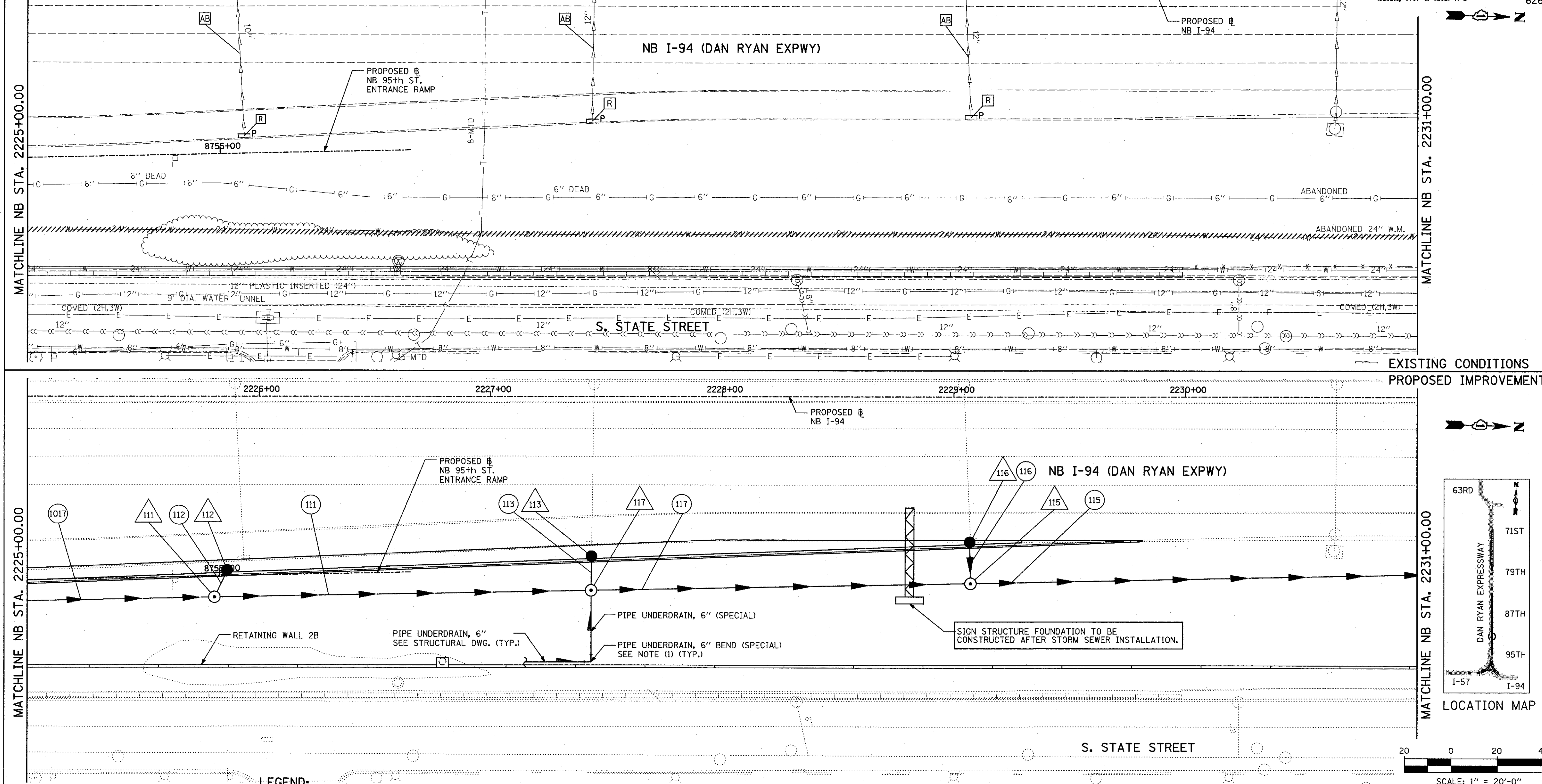
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	201
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TYLIN INTERNATIONAL

SHEET 11 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

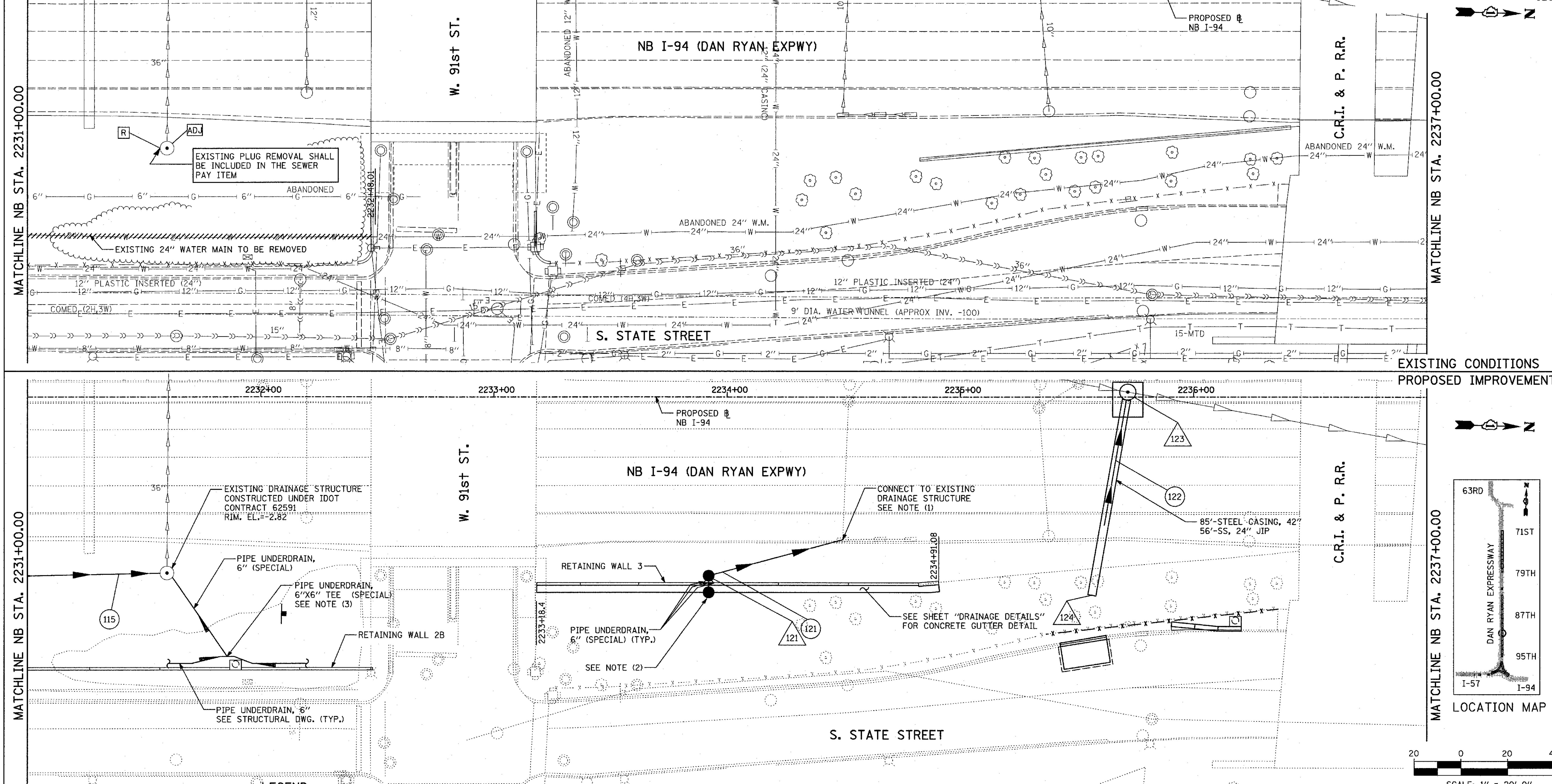
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PLANS
NB 95th STREET ENTRANCE RAMP
NB I-94 STA. 2225+00.00 TO 2231+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

05/05/2005 05:03:46 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	202
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694



LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.
2. INSTALL CONCRETE GUTTER OUTLET AS SHOWN ON THE "DRAINAGE DETAILS" SHEETS.
3. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

