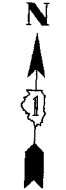
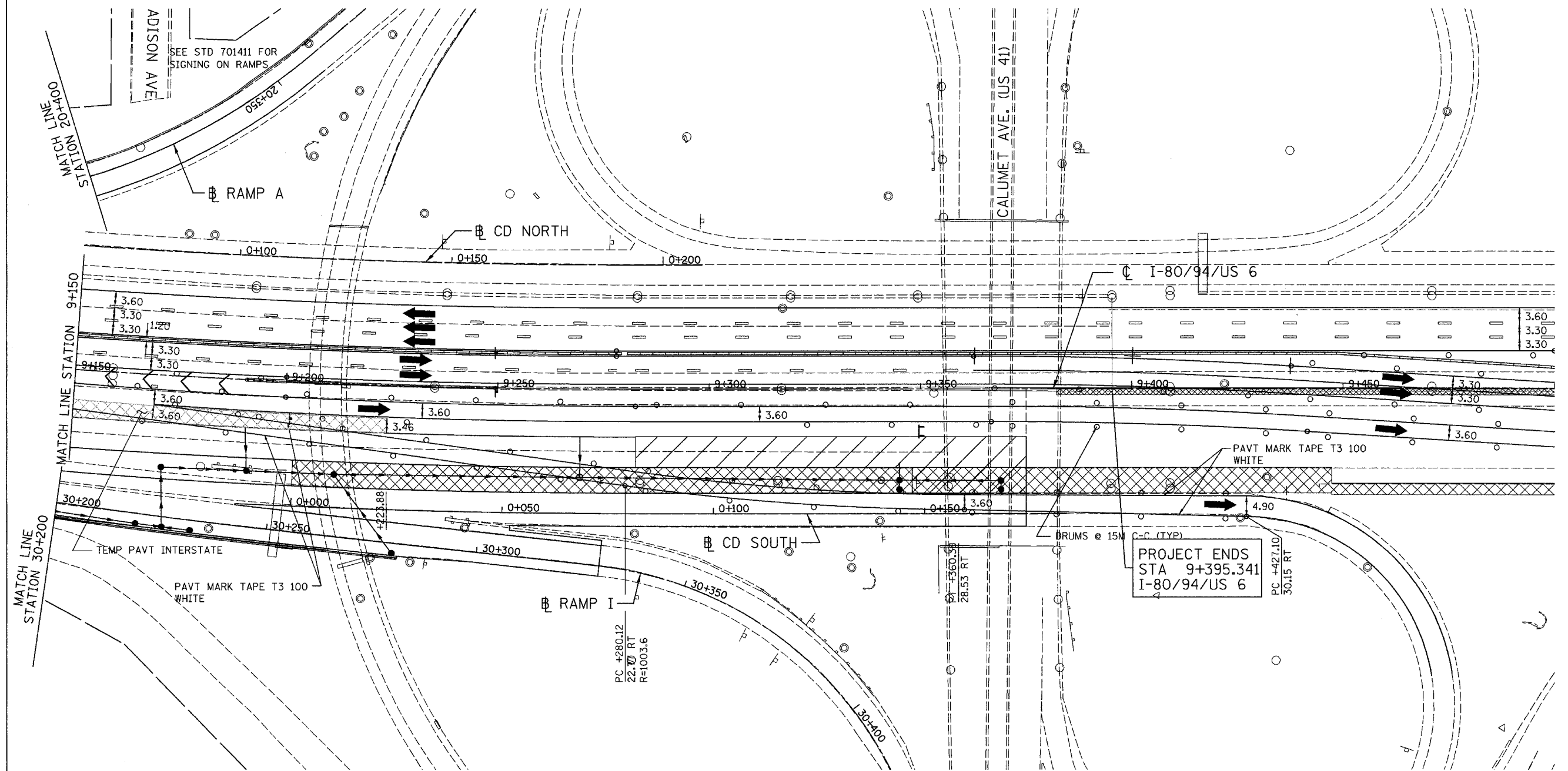


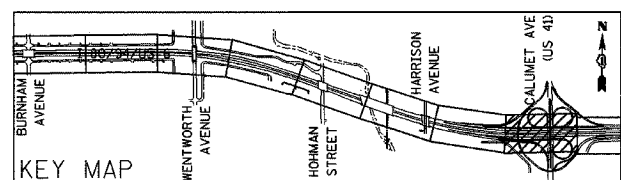
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	201
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
STAGE 1A  
STA. 9+150 TO STA. 9+500  
SCALE 1:500  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

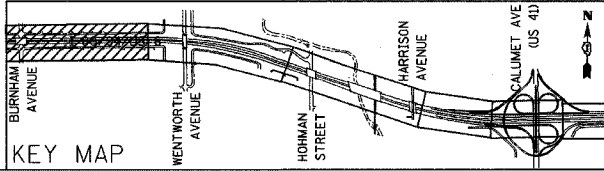
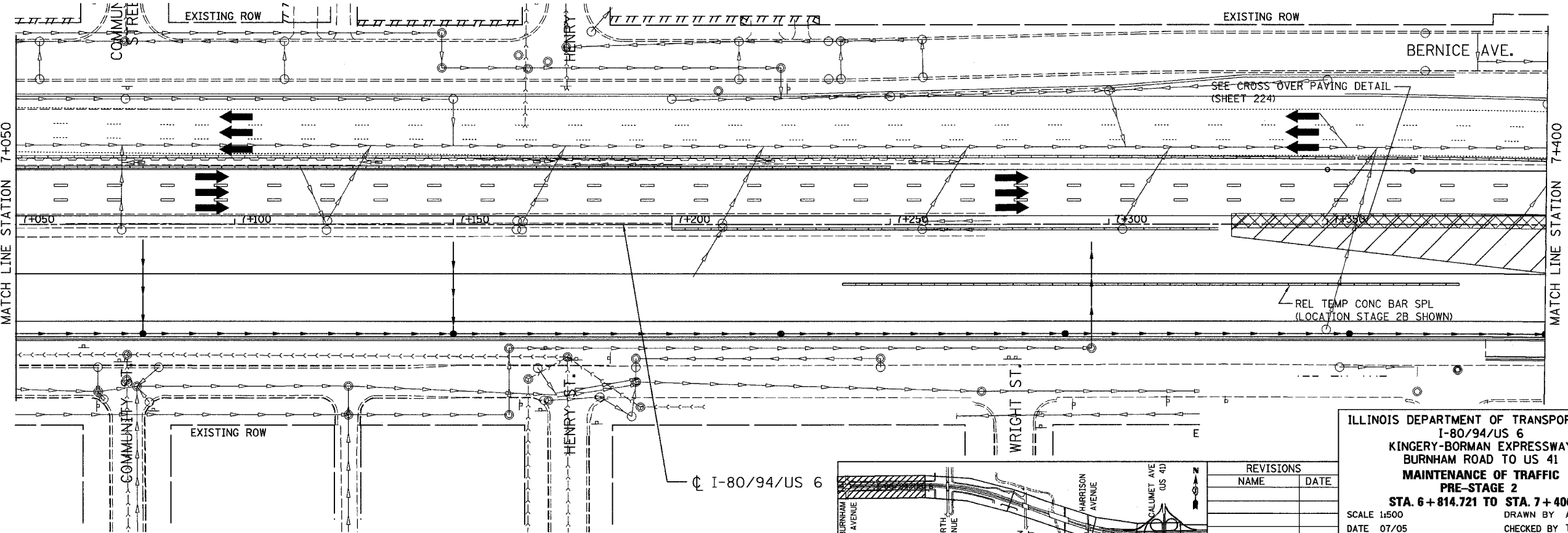
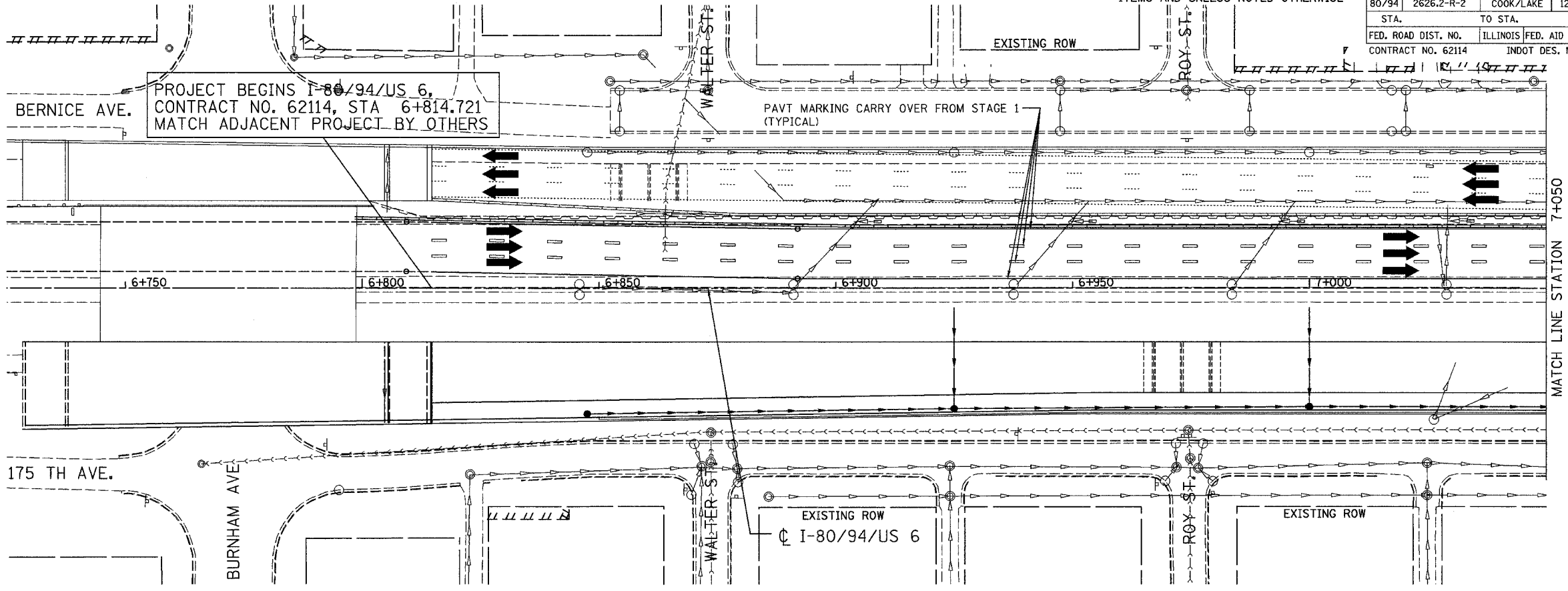


REVISIONS	
NAME	DATE



ALL DIMENSIONS IN METERS EXCEPT PAVT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	202
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		INDOT DES. NO. 0100987		
CONTRACT NO. 62114				



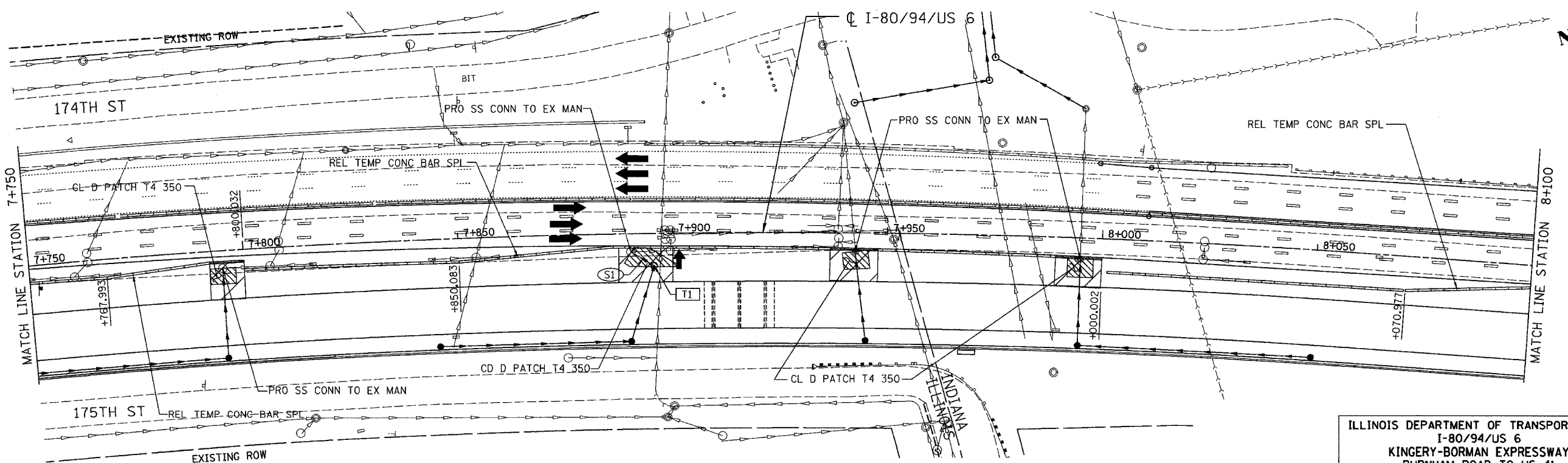
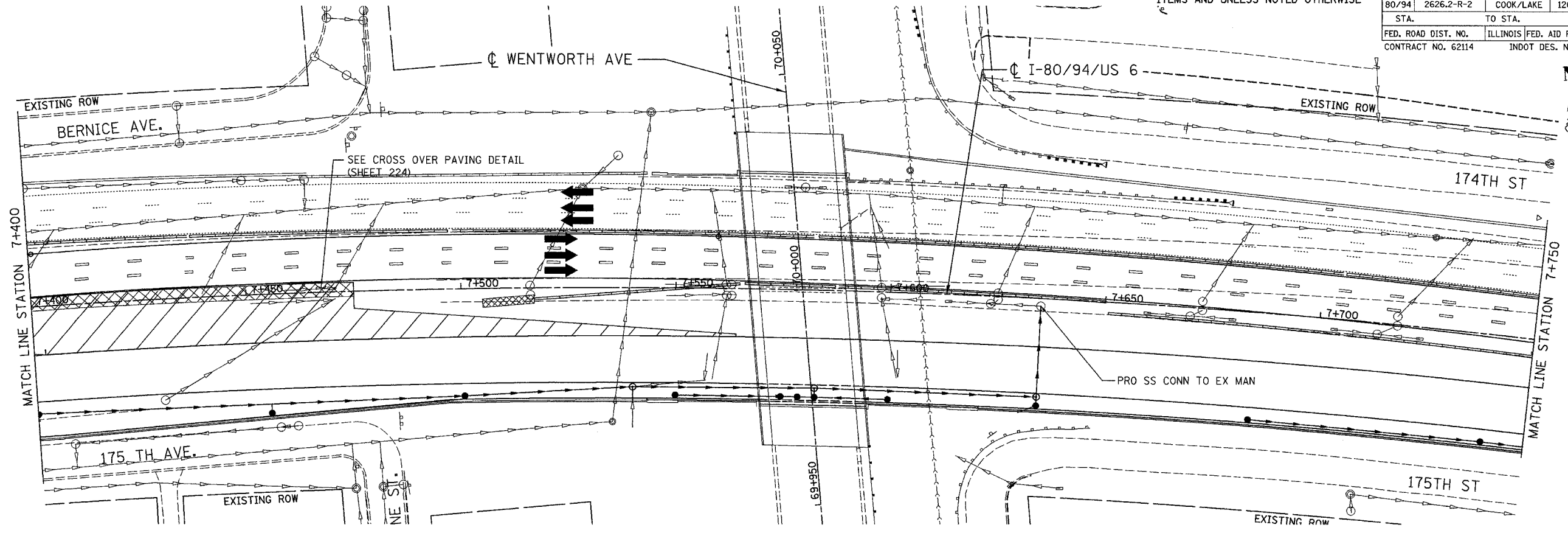
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 MAINTENANCE OF TRAFFIC  
 PRE-STAGE 2  
 STA. 6 + 814.721 TO STA. 7 + 400  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

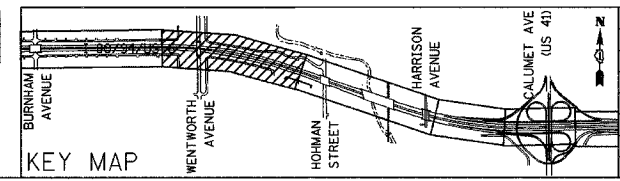
**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	203
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ID	PAY ITEM	STA	OFF	ELEV	N INV	S INV	E INV	W INV
T1	MAN A 1.2D T1F CL	7+895.60	7.53	182.724		181.000		181.000
ID	PAY ITEM	L	SLOPE	TBF				
S1	SS 2 RCP CL 3 300	6.25	0.00	6.5				

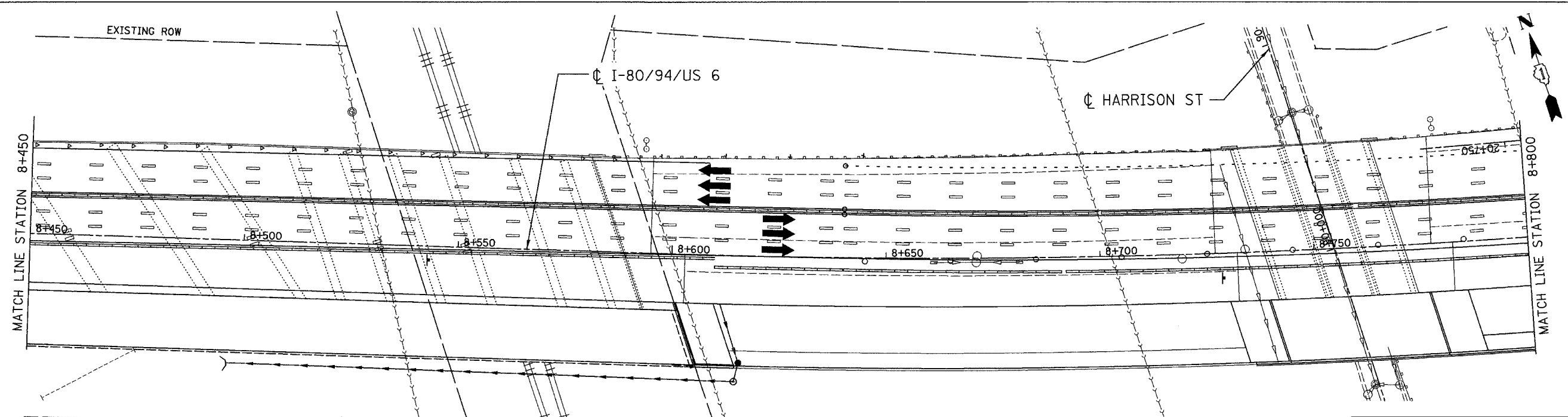
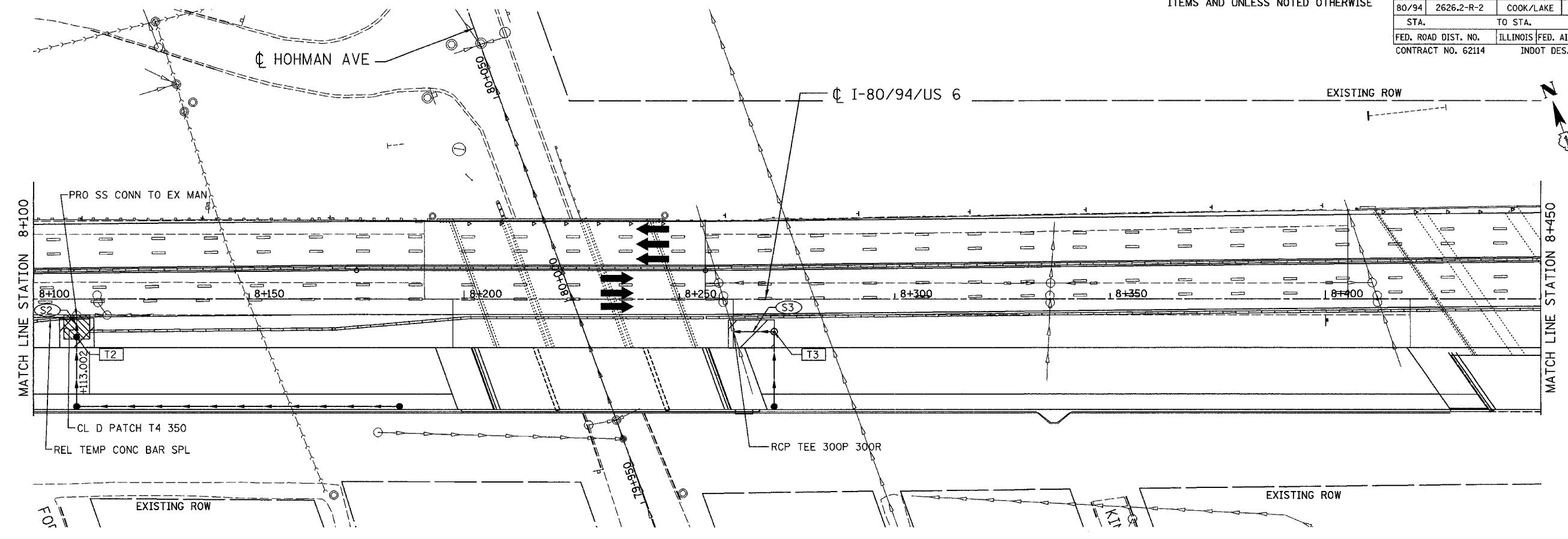


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC**  
**PRE-STAGE 2**  
**STA. 7+400 TO STA. 8+100**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

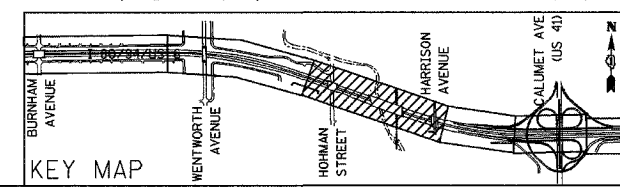
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	204
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ID	PAY ITEM	STA	OFF	ELEV	N INV	S INV	E INV	W INV
T2	MAN A 1.2D T1F CL	8+110.00	8.78	184.464	183.050	183.900		
T3	MAN A 1.2D T1F CL	8+272.00	7.54	188.483		187.638		187.450

ID	PAY ITEM	L	SLOPE	TBF
S2	SS 1 RCP CL 4 300	5.00	1.00	3.1
S3	SS 1 RCP CL 4 300	9.00	0.56	3.7

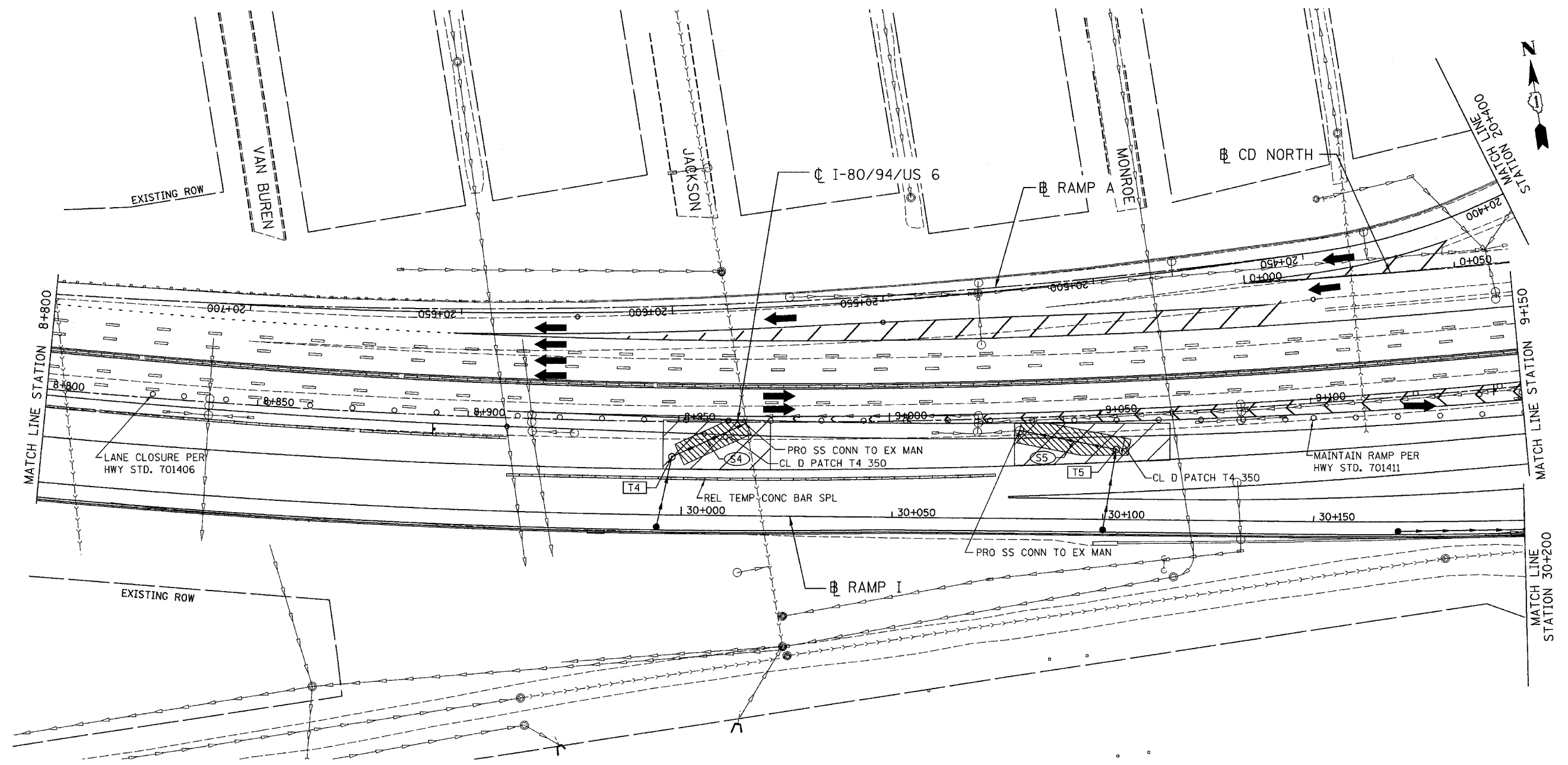


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
 PRE-STAGE 2**  
**STA. 8+100 TO STA. 8+800**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

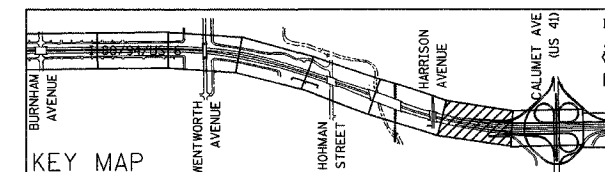
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	205
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ID	PAY ITEM	STA	OFF	ELEV	N INV	S INV	E INV	W INV
T4	MAN A 1.2D TIF CL	8+948.47	8.33	182.908		182.510	182.000	
T5	MAN A 1.2D TIF CL	9+053.43	8.33	182.398		181.111		181.100

ID	PAY ITEM	L	SLOPE	TBF
S4	SS 1 RCP CL 4 300	19.00	0.53	7.6
S5	SS 1 RCP CL 4 300	22.10	0.45	14.1

NOTE:  
STORM SEWER CONNECTION ON THIS SHEET WILL BE MADE UNDER RESTRICTED NIGHT TIME LANE CLOSURES.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
PRE-STAGE 2  
STA. 8+800 TO STA. 9+150

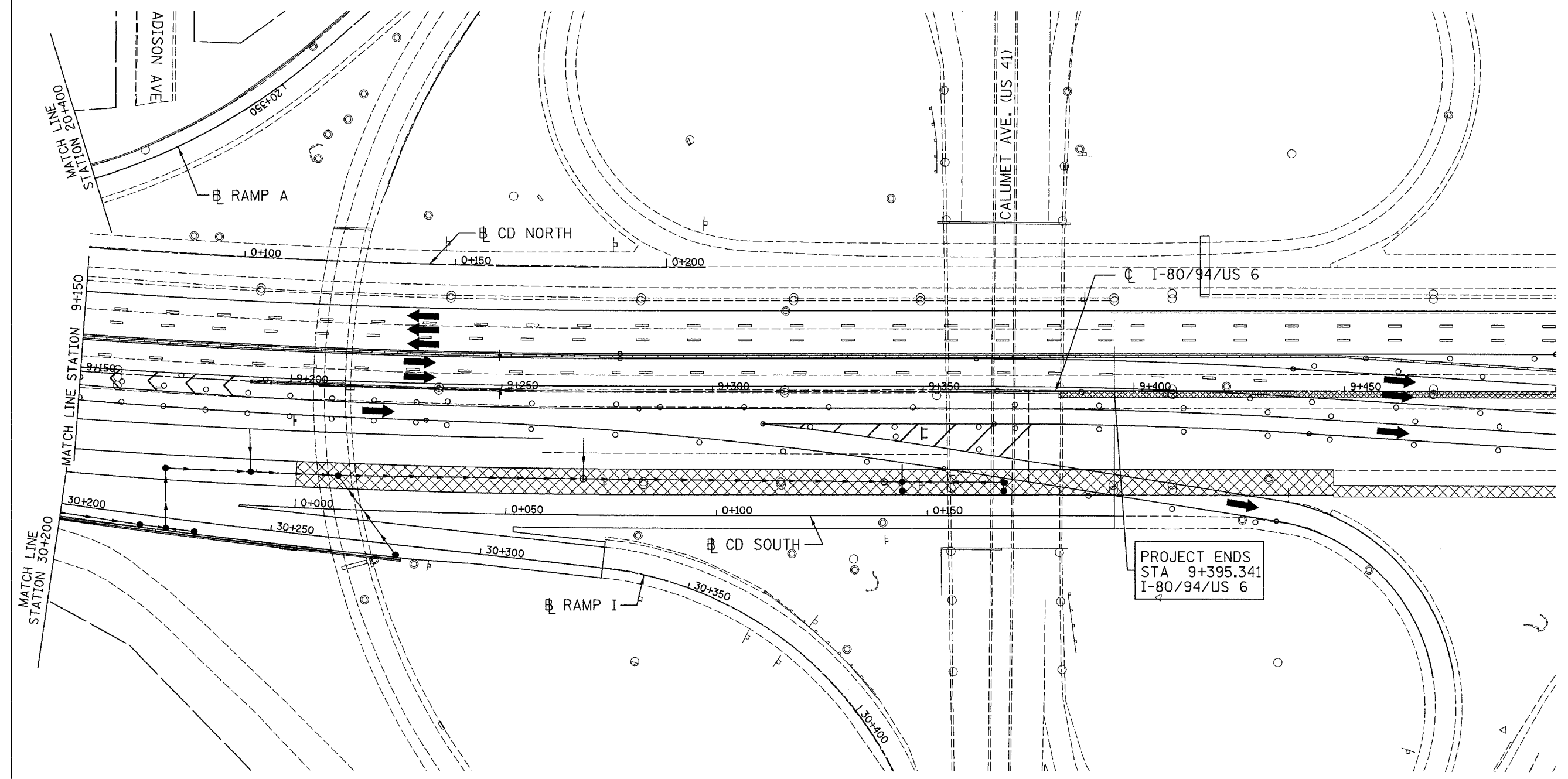
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DATE 07/05

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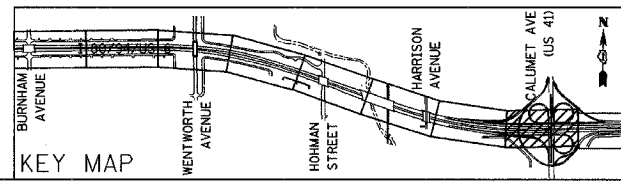
**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	206
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6



REVISIONS	
NAME	DATE

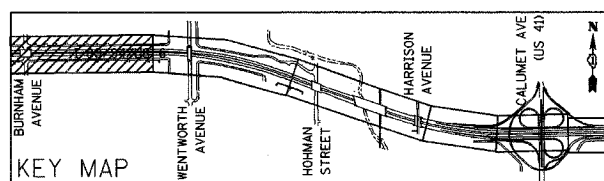
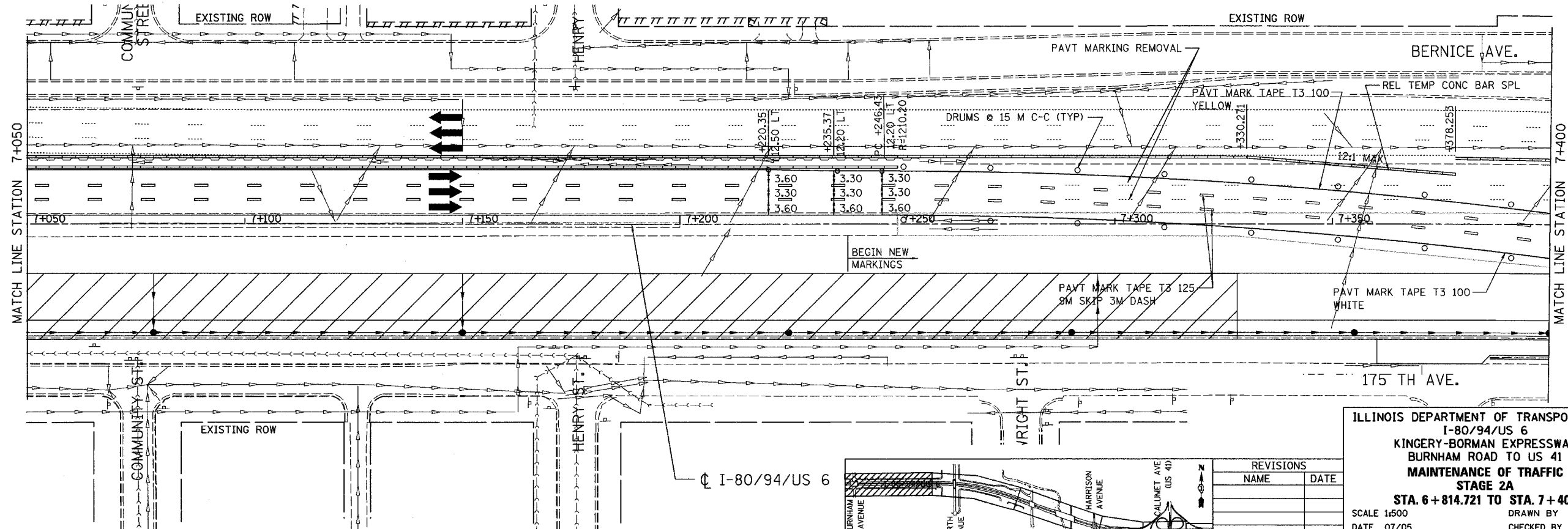
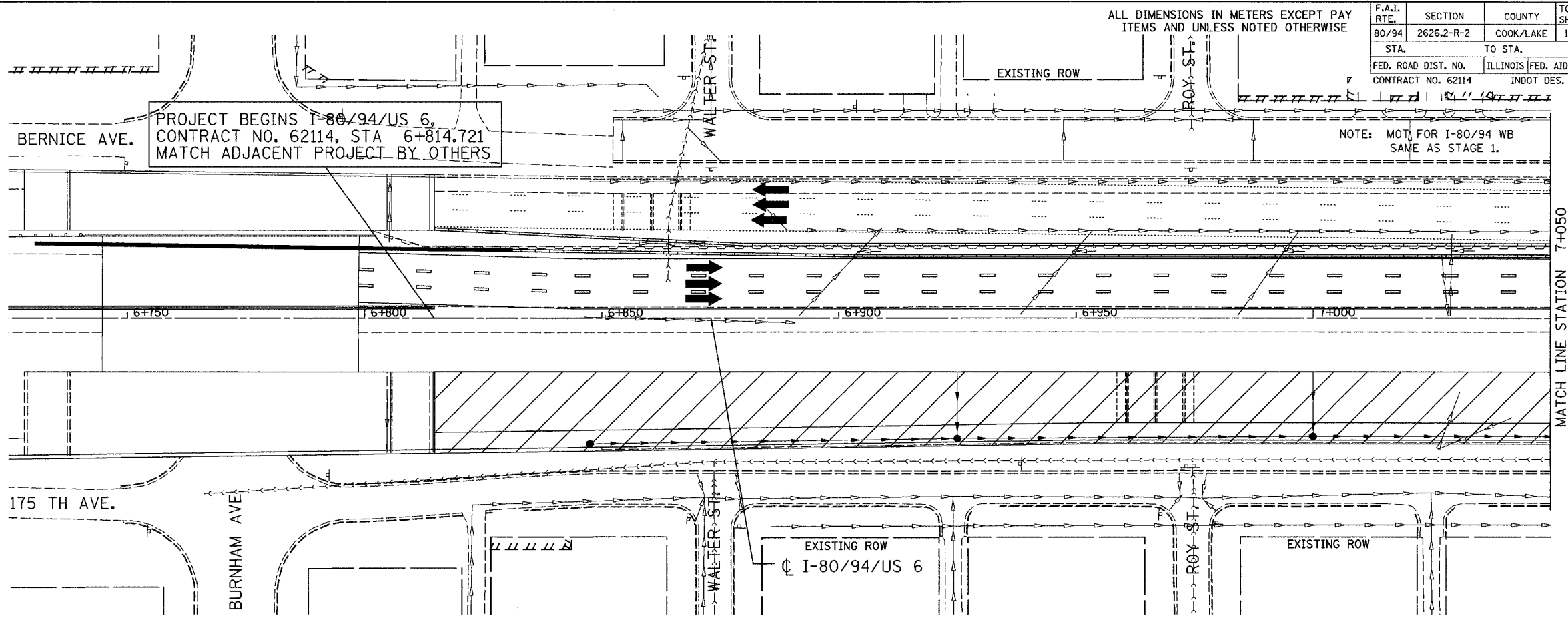
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
PRE-STAGE 2  
STA. 9+150 TO STA. 9+500

SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	207
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

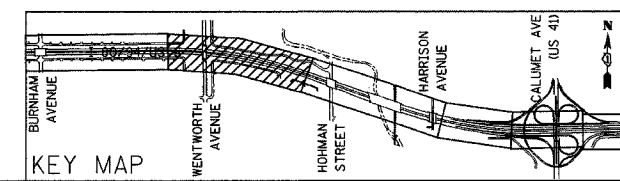
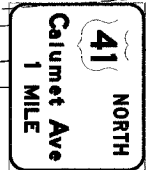
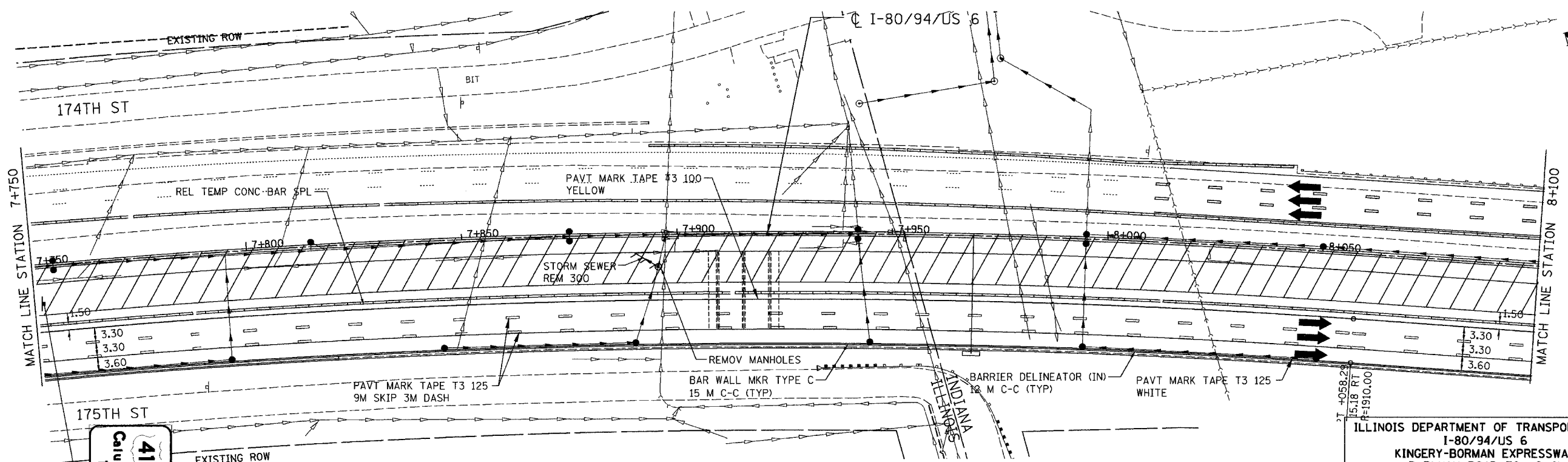
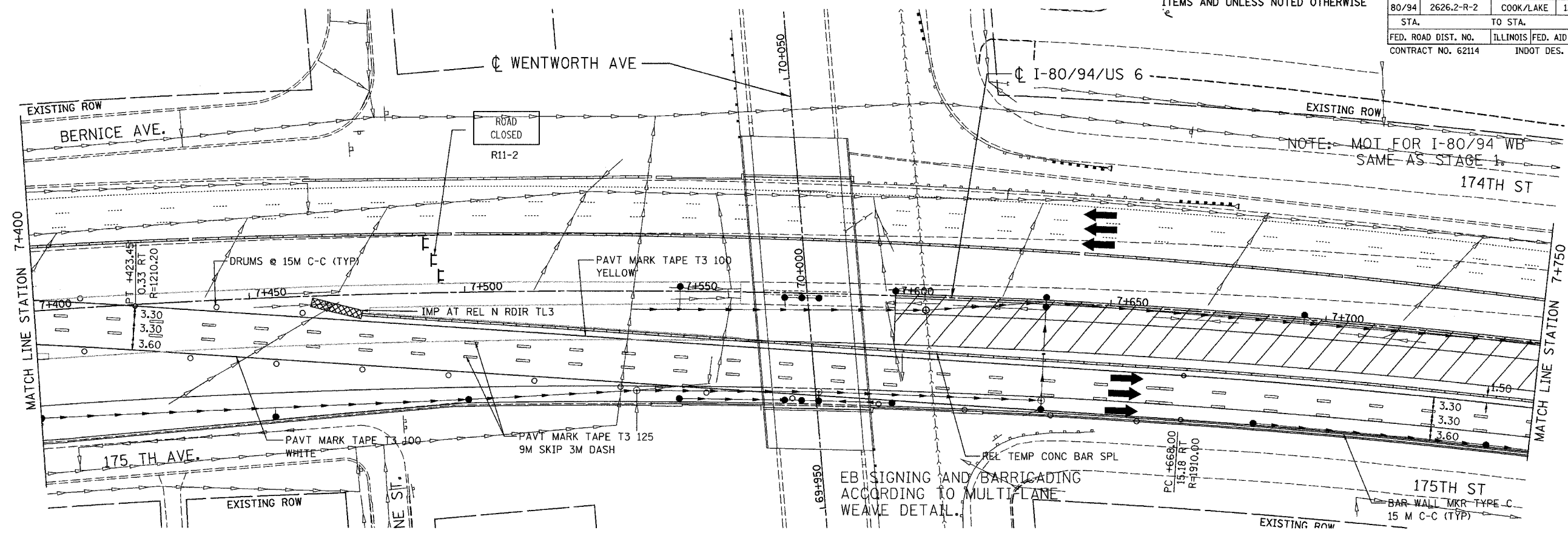
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 MAINTENANCE OF TRAFFIC  
 STAGE 2A  
 STA. 6 + 814.721 TO STA. 7 + 400  
 SCALE 1:500 DRAWN BY ACE/GAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	208
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

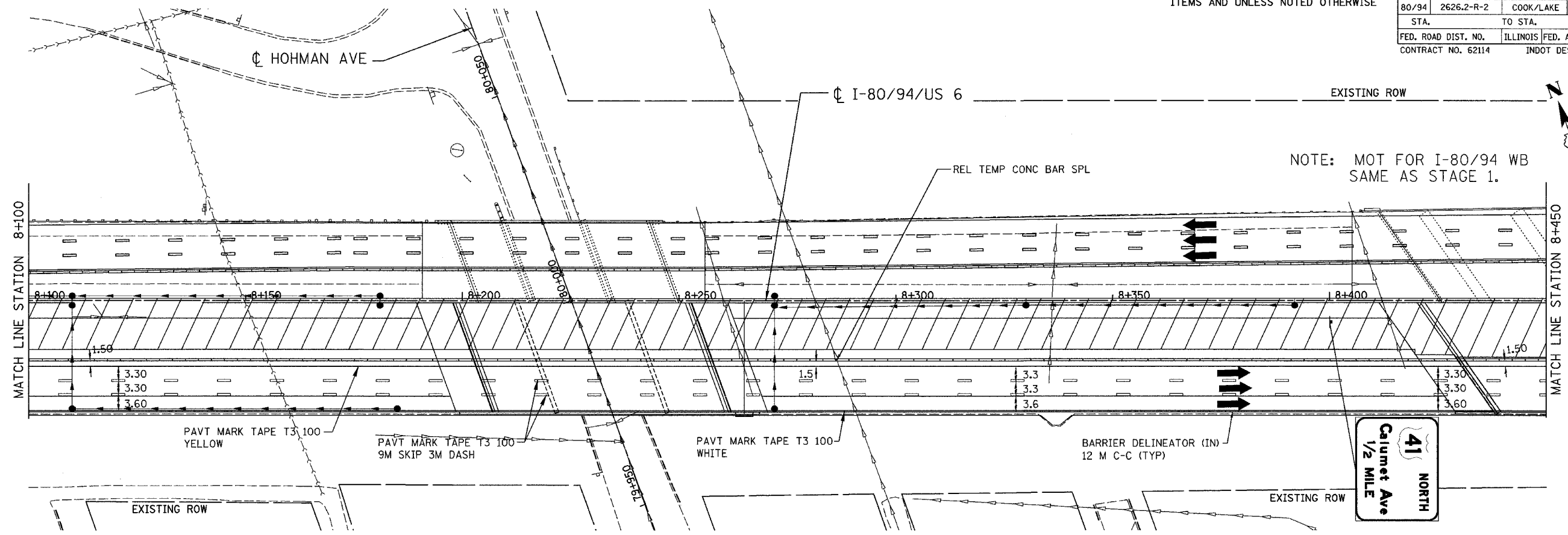
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
STAGE 2A  
STA. 7+400 TO STA. 8+100  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

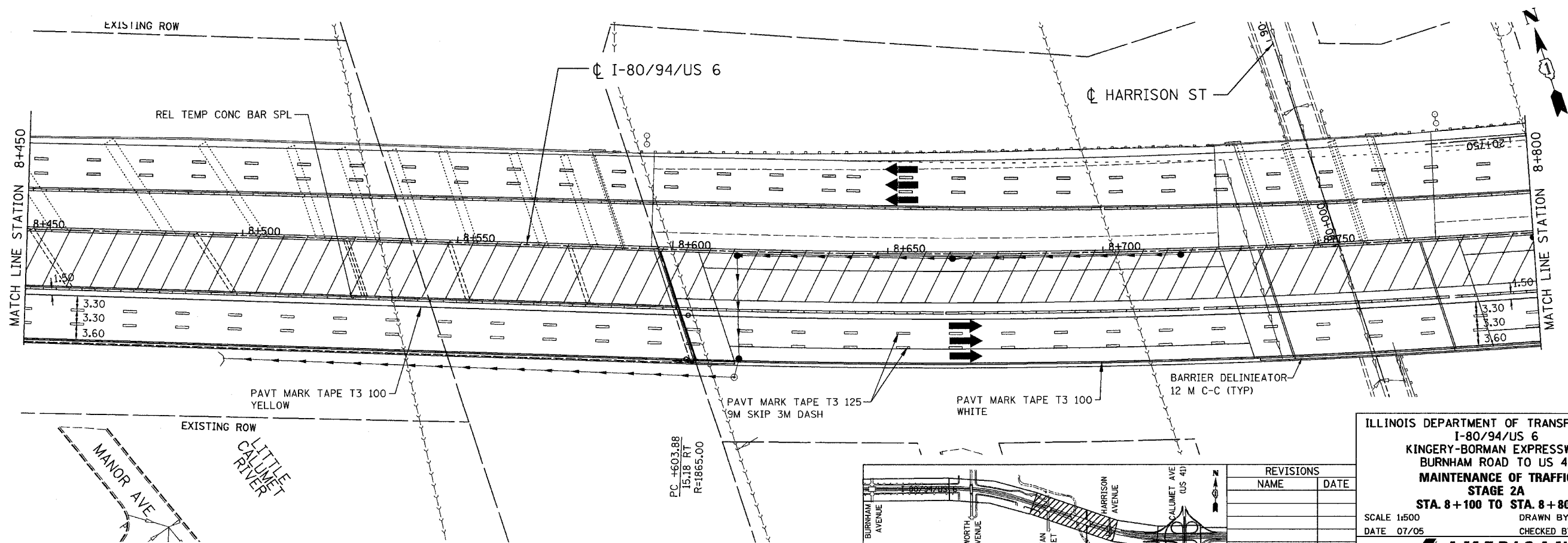


ALL DIMENSIONS IN METERS EXCEPT PAVT MARK TAPE T3 100 YELLOW AND UNLESS NOTED OTHERWISE

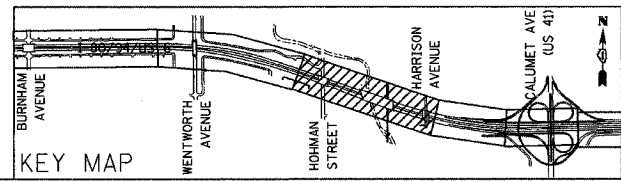
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80/94	2626.2-R-2	COOK/LAKE	1207	209
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTE: MOT FOR I-80/94 WB SAME AS STAGE 1.



PC +603.88  
LS 18 FT  
R=1865.00



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
STAGE 2A  
STA. 8+100 TO STA. 8+800

SCALE 1:500  
DATE 07/05

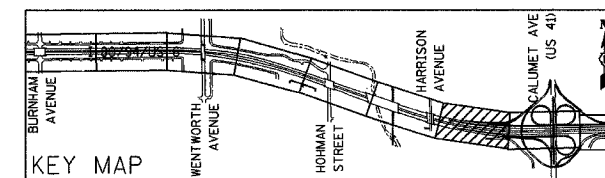
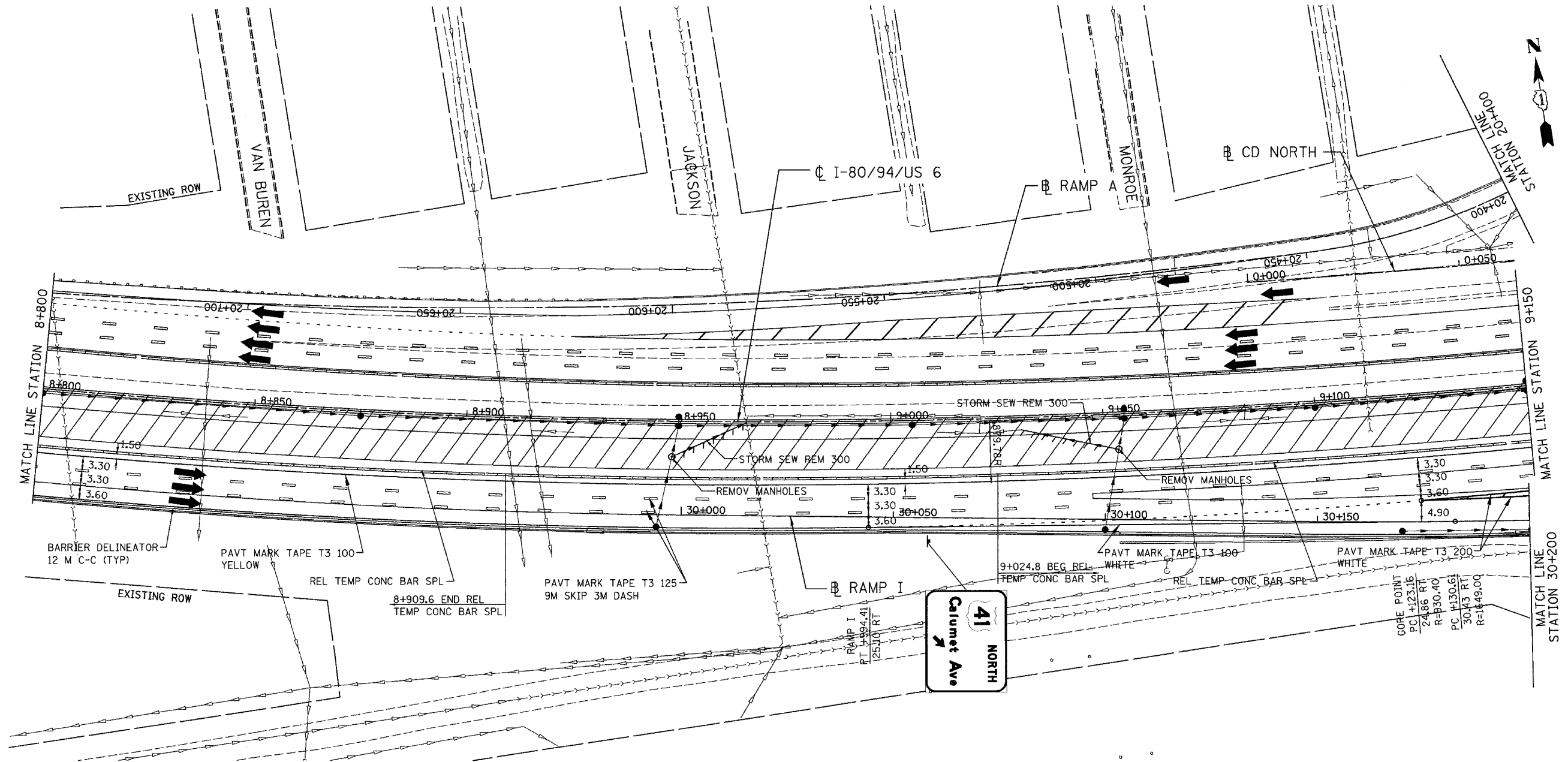
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**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	210
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

NOTE: MOT FOR I-80/94 WB SAME AS STAGE 1.



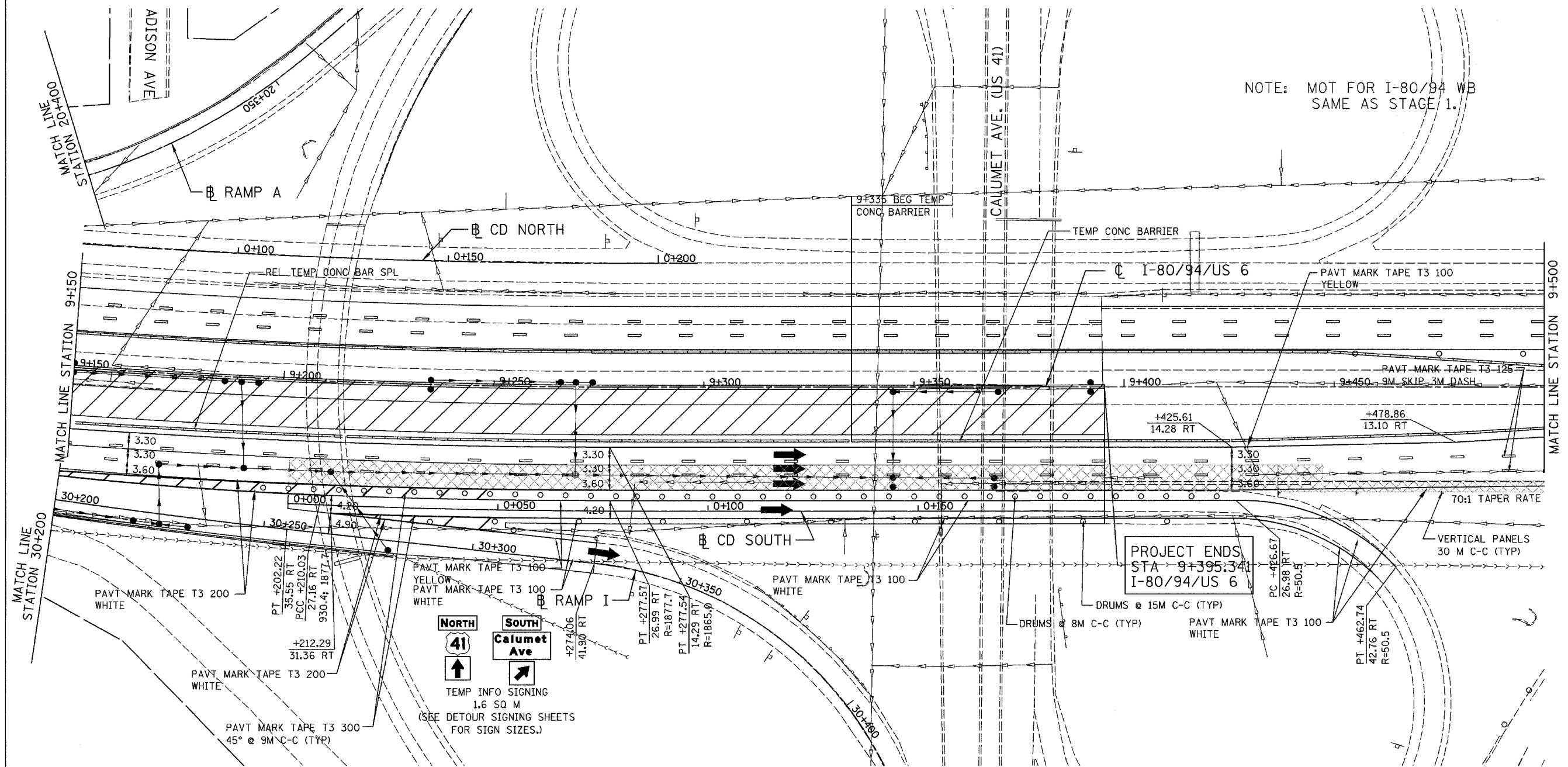
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC**  
**STAGE 2A**  
**STA. 8+800 TO STA. 9+150**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

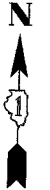
**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVT  
ITEMS AND UNLESS NOTED OTHERWISE

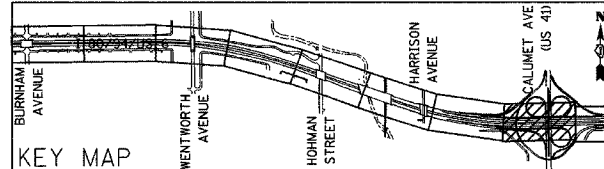
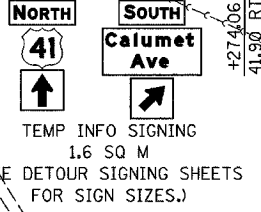
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80/94	2626.2-R-2	COOK/LAKE	1207	211
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: MOT FOR I-80/94 WB  
SAME AS STAGE 1.



PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
STAGE 2A**  
STA. 9+150 TO STA. 9+500  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

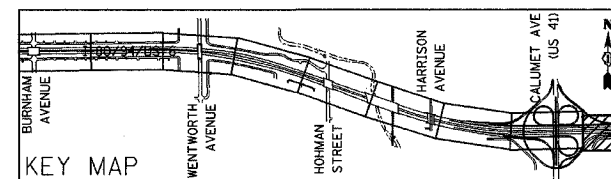
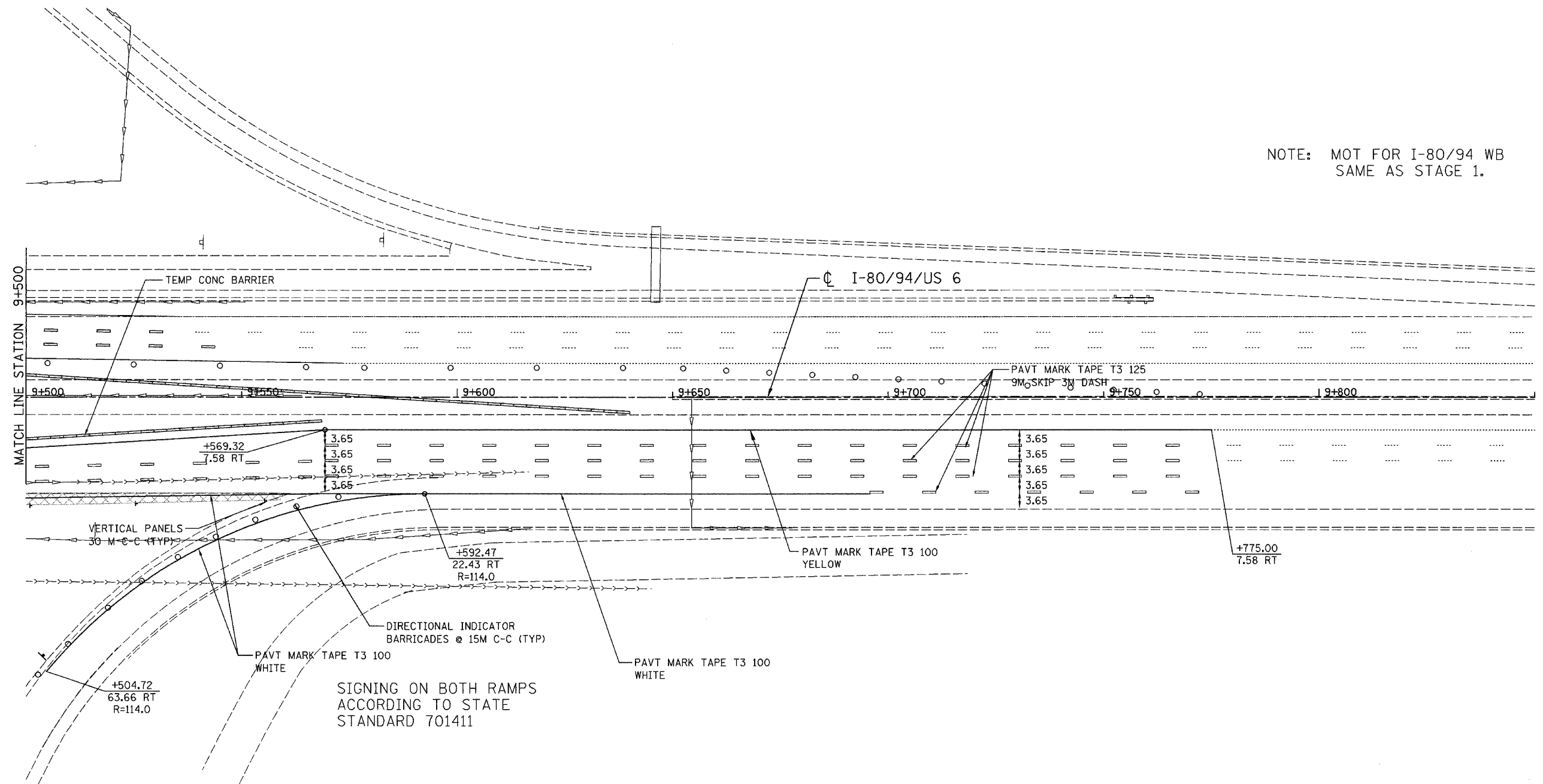
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ALL DIMENSIONS IN METERS EXCEPT PAVT  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	212
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: MOT FOR I-80/94 WB  
SAME AS STAGE 1.



REVISIONS	
NAME	DATE

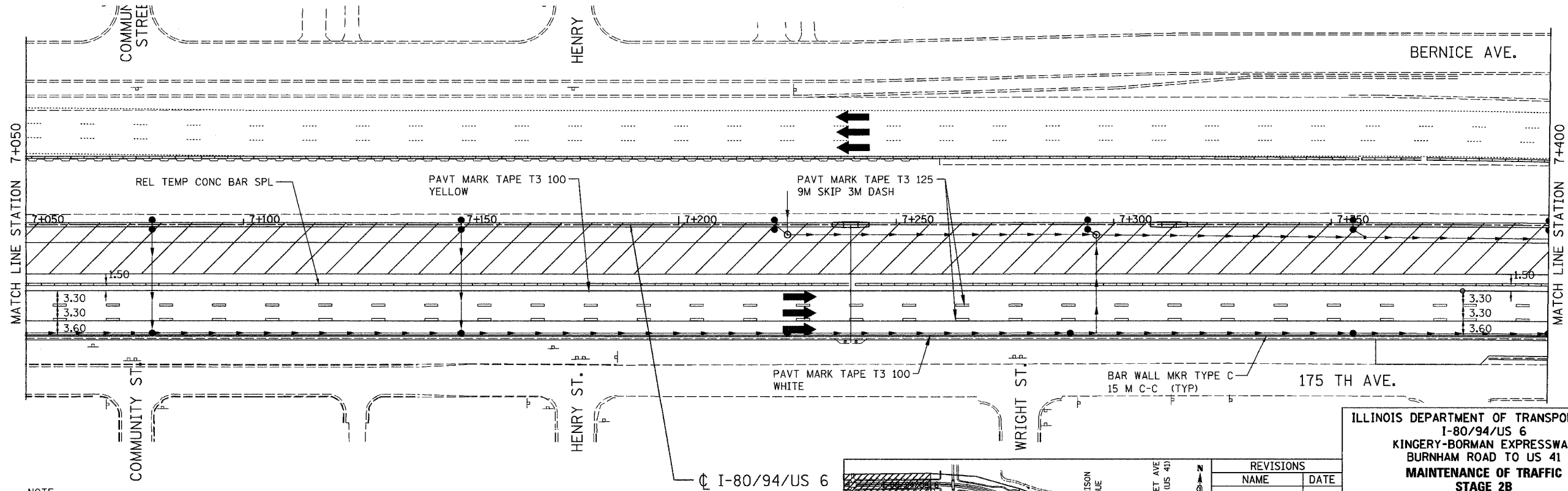
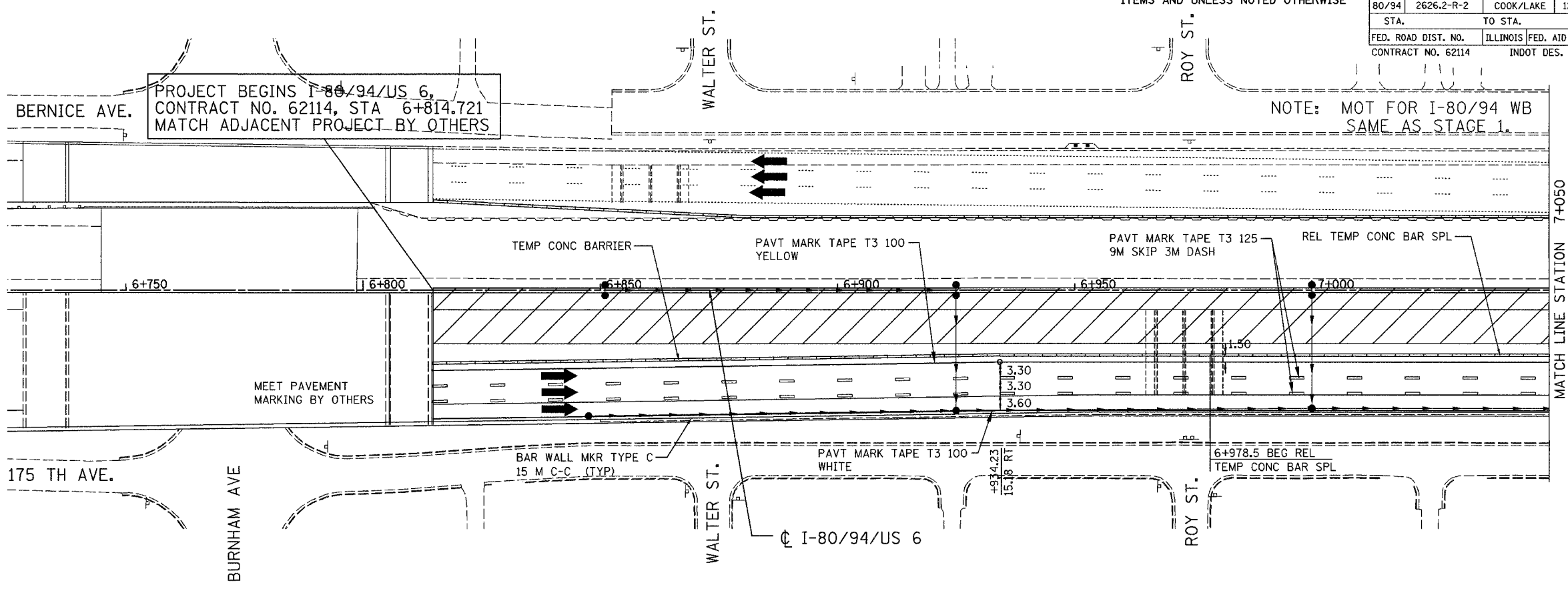
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
STAGE 2A**  
STA. 9+500 TO STA. 9+850

SCALE 1:500  
DATE 07/05

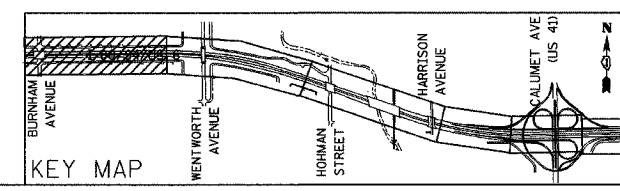
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CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	213
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE:  
TRAFFIC IN THIS STAGE IS ALIGNED TO MATCH THE STAGE 2 TRAFFIC IN CONTRACT 62111. COORDINATION OF STAGE CHANGE IS REQUIRED.



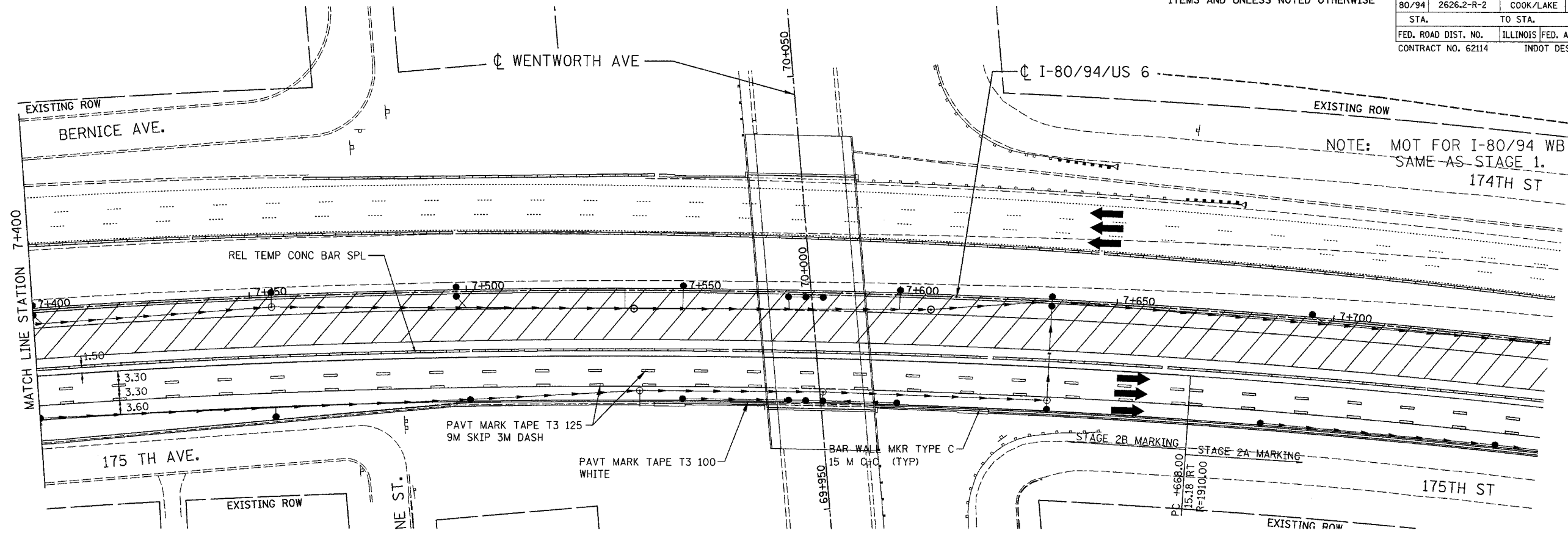
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MAINTENANCE OF TRAFFIC  
STAGE 2B  
STA. 6 + 814.721 TO STA. 7 + 400  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 214
STA. 7+400		TO STA. 7+100		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



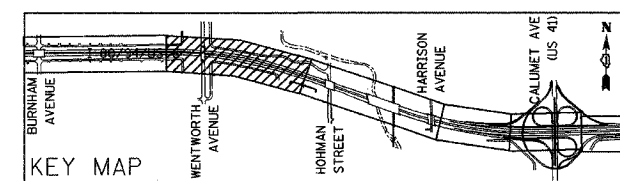
NOTE: MOT FOR I-80/94 WB SAME AS STAGE 1. 174TH ST

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
STAGE 2B**  
STA. 7+400 TO STA. 8+100

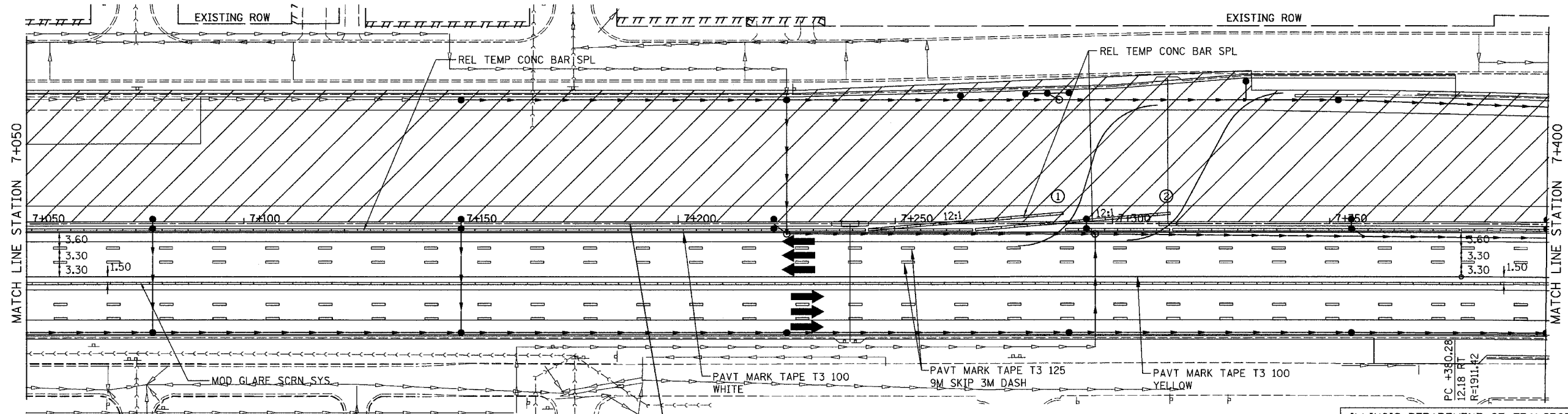
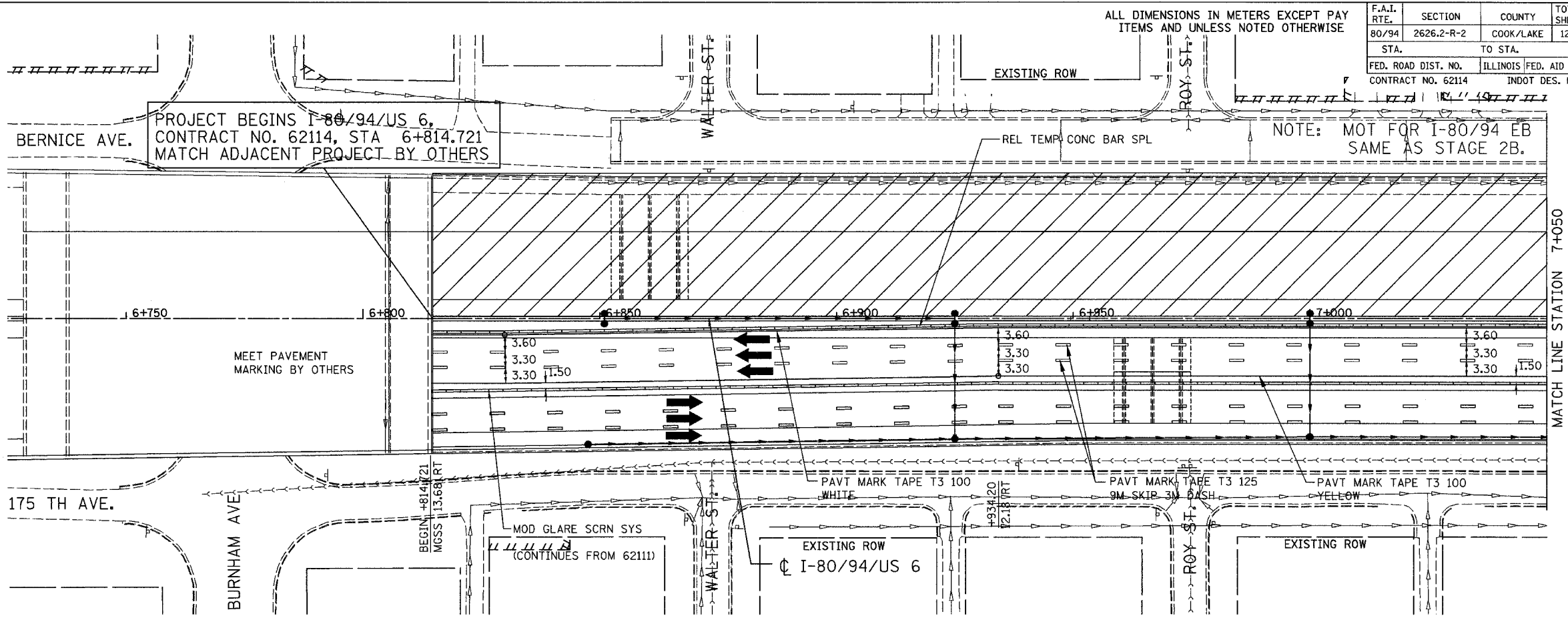
REVISIONS	
NAME	DATE

SCALE 1:500  
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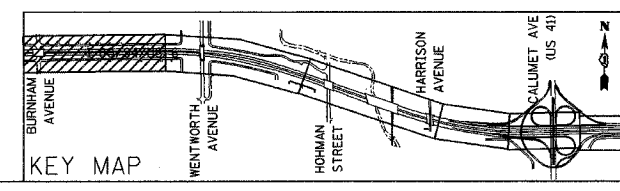
**AMERICAN**  
CONSULTING ENGINEERS



F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 215
STA. 80/94	TO STA. TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO. CONTRACT NO. 62114		INDOT DES. NO. 0100987		



- NOTES:
- ① & ② STAGE CONSTRUCTION TO PROVIDE EMERGENCY ACCESS AT ALL TIMES.
  - FINAL CONSTRUCTION OF CONCRETE MEDIAN BARRIER TO BE COMPLETED AFTER TRAFFIC IN FINAL CONFIGURATION UNDER DAILY LANE CLOSURE OF MEDIAN LANES.



