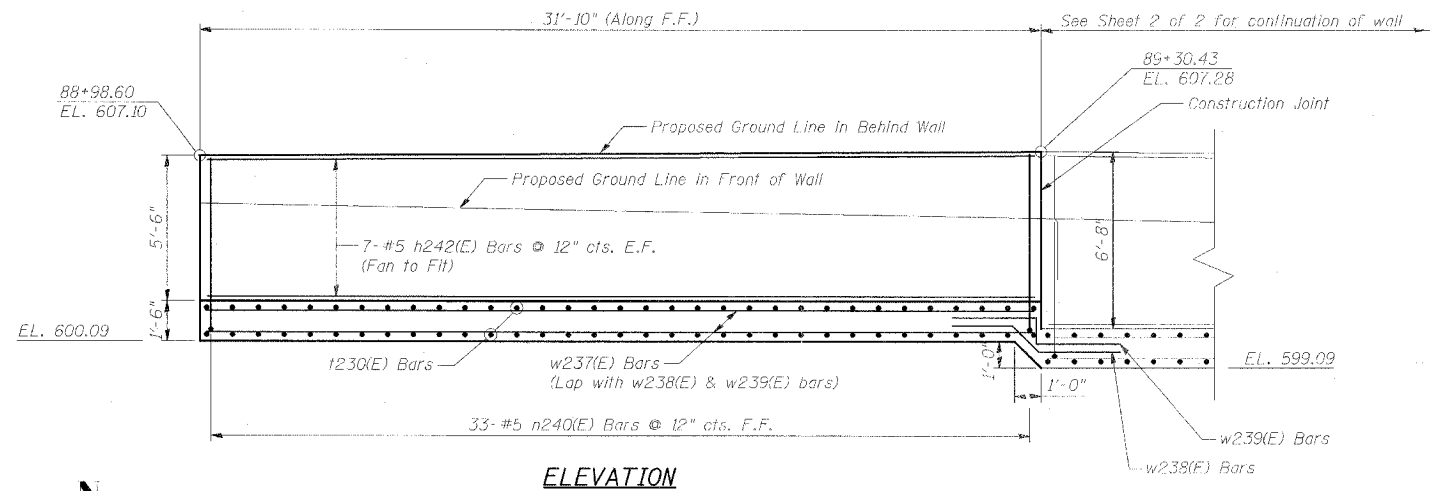


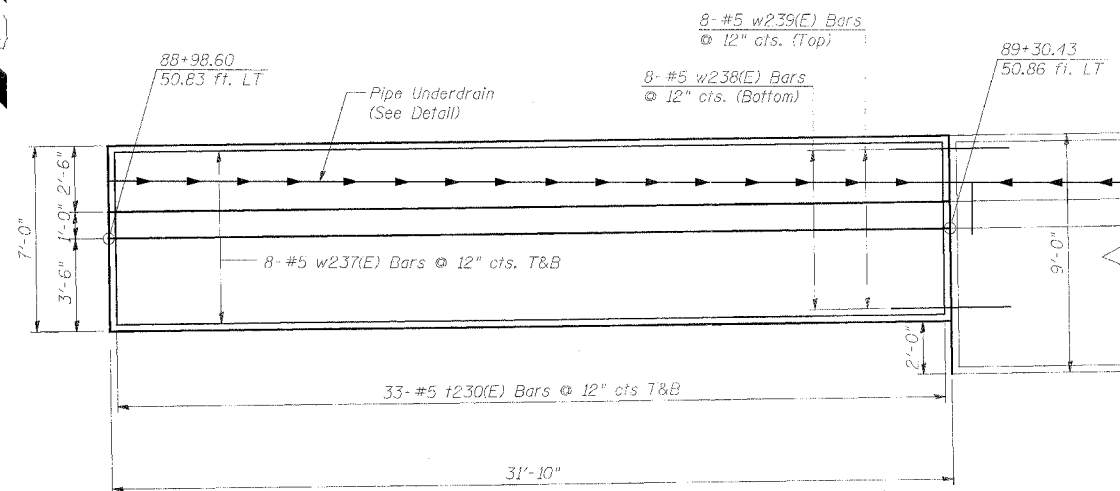
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	1501
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60E10				

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h242(E)	14	#5	34'-0"	—
n240(E)	66	#5	7'-2"	⌋
t230(E)	66	#5	6'-8"	—
w237(E)	16	#5	31'-6"	—
w238(E)	8	#5	5'-11"	⌋
w239(E)	8	#5	7'-4"	⌋
Structure Excavation	Cu Yd	97.8		
Concrete Structures	Cu Yd	19.0		
Pipe Underdrain	Foot	32		
for Structures 4"				
Reinforcement Bars, Epoxy Coated	Pound	2090		
Geocomposite Wall Drain	Sq Yd	14.5		
Porous Granular Embankment, Special	Cu Yd	10.9		

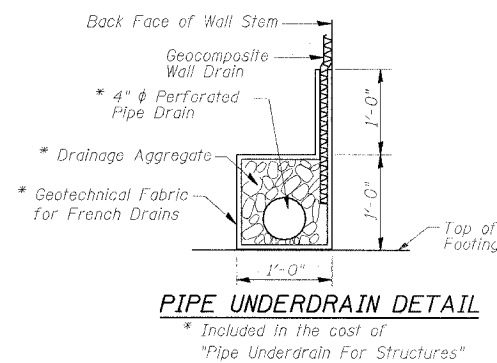
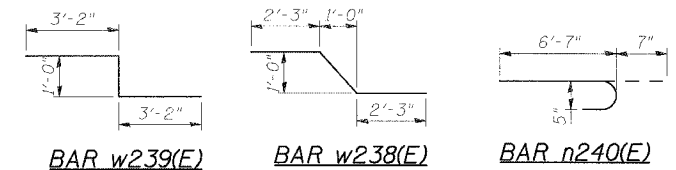


ELEVATION



PLAN

(Wall reinforcement has been omitted for clarity)

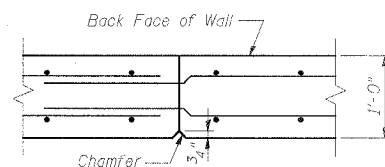


PIPE UNDERDRAIN DETAIL

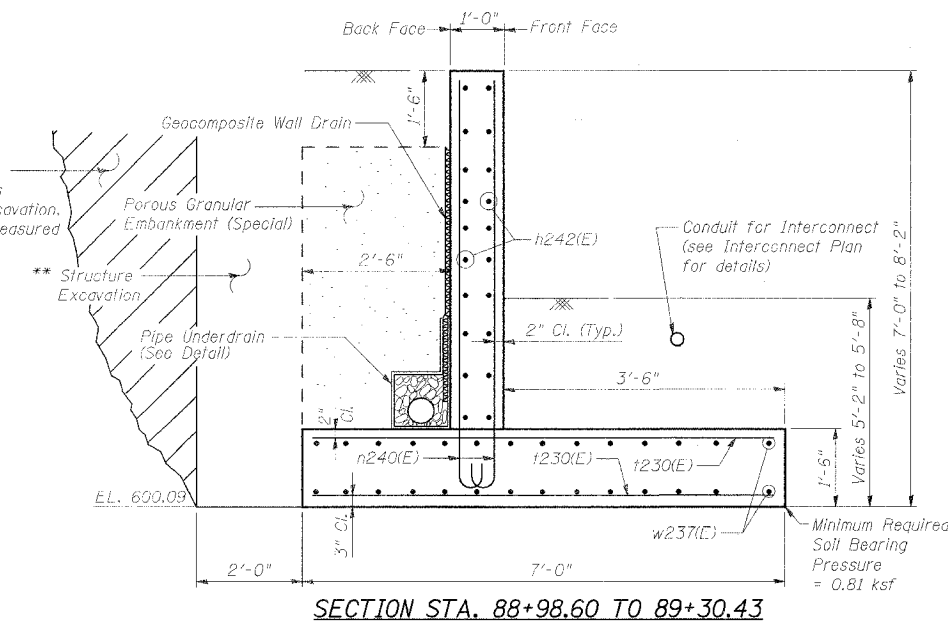
LEGEND:

- F.F. = Front Face
- B.F. = Back Face
- E.F. = Each Face
- T&B = Top and Bottom

Over Excavation beyond the limits of structure excavation. This area not measured for payment.



CONSTRUCTION JOINT DETAIL



SECTION STA. 88+98.60 TO 89+30.43

** See Section 502 of the Standard Specification

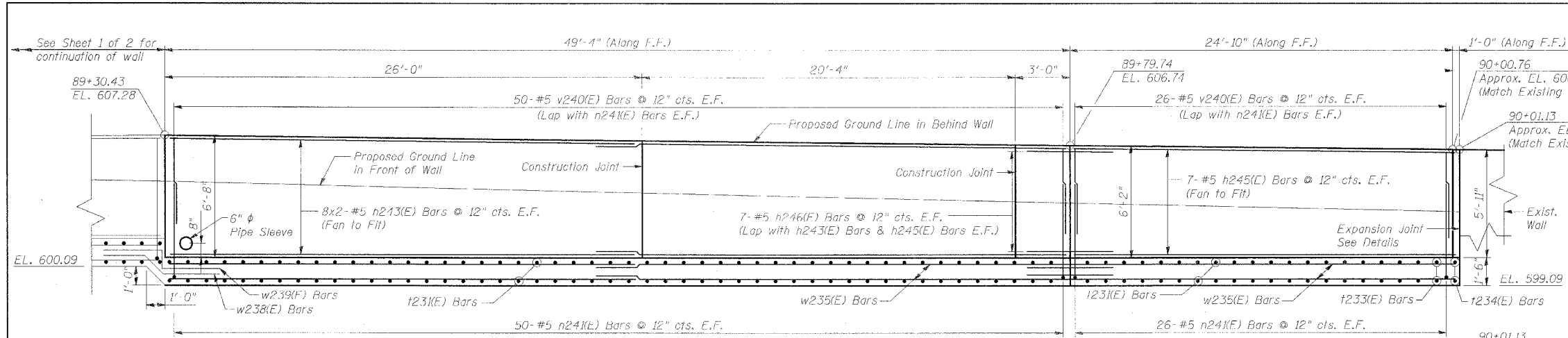
NOTES:

1. Work this Sheet with Sheet 2 of 2.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Concrete clear cover shall be 2" minimum unless noted otherwise.
4. All edges shall have standard 3/4" chamfers except as noted.
5. Min. Lap for Bar #5 = 2'-2"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM LEXINGTON AVE TO FISK AVE
 US RTE 6 & PARK AVE. NW RET. WALL
 SHEET 1 OF 2
 DATE 02/21/08
 DRAWN BY PMV
 CHECKED BY MAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	502
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 60E10	



NOTES:

1. Work this Sheet with Sheet 1 of 2.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Concrete clear cover shall be 2" minimum unless noted otherwise.
4. All edges shall have standard 3/4" chamfers except as noted.
5. Min. Lap for Bar #5 = 2'-2".
6. A firmly bonded membrane dampproofing system shall be placed as shown across the joint between new and old concrete. Dampproofing shall consist of one coat of asphalt primer (ASTM D41), two coats of Type 2 asphalt (ASTM D419), and two layers of woven glass (ASTM D166B) or glass fiber mat (ASTM D217B) fabric. Dampproofing shall extend from top of wall to top of footing and shall be included in the cost of "Concrete Structures".
7. Pipe Sleeve shall be included in the cost of "Concrete Structures".

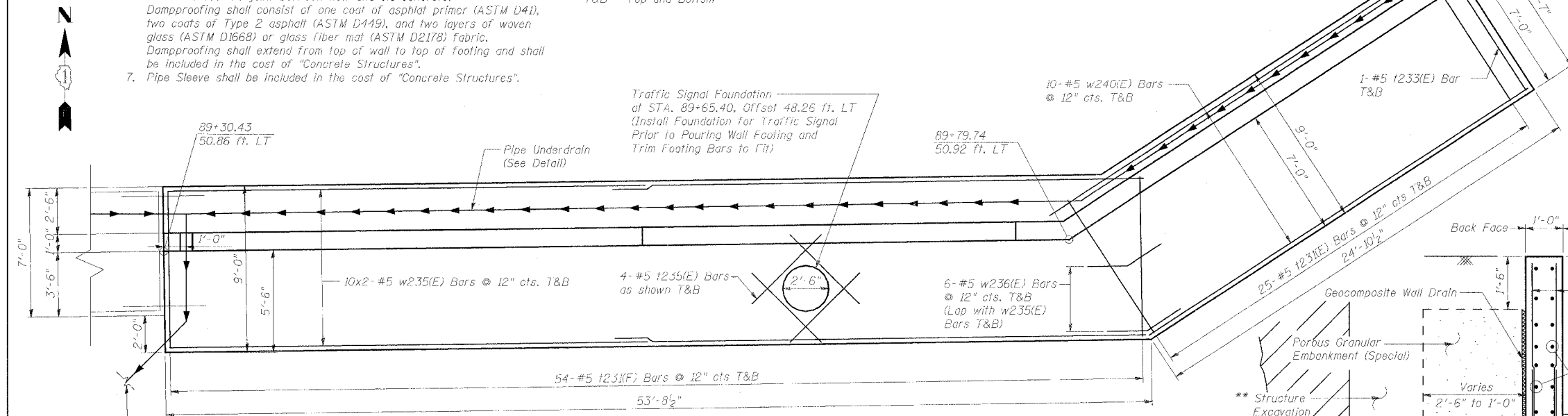
ELEVATION

LEGEND:

- F.F. = Front Face
- B.F. = Back Face
- E.F. = Each Face
- T&B = Top and Bottom

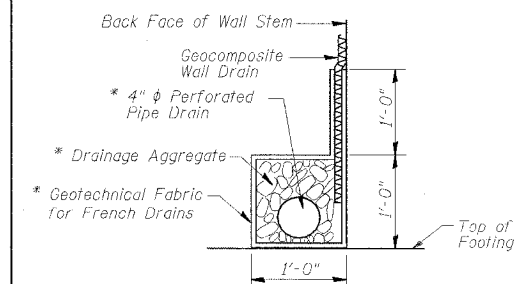
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h243(E)	32	#5	25'-8"	—
h245(E)	14	#5	24'-10"	—
h246(E)	14	#5	4'-4"	—
n24(E)	152	#5	4'-9"	U
t23(E)	158	#5	8'-8"	—
t233(E)	2	#5	7'-5"	—
t235(E)	8	#5	5'-6"	—
v240(E)	152	#5	5'-9"	—
w235(E)	40	#5	27'-11"	—
w236(E)	12	#5	4'-4"	—
w240(E)	20	#5	24'-8"	—
Structure Excavation	Cu Yd		262.8	
Concrete Structures	Cu Yd		55.0	
Pipe Underdrain for Structures 4"	Foot		105	
Reinforcement Bars, Epoxy Coated	Pound		6180	
Geocomposite Wall Drain	Sq Yd		39.4	
Porous Granular Embankment, Special	Cu Yd		30.1	



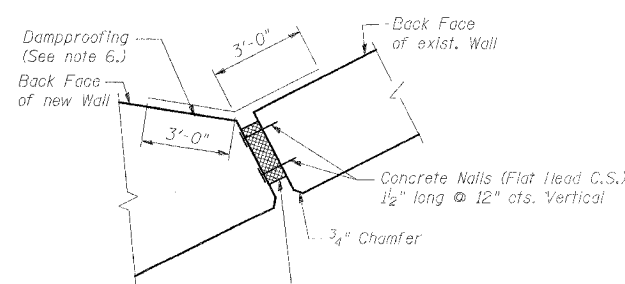
PLAN

(Wall reinforcement has been omitted for clarity)



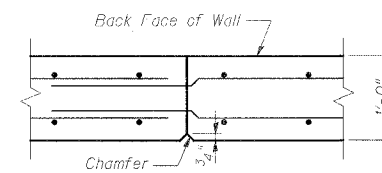
PIPE UNDERDRAIN DETAIL

* Included in the cost of "Pipe Underdrain For Structures"



EXPANSION JOINT DETAIL

(Cost included with Concrete Structures)



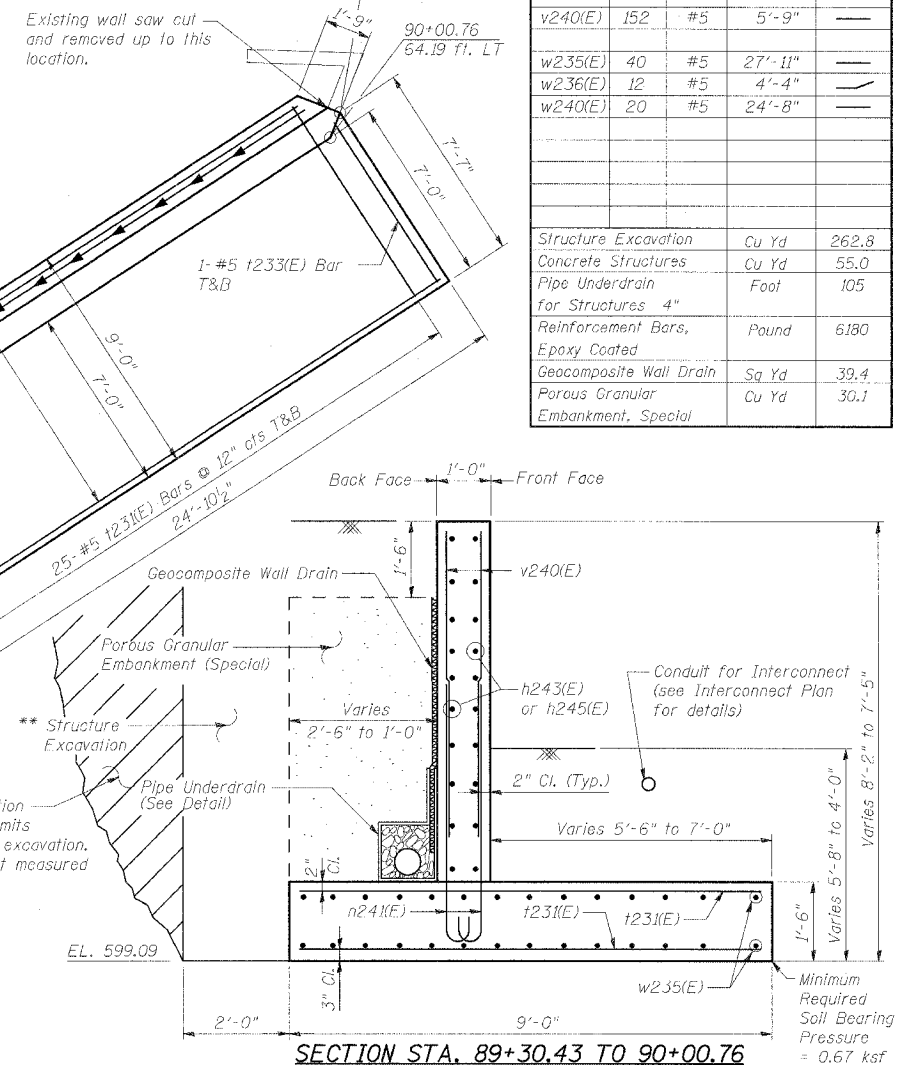
CONSTRUCTION JOINT DETAIL



BAR n24(E)

BAR h246(E)

BAR w236(E)



SECTION STA. 89+30.43 TO 90+00.76

** See Section 502 of the Standard Specification

Minimum Required Soil Bearing Pressure = 0.67 ksf

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM LEXINGTON AVE TO FISK AVE
US RTE 6 & PARK AVE. NW RET. WALL
SHEET 2 OF 2

DATE 02/21/08 DRAWN BY PMV CHECKED BY MAD

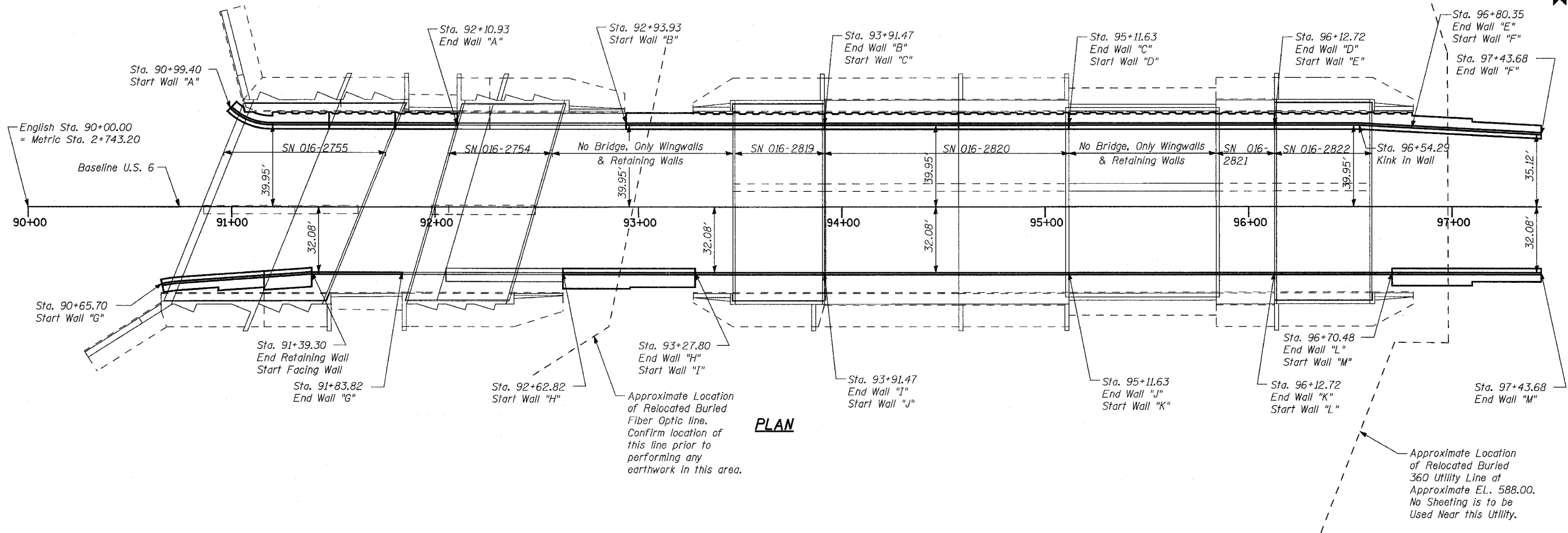
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	503
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT-		
CONTRACT NO. 60E10				

SHEET NO. 1
24 SHEETS

INDEX OF SHEETS:

- Sidewalk Retaining Wall Location Plan
- Retaining Wall "A" - Sta. 90+99.40 to 92+10.93
- Retaining Wall "A" Details - Sta. 90+99.40 to 92+10.93
- Retaining Wall "B" - Sta. 92+93.93 to 93+91.47
- Retaining Wall "B" Details - Sta. 92+93.93 to 93+91.47
- Retaining Wall "C" - Sta. 93+91.47 to 95+11.63
- Retaining Wall "C" Details - Sta. 93+91.47 to 95+11.63
- Retaining Wall "D" - Sta. 95+11.63 to 96+12.72
- Retaining Wall "D" Details - Sta. 95+11.63 to 96+12.72
- Retaining Wall "E" - Sta. 96+12.72 to 96+80.35
- Retaining Wall "E" Details - Sta. 96+12.72 to 96+80.35
- Retaining Wall "F" - Sta. 96+80.35 to 97+43.68
- Retaining Wall "F" Details - Sta. 96+80.35 to 97+43.68
- Retaining Wall "G" - Sta. 90+65.70 to 91+83.82
- Retaining Wall "G" Details - Sta. 90+65.70 to 91+83.82
- Retaining Wall "H" - Sta. 92+62.82 to 93+27.80
- Retaining Wall "I" - Sta. 93+27.80 to 93+91.47
- Retaining Wall "J" - Sta. 93+91.47 to 95+11.63
- Retaining Wall "K" - Sta. 95+11.63 to 96+12.72
- Retaining Wall "L" - Sta. 96+12.72 to 96+70.48
- Retaining Wall "M" - Sta. 96+70.48 to 97+43.68
- Miscellaneous Details
- Railing Details
- Underdrain Layout for Structures



PLAN

SUMMARY OF U.S. 6 MAINLINE RETAINING WALLS ALONG 159TH STREET

		Wall "A"	Wall "B"	Wall "C"	Wall "D"	Wall "E"	Wall "F"	Wall "G"	Wall "H"	Wall "I"	Wall "J"	Wall "K"	Wall "L"	Wall "M"	Total
Porous Granular Embankment	Cu. Yd.	152	173	190	159	116	79	110	180	0	0	0	0	79	1,238
Structure Excavation	Cu. Yd.	115	297	202	170	105	314	26	297	0	0	0	0	241	1,767
Concrete Structures	Cu. Yd.	97.4	95.0	119.4	101.5	66.7	47.4	77.6	68.0	20.1	46.2	43.2	25.5	56.1	864.1
Reinforcement Bars, Epoxy Coated	Pound	9,840	9,560	11,830	9,920	6,660	5,000	8,610	7,170	2,390	4,880	4,220	2,400	5,980	88,460
Bar Splicers	Each	70	16	54	0	16	0	38	0	16	36	0	18	0	264
Geocomposite Wall Drain	Sq. Yd.	88	96	125	105	72	37	51	62	0	0	0	0	36	672
Non-Special Waste Disposal	Cu. Yd.	115.1	297.3	55.0	170.2	105.0	0	4.9	0	0	0	0	0	241.1	1052.0
Bicycle Railing	Foot														1280
		North Walls = 620												South Walls = 660	

See Underdrain Layout for Structures sheet for Underdrain quantities

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
SIDEWALK RETAINING WALL LOCATION PLAN
U.S. 6 MAINLINE RETAINING WALLS ALONG 159TH STREET

SCALE: DATE: 2/21/2008

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

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DESIGNED MAD
CHECKED JPB
DRAWN MAD
CHECKED DEY

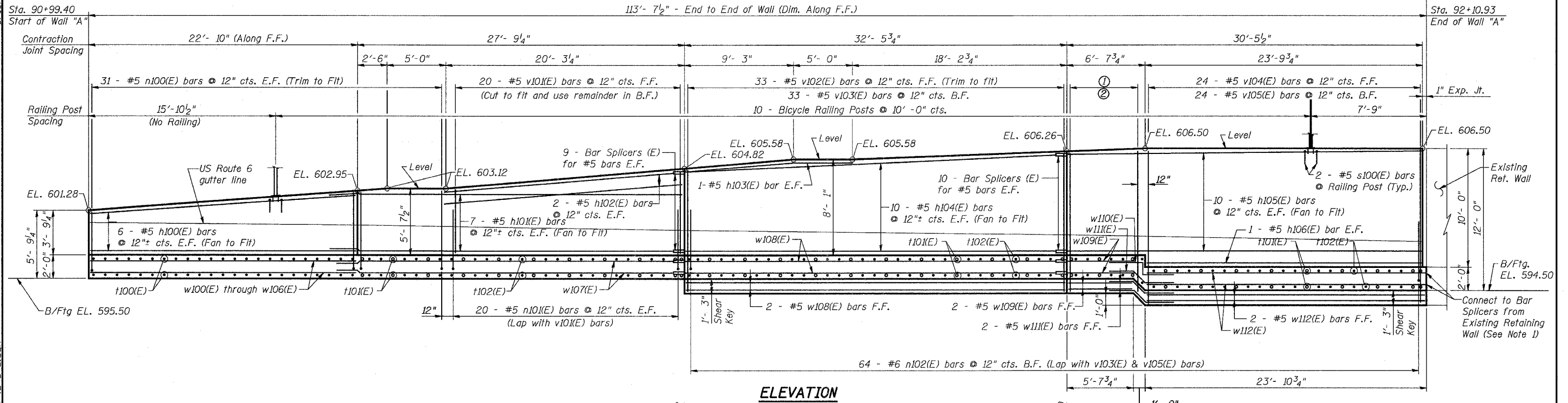
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	504
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT NO. 60E10	

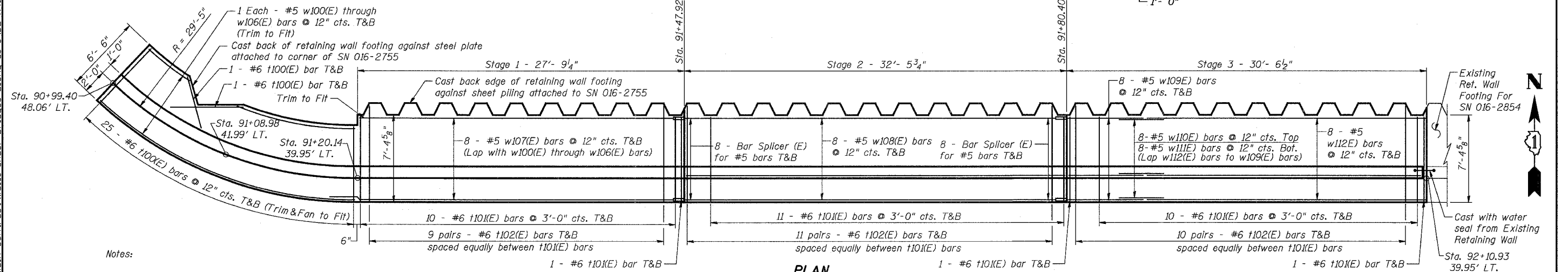
SHEET NO. 2
24 SHEETS

- ① 7 - #5 v102(E) bars @ 12" cts. F.F. (Trim to Fit)
- ② 7 - #5 v103(E) bars @ 12" cts. B.F. (Trim to Fit)

For Continuation See
Existing Retaining Wall
Sta. 92+10.93
End of Wall "A"



ELEVATION



PLAN

(Showing footing & shear key reinforcement)
(Wall reinforcement has been omitted for clarity)

Notes:

1. See sheet 23 for details of Bicycle Railing
2. The remainder of the bar splicers used in the existing retaining wall were given to I.D.O.T. for storage and will be provided by I.D.O.T. for this contract.
3. Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
4. Work this sheet with Sheet 3.
5. For Cross-sections, Bar bend diagrams, Bar Bill & Bill of Materials, see Sheet 3.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "A"
STA. 90+99.40 TO 92+10.93
US. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

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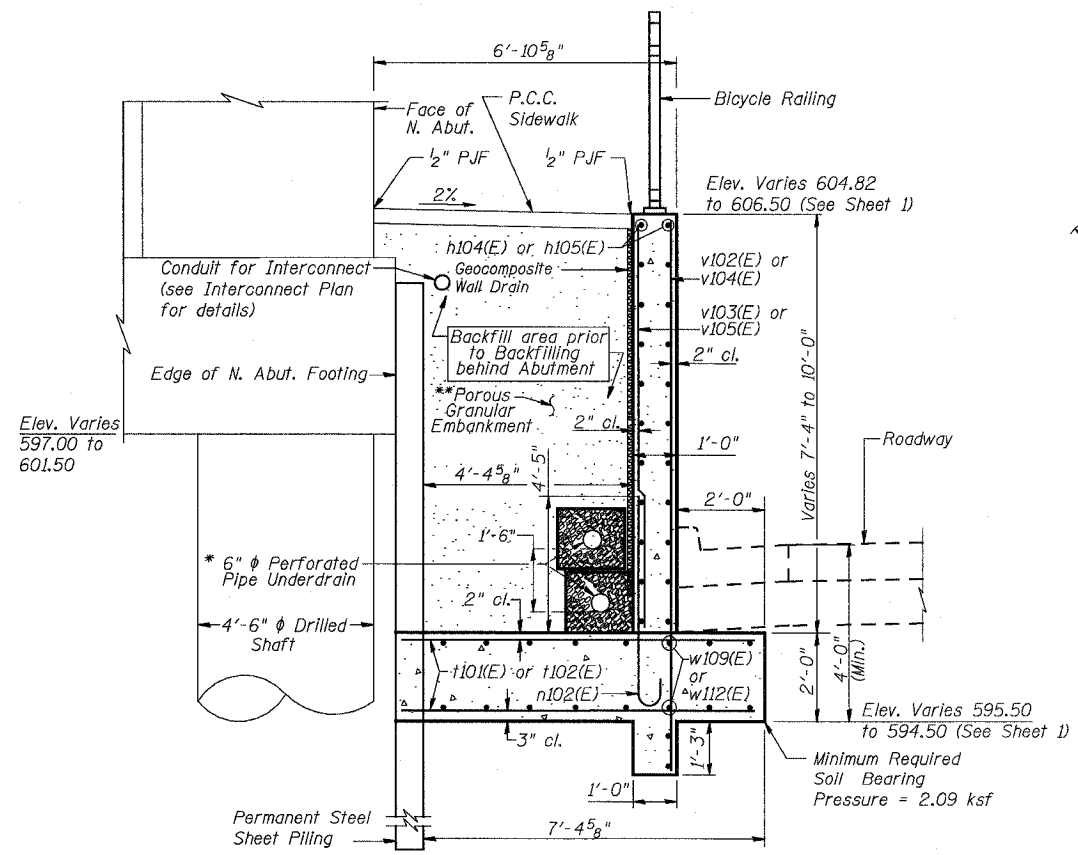
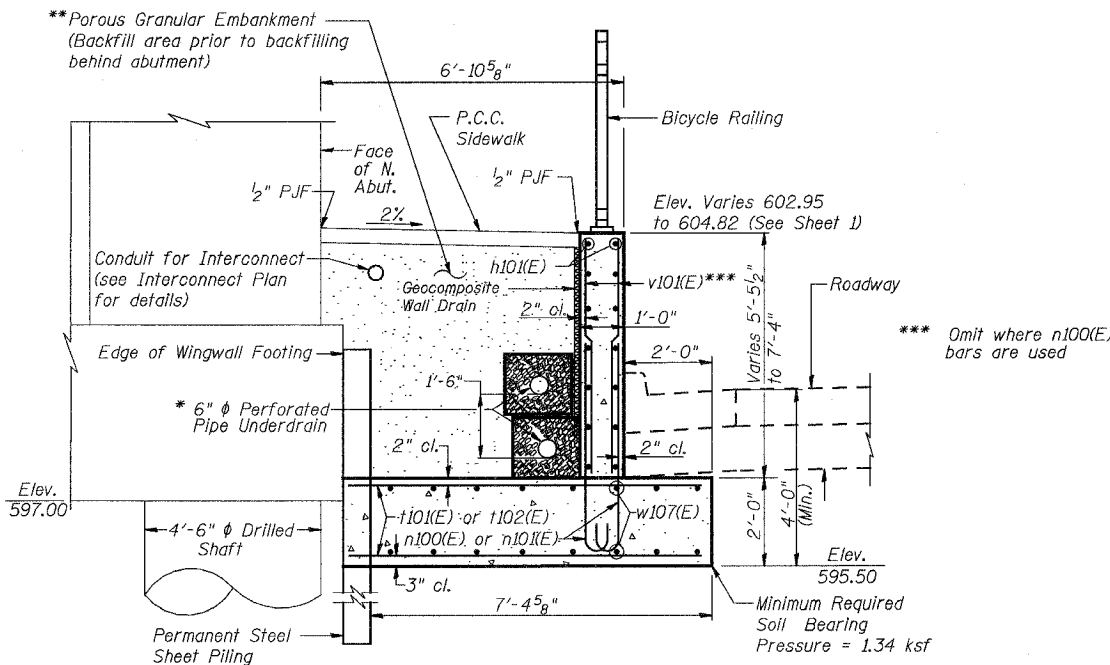
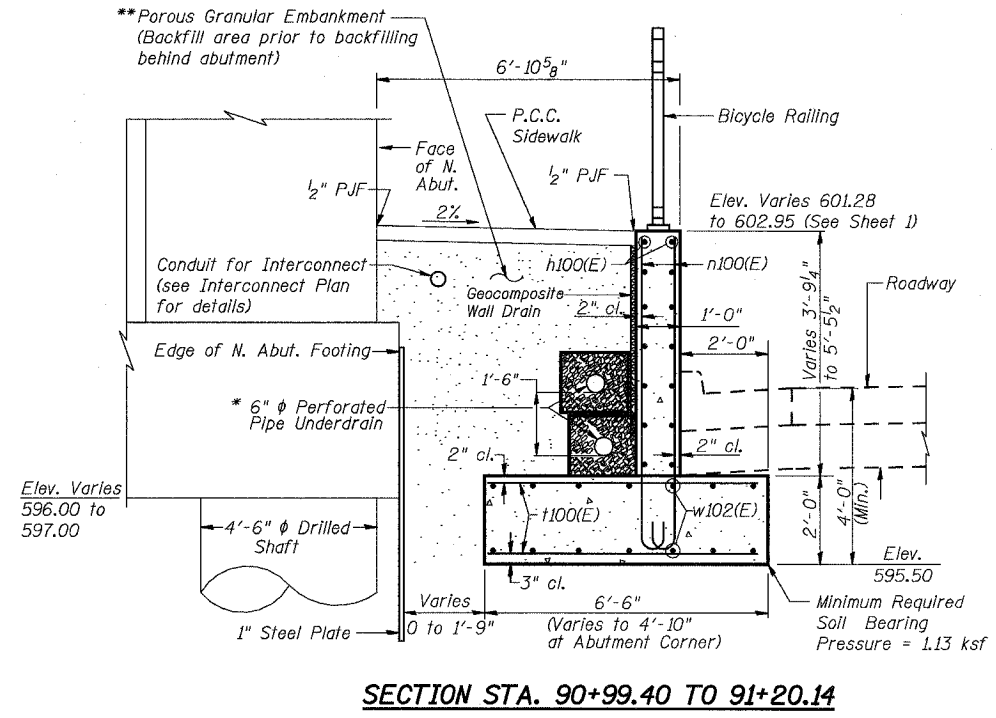
DESIGNED MAD
CHECKED JPB
DRAWN MAD
CHECKED DEY

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

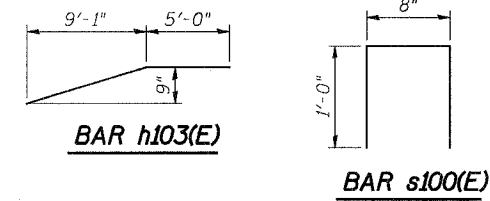
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	505
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

SHEET NO. 3
24 SHEETS



Bar	R	L
h100(E)	29'-3"	22'-4"
w100(E)	31'-3"	23'-11"
w101(E)	30'-3"	23'-1"
w102(E)	29'-3"	22'-4"
w103(E)	28'-3"	21'-7"
w104(E)	27'-3"	20'-10"
w105(E)	26'-3"	20'-0"
w106(E)	25'-3"	19'-3"

BARS h100(E) and w100(E) through w106(E)



**BILL OF MATERIAL
 RETAINING WALL "A"**

Bar	No.	Size	Length	Shape
h100(E)	12	#5	22'-4"	U
h101(E)	14	#5	29'-11"	U
h102(E)	4	#5	20'-2"	U
h103(E)	2	#5	14'-1"	U
h104(E)	20	#5	32'-2"	U
h105(E)	20	#5	30'-2"	U
h106(E)	2	#5	23'-6"	U
n100(E)	62	#5	7'-8"	U
n101(E)	40	#5	4'-8"	U
n102(E)	64	#6	6'-9"	U
s100(E)	18	#5	2'-8"	U
v100(E)	50	#6	6'-2"	U
v101(E)	68	#6	7'-0"	U
v102(E)	120	#6	8'-0"	U
v103(E)	20	#5	12'-4"	U
v104(E)	40	#5	11'-10"	U
v105(E)	40	#5	7'-0"	U
v106(E)	24	#5	12'-10"	U
v107(E)	24	#5	8'-0"	U
w100(E)	2	#5	23'-11"	U
w101(E)	2	#5	23'-1"	U
w102(E)	2	#5	22'-4"	U
w103(E)	2	#5	21'-7"	U
w104(E)	2	#5	20'-10"	U
w105(E)	2	#5	20'-0"	U
w106(E)	2	#5	19'-3"	U
w107(E)	16	#5	29'-11"	U
w108(E)	18	#5	32'-1"	U
w109(E)	18	#5	5'-4"	U
w110(E)	8	#5	6'-8"	U
w111(E)	10	#5	6'-1"	U
w112(E)	18	#5	23'-9"	U
Porous Granular Embankment		Cu. Yd.	152	
Structure Excavation		Cu. Yd.	115	
Non-Special Waste Disposal		Cu. Yd.	115.1	
Concrete Structures		Cu. Yd.	97.4	
Reinforcement Bars, Epoxy Coated		Pound	9840	
Pipe Underdrain For Structures 6"		Foot	226	
Bar Splicers		Each	70	
Geocomposite Wall Drain		Sq. Yd.	88	

- Notes:
1. Work this sheet with Sheet 2.
 2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
 3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "A" DETAILS
STA. 90+99.40 TO 92+10.93
 U.S. 6 MAINLINE RETAINING WALLS
 ALONG 159TH STREET
 SCALE: DATE: 2/21/2008

URS
 100 South Wacker Drive,
 Suite 500
 Chicago, IL 60606
 (312) 939-1000

DESIGNED MAD
 CHECKED JPB
 DRAWN MAD
 CHECKED DEY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	507
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

CONTRACT NO. 60E10

SHEET NO. 5
24 SHEETS

**BILL OF MATERIAL
RETAINING WALL "B"**

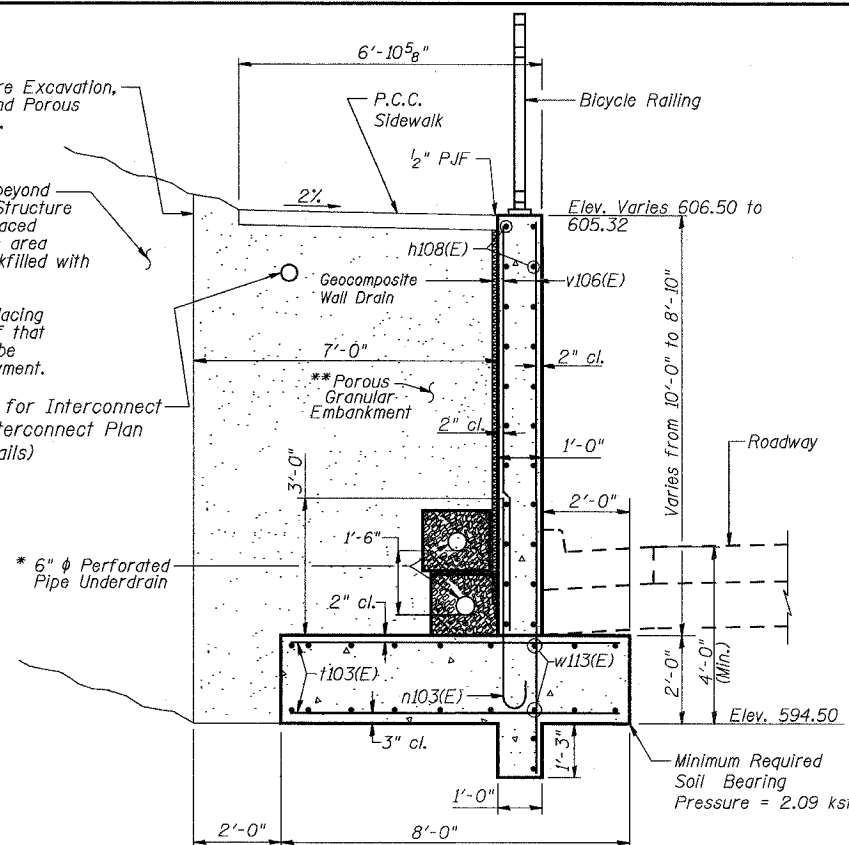
Bar	No.	Size	Length	Shape
h107(E)	40	#5	33'-9"	—
h108(E)	22	#5	34'-0"	—
h109(E)	2	#5	20'-9"	—
n103(E)	100	#6	5'-4"	U
s100(E)	16	#5	2'-8"	□
t101(E)	46	#6	7'-0"	—
t102(E)	88	#6	8'-0"	—
t103(E)	66	#6	7'-8"	—
v102(E)	45	#5	11'-10"	—
v106(E)	53	#5	21'-6"	—
v107(E)	45	#5	8'-10"	—
w110(E)	8	#5	6'-8"	—
w111(E)	10	#5	6'-1"	—
w113(E)	20	#5	30'-6"	—
w114(E)	36	#5	33'-9"	—
Porous Granular Embankment			Cu. Yd.	173
Structure Excavation			Cu. Yd.	297
Concrete Structures			Cu. Yd.	95.0
Reinforcement Bars, Epoxy Coated			Pound	9,560
Pipe Underdrain For Structures 6"			Foot	196
Bar Splicers			Each	16
Geocomposite Wall Drain			Sq. Yd.	96
Non-Special Waste Disposal			Cu. Yd.	297.3

Pay limit for Structure Excavation, Braced Excavation and Porous Granular Embankment.