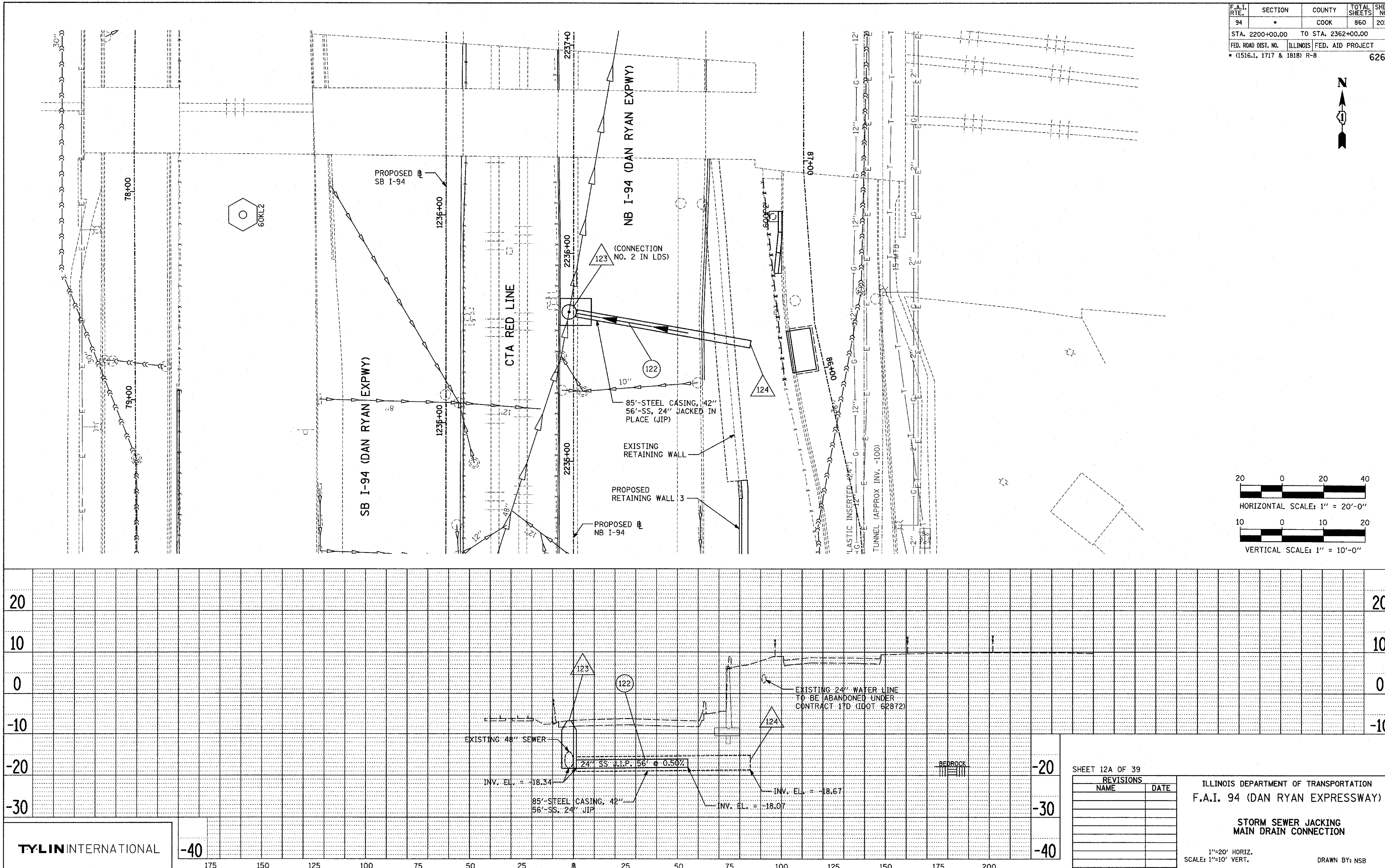
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PLANS
NB 95th STREET ENTRANCE RAMP
NB I-94 STA. 2231+00.00 TO 2237+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	202A
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8 62694



TYLIN INTERNATIONAL

SHEET 12A OF 39

REVISIONS NAME	DATE
REVISED	05/06/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

STORM SEWER JACKING
MAIN DRAIN CONNECTION

SCALE: 1"=20' HORIZ. 1"=10' VERT.

DATE: MARCH 18, 2005

DRAWN BY: NSB

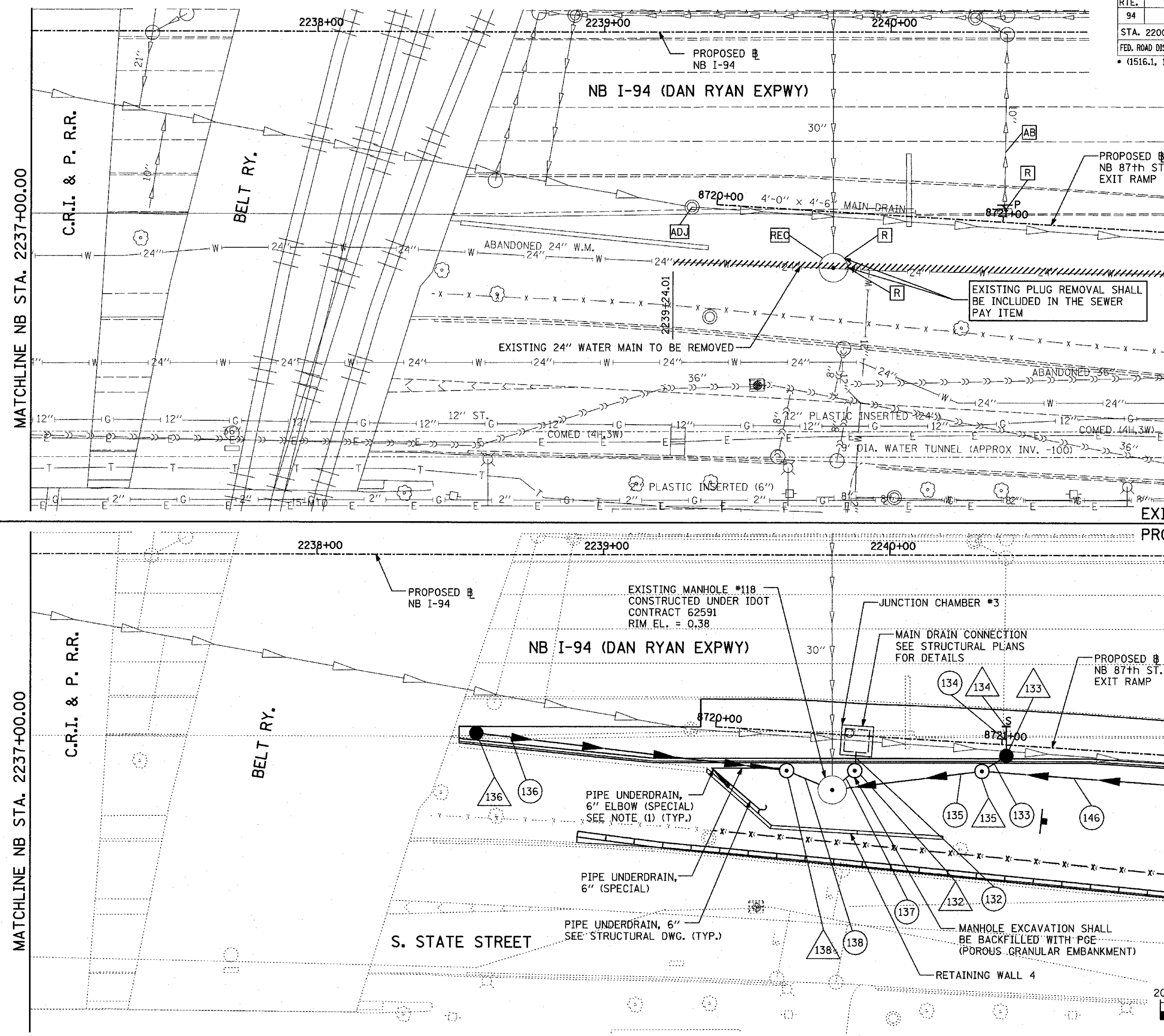
CHECKED BY: DA

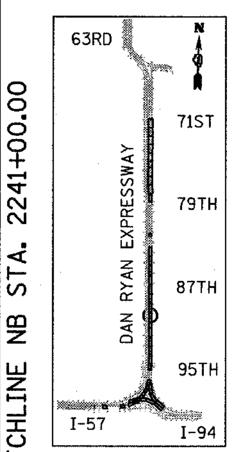
4/29/2005 10:36:30 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	203
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TYLIN INTERNATIONAL

