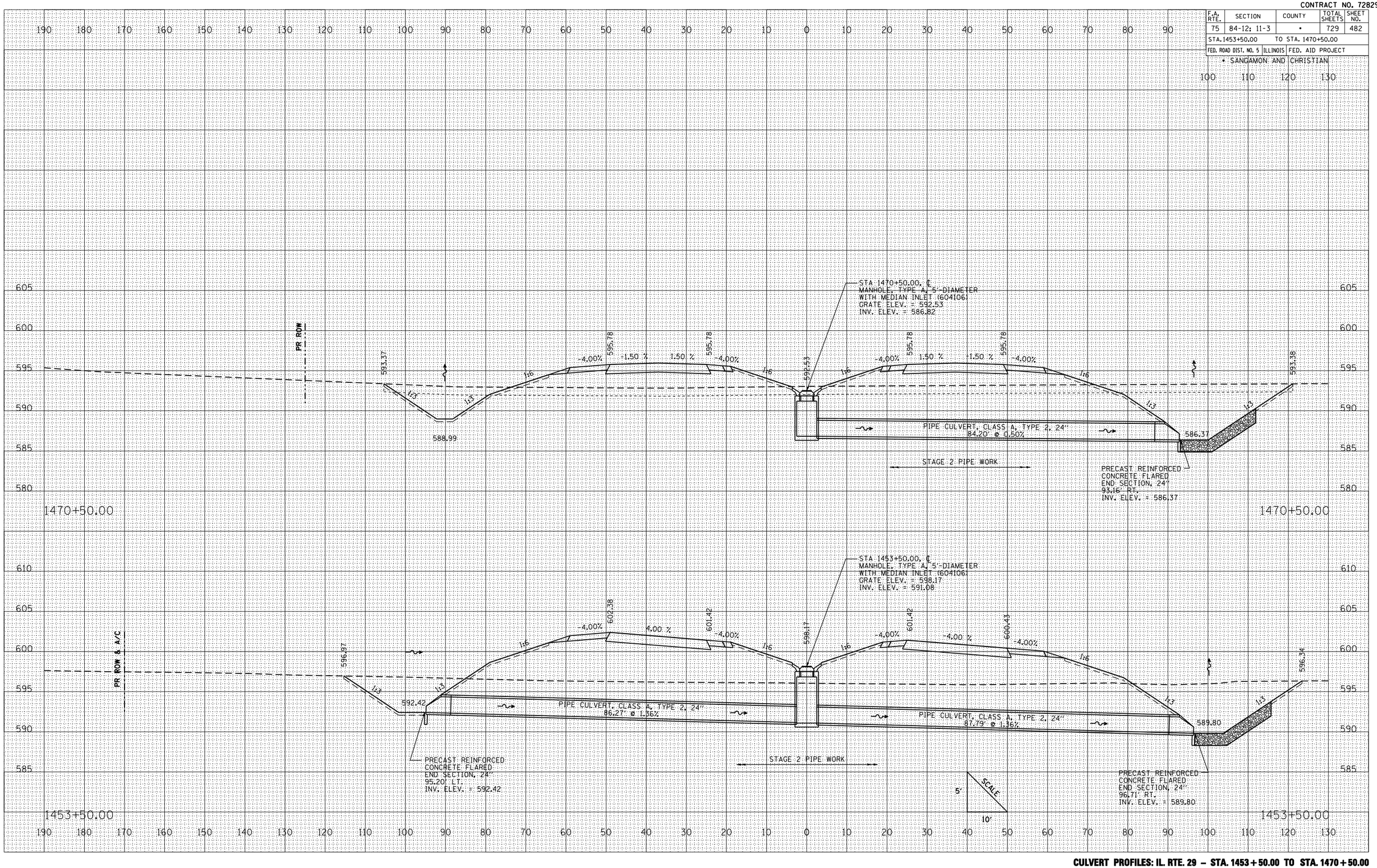
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 1424+50.00 TO STA. 1437+50.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	482
STA. 1453+50.00	TO STA. 1470+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 1453+50.00 TO STA. 1470+50.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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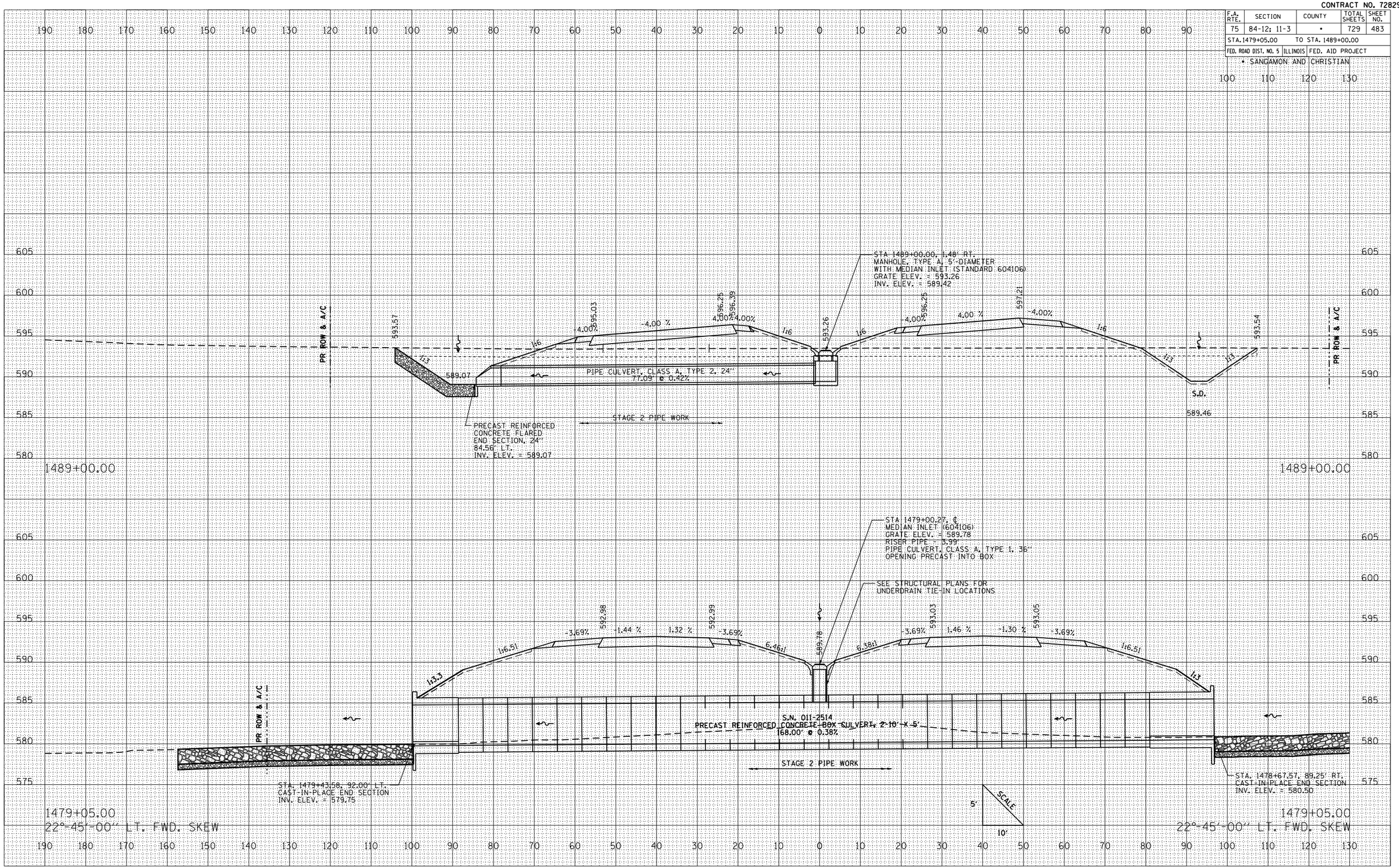
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	483
STA. 1479+05.00	TO STA. 1489+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