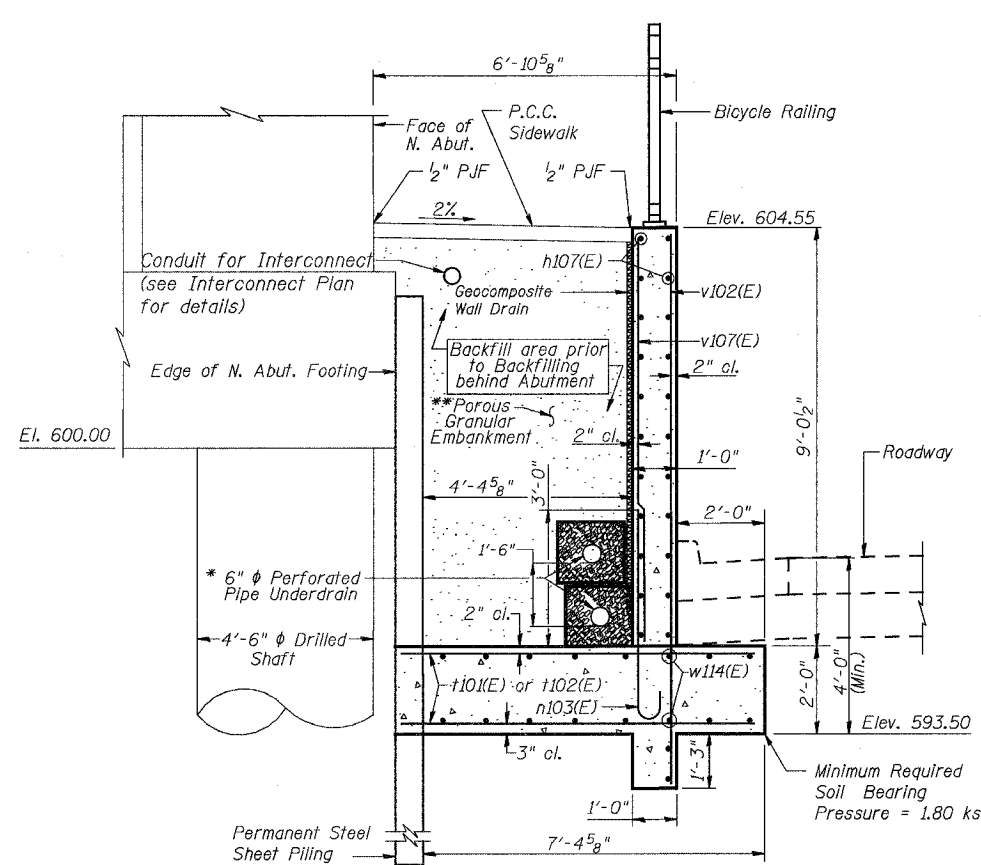
Over excavation beyond the pay limit of Structure Excavation or Braced Excavation. This area also shall be backfilled with Porous Granular Embankment. Furnishing and placing of this portion of that material will not be measured for payment.

Conduit for Interconnect (see Interconnect Plan for details)

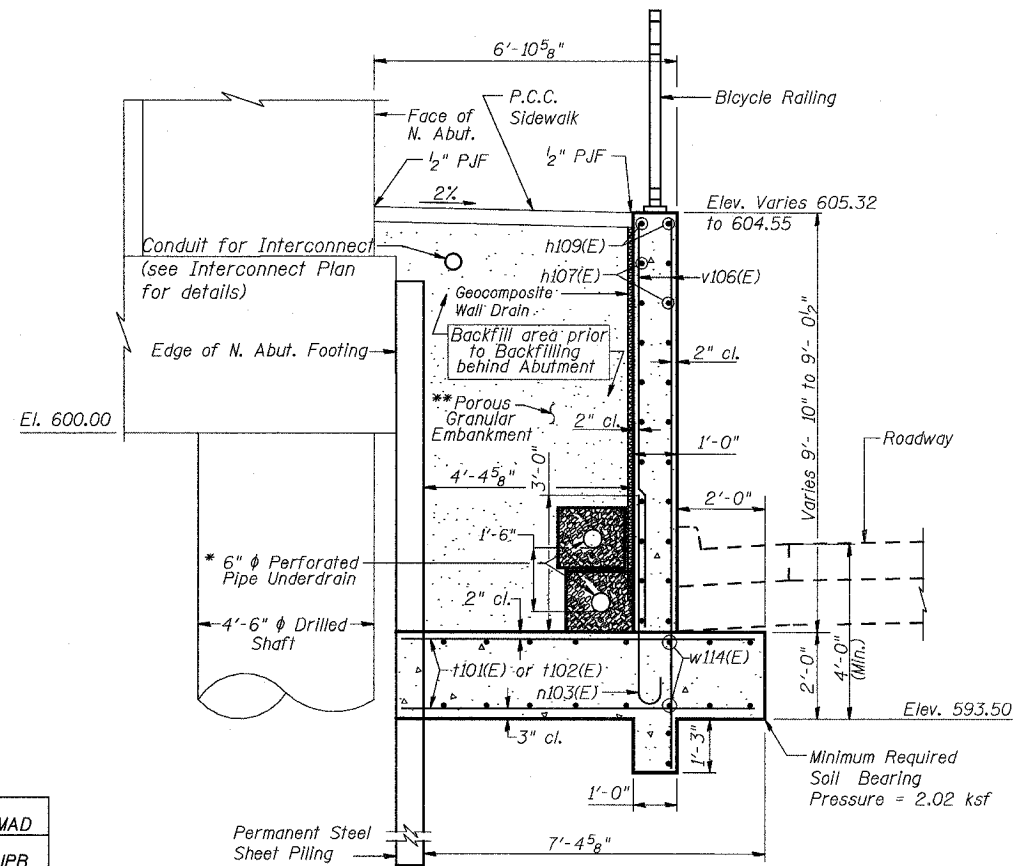
* 6" ϕ Perforated Pipe Underdrain



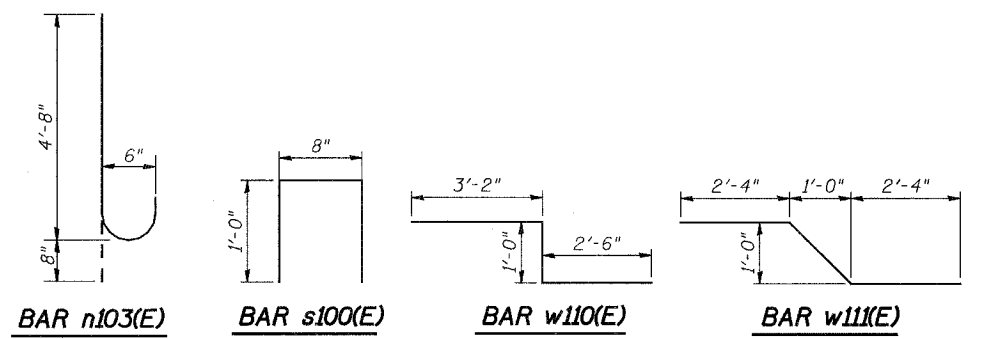
SECTION STA. 92+93.93 TO 93+25.80



SECTION STA. 93+46.55 TO 93+91.47



SECTION STA. 93+25.80 TO 93+46.55



- Notes:
1. Work this sheet with Sheet 4.
 2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
 3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

* See Miscellaneous Details For Retaining Walls A-M sheet For Pipe Underdrain Detail

DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
**RET. WALL "B" DETAILS
STA. 92+93.93 TO 93+91.47**
8.5 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

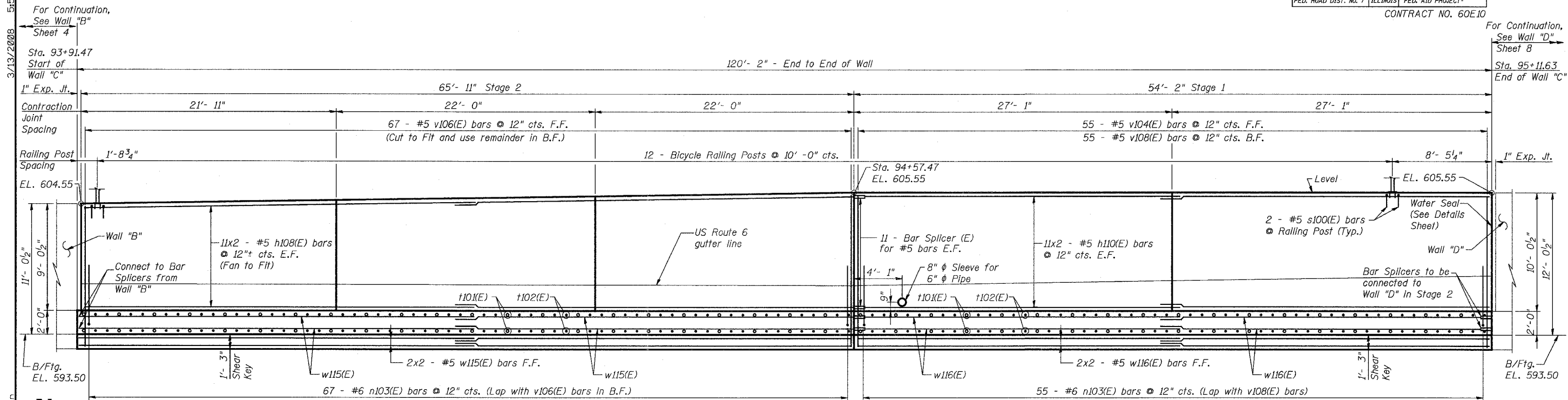
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

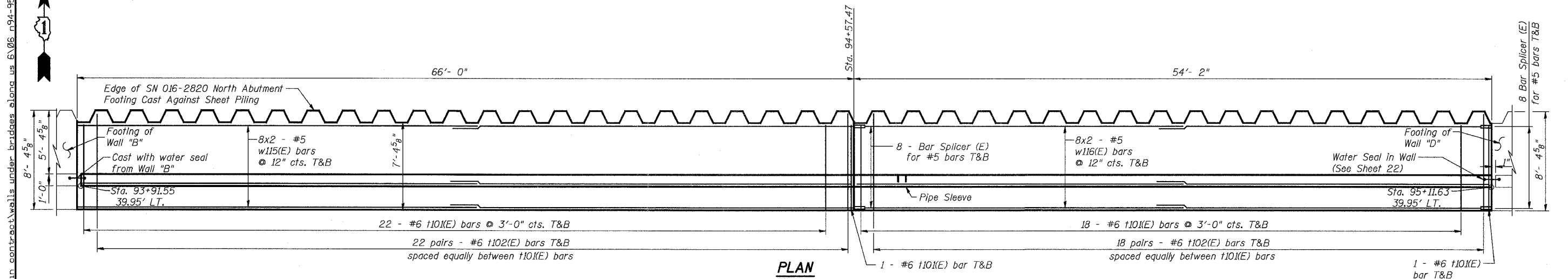
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	508
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT NO. 60E10	

SHEET NO. 6
24 SHEETS

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ELEVATION



PLAN

(Showing footing & shear key reinforcement)
(Wall reinforcement has been omitted for clarity)

- Notes:
- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
 - Work this sheet with Sheet 7.
 - For Cross-sections, Bar bend diagrams, Bar Bill & Bill of Materials, see Sheet 7.
 - For details of Bicycle Railing, see Sheet 23.
 - Cost of pipe sleeve is included with Concrete Structures.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

DESIGNED MAD
CHECKED JPB
DRAWN MDS
CHECKED DEY

REVISIONS	
NAME	DATE

URS
100 South Wacker Drive,
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ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "C"
STA. 93+91.47 TO 95+11.63
S.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

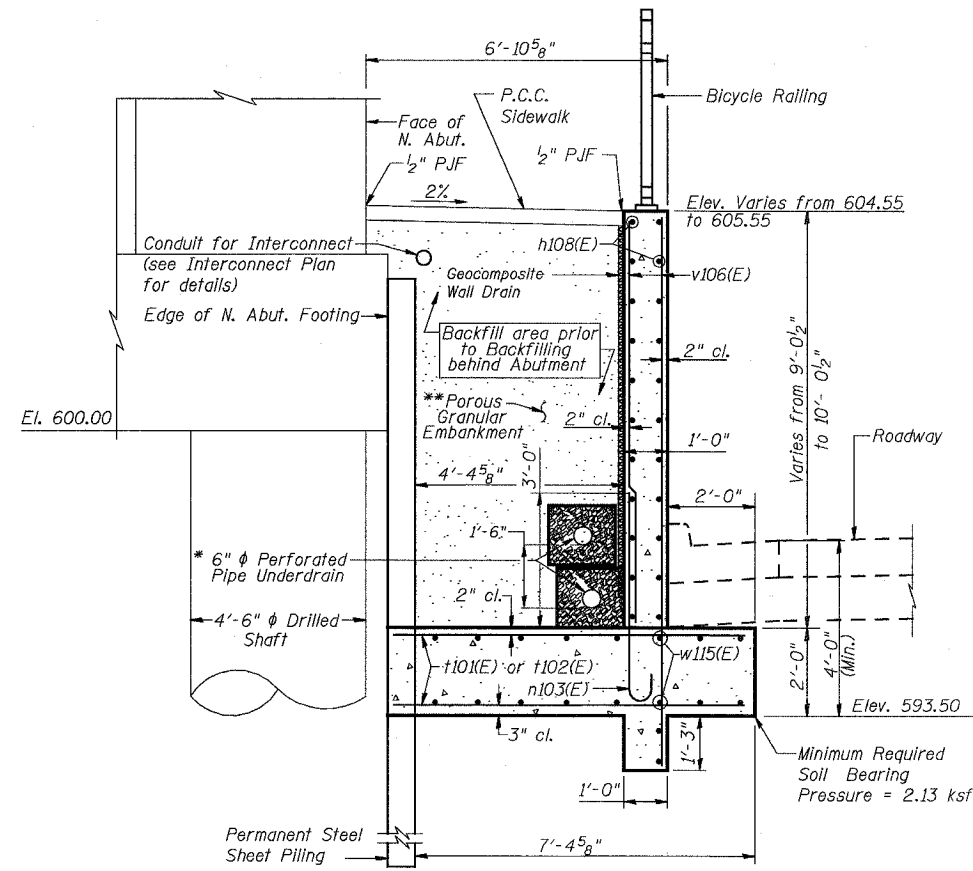
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	509
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. 60E10				

SHEET NO. 7
24 SHEETS

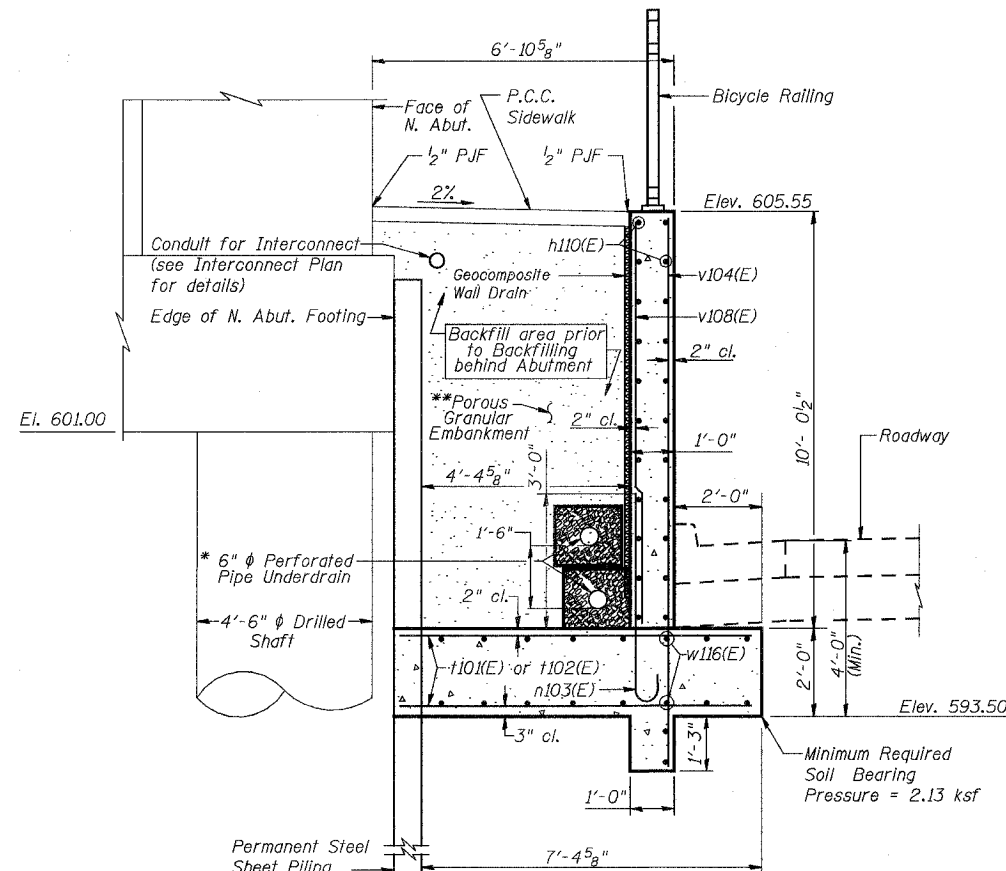
**BILL OF MATERIAL
RETAINING WALL "C"**

Bar	No.	Size	Length	Shape
h108(E)	44	#5	34'-0"	—
h110(E)	44	#5	28'-1"	—
n103(E)	122	#6	5'-4"	U
s100(E)	22	#5	2'-8"	□
t101(E)	84	#6	7'-0"	—
t102(E)	160	#6	8'-0"	—
v104(E)	55	#5	12'-10"	—
v106(E)	67	#5	21'-6"	—
v108(E)	55	#5	9'-10"	—
w115(E)	36	#5	34'-0"	—
w116(E)	36	#5	28'-1"	—
Porous Granular Embankment			Cu. Yd.	190
Structure Excavation			Cu. Yd.	202
Concrete Structures			Cu. Yd.	119.4
Reinforcement Bars, Epoxy Coated			Pound	11,830
Pipe Underdrain For Structures 6"			Foot	240
Bar Splicers			Each	54
Geocomposite Wall Drain			Sq. Yd.	125
Non-Special Waste Disposal			Cu. Yd.	55.0

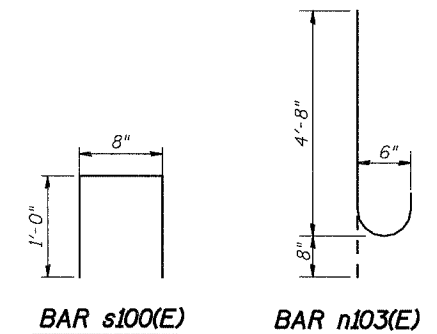


SECTION STA. 93+91.47 TO 94+57.47

* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



SECTION STA. 94+57.47 TO 95+11.63



Notes:

1. Work this sheet with Sheet 6.
2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "C" DETAILS
STA. 93+91.47 TO 95+11.63
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

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DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

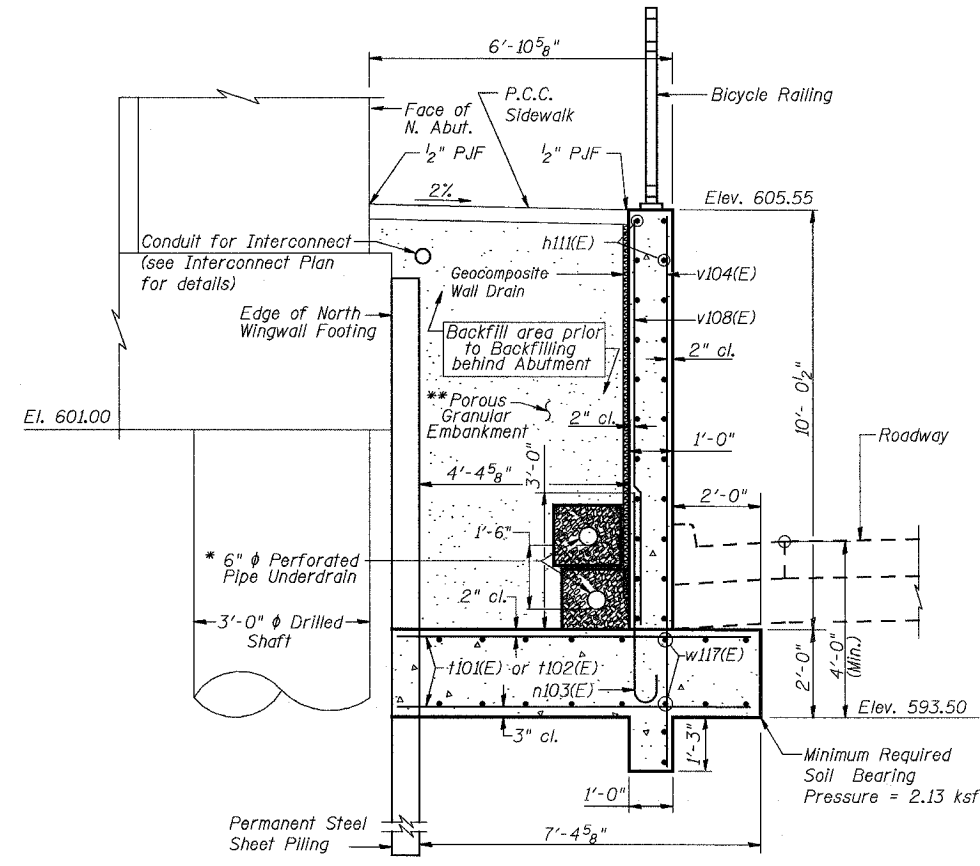
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	511
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60E10				

SHEET NO. 9
24 SHEETS

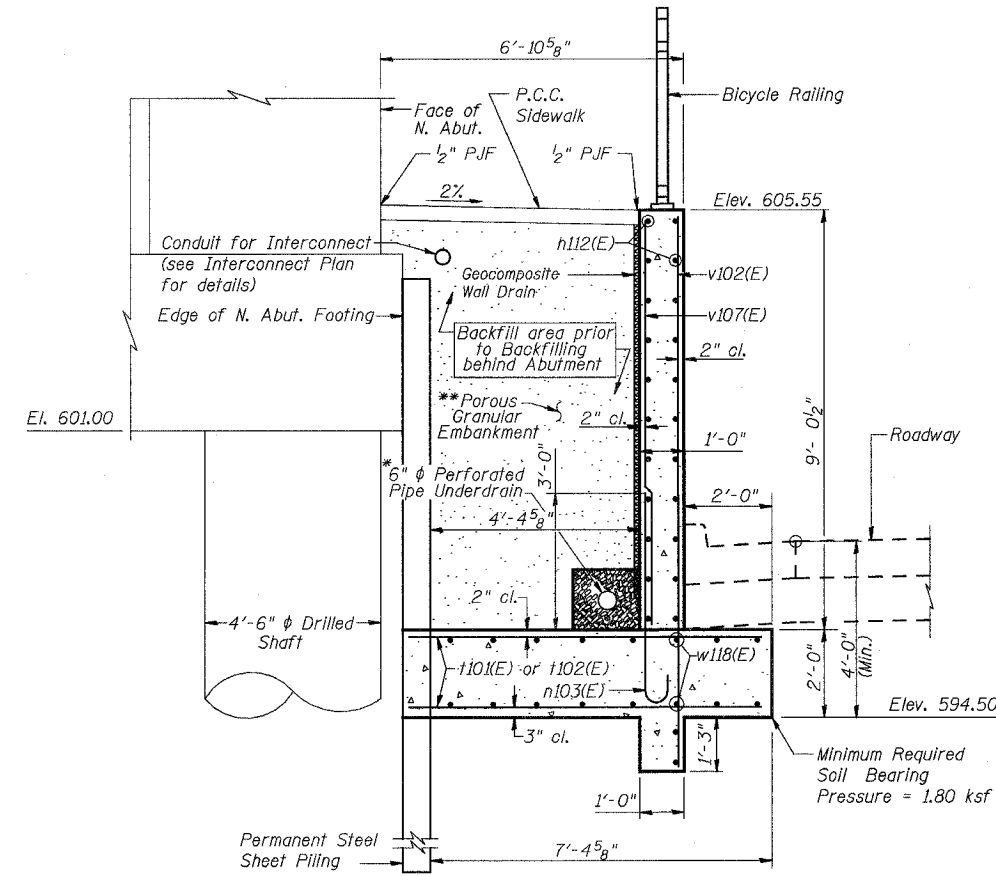
**BILL OF MATERIAL
RETAINING WALL "D"**

Bar	No.	Size	Length	Shape
h11(E)	44	#5	37'-2"	—
h12(E)	20	#5	30'-9"	—
n103(E)	102	#6	5'-4"	—
s100(E)	18	#5	2'-8"	⊏
t101(E)	70	#6	7'-0"	—
t102(E)	132	#6	8'-0"	—
v102(E)	29	#5	11'-10"	—
v104(E)	73	#5	12'-10"	—
v107(E)	29	#5	8'-10"	—
v108(E)	73	#5	9'-10"	—
w110(E)	8	#5	6'-8"	—
w111(E)	10	#5	6'-1"	—
w117(E)	36	#5	37'-2"	—
w118(E)	18	#5	27'-4"	—
Porous Granular Embankment			Cu. Yd.	159
Structure Excavation			Cu. Yd.	170
Concrete Structures			Cu. Yd.	101.5
Reinforcement Bars, Epoxy Coated			Pound	9,920
Pipe Underdrain For Structures 6"			Foot	173
Geocomposite Wall Drain			Sq. Yd.	105
Non-Special Waste Disposal			Cu. Yd.	170.2

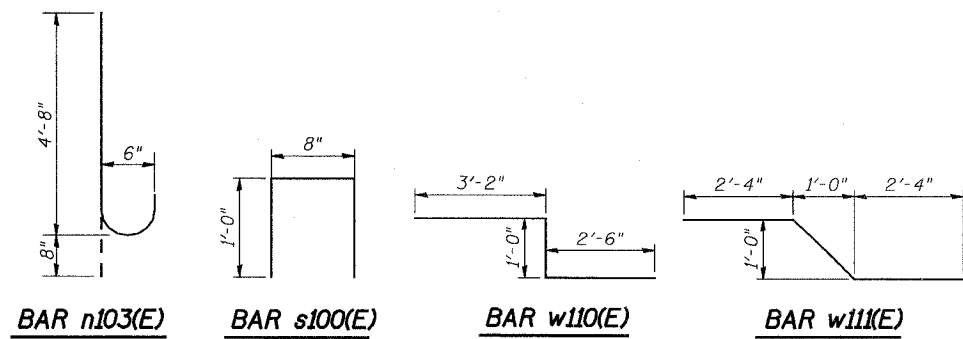


SECTION STA. 95+11.63 TO 95+84.06

* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



SECTION STA. 95+84.06 TO 96+12.72



Notes:

1. Work this sheet with Sheet 8.
2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

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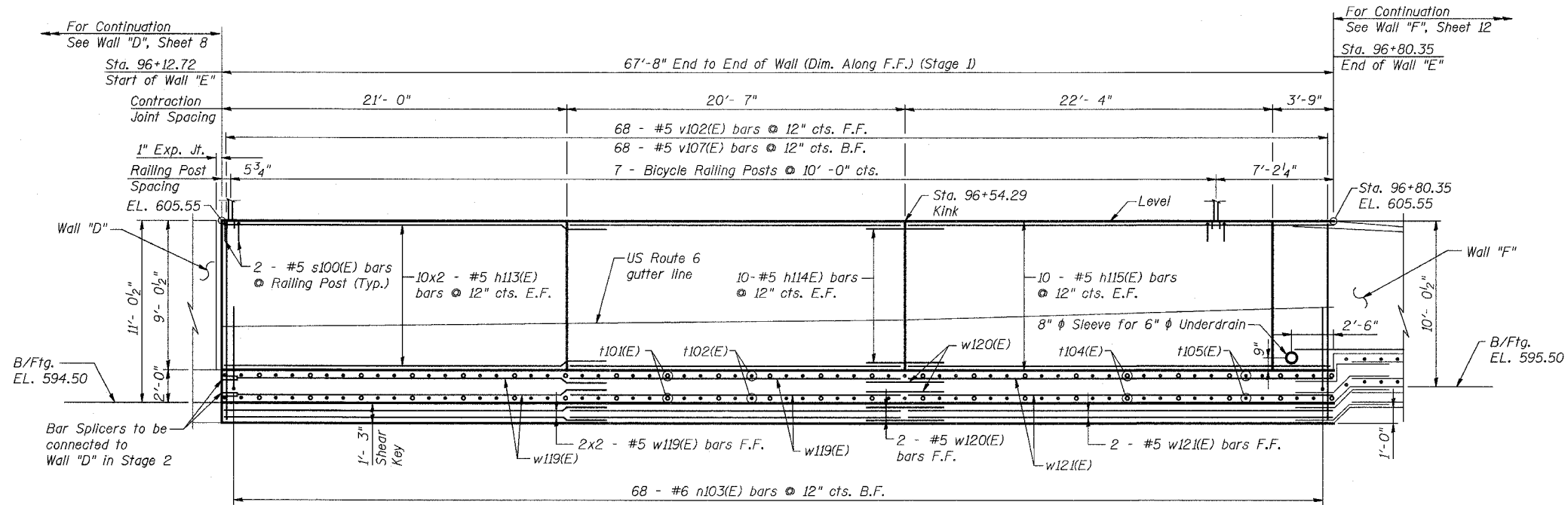
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "D" DETAILS
STA. 95+11.63 TO 96+12.72
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

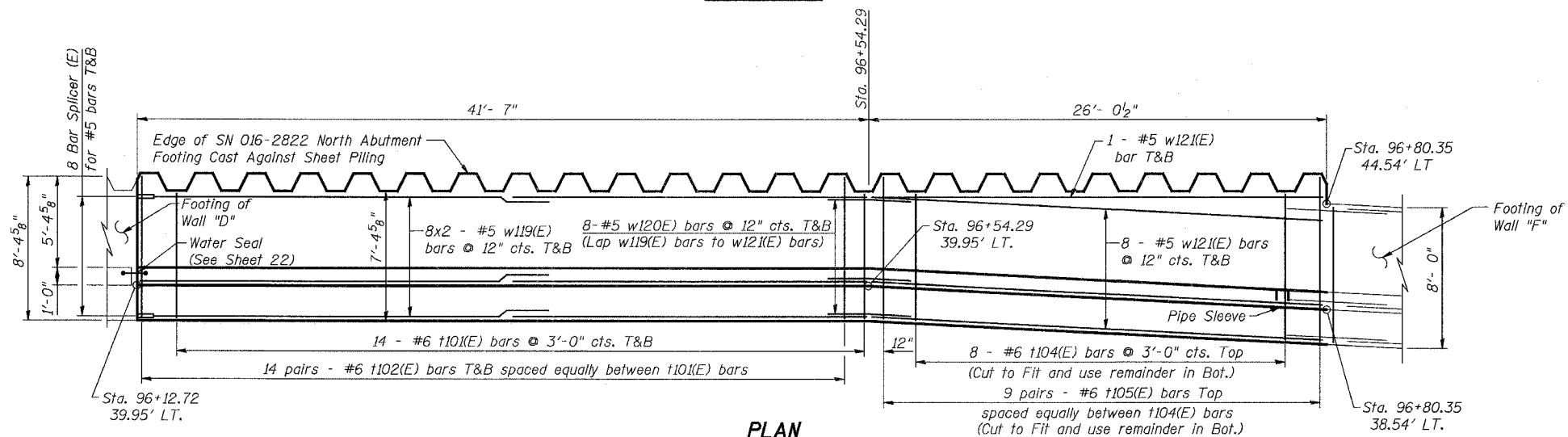
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	512
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. 60E10				

SHEET NO. 10
24 SHEETS



ELEVATION



PLAN

(Showing footing & shear key reinforcement)
(Wall reinforcement has been omitted for clarity)

Notes:

- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
- Work this sheet with Sheet 11.
- For Cross-sections, Bar bend diagrams, Bar Bill & Bill of Materials, see Sheet 11.
- For details of Bicycle Railing, see Sheet 23.
- Cost of pipe sleeve is included with Concrete Structures.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

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REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "E"
STA. 96+12.72 TO 96+80.35
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

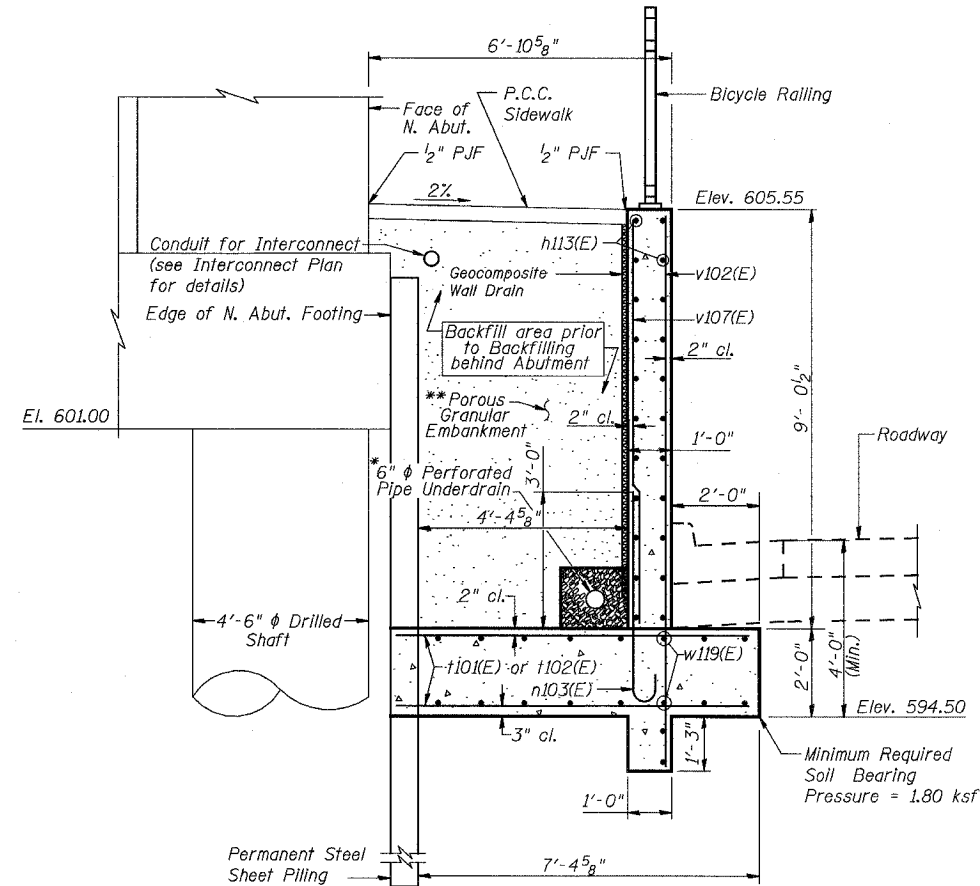
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	513
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

SHEET NO. 11
24 SHEETS

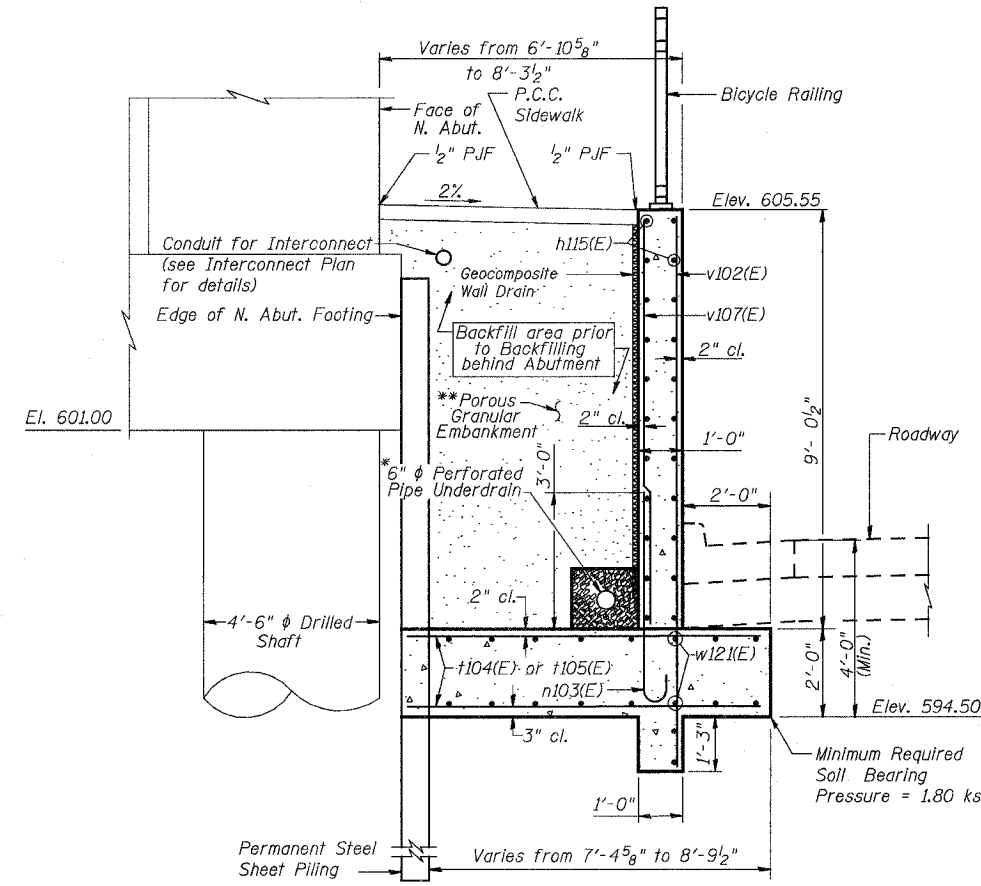
**BILL OF MATERIAL
RETAINING WALL "E"**

Bar	No.	Size	Length	Shape
h113(E)	40	#5	21'-9"	—
h114(E)	20	#5	4'-8"	—
h115(E)	20	#5	25'-9"	—
n103(E)	68	#6	5'-4"	—
s100(E)	12	#5	2'-8"	—
t101(E)	28	#6	7'-0"	—
t102(E)	56	#6	8'-0"	—
t104(E)	8	#6	15'-5"	—
t105(E)	18	#6	17'-5"	—
v102(E)	68	#5	11'-10"	—
v107(E)	68	#5	8'-10"	—
w119(E)	36	#5	21'-9"	—
w120(E)	18	#5	4'-8"	—
w121(E)	20	#5	25'-9"	—
Porous Granular Embankment		Cu. Yd.	116	
Structure Excavation		Cu. Yd.	105	
Concrete Structures		Cu. Yd.	66.7	
Reinforcement Bars, Epoxy Coated		Pound	6,660	
Pipe Underdrain For Structures 6"		Foot	68	
Bar Splicers		Each	16	
Geocomposite Wall Drain		Sq. Yd.	72	
Non-Special Waste Disposal		Cu. Yd.	105.0	



SECTION STA. 96+12.72 TO 96+54.29

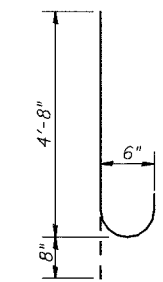
* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



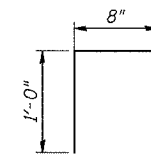
SECTION STA. 96+54.29 TO 96+80.35

Notes:

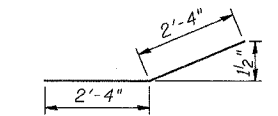
1. Work this sheet with Sheet 10.
2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.