SHEET 13 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

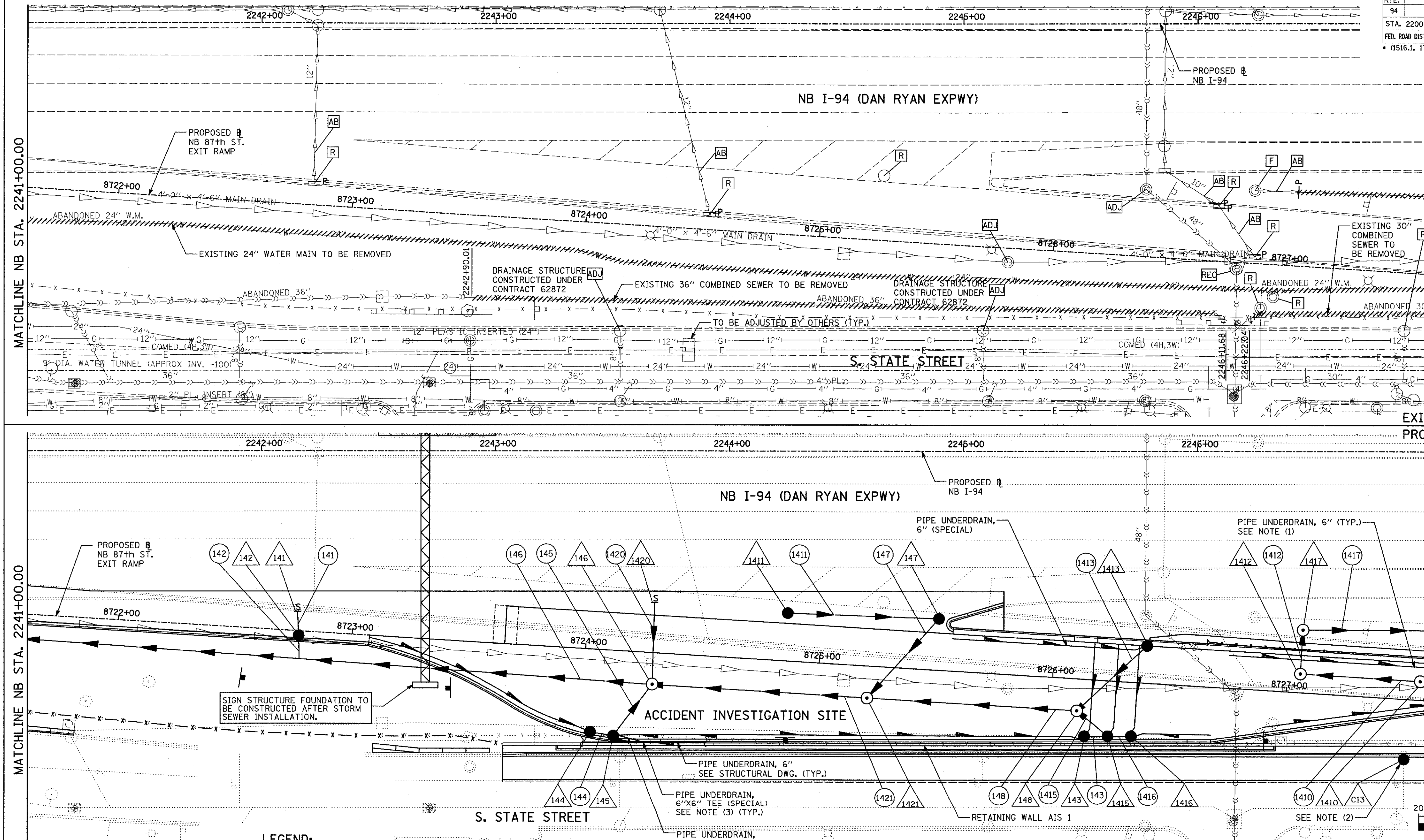
F.A.I. 94 (DAN RYAN EXPRESSWAY)

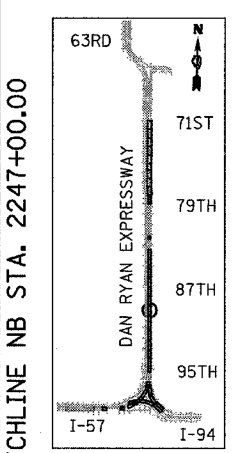
DRAINAGE AND UTILITY PLANS
NB 87th STREET EXIT RAMP
NB I-94 STA. 2237+00.00 TO 2241+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

05/05/2005 05:05:01 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	204
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- (XY) PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TY·LIN INTERNATIONAL

SHEET 14 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

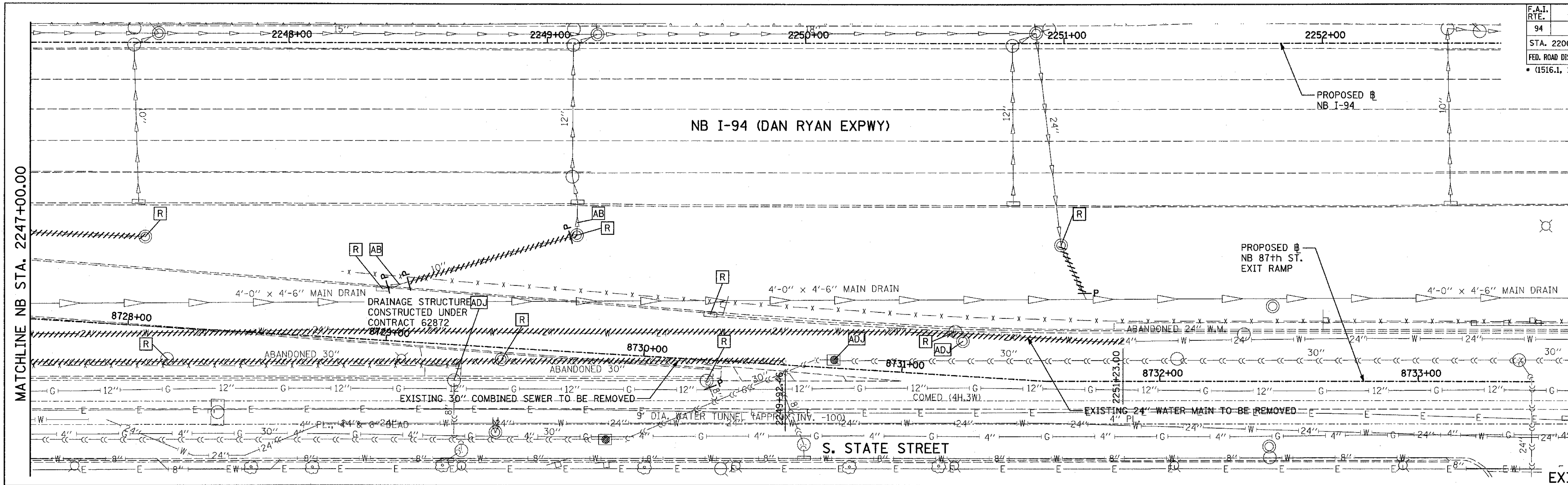
F.A.I. 94 (DAN RYAN EXPRESSWAY)