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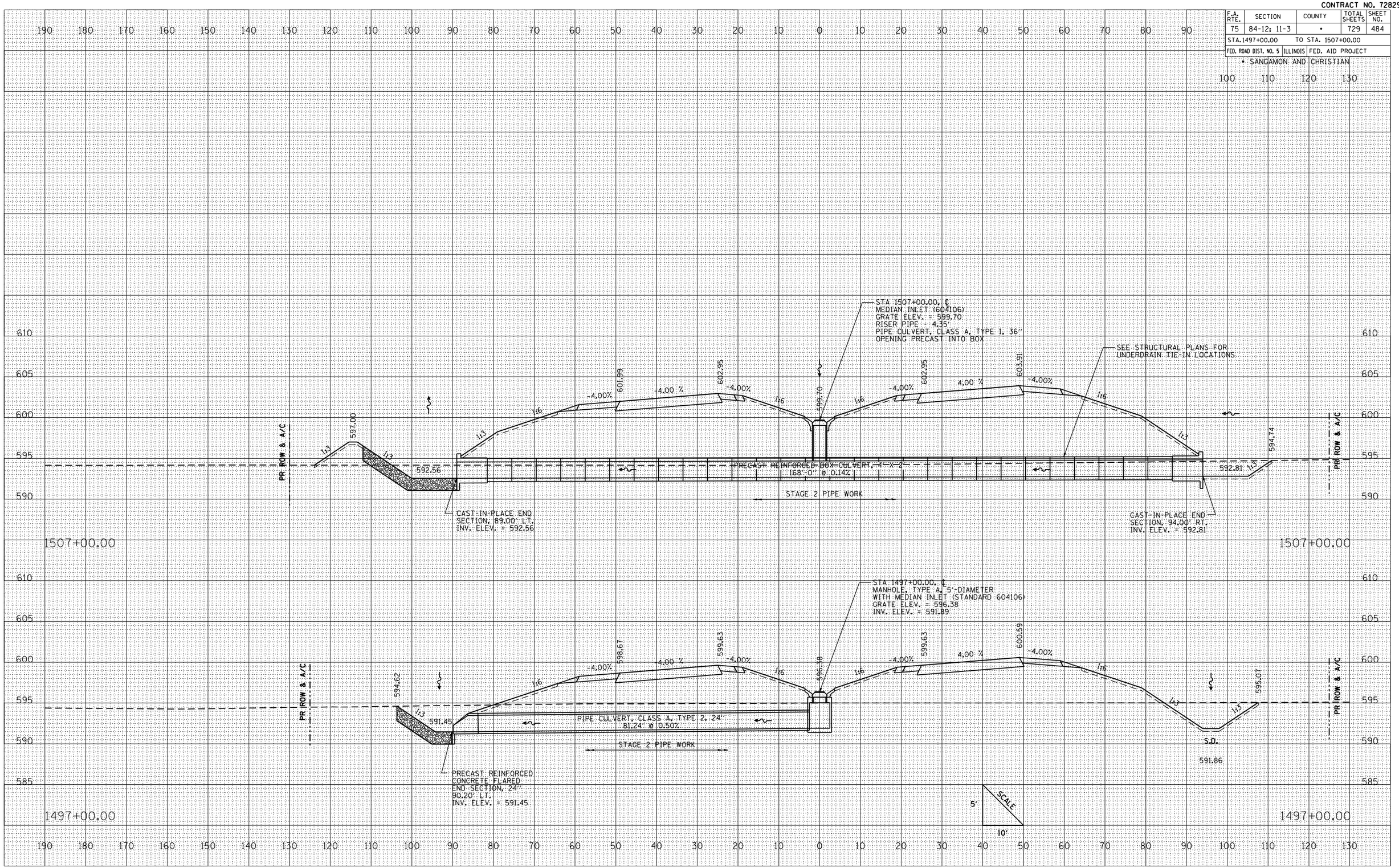
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 1479+05.00 TO STA. 1489+00.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	484
STA. 1497+00.00	TO STA. 1507+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 1497 + 00.00 TO STA. 1507 + 00.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
SUBMITTED		
NOTE BOOK	AREAS	
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NO.		

ORIGINAL SURVEY	BY	DATE
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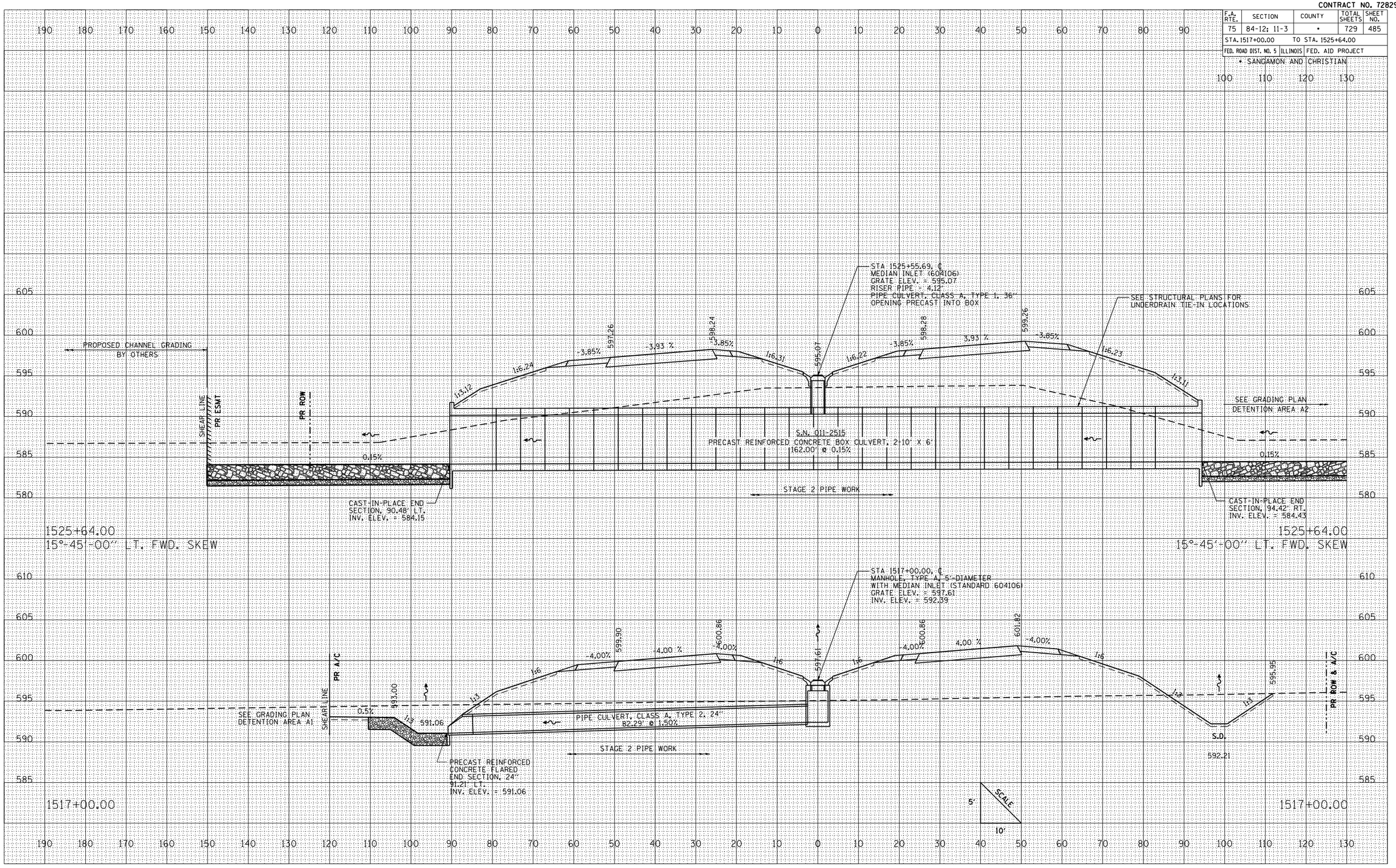
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	485
STA. 1517+00.00	TO STA. 1525+64.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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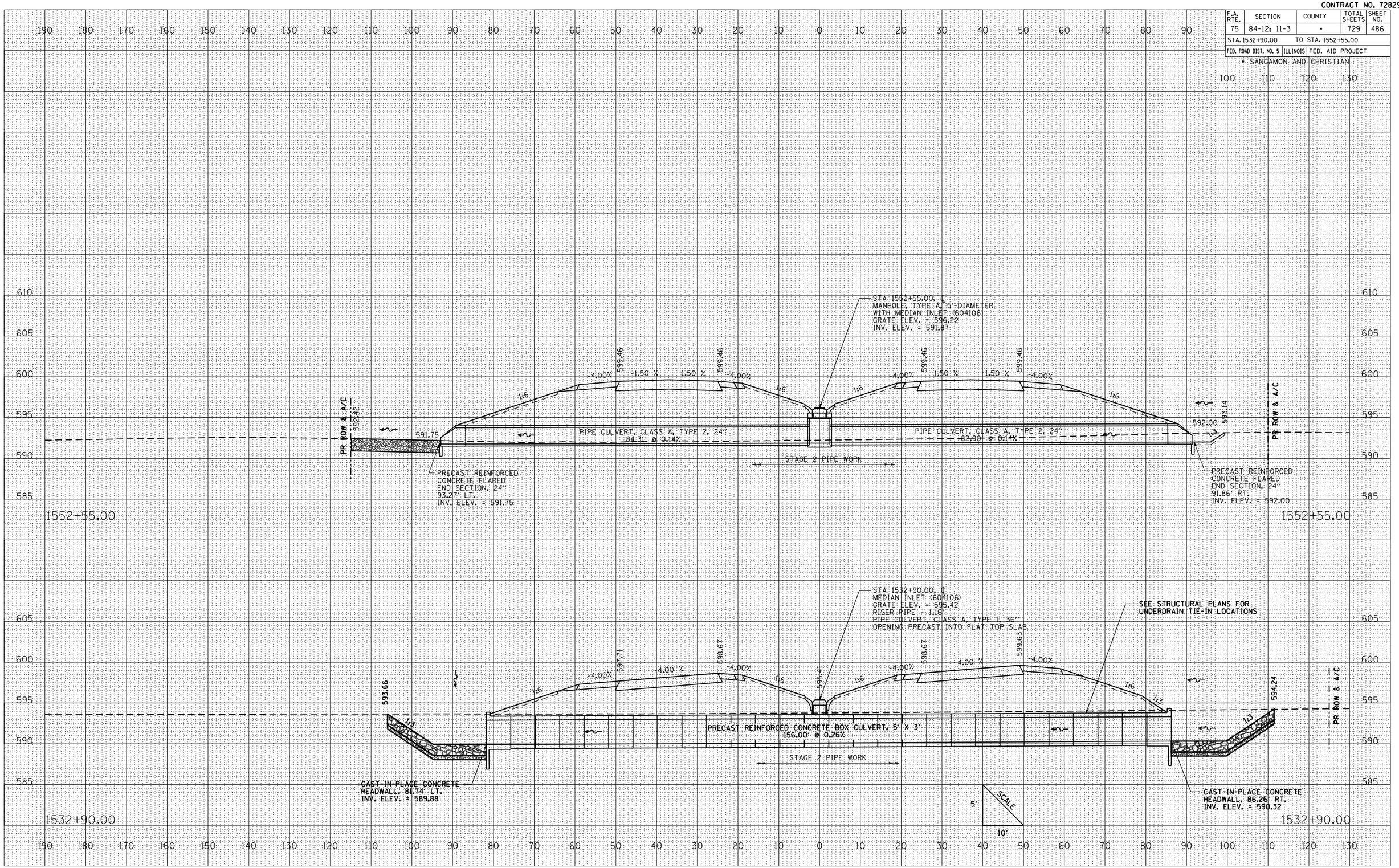
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 1517+00.00 TO STA. 1525+64.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12: 11-3	•	729	486
STA. 1532+90.00	TO STA. 1552+55.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 1532+90.00 TO STA. 1552+55.00