BAR n103(E)



BAR s100(E)



BARs h114(E) & w120(E)

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DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

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REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "E" DETAILS
STA. 96+12.72 TO 96+80.35
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

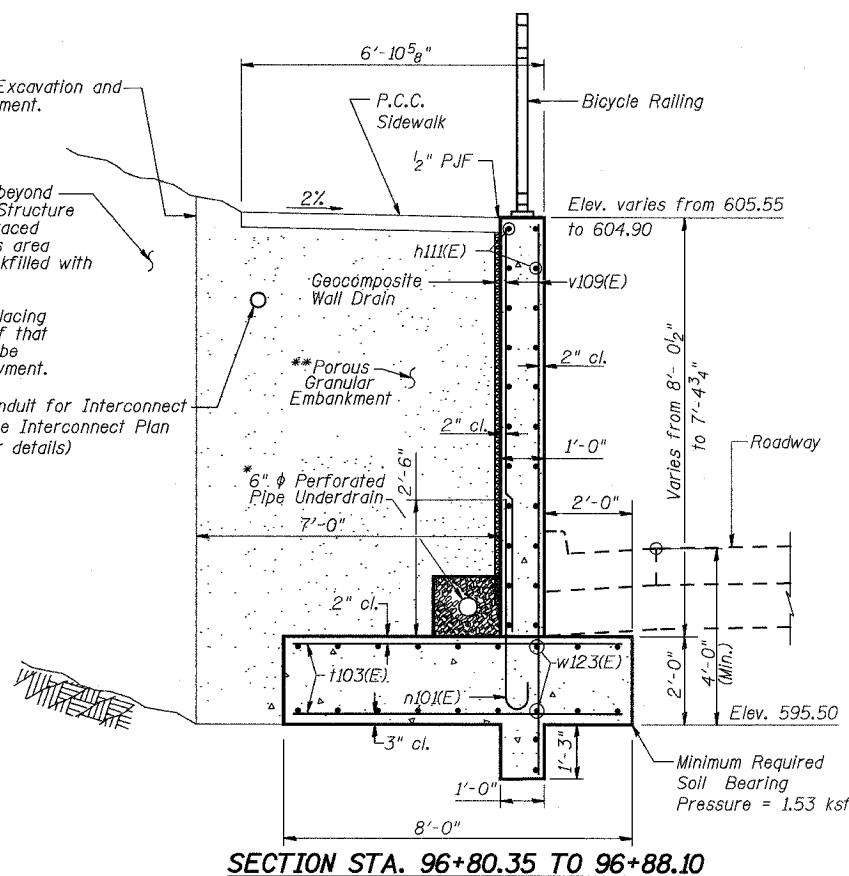
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	515
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. 60E10				

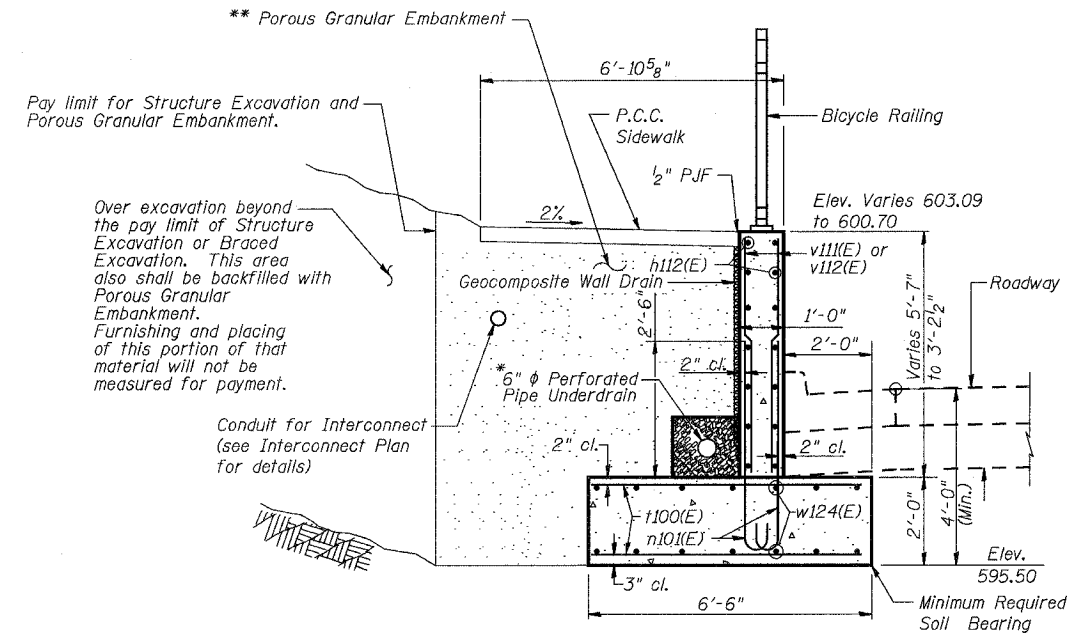
SHEET NO. 13
24 SHEETS

**BILL OF MATERIAL
RETAINING WALL "F"**

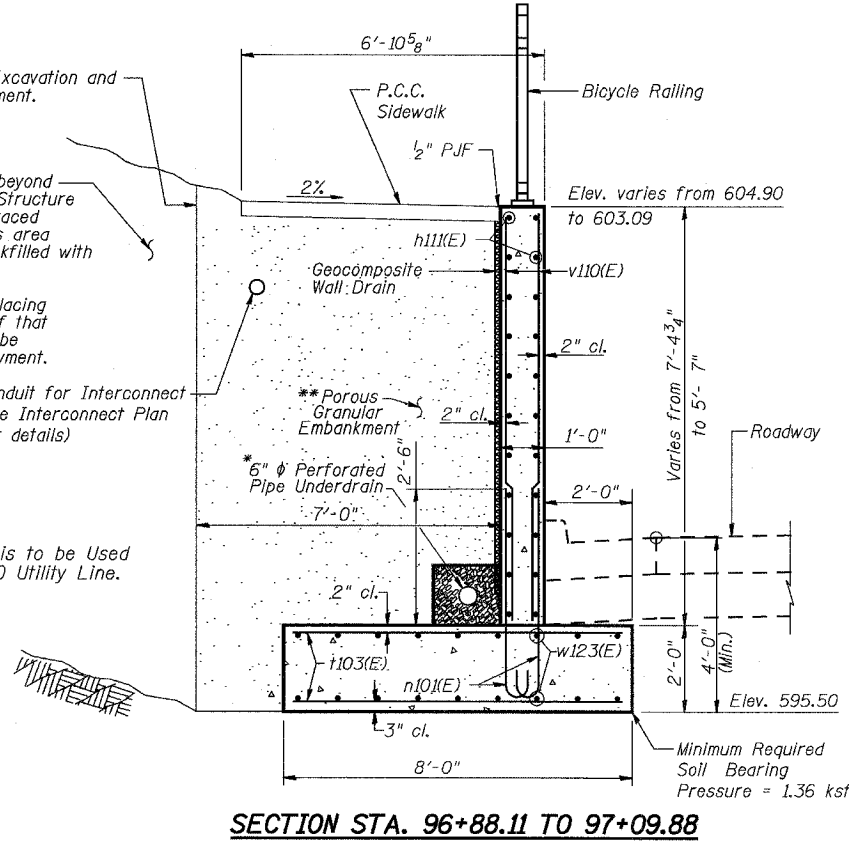
Bar	No.	Size	Length	Shape
h11(E)	18	#5	37'-1"	—
h112(E)	12	#5	30'-9"	—
n10(E)	121	#5	4'-9"	⌋
s100(E)	10	#5	2'-8"	⌋
t100(E)	68	#6	6'-2"	—
t103(E)	60	#6	7'-8"	—
v109(E)	8	#5	18'-0"	—
v110(E)	22	#5	12'-7"	—
v111(E)	10	#5	5'-5"	—
v112(E)	30	#5	8'-5"	—
w110(E)	9	#5	6'-8"	⌋
w111(E)	11	#5	6'-1"	⌋
w122(E)	2	#5	6'-7"	—
w123(E)	18	#5	28'-4"	—
w124(E)	14	#5	36'-0"	—
Porous Granular Embankment		Cu. Yd.	79	
Structure Excavation		Cu. Yd.	314	
Concrete Structures		Cu. Yd.	47.4	
Reinforcement Bars, Epoxy Coated		Pound	5,000	
Pipe Underdrain For Structures 6"		Foot	63	
Geocomposite Wall Drain		Sq. Yd.	37	



SECTION STA. 96+80.35 TO 96+88.10

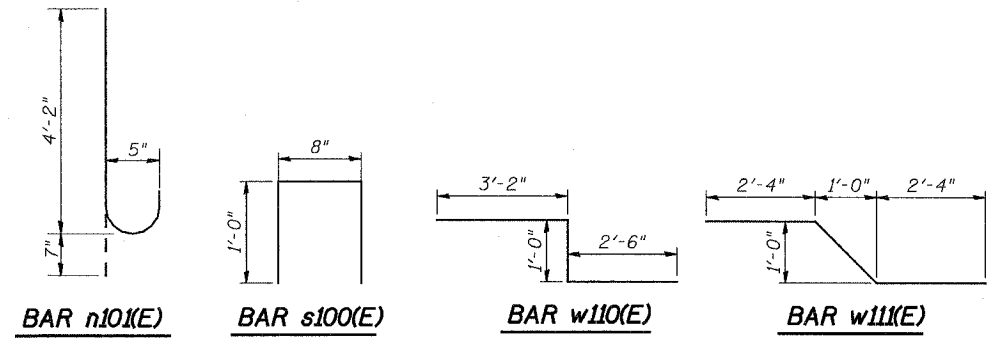


SECTION STA. 97+09.88 TO 97+43.68



SECTION STA. 96+88.11 TO 97+09.88

* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



- Notes:
1. Work this sheet with Sheet 12.
 2. ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
 3. Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "F" DETAILS
STA. 96+80.35 TO 97+43.68
S.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

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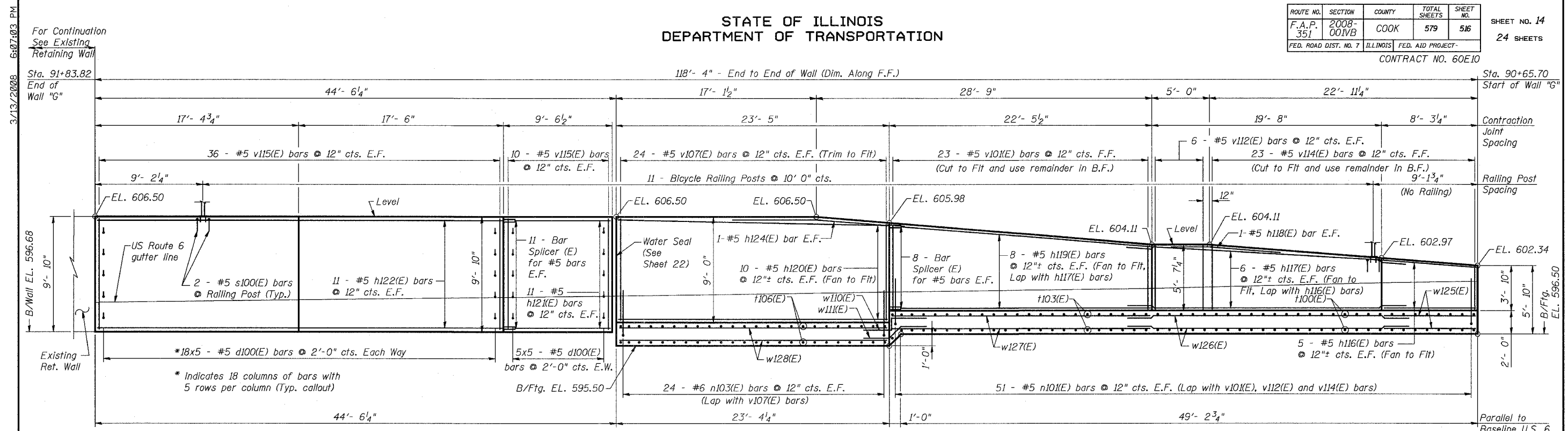
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DRAWN	MDS
CHECKED	DEY

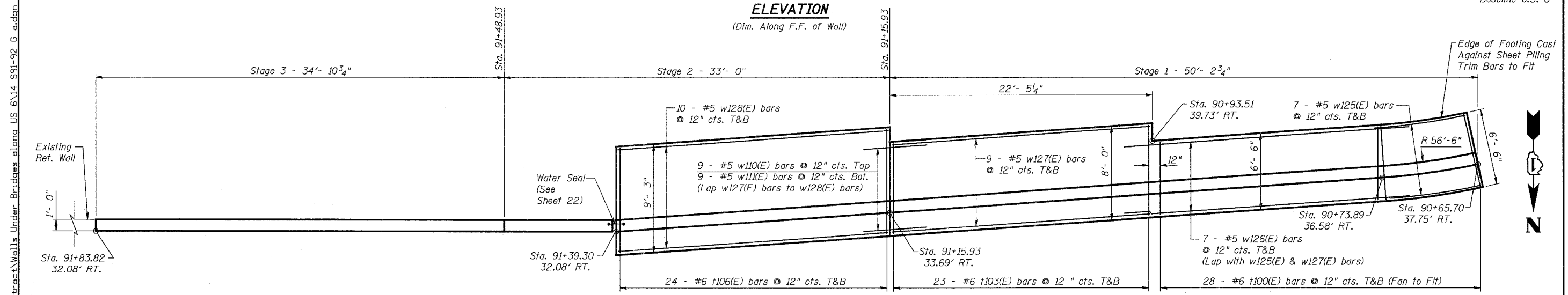
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT NO. 60E10	

SHEET NO. 14
24 SHEETS



ELEVATION
(Dim. Along F.F. of Wall)



PLAN
(Showing footing reinforcement)
(Wall reinforcement has been omitted for clarity)

- Notes:
- The remainder of the bar splicers used in the existing retaining wall were given to I.D.O.T. for storage and will be provided by I.D.O.T. for this contract.
 - Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
 - Work this sheet with Sheet 15.
 - Contractor to place contraction joints at location of existing construction joints.
 - For details of Bicycle Railing, see Sheet 23.
 - Bars indicated thus: 2x5 - #5 etc. indicates 2 lines of bars with 5 lengths of bar per line.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom
E.W. = Each Way

DESIGNED MAD
CHECKED JPB
DRAWN MDS
CHECKED DEY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "G"
STA. 90+65.70 TO 91+83.82
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

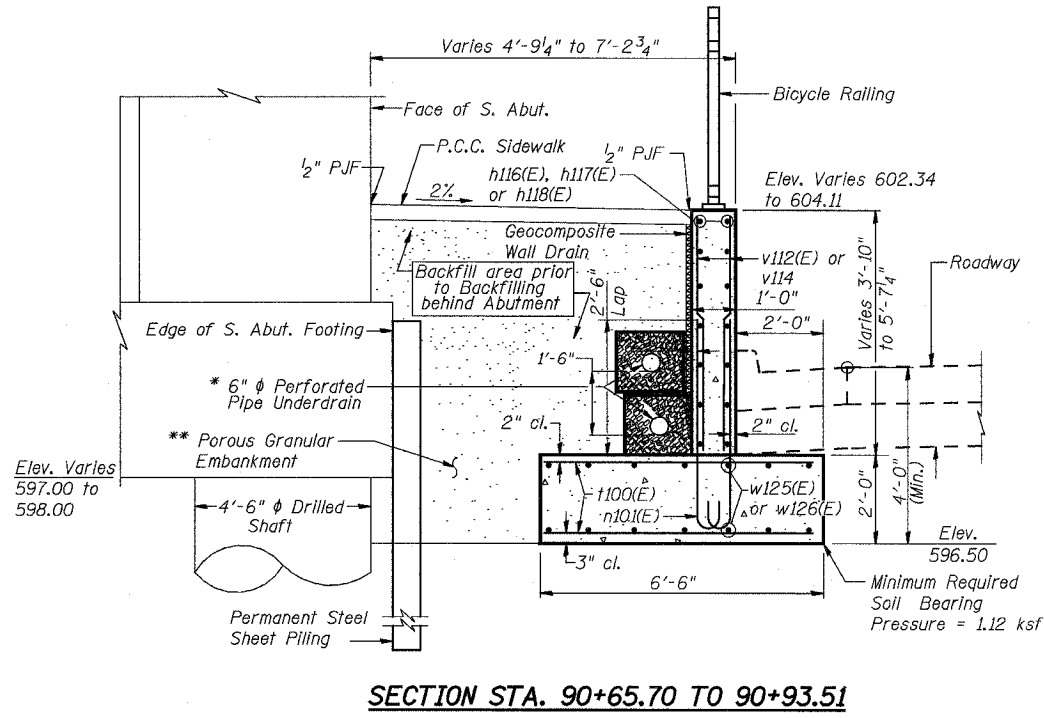
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	517
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60E10

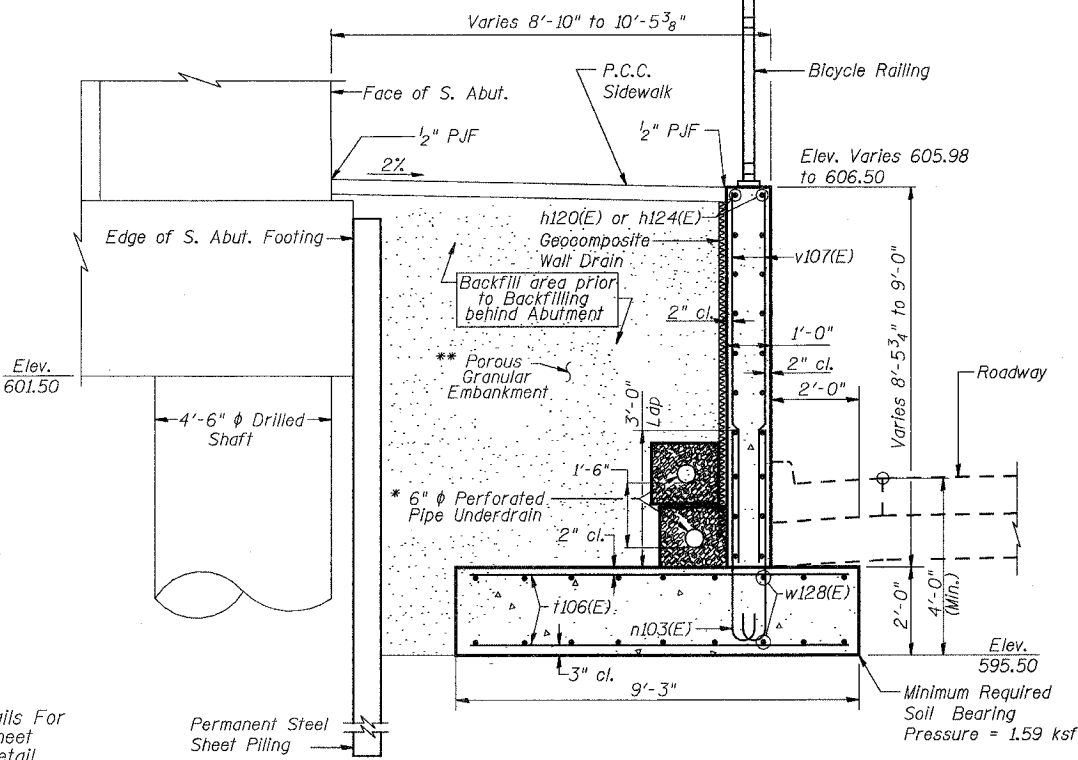
SHEET NO. 15
24 SHEETS

**BILL OF MATERIAL
RETAINING WALL "G"**

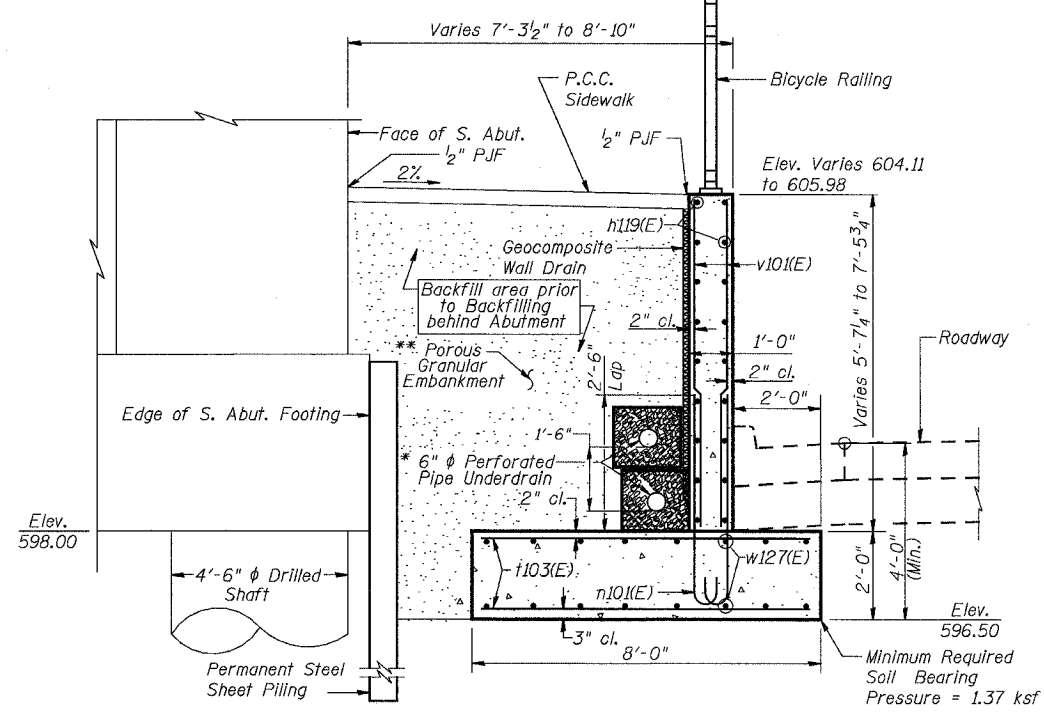
Bar	No.	Size	Length	Shape
d100(E)	115	#5	2'-1"	
h116(E)	10	#5	8'-0"	
h117(E)	12	#5	24'-4"	
h118(E)	2	#5	9'-4"	
h119(E)	16	#5	22'-0"	
h120(E)	20	#5	23'-0"	
h121(E)	22	#5	9'-2"	
h122(E)	22	#5	34'-6"	
h124(E)	2	#5	13'-3"	
n101(E)	102	#5	4'-9"	
n103(E)	48	#6	5'-4"	
s100(E)	22	#5	2'-8"	
h100(E)	56	#6	6'-2"	
h103(E)	46	#6	7'-8"	
h106(E)	48	#6	8'-11"	
v101(E)	23	#5	12'-6"	
v107(E)	48	#5	8'-10"	
v112(E)	12	#5	5'-5"	
v114(E)	23	#5	9'-0"	
v115(E)	92	#5	9'-6"	
w110(E)	9	#5	6'-8"	
w111(E)	9	#5	6'-1"	
w125(E)	14	#5	8'-0"	
w126(E)	14	#5	24'-4"	
w127(E)	18	#5	22'-2"	
w128(E)	20	#5	23'-2"	
Porous Granular Embankment		Cu. Yd.	110	
Structure Excavation		Cu. Yd.	26	
Concrete Structures		Cu. Yd.	77.6	
Reinforcement Bars, Epoxy Coated		Pound	8,610	
Pipe Underdrain For Structures 6"		Foot	134	
Bar Splicers		Each	38	
Geocomposite Wall Drain		Sq. Yd.	51	
Non-Special Waste Disposal		Cu. Yd.	4.9	



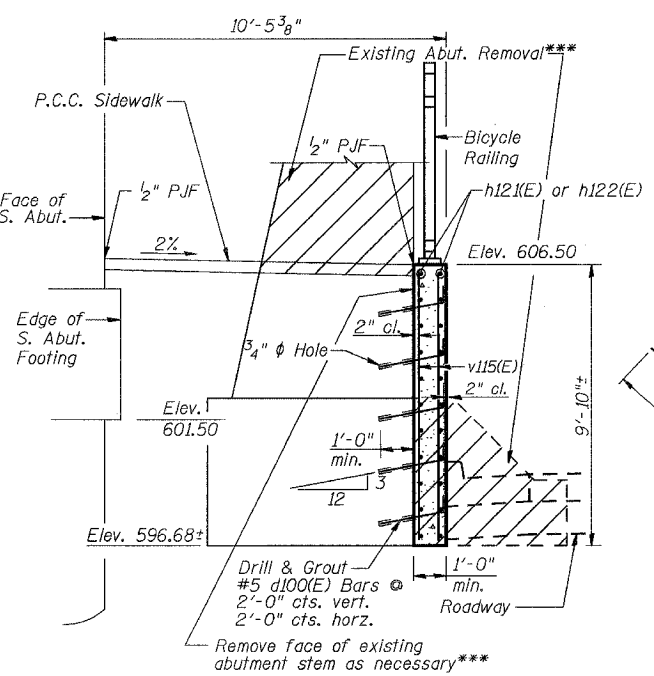
SECTION STA. 90+65.70 TO 90+93.51



SECTION STA. 91+15.93 TO 91+39.30

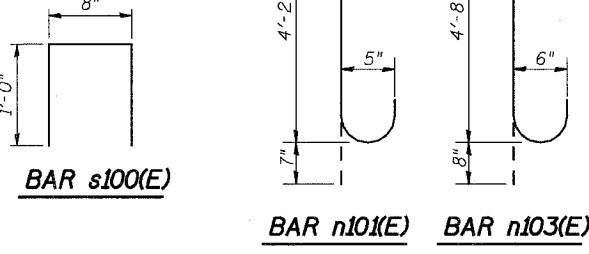
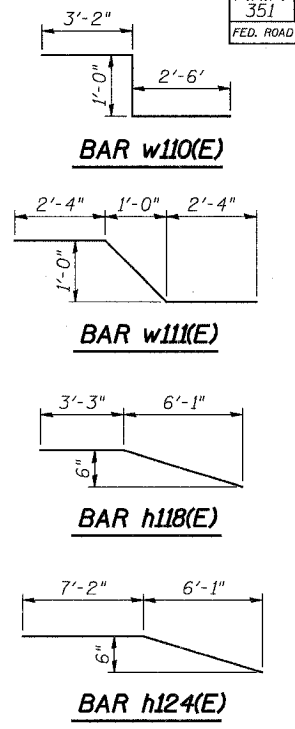


SECTION STA. 90+93.51 TO 91+15.93



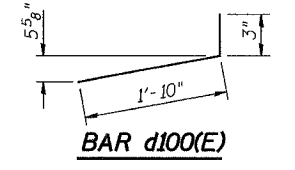
SECTION STA. 91+39.30 TO 91+83.82

*** Paid for as "Removal of Existing Structures No. 1" See SN 016-2755 plans for quantities.



Bar	R	L
h116(E)	56'-6"	8'-0"
w125(E)	56'-6"	8'-0"

BARS h116(E) and w125(E)



BAR d100(E)

- Notes:
- Work this sheet with Sheet 14.
 - ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
 - Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

URS
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REVISIONS	
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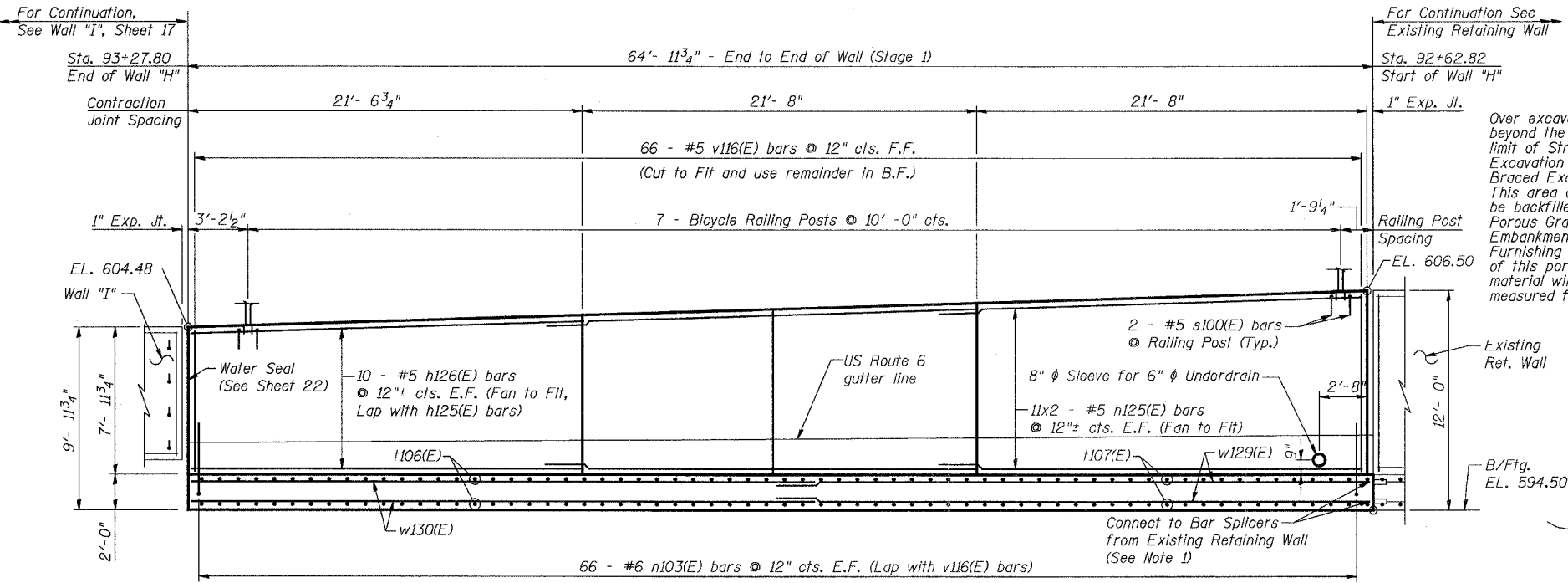
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RET. WALL "G" DETAILS
STA. 90+65.70 TO 91+83.82
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

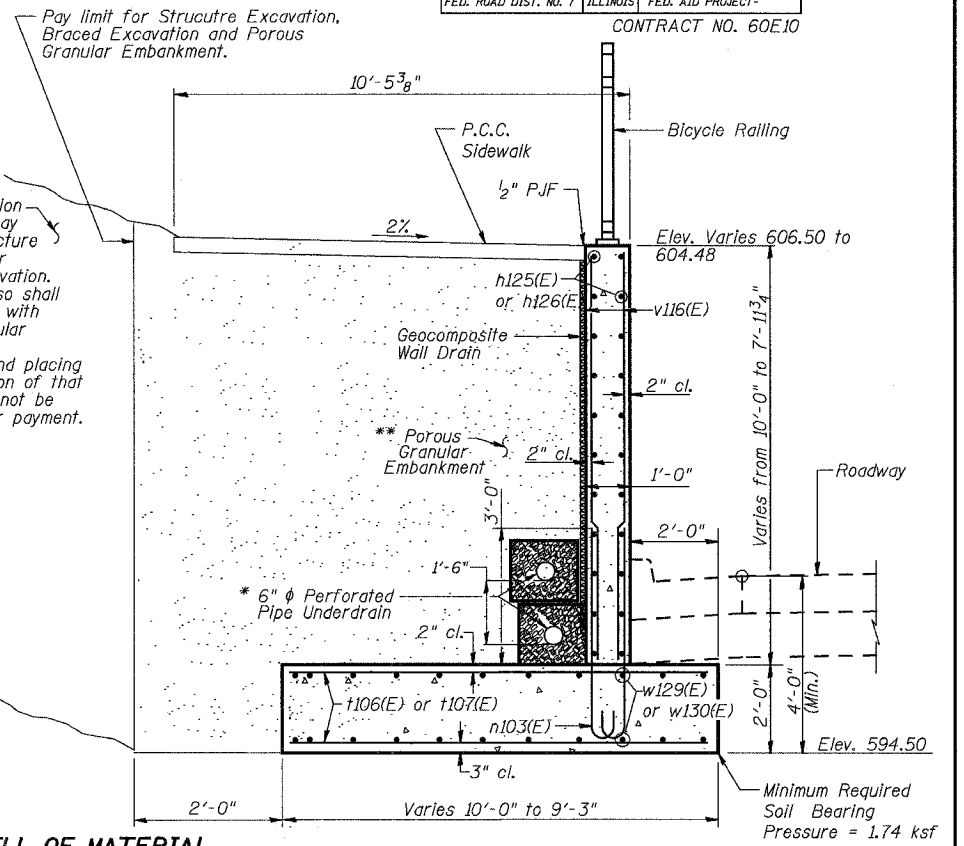
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	518
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
24 SHEETS

CONTRACT NO. 60E10



ELEVATION

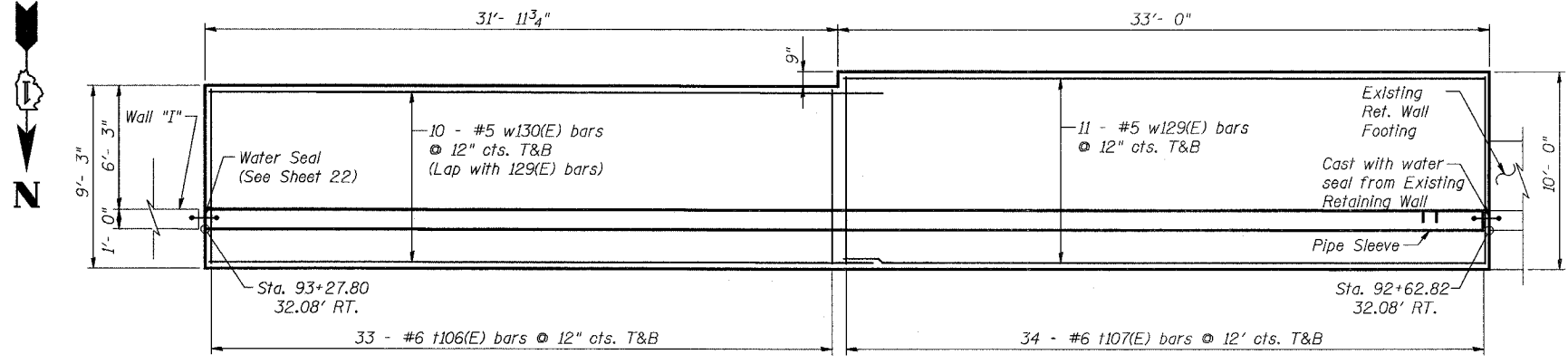
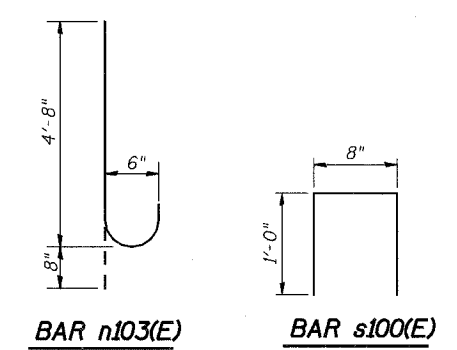


BILL OF MATERIAL
RETAINING WALL "H"

Bar	No.	Size	Length	Shape
h125(E)	44	#5	23'- 8"	—
h126(E)	20	#5	21'- 5"	—
n103(E)	132	#6	5'- 4"	U
s100(E)	12	#5	2'- 8"	□
h106(E)	66	#6	8'- 11"	—
h107(E)	68	#6	9'- 8"	—
v116(E)	66	#5	17'- 6"	—
w129(E)	22	#5	32'- 8"	—
w130(E)	20	#5	34'- 2"	—
Porous Granular Embankment			Cu. Yd.	180
Structure Excavation			Cu. Yd.	297
Concrete Structures			Cu. Yd.	68.0
Reinforcement Bars, Epoxy Coated			Pound	7,170
Pipe Underdrain For Structures 6"			Foot	130
Geocomposite Wall Drain			Sq. Yd.	62

SECTION STA. 92+62.82 TO 93+27.80

* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



PLAN

(Showing Footing reinforcement)
(Wall reinforcement has been omitted for clarity)

Notes:

- The remainder of the bar splacers used in the Existing Retaining Wall were given to I.D.O.T. for storage and will be provided by I.D.O.T. for this contract.
- Minimum Bar Laps are as follows:
#5 = 2'- 2"
#6 = 2'- 7"
- For details of Bicycle Railing, see Sheet 23.
- Bars Indicated thus: 11x2 - #5 etc. indicates 11 lines of bars with 2 lengths of bars per line.
- Cost of pipe sleeve is included with Concrete Structures.
- ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
- Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "H"
STA. 92+62.82 TO 93+27.80
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

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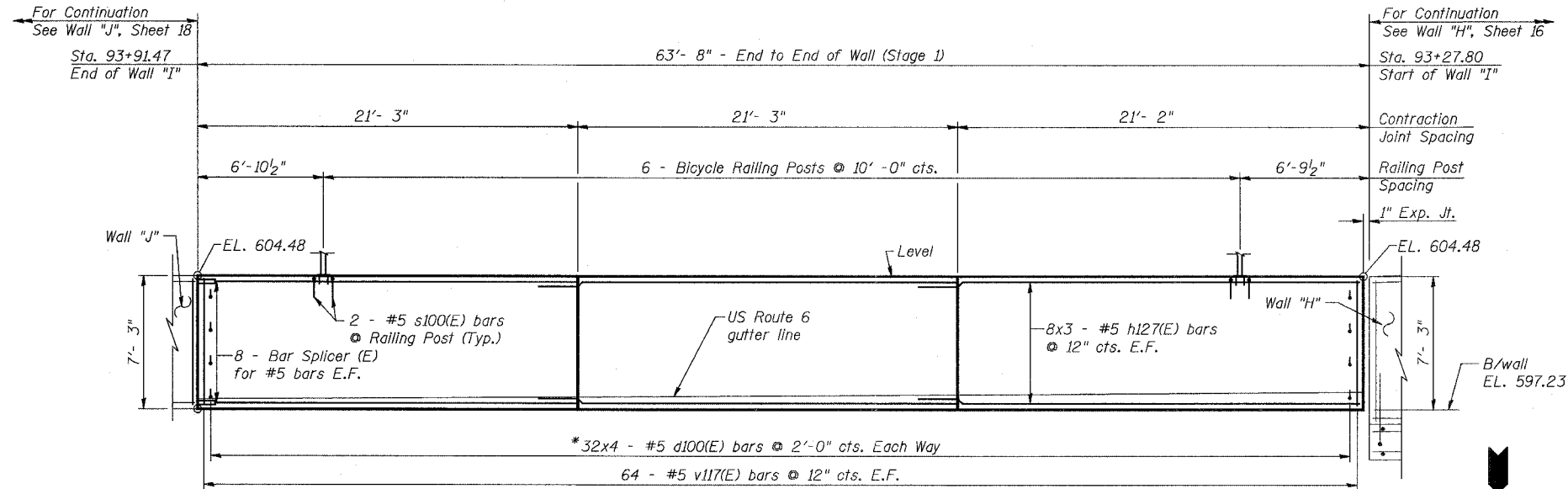
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	519
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

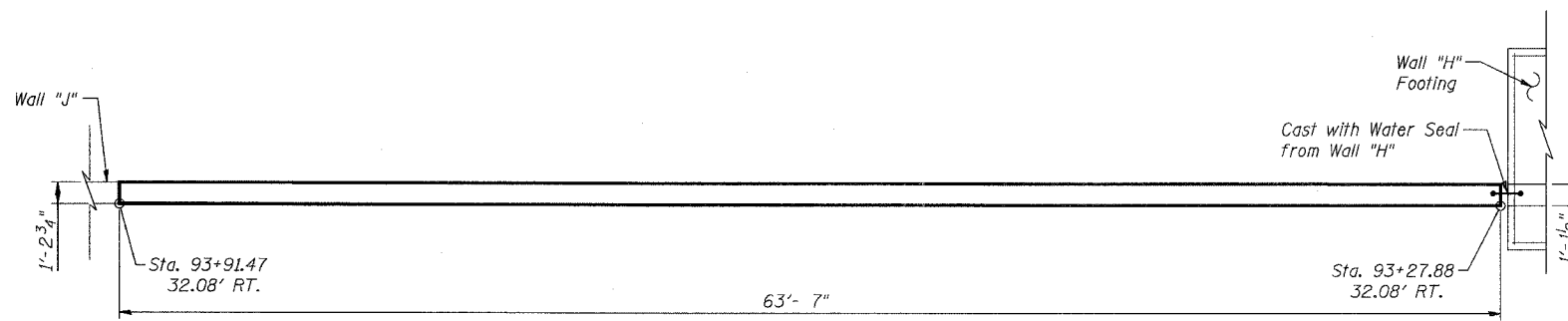
CONTRACT NO. 60E10

SHEET NO. 17
24 SHEETS



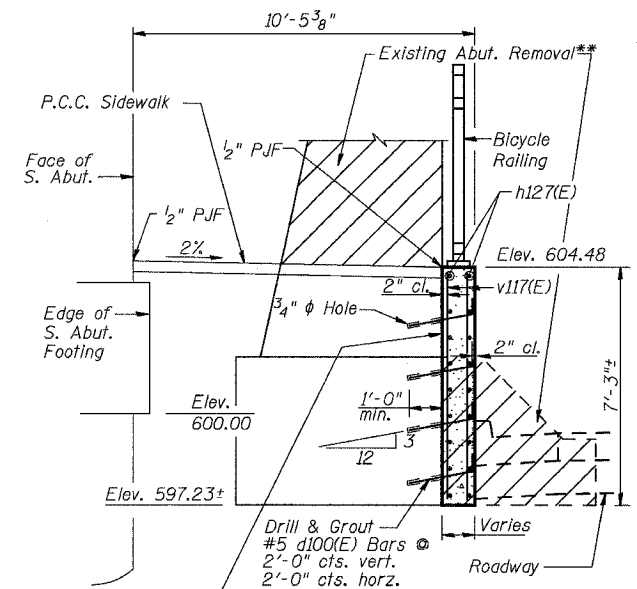
* Indicates 32 columns of bars with 4 rows of bars per column.

