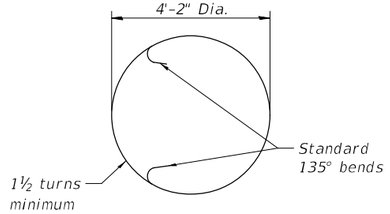
BILL OF MATERIAL - PIER 7

	Bar	No.	Size	Length	Shape
	h700(E)	10	#9	42'-4"	
	p700(E)	12	#11	42'-4"	
	p701(E)	12	#11	47'-8"	
	p702(E)	20	#6	6'-11"	
	s700(E)	180	#6	17'-6"	
	s701(E)	40	#6	11'-1"	
	sh700(E)	20	#6	21'-0"	
*	sp700	4	#6	79'-0"	
*	sp701	4	#6	17'-0"	
*	sp702(E)	4	#6	47'-9"	
	u700(E)	12	#6	16'-6"	
	v700	56	#11	49'-0"	
	v701	56	#11	51'-0"	
	v702	112	#11	50'-0"	
	v703(E)	56	#11	47'-1"	
	v704(E)	56	#11	45'-1"	
	Concrete Structures		CU YD	160.5	
	Reinforcement Bars, Epoxy Coated		POUND	50,250	
	Reinforcement Bars		POUND	76,170	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	371	
	Drilled Shaft in Soil		CU YD	264.6	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,536	
	Crosshole Sonic Logging Testing		EACH	4	

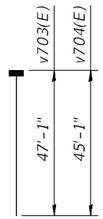
* Length is height of spiral.

BAR p701(E)

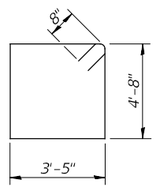


BAR sh700(E)
(Seismic Hoop)

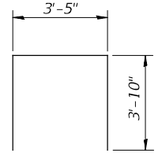
Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.



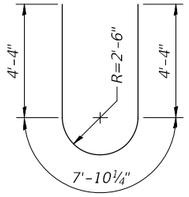
BARS v703(E) & v704(E)
(Headed)



BAR s700(E)

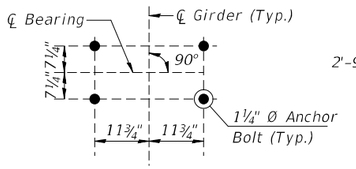


BAR s701(E)

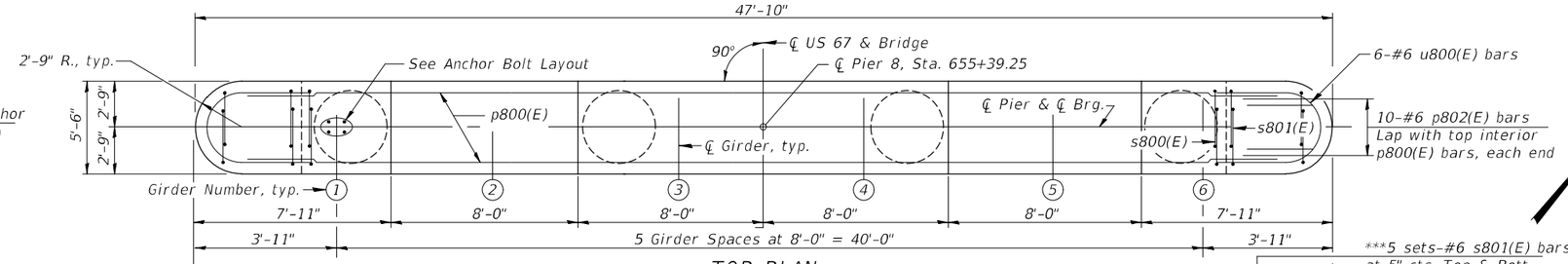


BAR u700(E)

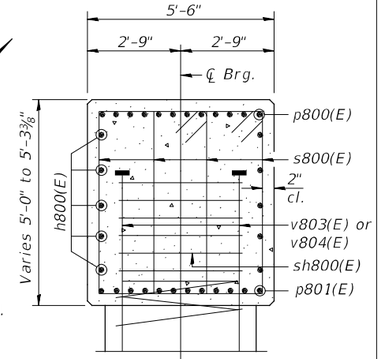
Notes:
1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see sheet 123 of 162.



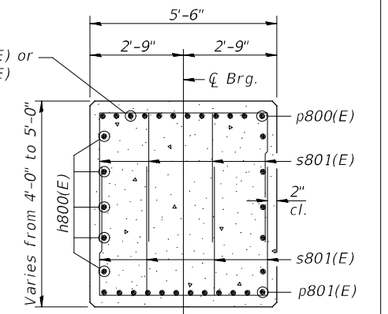
ANCHOR BOLT LAYOUT



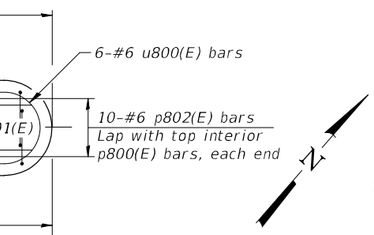
TOP PLAN



SECTION A-A

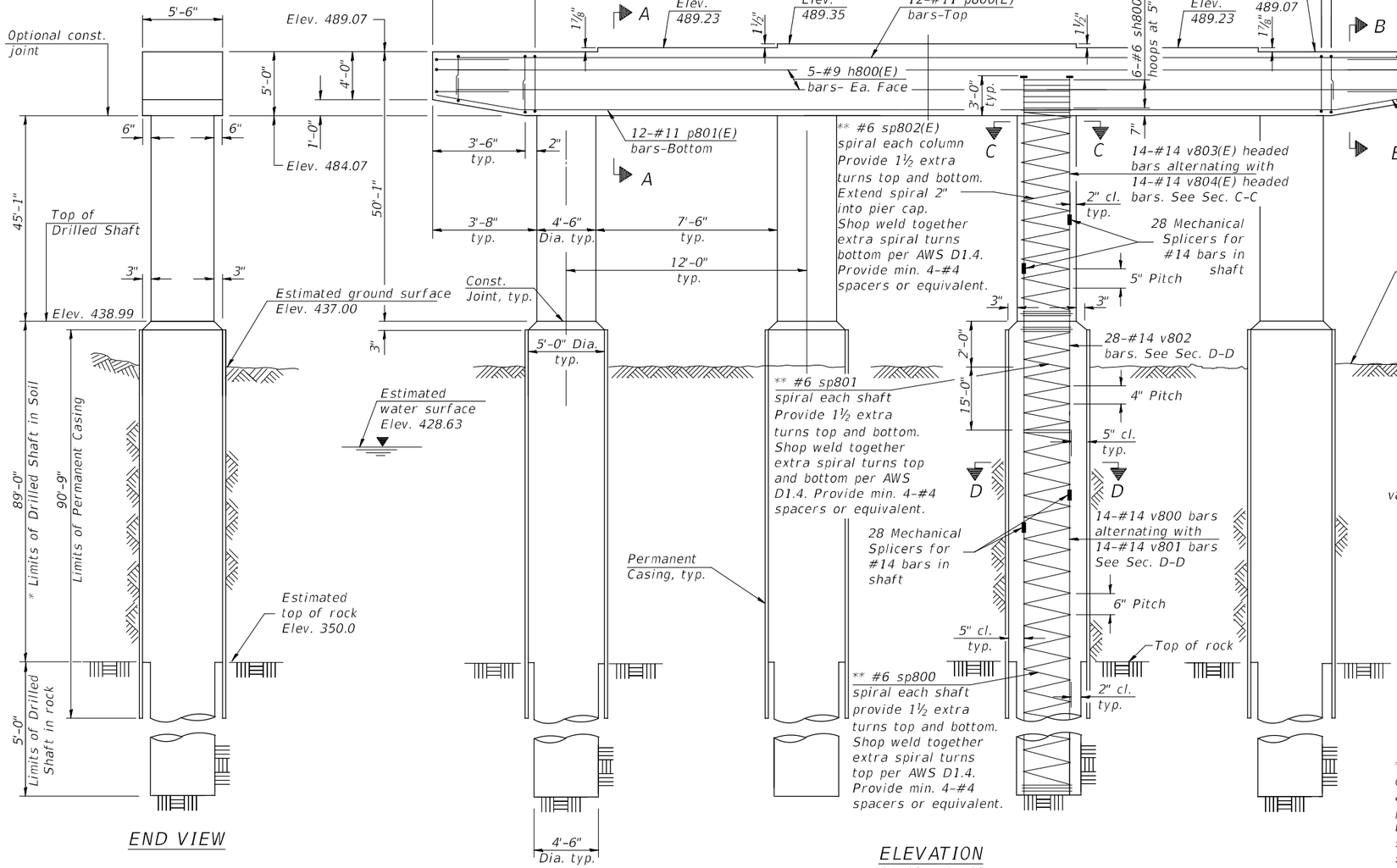


SECTION B-B



SECTION C-C

SECTION D-D



END VIEW

ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

MINIMUM BAR LAP
#6 Bar = 4'-4"

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 107 of 162.

FILE NAME = 0090504-72K47-105-Pier 8-Plan & Elev.dgn

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Hutchison Engineering, Inc.
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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 8 - PLAN AND ELEVATION
SN 009-0504

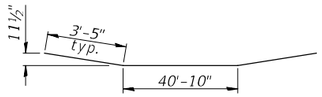
SCALE: | SHEET 106 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	302
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

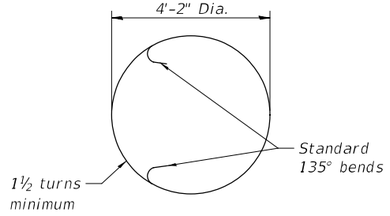
BILL OF MATERIAL - PIER 8

	Bar	No.	Size	Length	Shape
	h800(E)	10	#9	42'-4"	
	p800(E)	12	#11	42'-4"	
	p801(E)	12	#11	47'-8"	
	p802(E)	20	#6	6'-11"	
	s800(E)	180	#6	17'-6"	
	s801(E)	40	#6	11'-1"	
	sh800(E)	24	#6	21'-0"	
*	sp800	4	#6	77'-0"	
*	sp801	4	#6	17'-0"	
*	sp802(E)	4	#6	45'-3"	
	u800(E)	12	#6	16'-6"	
	v800	56	#14	47'-0"	
	v801	56	#14	49'-0"	
	v802	112	#14	50'-0"	
	v803(E)	56	#14	45'-1"	
	v804(E)	56	#14	43'-1"	
	Concrete Structures		CU YD	154.7	
	Reinforcement Bars, Epoxy Coated		POUND	60,260	
	Reinforcement Bars		POUND	100,320	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	363	
	Drilled Shaft in Soil		CU YD	258.9	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,504	
	Crosshole Sonic Logging Testing		EACH	4	

* Length is height of spiral

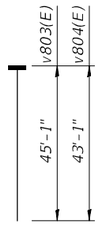


BAR p801(E)

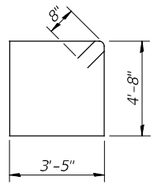


BAR sh800(E)
(Seismic Hoop)

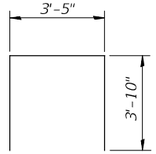
Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.



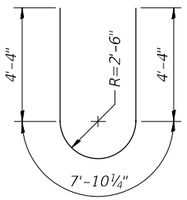
BARS v803(E) & v804(E)
(Headed)



BAR s800(E)



BAR s801(E)



BAR u800(E)

Notes:
1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see Sheet 123 of 162.

FILE NAME = 0090504-72K47-107-Pier 8-Details.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

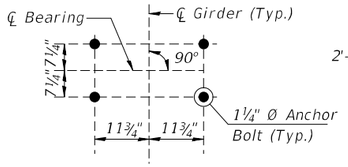
USER NAME = JWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

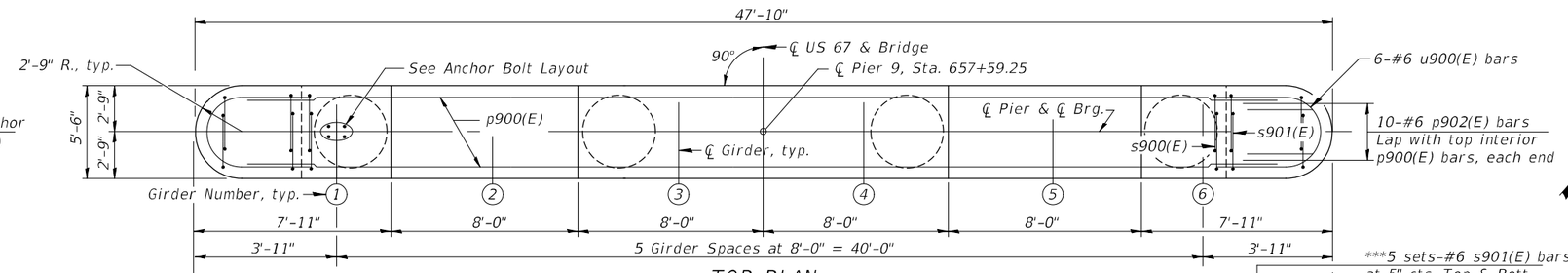
PIER 8 - DETAILS
SN 009-0504

SCALE: | SHEET 107 OF 162 SHEETS | STA. | TO STA.

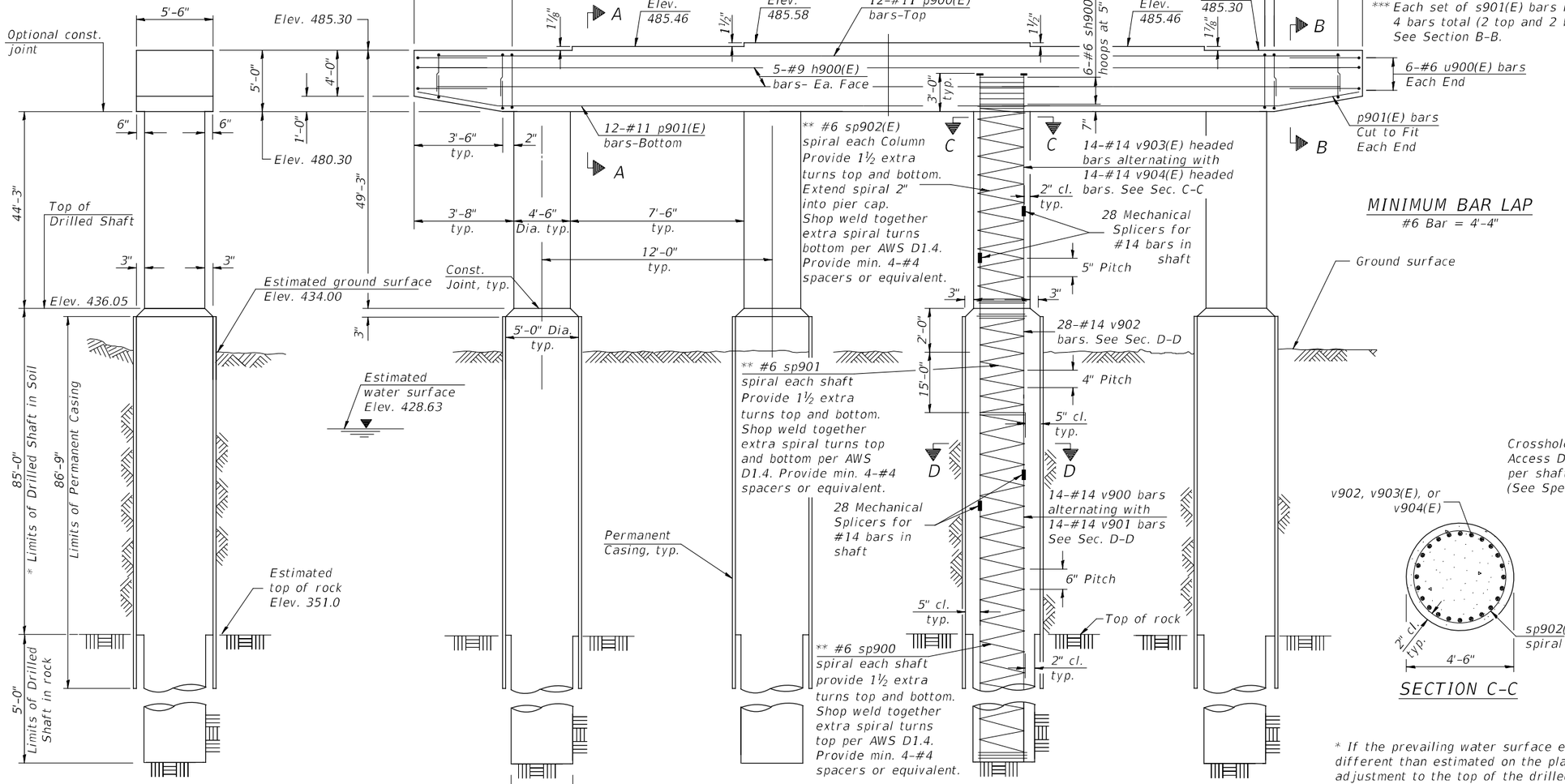
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	303
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



ANCHOR BOLT LAYOUT



TOP PLAN

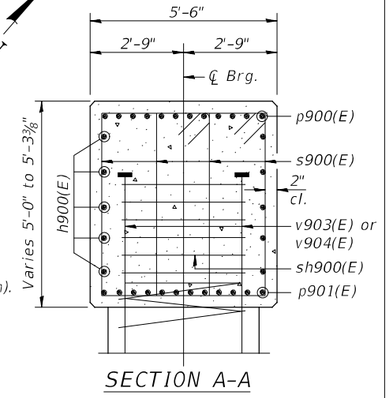


END VIEW

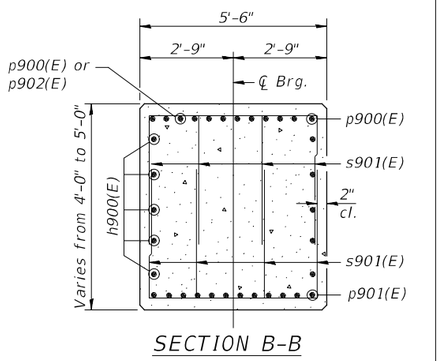
ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

MINIMUM BAR LAP
#6 Bar = 4'-4"

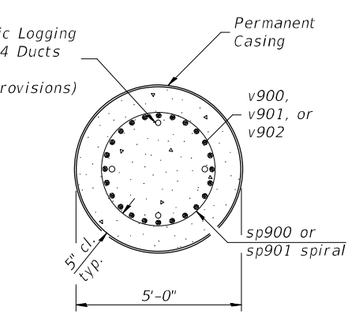


SECTION A-A



SECTION B-B

SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 109 of 162.

FILE NAME = 0090504-72K47-108-Pier 9-Plan & Elev.dgn

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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 9 - PLAN AND ELEVATION
SN 009-0504

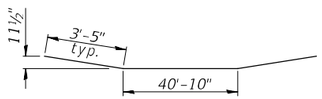
SCALE: | SHEET 108 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	304
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

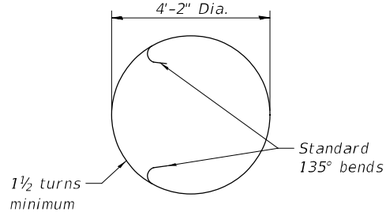
BILL OF MATERIAL - PIER 9

	Bar	No.	Size	Length	Shape
	h900(E)	10	#9	42'-4"	
	p900(E)	12	#11	42'-4"	
	p901(E)	12	#11	47'-8"	
	p902(E)	20	#6	6'-11"	
	s900(E)	180	#6	17'-6"	
	s901(E)	40	#6	11'-1"	
	sh900(E)	24	#6	21'-0"	
*	sp900	4	#6	73'-0"	
*	sp901	4	#6	17'-0"	
*	sp902(E)	4	#6	44'-5"	
	u900(E)	12	#6	16'-6"	
	v900	56	#14	43'-0"	
	v901	56	#14	45'-0"	
	v902	112	#14	50'-0"	
	v903(E)	56	#14	44'-3"	
	v904(E)	56	#14	42'-3"	
	Concrete Structures		CU YD	152.8	
	Reinforcement Bars, Epoxy Coated		POUND	59,390	
	Reinforcement Bars		POUND	96,280	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	347	
	Drilled Shaft in Soil		CU YD	247.2	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,440	
	Crosshole Sonic Logging Testing		EACH	4	

* Length is height of spiral

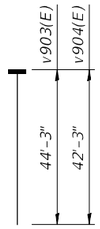


BAR p901(E)

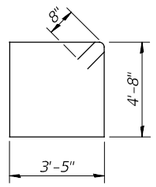


BAR sh900(E)
(Seismic Hoop)

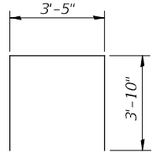
Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.



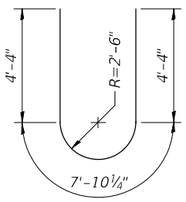
BARS v903(E) & v904(E)
(Headed)



BAR s900(E)



BAR s901(E)



BAR u900(E)

Notes:
1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see Sheet 123 of 162.

FILE NAME = 0090504-72K47-109-Pier 9-Details.dgn

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Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

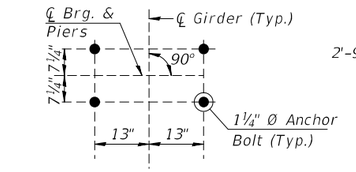
USER NAME = JWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

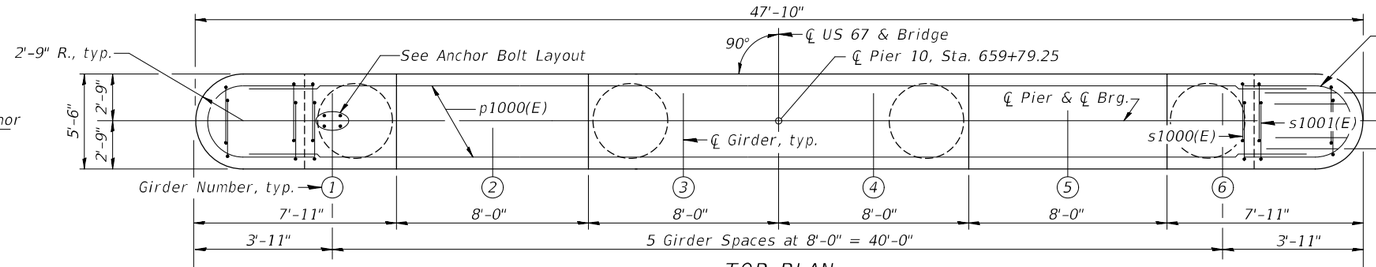
PIER 9 - DETAILS
SN 009-0504

SCALE: | SHEET 109 OF 162 SHEETS | STA. | TO STA.

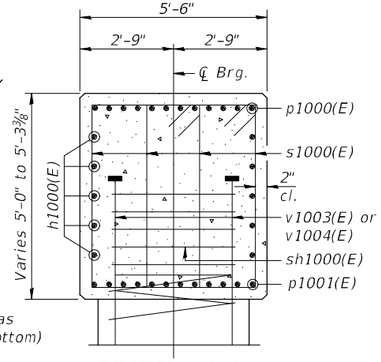
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	305
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



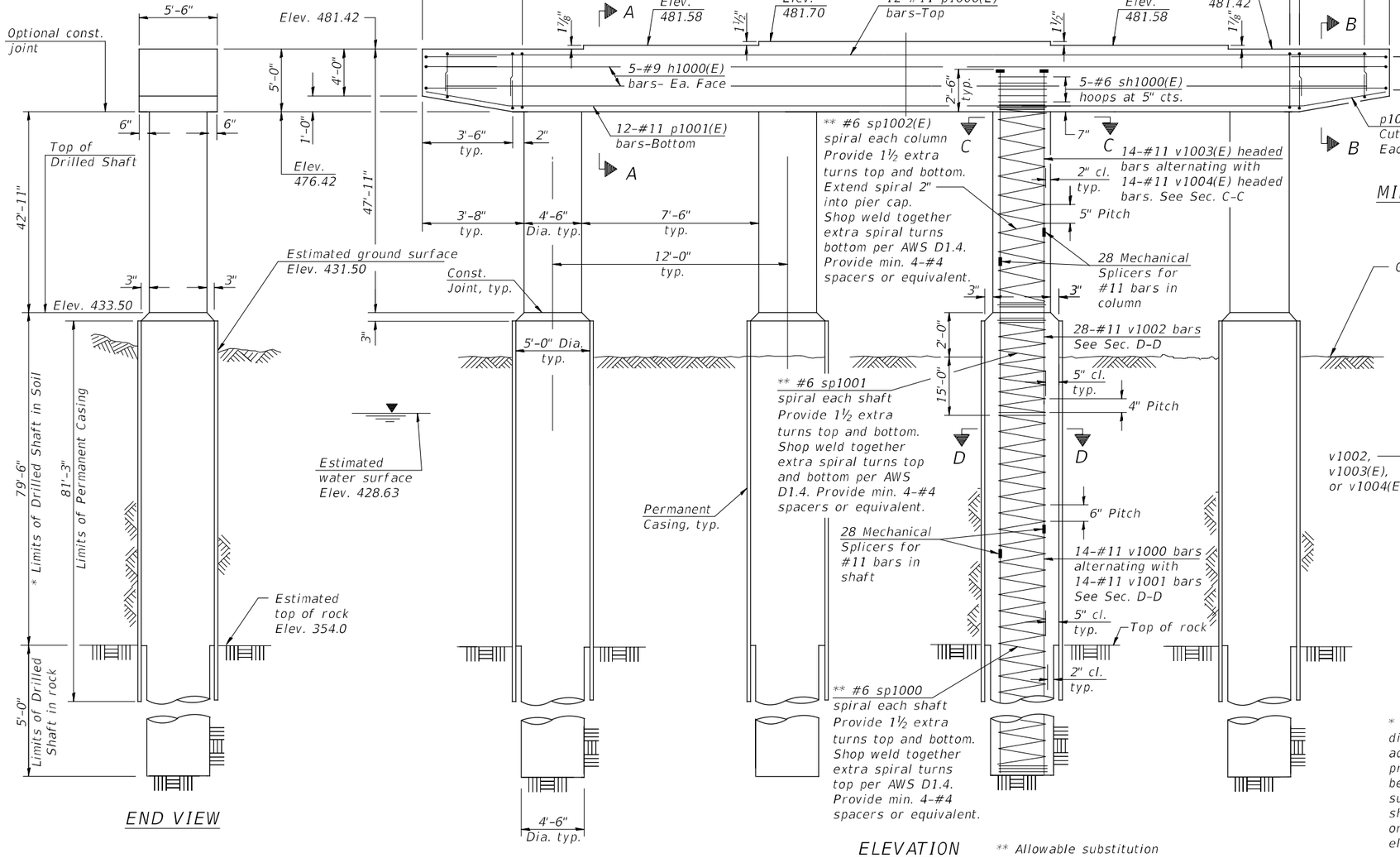
ANCHOR BOLT LAYOUT



TOP PLAN



SECTION A-A

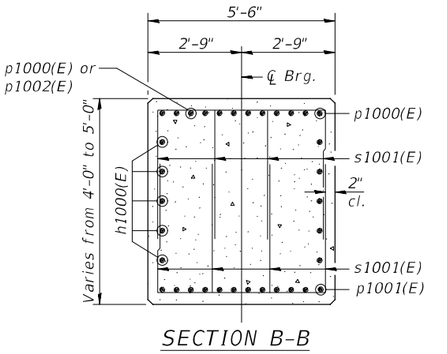


END VIEW

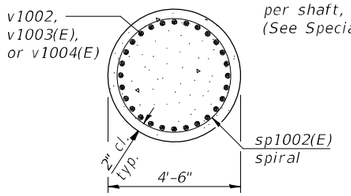
ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

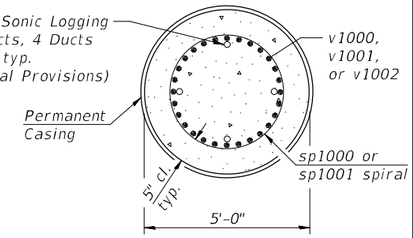
MINIMUM BAR LAP
#6 Bar = 4'-4"



SECTION B-B



SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 111 of 162.

FILE NAME = 0090504-72K47-110-Pier 10-Plan & Elev.dgn

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Hutchison Engineering, Inc.
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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 10 - PLAN AND ELEVATION
SN 009-0504

SCALE: | SHEET 110 OF 162 SHEETS | STA. | TO STA.

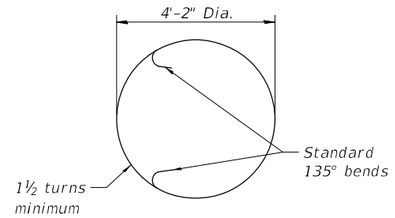
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	306
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIAL - PIER 10

	Bar	No.	Size	Length	Shape
	h1000(E)	10	#9	42'-4"	
	p1000(E)	12	#11	42'-4"	
	p1001(E)	12	#11	47'-8"	
	p1002(E)	20	#6	6'-11"	
	s1000(E)	180	#6	17'-6"	
	s1001(E)	40	#6	11'-1"	
	sh1000(E)	20	#6	21'-0"	
*	sp1000	4	#6	67'-6"	
*	sp1001	4	#6	17'-0"	
*	sp1002(E)	4	#6	43'-1"	
	u1000(E)	12	#6	16'-6"	
	v1000	56	#11	43'-6"	
	v1001	56	#11	45'-6"	
	v1002	112	#11	44'-0"	
	v1003(E)	56	#11	42'-5"	
	v1004(E)	56	#11	40'-5"	
	Concrete Structures			CU YD	149.5
	Reinforcement Bars, Epoxy Coated			POUND	46,600
	Reinforcement Bars			POUND	67,540
	Mechanical Splicers			EACH	224
	Permanent Casing			FOOT	325
	Drilled Shaft in Soil			CU YD	231.2
	Drilled Shaft in Rock			CU YD	11.8
	Crosshole Sonic Logging Access Ducts			FOOT	1,352
	Crosshole Sonic Logging Testing			EACH	4

* Length is height of spiral.

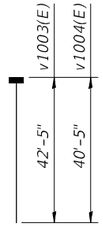
BAR p1001(E)



BAR sh1000(E)

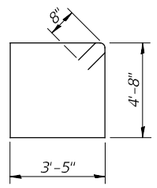
(Seismic Hoop)

Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.

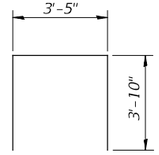


BARS v1003(E) & v1004(E)

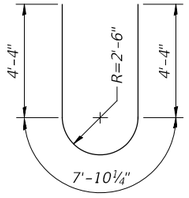
(Headed)



BAR s1000(E)



BAR s1001(E)



BAR u1000(E)

Notes:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see sheet 123 of 162.

FILE NAME = 0090504-72K47-111-Pier 10-Details.dgn

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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

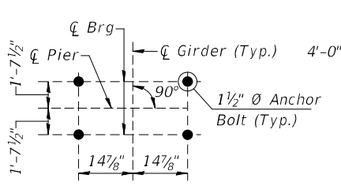
USER NAME = JWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

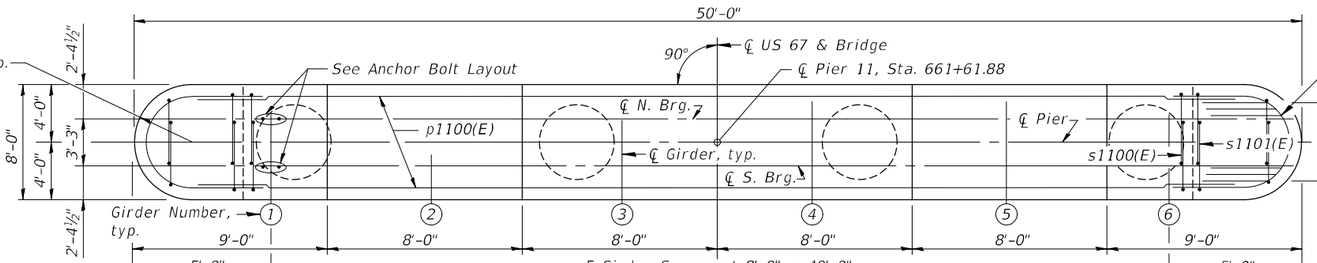
PIER 10 - DETAILS
SN 009-0504

SCALE: | SHEET 111 OF 162 SHEETS | STA. | TO STA.

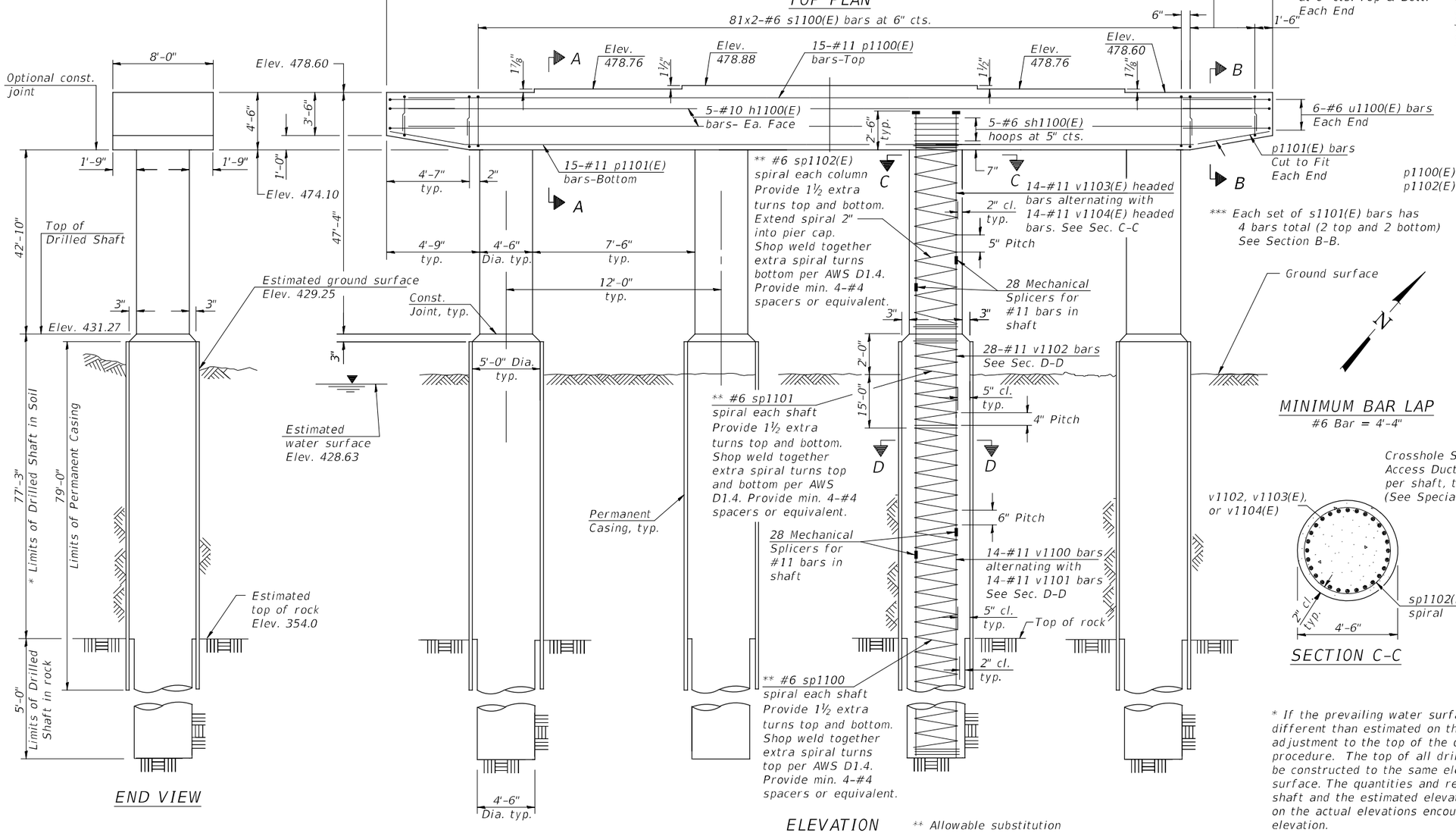
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	307
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



ANCHOR BOLT LAYOUT

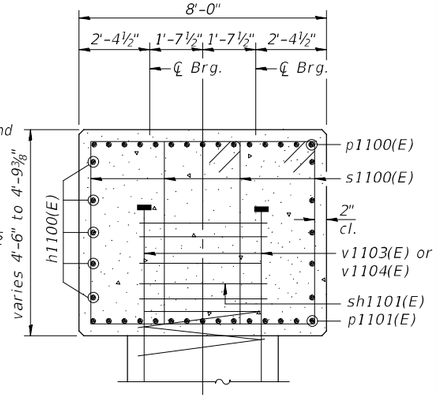


TOP PLAN

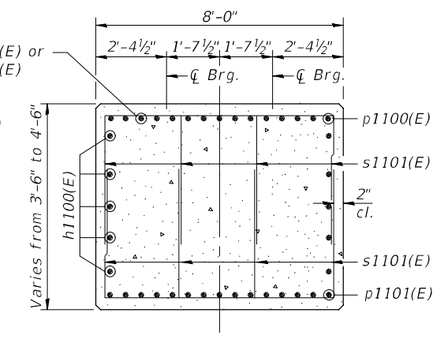


ELEVATION
(Looking North)

END VIEW



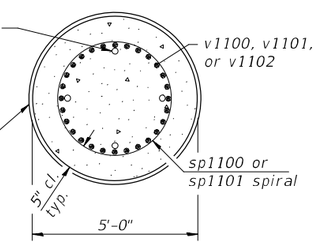
SECTION A-A



SECTION B-B

MINIMUM BAR LAP
#6 Bar = 4'-4"

SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

Note:
1. For additional notes, additional details, and Bill of Material, see Sheet 113 of 162.

FILE NAME = 0090504-72K47-112-Pier 11-Plan & Elev.dgn

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Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - JPS	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 11 - PLAN AND ELEVATION
SN 009-0504

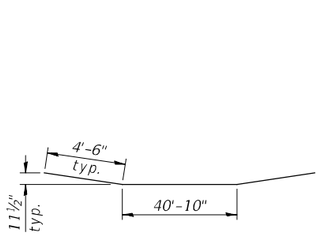
SCALE: | SHEET 112 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

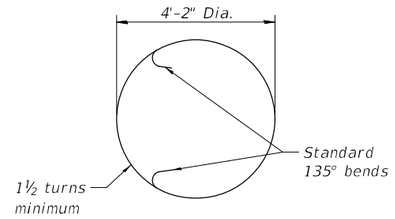
BILL OF MATERIAL - PIER 11

	Bar	No.	Size	Length	Shape
	h1100(E)	10	#10	42'-0"	
	p1100(E)	15	#11	42'-0"	
	p1101(E)	15	#11	49'-10"	
	p1102(E)	26	#6	8'-2"	
	s1100(E)	162	#6	19'-8"	
	s1101(E)	56	#6	11'-8"	
	sh1100(E)	20	#6	21'-0"	
*	sp1100	4	#6	65'-3"	
*	sp1101	4	#6	17'-0"	
*	sp1102(E)	4	#6	43'-0"	
	u1100(E)	12	#6	20'-5"	
	v1100	56	#11	43'-3"	
	v1101	56	#11	45'-3"	
	v1102	112	#11	42'-0"	
	v1103(E)	56	#11	42'-4"	
	v1104(E)	56	#11	40'-4"	
	Concrete Structures		CU YD	166.4	
	Reinforcement Bars, Epoxy Coated		POUND	49,090	
	Reinforcement Bars		POUND	65,860	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	316	
	Drilled Shaft in Soil		CU YD	224.6	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,316	
	Crosshole Sonic Logging Testing		EACH	4	
	Concrete Sealer		SQ FT	882	

* Length is height of spiral.



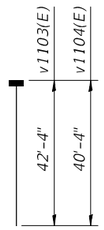
BAR p1101(E)



BAR sh1100(E)

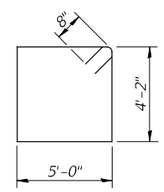
(Seismic Hoop)

Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.

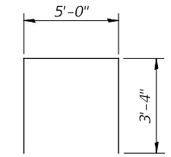


BARS v1103(E) & v1104(E)

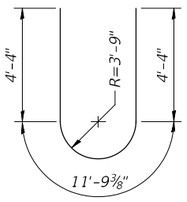
(Headed)



BAR s1100(E)



BAR s1101(E)



BAR u1100(E)

Notes:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see sheet 123 of 162.
7. Concrete Sealer shall be applied to the bearing seats and each face of the pier cap.

FILE NAME = 0090504-72K47-113-Pier 11-Details.dgn

Since 1965
Hutchison Engineering, Inc.
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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

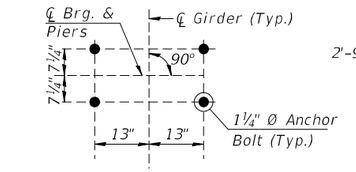
USER NAME = JVWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

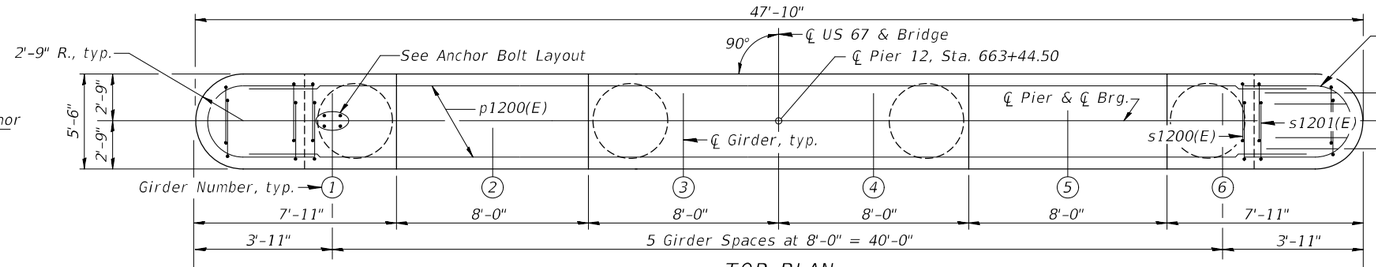
PIER 11 - DETAILS
SN 009-0504

SCALE: | SHEET 113 OF 162 SHEETS | STA. | TO STA.

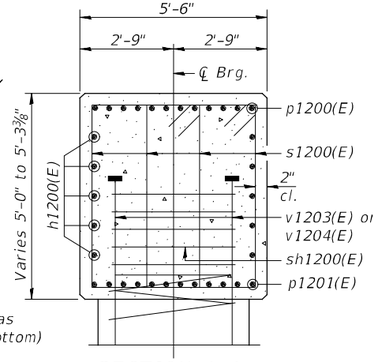
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	309
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



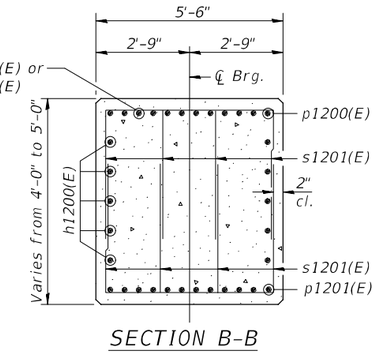
ANCHOR BOLT LAYOUT



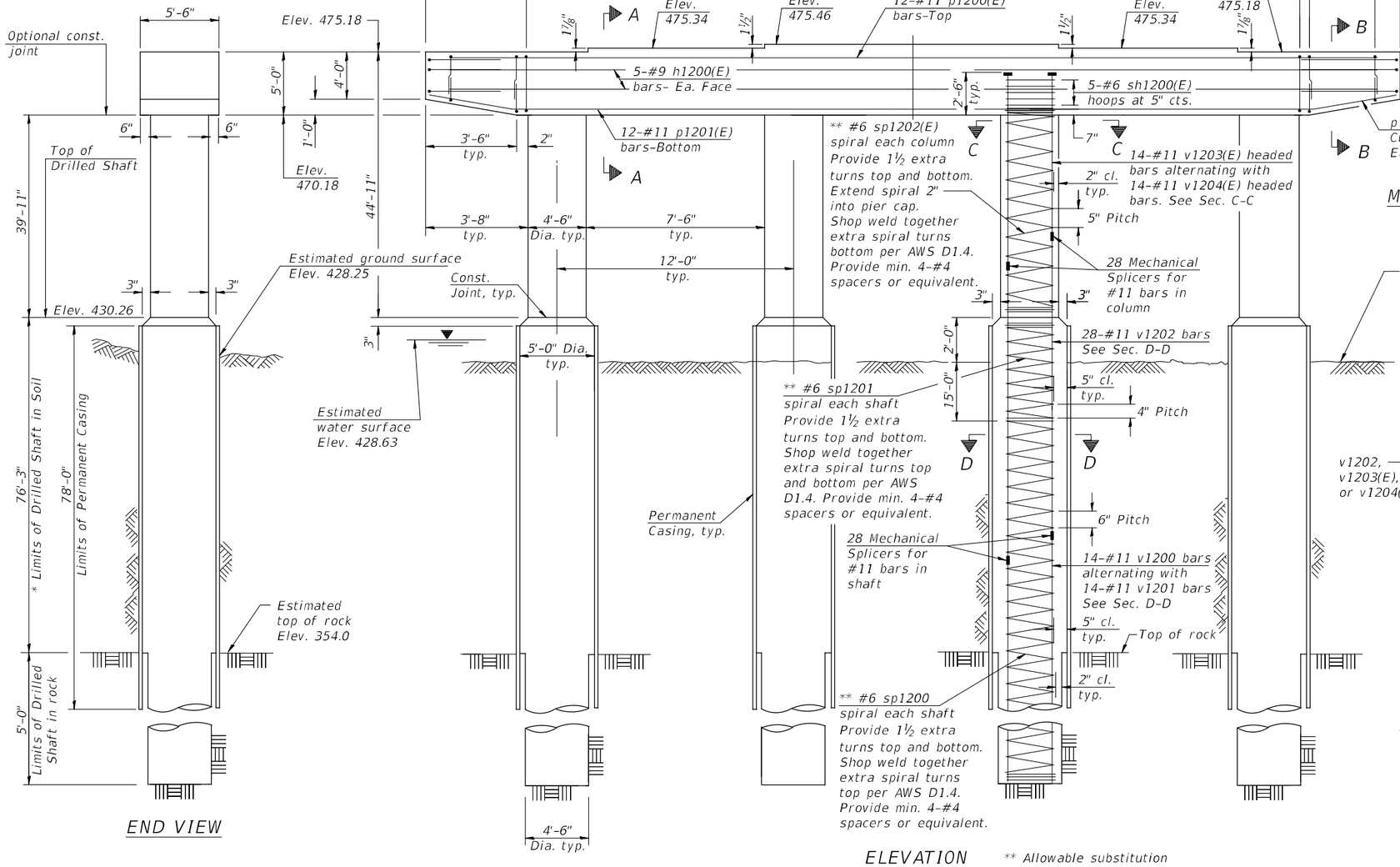
TOP PLAN



SECTION A-A



SECTION B-B

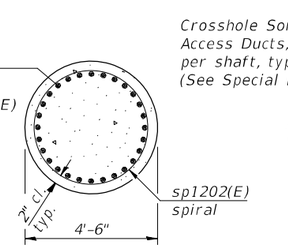


END VIEW

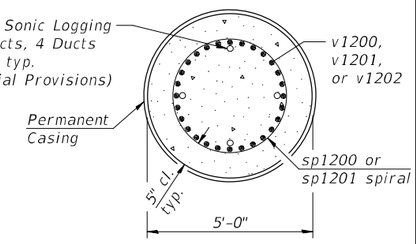
ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

MINIMUM BAR LAP
#6 Bar = 4'-4"



SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 115 of 162.