FINAL SURVEY	BY	DATE
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NO. AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
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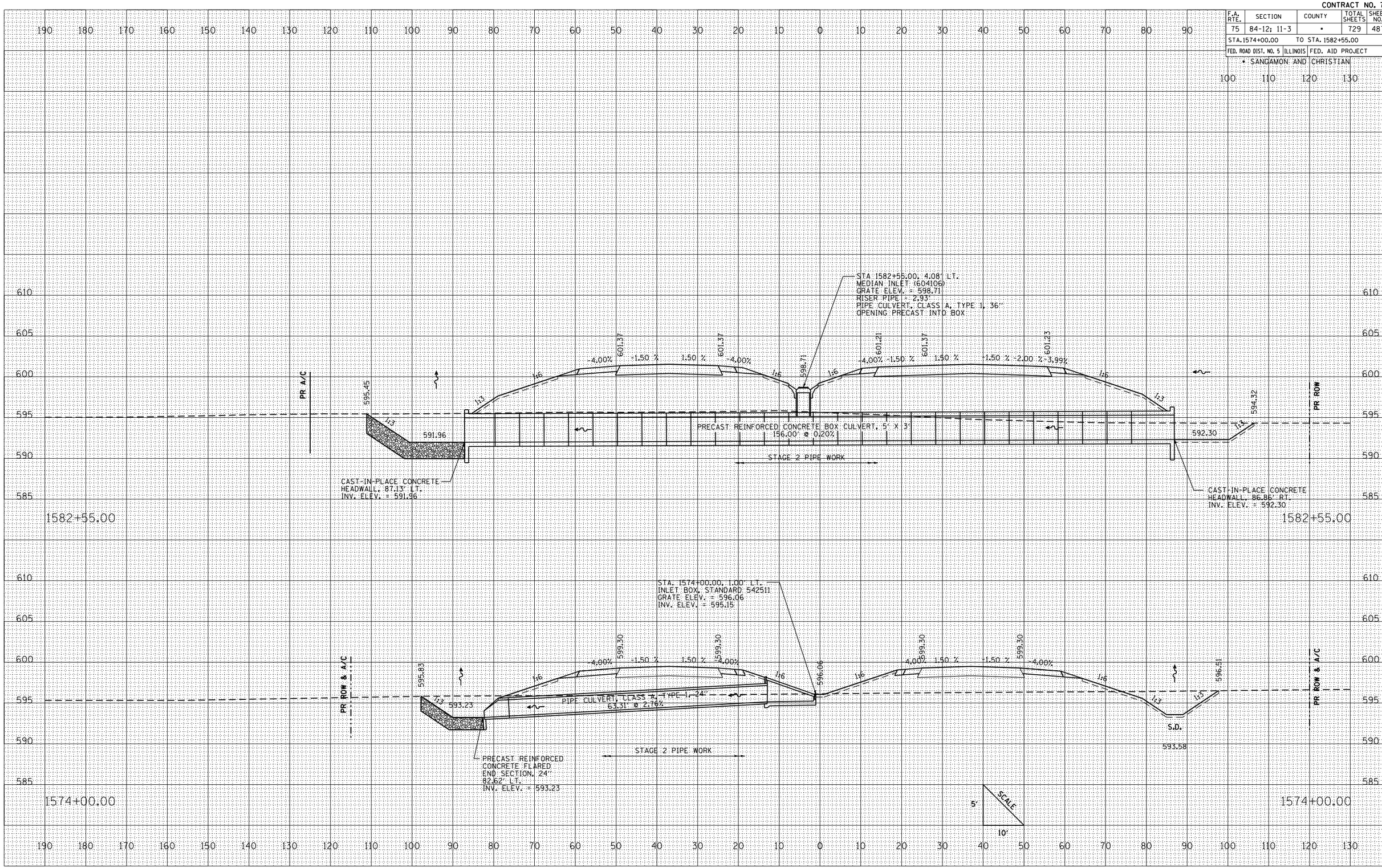
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	487
STA. 1574+00.00	TO STA. 1582+55.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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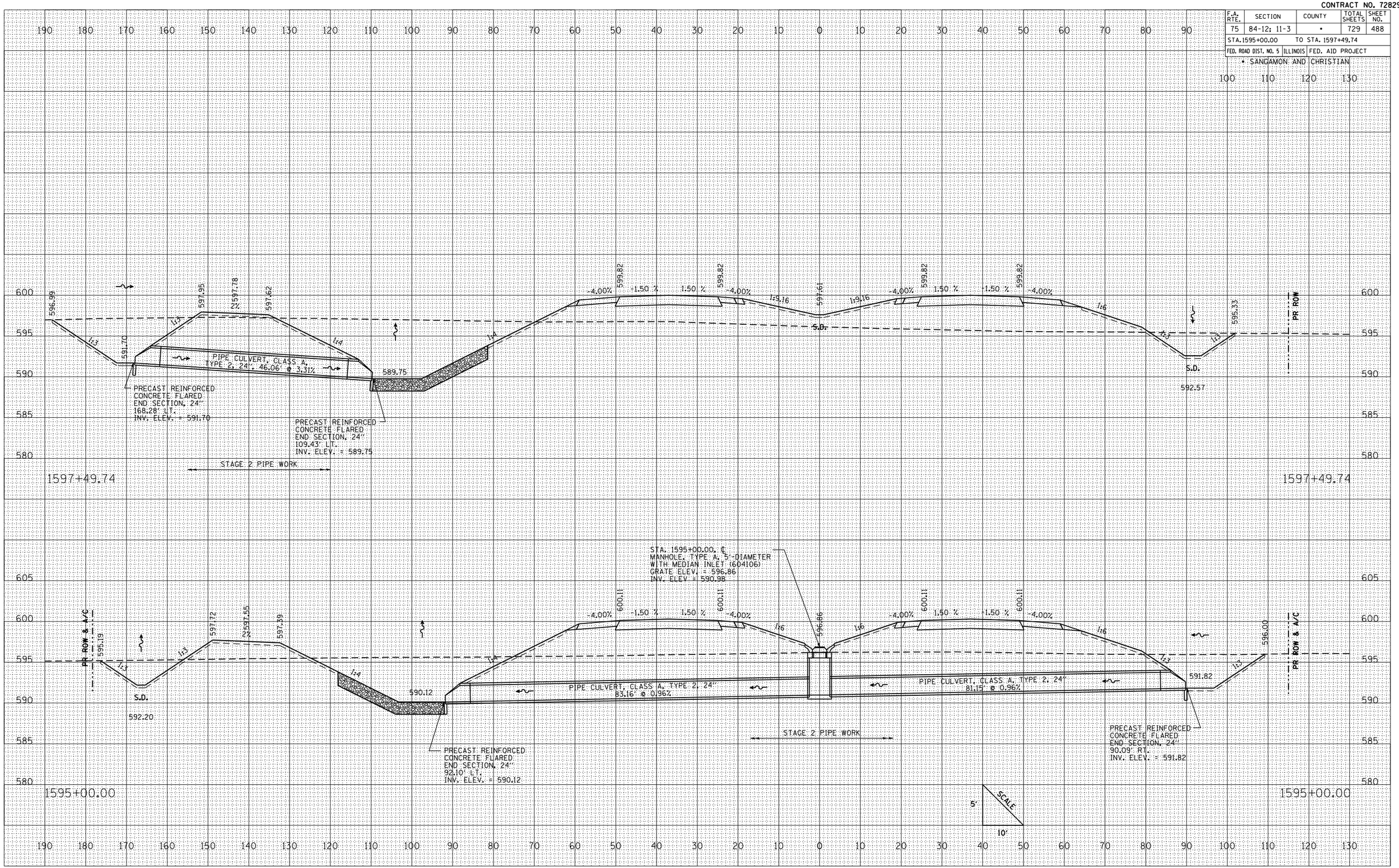
CULVERT PROFILES: IL. RTE. 29 – STA. 1574+00.00 TO STA. 1582+55.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	488
STA. 1595+00.00	TO STA. 1597+49.74			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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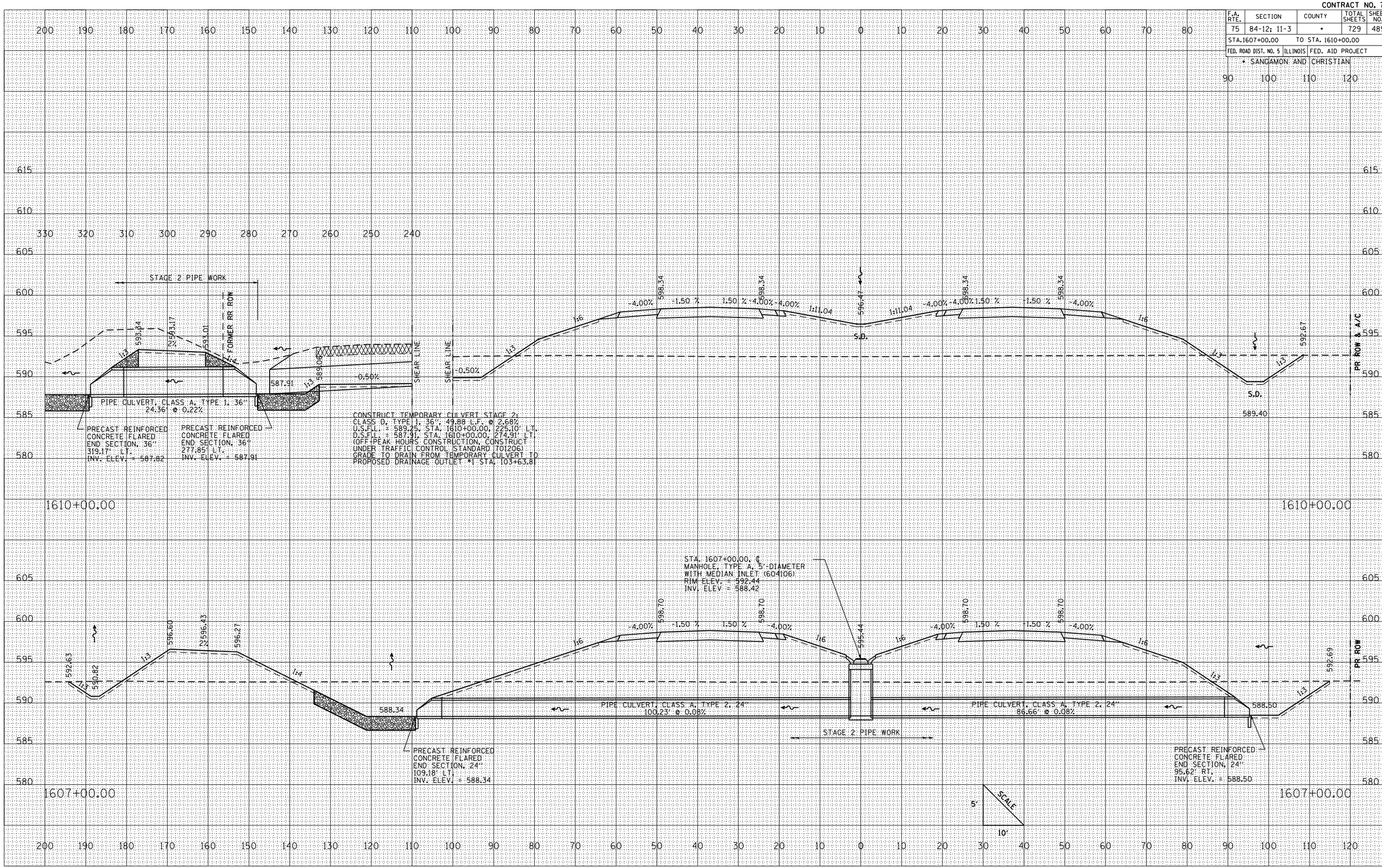
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 1595 + 00.00 TO STA. 1597 + 49.74