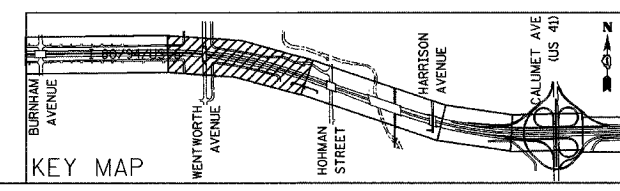
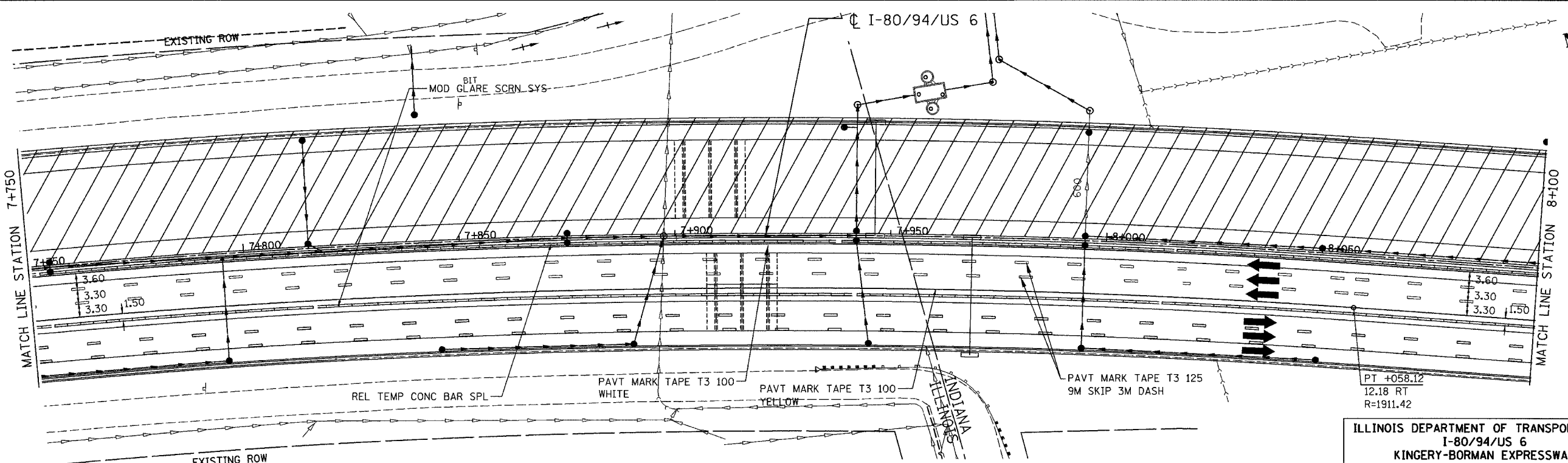
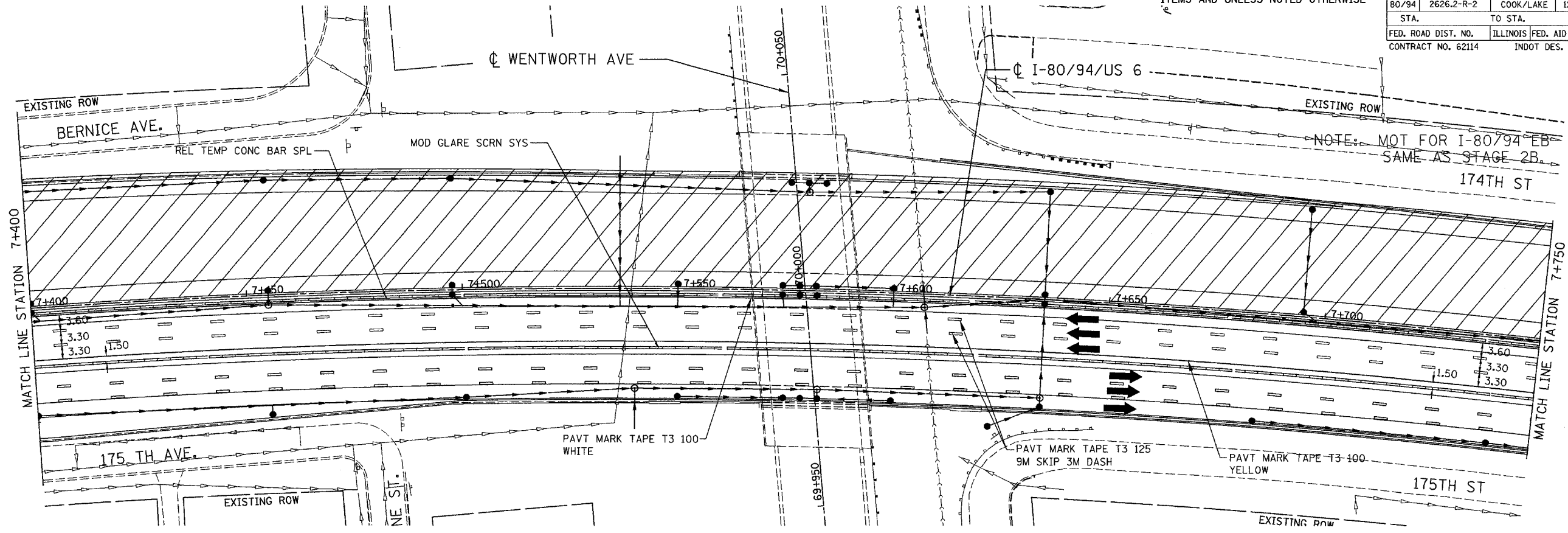
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 MAINTENANCE OF TRAFFIC  
 STAGE 3  
 STA. 6 + 814.721 TO STA. 7 + 400  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	216
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

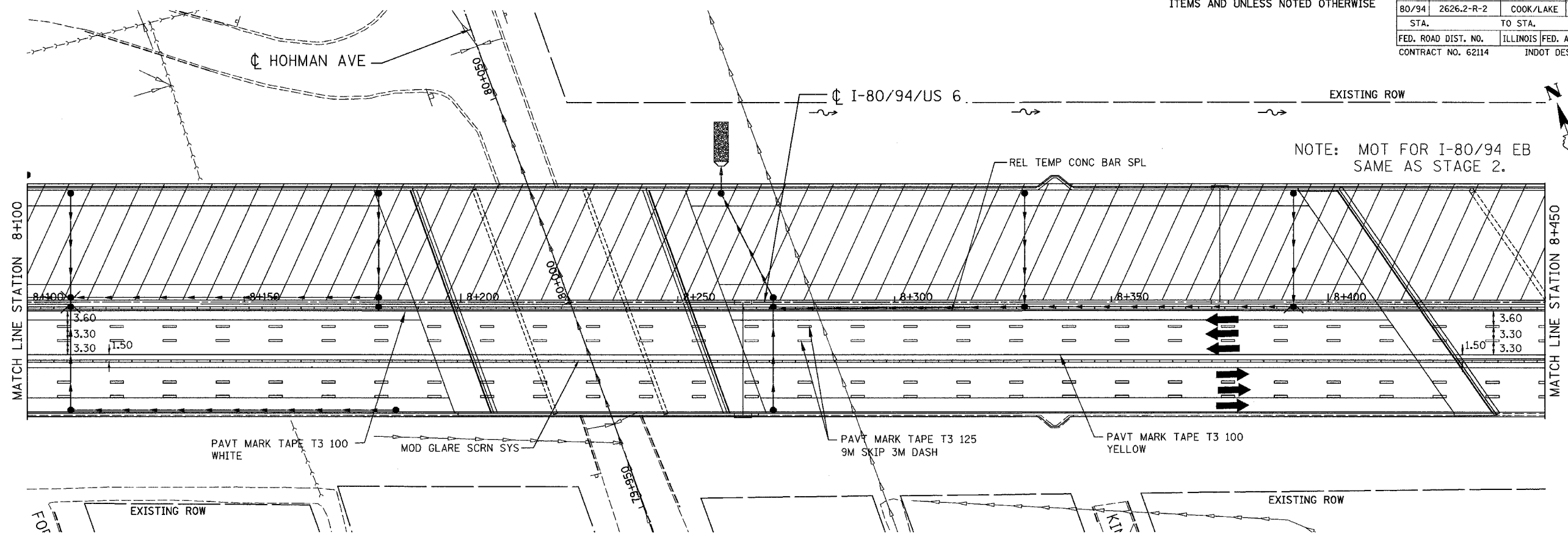
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 MAINTENANCE OF TRAFFIC  
 STAGE 3  
 STA. 7+400 TO STA. 8+100  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

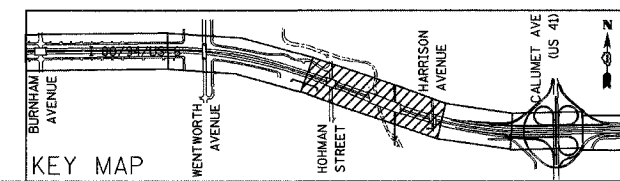
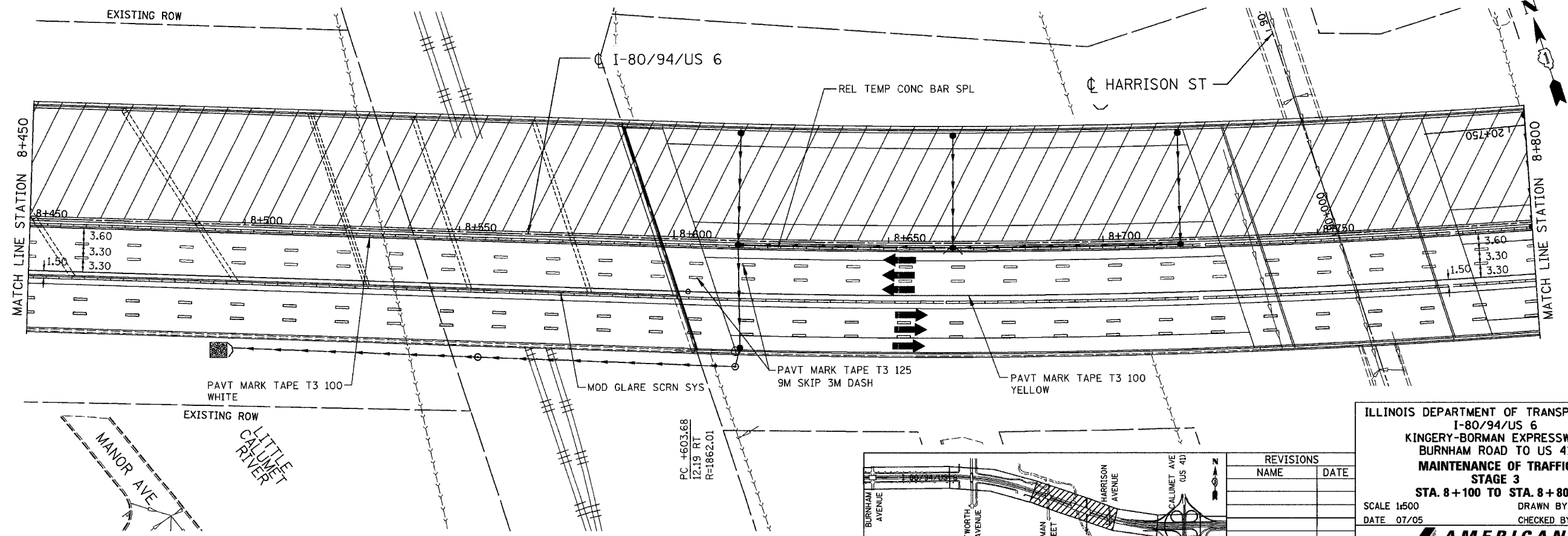


ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	217
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: MOT FOR I-80/94 EB SAME AS STAGE 2.



REVISIONS	
NAME	DATE

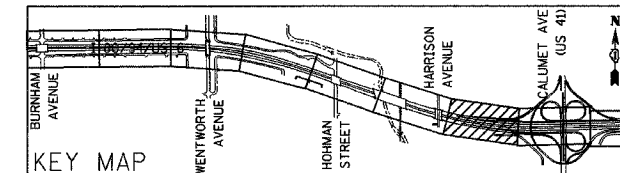
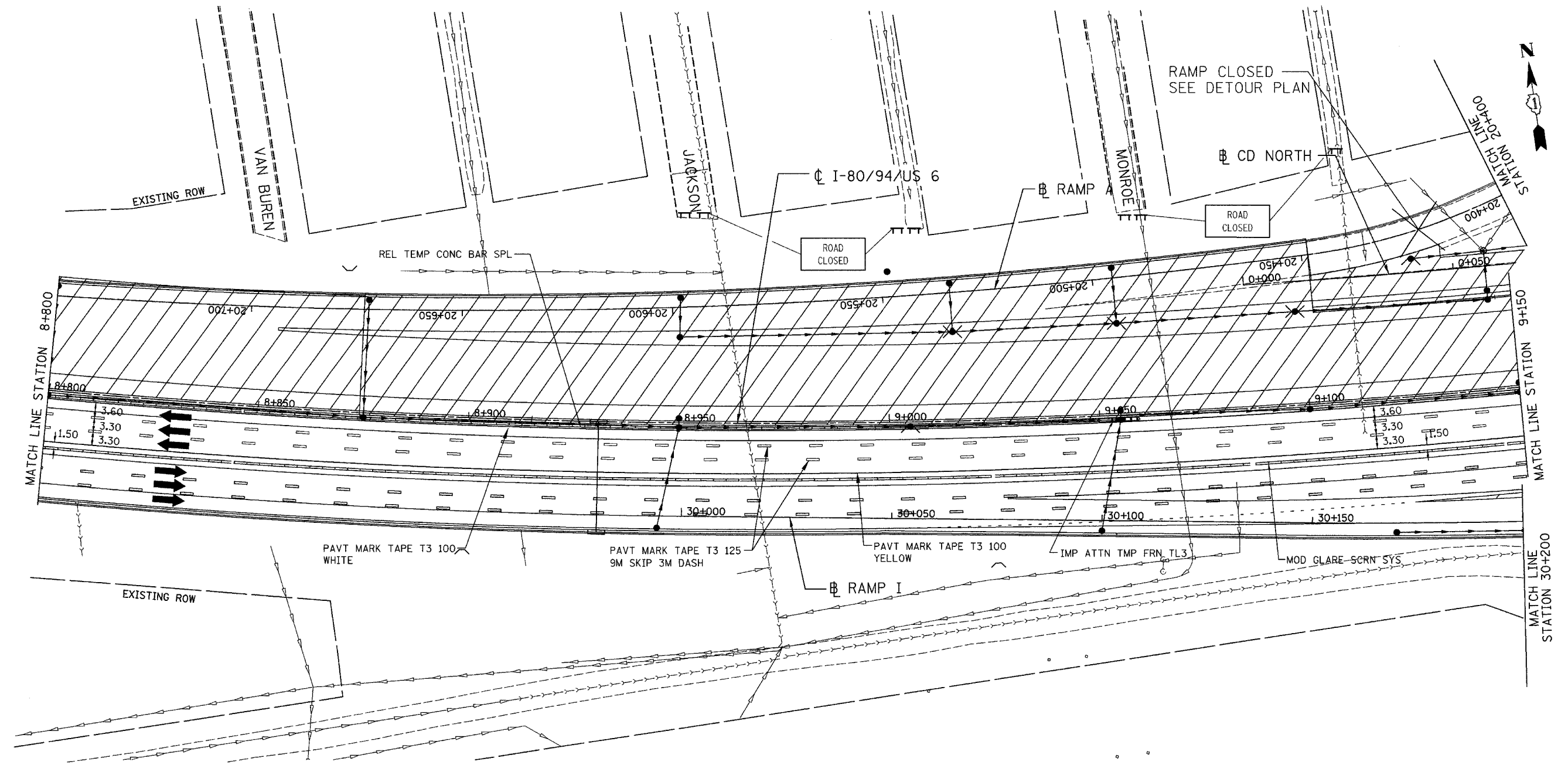
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
 STAGE 3**  
**STA. 8+100 TO STA. 8+800**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	218
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

NOTE: MOT FOR I-80/94 EB SAME AS STAGE 2.



REVISIONS	
NAME	DATE

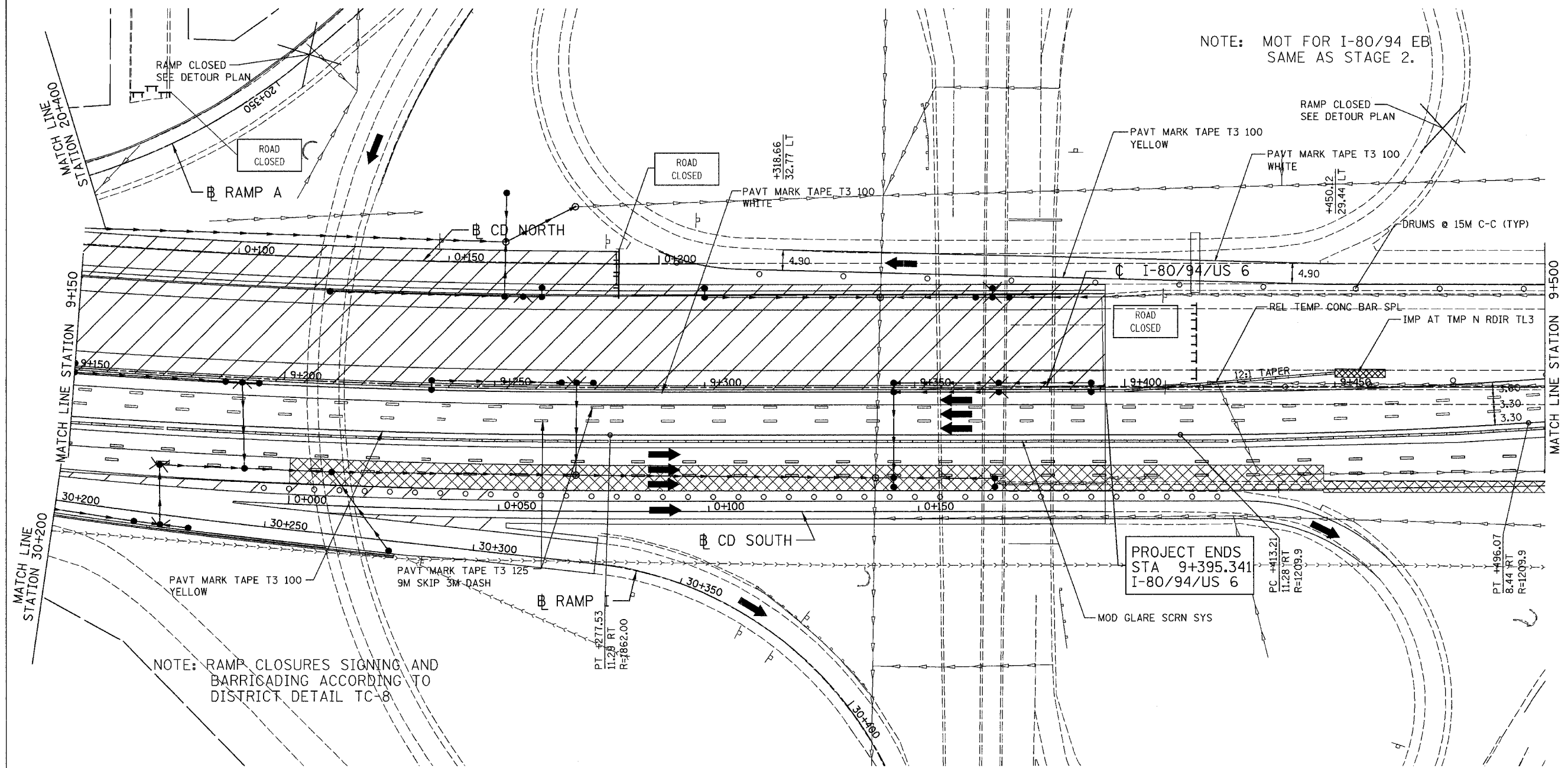
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC**  
**STAGE 3**  
**STA. 8+800 TO STA. 9+150**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

I:\Projects\180413.rps 08/15/2006 11:23:24 AM

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	219
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



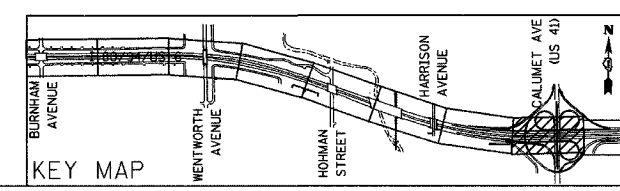
PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC  
STAGE 3**  
STA. 9+150 TO STA. 9+500

REVISIONS	
NAME	DATE

SCALE 1:500  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

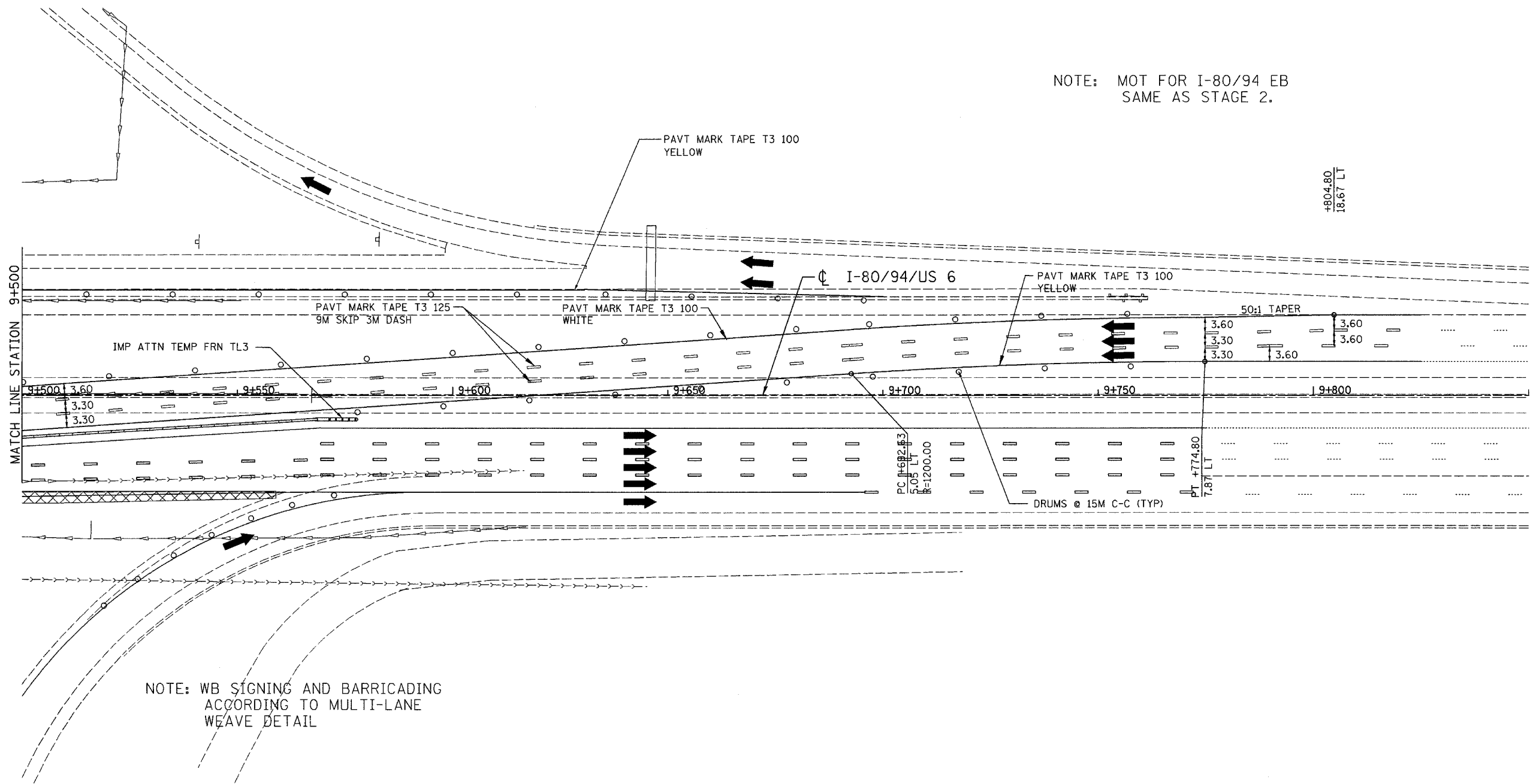
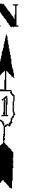


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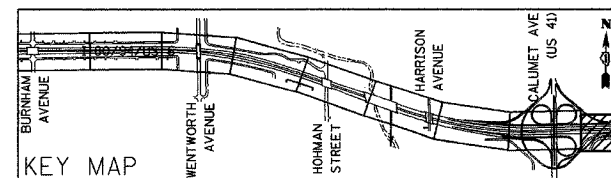
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	220
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

NOTE: MOT FOR I-80/94 EB SAME AS STAGE 2.



NOTE: WB SIGNING AND BARRICADING ACCORDING TO MULTI-LANE WEAWE DETAIL

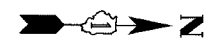
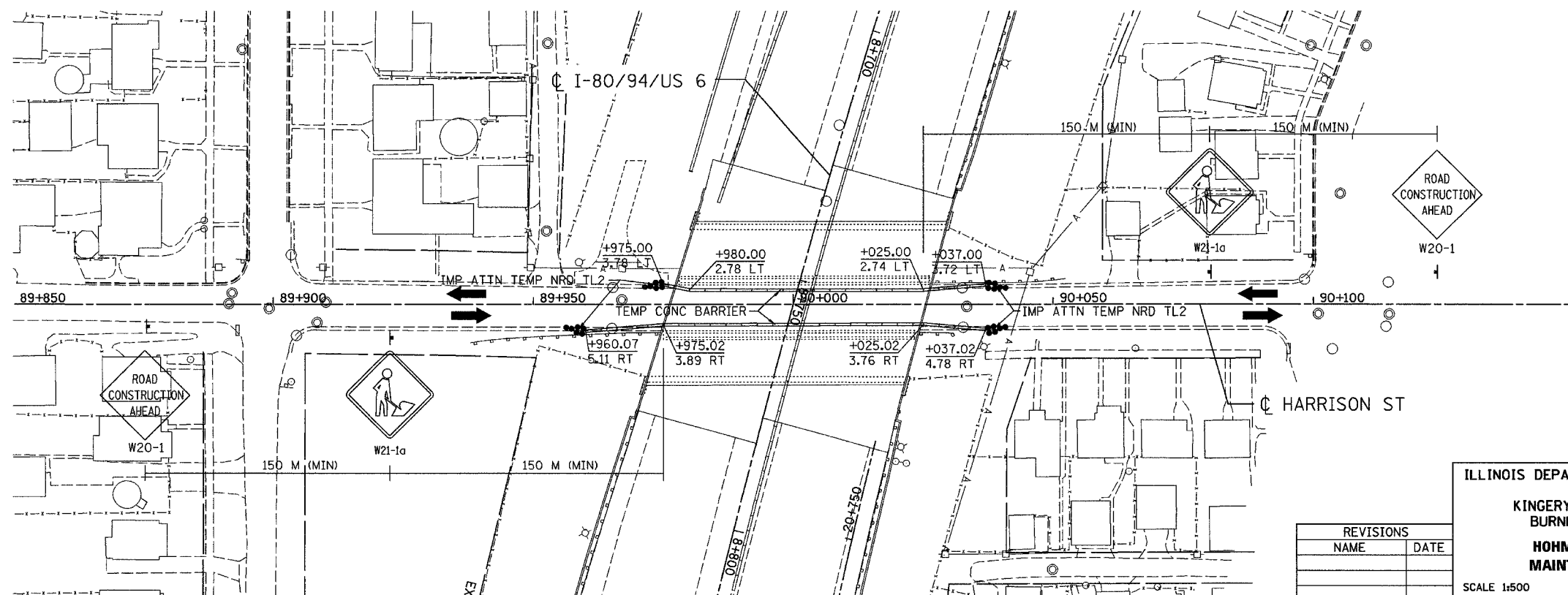
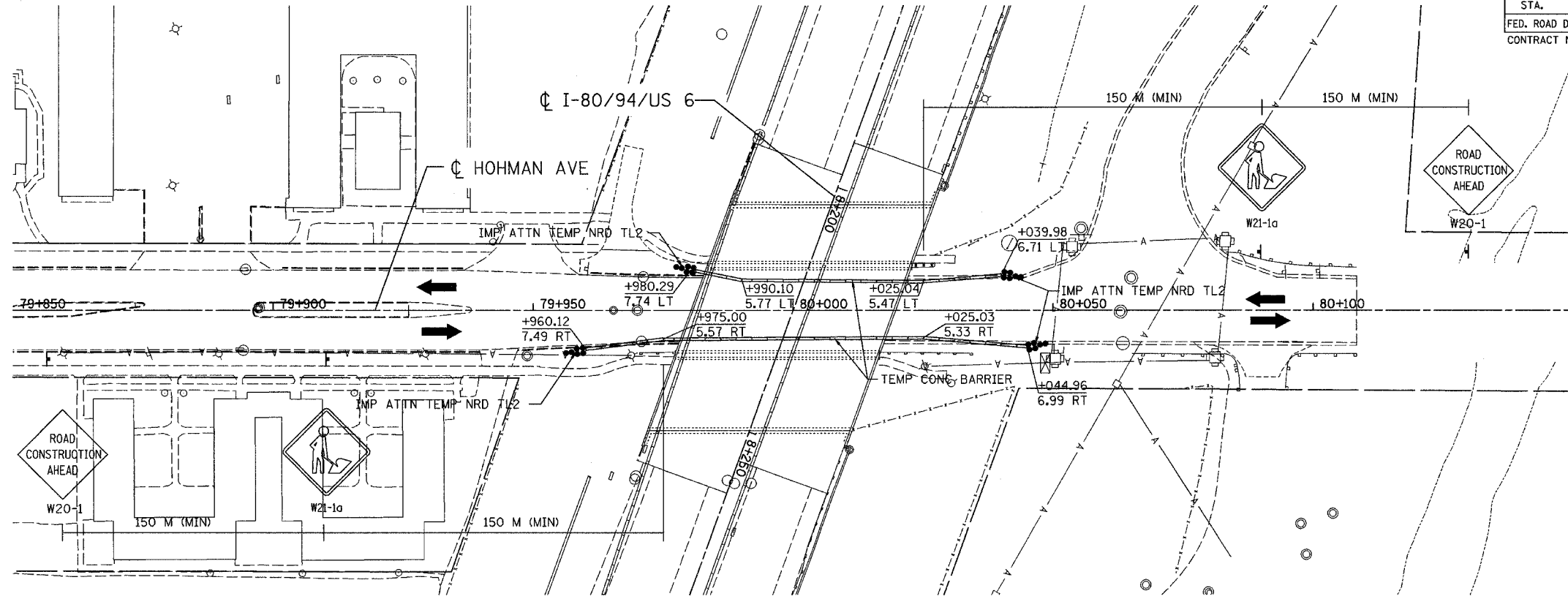


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MAINTENANCE OF TRAFFIC**  
**STAGE 3**  
**STA. 9+500 TO STA. 9+850**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	221
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41

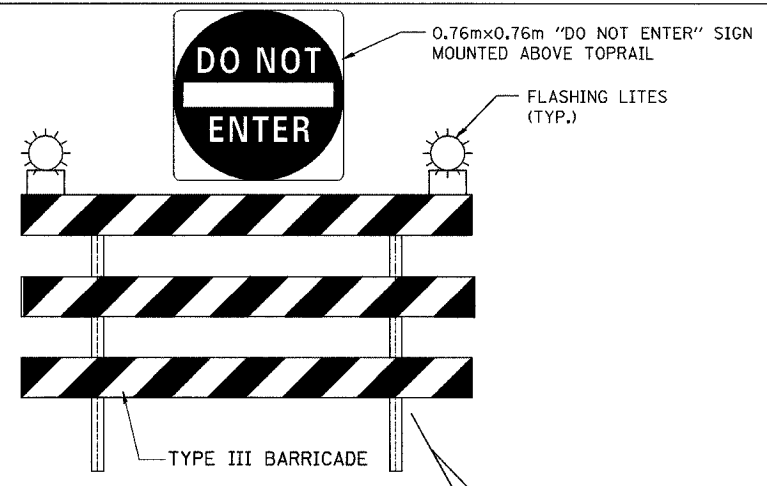
**HOHMAN AND HARRISON  
 MAINTENANCE OF TRAFFIC**

SCALE 1:500      DRAWN BY ACE/CAD  
 DATE 07/05      CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

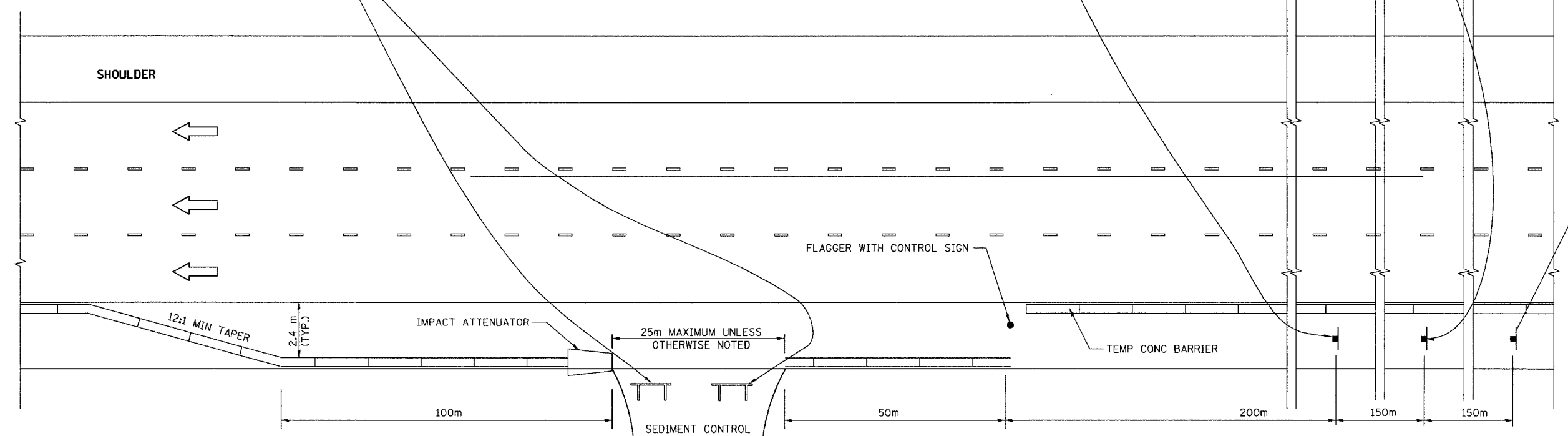
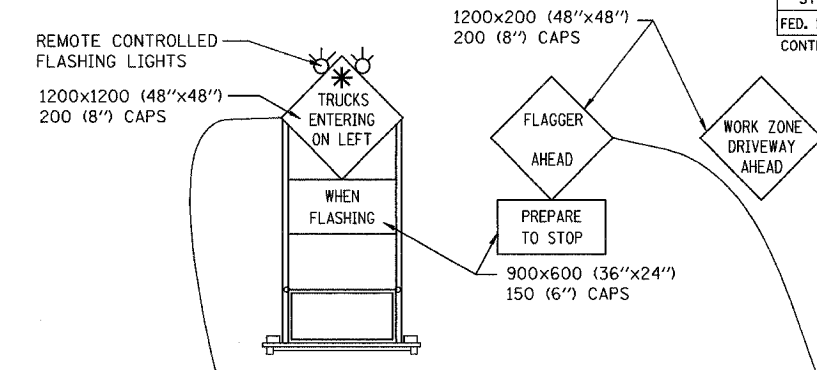
REVISIONS	
NAME	DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	222
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



\* SIGNS ARE TO READ "TRUCK ENTERING ON LEFT/RIGHT" "TRUCK LEAVING LEFT/RIGHT" AS APPLICABLE.

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE



**NOTES**

1. THE "FLAGGER AHEAD" AND "TRUCKS ENTERING ON LEFT/RIGHT" SIGNS SHALL BE MOVED OR TURNED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
2. WORK ZONE DRIVEWAYS SHALL BE LOCATED AS PER TABLE A OR AT LOCATIONS AS REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. THE FLASHING LIGHT ON THE "TRUCKS ENTERING ON LEFT" SIGN SHALL BE OPERATED BY THE FLAGGER REMOTELY. THE LIGHTS SHALL BE FLASHING ONLY WHEN A VEHICLE IS ENTERING THE EXPRESSWAY.
4. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE DRIVEWAY WILL BE PROHIBITED.
5. ALL VEHICLES SHALL ENTER THE WORK ZONE AT THESE OPENINGS. USING THEIR TURN SIGNALS TO WARN MOTORISTS.
6. INSTALL A MINIMUM OF 2 TYPE III BARRICADES WITH FLASHING LIGHTS AND 1 DO NOT ENTER SIGN AT ALL TIMES WHEN NO WORK IS PERFORMED AT THE SITE. THE COSTS OF INSTALLING, MAINTAINING AND REMOVING ALL BARRICADES AND SIGNS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)"

**MAINTENANCE OF TRAFFIC LEGEND AND SYMBOLS**

- FLAGGER WITH CONTROL SIGN
- ← DIRECTION OF TRAFFIC
- SIGN ON SUPPORT

DIRECTION OF TRAFFIC	STATION	STAGES	IMPACT ATTENUATOR, TEMP (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)
EB	7+050 RT	1, 2A	X	
EB	7+050 LT	2B		X
EB	7+750 RT	1	X	
EB	8+650 RT	1	X	
EB	8+350 LT	2A	X	
WB	9+100 LT	2A	X	
WB	8+650 LT	2A		X
WB	7+750 LT	2A		X
WB	7+050 RT	3		X
WB	7+750 RT	3		X
WB	8+375 RT	3		X
WB	8+900 RT	3		X

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
1-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**TRAFFIC CONTROL FOR  
STABILIZED CONSTRUCTION  
ENTRANCE/EXIT**

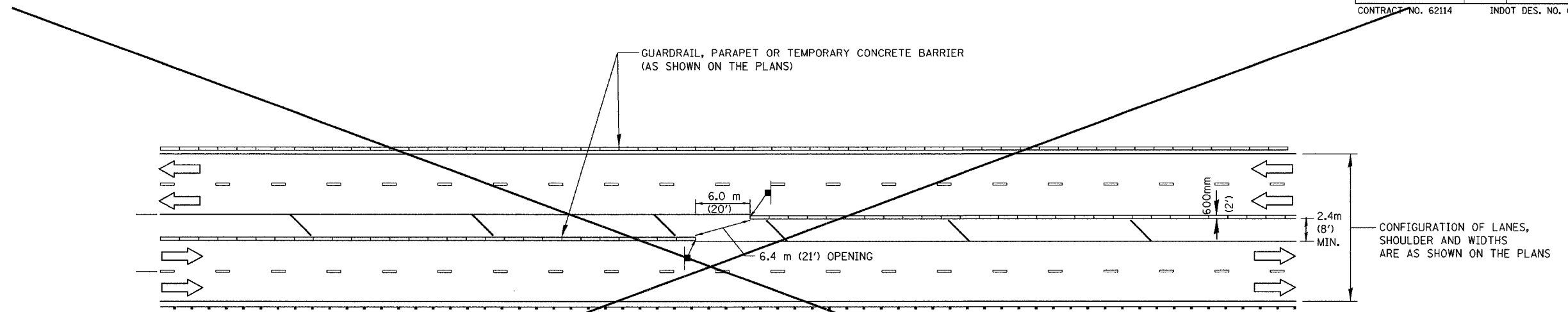
SCALE NTS  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT MARKING ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	223
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



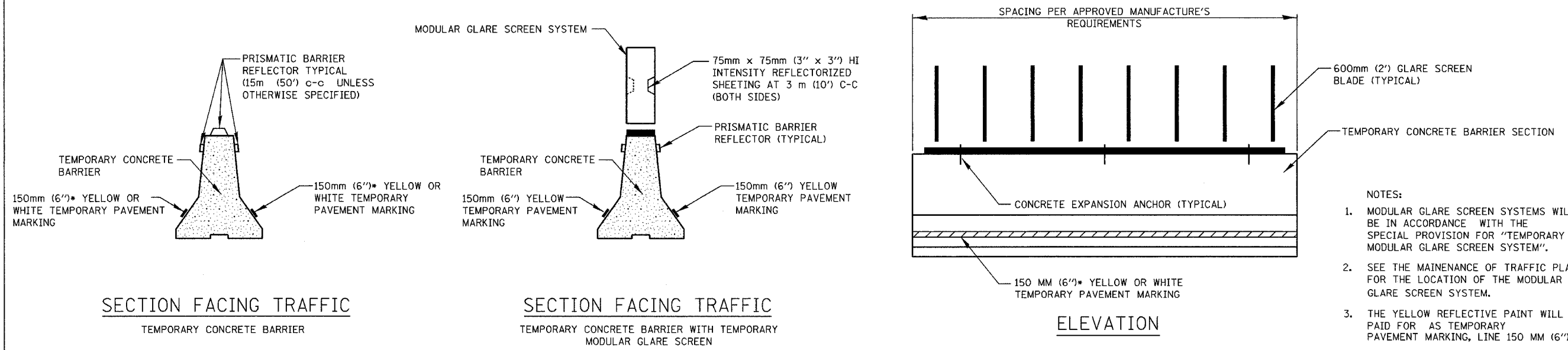
### TYPICAL EMERGENCY TURNAROUND

SEE MAINTENANCE OF TRAFFIC PLANS FOR LOCATION(S)

#### LEGEND

- TEMPORARY CONCRETE BARRIER WALL
- DIRECTION OF TRAFFIC
- NO U TURN SIGN - 1.2m X 1.2m (48" X 48")

NOTE: GUARDRAIL, PARAPET OR TEMPORARY BARRIER WALL TO BE USED ON OUTSIDE EDGE OF TRAFFIC AS REQUIRED.



- NOTES:
- MODULAR GLARE SCREEN SYSTEMS WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "TEMPORARY MODULAR GLARE SCREEN SYSTEM".
  - SEE THE MAINTENANCE OF TRAFFIC PLANS FOR THE LOCATION OF THE MODULAR GLARE SCREEN SYSTEM.
  - THE YELLOW REFLECTIVE PAINT WILL BE PAID FOR AS TEMPORARY PAVEMENT MARKING, LINE 150 MM (6'').

• YELLOW IS FOR LEFT EDGE OF TRAVEL LANE.  
WHITE IS FOR RIGHT EDGE OF TRAVEL LANE.  
(REFLECTORS AND MARKINGS ARE REQUIRED ONLY ON TRAFFIC SIDE)

### TEMPORARY CONCRETE BARRIER DETAILS

REVISIONS	
NAME	DATE
ACE	01/04
ACE	02/05

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EMERGENCY TURNAROUND AND  
TEMPORARY CONCRETE BARRIER  
DETAILS**

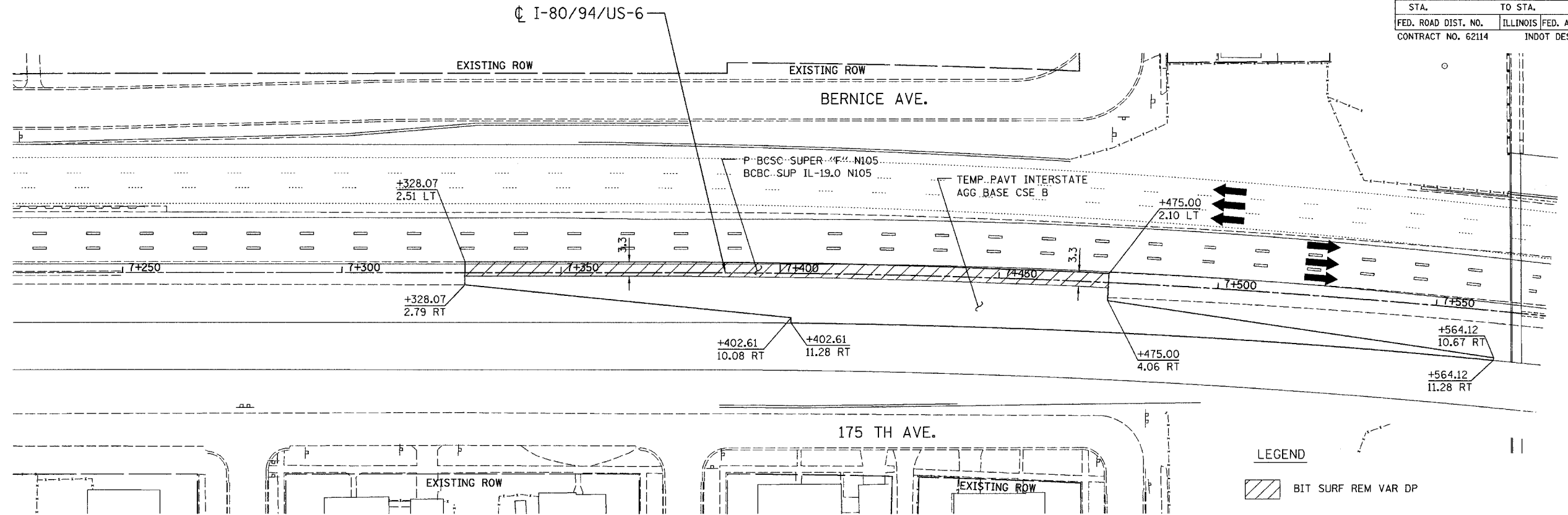
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DATE 07/05

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CHECKED BY TAE

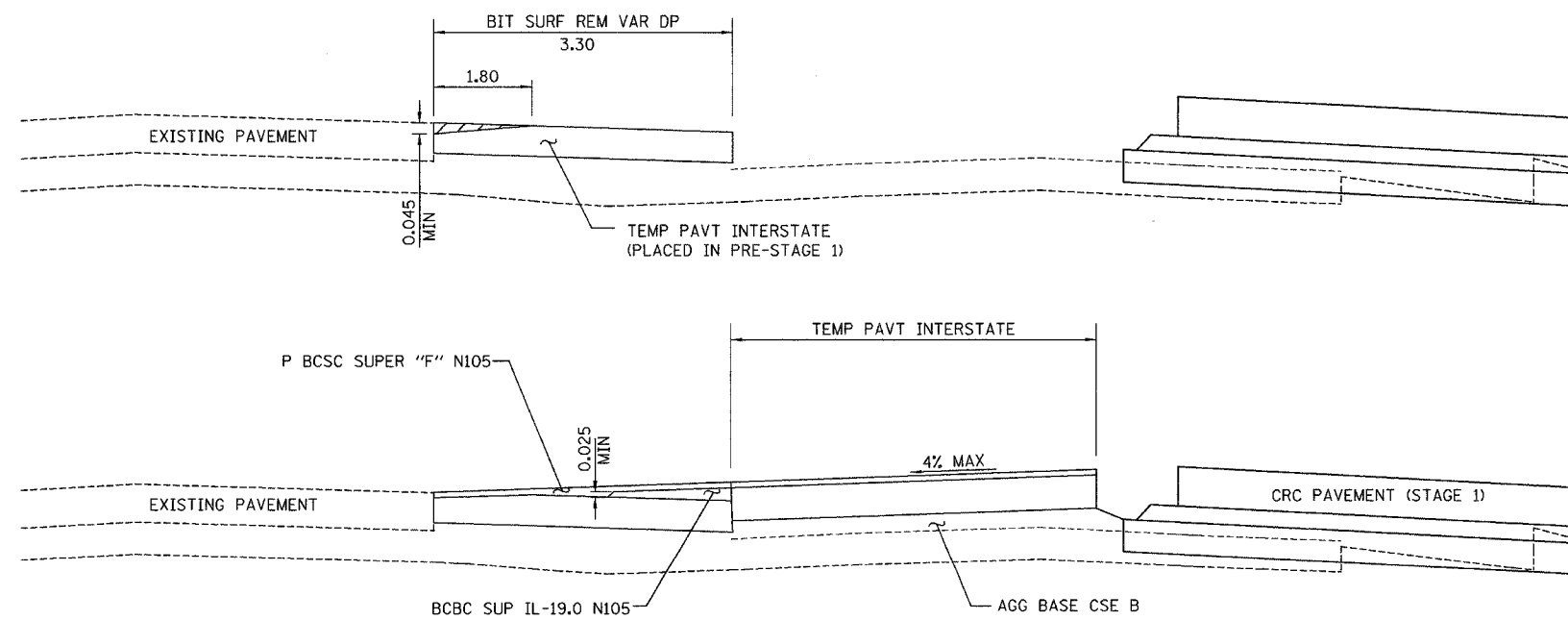
**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	224
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



STAGE 2A CROSS OVER LAYOUT



CROSS OVER CONSTRUCTION BUTT JOINTS, SPECIAL TYPICAL SECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PRE-STAGE 2 CROSSOVER  
 PAVING DETAIL**

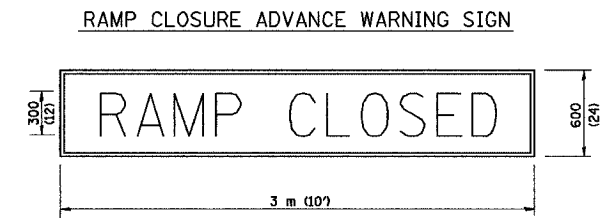
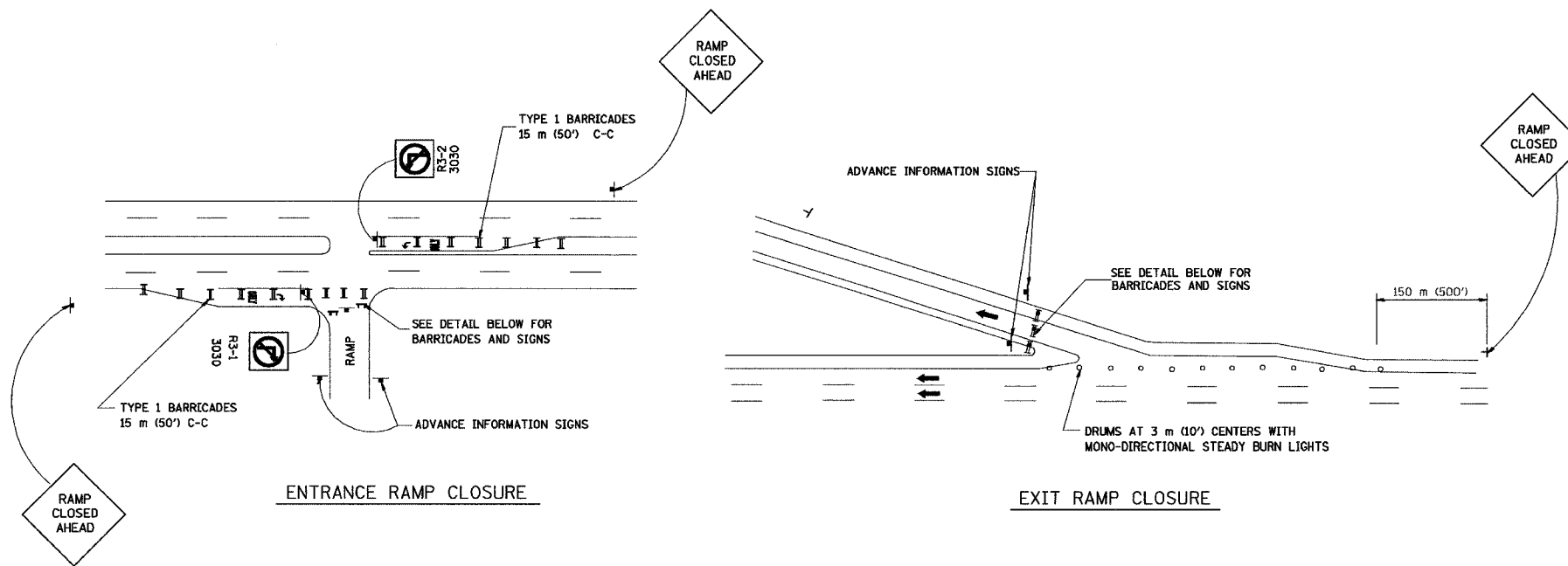
SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

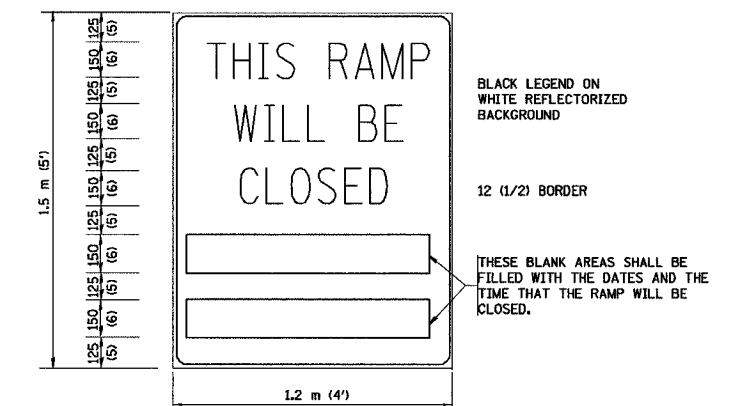


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	225
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100887		

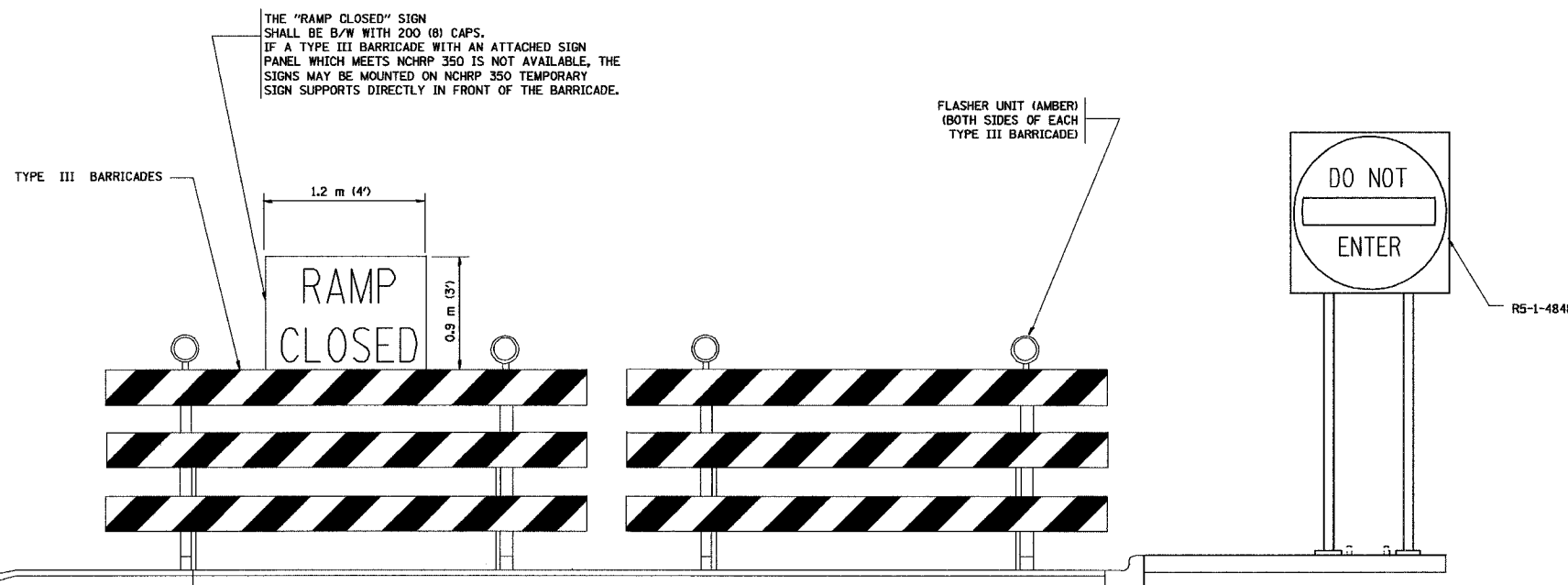


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
25 (1) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMP.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
12 (1/2) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.  
THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, A MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.



THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 200 (8) CAPS. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

FLASHER UNIT (AMBER) (BOTH SIDES OF EACH TYPE III BARRICADE)

DETAIL FOR REQUIRED BARRICADES & SIGNS

NOTES:

- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS.
- ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
Revise devices to meet NCHRP 350	4/03

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.  
ILLINOIS DEPARTMENT OF TRANSPORTATION

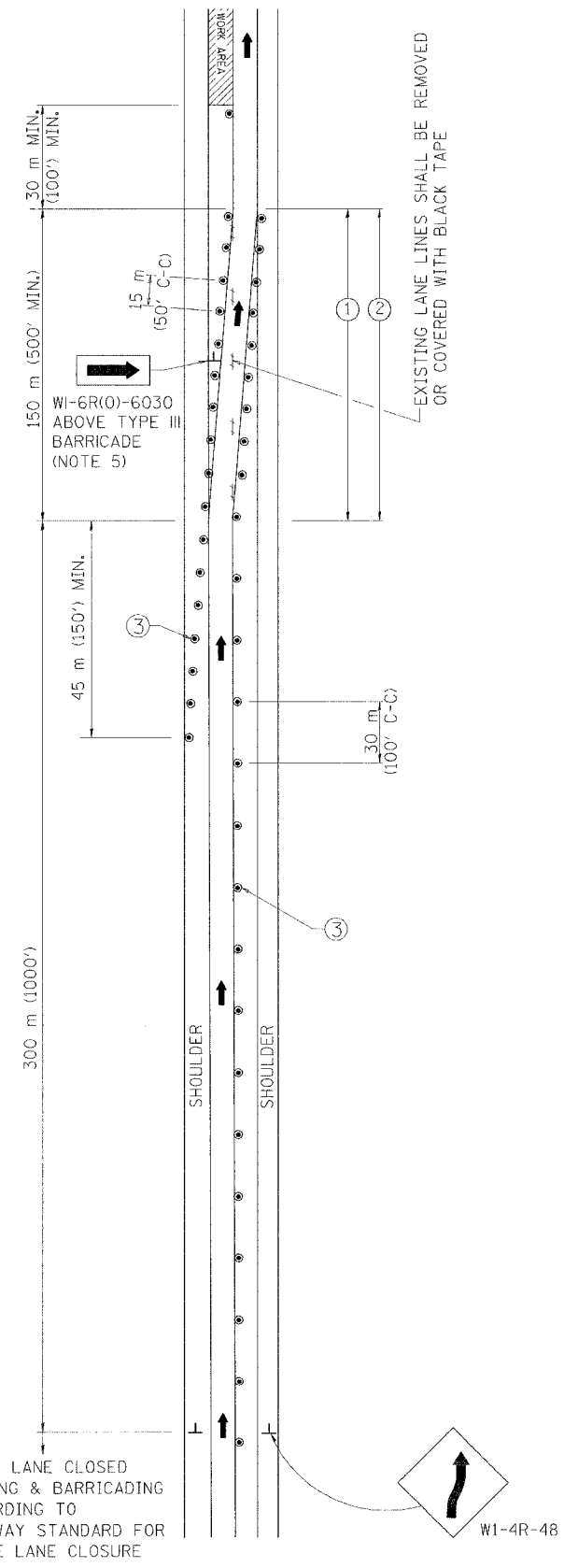
**FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS**

SCALE: NONE  
DATE 05/06/2003  
DRAWN BY  
CHECKED BY  
TC-8

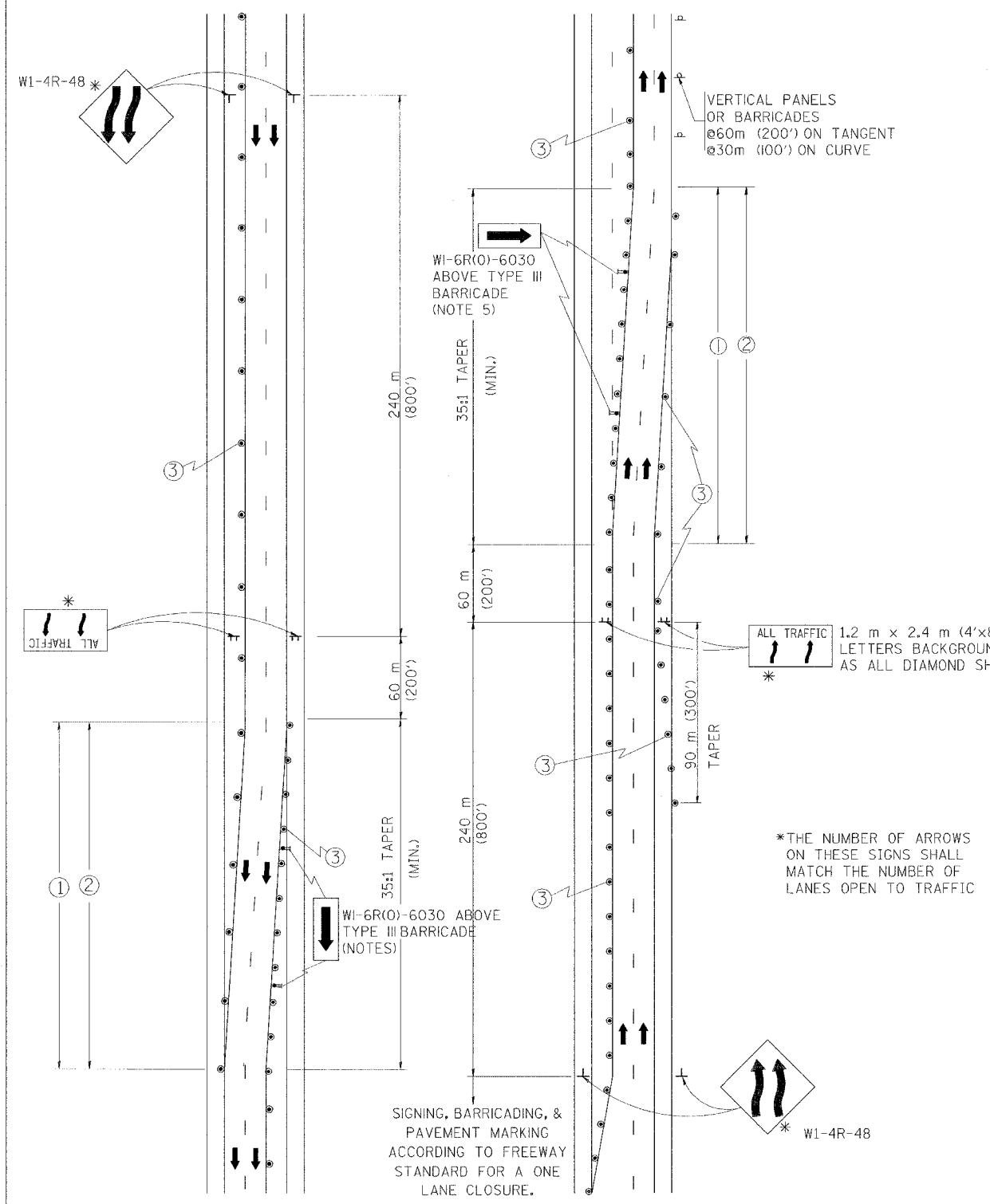
REVISION DATE: 04/03/03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8094	2628-R-2	COOK/LAKE	1207	228
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 02114		INDOT DES. NO. 0100987		

### SINGLE LANE WEAVE



### MULTI-LANE WEAVE



#### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 90 m (300') ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 3 M-9 M (10'-30') SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 15 m (50') C-C SPACING IN TAPERS AND 30 m (100') C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

#### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

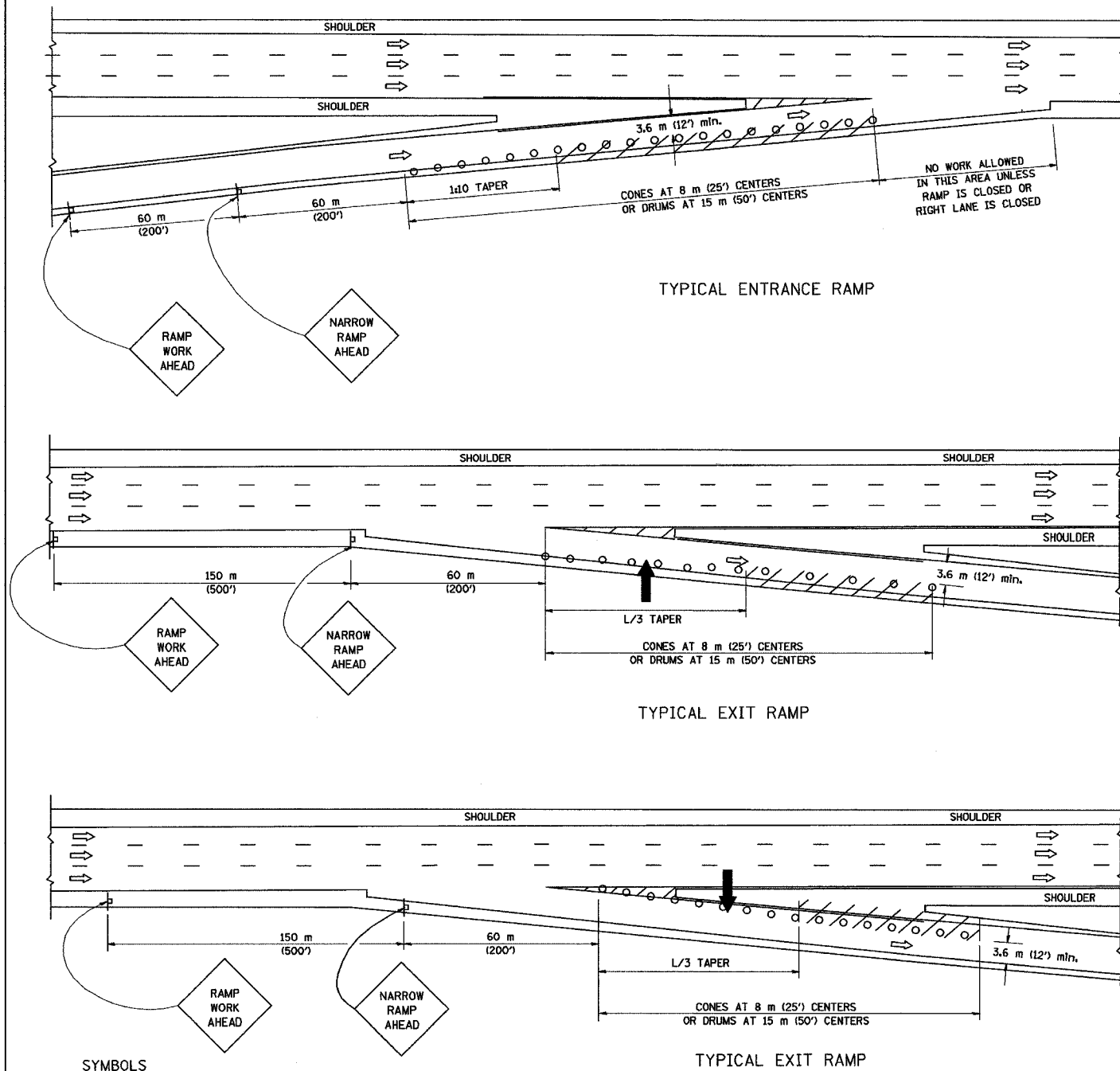
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SINGLE & MULTI-LANE WEAVE

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03

SCALE: NONE  
DATE: 05/12/2003

DRAWN BY R.H.  
CHECKED BY  
TC-9

PARTIAL RAMP CLOSURE DETAILS



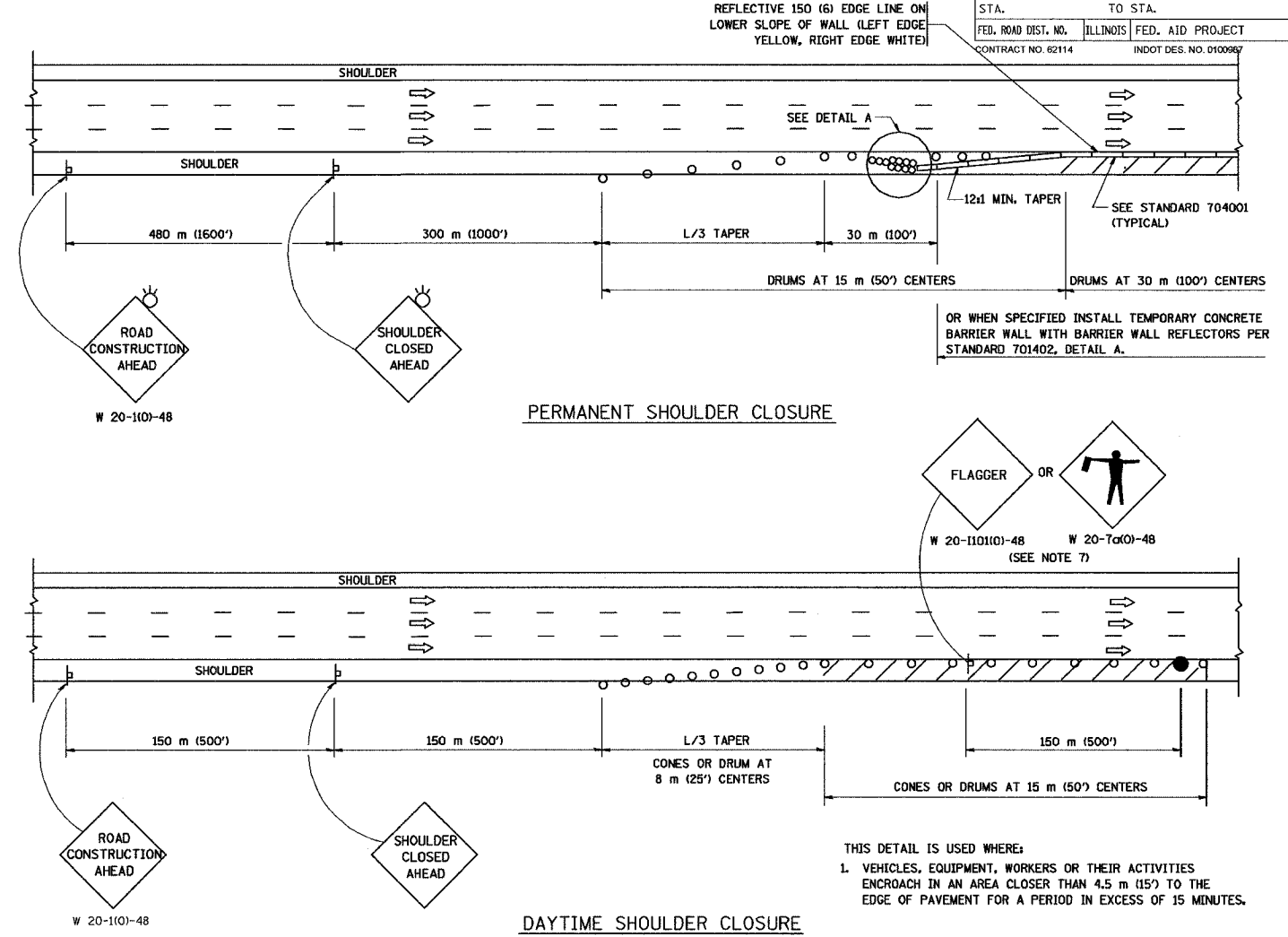
SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:  
 SPEED LIMIT FORMULAS  
 80 km/h (45 mph) METRIC  $L=0.65(W/S)$   
 OR GREATER: ENGLISH  $L=(W/S)$   
 W = WIDTH OF OFFSET IN METERS (FEET)  
 S = NORMAL POSTED SPEED KM/H (MPH)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	227
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100967		

REFLECTIVE 150 (6) EDGE LINE ON LOWER SLOPE OF WALL (LEFT EDGE YELLOW, RIGHT EDGE WHITE)

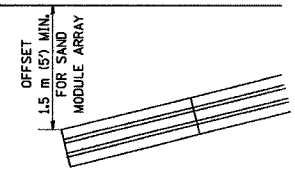
OR WHEN SPECIFIED INSTALL TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS PER STANDARD 701402, DETAIL A.

PERMANENT SHOULDER CLOSURE

DAYTIME SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.



DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS OUTSIDE THE CLEAR ZONE OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

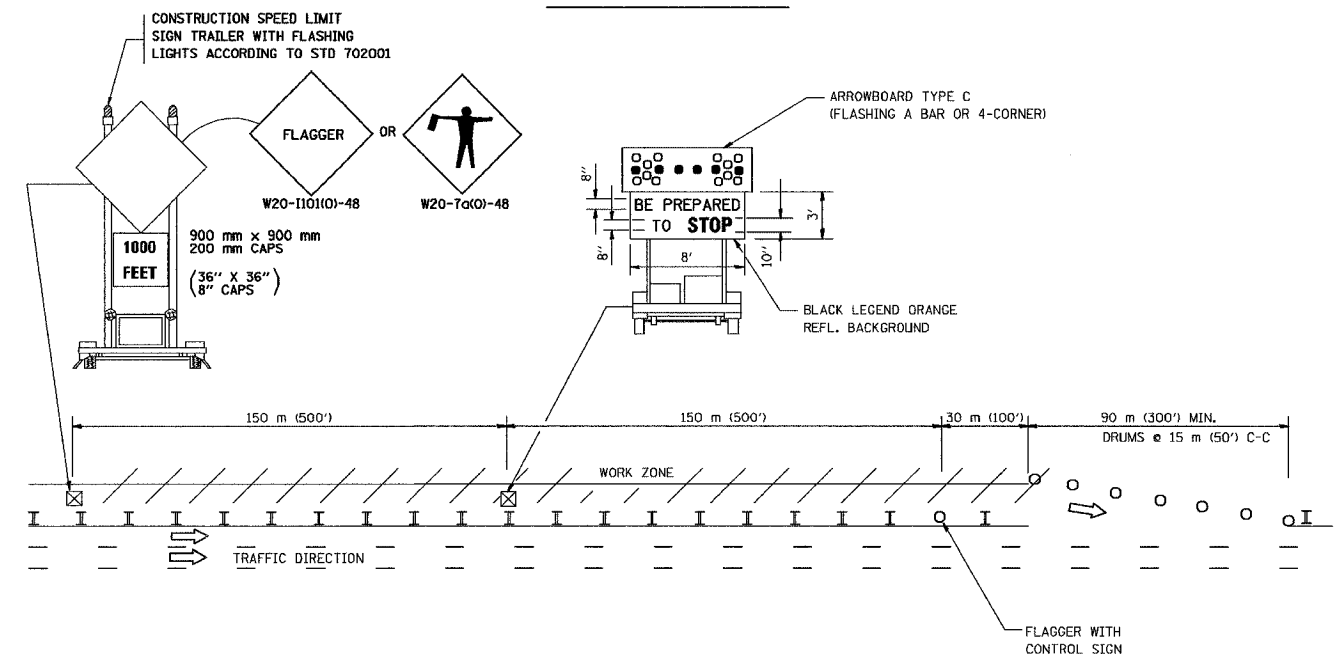
SCALE: NONE  
 DATE: 05/06/2003  
 DRAWN BY: DWS  
 DESIGNED BY: DWS  
 CHECKED BY: [blank]  
 TC-17

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

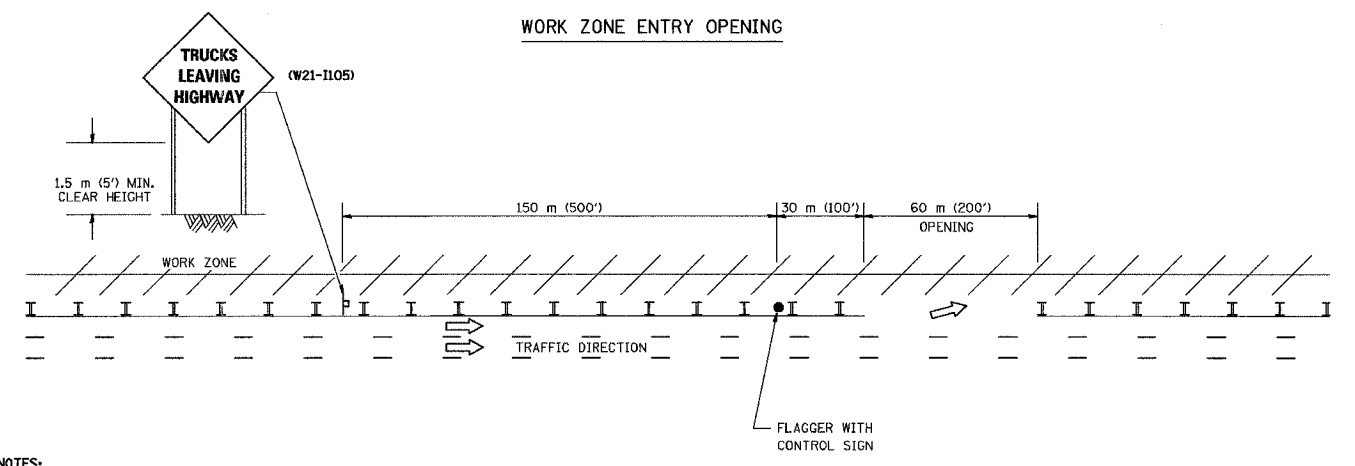
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	228
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists.