FILE NAME = 0090504-72K47-114-Pier 12-Plan & Elev.dgn

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Hutchison Engineering, Inc.
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CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 12 - PLAN AND ELEVATION
SN 009-0504

SCALE: | SHEET 114 OF 162 SHEETS | STA. | TO STA.

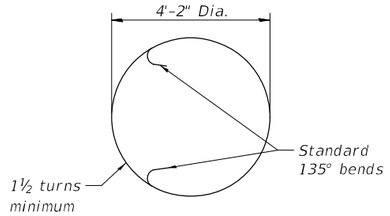
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	310
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

BILL OF MATERIAL - PIER 12

	Bar	No.	Size	Length	Shape
	h1200(E)	10	#9	42'-4"	
	p1200(E)	12	#11	42'-4"	
	p1201(E)	12	#11	47'-8"	
	p1202(E)	20	#6	6'-11"	
	s1200(E)	180	#6	17'-6"	
	s1201(E)	40	#6	11'-1"	
	sh1200(E)	20	#6	21'-0"	
*	sp1200	4	#6	64'-3"	
*	sp1201	4	#6	17'-0"	
*	sp1202(E)	4	#6	40'-1"	
	u1200(E)	12	#6	16'-6"	
	v1200	56	#11	41'-9"	
	v1201	56	#11	43'-9"	
	v1202	112	#11	42'-6"	
	v1203(E)	56	#11	39'-5"	
	v1204(E)	56	#11	37'-5"	
	Concrete Structures			CU YD	142.5
	Reinforcement Bars, Epoxy Coated			POUND	44,260
	Reinforcement Bars			POUND	65,110
	Mechanical Splicers			EACH	224
	Permanent Casing			FOOT	312
	Drilled Shaft in Soil			CU YD	221.7
	Drilled Shaft in Rock			CU YD	11.8
	Crosshole Sonic Logging Access Ducts			FOOT	1,300
	Crosshole Sonic Logging Testing			EACH	4

* Length is height of spiral.

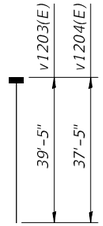
BAR p1201(E)



BAR sh1200(E)

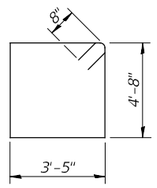
(Seismic Hoop)

Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.

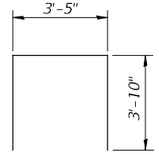


BARS v1203(E) & v1204(E)

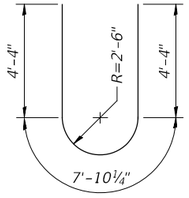
(Headed)



BAR s1200(E)



BAR s1201(E)



BAR u1200(E)

Notes:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see sheet 123 of 162.

FILE NAME = 0090504-72K47-115-Pier 12-Details.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

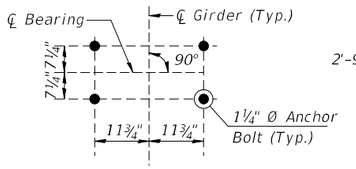
USER NAME = JVWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

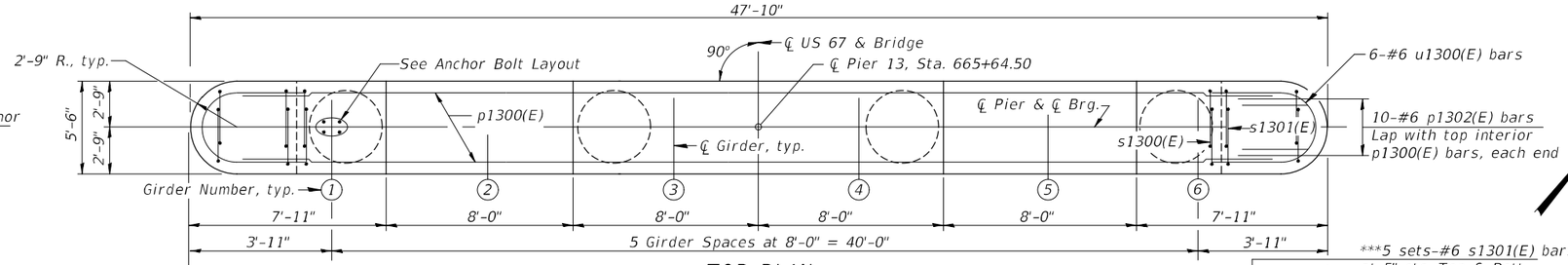
PIER 12 - DETAILS
SN 009-0504

SCALE: | SHEET 115 OF 162 SHEETS | STA. | TO STA.

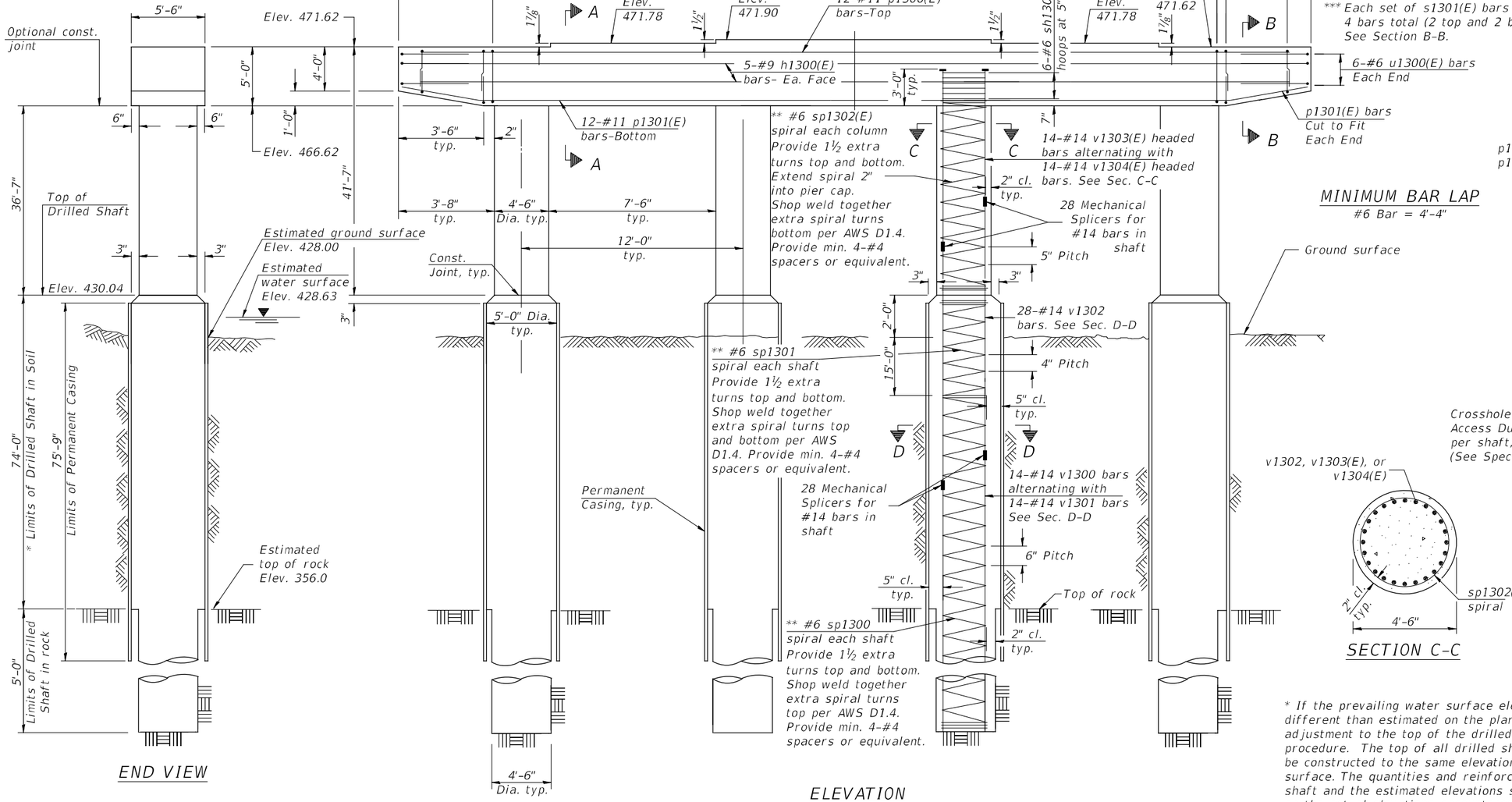
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	311
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



ANCHOR BOLT LAYOUT



TOP PLAN

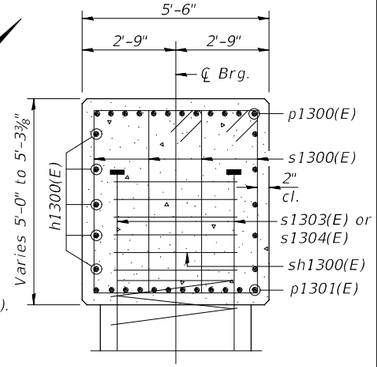


END VIEW

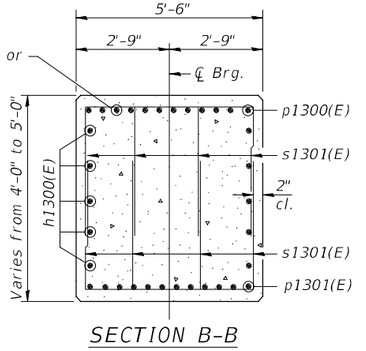
ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

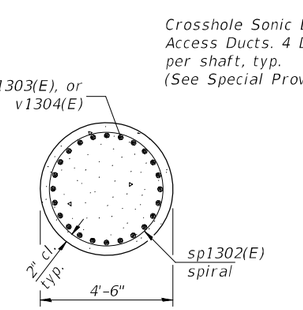
MINIMUM BAR LAP
#6 Bar = 4'-4"



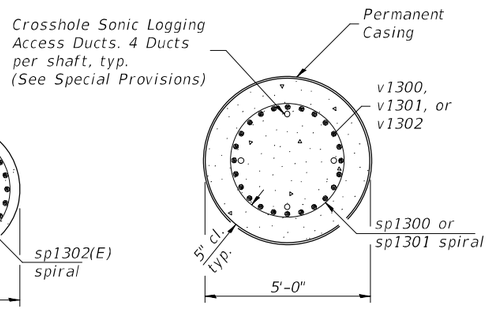
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 117 of 162.

FILE NAME = 0090504-72K47-116-Pier 13-Plan & Elev.dgn

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Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 13 - PLAN AND ELEVATION
SN 009-0504

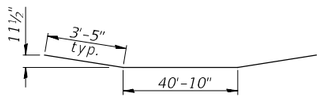
SCALE: | SHEET 116 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	312
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

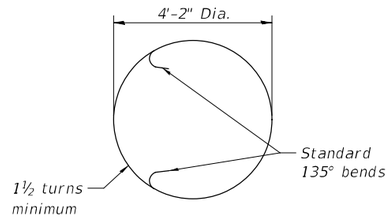
BILL OF MATERIAL - PIER 13

	Bar	No.	Size	Length	Shape
	h1300(E)	10	#9	42'-4"	
	p1300(E)	12	#11	42'-4"	
	p1301(E)	12	#11	47'-8"	
	p1302(E)	20	#6	6'-11"	
	s1300(E)	180	#6	17'-6"	
	s1301(E)	40	#6	11'-1"	
	sh1300(E)	24	#6	21'-0"	
*	sp1300	4	#6	62'-0"	
*	sp1301	4	#6	17'-0"	
*	sp1302(E)	4	#6	36'-9"	
	u1300(E)	12	#6	16'-6"	
	v1300	56	#14	40'-0"	
	v1301	56	#14	42'-0"	
	v1302	112	#14	42'-0"	
	v1303(E)	56	#14	36'-7"	
	v1304(E)	56	#14	34'-7"	
	Concrete Structures		CU YD	134.9	
	Reinforcement Bars, Epoxy Coated		POUND	51,400	
	Reinforcement Bars		POUND	85,150	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	303	
	Drilled Shaft in Soil		CU YD	215.2	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,264	
	Crosshole Sonic Logging Testing		EACH	4	

* Length is height of spiral



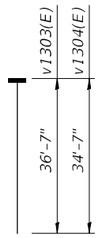
BAR p1301(E)



BAR sh1300(E)

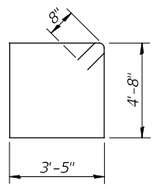
(Seismic Hoop)

Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.

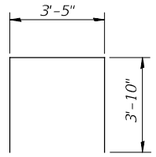


BARS v1303(E) & v1304(E)

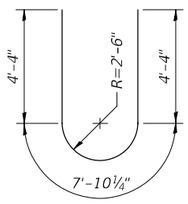
(Headed)



BAR s1300(E)



BAR s1301(E)



BAR u1300(E)

Notes:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see Sheet 123 of 162.

FILE NAME = 0090504-72K47-117-Pier 13-Details.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

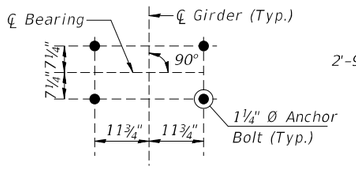
USER NAME = JWhite	DESIGNED - JPS	REVISED -	
	DRAWN - JPS	REVISED -	
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -	
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

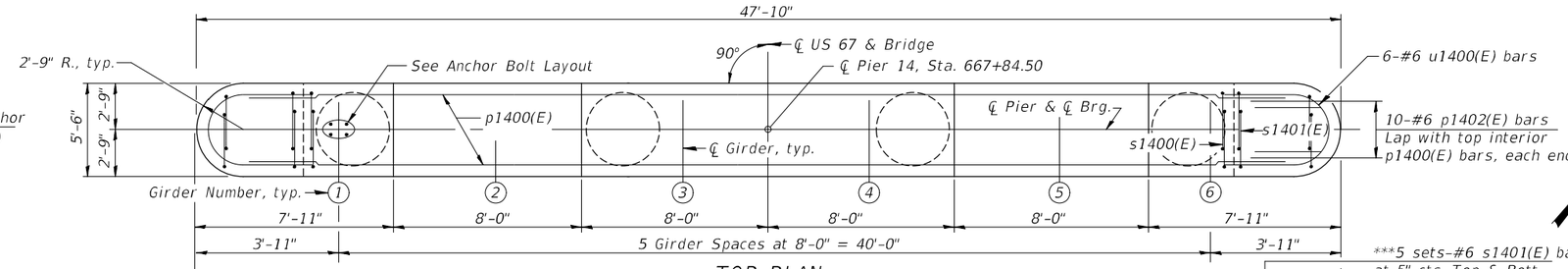
PIER 13 - DETAILS
SN 009-0504

SCALE: | SHEET 117 OF 162 SHEETS | STA. | TO STA.

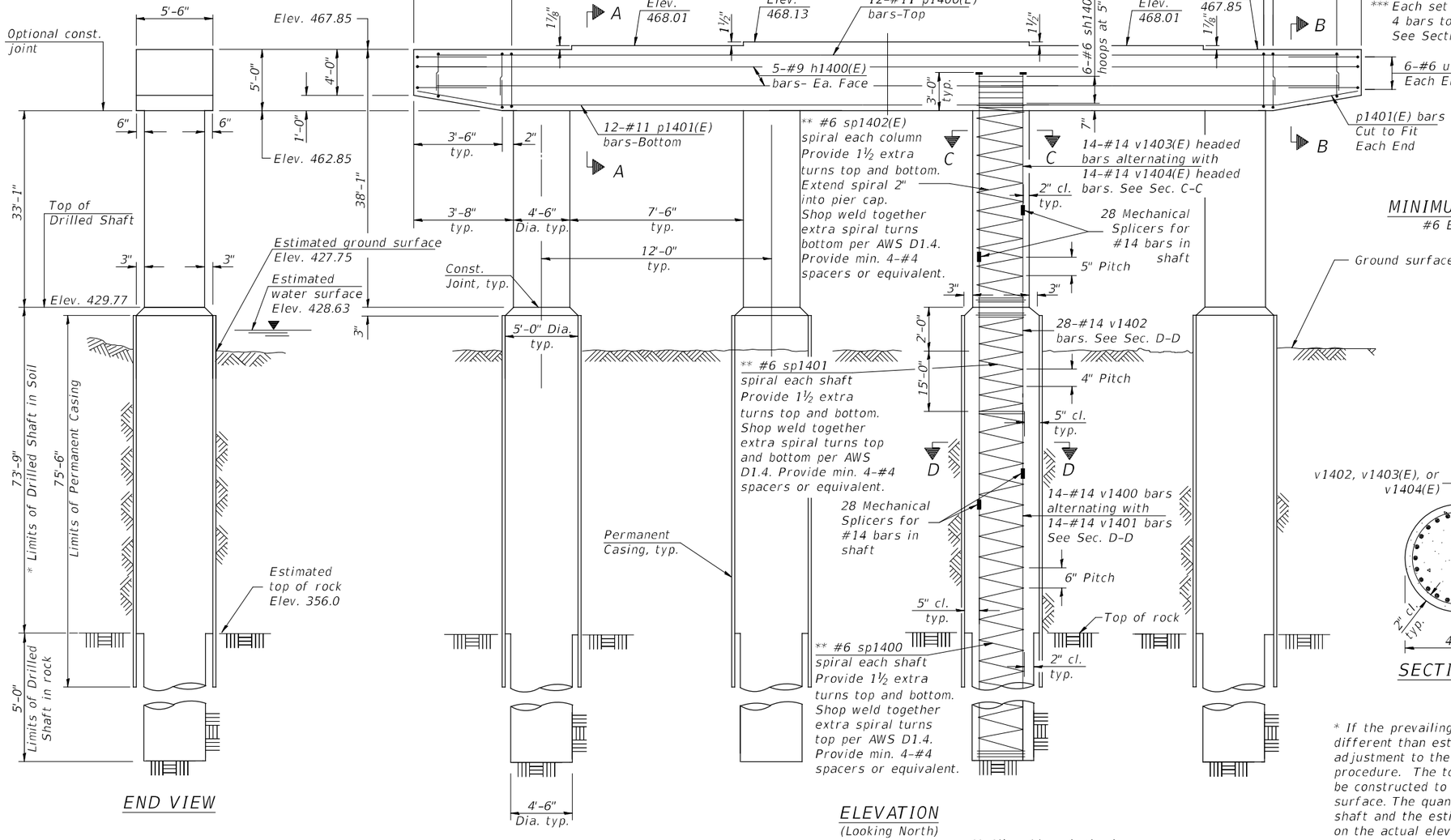
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	313
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

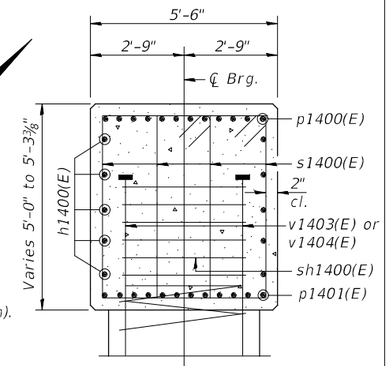


ANCHOR BOLT LAYOUT

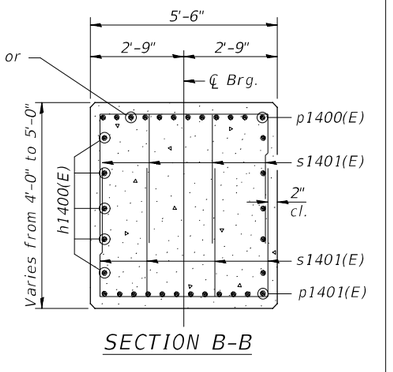


TOP PLAN





SECTION A-A

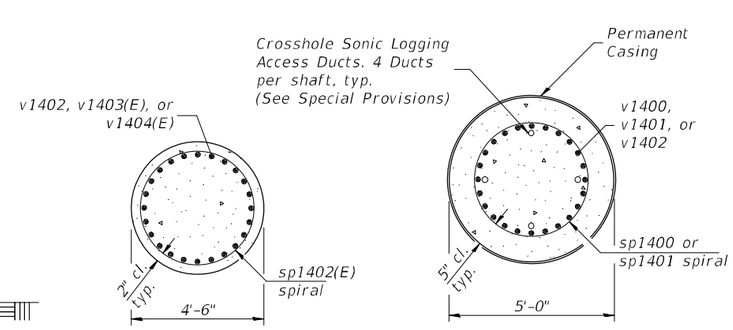


SECTION B-B

END VIEW

ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral



SECTION C-C

SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 119 of 162.

FILE NAME = 0090504-72K47-118-Pier 14-Plan & Elev.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 14 - PLAN AND ELEVATION
SN 009-0504

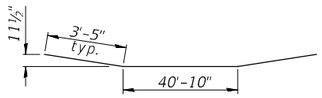
SCALE: | SHEET 118 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	314
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

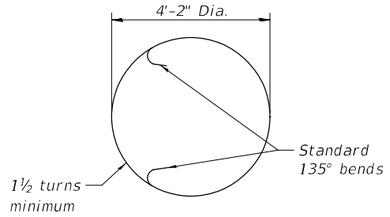
BILL OF MATERIAL - PIER 14

	Bar	No.	Size	Length	Shape
	h1400(E)	10	#9	42'-4"	
	p1400(E)	12	#11	42'-4"	
	p1401(E)	12	#11	47'-8"	
	p1402(E)	20	#6	6'-11"	
	s1400(E)	180	#6	17'-6"	
	s1401(E)	40	#6	11'-1"	
	sh1400(E)	24	#6	21'-0"	
*	sp1400	4	#6	61'-9"	
*	sp1401	4	#6	17'-0"	
*	sp1402(E)	4	#6	33'-3"	
	u1400(E)	12	#6	16'-6"	
	v1400	56	#14	40'-9"	
	v1401	56	#14	42'-9"	
	v1402	112	#14	41'-0"	
	v1403(E)	56	#14	33'-1"	
	v1404(E)	56	#14	31'-1"	
	Concrete Structures		CU YD	126.5	
	Reinforcement Bars, Epoxy Coated		POUND	47,740	
	Reinforcement Bars		POUND	84,890	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	302	
	Drilled Shaft in Soil		CU YD	214.5	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,260	
	Crosshole Sonic Logging Testing		EACH	4	

* Length is height of spiral

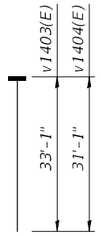


BAR p1401(E)

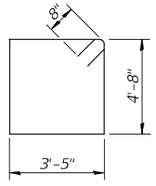


BAR sh1400(E)
(Seismic Hoop)

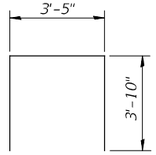
Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.



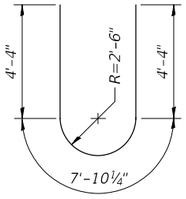
BARS v1403(E) & v1404(E)
(Headed)



BAR s1400(E)

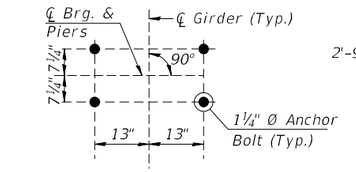


BAR s1401(E)

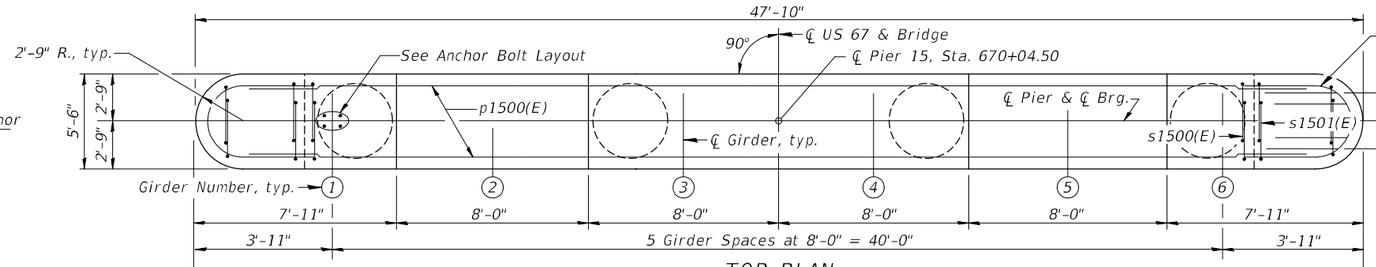


BAR u1400(E)

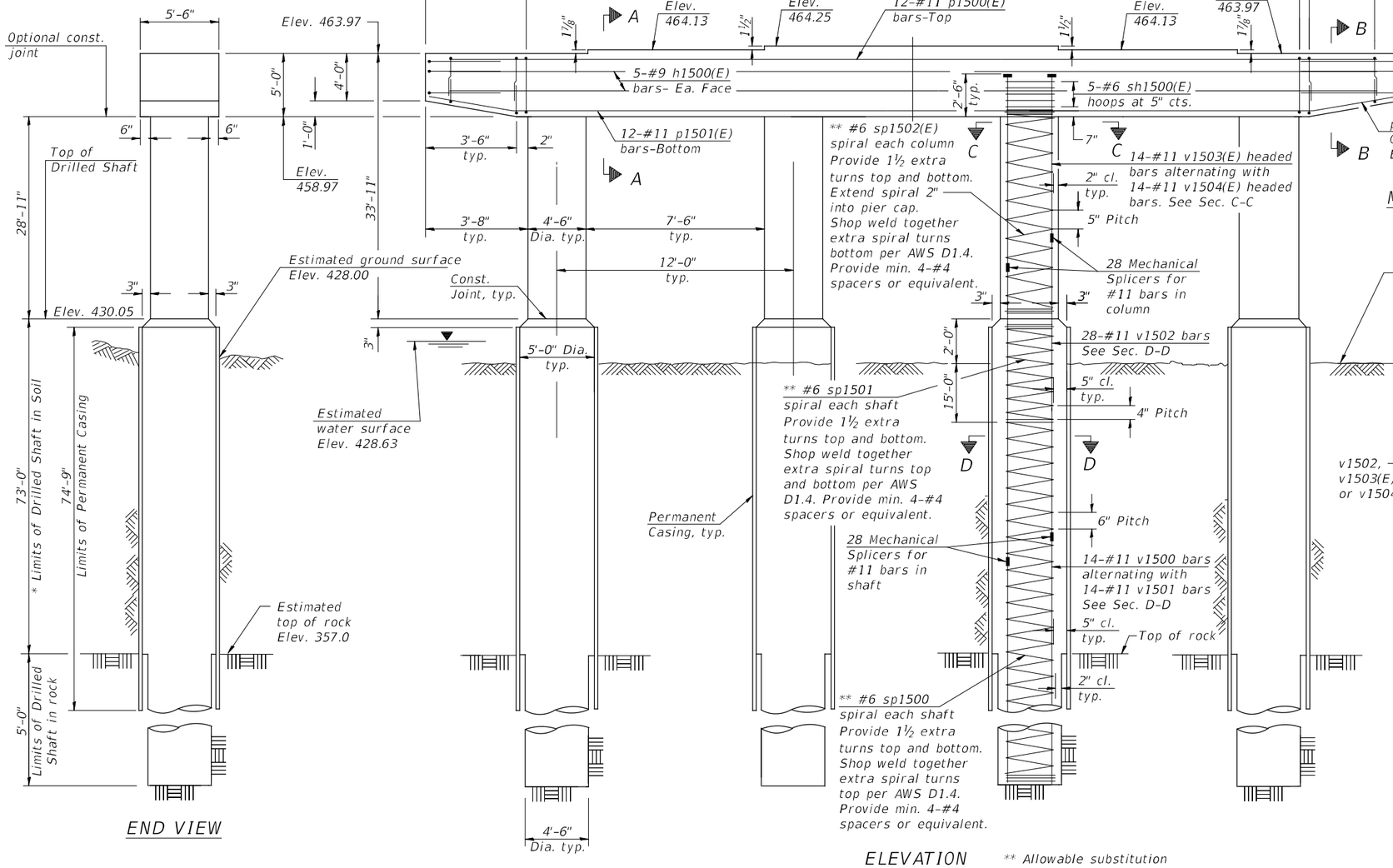
Notes:
1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see Sheet 123 of 162.



ANCHOR BOLT LAYOUT



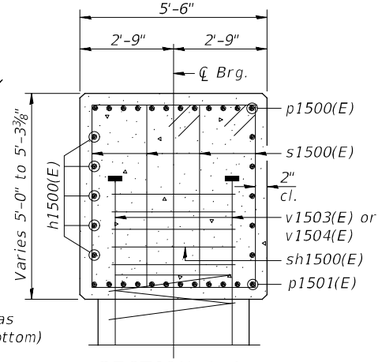
TOP PLAN



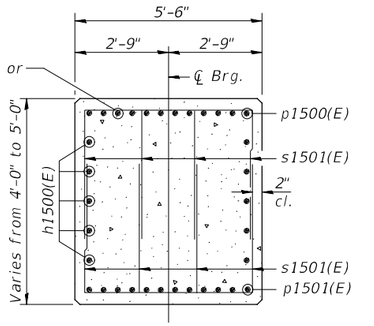
END VIEW

ELEVATION
(Looking North)

** Allowable substitution
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral

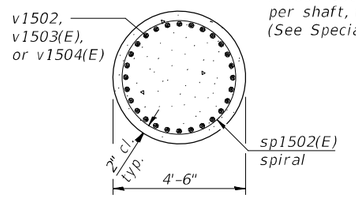


SECTION A-A

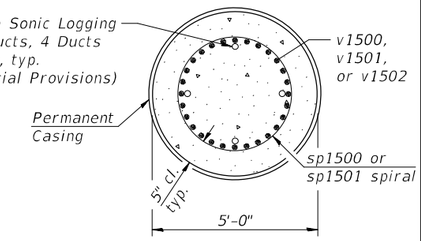


SECTION B-B

MINIMUM BAR LAP
#6 Bar = 4'-4"



SECTION C-C



SECTION D-D

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Notes:
1. For additional notes, additional details, and Bill of Material, see Sheet 121 of 162.

FILE NAME = 0090504-72K47-120-Pier 15-Plan & Elev.dgn

Since 1945
Hutchison Engineering, Inc.
JACKSONVILLE • PEORIA • SHOREWOOD
CARBONDALE • MOLINE
Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

USER NAME = JVWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 15 - PLAN AND ELEVATION
SN 009-0504

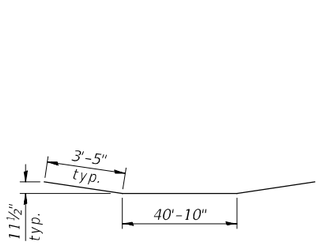
SCALE: | SHEET 120 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	316
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

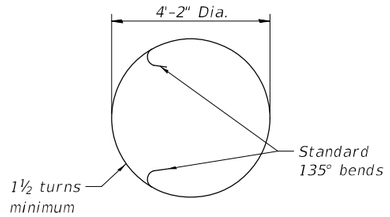
BILL OF MATERIAL - PIER 15

	Bar	No.	Size	Length	Shape
	h1500(E)	10	#9	42'-4"	
	p1500(E)	12	#11	42'-4"	
	p1501(E)	12	#11	47'-8"	
	p1502(E)	20	#6	6'-11"	
	s1500(E)	180	#6	17'-6"	
	s1501(E)	40	#6	11'-1"	
	sh1500(E)	20	#6	21'-0"	
*	sp1500	4	#6	61'-0"	
*	sp1501	4	#6	17'-0"	
*	sp1502(E)	4	#6	29'-1"	
	u1500(E)	12	#6	16'-6"	
	v1500	56	#11	40'-0"	
	v1501	56	#11	42'-0"	
	v1502	112	#11	41'-0"	
	v1503(E)	56	#11	28'-5"	
	v1504(E)	56	#11	26'-5"	
	Concrete Structures		CU YD	116.5	
	Reinforcement Bars, Epoxy Coated		POUND	35,670	
	Reinforcement Bars		POUND	62,670	
	Mechanical Splicers		EACH	224	
	Permanent Casing		FOOT	299	
	Drilled Shaft in Soil		CU YD	212.3	
	Drilled Shaft in Rock		CU YD	11.8	
	Crosshole Sonic Logging Access Ducts		FOOT	1,248	
	Crosshole Sonic Logging Testing		EACH	4	

* Length is height of spiral.



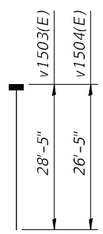
BAR p1501(E)



BAR sh1500(E)

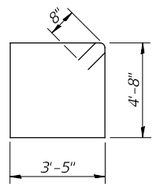
(Seismic Hoop)

Mechanically spliced or shop welded (per AWS D1.4) seismic hoop alternates will be allowed at no additional cost to the Department.

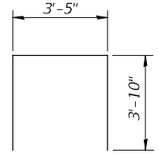


BARS v1503(E) & v1504(E)

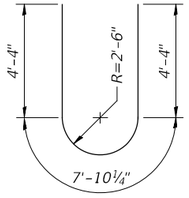
(Headed)



BAR s1500(E)



BAR s1501(E)



BAR u1500(E)

Notes:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. The Permanent Casing is shown embedded 2 ft. into rock for estimate of quantities. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
5. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° hook.
6. For Mechanical Splicer Details, see sheet 123 of 162.

FILE NAME = 0090504-72K47-121-Pier 15-Details.dgn

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Illinois Professional Design Firm No. 184-000825
2023 JOB# 4527

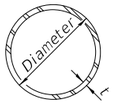
USER NAME = JVWhite	DESIGNED - MMO	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 15 - DETAILS
SN 009-0504

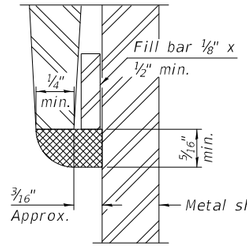
SCALE: | SHEET 121 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	317
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

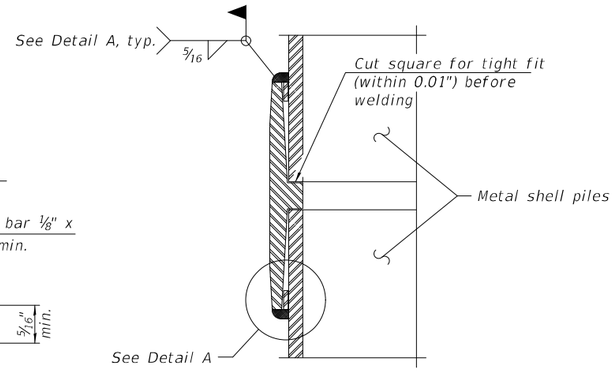


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

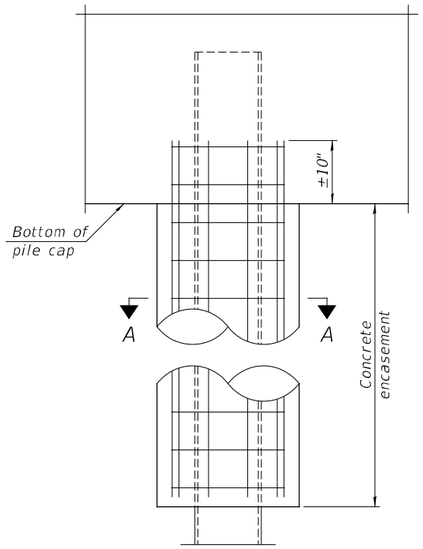


DETAIL A

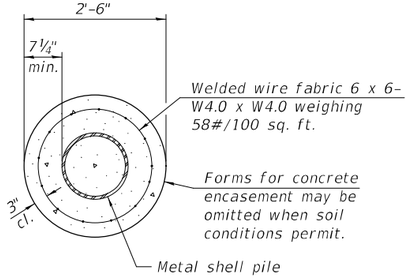


WELDED COMMERCIAL SPLICE

Notes:
1. The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
2. Pile segments shall be driven to solid contact with splicer before welding.



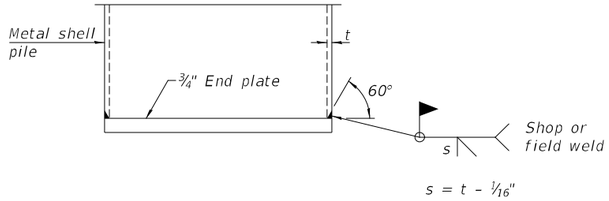
ELEVATION



SECTION A-A

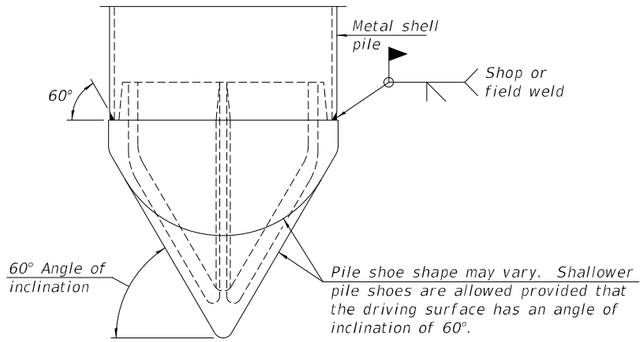
INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)



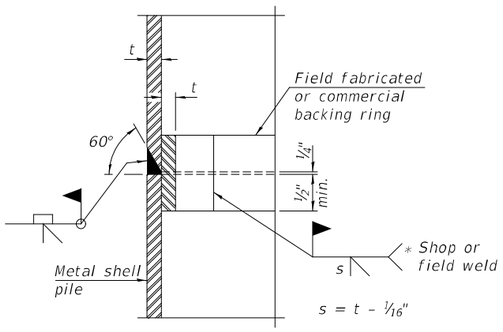
$s = t - \frac{1}{16}"$

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

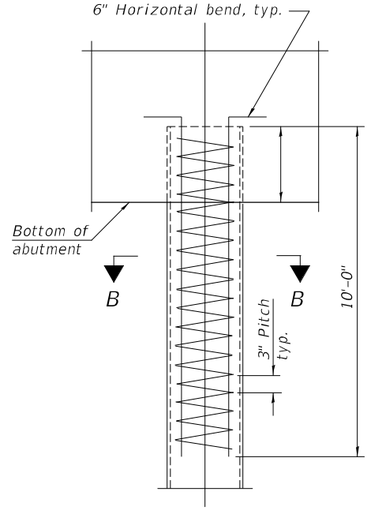
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



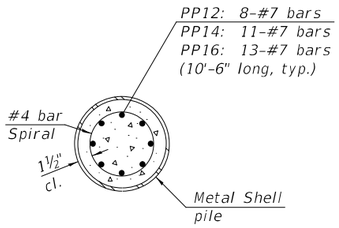
$s = t - \frac{1}{16}"$

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 1-1-2020

FILE NAME = 0090504-72K47-122-Metal Shell Details.dgn

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2023 JOB# 4527

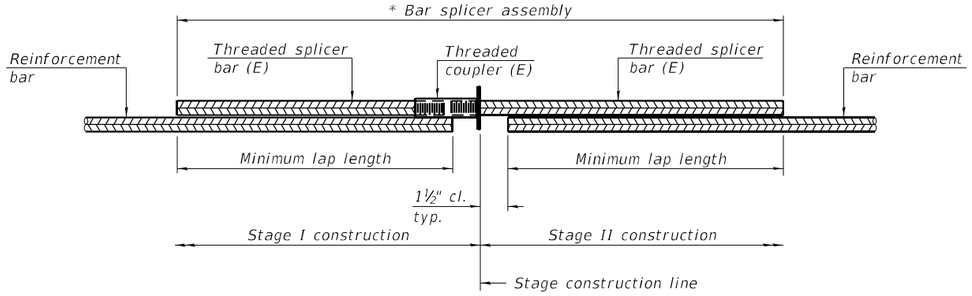
USER NAME = JVWhite	DESIGNED - JPS	REVISED -
	DRAWN - TAC	REVISED -
PLOT SCALE = N/A	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 5/25/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
SN 009-0504

SCALE: | SHEET 122 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	318
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



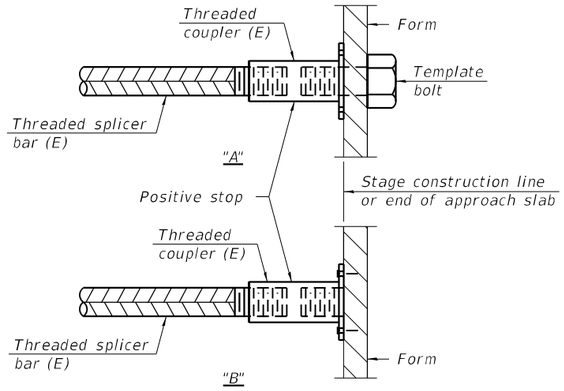
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

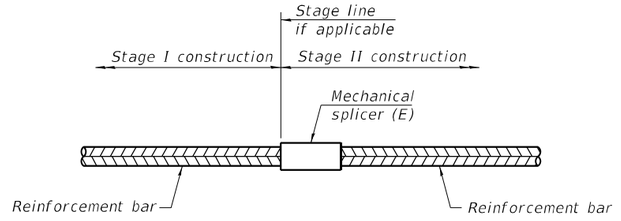
** Epoxy not required on bar splicer assembly components used in conjunction with black bars. Stainless steel bar splicer assembly components will be required when used in conjunction with stainless steel bars.*

Location	Bar size	No. assemblies required	Minimum lap length
Unit 1 Mod. Jt. @ Pier 3	#5	96	2'-0"
Unit 2 Mod. Jt. @ Pier 3	#5	96	2'-0"
Unit 2 Mod. Jt. @ Pier 6	#5	96	2'-0"
Unit 3 Mod. Jt. @ Pier 6	#5	96	2'-0"
Unit 3 Mod. Jt. @ Pier 11	#5	96	2'-0"
Unit 4 Mod. Jt. @ Pier 11	#5	96	2'-0"
Unit 4 Mod. Jt. @ N. Abut.	#5	96	2'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 1	#11	176
Pier 2	#11	176
Pier 3	#18	136
Pier 4	#18	140
Pier 5	#18	140
Pier 6	#18	140
Pier 7	#11	224
Pier 8	#14	224
Pier 9	#14	224
Pier 10	#11	224
Pier 11	#11	224
Pier 12	#11	224
Pier 13	#14	224
Pier 14	#14	224
Pier 15	#11	224

Notes:

1. *Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.*
2. *All reinforcement shall be lapped and tied to the splicer bars.*
3. *Bar splicer assemblies shall be epoxy coated or stainless steel according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications and the Special Provisions.*
4. *See approved list of bar splicer assemblies and mechanical splicers for alternatives.*
5. *Epoxy coating is not required on mechanical splicers when splicing uncoated bars.*

FILE NAME = L:\IDOT\11809601\Draw\Structures\CADD_Sheets\00905004-72K47-123-Bar Splicer Assembly and Mechanical Splicer Details.dgn

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USER NAME = Ben Holland	DESIGNED - DAC	REVISED -
	DRAWN - DAC	REVISED -
PLOT SCALE = N/A	CHECKED - DH/JTH	REVISED -
PLOT DATE = 5/23/2023 (12:19:55 PM)	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 009-0504

SCALE: | SHEET 123 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	319
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aravaca Court, Suite 204
Naperville, Illinois 60565
(630) 355-3818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 8/20/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-SA
Station 2029+68
Offset 15.00ft L
Ground Surface Elev. 436.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.9 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Sandy TOPSOIL-brown 436.40			
Fine SAND-brown-some small gravel- very loose to medium dense	AS		10
	2		
	1		
	1		
-5	1		
	2		
	2		
	2		
	3		
	3		
	2		
	2		
-10	2		
	2		
	5		
	4		
	1		
	2		
-15	3		
	3		
	5		
	7		
	3		
	7		
-20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
415.90			
Fine to Coarse SAND-brown-some small gravel medium dense	6		
	8		
	12		
	3		
-25	4		
	6		
	4		
	6		
	8		
	7		
	7		
-30	12		
404.90			
Coarse SAND with some small Gravel- gray-medium dense	4		
	5		
-35	6		
	6		
	8		
-40	9		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aravaca Court, Suite 204
Naperville, Illinois 60565
(630) 355-3818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 8/20/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-SA
Station 2029+68
Offset 15.00ft L
Ground Surface Elev. 436.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.9 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND with some small Gravel- gray-medium dense *(continued)*			
	5		
-45	7		
	11		
	4		
	7		
-50	7		
	9		
	11		
-55	12		
379.90			
Fine SAND-gray-some small gravel-medium dense	6		
	7		
-60	9		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-gray-some small gravel-medium dense *(continued)*			
	7		
-65	9		
	18		
	14		
-70	14		
364.90			
Medium SANDY GRAVEL-gray-dense to very dense	41		
	12		
-75	12		
	50/2"		
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-2\4\CADD\Structures\CADD Sheets\0090504-72K47-009-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-009-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:42:35 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - I
SN 009-0504

SCALE: SHEET 124 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	320
		CONTRACT NO. 72K47		
		ILLINOIS FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Jurhenal Court, Suite 204
Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 8/20/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-SA
Station 2029+68
Offset 15.00ft L
Ground Surface Elev. 436.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.9 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium SANDY GRAVEL-gray-dense to very dense *(continued)*		44 50/4"		
	-85			
Drilling Stopped 8/20/09 Drilling Resumed 8/24/09				
349.40 Weathered Bedrock		100/0"		
347.90 Borehole continued with rock coring.	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Jurhenal Court, Suite 204
Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 8/20/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-SA
Station 2029+68
Offset 15.00ft L
Ground Surface Elev. 436.90 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 349.40 ft
Begin Core Elev. 347.90 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding. Lightly weathered throughout with some chert replacement. Vertical fracture with thin clay parting from -91.8' to -92.3'. Highly fractured from -92.3' to -92.8'. Horizontal fracture spacing of 19.0". 347.90	-90	1	98	87		463.0
342.90 LIMESTONE-Light gray to gray with horizontal to wavy bedding. Lightly weathered throughout with some chert replacement. Thin clay partings @ -96.3', & -97.8'. Vertical fracture from -97.8' to -99.0'. Horizontal fracture spacing of 3.6".	-95	2	94	43		1039.0
337.90 End Of Boring @ -99.0' Boring Grouted Upon Completion	-100					
	-105					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-2\4\CADD\Structures\CADD Sheets\0090504-72K47-010-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-010-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:42:59 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - II
SN 009-0504