ELEVATION



PLAN

(Wall reinforcement has been omitted for clarity)

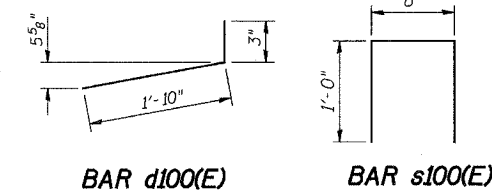


SECTION STA. 93+27.80 TO 93+91.47

** Paid for as "Concrete Removal"
See SN 016-2819 plans for quantities.

**BILL OF MATERIAL
RETAINING WALL "I"**

Bar	No.	Size	Length	Shape
d100(E)	128	#5	2'-1"	
h120(E)	48	#5	23'-0"	
s100(E)	12	#5	2'-8"	
v117(E)	128	#5	6'-11"	
Concrete Structures			Cu. Yd.	20.1
Reinforcement Bars, Epoxy Coated			Pound	2,390
Bar Splicers			Each	16



Notes:

- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
- Contractor to place contraction joints at location of existing abutment construction joints.
- For details of Bicycle Railing, see Sheet 23.
- Bars indicated thus 8x3 - #5 etc. indicates 8 lines of bars with 3 lengths of bars per line.

Legends:

F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "I"
STA. 93+27.80 TO 93+91.47
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

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Chicago, IL 60606
(312) 939-1000

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DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	520
ILLINOIS		FED. AID PROJECT		

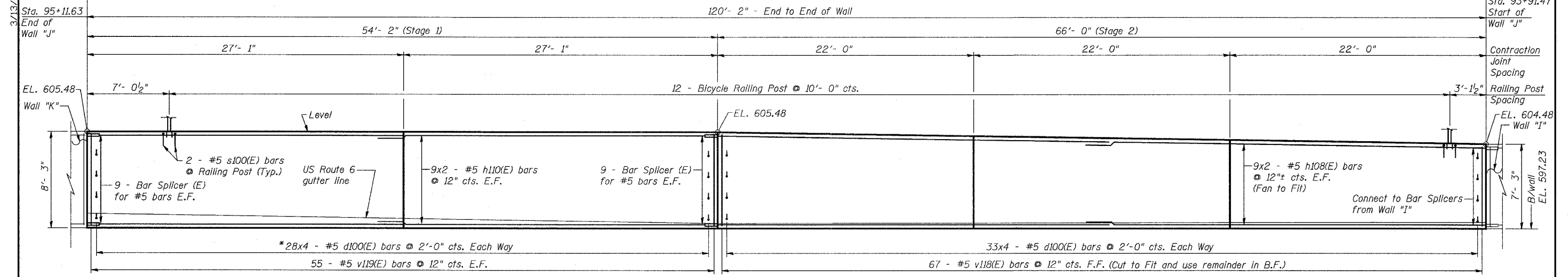
CONTRACT NO. 60E10

SHEET NO. 18
24 SHEETS

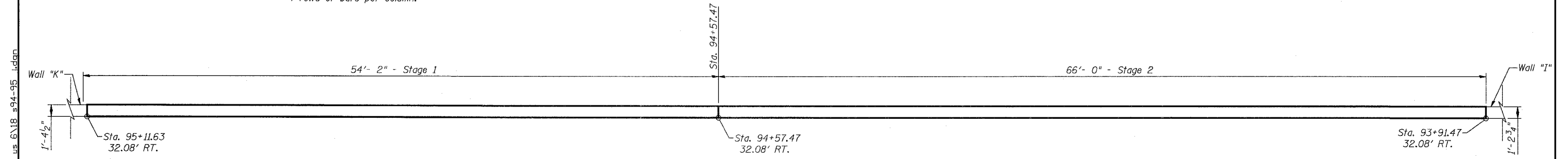
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For Continuation
See Wall "K"
Sheet 19

For Cont.
See Wall "I"
Sheet 17

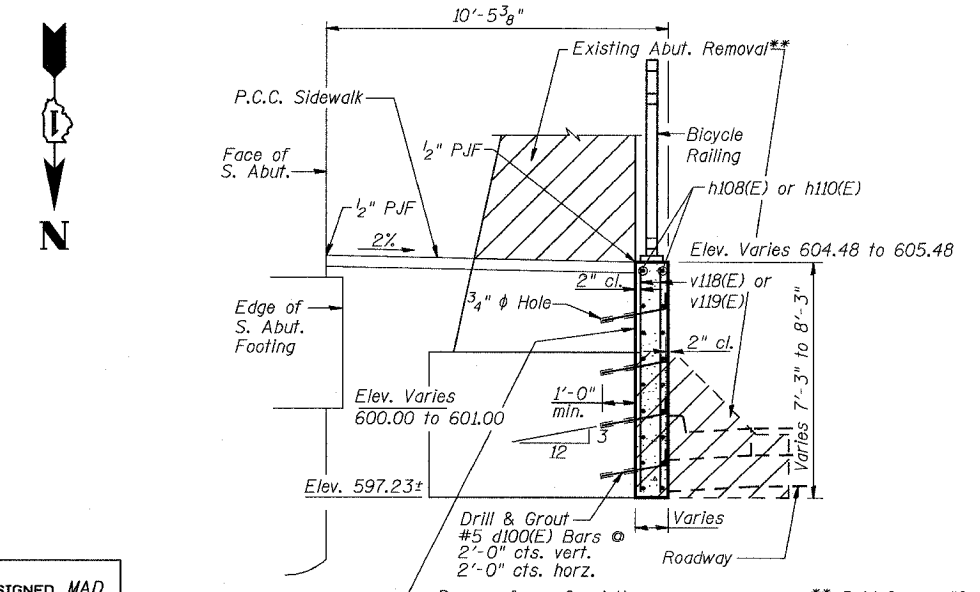


* Indicates 28 columns of bars with 4 rows of bars per column.



**BILL OF MATERIAL
RETAINING WALL "J"**

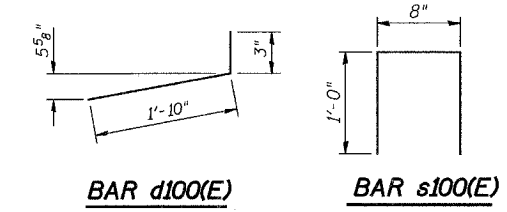
Bar	No.	Size	Length	Shape
d100(E)	244	#5	2'-1"	▬
h108(E)	36	#5	34'-0"	▬
h110(E)	36	#5	28'-1"	▬
s100(E)	24	#5	2'-8"	□
v118(E)	67	#5	14'-10"	▬
v119(E)	110	#5	7'-11"	▬
Concrete Structures		Cu. Yd.	46.2	
Reinforcement Bars, Epoxy Coated		Pound	4,880	
Bar Splicers		Each	36	



** Paid for as "Concrete Removal"
See SN 016-2820 plans for quantities.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

- Notes:
- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
 - Contractor to place contraction joints at location of existing construction joints.
 - For details of Bicycle Railing, see Sheet 23.
 - Bars indicated thus 9x2 - #5 etc. indicates 9 lines of bars with 2 lengths per line.



DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

REVISIONS	
NAME	DATE

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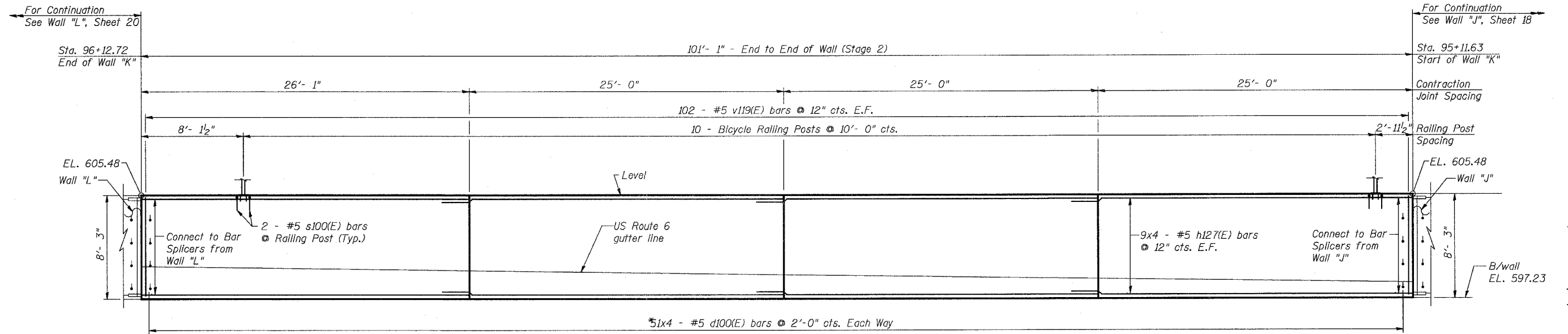
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "J"
STA. 93+91.47 TO 95+11.63
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	521
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

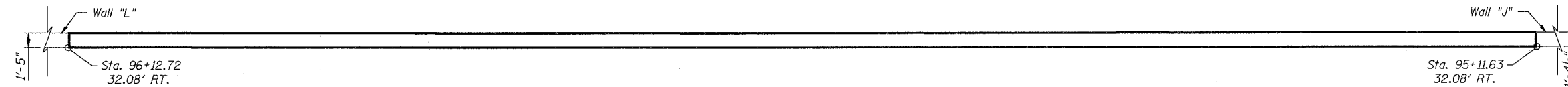
SHEET NO. 19
24 SHEETS

CONTRACT NO. 60E10



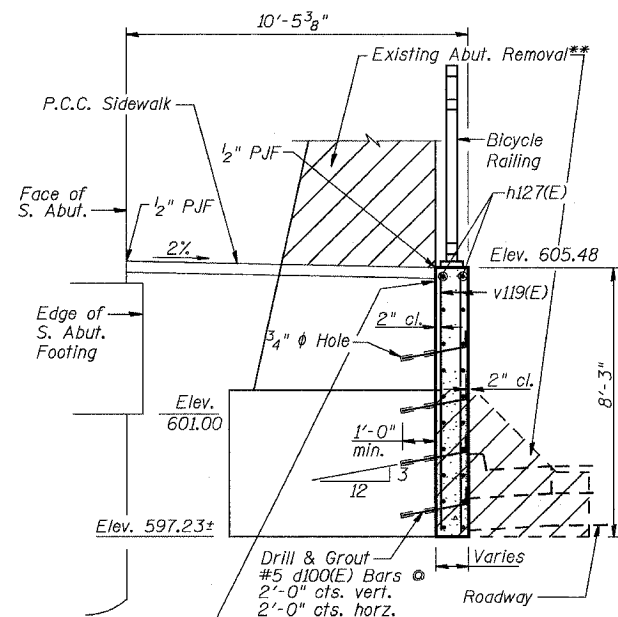
ELEVATION

* Indicates 51 columns of bars with 4 rows of bars per column.



PLAN

(Wall reinforcement has been omitted for clarity)



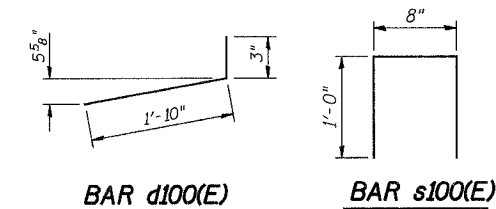
SECTION STA. 95+11.63 TO 96+12.72

** Paid for as "Concrete Removal" See SN 016-2821 plans for quantities.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

Notes:

- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
- Contractor to place contraction joints at location of existing construction joints.
- For details of Bicycle Railing, see Sheet 23.
- Bars indicated thus 9x4 - #5 etc. indicates 9 lines of bars with 4 lengths of bars per line.



**BILL OF MATERIAL
RETAINING WALL "K"**

Bar	No.	Size	Length	Shape	
d100(E)	204	#5	2'-1"	┌───┐	
h127(E)	72	#5	27'-0"	───	
s100(E)	20	#5	2'-8"	└───┘	
v119(E)	204	#5	7'-11"	───	
Concrete Structures				Cu. Yd.	43.2
Reinforcement Bars, Epoxy Coated				Pound	4,220

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "K"
STA. 95+11.63 TO 96+12.72
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

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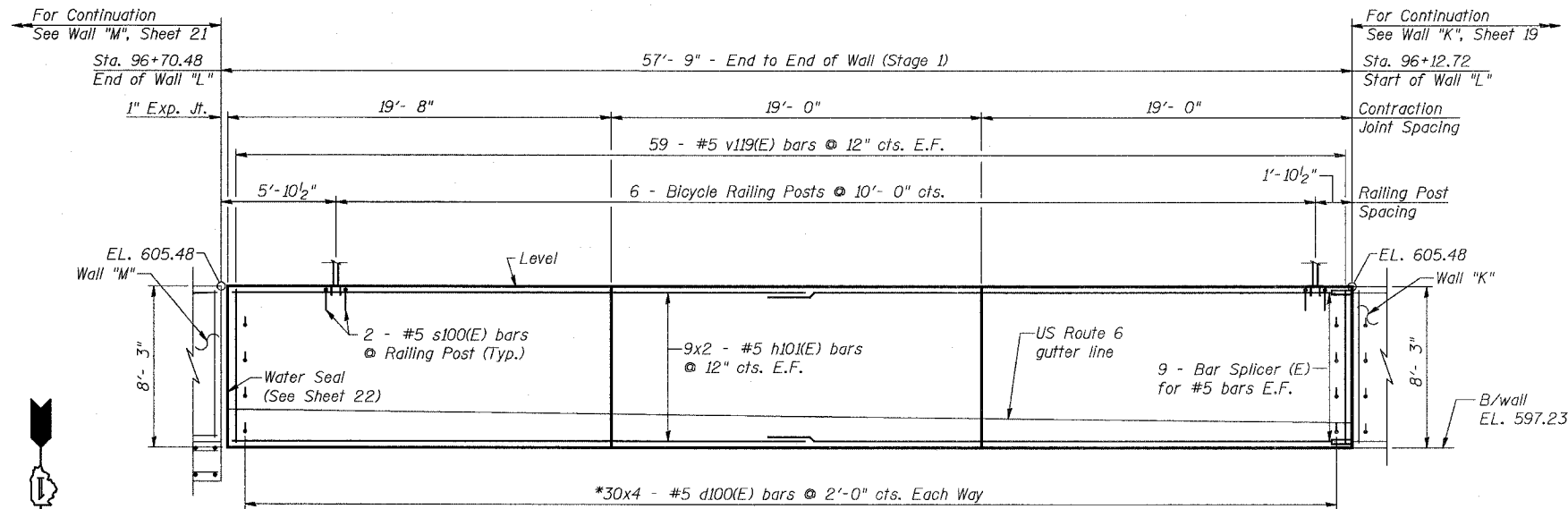
DESIGNED MAD
CHECKED JPB
DRAWN MDS
CHECKED DEY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	200B-001VB	COOK	579	522
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

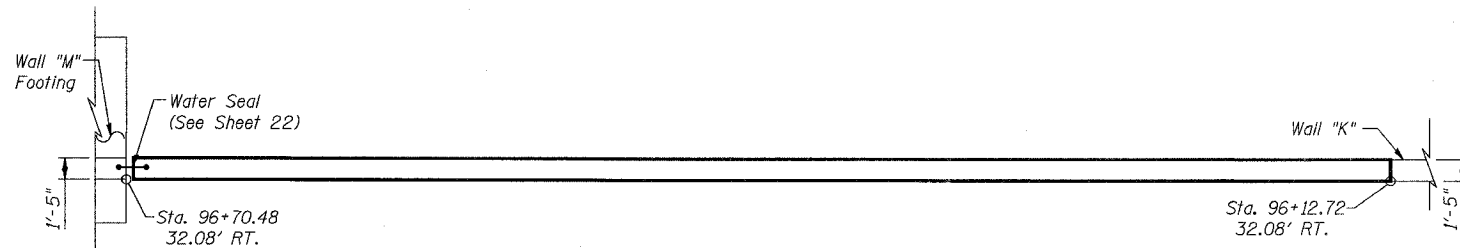
CONTRACT NO. 60E10

SHEET NO. 20
24 SHEETS



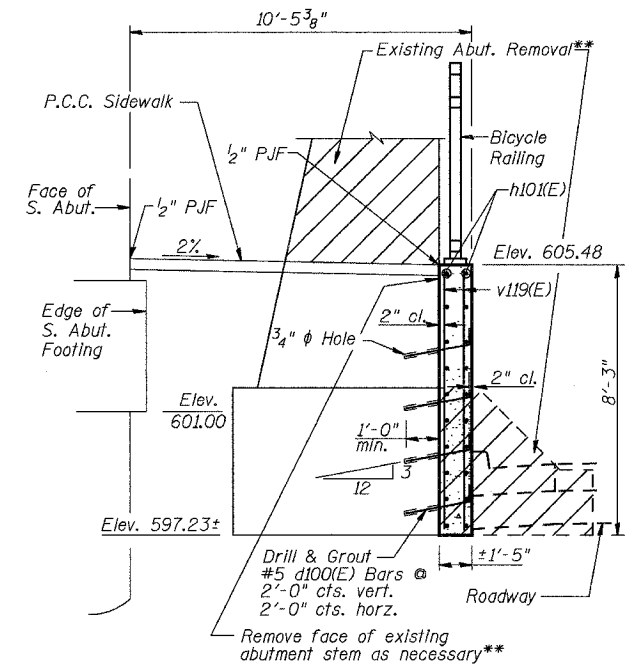
ELEVATION

* indicates 30 columns of bars with 4 rows of bars per column.



PLAN

(Wall reinforcement has been omitted for clarity)

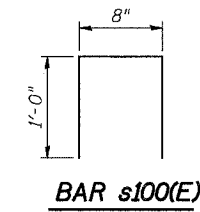
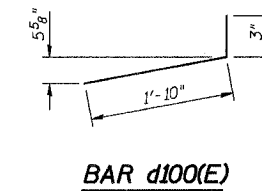


SECTION STA. 96+12.72 TO 96+70.48

** Paid for as "Concrete Removal"
See SN 016-2821 plans for quantities.

**BILL OF MATERIAL
RETAINING WALL "L"**

Bar	No.	Size	Length	Shape
d100(E)	120	#5	2'-1"	
h10(E)	36	#5	29'-11"	
s100(E)	12	#5	2'-8"	
v119(E)	118	#5	7'-11"	
Concrete Structures			Cu. Yd.	25.5
Reinforcement Bars, Epoxy Coated			Pound	2,400
Bar Splicers			Each	18



Notes:

- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
- Contractor to place contraction joints at location of existing construction joints.
- For details of Bicycle Railing, see Sheet 23.
- Bars indicated thus 9x2 - #5 etc. indicates 9 lines of bars with 2 lengths of bars per line.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

DESIGNED	MAD
CHECKED	JPB
DRAWN	MDS
CHECKED	DEY

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "L"
STA. 96+12.72 TO 96+70.48
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

SCALE: DATE: 2/21/2008

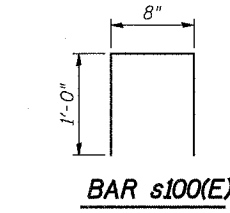
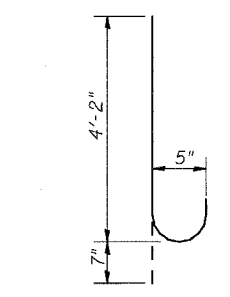
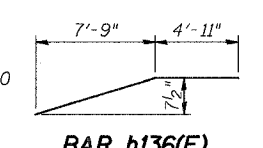
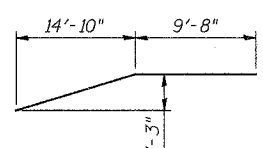
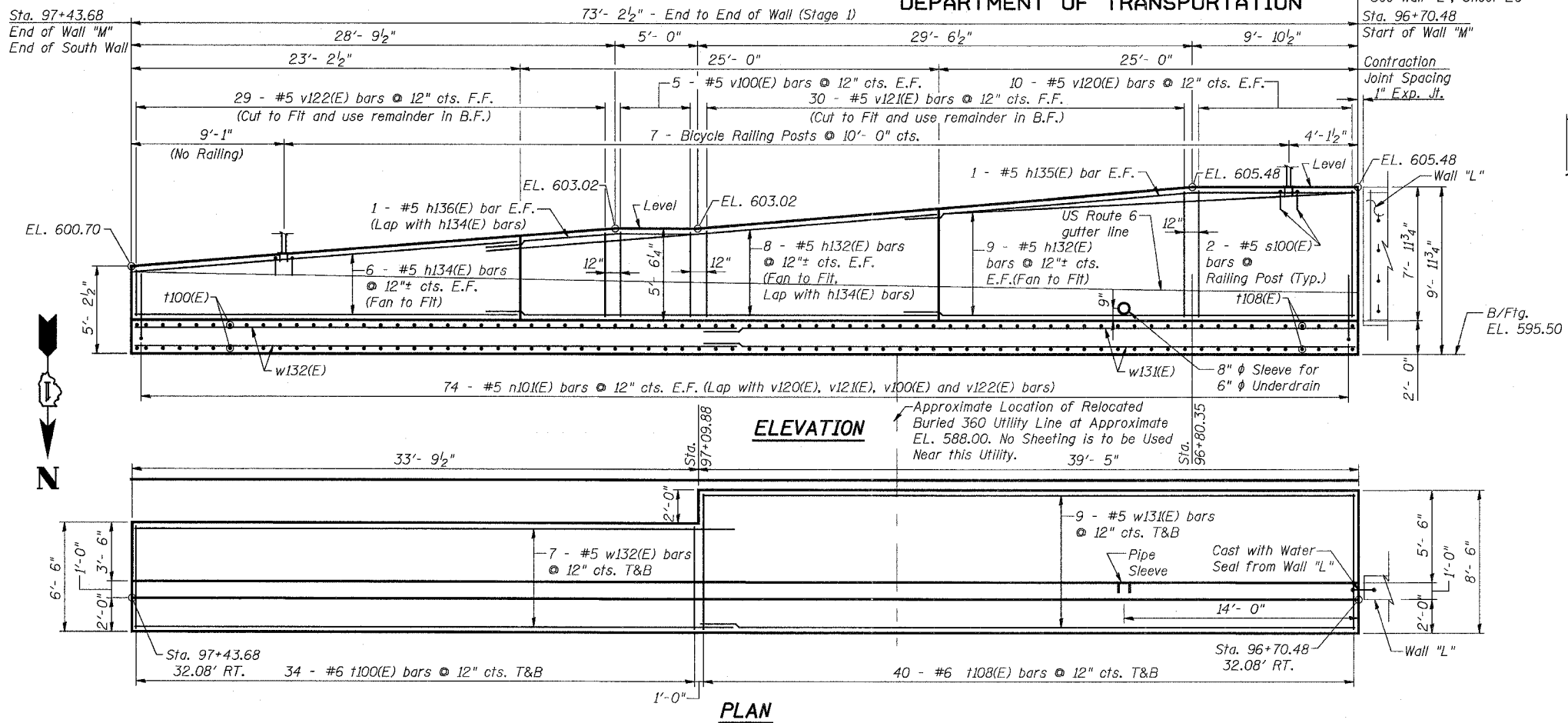
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	523
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
		CONTRACT NO. 60E10		

SHEET NO. 21
24 SHEETS



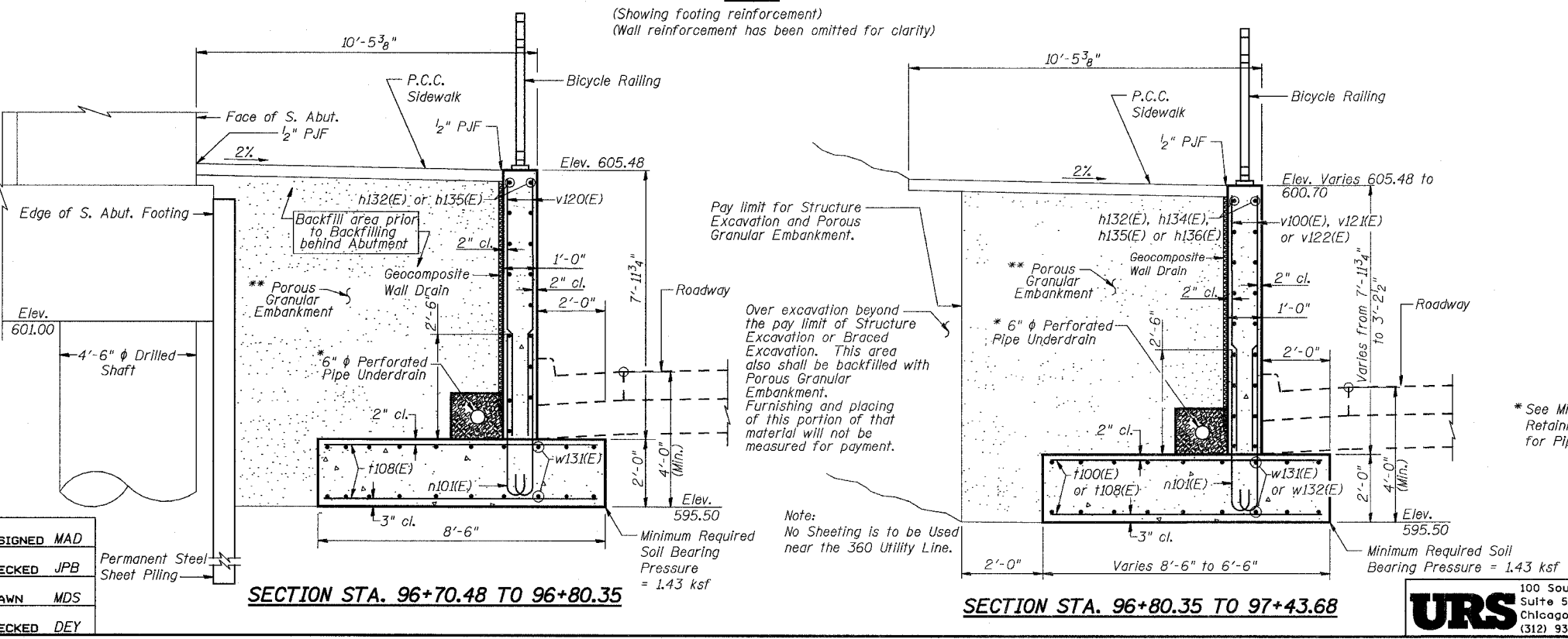
**BILL OF MATERIAL
RETAINING WALL "M"**

Bar	No.	Size	Length	Shape
h132(E)	34	#5	27'-2"	
h134(E)	12	#5	22'-11"	
h135(E)	2	#5	24'-7"	
h136(E)	2	#5	12'-8"	
n10(E)	148	#5	4'-11"	U
s100(E)	14	#5	2'-8"	□
t100(E)	68	#6	6'-2"	
t108(E)	80	#6	8'-2"	
v100(E)	12	#5	5'-3"	
v120(E)	20	#5	7'-8"	
v121(E)	30	#5	13'-2"	
v122(E)	30	#5	8'-3"	
w131(E)	20	#5	39'-1"	
w132(E)	14	#5	36'-0"	
Porous Granular Embankment			Cu. Yd.	79
Structure Excavation			Cu. Yd.	241
Concrete Structures			Cu. Yd.	56.1
Reinforcement Bars, Epoxy Coated			Pound	5,980
Pipe Underdrain For Structures 6"			Foot	73
Geocomposite Wall Drain			Sq. Yd.	36
Non-Special Waste Disposal			Cu. Yd.	241.1

- Notes:
- Minimum Bar Laps are as follows:
#5 = 2'-2"
#6 = 2'-7"
 - For details of Bicycle Railing, see Sheet 23.
 - Bars indicated thus: 2x5 - #5 etc. indicates 2 lines of bars with 5 lengths of bars per line.
 - Cost of pipe sleeve is included with Concrete Structures.
 - ** Excavation for placing Porous Granular Embankment is included in cost of Braced Excavation & Structure Excavation.
 - Porous Granular Embankment shall be compacted to 95% Modified Proctor Density and its coarse aggregate gradation shall be CA 18.

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

* See Miscellaneous Details For Retaining Walls A-M sheet for Pipe Underdrain Detail



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
RETAINING WALL "M"
STA. 96+70.48 TO 97+43.68
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET
SCALE: DATE: 2/21/2008

URS
100 South Wacker Drive,
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3/13/2008 5:50:11 PM
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DESIGNED MAD
CHECKED JPB
DRAWN MDS
CHECKED DEY

Permanent Steel
Sheet Piling

SECTION STA. 96+70.48 TO 96+80.35

SECTION STA. 96+80.35 TO 97+43.68

(Showing footing reinforcement)
(Wall reinforcement has been omitted for clarity)

Pay limit for Structure
Excavation and Porous
Granular Embankment.

Over excavation beyond
the pay limit of Structure
Excavation or Braced
Excavation. This area
also shall be backfilled with
Porous Granular
Embankment.
Furnishing and placing of
this portion of that
material will not be
measured for payment.

Note:
No Sheeting is to be Used
near the 360 Utility Line.

Minimum Required Soil
Bearing Pressure
= 1.43 ksf

Minimum Required Soil
Bearing Pressure = 1.43 ksf

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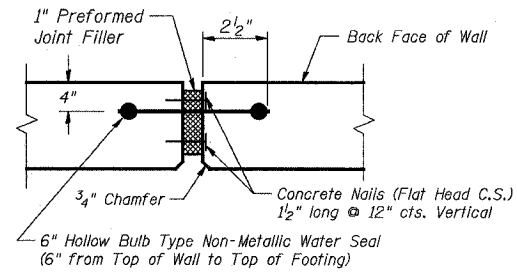
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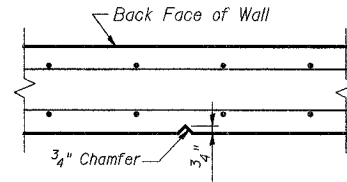
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

CONTRACT NO. 60E10

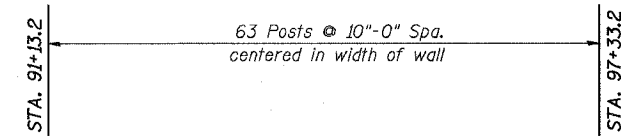
SHEET NO. 22
24 SHEETS



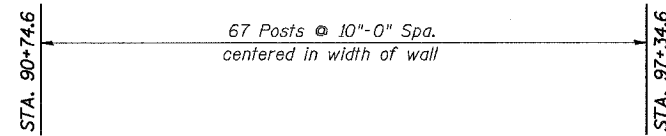
EXPANSION JOINT DETAIL
(Cost included with Concrete Structures)



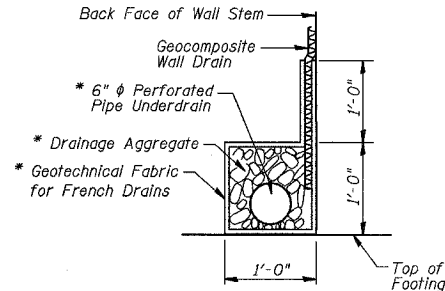
CONTRACTION JOINT DETAIL



NORTH RAILING POST SPACING



SOUTH RAILING POST SPACING



PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrains For Structures 6" (See Note 3)

Legend:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
T&B = Top & Bottom

Notes:

- All Railing Posts shall be set vertical.
- Rails shall be parallel to sidewalk profile.
- See Sheet 24 for Pipe Underdrain Layout, quantities and location of required pipe sleeves through concrete.

DESIGNED	MAD
CHECKED	JPB
DRAWN	MAD
CHECKED	DEY

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
**MISCELLANEOUS DETAILS
FOR RETAINING WALLS A-M**
U.S. 6 MAINLINE RETAINING WALLS
ALONG 159TH STREET

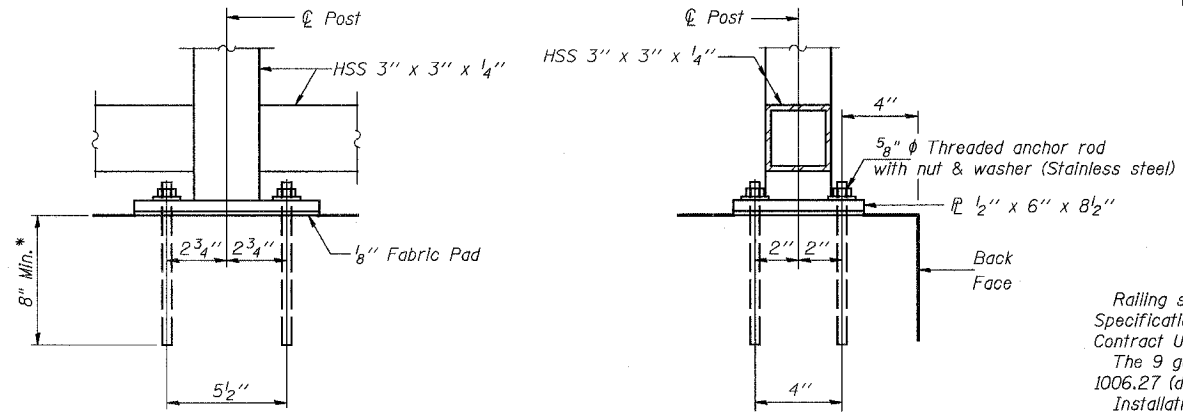
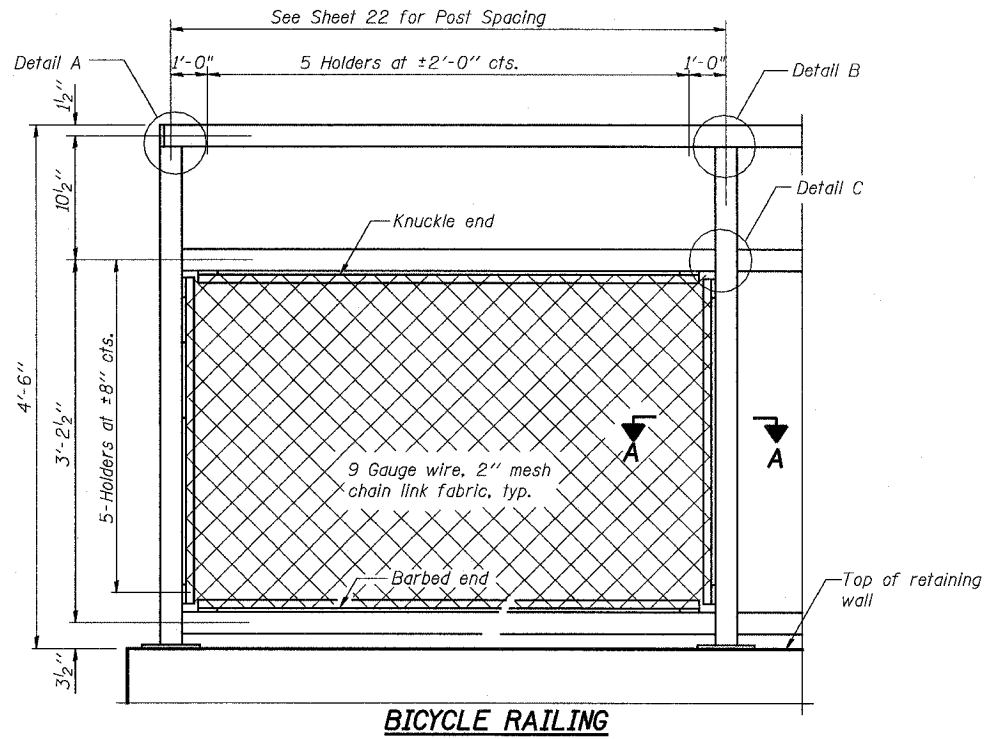
SCALE: DATE: 2/21/2008

3/13/2008 5:50:12 PM
 G:\17049_069\structures\retaining walls\main contract\walls under bridges along us 6\23 railing\ddan

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	525
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-	CONTRACT NO. 60E10	

SHEET NO. 23
24 SHEETS



Drill and epoxy 5/8" Ø galvanized threaded anchor rods. Embedment shall be according to the manufacturer's specifications and shall be at least 8".

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Bicycle Railing.

The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.

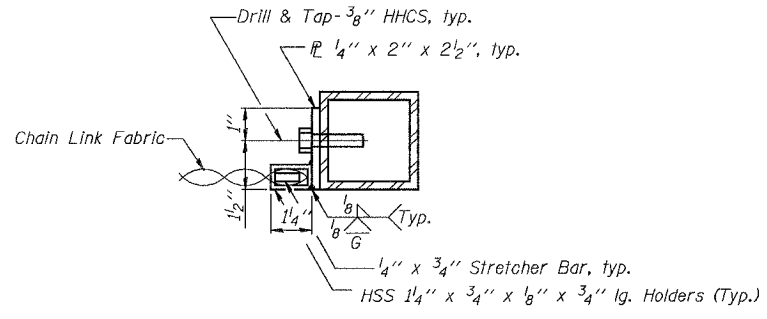
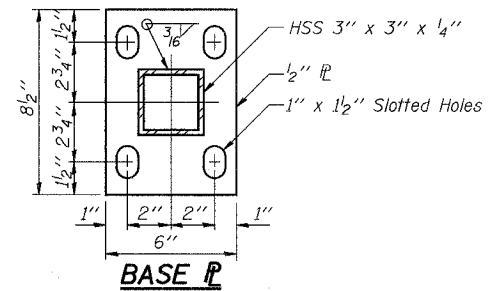
Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

The chain link fabric shall be placed along Bicycle Side as shown on Section A-A.