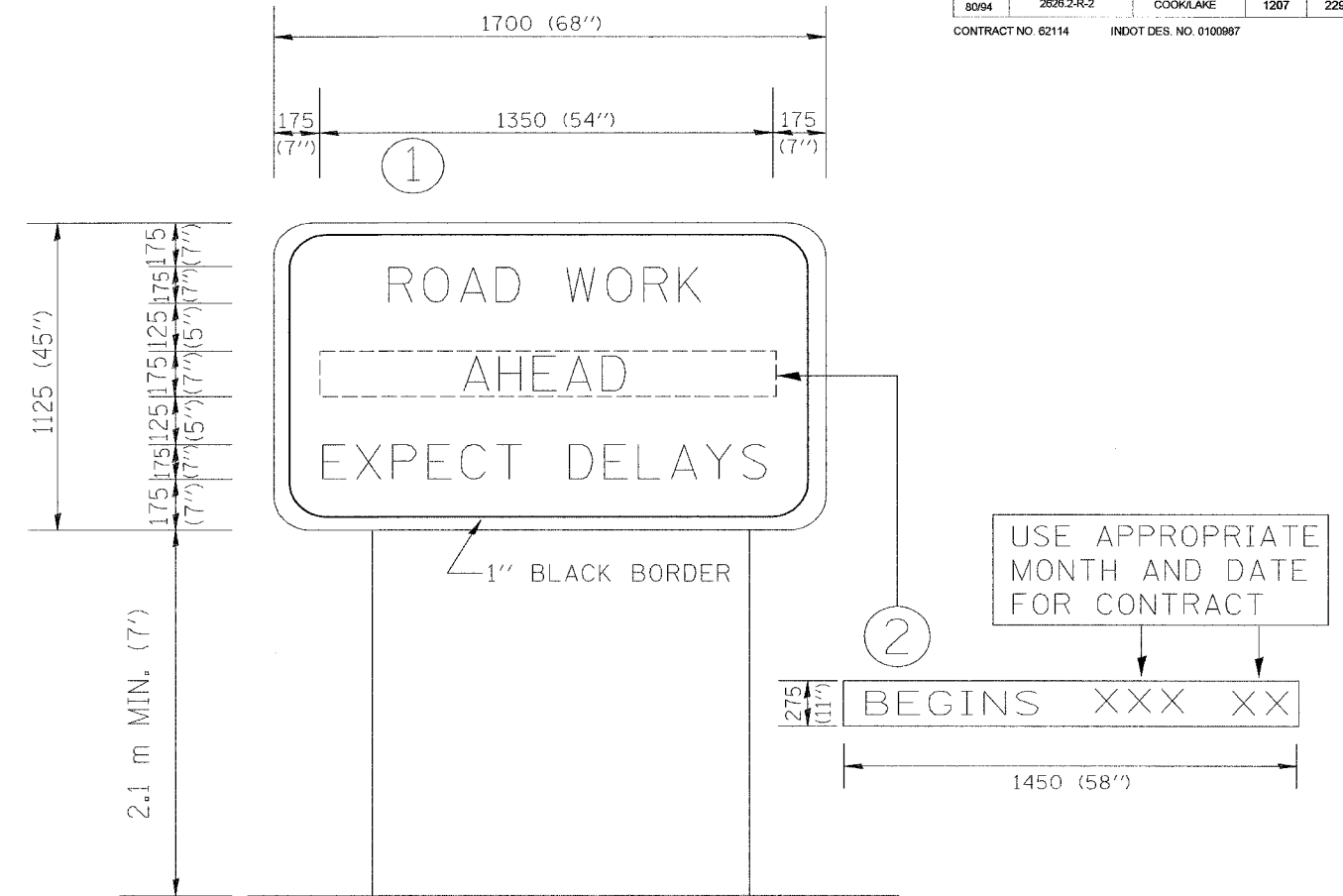
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03

SCALE: NONE  
DATE 05/06/2003  
DRAWN BY CADD  
CHECKED BY TC-18



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TEMPORARY INFORMATION SIGNING

##DATE##

DRAWN BY: BUR. OF DESIGN  
CHECKED BY

# EROSION AND SEDIMENT CONTROL

## GENERAL NOTES

1. THE WORK DESCRIBED ON THESE DRAWINGS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT, OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7. A MAXIMUM OF 4 HECTARES MAY BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 4 HECTARES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.
  - (A) WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 4 HECTARES OF GRADING AT A TIME. THE 4 HECTARE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS AND STORAGE AREAS.
  - (B) VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:
    - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
    - THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE THE WORK ON TIME.
    - THE CONTRACTOR MUST COMPLY WITH ALL OTHER CONTRACT REQUIREMENTS.
8. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
9. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 3 METERS VERTICALLY OR THE FINISHED SLOPE EQUALS 10 METERS, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
10. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 13mm.
- 10A. ALL WETLANDS AND WATER BODIES SHALL BE PROTECTED BY CHAIN LINK FENCING, 1.2M OR PERMANENT ACCESS FENCING AND "NO INTRUSION" SIGNING INSTALLED TO PROHIBIT ACCESS TO THESE SITES PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES WITHIN THE CONTRACT. FENCE AND SIGNING INSTALLED BY CONTRACT 62113.

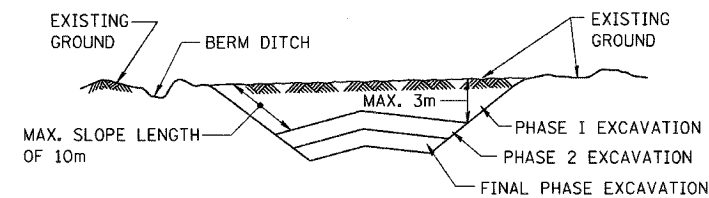
# EROSION AND SEDIMENT CONTROL LEGEND

SC	SEDIMENT CONTROL		EROSION CONTROL BLANKET		INLET AND PIPE PROTECTION
EC	EROSION CONTROL		STONE RIPRAP (CLASS AS SHOWN ON PLAN)		DITCH CHECK TEMPORARY
	SC, STABILIZED CONSTRUCTION ENTRANCE (SCSCE)		STONE OUTLET STRUCTURE SEDIMENT TRAP		SEDIMENT BASIN
	SC, SILT FENCE (SCSFP) PLAN		TEMPORARY STREAM CROSSING		SEEDING CLASS 2A
	SC, SILT FENCE (SCSFS) SECTION		DEWATERING BASIN		SEEDING CLASS 4
	DIVERSION DIKE		TREE TRUNK PROTECTION		TEMPORARY EROSION CONTROL SEEDING
	TEMPORARY DITCH		INLET FILTER		
	DITCH FLOW				
	EC, TEMPORARY PIPE SLOPE DRAIN				MAX = MAXIMUM
	EC, TEMPORARY CHANNEL DIVERSION				MIN = MINIMUM

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	230
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

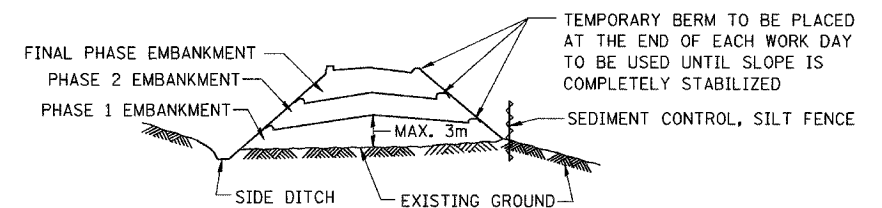
## EXCAVATION PHASING PLAN-CUT SECTION



### NOTES:

1. ALL CUT SLOPES SHALL BE EXCAVATED AND STABILIZED (PLACE TOPSOIL, PREPARE SEEDBED, APPLY SEED, PROTECT SLOPE WITH MULCH OR EROSION BLANKET) AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE FOR EXCAVATION:
  - (A) EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.
  - (B) PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
  - (C) PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVERSEED PHASE 1 SLOPES, IF REQUIRED.
  - (D) PERFORM FINAL PHASE EXCAVATION, AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE. STABILIZE SURFACE DRAIN DITCHES. OVERSEED PHASE 1 & 2 SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.
3. IF PERMANENT SEEDING CANNOT BE PLACED DUE TO CONTRACT REQUIREMENTS REGARDING PLANTING SEASONS, THE CUT SLOPE IS TO HAVE TOPSOIL PLACED AND SEEDBED PREPARED PRIOR TO USING TEMPORARY STABILIZATION WITH STRAW MULCH OR TEMPORARY SEEDING WITH EROSION BLANKET.
4. THE CONTRACTOR HAS THE OPTION OF DELAYING TOPSOIL AND/OR SEEDING BEYOND THE 3m VERTICAL LIMITATION. (SEE GENERAL NOTE 9) IF SO THE CUT SLOPE MUST BE TEMPORARILY STABILIZED, AT NO COST TO THE DEPARTMENT.
5. ONCE THE EXCAVATION WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF SLOPE STABILIZATION MEASURES. ANY INTERRUPTIONS IN THE OPERATION 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATIONS OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

## EMBANKMENT PHASING PLAN-FILL SECTION



### NOTES:

1. THE EMBANKMENT WILL BE MADE IN STAGES NOT TO EXCEED 3m. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING NEXT STAGE.
- 2.(A) AT THE END OF EACH WORK DAY TEMPORARY BERMS (EARTH) AND TEMPORARY PIPE SLOPE DRAINS WILL BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF.
- 2.(B) IN LIEU OF PERFORMING WORK DESCRIBED IN 2(A) AT THE END OF EACH WORK DAY, THE CONTRACTOR MAY EMPLOY A "CERTIFIED CONSULTANT METEOROLOGIST" TO PROVIDE A WRITTEN DAILY WEATHER FORECAST TO THE DEPARTMENT'S ENGINEER. SHOULD THE FORECAST PREDICT A 10% (OR LESS) CHANCE OF PRECIPITATION IN THE NEXT 36 HOUR TIME PERIOD, THE BERMS AND SLOPE DRAINS NEED NOT BE DONE THAT DAY. ON WORK DAYS PRECEDING NON-WORK DAYS, THE FORECAST MUST EXTEND TO THE SCHEDULED RESUMPTION OF WORK.
3. CONSTRUCTION SEQUENCE FOR EMBANKMENT
  - (A) EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
  - (B) PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - (C) PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - (D) PLACE FINAL PHASE EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.
4. ONCE THE PLACEMENT OF FILL WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF PERMANENT VEGETATIVE PLAN. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

REVISIONS	
NAME	DATE
J.P.W.	1/19/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

EROSION AND SEDIMENT CONTROLS  
GENERAL NOTES AND LEGEND

SCALE NONE DRAWN BY JPW  
DATE 07/05 CHECKED BY PAC



SEE NEXT SHEET FOR CONTINUATION

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	231
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**EROSION AND SEDIMENT CONTROLS  
GENERAL NOTES (CONTD.)**

11. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, SILT FENCE STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
12. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE, AND STABILIZED IMMEDIATELY AFTER FINAL SHAPING OF THE PILE IN ACCORDANCE WITH MULCH, METHOD 2. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
13. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN THE (VICINITY) OF THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.
14. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
15. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
16. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE LEFT IN PLACE. THESE MEASURES WILL NOT BE REMOVED BY THE CONTRACTOR.
17. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
  - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
  - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
  - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
18. SEEDING USAGE
 

CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.

CLASS 4 USED ON PERMANENT 1:2 SLOPES AND 1:3 SLOPES HIGHER THAN 3 METERS.

TEMPORARY EROSION CONTROL SEEDING USED ON SHORT TERM TEMPORARY SEEDING.

TOP SOIL PLACEMENT:
19. TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARILY STEEP SLOPES.

**EROSION AND SEDIMENT CONTROL (ESC) STRATEGY**

RECEIVING WATERS: LITTLE CALUMET RIVER

1. ERECT NEW PERIMETER EROSION BARRIER AS SHOWN IN THE PLANS.
2. ERECT CHAIN LINK FENCE TO PROTECT WETLAND, AS REFERRED TO IN NOTE 10A.
3. MAINTAIN EXISTING GROUND COVER IN AREAS NOT DISTURBED BY FOUNDATION EXCAVATION.
4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES (SCE), CLEAN AS NECESSARY.
5. PLACE EMBANKMENT ACCORDING TO "EMBANKMENT PHASING PLAN - FILL SECTION"
6. TEMPORARY SEED AND BLANKET SIDESLOPES IN ACCORDANCE WITH ESC GENERAL NOTES AND EROSION CONTROL PLAN.
7. PLACE AGGREGATE SUBBASE, STABILIZED SUBGRADE AND CRC PAVEMENT AND SHOULDERS.
8. REMOVE AND REERECT PERIMETER EROSION BARRIER AS NECESSARY.
9. RESTABILIZE EDGE OF SHOULDER AREAS AS REQUIRED.
10. WATERING OF ALL SEEDED AREAS MAY BE REQUIRED, AND PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

**EROSION AND SEDIMENT CONTROL AT SHOULDER WIDENING AREAS**

(IMPACT ATTENUATORS AND STABILIZED CONSTRUCTION ENTRANCES)

THE CONTRACTOR SHALL COMPLETE THE SHOULDER WIDENING OPERATION WITHIN FIVE (5) CALENDER DAYS, ACCOMPLISHING THE FOLLOWING IN THE ORDER:

1. PLACE TEMPORARY DITCH CHECKS DOWNSTREAM OF THE WORK AREA.
2. TOPSOIL EXCAVATION AND PLACEMENT (TOPSOIL REMOVAL)
3. EARTH EXCAVATION (CUT AND FILL TO RELOCATE DITCH)
4. TEMPORARY EROSION CONTROL SEEDING OR SEEDING CLASS 2A
5. EROSION CONTROL BLANKET OVER DISTURBED SITE
6. EROSION CONTROL, TEMPORARY PIPE SLOPE DRAIN AT THE LOW POINT OF THE WIDENED SHOULDER.
7. SEDIMENT CONTROL, SILT FENCE AT EDGE OF WIDENEN SHOULDER. SILT FENCE EXTENDS 3.0 METERS BEYOND THE DISTURBED AREA.


REVISIONS	
NAME	DATE
J.P.W.	1/19/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

EROSION AND SEDIMENT CONTROL  
GENERAL NOTES AND STRATEGY

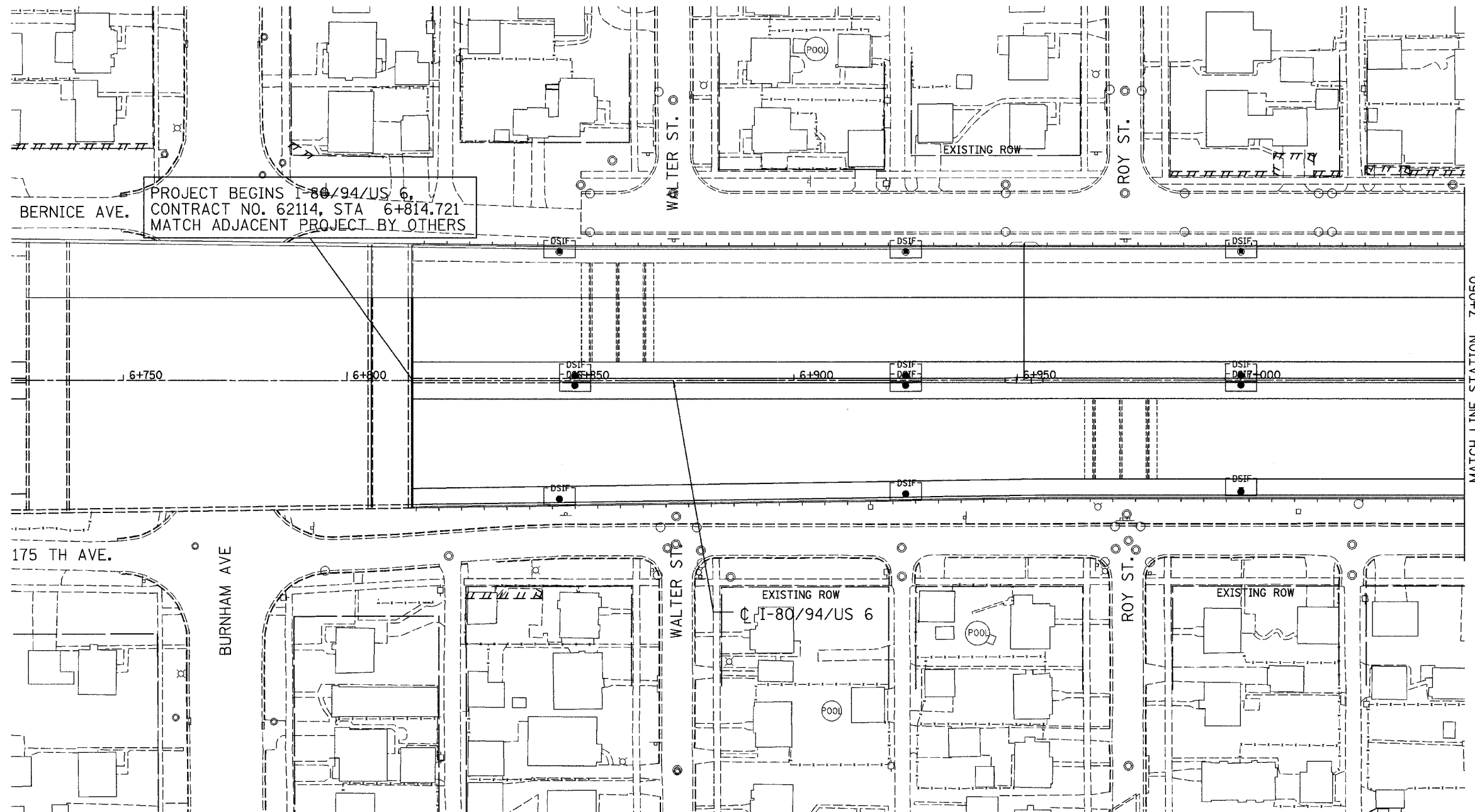
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DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE



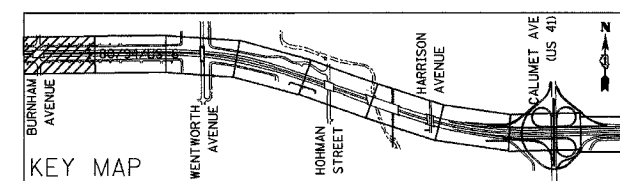
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 232
STA. 6+814.721		TO STA. 7+050		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



PROJECT BEGINS I-80/94/US 6,  
CONTRACT NO. 62114, STA 6+814.721  
MATCH ADJACENT PROJECT BY OTHERS

MATCH LINE STATION 7+050



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

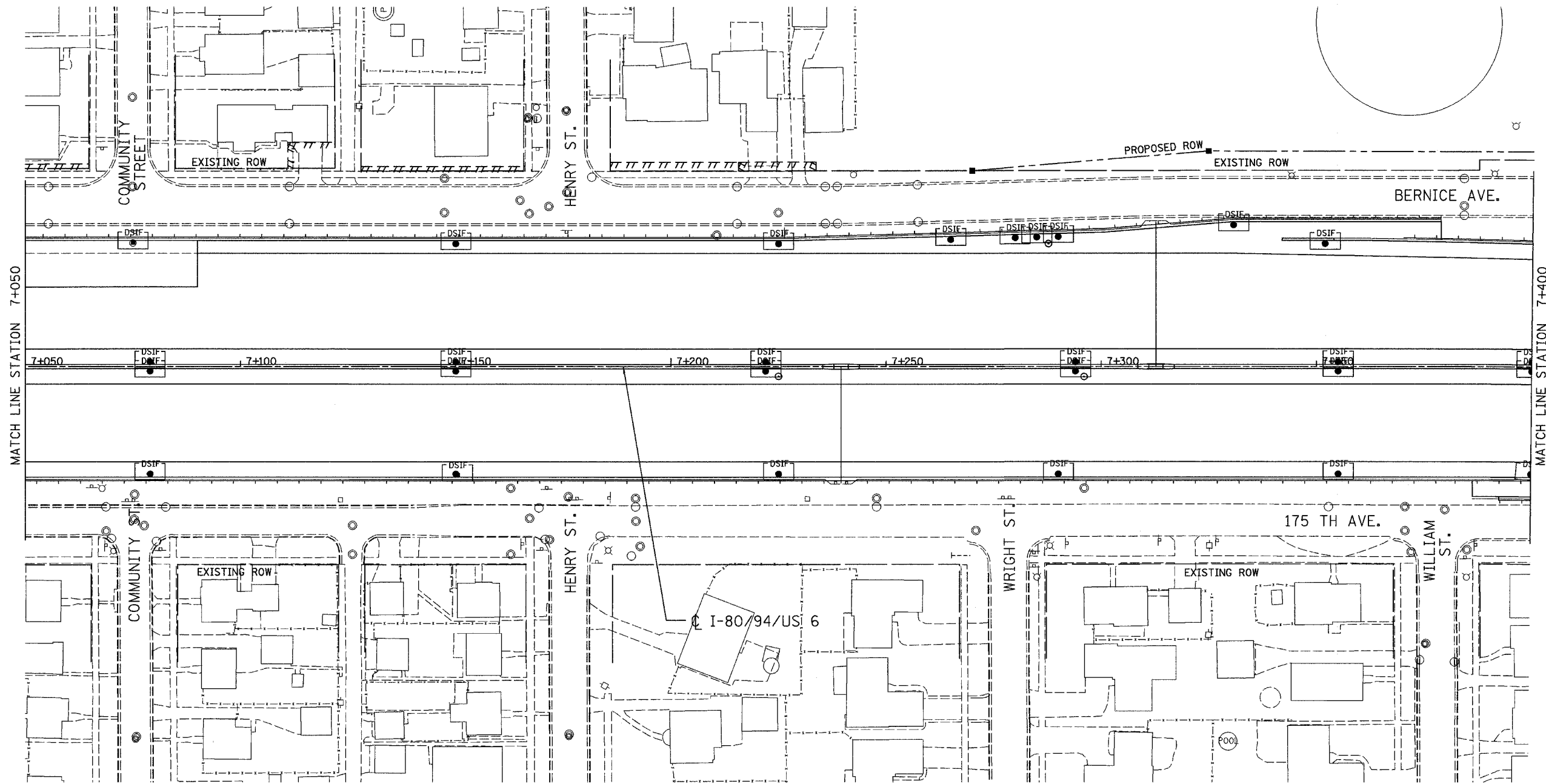
STA. 6 + 814.721 TO STA. 7 + 050  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS



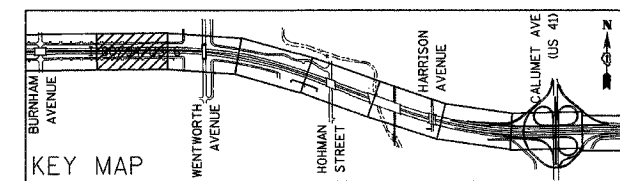
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 233
STA. 7+050		TO STA. 7+400		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 7+050

MATCH LINE STATION 7+400



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

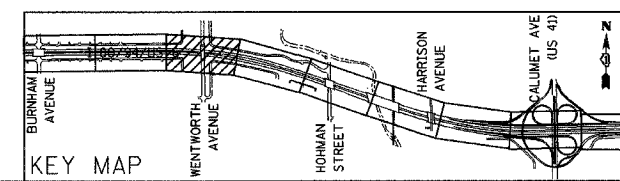
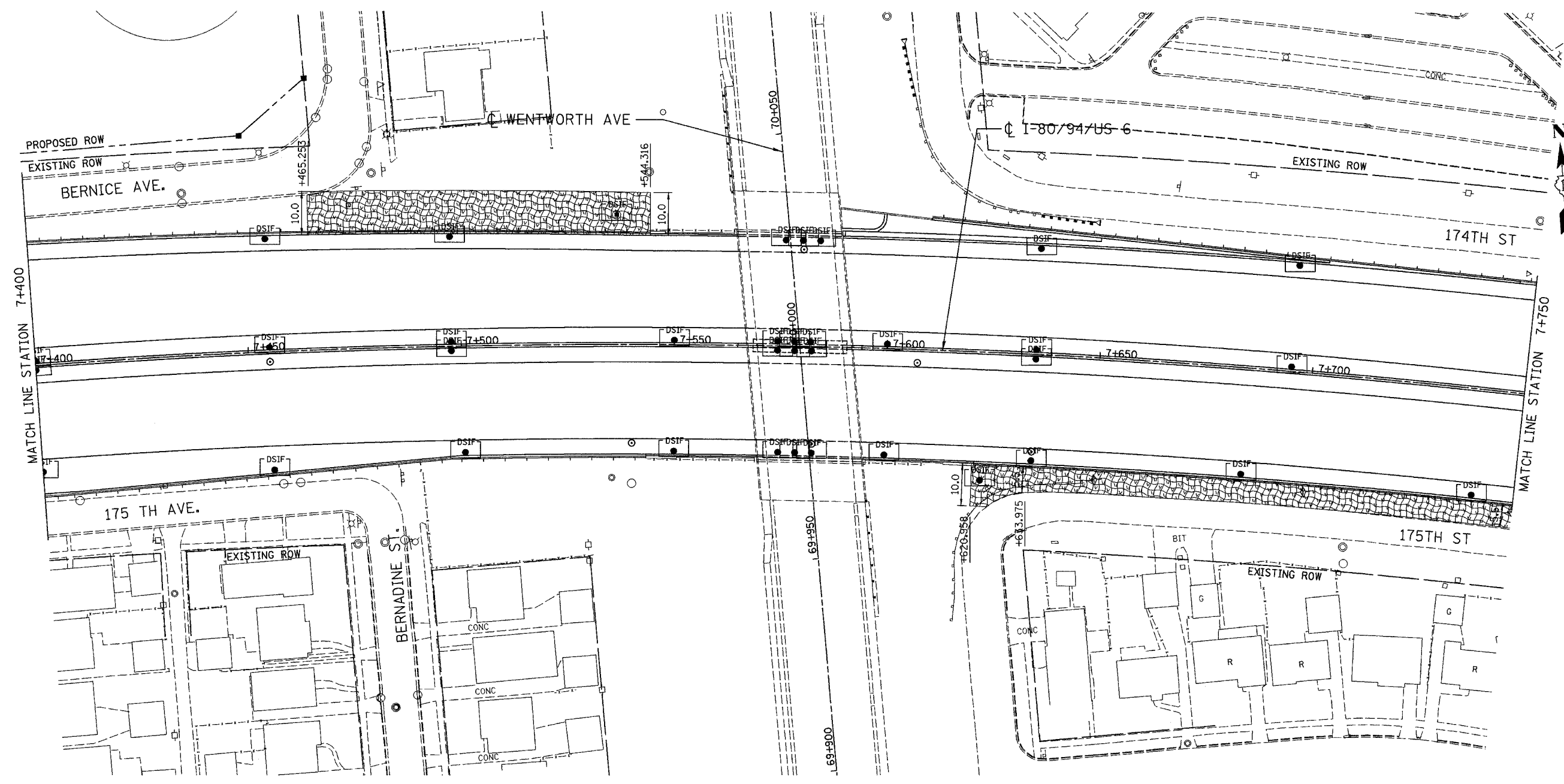
**STA. 7+050 TO STA. 7+400**

SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	234
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

**STA. 7+400 TO STA. 7+750**

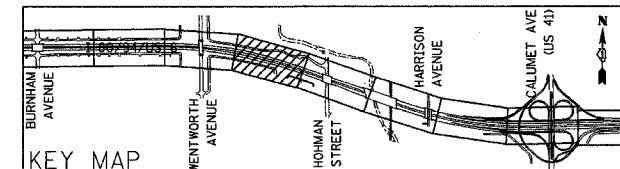
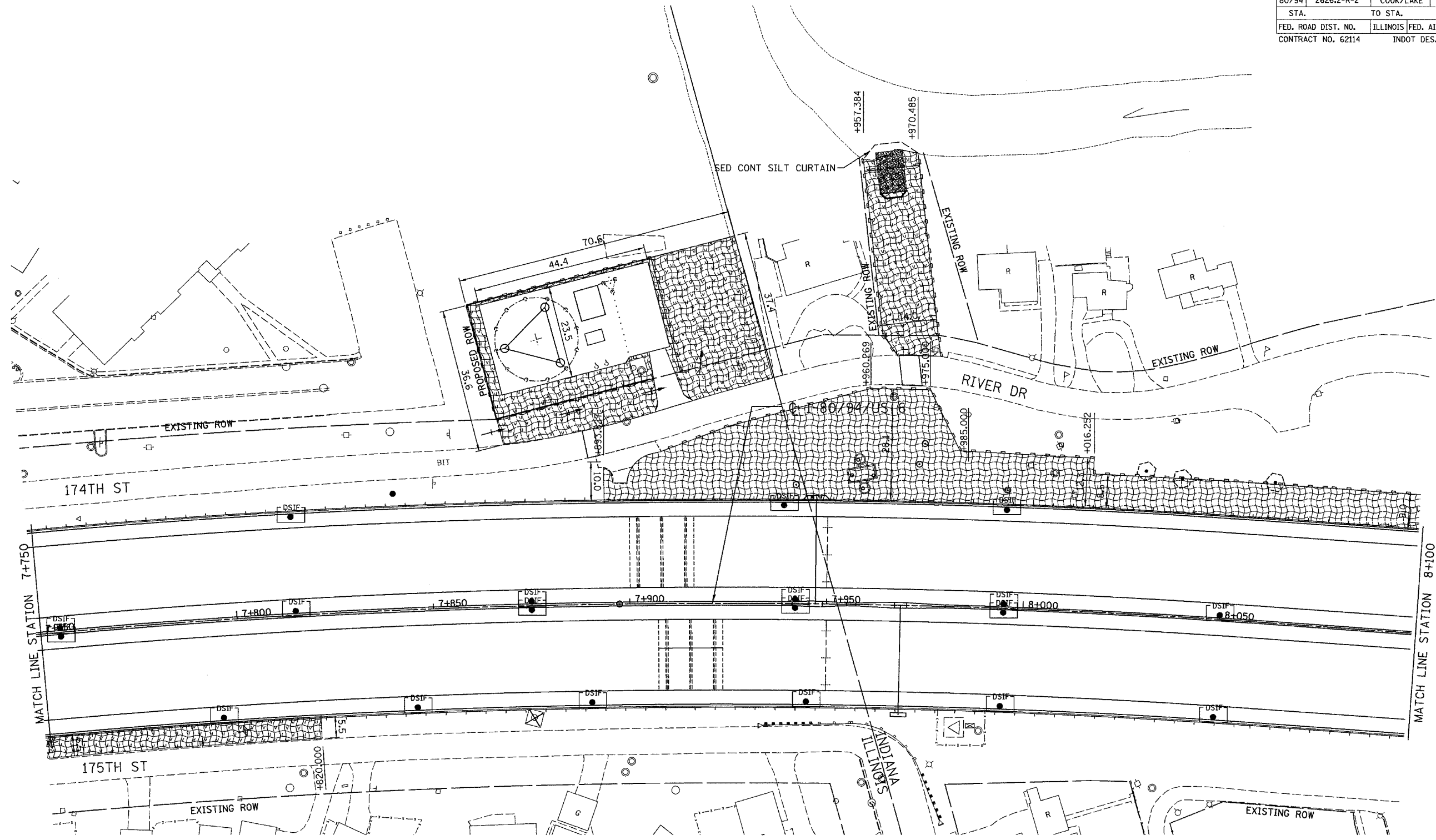
SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	235
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

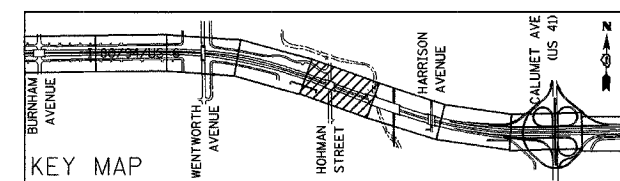
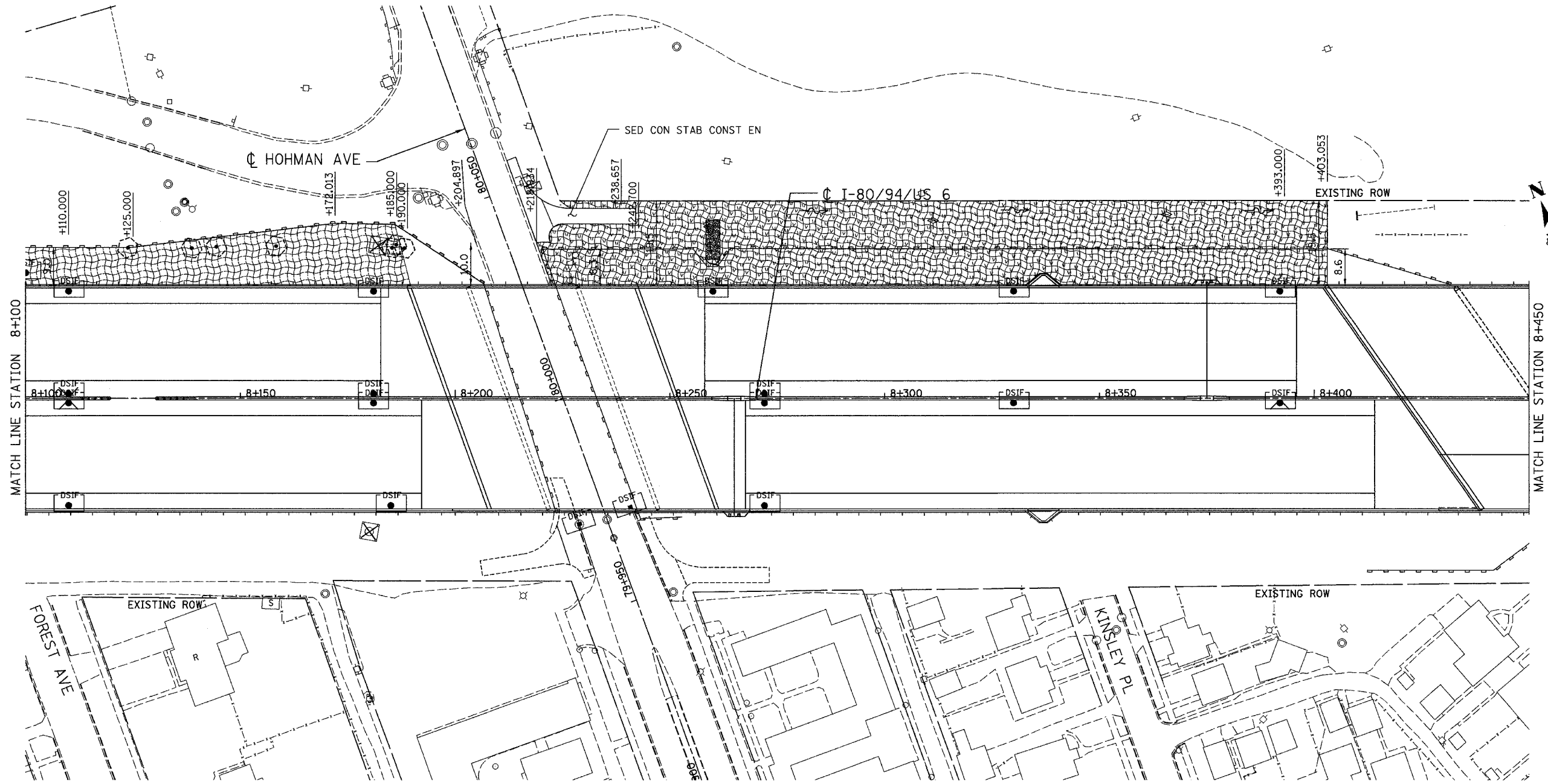
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 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	236
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

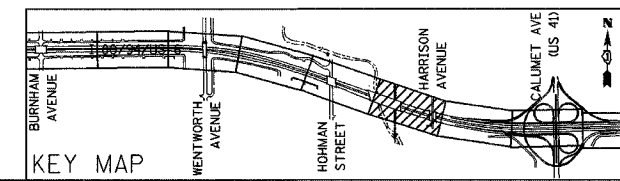
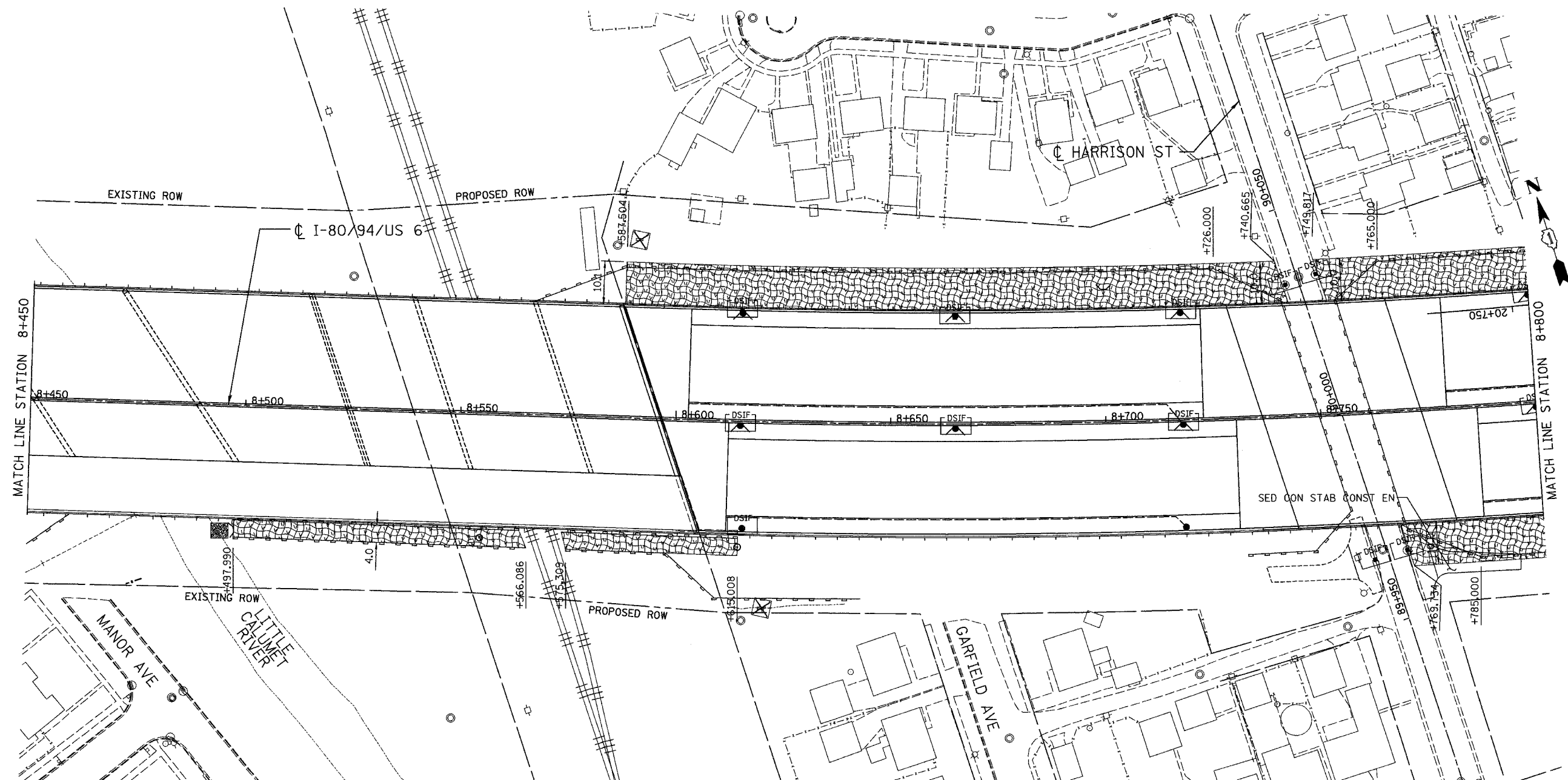
**STA. 8+100 TO STA. 8+450**

SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	237
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

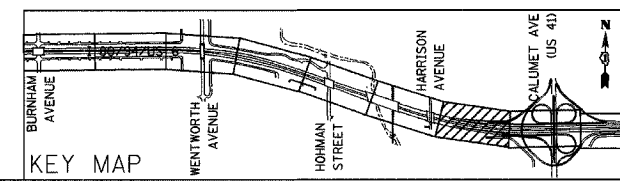
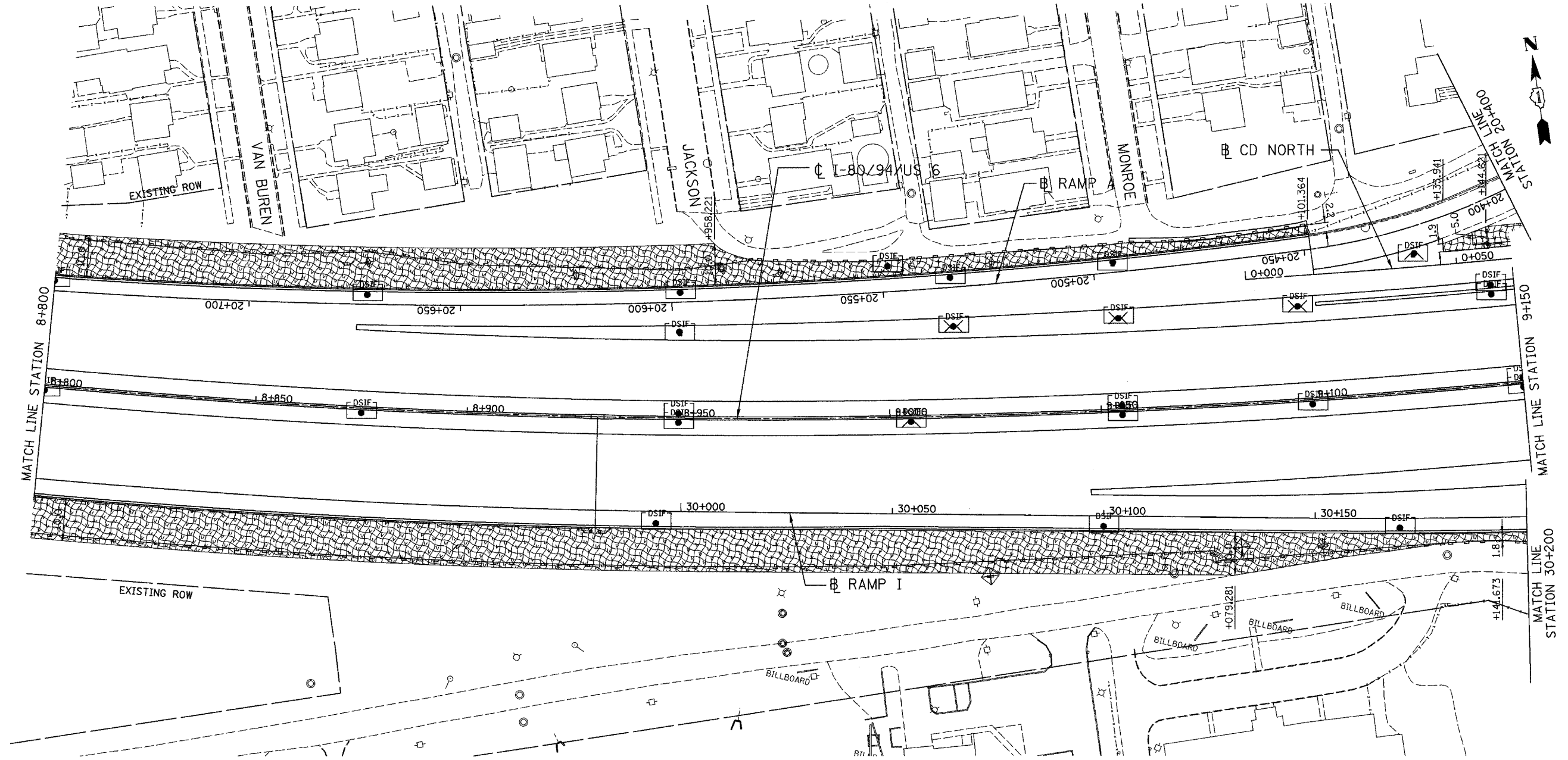
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

**STA. 8 + 450 TO STA. 8 + 800**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	238
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

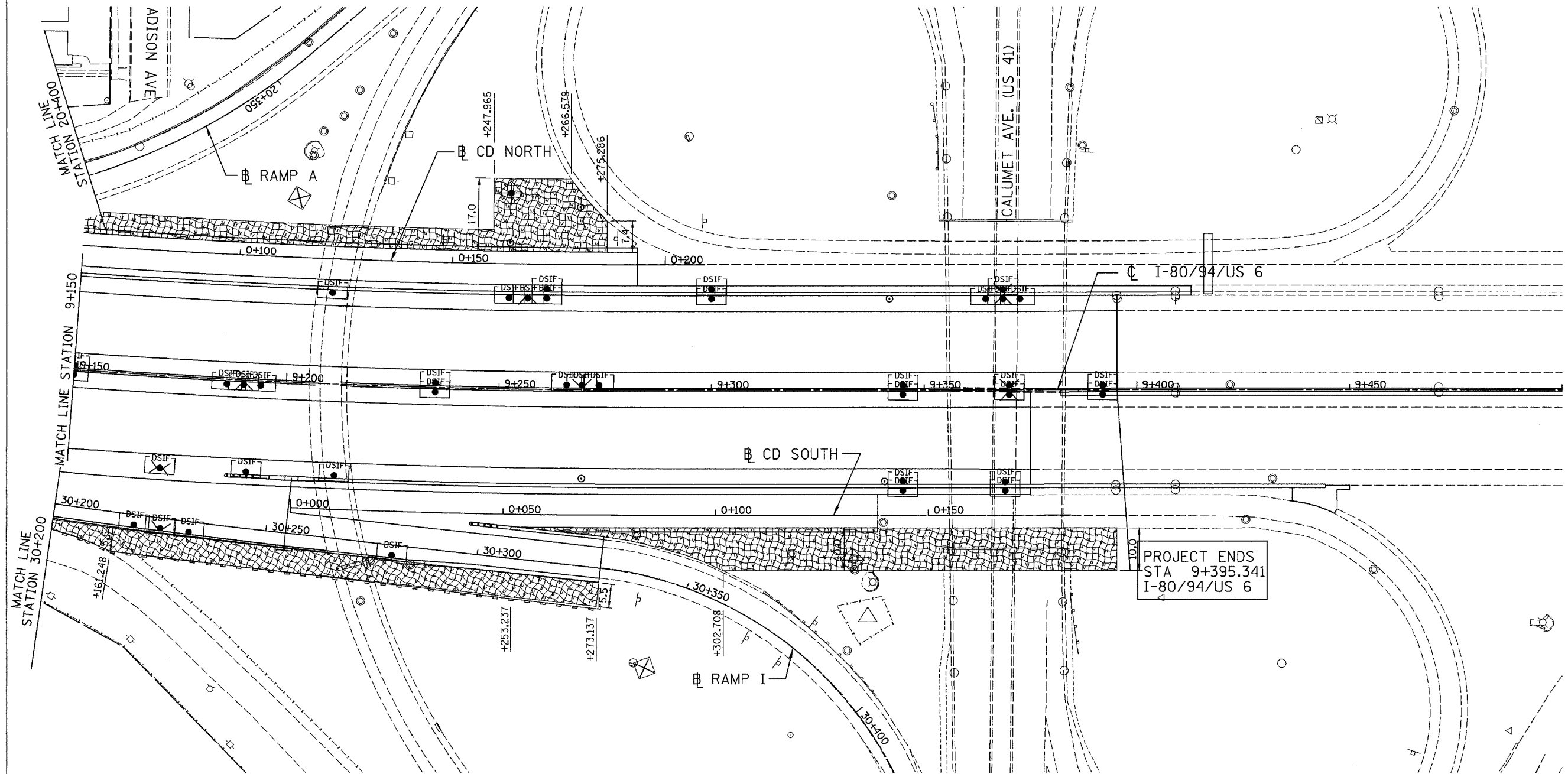
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SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

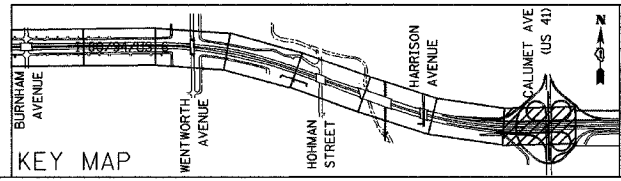
**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	239
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6



KEY MAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EROSION SEDIMENT CONTROL PLAN**

STA. 9+150 TO STA. 9+500  
SCALE 1:500  
DATE 07/05

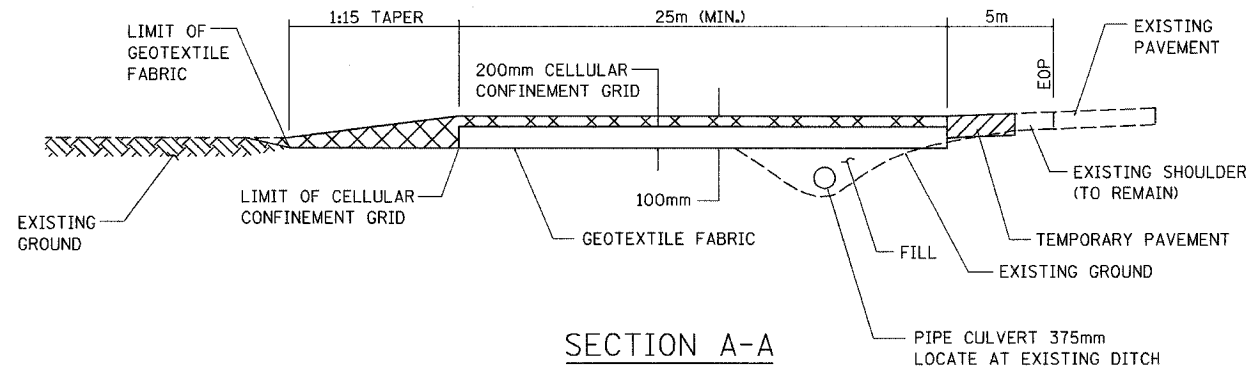
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CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

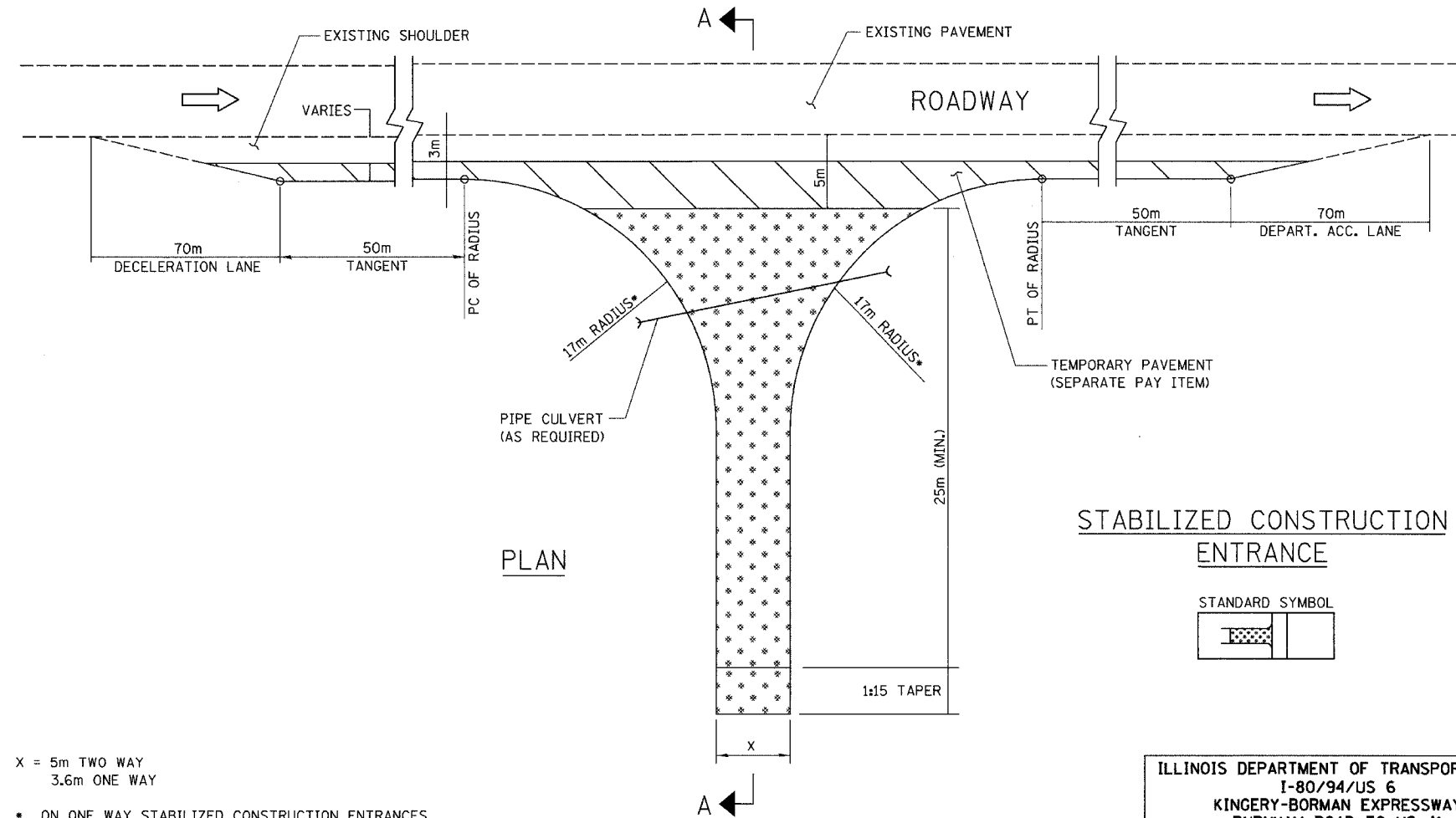
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	240
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

### CONSTRUCTION SPECIFICATIONS AND NOTES

- STABILIZED CONSTRUCTION ENTRANCE
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN 25 METERS.
  - THICKNESS - NOT LESS THAN 100mm, ABOVE TOP OF CELLULAR CONFINEMENT GRID.
- TEMPORARY PAVEMENT
  - PROVIDE A MINIMUM WIDTH OF 3.0m OF SHOULDER AND TEMPORARY PAVEMENT FOR DECELERATION/ACCELERATION LANE.
  - TEMPORARY PAVEMENT THICKNESS SHALL BE 255 mm. AND CONSIST OF:
    - BITUMINOUS BASE COURSE, SUPERPAVE 210 mm
    - BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, N50, MIX D 45 mm
  - A 2.0m, APRON SHALL BE PROVIDED IN ADDITION TO 3.0m WIDTH.
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- STABILIZED CONSTRUCTION ENTRANCES SHALL NOT BE PLACED DIRECTLY ACROSS FROM EACH OTHER.
- EXISTING DITCH DRAINAGE TO BE MAINTAINED.
- GRADE FILL TO 1:10 ON APPROACH SIDE OF ENTRANCE
- FOR TRAFFIC CONTROL FOR STABILIZED CONSTRUCTION/EXIT DETAIL, SEE SHEET 222

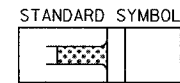


SECTION A-A





PLAN

### STABILIZED CONSTRUCTION ENTRANCE



LEGEND

	TEMPORARY PAVEMENT
	STABILIZED AGGREGATE DRIVEWAY

X = 5m TWO WAY  
3.6m ONE WAY


- ON ONE WAY STABILIZED CONSTRUCTION ENTRANCES THE MAJOR MOVEMENT RADIUS SHALL BE 17 METERS. THE MINOR RADIUS AS CALLED OUT ON THE PLAN BUT NOT LESS THAN 3m ALSO THE UNNECESSARY TAPER AND TANGENT WILL NOT BE BUILT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EROSION AND SEDIMENT CONTROLS  
STABILIZED CONSTRUCTION ENTRANCE**

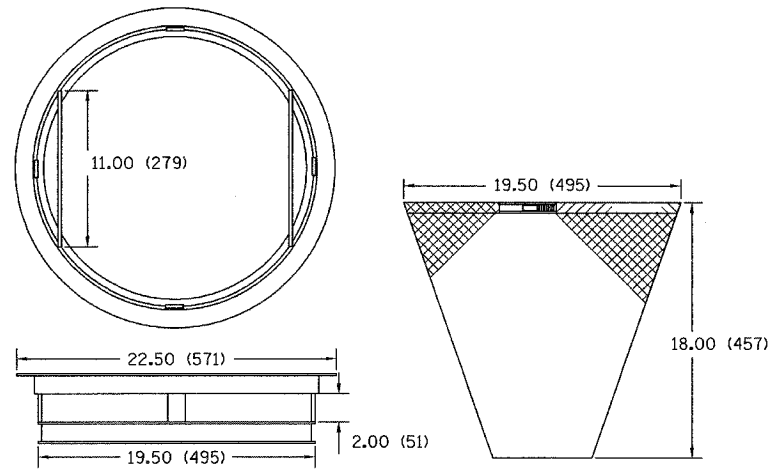
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DATE 07/05

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CHECKED BY



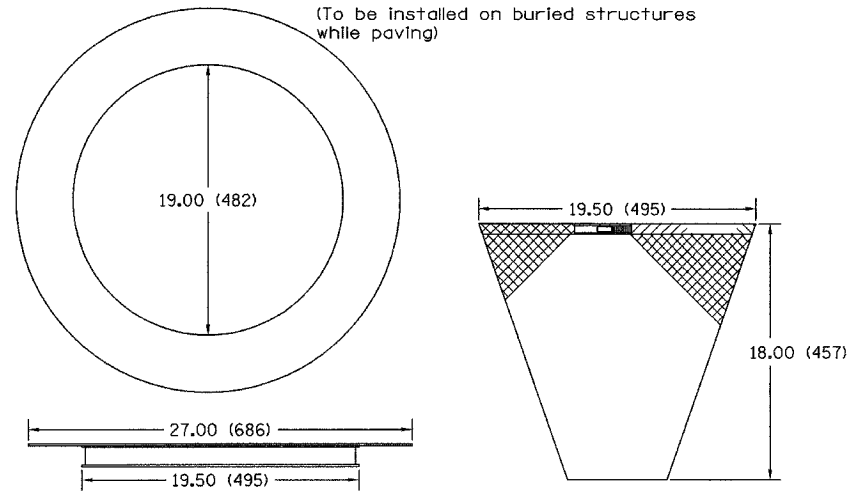


TYPE I INLET FILTER



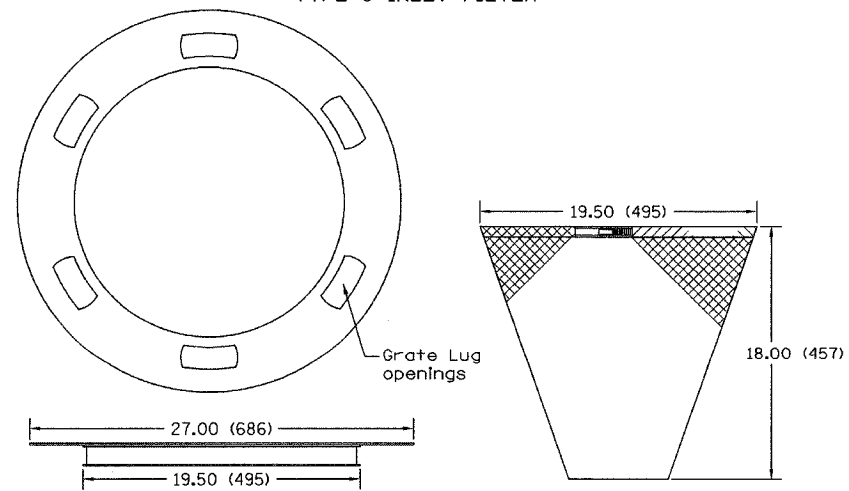
NOTES:  
 FRAME: Top ring shall be fabricated from 1 1/4"(31.7) x 1 1/4"(31.7) x 1/8"(3.1) angle. Base ring shall be fabricated from 1 1/2"(38.1) x 1/2"(12.7) x 1/8"(3.1) channel. Handles and suspension brackets shall be fabricated from 1 1/4"(31.7) x 1/4"(6.3) flat stock. Domestic steel conforming to ASTM-A36.  
 SEDIMENT BAGS: Shall be fabricated from 4 oz./sq. yd.(0.142 L/SQ M) non-woven polypropylene geotextile and shall be reinforced with polyester mesh. The bag shall be secured to the base ring with a stainless steel strap and lock.

CATCH BASIN & INLET FILTER  
 (To be installed on buried structures while paving)



NOTES:  
 FRAME: Flange shall be fabricated from 1/8"(3.1) flat stock. Base ring shall be fabricated from 1 1/2"(38.1) x 1/2"(12.7) x 1/8"(3.1) channel. Domestic steel conforming to ASTM-A36.  
 SEDIMENT BAG: Shall be fabricated from 4 oz./sq. yd.(0.142 L/SQ M) non-woven polypropylene geotextile and shall be reinforced with polyester mesh. The bag shall be secured to the base ring with a stainless steel strap and lock.

TYPE 8 INLET FILTER

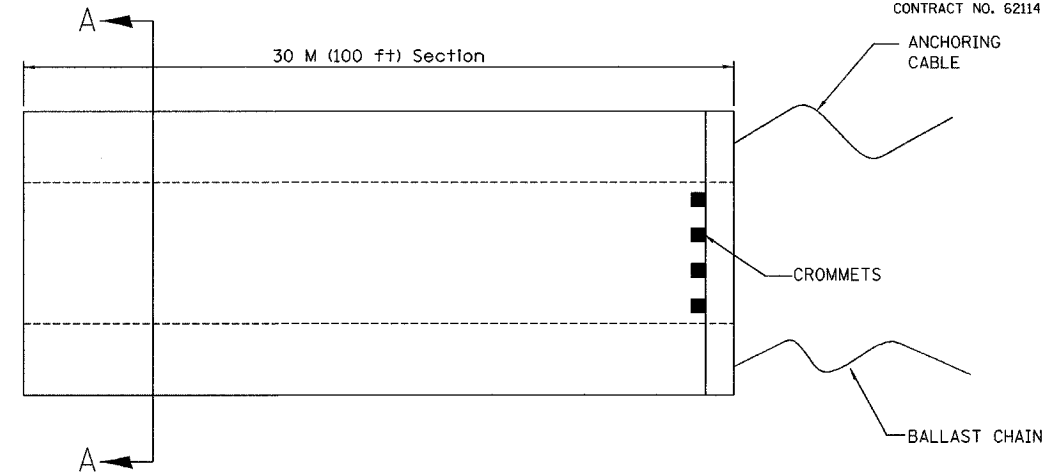


NOTES:  
 FRAME: Flange shall be fabricated from 1/8"(3.1) flat stock. Base ring shall be fabricated from 1 1/2"(38.1) x 1/2"(12.7) x 1/8"(3.1) channel. Domestic steel conforming to ASTM-A36.  
 SEDIMENT BAG: Shall be fabricated from 4 oz./sq. yd.(0.142 L/SQ M) non-woven polypropylene geotextile and shall be reinforced with polyester mesh. The bag shall be secured to the base ring with a stainless steel strap and lock.

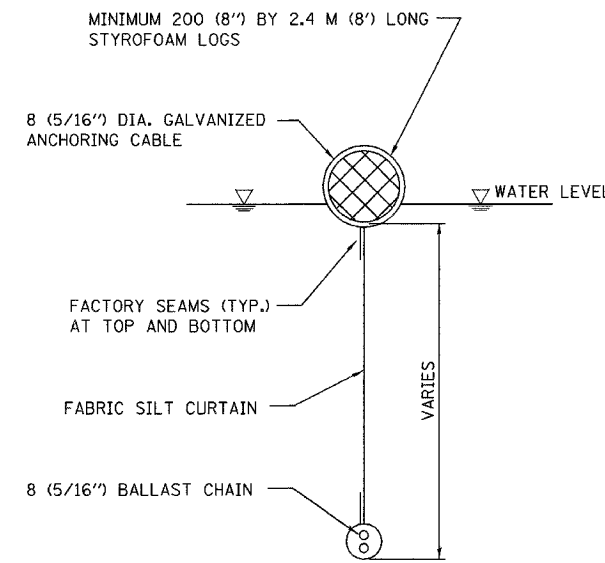
INLET FILTERS

NOTE: ALL UNITS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	241
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ELEVATION  
 NOT TO SCALE



SECTION A-A  
 NOT TO SCALE

NOTES:

- SILT CURTAIN SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE.
- SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON CURRENT VELOCITIES
- FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 8 (5/16") DIAMETER POLYPROPYLENE ROPE.
- DESIGN OF CURTAIN AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE OR TWO VERTICAL SECTIONS AS REQUIRED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED. THE CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

APPLICATION: SILT CURTAIN TO BE USED TO CONTROL SILT AND DEBRIS WHEN WORKING IN WATERWAYS.