SCALE: | SHEET 125 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	321
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Kenyon Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 06212

SOIL BORING LOG

Page 1 of 3

Date 8/25/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P1
Station 2031+93
Offset 35.50ft R
Ground Surface Elev. 436.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.1 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black 436.10			
Clayey SAND-trace roots and vegetation-brown-very loose	AS		19
	2		
	1		20
	1		
433.60			
CLAY LOAM-brown-stiff			
	1		
	2	1.0	25
-5	3	B	
431.10			
Fine SAND-brown-very loose to medium dense			
	0		
	0		
	0		
	1		
	1		
-10	1		
GRADATION SAMPLE P1-1			
	1		
	1		
	1		
	1		
	2		
-15	5		
	2		
	3		
	4		
	3		
	5		
-20	8		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-brown-very loose to medium dense *(continued)*			
	4		
	6		
	8		
	5		
-25	5		
	7		
411.10			
Fine to Medium SAND-some small gravel-gray-medium dense to dense			
	9		
	9		
	14		
	8		
	11		
-30	12		
GRADATION SAMPLE P1-2			
	5		
	7		
-35	7		
	14		
	15		
-40	17		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\06212 TENG US 67 RECONSTRUCTION, BEARDSTOWN, IL\06212 BORING LOGS\06212_LOG.GPJ 6/24/10

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Kenyon Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 06212

SOIL BORING LOG

Page 2 of 3

Date 8/25/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P1
Station 2031+93
Offset 35.50ft R
Ground Surface Elev. 436.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.1 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium SAND-some small gravel-gray-medium dense to dense *(continued)*			
	11		
	14		
-45	16		
	10		
	7		
-50	10		
384.60			
Medium to Coarse SAN-some Gravel-gray-medium dense to dense			
	11		
	13		
-55	14		
GRADATION SAMPLE P1-3			
	9		
	12		
-60	16		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAN-some Gravel-gray-medium dense to dense *(continued)*			
	10		
	10		
-65	35		
	13		
	17		
-70	23		
	11		
	14		
-75	13		
Boring Stopped 8/25/09 Boring Resumed 8/26/09			
359.60			
Fine to Medium SAND with some Gravel-gray-very dense			
	29		
GRADATION SAMPLE P1-4	100/4"		
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\06212 TENG US 67 RECONSTRUCTION, BEARDSTOWN, IL\06212 BORING LOGS\06212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-011-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-011-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:43:26 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - III
SN 009-0504

SCALE: | SHEET 126 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	322
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Kirkham Court, Suite 204
Naperville, Illinois 60565
(630) 355-7818

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 8/25/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P1
Station 2031+93
Offset 35.50ft R
Ground Surface Elev. 436.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.1 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
Fine to Medium SAND with some Gravel-gray-very dense *(continued)*				
352.60	100/4"			
Rotary Drilling From -84.0' to -84.5'. Driller's Observation: Apparent Bedrock				
352.10 -85				
Borehole continued with rock coring.				
-90				
-95				
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Kirkham Court, Suite 204
Naperville, Illinois 60565
(630) 355-7818

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 8/25/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P1
Station 2031+93
Offset 35.50ft R
Ground Surface Elev. 436.60 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 352.60 ft
Begin Core Elev. 352.10 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-light gray to gray with horizontal to wavy bedding and little to no weathering. Horizontal fracture with thin clay parting @ -93.7"	352.10 -85	1	100	89		2310.0
	-90					986.0
	342.10 -95	2	100	61		
LIMESTONE-light gray to gray with horizontal to wavy bedding and lightly weathered. Highly fractured & weathered @ base.	339.10					
LIMESTONE- Highly fractured & weathered throughout.	338.60	3	67	0		
LIMESTONE-light gray to gray with horizontal to wavy bedding and lightly weathered. 6" clay seam from -99.8' to -100.3'	-100	4	80	44		1108.0
	336.10					
End Of Boring @ -100.5' Boring Grouted Upon Completion						

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Z:\PROJECTS\2008\090212 TEWG US 67 RECONSTRUCTION, BEARDSTOWN, IL\0902\2 BORING LOGS\090212_LOG.GPJ 6/24/10
FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-2\4\CADD\Structures\CADD Sheets\0090504-72K47-012-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-012-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:43:53 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - IV
SN 009-0504

SCALE: | SHEET 127 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	323
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 8/17/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P2
Station 2034+95
Offset 40.00ft R
Ground Surface Elev. 439.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 421.9 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY with Gravel-brown & gray-loose (Fill)	AS		20
	1		
	2		24
	2		
	1		
	2		15
434.90 -5	3		
SILTY CLAY-brown, gray & black-medium stiff to stiff (Fill) Wet	1		
	2	1.0	28
	3	P	
	2		
	2	0.5	32
-10	4	P	
429.40			
SANDY CLAY-gray-very soft to medium stiff	0		
	0	0.2	36
	1	B	
	0		
	1	0.1	19
-15	1	B	
	1		
	1	0.7	18
421.90 ▼	2	B	
Fine SAND-some small gravel-brown-loose to medium dense	3		
-20	4		
	5		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some small gravel-brown-loose to medium dense *(continued)*	3		
	3		
	4		
	2		
	2		
-25	4		
	3		
	4		
	7		
	3		
	4		
-30	5		
	4		
	4		
-35	5		
	4		
	6		
399.90 -40	8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 8/17/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P2
Station 2034+95
Offset 40.00ft R
Ground Surface Elev. 439.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 421.9 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium SAND-brown-medium dense			
	9		
	13		
-45	10		
	6		
	7		
389.90 -50	9		
Coarse SAND with some Gravel-brown & gray-medium dense to very dense	8		
	8		
-55	9		
	9		
	13		
-60	13		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND with some Gravel-brown & gray-medium dense to very dense *(continued)*			
	11		
	13		
Medium to fine. -65	13		
	9		
	9		
Medium to coarse. -70	11		
	20		
	37		
Coarse with Limestone & Cobbles. -75	26		
	22		
	36		
-80	28		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-013-Borings.dgn

QUIGG ENGINEERING INC	USER NAME = zdavidson	DESIGNED - KFO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	0090504-72K47-013-Borings.dgn	DRAWN - JDC	REVISED -	SOIL BORING AND ROCK CORE LOGS - V SN 009-0504
	PLOT SCALE = N/A	CHECKED - MDC	REVISED -	SCALE: SHEET 128 OF 162 SHEETS STA. TO STA.
	PLOT DATE = 5/22/2023 9:44:20 AM	DATE - May 2023	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	324
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 955-2458

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 8/17/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P2
Station 2034+95
Offset 40.00ft R
Ground Surface Elev. 439.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 421.9 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND with some Gravel-brown & gray-medium dense to very dense *(continued)*		50/5"		
	-85			
Boring Stopped 8/17/09 Boring Resumed 8/20/09				
351.90 Borehole continued with rock coring.	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 955-2458

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 2

Date 8/17/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P2
Station 2034+95
Offset 40.00ft R
Ground Surface Elev. 439.90 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 349.90 ft
Begin Core Elev. 351.90 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Cobbles & Boulders	351.90	1				
	349.90 -90					
LIMESTONE-light gray with horizontal bedding. Weathered throughout.	349.40	1	100	100		
Rotary Drilling. Reset casing.	348.90					
LIMESTONE-light gray to gray with horizontal to wavy bedding. Slightly porous & weathered with some chert. Vertical fracture from -91.2' to -91.9'. Horizontal fracture spacing of 4.6".	347.40	2	100	28		
LIMESTONE-light gray to gray with horizontal to wavy bedding. Some lightly weathered horizontal fractures. Horizontal fracture spacing of 8.6".	-95	3	98	88		
	343.90					884.0
LIMESTONE-light gray to gray with horizontal to wavy bedding & some chert replacement. Some weathered horizontal fractures. 3/4" hard shale seam @ -96.8'. 1/2" soft clay parting @ -97.4'. Horizontal fracture spacing of 3.9".	-100	4	100	60		
	338.90					580.0
LIMESTONE-light gray with horizontal to wavy bedding & some chert replacement. Some light weathering in fractures. Horizontal fracture spacing of 3.0".	336.40	5	100	40		
LIMESTONE-light gray to gray with horizontal to wavy bedding & some chert replacement. Some weathering in fractures. 1/2" soft clay parting @ 104.4'. Horizontal fracture spacing of 4.6". Drillers Note: Lost all water at -104.5'.	-105	6	92	67		660.0
						1109.0

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-014-Borings.dgn

Z:\PROJECTS\2009\0821 2 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\08212 BORING LOGS\08212_LOG.GPJ 5/24/10

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-014-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:44:47 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - VI
SN 009-0504

SCALE: | SHEET 129 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	325
		CONTRACT NO. 72K47		
		ILLINOIS FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2816

ROCK CORE LOG

GSI Job No. 08212
Page 2 of 2
Date 8/17/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler CORING METHOD NX-double tube
STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P2
Station 2034+95
Offset 40.00ft R
Ground Surface Elev. 439.90 ft
CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 349.90 ft
Begin Core Elev. 351.90 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-light gray to gray with horizontal to wavy bedding & some chert replacement. Some weathering in fractures. 1/2" soft clay parting @ 104.4'. Horizontal fracture spacing of 4.6". Drillers Note: Lost all water at -104.5'. *(continued)*					402.0
-110					
328.90					
End Of Boring @ -111.0' Boring Backfilled with Cuttings Upon Completion					
-115					
-120					
-125					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 136 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2816

SOIL BORING LOG

GSI Job No. 08212
Page 1 of 1
Date 10/6/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic
STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P2-PC
Station 2035+08
Offset 32.50ft L
Ground Surface Elev. 427.50 ft
Surface Water Elev. 429.50 ft
Stream Bed Elev. 427.50 ft
Groundwater Elev.:
First Encounter 427.5 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some Shells-gray-loose to medium dense			
	4		
-5	6		
	5		
	3		
	4		
	3		
	1		
-10	3		
	3		
416.00			
Medium to Coarse SANDY GRAVEL-gray-medium dense	2		
	3		
	5		
	5		
-15	7		
	12		
411.00			
Fine to Medium SANDY GRAVEL-gray-medium dense	5		
	9		
	9		
	5		
-20	5		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium SANDY GRAVEL-gray-medium dense *(continued)* with some small gravel	8		
	7		
	10		
with some gravel	8		
	4		
-25	9		
	11		
	5		
	9		
	12		
398.50			
Medium to Coarse SAND-some small gravel-gray-medium dense to dense	7		
-30	8		
	12		
	5		
	9		
	9		
393.50			
Coarse SAND-some small gravel-gray-medium dense	5		
-35	5		
	8		
	9		
	13		
	20		
389.50			
End Of Boring @ -38.0'			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\090212 TEMG US 67 RECONSTRUCTION, BEARDSTOWN, IL\90212 BORING LOGS\090212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-015-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-015-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:45:13 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - VII
SN 009-0504
SCALE: SHEET 130 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	326
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/12/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B4
Station 644+28
Offset 7.50ft RT
Ground Surface Elev. 416.80 ft

Surface Water Elev. 436.30 ft
Stream Bed Elev. 416.80 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense Gray, Wet SAND, medium-grained, with shells (SP)			
	3		
	5		20
-5	6		
	2		
	6		NR
406.80 -10	6		
Very Loose to Medium Dense Gray, Moist to Wet SAND, coarse-grained, trace gravel and shells (SP)	2		
	7		13
	7		
	3		
	6		18
-15	4		
	3		
	3		13
	3		
	5		
	4		12
-20	4		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Loose to Medium Dense Gray, Moist to Wet SAND, coarse-grained, trace gravel and shells (SP) *(continued)*	2		
	4		15
	5		
	3		
	2		12
-25	3		
	2		
	1		11
	2		
	2		
	2		16
-30	3		
384.80			
Loose to Dense Gray, Moist to Wet SAND, medium-grained, trace gravel (SP)	8		
	14		17
-35	22		
	3		
	2		14
-40	4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/12/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B4
Station 644+28
Offset 7.50ft RT
Ground Surface Elev. 416.80 ft

Surface Water Elev. 436.30 ft
Stream Bed Elev. 416.80 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose to Dense Gray, Moist to Wet SAND, medium-grained, trace gravel (SP) *(continued)*			
374.80			
Loose to Dense Gray, Moist to Wet SAND, coarse-grained, with gravel (SPG)	7		
	25		12
-45	19		
	12		
	15		16
-50	15		
364.80			
Medium Dense to Very Dense Gray, Moist SAND, coarse-grained, with shells (SP)	11		
	14		13
-55	15		
	5		
	26		12
-60	50/4"		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense to Very Dense Gray, Moist SAND, coarse-grained, with shells (SP) *(continued)*			
	10		
	50/3"		13
-65			
349.80			
LIMESTONE, Blueish-Gray, Slightly Weathered, Slightly Fractured Rock Fragments from 67' - 69' Core Run 1: 67' - 77' Recovery: 89.2% RQD: 76.7% (Good)			
-70			
1/2" Shale Seam at 72.5'			913.0
-75			
1/4" Clay Seam at 75' 1/4" Shale Seam at 76'			
339.80			
LIMESTONE - Blueish-Gray - Slightly Weathered, Moderately to Heavily Fractured, Some Vugs Core Run 2: 77' - 87' Recovery: 94.2% RQD: 70.0% (Fair)			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-016-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-016-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:45:38 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - VIII
SN 009-0504

SCALE: SHEET 131 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	327
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 3 of 3

Date 5/12/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

COUNTY CASS DRILLING RIG CME-75 HAMMER TYPE AUTO
Latitude , Longitude
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B4
Station 644+28
Offset 7.50ft RT
Ground Surface Elev. 416.80 ft

Surface Water Elev. 436.30 ft
Stream Bed Elev. 416.80 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
LIMESTONE - Blueish-Gray - Slightly Weathered, Moderately to Heavily Fractured, Some Vugs			
Core Run 2: 77' - 87' Recovery: 94.2% RQD: 70.0% (Fair) *(continued)* 1/4" Clay Seams at 80.5' - 81' 1/2" Void at 81.5' 1/4" Clay Seam at 82.5'		944.0	
-85			
3" Clay Seam at 87' 329.80			
LIMESTONE - Gray - Moderately Weathered, Moderately Fractured, Some Vugs			
Core Run 3: 87' - 97' Recovery: 100.0% RQD: 87.5% (Good) Quartz Deposit at 89 to 91.5'		484.0	
-90			
-95			
319.80			
LIMESTONE - Gray - Moderately Weathered, Moderately Fractured			
Core Run 4: 97' - 107' Recovery: 95.0% RQD: 89.2% (Good)			
-100			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
LIMESTONE - Gray - Moderately Weathered, Moderately Fractured			
Core Run 4: 97' - 107' Recovery: 95.0% RQD: 89.2% (Good) *(continued)*		409.0	
-105			
309.80			
LIMESTONE - Gray - Slightly Weathered, Slightly Fractured			
Core Run 5: 107' - 117' Recovery: 98.8% RQD: 88.4% (Good)		676.0	
-110			
-115			
299.80			
End of Boring			
-120			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
895 Aftercel Court, Suite 204
Naperville, Illinois 60563
(630) 955-2818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 9/29/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P3
Station 2037+90
Offset 34.50ft L
Ground Surface Elev. 413.40 ft

Surface Water Elev. 429.40 ft
Stream Bed Elev. 413.40 ft

Groundwater Elev.:
First Encounter 413.4 ft
Upon Completion n/a ft
After n/a Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some small Gravel-gray-loose to medium dense	2		
	1		
	3		
	1		
	3		
	7		
GRADATION SAMPLE P3-1			
-5			
	2		
	5		
	6		
405.90			
Medium to Coarse SAND-with small Gravel-gray-medium dense	4		
	6		
	10		
-10			
	3		
	7		
GRADATION SAMPLE P3-2	12		
	5		
	6		
	13		
-15			
	7		
	8		
	14		
	5		
	9		
	11		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAND-with small Gravel-gray-medium dense *(continued)*	6		
	8		
	13		
391.40			
Fine SAND-with small Gravel-gray-medium dense	5		
	10		
	9		
-25			
	8		
	11		
GRADATION SAMPLE P3-3	13		
	7		
	9		
	10		
-30			
380.90			
Medium to Coarse SANDY GRAVEL-gray-medium dense	8		
	10		
	12		
-35			
GRADATION SAMPLE P3-4			
	6		
	11		
	10		
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\08212 TEMP\08212 LOG\08212 BORING LOG\08212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-017-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-017-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:46:01 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - IX
SN 009-0504

SCALE: | SHEET 132 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	328
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 9/29/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P3
Station 2037+90
Offset 34.50ft L
Ground Surface Elev. 413.40 ft

Surface Water Elev. 429.40 ft
Stream Bed Elev. 413.40 ft

Groundwater Elev.:
First Encounter 413.4 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium to Coarse SANDY GRAVEL-gray-medium dense *(continued)*
	5			
	9			
	13			
-45				End 09-29-09 Begin 09-30-09
	6			
	8			
	15			
-50				
360.90				Coarse SAND with Gravel-gray-dense to very dense
	7			
	10			
	17			
-55				GRADATION SAMPLE P3-5
	9			
	13			
	15			
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Coarse SAND with Gravel-gray-dense to very dense *(continued)*
	52			
	105/6"			
				Boring Stopped 9/29/09
				Boring Resumed 10/5/09
348.40 -65				Borehole continued with rock coring.
-70				
-75				
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 9/29/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P3
Station 2037+90
Offset 34.50ft L
Ground Surface Elev. 413.40 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 348.40 ft
Begin Core Elev. 348.40 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	Description
	1	93	61		872.0	LIMESTONE-gray & lightly weathered becoming lighter gray @ -70.5' with horizontal to wavy bedding. Some chert replacement. Numerous horizontal fractures below -71.1'. Horizontal fracture spacing of 5.0".
-70						
338.40 -75					768.0	
	2	97	4			LIMESTONE-light gray to gray & weathered with horizontal to wavy bedding. Some chert replacement. Numerous horizontal fractures throughout. Horizontal fracture spacing of 2.5".
						End Of Boring @ -85.0'
-80					918.0	
328.40 -85						

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-241\CADD\Structures\CADD Sheets\0090504-72K47-018-Borings.dgn

QUIGG ENGINEERING INC	USER NAME = zdavidson	DESIGNED - KFO	REVISED -
	0090504-72K47-018-Borings.dgn	DRAWN - JDC	REVISED -
	PLOT SCALE = N/A	CHECKED - MDC	REVISED -
	PLOT DATE = 5/22/2023 9:46:26 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - X
SN 009-0504

SCALE: | SHEET 133 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	329
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
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GSI Job No. 06212

SOIL BORING LOG

Page 1 of 1

Date 9/29/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P3-CD
Station 2038+00
Offset 34.50ft R
Ground Surface Elev. 413.40 ft

Surface Water Elev. 429.40 ft
Stream Bed Elev. 413.40 ft

Groundwater Elev.:
First Encounter 413.4 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	1			SANDY GRAVEL-gray-very loose to medium dense
	1			
	2			
	3			
	6			
	7			with some small gravel
408.40				
-5	2			SANDY GRAVEL-gray-medium dense
	5			
	9			
	3			
	7			
	8			
-10	4			
	9			
	5			
	6			
	3			
	8			
-15	5			
	2			
	10			
	4			
	3			
-20	12			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	3			SANDY GRAVEL-gray-medium dense *(continued)*
	6			
	10			
	2			
	9			
389.40	6			
-25				SANDY GRAVEL-gray-medium dense
	5			
	7			
	8			
385.90	7			
	9			SANDY GRAVEL-gray-medium dense
	12			
-30	6			
	8			
381.90	14			
				End Of Boring @ -31.5'
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 3

Date 5/18/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD/MH

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC., TWP., RNG.,
Latitude , Longitude

COUNTY CASS DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B5
Station 648+34
Offset 8.60ft RT
Ground Surface Elev. 415.50 ft

Surface Water Elev. 435.50 ft
Stream Bed Elev. 415.50 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Very Loose to Loose Gray, Wet SAND, fine-grained, with shells, trace gravel (SP)
	2			
	1		22	
-5	4			
	2			
	2		NR	
	1			
407.50				
	1			Very Loose to Medium Dense Gray, Wet SAND, fine-grained, trace shells (SP)
	1		23	
-10	1			
	1			
	6		NR	
	7			
402.50				
	4			Loose to Medium Dense Gray, Wet SAND, medium-grained, trace gravel and shells (SP)
	4		18	
-15	4			
	3			
	5		16	
	4			
	5			
	6		22	
-20	5			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Loose to Medium Dense Gray, Wet SAND, medium-grained, trace gravel and shells (SP) *(continued)*
	2			
	2		19	
	4			
	3			
	11		21	
-25	13			
	5			
	5		NR	
	6			
	6			
	10		20	
-30	9			
	5			
	5		19	
-35	8			
	3			
	2		18	
-40	4			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-019-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-019-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:46:49 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XI
SN 009-0504

SCALE: SHEET 134 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	330
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/18/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD/MH

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC., TWP., RNG.,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B5
Station 648+34
Offset 8.60ft RT
Ground Surface Elev. 415.50 ft

Surface Water Elev. 435.50 ft
Stream Bed Elev. 415.50 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose to Medium Dense Gray, Wet SAND, medium-grained, trace gravel and shells (SP) *(continued)*				
	373.50			
Medium Dense to Very Dense Gray, Moist to Wet SAND, coarse-grained, trace gravel (SP)		2		
		5		14
	-45	10		
		7		
		12		16
	-50	16		
		8		
		9		19
	-55	11		
		15		
		50/5"		15
	-60			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense to Very Dense Gray, Moist to Wet SAND, coarse-grained, trace gravel (SP) *(continued)*				
	353.50			
Very Dense Gray, Wet SAND, coarse-grained, with gravel (SPG)		50/1"		26
	-65			
	346.50			
LIMESTONE - Gray - Weathered Auger refusal at 70 feet	345.50	-70		
LIMESTONE - Gray - Slightly Weathered, Moderately Fractured Rock Fragments at 70' - 71' Core Run 1: 70' - 80' Recovery: 94.2% RQD: 77.5% (Good) 1/4" Clay Seams at 74.5'		-75	1088.0	
	335.50	-80		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/18/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD/MH

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC., TWP., RNG.,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B5
Station 648+34
Offset 8.60ft RT
Ground Surface Elev. 415.50 ft

Surface Water Elev. 435.50 ft
Stream Bed Elev. 415.50 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
LIMESTONE - Gray - Moderately Weathered, Moderately Fractured, Some Vugs Core Run 2: 80' - 90' Recovery: 98.7% RQD: 77.1%% (good) 2" Shale Seam at 81.5' 1" Clay Seam at 83'			844.0	
	-85			
2" Quartz Seam at 89.75'	325.50	-90		
LIMESTONE - Gray - Moderately Weathered, Moderately Fractured, Some Vugs Core Run 3: 90' - 100' Recovery: 97.5% RQD: 80.4% (Good) 1" Quartz Seam at 92'		-95	362.0	
	315.50	-100		

End of Boring

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
LIMESTONE - Gray - Heavily Weathered, Heavily Fractured, Some Vugs Core Run 4: 100' - 105.8' Recovery: 97.1% RQD: 50.0% (Fair) Rock Fragments at 105'				
	-105			
	309.70			
LIMESTONE - Gray - Moderately Weathered, Slightly Fractured Core Run 5: 105.8' - 110' Recovery: 100.0% RQD: 98.0% (Excellent)			505.0	
	305.50	-110		
LIMESTONE - Gray - Slightly weathered, Slightly Fractured, Some Vugs Core Run 5: 110' - 120' Recovery: 100.0% RQD: 90.0% (Excellent)			873.0	
	-115			
	295.50	-120		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-020-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-020-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:47:12 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XII
SN 009-0504

SCALE: SHEET 135 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	331
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2438

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 10/7/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P4
Station 2043+40
Offset 56.00ft R
Ground Surface Elev. 414.60 ft

Surface Water Elev. 429.60 ft
Stream Bed Elev. 414.60 ft

Groundwater Elev.:
First Encounter 414.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				River Muck mixed with Wood, Shells & Sand-dark gray-very loose
	1			
	2		61	
	1			
410.60				
				Fine SAND-some Shells-gray-very loose
-5	1			
	1		43	
	2			
	1			
	1			
	2			
405.60				
				SILTY CLAY-gray-very soft
-10	1			
	1	<0.25 P	54	
	1			
403.10				
				SILT-dark brown & gray-very loose
	0			
	0		48	
	0			
400.60				
				Fine to Medium SANDY GRAVEL-gray-medium dense
-15	1			
	1			with shells
	7			
	3			GRADATION SAMPLE P4-1
	7			
	13			
				with shells
-20	4			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	6			Fine to Medium SANDY GRAVEL-gray-medium dense *(continued)*
	10			
	7			
	8			
391.10	12			
				Fine SAND-some gravel-gray-medium dense
-25	6			
	8			
	13			
	6			GRADATION SAMPLE P4-2
	10			
	12			
-30	5			
	6			
	7			
	7			
	13			
	12			Fine Sand
-35				
	7			
	12			
376.10	17			Fine Sand
				Fine to Medium SAND-some small gravel-gray-medium dense to dense
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2438

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 10/7/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P4
Station 2043+40
Offset 56.00ft R
Ground Surface Elev. 414.60 ft

Surface Water Elev. 429.60 ft
Stream Bed Elev. 414.60 ft

Groundwater Elev.:
First Encounter 414.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Fine to Medium SAND-some small gravel-gray-medium dense to dense *(continued)*
	7			
	8			
	9			
-45				
				GRADATION SAMPLE P4-3
	12			
	14			
	12			
-50				
	9			
	18			
361.10	20			
				Coarse SANDY GRAVEL-gray-dense to very dense
-55				
				GRADATION SAMPLE P4-4
	18			
	57			
	32			
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Coarse SANDY GRAVEL-gray-dense to very dense *(continued)*
	45			
	100/6"			
351.10				Boring Stopped 10/7/2009 Boring Resumed 10/8/2009
				Borehole continued with rock coring.
-65				
-70				
-75				
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-234\CADD\Structures\CADD Sheets\0090504-72K47-021-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-021-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:47:34 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XIII
SN 009-0504

SCALE: | SHEET 136 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	332
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 10/7/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P4
Station 2043+40
Offset 56.00ft R
Ground Surface Elev. 414.60 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 351.10 ft
Begin Core Elev. 351.10 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-light gray to gray with horizontal to wavy bedding. Weathered with numerous horizontal fractures throughout. Some chert replacement. Horizontal fracture spacing of 5.0". 351.10	1	87	67		
-65					
346.10					892.0
LIMESTONE-light gray to gray with horizontal to wavy bedding. Lightly weathered with numerous horizontal fractures throughout. Some chert replacement. Horizontal fracture spacing of 3.0".	2	100	40		
-70					
-75					
336.10					693.0
LIMESTONE-light gray to gray with horizontal to wavy bedding. Weathered & slightly porous with numerous horizontal fractures throughout. Some chert replacement. Horizontal fracture spacing of 4.6".	3	100	72		
-80					
End Of Boring @ -83.5' 331.10					232.0

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 1

Date 10/6/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P4-CD
Station 2043+42
Offset 40.00ft L
Ground Surface Elev. 420.50 ft

Surface Water Elev. 429.50 ft
Stream Bed Elev. 420.50 ft

Groundwater Elev.:
First Encounter 420.5 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some small Gravel & Shells-gray-very loose to loose			
	4		
	3		
	2		
-5			
	3		
	2		
	2		
413.00			
Fine Sandy SILT-dark gray-very loose	1		
	1		83
	1		
-10			
	1		
	1		37
	1		
407.50			
SILTY CLAY-gray-very soft	1		
	2	0.3	46
	2	P	
-15			
	1		
	2	0.3	51
	3	P	
402.50			
Fine to Medium SAND-some small Gravel & Shells-gray-medium dense	3		
	3		
	5		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium SAND-some small Gravel & Shells-gray-medium dense *(continued)*			
	3		
	6		
	12		
	7		
	10		
	12		
-25			
	5		
	5		
	8		
	6		
	8		
	12		
-30			
	6		
	9		
	11		
	7		
	10		
	13		
-35			
	6		
	10		
383.50	12		
End Of Boring @ 37.0'			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-022-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-022-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:47:58 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XIV
SN 009-0504

SCALE: | SHEET 137 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	333
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/10/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

Latitude , Longitude

COUNTY CASS DRILLING RIG CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B6
Station 651+54
Offset 10.90ft RT
Ground Surface Elev. 428.60 ft

Surface Water Elev. 436.60 ft
Stream Bed Elev. 428.60 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Very Soft Black and Gray, Very Moist SILTY CLAY, with Sand, trace organics and shells (CL/ML)
	WH			
	WH	<0.25	26	
	WH			
	1			
-5	1 2	<0.25	39	
	1			
	1 2	<0.25	36	
421.10				
	1			Loose Gray, wet CLAYEY SAND, trace silt, organics and shells
-10	1 2		25	
	WH			
	WH 1		28	
415.60				
	2			Loose Gray. Wet SAND, fine-grained, with shells (SP)
-15	2 2		22	
412.60				
	2			Loose Gray, Wet SAND, fine-grained, trace gravel and shells (SP)
	2 4		23	
	2			
-20	3 2		23	
407.60				
	2			Loose to Medium Dense Gray, Moist to Wet SAND, medium-grained, trace gravel and shells (SP)
	3 4		20	
	4			
-25	5 5		19	
	3			
	5 11		17	
	6			
	9 12		13	
397.60				
	8			Medium Dense to Dense Gray, Moist to Wet SAND, medium-grained, with gravel (SPG)
	10 13		20	
	4			
-40	6 11		20	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/10/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

Latitude , Longitude

COUNTY CASS DRILLING RIG CME-75 HAMMER TYPE AUTO

DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B6
Station 651+54
Offset 10.90ft RT
Ground Surface Elev. 428.60 ft

Surface Water Elev. 436.60 ft
Stream Bed Elev. 428.60 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium Dense to Dense Gray, Moist to Wet SAND, medium-grained, with gravel (SPG) *(continued)*
	6			
	7 9		17	
-45				
	8			
	15 14		14	
-50				
	5			
	8 12		15	
-55				
	13			
	14 13		19	
-60				
	6			Medium Dense to Dense Gray, Moist to Wet SAND, medium-grained, with gravel (SPG) *(continued)*
	8 6		15	
-65				
	9			
	14 22		14	
356.60				
	18			Very Dense Gray, Moist SAND, coarse-grained, with gravel (SPG)
	25 27		8	
-75				
351.10				
	(50/1")			LIMESTONE - Gray - Weathered Auger refusal at 78.5 feet
350.10				
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-2\4\CADD\Structures\CADD Sheets\0090504-72K47-023-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-023-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:48:25 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XV
SN 009-0504

SCALE: SHEET 138 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	334
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/10/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B6
Station 651+54
Offset 10.90ft RT
Ground Surface Elev. 428.60 ft

Surface Water Elev. 436.60 ft
Stream Bed Elev. 428.60 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				LIMESTONE - Light-Gray - Slightly Weathered, Slightly Fractured, Some Vugs
				Core Run 1: 78.5' - 88.5'
				Recovery: 100.0%
				RQD: 83.8% (Good) *(continued)*
		732.0		1/4" Clay Deposits at 81'
				1/4" Clay Deposits at 82'
-85				
				1/4" Clay Deposits at 85'
340.10				
				LIMESTONE - Light-Gray - Moderately Weathered, Moderately Fractured
-90				
				Core Run 2: 88.5' - 98.5'
				Recovery: 100.0%
				RQD: 79.6% (Good)
				Rock Fragments and Clay Deposits at 91' - 92.5'
		637.0		
-95				
330.10				
-100				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
		367.0		LIMESTONE - Light-Gray - Heavily Weathered, Moderately to Heavily Fractured
				Core Run 3: 98.5' - 108.5'
				Recovery: 95.8%
				RQD: 67.1% (Fair) *(continued)*
-105				
				3" Quartz Deposit with Pyrite at 105.5'
320.10				Rock Fragments at 108'
				LIMESTONE - Light-Gray - Slightly to Heavily Weathered, Slightly to Heavily Fractured, Vuggy
-110				
		370.0		Core Run 4: 108.5' - 118.5'
				Recovery: 93.8%
				RQD: 54.6% (Fair)
-115				
310.10				
-120				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 5/10/22

ROUTE US 67 (FAP 310) DESCRIPTION US 67 over Illinois River LOGGED BY DD

SECTION 9-4: 85-1 LOCATION Illinois River at US 67 Bridge, SEC. , TWP. , RNG. ,

COUNTY CASS DRILLING RIG Latitude , Longitude CME-75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 91

STRUCT. NO. 009-0504
Station

BORING NO. B6
Station 651+54
Offset 10.90ft RT
Ground Surface Elev. 428.60 ft

Surface Water Elev. 436.60 ft
Stream Bed Elev. 428.60 ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				LIMESTONE - Gray - Slightly Weathered, Moderately Fractured, Some Vugs
				Core Run 5: 118.5' - 128.5'
				Recovery: 98.3%
				RQD: 92.5% (Excellent) *(continued)*
-125				
300.10				End of Boring
-130				
-135				
-140				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-024-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-024-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:48:49 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XVI
SN 009-0504

SCALE: | SHEET 139 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	335
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical | Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 9/2/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P5
Station 2045+49
Offset 15.00ft L
Ground Surface Elev. 436.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 429.7 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY-brown-very loose to loose	AS		24
	1		
	3	4.0	18
	3	P	
	1		
-5	3	2.5	19
	3	P	
	1		
	1	0.5	28
	1	P	
	1		
	1	0.6	29
-10	1	B	
	1		
	0	0.3	44
	1	B	
	1		
	0	0.1	36
-15	1	B	
	0		
	0	0.0	38
	1	B	
	2		
	2		28
-20	2		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY-brown-very loose to loose *(continued)* 415.70			
Fine SAND with some shells-gray-loose to medium dense	1		
	2		
	5		
	3		
	4		
-25	3		
	6		
	6		
	3		
	3		
	3		
-30	3		
403.20			
Fine to medium SAND-some gravel-gray-medium dense	4		
	6		
-35	7		
	9		
	10		
-40	10		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\09212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\09212 BORING LOGS\09212_LOG.GPJ 6/24/10

Geo Services, Inc.
Geotechnical | Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 9/2/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P5
Station 2045+49
Offset 15.00ft L
Ground Surface Elev. 436.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 429.7 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to medium SAND-some gravel-gray-medium dense *(continued)*			
	9		
	10		
-45	10		
	7		
	9		
-50	12		
	13		
383.20			
Fine SAND-some gravel-gray-dense to very dense	22		
-55	26		
	25		
	37		
-60	37		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some gravel-gray-dense to very dense *(continued)* 373.20			
Medium to coarse SAND-some gravel-gray-medium dense to dense	11		
	12		
-65	11		
	8		
	8		
-70	8		
	6		
	7		
-75	8		
	11		
	18		
-80	39		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\09212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\09212 BORING LOGS\09212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-025-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-025-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:49:13 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XVII
SN 009-0504

SCALE: | SHEET 140 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	336
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2518

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 9/2/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P5
Station 2045+49
Offset 15.00ft L
Ground Surface Elev. 436.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 429.7 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to coarse SAND-some gravel- gray-medium dense to dense *(continued)*				
	352.70	27		
FRACTURED LIMESTONE with Sand & Gravel- gray-very dense Boring Stopped 9/2/09 Boring Resumed 9/3/09	-85	100/2"		
	349.20			
Rotary Drilling From -87.5' to -88.0'. Driller's Observation: Apparent Bedrock	348.70			
Borehole continued with rock coring.	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2518

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 9/2/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P5
Station 2045+49
Offset 15.00ft L
Ground Surface Elev. 436.70 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 349.20 ft
Begin Core Elev. 348.70 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Gray with horizontal bedding, becoming lighter gray @ -91.3' and wavy bedding @ -93.8'. Some light weathering in fractures. Very thin clay partings @ -91.8', -92.0' & -93.8'. Horizontal fracture spacing of 6.6". *(continued)*	-90	1	95	88		483.0
	-95					741.0
	336.70					
LIMESTONE-light gray to gray with horizontal to wavy bedding. Lightly weathered with 1/2" clay parting @ -99.3'. 4.5 " clay seam from -100.0' to -100.4'. Horizontal fracture spacing of 5.0".	-100	2	100	68		1082.0
	333.70					
End Of Boring @ -103.0' Boring Backfilled with Cuttings Upon Completion	-105					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
Geotechnical Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 8/31/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P6
Station 2048+09
Offset 15.00ft R
Ground Surface Elev. 437.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL with Sand-dark brown 436.93			
SANDY CLAY-dark brown-very soft to very stiff	AS		33
	1		
	1	0.1	33
	1	B	
	2		
	3	2.6	25
-5	5	B	
	2		
	3	0.3	26
	3	B	
	0		
	1	0.2	29
-10	1	B	
	0		
	1	0.0	32
	1	B	
	0		
	1	0.2	31
-15	1	B	
	1		
	0	0.3	32
	1	P	
418.60 Fine SAND-some small gravel and shells-gray-very loose to medium dense			
	2		
-20	2		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine SAND-some small gravel and shells-gray-very loose to medium dense (continued)			
	1		
	1		
	2		
	1		
-25	1		
	1		
	1		
	5		
-30	5		
	5		
	4		
	7		
-35	7		
398.60 Medium to coarse SAND-some gravel-gray-medium dense-to very dense			
	12		
	18		
-40	19		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 8/31/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P6
Station 2048+09
Offset 15.00ft R
Ground Surface Elev. 437.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to coarse SAND-some gravel-gray-medium dense-to very dense (continued)			
	11		
	18		
-45	24		
	11		
	15		
-50	17		
	9		
	14		
-55	21		
380.10 Medium to Coarse SAND-gray-very dense			
	21		
	34		
-60	37		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAND-gray-very dense (continued)			
	18		
	25		
-65	31		
370.10 Medium to Coarse SAND with small gravel-gray-medium dense			
	6		
	8		
-70	9		
363.60 Coarse SAND-some small gravel-gray-medium dense			
	5		
	11		
-75	7		
	14		
	11		
-80	13		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-027-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-027-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:50:05 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XIX
SN 009-0504

SCALE: | SHEET 142 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	338
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 8/31/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P6
Station 2048+09
Offset 15.00ft R
Ground Surface Elev. 437.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND-some small gravel-gray-medium dense *(continued)*			
353.10	41		
Coarse SANDY GRAVEL-gray-very dense	100/5"		
-85			
Boring Stopped 8/31/09 Boring Resumed 9/1/09			
350.10			
Rotary Drilling From -87.0' to -87.5'. Driller's Observation: Apparent Bedrock			
349.60			
Borehole continued with rock coring.			
-90			
-95			
-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 8/31/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P6
Station 2048+09
Offset 15.00ft R
Ground Surface Elev. 437.10 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 350.10 ft
Begin Core Elev. 349.60 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding with little weathering. 1/2"clay parting @ -92.2'. Weathered fracture from -95.8' to -96.0'. Horizontal fracture spacing of 15.0".	1	100	98		1052.0
-90					
-95					786.0
339.60					
LIMESTONE-light gray to gray with horizontal to wavy bedding & lightly weathered. 1/4" clay parting @ -100.5'. 1/2" clay partings @ -101.5' & -101.7'. Horizontal fracture spacing of 7.0".	2	97	92		864.0
-100					1043.0
-105					
End Of Boring @ -107.5' Boring Backfilled with Cuttings Upon Completion					
329.60					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-028-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-028-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:50:30 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XX
SN 009-0504

SCALE: SHEET 143 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	339
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2213

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 9/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P7
Station 2050+15
Offset 15.00ft L
Ground Surface Elev. 434.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 410.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-dark brown 433.60			
SILTY CLAY-brown to dark gray-very soft to stiff	AS		21
	2		
	2	1.8	19
	3	B	
	1		
-5	2	1.3	21
	3	B	
Becoming organic @ -6.0'.			
	2		
	3	1.1	25
	3	B	
	1		
	1	0.5	25
-10	2	B	
	0		
	0	0.1	46
	1	B	
	0		
	0		33
-15	0		
	0		
	0	0.2	37
	0		
	0		
	0	0.3	29
-20	1	P	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-brown to dark gray-very soft to stiff *(continued)*			
	0		
	0	0.3	31
	1	P	
410.60 ▼			
Medium to coarse SAND-gray-very loose to medium dense	0		
-25	3		
GRADATION SAMPLE P7-1			
	1		
	3		
	4		
	1		
	4		
-30	7		
	9		
	11		
-35	12		
	9		
395.60			
Coarse SAND-small gravel-gray-medium dense	13		
-40	14		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2213

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 9/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P7
Station 2050+15
Offset 15.00ft L
Ground Surface Elev. 434.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 410.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND-small gravel-gray-medium dense *(continued)*			
GRADATION SAMPLE P7-2			
	11		
	13		
-45	16		
386.10			
Coarse SANDY GRAVEL-gray-medium dense	11		
	9		
-50	11		
380.60			
Fine to medium SAND-gray-medium dense	8		
	10		
-55	14		
GRADATION SAMPLE P7-3			
	7		
	8		
-60	8		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to medium SAND-gray-medium dense *(continued)*			
	7		
	9		
-65	14		
	11		
	13		
-70	13		
360.60			
Coarse SAND-some gravel-gray-medium dense to dense	12		
	10		
-75	14		
GRADATION SAMPLE P7-4			
	40		
	25		
-80	32		
small gravel			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\09212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\09212 BORING LOGS\09212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-029-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -
0090504-72K47-029-Borings.dgn	DRAWN - JDC	REVISED -
PLOT SCALE = N/A	CHECKED - MDC	REVISED -
PLOT DATE = 5/22/2023 9:50:55 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXI
SN 009-0504

SCALE: | SHEET 144 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	340
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2838

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 9/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P7
Station 2050+15
Offset 15.00ft L
Ground Surface Elev. 434.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 410.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Coarse SAND-some gravel-gray-medium dense to dense *(continued)*				
Boring Stopped 9/4/09 Boring Resumed 9/8/09	351.10			
Driller's Observation: Apparent Bedrock	350.10	100/0"		
Borehole continued with rock coring.	-85			
	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

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Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2838

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 9/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P7
Station 2050+15
Offset 15.00ft L
Ground Surface Elev. 434.10 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 351.10 ft
Begin Core Elev. 350.10 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding & lightly weathering. Horizontal joint spacings of approx. 0.67'.	350.10	1	100	89		662.0
	-85					
	-90					447.0
LIMESTONE-Light gray to gray with horizontal to wavy bedding becoming lighter gray with horizontal bedding @ -97.0'. Lightly weathered with 4.0" clay parting from -96.2' to -98.5'. Horizontal fracture spacing of 7.6".	340.10	2	100	82		
	-95					1041.0
End Of Boring @ -99.0' Boring Backfilled with Cuttings Upon Completion	335.10					
	-100					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Z:\PROJECTS\0090504\212 FEHG, US 67 RECONSTRUCTION, BEMIDSTOWN, IL\8212 BORING LOGS\0821 2_LOG.GPJ 8/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-030-Borings.dgn

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GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 9/9/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P8
Station 2051+66
Offset 15.00ft R
Ground Surface Elev. 433.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.2 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-dark brown 432.70		1		
SILTY CLAY-brown-very soft to soft		AS		39
		1		
		1	0.3	25
		2	B	
		1		
	▼ -5	1	0.4	26
		2	B	
		1		
		1	0.4	28
		2	B	
425.20 SILTY CLAY LOAM-brown -very soft		1		
		1	0.1	26
	-10	2	B	
422.70 CLAY LOAM-brown-very soft		0		
		0	0.0	30
		1	B	
		0		
		0	0.1	31
	-15	1	B	
417.70 SILTY CLAY-dark gray-very soft to soft		0		
		0	0.2	28
		0	B	
		0		
		1	0.2	34
	-20	1	B	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark gray-very soft to soft *(continued)*		0		
		1	0.4	37
		1	B	
CLAY LOAM-dark gray-very soft		0		
		1	0.2	38
	-25	1	B	
407.20 Fine SAND-gray-medium dense		2		
		5		
		7		
404.70 Coarse SAND-some gravel-gray-medium dense		8		
		6		
	-30	6		
		8		
		8		
	-35	8		
394.70 Fine to medium SAND-some gravel- gray-medium dense to dense		8		
		15		
	-40	20		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2006\060312 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\06212 BORING LOGS\06212_LOG.GPJ 6/24/10

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 9/9/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P8
Station 2051+66
Offset 15.00ft R
Ground Surface Elev. 433.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.2 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to medium SAND-some gravel- gray-medium dense to dense *(continued)*				
		12		
		17		
	-45	13		
		20		
		18		
	-50	10		
		7		
		9		
	-55	11		
		8		
		12		
	-60	15		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to medium SAND-some gravel- gray-medium dense to dense *(continued)*				
		10		
		14		
	-65	18		
364.70 SANDY GRAVEL-gray- medium dense to very dense		11		
		15		
	-70	11		
		68		
		37		
	-75	28		
		37		
		31		
	-80	42		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2006\060312 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\06212 BORING LOGS\06212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-2\4\CADD\Structures\CADD Sheets\0090504-72K47-031-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-031-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:51:45 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXIII
SN 009-0504

SCALE: | SHEET 146 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	342
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 9/9/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P8
Station 2051+66
Offset 15.00ft R
Ground Surface Elev. 433.20 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 428.2 ft ▼
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY GRAVEL-gray-medium dense to very dense *(continued)*				
351.70				
Rotary Drilling From 81.5 to -82.0'. 351.20		100/0"		
Driller's Observation: Apparent Bedrock				
Boring Stopped 9/9/09 Boring Resumed 9/10/09				
Borehole continued with rock coring.				
	-85			
	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

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Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 9/9/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P8
Station 2051+66
Offset 15.00ft R
Ground Surface Elev. 433.20 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 351.70 ft
Begin Core Elev. 351.20 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding & lightly weathering. Weathered fractures @ -88.1' & -88.2'. Horizontal fracture spacing of 8.0". 351.20		1	100	90		
	-85					1100.0
	-90					920.0
341.20						
LIMESTONE-Light gray to gray with horizontal to wavy bedding, lightly weathered with 3.3" clay seam from -92.6' to -93.0'. Interstratified (1/4" to 1/2") clay seams from -93.0' to -93.6'. Horizontal fracture spacing of 6.0".		2	100	77		
	-95					775.0
336.20						
End Of Boring @ -97.0' Boring Backfilled with Cuttings Upon Completion						
	-100					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Z:\PROJECTS\2009\08212 TENG. US 67 RECONSTRUCTION, BEARDSTOWN, IL\08212 BORING LOGS\08212_LOG GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-032-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-032-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:52:10 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXIV
SN 009-0504