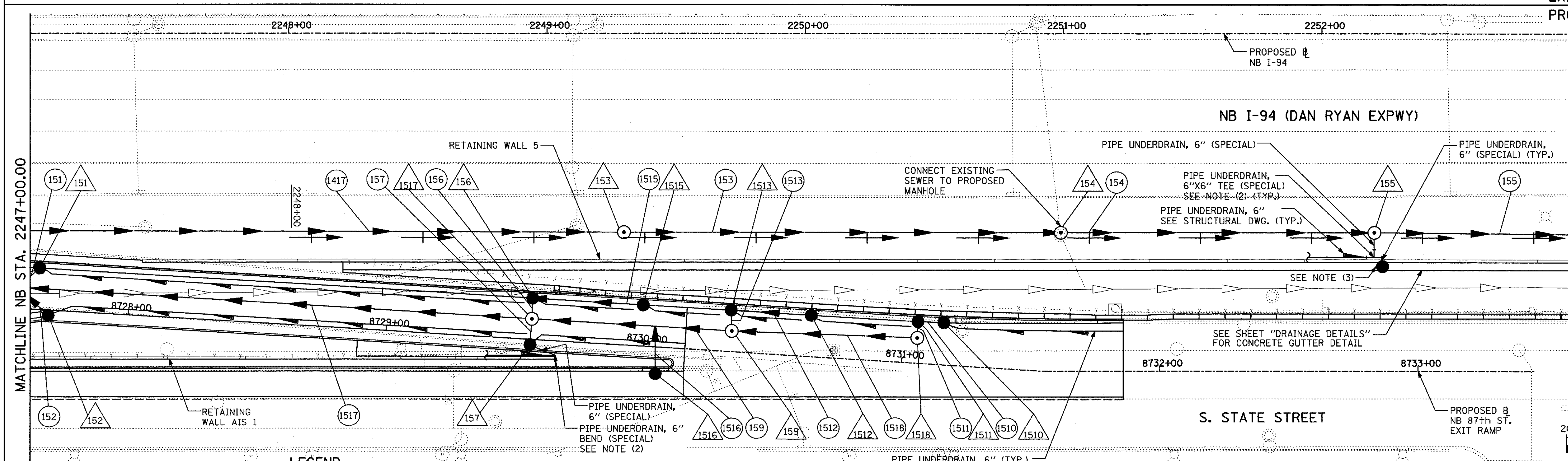
DRAINAGE AND UTILITY PLANS
NB 87th STREET EXIT RAMP
NB I-94 STA. 2241+00.00 TO 2247+00.00

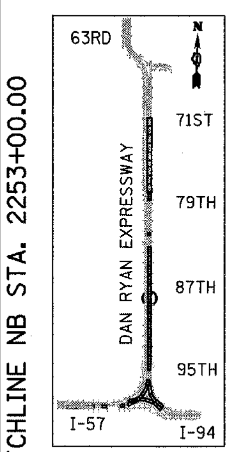
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	205
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8 62694







LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).
3. INSTALL CONCRETE GUTTER OUTLET AS SHOWN ON THE "DRAINAGE DETAILS" SHEETS.

TYLIN INTERNATIONAL

SHEET 15 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

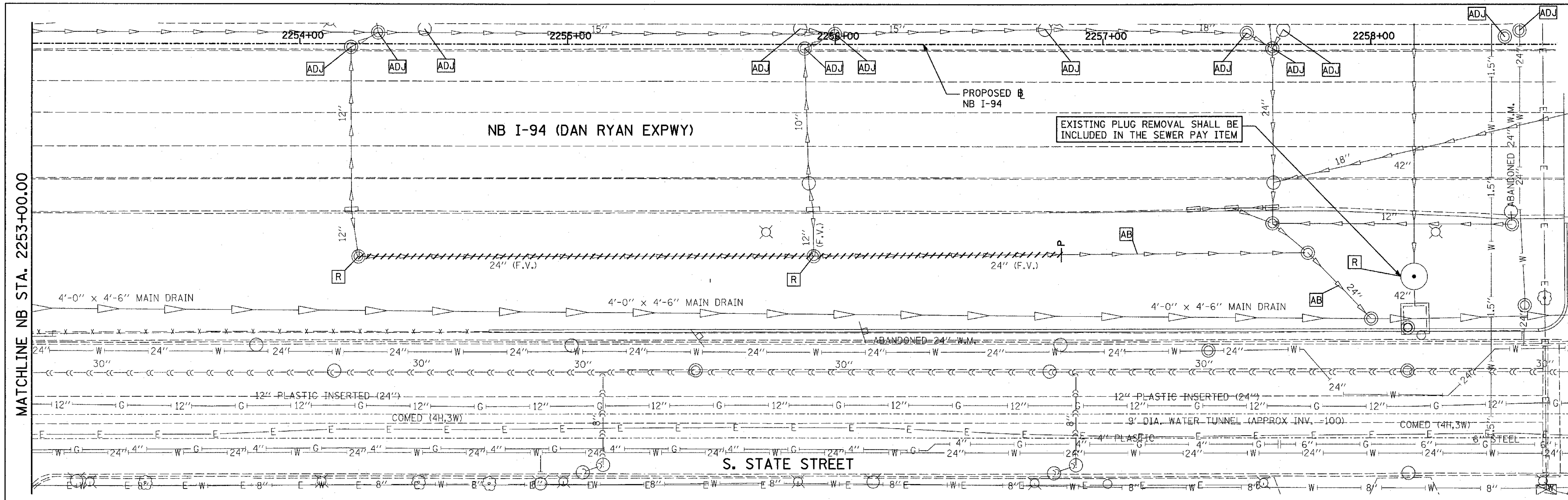
DRAINAGE AND UTILITY PLANS
NB 87th STREET EXIT RAMP
NB I-94 STA. 2247+00.00 TO 2253+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	206
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT			

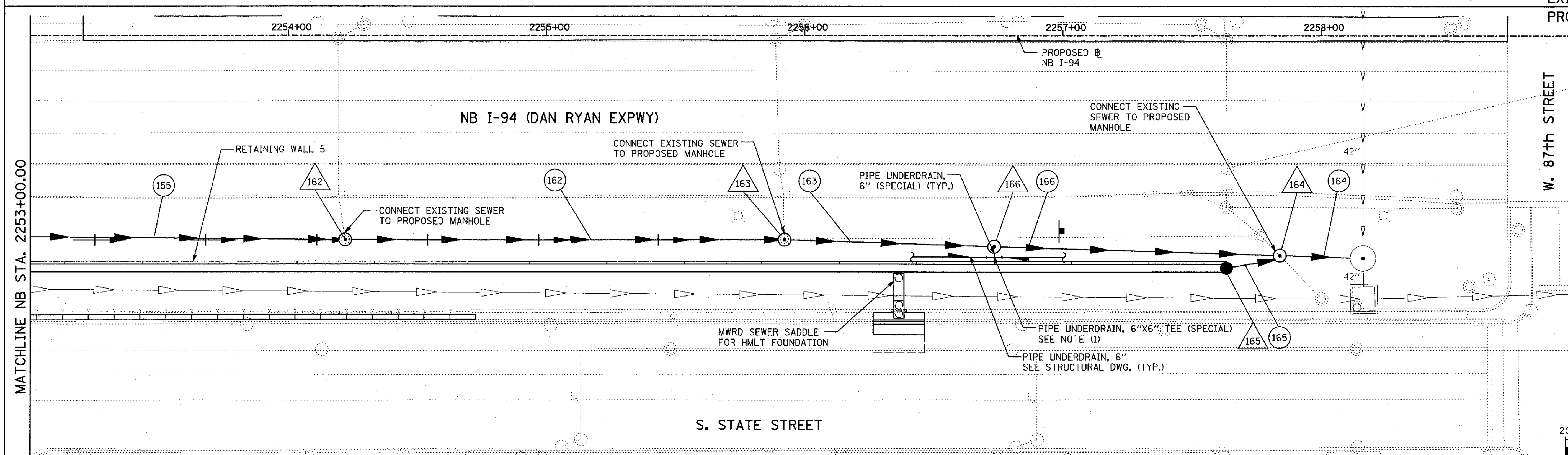
• (1516.1, 1717 & 1818) R-8

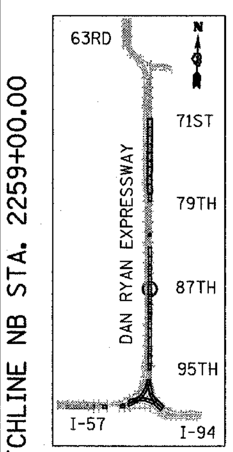
62694



EXISTING CONDITIONS

PROPOSED IMPROVEMENTS





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TYLIN INTERNATIONAL

SHEET 16 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PLANS
NB 87th STREET EXIT RAMP
NB I-94 STA. 2253+00.00 TO 2259+00.00