Stretcher bars shall be used at all four sides of each panel. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.



All posts, railing, splices, and anchor devices shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.

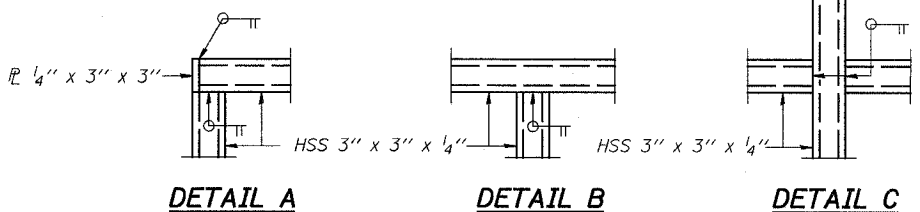
Provide expansion joint in rails per detail shown on this drawing at locations of expansion joints in the retaining walls

All railing posts shall be set vertical. All rails shall be parallel to sidewalk profile. Bend rails and miter their connections to posts as necessary.

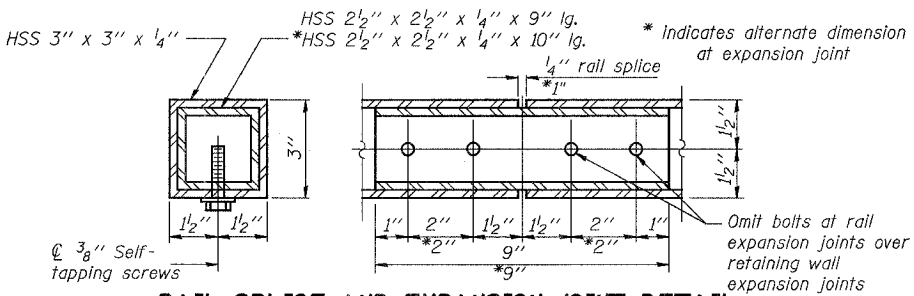
BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	1280

The pay item "Bicycle Railing" includes finishing and installing bicycle railing and anchorages on all sidewalk retaining walls built in this contract and on existing sidewalk retaining walls built in the advance contract.



(10'-0" Maximum Post Spacing)



DESIGNED	MAD
CHECKED	JPB
DRAWN	MAD
CHECKED	DEY

URS
 100 South Wacker Drive,
 Suite 500
 Chicago, IL 60606
 (312) 939-1000

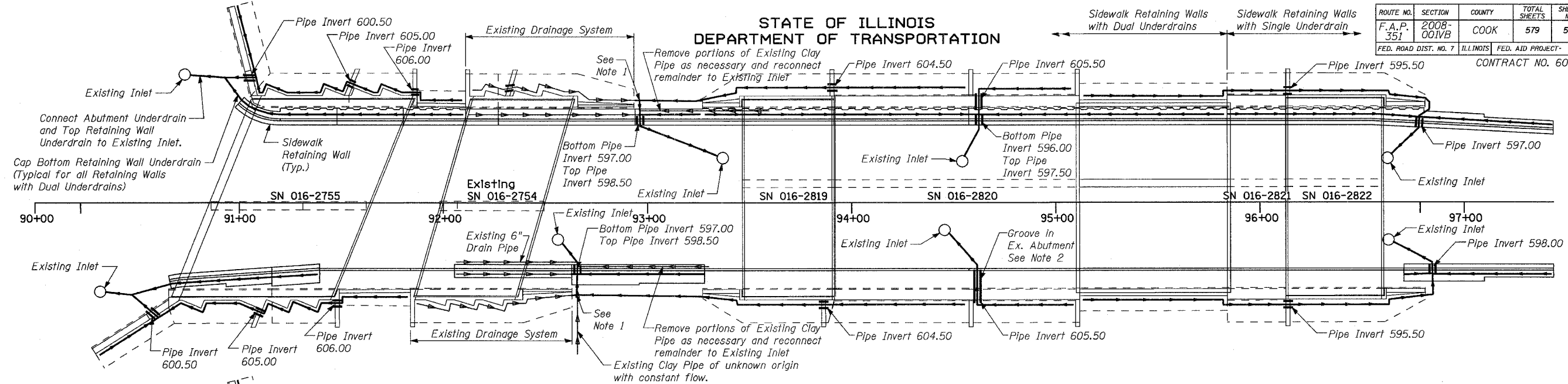
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
**BICYCLE RAILING DETAILS
 ON RETAINING WALLS**
 U.S. 6 MAINLINE RETAINING WALLS
 ALONG 159TH STREET
 SCALE: DATE: 2/21/2008

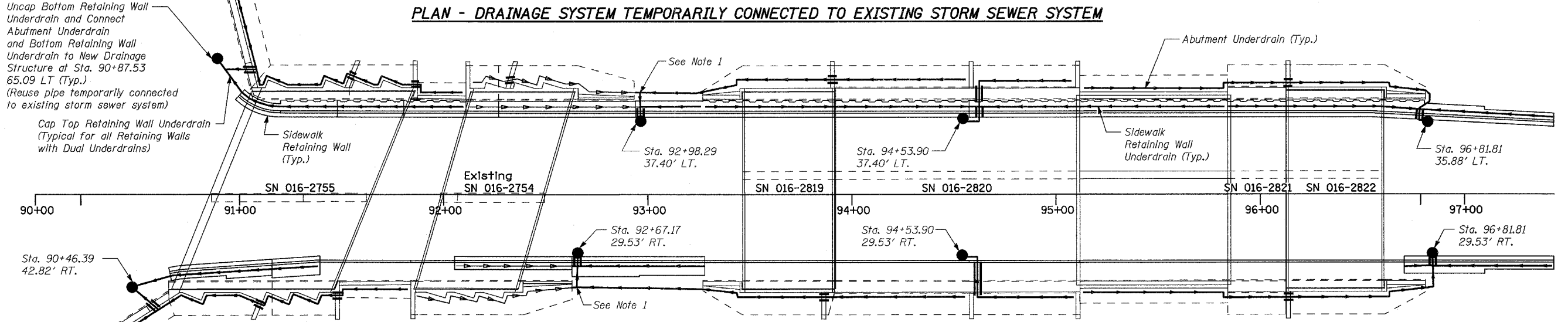
3/13/2008 6:16:07 PM
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	526
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT - CONTRACT NO. 60E10	



PLAN - DRAINAGE SYSTEM TEMPORARILY CONNECTED TO EXISTING STORM SEWER SYSTEM



PLAN - FINAL UNDERDRAIN SYSTEM CONNECTED TO PROPOSED STORM SEWER SYSTEM

PIPE UNDERDRAIN SCHEDULE

Structure	Location	Perforated Quantity (LF)	Non-Perforated Quantity (LF)
SN 016-2755	N. Abutment	161	32
	S. Abutment	168	30
SN 016-2819	N. Abutment	71	88
	S. Abutment	71	96
SN 016-2820	N. Abutment	116	46
	S. Abutment	116	52
SN 016-2821	N. Abutment	103	0
	S. Abutment	103	0
SN 016-2822	N. Abutment	73	45
	S. Abutment	73	50

Structure	Location	Perforated Quantity (LF)	Non-Perforated Quantity (LF)
Sidewalk Retaining Walls	Wall "A"	226	14
	Wall "B"	196	0
	Wall "C"	240	0
	Wall "D"	173	0
	Wall "E"	68	0
	Wall "F"	63	0
	Wall "G"	134	20
	Wall "H"	130	0
	Wall "I"	0	0
	Wall "J"	0	0
	Wall "K"	0	0
Wall "L"	0	0	
Wall "M"	73	0	
Subtotals		2358	473
Total Pipe Underdrain for Structures 6"			2831

LEGEND

- Existing Pipe Underdrain provided with construction of SN 016-2754 & also associated retaining walls
- Pipe Underdrains for structures
- Existing Drainage Structure
- Proposed Drainage Structure (See Roadway Plans)
- Sleeve Through Concrete (included in cost "Concrete Structures")

Notes:

- Existing retaining walls in front of SN 016-2754 have dual underdrains with lower pipes capped. All existing upper pipes shall be temporarily disconnected to allow construction of the new adjacent retaining walls, then reconnected to the existing storm sewer system through the new temporary underdrain system. Lower pipes shall temporarily remain capped. Upon completion of the new storm sewer system, upper pipes shall be capped and lower pipes shall be uncapped and connected to the new storm sewer through the new final underdrain system.
- For Drainage and Backfill for each structure see the plans for that structure.
- Pipe Underdrain schedule includes pay item lengths for pipe underdrain required for all bridges and adjacent wingwalls and sidewalk retaining walls.

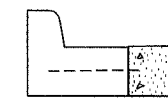
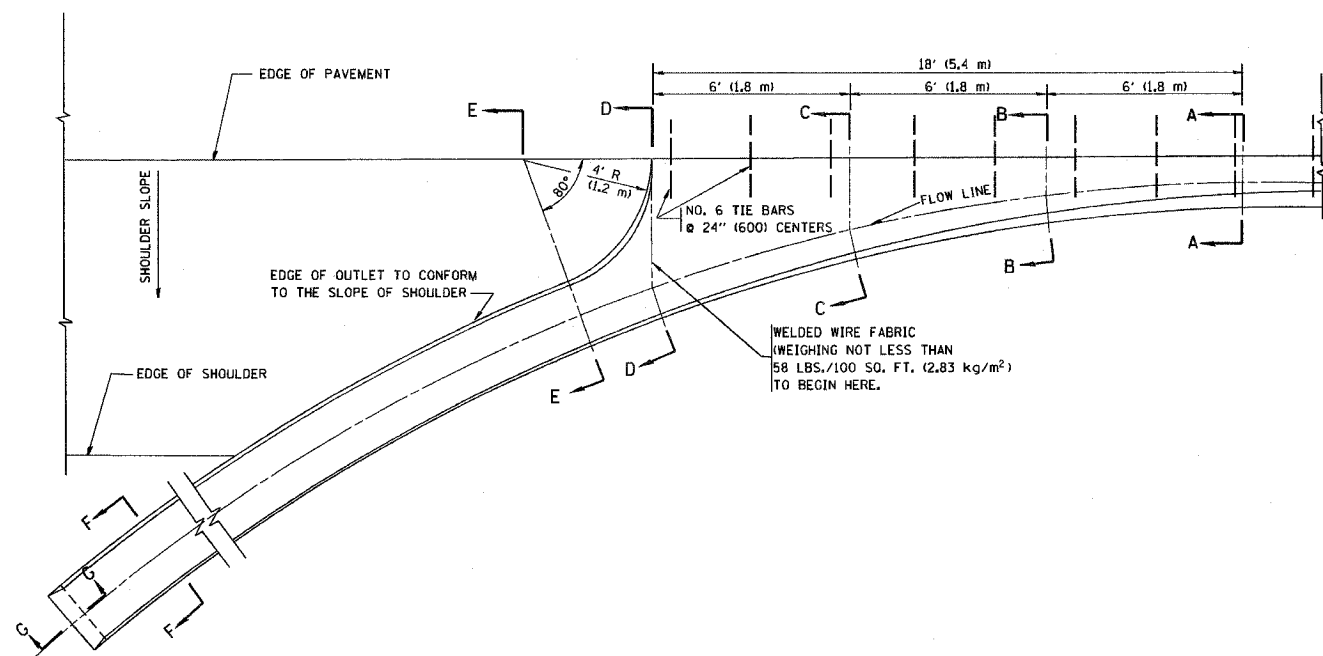
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
UNDERDRAIN LAYOUT FOR STRUCTURES
 U.S. 6 MAINLINE RETAINING WALLS
 ALONG 159TH STREET
 SCALE: _____ DATE: 2/21/2008

URS
 100 South Wacker Drive,
 Suite 500
 Chicago, IL 60606
 (312) 939-1000

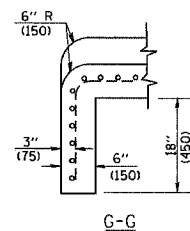
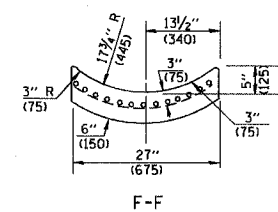
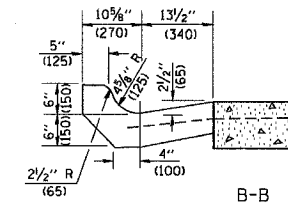
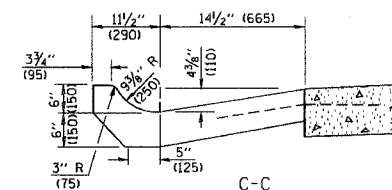
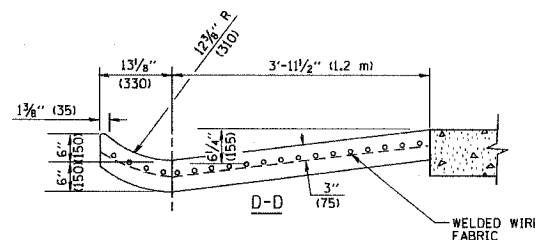
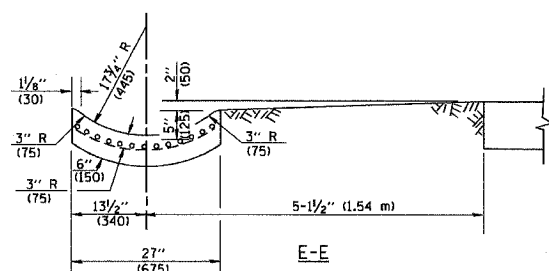
DESIGNED	MAD
CHECKED	JPB
DRAWN	MAD
CHECKED	DEY

CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			579 529
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
 1.27 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
 FOR SECTION F-F =
 0.045 CU. YDS. (0.03 m³) CLASS SI CONCRETE PER FT. (m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	8/4/86
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	12/21/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

OUTLET FOR CONCRETE CURB AND GUTTER

SCALE: VERT. NONE
 HORIZ.

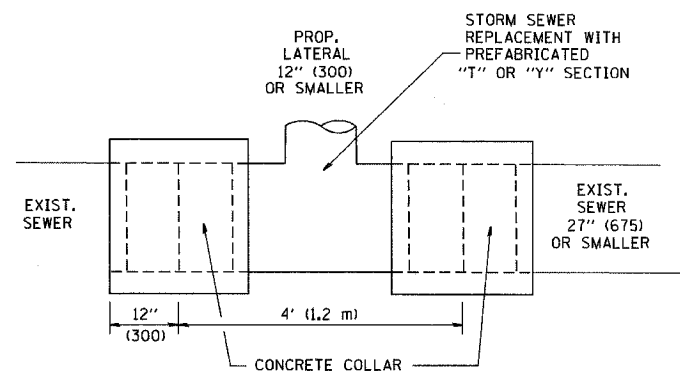
DRAWN BY

CHECKED BY

BD600-01 (BD-03)

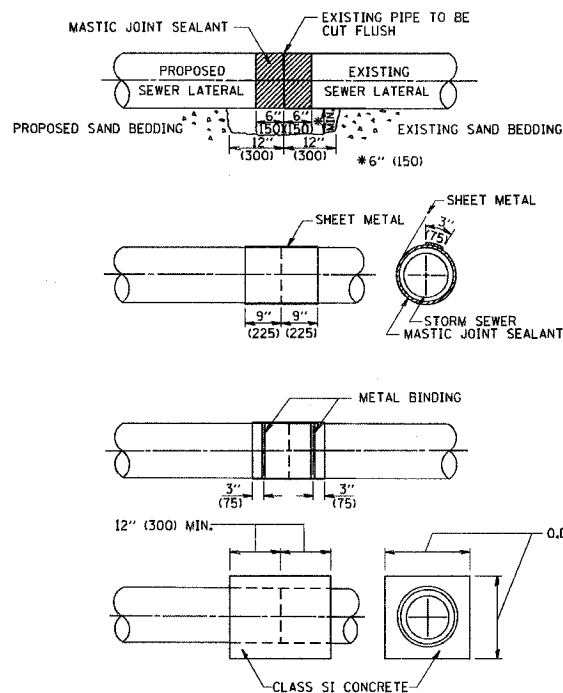
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 PLOT SCALE = 50.0000 / IN.
 USER NAME = bmad-d

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	530
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

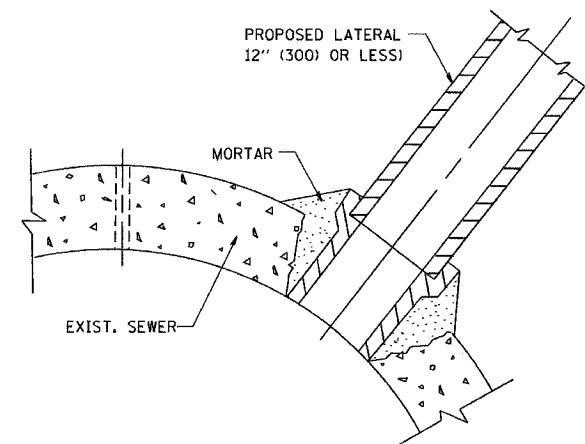


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 L1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

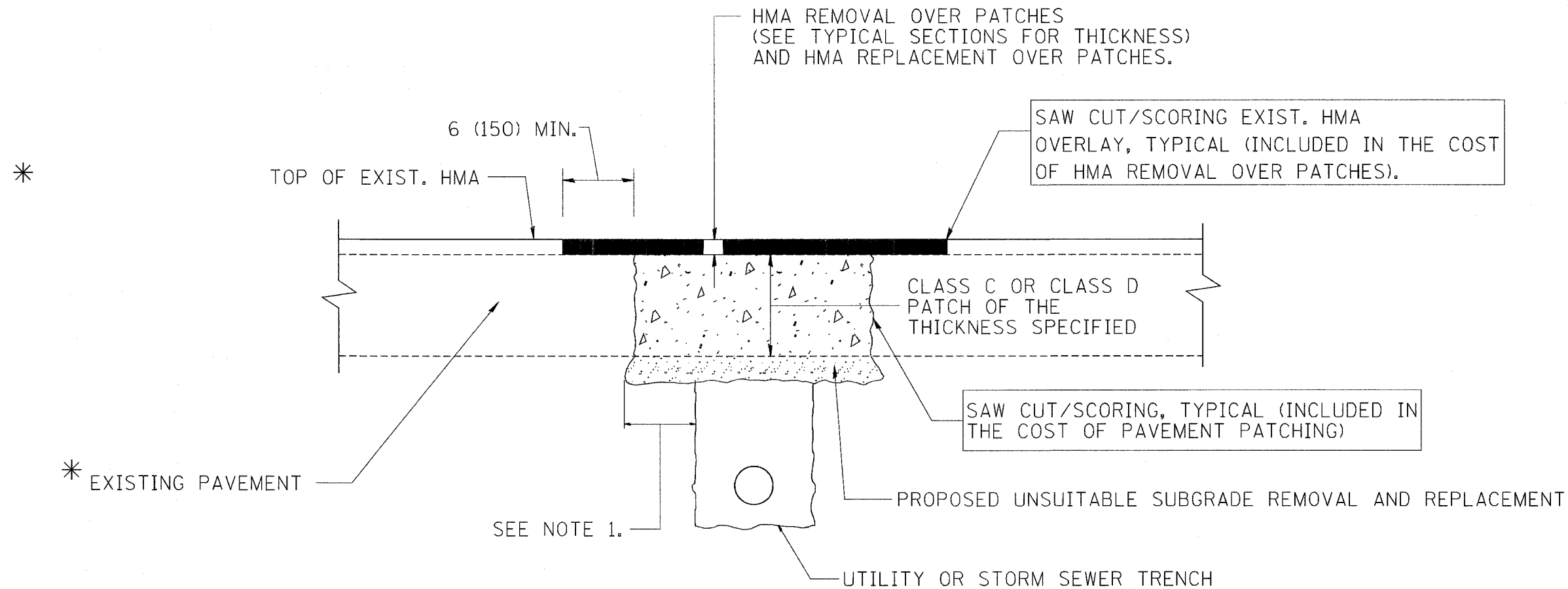
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD500-01 (BD-7)

CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			579
			531
STA.		TO STA.	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/98
R. SHAH	04/24/98
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PAVEMENT PATCHING FOR
 HMA SURFACED
 PAVEMENT**

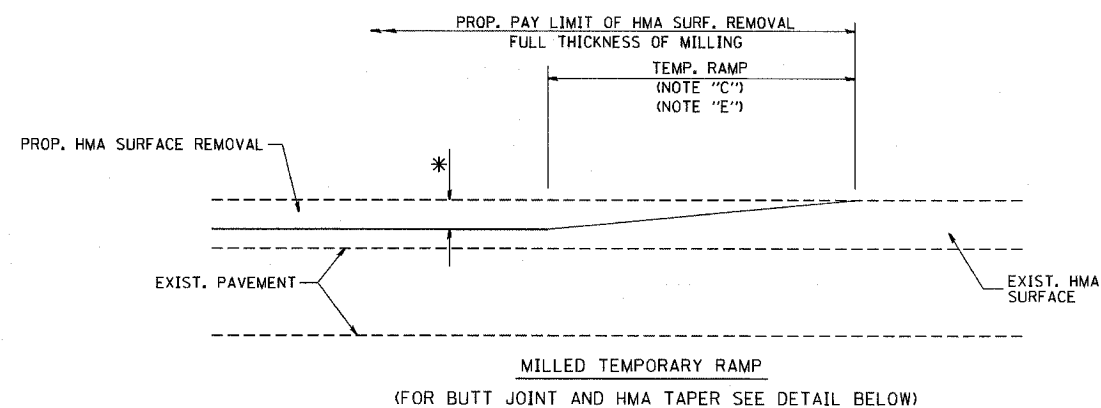
SCALE: VERT. NONE
 HORIZ.

DRAWN BY
 CHECKED BY

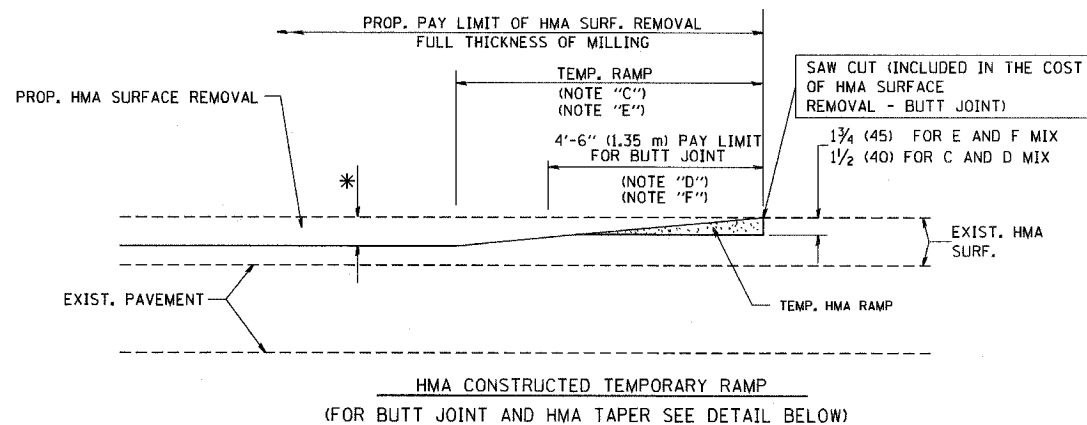
BD400-04 (BD-22)

PLOT DATE = 9/4/2007
 PLOT SCALE = 800/800 / IN.
 USER NAME = bboard

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	533
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

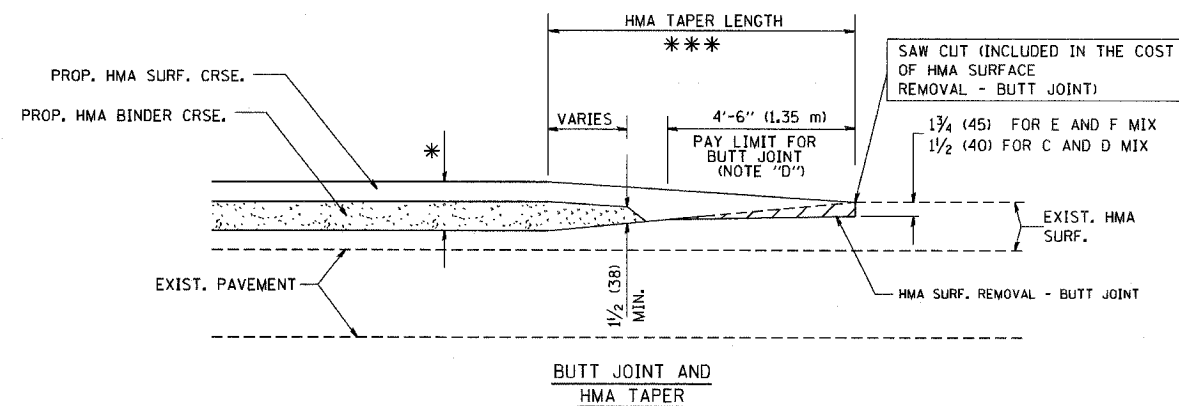


OPTION 1

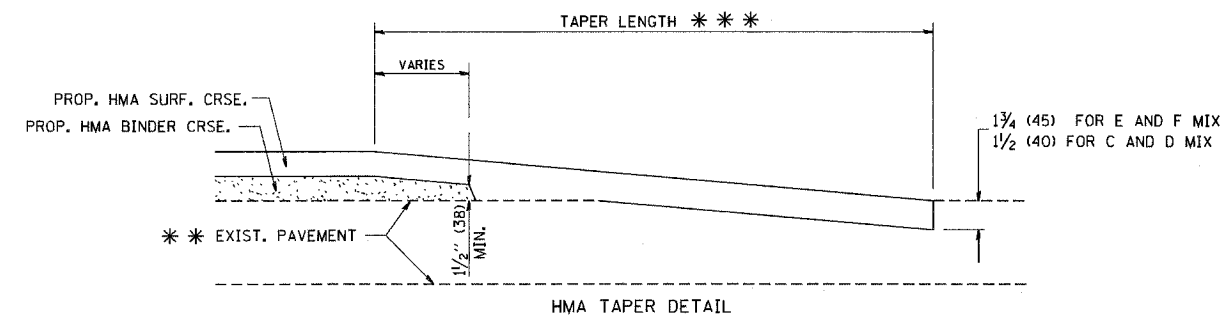
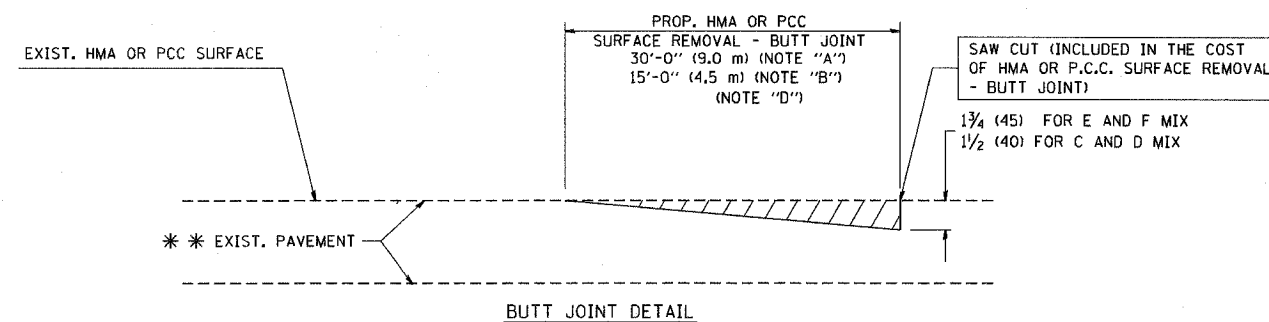


OPTION 2

TYPICAL TEMPORARY RAMP



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND
HMA TAPER
DETAILS**

SCALE: VERT. NONE
HORIZ. NONE

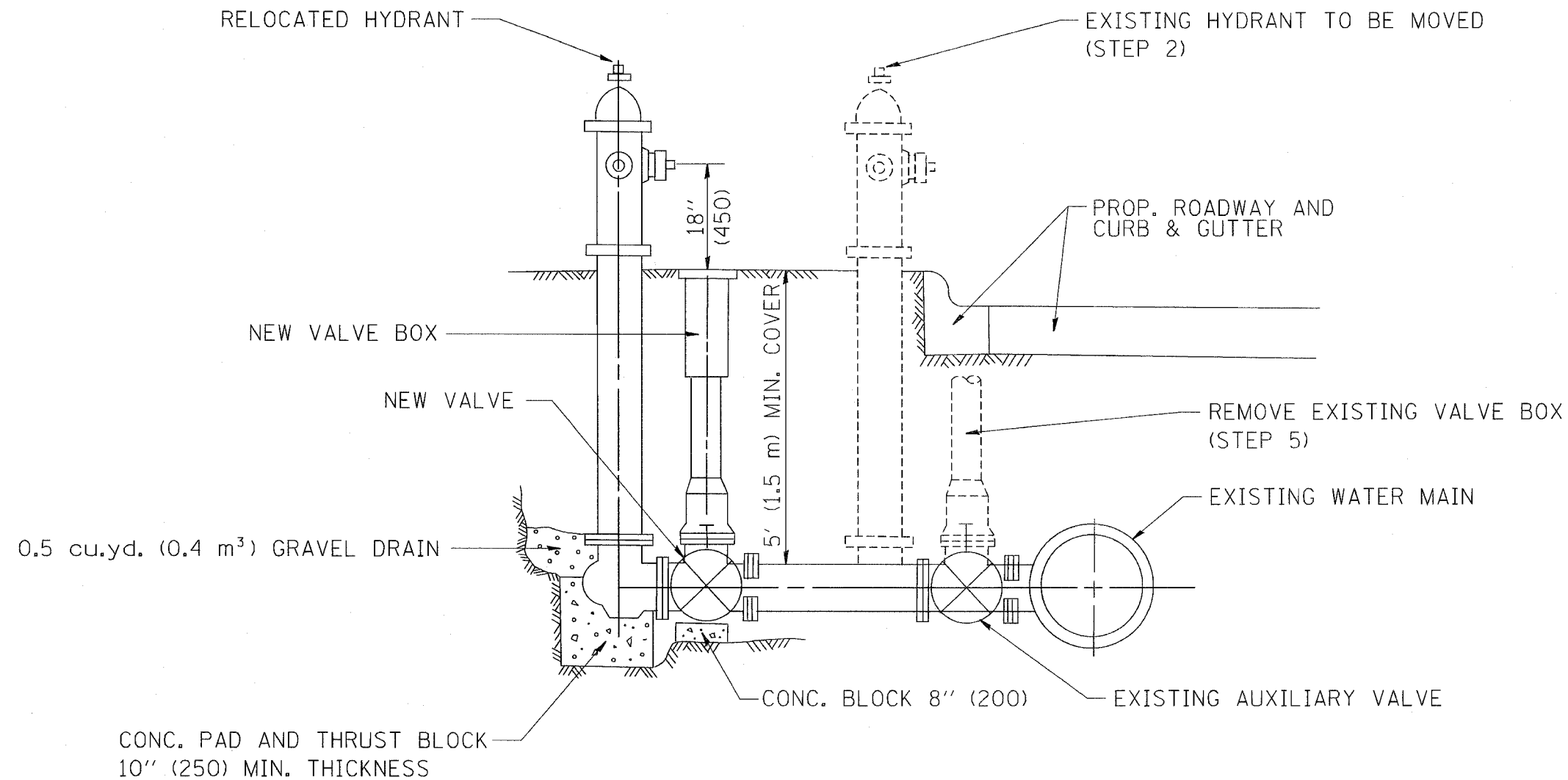
DRAWN BY

CHECKED BY

BD400-05 (VI-BD32)

PLT DATE = 3/25/2007
PLT SCALE = 3/8" = 1'-0"
USER NAME = baward

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	534
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	09/08/94
R. SHAH	10/25/94

ILLINOIS DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

SCALE: VERT. NONE
HORIZ.

DRAWN BY

CHECKED BY

BD500-03 (BD-36)

PLOT DATE = 3/5/2007
PLOT SCALE = 50.0000 / IN.
USER NAME = bboard

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	535
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

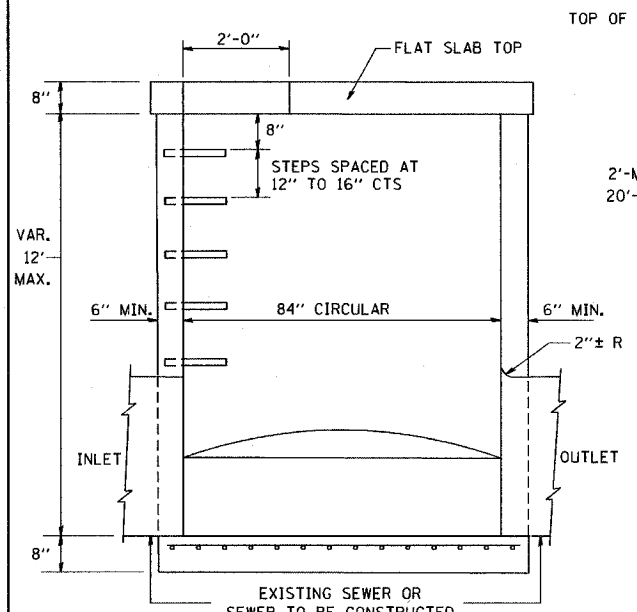
PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

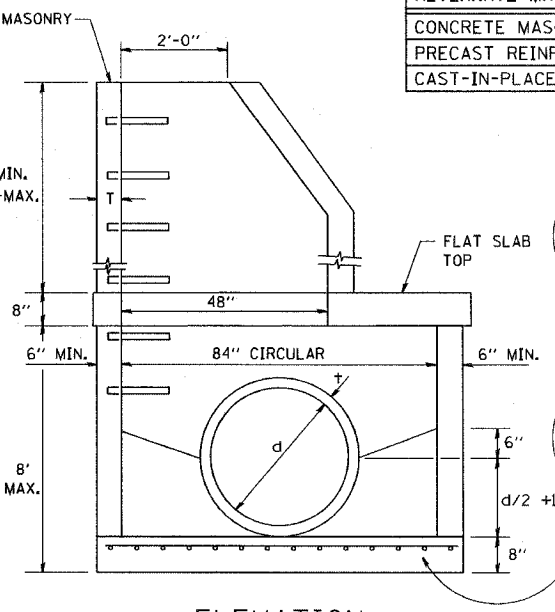
JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

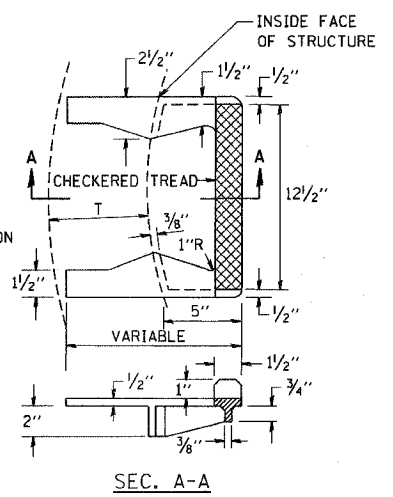
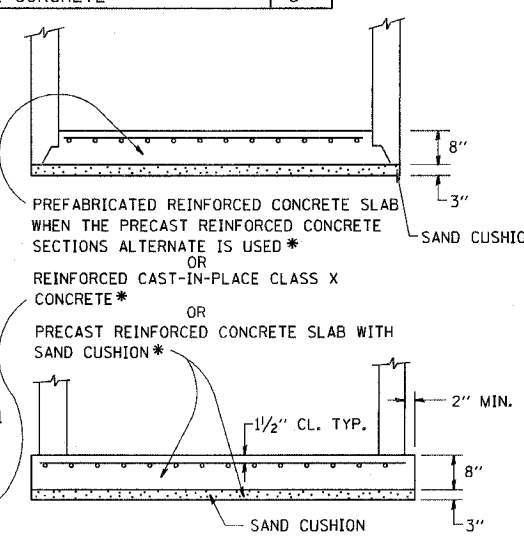
ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



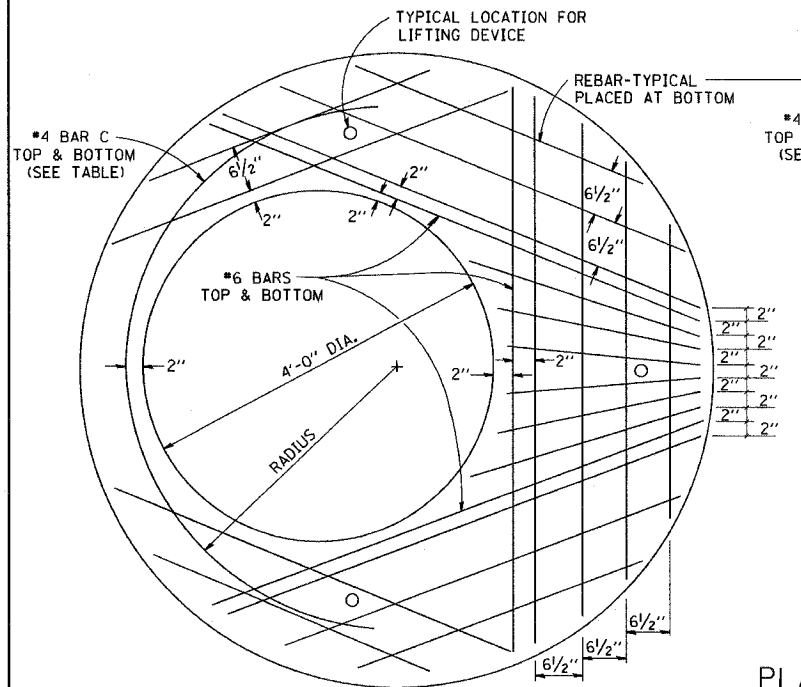
ELEVATION



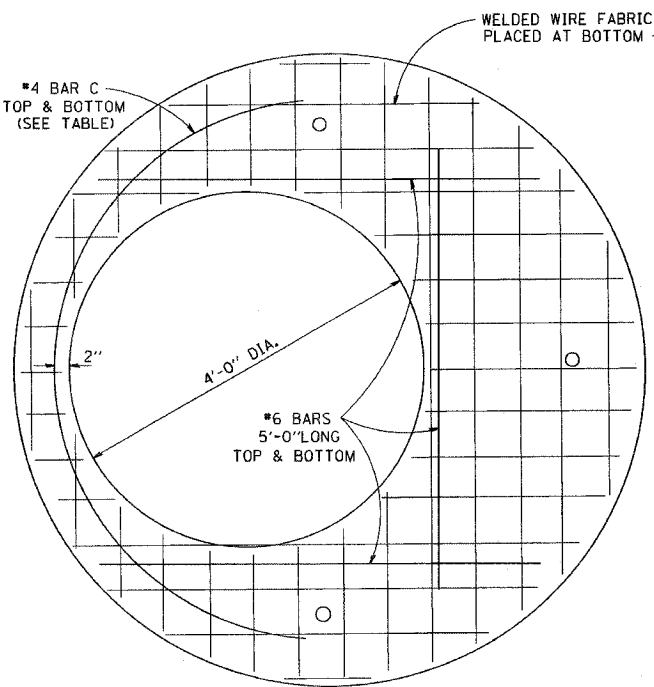
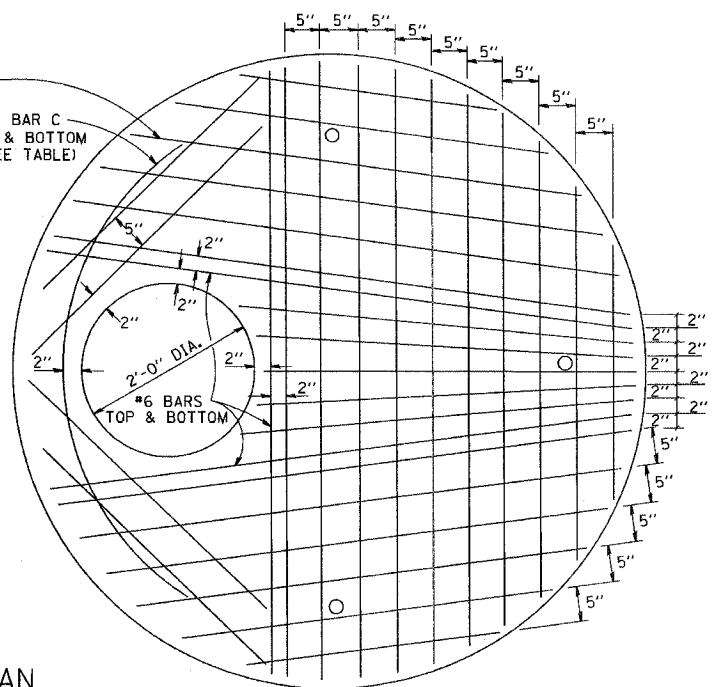
ELEVATION