SCALE: SHEET 147 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	343
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 3

Date 9/14/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P9
Station 2053+16
Offset 15.00ft L
Ground Surface Elev. 434.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.0 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY-brown-very soft to medium stiff			
	AS		29
	1		
	2	0.6	22
	2	B	
	1		
	2	0.2	26
-5	3	B	
	2		
	2	0.5	26
	3	B	
	1		
	1	0.4	26
-10	1	B	
	1		
	1	0.1	32
	1	B	
421.00			
SANDY CLAY-gray-very soft to soft	1		
	1	0.3	36
-15	1	B	
	1		
	1	0.1	35
	1	B	
	1		
	2	0.1	31
-20	2	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY-gray-very soft to soft *(continued)*			
413.50			
Fine to medium SAND-some small gravel-gray-loose to dense	1		
	2		
	2		
	2		
	3		
-25	4		
	4		
	6		
	7		
	7		
	7		
-30	8		
	6		
	9		
-35	12		
	7		
	9		
-40	11		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2828

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 9/14/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P9
Station 2053+16
Offset 15.00ft L
Ground Surface Elev. 434.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.0 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to medium SAND-some small gravel-gray-loose to dense *(continued)*			
	13		
	17		
-45	17		
	14		
	22		
-50	19		
381.00			
Medium to coarse SANDY GRAVEL-gray-medium dense to very dense	11		
	15		
-55	11		
	8		
with some small gravel	10		
-60	13		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to coarse SANDY GRAVEL-gray-medium dense to very dense *(continued)*			
	16		
	33		
with limestone chips	41		
-65			
	12		
Coarse Sandy Gravel	13		
	11		
-70			
	40		
Coarse	52		
	38		
-75			
	85		
Coarse	100/0"		
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2006\06212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\06212 BORING LOGS\060212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-033-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-033-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:52:34 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXV
SN 009-0504

SCALE: | SHEET 148 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	344
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-3438

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 9/14/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P9
Station 2053+16
Offset 15.00ft L
Ground Surface Elev. 434.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 431.0 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Boring Stopped 9/14/09	354.00			
Boring Resumed 9/15/09				
Borehole continued with rock coring.				
	-85			
	-90			
	-95			
	-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 9/14/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P9
Station 2053+16
Offset 15.00ft L
Ground Surface Elev. 434.50 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 354.50 ft
Begin Core Elev. 354.00 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding & lightly weathering. Weathered fractures @ -88.1' & -88.2'. Horizontal fracture spacing of 8.0".	354.00	1	100	91		1297.0
	-85					
	-90					982.0
LIMESTONE-Light gray to gray with horizontal to wavy bedding. Weathered from -91.4' to -92.1'. 4.0" clay seam from -92.1' to -92.44'. Horizontal fracture spacing of 6.0".	344.00	2	100	82		
	-95					1761.0
End Of Boring @ -95.5' Boring Backfilled with Cuttings Upon Completion	339.00					
	-100					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-034-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-034-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:52:59 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXVI
SN 009-0504

SCALE: SHEET 149 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	345
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P10
Station 2054+66
Offset 40.00ft R
Ground Surface Elev. 429.30 ft

Surface Water Elev. 439.44 ft
Stream Bed Elev. 429.30 ft

Groundwater Elev.:
First Encounter 429.3 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark brown-very soft to stiff	W O H	0.2 B	38
	2		
	3 4	1.2 B	26
becoming brown & gray	1		
-5	2 3	1.7 B	26
	1		
	2 2	0.5 B	27
	1		
-10	1 1	0.4 B	34
becoming gray	1		
	1 1	0.3 B	34
becoming very silty & sandy	1		
-15	0 1	0.1 B	29
412.60 Fine to Medium SAND-gray-loose	2		
	3 4		
-20			
Fine to Medium SAND-gray-loose *(continued)*			
-25	3		
	4 5		
402.60 Medium to Coarse SAND with Gravel-gray-medium dense	7		
	7 8		
-30			
	7		
	10 14		
-35			
	7		
	11 15		
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P10
Station 2054+66
Offset 40.00ft R
Ground Surface Elev. 429.30 ft

Surface Water Elev. 439.44 ft
Stream Bed Elev. 429.30 ft

Groundwater Elev.:
First Encounter 429.3 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAND with Gravel-gray-medium dense *(continued)*			
387.80 Fine to Medium SAND with Gravel-gray-medium dense to dense	13		
	23 27		
-45			
	12		
	13 16		
-50			
377.80 Medium to Coarse SAND with Gravel-gray-medium dense to dense	9		
	13 17		
-55			
	8		
	19 21		
-60			
Medium to Coarse SAND with Gravel-gray-medium dense to dense *(continued)*			
-65	25		
	29 33		
362.80 SANDY GRAVEL-gray-medium dense to very dense	9		
	11 17		
-70			
	29		
	38 50/2"		
Boring Stopped 3/26/2010 Boring Resumed 3/29/2010			
-75			
353.80 353.30 Driller's Observation: Apparent Top Of Bedrock.			
Borehole continued with rock coring.			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2018\018L020\PH-2 TENG. US 67 RECONSTRUCTION, BEARDSTOWN, IL\08212 BORING LOGS\08212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-035-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -
0090504-72K47-035-Borings.dgn	DRAWN - JDC	REVISED -
PLOT SCALE = N/A	CHECKED - MDC	REVISED -
PLOT DATE = 5/22/2023 9:53:24 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXVII
SN 009-0504

SCALE: | SHEET 150 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	346
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-7018

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P10
Station 2054+66
Offset 40.00ft R
Ground Surface Elev. 429.30 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 353.80 ft
Begin Core Elev. 353.30 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal bedding to wavy bedding. Some light weathering in fractures. 1/4" clay parting @ -80.9'. Weathered horizontal fractures from -81.7' to -81.9'. Horizontal fracture spacing of 9.2". 353.30	1	99	90		1006.0
-80					
-85					1056.0
343.30					
LIMESTONE-Light gray to gray with horizontal bedding to wavy bedding. Lightly weathered with some chert replacement. 1/4" clay parting @ -86.1'. Weathered horizontal fracture zone with 1" clay parting @ -87.3' & 1.5" clay parting @ -87.6'. Horizontal fracture spacing of 4.0".	2	100	83		
-90					728.0
338.30					
End Of Boring @ -91.0'					
-95					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
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805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-7018

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 3/30/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P11
Station 2056+16
Offset 15.00ft L
Ground Surface Elev. 430.70 ft

Surface Water Elev. 438.73 ft
Stream Bed Elev. 430.70 ft

Groundwater Elev.:
First Encounter 430.7 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-dark brown-very soft to medium stiff	W		
	OH		65
	1		
-5	1	0.6	23
	2	B	
	1		
	2	0.9	21
	3	B	
becoming dark brown & gray	2		
-10	2	0.9	24
	3	B	
	1		
	1	0.4	28
	2	B	
becoming dark gray	1		
-15	1	0.4	26
	1	B	
	1		
	1	0.3	29
	1	B	
	1		
-20	1	0.7	32

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-dark brown-very soft to medium stiff *(continued)*	1	B	
Boring Stopped 3/30/2010			
Boring Resumed 3/31/2010			
	1		
-25	1		
	1		
401.70			
Medium to Coarse SAND with Gravel-brown-medium dense to dense	13		
-30	15		
GRADATION SAMPLE P11-1	12		
	15		
-35	31		
	33		
	17		
-40	15		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2008\08212 TENS, US-67 RECONSTRUCTION, BEARDSTOWN, IL\08212 BORING LOGS\08212 LOGS GPJ 6/24/19

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-23\CADD\Structures\CADD Sheets\0090504-72K47-036-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -
0090504-72K47-036-Borings.dgn	DRAWN - JDC	REVISED -
PLOT SCALE = N/A	CHECKED - MDC	REVISED -
PLOT DATE = 5/22/2023 9:53:48 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXVIII
SN 009-0504

SCALE: SHEET 151 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	347
		CONTRACT NO. 72K47		
		ILLINOIS FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2455

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 3/30/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P11
Station 2056+16
Offset 15.00ft L
Ground Surface Elev. 430.70 ft

Surface Water Elev. 438.73 ft
Stream Bed Elev. 430.70 ft

Groundwater Elev.:
First Encounter 430.7 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	14			Medium to Coarse SAND with Gravel-brown-medium dense to dense *(continued)*
	21			
-45	21			
	23			
381.70				
	11			Fine to Medium SAND-brown-medium dense
-50	12			
	12			GRADATION SAMPLE P11-2
	10			
-55	12			
	13			
	6			
-60	6			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	9			Fine to Medium SAND-brown-medium dense *(continued)*
	15			with Gravel
-65	28			
	50/5"			
363.20				
	23			SANDY GRAVEL-brown-very dense
-70	29			
	31			GRADATION SAMPLE P11-3
	40			
-75	50/2"			
				Boring Stopped 3/31/2010
				Boring Resumed 4/2/2010
353.70				
353.20				Driller's Observation: Apparent Top Of Bedrock.
				Borehole continued with rock coring.
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2455

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 3/30/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P11
Station 2056+16
Offset 15.00ft L
Ground Surface Elev. 430.70 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 353.70 ft
Begin Core Elev. 353.20 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
	1	98	83			LIMESTONE-Light gray to gray becoming darker gray from -78.0' to -81.5' with horizontal bedding to wavy bedding. Lightly weathered with some chert replacement. Horizontal fracture spacing of 7.0".
					337.0	
-80						
					467.0	
-85						
343.20					1108.0	
	2	92	52			LIMESTONE-Light gray to gray with horizontal bedding to wavy bedding. Lightly weathered with some chert replacement @ numerous horizontal fractures throughout. Horizontal fracture spacing of 4.0".
-90						
338.20					1003.0	
						End Of Boring @ -92.5'
-95						

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

QUIGG ENGINEERING INC	USER NAME = zdavidson	DESIGNED - KFO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	0090504-72K47-037-Borings.dgn	DRAWN - JDC	REVISED -	SOIL BORING AND ROCK CORE LOGS - XXIX SN 009-0504
	PLOT SCALE = N/A	CHECKED - MDC	REVISED -	SCALE: SHEET 152 OF 162 SHEETS STA. TO STA.
	PLOT DATE = 5/22/2023 9:54:13 AM	DATE - May 2023	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	348
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-037-Borings.dgn

Geo Services, Inc.
Geotechnical| Environmental & Civil Engineering
805 Aurora Ct.,Suite 204
Naperville, Illinois 60565
(630) 355-2838

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 4/2/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P12
Station 2057+67
Offset 15.00ft R
Ground Surface Elev. 429.10 ft

Surface Water Elev. 438.11 ft
Stream Bed Elev. 429.10 ft

Groundwater Elev.:
First Encounter 429.1 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SILTY CLAY-dark brown-very soft to medium stiff
	0			
	1		26	
	1			
	0			
	1	0.4	31	
-5	1	B		
				becoming brown & gray
	2			
	1	0.1	29	
	1	B		
	1			
	2	0.8	31	
	2	B		with some gravel
-10				
	0			becoming gray
	0	0.2	34	
	1	B		
	0			
	0	0.1	26	
	1	B		No Recovery
-15				
	1			
	2	0.1	32	
	3	B		
	0			
	1	0.1	33	
	3	B		with some gravel
-20				Boring Stopped 4/2/2010

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Boring Resumed 4/5/2010 SILTY CLAY-dark brown-very soft to medium stiff *(continued)*
406.10				
	3			Fine to Medium SAND-gray-loose to very dense
	4			
	5			
-25				
	21			
	19			with some gravel
	16			
-30				
	13			
	26			
	27			
-35				
	17			
	15			
	19			with some gravel
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical| Environmental & Civil Engineering
805 Aurora Ct.,Suite 204
Naperville, Illinois 60565
(630) 355-2838

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 4/2/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P12
Station 2057+67
Offset 15.00ft R
Ground Surface Elev. 429.10 ft

Surface Water Elev. 438.11 ft
Stream Bed Elev. 429.10 ft

Groundwater Elev.:
First Encounter 429.1 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Fine to Medium SAND-gray-loose to very dense *(continued)*
	8			
	9			
	12			with some gravel
-45				
	5			
	8			with small gravel
	9			
-50				
	9			
	13			
	14			with small gravel
-55				
	13			
	21			
	50			with small gravel
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Fine to Medium SAND-gray-loose to very dense *(continued)*
366.10				
	17			Medium to Coarse SAND with Gravel-gray-very dense
	50/5"			
-65				
	40			
	50/4"			
-70				
	21			
	50/4"			
-75				with small gravel Boring Stopped 4/5/2010 Boring Resumed 4/6/2010
353.10				
				Borehole continued with rock coring.
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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:\2018\18L020 PH-2 Beardstown IDOT DS CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-038-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-038-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:54:40 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXX
SN 009-0504

SCALE: SHEET 153 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	349
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3868

ROCK CORE LOG

GSI Job No. 06212
Page 1 of 1
Date 4/2/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P12
Station 2057+67
Offset 15.00ft R
Ground Surface Elev. 429.10 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 353.10 ft
Begin Core Elev. 353.10 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding, becoming darker gray from -76.4' to -81.5'. Some chert nodules. 1/4" clay partings @ -81.4' & -81.5'. Becoming weathered @-82.2'. Horizontal fracture spacing of 8.6". 353.10	1	94	82		912.0
-80					460.0
					971.0
-85					
LIMESTONE-Light gray to gray with wavy bedding. Weathered with some chert replacement. 1/2" clay parting @-86.2'. Vertical fracture from -87.0' to -88.2'. Horizontal fracture spacing of 6.0". 343.10	2	100	91		799.0
-90					
End Of Boring @ -91.0' 338.10					
-95					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amhurst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3868

SOIL BORING LOG

GSI Job No. 06212
Page 1 of 2
Date 4/6/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P13
Station 2059+18
Offset 15.00ft L
Ground Surface Elev. 429.40 ft

Surface Water Elev. 437.44 ft
Stream Bed Elev. 429.40 ft

Groundwater Elev.:
First Encounter 429.4 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-dark brown-very soft to stiff	W		
	OH	0.0	33
		P	
becoming gray	1		
-5	2	0.4	32
	3	B	
	2		
-10	3	1.2	27
	3	B	
Boring Stopped 4/6/2010 Boring Resumed 4/7/2010	2		
	3	0.2	34
	3	B	
	1		
	2	0.9	37
	3	B	
becoming brown	2		
-15	3	0.9	32
	3	B	
Clayey SAND-brown-loose 412.90	2		
	3		
	4		
Fine to Medium SAND-brown-medium dense 410.40	5		
-20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium SAND-brown-medium dense *(continued)*	8		
405.40			
Medium to Coarse SAND with small Gravel-brown-medium dense to dense	5		
-25	7		
	9		
	10		
-30	12		
	13		
	35		
-35	33		
with gravel	22		
	12		
-40	9		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\09212 TENG US 67 RECONSTRUCTION, BEARDSTOWN, IL\09212 BORING LOGS\09212 LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-039-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -
0090504-72K47-039-Borings.dgn	DRAWN - JDC	REVISED -
PLOT SCALE = N/A	CHECKED - MDC	REVISED -
PLOT DATE = 5/22/2023 9:55:08 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXI
SN 009-0504
SCALE: SHEET 154 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	350
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 4/6/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P13
Station 2059+18
Offset 15.00ft L
Ground Surface Elev. 429.40 ft

Surface Water Elev. 437.44 ft
Stream Bed Elev. 429.40 ft

Groundwater Elev.:
First Encounter 429.4 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAND with small Gravel-brown-medium dense to dense *(continued)* with gravel	7			Fine to Medium SAND-brown-medium dense to dense *(continued)*	21		
Boring Stopped 4/7/2010							
Boring Resumed 4/8/2010							
	8			365.40 Coarse SAND with small Gravel-brown-medium dense to dense	6		
-45 with gravel	12			-65	8		
	12				11		
380.40 Fine to Medium SAND-brown-medium dense to dense with small gravel	8			becoming gray	15		
-50	13			-70	25		
	19				32		
				355.90 Driller's Observation: Apparent Top Of Bedrock. 354.90			
	6			Borehole continued with rock coring.			
-55 with small gravel	7			-75			
	8						
	9						
-60	17			-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 4/6/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P13
Station 2059+18
Offset 15.00ft L
Ground Surface Elev. 429.40 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 355.90 ft
Begin Core Elev. 354.90 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding, becoming darker gray from -77.0' to -80.7'. Lightly weathered with some chert replacement. Horizontal fracture spacing of 7.0". 354.90	1	94	83		826.0
-75					
					404.0
-80					
					785.0
344.90 LIMESTONE-Light gray to gray with horizontal to wavy bedding. Lightly weathered with 3/4" clay parting @-84.6', 1.75" clay parting @ -85.6' & 1/8" clay parting @ -86.4'. Horizontal fracture spacing of 10.0".	2	83	81		
-85					
					1025.0
339.90 End Of Boring @ -89.5'					
-90					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18L020 PH-2 Bearstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-040-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-040-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:55:35 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXII
SN 009-0504

SCALE: | SHEET 155 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	351
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 369-2818

SOIL BORING LOG

GSI Job No. 08212
Page 1 of 2
Date 4/9/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P14
Station 2060+68
Offset 30.00ft R
Ground Surface Elev. 430.40 ft

Surface Water Elev. 436.90 ft
Stream Bed Elev. 430.40 ft
Groundwater Elev.:
First Encounter 430.4 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray-medium stiff to stiff			
	2		
	2 2	0.9 B	27
-5			
	3		
	3 4	1.4 B	28
becoming brown & gray			
	1		
	2 2	1.1 B	27
-10			
	2		
	3 4	1.3 B	28
	2		
	3 4	1.4 B	31
-15			
	2		
	3 5	1.9 B	28
412.40 Fine to Medium Coarse SAND with Gravel-brown-medium dense to dense	2		
	5 6		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to Medium Coarse SAND with Gravel-brown-medium dense to dense *(continued)*	4		
	6 8		
GRADATION SAMPLE P14-1			
-25			
	5		
	9 17		
-30			
	17		
	17 12		
-35			
	24		
	21 15		
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 369-2818

SOIL BORING LOG

GSI Job No. 08212
Page 2 of 2
Date 4/9/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P14
Station 2060+68
Offset 30.00ft R
Ground Surface Elev. 430.40 ft

Surface Water Elev. 436.90 ft
Stream Bed Elev. 430.40 ft
Groundwater Elev.:
First Encounter 430.4 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
389.90 Medium to Coarse SAND with Gravel-brown-medium dense to dense	8		
	9 11		
GRADATION SAMPLE P14-2			
-45			
	9		
	10 12		
-50			
	6		
	7 11		
-55			
	8		
	11 14		
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to Coarse SAND with Gravel-brown-medium dense to dense *(continued)*	20		
	23 18		
-65			
	6		
	8 12		
-70			
	25		
	31 34		
Boring Stopped 4/9/2010 Boring Resumed 4/12/2010			
356.90 Driller's Observation: Apparent Top Of Bedrock, 356.40			
Borehole continued with rock coring.			
-75			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2005\05212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\05212 BORING LOGS\05212_LOG.GPJ 6/24/10
FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-041-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-041-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:56:02 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXIII
SN 009-0504
SCALE: | SHEET 156 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	352
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9898

ROCK CORE LOG

GSI Job No. 08212
Page 1 of 1
Date 4/9/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P14
Station 2060+68
Offset 30.00ft R
Ground Surface Elev. 430.40 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 356.90 ft
Begin Core Elev. 356.40 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding, becoming darker gray from -80.3' to -82.8'. 1/2" clay parting @ -82.9'. Weathered with numerous horizontal fractures from -82.9' to -84.0'. Horizontal fracture spacing of 10.0". 356.40	1	98	87		1145.0
					1078.0
					435.0
346.40 End Of Boring @ -84.0'					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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(630) 355-9898

SOIL BORING LOG

GSI Job No. 08212
Page 1 of 2
Date 4/13/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P15
Station 2062+18
Offset 15.00ft L
Ground Surface Elev. 430.20 ft

Surface Water Elev. 436.23 ft
Stream Bed Elev. 430.20 ft
Groundwater Elev.:
First Encounter 430.2 ft
Upon Completion n/a ft
After n/a Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-brown & gray-soft to stiff	W		
	WOH	0.4 B	32
	1		
	1	0.3 B	30
	1		
	1		
	1	0.4 B	29
	2		
	2		
	2	1.1 B	31
	3		
	2		
	3	1.7 B	26
	4		
414.20 Fine to Medium SAND-brown-medium dense	5		
	6		
	6		
411.70 Medium To Coarse SAND with small Gravel-medium dense to dense	5		
	6		
	8		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium To Coarse SAND with small Gravel-medium dense to dense *(continued)*	5		
	5		
	7		
	10		
	15		
	12		
	8		
	13		
	14		
	8		
	9		
	10		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2008\08212 TEMS US 67 RECONSTRUCTION, BEARDSTOWN, IL\08212 BORING LOGS\08212_LOG.GPJ 5/24/10

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-042-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-042-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:56:28 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXIV
SN 009-0504

SCALE: SHEET 157 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	353
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical | Environmental & Civil Engineering
805 Aminetal Court, Suite 204
Naperville, Illinois 60565
(630) 355-2515

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 4/13/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P15
Station 2062+18
Offset 15.00ft L
Ground Surface Elev. 430.20 ft

Surface Water Elev. 436.23 ft
Stream Bed Elev. 430.20 ft

Groundwater Elev.:
First Encounter 430.2 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium To Coarse SAND with small Gravel-medium dense to dense *(continued)*			
	11		
	8		
-45	10		
	13		
	17		
	15		
-50			
379.20			
Fine to Medium SAND with small Gravel-brown-medium dense	11		
	9		
	10		
-55			
	8		
	12		
	17		
-60			
Fine to Medium SAND with small Gravel-brown-medium dense *(continued)*			
	9		
	8		
-65	11		
364.20			
SANDY GRAVEL-brown-very dense	14		
	34		
	50		
-70			
	41		
	32		
	35		
Boring Stopped 4/13/2010 Boring Resumed 4/14/2010			
356.20			
Driller's Observation: Apparent Top Of Bedrock. 355.70			
-75			
Borehole continued with rock coring.			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2515

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 4/13/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P15
Station 2062+18
Offset 15.00ft L
Ground Surface Elev. 430.20 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 356.20 ft
Begin Core Elev. 355.70 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-Light gray to gray with horizontal to wavy bedding, becoming weathered below -80.2'. Some calcite replacement in vugs . 1/2" clay parting @ -82.4'. Horizontal fracture spacing of 6.3". 355.70	1	100	88		
-75					
					857.0
					708.0
-80					
					1121.0
345.70					
End Of Boring @ -84.5'					
-85					
-90					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-241\CADD\Structures\CADD Sheets\0090504-72K47-043-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-043-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:56:55 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXV
SN 009-0504

SCALE: | SHEET 158 OF 162 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	354
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

SOIL BORING LOG

Page 1 of 2

Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P16
Station 2063+68
Offset 15.00ft R
Ground Surface Elev. 429.60 ft

Surface Water Elev. 440.15 ft
Stream Bed Elev. 429.60 ft

Groundwater Elev.:
First Encounter 429.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	6			SILTY CLAY-dark brown-soft to very stiff
	10	1.8	25	
	10	B		
	6			
	10	3.5	25	
	12	B		
	2			becoming brown & gray
-5	5	1.6	25	
	5	B		
	2			
	3	1.3	25	
	3	B		
	1			Boring Stopped 3/22/2010 Boring Resumed 3/23/2010
-10	2	0.4	30	
	3	B		
	2			
	1	0.9	32	
	3	B		
	2			
-15	3	1.6	27	
	6	B		
413.10				Fine to Medium SAND with some small gravel-brown-medium dense
	5			
	10			
	12			
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Fine to Medium SAND with some small gravel-brown-medium dense *(continued)*
	6			
	10			
	14			Fine to Medium Coarse with some gravel.
-25				
403.10				Coarse SAND with some Gravel-brown-medium dense to dense
	8			
	13			
	17			
-30				
	7			
	14			with Gravel & Limestone
	16			
-35				
	8			with Gravel & Limestone
	11			
	10			
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
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Naperville, Illinois 60565
(630) 355-2626

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 2

Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-P16
Station 2063+68
Offset 15.00ft R
Ground Surface Elev. 429.60 ft

Surface Water Elev. 440.15 ft
Stream Bed Elev. 429.60 ft

Groundwater Elev.:
First Encounter 429.6 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Coarse SAND with some Gravel-brown-medium dense to dense *(continued)*
	12			
	10			
	10			with Gravel & Limestone
-45				
383.10				Medium to Coarse SAND with some Gravel-brown-medium dense to dense
	8			
	11			
	15			
-50				
	9			
	11			with Gravel
	22			
373.10				Fine to Medium SAND with some small Gravel-brown-medium dense
	11			
	12			
	13			
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Fine to Medium SAND with some small Gravel-brown-medium dense *(continued)*
368.10				
	12			SANDY GRAVEL-brown-medium dense to very dense
	11			
	11			
-65				
	20			
	50/6"			
-70				
	23			
	50/6"			
356.60				Boring Stopped 3/23/2010 Boring Resumed 3/24/2010
356.10				Drillers Observation: Apparent Bedrock
				Borehole continued with rock coring.
-75				
-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Z:\PROJECTS\2009\09212 TENG, US 67 RECONSTRUCTION, BEARDSTOWN, IL\09212 BORING LOGS\09212_LOG.GPJ 6/24/10

FILE NAME = S:\2018\18L020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-044-Borings.dgn

QUIGG ENGINEERING INC

USER NAME = zdavidson	DESIGNED - KFO	REVISED -	
0090504-72K47-044-Borings.dgn	DRAWN - JDC	REVISED -	
PLOT SCALE = N/A	CHECKED - MDC	REVISED -	
PLOT DATE = 5/22/2023 9:57:21 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXVI
SN 009-0504

SCALE: SHEET 159 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	355
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aftercut Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

ROCK CORE LOG

GSI Job No. 08212
Page 1 of 1
Date 3/26/10

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-P16
Station 2063+68
Offset 15.00ft R
Ground Surface Elev. 429.60 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 356.60 ft
Begin Core Elev. 356.10 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-light gray to gray with horizontal to wavy bedding. Lightly weathered with some horizontal fractures throughout. Some chert replacement below -79.3'. Horizontal fracture spacing of 1.4". 356.10	1	97	91		687.0
-75					
					1037.0
-80					
					779.0
LIMESTONE-light gray to gray with horizontal to wavy bedding. Weathered with some horizontal fractures & chert replacement throughout. 1.125" clay parting @ -85.2'. Weathered horizontal fracture zone with thin clay partings from -85.9' to -86.2'. Horizontal fracture spacing of 2.0". 346.10	2	100	88		
-85					
					643.0
End Of Boring @ -88.5' Boring Grouted Upon Completion 341.10					
-90					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aftercut Court, Suite 204
Naperville, Illinois 60565
(630) 355-2818

SOIL BORING LOG

GSI Job No. 08212
Page 1 of 3
Date 8/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH
SECTION 9-4; 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM
COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71
BORING NO. B-NA
Station 2065+08
Offset 15.00ft L
Ground Surface Elev. 455.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 410.0 ft
Upon Completion n/a ft
After ___ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black 454.50			
SILTY CLAY-brown-stiff to hard (Fill)	AS		28
	4		
	6	4.5P	16
	6		
	3		
	5	2.5B	19
-5	7		
	4		
	6	2.3B	22
	7		
	3		
	5	1.75B	22
-10	6		
	2		
	3	1.5B	21
	6		
442.00			
SILTY CLAY-brown and gray-medium stiff to stiff-wet	3		
	5	2.1B	27
-15	7		
	3		
	5	2.0B	25
	7		
	3		
	4	1.4B	25
-20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-brown and gray-medium stiff to stiff-wet *(continued)*			
	3		
	4	1.4B	28
	6		
	3		
	4	1.8B	28
-25	5		
	4		
	6	2.3B	24
	12		
	4		
	7	3.3B	24
-30	10		
	2		
	3	0.8B	30
-35	3		
	3		
	3	0.25B	28
-40	4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

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QUIGG ENGINEERING INC

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PLOT DATE = 5/22/2023 9:57:47 AM	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXVII
SN 009-0504
SCALE: SHEET 160 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	356
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2868

GSI Job No. 08212

SOIL BORING LOG

Page 2 of 3

Date 8/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-NA
Station 2065+08
Offset 15.00ft L
Ground Surface Elev. 455.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 410.0 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SILTY CLAY-brown and gray-medium stiff to stiff-wet *(continued)*
	3			
410.00 -45	4 5			
				Medium to coarse SAND-brown-medium dense to dense
				GRADATION SAMPLE NA-1
	5			
-50	7 9			
	11			
-55	15 20			
380.00 -75				Fine to Medium SAND-brown to gray-medium dense to dense
				GRADATION SAMPLE NA-2
	10			
-80	12 18			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Medium to coarse SAND-brown-medium dense to dense *(continued)*
	12			
	15			
-85	18			
	14			
	14			
-90	18			
	9			
	14			
-95	18			
	10			
	10			
-100	12			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2868

GSI Job No. 08212

SOIL BORING LOG

Page 3 of 3

Date 8/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler DRILLING METHOD Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-NA
Station 2065+08
Offset 15.00ft L
Ground Surface Elev. 455.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 410.0 ft
Upon Completion n/a ft
After ____ Hrs. n/a ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Fine to Medium SAND-brown to gray-medium dense to dense *(continued)*
	16			
	25			
-85	32			
	18			
	28			
-90	50			
361.50				GRAVEL-gray-very dense
	50/3"			
-95				
				Rotary Drilling From -99.0' to -99.5'. Apparent Bedrock
				Drilling Stopped 8/4/09
356.00	50/1"			Drilling Resumed 8/7/09
-100				Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
800 Ambassador Drive, Suite 204
Naperville, Illinois 60565
(630) 355-3419

GSI Job No. 08212

ROCK CORE LOG

Page 1 of 1

Date 8/4/09

ROUTE US 67 (FAP 310) DESCRIPTION US 67 Expressway over Illinois River LOGGED BY VH

SECTION 9-4: 85-1 LOCATION SW 1/4, SEC. 31, TWP. 1, RNG. 1, 3rd PM

COUNTY Cass and Schuyler CORING METHOD NX-double tube

STRUCT. NO. 009-0504
Station 2040+71

BORING NO. B-NA
Station 2065+08
Offset 15.00ft L
Ground Surface Elev. 455.00 ft

CORING BARREL TYPE & SIZE Solid Barrel/NX
Core Diameter 2 in
Top of Rock Elev. 356.00 ft
Begin Core Elev. 355.50 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE-light gray with horizontal bedding-some chert. Horizontal fracture spacing of 9.5".	-100	1	98	88		802.0
	350.50					953.0
LIMESTONE-light gray with horizontal bedding-some chert. Horizontal fracture spacing of 6.0".	-105	2	95	87		435.0
	345.50					761.0
End Of Boring @ -109.5' Boring Grouted Upon Completion	-110					
	-115					

Color pictures of the cores Yes
Cores will be stored for examination until 5 yrs after const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = S:\2018\18IL020 PH-2 Beardstown IDOT D6 CMT PTB 188-24\CADD\Structures\CADD Sheets\0090504-72K47-047-Borings.dgn

QUIGG ENGINEERING INC

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PLOT DATE = 5/22/2023 9:58:41 AM	DATE - May 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS - XXXIX
SN 009-0504

SCALE: SHEET 162 OF 162 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	358
		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

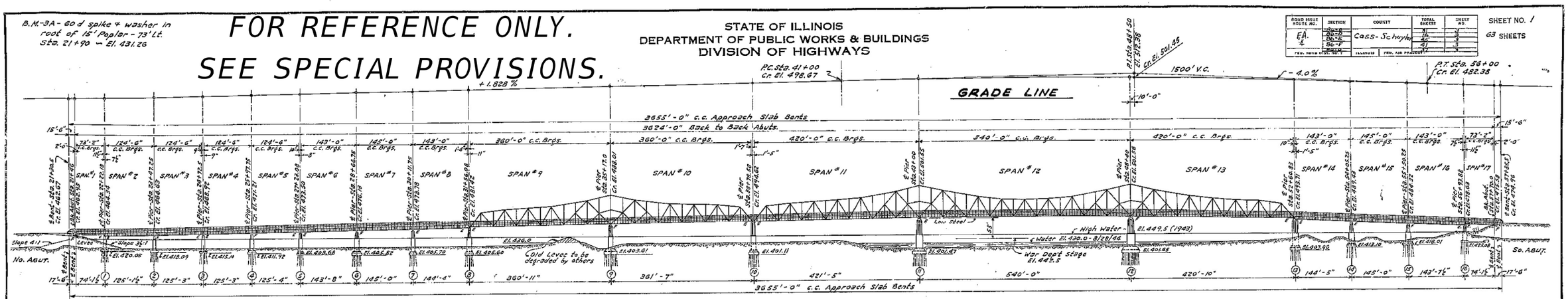
B.M.-3A - 60d spike & washer in root of 15" Poplar - 73' Lt. Sta. 21+90 - El. 431.26

FOR REFERENCE ONLY. SEE SPECIAL PROVISIONS.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 4	86-B-D-E-F-P	Cass-Schuyler	16	1
	86-C		25	2
	86-F		41	3
	86-M		1	4
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
63 SHEETS



TOTAL BILL OF MATERIAL

Item		Superstructure	Substructure	Totals - Sec. B	Totals - Sec. D	Totals - Sec. E	Totals - Sec. F	Totals - Sec. P
Class A Concrete	Cu. Yds.		10,979.1	10,979.1				
Class X Concrete	Cu. Yds.	1503.2	137.1	137.1	1503.2			
Seal Coat Concrete	Cu. Yds.		2,825.6	2,825.6				
Precast Concrete Piling (16") - (40'-0" long)	Lin. Ft.		5960	5960				
" " " (16") - (35'-0" ")	" "		9312	9312				
" " " (16") - (30'-0" ")	" "		400	400				
Precast Concrete Piling (16") - (25'-0" long)	Lin. Ft.		3465	3465				
Precast Concrete Piling (18") - (35'-0" ")	Lin. Ft.		2850	2850				
" " " " (18") - (40'-0" ")	" "		4480	4480				
" " " " (18") - (45'-0" ")	" "		13320	13320				
" " " " (18") - (20'-0" ")	" "		300	300				
Precast Concrete Piling (18") - (25'-0" long)	Lin. Ft.		7535	7535				
Untreated Piling - (30'-0" long)	Lin. Ft.		8250	8250				
Concrete Test Piles (16")	Each		8	8				
Concrete Test Piles (18")	Each		11	11				
Timber Test Piles	Each		4	4				
Cofferdam (Piers-1-3-16)	Each		3	3				
" (Pier-2)	Each		1	1				
" (Piers-4-14)	"		2	2				
" (Pier-5)	"		1	1				
" (Piers-6-15)	"		2	2				
" (Pier-7)	"		1	1				
" (Pier-8)	"		1	1				
" (Pier-9)	"		1	1				
" (Pier-10)	"		1	1				
" (Pier-11)	"		1	1				
" (Pier-12)	"		1	1				
" (Pier-13)	Each		1	1				
Cofferdam Excavation	Cu. Yds.		13,738	13,738				
Borrow Excavation	Cu. Yds.		28,320	28,320				
Structural Steel - Carbon	Lbs.	7,053,480	103,800	103,800	2,720	7,050,760	7,053,480	7,053,480
Structural Steel - A 242	Lbs.	1,280,190				1,280,190	1,280,190	1,280,190
Cast Steel	Lbs.	81,920				81,920	81,920	81,920
Reinforcement Bars	Lbs.	343,820	567,620	567,620	343,820			
Name Plate	Each		2	2				
Compaction by Watersoaking	Cu. Yds.		23,600	23,600				
Frame & Cover	Each		1	1				
Navigation Lighting System						Lump Sum		
Open Steel Floor	Sq. Ft.	9788				9788		9788
Filled Steel Floor	Sq. Ft.	44046				44046		44046
Concrete Filling (Steel Floor)	Sq. Ft.	44046			44046			

DESIGNED - Rwsh.
CHECKED - RSCM.
DRAWN - Rwsh.
CHECKED - RSCM.

Oct 20. 1951
EXAMINED W. E. Hansen BRIDGE ENGINEER
PASSED [illegible] ENGINEER OF DESIGN
APPROVED F. H. Barker CHIEF HIGHWAY ENGINEER

Note:- The bridge work on this Project is divided into the following Contracts:
Sec. B ---------- Substructure
Sec. D -- Concrete Floor & Sidewalks & Conc. Fill in Steel Floor
Sec. E ---------- Erection
Sec. F ---------- Fabrication
Sec. P ---------- Painting

GENERAL NOTES

CONCRETE:
Class "A" concrete shall be used in Piers.
Class "X" concrete shall be used in abuts, floor slab and sidewalks.
The concrete floor slab shall be finished in accordance with Art. 51.18(a) of the Standard Specifications.
The concrete floor slab shall be poured in one continuous operation between joints shown on the plans.

MATERIAL:
All steel shall be structural carbon steel conforming to A.S.T.M. designation A7 except that the main material in all members marked thus ®, shall be Structural low-alloy steel, A.S.T.M. - A 242.
Where copper bearing steel is called for, it shall conform to A.S.T.M. designation A7 with 0.2% copper added.
Steel castings shall conform to A.S.T.M. designation A27, Grade B-1.

RIVETS:
Spans 1 and 17 - ⅞" ℄ rivets throughout.
Spans 2 to 8 incl. and 14 to 16 inclusive - ⅞" ℄ rivets thruout except as noted.
Spans 9 to 13 incl. - ⅞" ℄ rivets throughout, except as noted.

PUNCHING & REAMING:
Holes for ⅞" ℄ rivets shall be punched 1⅛" and holes for ⅞" ℄ rivets shall be punched 15/16" except as noted or as follows: Field and shop splices for all plate girder spans and all main truss connections (both shop and field) shall be punched 1" ℄ and reamed to proper size with all material assembled in the shop in its proper position. Leave assembled for inspection.

PILING:
See Sheet No. 22 for details of Precast Concrete Piling.
Test Piles shall be driven in permanent locations as directed by the Engineer, before ordering or casting Piles.

EXPANSION DEVICE:
Copper bearing steel shall be used in such members as noted on the plans.
Where flame cutting is called for, it shall be done using an automatic machine.
Expansion devices shall be assembled in the shop in their proper position and left assembled for inspection.

WELDING:
All welding shall comply with Art. 55.6(36) of the Standard Specifications.

INSPECTION:
Inspection by the Illinois Division of Highways before painting.

SHOP PAINTING:
The Contractor for Sec. F shall furnish and apply one shop coat of red lead paint to all "structural steel" and "cast steel" in accordance with the Standard Specifications.
Paint applied to the pipe members of the hand rail and the open steel grid floor shall be by dipping. For painting of steel floor - concrete filled-see Special Provisions.

EXPANSION DEVICE:
The Contractor for Sec. F shall apply one shop coat of red lead paint to all surfaces of the expansion devices, except there shall be no paint applied to anchor straps. Surfaces inaccessible after erection shall be painted two shop coats. All paint for shop coats shall be furnished by the Contr. for Sec. F.

FIELD PAINTING:
The Contractor for Sec. S shall furnish and apply red lead paint for spot painting "Structural Steel" after erection. The Contractor for Sec. P shall furnish and apply two field coats of aluminum paint to all "Structural Steel" and "Cast Steel."

STRESSES

Superstructure	Carbon	Low Alloy
Axial Tension - Str. Steel	= 18,000 #/in²	21,000 #/in²
Axial Compression - Str. Steel	= 15000 - ½(l/r)²	17500 - 0.35(l/r)²
Reinforcement Bars - fs	= 20,000 #/in²	
Concrete - fc	= 1,200 #/in²	
n	= 10	

Substructure	
Reinf. Bars - fs	= 20,000 #/in²
Concrete - fc	= 1,200 #/in²
n	= 10

Allowable stresses increased 25% when D.L., L.L. & I stresses are combined with Wind stresses.

LOADING H20-S16

ILLINOIS RIVER BRIDGE AT BEARDSTOWN

PROJECT U-264(1)(2)(3)
F.A. ROUTE 4 [redacted]
SECTION 86-B-D-E-F-P
CASS-SCHUYLER CO.'S.
STA. 39+58

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USER NAME = Ben Holland	DESIGNED - DAC	REVISED -
	DRAWN - DAC	REVISED -
PLOT SCALE = N/A	CHECKED - DH/JTH	REVISED -
PLOT DATE = 5/23/2023 (12:19:56 PM)	DATE - May 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

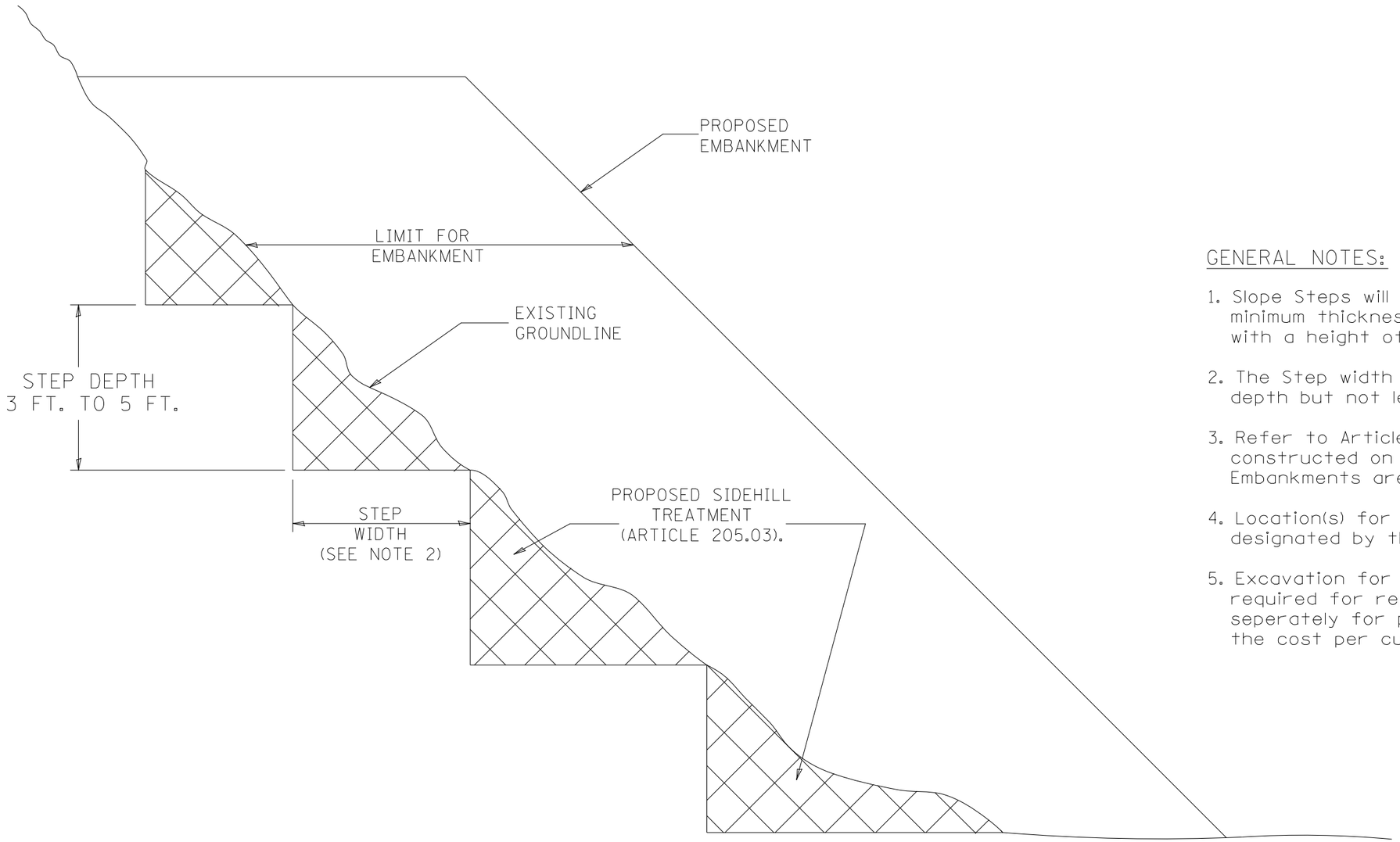
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SN 009-0001

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	CASS/SCHUYLER	455	359
		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12 (300) minimum thickness "silver fills" and on a fills with a height of 10' (3.0 m).

2. The Step width shall be twice the Step depth but not less than 6 feet.

3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

4. Location(s) for slope step treatment shall be designated by the Resident Engineer.

5. Excavation for steps and the embankment required for replacement will not be measured seperately for payment, but will be included in the cost per cubic yard for earth excavation.