SEDIMENT CONTROL,  
 SILT CURTAIN DETAIL

REVISIONS	
NAME	DATE

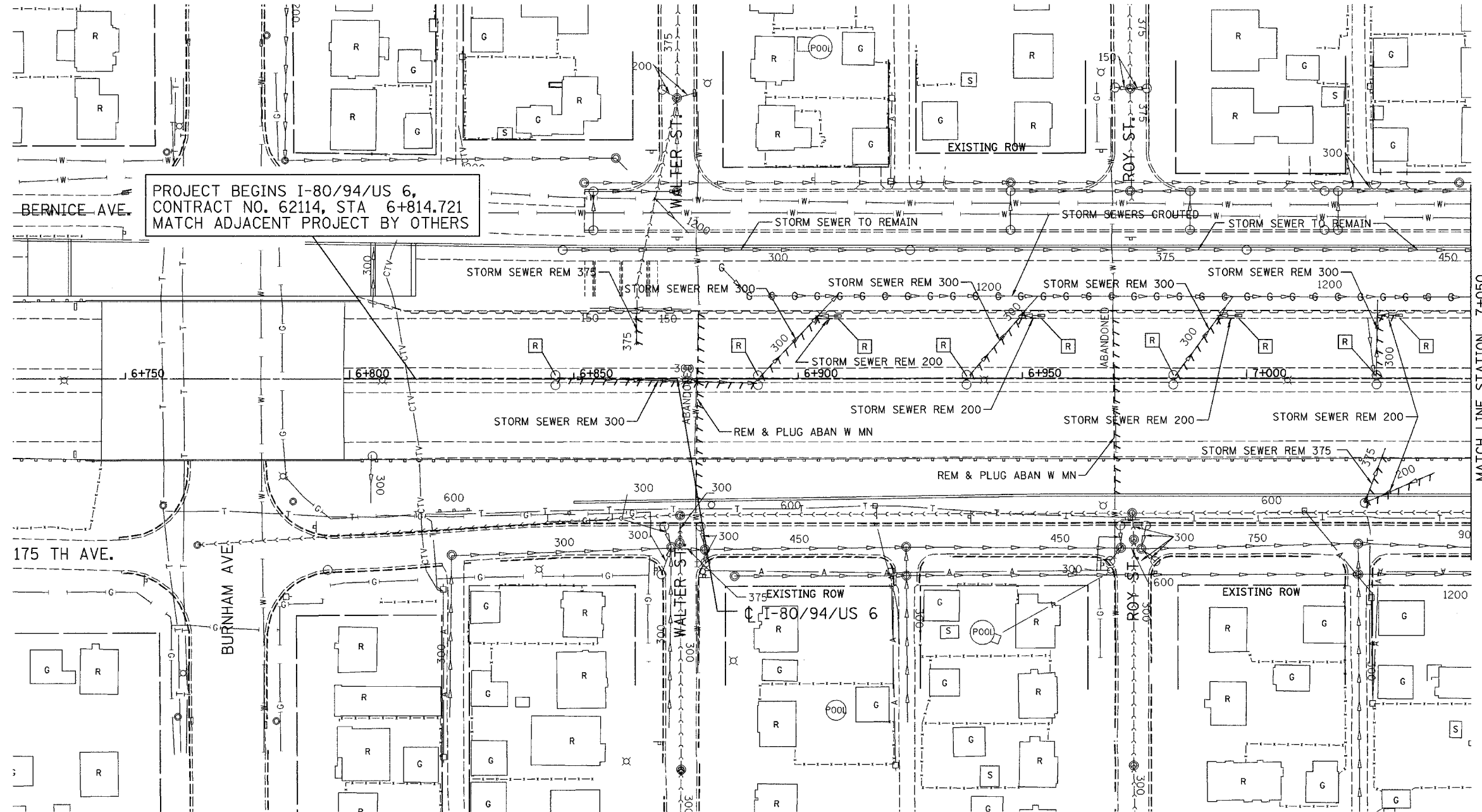
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EROSION CONTROL DETAILS**

SCALE NONE  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY TAE



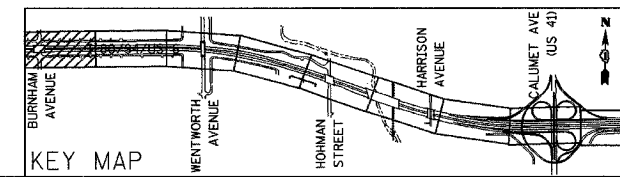
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	242
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PROJECT BEGINS I-80/94/US 6,  
CONTRACT NO. 62114, STA 6+814.721  
MATCH ADJACENT PROJECT BY OTHERS

MATCH LINE STATION 7+050



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

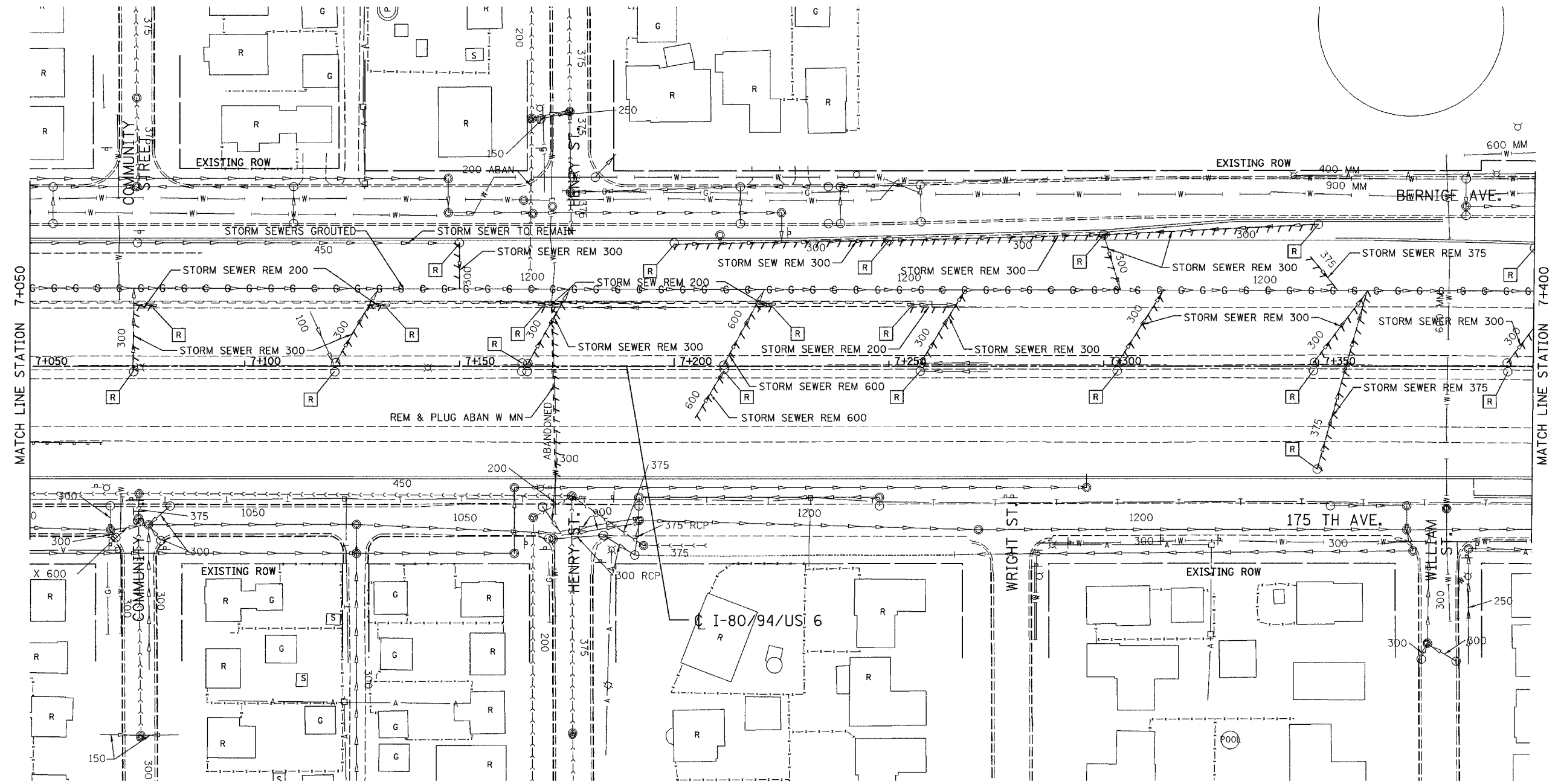
STA. 6 + 814.721 TO STA. 7 + 050  
SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

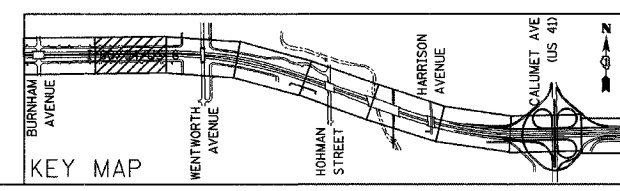
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 243
STA. 7+050		TO STA. 7+400		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 7+050

MATCH LINE STATION 7+400



REVISIONS	
NAME	DATE

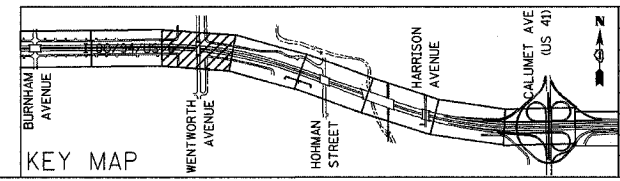
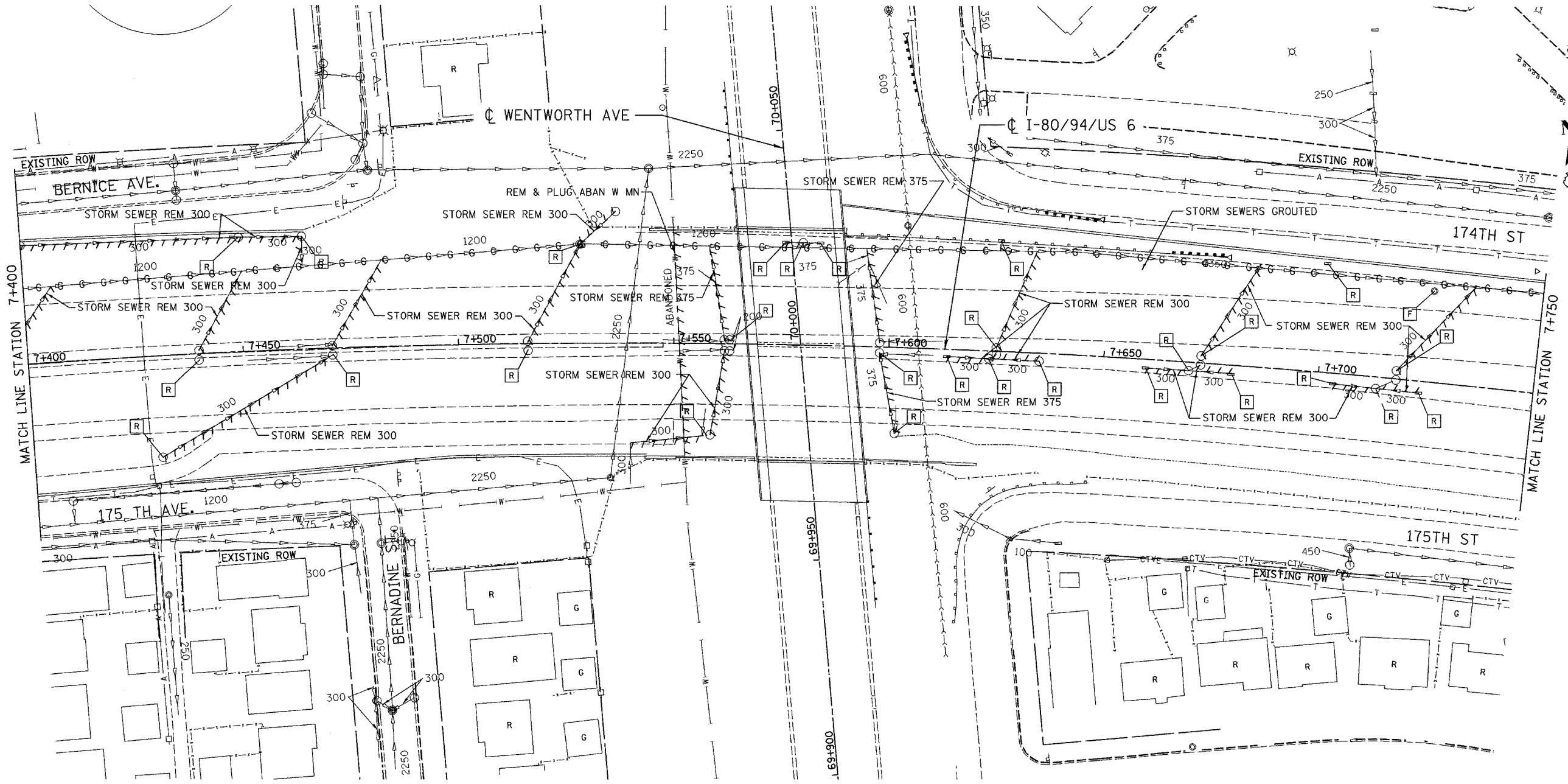
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

STA. 7+050 TO STA. 7+400  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	244
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



REVISIONS	
NAME	DATE

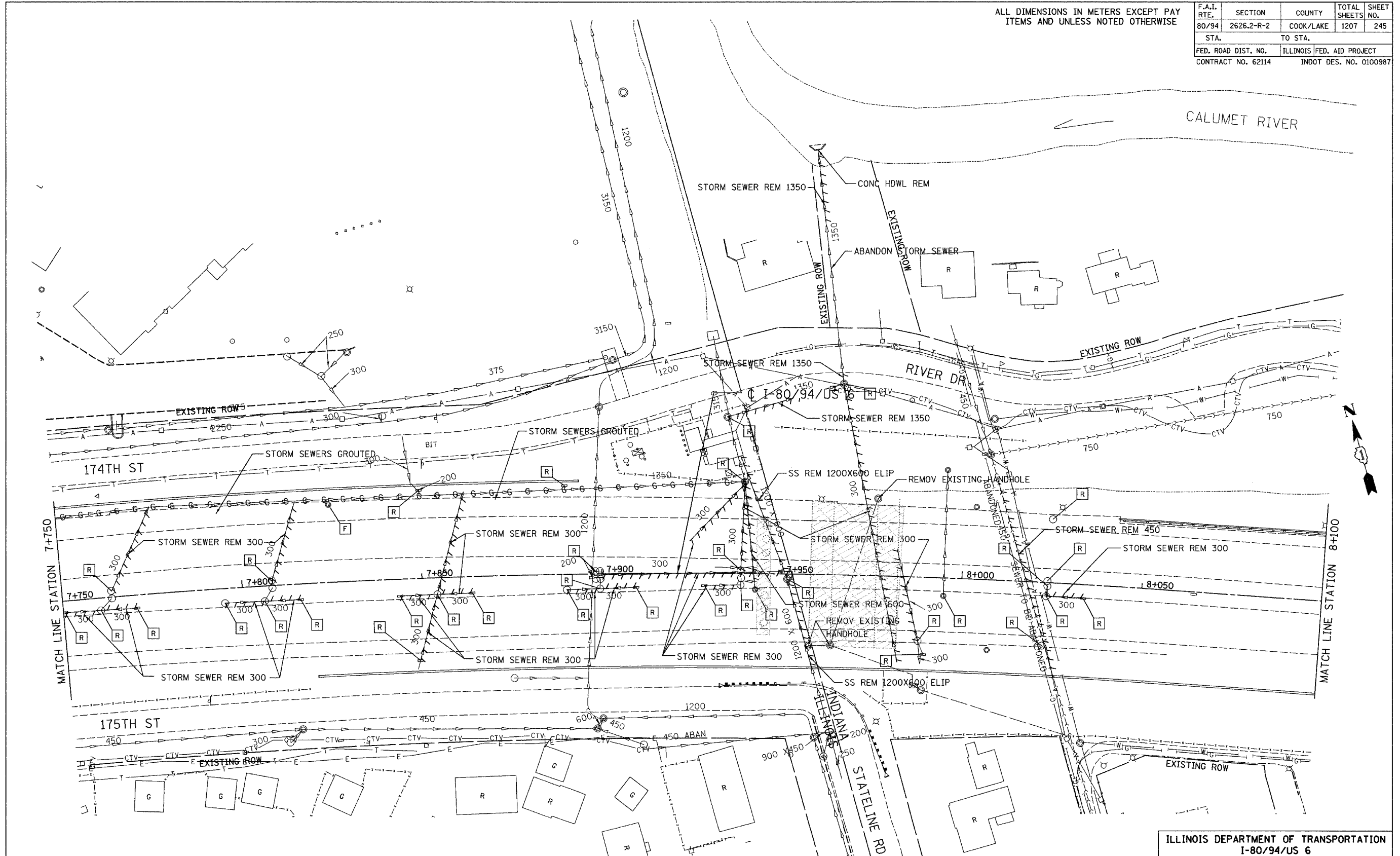
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

**STA. 7+400 TO STA. 7+750**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

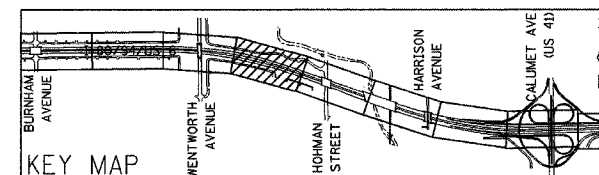
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	245
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDGT DES. NO. 0100987			



LEGEND

☒ TRAFFIC DETECTION LOOPS TO BE ABANDONED



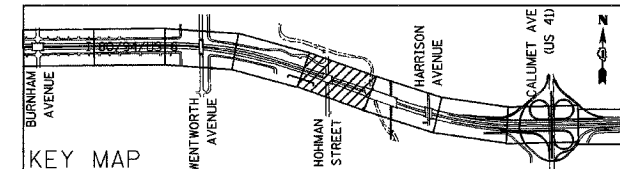
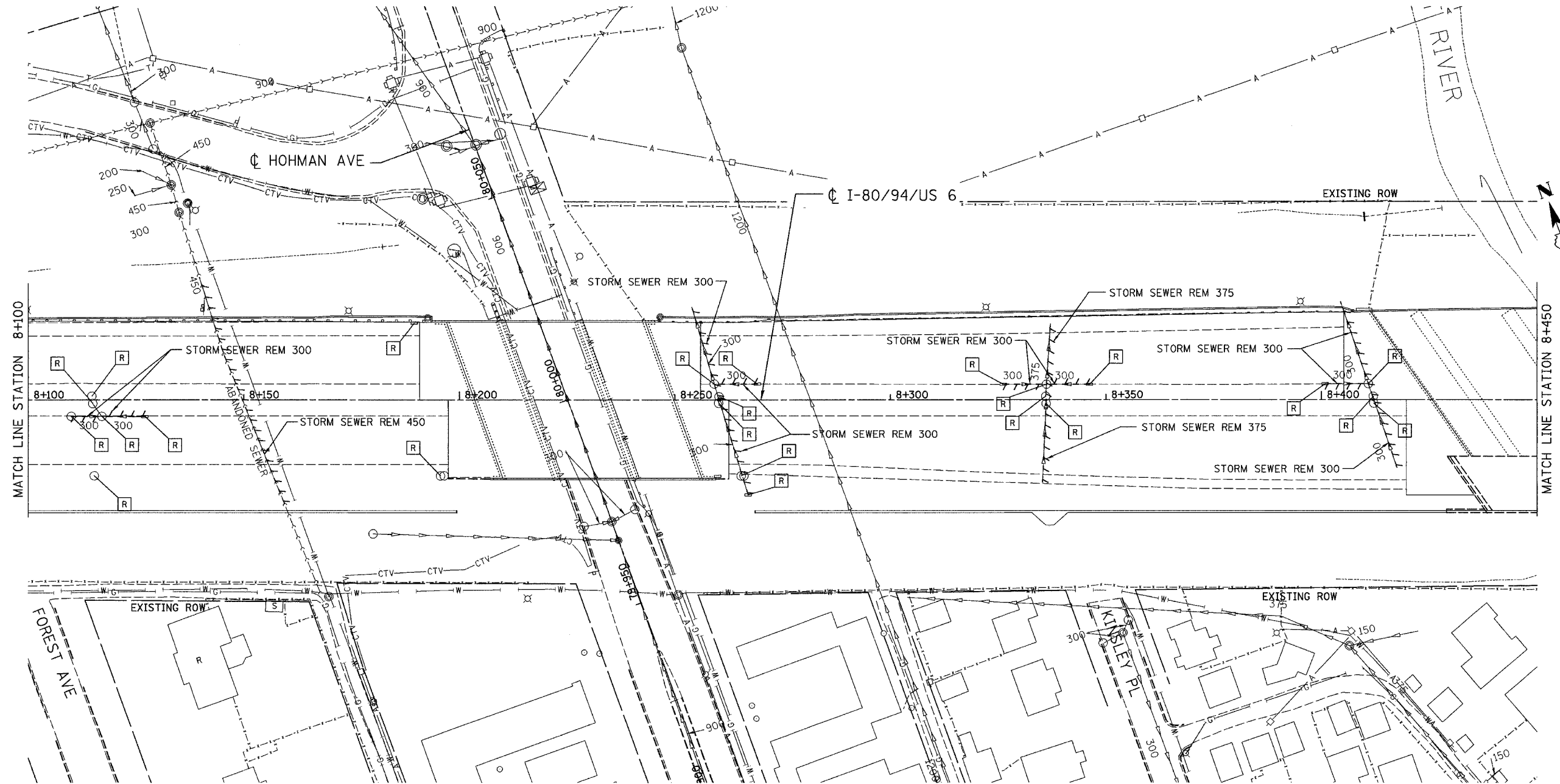
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**  
 STA. 7+750 TO STA. 8+100  
 SCALE 1:500 DRAWN BY ACE/CAJ  
 DATE 07/05 CHECKED BY TAE  
**AMERICAN**  
 CONSULTING ENGINEERS

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ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	246
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

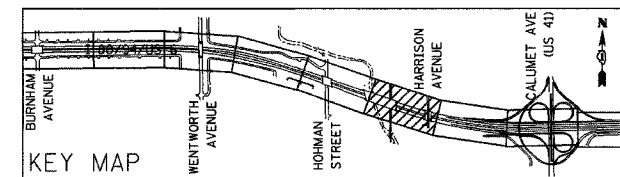
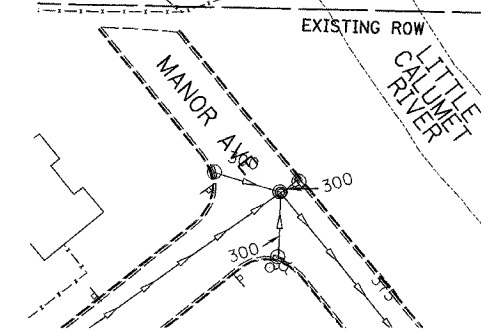
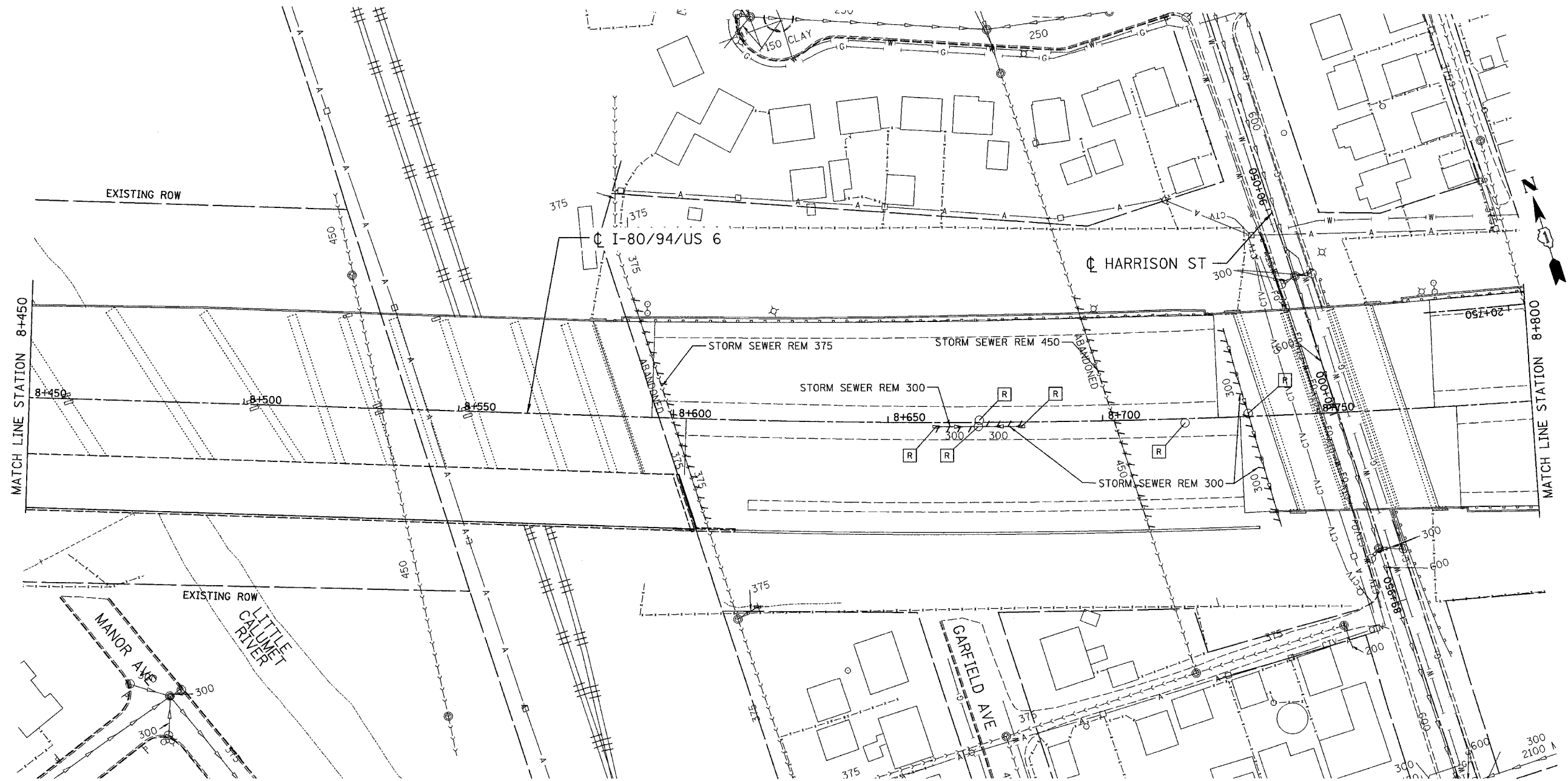
**STA. 8+100 TO STA. 8+450**  
SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	247
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



REVISIONS	
NAME	DATE

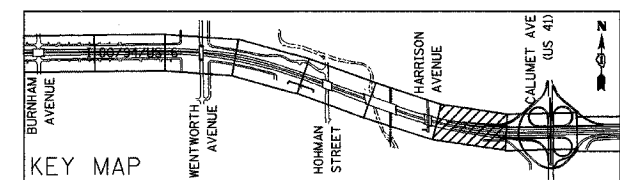
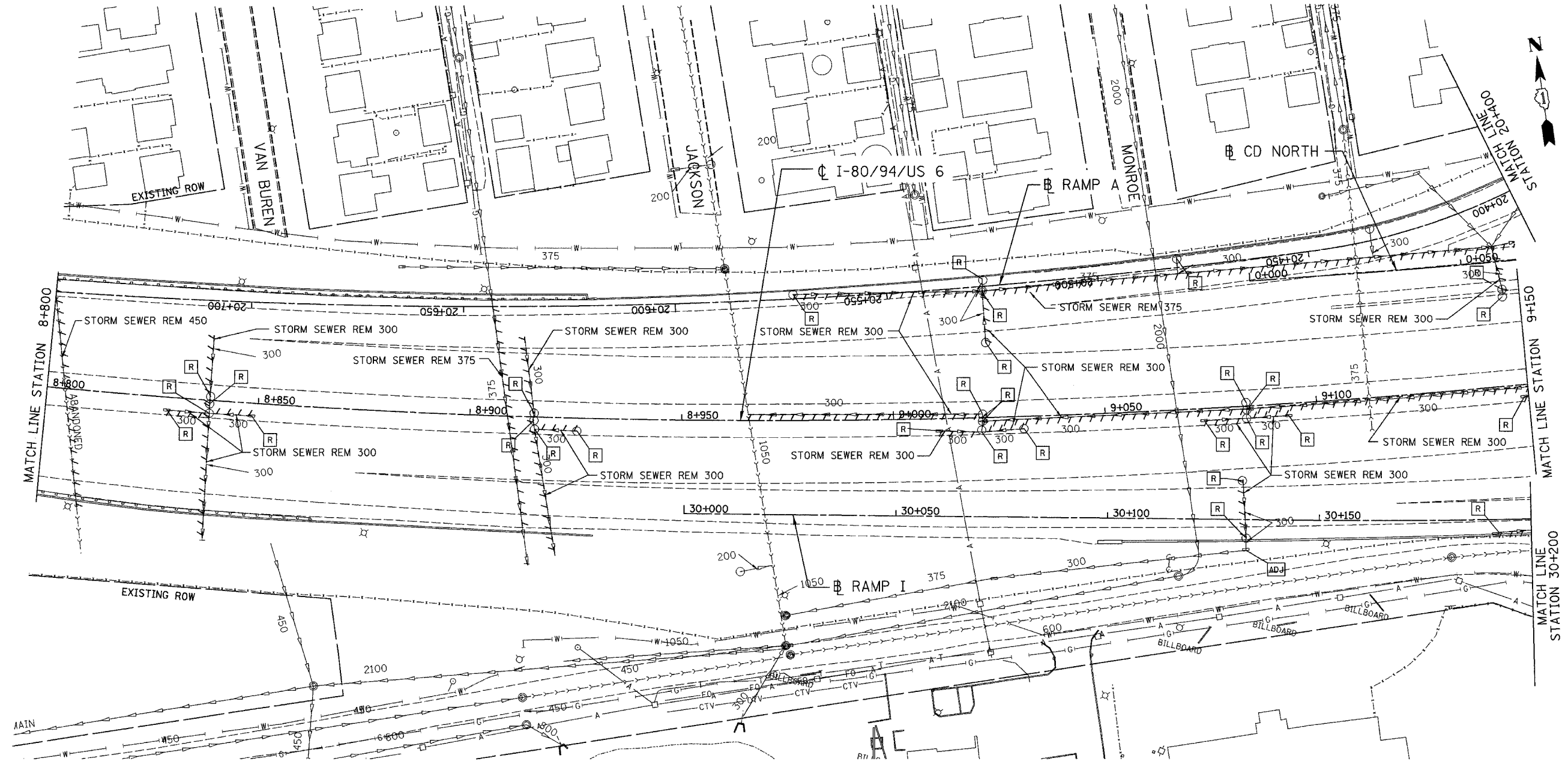
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

**STA. 8+450 TO STA. 8+800**  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	248
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



REVISIONS	
NAME	DATE

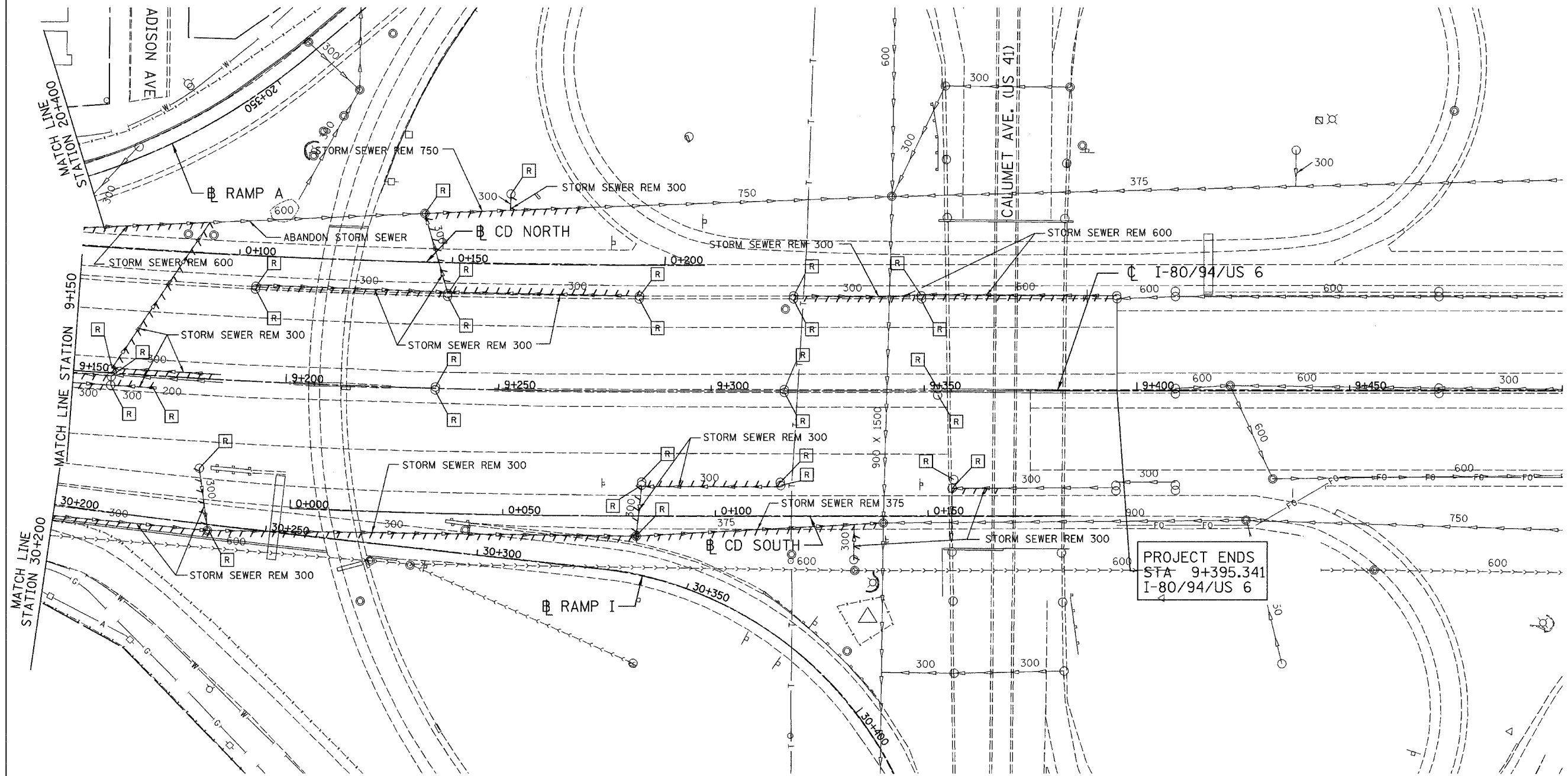
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**  
 STA. 8+800 TO STA. 9+150  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS



ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

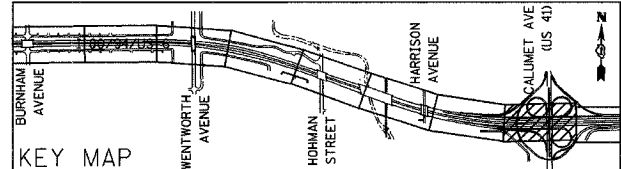
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	249
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



PROJECT ENDS  
STA 9+395.341  
I-80/94/US 6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING DRAINAGE & UTILITY PLAN**

STA. 9 + 150 TO STA. 9 + 500  
SCALE 1:500  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

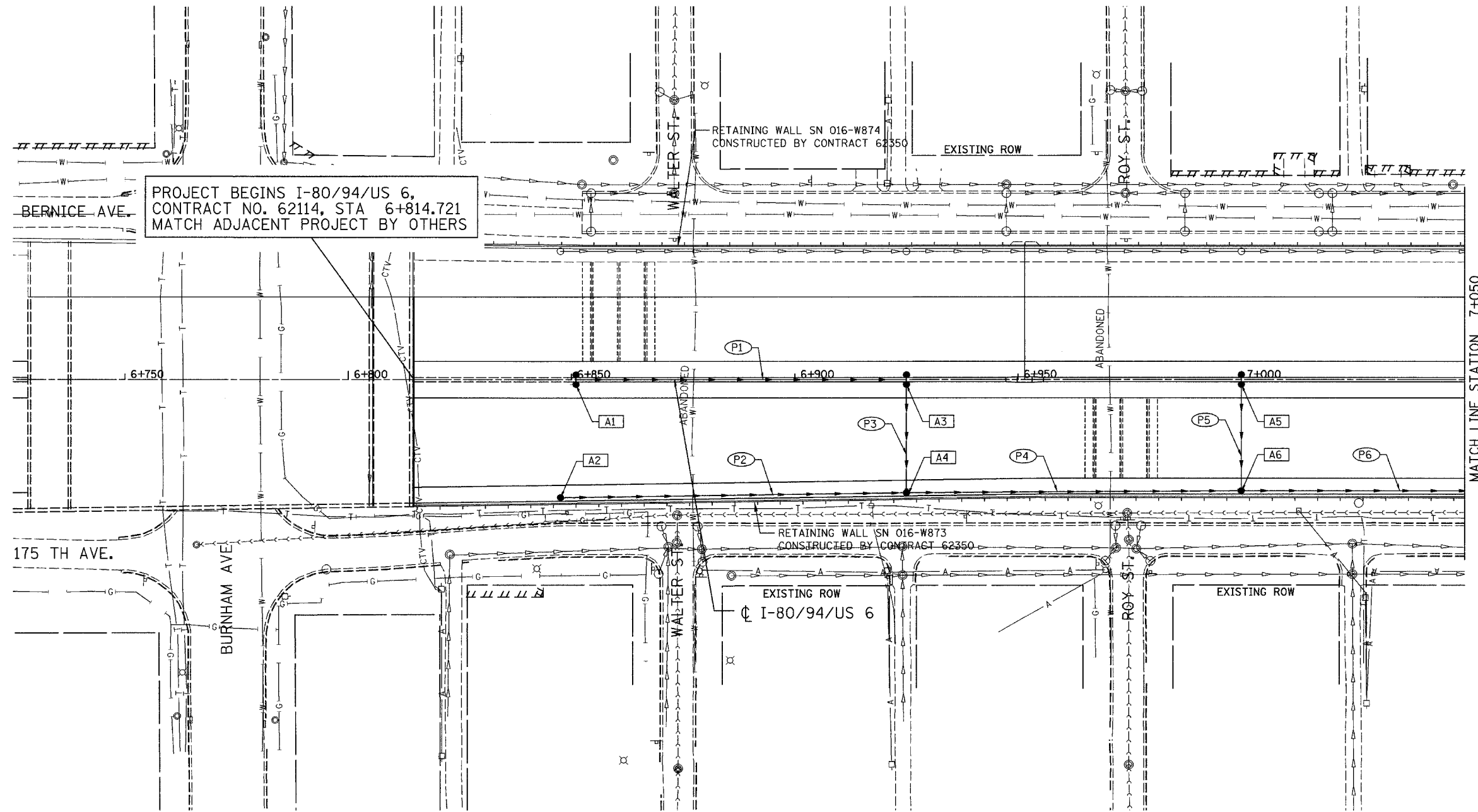


REVISIONS	
NAME	DATE

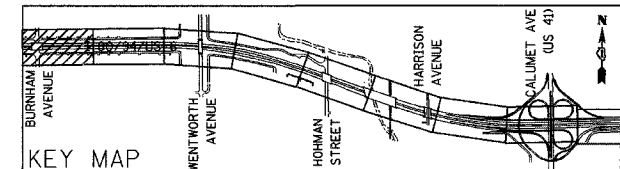
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ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	250
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



MATCH LINE STATION 7+050



REVISIONS	
NAME	DATE

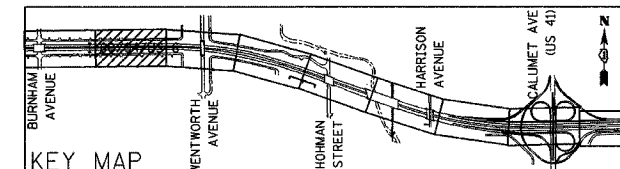
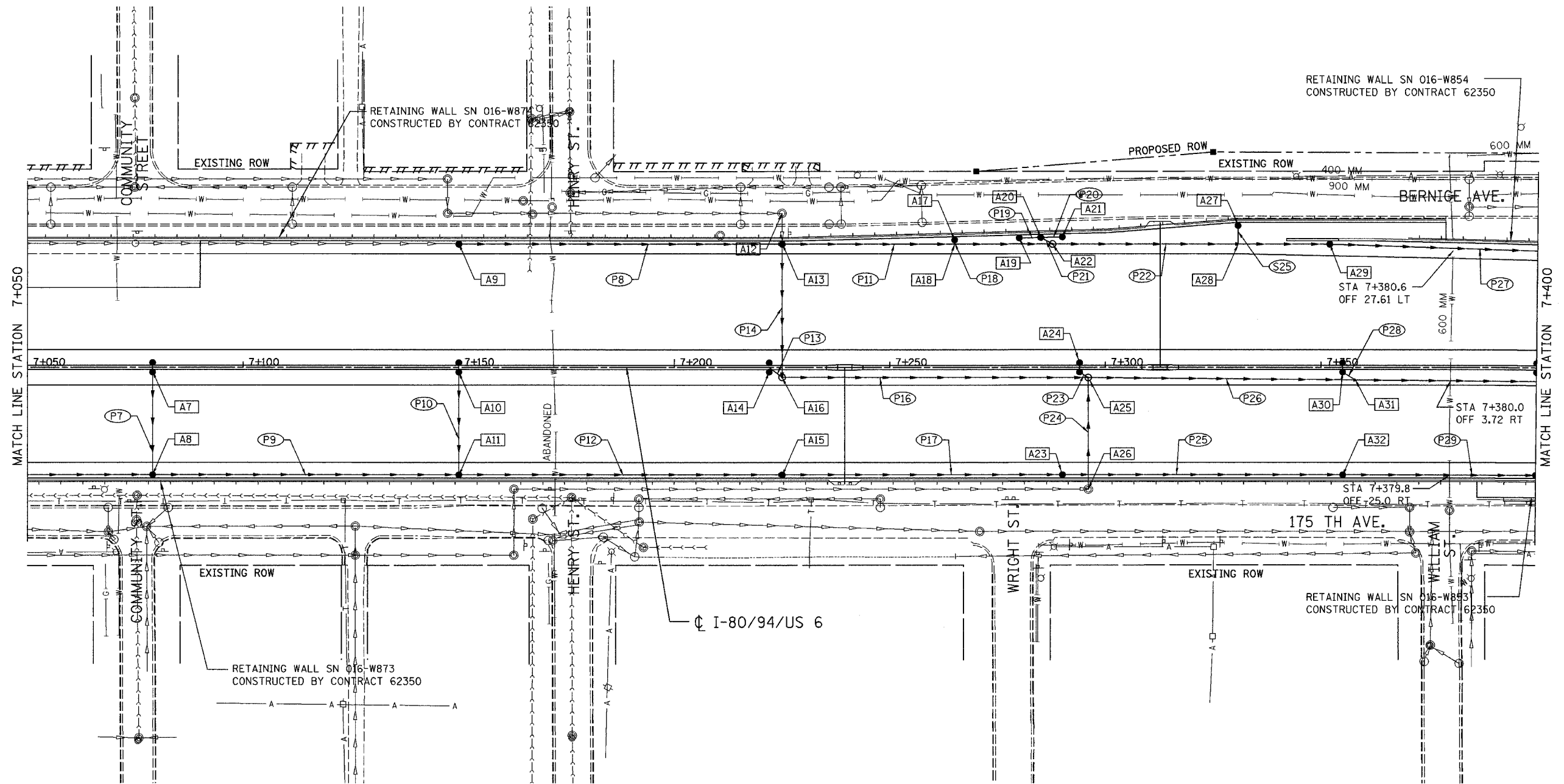
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

STA. 6 + 814.721 TO STA. 7 + 050  
 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	251
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

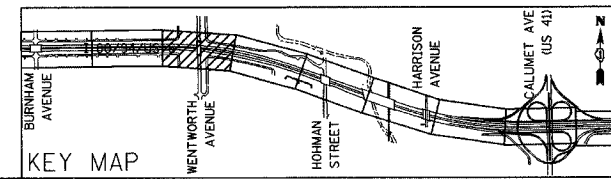
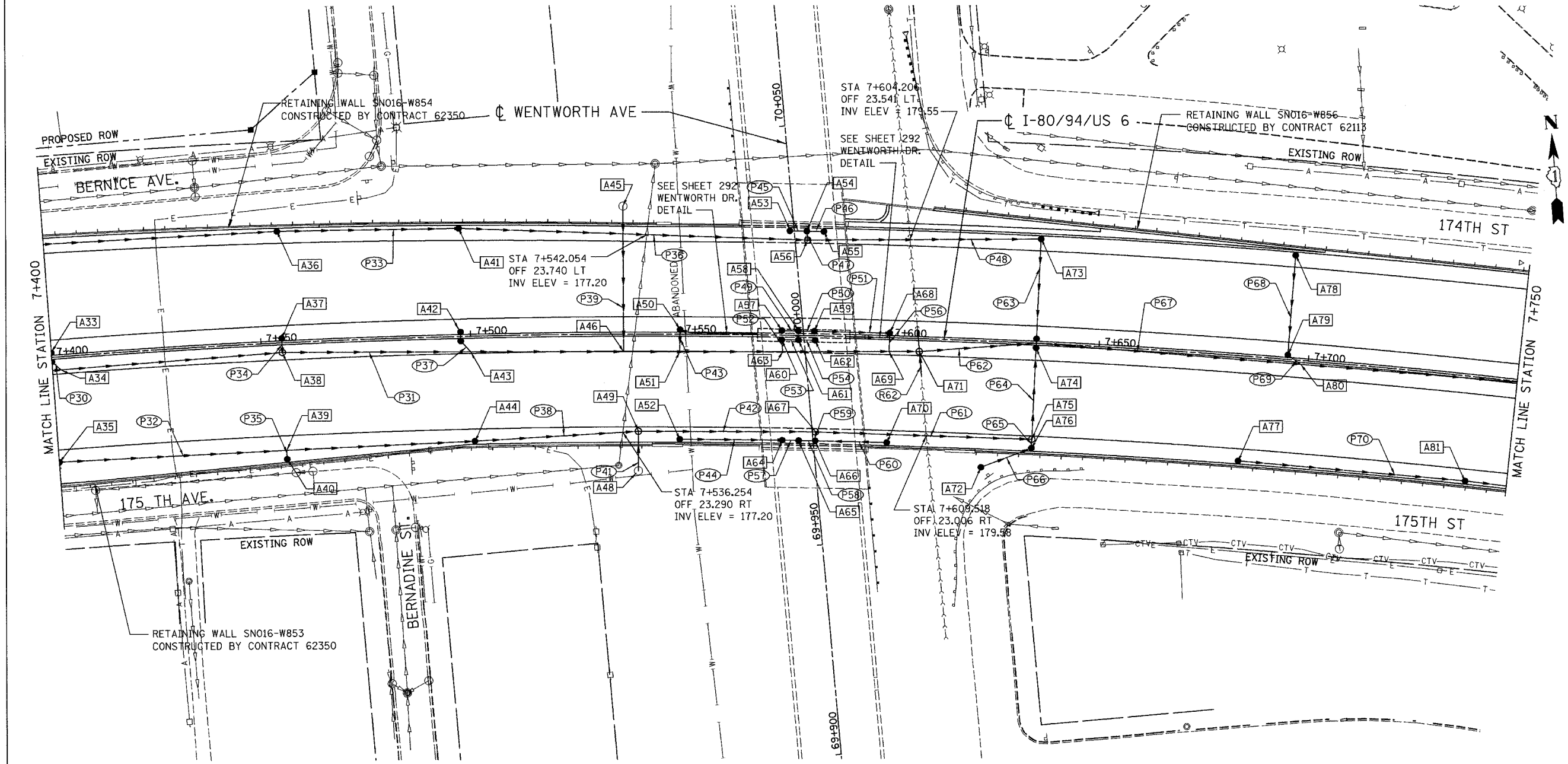
**STA. 7+050 TO STA. 7+400**

SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	252
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

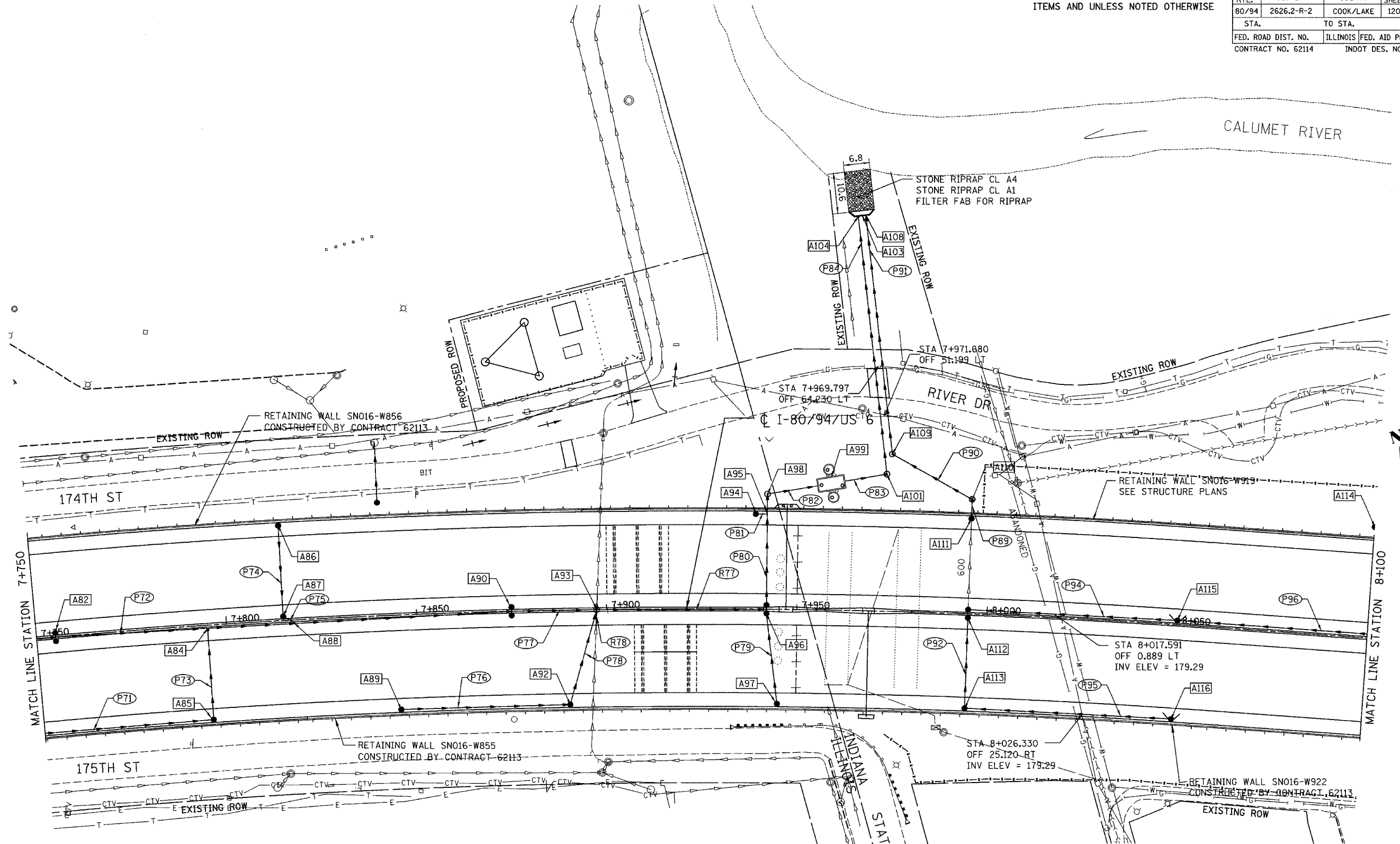
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

**STA. 7+400 TO STA. 7+750**  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

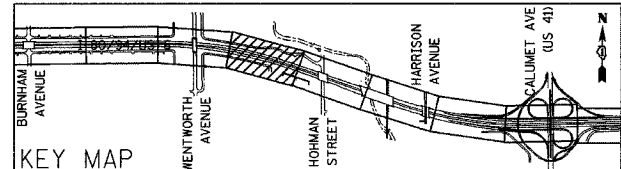
ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	253
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 7+750

MATCH LINE STATION 8+100



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

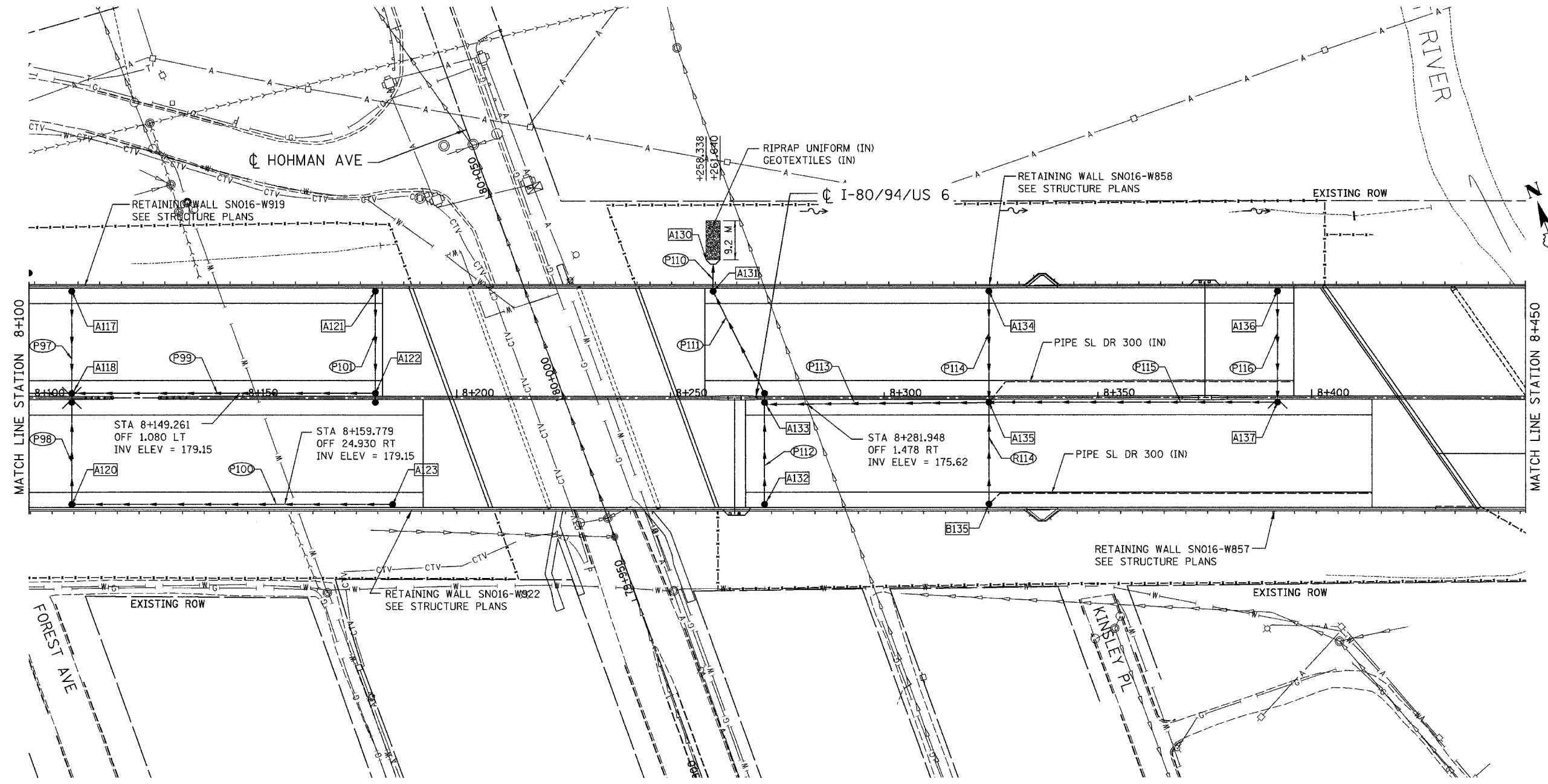
STA. 7+750 TO STA. 8+100  
 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

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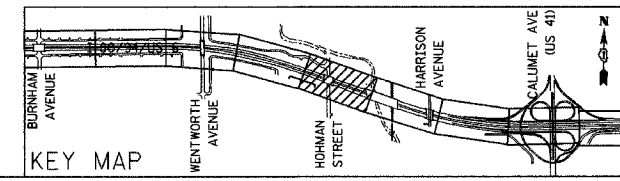
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	254
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 8+100

MATCH LINE STATION 8+450



REVISIONS	
NAME	DATE

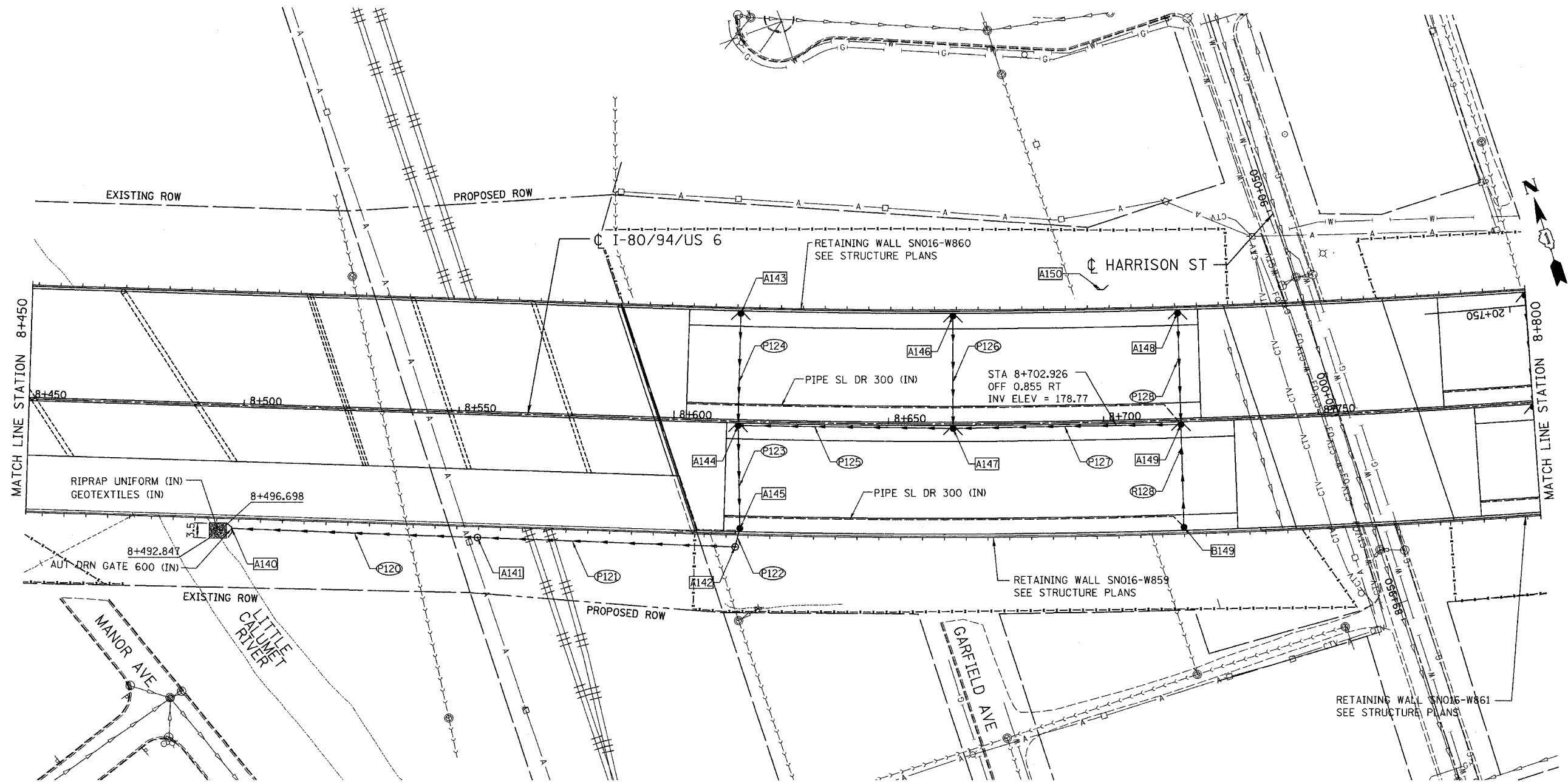
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

**STA. 8+100 TO STA. 8+450**  
 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

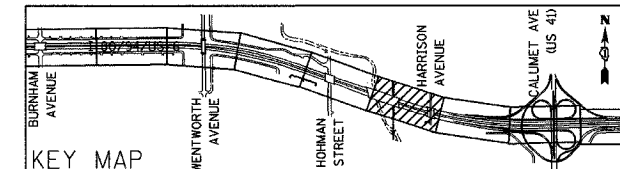
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	255
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 8+450

MATCH LINE STATION 8+800

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**  
 STA. 8+450 TO STA. 8+800  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY TAE

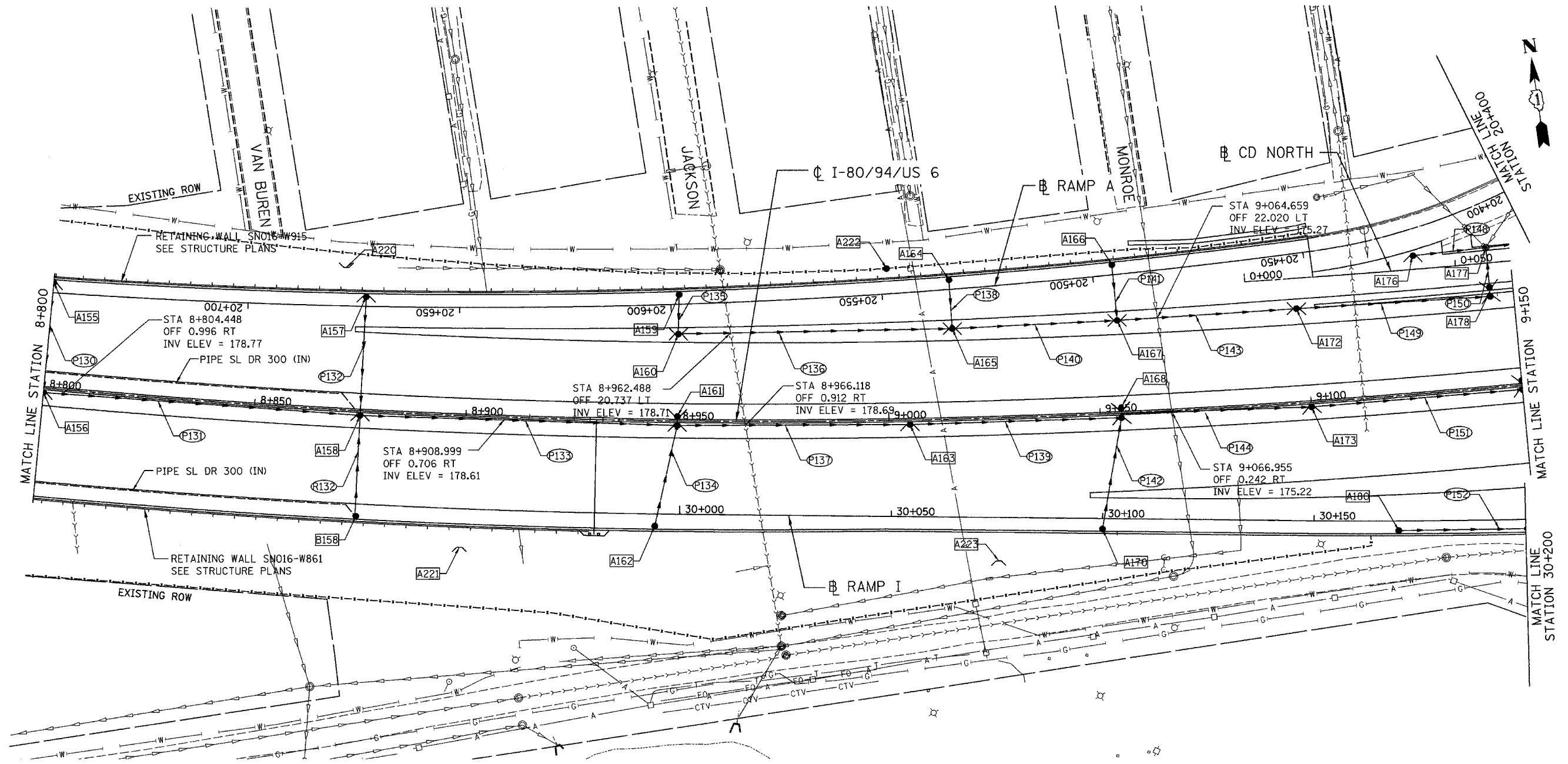


REVISIONS	
NAME	DATE



ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	256
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

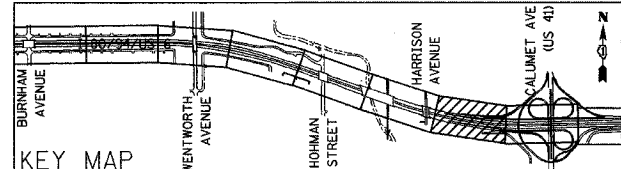


ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

STA. 8+800 TO STA. 9+150  
 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

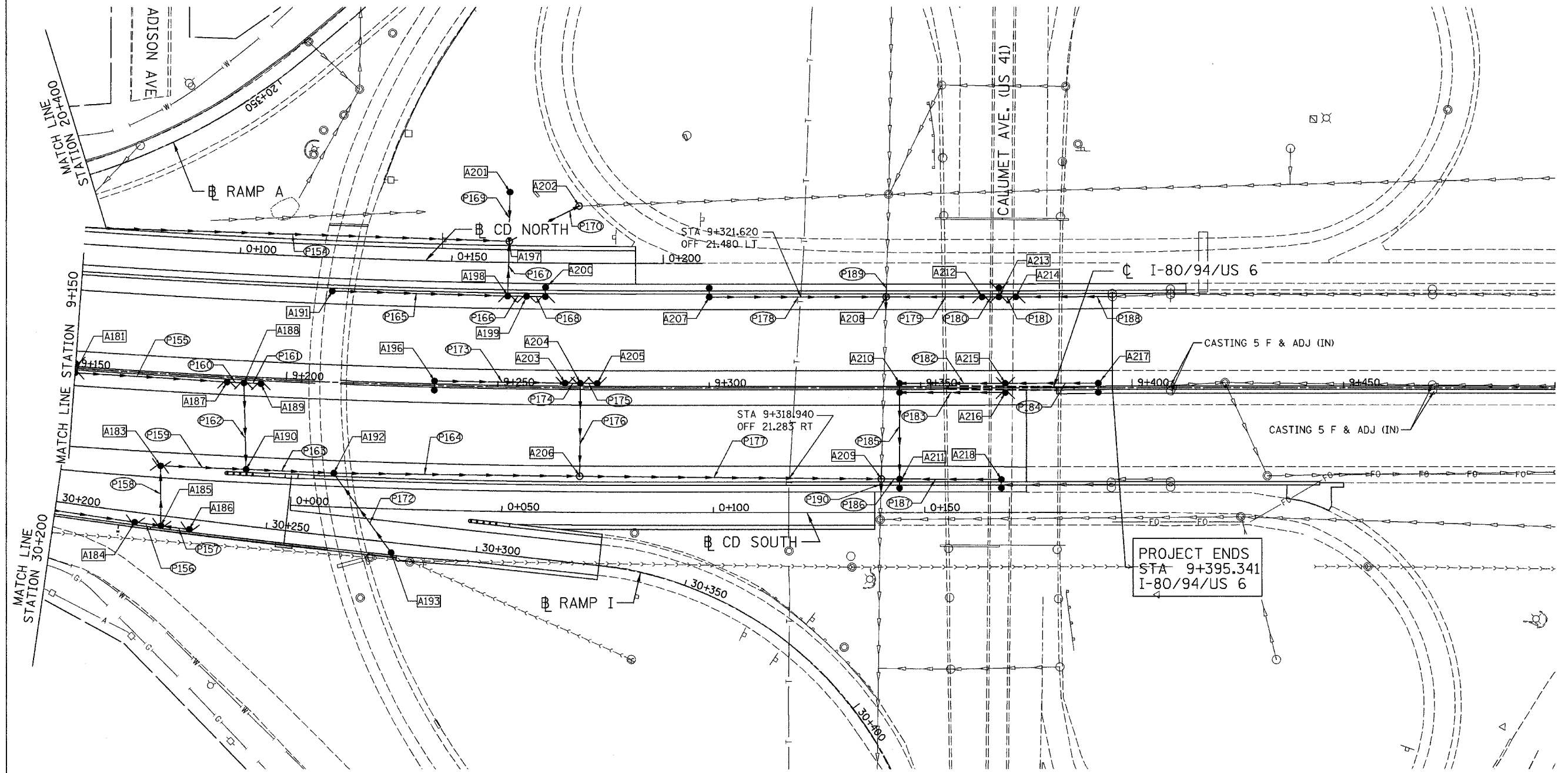


REVISIONS	
NAME	DATE

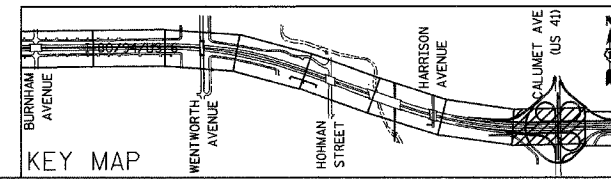


ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	257
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: PIPE P163 SHALL BE INSTALLED TO ALLOW FOR SUBSEQUENT CONSTRUCTION OF SIGN FOUNDATION.



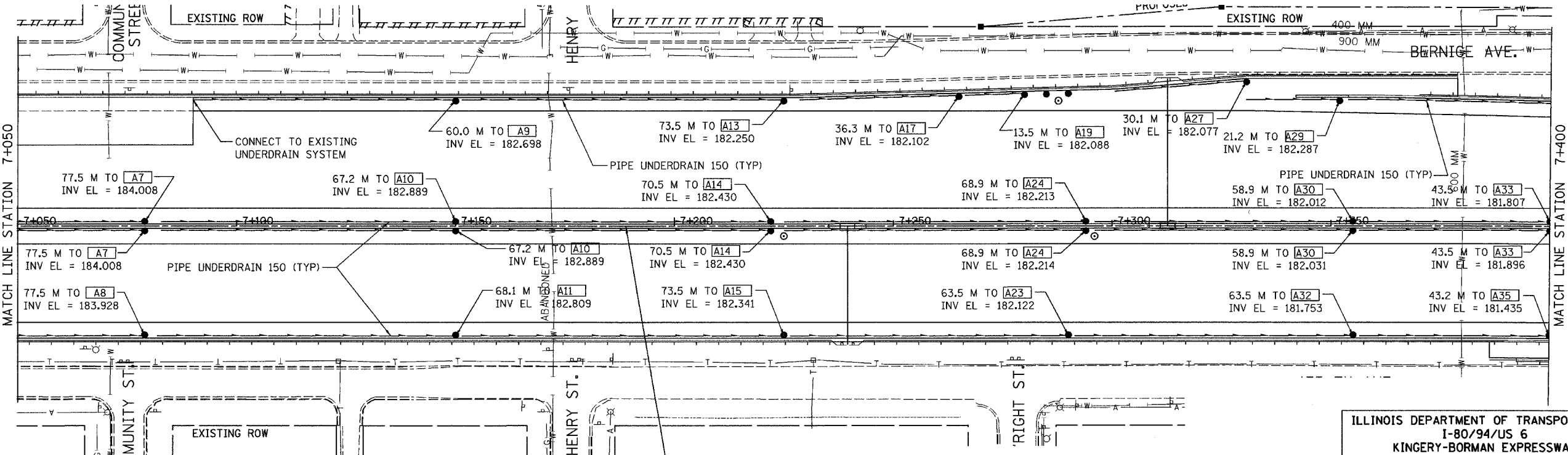
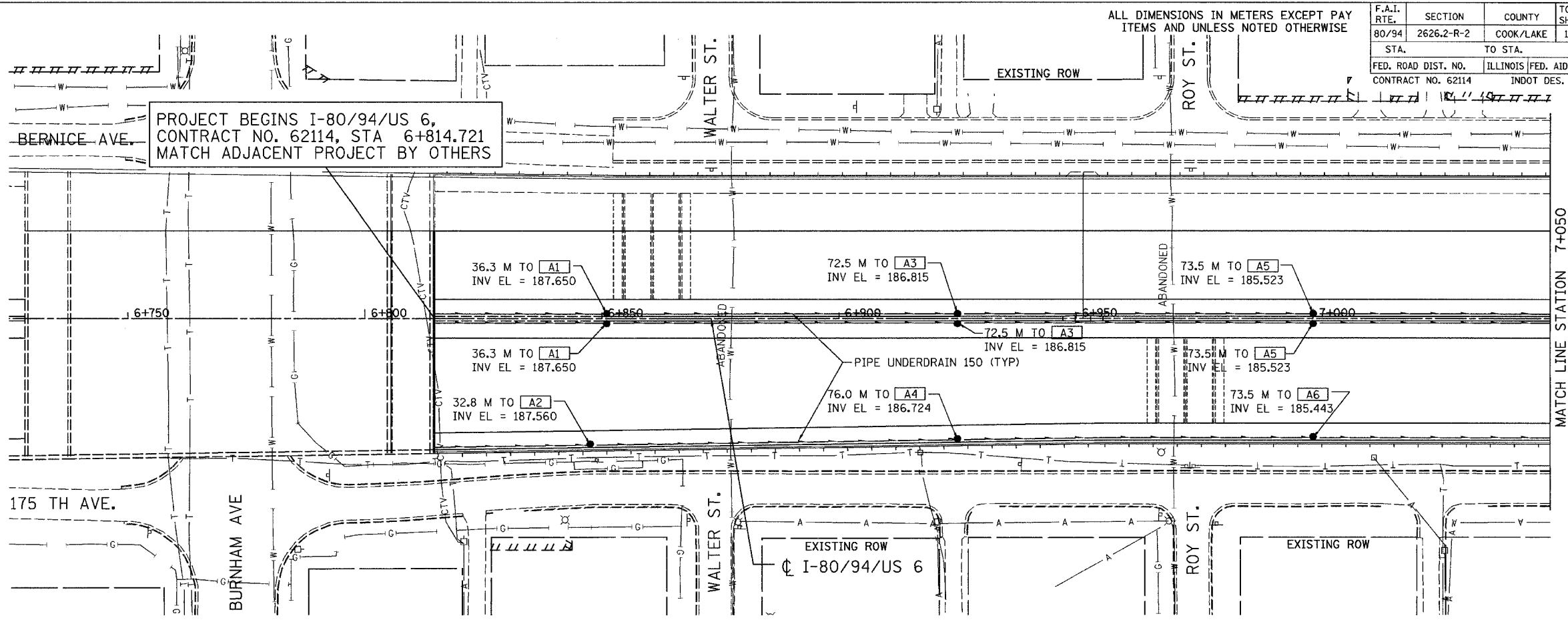
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED DRAINAGE PLAN**

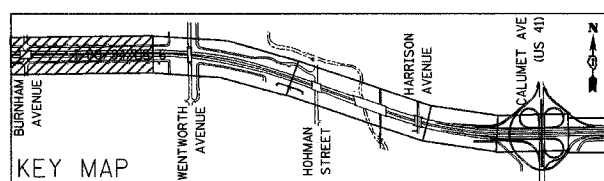
**STA. 9+150 TO STA. 9+500**  
 SCALE 1:500  
 DATE 07/05

DRAWN BY ACE/CAD  
 CHECKED BY TAE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	258
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- NOTES:
- REFER TO THE "PIPE UNDERDRAINS AND SHOULDER" DETAIL FOR UNDERDRAIN SYSTEMS INSTALLED IN ILLINOIS.
  - REFER TO THE INDOT STANDARD SHEETS "718-UNDR-01, 02, 06 & 07" FOR UNDERDRAIN SYSTEMS INSTALLED IN INDIANA.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN PLAN**

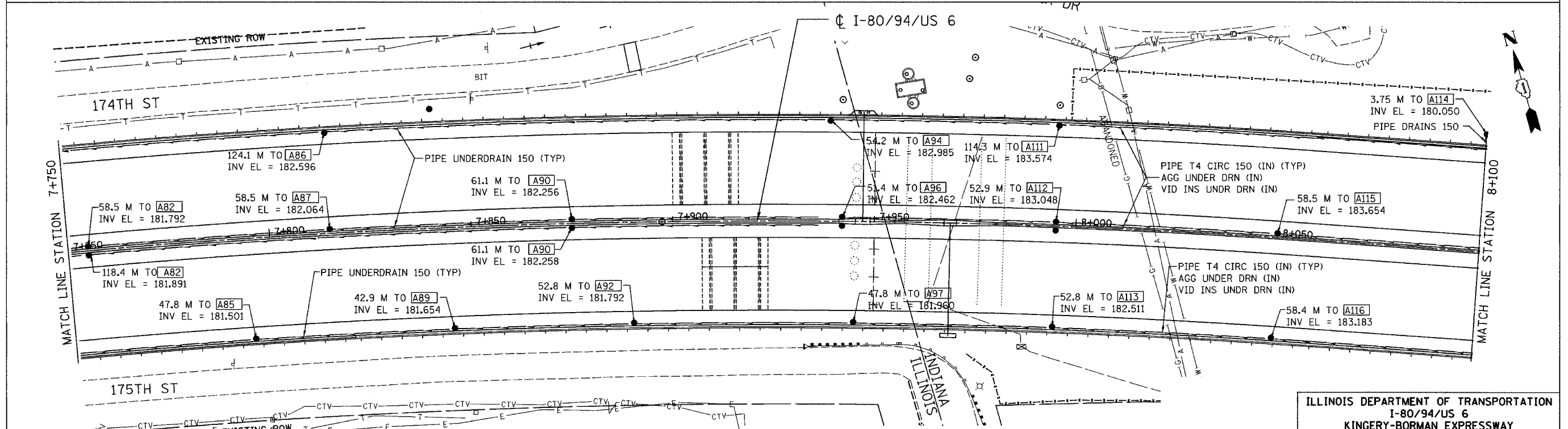
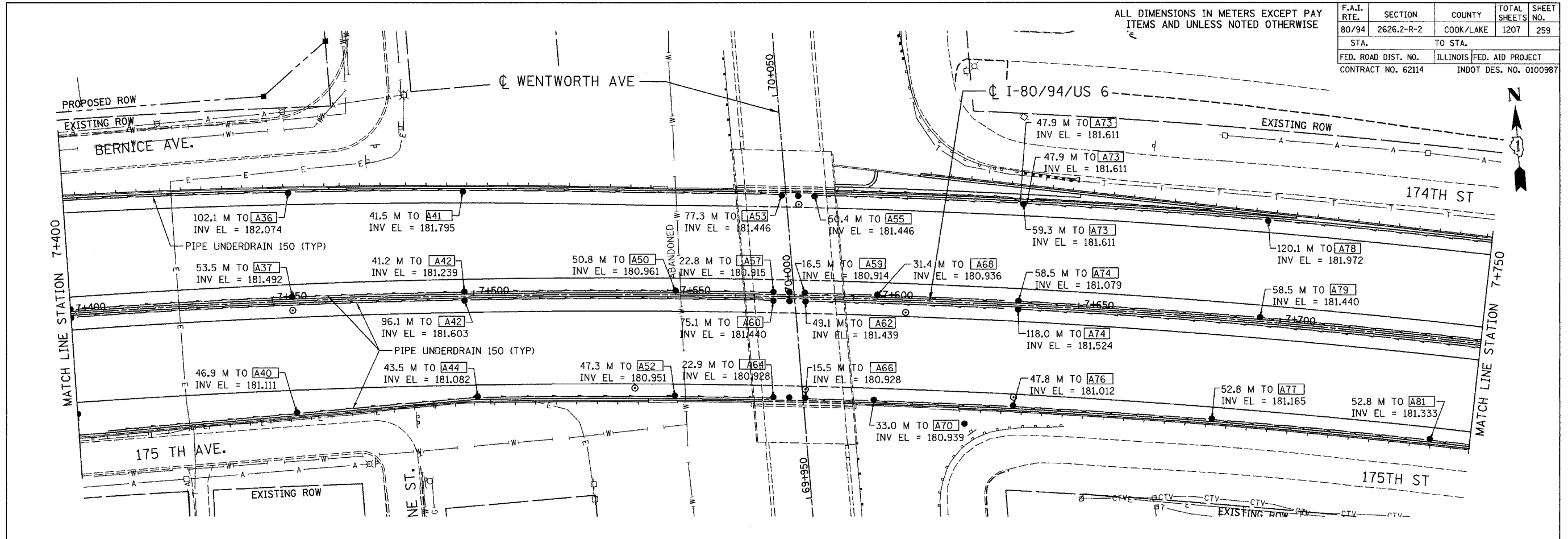
STA. 6 + 814.721 TO STA. 7 + 400

SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

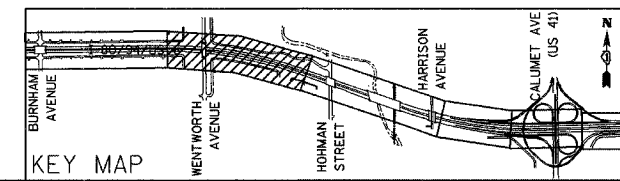
**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	259
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- NOTES:
- REFER TO THE "PIPE UNDERDRAINS AND SHOULDER" DETAIL FOR UNDERDRAIN SYSTEMS INSTALLED IN ILLINOIS.
  - REFER TO THE INDOT STANDARD SHEETS "718-UNDR-01, 02, 06 & 07" FOR UNDERDRAIN SYSTEMS INSTALLED IN INDIANA.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN PLAN**

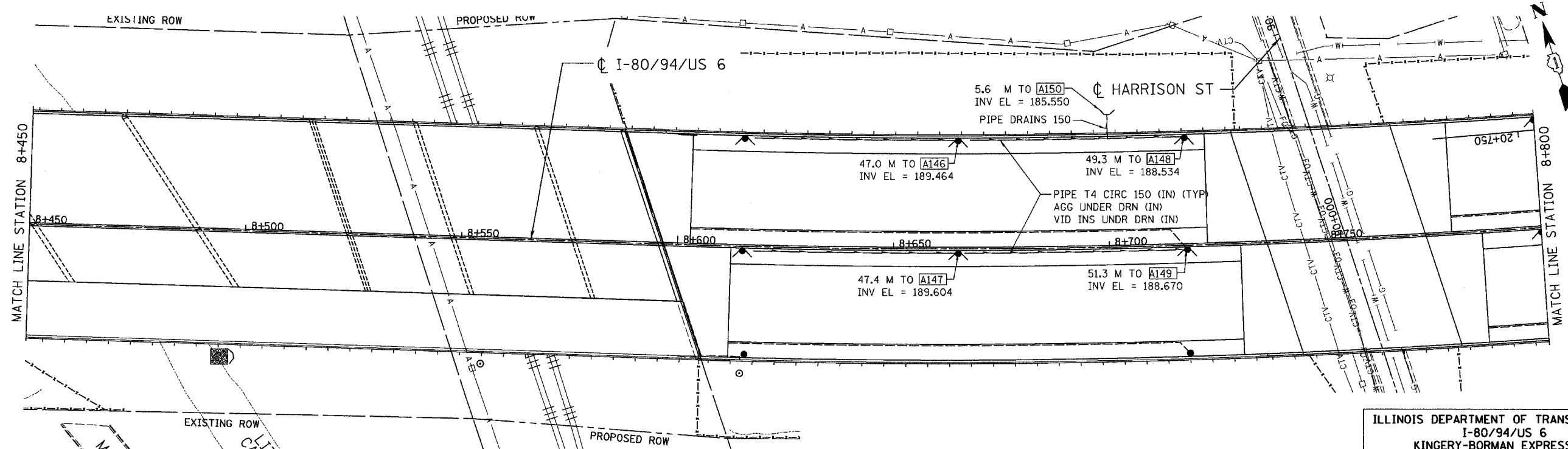
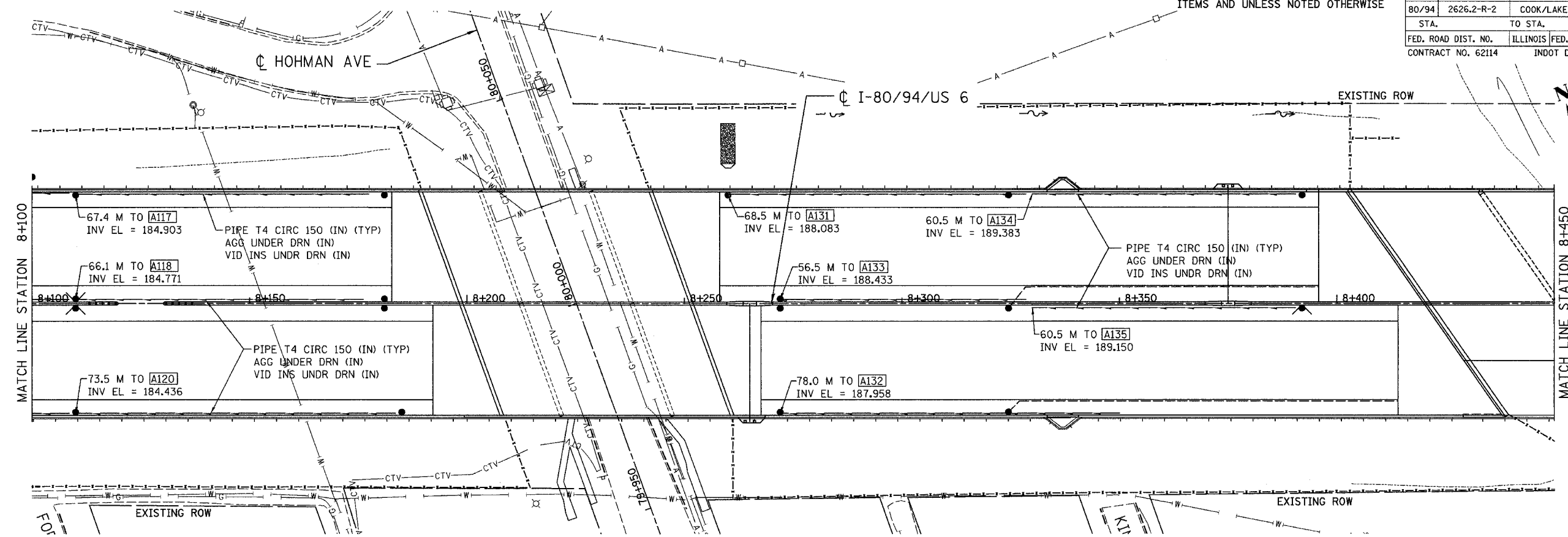
STA. 7+400 TO STA. 8+100

SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

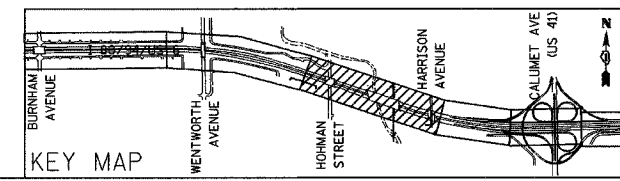
**AMERICAN**  
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	260
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- NOTES:
1. REFER TO THE "PIPE UNDERDRAINS AND SHOULDER" DETAIL FOR UNDERDRAIN SYSTEMS INSTALLED IN ILLINOIS.
  2. REFER TO THE INDOT STANDARD SHEETS "718-UNDR-01, 02, 06 & 07" FOR UNDERDRAIN SYSTEMS INSTALLED IN INDIANA.