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	489
STA. 1607+00.00	TO STA. 1610+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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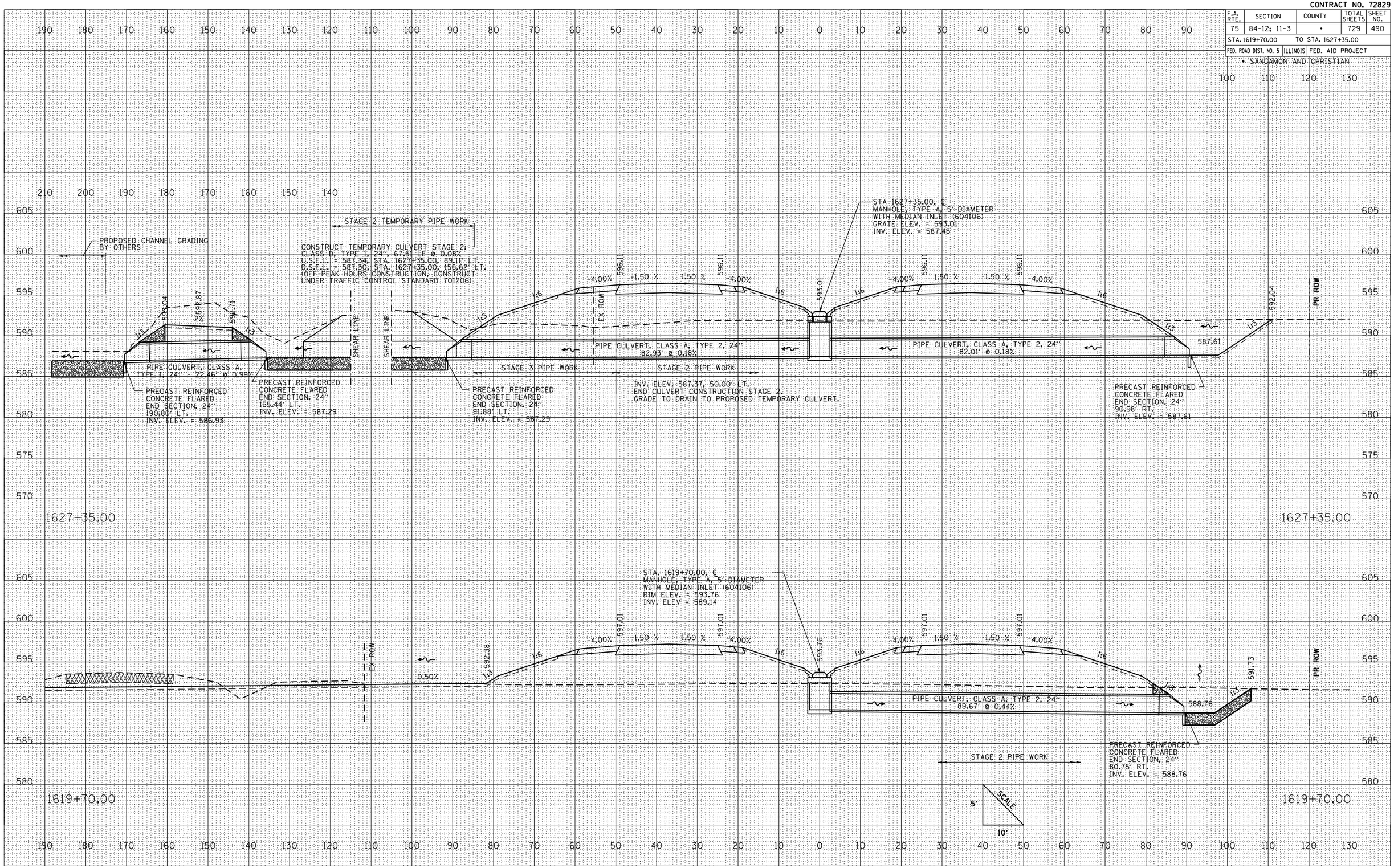
CULVERT PROFILES: IL. RTE. 29 – STA. 1607+00.00 TO STA. 1610+00.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	490
STA. 1619+70.00		TO STA. 1627+35.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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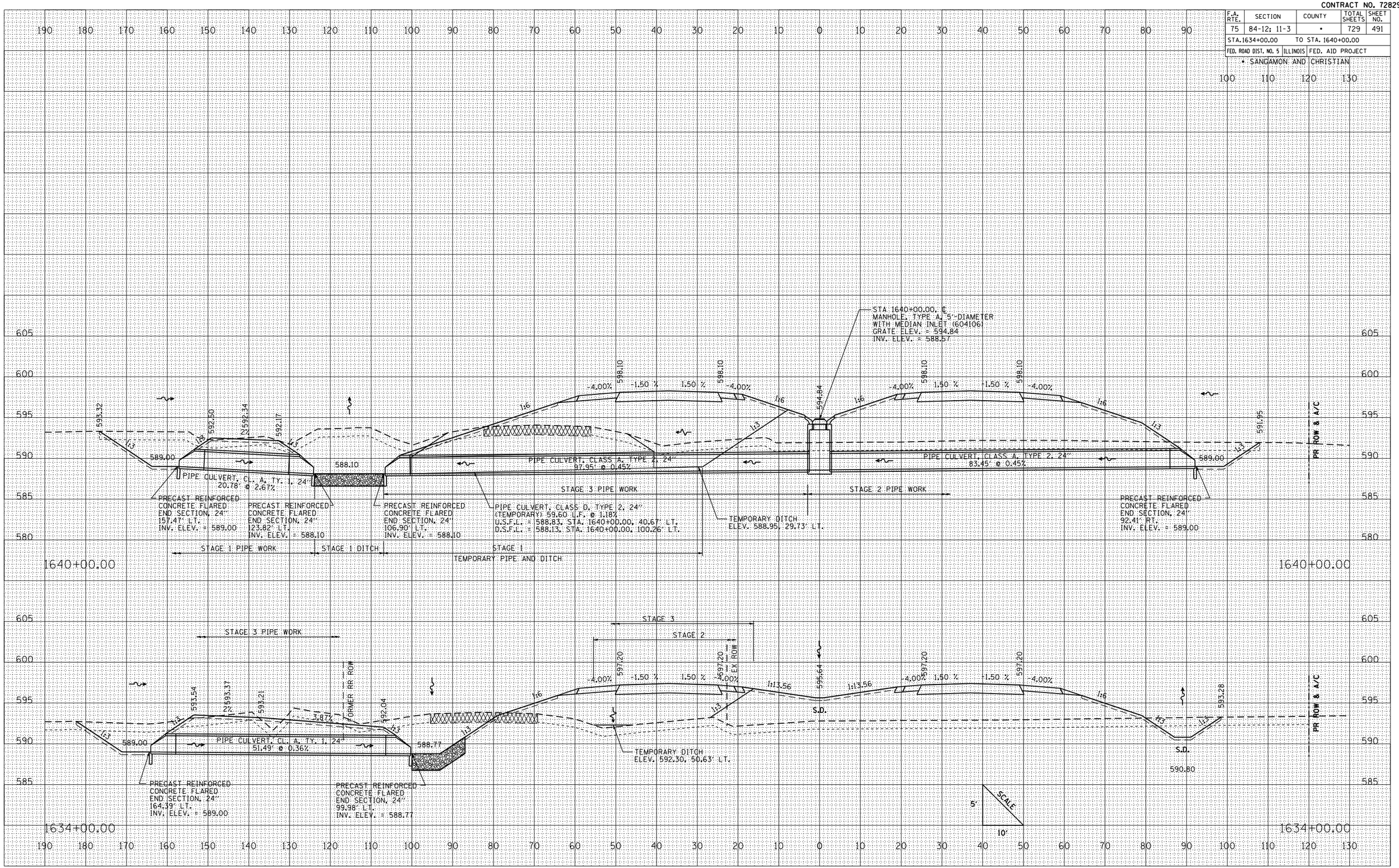
CULVERT PROFILES: IL. RTE. 29 – STA. 1619 + 70.00 TO STA. 1627 + 35.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	491
STA. 1634+00.00		TO STA. 1640+00.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