REPLACEMENT MATERIAL:

STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

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

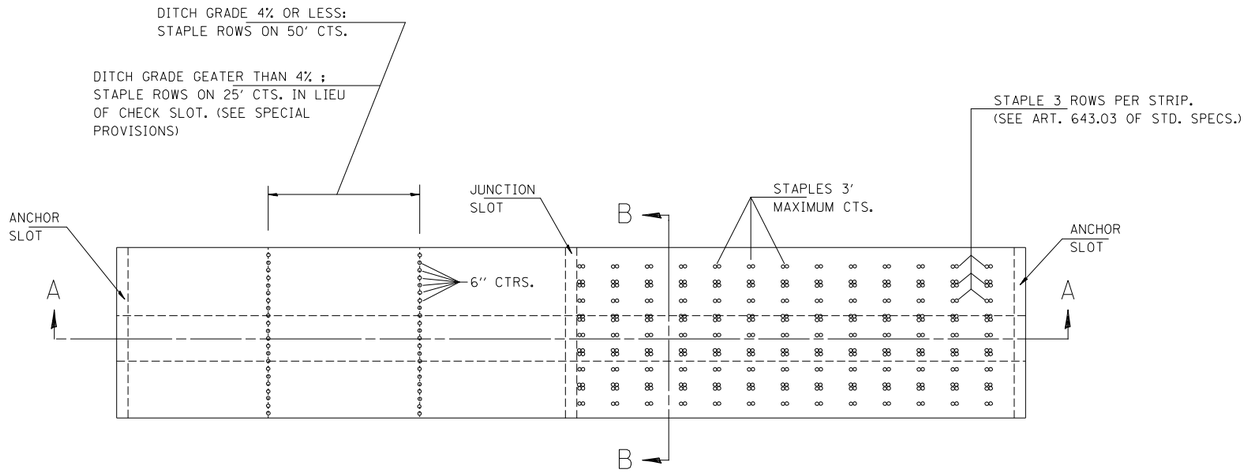
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

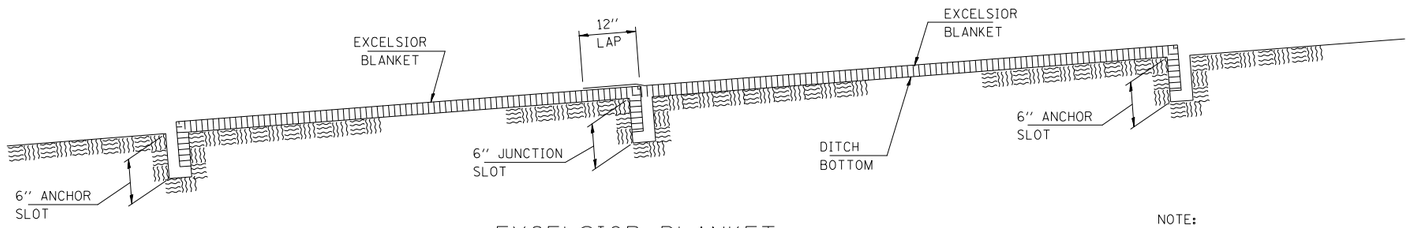
SLOPE STEPS DETAIL

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	* CASS & SCHUYLER	CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			

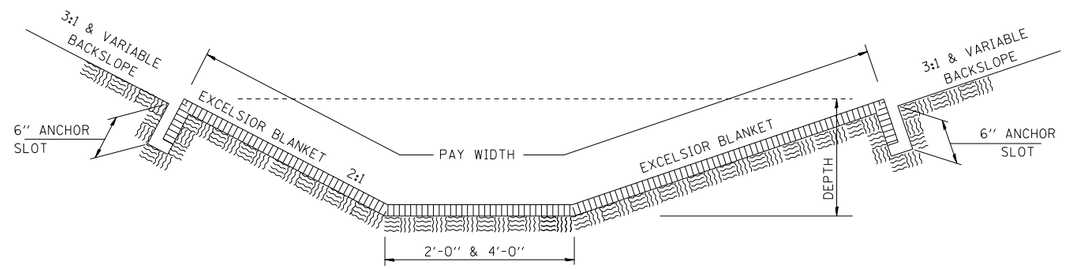


PLAN VIEW & STAPLING LAYOUT FOR
EXCELSIOR BLANKET PLACEMENT IN DITCH



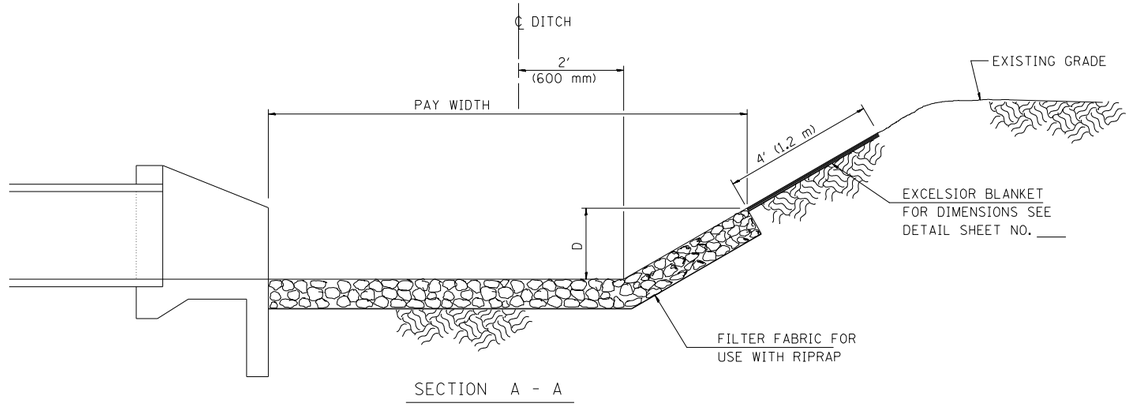
EXCELSIOR BLANKET
SECTION A - A

NOTE:
FOR ADDITIONAL INFORMATION SEE
SPECIAL PROVISIONS - EXCELSIOR BLANKET

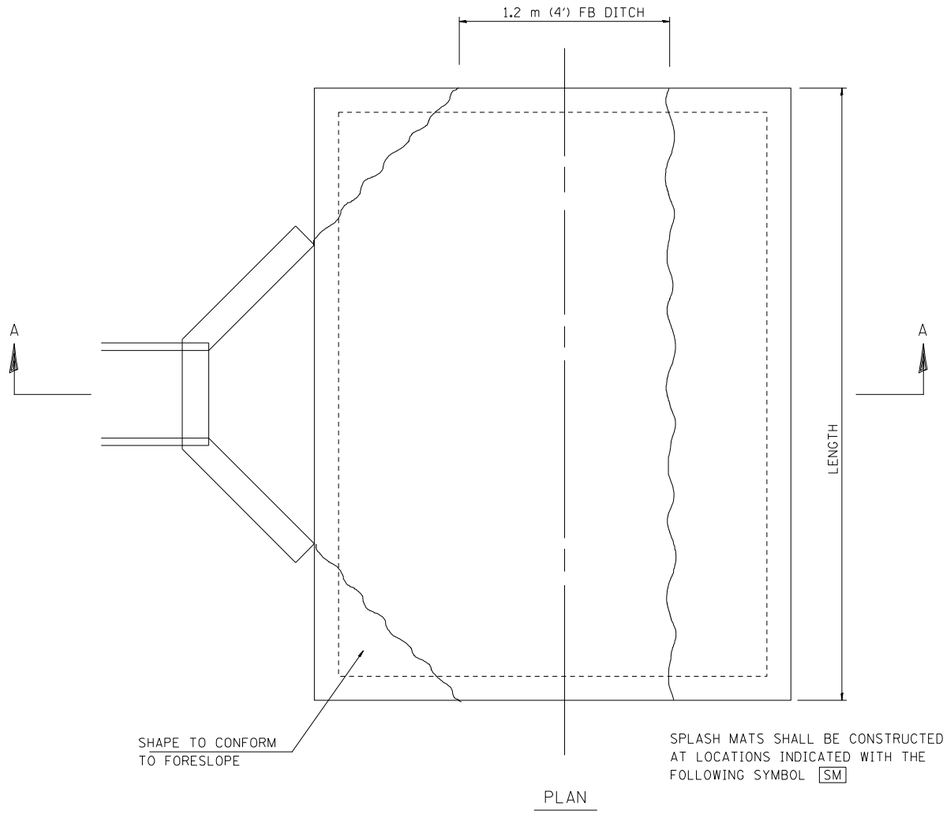


EXCELSIOR BLANKET
SECTION B - B

FILE NAME = L:\IDOT\180601\Draw\Roadway\CADD_Sheets\D672K47_sht_Details_D6.dgn	USER NAME = Brian Bond	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXCELSIOR BLANKET DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CADD	REVISED -			310	(86B-1, 87C)R	*	455	361
Default EXCELSIOR.DGN	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -			* CASS & SCHUYLER		CONTRACT NO. 72K47		
	PLOT DATE = 5/19/2023 (4:08:57 PM)	DATE - JULY 14, 1989	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT			



SECTION A - A



PLAN

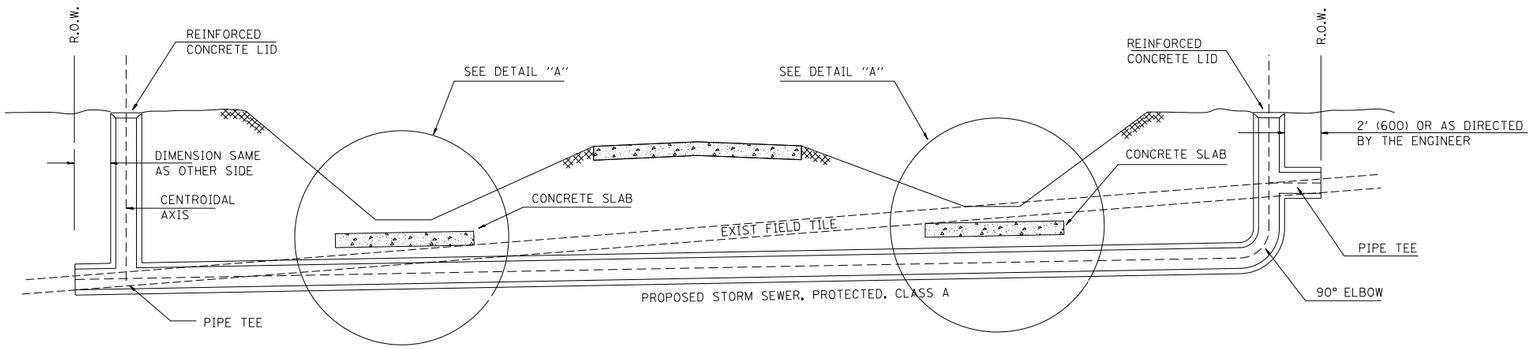
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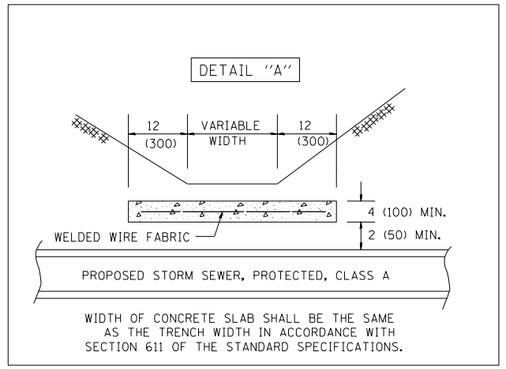
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

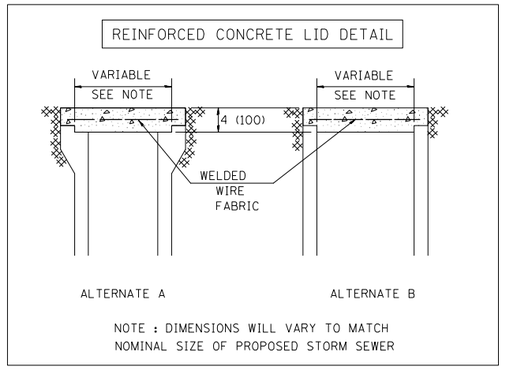
SPLASH MAT DETAILS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	362
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			







GENERAL NOTES

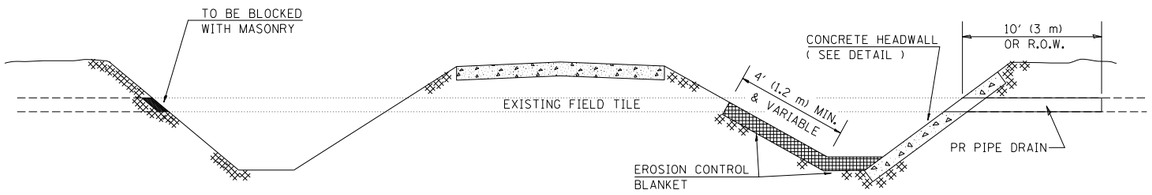
1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT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

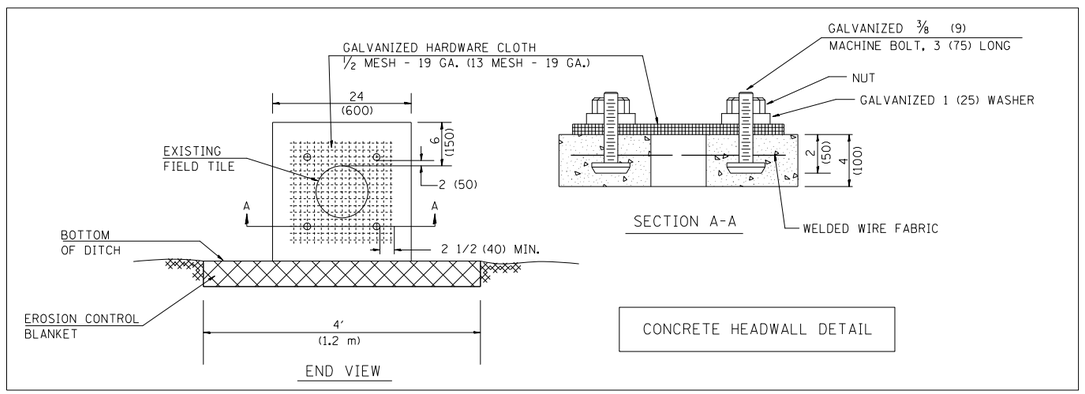
2. THE DIAMETER OF THE PROPOSED STORM SEWER SHALL BE EQUAL TO OR GREATER THAN THE EXISTING FIELD TILE.

3. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR BY THE DEPTH OF COVER. THE LINEAL FEET MEASUREMENT WILL BE ALONG THE CENTRODIAL AXIS AND INCLUDE ALL BENDS, ELBOWS, OR PIPE TEE'S WHICH ARE REQUIRED.

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

5. ALL HARDWARE, WELDED WIRE FABRIC, RODENT SCREENS AND OTHER REINFORCEMENT AND ANCHORS AS SHOWN OR AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST FOR MISCELLANEOUS CONCRETE.





ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

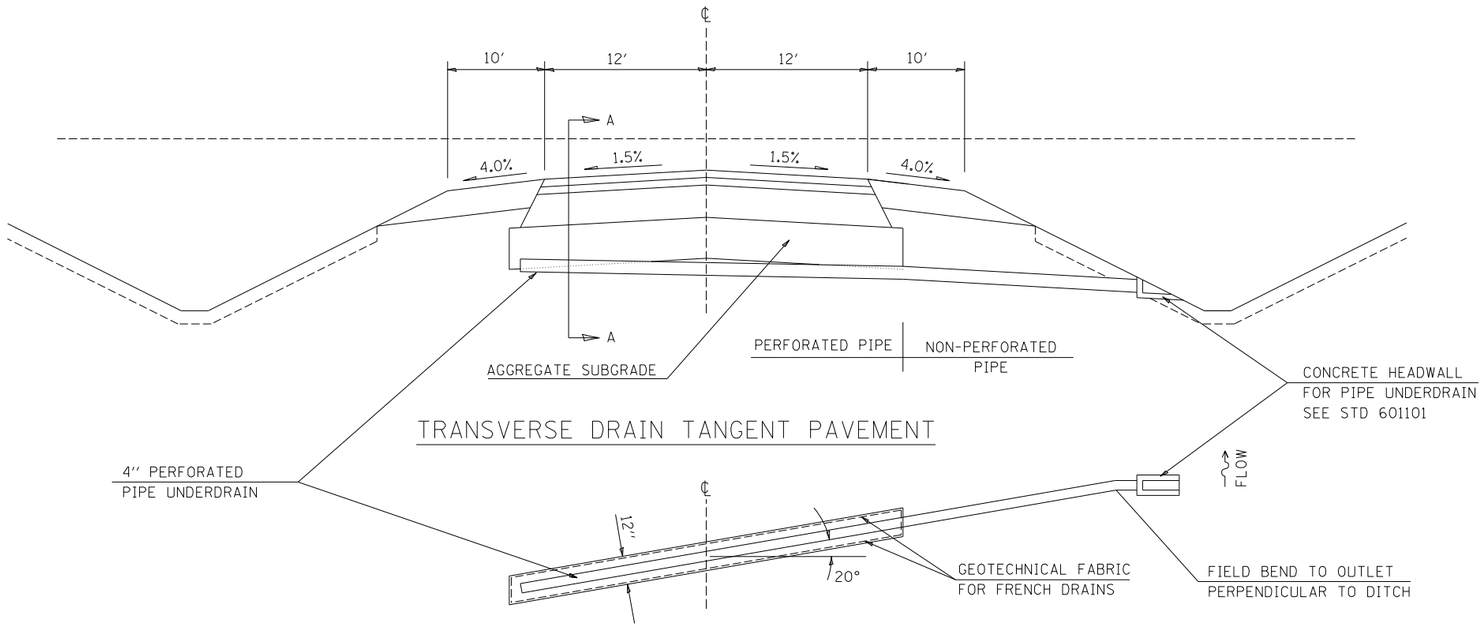
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD TILE REPLACEMENT

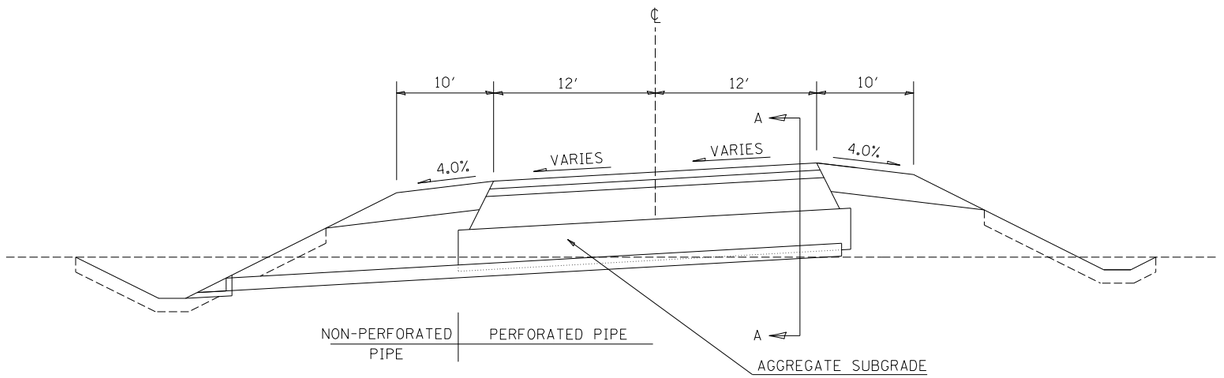
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS FED. AID PROJECT				

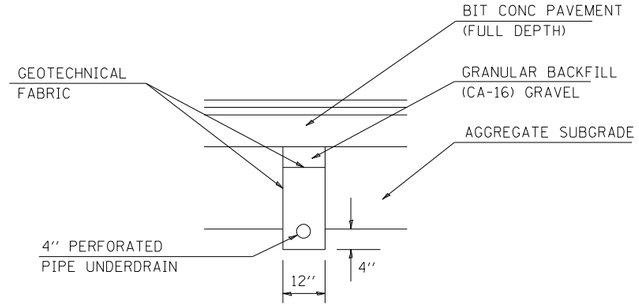


TRANSVERSE DRAIN TANGENT PAVEMENT

PLAN



TRANSVERSE DRAIN SUPERELEVATED PAVEMENT



SECTION A-A

GENERAL NOTES

TRANSVERSE DRAIN MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO FABRIC ENVELOPE IS REQUIRED ON PERFORATED PIPE. THE GRANULAR BACKFILL SHALL BE GRAVEL AND THE GRADATION SHALL BE CA-16.

GEOTECHNICAL FABRIC SHALL BE NON-WOVEN NEEDLE PUNCHED MATERIAL.

ALL MATERIALS WILL NOT BE MEASURED SEPERATELY, BUT WILL BE INCLUDED IN THE COST PER UNIT FOR TRANSVERSE DRAINS COMPLETE.

SKEW TRANSVERSE DRAIN 20° FORWARD IN DIRECTION OF FLOW.

MODEL: Default
FILE NAME: I:\IDOT\180660 1\Draw\Roadway\CADD_Sheets\D672K47_gpt_Details_06.dgn

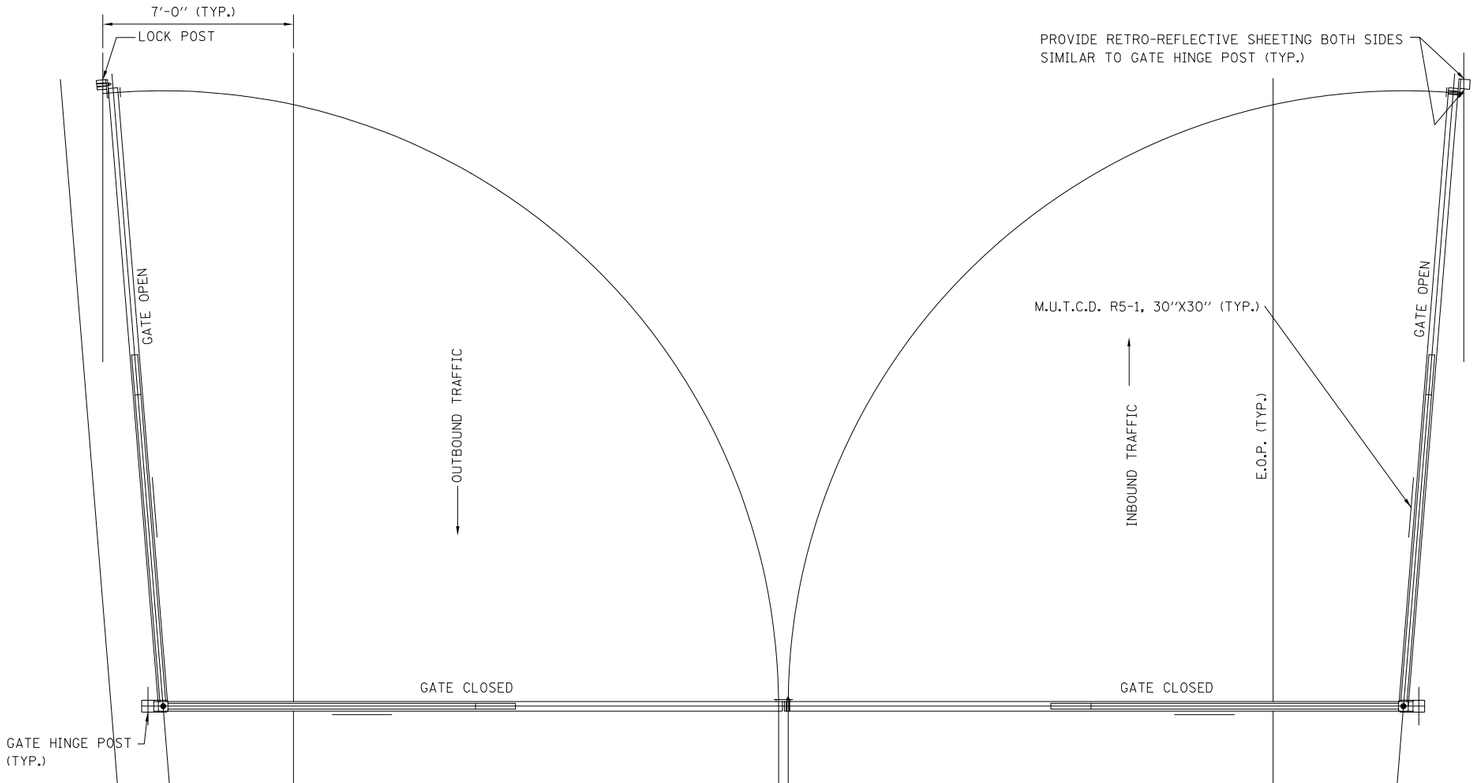
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

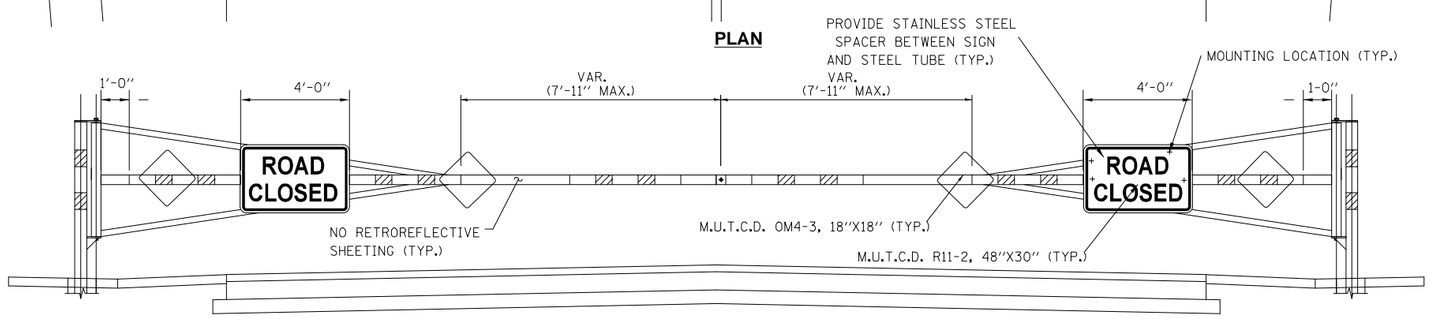
TRANSVERSE DRAINS COMPLETE DETAIL

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

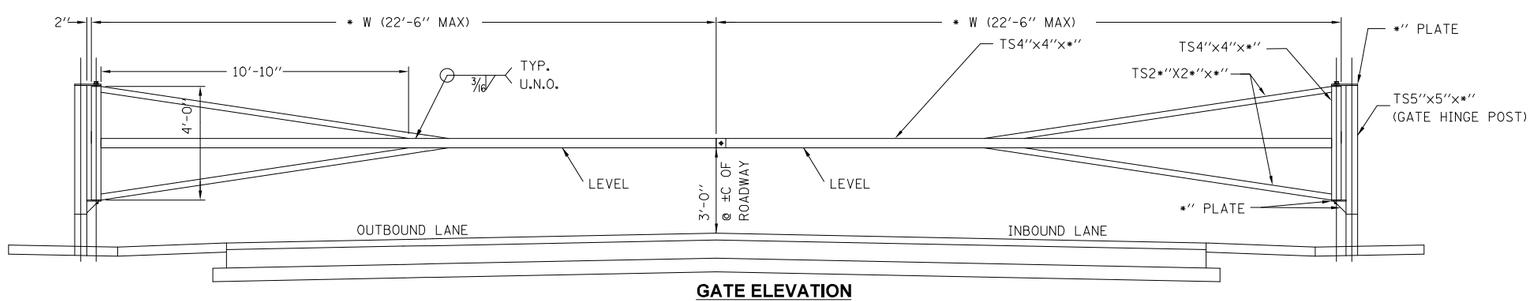


PLAN



RETROREFLECTIVE SHEETING ELEVATION

(FRONT & REAR VIEW)



GATE ELEVATION

(RETROFLECTIVE SHEETING NOT SHOWN FOR CLARITY)

GENERAL NOTES

1. THE ENTRANCE GATE SHALL BE PAINTED WITH ONE PRIMER COAT AND TWO FINISH COATS. THE PRIMER SHALL BE AN ORGANIC, ZINC RICH, RUST INHIBITING PRIMER. THE FINISH COATS SHALL BE A MINERAL SPIRIT REDUCED FINISHED COAT INTENDED FOR EXTERIOR APPLICATIONS.
THE COLOR SHALL MATCH EXISTING FACILITIES. CONTRACTOR SHALL SUBMIT PAINT CHIPS OF FINAL COLOR FOR APPROVAL. ALL EDGES OF HOLES SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLING THE BOLTS.

2. ALL TUBE MEMBERS (TS) SHALL BE COLD FORMED WELDED STRUCTURAL STEEL CONFORMING TO THE LATEST ASTM A500 GRADE B (46 KSI).

3. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST ASTM A36.

4. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70 ELECTRODES.

5. HOLES IN THE STRUCTURAL STEEL AND TUBE MEMBERS SHALL BE 1/16 IN. MAXIMUM LARGER THAN THE BOLT, UNLESS NOTED OTHERWISE.

6. HINGE PIN HOLES IN THE STRUCTURAL STEEL AND TUBE MEMBERS SHALL BE 1/32 IN. MAXUMUM LARGER THAN THE PIN, UNLESS NOTED OTHERWISE.

7. GATE LOCK POST SHALL BE ERECTED AFTER THE GATE IN ORDER TO ACCOUNT FOR THE DEAD LOAD DEFLECTION OF THE GATE AND TO CORRECTLY LOCATE THE HOLE AND PIN ALIGNMENT.

8. ALL HORIZONTAL AND DIAGONAL MEMBERS SHALL HAVE A 1/2" DIAMETER VENT HOLE DRILLED UNDERNEATH THE MEMBERS AT EACH END.

9. ALL EXPOSED CORNERS OF PLATES SHALL HAVE A 1/4" RADIUS UNLESS NOTED OTHERWISE.

10. ALL CONCRETE SHALL BE CLASS SI AND SHALL HAVE A MINIMUM 14-DAY COMPRESSIVE STRENGTH OF 3500 PSI. ALL FOUNDATIONS SHALL BE DRILLED,INSPECTED, AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE. THE SOIL WAS ASSUMED TO BE A BLACK SLAG OR A LOOSE SAND AND GRAVEL.

11. CONTRACTOR SHALL PROVIDE A 7-YEAR WARRANTY ON THE RETROREFLECTIVE SHEETING.

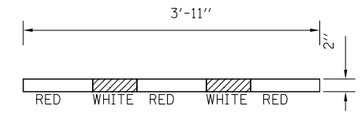
12. CONTRACTOR SHALL LAYOUT LOCK POSTS AND HINGE POSTS FOR LOCATION APPROVAL BY ENGINEER PRIOR TO FABRICATION.

13. ALL EXPOSED EDGES SHALL BE GROUND SMOOTH.

14. ALL STEEL SHALL BE BLAST CLEANED PER SSPC-SP6 COMMERCIAL BLAST CLEANING PRIOR TO APPLICATION OF PRIMER COAT.

15. SIGNS SHALL BE THRU-BOLTED TO THE GATE AT THE LOCATIONS INDICATED ON THE PLAN WITH STAINLESS STEEL BOLTS. THE HOLES FOR THE BOLTS SHALL BE DRILLED.

W=WIDTH OF DOUBLE GATE
1/2W = WIDTH OF SINGLE GATE
(NOTE: WITH SINGLE GATE AN ADDITIONAL LOCK POST WILL BE REQUIRED TO KEEP GATE CLOSED)



TYPICAL RETROREFLECTIVE SHEETING DETAIL

MODEL: Default
FILE NAME: I:\IDOT\180660\Draw\Roadway\CA00_Sheets\D672K47_gnt_Decalls_Special.dgn

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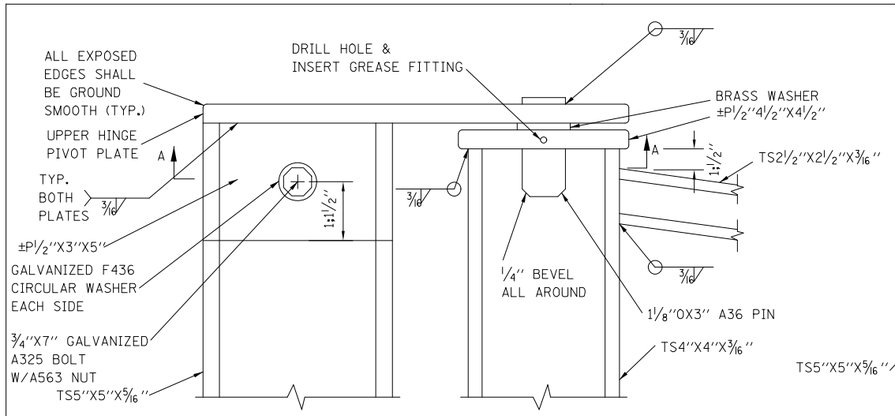
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

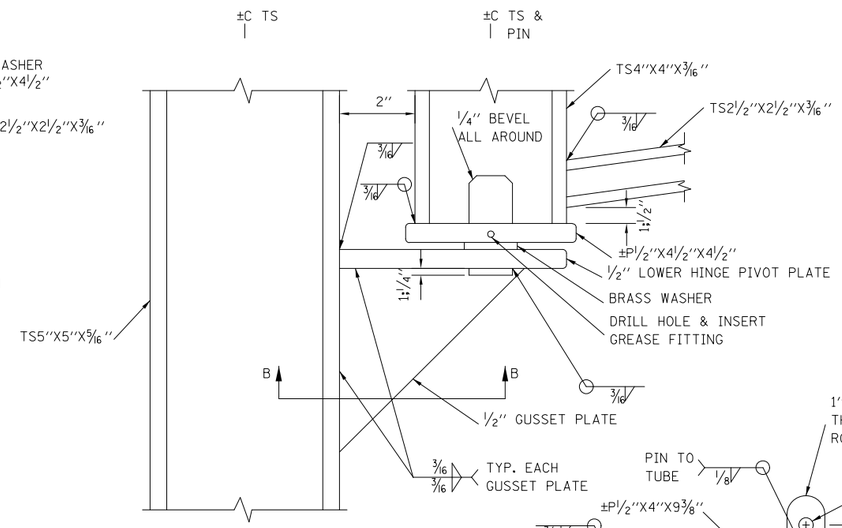
ACCESS GATE DETAILS 1

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

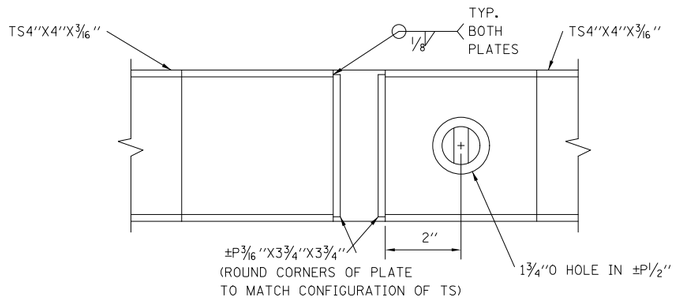
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* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



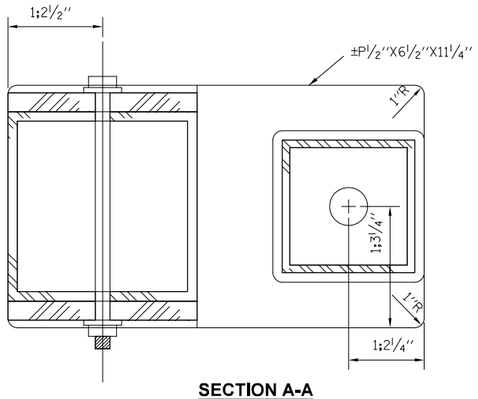
UPPER HINGE DETAIL
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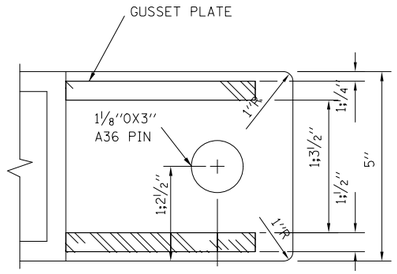
LOWER HINGE DETAIL
NTS



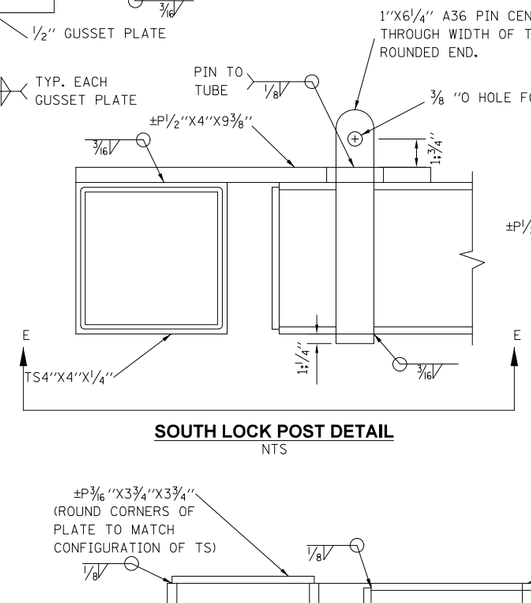
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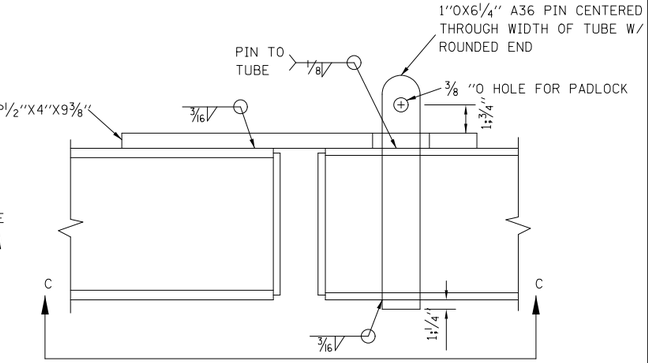
SECTION A-A
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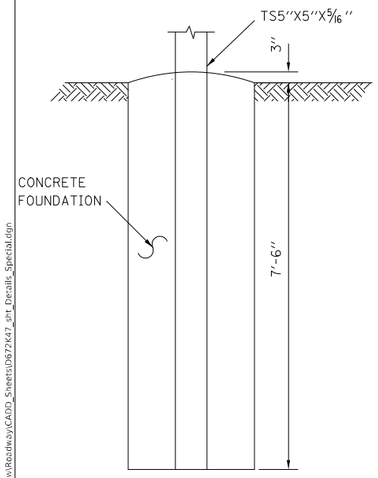
SECTION B-B
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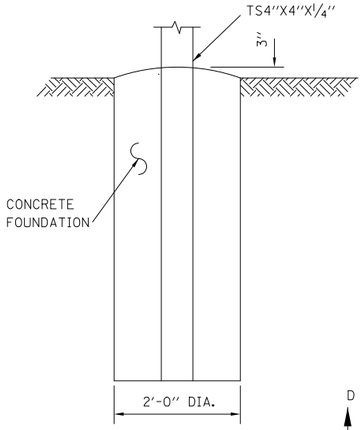
SOUTH LOCK POST DETAIL
NTS



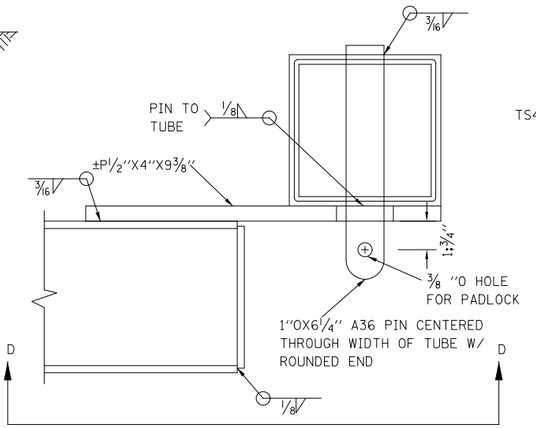
GATE-TO-GATE CONNECTION
NTS



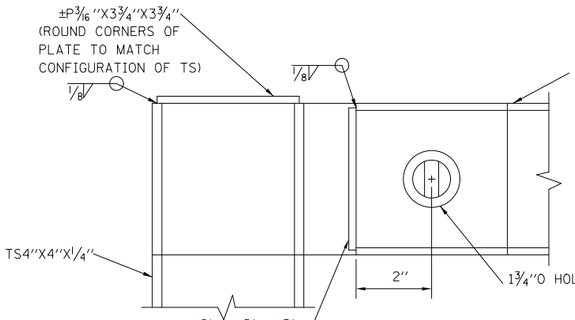
GATE POST FOUNDATION DETAIL
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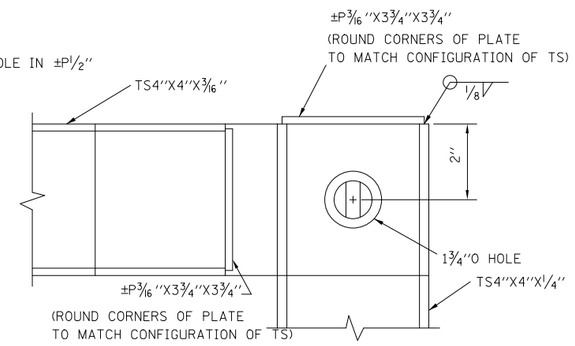
LOCK POST FOUNDATION DETAIL
NTS



NORTH LOCK POST DETAIL
NTS



SECTION E-E
NTS



SECTION D-D
NTS

MODEL: Default
FILE NAME: I:\IDOT\1806601\Drawn\Roadway\CADD_Sheets\D672K47_sht_Details_Special.dgn

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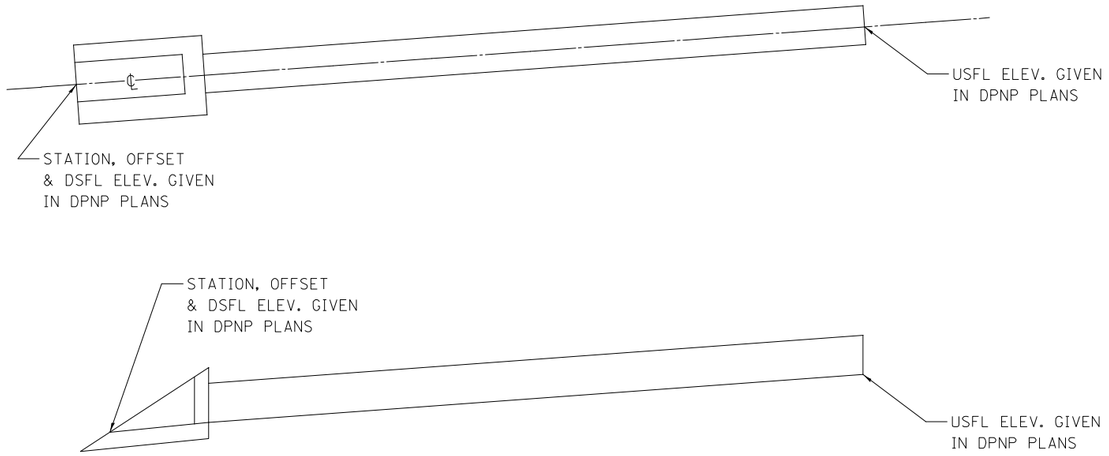
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PLOT DATE = 5/19/2023 (4:43:22 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

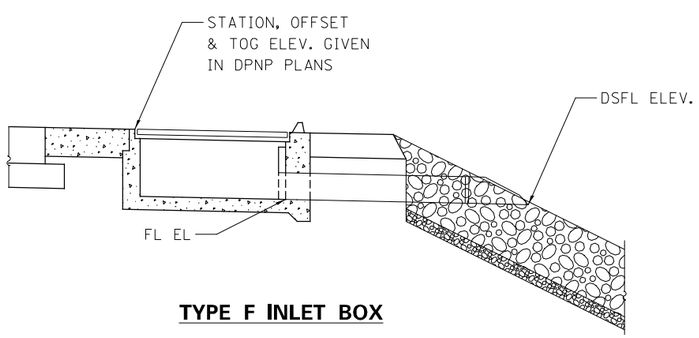
ACCESS GATE DETAILS 2

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

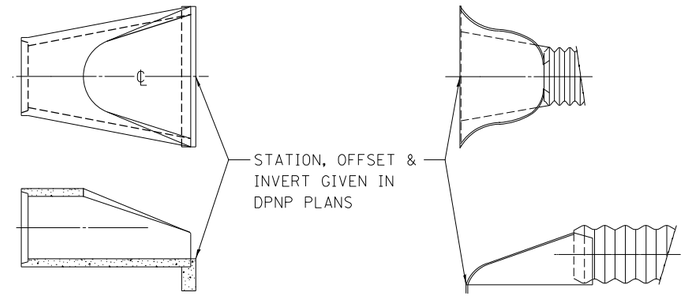
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	366
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



TRANSVERSE PIPE DRAINS



TYPE F INLET BOX



CONC. END SECTIONS

METAL END SECTIONS

MODEL: Default
FILE NAME: I:\IDOT\180660\Draw\Roadway\CADD_Sheets\D672K47_dht_Details_Special.dgn

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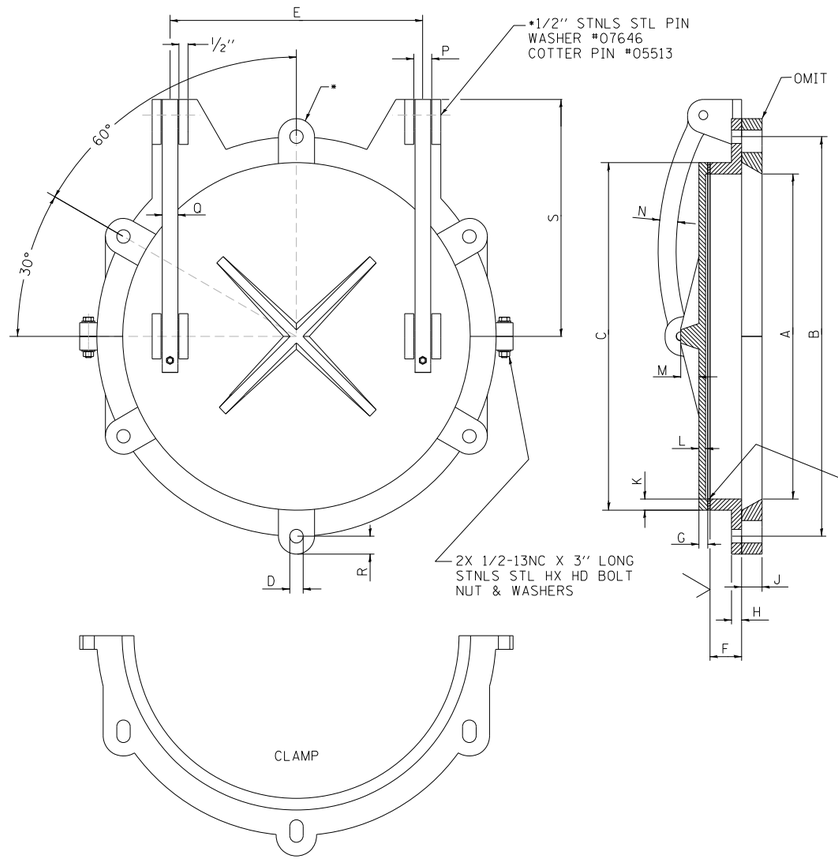
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PLOT DATE = 5/19/2023 (4:43:22 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
DRAINAGE STRUCTURE REFERENCE POINTS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	367
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
6"	11"	7"	3/4"	4 1/2"	1 1/4"	1/2"	1/2"	1 1/8"	7/16"	3/8"	–	1"	1 1/4"	1"	–	7 1/2"
8"	11"	9 1/4"	3/4"	6 1/2"	1 1/2"	1/2"	1/2"	1 1/8"	1/2"	3/8"	–	1"	1 1/4"	7/8"	–	7 1/2"
10"	13 1/2"	11 1/4"	3/4"	8 3/4"	1 1/2"	3/8"	1/2"	1 1/8"	5/8"	3/8"	1"	1"	1 1/4"	1"	–	–
12"	13 3/4"	13 1/4"	3/4"	10 5/8"	1 9/16"	1/2"	1/2"	1 1/8"	5/8"	5/16"	5/8"	1 1/4"	1 1/4"	1 1/4"	–	10"
15"	19"	16 1/4"	3/4"	13 1/2"	1 1/2"	7/16"	5/8"	1 1/8"	5/8"	5/16"	1"	1 3/16"	1 1/4"	1 1/4"	–	–
18"	22 1/8"	19 1/4"	7/8"	16 3/4"	1 3/4"	1/2"	1/2"	1"	5/8"	1/2"	1 1/2"	1 7/16"	1 1/4"	1 1/4"	–	13 1/8"
20"	25 1/8"	22 1/4"	7/8"	19 3/4"	1 5/8"	5/8"	1/2"	1 1/8"	9/16"	3/8"	1 1/2"	1 3/8"	1 1/4"	1 1/4"	–	–
21"	25 1/8"	22 1/4"	7/8"	19 3/4"	1 5/8"	5/8"	1/2"	1 1/8"	9/16"	3/8"	1 1/2"	1 3/8"	1 1/4"	1 1/4"	–	14 3/4"
27"	31 1/4"	28 1/4"	1"	25"	1 3/4"	5/8"	1/2"	1 1/8"	1/2"	1/2"	2"	1 3/8"	1 1/4"	1 5/16"	–	17 5/8"
30"	34 1/4"	31 1/4"	1"	28 1/2"	1 3/4"	7/8"	1/2"	1 1/4"	7/8"	5/8"	1 1/4"	1 1/2"	1 1/4"	1 1/4"	1"	19 3/8"
36"	41 1/2"	37 1/2"	1"	34 7/8"	1 3/4"	3/4"	3/4"	1 1/4"	3/4"	5/8"	2 1/4"	1 1/2"	1 3/8"	1 1/8"	1"	22 7/8"
42"	47 1/2"	43 1/2"	1"	40 7/8"	1 3/4"	1"	3/4"	1 1/4"	3/4"	5/8"	2 1/4"	1 1/2"	1 3/8"	1 3/8"	1"	–
48"	54"	49 1/2"	1 1/8"	47 1/2"	2"	1"	3/4"	1 1/4"	3/4"	5/8"	2 1/4"	1 1/2"	1 3/8"	1 3/8"	–	–

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH. VERIFY ALL DIMENSIONS WITH MANUFACTURER.
MATERIAL: FRAME, LID, CLAMPS, ARMS - CAST GRAY IRON ASTM A-48, CLASS 35B.
27" ARM - CAST DUCTILE IRON, ASTM A-536, 55+KSI YIELD.
FINISH: BLACK EPOXY PAINT.