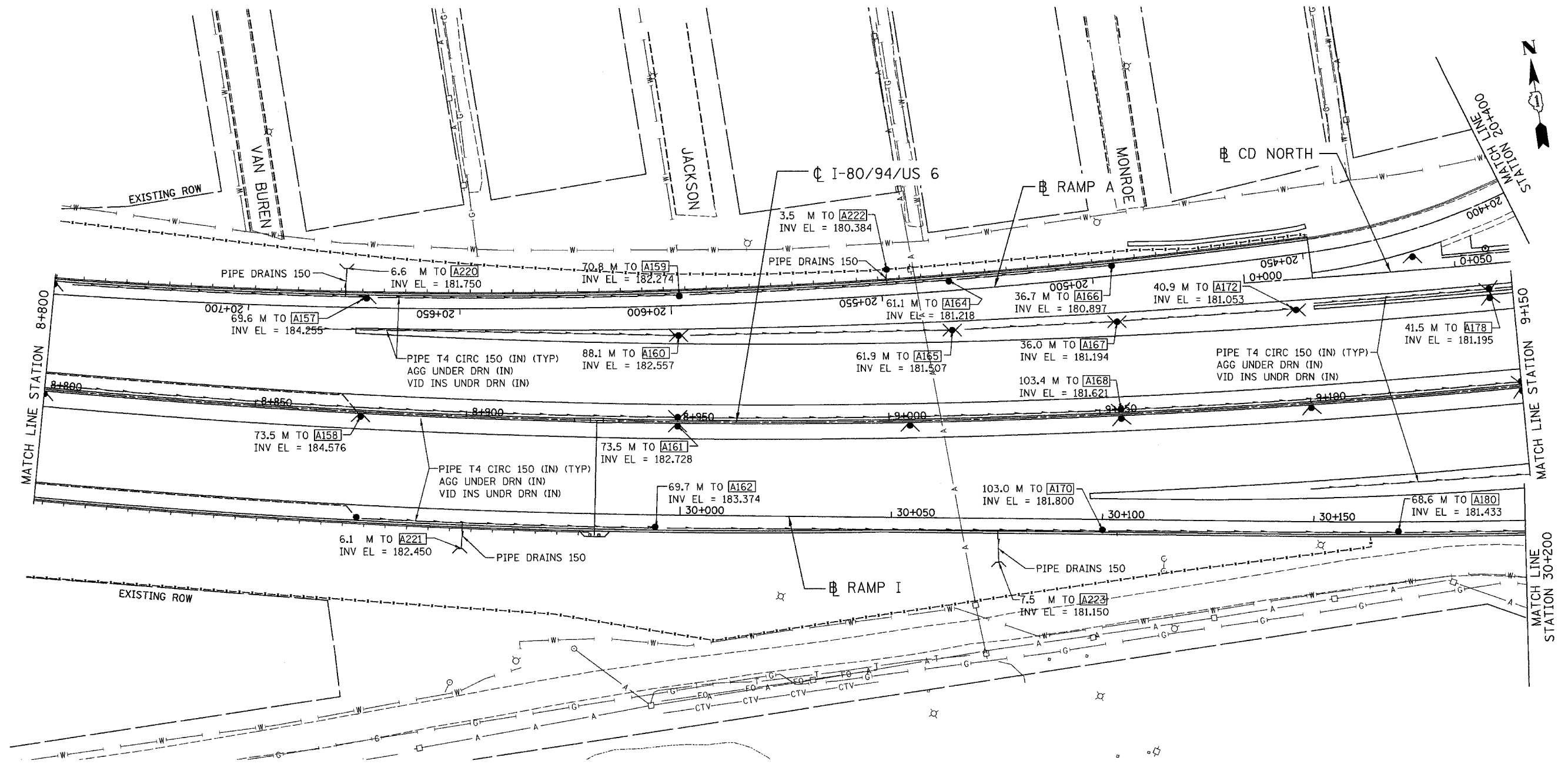


REVISIONS	
NAME	DATE

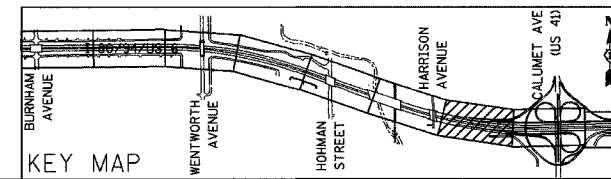
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN PLAN**  
 STA. 8+100 TO STA. 8+800  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	261
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- NOTES:
- REFER TO THE "PIPE UNDERDRAINS AND SHOULDER" DETAIL FOR UNDERDRAIN SYSTEMS INSTALLED IN ILLINOIS.
  - REFER TO THE INDOT STANDARD SHEETS "718-UNDR-01, 02, 06 & 07" FOR UNDERDRAIN SYSTEMS INSTALLED IN INDIANA.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN PLAN**

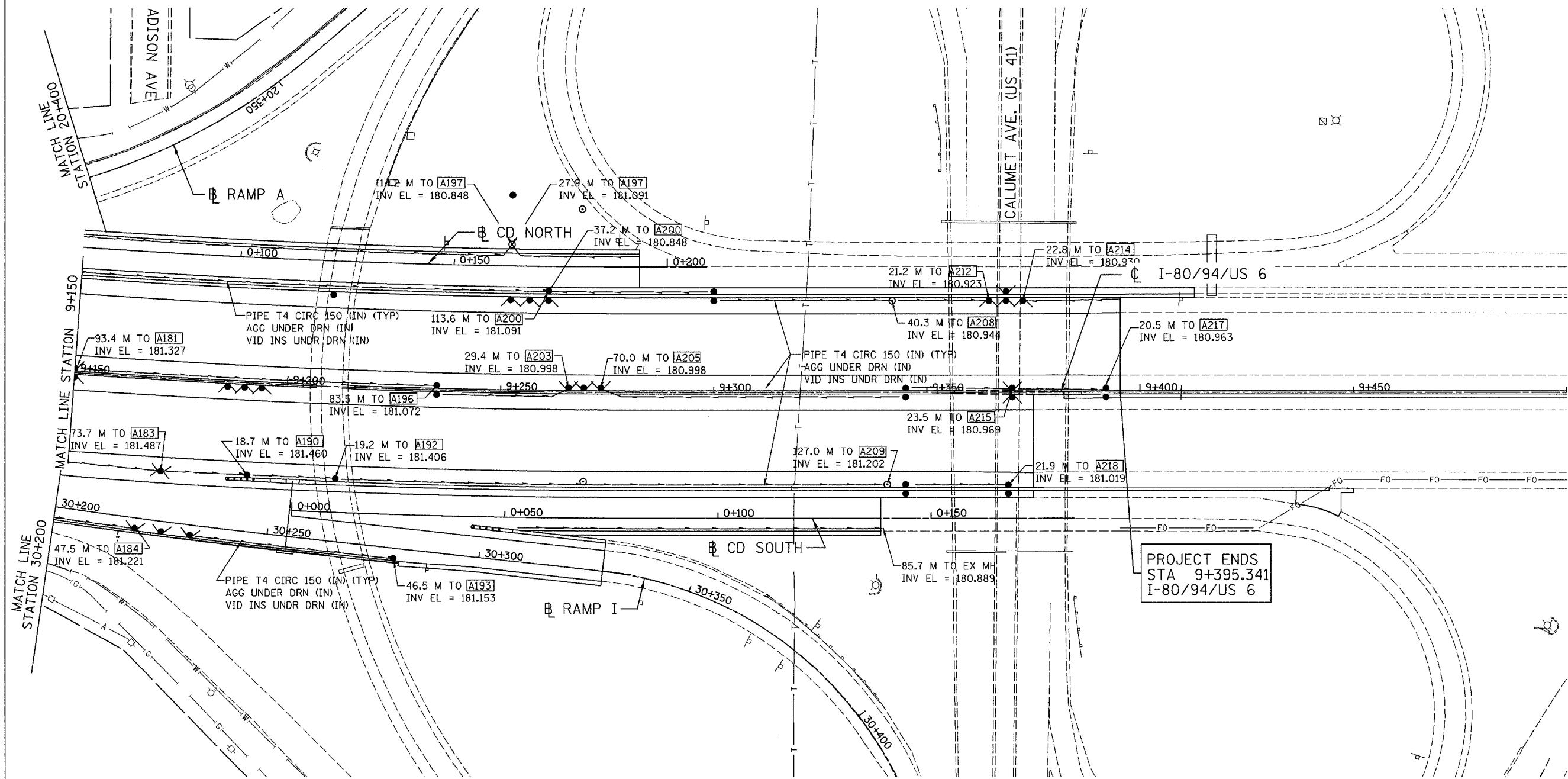
STA. 8+800 TO STA. 9+150  
SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

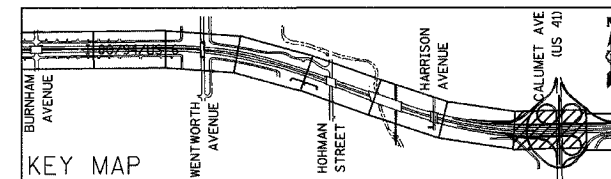
ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	262
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTES:

- REFER TO THE "PIPE UNDERDRAINS AND SHOULDER" DETAIL FOR UNDERDRAIN SYSTEMS INSTALLED IN ILLINOIS.
- REFER TO THE INDOT STANDARD SHEETS "718-UNDR-01, 02, 06 & 07" FOR UNDERDRAIN SYSTEMS INSTALLED IN INDIANA.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN PLAN**

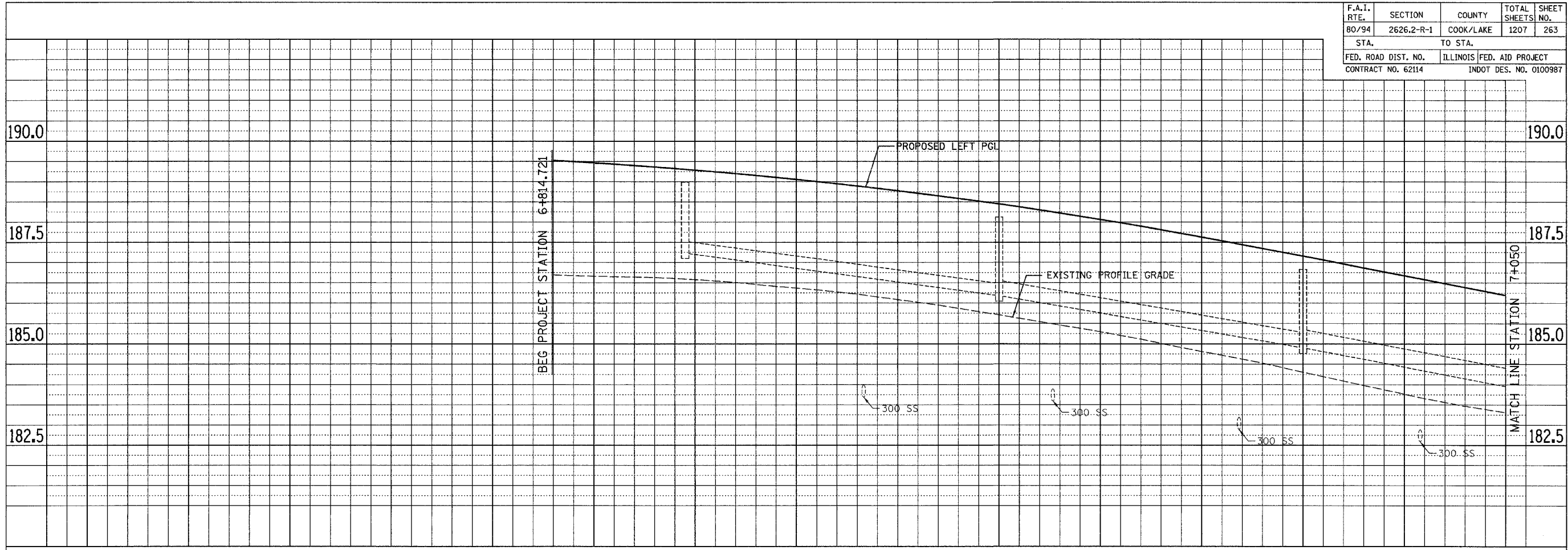
**STA. 9+150 TO STA. 9+500**  
SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

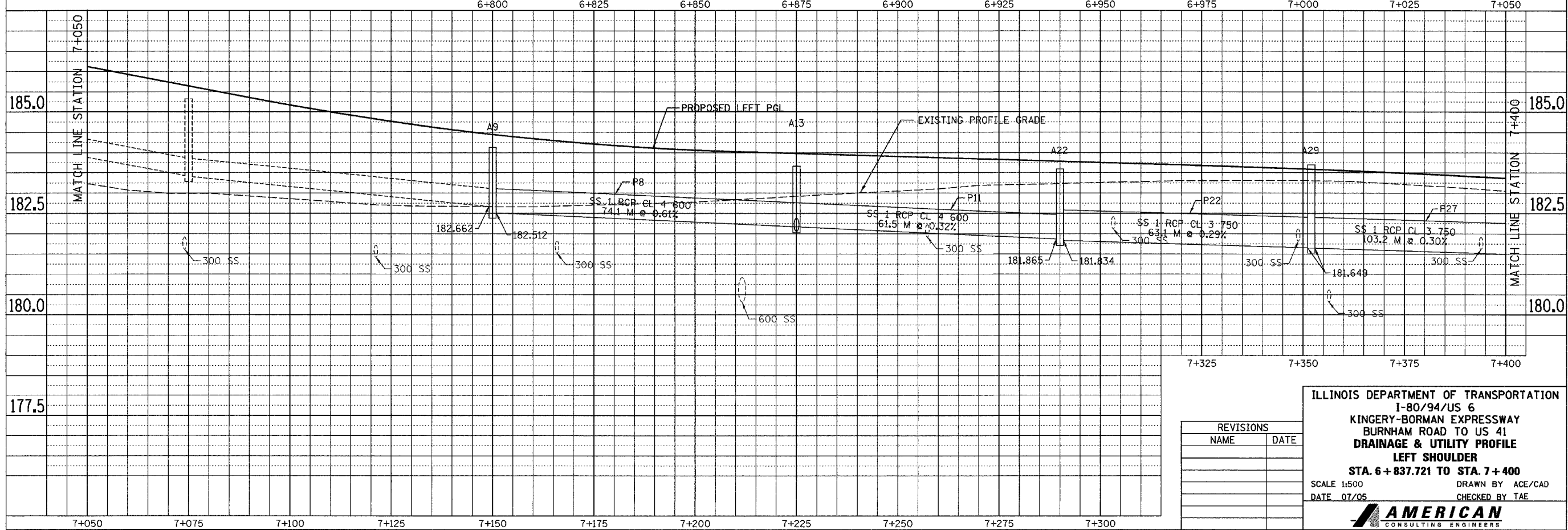
**AMERICAN**  
CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	263
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

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



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



REVISIONS	
NAME	DATE

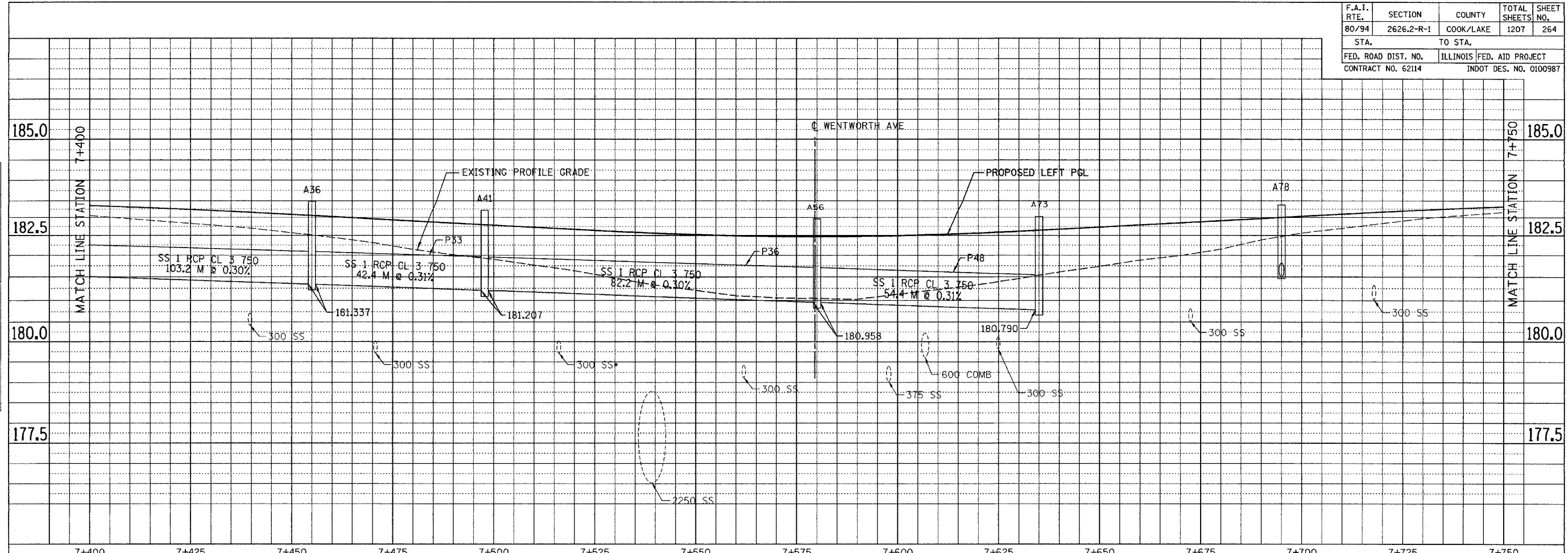
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
DRAINAGE & UTILITY PROFILE  
LEFT SHOULDER  
STA. 6 + 837.721 TO STA. 7 + 400  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

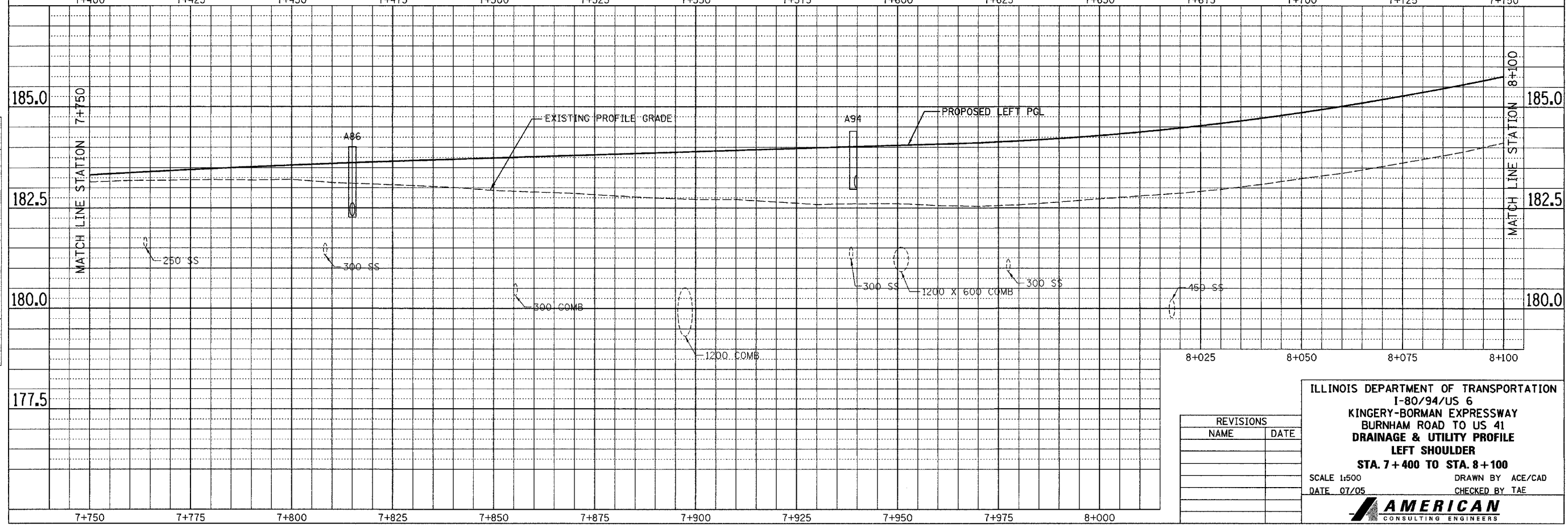
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F.A.I. RTE. 80/94	SECTION 2626.2-R-1	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 264
STA. 7+400		TO STA. 7+750		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**DRAINAGE & UTILITY PROFILE**  
LEFT SHOULDER  
STA. 7+400 TO STA. 8+100  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

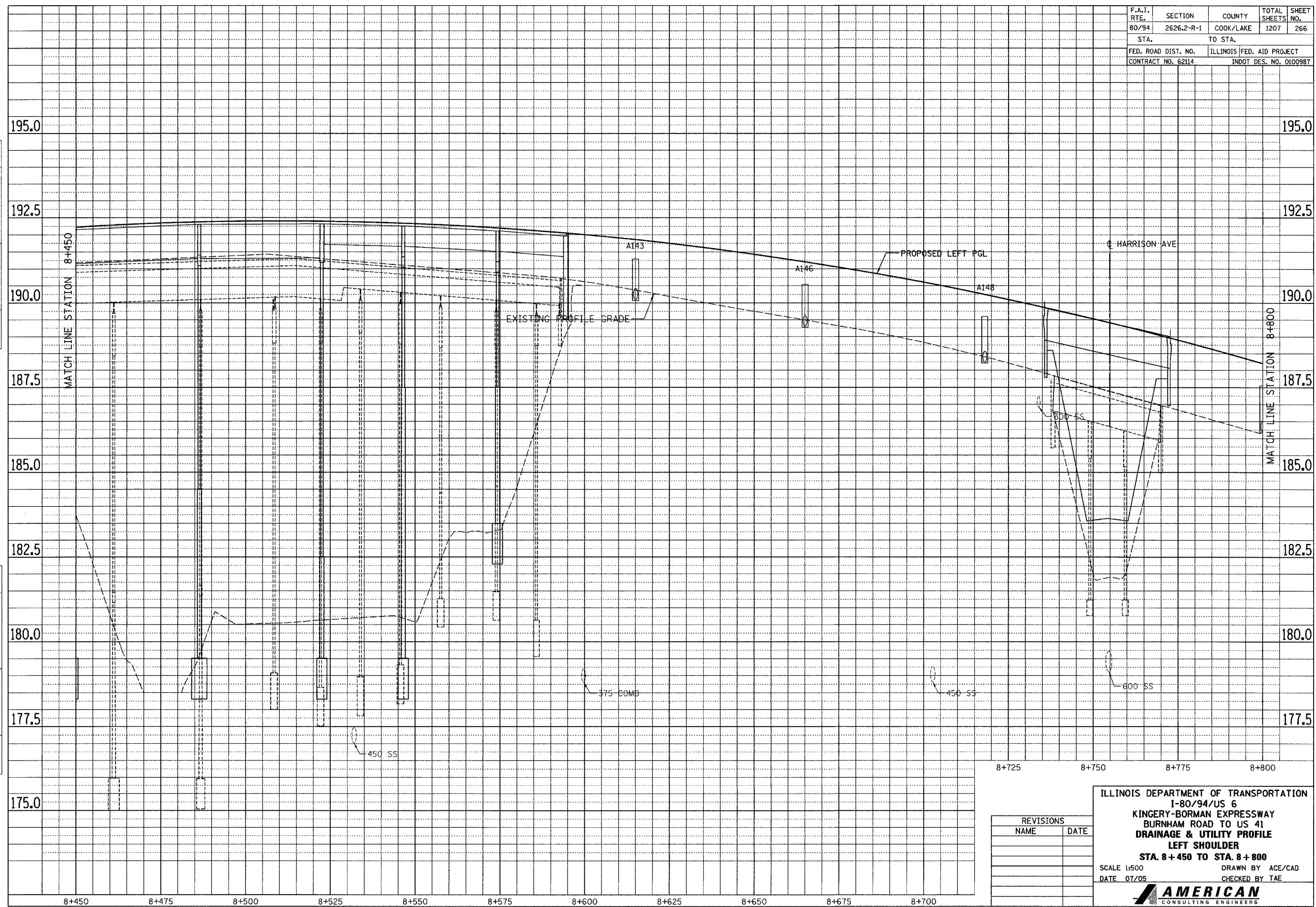




F.A.I. RTE. 80/94	SECTION 2626.2-R-1	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 266
STA. 8+450		TO STA. 8+800		
FED. ROAD DIST. NO. CONTRACT NO. 62114		ILLINOIS FED. AID PROJECT INDOT DES. NO. 0100987		

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

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 LEFT SHOULDER  
 STA. 8+450 TO STA. 8+800

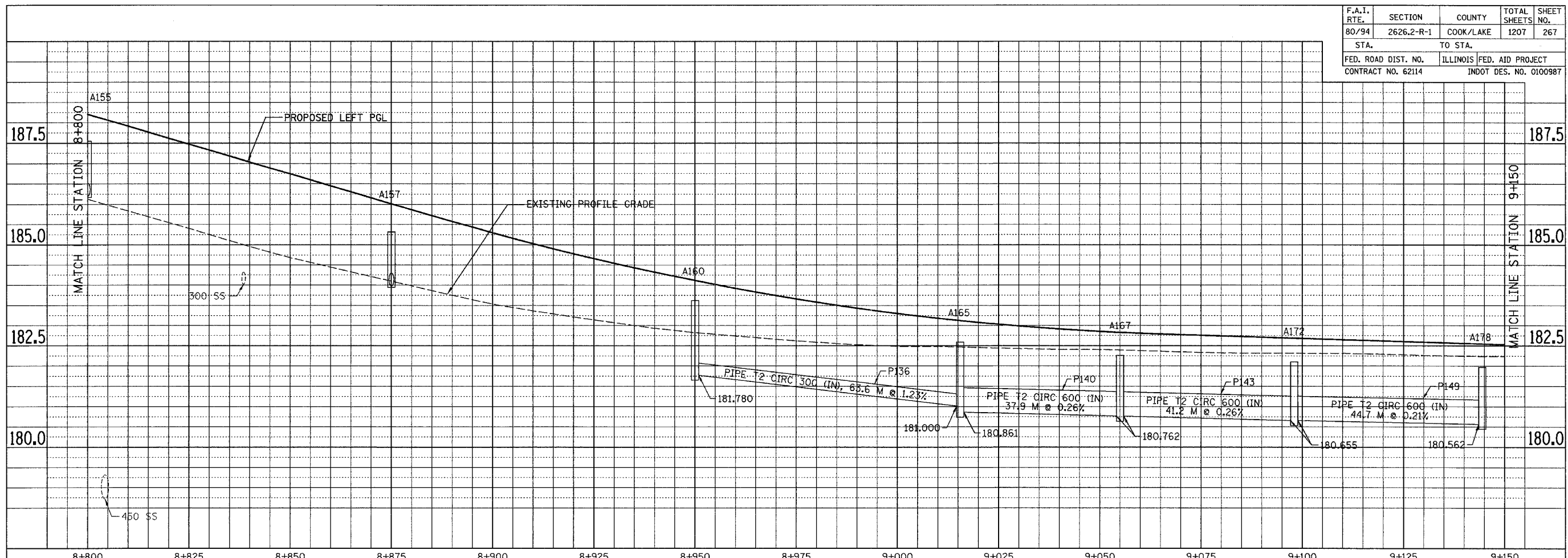
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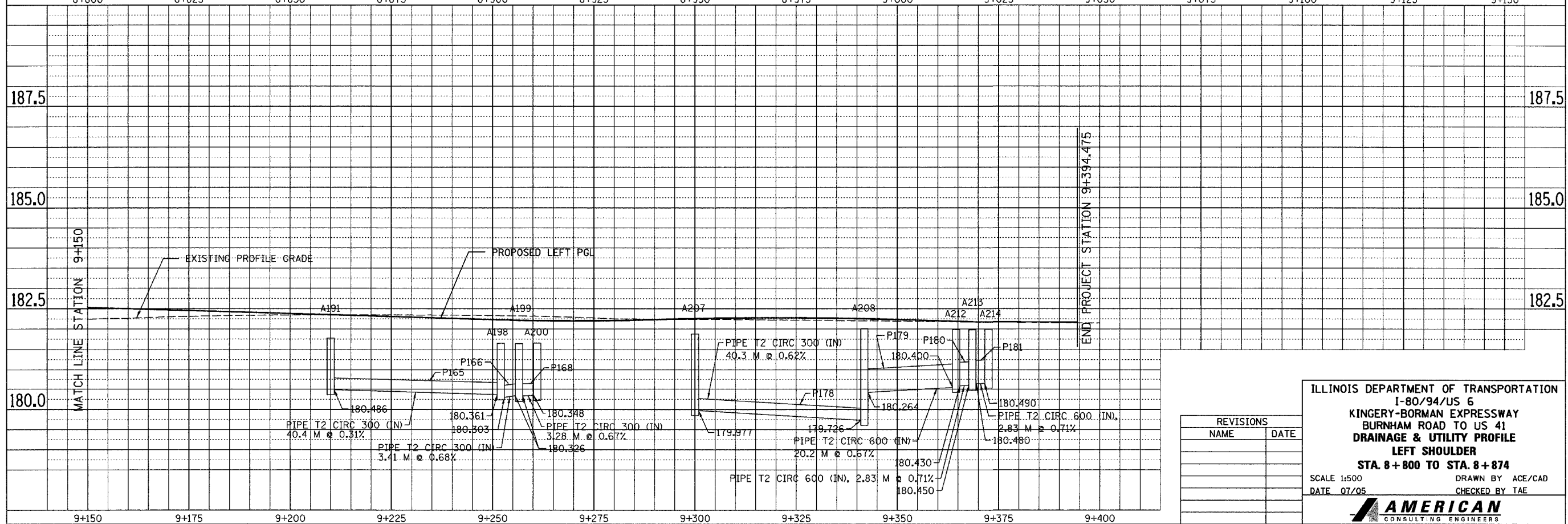
**AMERICAN**  
 CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	267
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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

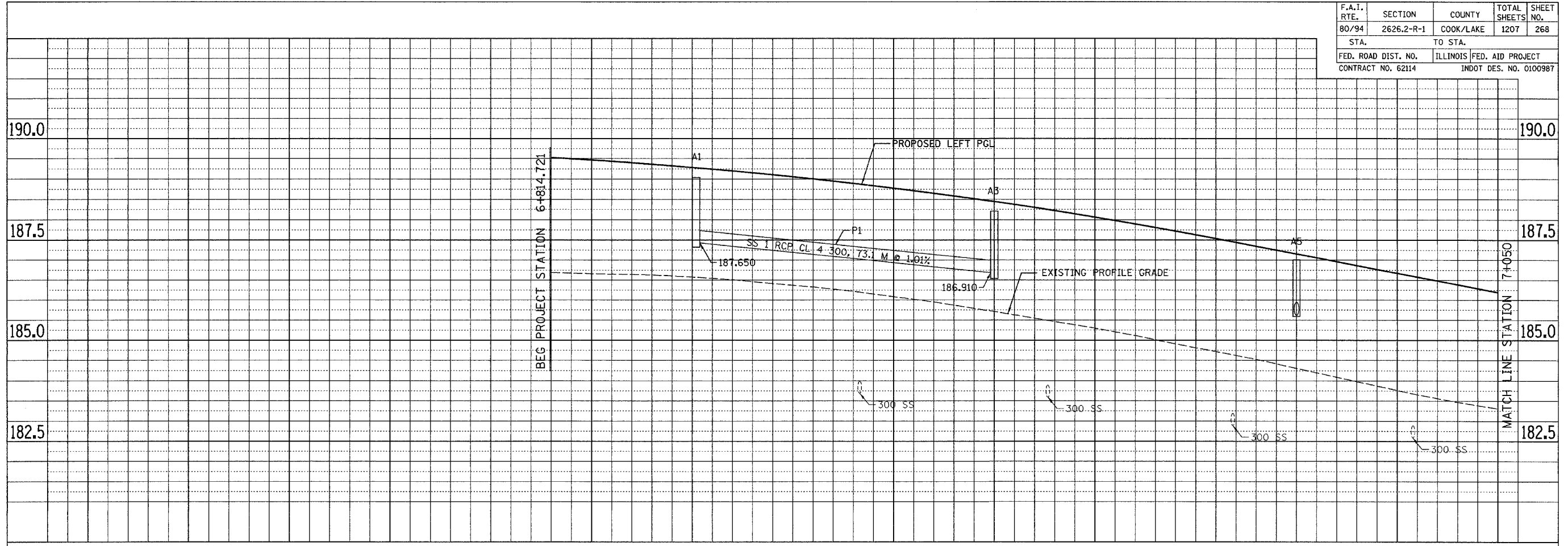


REVISIONS	
NAME	DATE

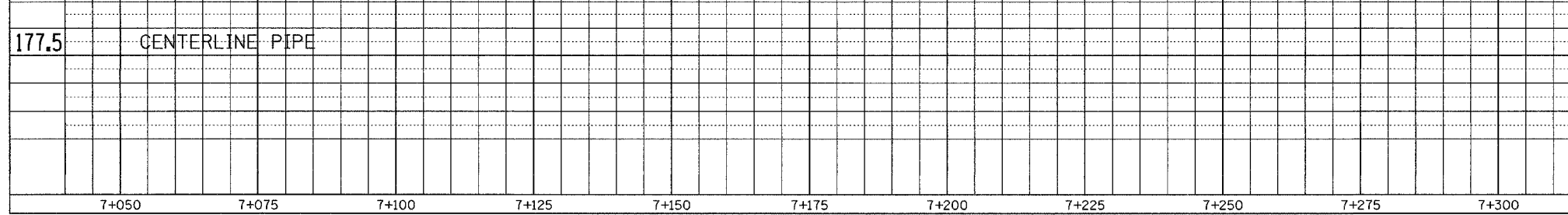
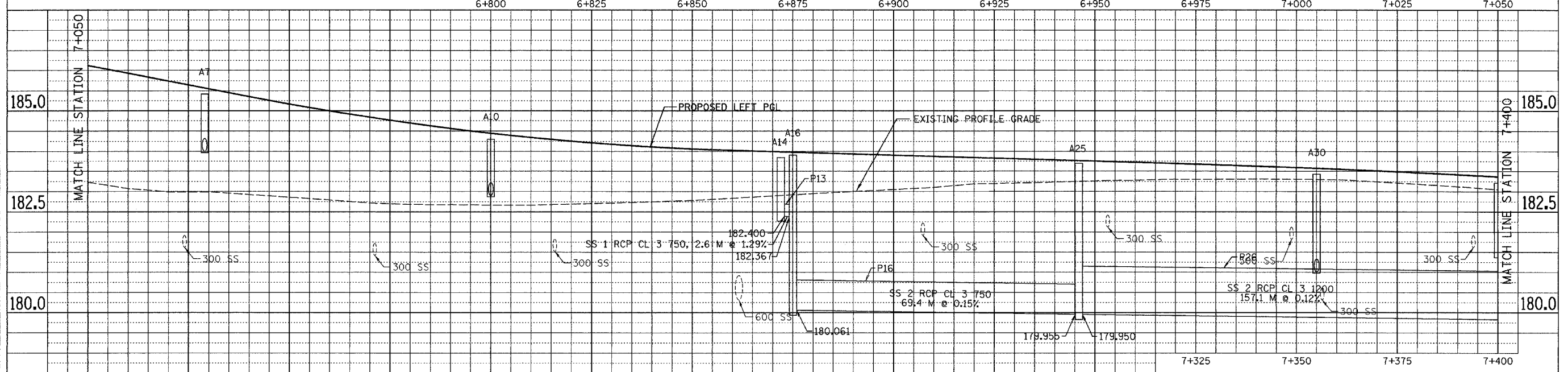
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
DRAINAGE & UTILITY PROFILE  
LEFT SHOULDER  
STA. 8+800 TO STA. 8+874  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE  
**AMERICAN**  
CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	268
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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



177.5 CENTERLINE PIPE

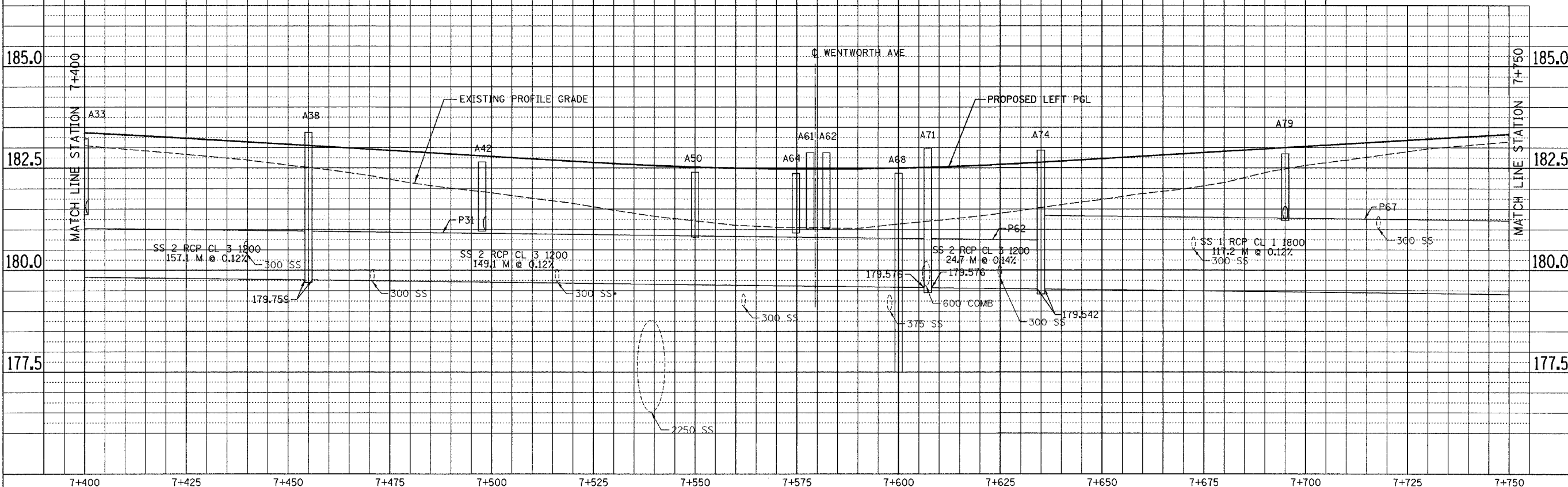
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
DRAINAGE & UTILITY PROFILE  
CENTERLINE  
STA. 6+837.721 TO STA. 7+400  
SCALE 1:500 DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE

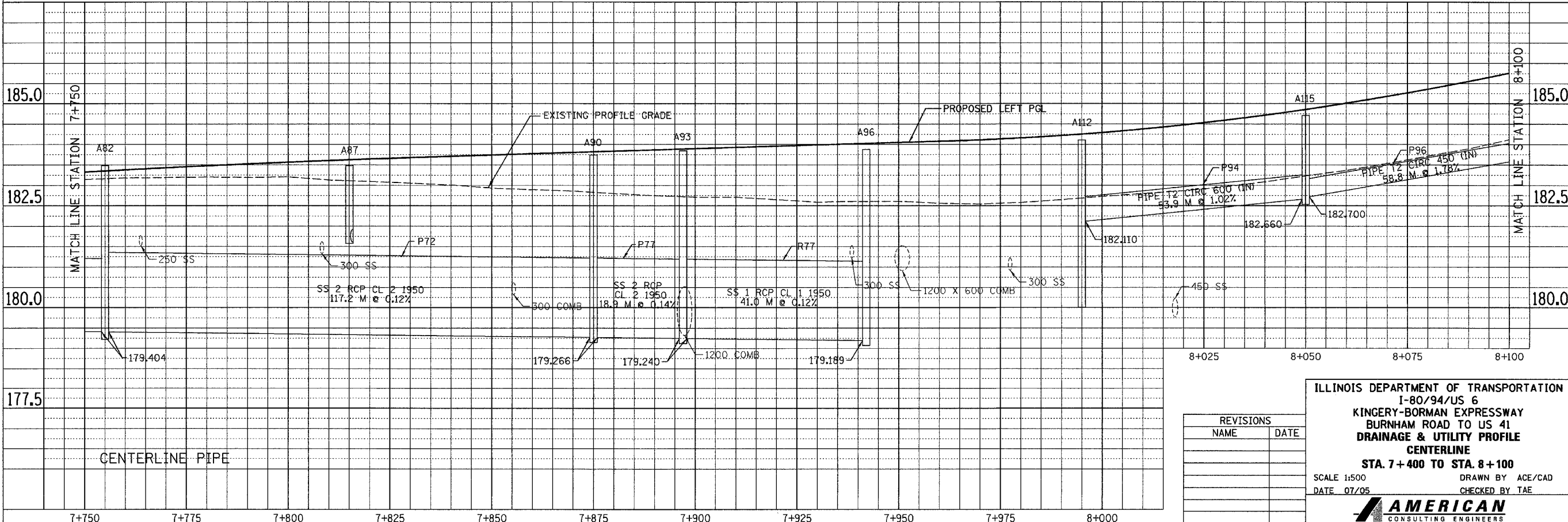
**AMERICAN**  
CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	269
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

BY	DATE



BY	DATE



CENTERLINE PIPE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**DRAINAGE & UTILITY PROFILE**  
**CENTERLINE**  
**STA. 7+400 TO STA. 8+100**  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY TAE

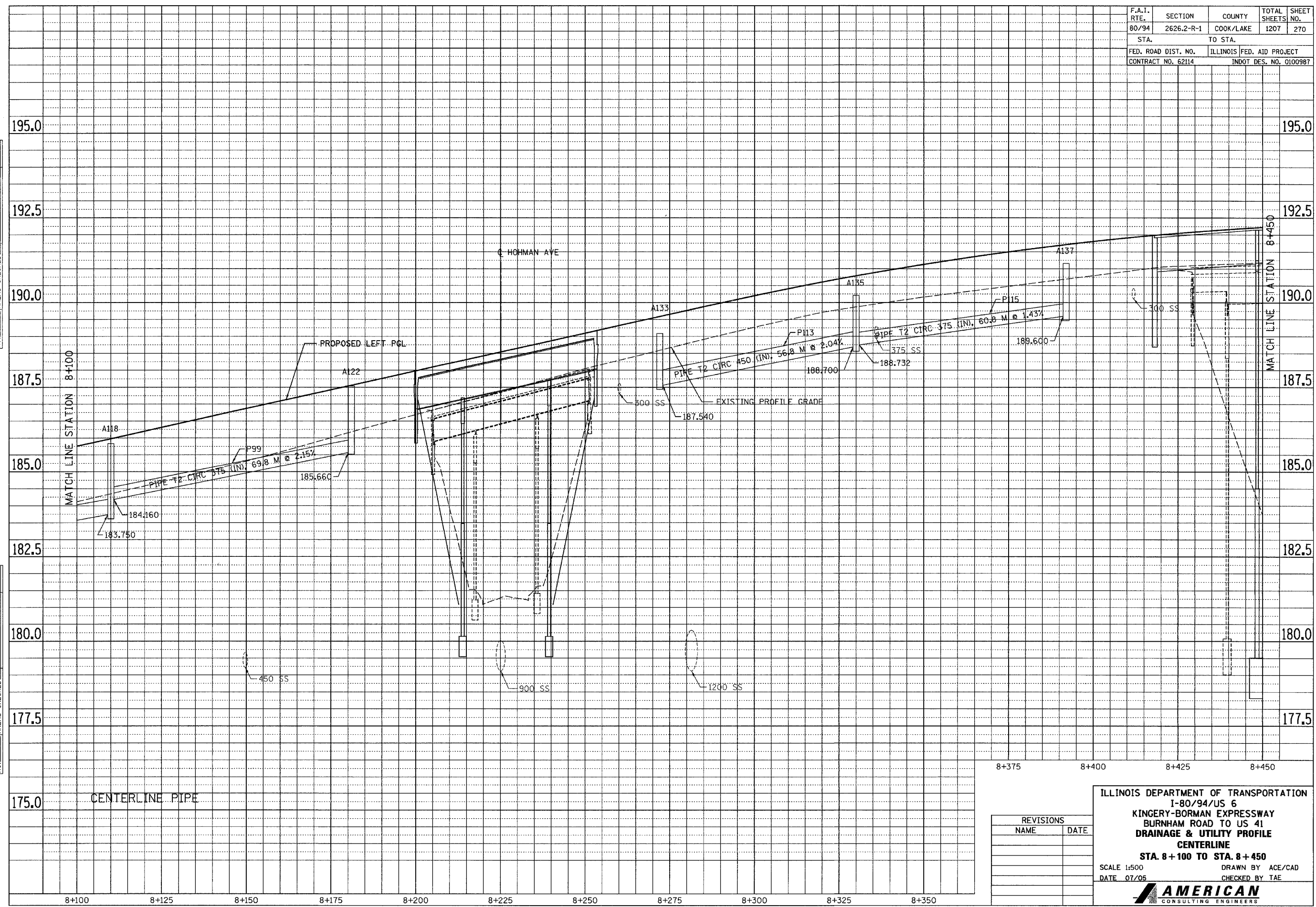
**AMERICAN**  
 CONSULTING ENGINEERS

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F.A.I. RTE. 80/94	SECTION 2626.2-R-1	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 270
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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

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



8+375      8+400      8+425      8+450

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 CENTERLINE  
 STA. 8+100 TO STA. 8+450

SCALE 1:500      DRAWN BY ACE/CAD  
 DATE 07/05      CHECKED BY TAE

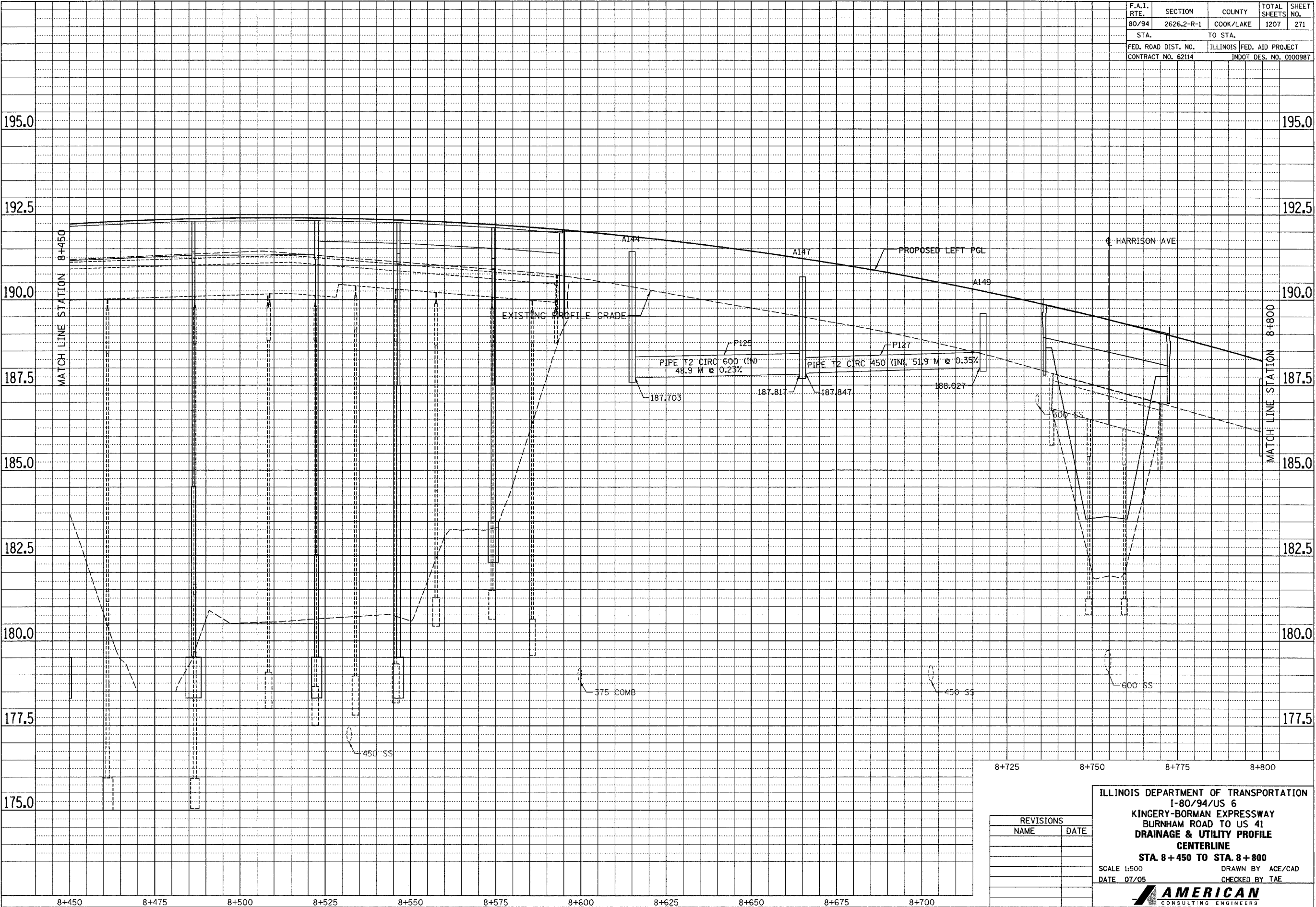
**AMERICAN**  
 CONSULTING ENGINEERS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	271
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 CENTERLINE  
 STA. 8+450 TO STA. 8+800

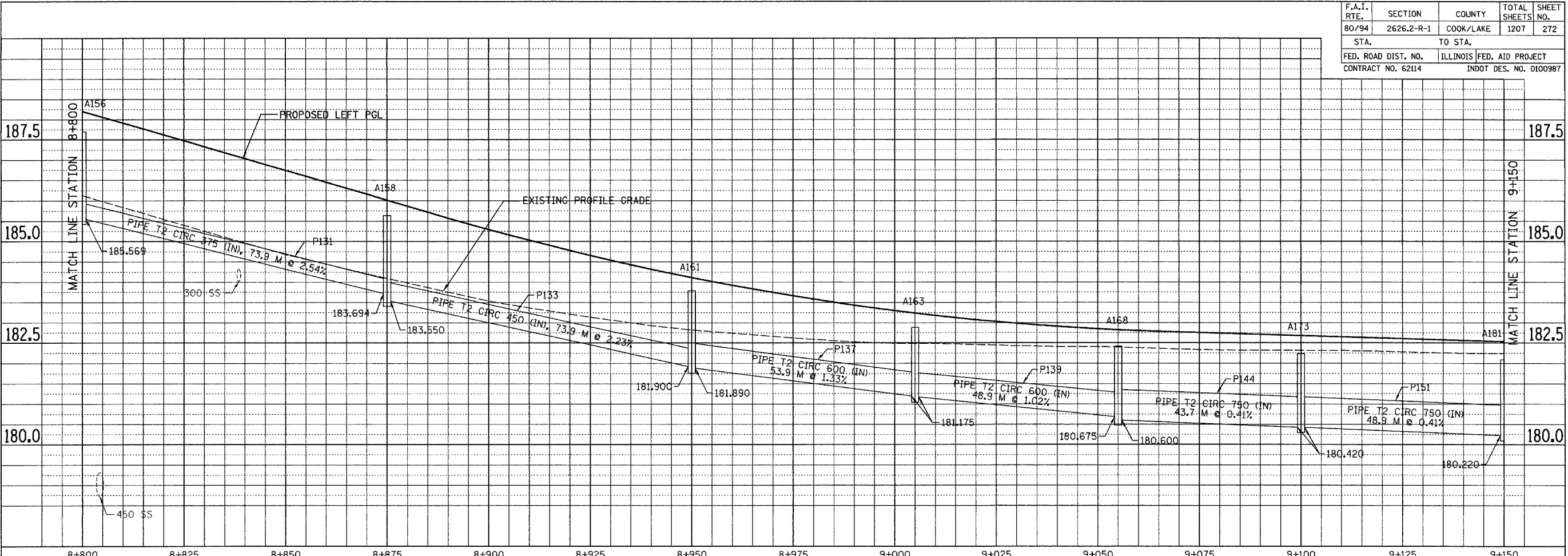
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 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

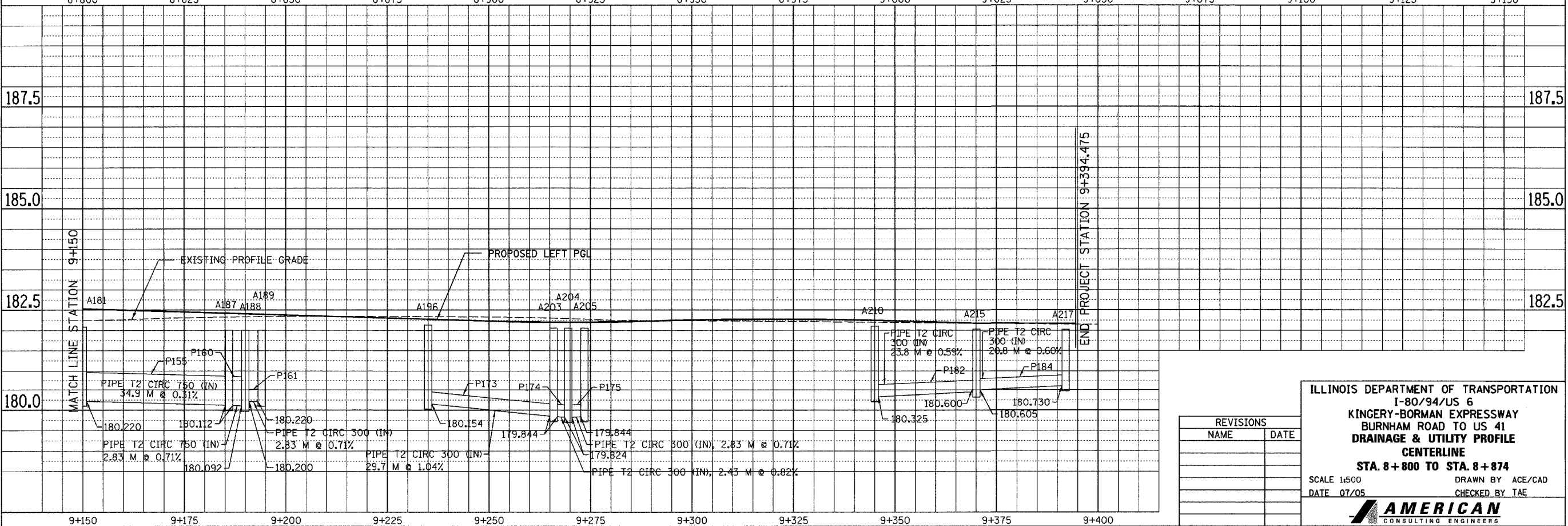
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	272
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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



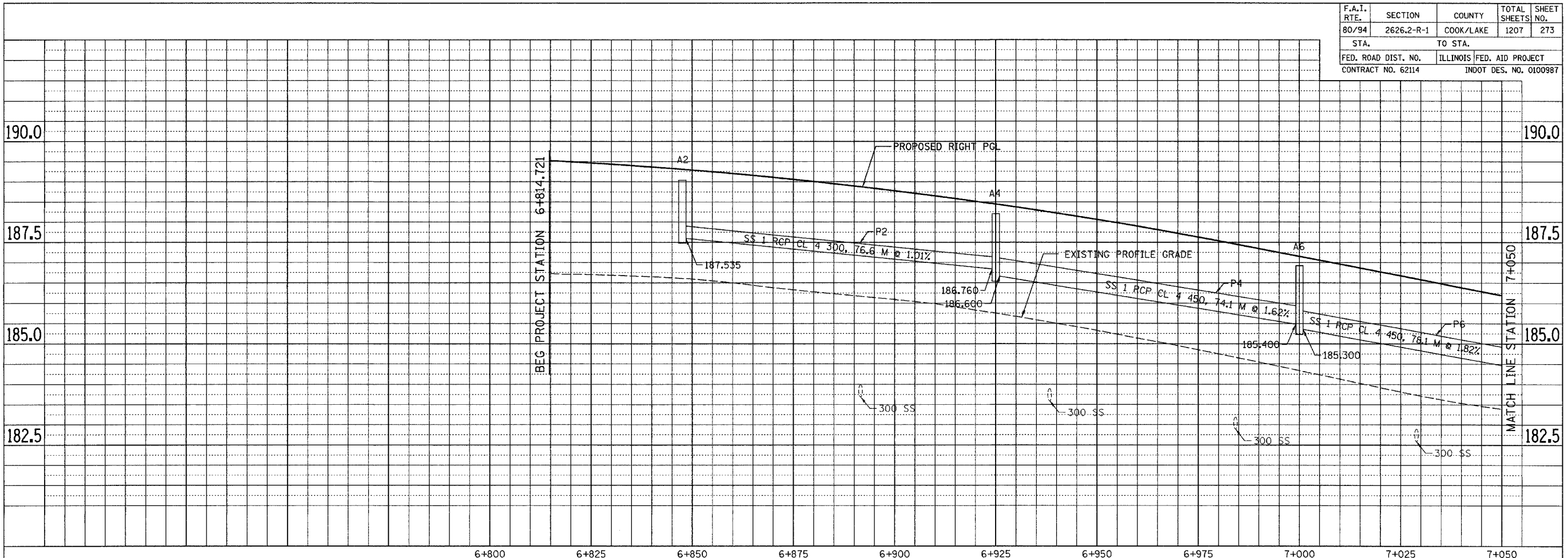
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 CENTERLINE  
 STA. 8+800 TO STA. 8+874  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY TAE  
**AMERICAN**  
 CONSULTING ENGINEERS

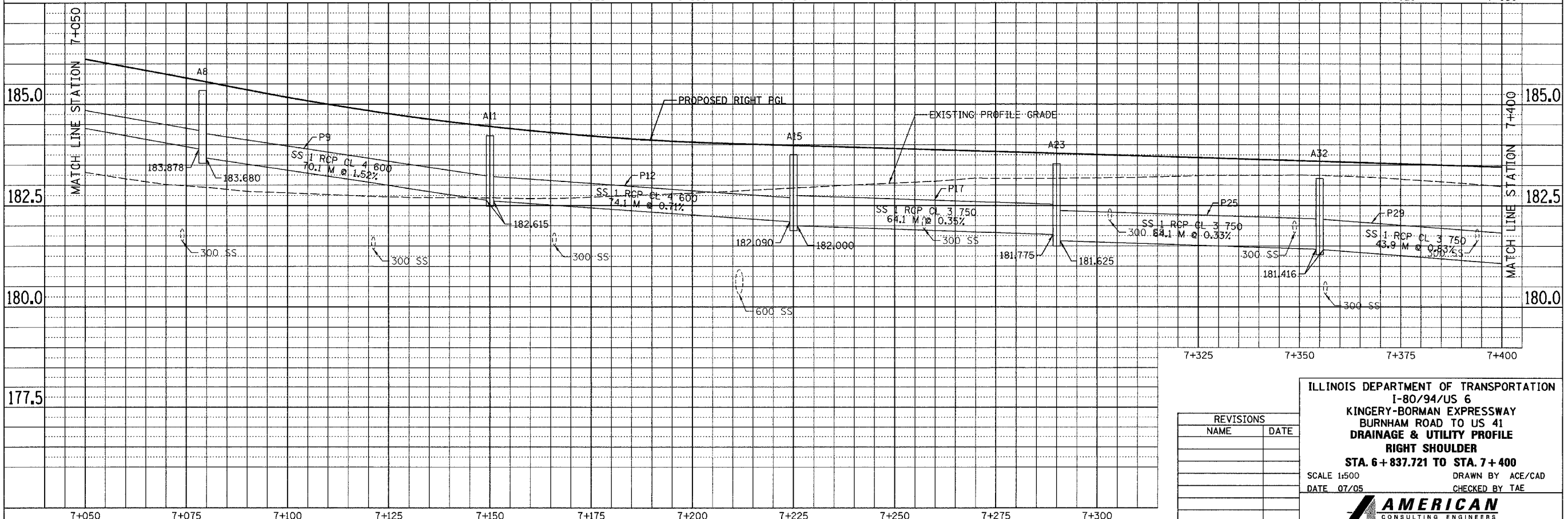


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	273
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

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



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

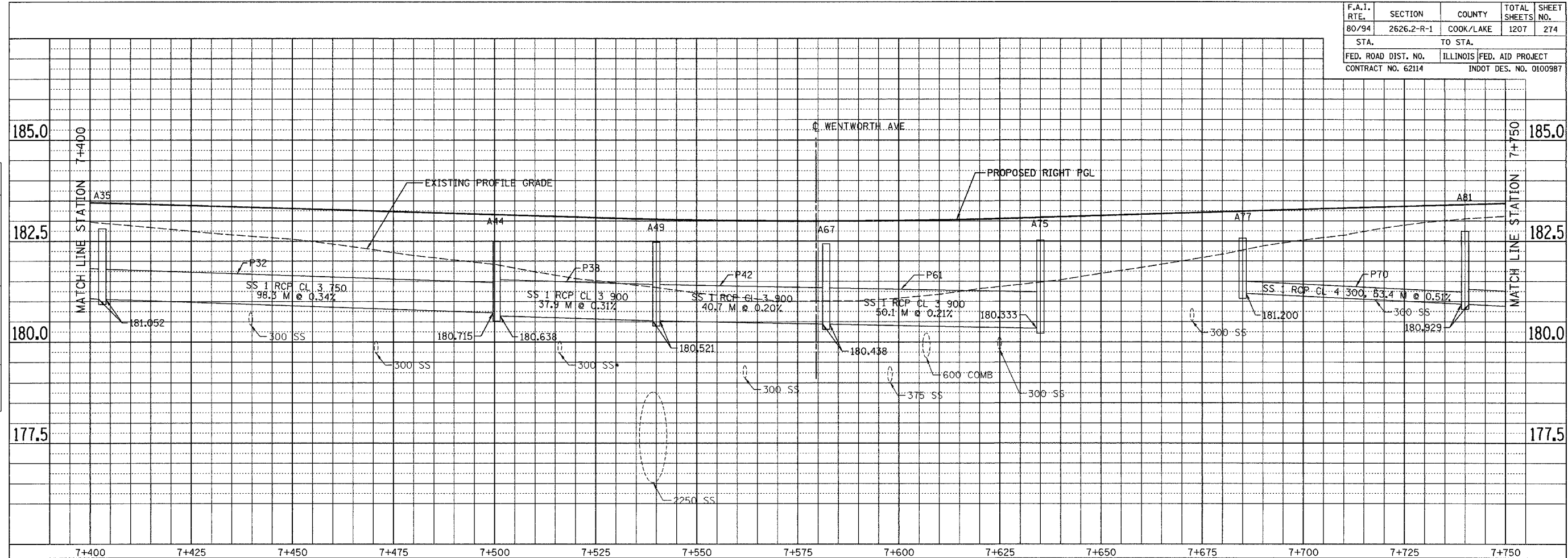


REVISIONS	
NAME	DATE

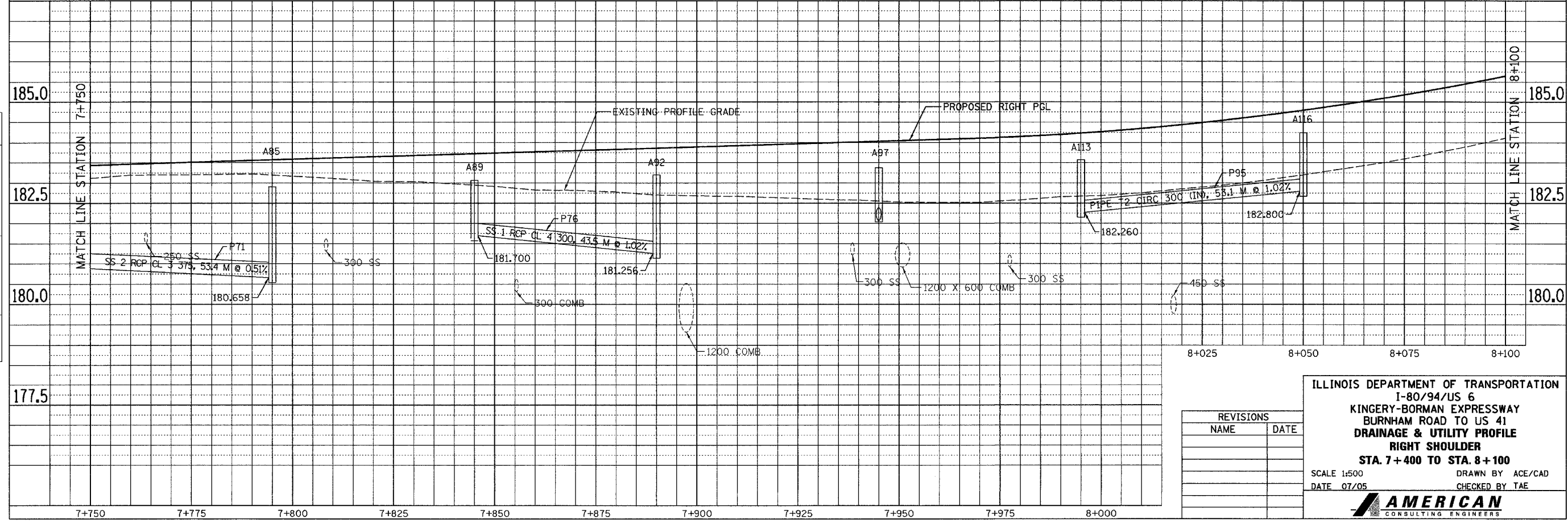
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**DRAINAGE & UTILITY PROFILE**  
**RIGHT SHOULDER**  
 STA. 6+837.721 TO STA. 7+400  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	274
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



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



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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
DRAINAGE & UTILITY PROFILE  
RIGHT SHOULDER  
STA. 7+400 TO STA. 8+100

SCALE 1:500  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

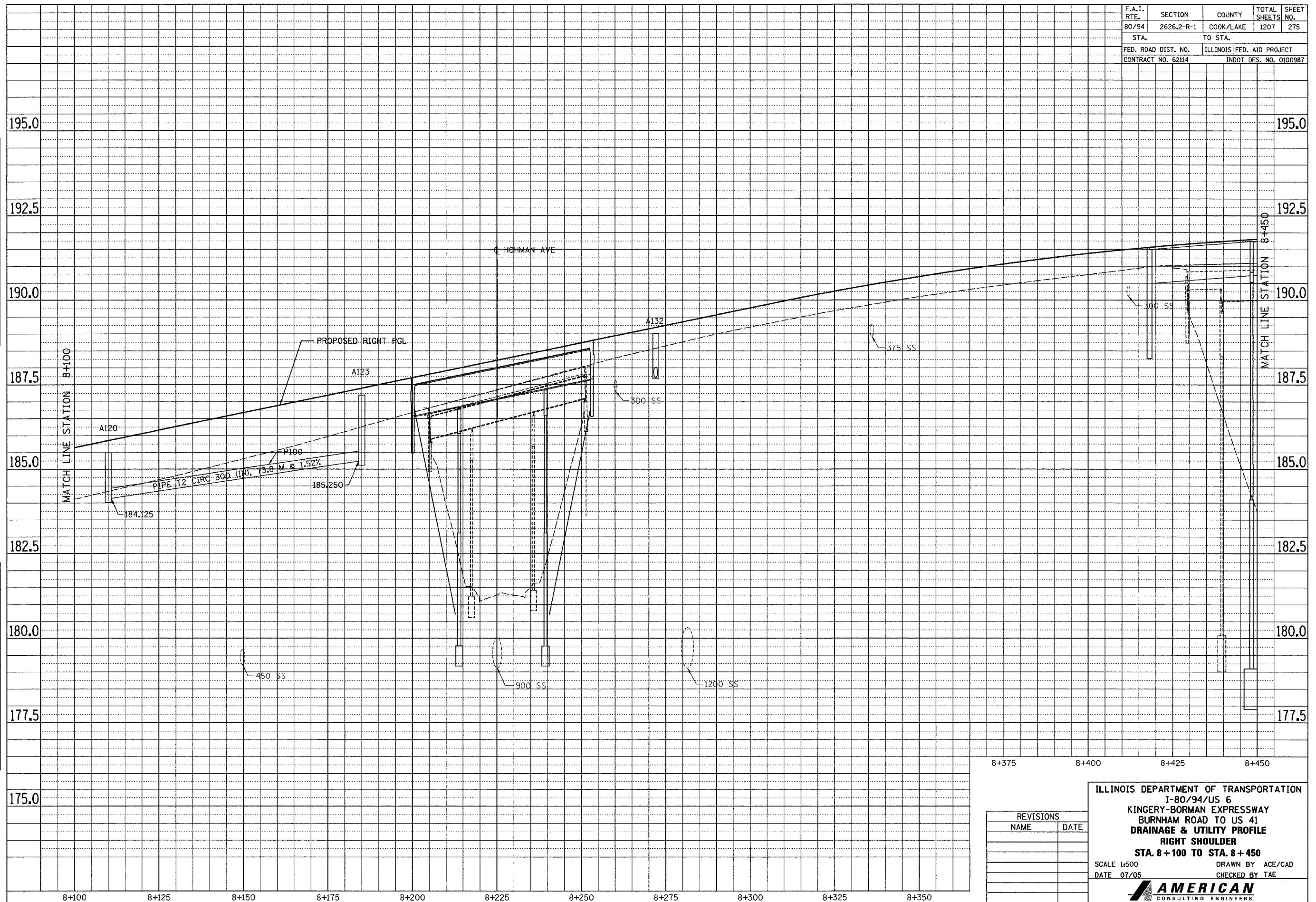
**AMERICAN**  
CONSULTING ENGINEERS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	275
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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

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



8+375      8+400      8+425      8+450

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 RIGHT SHOULDER  
 STA. 8+100 TO STA. 8+450

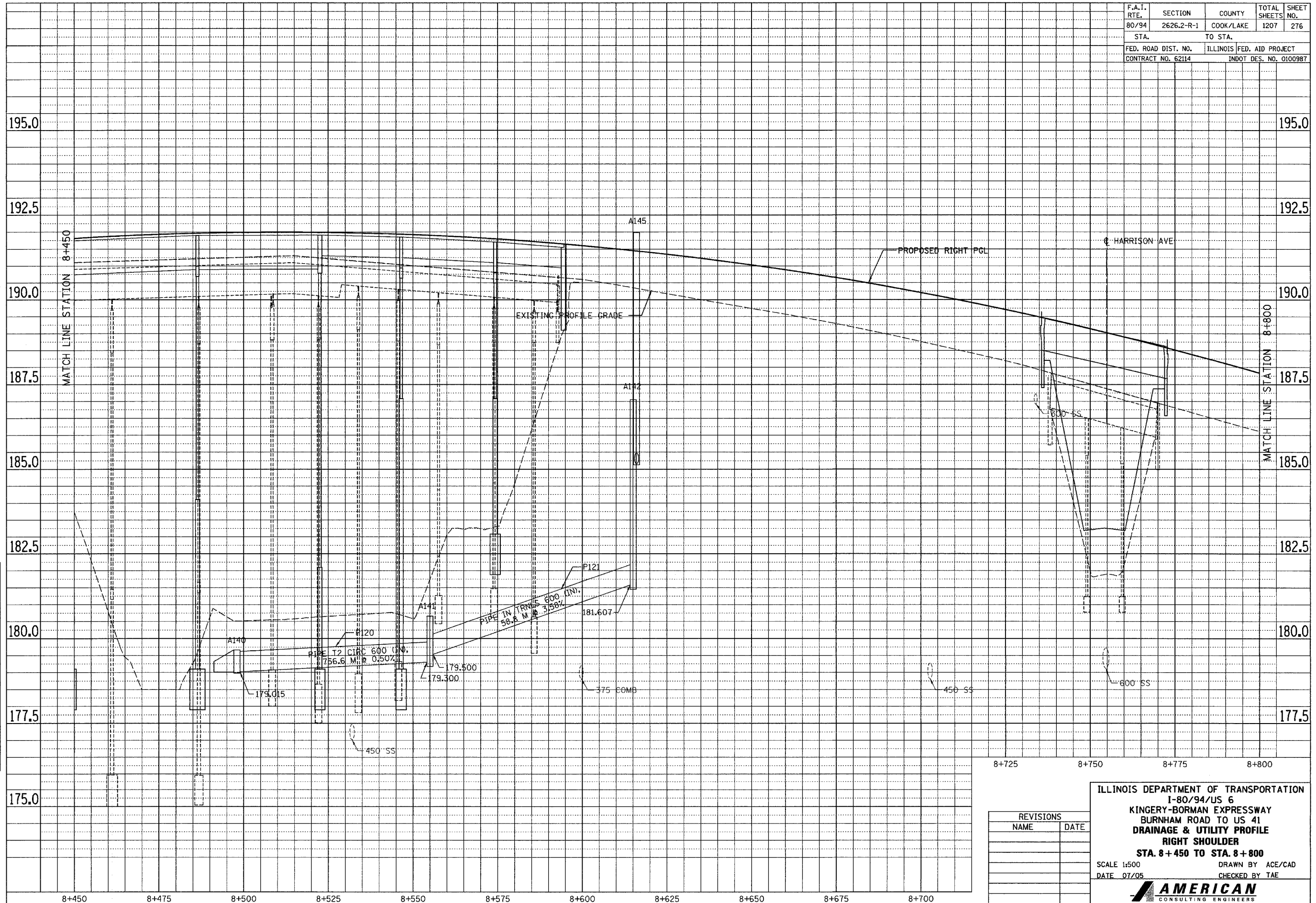
SCALE 1:500      DRAWN BY ACE/CAD  
 DATE 07/05      CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

F.A.I. RTE. 80/94	SECTION 2626.2-R-1	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 276
STA. 8+450		TO STA. 8+800		
FED. ROAD DIST. NO. CONTRACT NO. 62114		ILLINOIS FED. AID PROJECT INDOT DES. NO. 0100987		

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

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



8+725      8+750      8+775      8+800

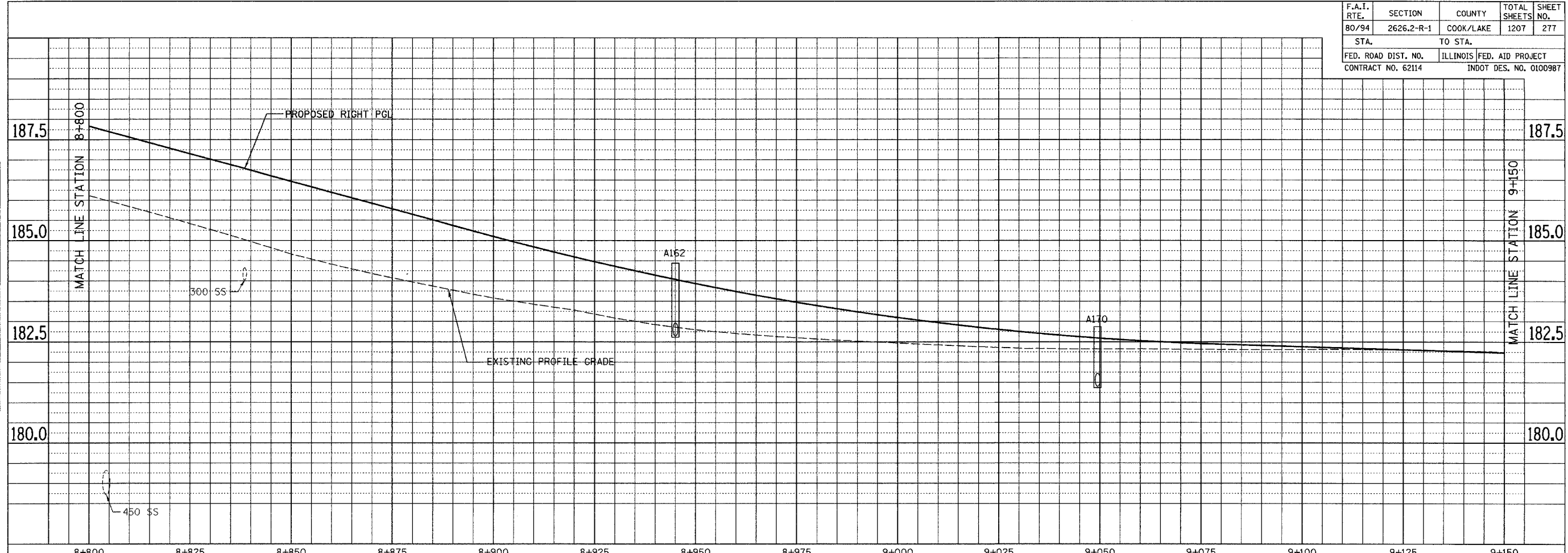
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**DRAINAGE & UTILITY PROFILE**  
**RIGHT SHOULDER**  
**STA. 8+450 TO STA. 8+800**  
 SCALE 1:500      DRAWN BY ACE/CAD  
 DATE 07/05      CHECKED BY TAE

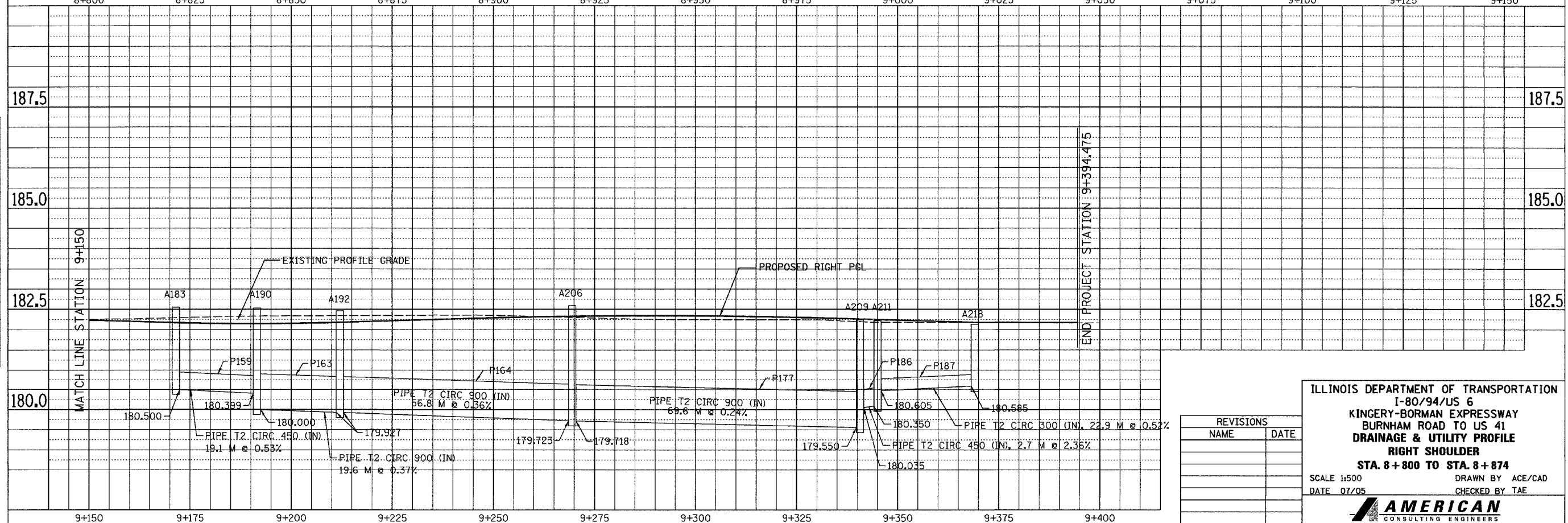
**AMERICAN**  
 CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	277
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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



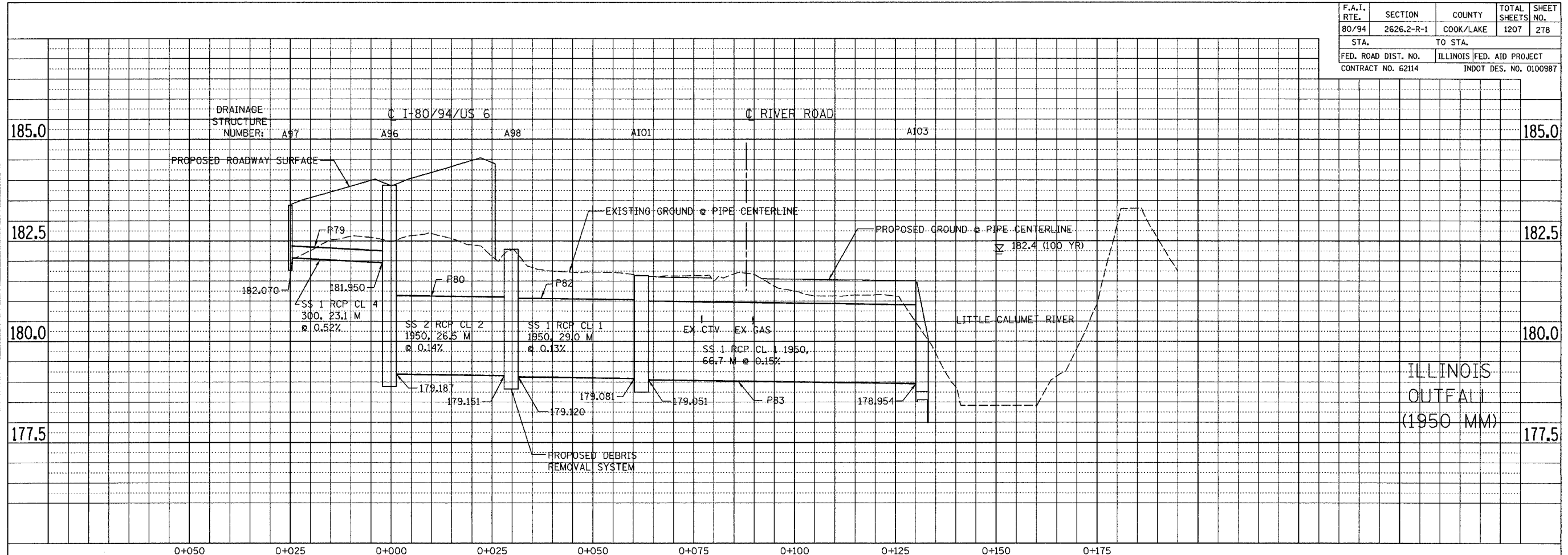
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 DRAINAGE & UTILITY PROFILE  
 RIGHT SHOULDER  
 STA. 8+800 TO STA. 8+874  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE  
**AMERICAN**  
 CONSULTING ENGINEERS

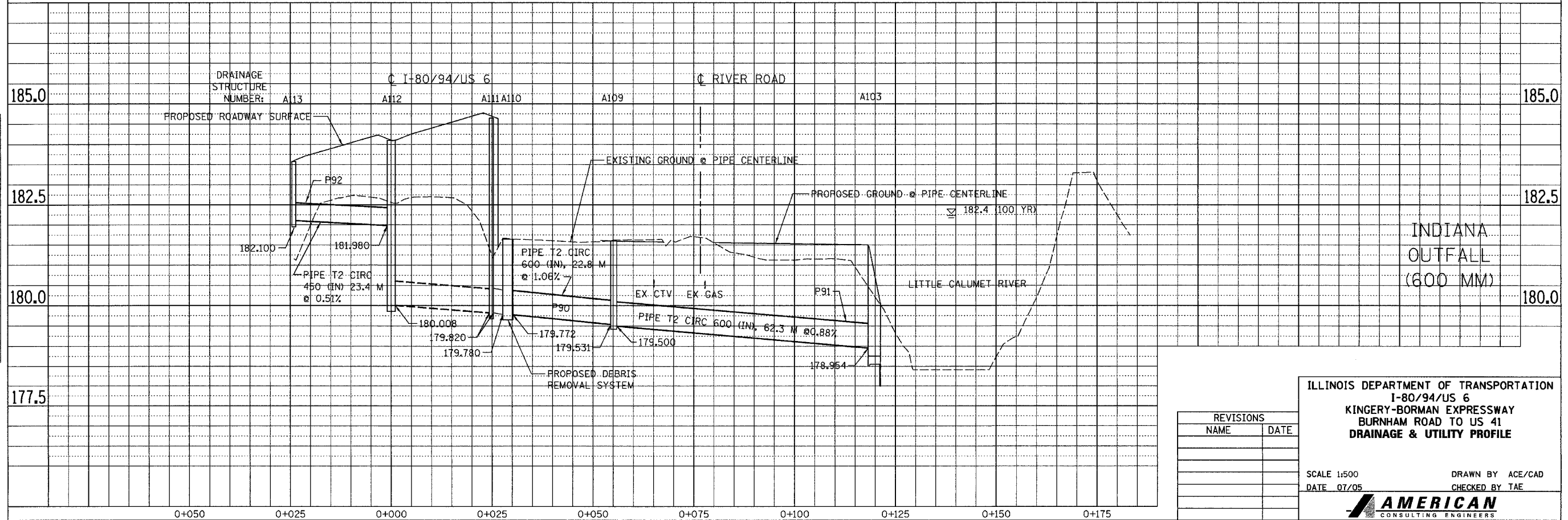
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK/LAKE	1207	278
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

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



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



DISTANCE IN METERS ALONG PIPE CENTERLINE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
DRAINAGE & UTILITY PROFILE

SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE



ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

Table with project details: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., STA., TO STA., FED. ROAD DIST. NO., ILLINOIS FED. AID PROJECT, CONTRACT NO. 62114, INDOT DES. NO. 0100987

DRAINAGE STRUCTURE SCHEDULE

Table A: Drainage Structure Schedule with columns ID, PAY ITEM, STA, OFF, T/FRAME ELEV, INVERT ELEV (N, S, E, W), UND DR, and "D".