SCALE: 1"=20' DRAWN BY: MB

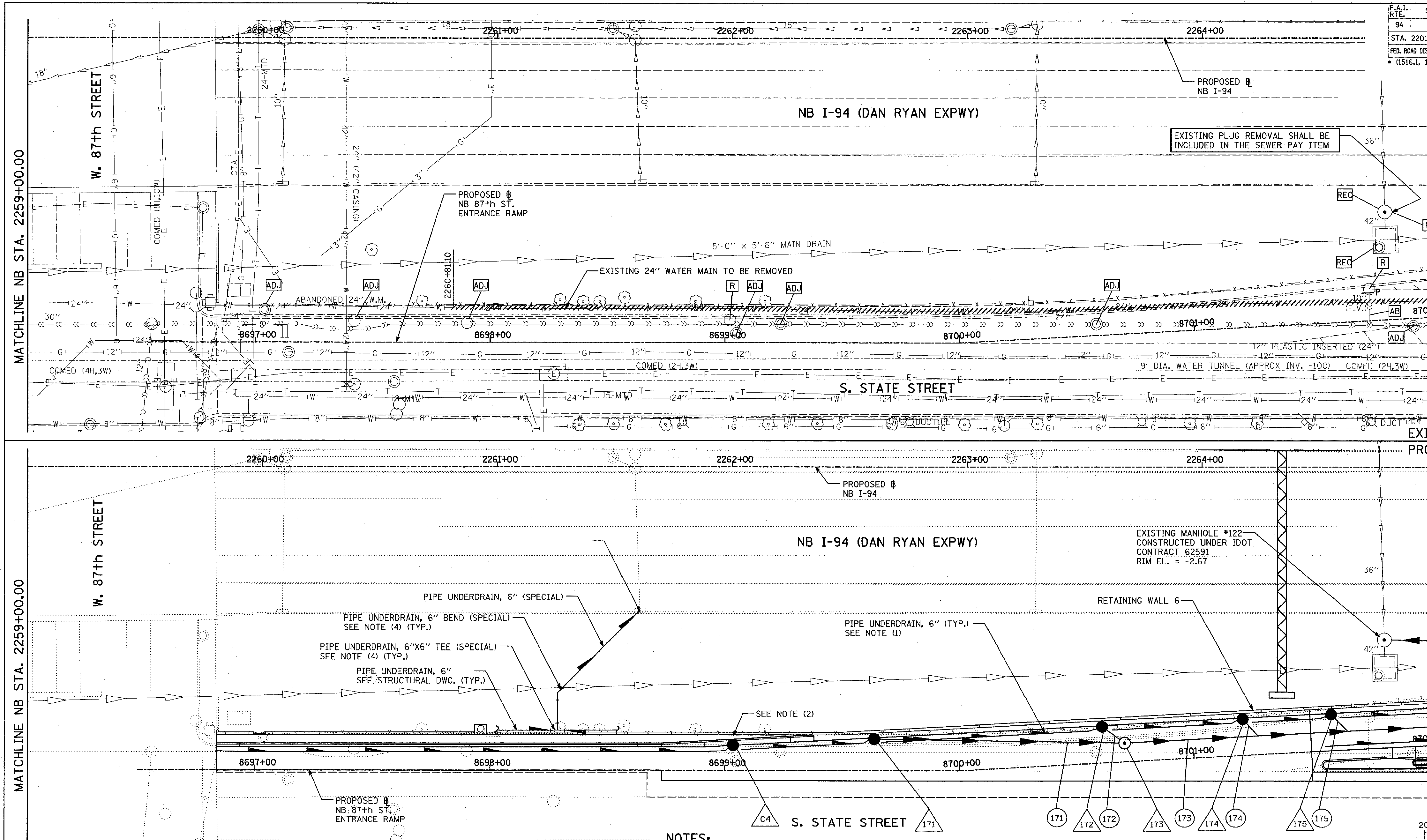
DATE: MARCH 18, 2005 CHECKED BY: DA

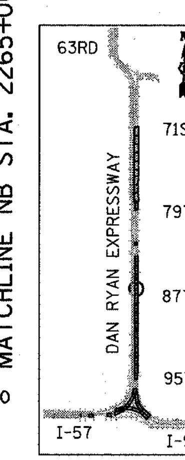
4/13/2005 12:49:48 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	207
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.
4. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).
5. "FOR "POROUS GRANULAR EMBANKMENT,SUBGRADE" REQUIRED DURING SEWER INSTALLATION, SEE SCHEDULE OF QUANTITIES." PROPOSED QUANTITIES - SHEET 5.

TYLIN INTERNATIONAL

SHEET 17 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

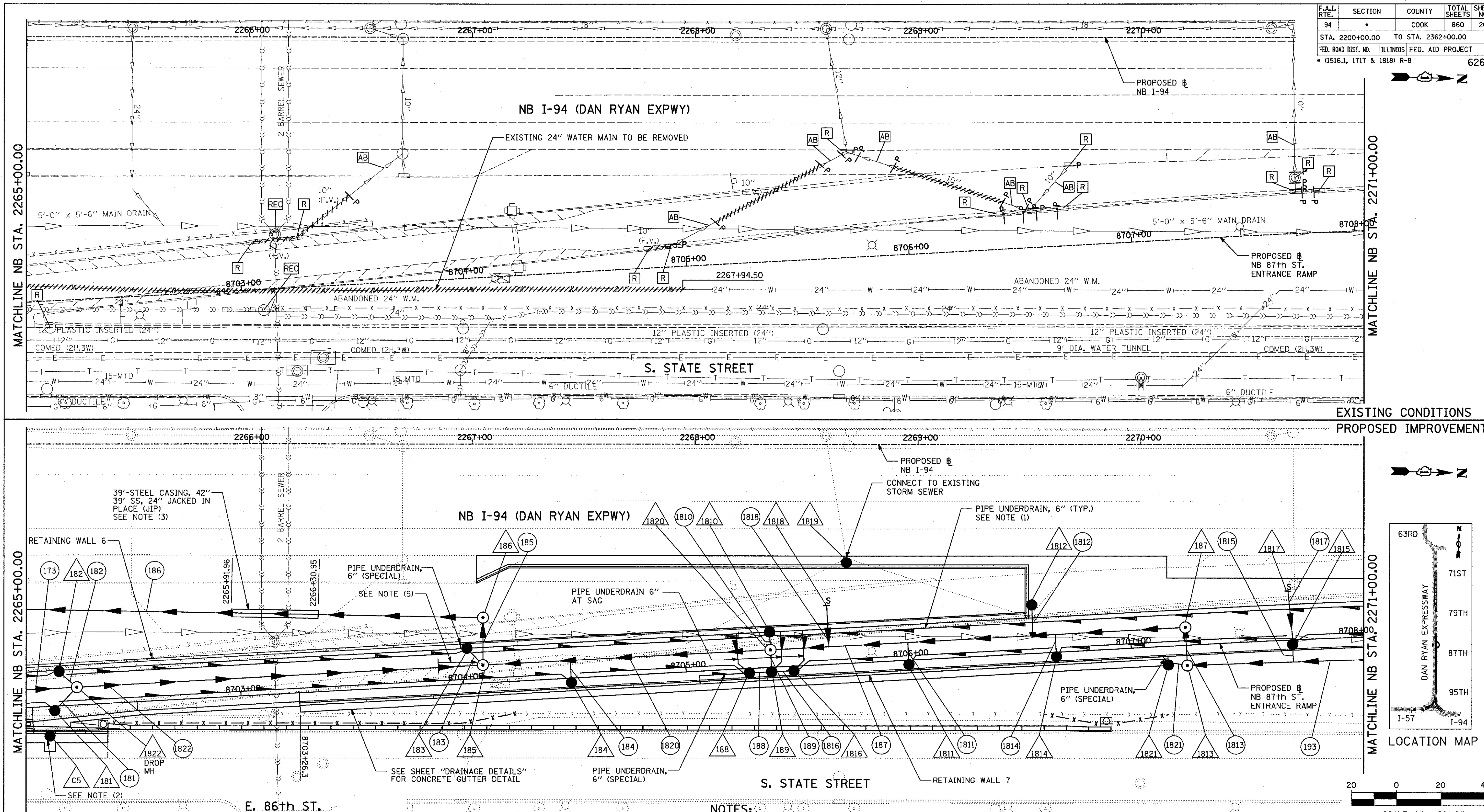
DRAINAGE AND UTILITY PLANS
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2259+00.00 TO 2265+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	208
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CDWM COMBINED SEWER. ~~EXISTING SEWER TO BE VIDEO TAPED BEFORE AND AFTER CONSTRUCTION.~~ ALL WORK SHALL BE COORDINATED WITH THE CITY OF CHICAGO.
4. "FOR "POROUS GRANULAR EMBANKMENT, SUBGRADE" REQUIRED DURING SEWER INSTALLATION, SEE SCHEDULE OF QUANTITIES." PROPOSED QUANTITIES - SHEET 5.
5. CONCRETE ENCASE SEWER 1822 FROM STA. 8703+89.12 TO STA. 8704+09.12 (+/- 20'). COST SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN SEWER PAY ITEM.