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NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

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NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

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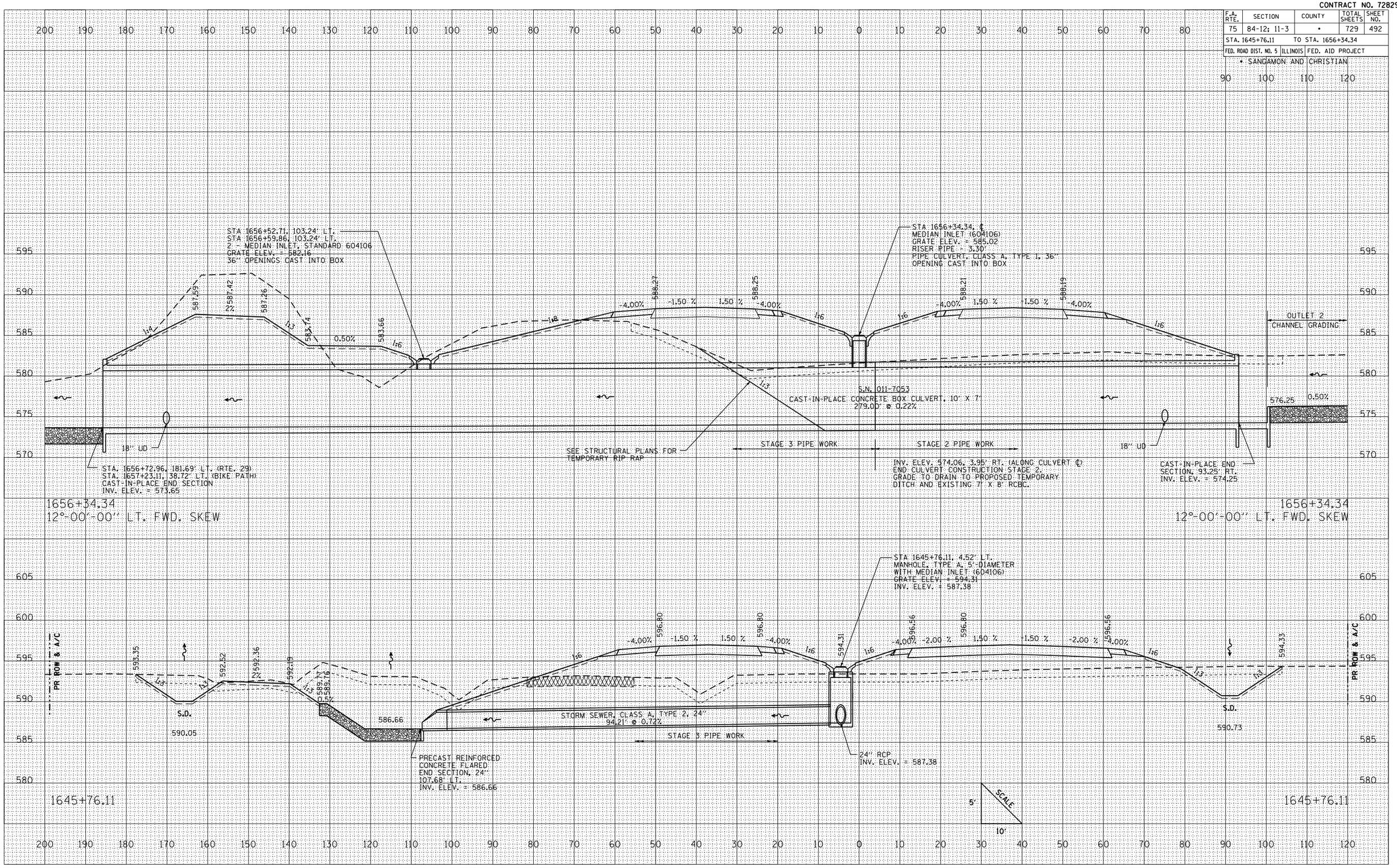
CULVERT PROFILES: IL. RTE. 29 – STA. 1634+00.00 TO STA. 1640+00.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	492
STA. 1645+76.11		TO STA. 1656+34.34		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



NO.	FINAL SURVEY	BY	DATE
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	AREAS		
	AREAS CHECKED		

NO.	ORIGINAL SURVEY	BY	DATE
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	PLOTTED		
	TABULATED		
	AREAS		
	AREAS CHECKED		

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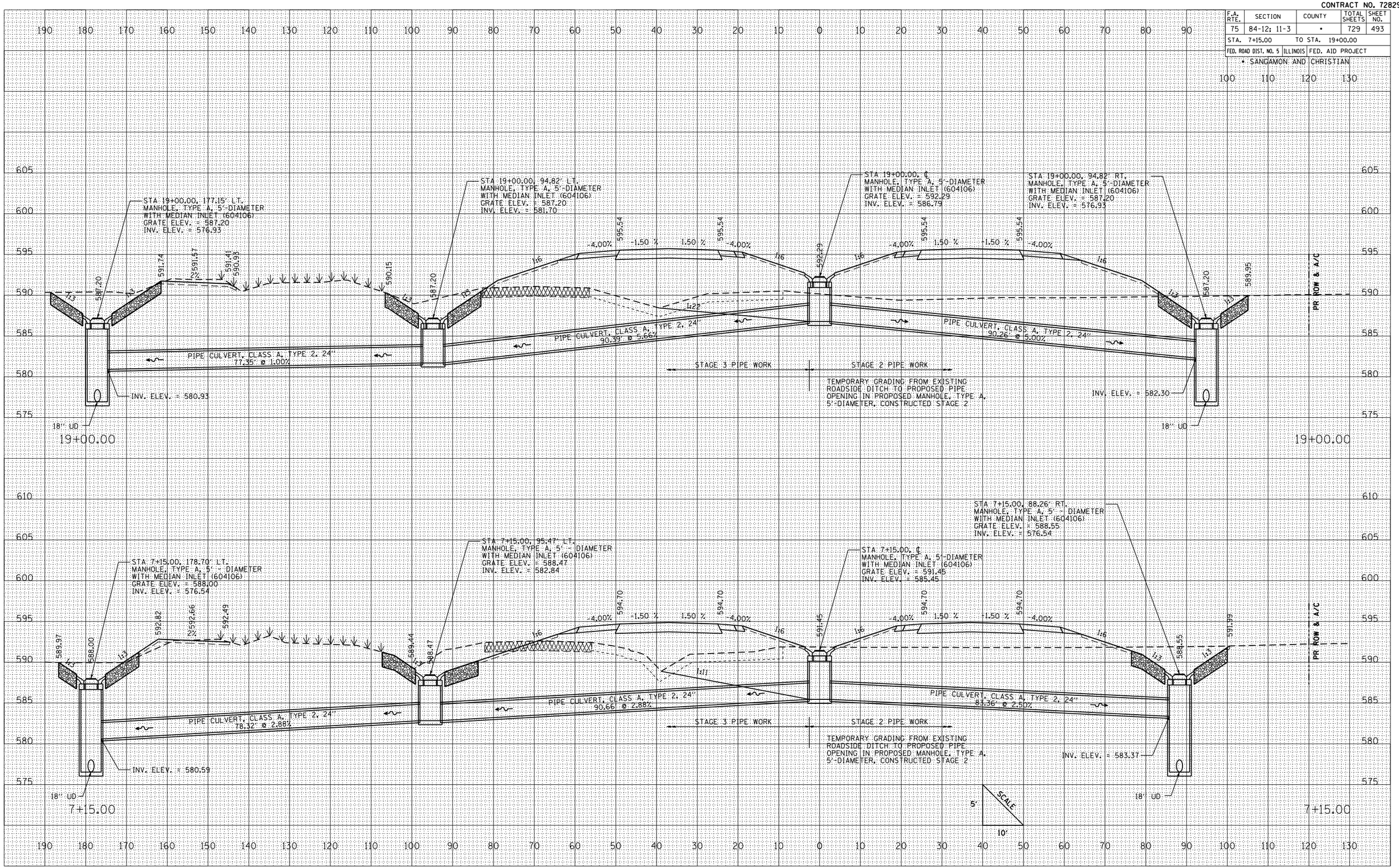
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 1645+76.11 TO STA. 1656+34.34