DRAINAGE STRUCTURE SCHEDULE

Table B: Drainage Structure Schedule with columns ID, PAY ITEM, STA, OFF, T/FRAME ELEV, INVERT ELEV (N, S, E, W), UND DR, and "D".

IL STRUCTURE PAY ITEMS:

- List of structure pay items including DR STR T1 SP 2T20F&G, CB 1.2X0.9 SPL T20F&G, MAN A (X.X)D TIF CL, RCP TEE (XXX)P (XXX)R, PRO SS CONN TO EX MAN, SO SEPARATOR SYS, REINF CONC END SECT, and JUNCTION CHAMBER N(X).

\* SEE SPECIAL PROVISION

NOTE:

- 1. UND DR = DIRECTION OF UNDER DRAIN CONNECTION
2. FOR "D" SEE SHEET 291

Table with 2 columns: REVISIONS, NAME, DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

DRAINAGE SCHEDULE

SCALE DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE



F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 280
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

DRAINAGE STRUCTURE SCHEDULE

ID	PAY ITEM	STA	OFF	T/FRAME ELEV	INVERT ELEV				UND DR
					N	S	E	W	
A108	SL O FB CHK VALV 600	7+965.87	-103.71						
A109	MANHOLE C4 (IN)	7+974.02	-41.27	182.000	179.500		179.531		
A110	SEWER OUTFL SEP (IN)	7+995.00	-30.00	181.643		179.780		179.772	
A111	INL T HA MOD (IN)	7+995.00	-25.16	184.640	179.820	179.820			E
A112A	INL T H SPL (IN)	7+995.00	0.00	184.114 N	180.008	181.980	182.110		E
A112B	SEE PREVIOUS			184.094 S					
A113	INL T HA MOD (IN)	7+995.00	25.16	183.577	182.100		182.260		E
A114	INL T HA MOD (IN)	8+100.00	-29.18	181.850					S
A115	INL T HA SPL (IN)	8+050.00	-1.29	184.720			182.700	182.660	E
A116	INL T HA MOD (IN)	8+050.00	25.16	184.249				182.800	E
A117	INL T HA MOD (IN)	8+110.00	-25.16	185.969		184.550			E
A118A	INL T H SPL WSD (IN)	8+110.00	0.00	185.837 N	184.080	183.880	184.160	183.750	E
A118B	SEE PREVIOUS			185.713 S					
A120	INL T HA MOD (IN)	8+110.00	25.16	185.502	184.000		184.125		E
A121	INL T HA MOD (IN)	8+181.00	-25.16	187.381		185.843			
A122A	INL T H SPL (IN)	8+181.00	0.00	187.458 N	185.719			185.660	
A122B	SEE PREVIOUS			187.213 S					
A123	INL T HA MOD (IN)	8+185.00	25.16	187.204				185.250	
A130	PIPE END SCT 600 (IN)	8+260.00	-31.25	182.500		182.832			
A131	DROP MANHOLE C2 (IN)	8+260.00	-25.16	189.149	183.100	187.040			E
A132	INL T HA MOD (IN)	8+272.00	25.16	189.024	187.710				E
A133A	INL T H SPL (IN)	8+272.00	0.00	189.499 N	187.300	187.567	187.540		E
A133B	SEE PREVIOUS			189.092 S					
A134	INL T HA MOD (IN)	8+330.00	-25.16	190.449		189.050			E
A135	INL T HA SPL WSD (IN)	8+330.00	1.29	190.216	188.815	188.904	188.732	188.700	E
B135	INL T HA MOD (IN)	8+330.00	25.16	190.314	189.014				
A136	INL T HA MOD (IN)	8+392.00	-25.16	191.214		189.850			
A137	INL T HA SPL WSD (IN)	8+392.00	1.29	191.168	189.659			189.600	
A140	PIPE END SCT 600 (IN)	8+498.00	28.69	179.989			179.015		
A141	MANHOLE C4 (IN)	8+555.00	29.00	180.659			179.500	179.300	
A142	DROP MANHOLE C4 (IN)	8+615.03	29.28	187.052	185.050			181.607	
A143	INL T HA MOD (IN)	8+615.00	-25.16	191.289		190.100			
A144	INL T HA SPL (IN)	8+615.00	1.29	191.346	189.932	187.643	187.703		
A145	DROP MANHOLE C2 (IN)	8+616.00	25.16	191.976	187.518	185.158			
A146	INL T HA MOD (IN)	8+665.00	-25.16	190.530		189.300			W
A147	INL T HA SPL WSD (IN)	8+665.00	1.29	190.670	189.132		187.847	187.817	W
A148	INL T HA MOD (IN)	8+718.00	-25.16	189.600		188.250			W
A149	INL T HA SPL WSD (IN)	8+718.00	1.29	189.736	188.087	188.436		188.027	W
B149	INL T HA MOD (IN)	8+718.00	25.16	190.465	189.165				
A150	CONC HDWL FOR P DRAIN	8+700.00	-30.80	185.700					S
A155	INL T HA MOD (IN)	8+800.00	-27.14	187.552		186.200			
A156	INL T HA SPL (IN)	8+800.00	1.29	187.707	185.934		185.569		
A157	INL T HA MOD (IN)	8+875.01	-27.14	185.321		183.984			W
A158	INL T HA SPL WSD (IN)	8+875.00	1.29	185.642	183.654	184.342	183.550	183.694	W
B158	INL T HA MOD (IN)	8+875.00	25.16	186.288	184.988				
A159	INL T HA MOD (IN)	20+598.00	2.48	183.340		181.950			W
A160	MANHOLE C2 (IN)	8+950.00	-20.40	183.623	181.800		181.780		W
A161A	INL T H SPL (IN)	8+950.00	0.00	183.976 N		182.450	181.890	181.900	
A161B	SEE PREVIOUS			183.794 S					W
A162	INL T HA MOD (IN)	8+945.00	25.16	184.440	182.646				W
A163	INL T HA SPL WSD (IN)	9+005.00	1.29	182.893			181.175	181.175	
A164	INL T HA MOD (IN)	20+534.00	2.48	182.284		180.908			W
A165	MANHOLE C2 WSD (IN)	9+015.50	-21.84	182.573	180.861		180.861	181.000	W
A166	INL T HA MOD (IN)	20+495.25	2.48	181.963		180.828			W
A167	MANHOLE C2 WSD (IN)	9+055.00	-22.02	182.260	180.763		180.762	180.762	W
A168A	INL T H SPL (IN)	9+055.00	0.00	182.687 N		181.140	180.600	180.675	W
A168B	SEE PREVIOUS			182.419 S					
A170	INL T HA MOD (IN)	30+100.00	2.48	182.866	181.400				W
A172	MANHOLE C2 WSD (IN)	9+098.00	-22.26	182.119			180.655	180.655	W
A173	INL T HA SPL (IN)	9+100.00	1.29	182.245			180.420	180.420	

DRAINAGE STRUCTURE SCHEDULE

ID	PAY ITEM	STA	OFF	T/FRAME ELEV	INVERT ELEV				UND DR
					N	S	E	W	
A176	INL T HA MOD WSD (IN)	0+040.00	-3.25	182.127			180.700		E
A177	MANHOLE C4 (IN)	0+057.54	-3.65	181.926			180.532	180.532	
A178A	INL T H SPL (IN)	9+144.45	22.56	182.261 N	180.558			180.562	W
A178B	SEE PREVIOUS			181.977 S					
A180	INL T HA MOD (IN)	30+170.00	2.48	182.499			181.145		W
A181A	INL T H SPL (IN)	9+150.00	0.00	182.393 N			180.220	180.220	W
A181B	SEE PREVIOUS			182.094 S					
A183	MANHOLE C2 WSD (IN)	9+171.50	21.72	182.553		180.529	180.500		W
A184	INL T HA MOD (IN)	30+219.00	2.48	182.287			180.850	180.900	W
A185	INL T HA MOD WSD (IN)	30+225.25	2.48	182.276	180.600		180.866	180.719	
A186	INL T HA MOD (IN)	30+232.00	2.48	182.288				180.900	
A187	INL T HA SPL (IN)	9+186.00	1.29	182.008			180.112	180.112	
A188	INL T HA SPL WSD (IN)	9+190.00	1.29	182.007		180.062	180.200	180.092	
A189	INL T HA MOD (IN)	9+194.00	1.29	182.008				180.220	
A190	MANHOLE D2 (IN)	9+191.50	21.27	182.526	180.000		180.000	180.399	W
A191	INL T HA MOD (IN)	9+210.00	-21.48	181.776			180.486		
A192	MANHOLE D2 (IN)	9+212.00	21.27	182.472		180.668	179.927	179.927	W
A193	INL T HA MOD (IN)	30+280.00	2.40	182.219	180.900				W
A196A	INL T H SPL (IN)	9+235.00	0.00	182.138 N			180.154		W
A196B	SEE PREVIOUS			182.108 S					
A197	MANHOLE D4 (IN)	0+163.50	-5.00	181.914	180.172	180.205	180.154	180.162	
A198	INL T HA MOD (IN)	9+252.00	-21.27	181.655	180.270		180.303	180.361	
A199	INL T HA MOD WSD (IN)	9+256.50	-21.27	181.645			180.326	180.326	
A200A	INL T H SPL (IN)	9+261.00	22.56	182.157 N				180.348	E/W
A200B	SEE PREVIOUS			181.657 S					
A201	INLET TYPE HA (IN)	0+163.50	-16.58	181.431		180.230			
A202	MANHOLE D4 (IN)	0+180.00	-13.48	182.004			E180.08	180.080	
A203	INL T HA MOD (IN)	9+265.90	-1.29	182.064			179.844	179.844	W
A204	INL T HA MOD WSD (IN)	9+269.50	-1.29	182.063		179.824	179.824	179.824	
A205	INL T HA MOD (IN)	9+273.50	-1.29	182.064			179.844		E
A206	MANHOLE D2 (IN)	9+269.50	21.27	182.596	179.718		179.718	179.723	
A207A	INL T H SPL (IN)	9+300.00	-22.56	181.831 N			179.977		
A207B	SEE PREVIOUS			181.879 S					
A208	MANHOLE E4 (IN)	9+341.83	-21.48	182.010	E179.67	E179.67	180.264	179.726	W
A209	MANHOLE E4 (IN)	9+340.68	21.48	182.268	E179.55	E179.55	180.035	179.550	W
A210A	INL T H SPL (IN)	9+345.00	0.00	182.108 N		180.300	180.325		
A210B	SEE PREVIOUS			182.109 S					
A211A	INL T H SPL (IN)	9+345.00	22.56	182.224 N	180.201		180.605	180.350	
A211B	SEE PREVIOUS			182.176 S					
A212	INL T HA SPL (IN)	9+364.50	-21.27	181.989			180.430	180.400	W
A213A	INL T H SPL WSD (IN)	9+368.50	-22.53	181.940 N			180.480	180.450	
A213B	SEE PREVIOUS			181.988 S					
A214	INL T HA SPL (IN)	9+372.50	-21.27	181.996			180.490	180.500	E
A215	INL T HA MOD WSD (IN)	9+370.00	-1.29	182.035			180.605	180.600	W
A216	INL T HA MOD WSD (IN)	9+370.00	1.29	182.036			180.490	180.450	
A217A	INL T H SPL (IN)	9+392.00	0.00	182.029 N				180.730	W
A217B	SEE PREVIOUS			182.032 S					
A218A	INL T H SPL (IN)	9+369.00	22.56	182.085 N			E180.60	180.585	W
A218B	SEE PREVIOUS			182.037 S					
A220	CONC HDWL FOR P DRAIN	8+870.00	-33.60	181.300					S
A221	CONC HDWL FOR P DRAIN	8+900.00	31.25	182.600					N
A222	INL T HA MOD (IN)	9+000.00	-35.80	181.450					S
A223	CONC HDWL FOR P DRAIN	9+025.00	33.90	181.300					N

IN STRUCTURE PAY ITEMS:

- SEWER OUTFL SEP (IN) = SEWER OUTFALL SEPARATOR SYSTEM (INDIANA) \*
- INL TYPE HA (IN) = INLET TYPE HA (INDIANA)
- INL T HA MOD (IN) = INLET TYPE HA, (MODIFIED) (INDIANA)
- INL T HA MOD WSD (IN) = INLET TYPE HA, (MODIFIED) WITH SLOTTED DRAIN (INDIANA)
- INL T HA SPL (IN) = INLET TYPE HA, (SPECIAL) (INDIANA)
- INL T HA SPL WSD (IN) = INLET TYPE HA (SPECIAL) WITH SLOTTED DRAIN (INDIANA)
- INL T H SPL (IN) = INLET TYPE H, (SPECIAL) WITH SLOTTED DRAIN (INDIANA)
- INL T H SPL WSD (IN) = INLET TYPE H, (SPECIAL) (INDIANA)
- MANHOLE (XX) (IN) = MANHOLE, (SIZE GRATE) (INDIANA)
- DROP MANHOLE C2 (IN) = DROP MANHOLE, C2 (INDIANA)
- MANHOLE C2 WSD (IN) = MANHOLE, C2 WITH SLOTTED DRAIN (INDIANA)
- PIPE END SCT 600 (IN) = PIPE END SECTION 600 mm (INDIANA)

\* SEE SPECIAL PROVISION


NOTE:  
1. UND DR = DIRECTION OF UNDER DRAIN CONNECTION  
2. FOR "D" SEE SHEET 291

REVISIONS	
NAME	DATE

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41

**DRAINAGE SCHEDULE**

SCALE DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE





ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	281
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

STORM SEWER PIPE SCHEDULE

ID	STR	PAY ITEM	STR	L	SLOPE	TBF
P1	A1	SS 1 RCP CL 4 300	A3	73.09	1.01	23.8
P2	A2	SS 1 RCP CL 4 300	A4	76.59	1.01	27.4
P3	A3	SS 1 RCP CL 4 450	A4	23.62	0.52	9.5
P4	A4	SS 1 RCP CL 4 450	A6	74.10	1.62	29.9
P5	A5	SS 1 RCP CL 4 300	A6	23.19	0.52	8.3
P6	A6	SS 1 RCP CL 4 450	A8	78.10	1.82	32.6
P7	A7	SS 1 RCP CL 4 300	A8	23.19	0.52	9.0
P8	A9	SS 1 RCP CL 4 600	A13	74.10	0.61	31.1
P9	A8	SS 1 RCP CL 4 600	A11	70.10	1.52	34.4
P10	A10	SS 1 RCP CL 4 300	A11	23.19	0.52	8.6
P11	A13	SS 1 RCP CL 4 600	A22	61.54	0.32	49.8
P12	A11	SS 1 RCP CL 4 600	A15	74.10	0.71	36.5
P13	A14	SS 1 RCP CL 4 300	A16	2.56	1.29	1.1
P14	A12	SS 2 RCP CL 3 750	A16	29.46	0.12	107.6
P16	A16	SS 2 RCP CL 3 750	A25	69.35	0.15	336.8
P17	A15	SS 1 RCP CL 3 750	A23	64.10	0.35	36.0
P18	A17	SS 1 RCP CL 4 300	A18	1.00		0.3
P19	A19	SS 1 RCP CL 4 300	A20	3.80	0.66	1.4
P20	A21	SS 1 RCP CL 4 300	A20	3.80	0.53	1.4
P21	A20	SS 1 RCP CL 4 375	A22	1.27	0.63	0.5
P22	A22	SS 1 RCP CL 3 750	A29	63.05	0.29	48.2
P23	A24	SS 1 RCP CL 4 300	A25	1.17	5.04	1.1
P24	A26	SS 2 RCP CL 3 750	A25	23.98	0.14	81.2
P25	A23	SS 1 RCP CL 3 750	A32	64.10	0.33	42.4
S25	A27	SS 1 RCP CL 4 300	A28	3.70	0.59	1.4
P26	A25	SS 2 RCP CL 3 1200	A38	157.10	0.12	760.7
P27	A29	SS 1 RCP CL 3 750	A36	103.17	0.30	106.7
P28	A30	SS 2 RCP CL 3 300	A31	3.12	3.37	6.9
P29	A32	SS 1 RCP CL 3 750	A35	43.85	0.83	24.4
P30	A33	SS 2 RCP CL 3 300	A34	2.75	14.55	2.8
P31	A38	SS 2 RCP CL 3 1200	A71	149.15	0.12	659.0
P32	A35	SS 1 RCP CL 3 750	A44	98.29	0.34	56.8
P33	A36	SS 1 RCP CL 3 750	A41	42.44	0.31	42.4
P34	A37	SS 1 RCP CL 4 300	A38	1.86	3.61	1.0
P35	A40	SS 1 RCP CL 4 300	A39	1.50	0.67	0.5
P36	A41	SS 1 RCP CL 3 750	A56	82.17	0.30	74.2
P37	A42	SS 2 RCP CL 3 300	A43	3.57	3.00	3.5
P38	A44	SS 1 RCP CL 3 900	A49	37.85	0.31	25.5
P39	A45	SS 2 RCP CL 3 300	A46	34.40	0.25	66.9
P41	A48	SS 1 RCP CL 4 300	A49	8.35	0.35	2.6
P42	A49	SS 1 RCP CL 3 900	A67	40.74	0.20	31.9
P43	A50	SS 2 RCP CL 3 300	A51	4.67	1.13	3.7
P44	A52	SS 1 RCP CL 4 300	A64	23.53	0.42	7.0
P45	A53	SS 1 RCP CL 4 300	A54	2.85	0.70	0.8
P46	A55	SS 1 RCP CL 4 300	A54	2.85	0.70	0.8
P47	A54	SS 1 RCP CL 4 300	A56	0.79	5.82	0.3
P48	A56	SS 1 RCP CL 3 750	A73	54.37	0.31	57.8
P49	A57	SS 1 RCP CL 4 300	A58	2.75	0.73	0.8
P50	A58	SS 1 RCP CL 4 300	A59	2.60	0.73	0.8
P51	A59	SS 1 RCP CL 4 375	A68	17.11	0.42	6.1
P52	A60	SS 2 RCP CL 3 300	A63	2.26	2.52	4.6
P53	A61	SS 1 RCP CL 4 300	A60	2.80	0.71	2.0
P54	A62	SS 1 RCP CL 4 300	A61	2.80	0.71	1.9
P56	A68	SS 1 RCP CL 4 375	A69	3.79	2.32	2.8
P57	A64	SS 1 RCP CL 4 375	A65	2.75	0.62	0.9
P58	A65	SS 1 RCP CL 4 375	A66	2.75	0.73	0.9
P59	A66	SS 1 RCP CL 4 450	A67	0.75	5.73	0.3
P60	A70	SS 1 RCP CL 4 300	A66	16.13	0.53	4.8
P61	A67	SS 1 RCP CL 3 900	A75	50.13	0.21	48.5
P62	A71	SS 2 RCP CL 3 1200	A74	24.70	0.14	107.3

STORM SEWER PIPE SCHEDULE

ID	STR	PAY ITEM	STR	L	SLOPE	TBF
R62		SS RG CL A 1 600		12.00		47.2
P63	A73	SS 1 RCP CL 3 750	A74	22.93	0.52	27.5
P64	A75	SS 1 RCP CL 3 900	A74	20.68	0.53	46.8
P65	A76	SS 1 RCP CL 4 375	A75	0.68	1.62	0.7
P66	A72	SS 1 RCP CL 4 300	A76	11.97	0.53	5.2
P67	A74	SS 2 RCP CL 2 1800	A82	117.18	0.12	563.5
P68	A78	SS 1 RCP CL 4 300	A79	22.65	0.84	14.1
P69	A79	SS 1 RCP CL 4 300	A80	3.23	1.83	2.3
P70	A77	SS 1 RCP CL 4 300	A81	53.39	0.51	27.8
P71	A81	SS 2 RCP CL 3 375	A85	53.39	0.51	49.7
P72	A82	SS 2 RCP CL 2 1950	A90	117.18	0.12	742.9
P73	A85	SS 1 RCP CL 4 450	A84	22.50	1.53	59.1
P74	A86	SS 1 RCP CL 4 300	A87	22.65	1.06	11.1
P75	A87	SS 2 RCP CL 3 300	A88	5.87	10.00	6.2
P76	A89	SS 1 RCP CL 4 300	A92	43.52	1.02	24.9
P77	A90	SS 2 RCP CL 2 1950	A93	18.89	0.14	19.8
R77	A93	SS 2 RCP CL 2 1950	A96	40.98	0.12	23.4
P78	A92	SS 2 RCP CL 3 375	A93	23.99	1.08	53.7
R78	A93	SS 2 RCP CL 3 1200	A93	9.00	0.27	62.5
P79	A97	SS 1 RCP CL 4 300	A96	23.11	1.49	14.6
P80	A96	SS 2 RCP CL 2 1950	A98	26.46	0.14	146.5
P81	A94	SS 1 RCP CL 4 300	A95	2.59	0.58	1.0
P82	A98	SS 1 RCP CL 1 1950	A99	11.85	0.13	
P83	A99	SS 1 RCP CL 1 1950	A101	9.65	0.13	
P84	A101	SS 1 RCP CL 1 1950	A103	66.70	0.15	38.0
P89	A111	PIPE T2 CIRC 600 (IN)	A110	5.00	0.80	
P90	A110	PIPE T2 CIRC 600 (IN)	A102	22.82	1.06	
P91	A102	PIPE T2 CIRC 600 (IN)	A103	62.29	0.88	
P92	A113	PIPE T2 CIRC 450 (IN)	A112	23.41	0.51	17.9
P94	A115	PIPE T2 CIRC 600 (IN)	A112	53.86	1.02	56.2
P95	A116	PIPE T2 CIRC 300 (IN)	A113	53.12	1.02	18.6
P96	A118	PIPE T2 CIRC 450 (IN)	A115	58.83	1.78	63.5
P97	A117	PIPE T2 CIRC 300 (IN)	A118	23.02	2.04	12.7
P98	A120	PIPE T2 CIRC 450 (IN)	A118	23.41	0.51	14.4
P99	A122	PIPE T2 CIRC 375 (IN)	A118	69.83	2.15	52.5
P100	A123	PIPE T2 CIRC 300 (IN)	A120	73.83	1.52	46.1
P101	A121	PIPE T2 CIRC 300 (IN)	A122	22.63	0.55	14.0
P110	A131	PIPE T2 CIRC 600 (IN)	A130	5.72	2.15	
P111	A133	PIPE T2 CIRC 600 (IN)	A131	25.42	1.02	28.7
P112	A132	PIPE T2 CIRC 300 (IN)	A133	23.02	0.62	8.8
P113	A135	PIPE T2 CIRC 450 (IN)	A133	56.83	2.04	26.1
P114	A134	PIPE T2 CIRC 300 (IN)	A135	25.03	0.94	9.2
R114	B135	PIPE T2 CIRC 300 (IN)	A135	25.03	0.44	7.1
P116	A136	PIPE T2 CIRC 300 (IN)	A137	25.03	0.76	9.9
P120	A141	PIPE T2 CIRC 600 (IN)	A140	56.61	0.50	
P121	A142	PIPE IN TRNLS 600 (IN)	A141	58.80	3.58	
P122	A145	PIPE T2 CIRC 600 (IN)	A142	3.26	3.31	15.8
P123	A144	PIPE T2 CIRC 600 (IN)	A145	22.68	0.55	97.9
P124	A143	PIPE T2 CIRC 300 (IN)	A144	25.47	0.66	10.0
P125	A147	PIPE T2 CIRC 600 (IN)	A144	48.86	0.23	143.6
P126	A146	PIPE T2 CIRC 300 (IN)	A147	25.47	0.66	10.8
P127	A149	PIPE T2 CIRC 450 (IN)	A147	51.86	0.35	65.2
P128	A148	PIPE T2 CIRC 300 (IN)	A149	25.47	0.64	10.0
R128	B149	PIPE T2 CIRC 300 (IN)	A149	25.03	2.91	6.9
P130	A155	PIPE T2 CIRC 300 (IN)	A156	25.47	1.04	14.6
P131	A156	PIPE T2 CIRC 375 (IN)	A158	73.87	2.54	77.3
P132	A157	PIPE T2 CIRC 300 (IN)	A158	27.45	1.20	17.1
R132	B158	PIPE T2 CIRC 300 (IN)	A158	25.03	2.58	6.9
P133	A158	PIPE T2 CIRC 450 (IN)	A161	73.87	2.23	74.2

STORM SEWER PIPE SCHEDULE

ID	STR	PAY ITEM	STR	L	SLOPE	TBF
P134	A162	PIPE T2 CIRC 300 (IN)	A161	23.02	0.85	12.2
P135	A159	PIPE T2 CIRC 300 (IN)	A160	8.45	1.78	4.9
P136	A160	PIPE T2 CIRC 300 (IN)	A165	63.57	1.23	43.6
P137	A161	PIPE T2 CIRC 600 (IN)	A163	53.86	1.33	39.7
P138	A164	PIPE T2 CIRC 300 (IN)	A165	10.67	0.44	5.5
P139	A163	PIPE T2 CIRC 600 (IN)	A168	48.86	1.02	30.6
P140	A165	PIPE T2 CIRC 300 (IN)	A167	37.86	0.26	18.1
P141	A166	PIPE T2 CIRC 300 (IN)	A167	12.36	0.53	3.4
P142	A170	PIPE T2 CIRC 300 (IN)	A168	25.71	1.01	8.7
P143	A167	PIPE T2 CIRC 600 (IN)	A172	41.28	0.26	12.0
P144	A168	PIPE T2 CIRC 750 (IN)	A173	43.68	0.41	28.5
P148	A176	PIPE T2 CIRC 300 (IN)	A177	16.22	1.04	6.2
P149	A172	PIPE T2 CIRC 600 (IN)	A178	44.74	0.21	10.4
P150	A178	PIPE T2 CIRC 600 (IN)	A177	8.56	0.30	3.3
P151	A173	PIPE T2 CIRC 750 (IN)	A181	48.86	0.41	33.9
P152	A180	PIPE T2 CIRC 300 (IN)	A184	47.90	0.51	14.5
P154	A177	PIPE T2 CIRC 600 (IN)	A197	104.38	0.35	138.9
P155	A181	PIPE T2 CIRC 750 (IN)	A187	34.85	0.31	26.1
P156	A184	PIPE T2 CIRC 300 (IN)	A185	5.09	2.57	2.1
P157	A186	PIPE T2 CIRC 300 (IN)	A185	5.59	0.61	1.9
P158	A185	PIPE T2 CIRC 450 (IN)	A183	12.91	0.55	10.7
P159	A183	PIPE T2 CIRC 450 (IN)	A190	19.06	0.53	21.6
P160	A187	PIPE T2 CIRC 750 (IN)	A188	2.83	0.71	2.2
P161	A189	PIPE T2 CIRC 300 (IN)	A188	2.83	0.71	2.1
P162	A188	PIPE T2 CIRC 750 (IN)	A190	19.11	0.32	25.1
P163	A190	PIPE T2 CIRC 900 (IN)	A192	19.57	0.37	37.3
P164	A192	PIPE T2 CIRC 900 (IN)	A206	56.84	0.36	127.1
P165	A191	PIPE T2 CIRC 300 (IN)	A198	40.35	0.31	10.7
P166	A199	PIPE T2 CIRC 300 (IN)	A198	3.41	0.68	1.0
P167	A198	PIPE T2 CIRC 450 (IN)	A197	11.55	0.56	14.6
P168	A200	PIPE T2 CIRC 300 (IN)	A199	3.28	0.67	0.9
P169	A201	PIPE T2 CIRC 300 (IN)	A197	10.55	0.55	
P170	A197	PIPE T2 CIRC 750 (IN)	A202	17.02	0.43	
P172	A193	PIPE T2 CIRC 300 (IN)	A192	22.16	1.04	13.0
P173	A196	PIPE T2 CIRC 300 (IN)	A203	29.71	1.04	32.0
P174	A203	PIPE T2 CIRC 300 (IN)	A204	2.43	0.82	3.0
P175	A205	PIPE T2 CIRC 300 (IN)	A204	2.83	0.71	3.4
P176	A204	PIPE T2 CIRC 375 (IN)	A206	20.55	0.52	34.2
P177	A206	PIPE T2 CIRC 900 (IN)	A209	69.61	0.24	166.6
P178	A207	PIPE T2 CIRC 300 (IN)	A208	40.26	0.62	43.1
P179	A212	PIPE T2 CIRC 600 (IN)	A208	20.20	0.67	11.0
P180	A213	PIPE T2 CIRC 600 (IN)	A212	2.83	0.71	1.1
P181	A214	PIPE T2 CIRC 600 (IN)	A213	2.83	0.71	0.9
P182	A215	PIPE T2 CIRC 300 (IN)	A210	23.83	0.59	12.0
P183	A216	PIPE T2 CIRC 300 (IN)				

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	282
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

DRAINAGE REMOVAL ITEMS SCHEDULE

PAY ITEM	STA	OFF
DRAINAGE STR REMOVED	6+845.86	0.00
DRAINAGE STR REMOVED	6+891.04	0.00
REMOV INLETS	6+908.87	-13.47
DRAINAGE STR REMOVED	6+937.58	0.00
REMOV INLETS	6+954.25	-13.48
DRAINAGE STR REMOVED	6+983.63	0.00
REMOV INLETS	6+998.23	-13.48
DRAINAGE STR REMOVED	7+028.88	0.00
REMOV INLETS	7+034.06	-13.56
REMOV CATCH BAS	7+073.99	1.11
REMOV INLETS	7+078.68	-13.54
DRAINAGE STR REMOVED	7+120.83	0.00
REMOV INLETS	7+132.94	-13.64
REMOV CATCH BAS	7+150.00	-28.61
REMOV INLETS	7+164.38	1.05
REMOV INLETS	7+164.60	-0.79
DRAINAGE STR REMOVED	7+165.75	0.00
REMOV INLETS	7+169.15	-13.83
REMOV CATCH BAS	7+200.00	-28.38
DRAINAGE STR REMOVED	7+211.56	0.00
REMOV INLETS	7+222.77	-13.89
REMOV CATCH BAS	7+250.00	-29.24
REMOV INLETS	7+254.98	-13.78
DRAINAGE STR REMOVED	7+257.42	0.00
REMOV CATCH BAS	7+300.00	-30.57
DRAINAGE STR REMOVED	7+303.30	0.00
DRAINAGE STR REMOVED	7+348.82	0.00
REMOV CATCH BAS	7+349.71	23.97
REMOV CATCH BAS	7+350.00	-32.98
DRAINAGE STR REMOVED	7+394.10	0.00
REMOV CATCH BAS	7+400.00	-27.60
REMOV CATCH BAS	7+430.03	23.46
DRAINAGE STR REMOVED	7+439.82	0.00
REMOV CATCH BAS	7+450.00	-26.60
REMOV CATCH BAS	7+464.48	-26.18
DRAINAGE STR REMOVED	7+470.76	0.00
DRAINAGE STR REMOVED	7+516.17	0.00
REMOV MANHOLES	7+528.34	-23.01
REMOV CATCH BAS	7+557.85	21.33
DRAINAGE STR REMOVED	7+561.82	0.00
REMOV CATCH BAS	7+562.81	1.57
REMOV CATCH BAS	7+563.12	-0.87
REMOV INLETS	7+575.51	-23.69
REMOV CATCH BAS	7+579.60	-23.75
REMOV INLETS	7+583.52	-23.67
DRAINAGE STR REMOVED	7+597.88	0.00
REMOV CATCH BAS	7+602.24	19.50
REMOV INLETS	7+613.50	1.70
REMOV CATCH BAS	7+623.28	1.78
DRAINAGE STR REMOVED	7+624.92	0.00

DRAINAGE REMOVAL ITEMS SCHEDULE

PAY ITEM	STA	OFF
REMOV INLETS	7+625.00	-25.70
REMOV CATCH BAS	7+635.00	1.83
REMOV INLETS	7+659.83	2.00
REMOV CATCH BAS	7+669.84	2.00
DRAINAGE STR REMOVED	7+672.51	0.00
REMOV INLETS	7+679.86	2.00
REMOV INLETS	7+700.00	-25.25
REMOV INLETS	7+703.50	2.43
REMOV CATCH BAS	7+713.52	2.61
DRAINAGE STR REMOVED	7+717.94	0.00
REMOV INLETS	7+723.54	2.74
FILL MANHOLES	7+725.00	-21.15
REMOV INLETS	7+750.44	3.21
REMOV CATCH BAS	7+760.46	3.46
DRAINAGE STR REMOVED	7+763.68	0.00
REMOV INLETS	7+770.49	3.70
REMOV CATCH BAS	7+795.00	4.07
REMOV CATCH BAS	7+806.05	4.22
DRAINAGE STR REMOVED	7+808.31	0.00
REMOV INLETS	7+816.08	4.35
FILL MANHOLES	7+825.00	-21.59
REMOV INLETS	7+843.80	4.66
REMOV INLETS	7+848.76	22.81
REMOV INLETS	7+850.00	-24.48
REMOV CATCH BAS	7+854.12	4.58
REMOV INLETS	7+863.87	4.56
REMOV INLETS	7+890.00	-24.68
REMOV CATCH BAS	7+890.20	4.25
REMOV CATCH BAS	7+898.28	1.37
REMOV CATCH BAS	7+898.39	-0.62
REMOV CATCH BAS	7+899.43	4.08
DRAINAGE STR REMOVED	7+899.45	0.00
REMOV INLETS	7+909.48	3.83
REMOV INLETS	7+928.44	3.34
REMOV MANHOLES	7+934.61	-43.45
REMOV CATCH BAS	7+938.51	3.15
DRAINAGE STR REMOVED	7+938.51	0.00
REMOV MANHOLES	7+939.54	-25.53
REMOV MANHOLES	7+942.57	4.38
REMOV MANHOLES	7+966.04	-53.04
REMOV MANHOLES	7+951.45	1.41
REMOV INLETS	7+988.25	17.70
REMOV INLETS	7+989.89	21.47
REMOV MANHOLES	7+995.00	4.97
REMOV INLETS	8+023.02	17.55
REMOV CATCH BAS	8+023.56	3.77
REMOV INLETS	8+023.74	-0.45
REMOV INLETS	8+023.80	0.98
REMOV INLETS	8+024.40	-17.64
REMOV INLETS	8+033.86	3.83

DRAINAGE REMOVAL ITEMS SCHEDULE

PAY ITEM	STA	OFF
REMOV CATCH BAS	8+110.00	3.79
REMOV INLETS	8+114.78	-0.88
REMOV INLETS	8+114.99	0.83
REMOV INLETS	8+115.35	17.56
REMOV CATCH BAS	8+117.09	3.79
REMOV INLETS	8+127.09	3.84
REMOV INLETS	8+189.51	-17.94
REMOV INLETS	8+195.63	17.58
REMOV CATCH BAS	8+259.15	-3.74
REMOV INLETS	8+260.15	0.73
REMOV INLETS	8+260.25	-0.75
REMOV INLETS	8+265.38	17.57
REMOV INLETS	8+267.00	22.02
REMOV INLETS	8+269.15	-3.75
REMOV INLETS	8+326.22	-3.64
REMOV INLETS	8+336.12	0.88
REMOV INLETS	8+336.03	-0.79
REMOV CATCH BAS	8+336.21	-3.64
REMOV INLETS	8+346.22	-3.64
REMOV INLETS	8+400.87	-3.76
REMOV CATCH BAS	8+410.88	-3.75
REMOV INLETS	8+412.01	-0.79
REMOV INLETS	8+412.11	0.79
REMOV INLETS	8+661.18	1.00
REMOV INLETS	8+671.06	0.96
REMOV INLETS	8+671.29	-0.51
REMOV INLETS	8+681.17	1.03
REMOV INLETS	8+719.17	1.00
REMOV INLETS	8+733.94	-0.71
REMOV INLETS	8+828.59	3.04
REMOV INLETS	8+838.52	0.85
REMOV CATCH BAS	8+838.56	3.08
REMOV INLETS	8+838.63	-0.87
REMOV INLETS	8+848.56	3.00
REMOV INLETS	8+915.11	-0.89
REMOV INLETS	8+915.14	0.83
REMOV CATCH BAS	8+915.33	2.94
REMOV CATCH BAS	8+925.32	3.08
REMOV INLETS	8+976.36	-29.69
REMOV INLETS	9+010.79	2.93
REMOV CATCH BAS	9+020.77	3.42
REMOV INLETS	9+020.96	-1.02
REMOV INLETS	9+021.02	0.83
REMOV INLETS	9+021.53	-29.83
REMOV MANHOLES	9+021.89	-32.65
REMOV INLETS	9+022.27	-17.63
REMOV CATCH BAS	9+030.76	2.94
REMOV INLETS	9+068.79	-35.55
REMOV INLETS	9+073.26	2.85
INLETS ADJUST	9+081.33	33.97

DRAINAGE REMOVAL ITEMS SCHEDULE

PAY ITEM	STA	OFF
REMOV INLETS	9+081.50	31.11
REMOV INLETS	9+081.58	17.34
REMOV CATCH BAS	9+083.25	2.88
REMOV INLETS	9+083.34	-0.86
REMOV INLETS	9+083.44	0.89
REMOV INLETS	9+093.23	2.86
REMOV INLETS	9+140.08	34.15
REMOV INLETS	9+145.98	-21.12
REMOV INLETS	9+146.09	-22.82
REMOV INLETS	9+148.92	2.78
REMOV CATCH BAS	9+158.91	2.79
REMOV INLETS	9+158.94	0.80
REMOV INLETS	9+158.98	-1.11
REMOV INLETS	9+168.89	2.77
REMOV INLETS	9+180.78	21.06
REMOV MANHOLES	9+183.69	35.66
REMOV INLETS	9+191.77	-21.59
REMOV INLETS	9+191.84	-22.27
REMOV MANHOLES	9+231.55	-40.94
REMOV INLETS	9+235.12	-0.32
REMOV INLETS	9+235.13	0.68
REMOV INLETS	9+237.49	-21.57
REMOV INLETS	9+237.49	-22.24
REMOV CATCH BAS	9+252.12	-46.02
REMOV MANHOLES	9+282.33	34.22
REMOV INLETS	9+283.02	-21.52
REMOV INLETS	9+283.11	-22.18
REMOV INLETS	9+283.57	22.18
REMOV INLETS	9+283.60	21.18
REMOV INLETS	9+316.19	21.57
REMOV INLETS	9+316.30	22.26
REMOV INLETS	9+317.14	0.34
REMOV INLETS	9+317.14	-0.33
REMOV INLETS	9+319.28	-21.24
REMOV INLETS	9+319.31	-22.24
REMOV INLETS	9+349.32	-21.26
REMOV INLETS	9+349.34	-22.26
REMOV INLETS	9+353.17	0.97
REMOV INLETS	9+353.23	-0.51
REMOV INLETS	9+356.57	22.92
REMOV INLETS	9+356.97	20.90

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

DRAINAGE SCHEDULE

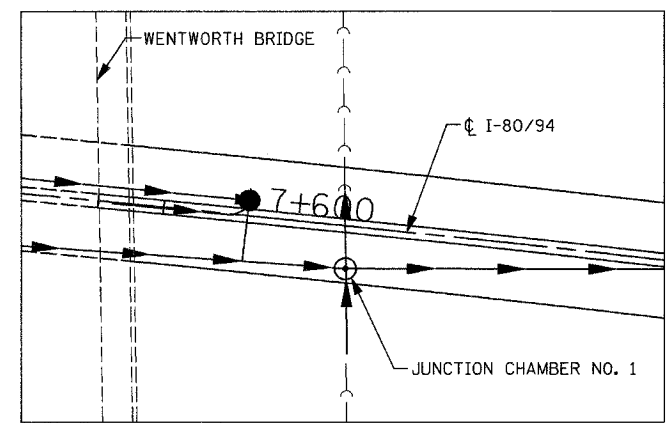
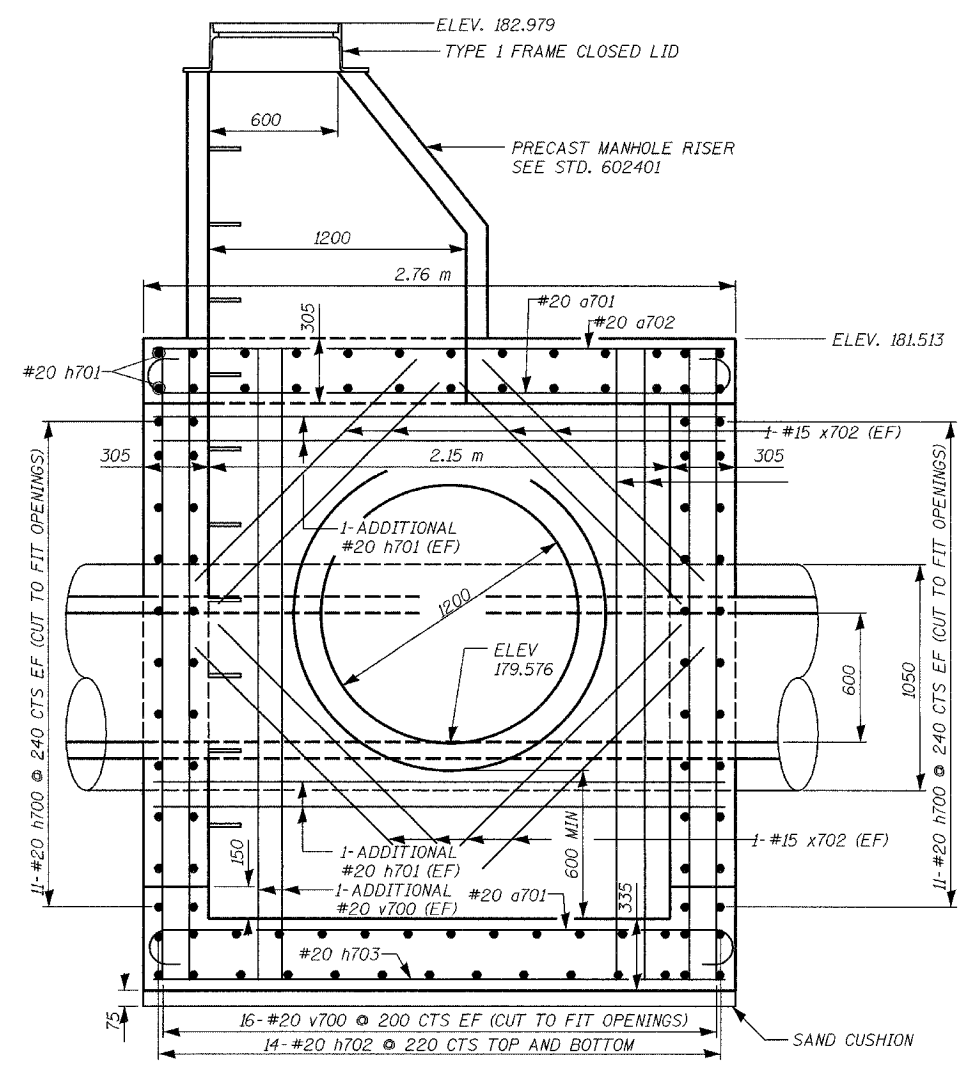
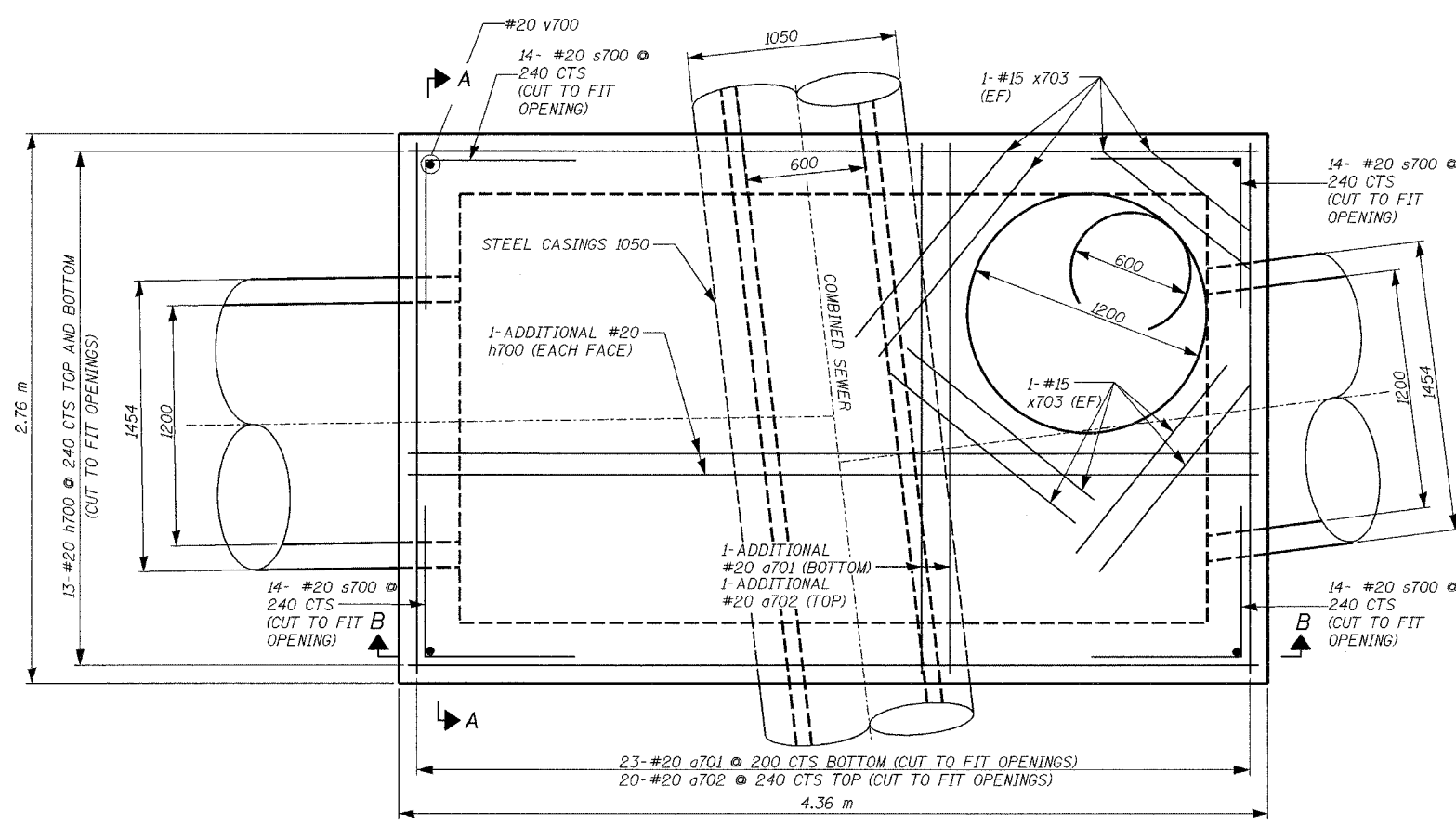
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REVISIONS	
NAME	DATE

ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	283
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**DESIGN STRESSES**  
 CONCRETE  $f'_c = 24 \text{ MPa}$   
 REINFORCEMENT  $f_y = 400 \text{ MPa}$

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6 (KINGERY EXPRESSWAY)  
 BURNAM ROAD TO US 41 (CALUMET AVE)

**JUNCTION CHAMBER NO. 1**  
**SHEET 1 OF 2**

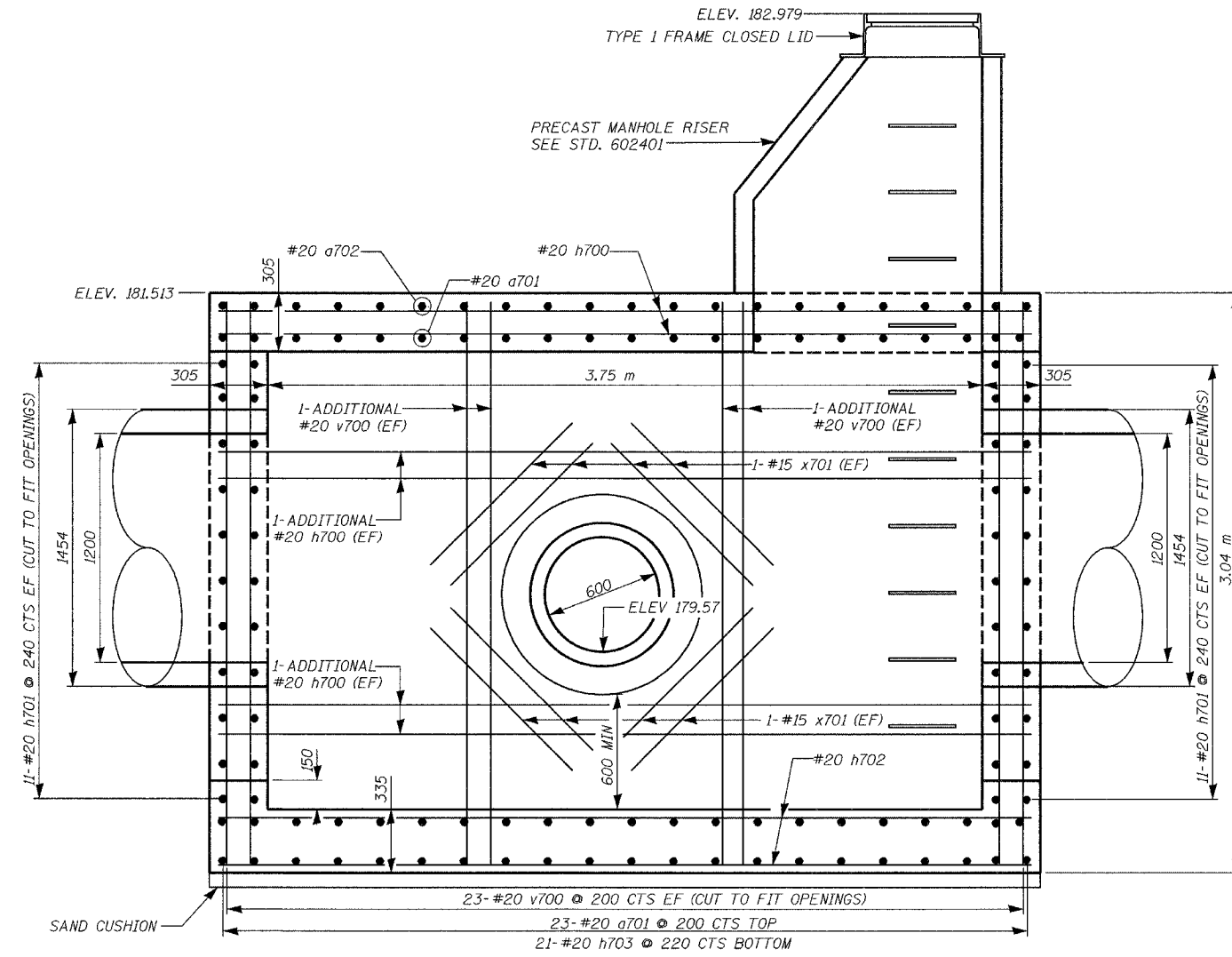
REVISIONS	
NAME	DATE

SCALE NTS  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY TAE



ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	284
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

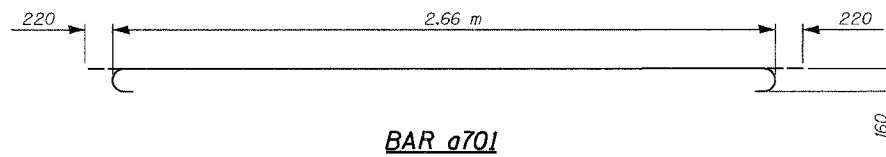
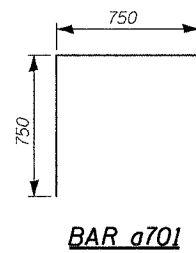


**SECTION B-B**

FURNISH AND INSTALL CAST  
IRON STEPS, STD 602701

**BAR LIST**

Bar	No.	Size	Length (m)	Shape
a701	48	#20	3.10	—
a702	22	#20	2.66	—
h700	90	#20	4.26	—
h701	60	#20	2.66	—
h702	28	#20	4.21	—
h703	21	#20	2.61	—
s700	56	#20	1.50	┌
v700	184	#20	2.92	—
x701	32	#15	1.25	—
x702	32	#15	1.65	—
x703	16	#15	1.40	—



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6 (KINGERY EXPRESSWAY)  
BURNAM ROAD TO US 41 (CALUMET AVE)

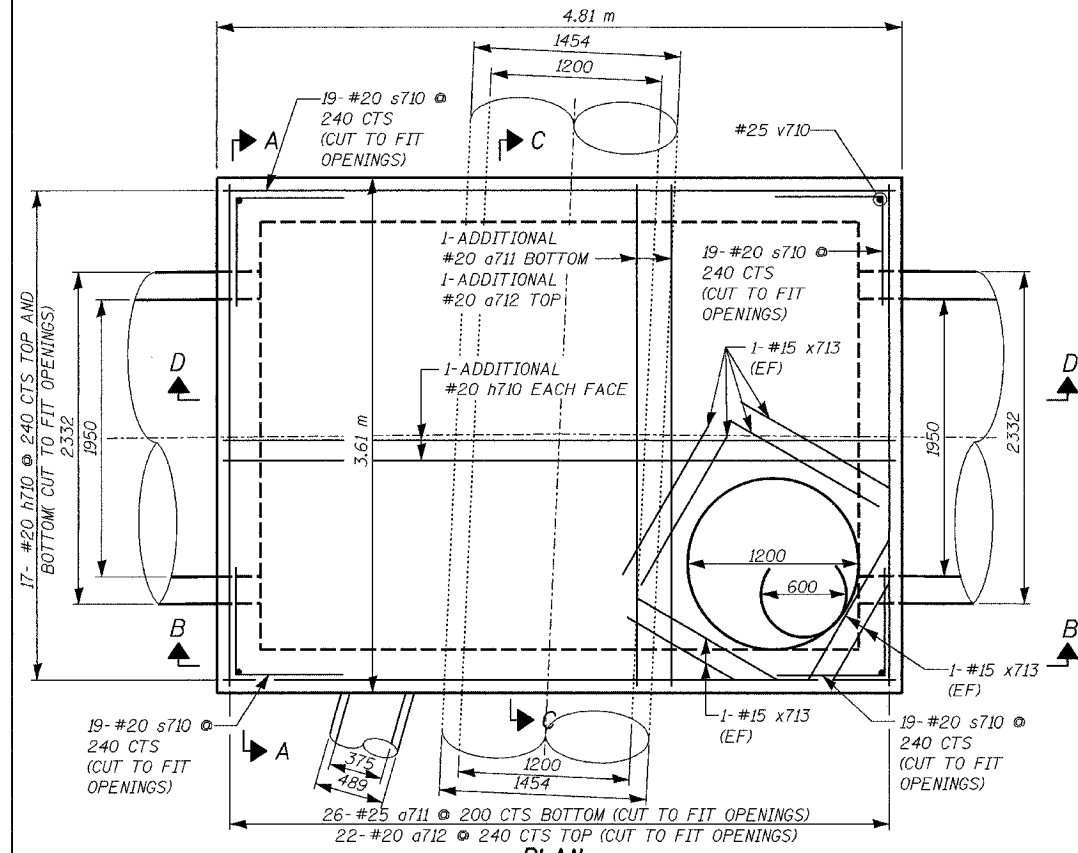
**JUNCTION CHAMBER NO. 1**  
**SHEET 2 OF 2**

SCALE NTS  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

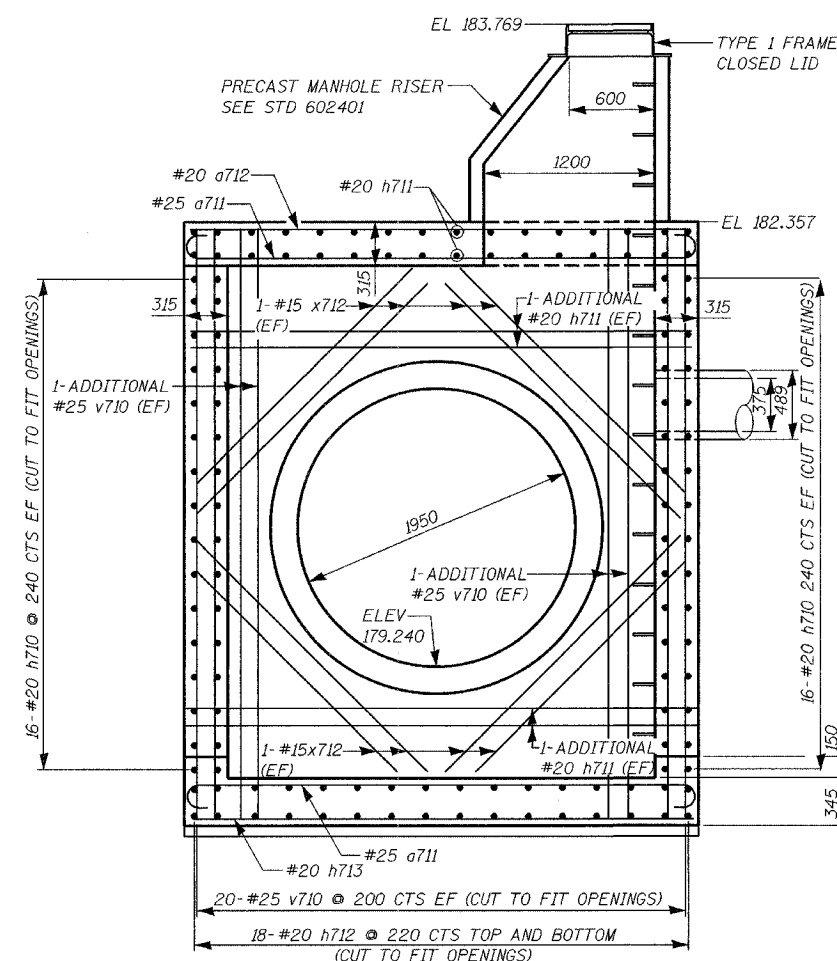


ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

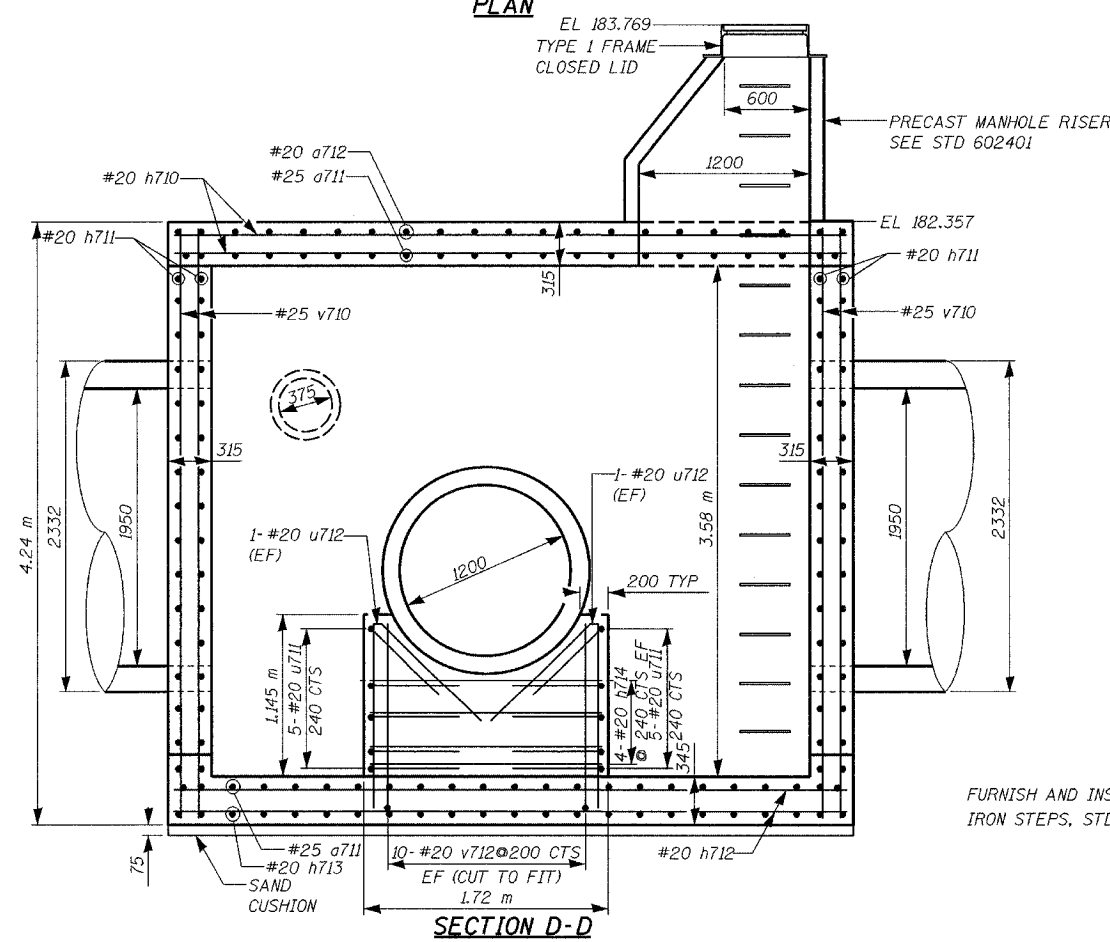
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**PLAN**



**SECTION A-A**



**SECTION D-D**

FURNISH AND INSTALL CAST IRON STEPS, STD 602701

**DESIGN STRESSES**

CONCRETE  $f'_c = 24 \text{ MPa}$   
REINFORCEMENT  $f_y = 400 \text{ MPa}$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6 (KINGERY EXPRESSWAY)  
BURNAM ROAD TO US 41 (CALUMET AVE)

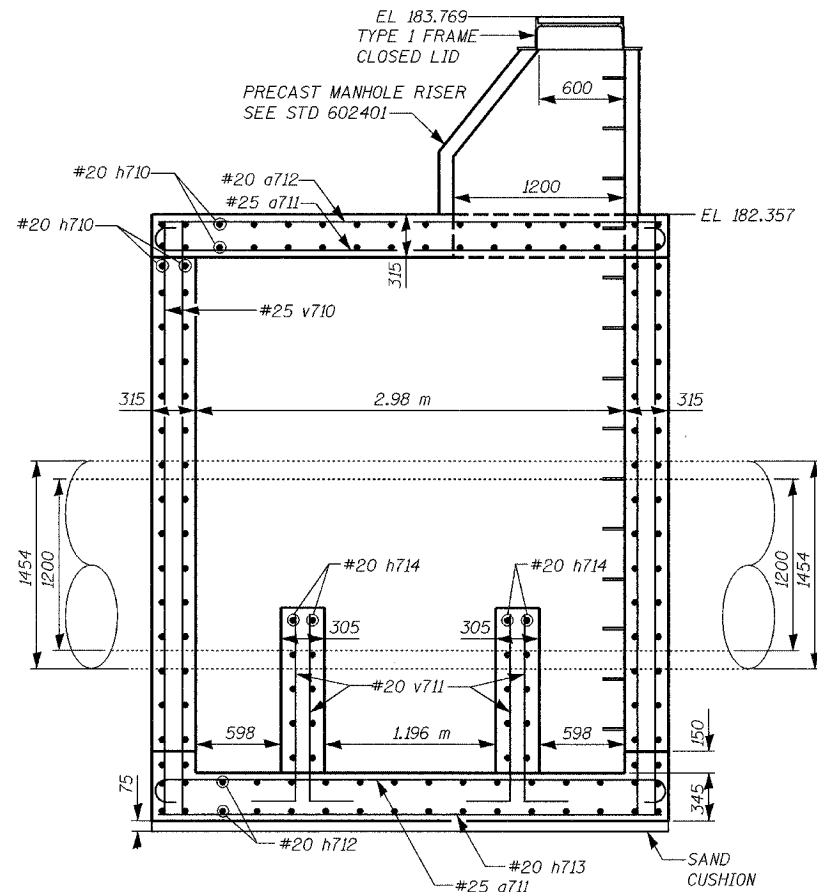
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SHEET 1 OF 2**

SCALE NTS  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

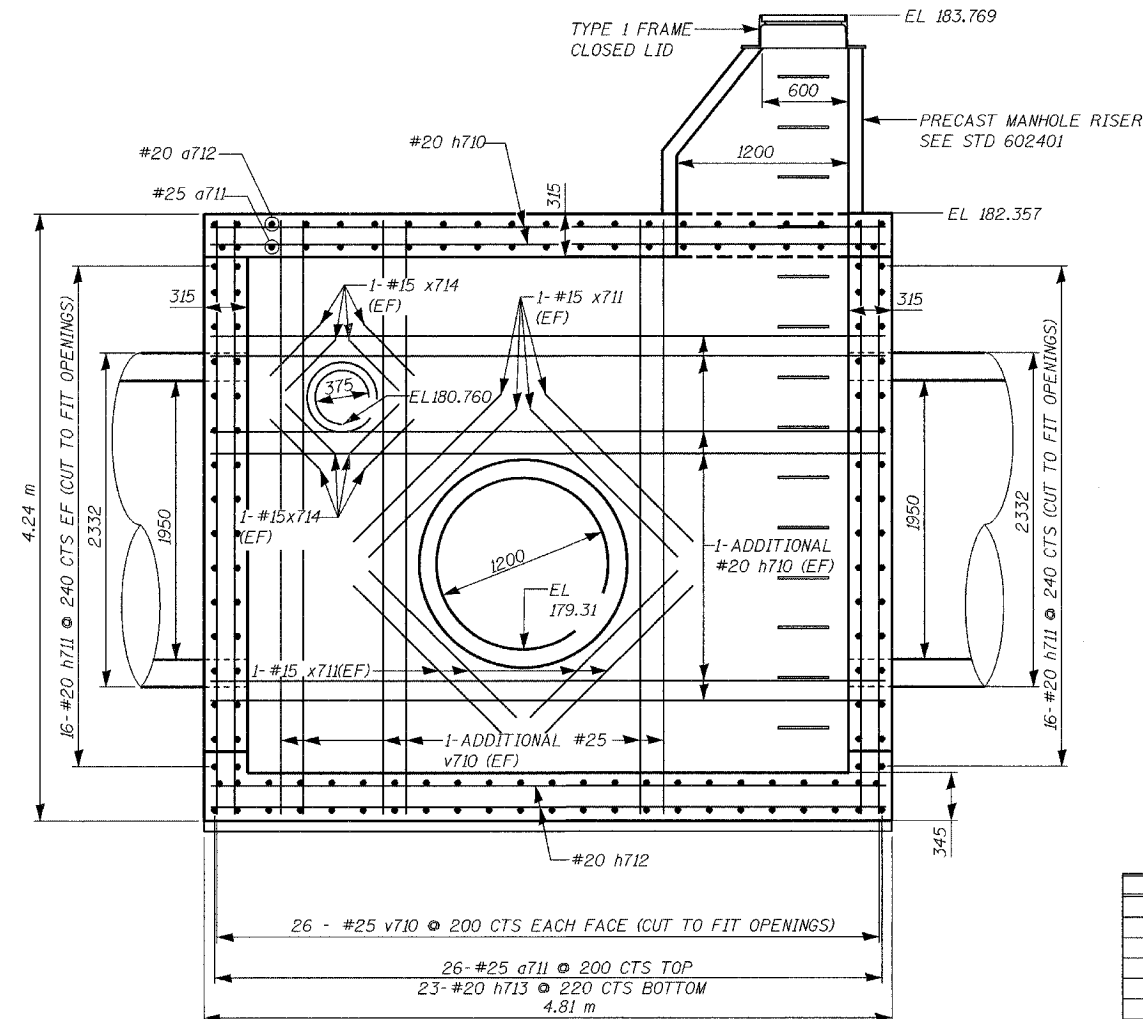


ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 286
STA. FED. ROAD DIST. NO.	TO STA. ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