SHEET 18 OF 39

REVISIONS	
NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

T·Y·LIN INTERNATIONAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PLANS
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2265+00.00 TO 2271+00.00

SCALE: 1"=20' — DRAWN BY: MB
DATE: MARCH 18, 2005 — CHECKED BY: DA

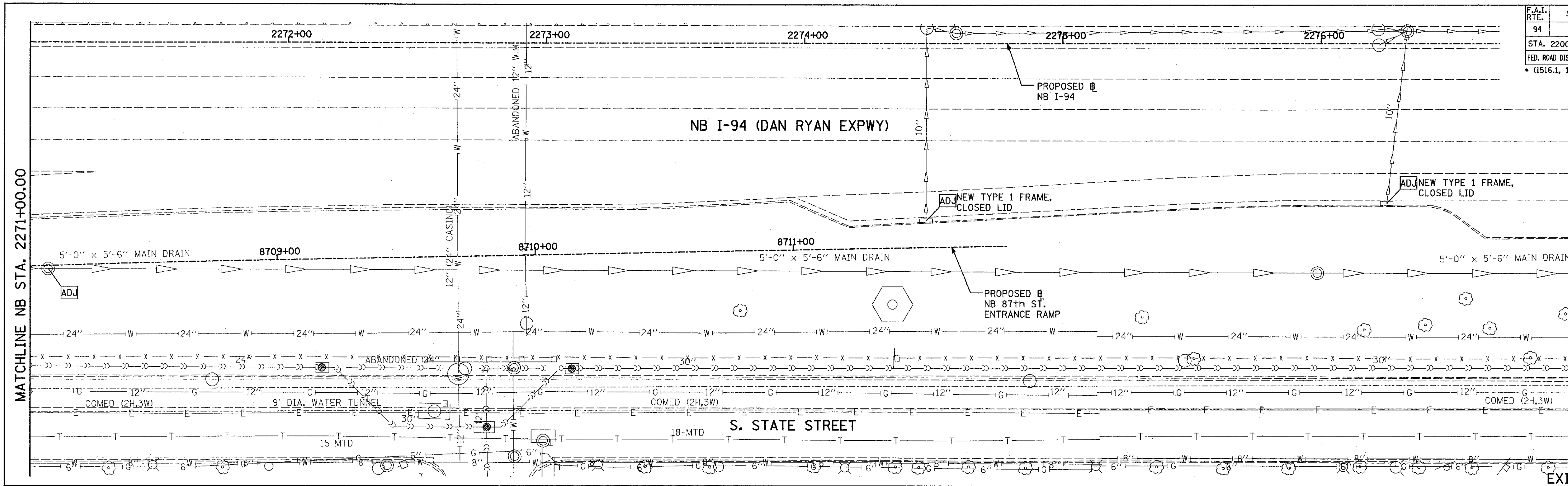
05/05/2005 05:06:27 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	209
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

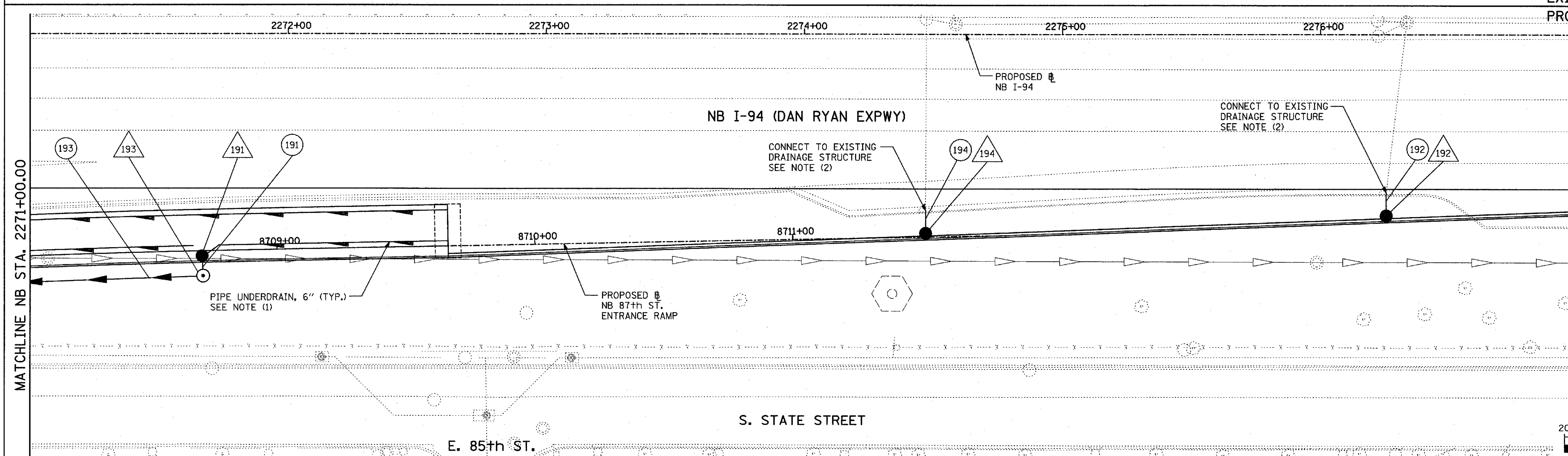
• (1516.1, 1717 & 1818) R-8

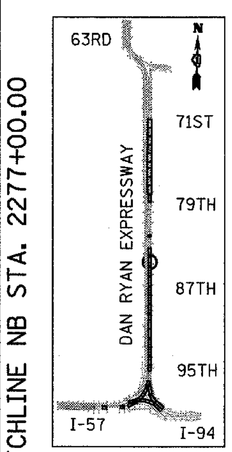
62694

EXISTING CONDITIONS



PROPOSED IMPROVEMENTS





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

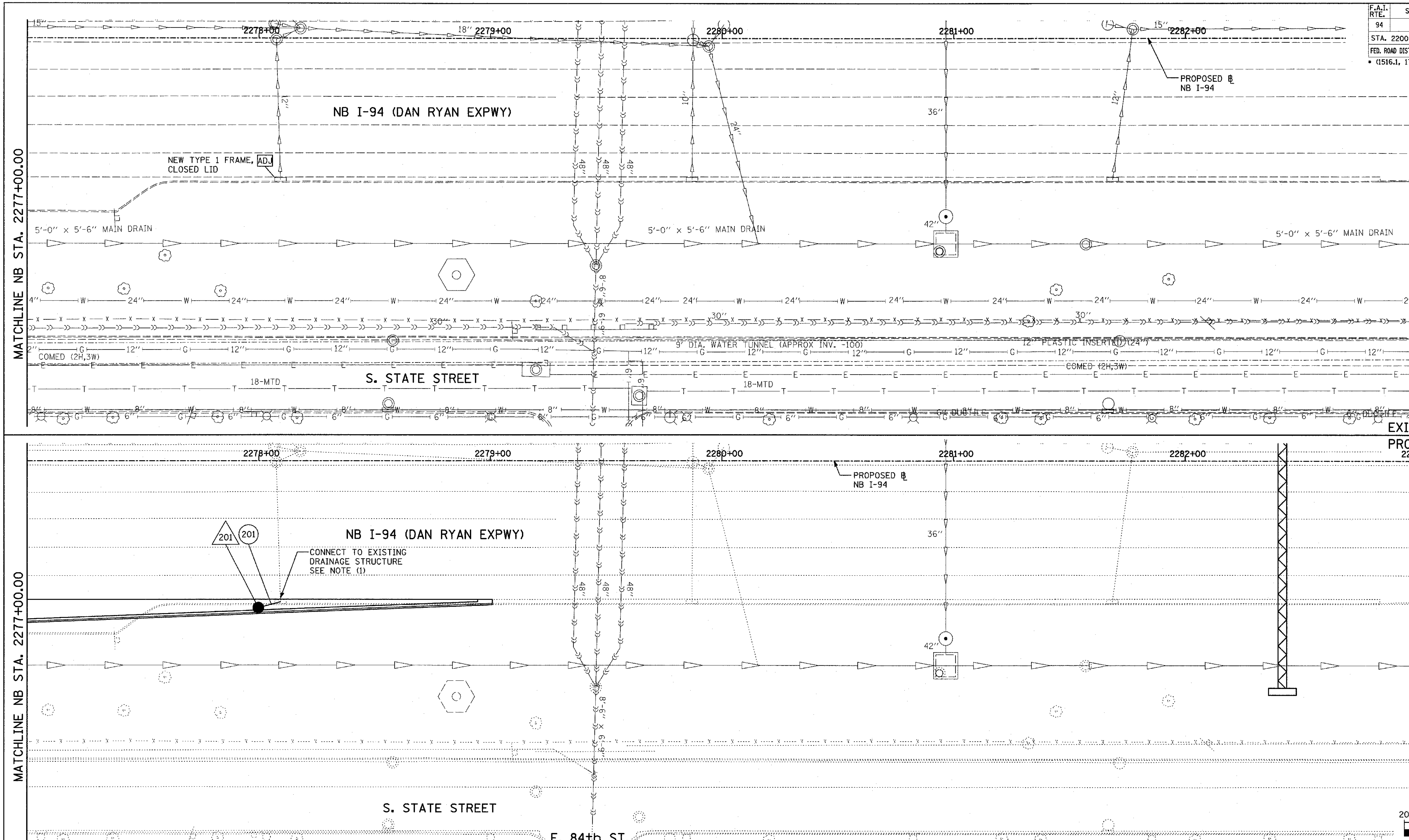
DRAINAGE AND UTILITY PLANS
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2271+00.00 TO 2277+00.00