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	493
STA. 7+15.00		TO STA. 19+00.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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NOTE BOOK		
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AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
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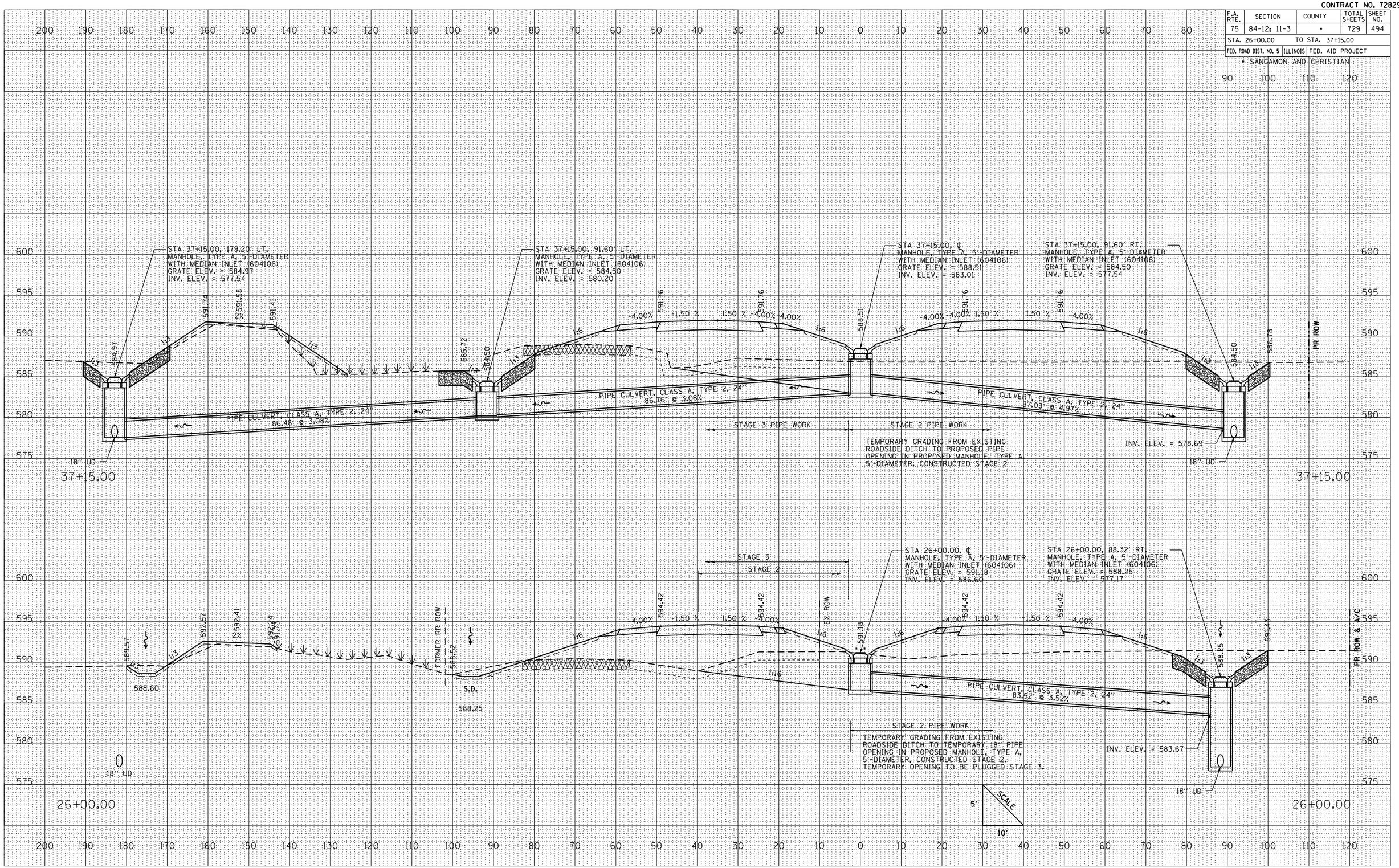
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 7+15.00 TO STA. 19+00.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	494
STA. 26+00.00		TO STA. 37+15.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 26+00.00 TO STA. 37+15.00

FINAL SURVEY	BY	DATE
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PLOTTED		
TABULATED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
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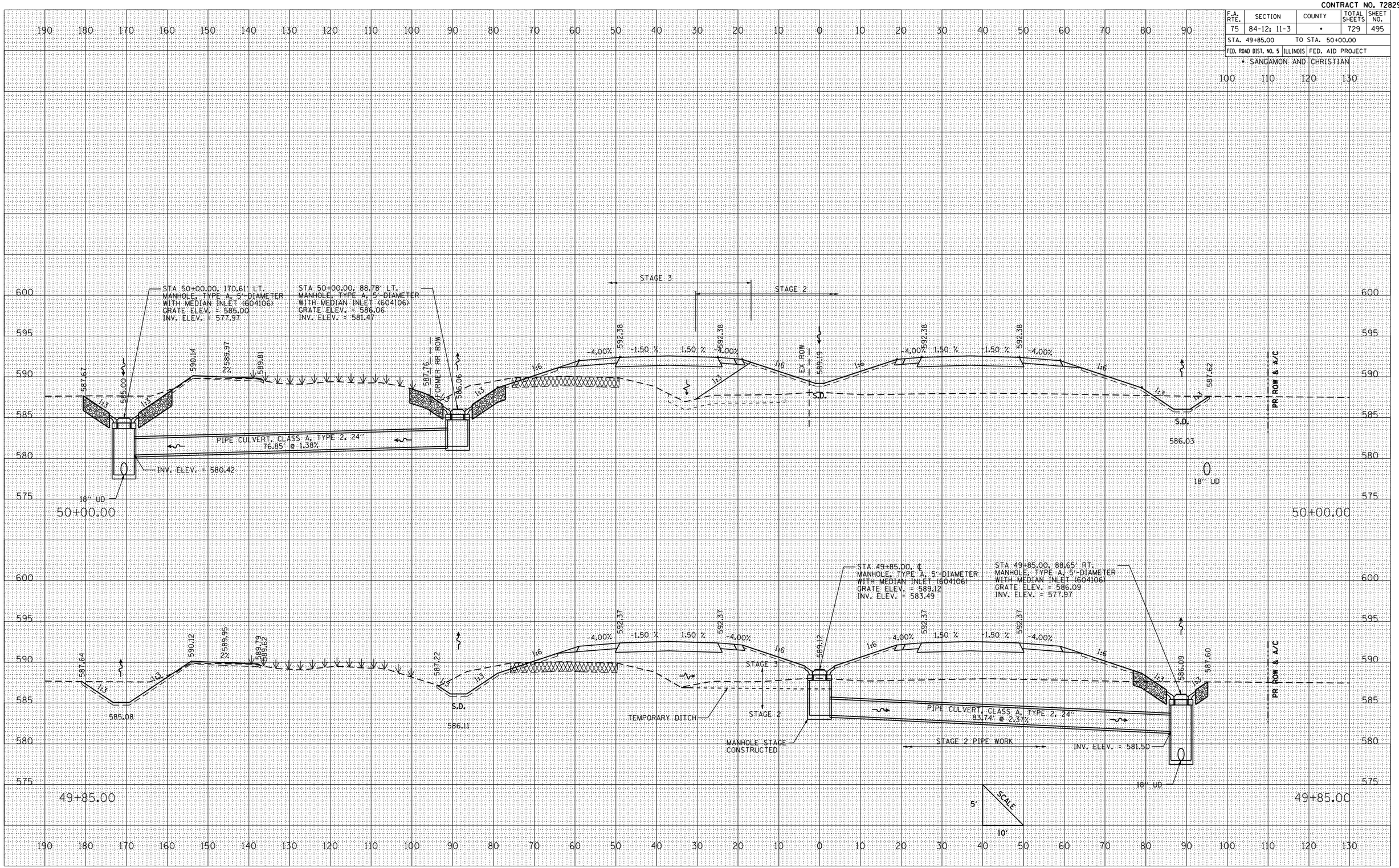
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	495
STA. 49+85.00	TO STA. 50+00.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 49+85.00 TO STA. 50+00.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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NOTE BOOK	AREAS	
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NO.		