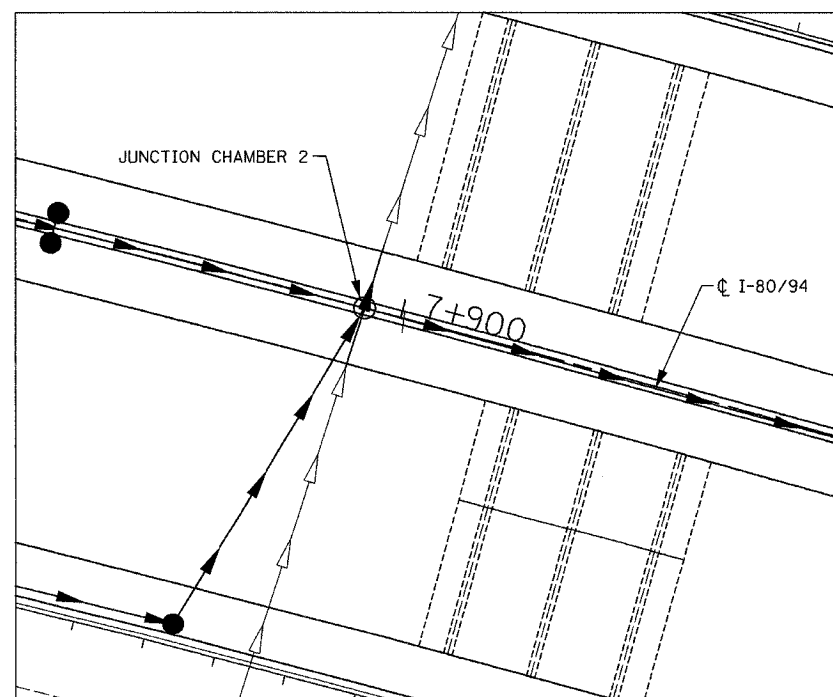
SECTION C-C



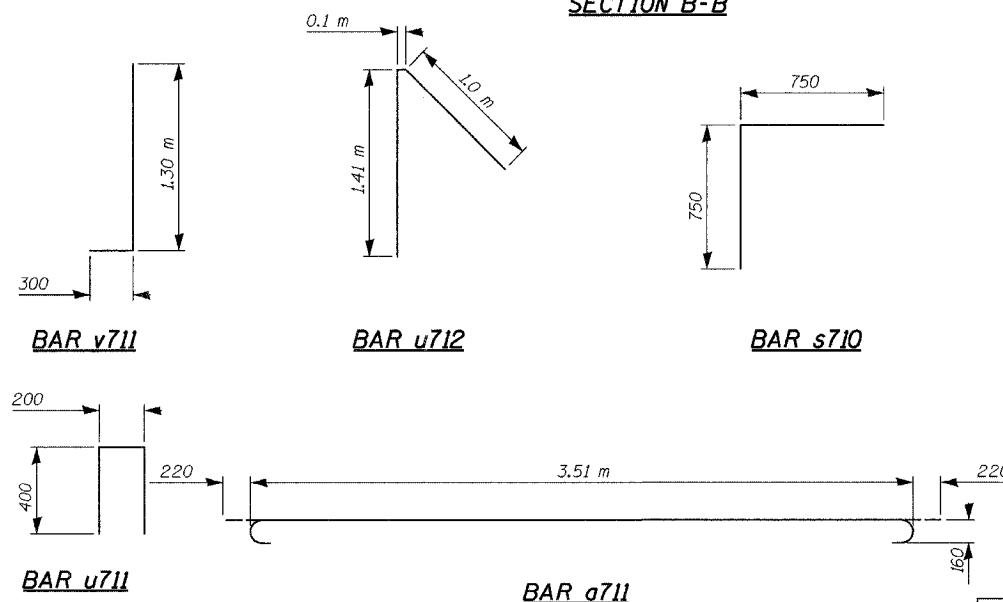
SECTION B-B

BAR LIST

Bar	No.	Size	Length (m)	Shape
a711	54	#25	3.95	—
a712	24	#20	3.51	—
h710	122	#20	4.71	—
h711	80	#20	3.51	—
h712	36	#20	4.66	—
h713	23	#20	3.46	—
h714	16	#20	1.62	—
s710	76	#20	1.50	—
u711	20	#20	1.00	—
u712	8	#20	2.51	—
v710	220	#25	4.12	—
v711	40	#20	1.61	—
x711	32	#15	1.65	—
x712	32	#15	2.53	—
x713	16	#15	1.40	—
x714	16	#15	0.69	—



LOCATION PLAN



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6 (KINGERY EXPRESSWAY)  
BURNAM ROAD TO US 41 (CALUMET AVE)

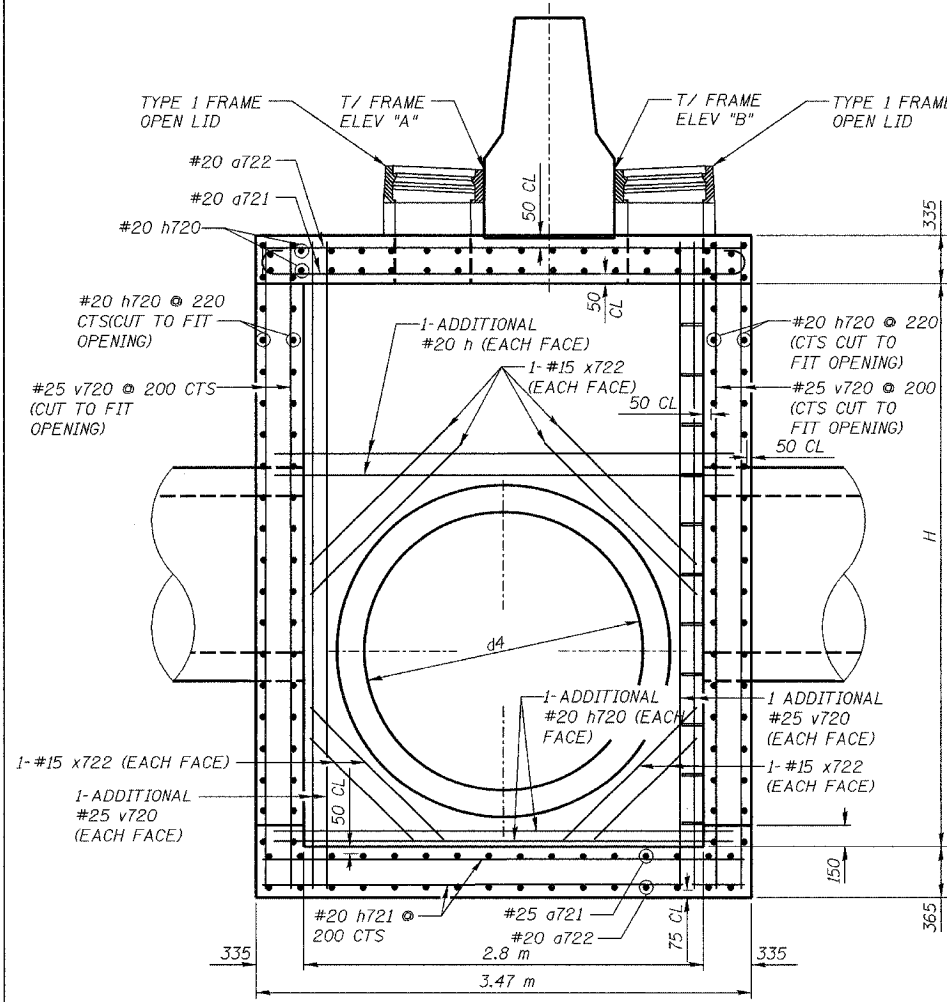
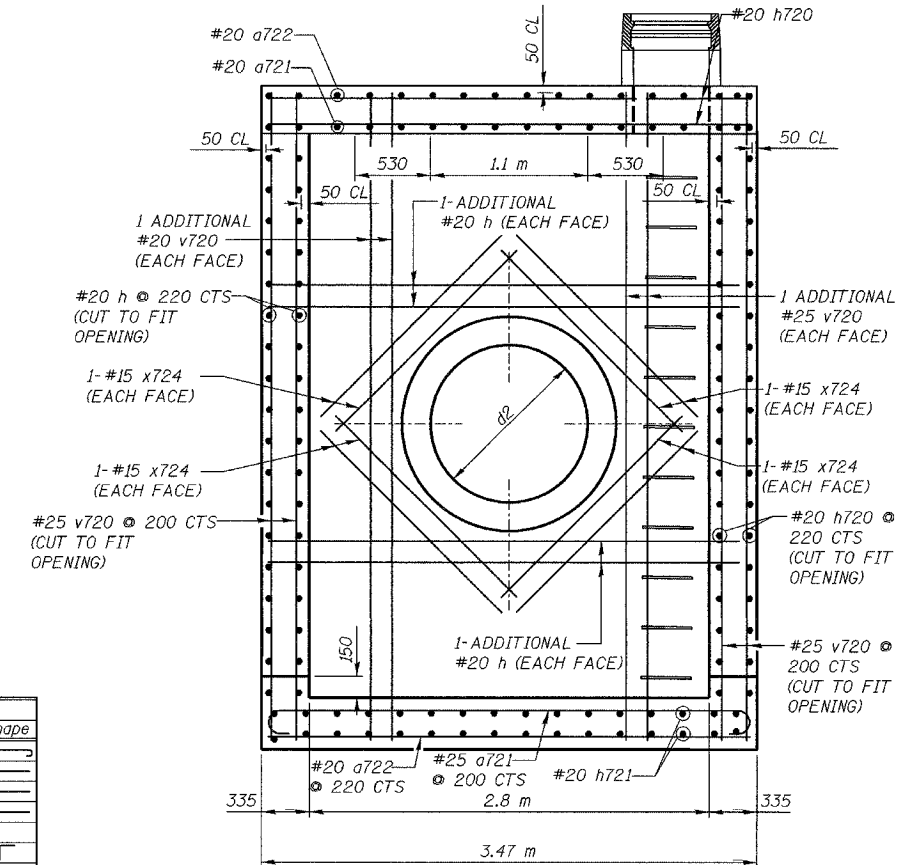
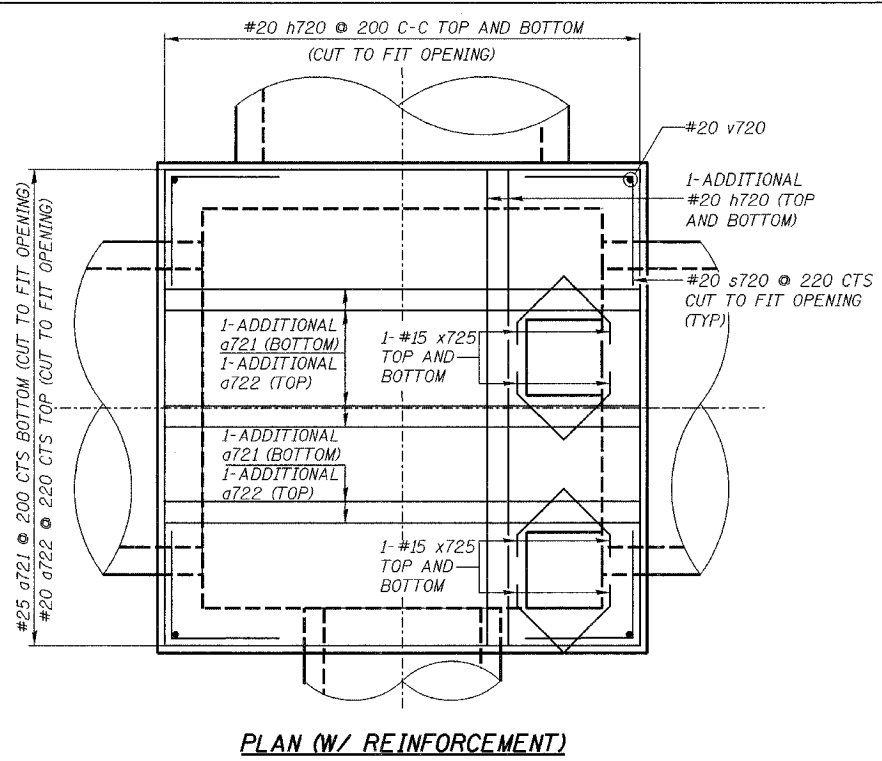
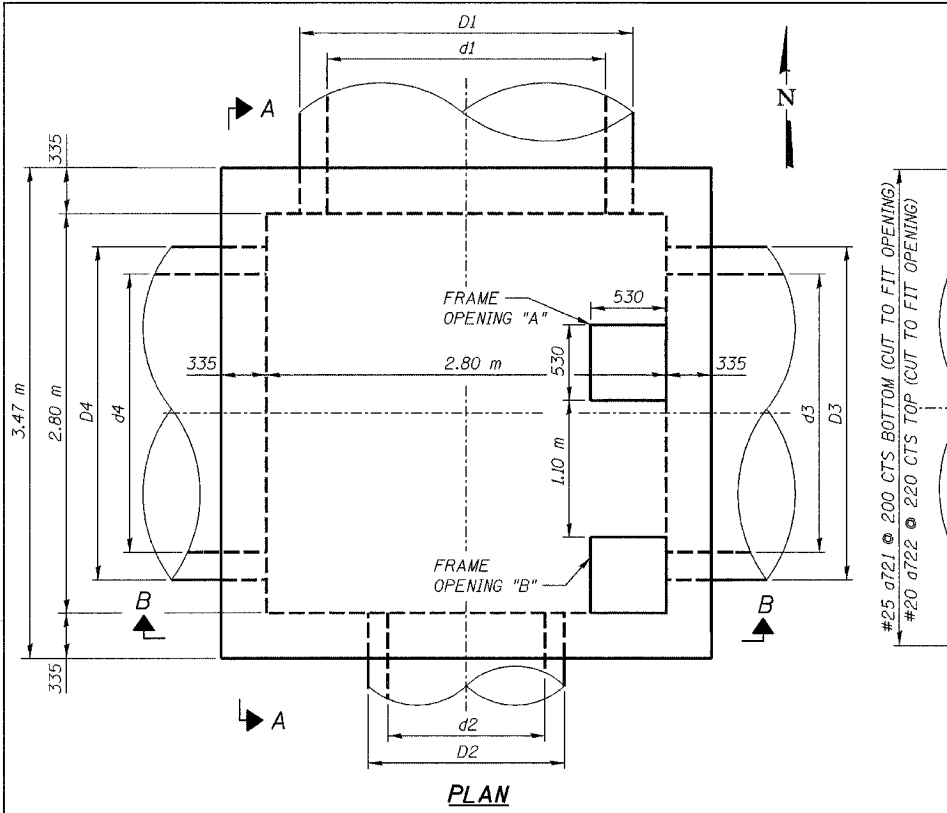
JUNCTION CHAMBER NO. 2  
SHEET 2 OF 2

SCALE NTS  
DATE 07/05  
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AMERICAN  
CONSULTING ENGINEERS

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 287
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		INDOT DES. NO. 0100987		
CONTRACT NO. 62114				

ALL DIMENSIONS IN MILLIMETERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

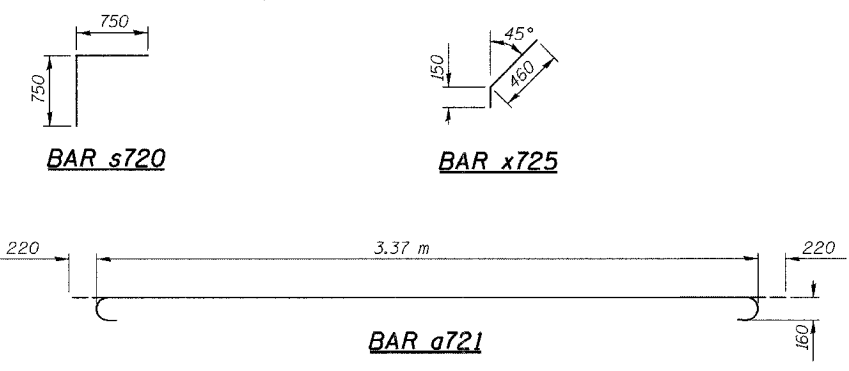


**BAR LIST**

BAR	SIZE	STR NO	NO.	LENGTH(m)	STR NO	NO.	LENGTH(m)	STR NO	NO.	LENGTH(m)	STR NO	NO.	LENGTH(m)	Shape
a721	#25	A74	44	3.81	A82	44	3.81	A90	44	3.81	A96	44	3.81	—
a722	#20	A74	23	3.37	A82	23	3.37	A90	23	3.37	A96	23	3.37	—
h720	#20	A74	146	3.37	A82	170	3.37	A90	194	3.37	A96	202	3.37	—
h721	#20	A74	57	3.32	A82	57	3.32	A90	57	3.32	A96	57	3.32	—
s720	#20	A74	48	1.50	A82	60	1.50	A90	72	1.50	A96	76	1.50	┌
v720	#25	A74	184	2.18	A82	184	2.94	A90	184	3.54	A96	184	3.82	—
x721	#15	A74	16	1.13	N/A	N/A	N/A	N/A	16	2.53	N/A	N/A	N/A	—
x722	#15	A74	16	1.30	N/A	N/A	N/A	N/A	16	0.60	N/A	N/A	N/A	—
x723	#15	A74	16	2.53	16	2.53	16	2.53	16	N/A	N/A	N/A	N/A	—
x724	#15	A74	16	1.65	16	2.53	16	2.53	16	2.53	16	2.53	16	—
x725	#15	A74	16	0.61	16	0.61	16	0.61	16	0.61	16	0.61	16	—

**STRUCTURE DETAILS AND DIMENSIONS**

STR. NO.	LOCATION	PIPE 1 (N)		PIPE 2 (S)		PIPE 3 (E)		PIPE 4 (W)		T/FRAME ELEV "A"	T/FRAME ELEV "B"	T/SLAB ELEV	HEIGHT "H"				
		d1	INVERT	d2	INVERT	d3	INVERT	d4	INVERT								
A74	7+635.00, 0.00 m LT	750	180.480	928	900	180.213	1104	1950	179.542	2332	1200	179.542	1454	182.494	182.939	181.984	2.30
A82	7+755.00, 0.00 m LT	-	-	-	-	-	-	1950	179.404	2332	1950	179.404	2332	183.207	183.306	182.607	3.06
A90	7+875.00, 0.00 m LT	-	-	-	-	-	-	1950	179.266	2332	1950	179.266	2332	183.671	183.673	183.071	3.66
A96	7+942.00, 0.00 m LT	1950	179.187	2332	300	181.950	402	-	-	-	1950	179.189	2332	183.877	183.878	183.277	3.95



**DESIGN STRESSES**  
 CONCRETE  $f'_c = 24 \text{ MPa}$   
 REINFORCEMENT  $f_y = 400 \text{ MPa}$

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**JUNCTION CHAMBER NO. 3**

SCALE NTS  
 DATE 07/05

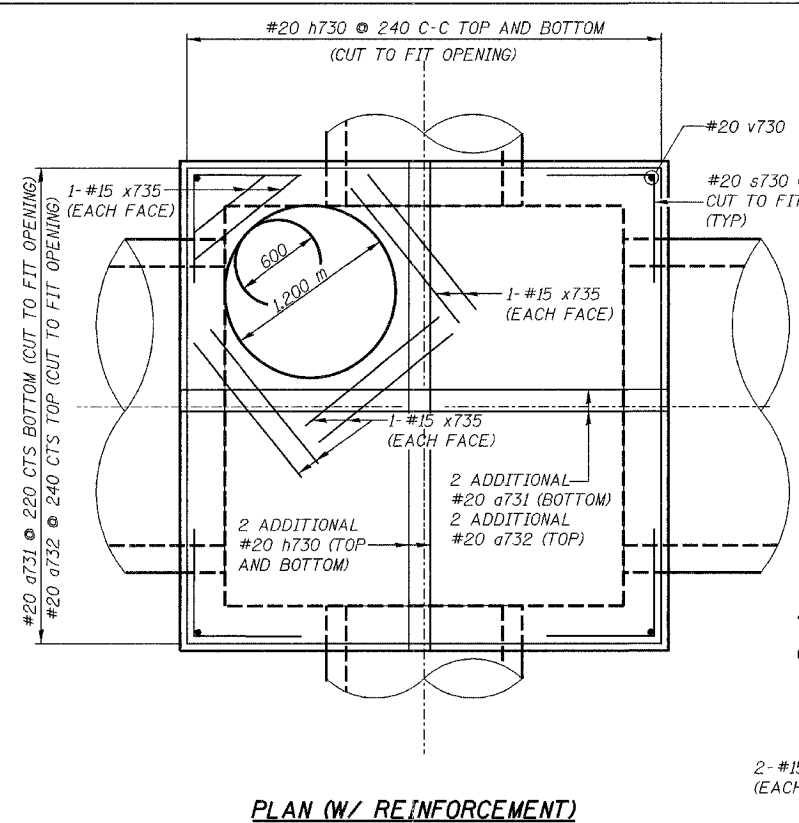
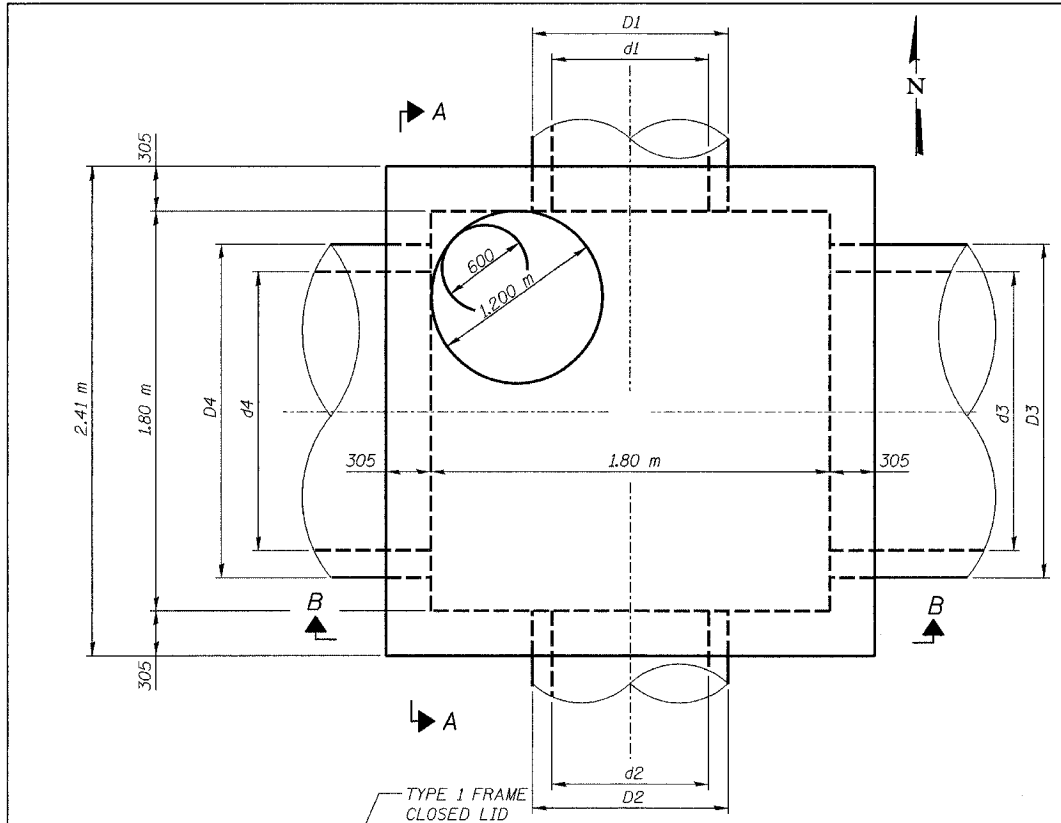
DRAWN BY ACE/CAD  
 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS

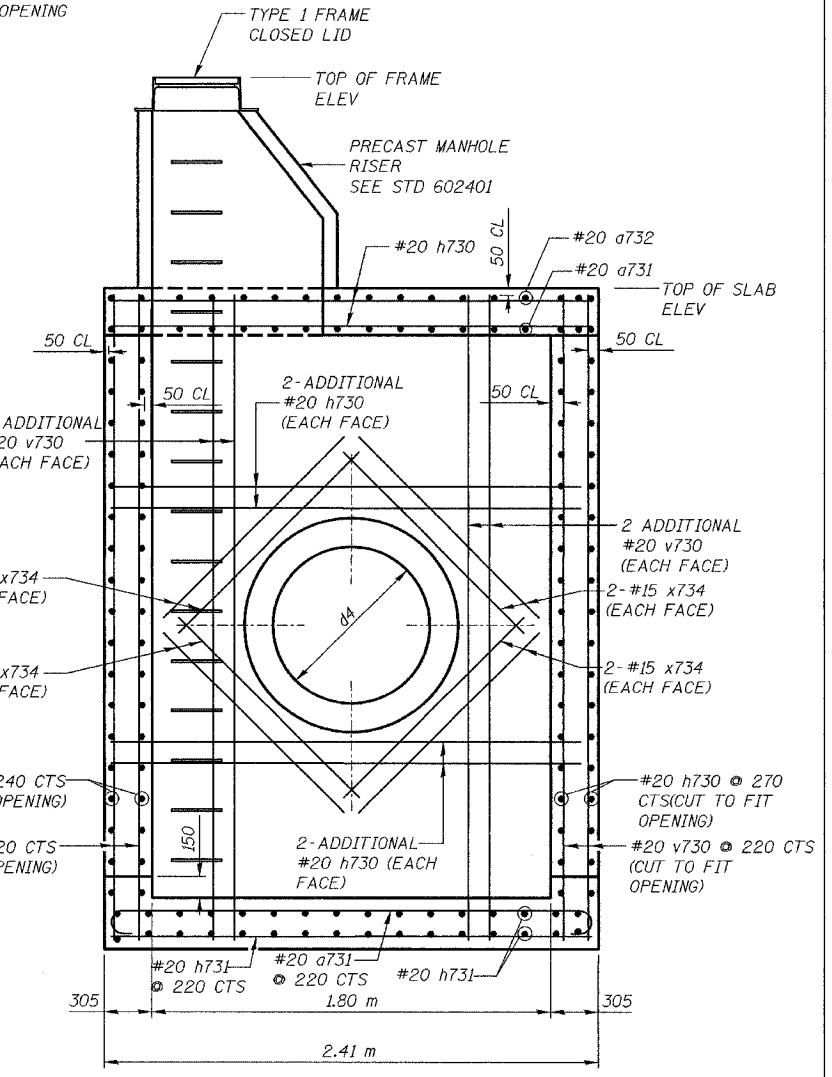
FURNISH AND INSTALL CAST IRON STEPS, STD 602701

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	288
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

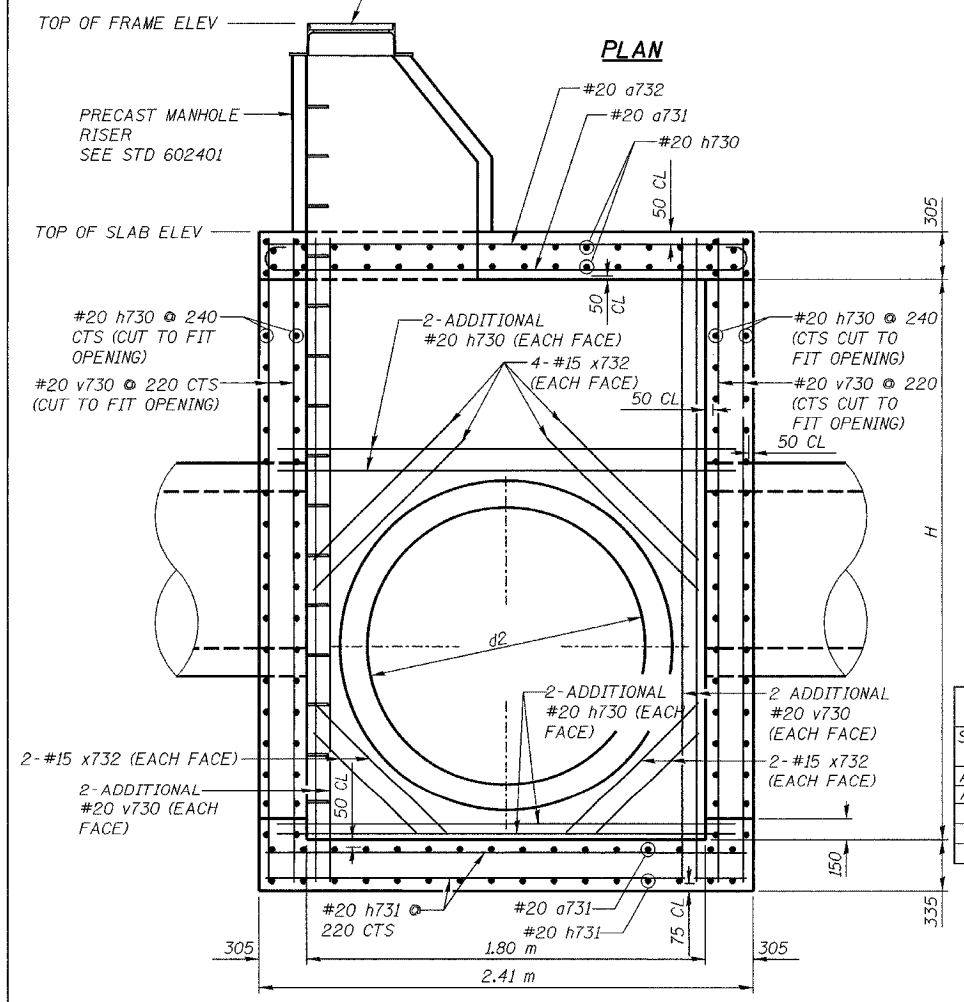
ALL DIMENSIONS IN MILLIMETERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE



PLAN (W/ REINFORCEMENT)



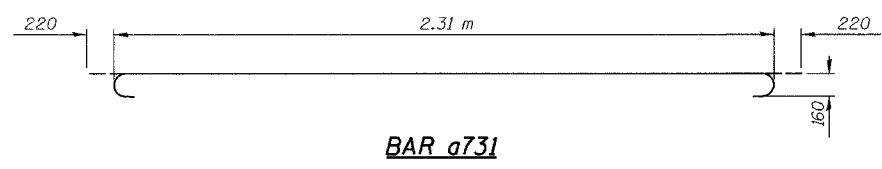
SECTION A-A



SECTION B-B

**BAR LIST**

BAR	SIZE	STR NO	A25	STR NO	A38	Shape
		NO.	LENGTH(m)	NO.	LENGTH(m)	
a731	#20	26	2.75	26	2.75	—
a732	#20	14	2.31	14	2.31	—
h730	#20	124	2.31	100	2.31	—
h731	#20	36	2.26	36	2.26	—
s730	#20	40	1.50	32	1.50	┌
v730	#20	128	2.03	128	1.52	—
x731	#15	16	0.60	16	0.60	—
x732	#15	16	1.13	N/A	N/A	—
x733	#15	16	1.65	16	1.65	—
x734	#15	16	1.13	16	1.65	—
x735	#15	16	1.40	16	1.40	—



BAR a731

**STRUCTURE DETAILS AND DIMENSIONS**

STR. NO.	LOCATION	PIPE 1 (N)		PIPE 2 (S)		PIPE 3 (E)		PIPE 4 (W)		T/FRAME. ELEV	T/SLAB ELEV	HEIGHT "H"				
		d1	INVERT	d2	INVERT	d3	INVERT	d4	INVERT							
A25	7+296.00, 2.35 m RT	300	181.570	402	750	179.950	928	1200	179.950	1454	750	179.955	928	183.698	182.278	2.15
A38	7+455.00, 2.28 m RT	300	180.604	402	-	-	-	1200	179.759	1454	1200	179.759	1454	183.218	181.577	1.64

FURNISH AND INSTALL CAST IRON STEPS, STD 602701

**DESIGN STRESSES**

CONCRETE  $f'_c = 24 \text{ MPa}$   
REINFORCEMENT  $f_y = 400 \text{ MPa}$

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

**JUNCTION CHAMBER NO. 4**

SCALE NTS  
DATE 07/05

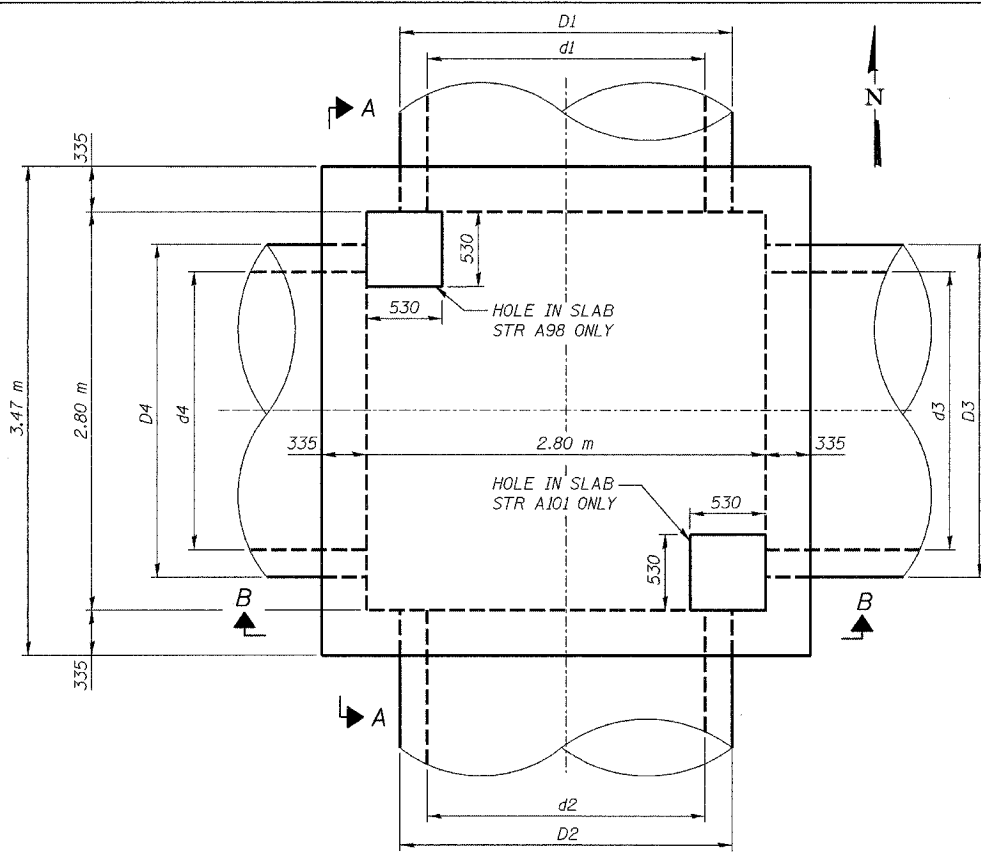
DRAWN BY ACE/CAD  
CHECKED BY TAE



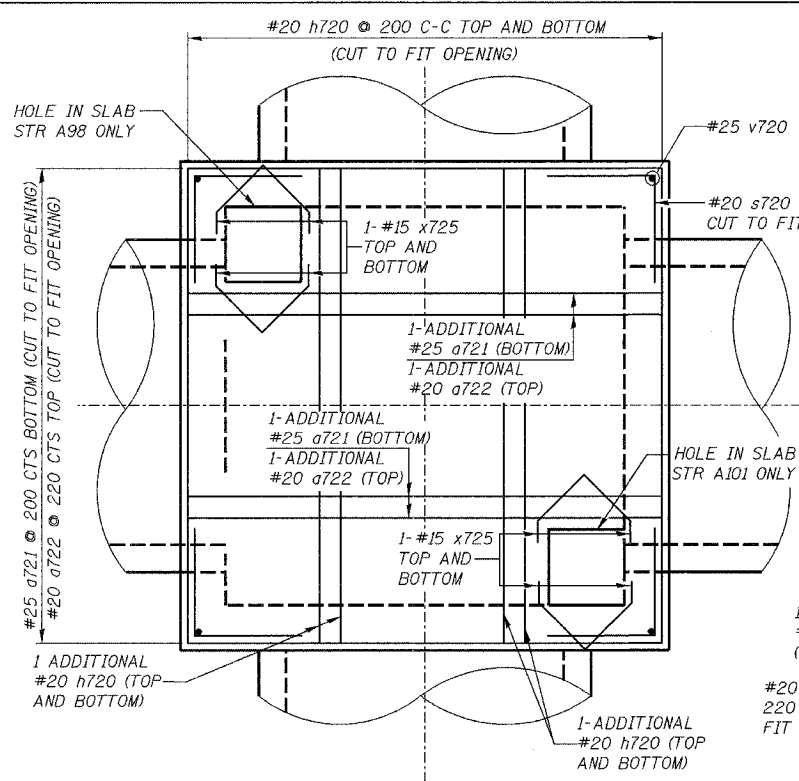


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	288A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

ALL DIMENSIONS IN MILLIMETERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE



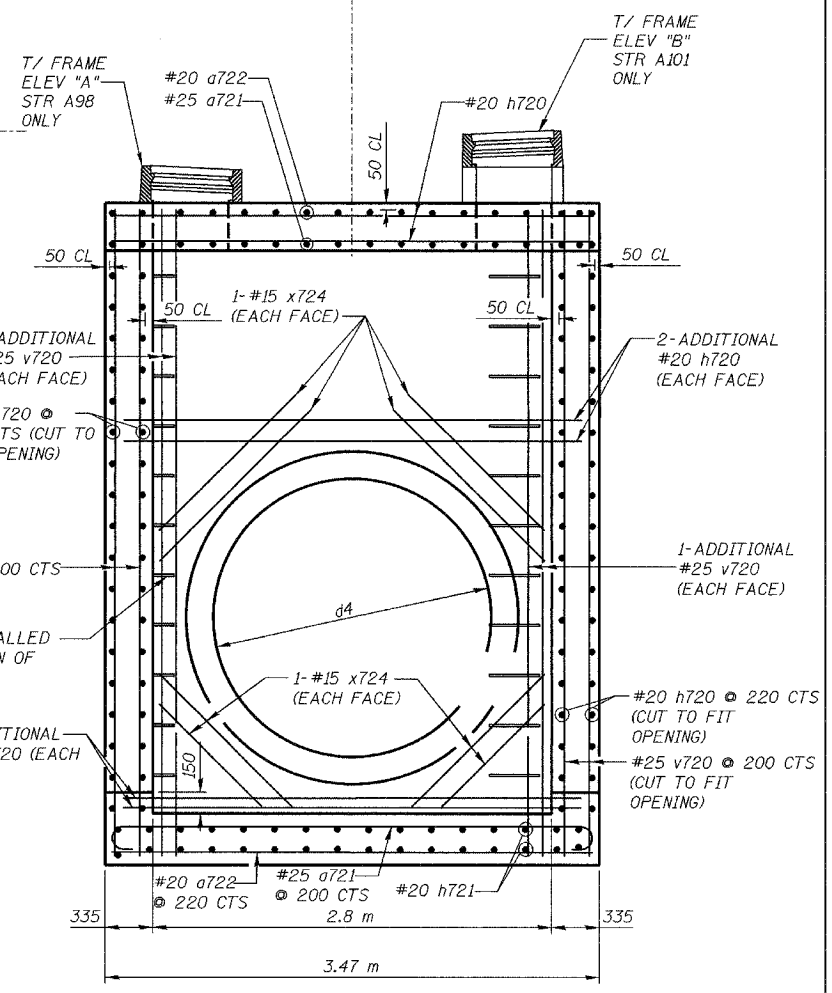
PLAN



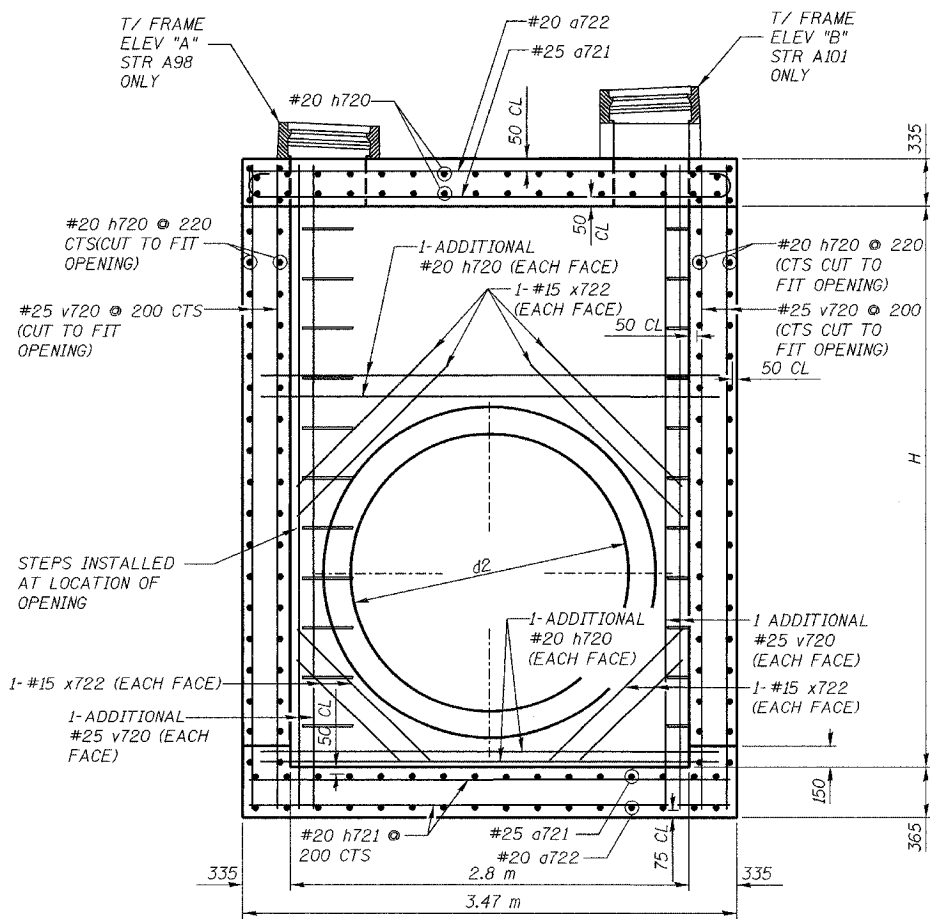
PLAN (W/ REINFORCEMENT)

BAR LIST

BAR	SIZE	STR NO A98	NO./LENGTH(m)	STR NO A101	NO./LENGTH(m)	Shape
a721	#25	40	3.81	40	3.81	—
a722	#20	19	3.37	19	3.37	—
h720	#20	154	3.37	154	3.37	—
h721	#20	57	3.32	57	3.32	—
s720	#20	52	1.50	52	1.50	┌
v720	#25	184	2.51	184	2.51	—
x721	#15	N/A	N/A	16	2.53	—
x722	#15	16	2.53	N/A	N/A	—
x723	#15	16	2.53	N/A	N/A	—
x724	#15	N/A	N/A	16	2.53	—
x725	#15	16	0.61	16	0.61	┘



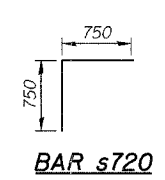
SECTION A-A



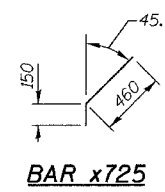
SECTION B-B

STR. NO.	LOCATION	FRAME & LID	PIPE 1 (N)				PIPE 2 (S)				PIPE 3 (E)				T/FRAME ELEV "A"		T/FRAME ELEV "B"		T/SLAB ELEV "H"	HEIGHT "H"
			d1	INVERT	D1	d2	INVERT	D2	d3	INVERT	D3	d4	INVERT	D4	182.288	181.896				
A98	7+942.00, 30.18 m LT	1-TYPE 1 FRAME, CLOSED LID	-	-	1950	179.151	2332	1950	179.120	2332	-	-	-	-	-	-	-	181.896	2.63	
A101	7+972.75, 35.95 m LT	1-TYPE 1 FRAME, CLOSED LID	1950	179.051	2332	-	-	-	-	-	-	1950	179.081	2332	-	-	182.429	181.827	2.63	

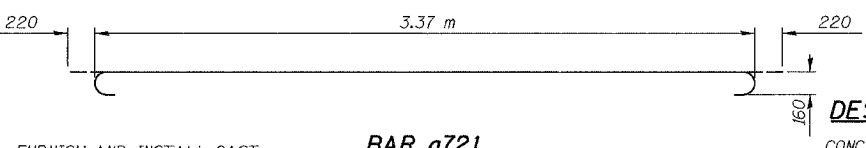
STRUCTURE DETAILS AND DIMENSIONS



BAR s720



BAR x725



BAR a721

FURNISH AND INSTALL CAST IRON STEPS, STD 602701

DESIGN STRESSES

CONCRETE  $f'c = 24 \text{ MPa}$   
REINFORCEMENT  $f_y = 400 \text{ MPa}$

REVISIONS	
NAME	DATE

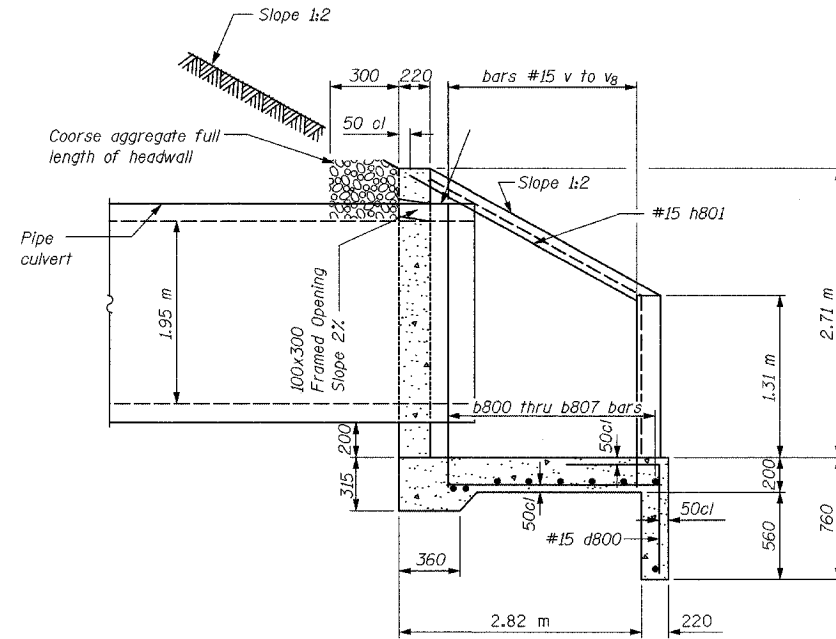
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**JUNCTION CHAMBER NO. 5**

SCALE NTS  
DATE 07/05

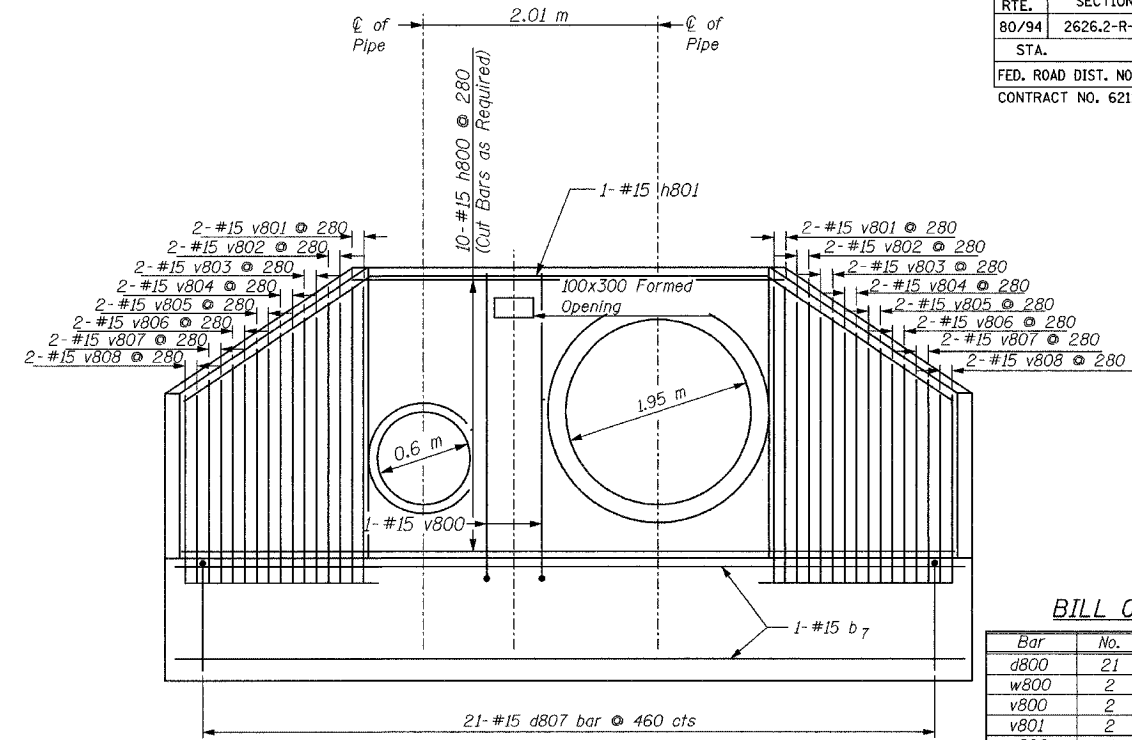
DRAWN BY ACE/CAD  
CHECKED BY TAE

**AMERICAN**  
CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	289
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



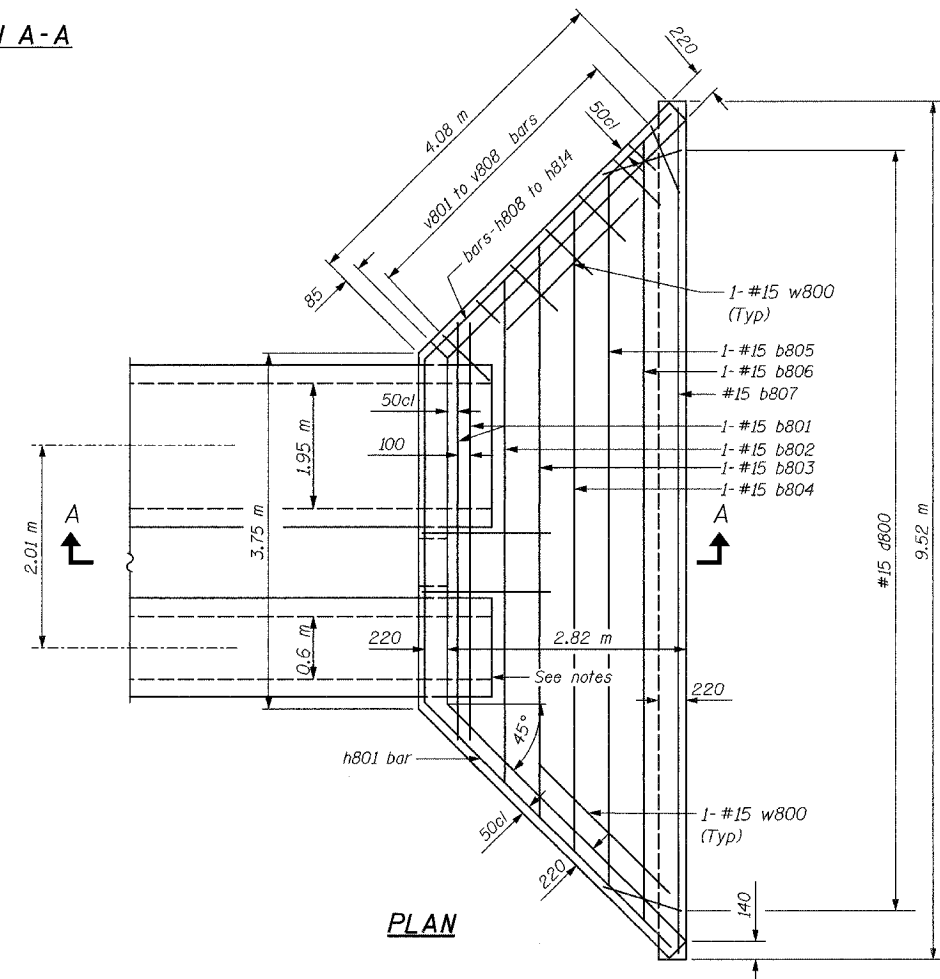
SECTION A-A



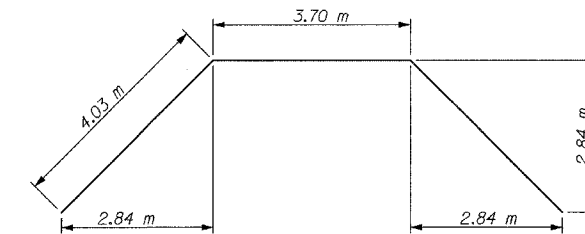
END ELEVATION

**BILL OF MATERIAL**

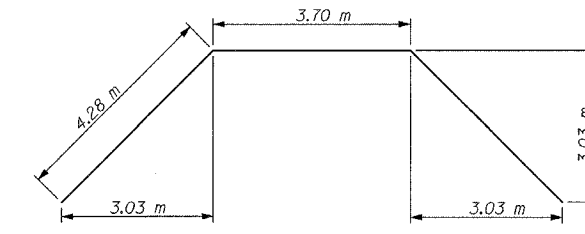
Bar	No.	Size	Length (m)	Shape
d800	21	#15	1.30	┌
w800	2	#15	3.05	—
v800	2	#15	3.42	└
v801	2	#15	3.27	└
v802	4	#15	3.17	└
v803	4	#15	2.98	└
v804	4	#15	2.79	└
v805	4	#15	2.60	└
v806	4	#15	2.40	└
v807	4	#15	2.21	└
v808	4	#15	2.02	└
b801	2	#15	4.25	—
b802	1	#15	5.17	—
b803	1	#15	6.09	—
b804	1	#15	7.01	—
b805	1	#15	7.93	—
b806	1	#15	8.85	—
b807	2	#15	9.45	—
h800	10	#15	11.76	—
h801	1	#15	12.26	—
Concrete Structures			m <sup>3</sup>	10.48
Reinforcement Bars			kg	490



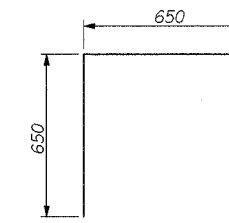
PLAN



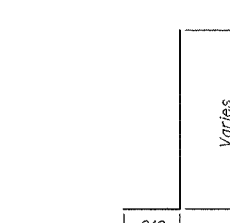
BAR h800



BAR h801



BAR d800



BAR v800 to v808

**GENERAL NOTES**

\* If embankment slope above headwall is flatter than 1:2, provide wings for 1:2 slope

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H)

All dimensions are in millimeters unless otherwise shown.

Pipes shall be extended beyond the face of wall to allow for the installation of the slip-on flat bottom check valves.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**REINFORCED CONCRETE END SECTION  
STRUCTURE A103**

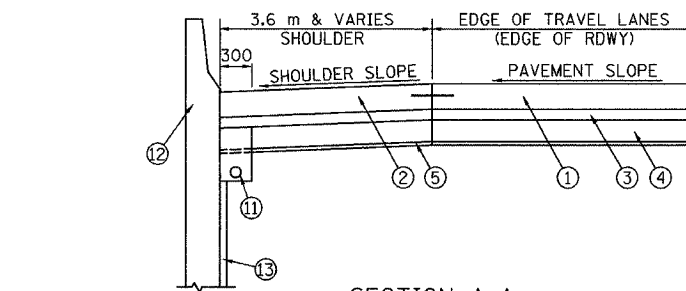
REVISIONS	
NAME	DATE

SCALE NONE  
DATE 07/05

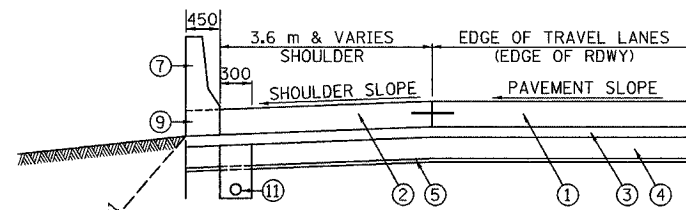
DRAWN BY ACE/CAD  
CHECKED BY TAE



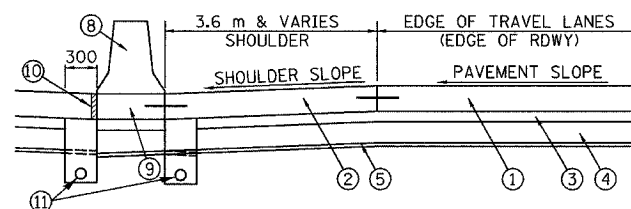
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	290
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



SECTION A-A  
SHOWING RETAINING WALL



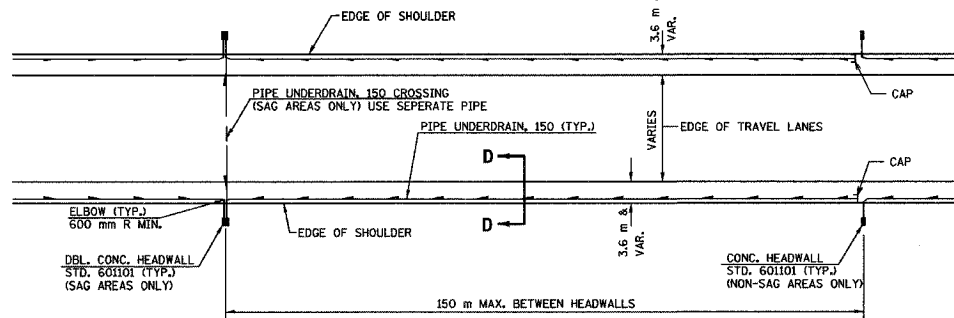
SECTION B-B  
SHOWING CONCRETE BARRIER, SINGLE FACE



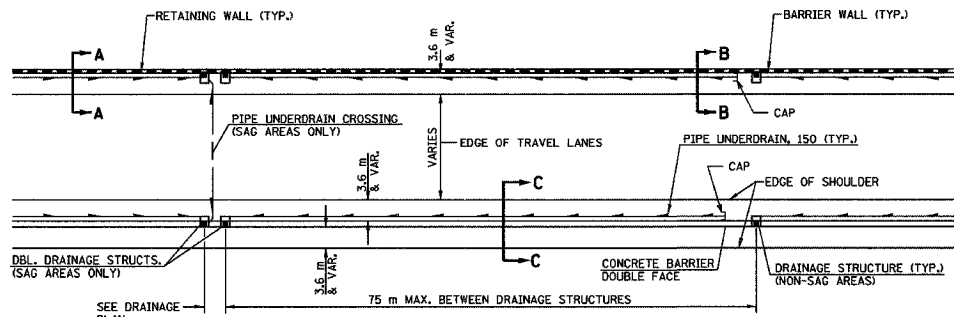
SECTION C-C  
SHOWING CONCRETE BARRIER, DOUBLE FACE  
NOTE: DUAL DRAINS IN LOCATION SHOWN IN PLANS

LIMITS OF EMBANKMENT IN ACCORDANCE WITH SPECIAL PROVISION FOR EMBANKMENT FOR NON 30 YEAR PAVEMENT

LIMITS OF EMBANKMENT FOR 30 YEAR EXTENDED LIFE PAVEMENT



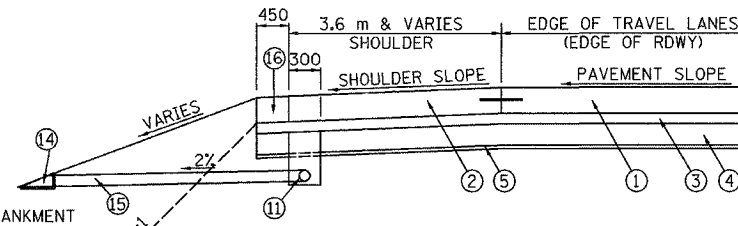
PROPOSED PLAN VIEW WITH OPEN DRAINAGE SYSTEM



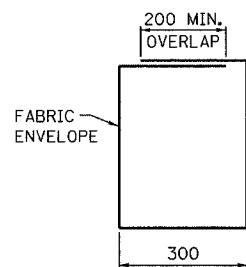
PROPOSED PLAN VIEW WITH CLOSED DRAINAGE SYSTEM

LIMITS OF EMBANKMENT IN ACCORDANCE WITH SPECIAL PROVISION FOR EMBANKMENT FOR NON 30 YEAR PAVEMENT

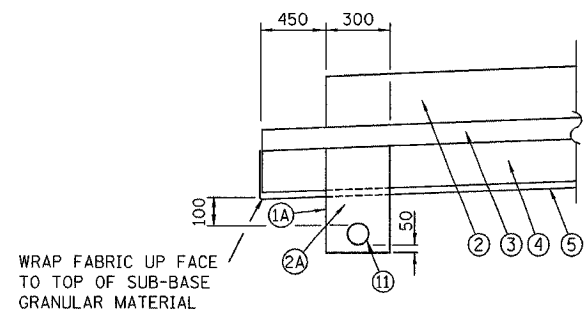
LIMITS OF EMBANKMENT FOR 30 YEAR EXTENDED LIFE PAVEMENT



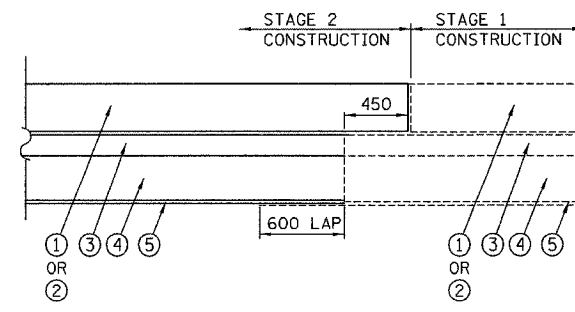
SECTION D-D  
SHOWING OPEN DRAINAGE



FABRIC ENVELOPE  
DETAIL



UNDERDRAIN TRENCH  
DETAIL



DETAIL FOR STAGE CONSTRUCTION OF THE SUBGRADE  
(FOR 30 YEAR EXTENDED LIFE PAVEMENT)

LEGEND

- ① PROPOSED PAVEMENT
- ② PORTLAND CEMENT CONCRETE SHOULDERS
- ③ STABILIZED SUBBASE - 150 mm
- ④ SUB-BASE GRANULAR MATERIAL, TYPE B - 300 mm
- ⑤ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑥ NOT USED
- ⑦ CONCRETE BARRIER, SINGLE FACE
- ⑧ CONCRETE BARRIER, DOUBLE FACE
- ⑨ CONCRETE BARRIER BASE
- ⑩ BARRIER BASE OPEN JOINT (PJF)
- ⑪ PIPE UNDERDRAINS - 150 mm
- ⑫ RETAINING WALL
- ⑬ GEOCOMPOSITE WALL DRAIN
- ⑭ CONCRETE HEADWALLS FOR PIPE DRAINS (STD. 601101)
- ⑮ PIPE UNDERDRAINS (SPECIAL)
- ⑯ AGGREGATE SHOULDERS, TYPE B

LEGEND

(COST INCLUDED IN PIPE UNDERDRAINS)

- ⑩A FABRIC ENVELOPE FOR PIPE UNDERDRAINS
- ⑩A POROUS GRANULAR BACKFILL (CA-16)

NOTE 1: NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR TRENCHING THROUGH AGGREGATE SUBGRADE, POROUS GRANULAR EMBANKMENT, SUBGRADE OR GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

NOTE 2: DRAINAGE MATS WILL NOT BE ALLOWED.

NOTE 3: SEE TYPICAL SECTIONS AND ROADWAY PLANS FOR PAVEMENT AND SHOULDER TYPES, WIDTHS AND CROSS-SLOPES.

NOTE 4: SEE CONCRETE BARRIER DETAILS FOR REQUIRED TIE BARS OR REINFORCING BARS AND OTHER DETAILS.

NOTE 5: ADDITIONAL SUB-BASE GRANULAR MATERIAL UNDER THE CONCRETE BARRIER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE SQUARE METER COST OF SUB-BASE GRANULAR MATERIAL, TYPE B.

NOTE 6: ALL PIPE FITTINGS NECESSARY FOR THE INSTALLATION OF THE UNDERDRAIN SYSTEM WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE METER COST OF PIPE UNDERDRAINS, 150.

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**PIPE UNDERDRAIN AND SUBGRADE DETAILS  
FOR OPEN AND CLOSED DRAINAGE SYSTEMS**

SCALE NONE DRAWN BY ACE/CAD  
DATE 07/05 CHECKED BY TAE



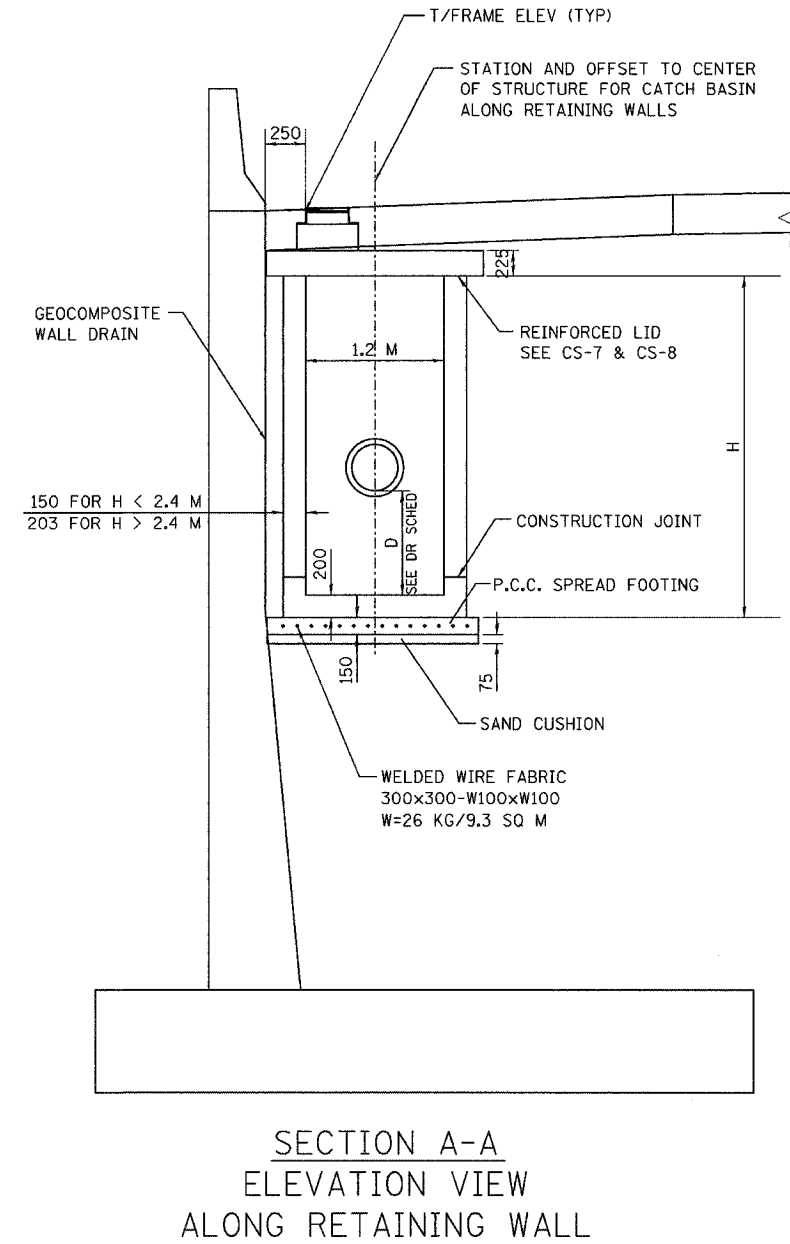
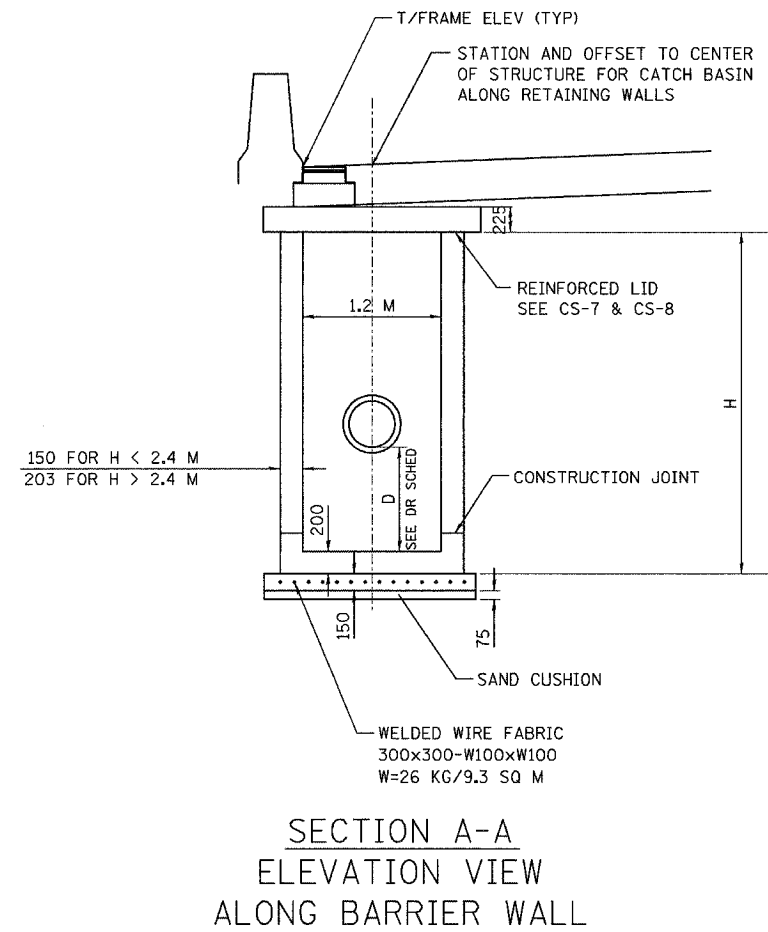
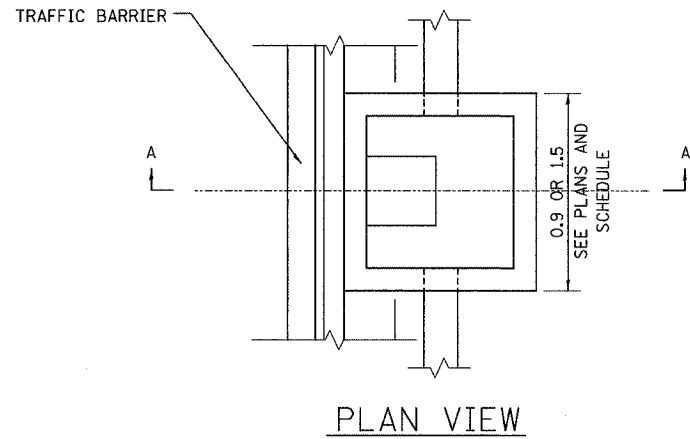
REVISIONS	
NAME	DATE
ACE	06/04
ACE	6/9/04
ACE	4/20/05

LEGEND

- STAGE 1
- STAGE 2

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	291
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



CATCH BASIN 1.2X0.9 SPL T20 F&G  
AND  
CATCH BASIN 1.2X1.5 SPL T22 F&G

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

**DRAINAGE DETAILS**

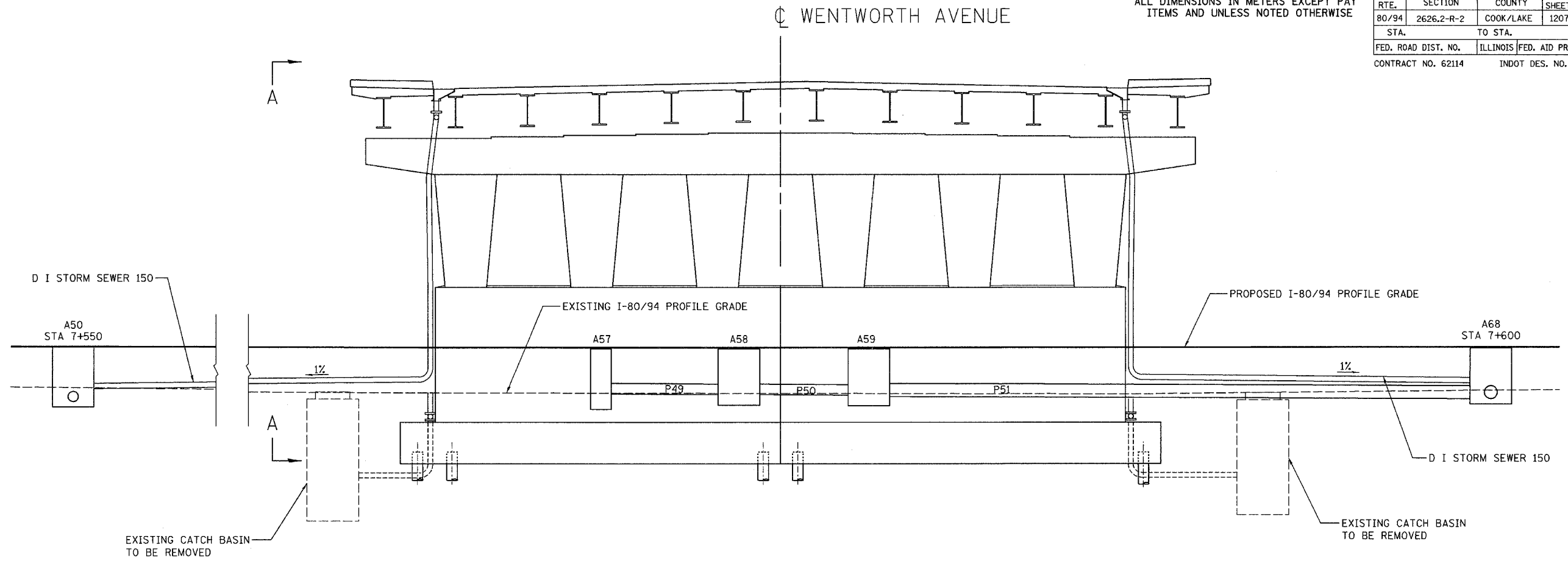
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DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

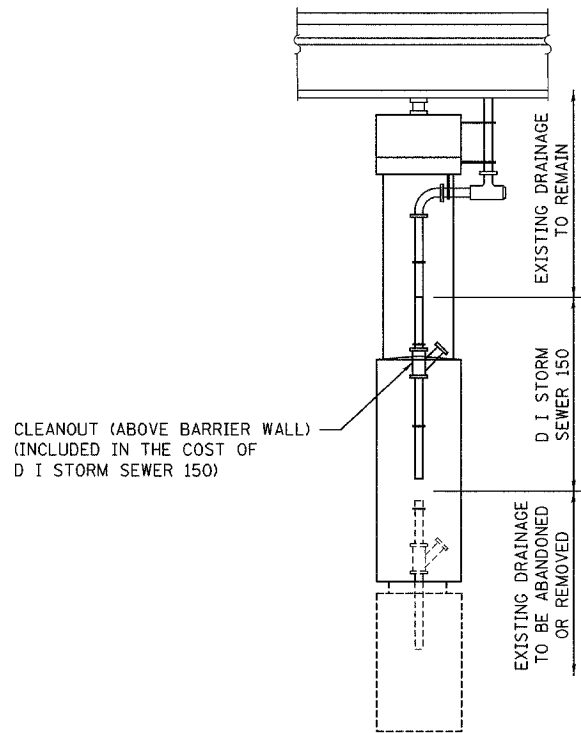
**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	292
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



LOOKING NORTH



VIEW A-A

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6 (KINGERY EXPRESSWAY)  
BURNAM ROAD TO US 41 (CALUMET AVE)

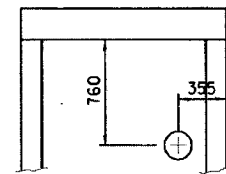
**WENTWORTH AVE  
DRAINAGE DETAIL**

SCALE NTS  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE

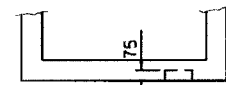


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	293
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114			INDOT DES. NO. 0100887	

**DRAINAGE STRUCTURES ALONG BARRIER WALL**



**ELEVATION**



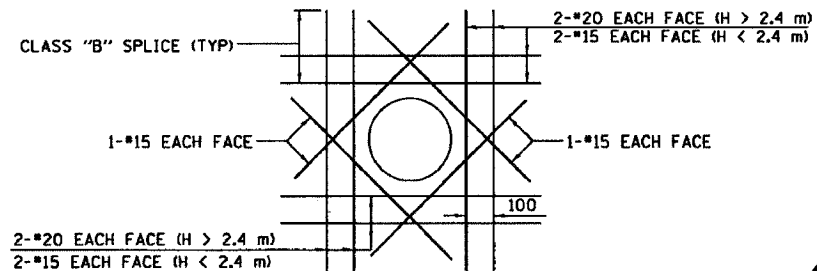
**PLAN**

AS SHOWN PROVIDE ON EACH FACE ONE (1) 75 DEEP DEPRESSION FOR USE AS UNDERDRAIN CONNECTIONS.

USE: 125 DIAMETER FOR 100 P.U.  
175 DIAMETER FOR 150 P.U.  
225 DIAMETER FOR 200 P.U.