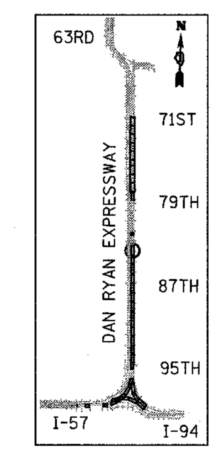
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	210
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.

TYLIN INTERNATIONAL

SHEET 20 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PLANS
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2277+00.00 TO 2279+00.87

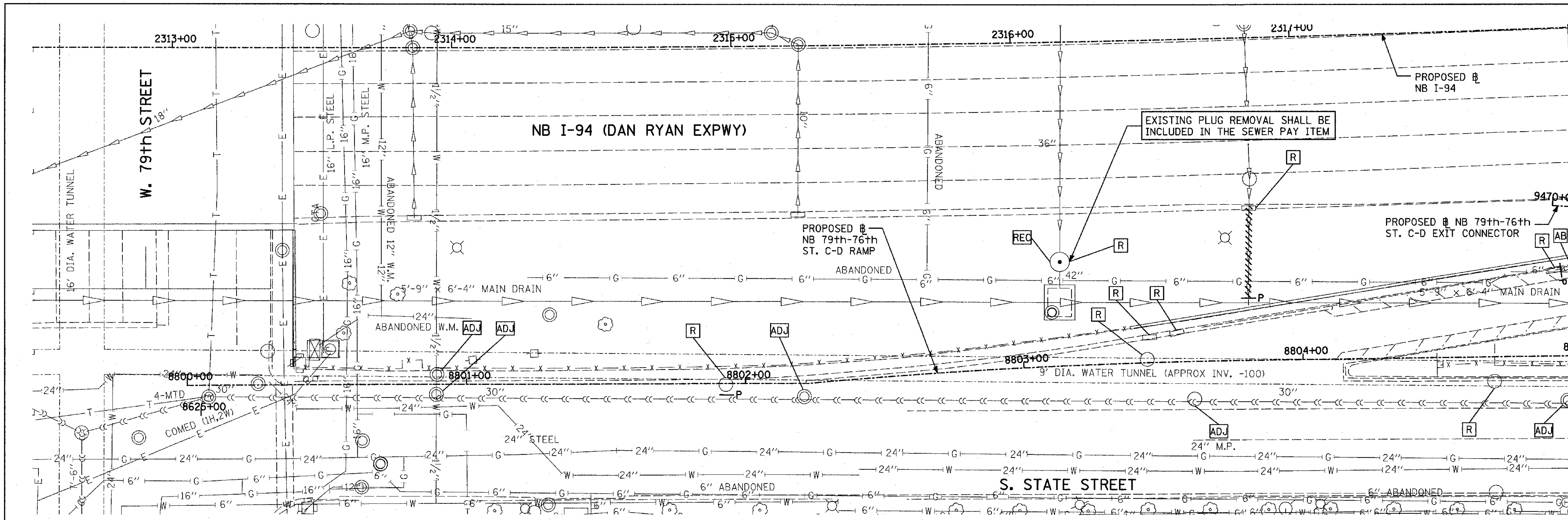
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	211

STA. 2200+00.00 TO STA. 2362+00.00

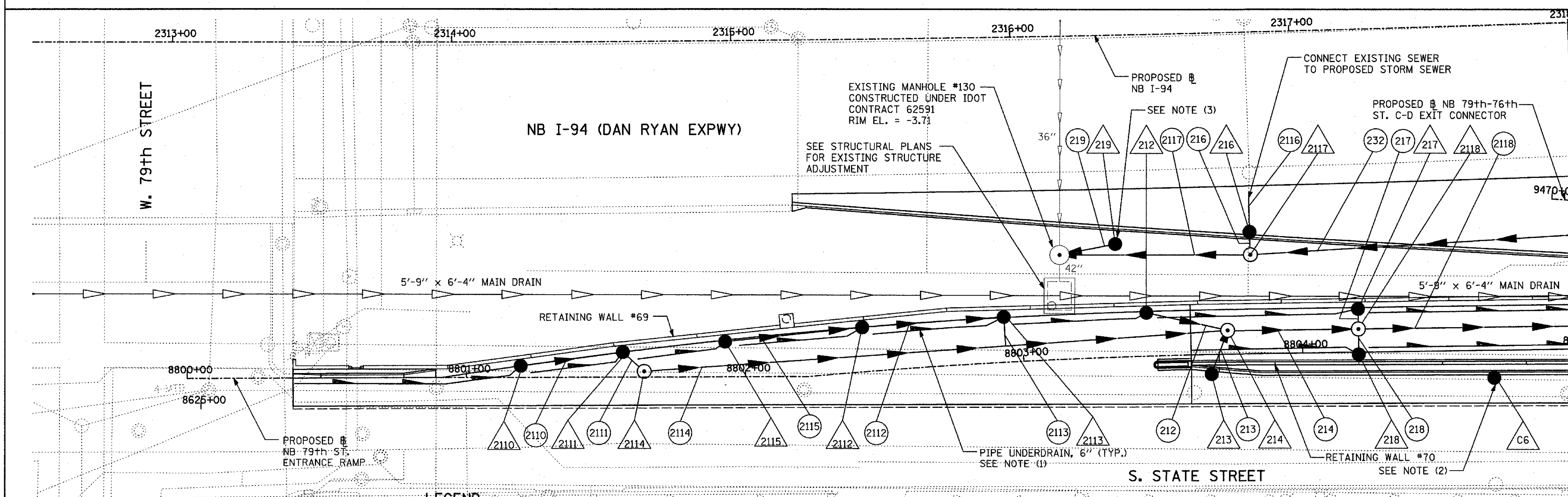
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

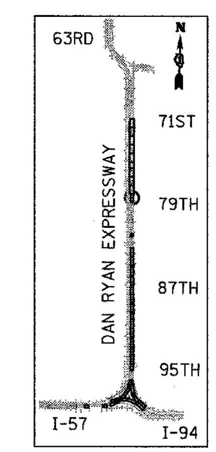
• (1516.1, 1717 & 1818) R-8 62694



EXISTING CONDITIONS

PROPOSED IMPROVEMENTS





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- (XY) PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. PROPOSED AREA DRAIN TO COLLECT FLOW BETWEEN RETAINING WALL AND TEMPORARY CURB AND GUTTER. SEE SCHEDULE FOR DETAILS.