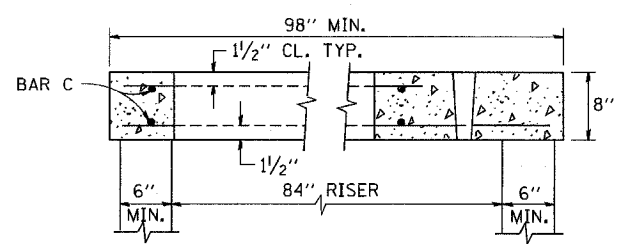
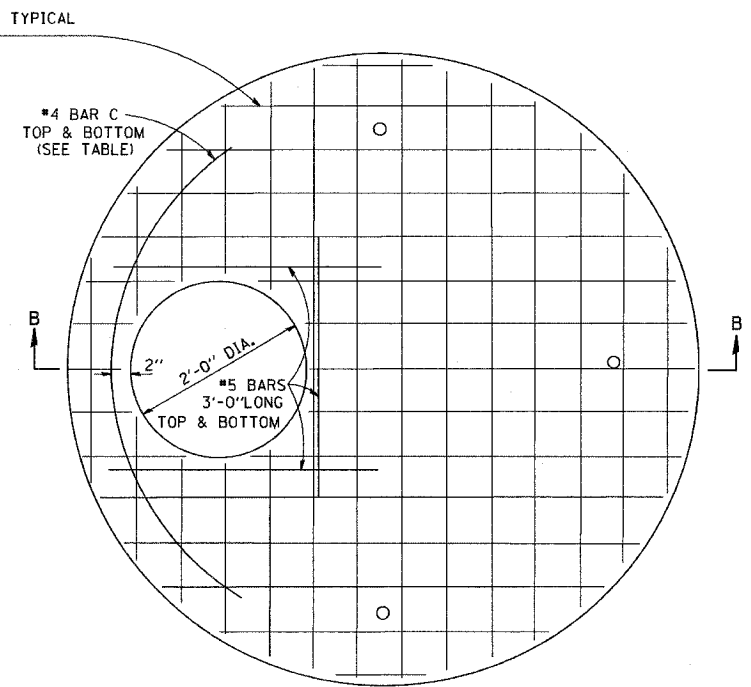
CAST IRON STEPS



PLAN
SHOWING REBAR REINFORCEMENT



PLAN
SHOWING WELDED WIRE FABRIC REINFORCEMENT



SECTION B-B

DIAMETER OF OPENING	REINFORCEMENT "A" OR "C" WWF EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ. IN./LIN. FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ. IN./LIN. FT.	#6	#4	9'-0"	38"

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

REVISIONS	
NAME	DATE
	10/18/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

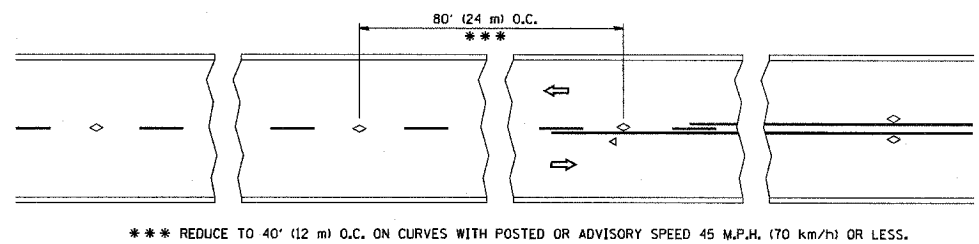
MANHOLE TYPE A
7 FOOT DIAMETER

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

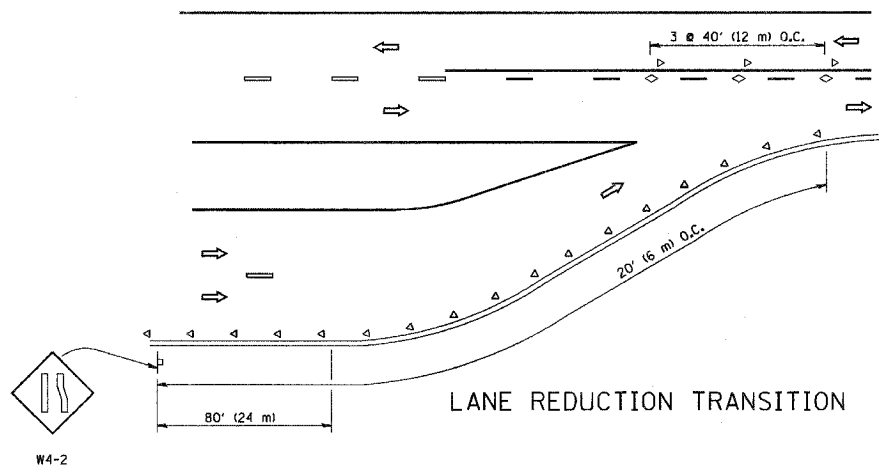
PLOT DATE = 3/25/2007
PLOT SCALE = 3/8" = 1'-0"
USER NAME = bmaurnd

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			570	538
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

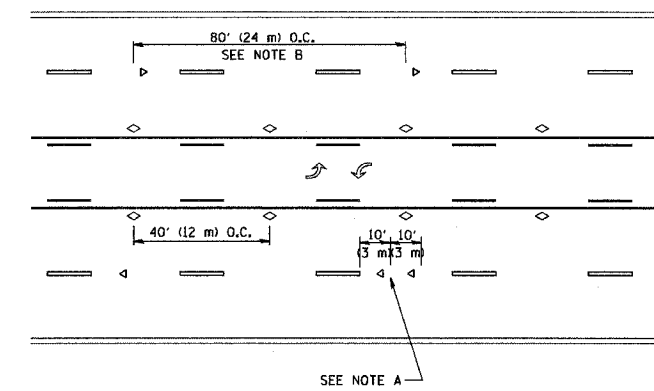


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

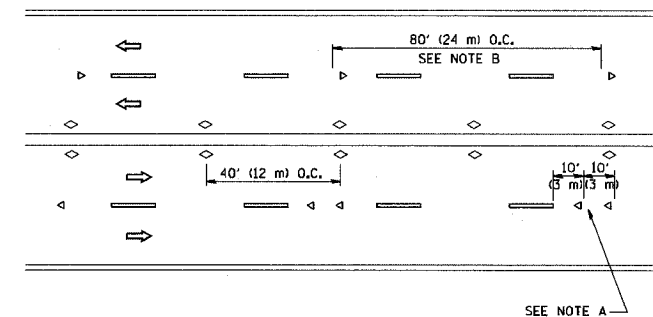
TWO-LANE/TWO-WAY



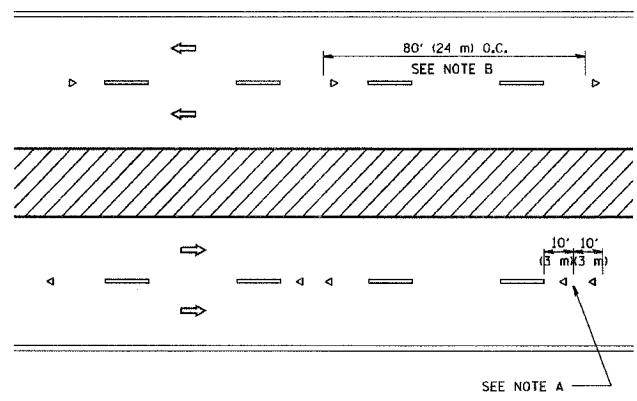
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

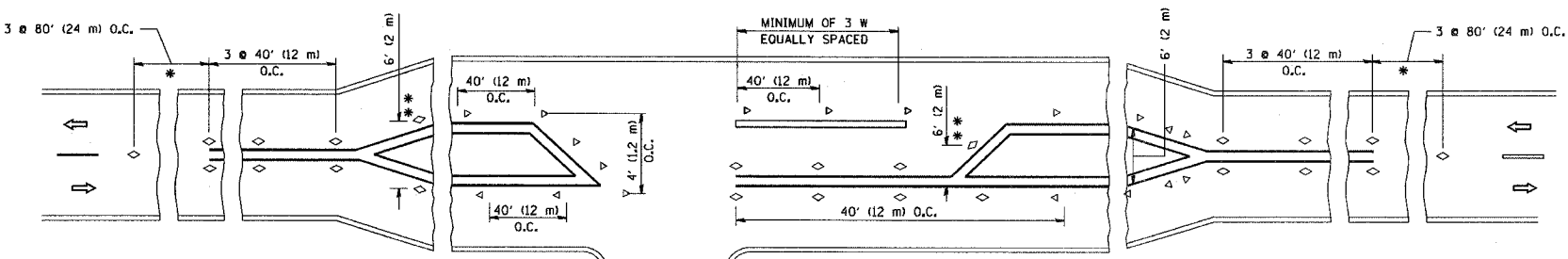
LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

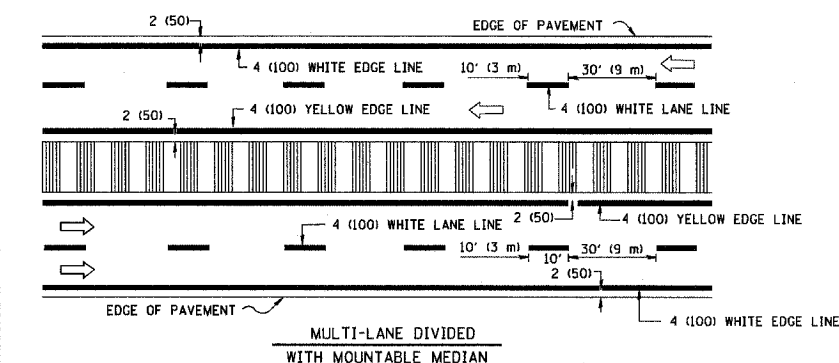
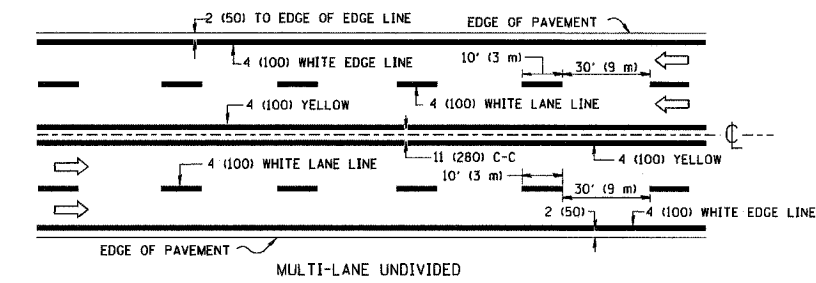
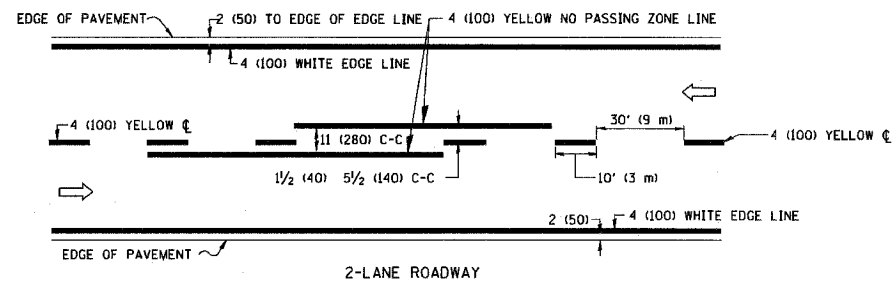
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

DRAWN BY CADD
 CHECKED BY

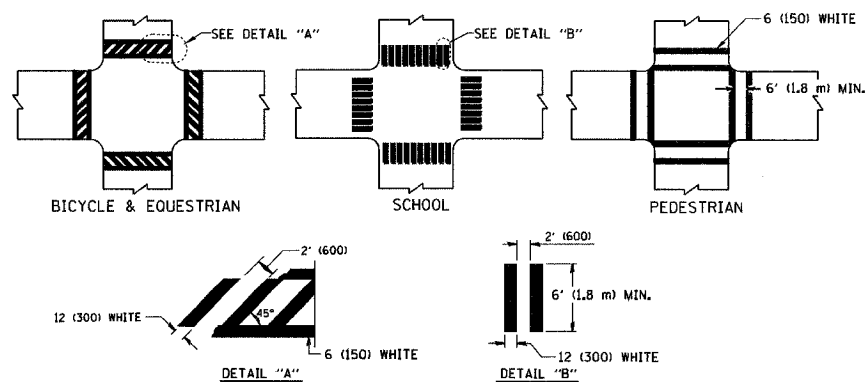
TC-11

PLT DATE = 3/6/2007
 PLOT SCALE = 3/8" = 1'-0"
 USER NAME = bnaum-d

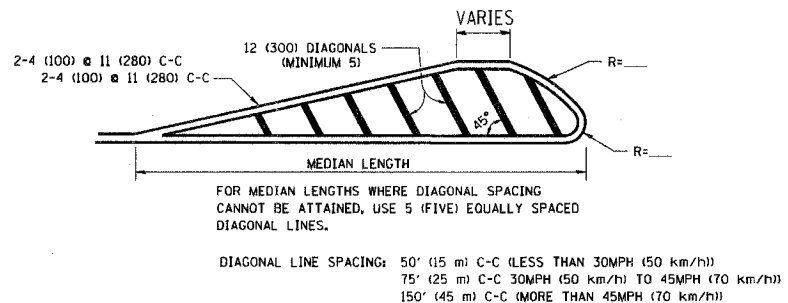
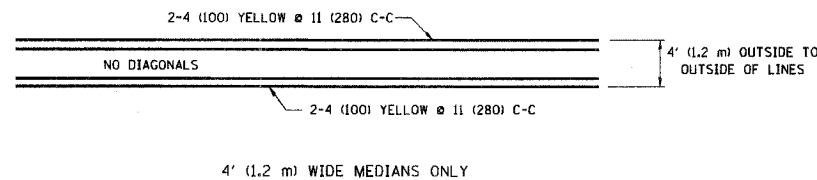


TYPICAL LANE AND EDGE LINE MARKING

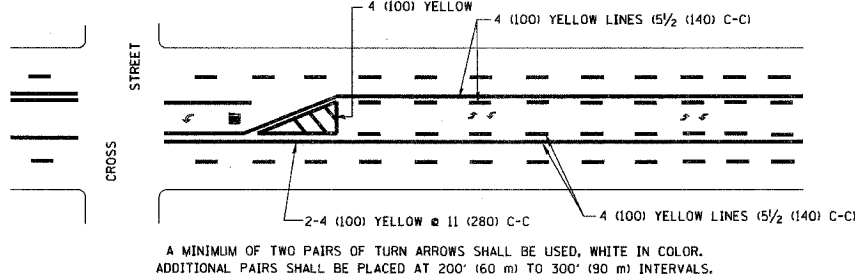
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE



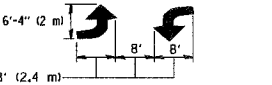
TYPICAL CROSSWALK MARKING



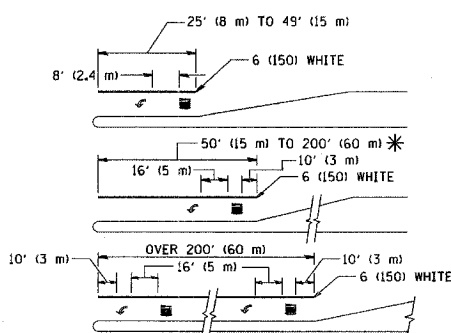
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING



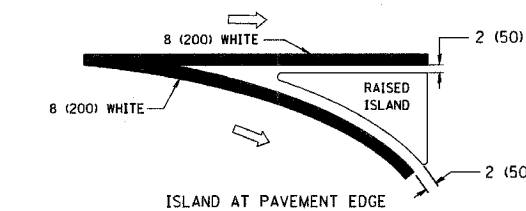
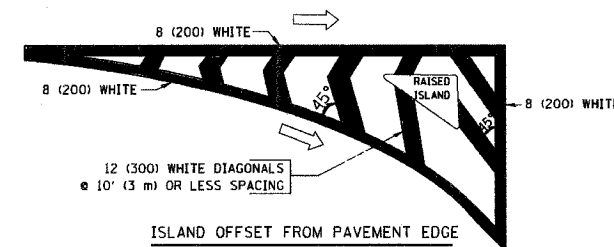
MEDIAN WITH TWO-WAY LEFT TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²) * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

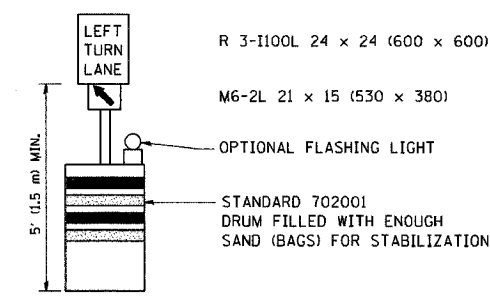
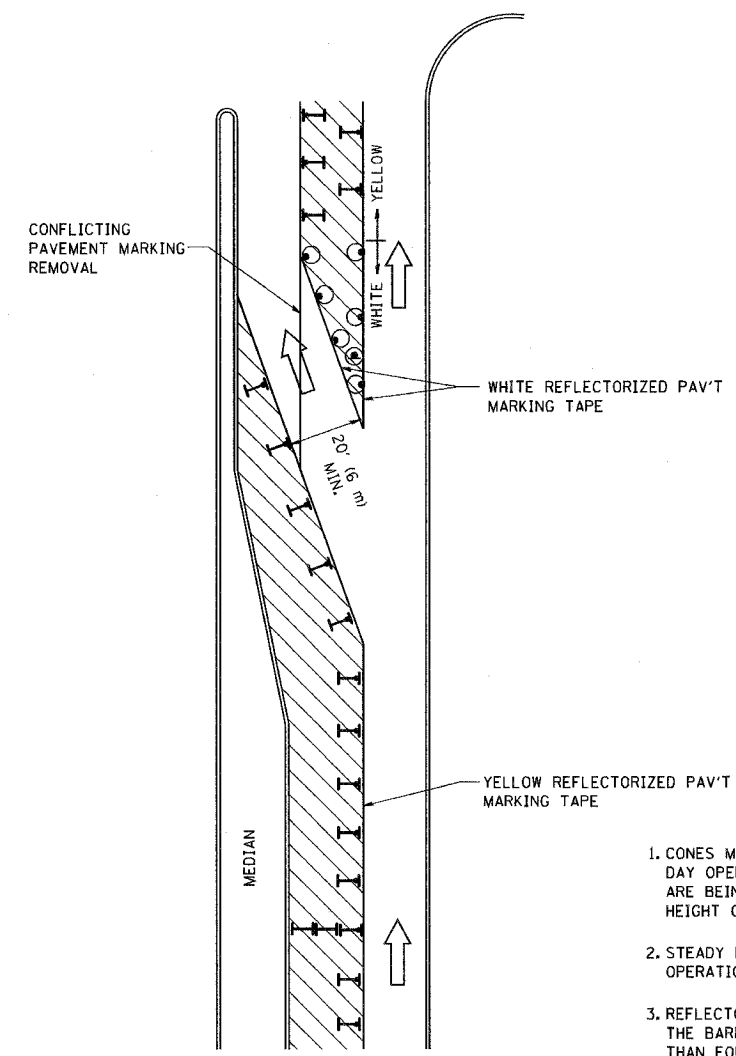
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD
CHECKED BY

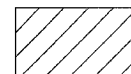





CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	538
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

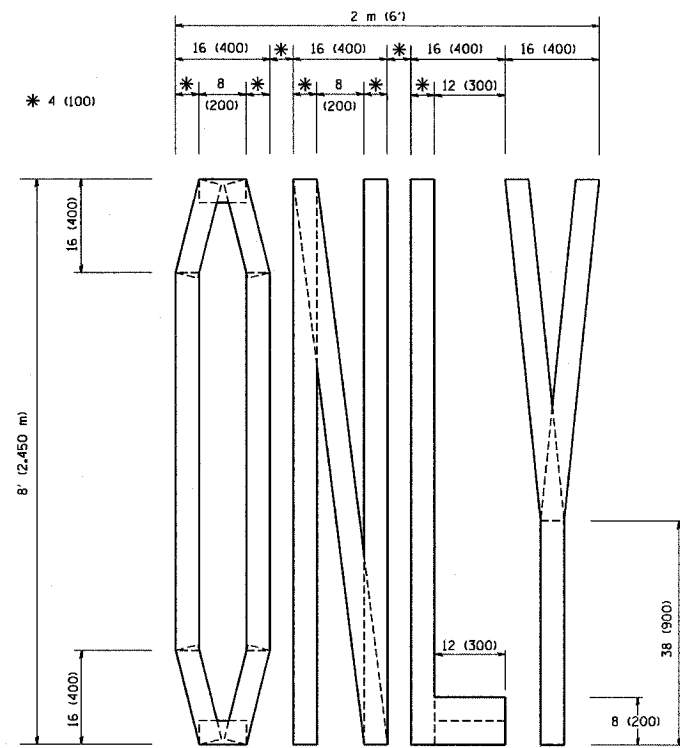
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

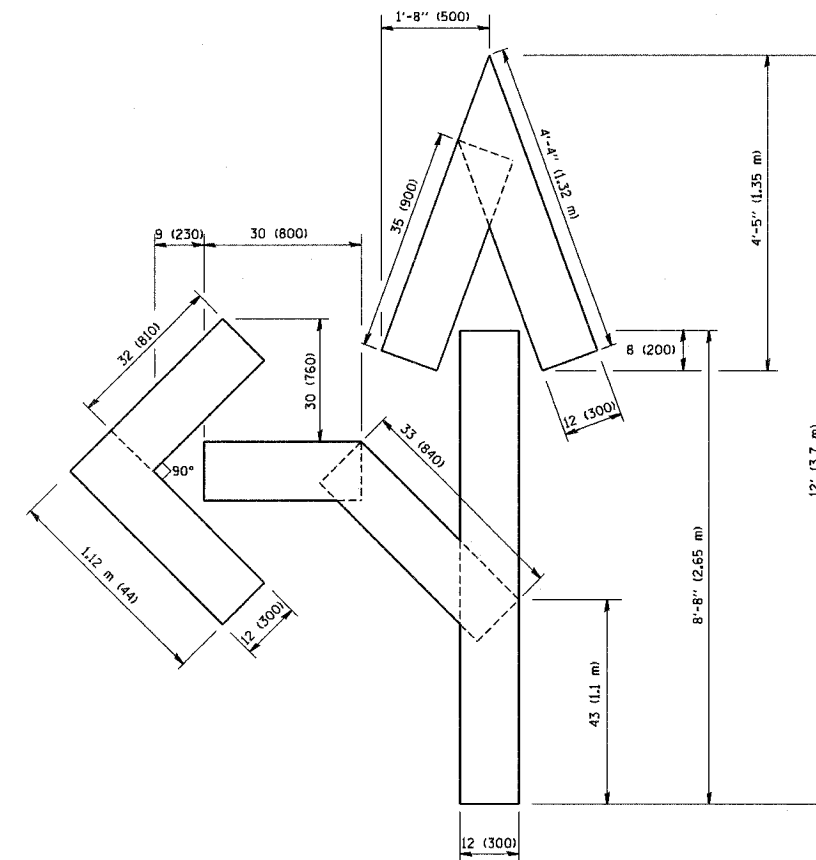
SCALE: NONE
 DRAWN BY
 CHECKED BY LHA
 TC-14

PLOT DATE = 3/5/2007
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = bmaur-d

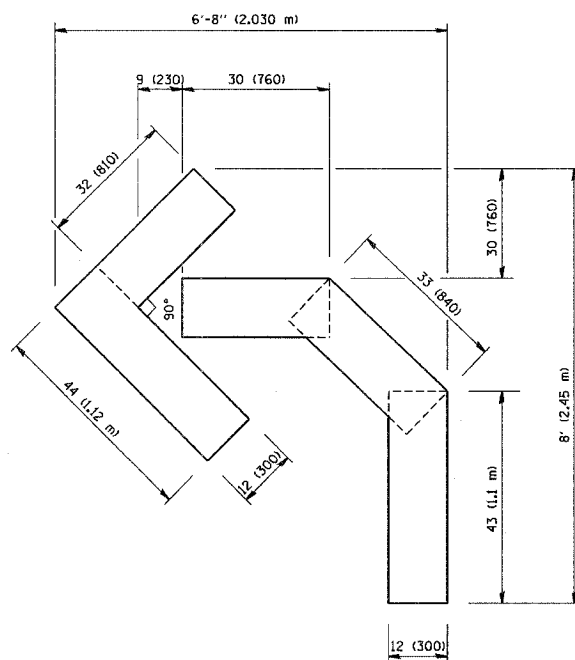
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	539
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-16

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			579	540
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

PLOT DATE = 3/4/2007
 PLOT SCALE = 80000 / IN.
 USER NAME = bauerd

REVISIONS	
NAME	DATE
C. JUCLIS	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

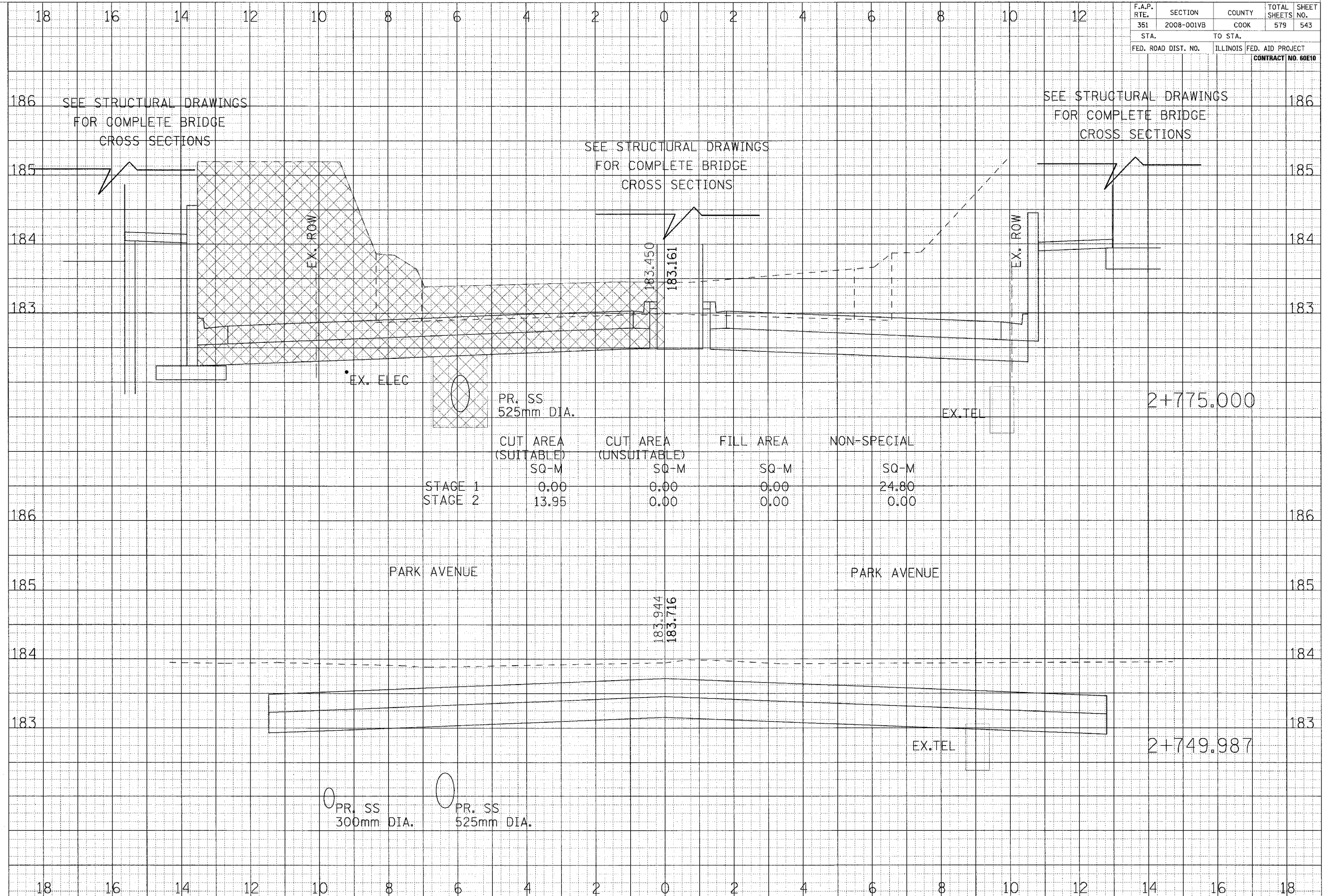
**DRIVEWAY ENTRANCE
SIGNING**

SCALE: NONE
 DATE
 DRAWN BY R.H.
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	543
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10

DATE _____ BY _____
 FINISHED SURVEY DATE _____
 SURVEY BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED _____
 SPECIAL CHECKED _____

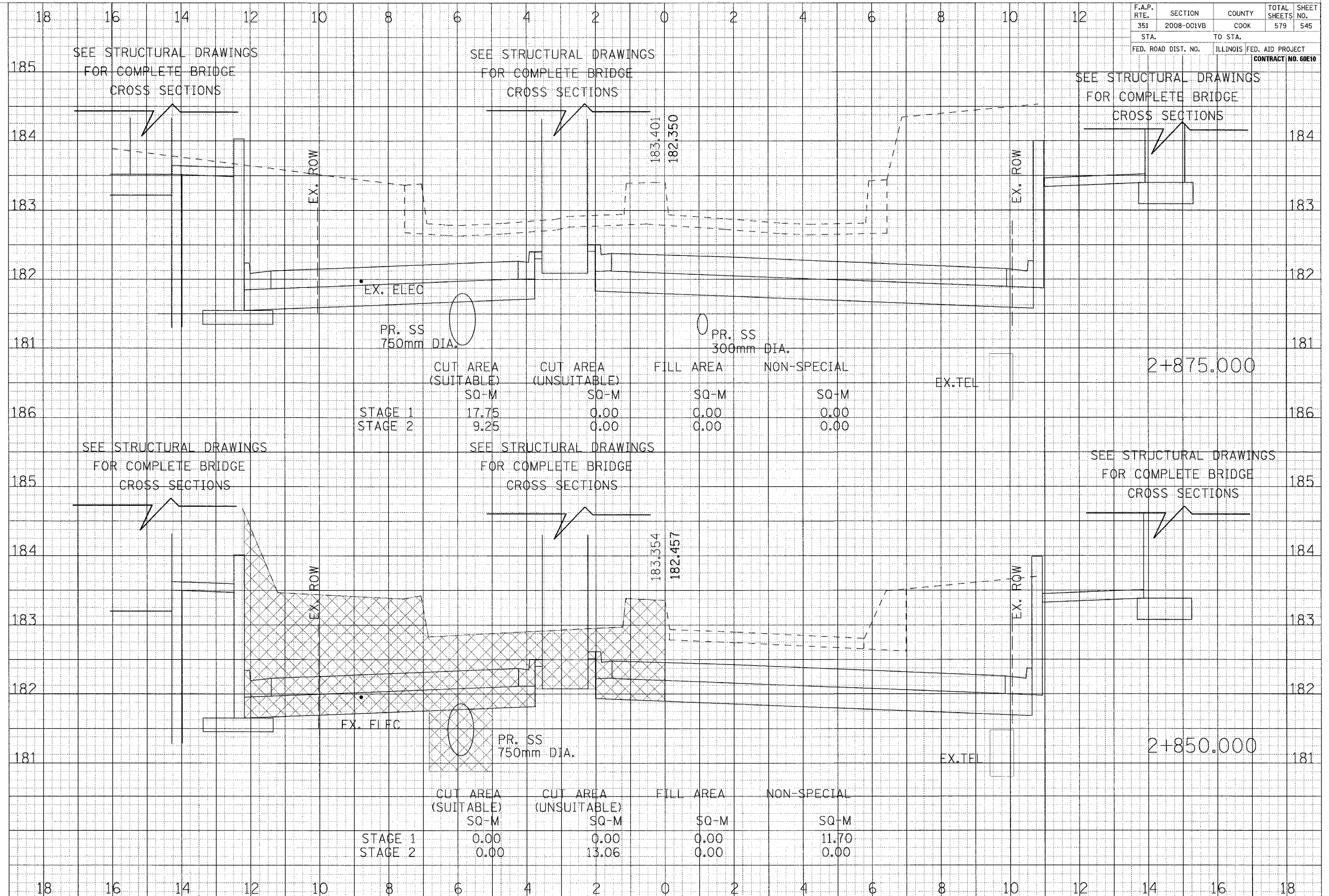
DATE _____ BY _____
 ORIGINAL SURVEY DATE _____
 SURVEY BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED _____
 SPECIAL CHECKED _____



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	545
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60E10				

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY



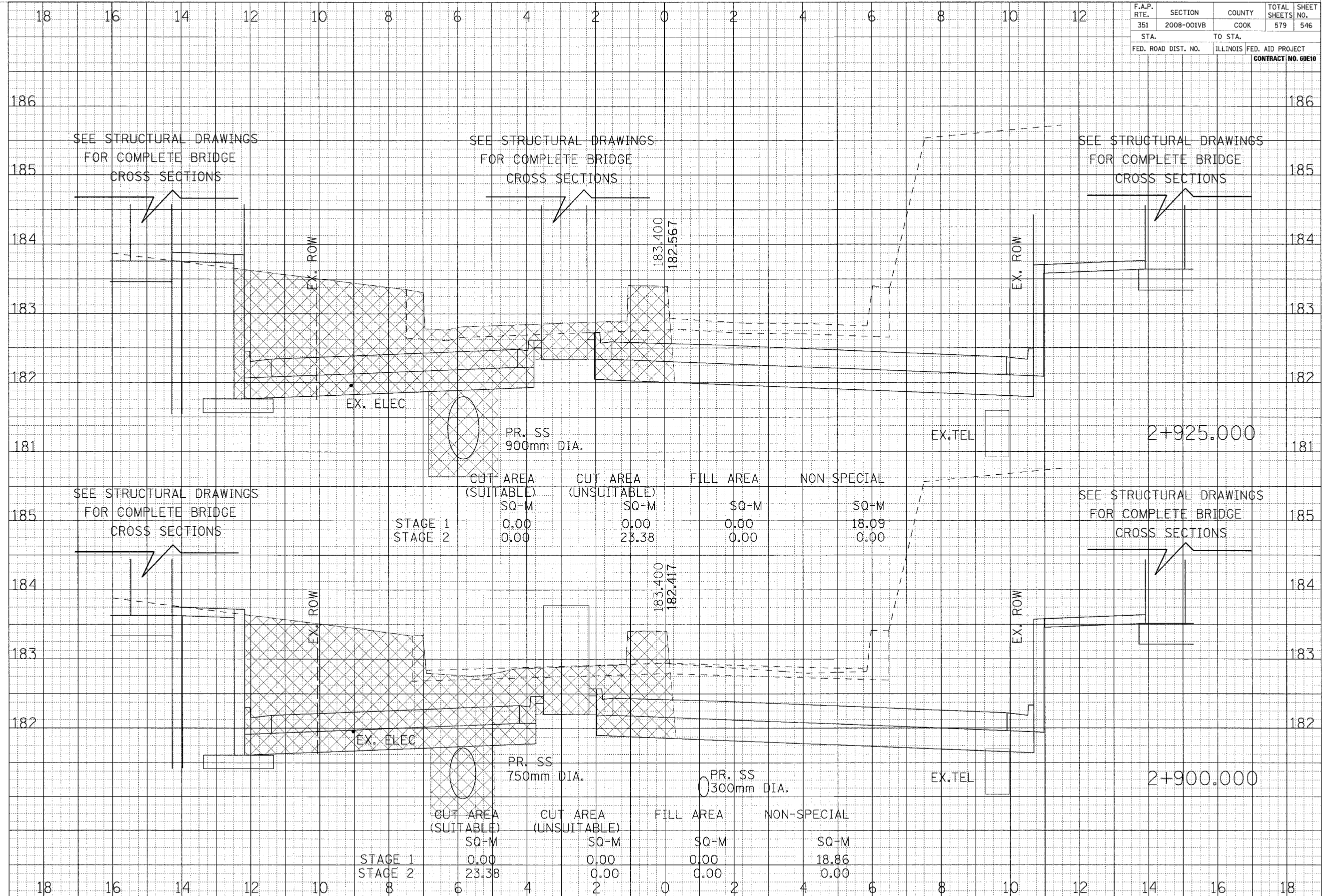
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	17.75	0.00	0.00	0.00
STAGE 2	9.25	0.00	0.00	0.00

	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.00	0.00	0.00	11.70
STAGE 2	0.00	13.06	0.00	0.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	546
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

DATE	BY
FINISH SURVEYED	DATE
SAFETY	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEYED	DATE
SAFETY	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.00	0.00	0.00	18.09
STAGE 2	0.00	23.38	0.00	0.00

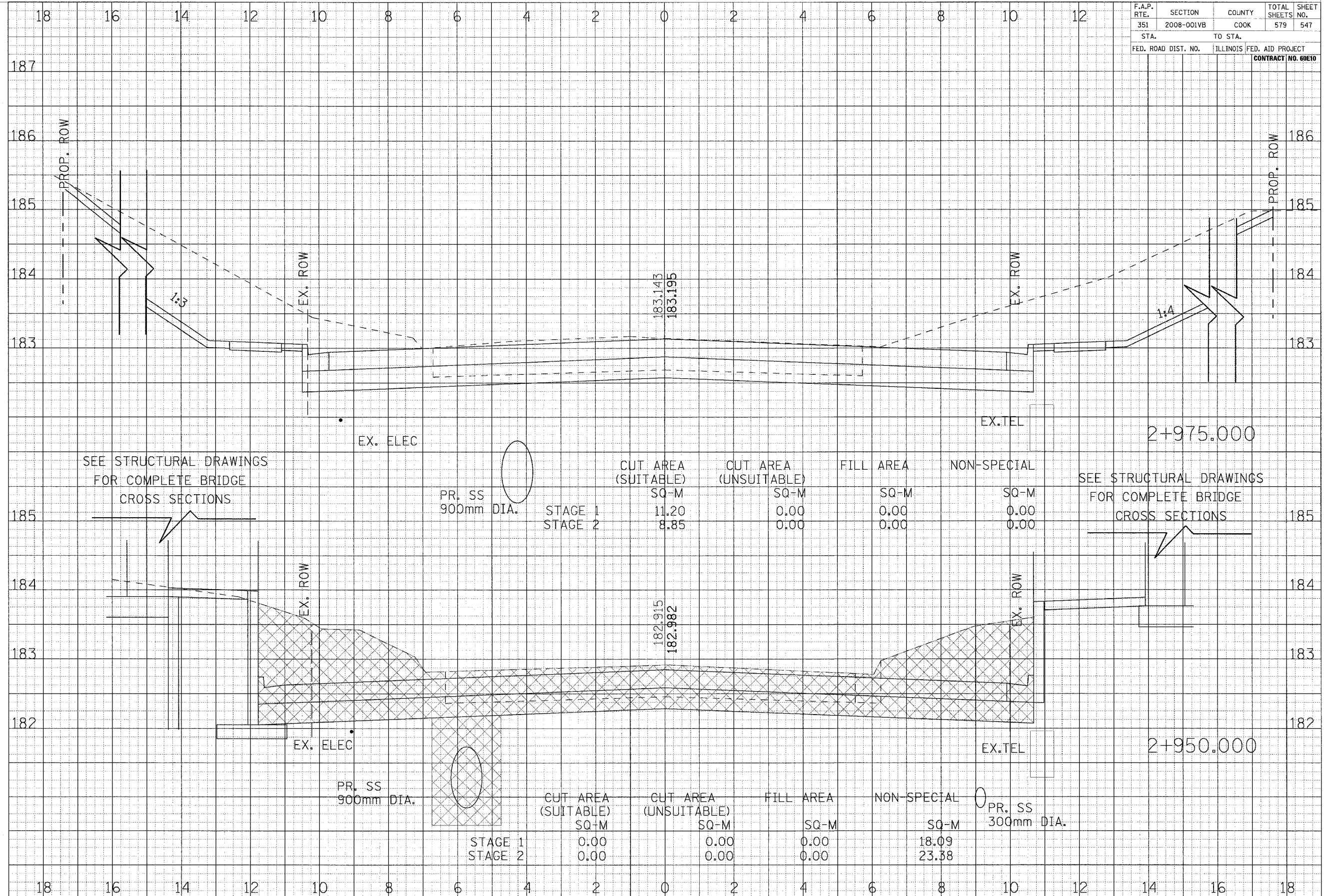
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.00	0.00	0.00	18.86
STAGE 2	23.38	0.00	0.00	0.00