REFER TO PLANS FOR SIZE & LOCATIONS OF UNDERDRAIN

**PIPE UNDERDRAIN CONNECTION DETAIL**

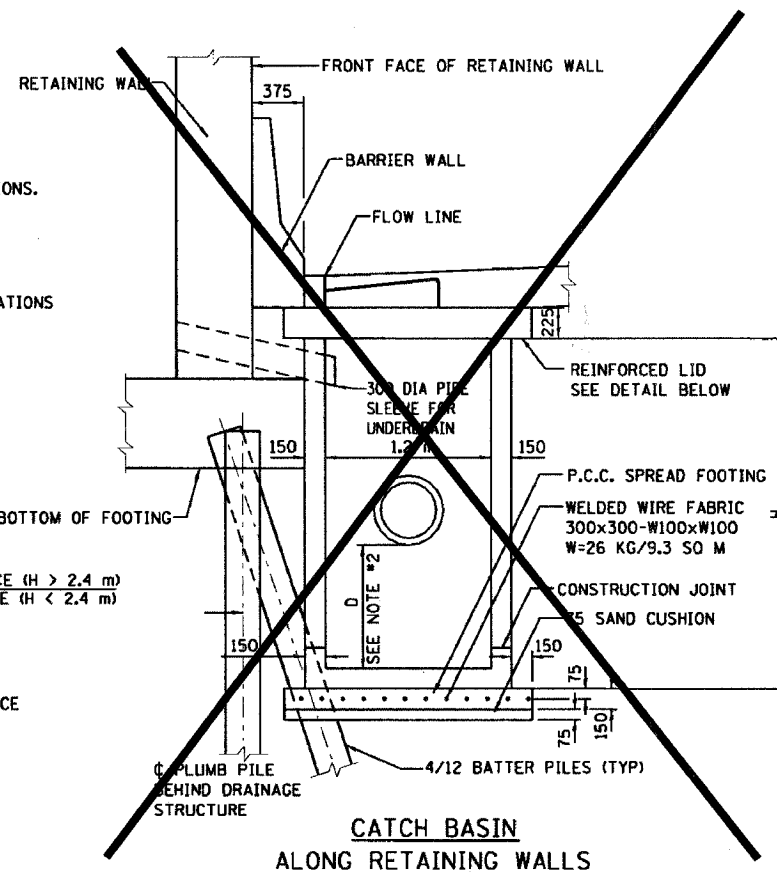


**TYPICAL REINFORCEMENT DETAIL AROUND OPENINGS (OPENING ≥ 300)**

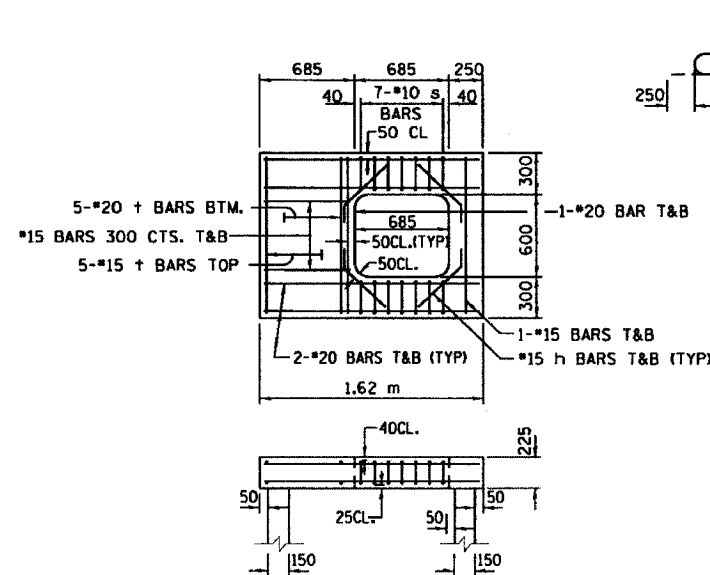
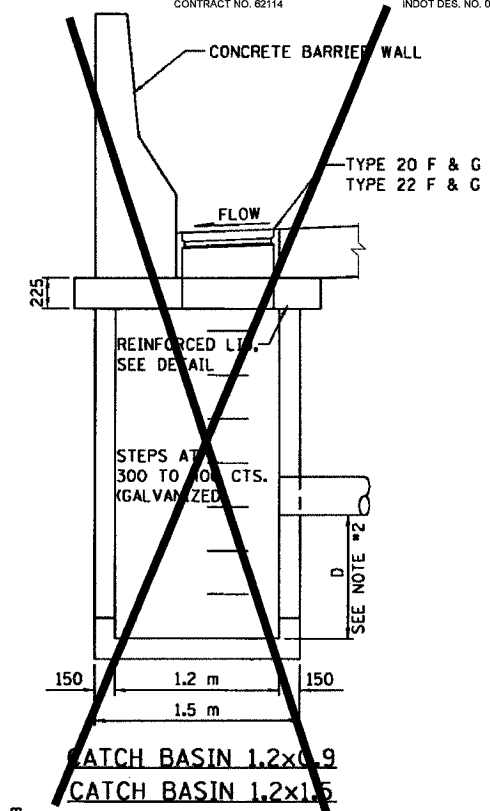
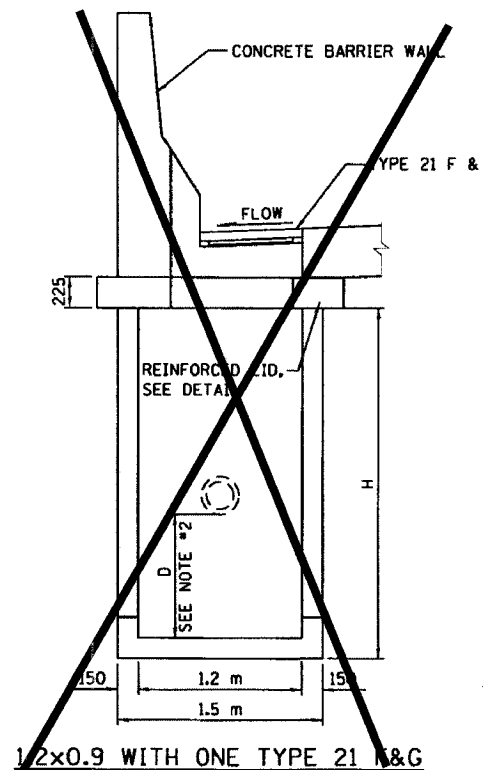
WHERE CLASS "B" SPLICE LENGTH ANCHORAGE IS NOT POSSIBLE, BARS SHOULD BE HOOKED.

**NOTES:**

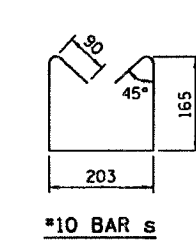
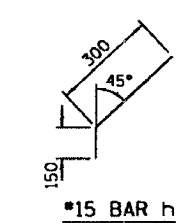
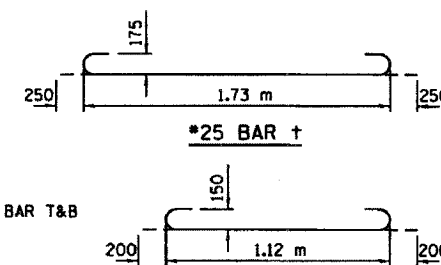
- DRAINAGE STRUCTURE SHALL CONFORM TO I.D.O.T. STANDARD 602101 EXCEPT AS NOTED.
- D = 0 m FOR INLETS  
D = 900 FOR C.B.'S.
- SAND CUSHION SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1003.01 (FA1 OR FA2).
- THE FOOTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.
- REINFORCEMENT FOR STRUCTURE WALLS AND BASE SLAB SHALL BE IN ACCORDANCE WITH STD. 602101 FOR DEPTHS UP TO H=2.4 m
- STEPS SHALL BE INCLUDED IN ALL STRUCTURES
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHER WISE NOTED.
- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- WHERE THE ADJACENT SHOULDER OR PAVEMENT THICKNESS EXCEEDS THAT OF THE NEW FRAME, THE CONTRACTOR SHALL INSTALL THE CATCH BASIN LID FLUSH OR LOWER THAN THE BOTTOM OF THE ADJACENT SHOULDER OR PAVEMENT AND ADJUST THE FRAME AND LID IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS.
- IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR THE DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION, ADJUSTING RINGS WHEN REQUIRED AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.



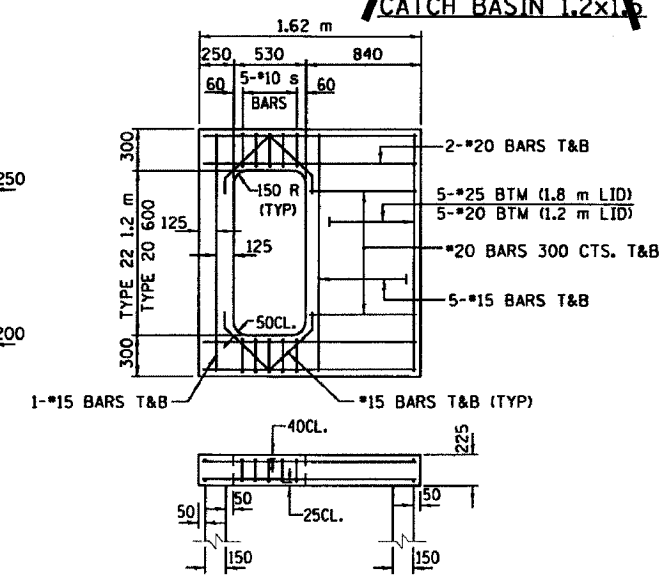
**CATCH BASIN ALONG RETAINING WALLS**



**REINFORCED LID FOR TYPE 21 F&G**



**BAR DETAILS**



**REINFORCED LID FOR TYPE 20 AND 22 F&G**

REVISIONS	
NAME	DATE
ACE	02/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)

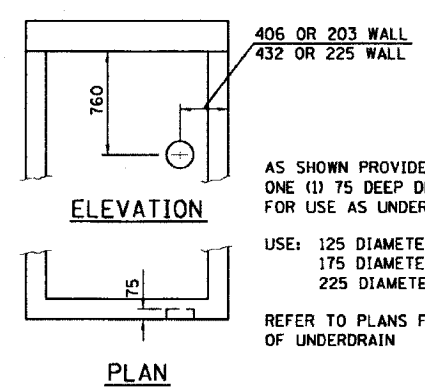
**CATCH BASIN AND INLET**  
1.2 x 0.9 AND 1.2 x 1.5  
FOR H ≤ 2.4

SCALE NONE  
DATE 09/03

DRAWN BY ACE/CAD  
CHECKED BY

F:\Project\2010\8094\Contract & Structure Information\Detail\25.7.dwg Thu Feb 26 07:02:54 2004

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	294
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 82114			INDOT DES. NO. 010987	



AS SHOWN PROVIDE ON EACH FACE ONE (1) 75 DEEP DEPRESSION FOR USE AS UNDERDRAIN CONNECTIONS.

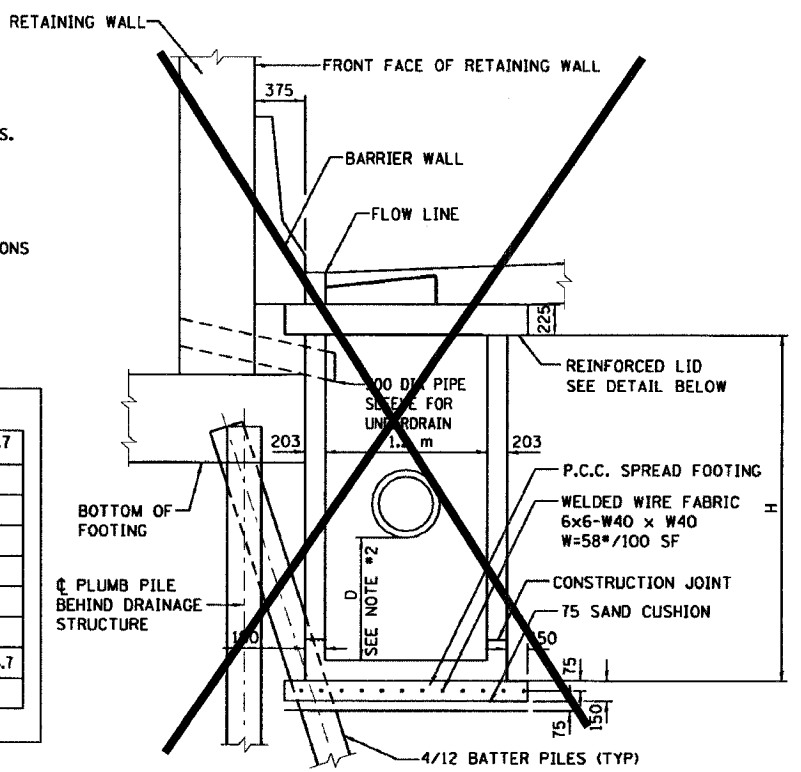
USE: 125 DIAMETER FOR 100 P.U.  
175 DIAMETER FOR 150 P.U.  
225 DIAMETER FOR 200 P.U.

REFER TO PLANS FOR SIZE & LOCATIONS OF UNDERDRAIN

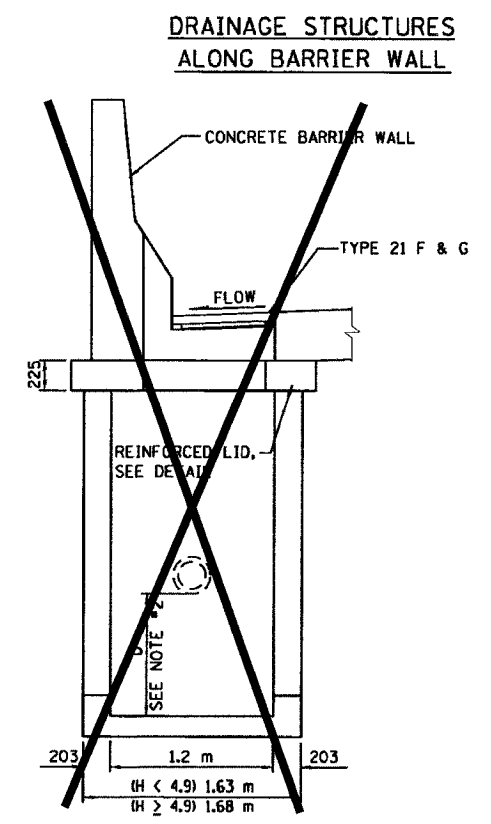
**PIPE UNDERDRAIN CONNECTION DETAIL**

REINFORCEMENT BAR SCHEDULE		H	2.4-3.0 m	3.0-3.6 m	3.6-4.2 m	4.2-5.5 m	5.5-6.7 m
HORIZONTAL BARS IN WALLS	BAR SIZE	15	15	20	20	20	20
	SPACING	300	300	300	300	300	300
VERTICAL BARS IN WALLS	BAR SIZE	15	15	15	15	15	15
	SPACING	300	300	300	300	300	300
BARS IN BASE SLAB	BAR SIZE	15	15	15	15	15	15
	SPACING	300	300	300	300	300	300
	H	43.0	33.0 43.6	33.6 44.2	44.2 55.5	55.5 66.7	

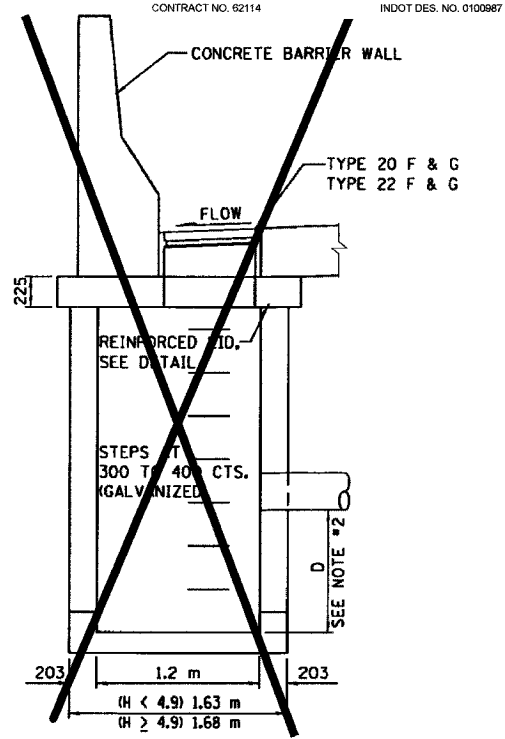
NOTE: PLACE REINFORCEMENT PER STANDARD 602101



**CATCH BASIN ALONG RETAINING WALLS**



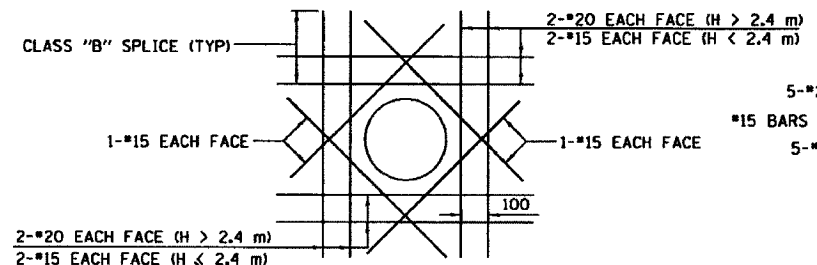
**1.2x0.9 WITH ONE TYPE 21 F&G**



**CATCH BASIN 1.2x0.9  
CATCH BASIN 1.2x1.5**

**NOTES:**

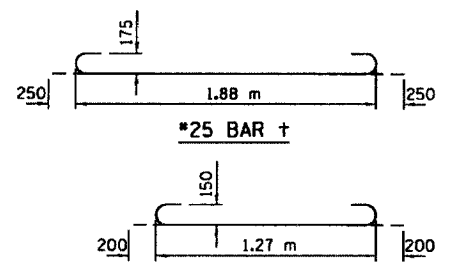
- DRAINAGE STRUCTURE SHALL CONFORM TO I.D.O.T. STANDARD 602101 EXCEPT AS NOTED.
- D = 0 m FOR INLETS  
D = 900 FOR C.B.'S.
- WHEN H ≥ 4.9m, THICKNESS OF WALL AND BASE SLAB SHALL BE INCREASED TO 225.
- SAND CUSHION SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1003.01 (FA1 OR FA2).
- THE FOOTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHER WISE NOTED.
- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- WHERE THE ADJACENT SHOULDER OR PAVEMENT THICKNESS EXCEEDS THAT OF THE NEW FRAME, THE CONTRACTOR SHALL INSTALL THE CATCH BASIN LID FLUSH OR LOWER THAN THE BOTTOM OF THE ADJACENT SHOULDER OR PAVEMENT AND ADJUST THE FRAME AND LID IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS.
- IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR THE DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION, ADJUSTING RINGS WHEN REQUIRED AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.



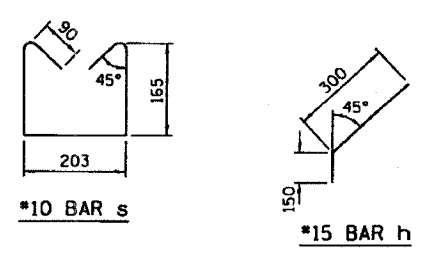
**TYPICAL REINFORCEMENT DETAIL AROUND OPENINGS**

(OPENING ≥ 300)

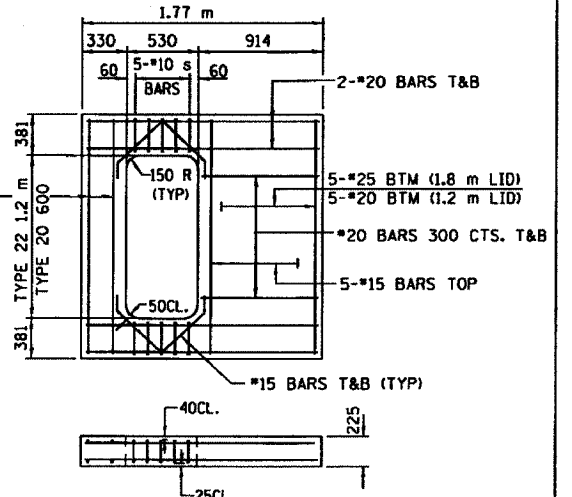
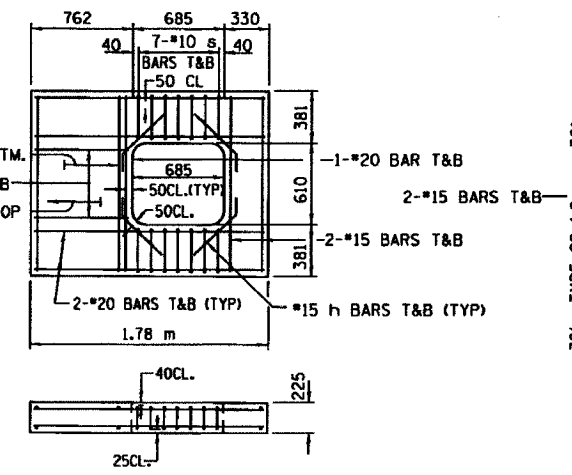
WHERE CLASS "B" SPLICE LENGTH ANCHORAGE IS NOT POSSIBLE, BARS SHOULD BE HOOKED.



**REINFORCED LID FOR TYPE 21 F&G**



**BAR DETAILS**



**REINFORCED LID FOR TYPE 20 AND 22 F&G**

REVISIONS	NAME	DATE
ACE		02/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)

**CATCH BASIN AND INLET  
1.2 x 0.9 AND 1.2 x 1.5  
FOR H > 2.4**

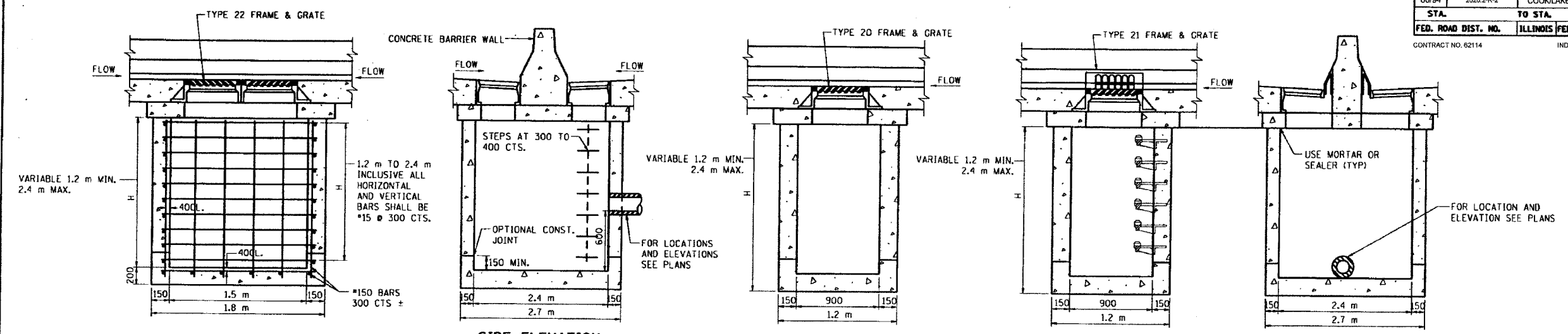
SCALE NONE  
DATE 05/03

DRAWN BY ACE/CAD  
CHECKED BY

F:\Project\301\080\INC\Contract & Structure Information\Drawings\CS\_B.dwg Thu, Feb 26 07:04:21 2004

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2020.2-R-2	COOKLAKE	1207	295
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62114 INDOT DES. NO. 0100897



**FRONT ELEVATION (DRAINAGE STRUCTURE, TYPE 2.4m x 1.5m) TYPE 22 FRAME AND GRATE**  
**SIDE ELEVATION (DRAINAGE STRUCTURE, TYPE 2.4m x 0.9m & 2.4m x 1.5m) TYPE 20 & 22 FRAME AND GRATE**  
**FRONT ELEVATION (DRAINAGE STRUCTURE, TYPE 2.4m x 0.9m) TYPE 20 FRAME AND GRATE**  
**FRONT ELEVATION (DRAINAGE STRUCTURE, TYPE 2.4m x 0.9m) TYPE 21 FRAME AND GRATE**  
**SIDE ELEVATION (DRAINAGE STRUCTURE, TYPE 2.4m x 0.9m) TYPE 21 FRAME AND GRATE**

**GENERAL NOTES**

CLASS PC CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. CLASS PC CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 504 OF THE STANDARD SPECIFICATIONS

PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE AT LEAST 27,600 KPa AFTER 28 DAYS. SHOP DRAWINGS WILL NOT BE REQUIRED FOR PRECAST UNITS.

THE REINFORCEMENT SHOWN IN THE FRONT ELEVATION OF THE TYPE 2.4 m x 1.5 m IS TYPICAL FOR BOTH ELEVATIONS OF ALL TYPES.

EXPOSED EDGES SHALL BE BEVELED 20.

SEE STANDARD 602701 FOR DETAILS OF CAST IRON STEPS.

A 75 DEEP SAND BEDDING CONFORMING TO ARTICLE 1003.01 (FA 1 OF AF 2) SHALL BE PROVIDED UNDER THE FULL LENGTH AND WIDTH OF PRECAST UNITS.

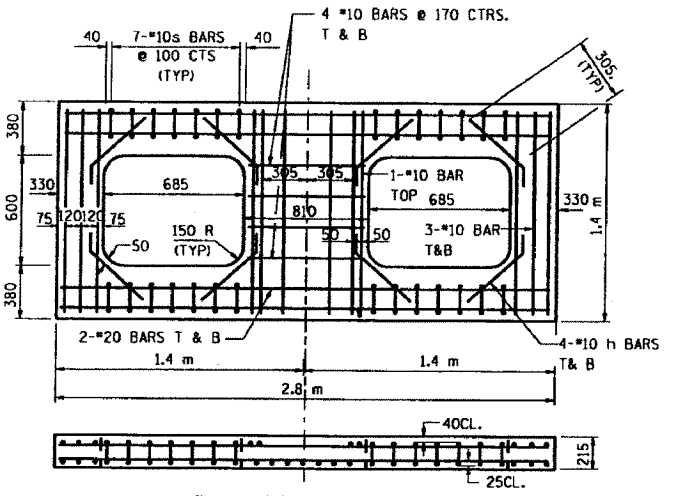
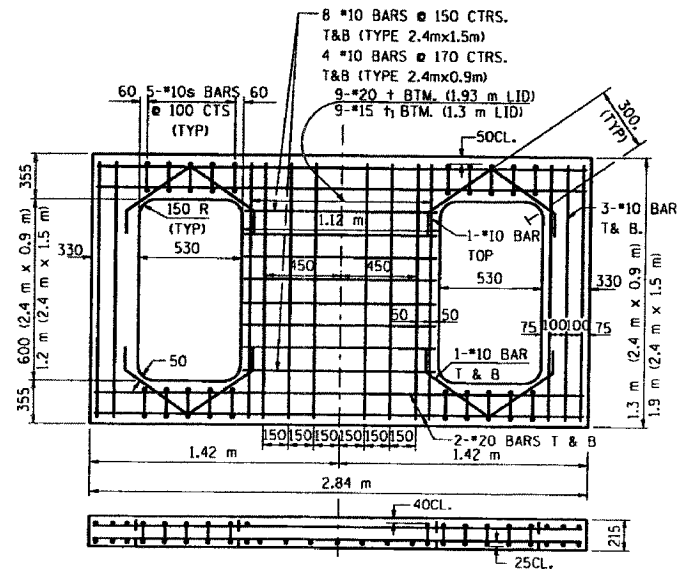
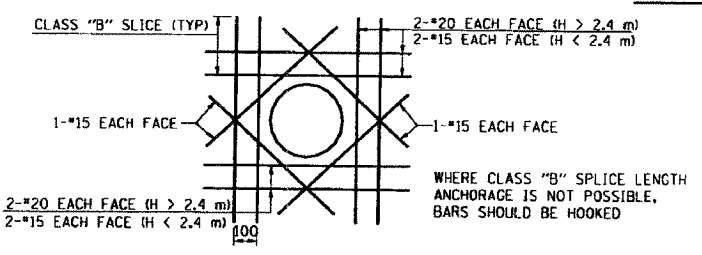
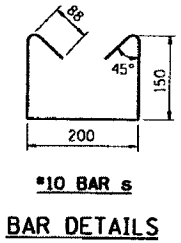
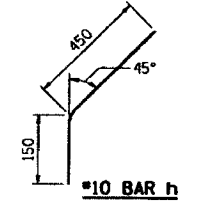
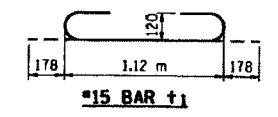
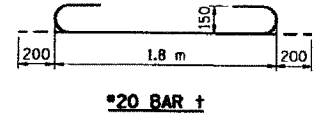
ALL VOIDS AROUND PIPE ENTRANCES, BOTH INSIDE AND OUTSIDE SHALL BE SEALED WITH MORTAR.

EACH DRAINAGE STRUCTURE SHALL BE EXCAVATED FOR AND BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 602.11 OF THE STANDARD SPECIFICATIONS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.

WHERE THE ADJACENT SHOULDER OR PAVEMENT THICKNESS EXCEEDS THAT OF THE NEW FRAME, THE CONTRACTOR SHALL INSTALL THE CATCH BASIN LID FLUSH OR LOWER THAN THE BOTTOM OF THE ADJACENT SHOULDER OR PAVEMENT AND ADJUST THE FRAME AND LID IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR THE DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION, ADJUSTING RINGS WHEN REQUIRED AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.



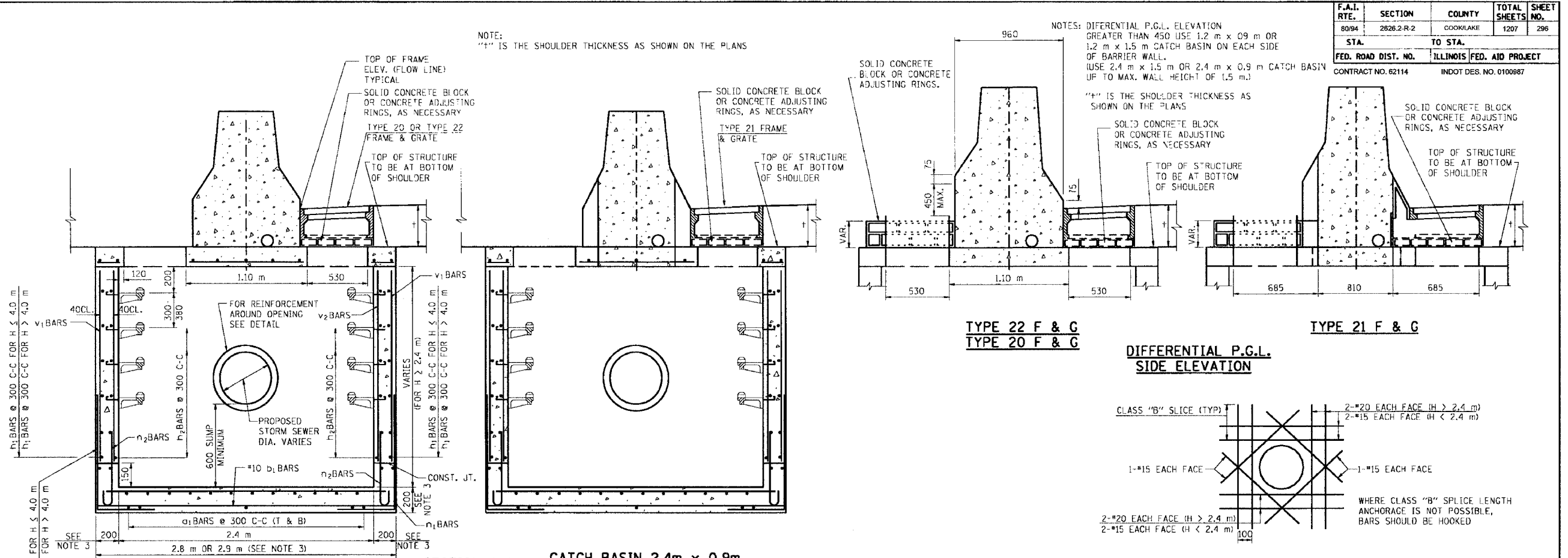
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
NAME	DATE	
ACE	02/04	<b>CATCH BASIN</b> <b>TYPES 2.4mx0.9m &amp; 2.4mx1.5m</b> <b>FOR H ≤ 2.4</b> SCALE NONE DATE 09/03 DRAWN BY ACE/CAD CHECKED BY

CS-9 (METRIC)  
REVISION DATE:

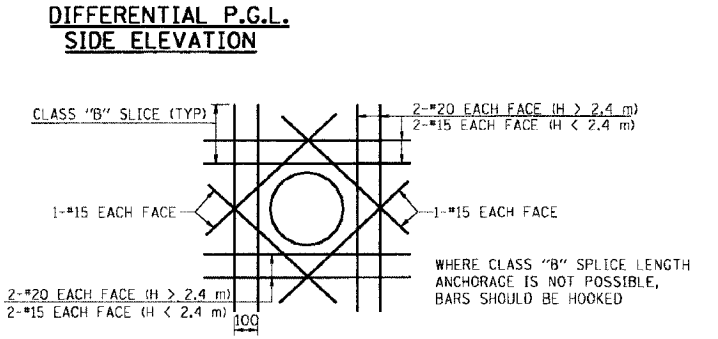
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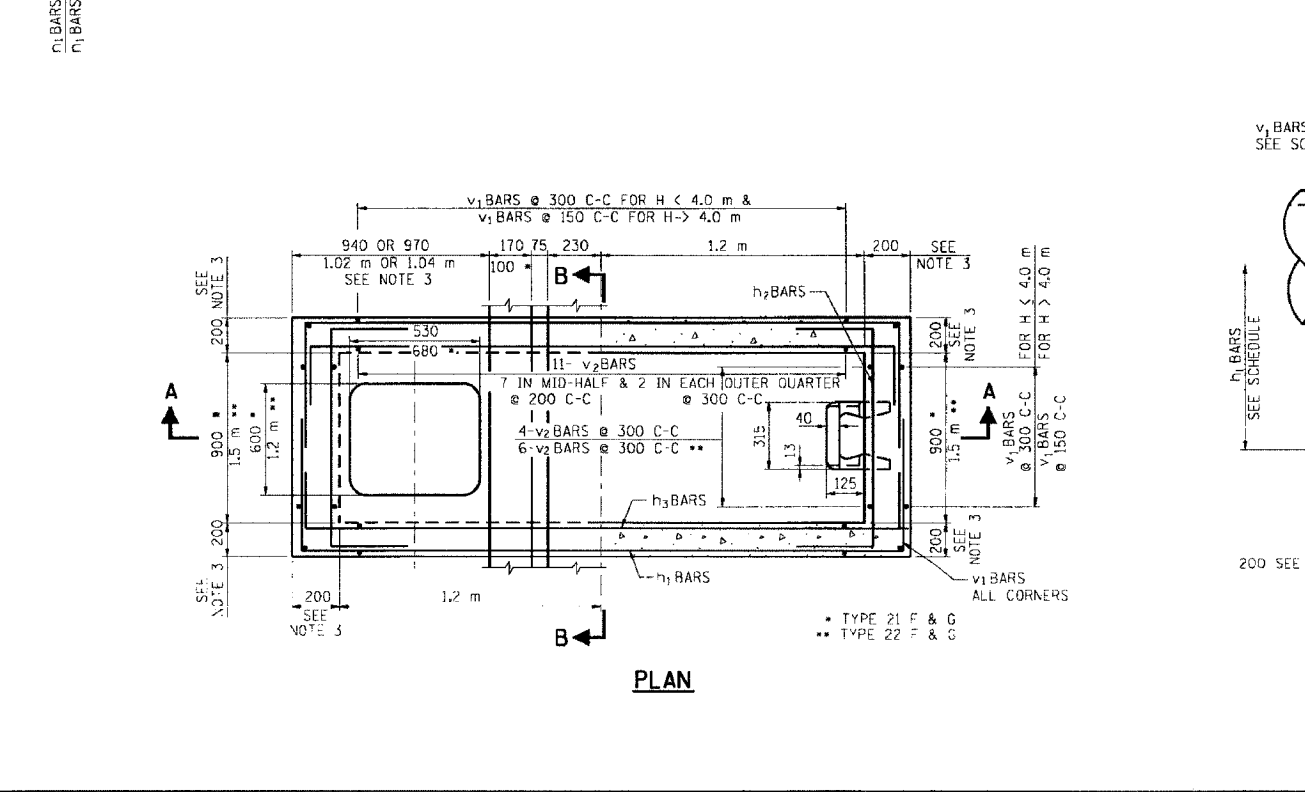
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2826.2-R-2	COOK/LAKE	1207	296
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



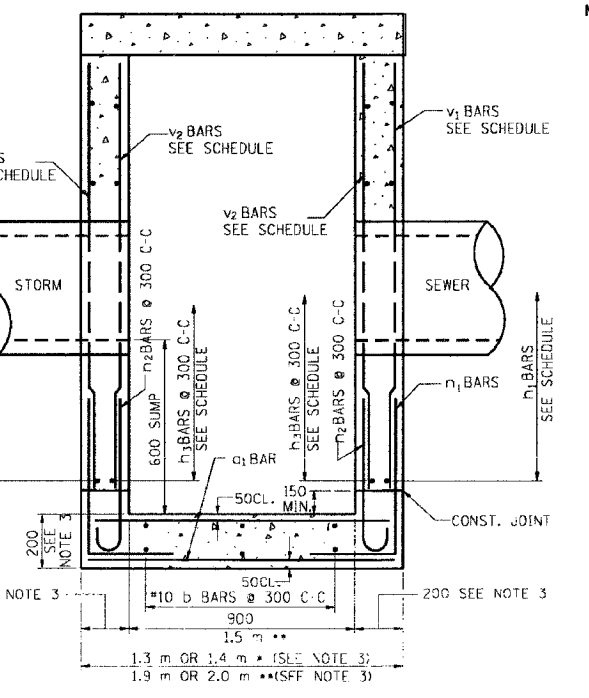
**SECTION A-A SIDE ELEVATION**  
**CATCH BASIN 2.4m x 1.5m (TYPE 22 F & G)**  
**CATCH BASIN 2.4m x 0.9m (TYPE 20 F & G)**



**TYPICAL REINFORCEMENT DETAIL AROUND OPENINGS**  
 (OPENING > 300)



**PLAN**  
 • TYPE 21 F & G  
 •• TYPE 22 F & G



**SECTION B-B FRONT ELEVATION**

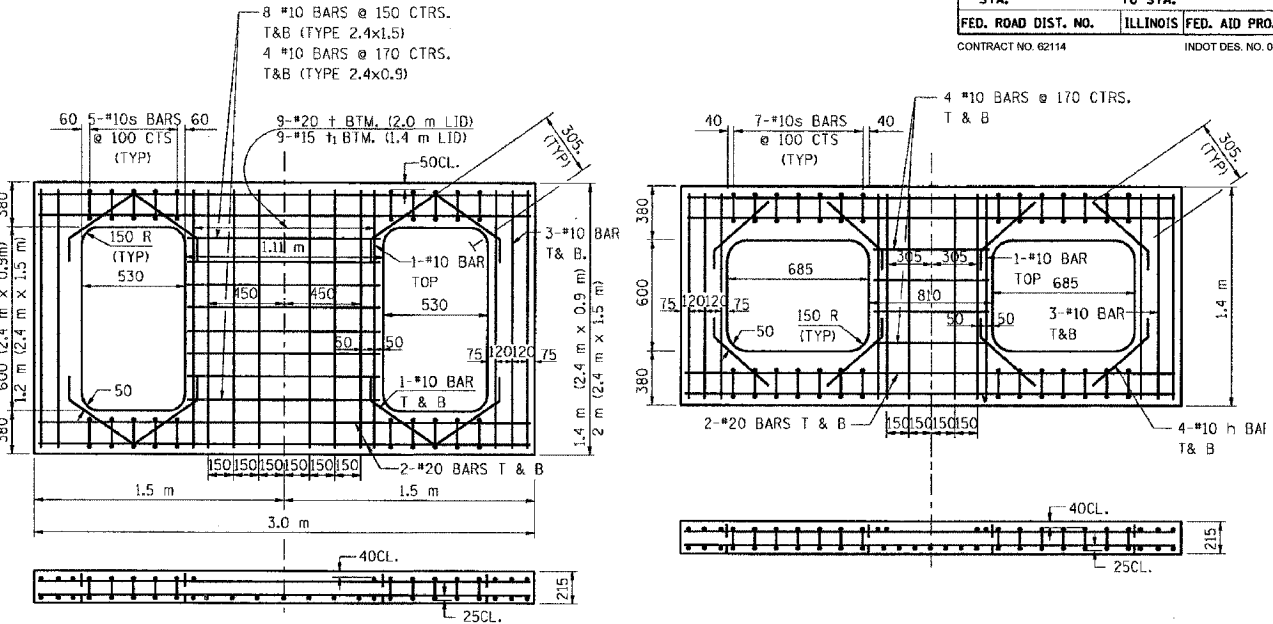
- NOTES:**
- DRAINAGE STRUCTURES SHALL CONFORM TO I.D.O.T. STANDARD 602101 EXCEPT AS NOTED.
  - SEE STANDARD 602701 FOR DETAILS OF CAST IRON STEPS.
  - WHEN H > 4.9 m, THE THICKNESS OF WALLS AND BASE SLAB SHALL BE INCREASED TO 230.
  - ALL STORM SEWER OPENINGS WILL BE CENTERED ON FACE OF WALL THAT PIPE IS ENTERING.
  - FOR LOCATIONS AND ELEVATIONS FOR ALL STORM SEWER CONNECTIONS REFER TO PLAN SCHEDULES.
  - THE CONTRACTOR WILL BE REQUIRED TO PROVIDE SHOP DRAWINGS FOR PIPE OPENINGS FOR PIPES ENTERING AT OTHER THAN 90°. FOR BASIS OF PAYMENT REFER TO SPECIAL PROVISIONS.
  - ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
  - WHERE THE ADJACENT SHOULDER OR PAVEMENT THICKNESS EXCEEDS THAT OF THE NEW FRAME, THE CONTRACTOR SHALL INSTALL THE CATCH BASIN LID FLUSH OR LOWER THAN THE BOTTOM OF THE ADJACENT SHOULDER OR PAVEMENT AND ADJUST THE FRAME AND LID IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS.
  - IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR THE DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION, ADJUSTING RINGS WHEN REQUIRED AND FURNISH AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
NAME	DATE	
ACE	02/04	<b>DRAINAGE STRUCTURES</b> <b>CATCH BASINS 2.4mx0.9m &amp; 2.4mx1.5m</b> <b>FOR DEPTHS WHERE H &gt; 2.4m</b> SHEET 1 OF 2
ACE	08/04	
		SCALE NONE DATE 09/03
		DRAWN BY ACE/CAD CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2026.2-R-2	COOK/LAKE	1207	297
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100887		

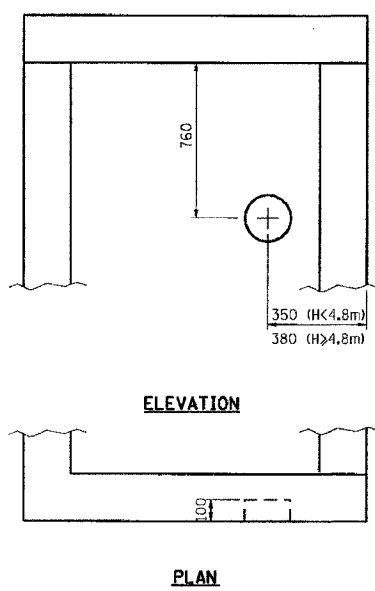
DRAINAGE STRUCTURE TYPE 2.4m x 0.9m		REINFORCEMENT BARS SCHEDULE																										
TYPE	H METERS	a <sub>1</sub> BARS		b <sub>1</sub> BARS		h <sub>1</sub> BARS		h <sub>2</sub> BARS		h <sub>3</sub> BARS		n <sub>1</sub> BARS		n <sub>2</sub> BARS		v <sub>1</sub> BARS		v <sub>2</sub> BARS										
		SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH						
1	>2.4	#15	16	1.2 m	#10	8	2.72 m	#15	16	4.38 m	#15	16	1.8 m	#15	16	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.2 m	#10	30	2.2 m
2	2.6	#15	16	1.2 m	#10	8	2.72 m	#15	18	4.38 m	#15	18	1.8 m	#15	18	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.4 m	#10	30	2.4 m
3	2.7	#15	16	1.2 m	#10	8	2.72 m	#15	18	4.38 m	#15	18	1.8 m	#15	18	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.5 m	#10	30	2.5 m
4	2.9	#15	16	1.2 m	#10	8	2.72 m	#15	20	4.38 m	#15	20	1.8 m	#15	20	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.7 m	#10	30	2.7 m
5	3.0	#15	16	1.2 m	#10	8	2.72 m	#15	20	4.38 m	#15	20	1.8 m	#15	20	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.8 m	#10	30	2.8 m
6	3.2	#15	16	1.2 m	#10	8	2.72 m	#15	22	4.38 m	#15	22	1.8 m	#15	22	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	2.9 m	#10	30	2.9 m
7	3.4	#15	16	1.2 m	#10	8	2.72 m	#15	22	4.38 m	#15	22	1.8 m	#15	22	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.1 m	#10	30	3.1 m
8	3.5	#15	16	1.2 m	#10	8	2.72 m	#15	24	4.38 m	#15	24	1.8 m	#15	24	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.2 m	#10	30	3.2 m
9	3.7	#15	16	1.2 m	#10	8	2.72 m	#15	24	4.38 m	#15	24	1.8 m	#15	24	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.4 m	#10	30	3.4 m
10	3.8	#15	16	1.2 m	#10	8	2.72 m	#15	26	4.38 m	#15	26	1.8 m	#15	26	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.6 m	#10	30	3.6 m
11	4.0	#15	16	1.2 m	#10	8	2.72 m	#15	26	4.38 m	#15	26	1.8 m	#15	26	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.7 m	#10	30	3.7 m
12	4.1	#15	16	1.2 m	#10	8	2.72 m	#15	28	4.38 m	#15	28	1.8 m	#15	28	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	3.9 m	#10	30	3.9 m
13	4.3	#15	16	1.2 m	#10	8	2.72 m	#15	28	4.38 m	#15	28	1.8 m	#15	28	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	4.0 m	#10	30	4.0 m
14	4.8	#15	16	1.2 m	#10	8	2.72 m	#15	32	4.38 m	#15	32	1.8 m	#15	32	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	4.6 m	#10	30	4.6 m
15	5.5	#15	16	1.2 m	#10	8	2.72 m	#15	36	4.38 m	#15	36	1.8 m	#15	36	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	5.3 m	#10	30	5.3 m
16	6.0	#15	16	1.2 m	#10	8	2.72 m	#15	40	4.38 m	#15	40	1.8 m	#15	40	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	5.9 m	#10	30	5.9 m
17	6.7	#15	16	1.2 m	#10	8	2.72 m	#15	44	4.38 m	#15	44	1.8 m	#15	44	3.3 m	#15	30	1.52 m	#10	30	1.09 m	#15	30	6.5 m	#10	30	6.5 m

DRAINAGE STRUCTURE TYPE 2.4m x 1.5m		REINFORCEMENT BARS SCHEDULE																										
TYPE	H METERS	a <sub>1</sub> BARS		b <sub>1</sub> BARS		h <sub>1</sub> BARS		h <sub>2</sub> BARS		h <sub>3</sub> BARS		n <sub>1</sub> BARS		n <sub>2</sub> BARS		v <sub>1</sub> BARS		v <sub>2</sub> BARS										
		SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	SIZE	NO.	LENGTH						
1	>2.4	#15	16	1.8 m	#10	12	2.72 m	#15	16	4.9 m	#15	16	2.4 m	#15	16	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.2 m	#10	34	2.2 m
2	2.6	#15	16	1.8 m	#10	12	2.72 m	#15	18	4.9 m	#15	18	2.4 m	#15	18	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.4 m	#10	34	2.4 m
3	2.7	#15	16	1.8 m	#10	12	2.72 m	#15	18	4.9 m	#15	18	2.4 m	#15	18	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.5 m	#10	34	2.5 m
4	2.9	#15	16	1.8 m	#10	12	2.72 m	#15	20	4.9 m	#15	20	2.4 m	#15	20	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.7 m	#10	34	2.7 m
5	3.0	#15	16	1.8 m	#10	12	2.72 m	#15	20	4.9 m	#15	20	2.4 m	#15	20	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.8 m	#10	34	2.8 m
6	3.2	#15	16	1.8 m	#10	12	2.72 m	#15	22	4.9 m	#15	22	2.4 m	#15	22	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	2.9 m	#10	34	2.9 m
7	3.4	#15	16	1.8 m	#10	12	2.72 m	#15	22	4.9 m	#15	22	2.4 m	#15	22	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.1 m	#10	34	3.1 m
8	3.5	#15	16	1.8 m	#10	12	2.72 m	#15	24	4.9 m	#15	24	2.4 m	#15	24	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.2 m	#10	34	3.2 m
9	3.7	#15	16	1.8 m	#10	12	2.72 m	#15	24	4.9 m	#15	24	2.4 m	#15	24	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.4 m	#10	34	3.4 m
10	3.8	#15	16	1.8 m	#10	12	2.72 m	#15	26	4.9 m	#15	26	2.4 m	#15	26	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.6 m	#10	34	3.6 m
11	4.0	#15	16	1.8 m	#10	12	2.72 m	#15	26	4.9 m	#15	26	2.4 m	#15	26	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.7 m	#10	34	3.7 m
12	4.1	#15	16	1.8 m	#10	12	2.72 m	#15	28	4.9 m	#15	28	2.4 m	#15	28	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	3.9 m	#10	34	3.9 m
13	4.3	#15	16	1.8 m	#10	12	2.72 m	#15	28	4.9 m	#15	28	2.4 m	#15	28	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	4.0 m	#10	34	4.0 m
14	4.8	#15	16	1.8 m	#10	12	2.72 m	#15	32	4.9 m	#15	32	2.4 m	#15	32	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	4.6 m	#10	34	4.6 m
15	5.5	#15	16	1.8 m	#10	12	2.72 m	#15	36	4.9 m	#15	36	2.4 m	#15	36	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	5.3 m	#10	34	5.3 m
16	6.0	#15	16	1.8 m	#10	12	2.72 m	#15	40	4.9 m	#15	40	2.4 m	#15	40	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	5.9 m	#10	34	5.9 m
17	6.7	#15	16	1.8 m	#10	12	2.72 m	#15	44	4.9 m	#15	44	2.4 m	#15	44	3.3 m	#15	34	1.52 m	#10	34	1.09 m	#15	34	6.5 m	#10	34	6.5 m



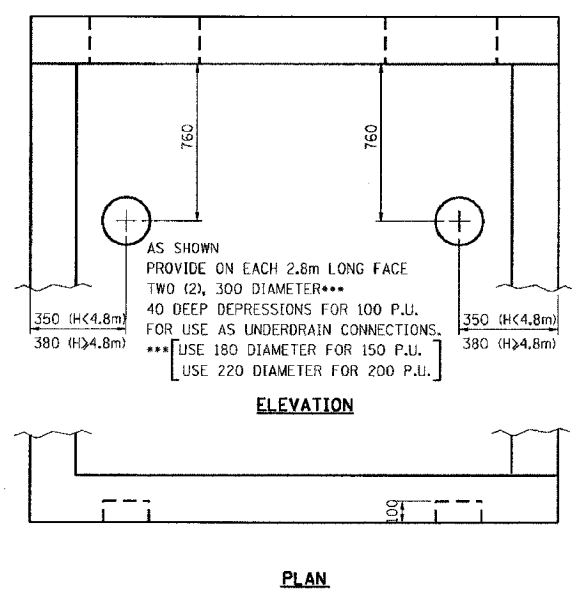
REINFORCED LID FOR TYPE 20 & 22 FRAME & GRATE

REINFORCED LID FOR TYPE 21 FRAME & GRATE (FOR USE IN SAG AREAS)



ELEVATION

PLAN

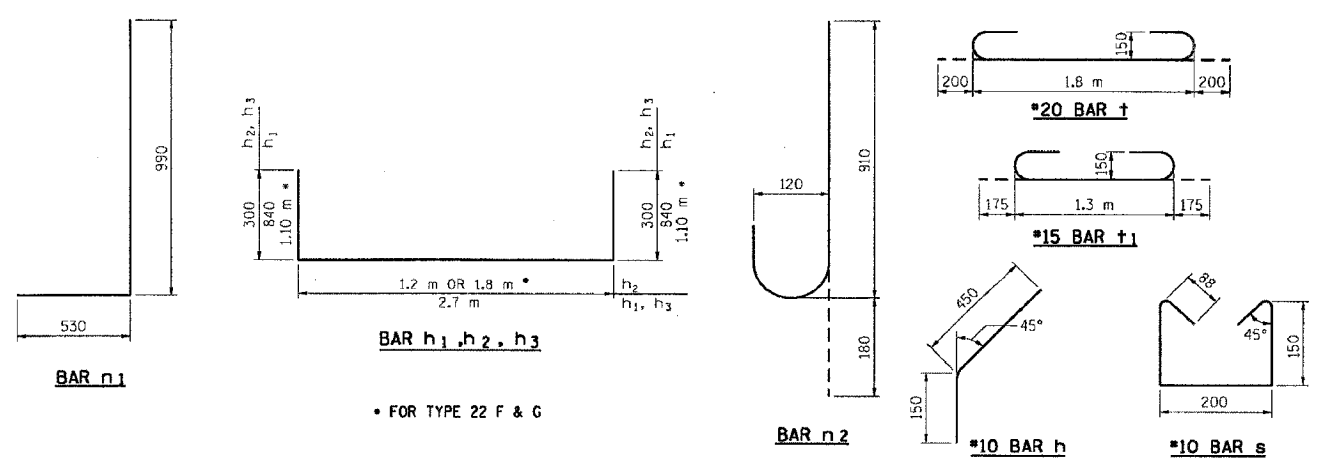


ELEVATION

PLAN

AS SHOWN PROVIDE ON EACH FACE ONE (1), 100 DEPRESSION FOR USE AS UNDERDRAIN CONNECTIONS. USE 120 DIAMETER FOR 100 P.U. 180 DIAMETER FOR 150 P.U. 220 DIAMETER FOR 200 P.U. REFER TO PLANS FOR SIZE & LOCATION OF PIPE UNDERDRAINS.

PIPE UNDERDRAIN CONNECTION DETAIL



BAR h<sub>1</sub>, h<sub>2</sub>, h<sub>3</sub>

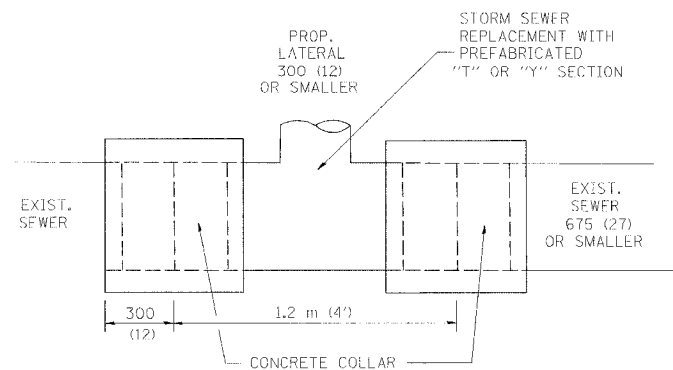
• FOR TYPE 22 F & G

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
NAME	DATE	

DRAINAGE STRUCTURES  
CATCH BASINS 2.4m x 0.9m & 2.4m x 1.5m  
FOR DEPTHS WHERE H > 2.4m  
SHEET 2 OF 2  
SCALE NONE  
DATE 03/03  
DRAWN BY ACE/CAD  
CHECKED BY

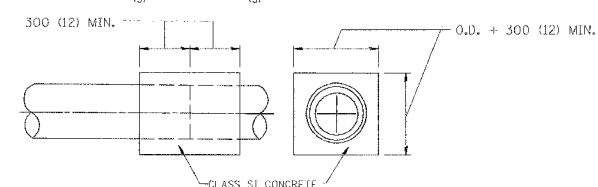
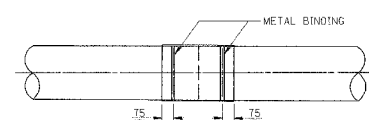
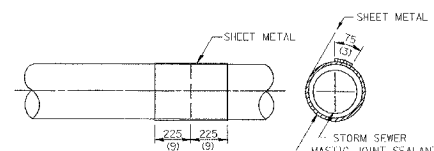
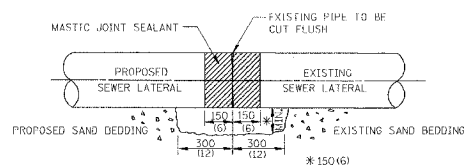
C:\Project\201\9880\DWG\Detail\155\_08.dwg Mod Wed 18 11:45:25 2003

P. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8094	2626.2-R-2	COOK/LAKE	1207	297A
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100887		



DETAIL "A"

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

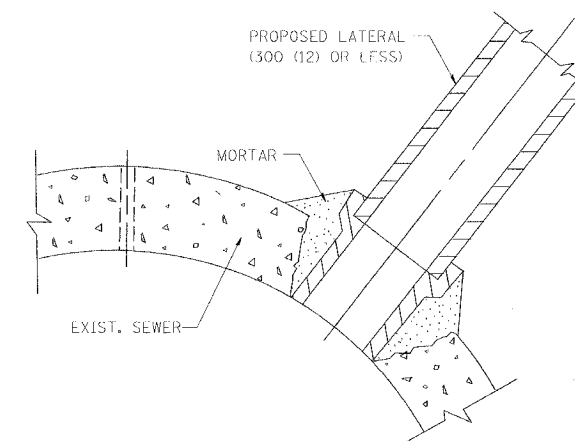


DETAIL "B"

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 150 (6) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 300 x 150 (12 x 6) DUMP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 450 (18) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 75 (3) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 225 (9) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 75 (3) 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 OZES 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 750 (30) 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 675 (27) OR SMALLER SEE DETAIL "A" AND "B".
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 750 (30) 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 MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

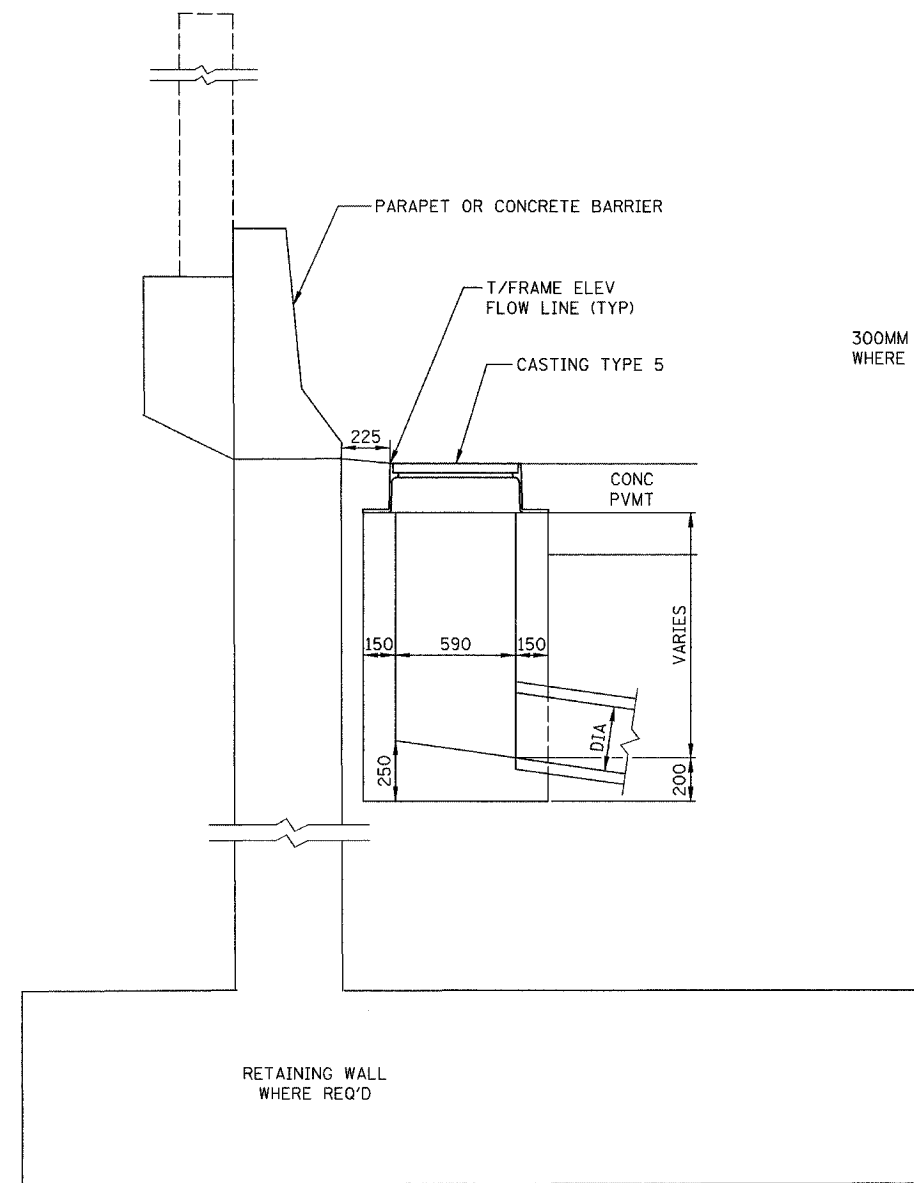
REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

SCALE: NONE  
DATE: ##DATE##

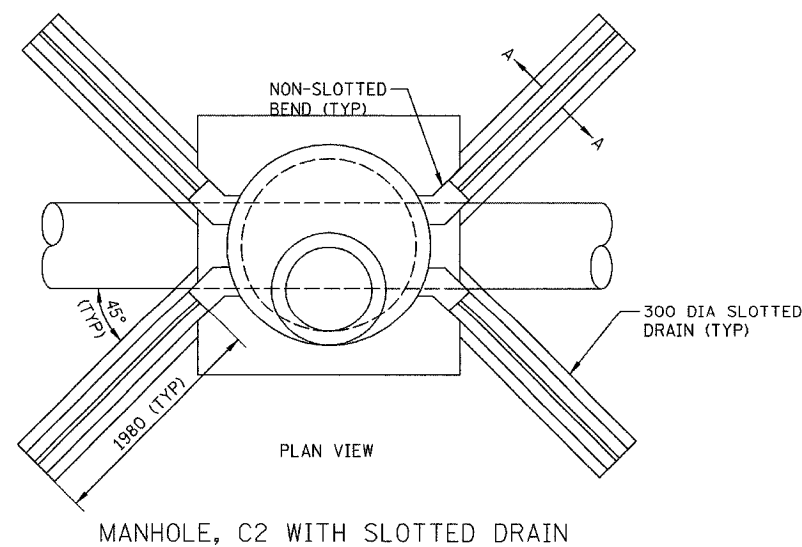
DRAWN BY CADD  
CHECKED BY

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

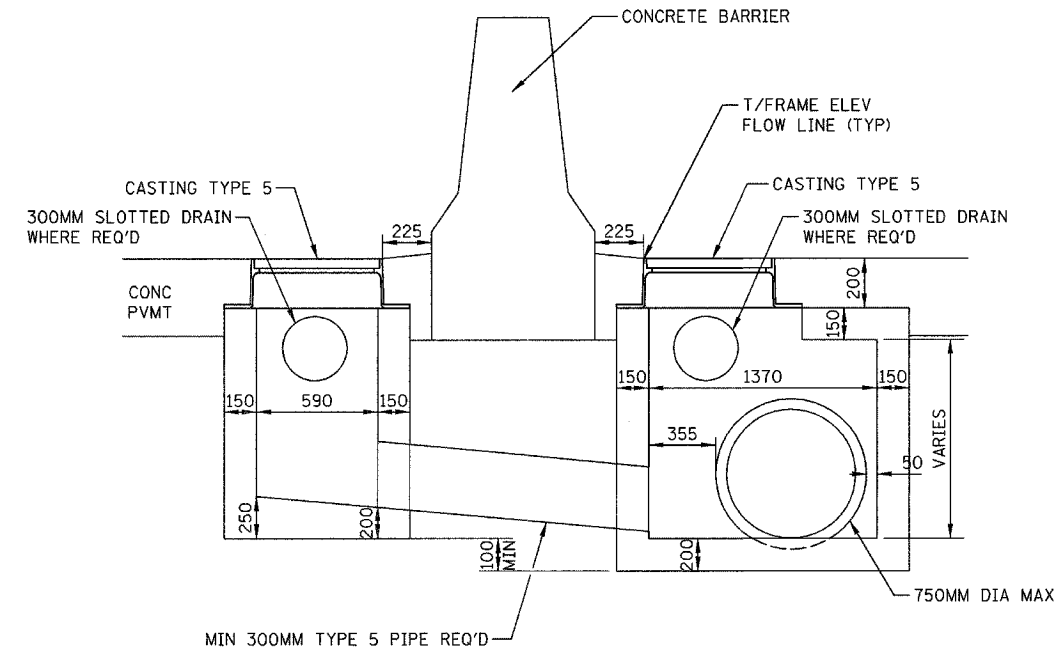
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	298
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



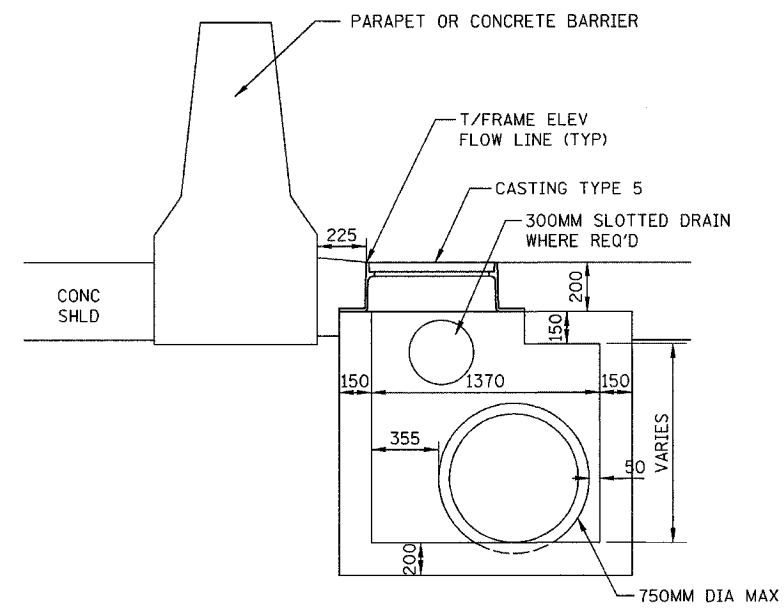
INLET TYPE "HA", MODIFIED



MANHOLE, C2 WITH SLOTTED DRAIN



INLET TYPE "H", SPECIAL



INLET TYPE "HA", SPECIAL

NOTES:

1. STATION AND OFFSET FOR INLET TYPE "H" IS TO THE CENTER OF THE BARRIER WALL.
2. STATION AND OFFSET FOR INLET TYPE "HA" IS TO THE CENTER OF THE DRAINAGE STRUCTURE.
3. SEE STANDARD DRAWING 720-INST-05B FOR SECTION A-A.
4. FOR DETAILS OF MANHOLE, C2 WITH SLOTTED DRAIN SEE STANDARD 720-MHST-02.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

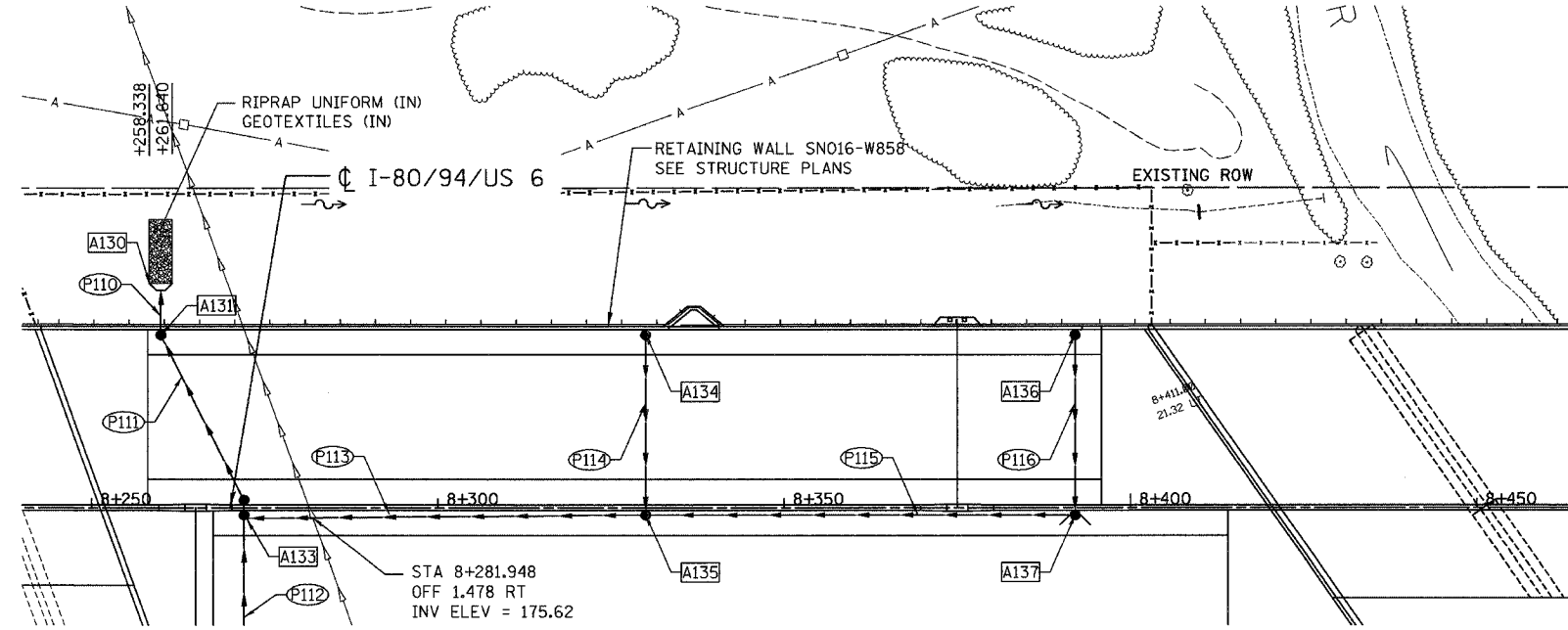
INDIANA DRAINAGE STRUCTURES

SCALE NTS DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE

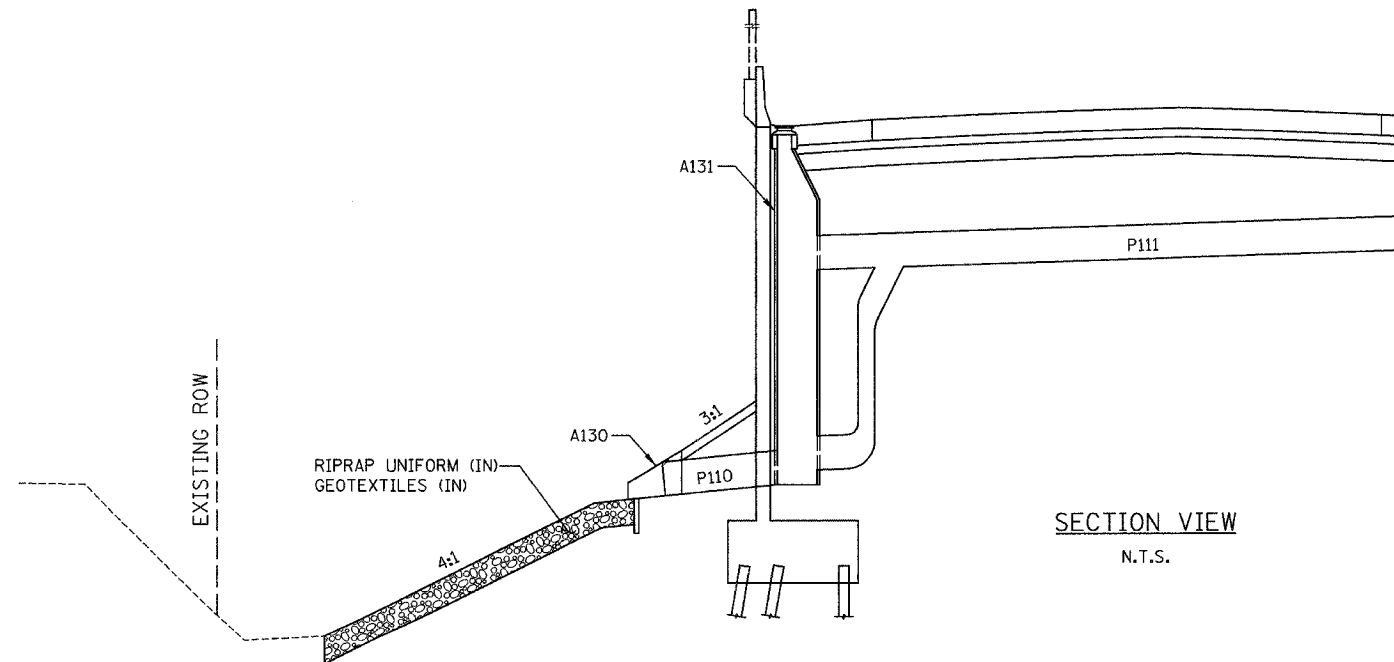
**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	299
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PLAN VIEW



SECTION VIEW  
N.T.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

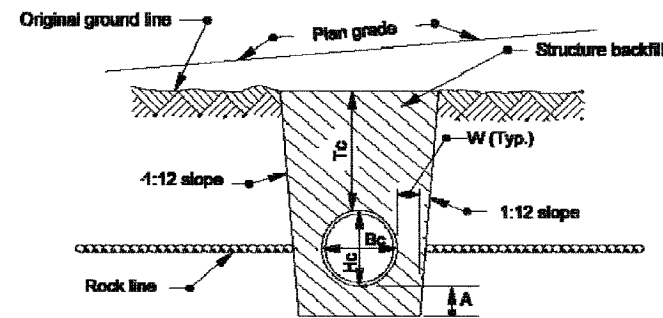
**DRAINAGE OUTFALL DETAIL**

SCALE 1:500  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY TAE



REVISIONS	
NAME	DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	300
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



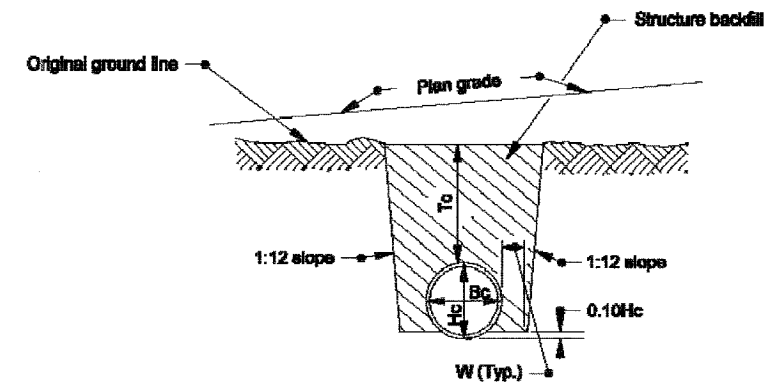
SECTION B-B  
ROCK FOUNDATION

LEGEND

- Hc = Overall diameter or rise (Typ.)
- Bc = Overall diameter or span
- A = 200 min. for fill height up to 5.0 m  
= 300 min. for fill height of 5.0 m or more
- Tc = Trench cover depth
- W = 0.3 Bc or 230, whichever is greater
- ⑦ E = Encasement

NOTE

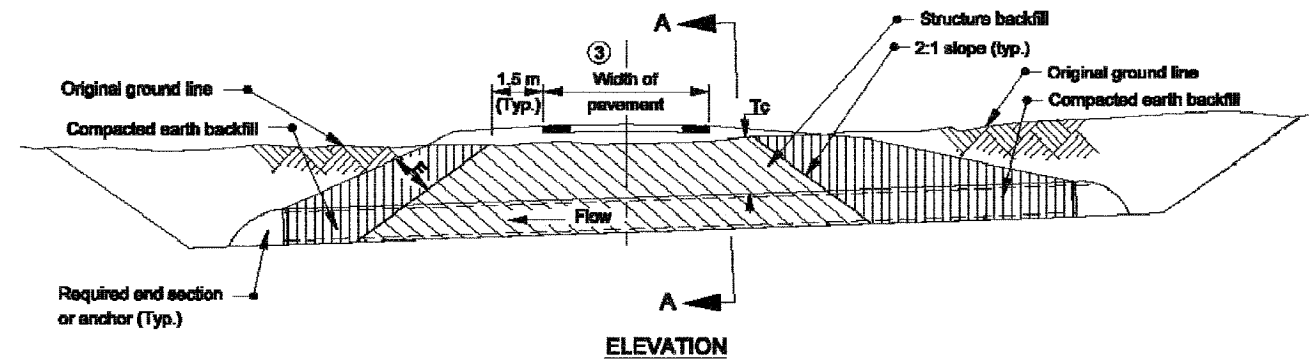
1. Refer to Standard Drawing 715-BKFL-09 for general notes.



SECTION B-B

METHOD 1 BACKFILL

Structures under mainline pavement and public road approaches.



ELEVATION

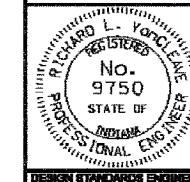
All Dimension are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE STRUCTURE BACKFILL  
TRENCH INSTALLATIONS

SEPTEMBER 2005

STANDARD DRAWING NO. 715-BKFL-03



/s/ Richard L. VanCleave 9-01-05  
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-01-05  
CHIEF HIGHWAY ENGINEER DATE