MODEL: Default
FILE NAME: I:\IDOT\1806601\Draw\Roadway\CADD_Sheets\0672K47_sht_Details_Special.dgn

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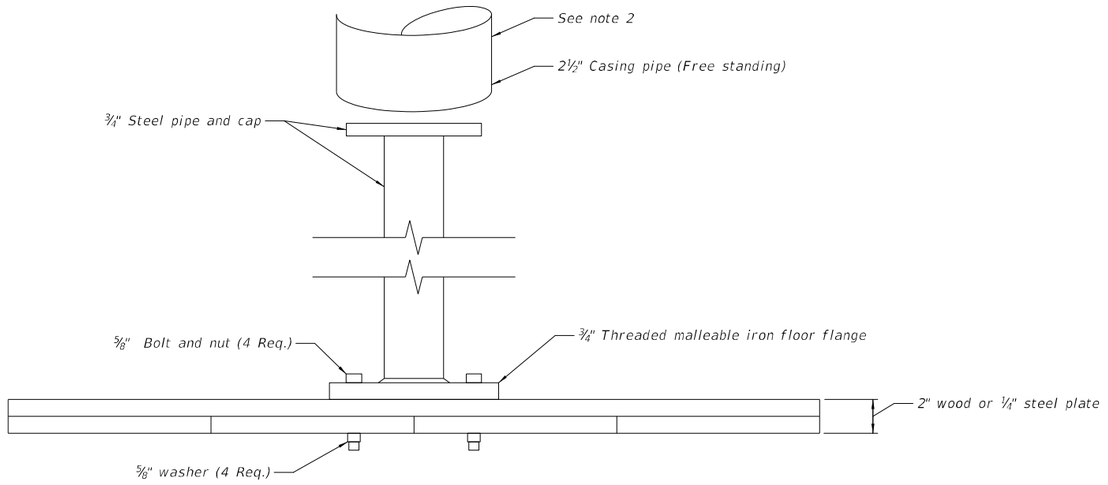
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	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/19/2023 (4:43:23 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

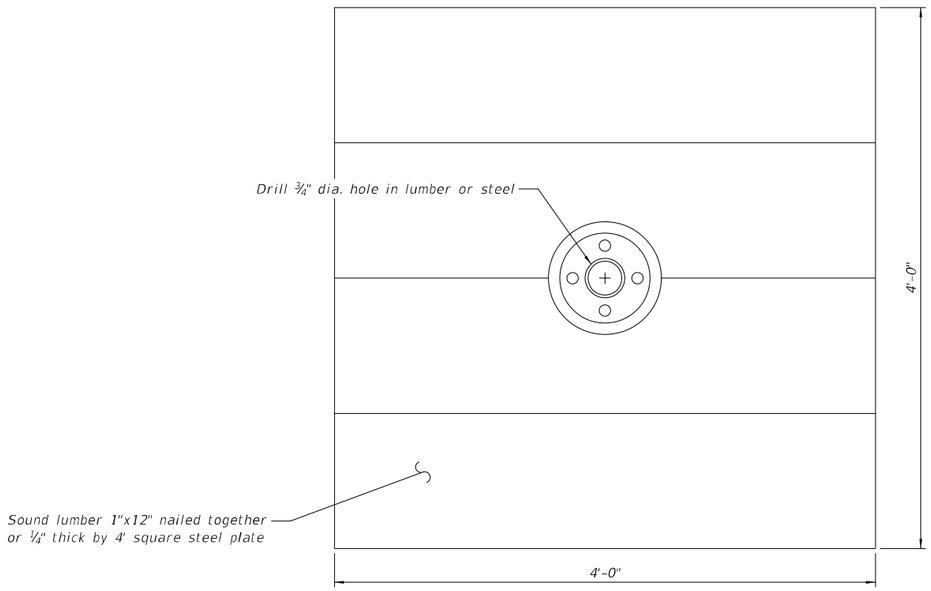
MISCELLANEOUS DETAILS
FLAP GATE

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	368
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



ELEVATION



PLAN

NOTES:

1. Settlement platform shall be in accordance with the applicable portions of Article 204.06 of the Standard Specifications.
2. Do not install casing pipe until after one section of ¾" steel pipe has been covered with earth. The casing pipe should not rest on platform.

MODEL: Default
FILE NAME: L:\IDOT\180660\1\Draw\Roadway\CADD_Sheets\D672K47_SPF_Details_Special.dgn

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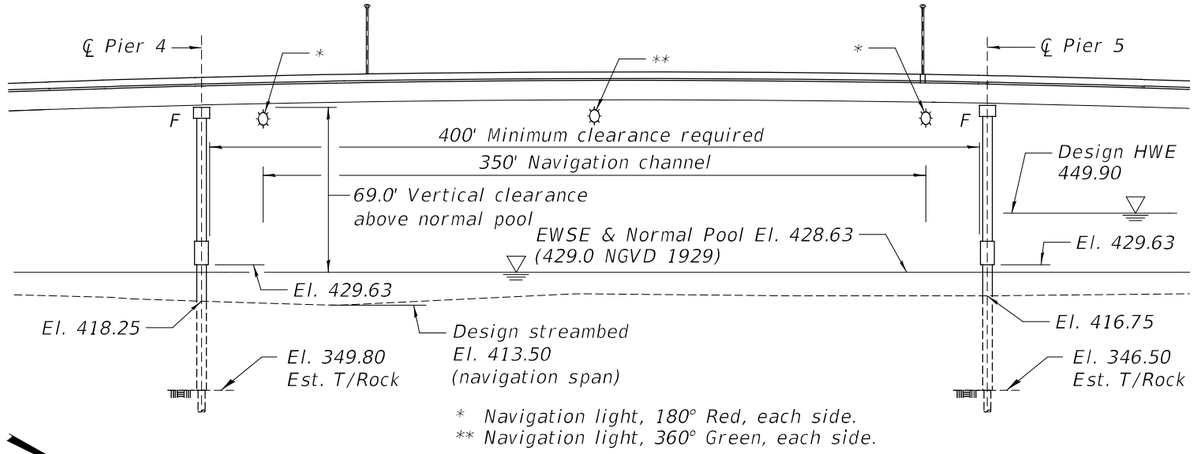
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

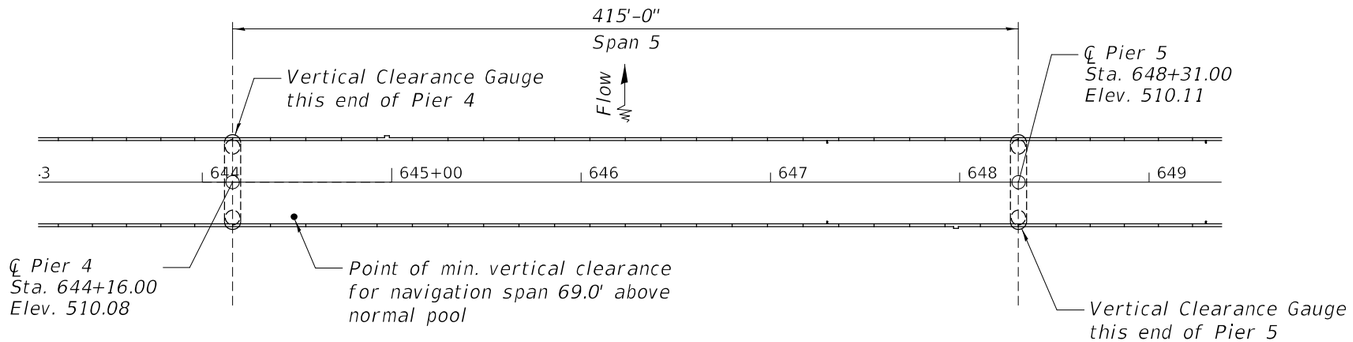
MISCELLANEOUS DETAILS
SETTLEMENT PLATFORM

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

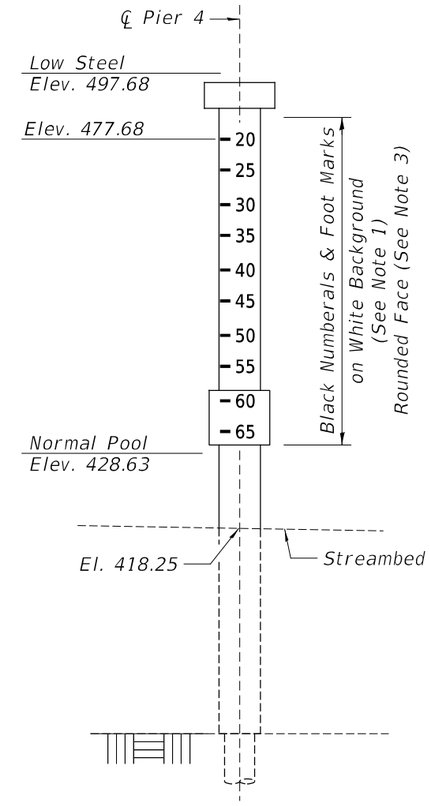
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	369
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



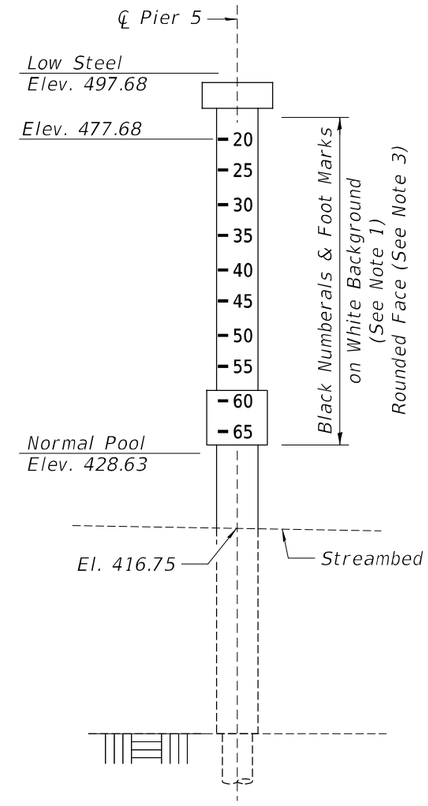
ELEVATION



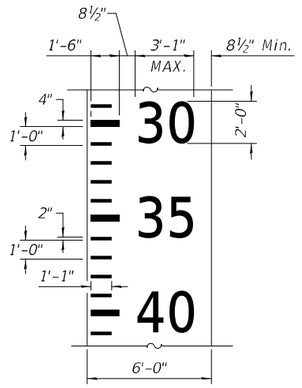
PLAN



VERTICAL CLEARANCE GAUGE
AT PIER 4
(SOUTH FACE OF PIER 4)



VERTICAL CLEARANCE GAUGE
AT Pier 5
(NORTH FACE OF Pier 5)



VERTICAL CLEARANCE GAUGE DETAIL
N.T.S.

BRIDGE CLEARANCE GAUGE NOTES

1. Numerals shall be Series D 2000, 24" and spacing conform to the requirements specified in the "Standard Alphabets for Highway Signs" published by U.S. Department of Transporation.
2. White background, black numerals and black footmarks shall be painted directly on pier faces. See Special Provisions for "Vertical Clearance Gauge."
3. Dimensions and spacing of text shown are projected dimensions in the horizontal plane of pier face and shall be increased on the rounded face of the pier.
4. Manufactured numerals and background materials of the required sizes may be used if approved by the Engineer.
5. See Special Provisions for more information.

MODEL: Default
FILE NAME: I:\IDOT\1806601\Drawn\Roadway\CADD_Sheets\0672K47_gnt_Details Miscellaneous.dgn

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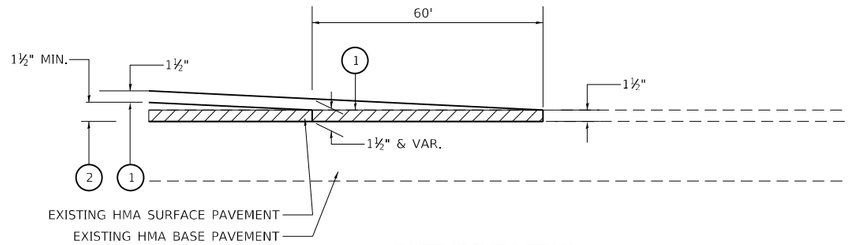
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANOUS DETAILS
VERTICAL CLEARANCE GAUGE DETAILS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	370
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL

LEGEND

1	PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1½" & VARIABLE
2	PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 1½" & VARIABLE
▨	PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

MODEL: Default
FILE NAME: V:\4527 - Beardstown Bridge - PTB 188-024 (CMT)\CADD\CADD Sheets\D672K47_sht_Special Details1.dgn

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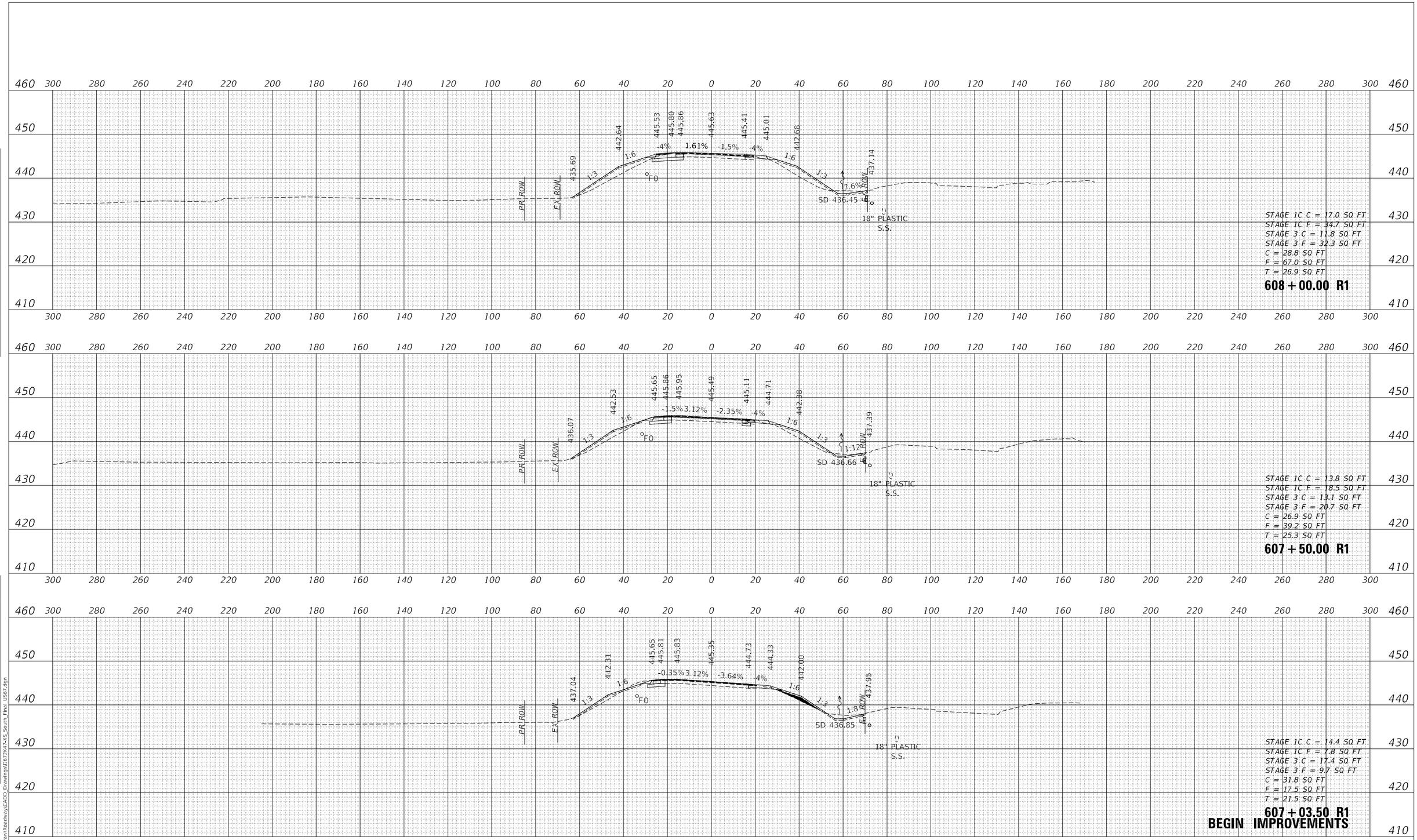
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PLOT DATE = 5/23/2023	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAIL

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1.87C)R	*	455	371
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



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

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

MODEL: US67 Final XS Sheeted
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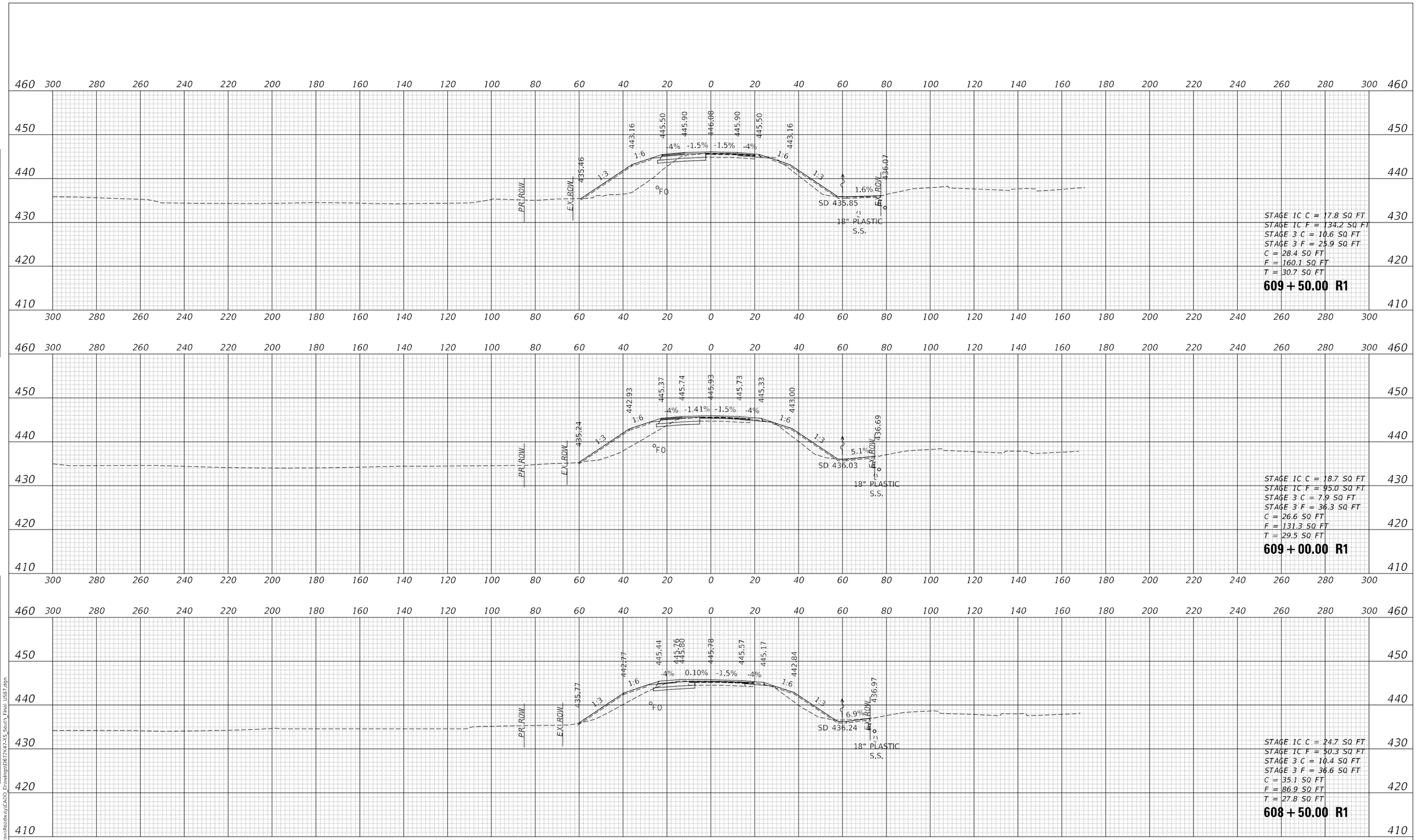
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PLOT DATE = 5/22/2023 (3:28:17 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 1 OF 44 SHEETS | STA. 607+03.50 R1 TO STA. 608+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	372
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



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

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MODEL: US67 Final XS Sheeted
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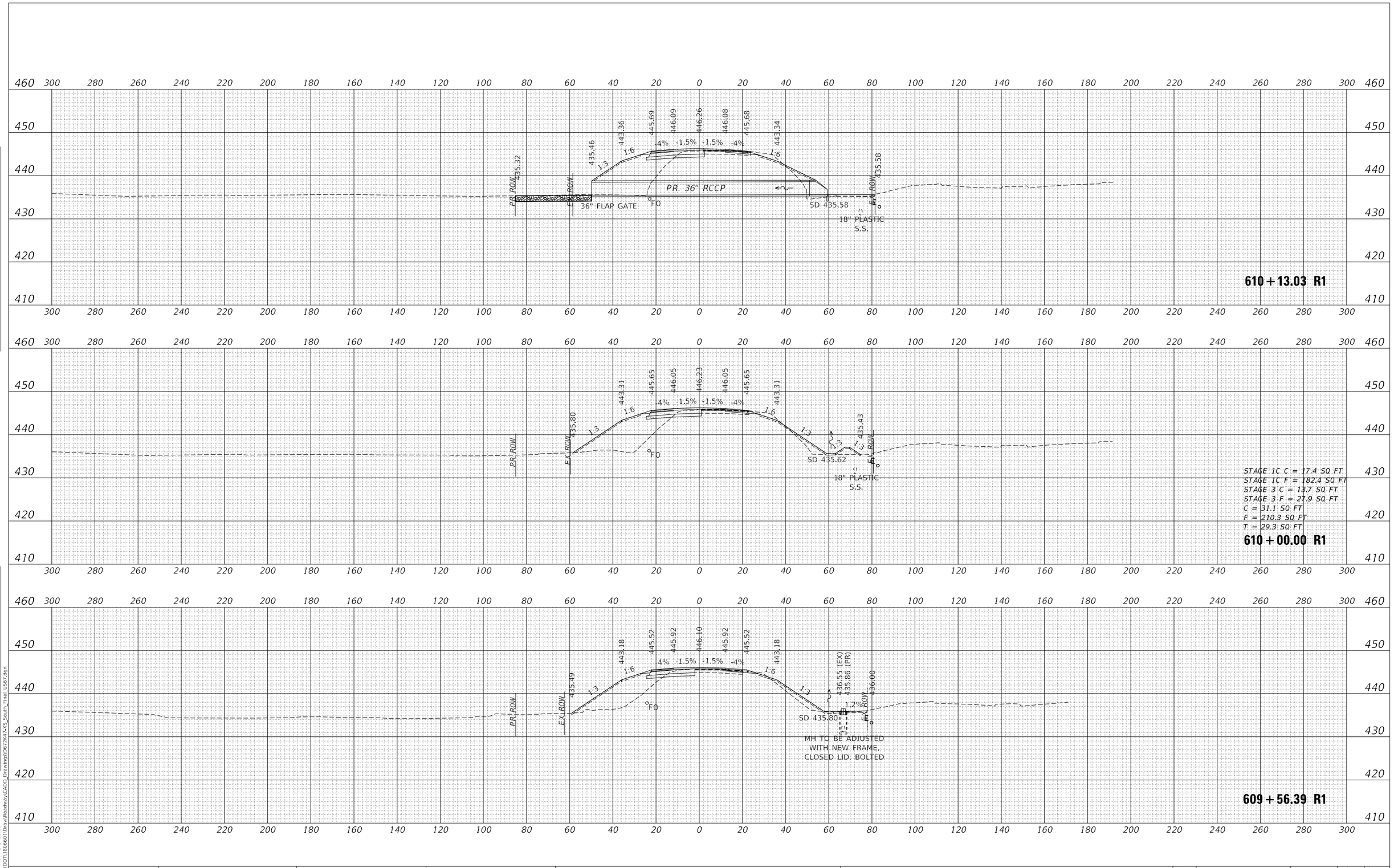
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PLOT DATE = 5/22/2023 (3:28:19 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 2 OF 44 SHEETS | STA. 608+50.00 R1 TO STA. 609+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	373
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



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

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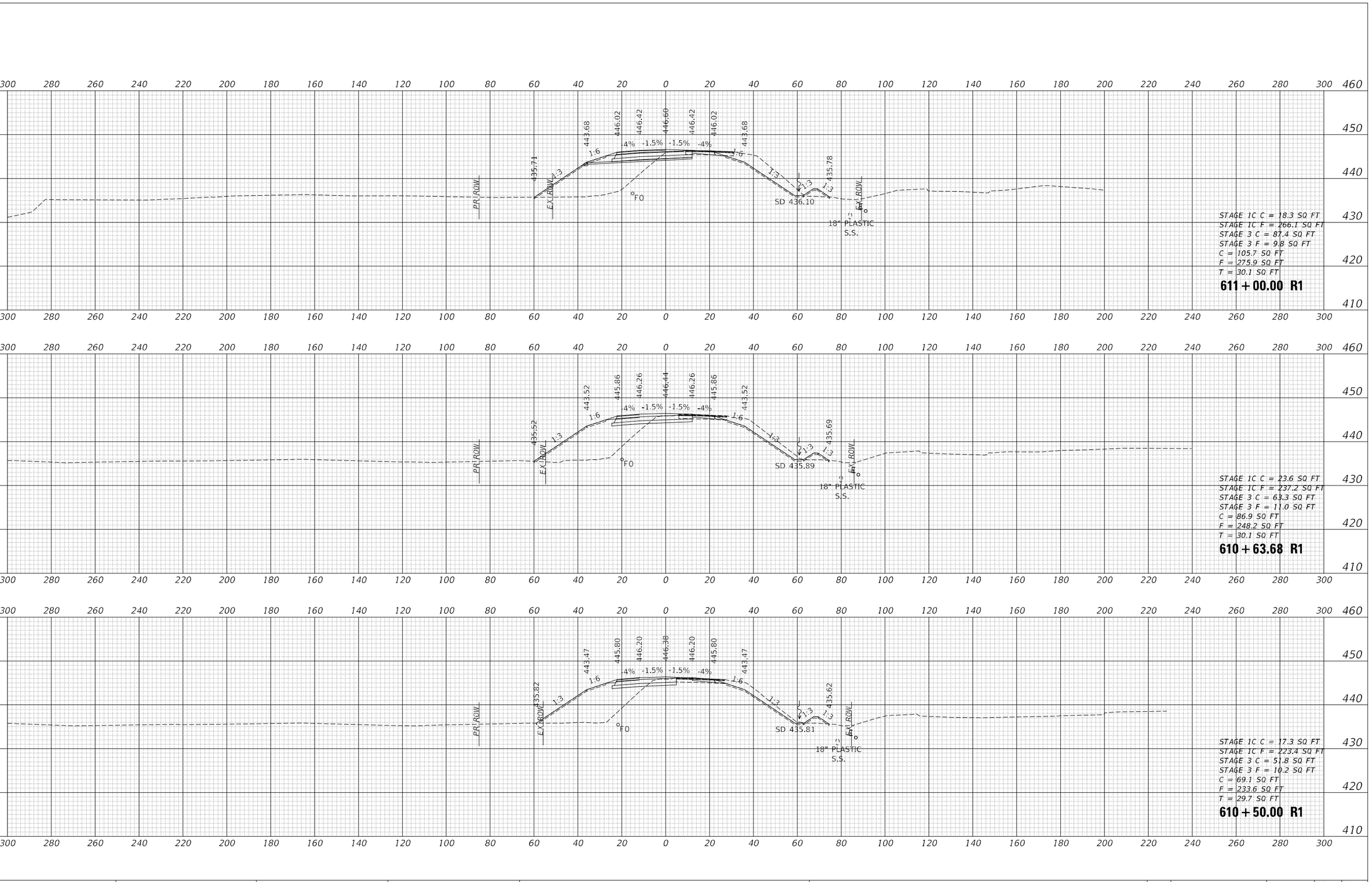
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PLOT DATE = 5/22/2023 (3:28:21 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 3 OF 44 SHEETS
STA. 609+56.39 R1 TO STA. 610+13.03 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	374
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



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

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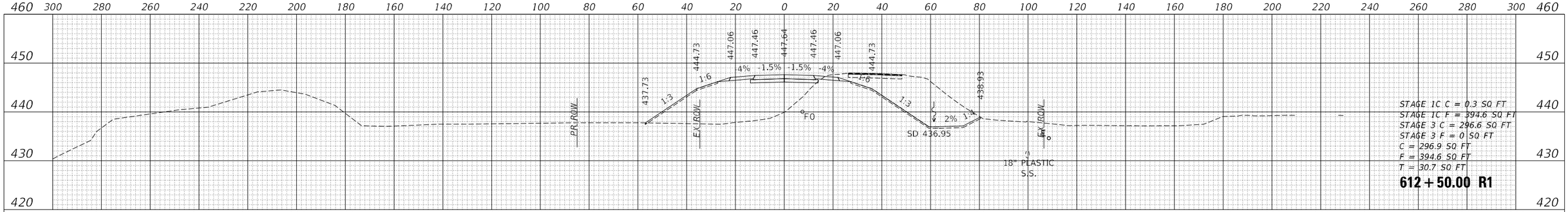
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PLOT DATE = 5/22/2023 (3:28:22 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

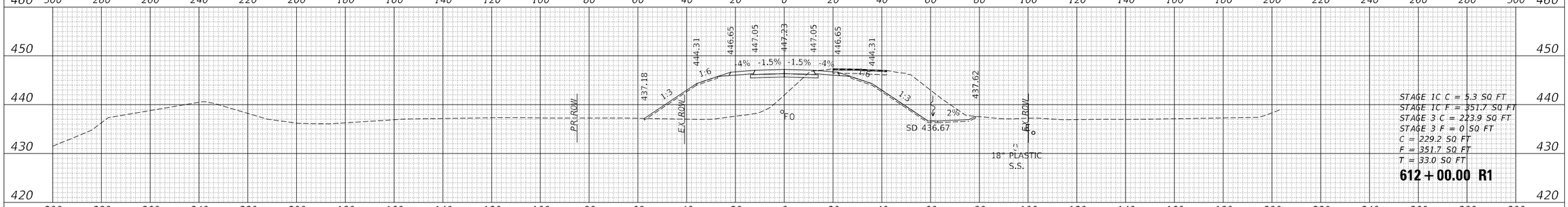
SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 4 OF 44 SHEETS
STA. 610+50.00 R1 TO STA. 611+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	375
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



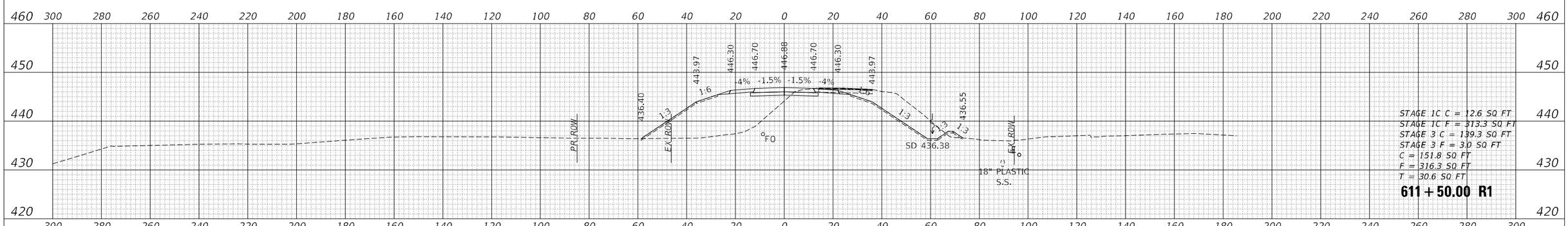
STAGE 1C C = 0.3 SQ FT
STAGE 1C F = 394.6 SQ FT
STAGE 3 C = 296.6 SQ FT
STAGE 3 F = 0 SQ FT
C = 296.9 SQ FT
F = 394.6 SQ FT
T = 30.7 SQ FT

612 + 50.00 R1



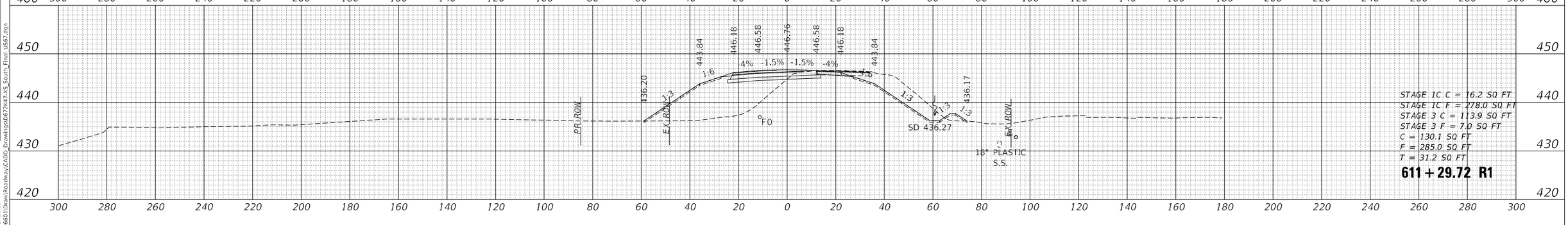
STAGE 1C C = 5.3 SQ FT
STAGE 1C F = 351.7 SQ FT
STAGE 3 C = 223.9 SQ FT
STAGE 3 F = 0 SQ FT
C = 229.2 SQ FT
F = 351.7 SQ FT
T = 33.0 SQ FT

612 + 00.00 R1



STAGE 1C C = 12.6 SQ FT
STAGE 1C F = 313.3 SQ FT
STAGE 3 C = 139.3 SQ FT
STAGE 3 F = 3.0 SQ FT
C = 151.8 SQ FT
F = 316.3 SQ FT
T = 30.6 SQ FT

611 + 50.00 R1



STAGE 1C C = 16.2 SQ FT
STAGE 1C F = 278.0 SQ FT
STAGE 3 C = 113.9 SQ FT
STAGE 3 F = 7.0 SQ FT
C = 130.1 SQ FT
F = 285.0 SQ FT
T = 31.2 SQ FT

611 + 29.72 R1

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

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

MODEL: U567 Final XS Sheeted
FILE NAME: I:\IDOT\180660\1\Drawings\Roadway\CADD_Drawings\D672K47-XS_South_Final_U567.dgn

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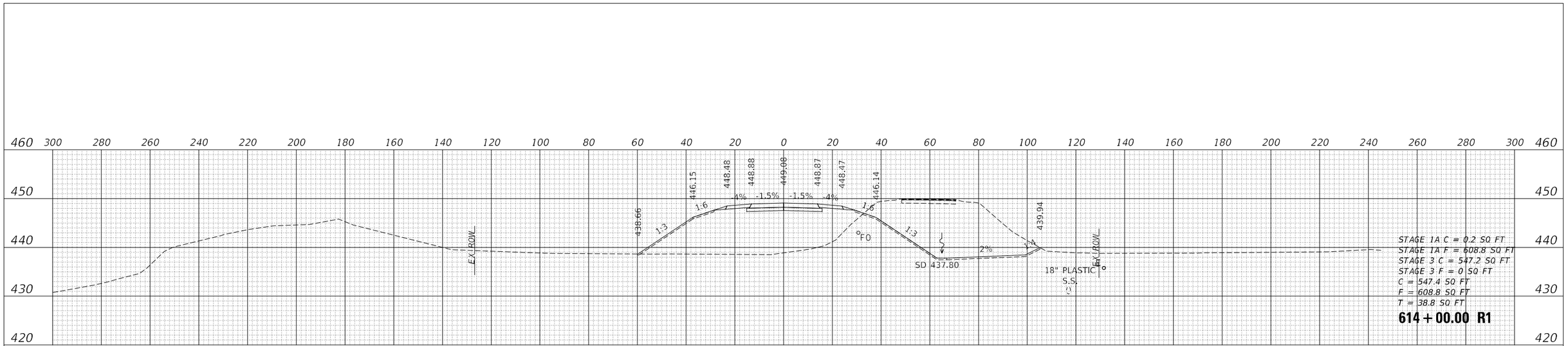
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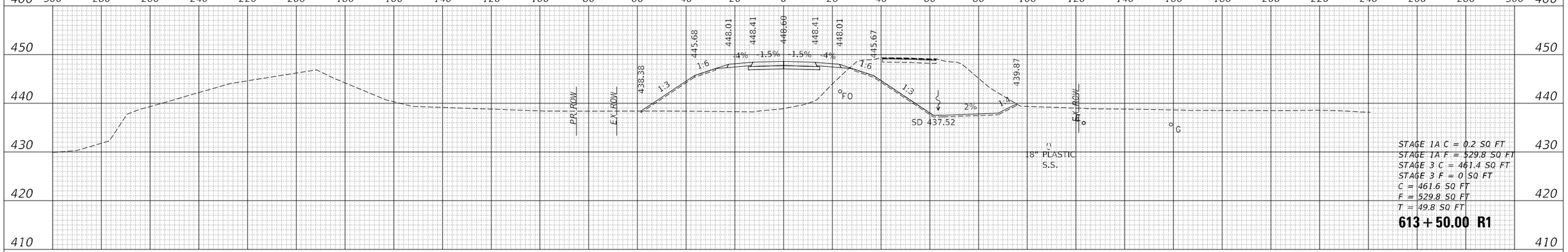
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

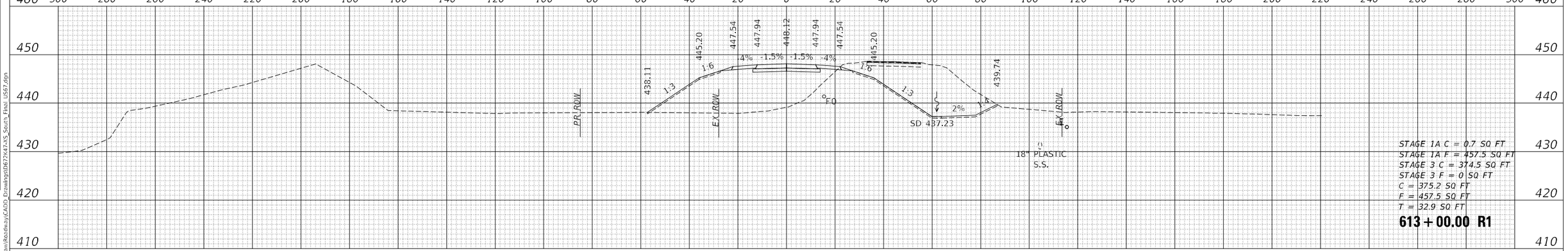
CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 5 OF 44 SHEETS
STA. 611+29.72 R1 TO STA. 612+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	376
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			







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

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

MODEL: IJ567 Final XS Sweeted
FILE NAME: I:\IDOT\18066010\Drawn\Roadway\CADD Drawings\D672K47-XS Souts_Final IJ567.dgn

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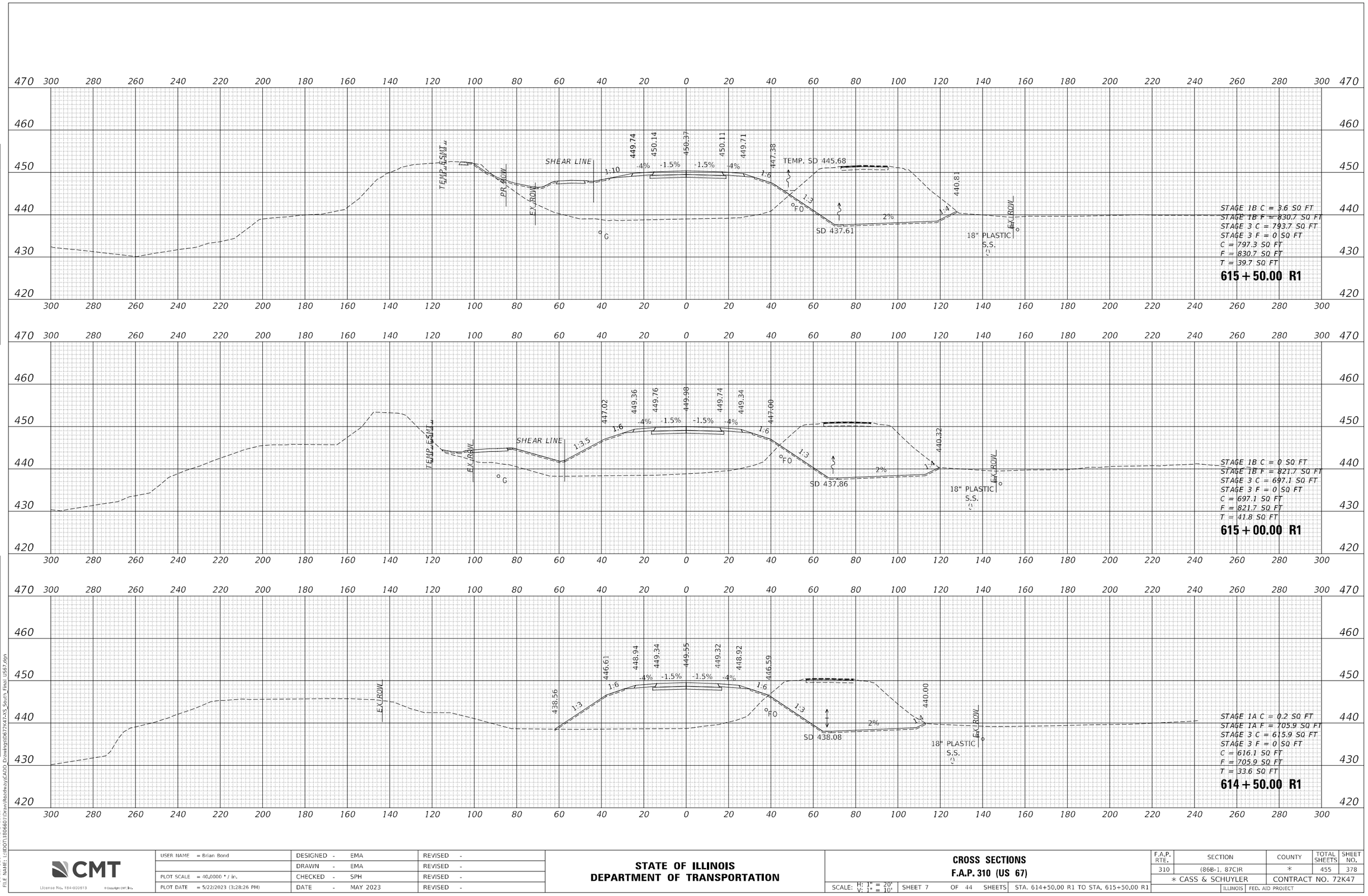
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PLOT DATE = 5/22/2023 (3:28:24 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 6 OF 44 SHEETS
STA. 613+00.00 R1 TO STA. 614+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	377
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: US67 Final XS Sheeted
FILE NAME: I:\IDOT\186660\1\Drawn\Roadway\CADD Drawings\D627K47-XS_South_Final_US67.dgn

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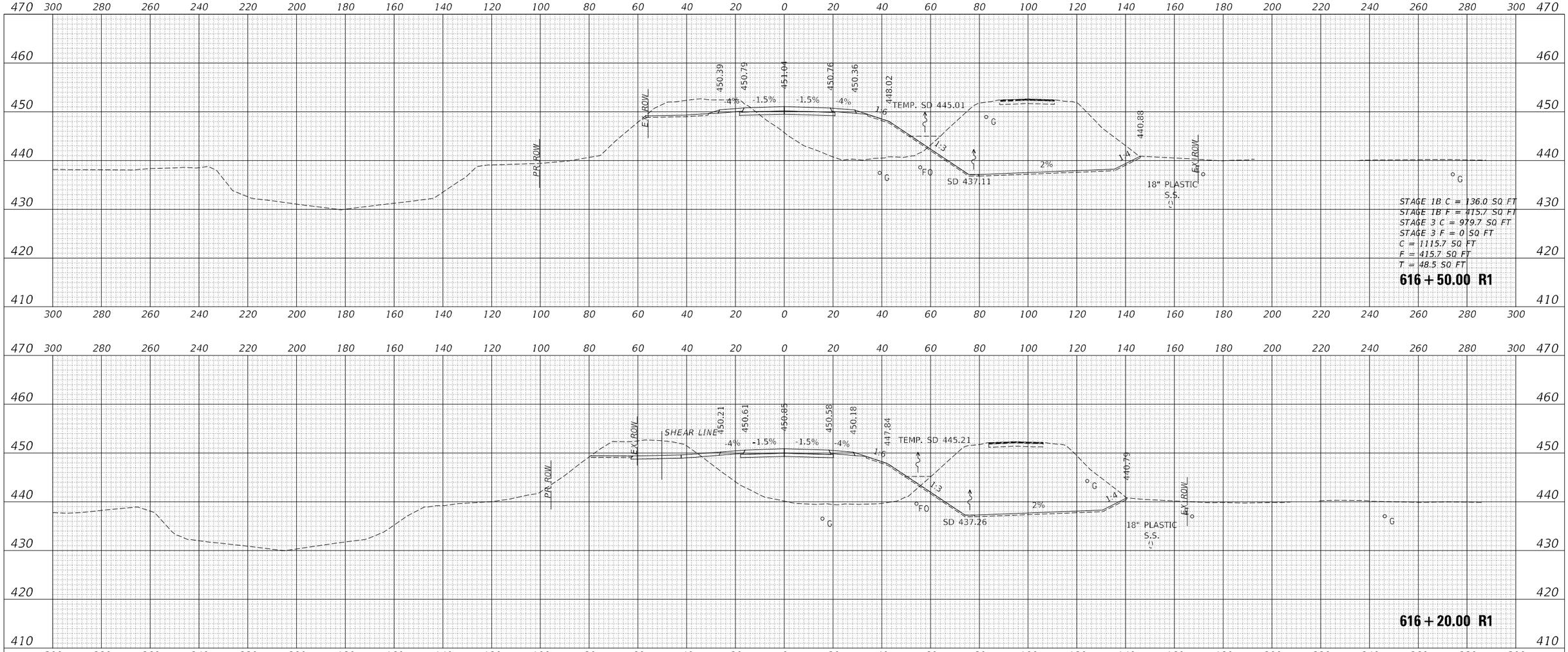
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PLOT DATE = 5/22/2023 (3:28:26 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 7 OF 44 SHEETS | STA. 614+50.00 R1 TO STA. 615+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	378
	* CASS & SCHUYLER		CONTRACT NO. 72K47	
		ILLINOIS	FED. AID PROJECT	