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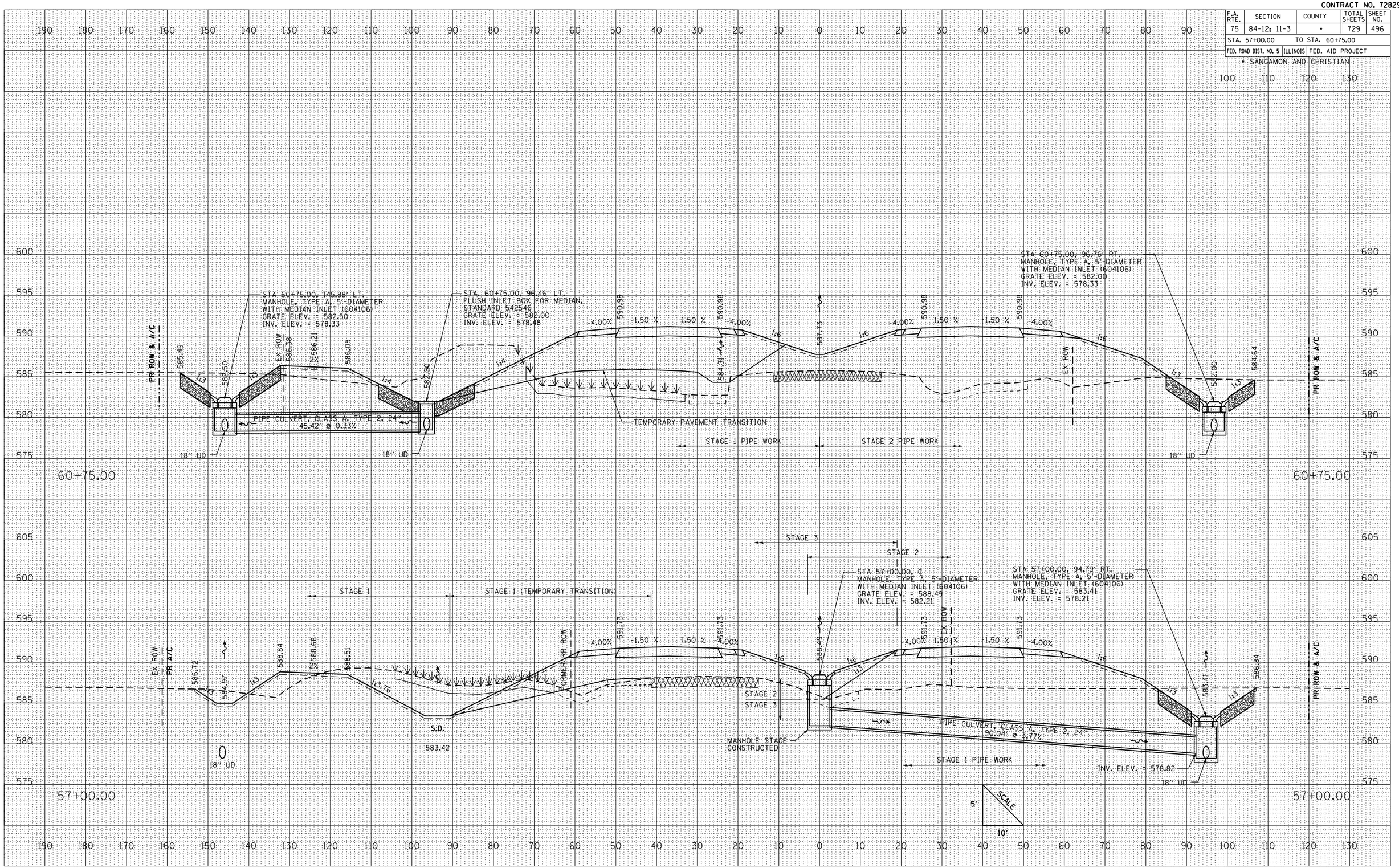
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	496
STA. 57+00.00		TO STA. 60+75.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 57+00.00 TO STA. 60+75.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
SUBMITTED		
NOTE BOOK	AREAS	CHECKED
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
SUBMITTED		
NOTE BOOK	AREAS	CHECKED
NO.		

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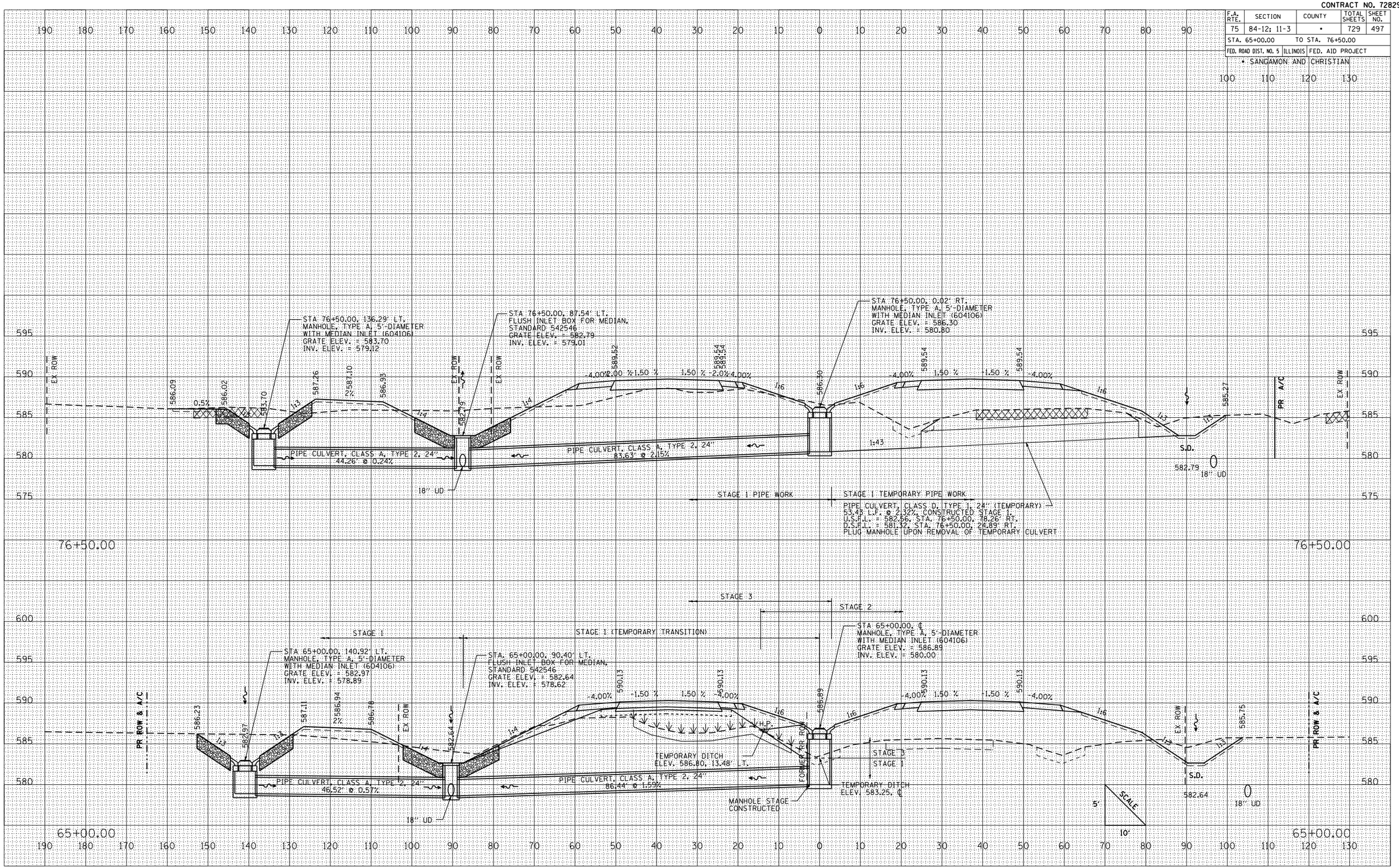
CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	•	729	497
STA. 65+00.00		TO STA. 76+50.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

• SANGAMON AND CHRISTIAN



CULVERT PROFILES: IL. RTE. 29 – STA. 65+00.00 TO STA. 76+50.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
SUBMITTED		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
SUBMITTED		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

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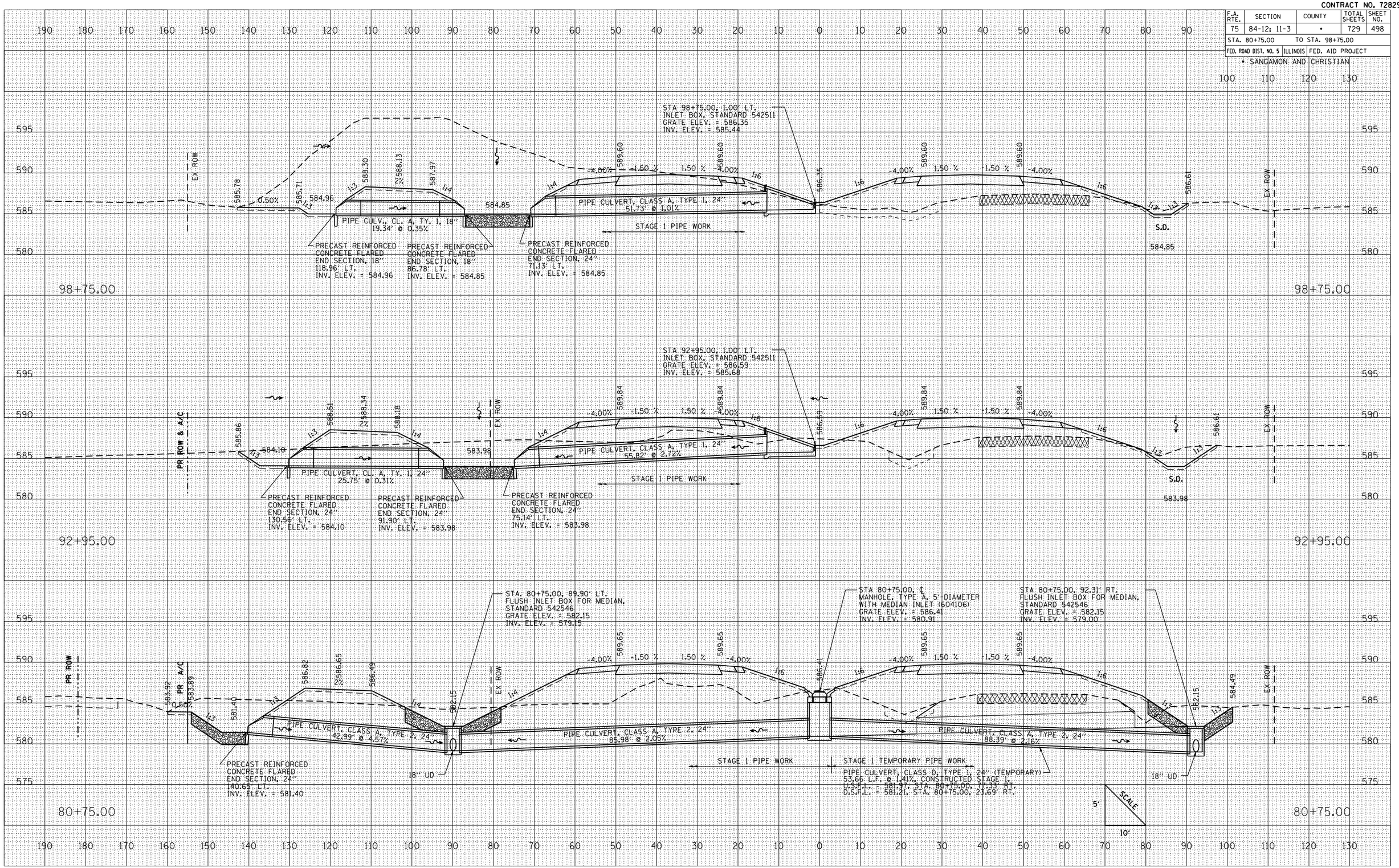
REFERENCE = REF