CROSS SECTIONS - US ROUTE 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-001VB	COOK	579	547
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10

FINAL SURVEY BY DATE
 SURVEYED BY
 NOTE BOOK NO.
 TEMPLATE NO.
 AREAS CHECKED
 NO. _____

ORIGINAL SURVEY BY DATE
 SURVEYED BY
 NOTE BOOK NO.
 TEMPLATE NO.
 AREAS CHECKED
 NO. _____



	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	11.20	0.00	0.00	0.00
STAGE 2	8.85	0.00	0.00	0.00

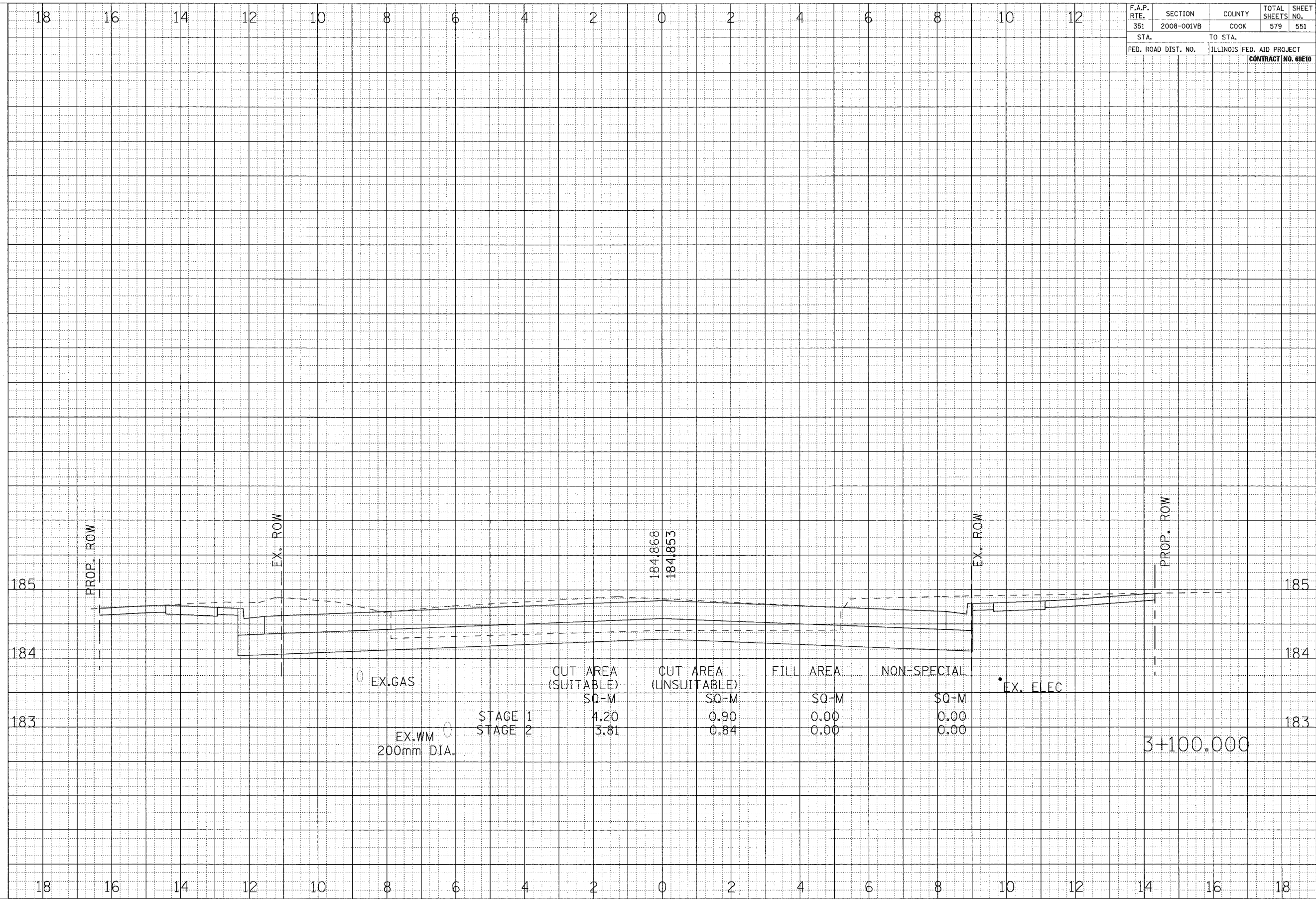
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.00	0.00	0.00	18.09
STAGE 2	0.00	0.00	0.00	23.38

CROSS SECTIONS - US ROUTE 6

FINAL SURVEY
 SURVEYED BY _____ DATE _____
 NOTE BOOK TEMPLATE AREAS CHECKED
 NO. _____

ORIGINAL SURVEY
 SURVEYED BY _____ DATE _____
 NOTE BOOK TEMPLATE AREAS CHECKED
 NO. _____

F.A.P. RTE. 351	SECTION 2008-001VB	COUNTY COOK	TOTAL SHEETS 579	SHEET NO. 551
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

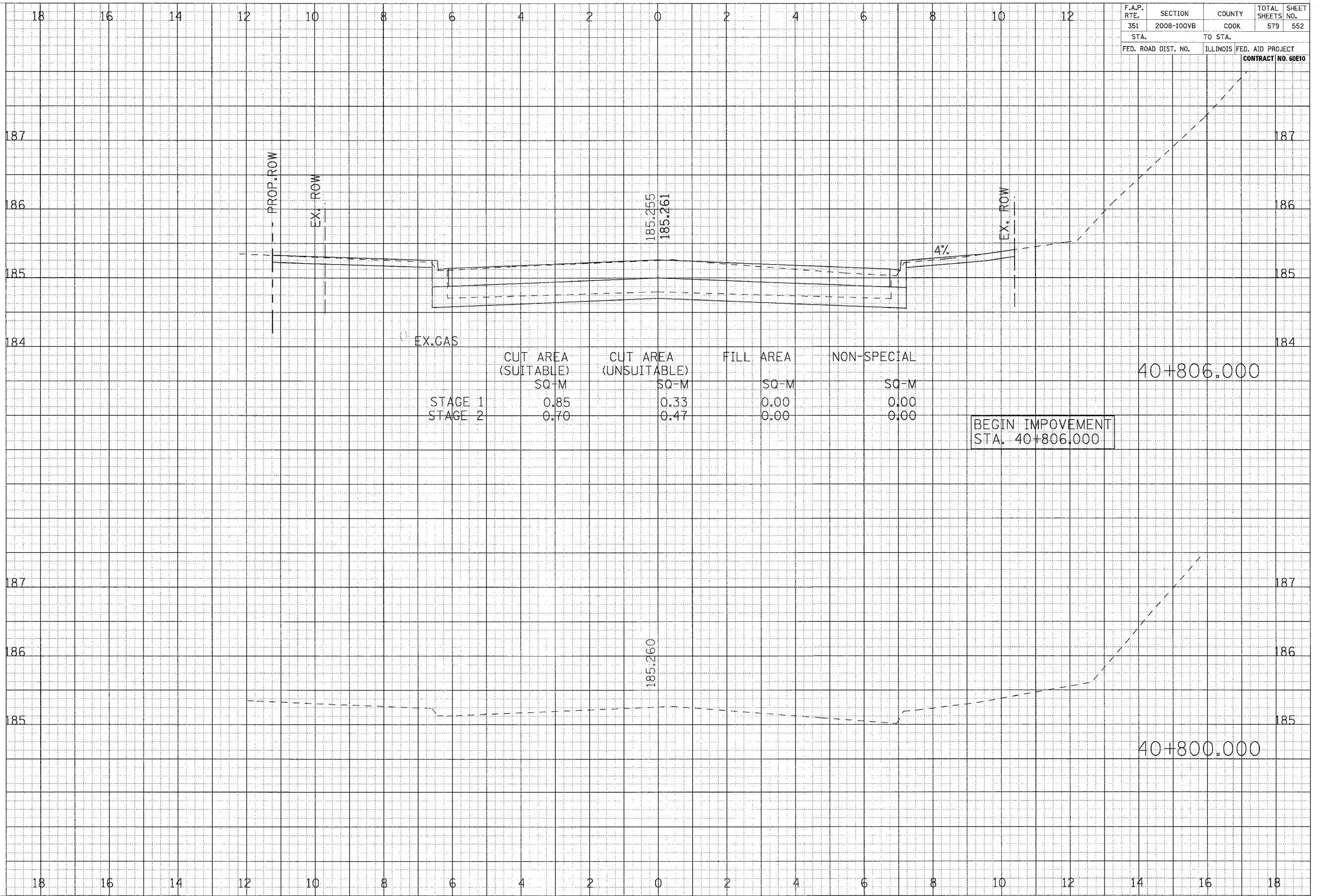


CROSS SECTIONS - US ROUTE 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	552
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	553
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

DATE: _____ BY: _____

FINISHED SURVEY NOTE BOOK NO. _____

REVISIONS: _____

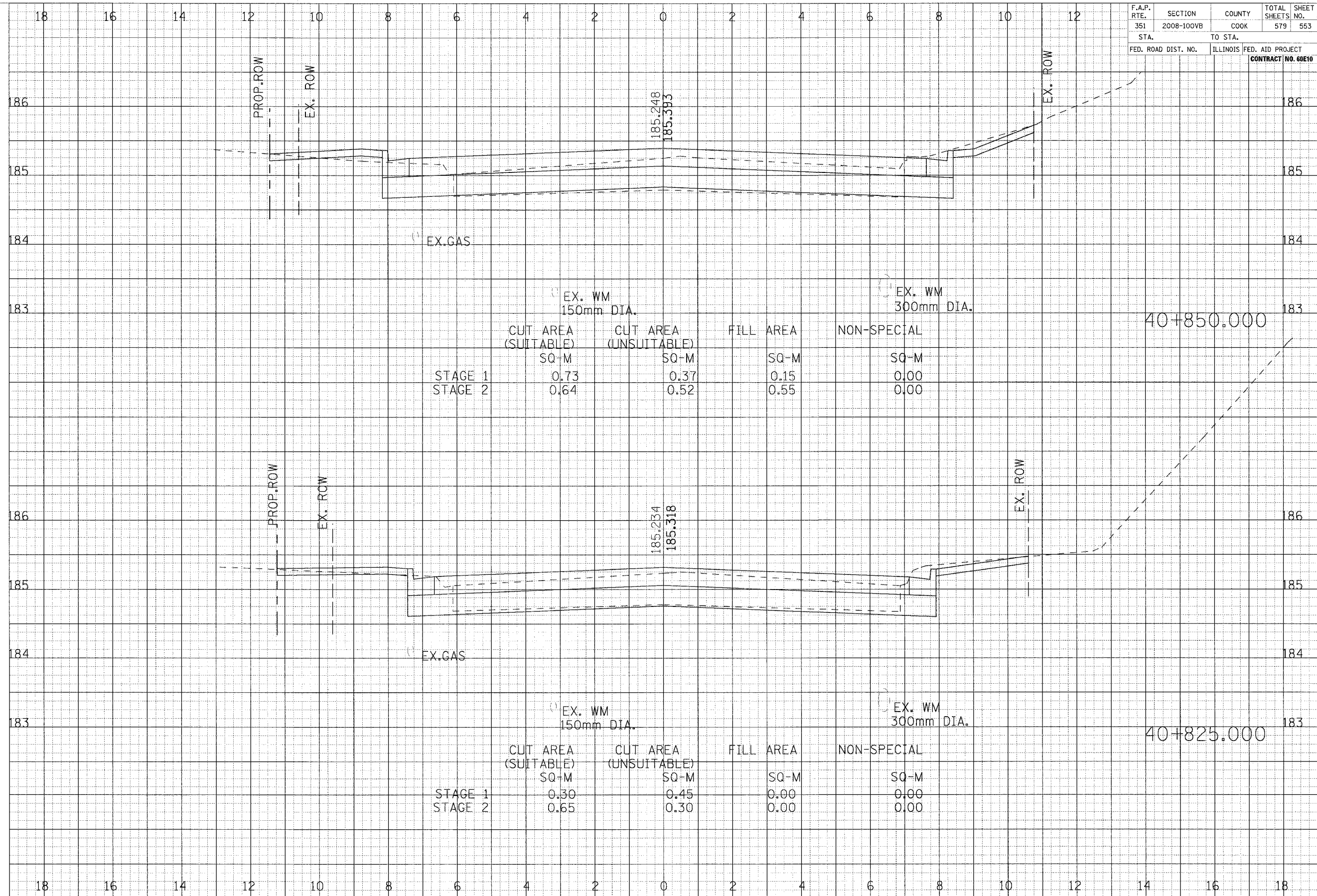
PLEASE CHECKED: _____

DATE: _____ BY: _____

ORIGINAL SURVEY NOTE BOOK NO. _____

REVISIONS: _____

AREAS CHECKED: _____

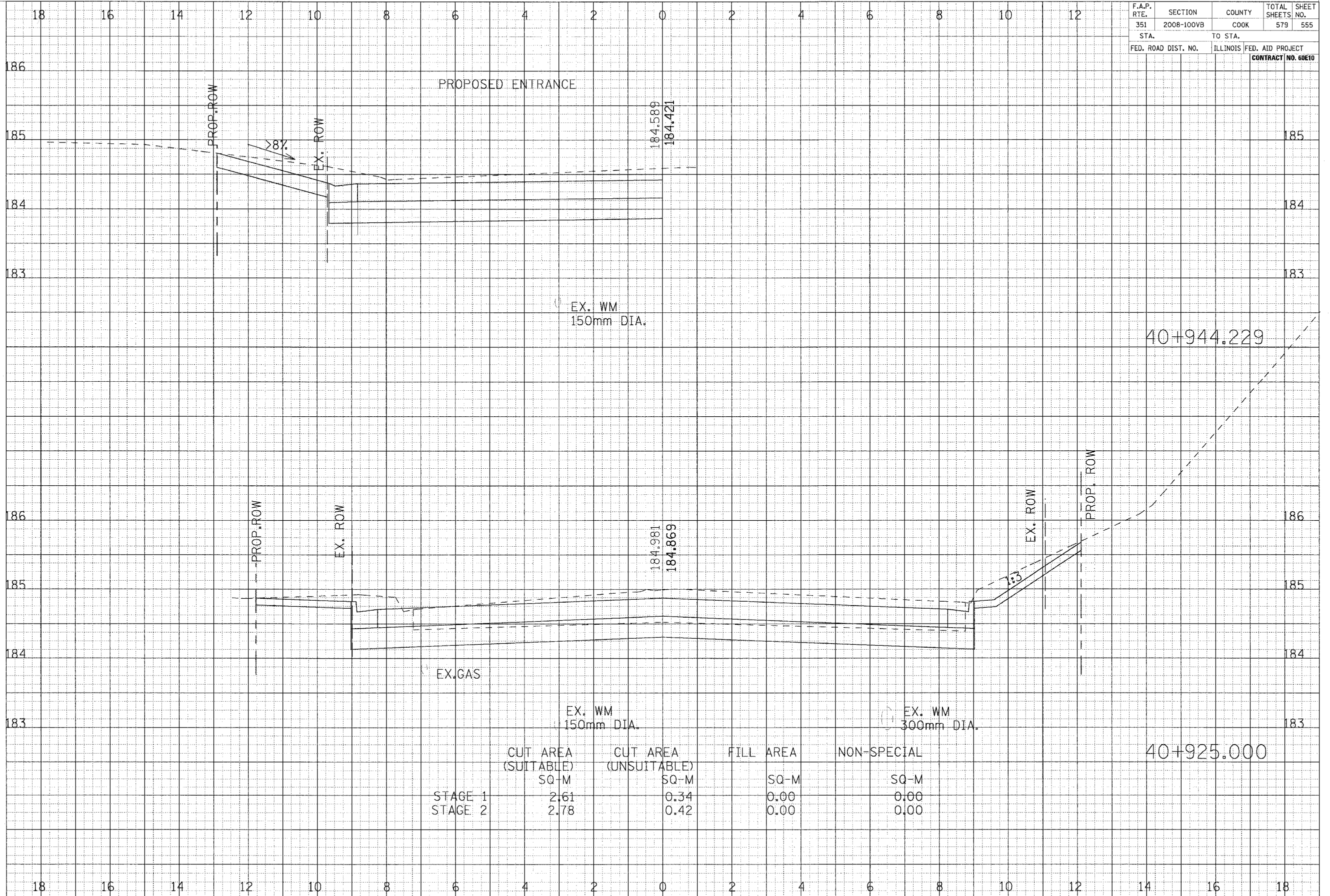


CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	555
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60E10		

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY



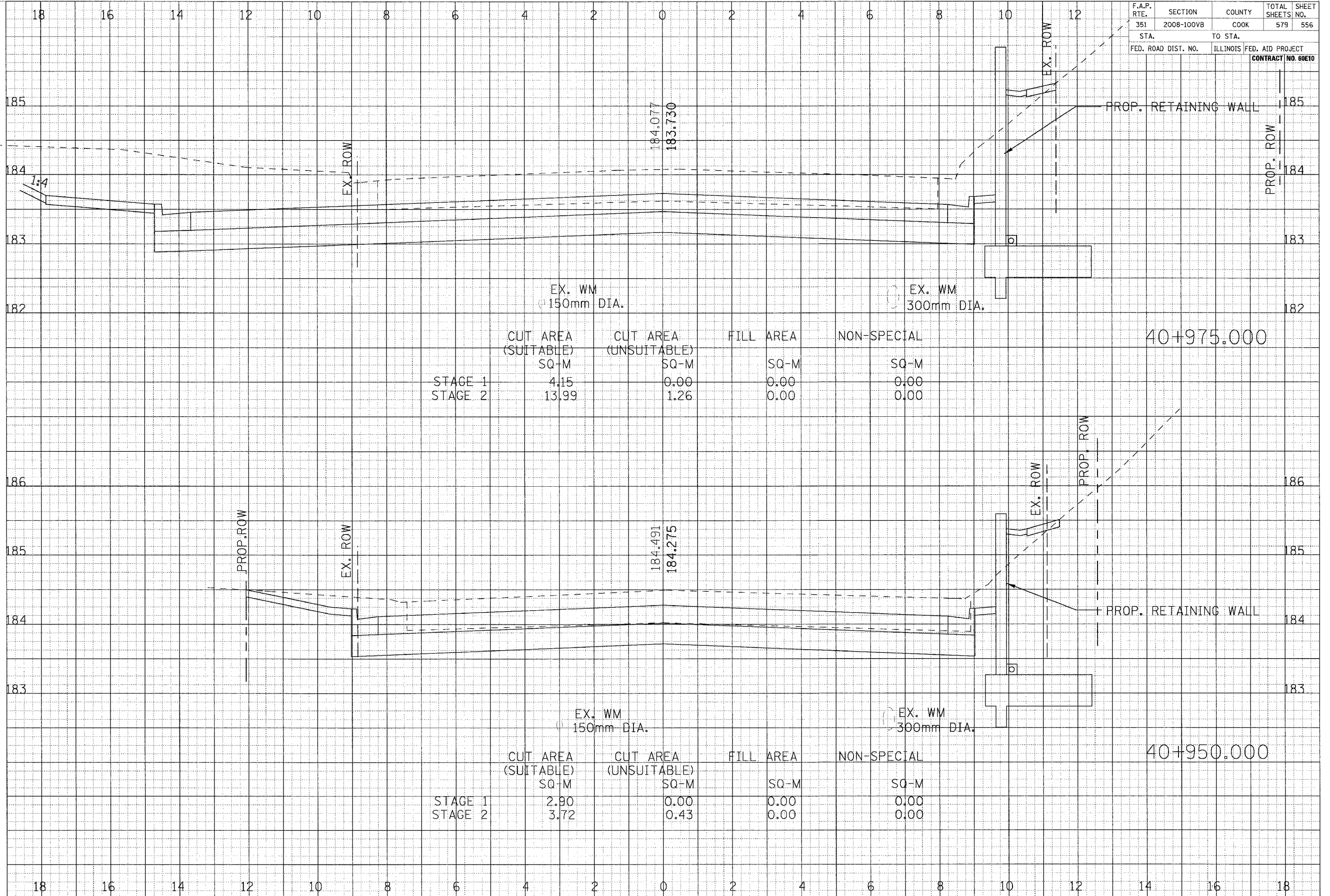
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	2.61	0.34	0.00	0.00
STAGE 2	2.78	0.42	0.00	0.00

CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100V8	COOK	579	556
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY



	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	4.15	0.00	0.00	0.00
STAGE 2	13.99	1.26	0.00	0.00

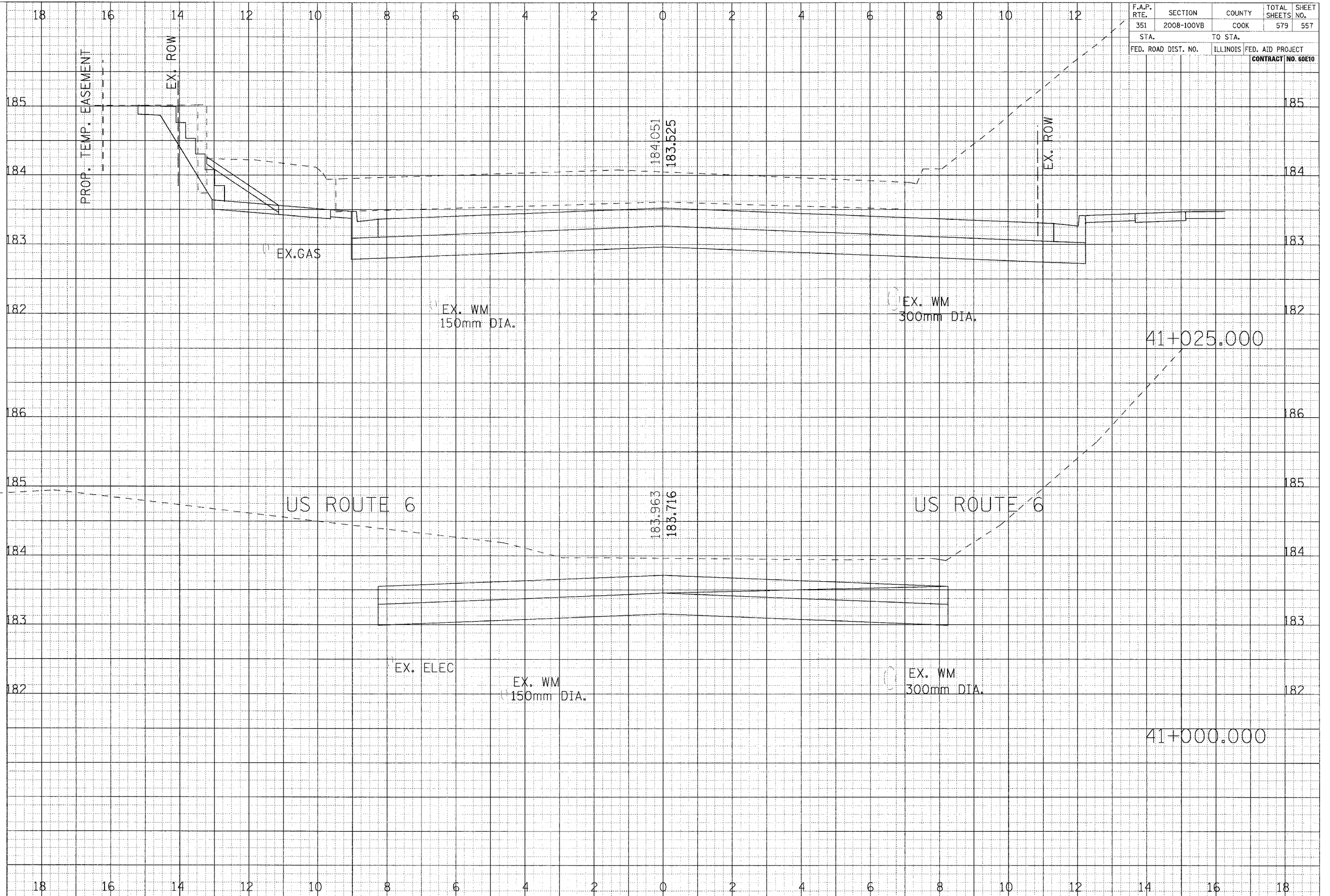
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	2.90	0.00	0.00	0.00
STAGE 2	3.72	0.43	0.00	0.00

CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	557
STA.	TO STA.		FED. AID PROJECT	
			ILLINOIS	
FED. ROAD DIST. NO.			CONTRACT NO. 60E10	

FINAL SURVEY	BY	DATE
NOTED		
REVISIONS		

ORIGINAL SURVEY	BY	DATE
NOTED		
REVISIONS		

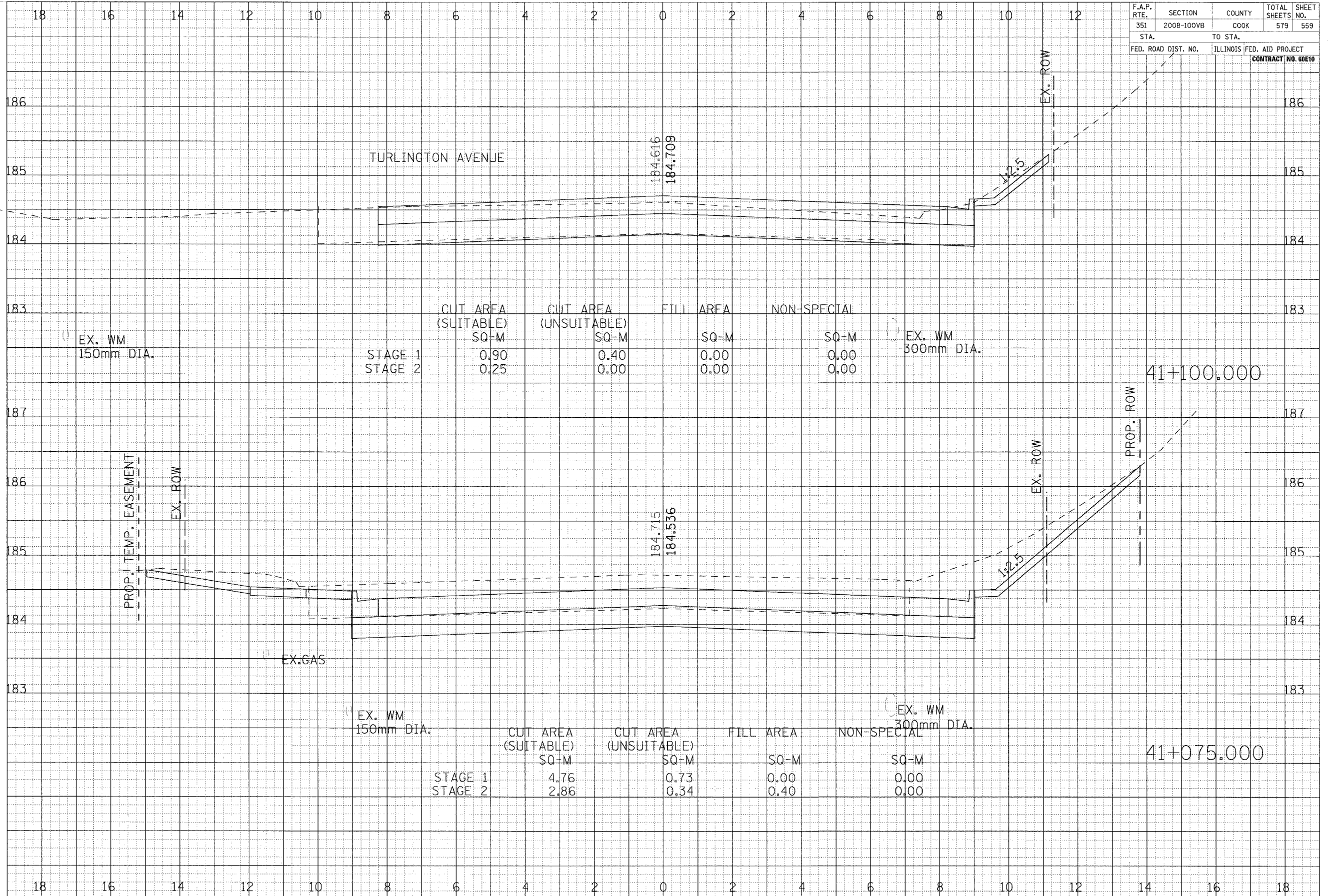


CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	559
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 60E10	

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

ORIGINAL SURVEY	BY	DATE
SURVEY		
PLOTTED		
REPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



TURLINGTON AVENUE

	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.90	0.40	0.00	0.00
STAGE 2	0.25	0.00	0.00	0.00

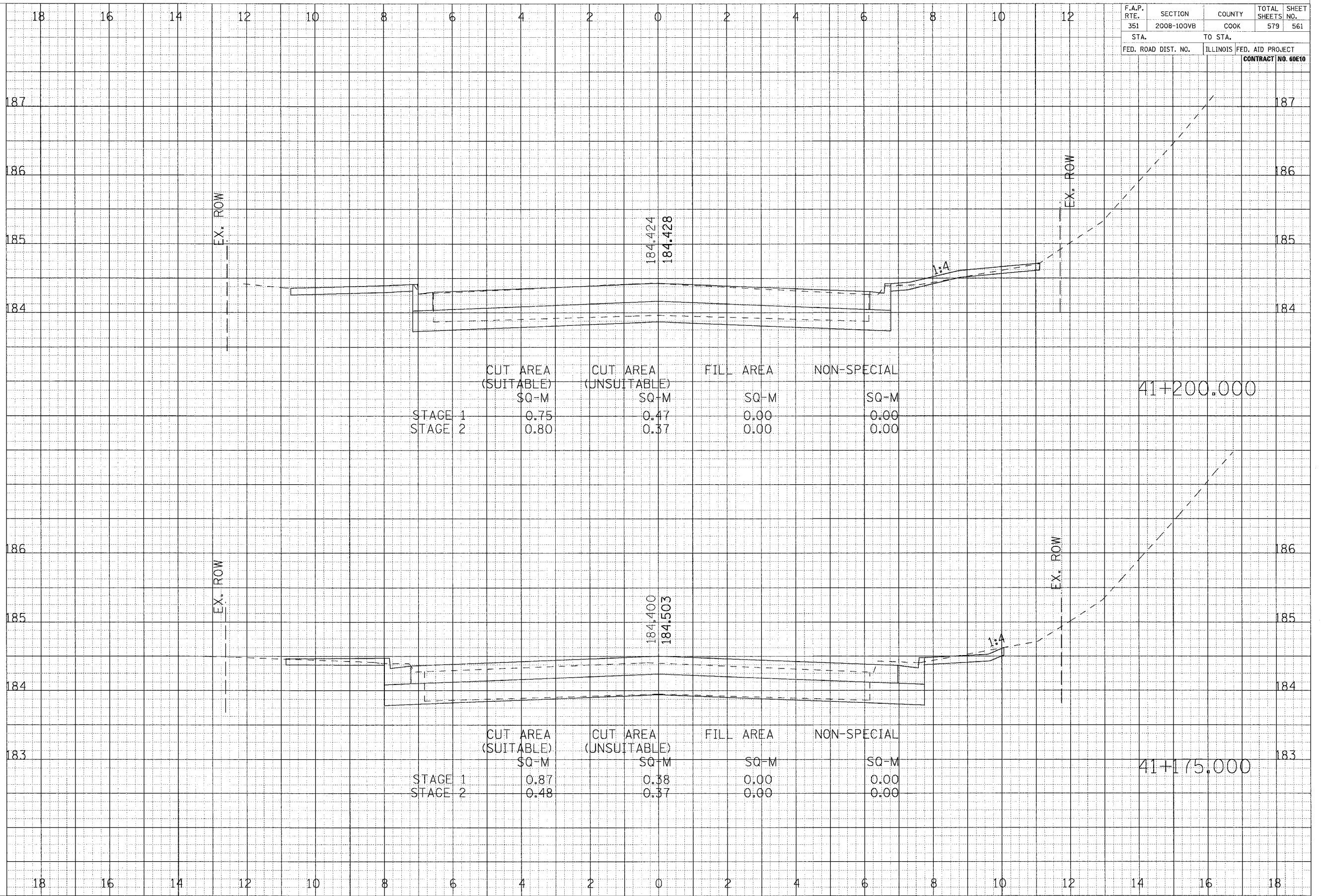
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	4.76	0.73	0.00	0.00
STAGE 2	2.86	0.34	0.40	0.00

CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	561
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			CONTRACT NO. 60E10	

FINAL SURVEY	SUPERVED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SUPERVED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.75	0.47	0.00	0.00
STAGE 2	0.80	0.37	0.00	0.00

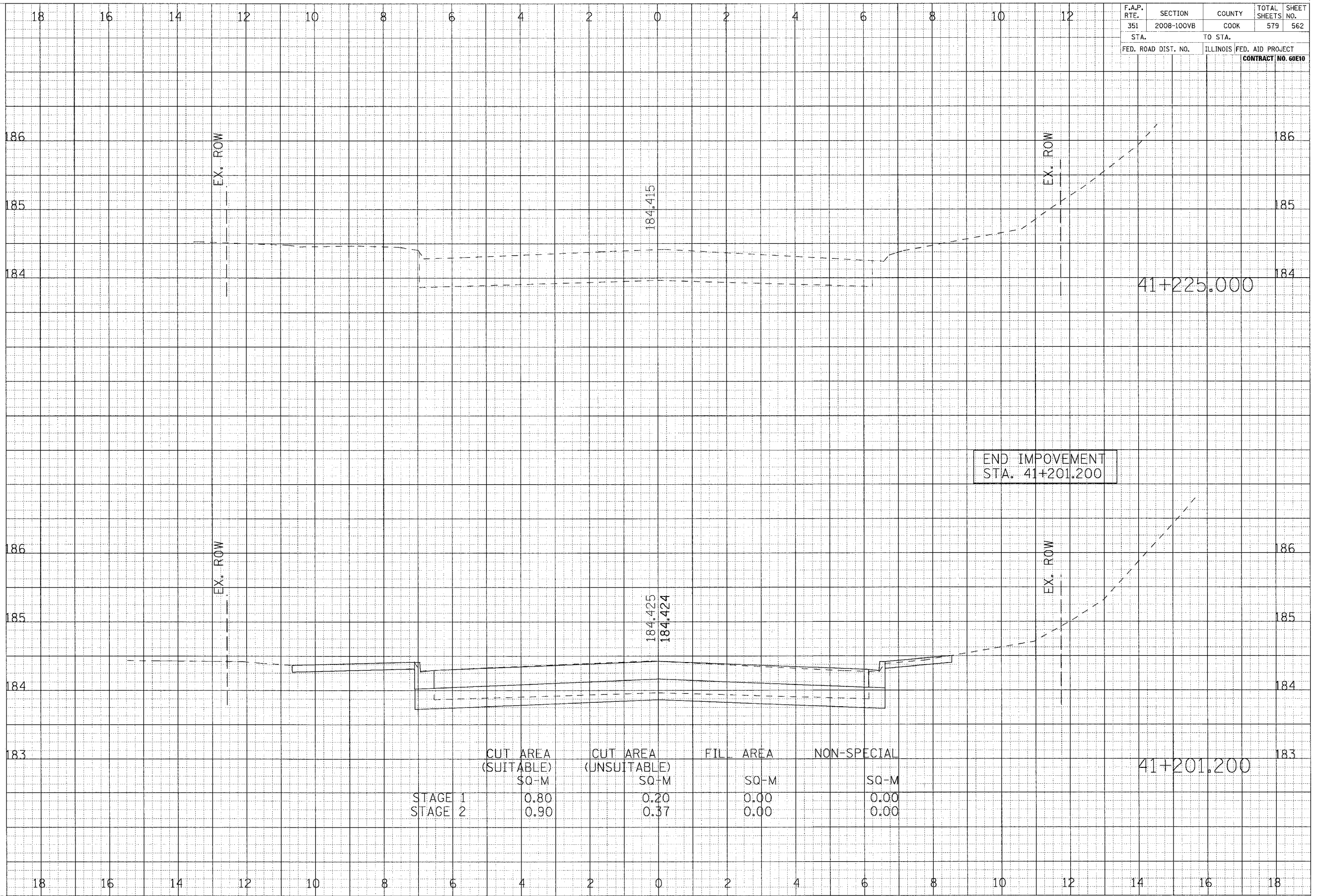
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.87	0.38	0.00	0.00
STAGE 2	0.48	0.37	0.00	0.00

CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	562
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60E10	

FINAL SURVEY	SUPPLIED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SUPPLIED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



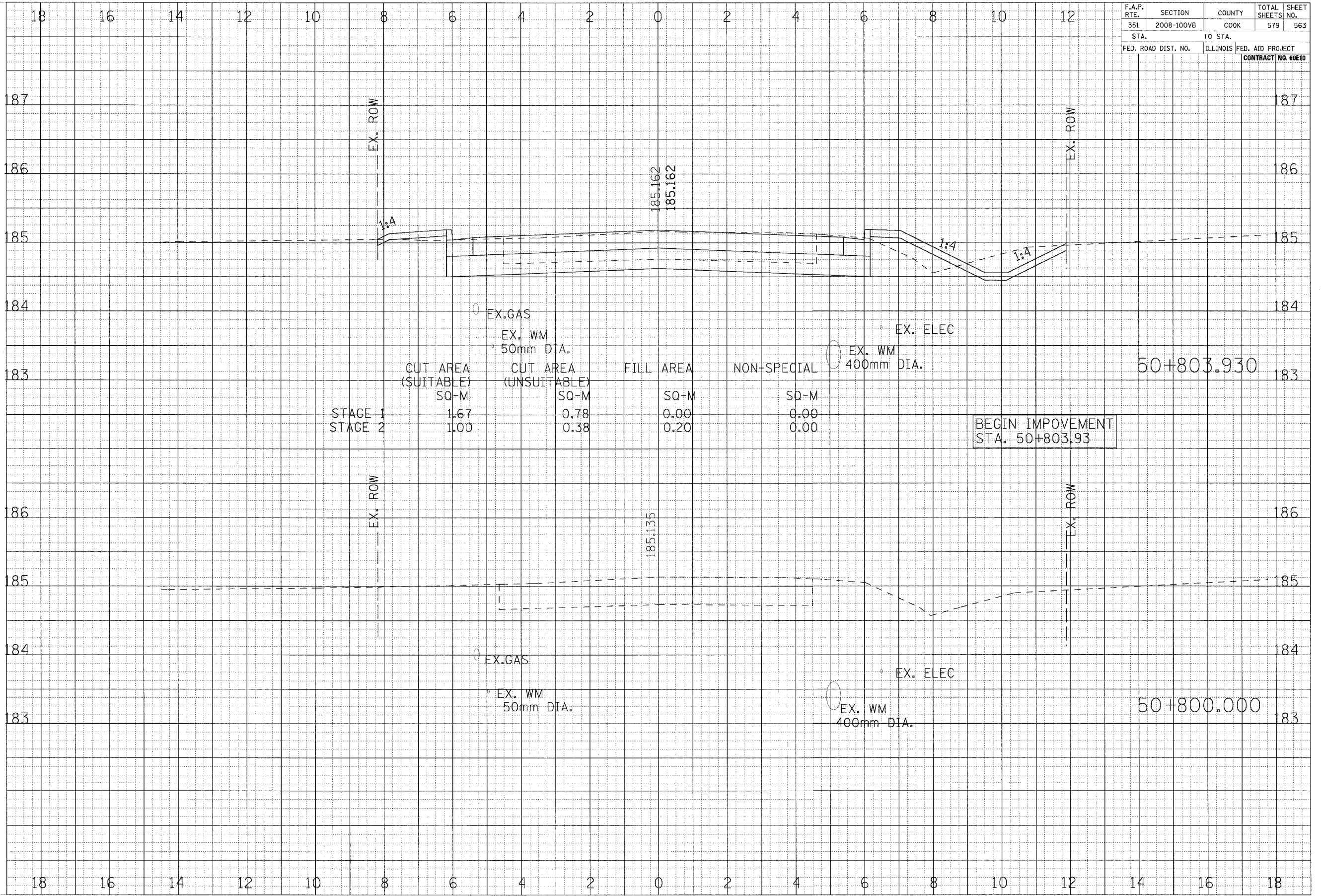
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.80	0.20	0.00	0.00
STAGE 2	0.90	0.37	0.00	0.00

CROSS SECTIONS - PARK AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100V8	COOK	579	563
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60E10		

FINISH SURVEY
 SURVEYED BY: _____
 PLOTTED BY: _____
 REVISIONS BY: _____
 DATE: _____
 NO. _____
 AREAS CHECKED: _____

ORIGINAL SURVEY
 SURVEYED BY: _____
 PLOTTED BY: _____
 REVISIONS BY: _____
 DATE: _____
 NO. _____
 AREAS CHECKED: _____