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

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

MODEL: IJ567 Final XS Sweetest
FILE NAME: I:\IDOT\18066001\Drawn\Roadway\CADD Drawings\D672K47-XS Souts Final IJ567.dgn

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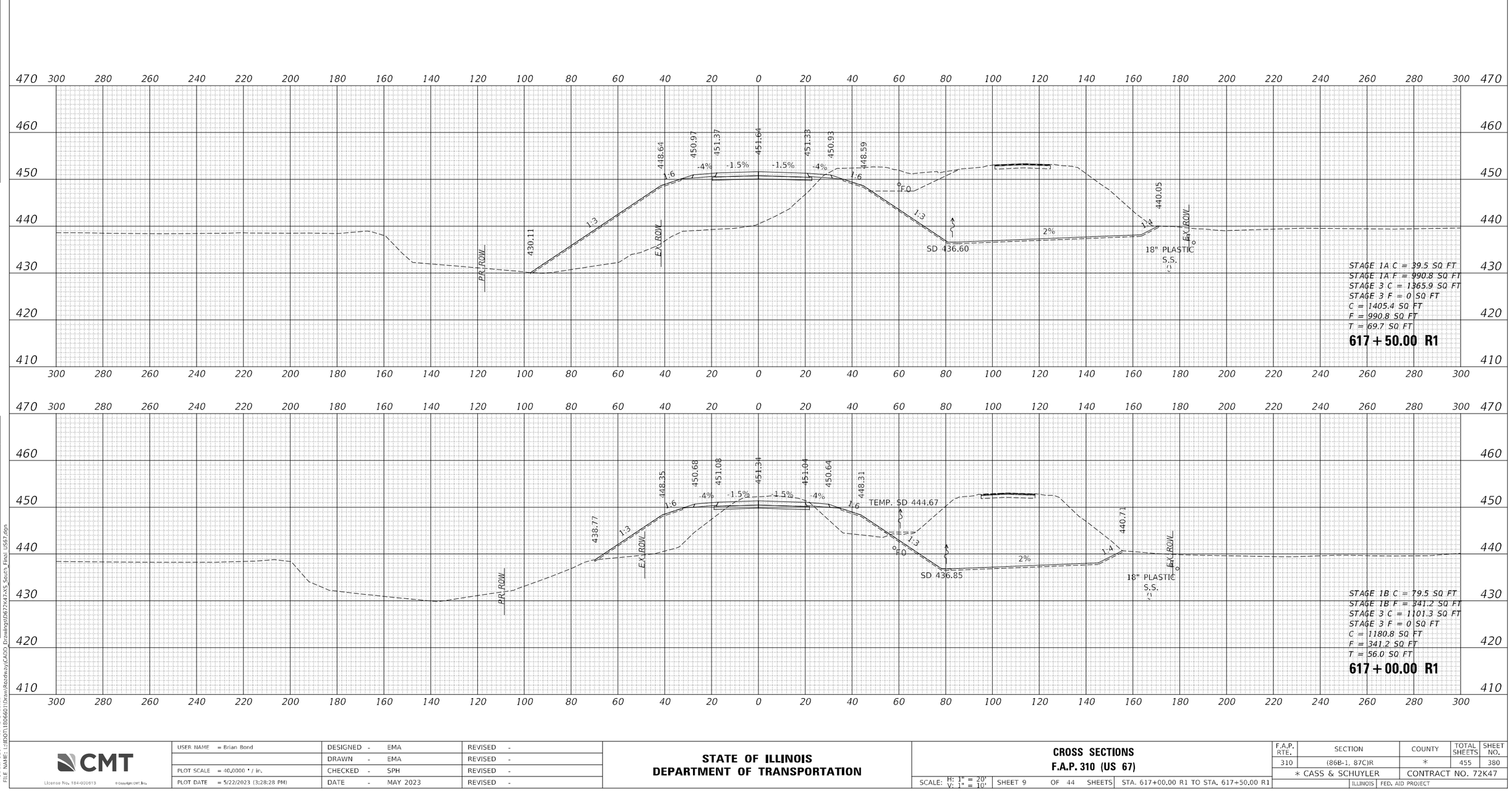
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PLOT DATE = 5/22/2023 (3:28:27 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 8 OF 44 SHEETS
STA. 616+00.00 R1 TO STA. 616+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	379
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



FINAL SURVEY

NO.	NOTE BOOK	PAGE NOS.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

ORIGINAL SURVEY

NO.	NOTE BOOK	PAGE NOS.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

MODEL: US67 Final XS Sheeted
FILE NAME: I:\IDOT\18066011\Draw\Roadway\CADD Drawings\D6727647-XS_South Final US67.dgn

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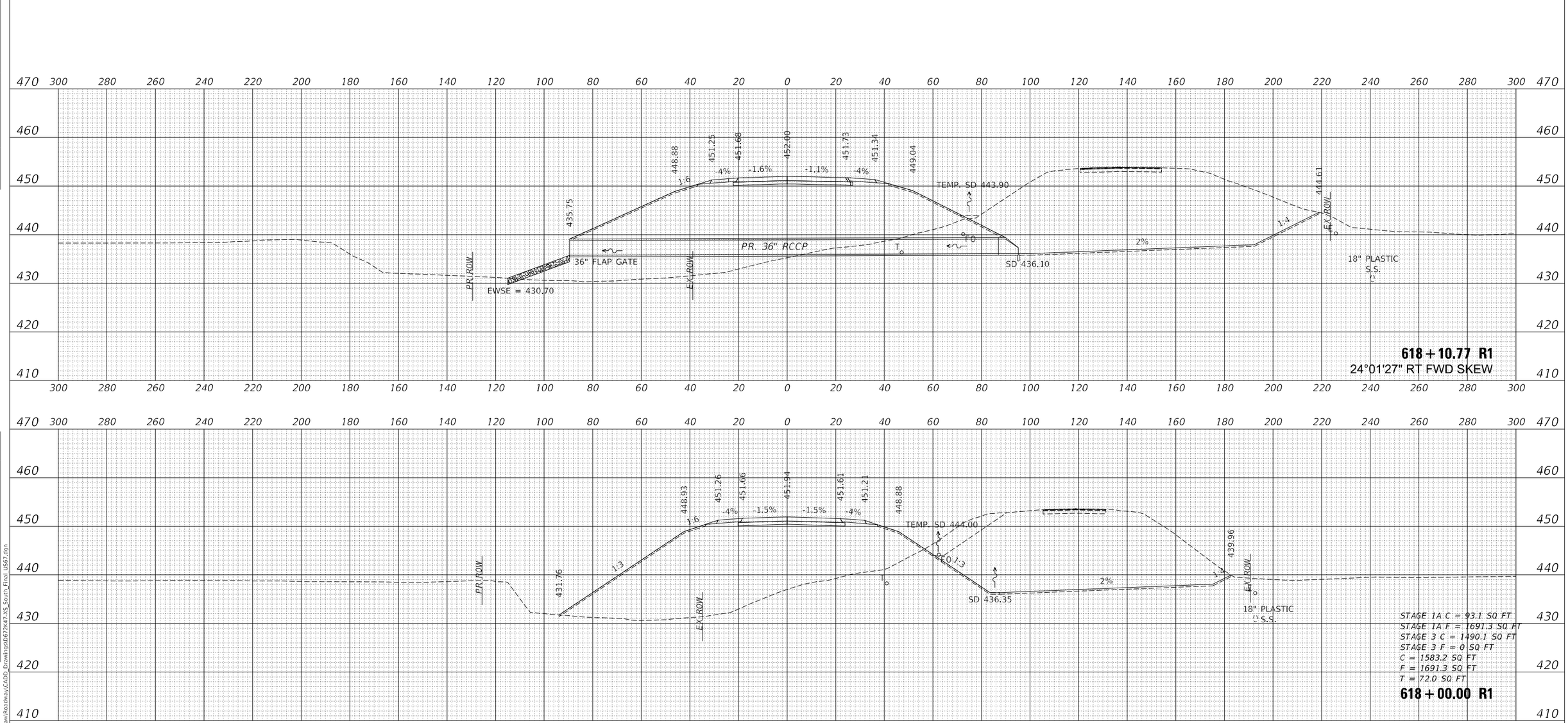
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PLOT DATE = 5/22/2023 (3:28:28 PM)	DATE - MAY 2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 9 OF 44 SHEETS | STA. 617+00.00 R1 TO STA. 617+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	380
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



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

ORIGINAL SURVEY — SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

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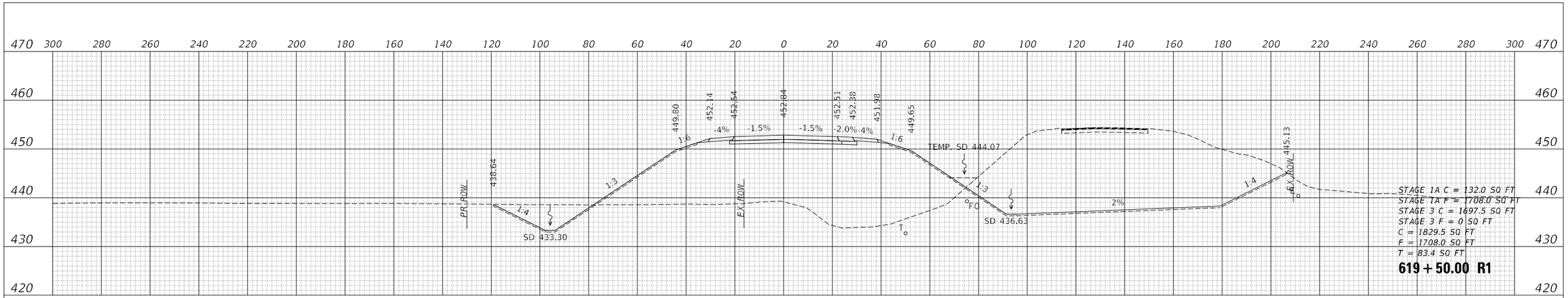
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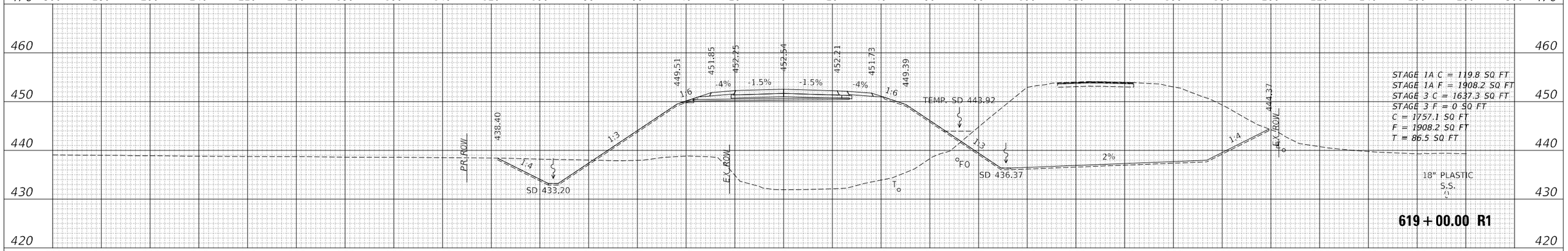
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

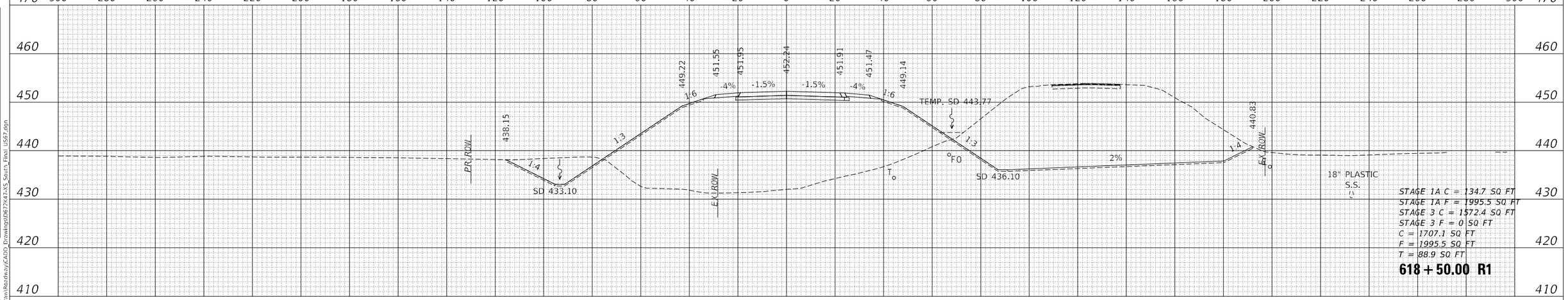
CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 10 OF 44 SHEETS | STA. 618+00.00 R1 TO STA. 618+10.77 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	381
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			







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CROSS SECTIONS
F.A.P. 310 (US 67)

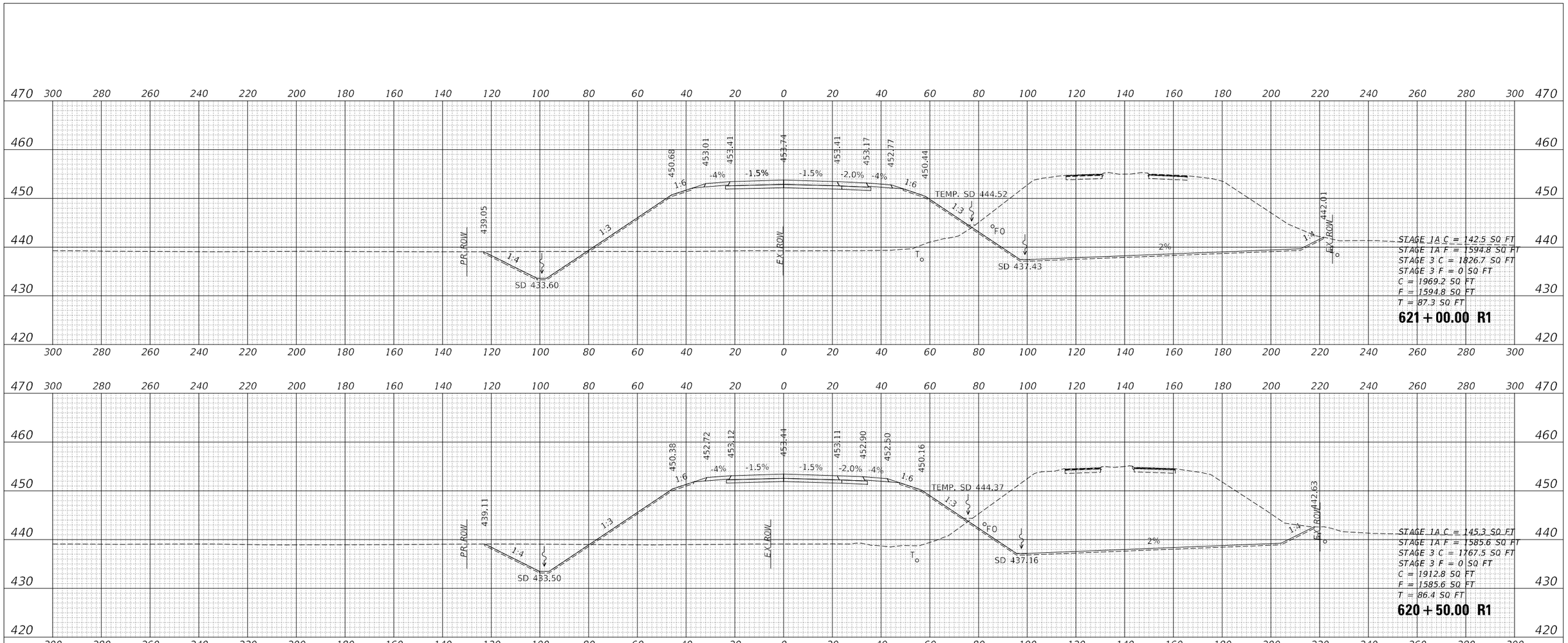
SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 11 OF 44 SHEETS
STA. 618+50.00 R1 TO STA. 619+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	382
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			

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

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

MODEL: US67 Final XS Sheeted
FILE NAME: I:\IDOT\18066011\Draw\Roadway\CADD Drawings\D6727K47-XS_South Final US67.dgn



FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

NODEL: IJ567 Final XS Sweetsd
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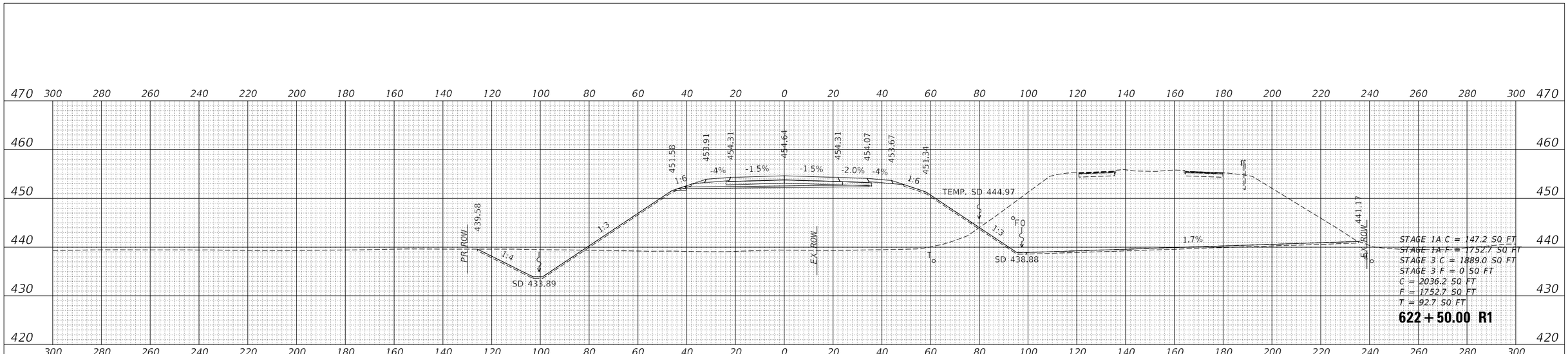
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 12 OF 44 SHEETS
STA. 620+00.00 R1 TO STA. 621+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	383
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
		ILLINOIS FED. AID PROJECT		



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

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

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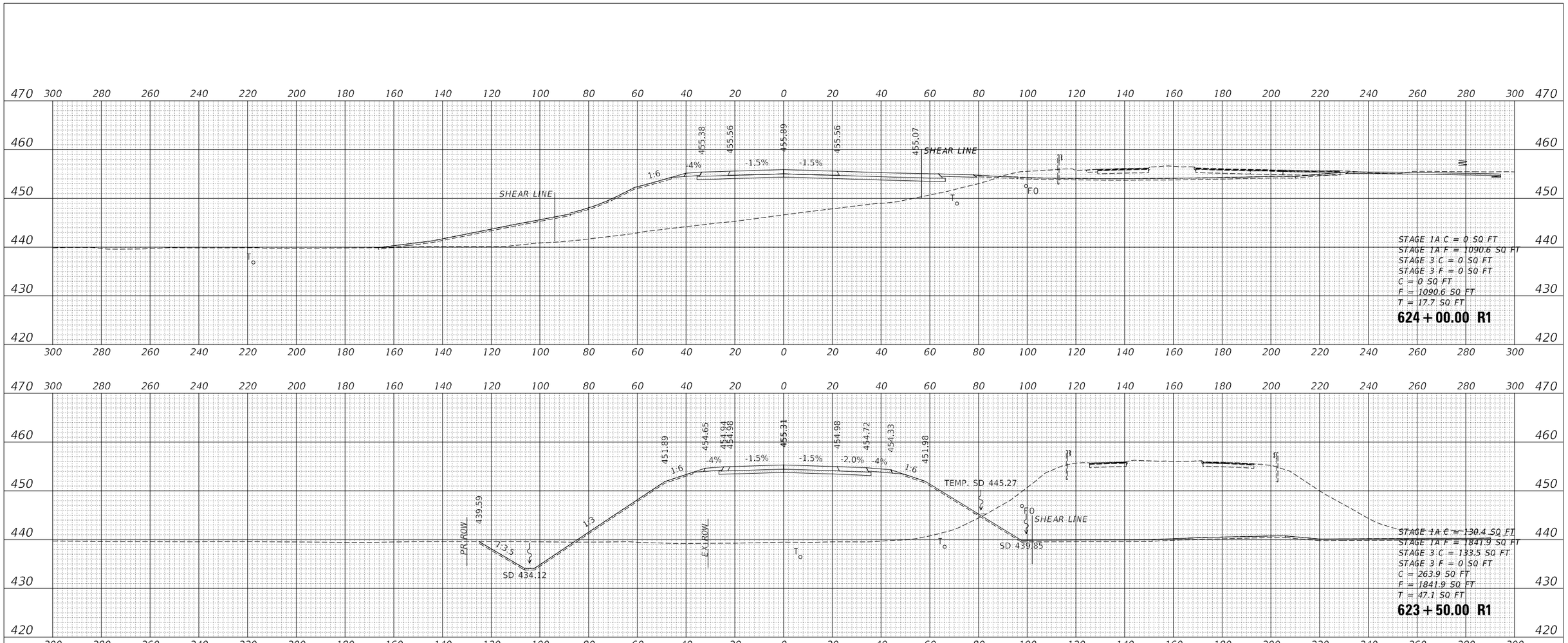
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 13 OF 44 SHEETS | STA. 621+50.00 R1 TO STA. 622+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	384
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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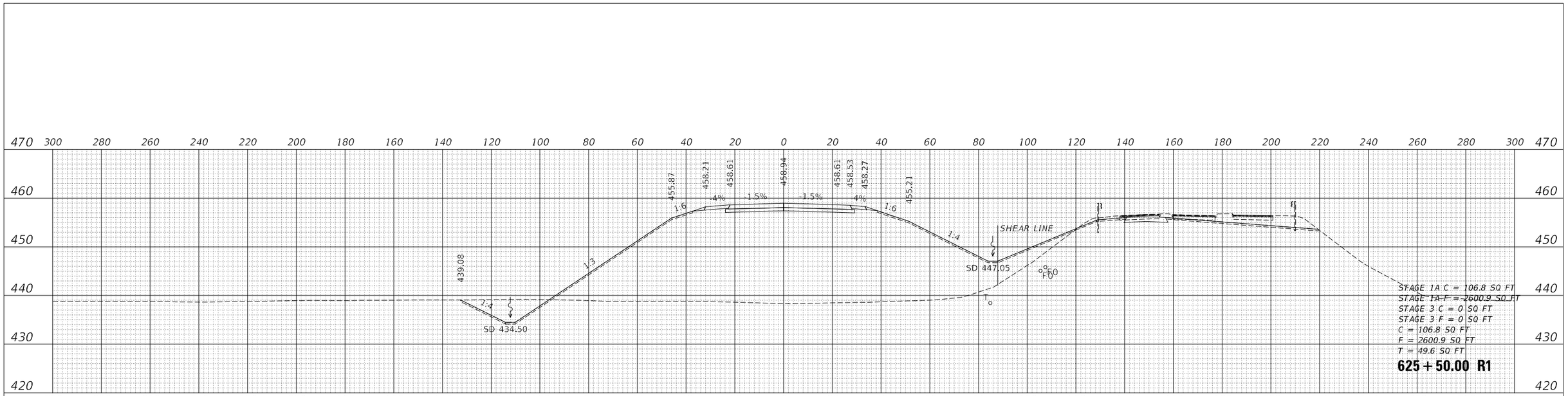
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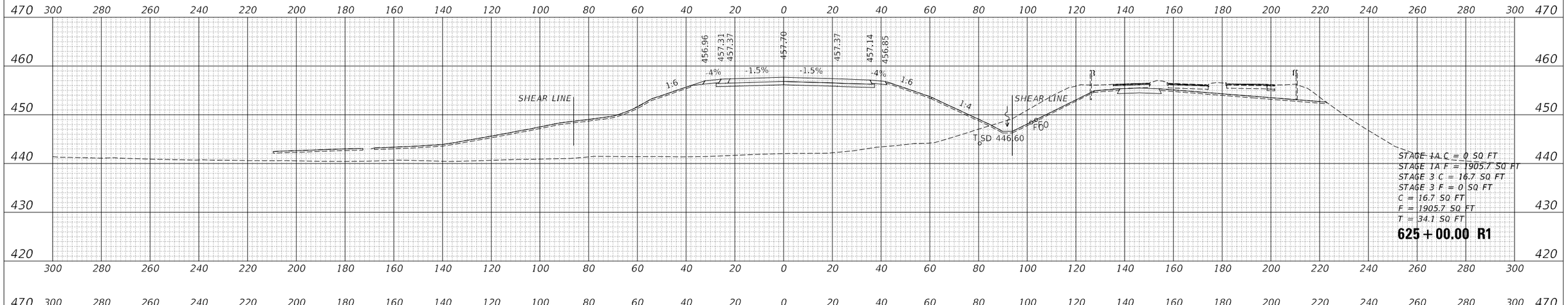
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

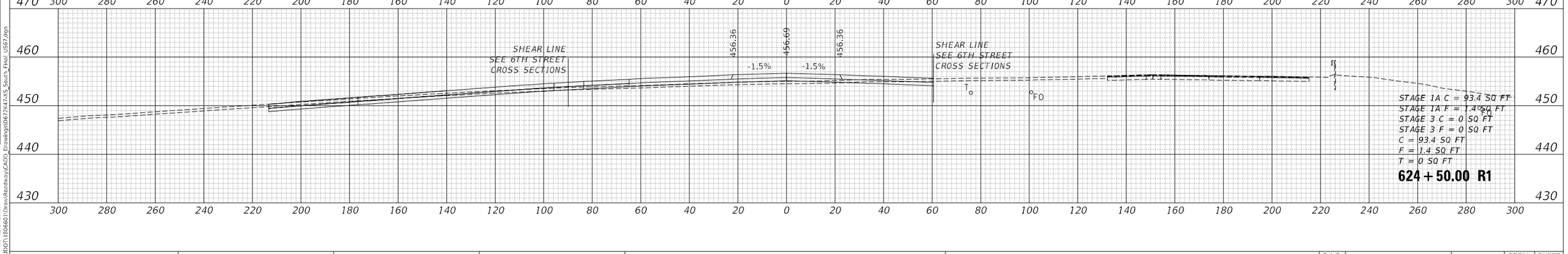
CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 14 OF 44 SHEETS
STA. 623+00.00 R1 TO STA. 624+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	385
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			







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

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

NODEL: IJ567 Final XS Sweeted
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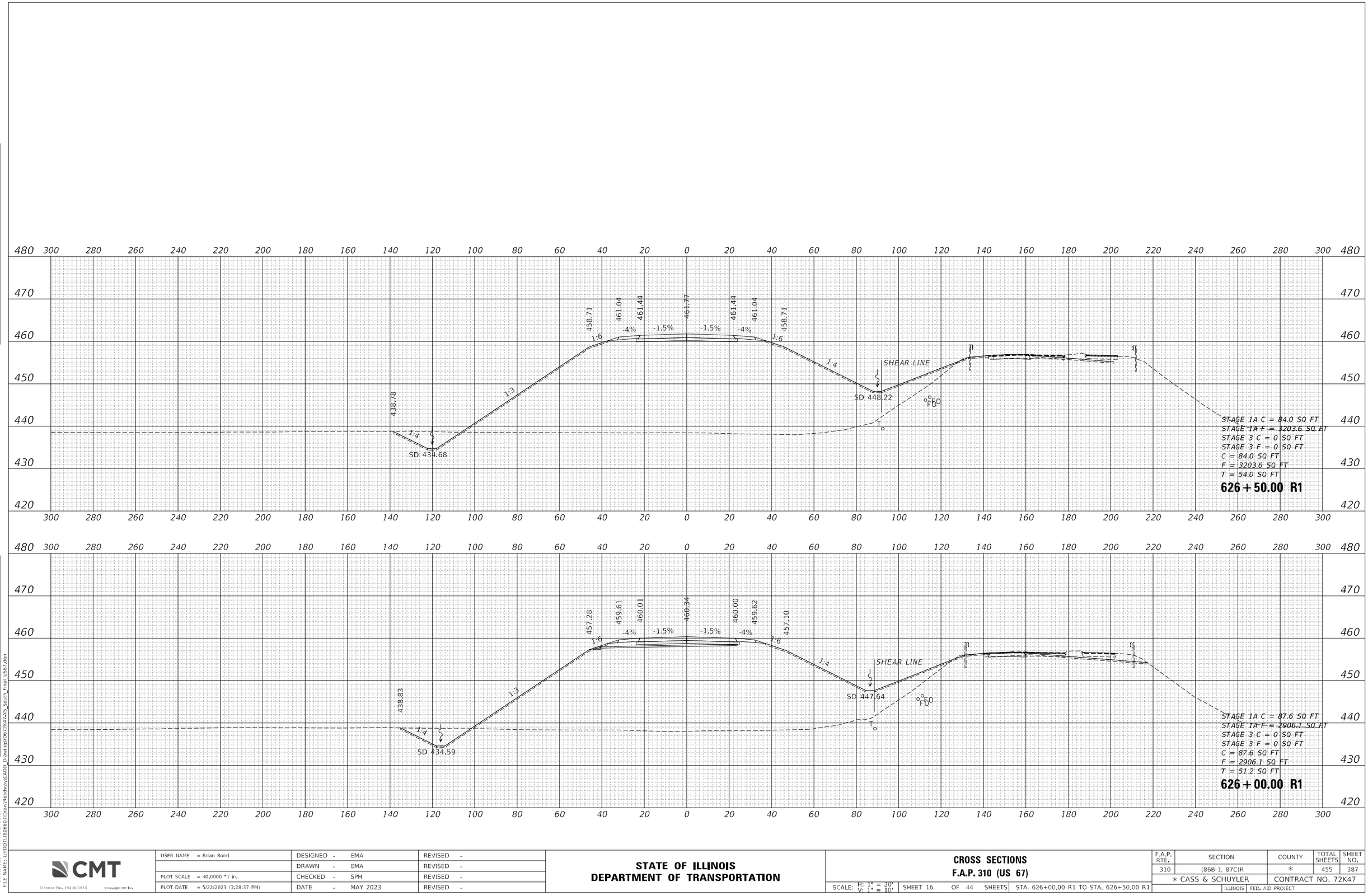
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 15 OF 44 SHEETS
STA. 624+50.00 R1 TO STA. 625+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	386
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		

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



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

MODEL: US67 Final XS Sheeted
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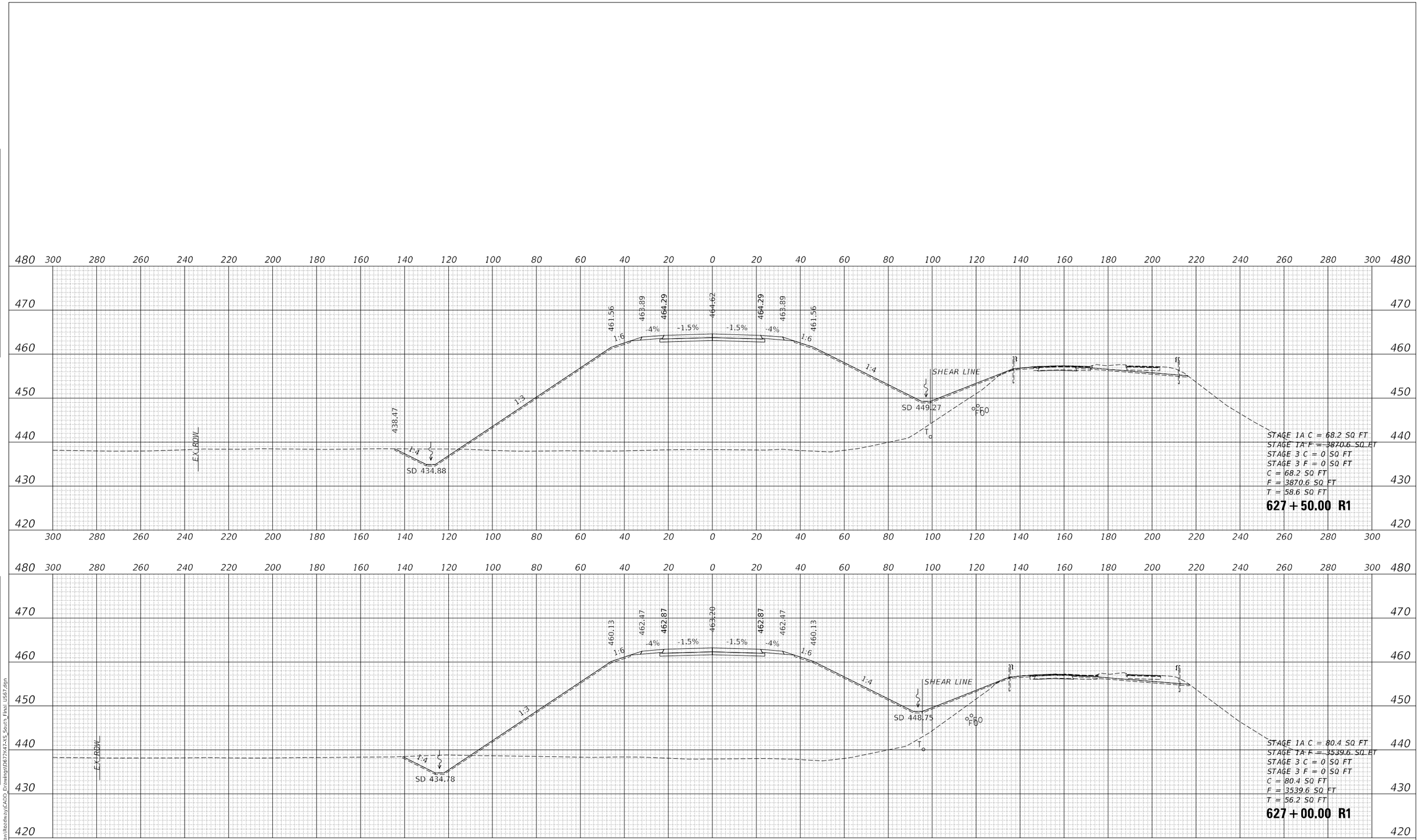
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 16 OF 44 SHEETS STA. 626+00.00 R1 TO STA. 626+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	387
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			

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



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

MODEL: US67 Final XS Sheeted
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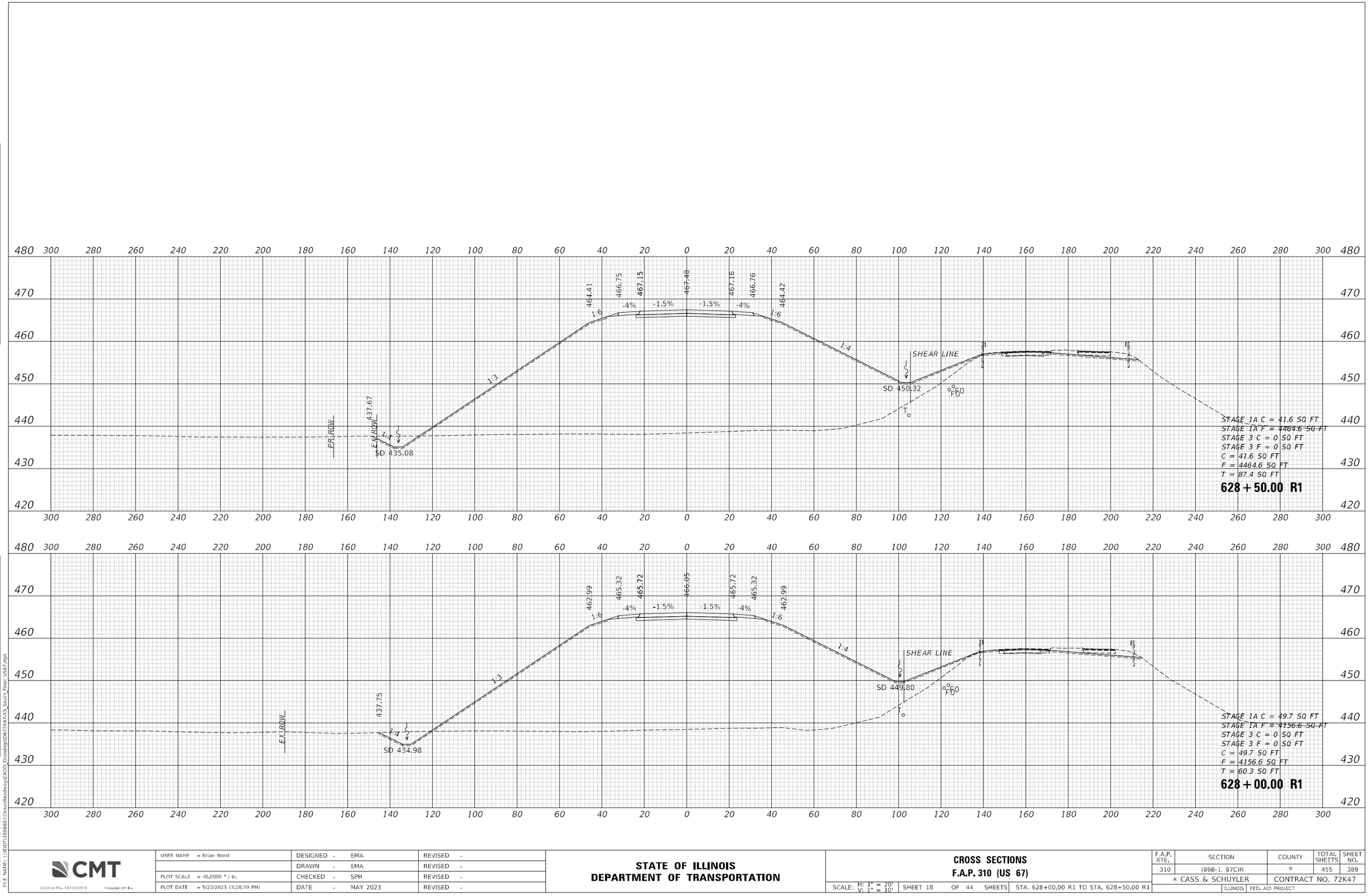
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 17 OF 44 SHEETS
STA. 627+00.00 R1 TO STA. 627+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	388
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			

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



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

MODEL: US67 Final XS Sheeted
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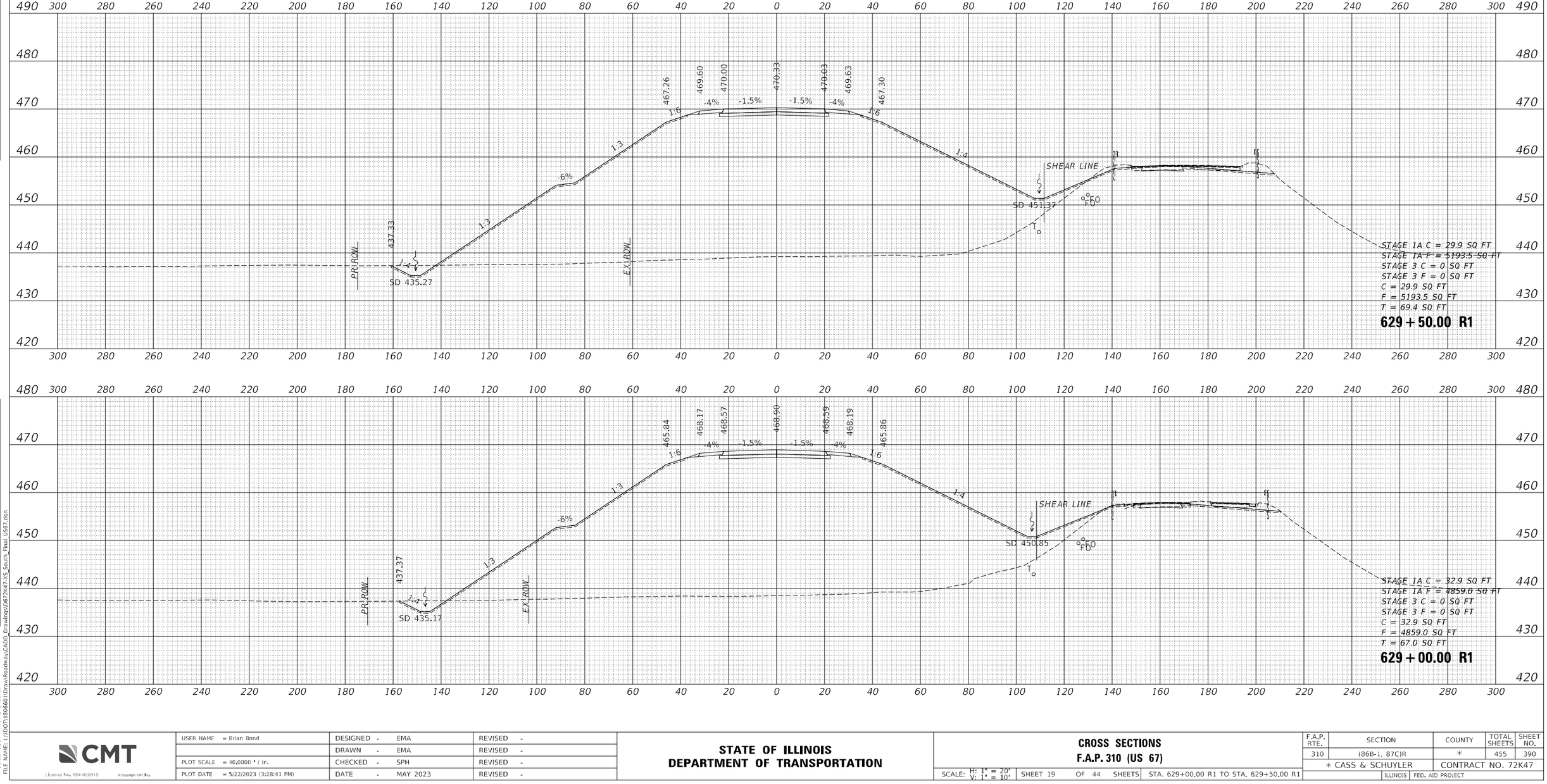
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PLOT DATE = 5/22/2023 (3:28:39 PM)	DATE - MAY 2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 18 OF 44 SHEETS
STA. 628+00.00 R1 TO STA. 628+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	389
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			



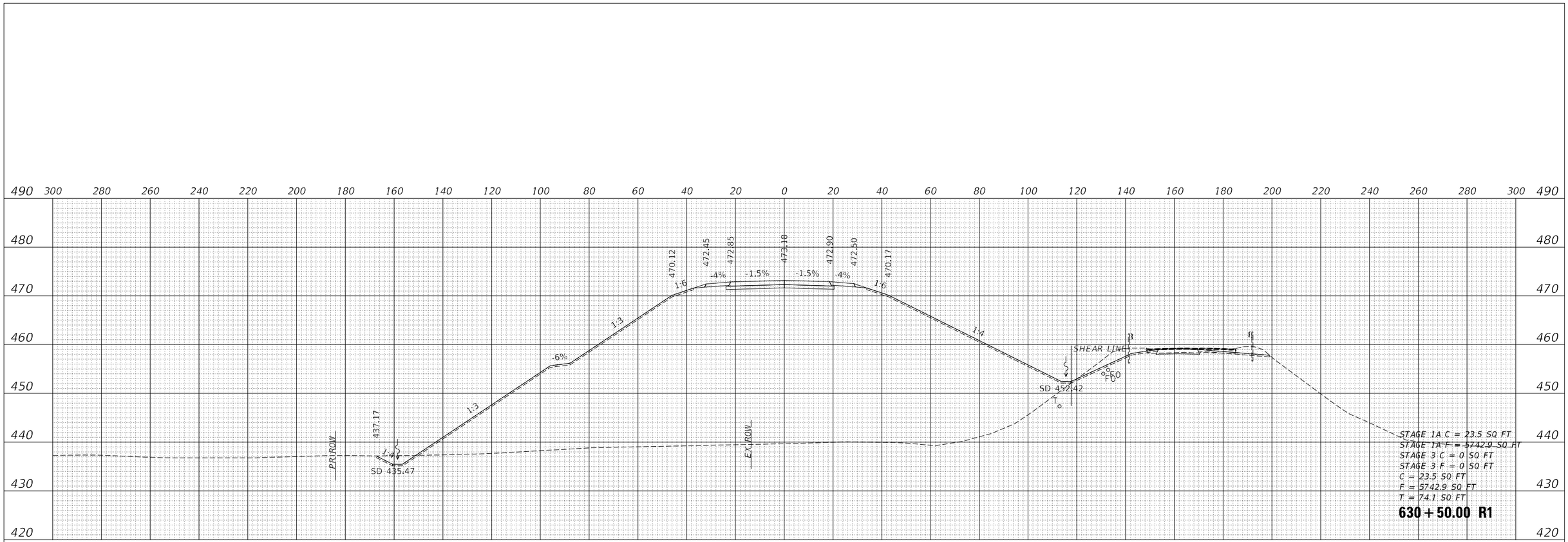
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License No. 184-000613 © Copyright CMT, Inc.		DRAWN - EMA	REVISED -		SCALE: H: 1" = 20' V: 1" = 10' | SHEET 19 OF 44 SHEETS | STA. 629+00.00 R1 TO STA. 629+50.00 R1
	PLOT SCALE = 40.0000 ' / in.	CHECKED - SPH	REVISED -		
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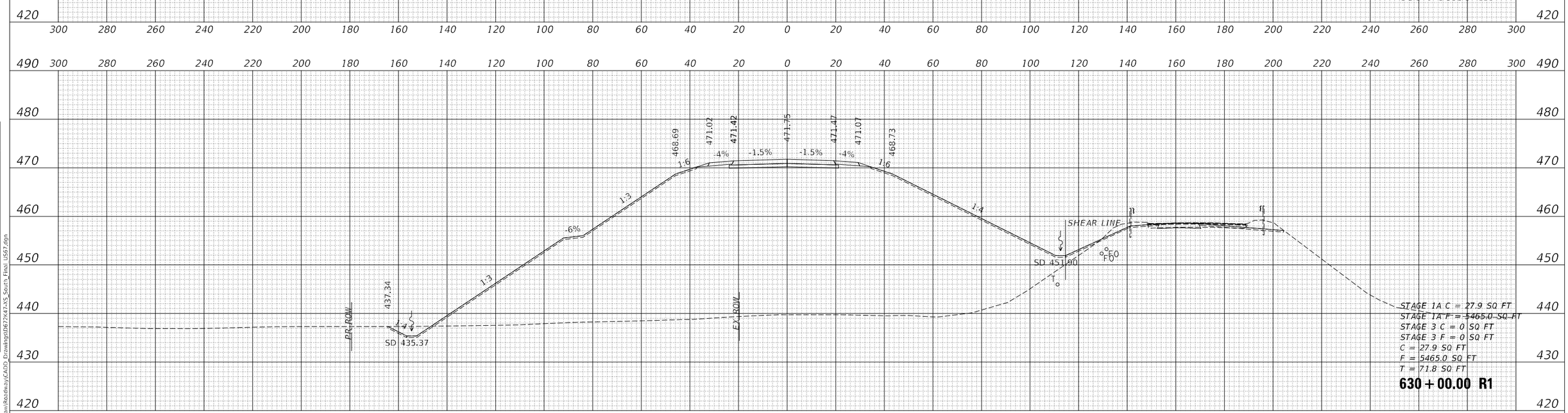
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	390
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			