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	498
STA. 80+75.00		TO STA. 98+75.00		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
SUBMITTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
SUBMITTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

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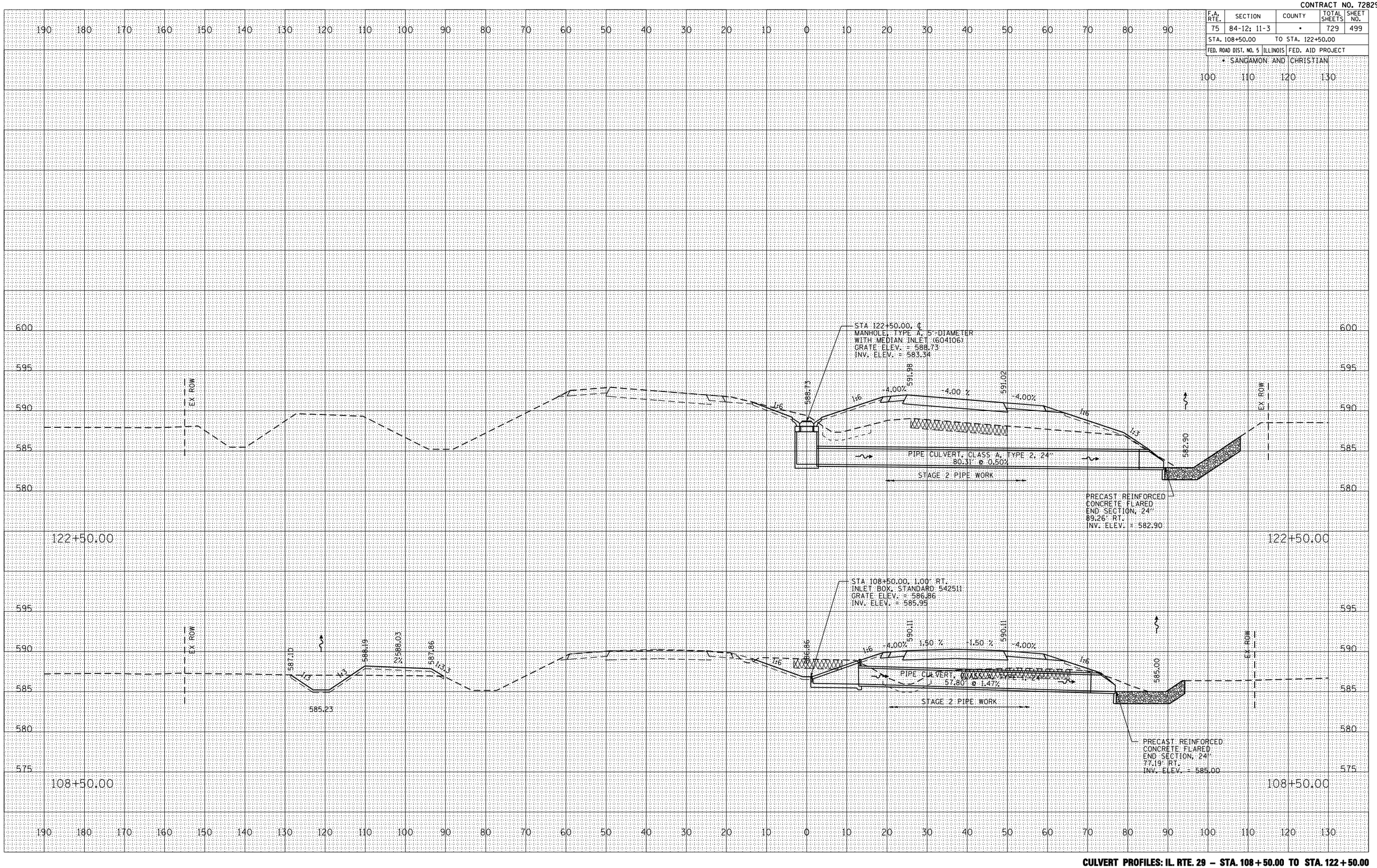
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 80+75.00 TO STA. 98+75.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	499
STA. 108+50.00	TO STA. 122+50.00			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS		
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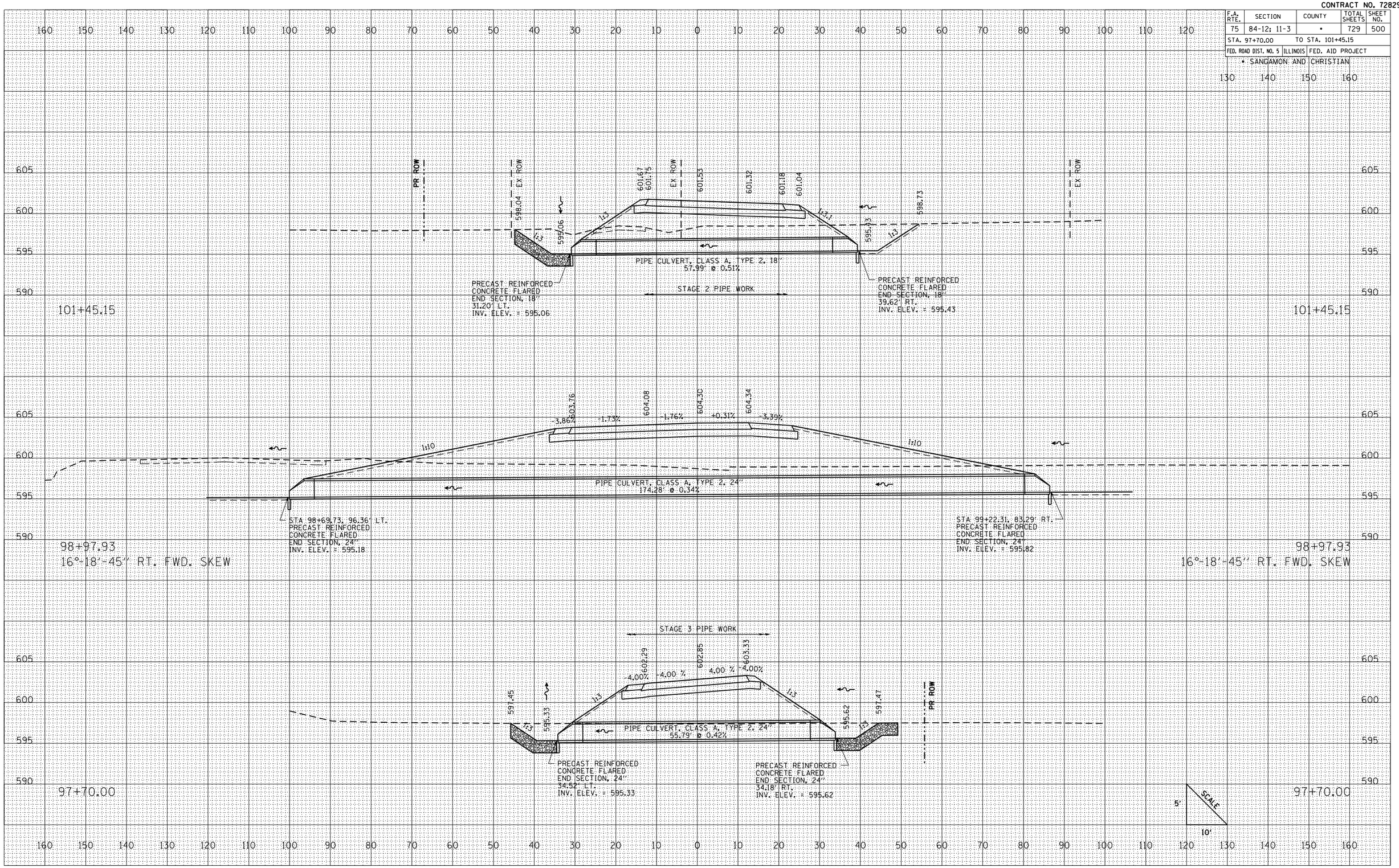
REFERENCE = REF

CULVERT PROFILES: IL. RTE. 29 – STA. 108 + 50.00 TO STA. 122 + 50.00

CONTRACT NO. 72829

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	500
STA. 97+70.00		TO STA. 101+45.15		
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

* SANGAMON AND CHRISTIAN



FINAL SURVEY	BY	DATE
SURVEYED		
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SUBMITTED		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
SUBMITTED		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

PLOT DATE = 3/16/2012
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CULVERT PROFILES: TR 81 (2000 N)