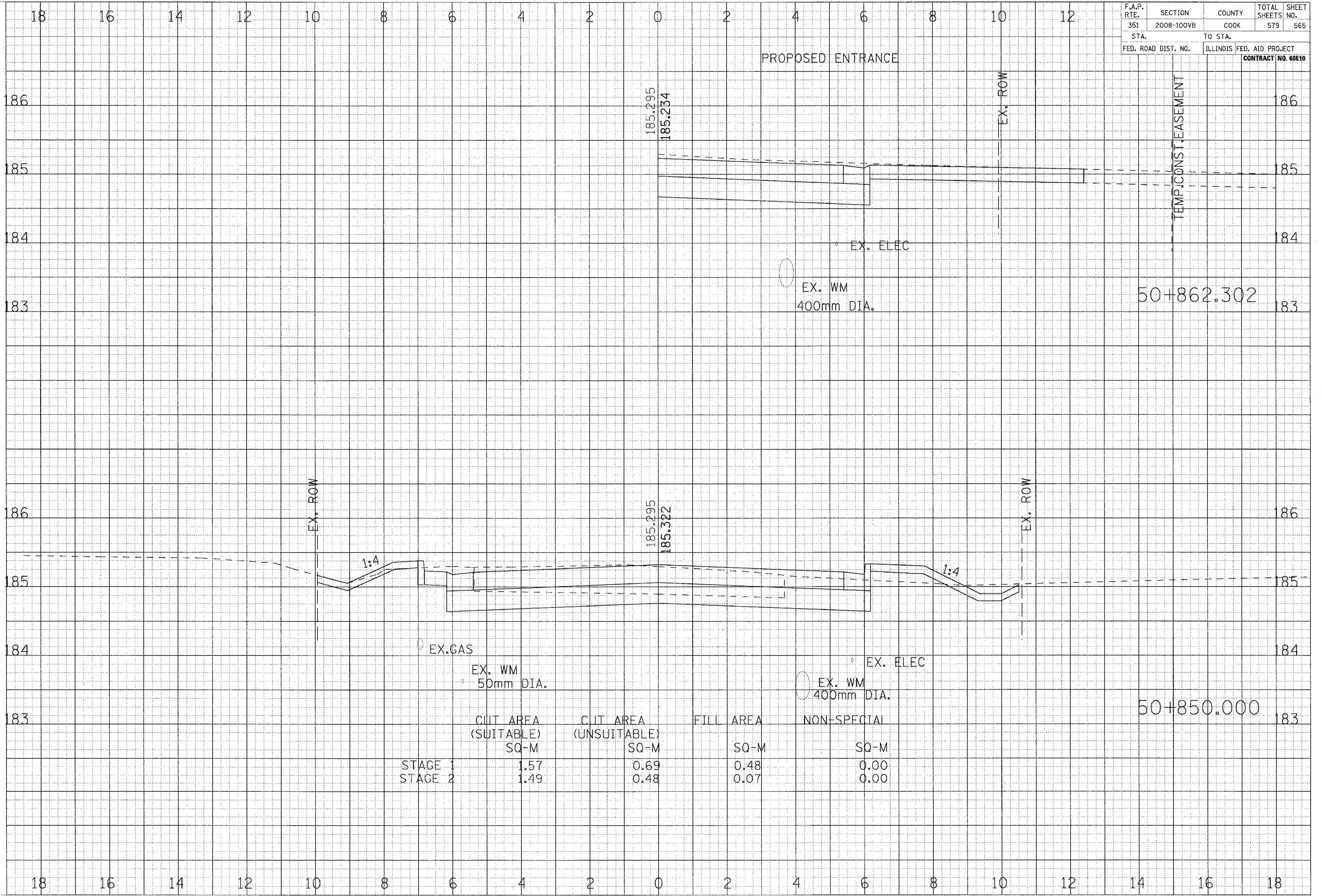


CROSS SECTIONS - CENTER STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	565
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

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

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	
NOTE BOOK	REPLATE	
NO.	AREAS CHECKED	



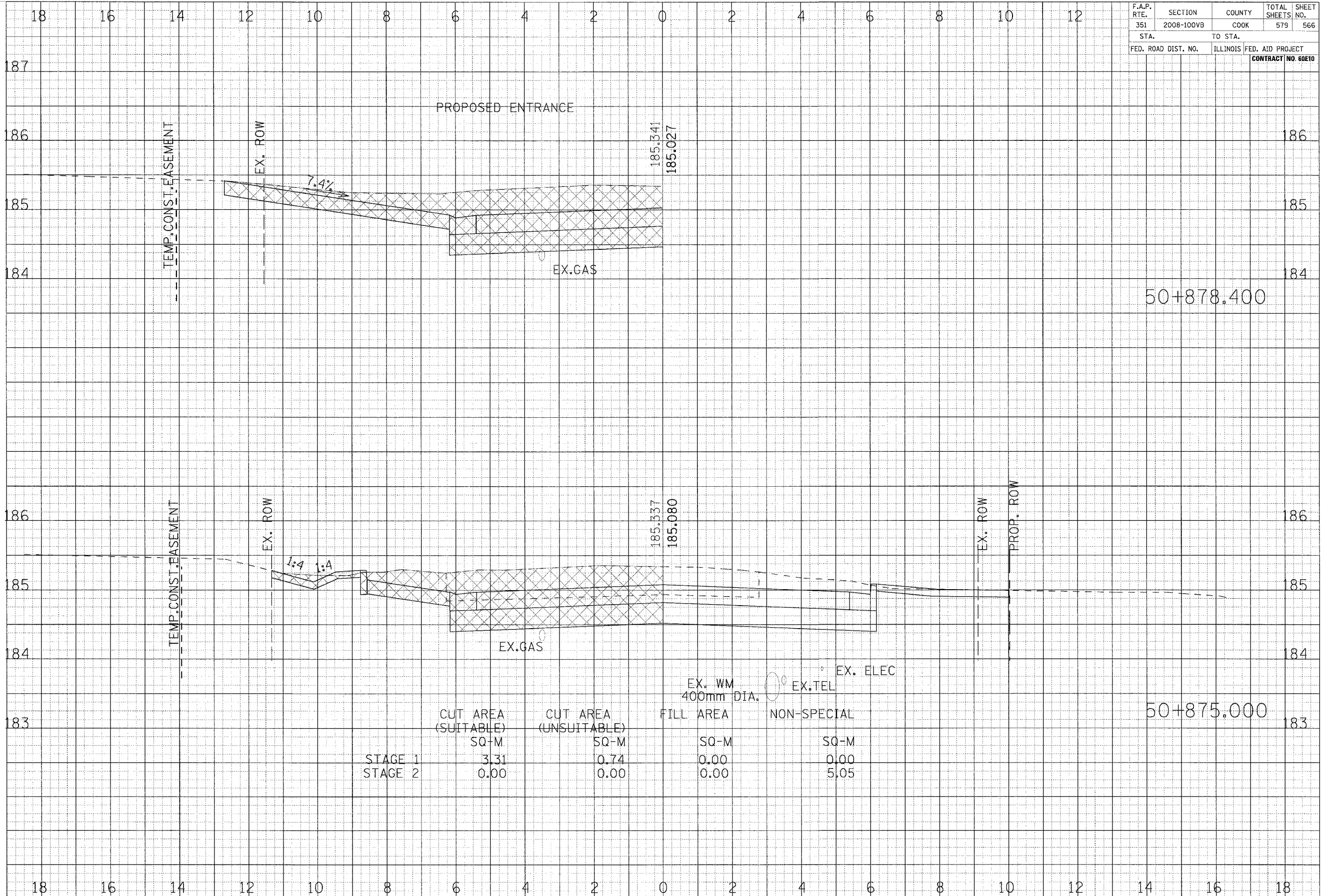
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	1.57	0.69	0.48	0.00
STAGE 2	1.49	0.48	0.07	0.00

CROSS SECTIONS - CENTER STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	566
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

FINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
PLANNED	
PLOTTED	
REPLACED	
AREAS CHECKED	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
PLANNED	
PLOTTED	
REPLACED	
AREAS CHECKED	



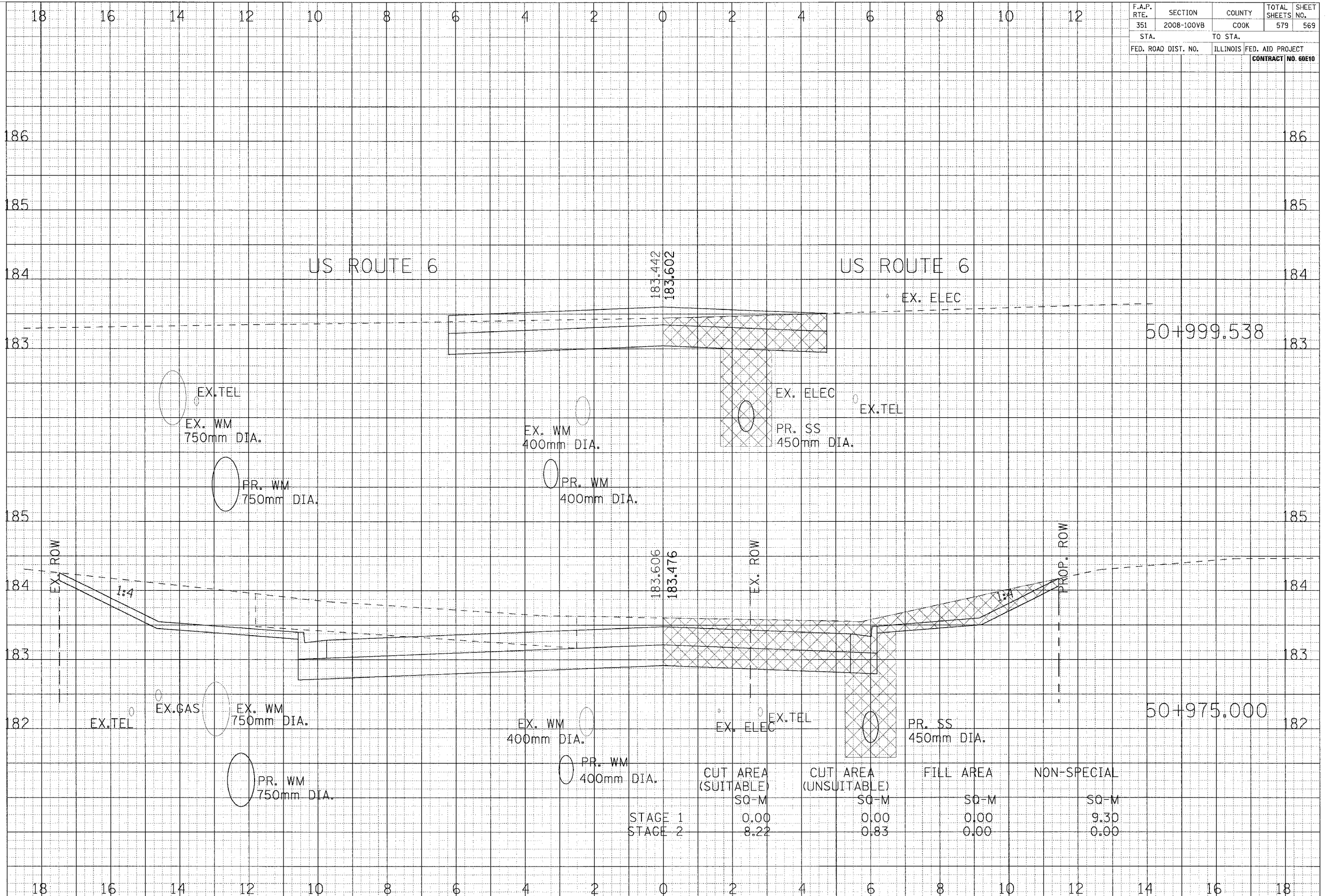
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	3.31	0.74	0.00	0.00
STAGE 2	0.00	0.00	0.00	5.05

CROSS SECTIONS - CENTER STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	569
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

FIN.	DATE
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

ORIG.	DATE
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



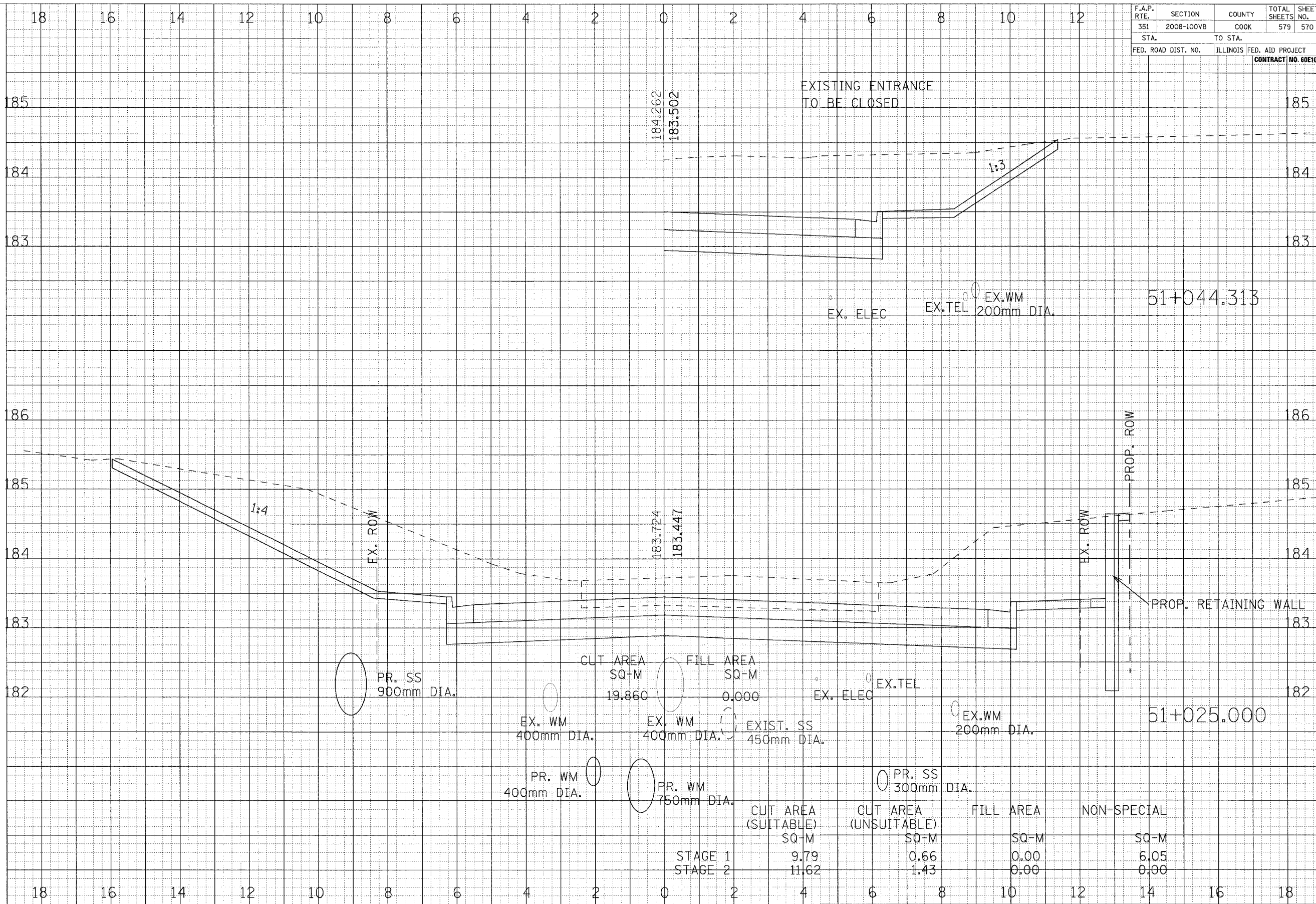
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	0.00	0.00	0.00	9.30
STAGE 2	8.22	0.83	0.00	0.00

CROSS SECTIONS - CENTER STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	570
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10

FINAL SURVEY	SUPERVISED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SUPERVISED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



EXISTING ENTRANCE
TO BE CLOSED

51+044.313

51+025.000

CUT AREA	FILL AREA
SQ-M	SQ-M
19.860	0.000

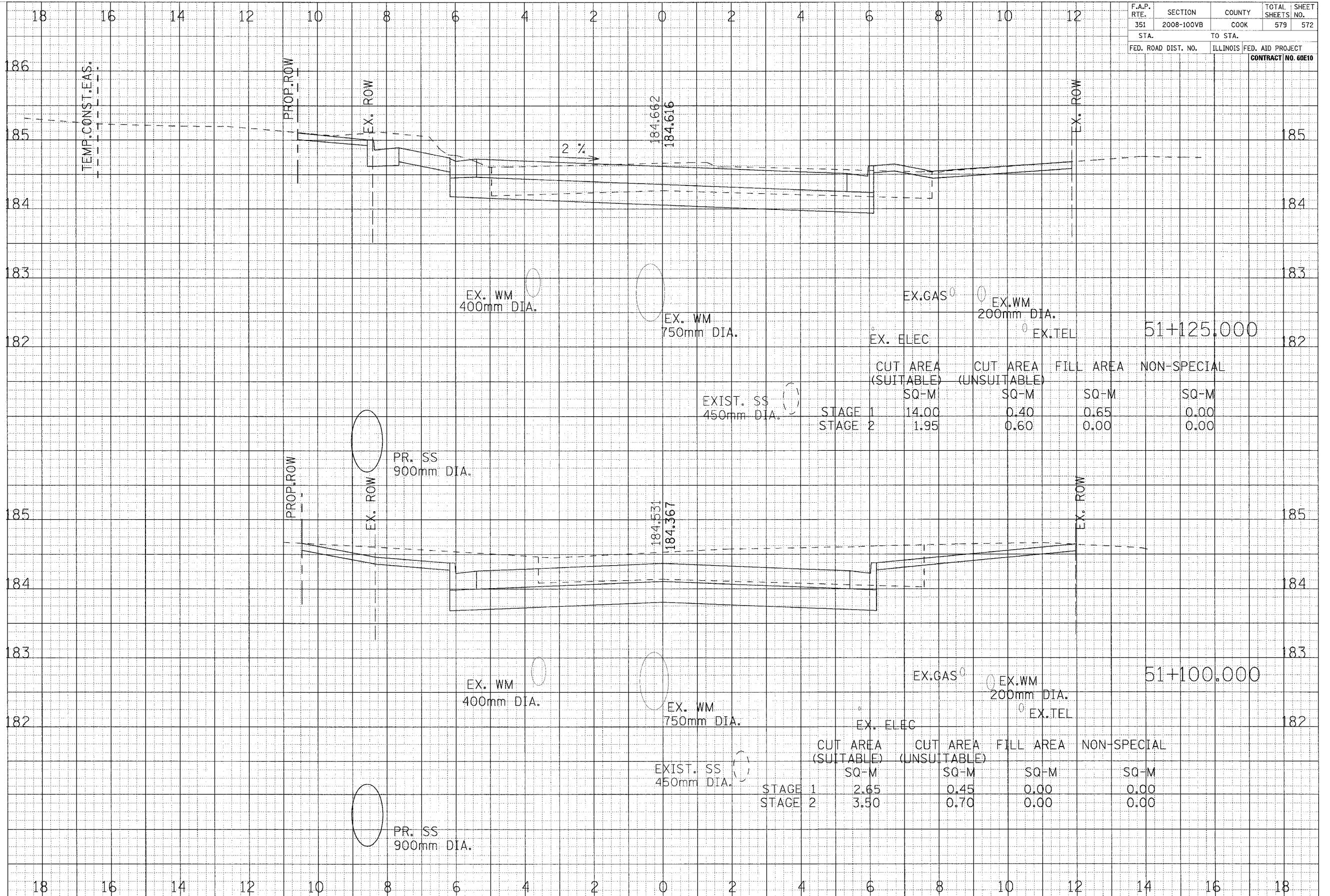
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	9.79	0.66	0.00	6.05
STAGE 2	11.62	1.43	0.00	0.00

CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	572
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

DATE	BY
FINISH SURVEY	REVISIONS
NOTE BOOK	PLOTTED
	TEMPERATURE
	AREAS CHECKED

DATE	BY
ORIGINAL SURVEY	REVISIONS
NOTE BOOK	PLOTTED
	TEMPERATURE
	AREAS CHECKED



51+125.000

	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	14.00	0.40	0.65	0.00
STAGE 2	1.95	0.60	0.00	0.00

51+100.000

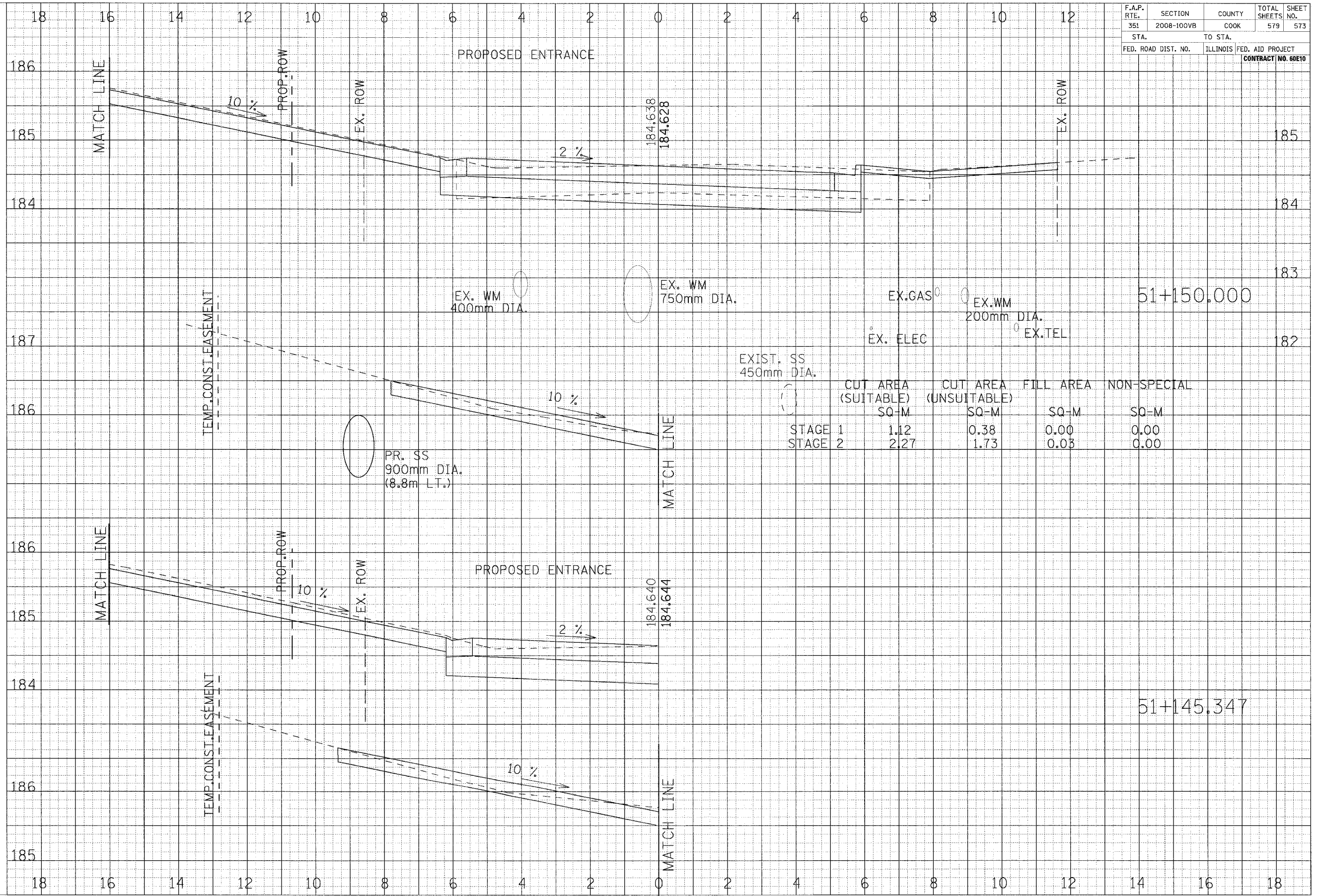
	CUT AREA (SUITABLE) SQ-M	CUT AREA (UNSUITABLE) SQ-M	FILL AREA SQ-M	NON-SPECIAL SQ-M
STAGE 1	2.65	0.45	0.00	0.00
STAGE 2	3.50	0.70	0.00	0.00

CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	573
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60E10		

FINAL SURVEY	REVISION	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMP. DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	REVISION	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMP. DATE	
	AREAS CHECKED	

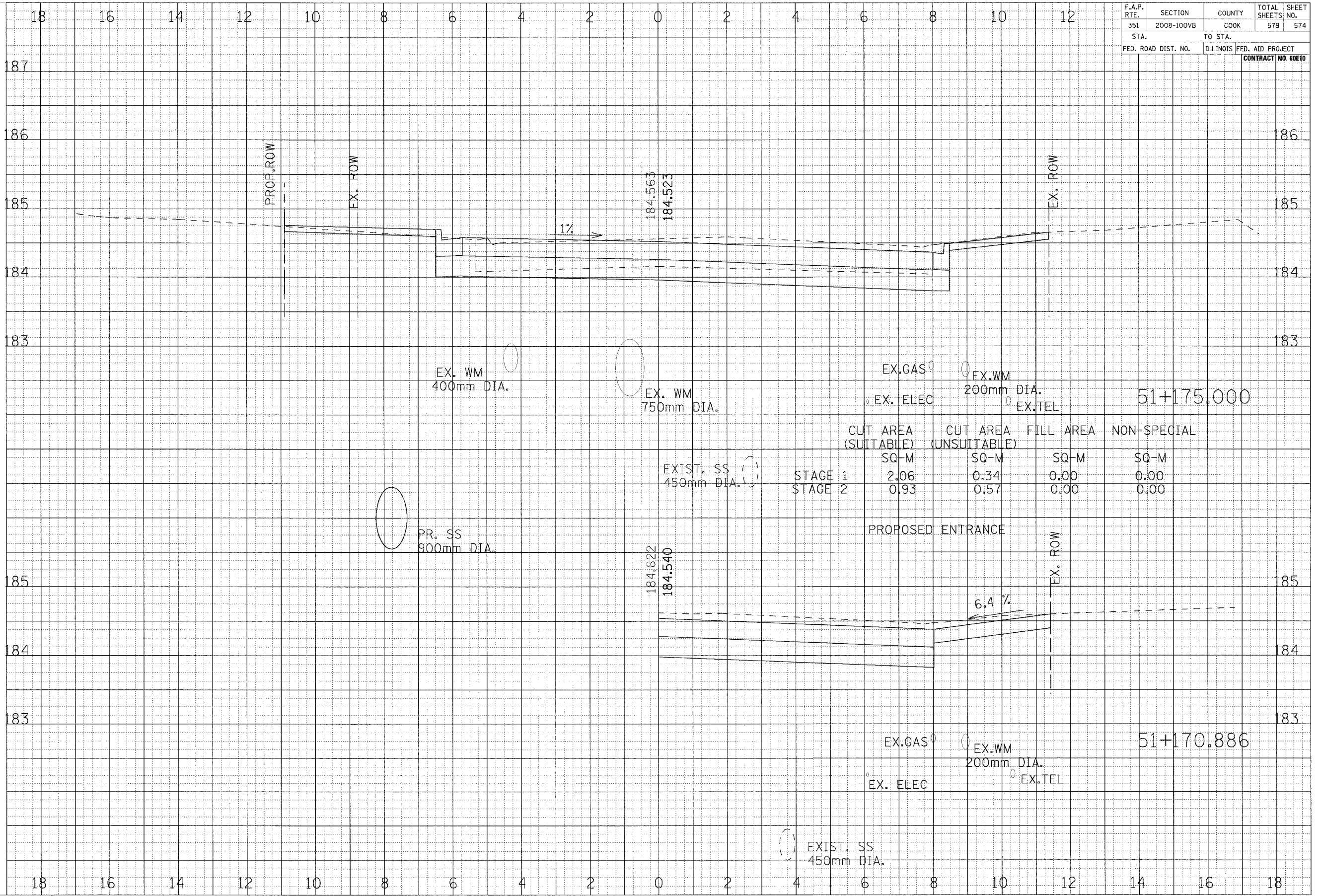


CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS: NO.
351	2008-100VB	COOK	579 574
STA.	TO STA.	FED. AID PROJECT	
		CONTRACT NO. 60E10	

DATE: _____ BY: _____
 SUPERVISED BY: _____
 FINISHED: _____
 SURVEY: _____
 PLOTTED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____
 NO. _____

DATE: _____ BY: _____
 SUPERVISED BY: _____
 FINISHED: _____
 SURVEY: _____
 PLOTTED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____
 NO. _____

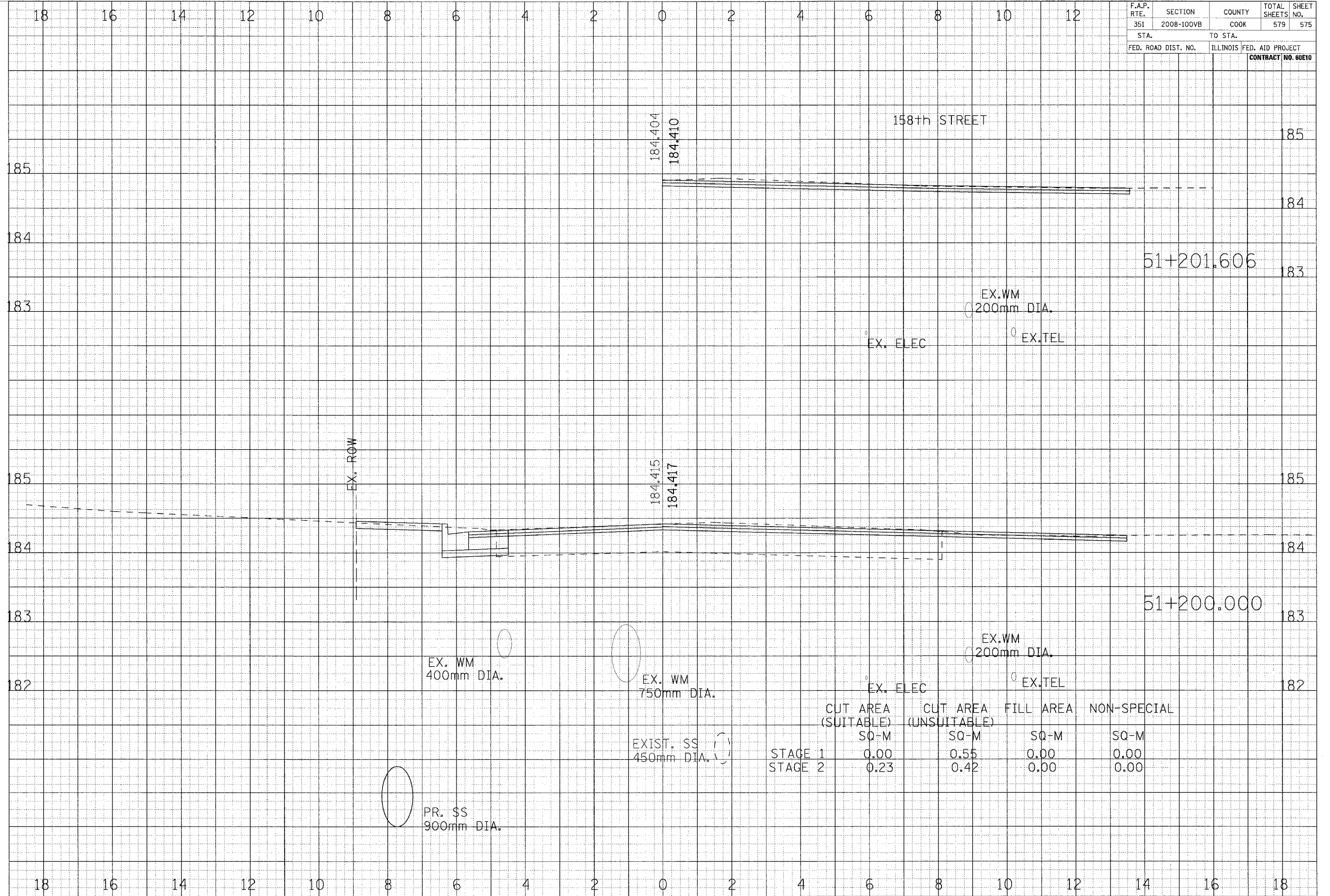


CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	575
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60E10	

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY



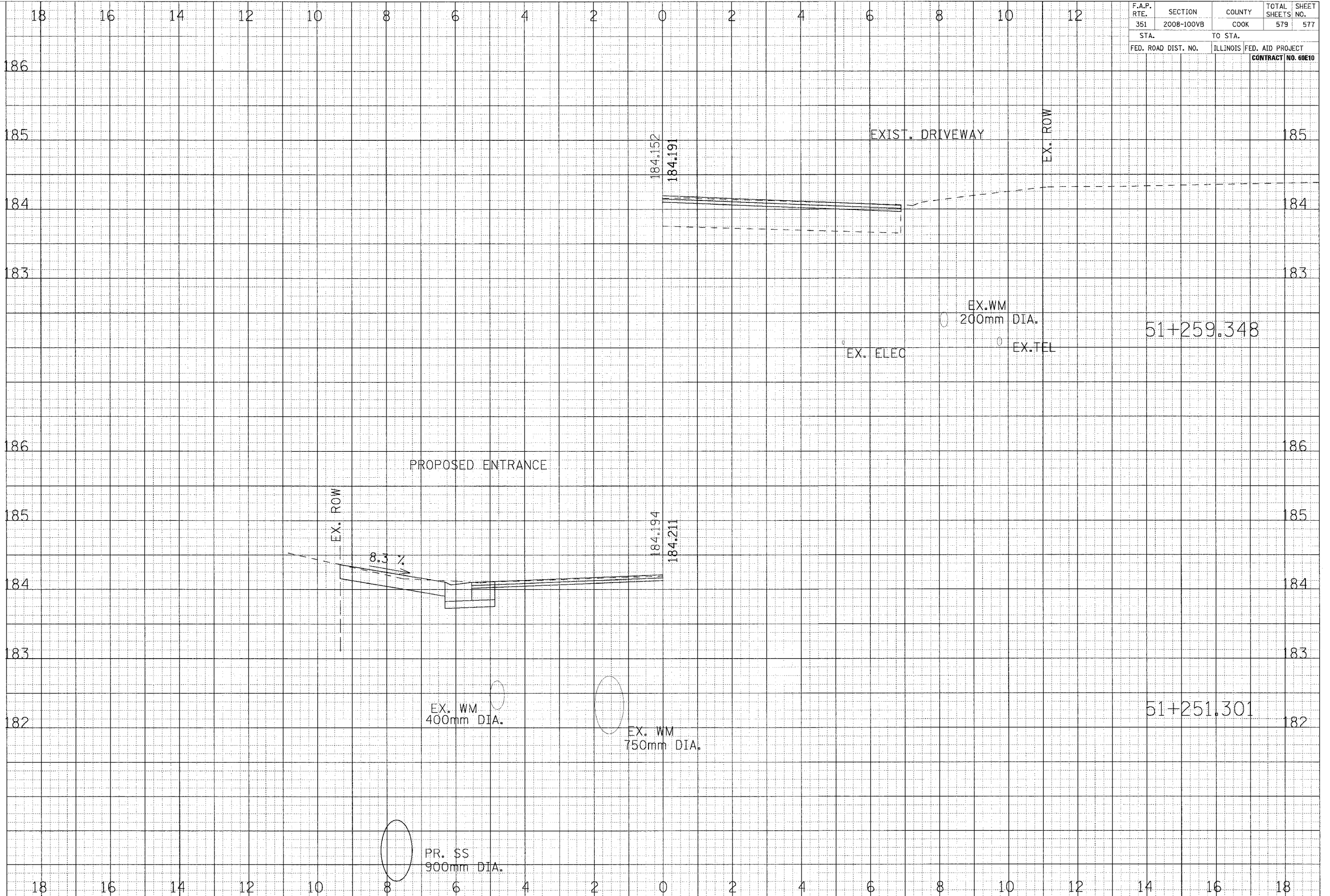
	CUT AREA (SUITABLE)	CUT AREA (UNSUITABLE)	FILL AREA	NON-SPECIAL
	SQ-M	SQ-M	SQ-M	SQ-M
STAGE 1	0.00	0.55	0.00	0.00
STAGE 2	0.23	0.42	0.00	0.00

CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	577
STA.	TO STA.		FED. AID PROJECT	
			CONTRACT NO. 60E10	

DATE	BY
FINISHED SURVEY	SURVEYED
NOTE BOOK	FLIGHTED
	TEMPLATE
	AREAS CHECKED

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	FLIGHTED
	TEMPLATE
	AREAS CHECKED

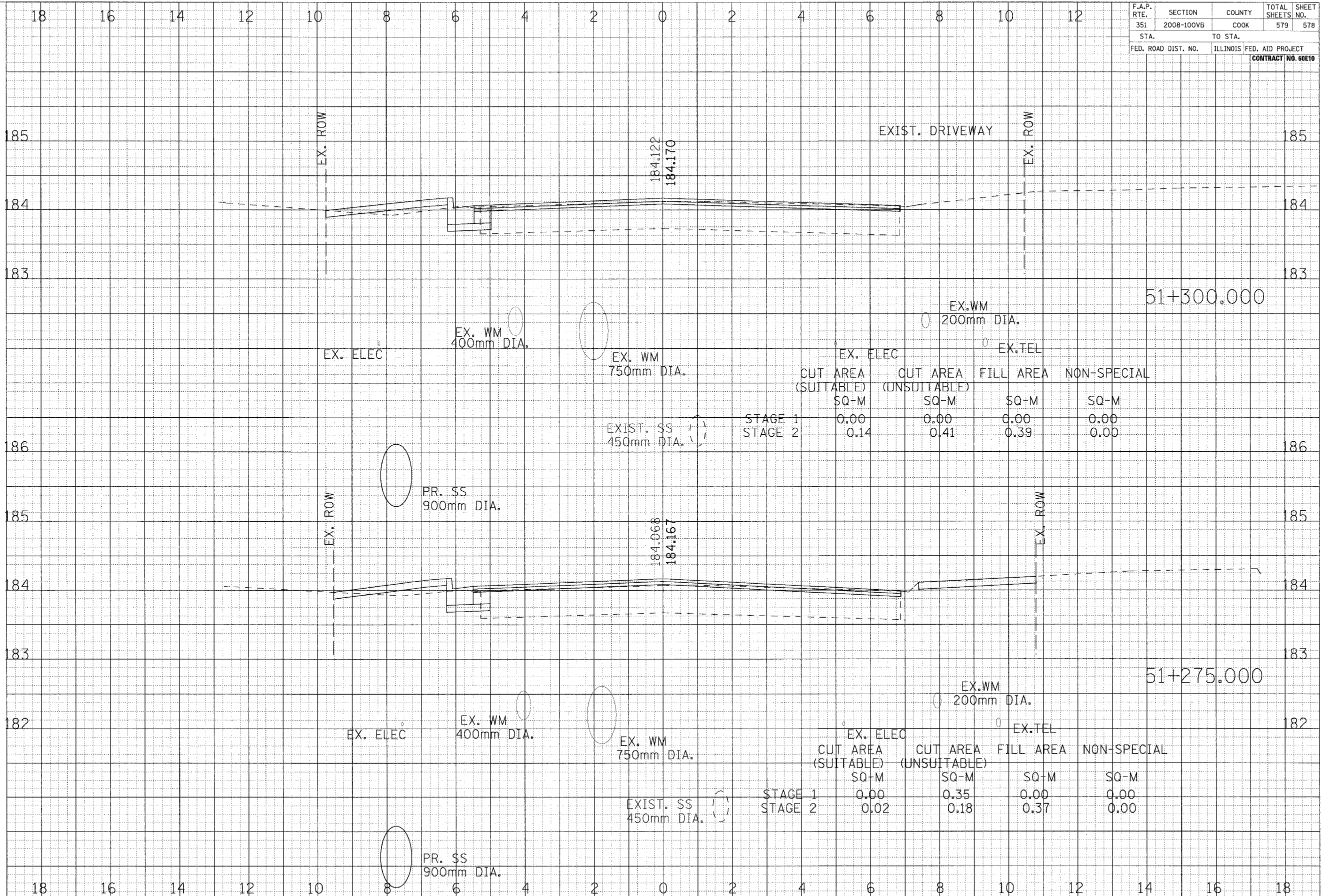


CROSS SECTIONS - WEST AVENUE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2008-100VB	COOK	579	578
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	CONTRACT NO. 60E10			

FINAL SURVEY	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

ORIGINAL SURVEY	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	



CROSS SECTIONS - WEST AVENUE