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

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

MODEL: US67 Final XS Sheeted
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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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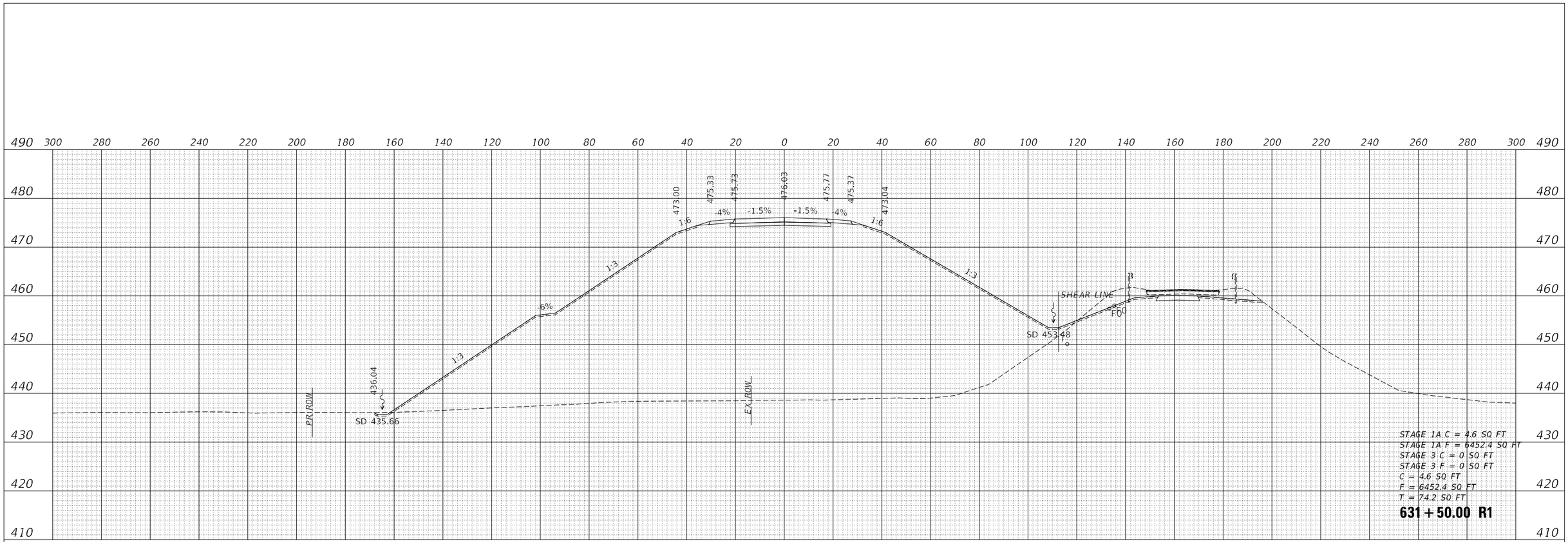
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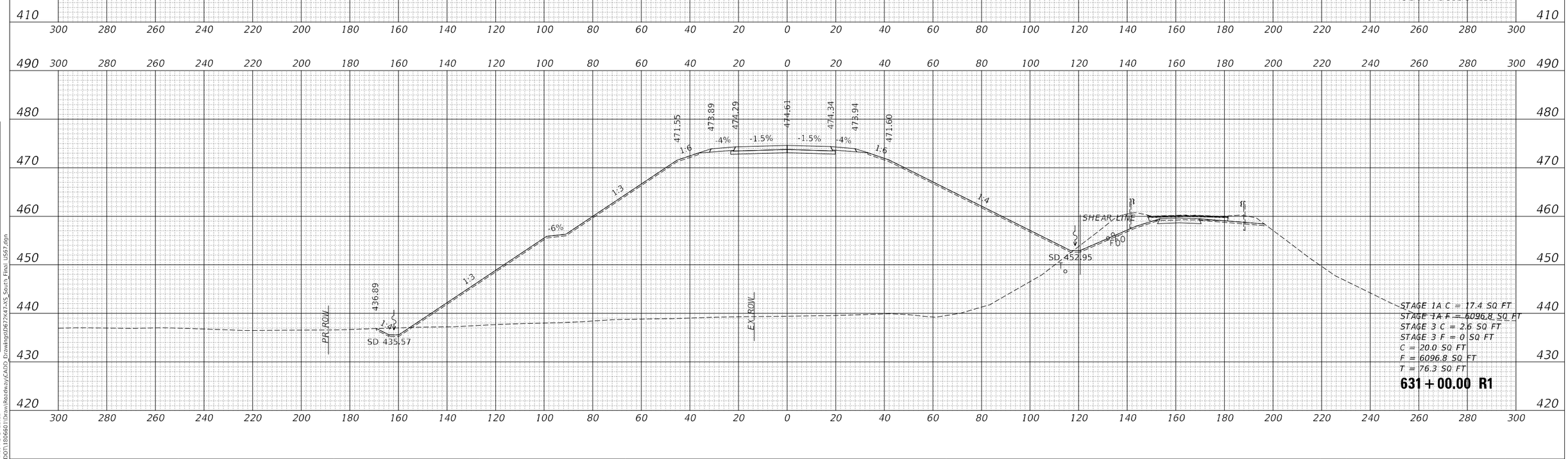
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 20 OF 44 SHEETS
STA. 630+00.00 R1 TO STA. 630+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	391
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			





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

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

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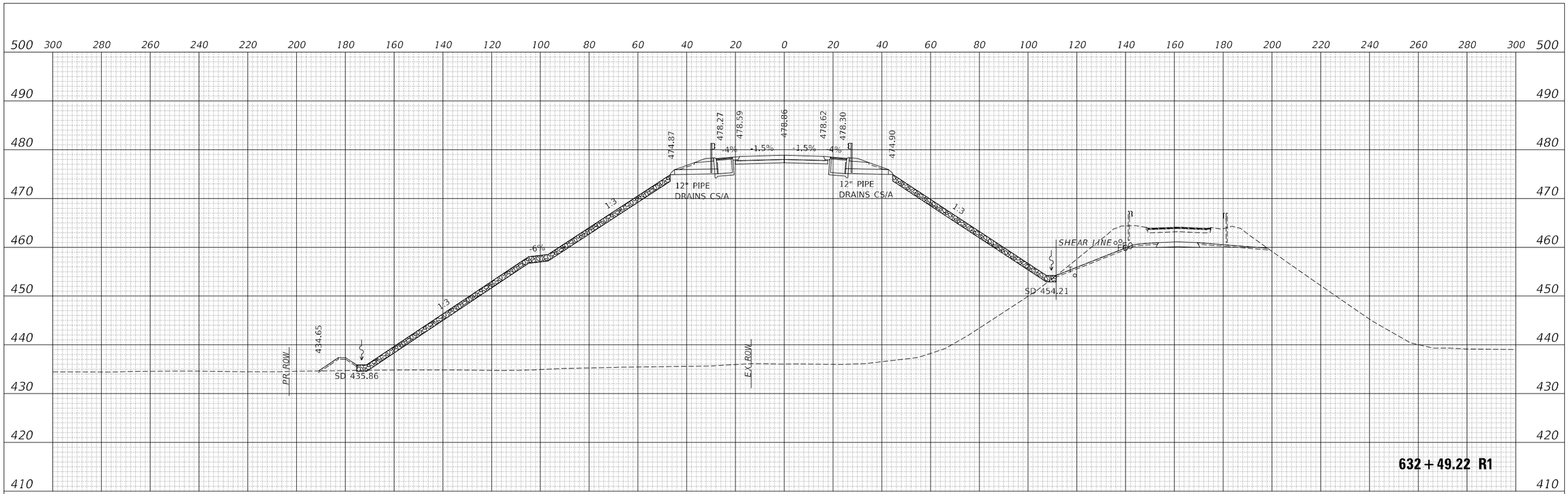
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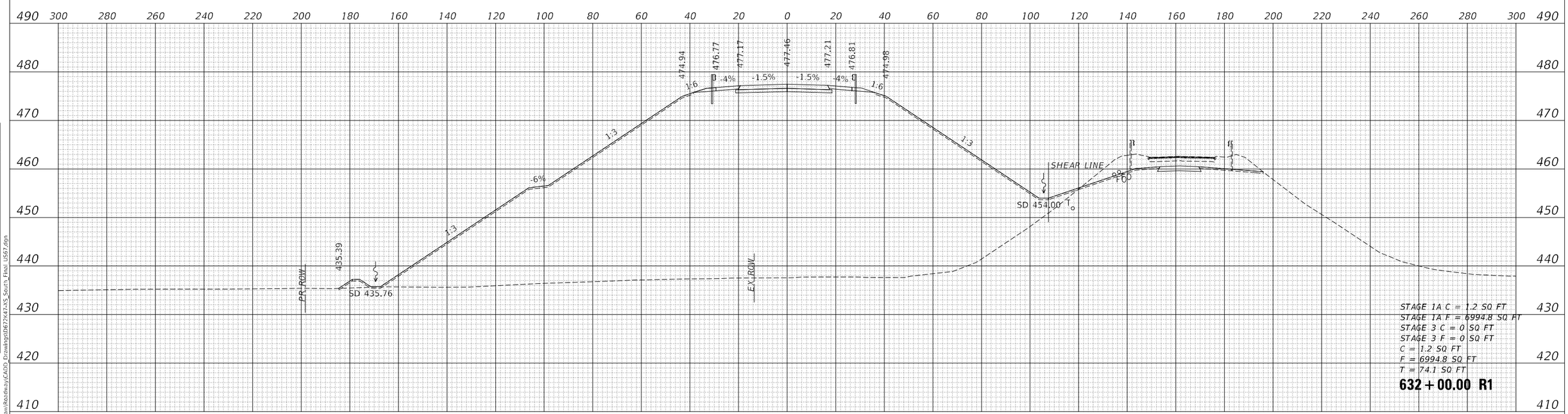
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 21 OF 44 SHEETS | STA. 631+00.00 R1 TO STA. 631+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	392
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			





FINAL SURVEY / ORIGINAL SURVEY

NO.	NOTE BOOK	PAGES	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

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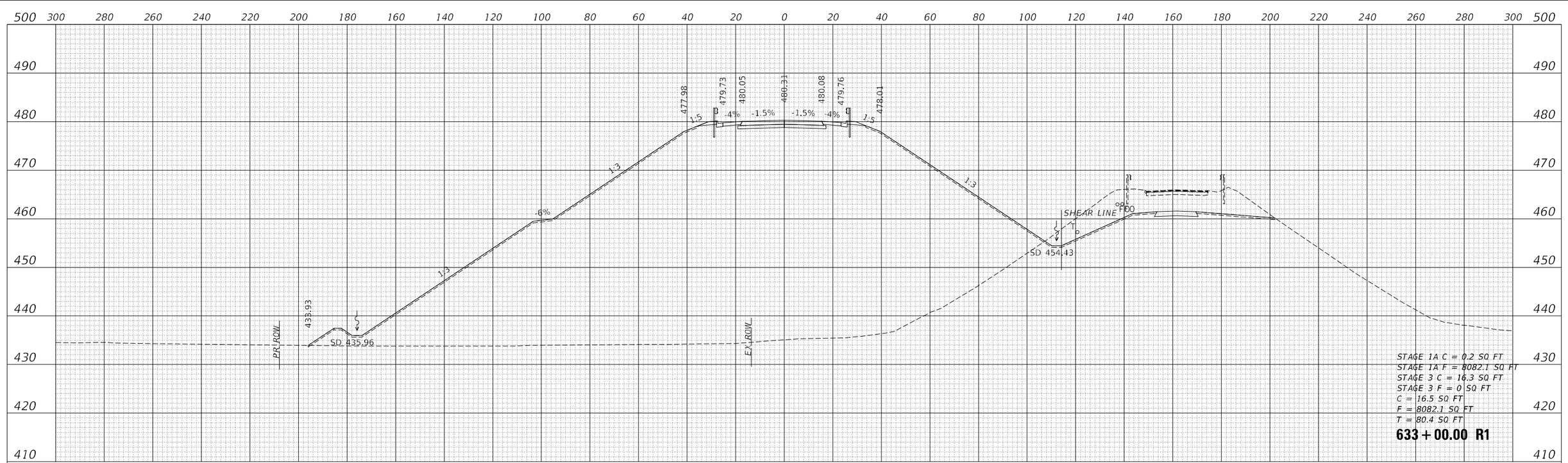
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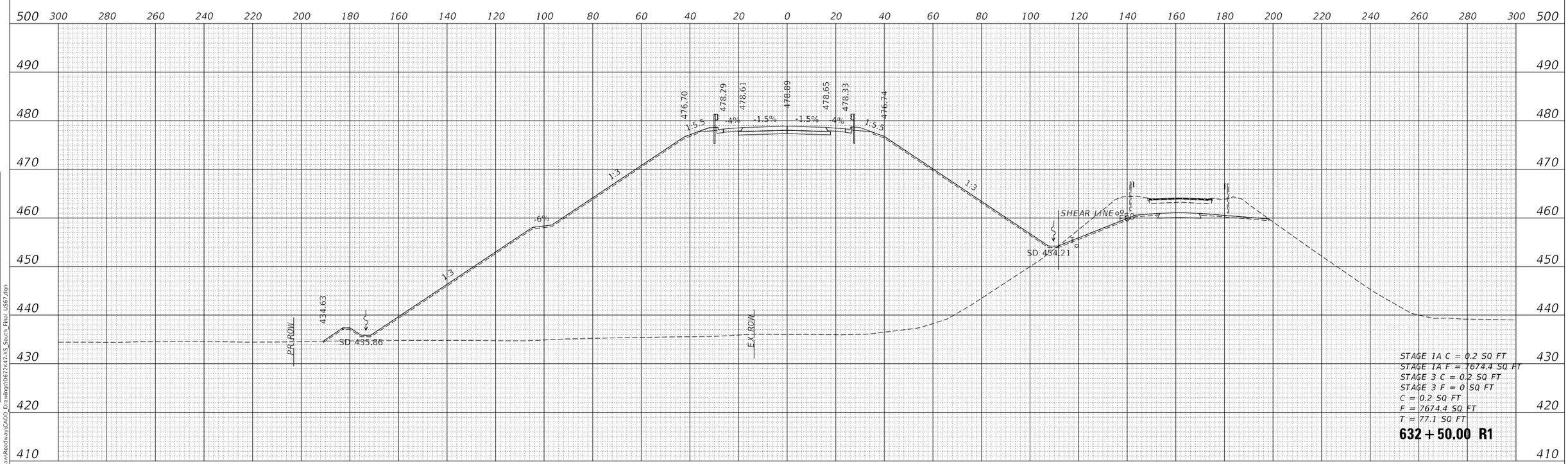
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 22 OF 44 SHEETS
STA. 632+00.00 R1 TO STA. 632+49.22 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	393
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			





FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
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AREAS CHECKED		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
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AREAS CHECKED		

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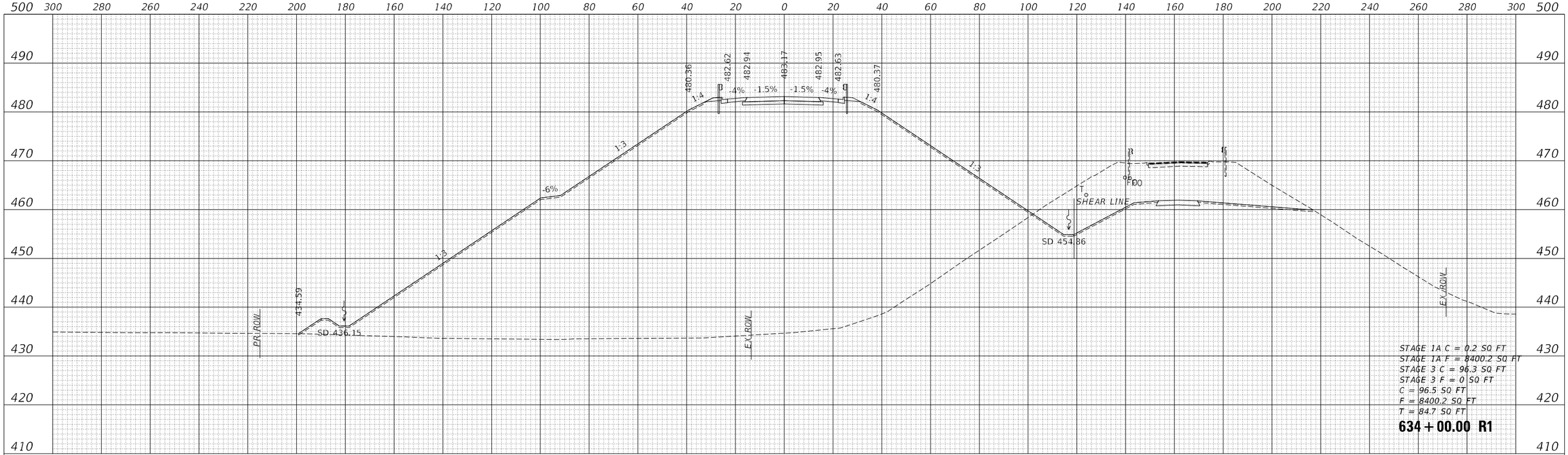
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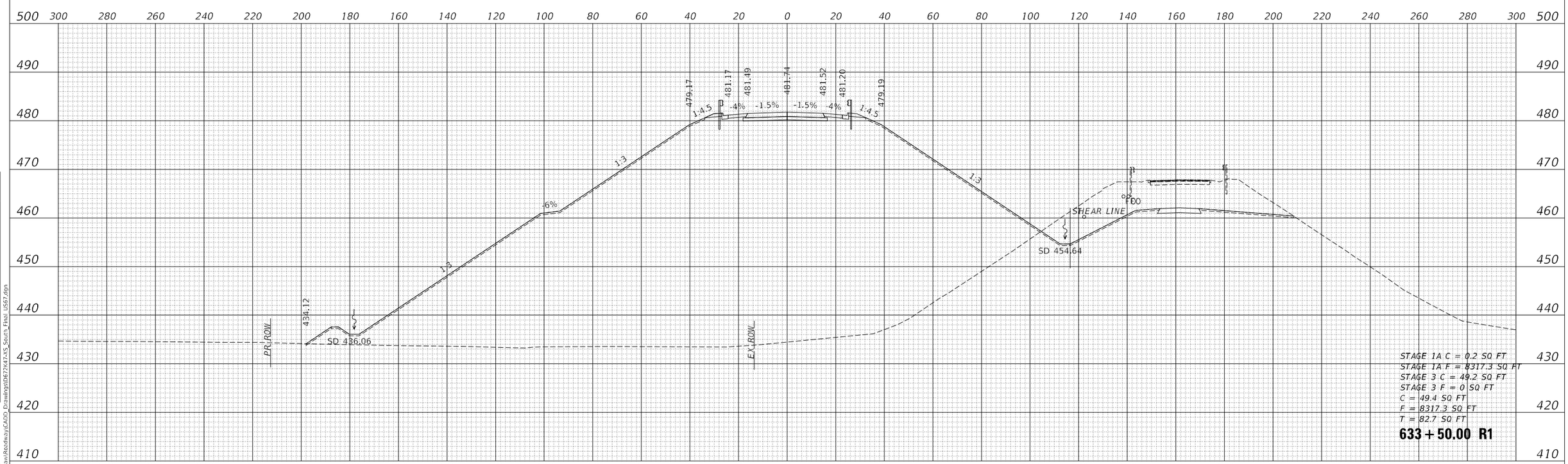
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 23 OF 44 SHEETS
STA. 632+50.00 R1 TO STA. 633+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	394
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		





FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK	AREAS CHECKED	
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ORIGINAL SURVEY	BY	DATE
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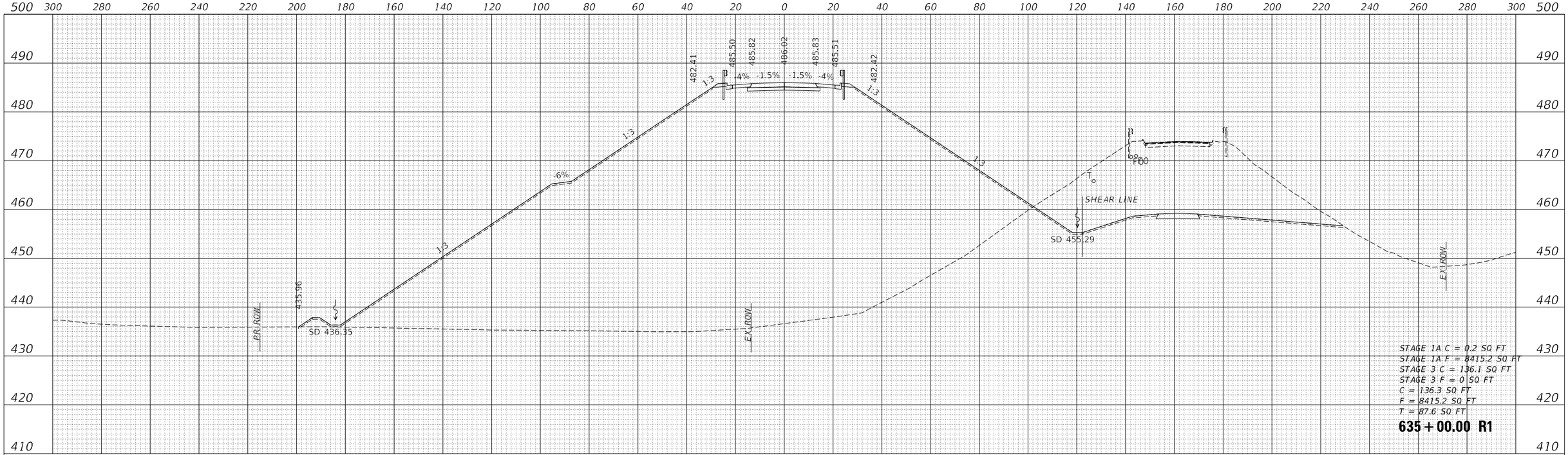
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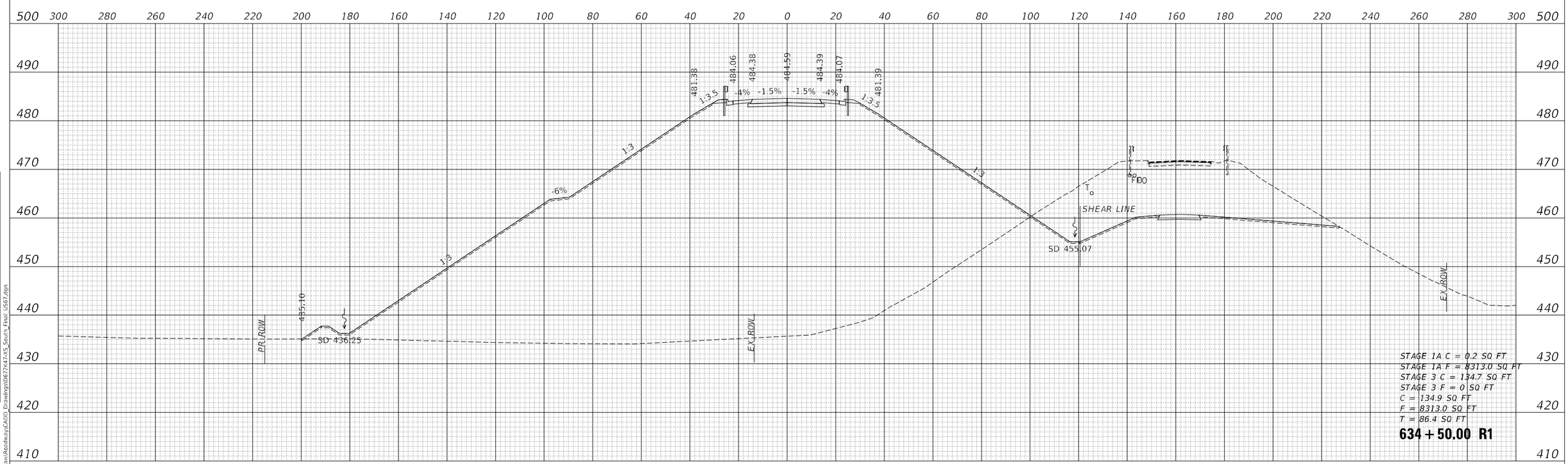
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 24 OF 44 SHEETS
STA. 633+50.00 R1 TO STA. 634+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	395
* CASS & SCHUYLER		CONTRACT NO. 72K47		
		ILLINOIS	FED. AID PROJECT	





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

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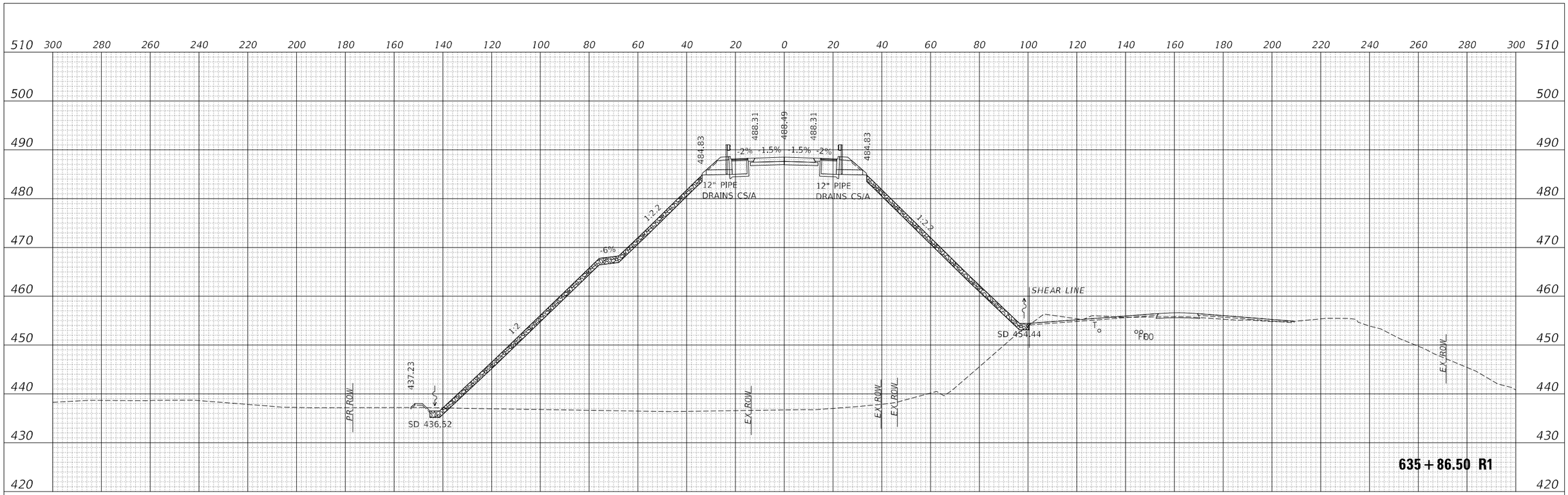
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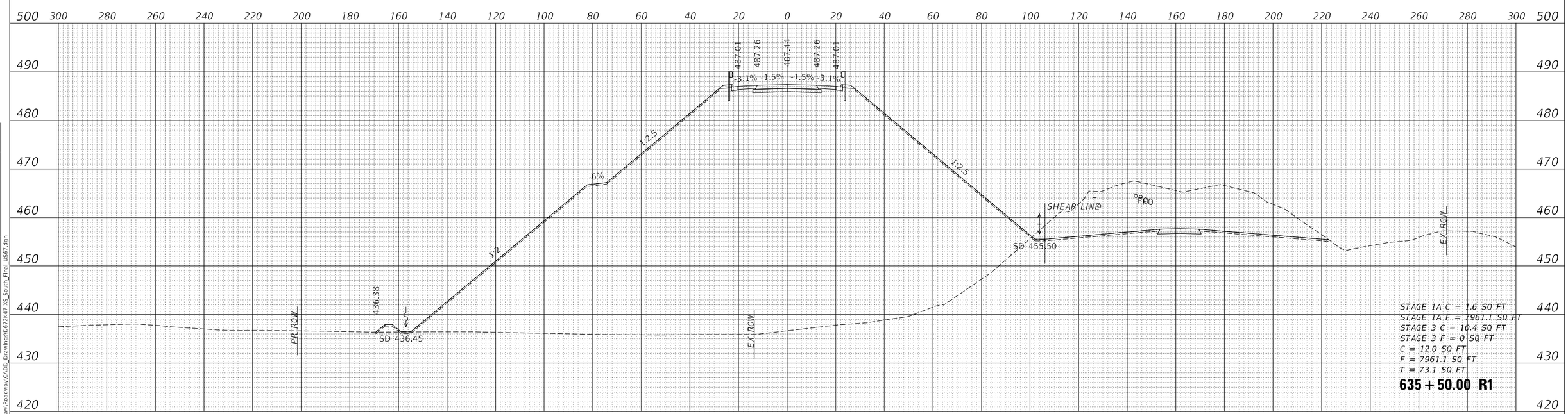
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20' V: 1" = 10' | SHEET 25 OF 44 SHEETS | STA. 634+50.00 R1 TO STA. 635+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	396
	* CASS & SCHUYLER	CONTRACT NO. 72K47		
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FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

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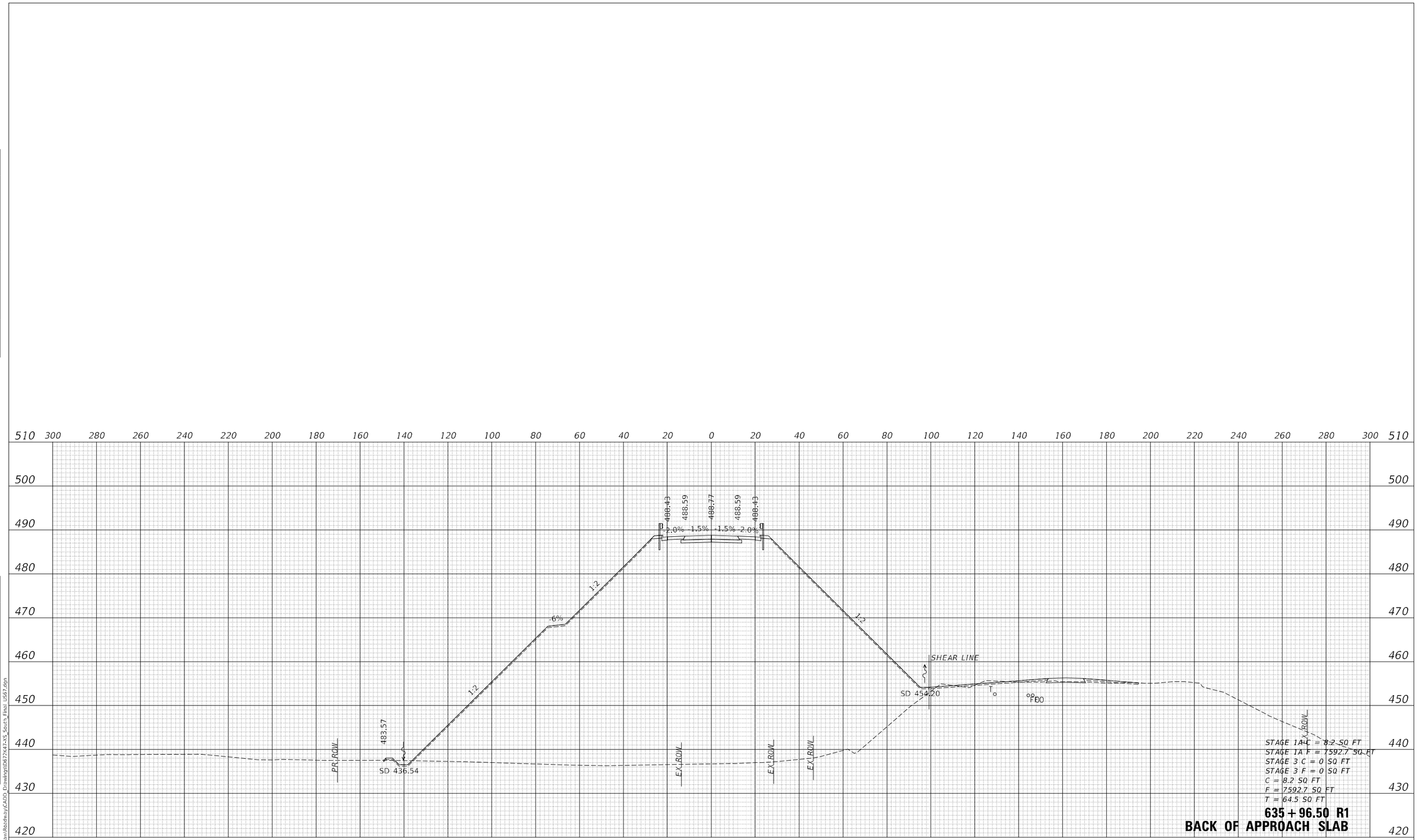
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 26 OF 44 SHEETS STA. 635+50.00 R1 TO STA. 635+86.50 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	397
* CASS & SCHUYLER		CONTRACT NO. 72K47		
ILLINOIS	FED. AID PROJECT			

FINAL SURVEY		BY	DATE
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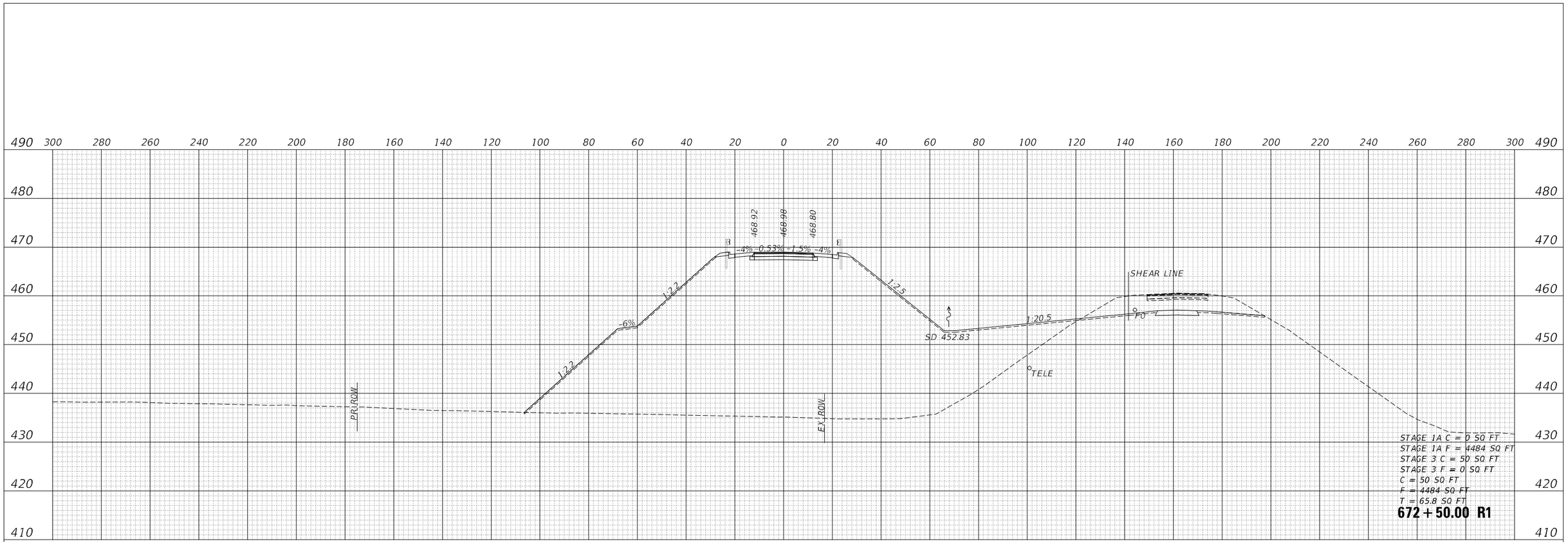
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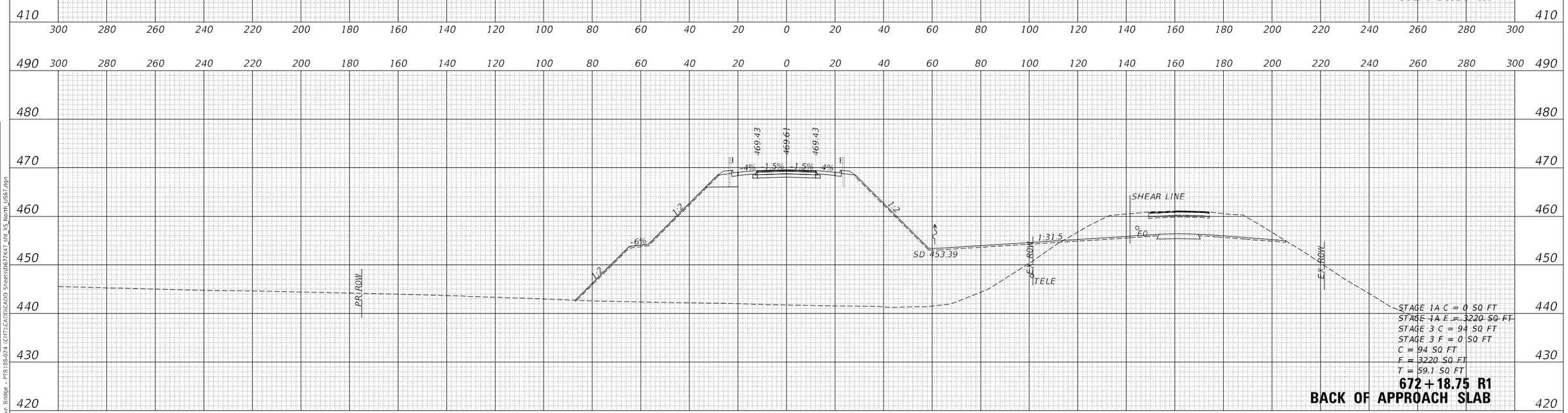
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P. 310 (US 67)

SCALE: H: 1" = 20'
V: 1" = 10'
SHEET 27 OF 44 SHEETS
STA. 635+96.50 R1 TO STA. 635+96.50 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	398
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		





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

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

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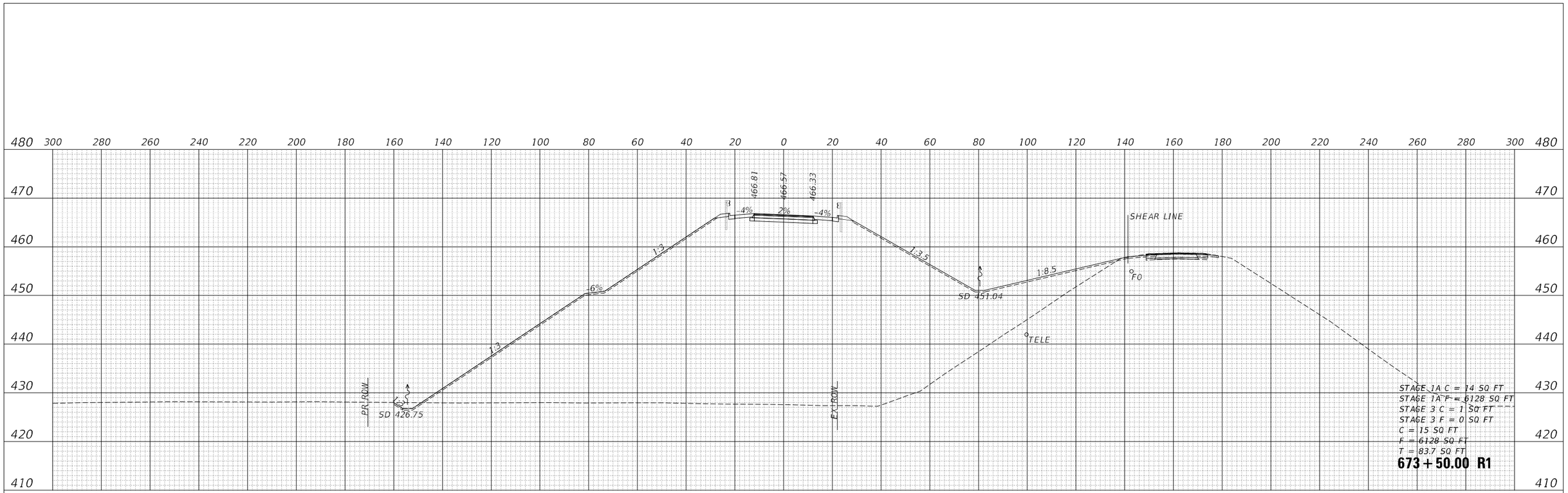
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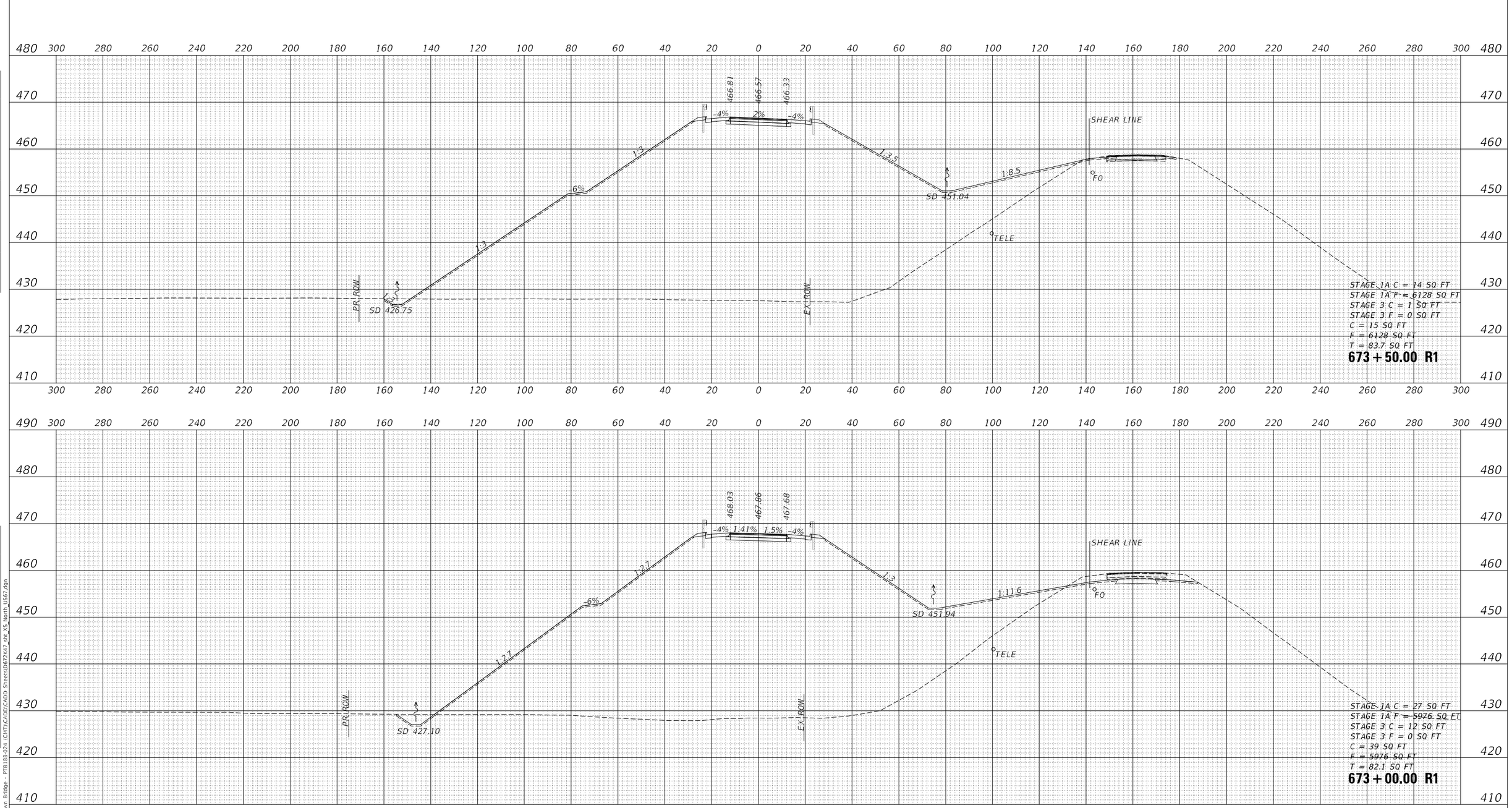
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P 310 (US 67)

SCALE: H: 1"=20' V: 1"=10' | SHEET 28 OF 44 SHEETS | STA. 672+18.75 R1 TO STA. 672+50.00 R1

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	399
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS FED. AID PROJECT			





	DATE	BY	
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	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

	DATE	BY	
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USER NAME = CThomas	DESIGNED - AWM	REVISED -		
	DRAWN - JCW	REVISED -		
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PLOT DATE = 5/23/2023	DATE - MAY 2023	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.P 310 (US 67)

SCALE: H: 1"=20' V: 1"=10' | SHEET 29 OF 44 SHEETS | STA. 673+00.00 R1 TO STA. 673+50.00 R1

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(86B-1, 87C)R	*	455	400
* CASS & SCHUYLER		CONTRACT NO. 72K47		
	ILLINOIS	FED. AID PROJECT		