TYLIN INTERNATIONAL

SHEET 21 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

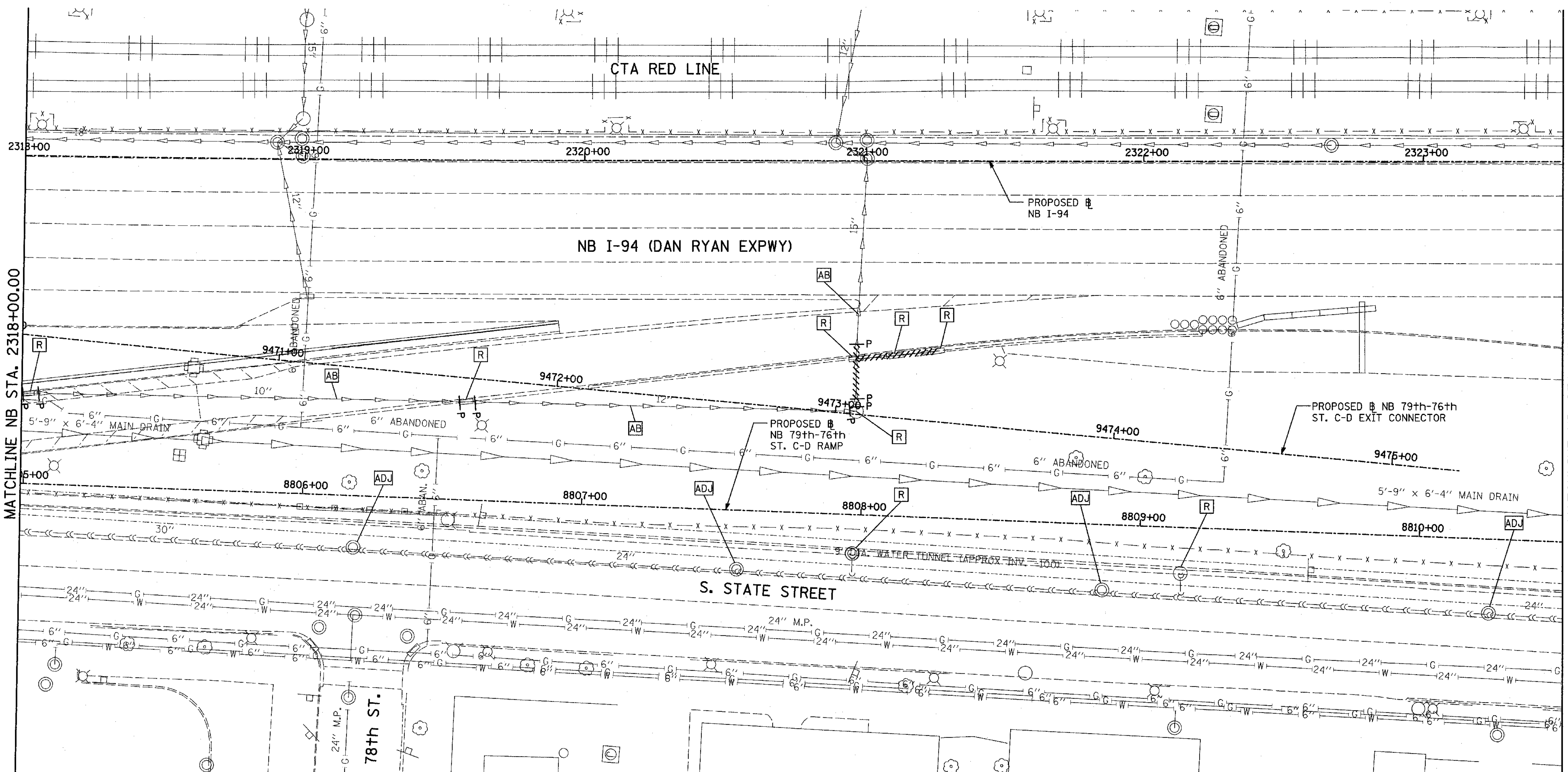
DRAINAGE AND UTILITY PLANS
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2313+43.22 TO 2318+00.00

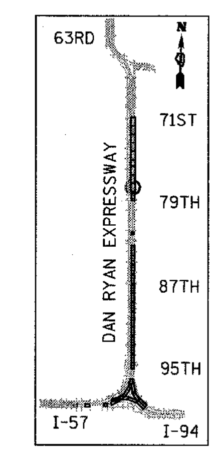
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	212
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- (XY) PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 22 OF 39

REVISIONS	
NAME	DATE
REVISED	04/15/05

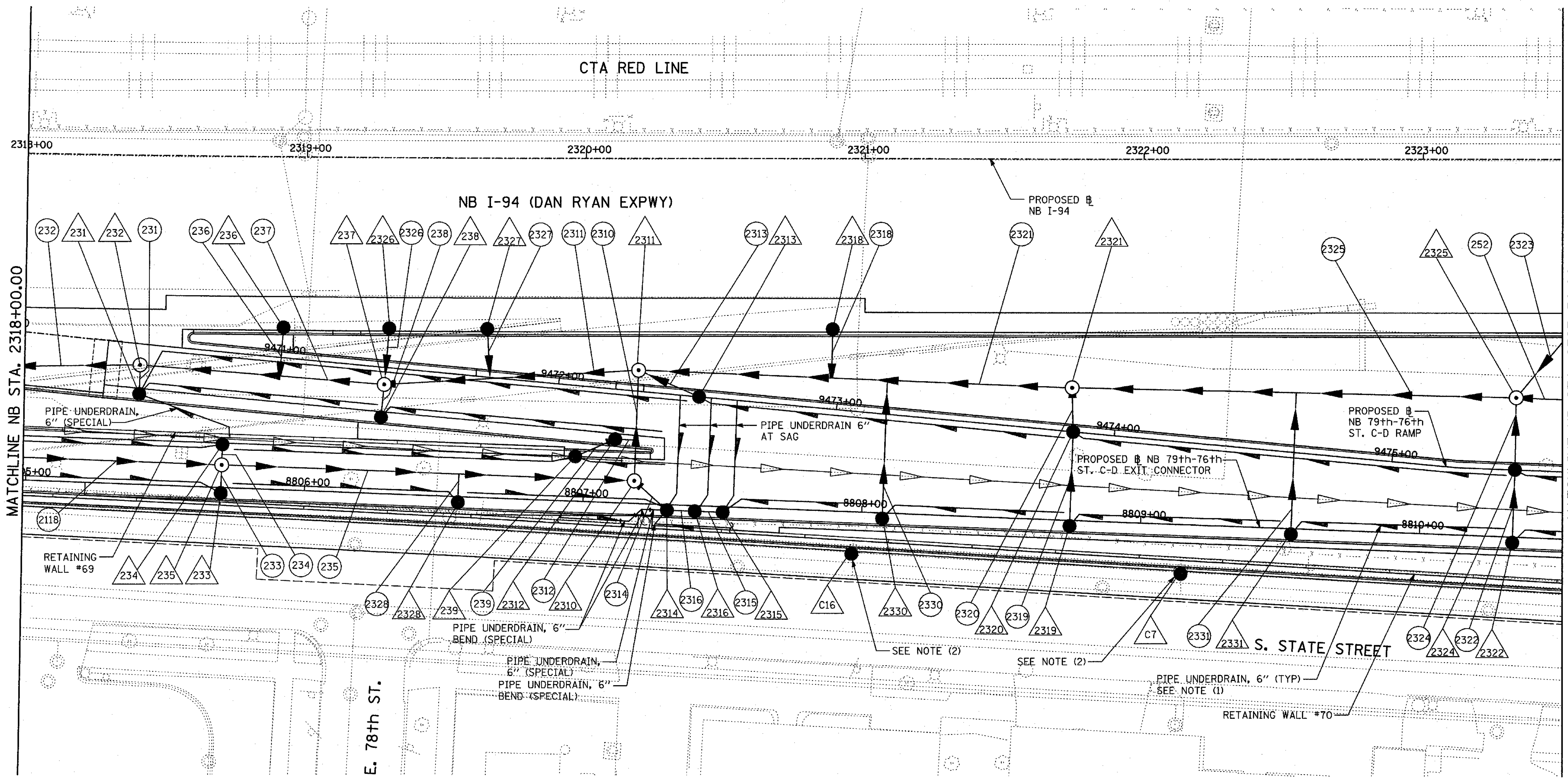
ILLINOIS DEPARTMENT OF TRANSPORTATION

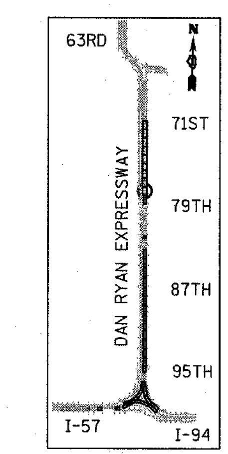
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY EXISTING PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2318+00.00 TO 2323+50.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	213
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).

T·Y·LIN INTERNATIONAL

SHEET 23 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PROPOSED PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2318+00.00 TO 2323+50.00

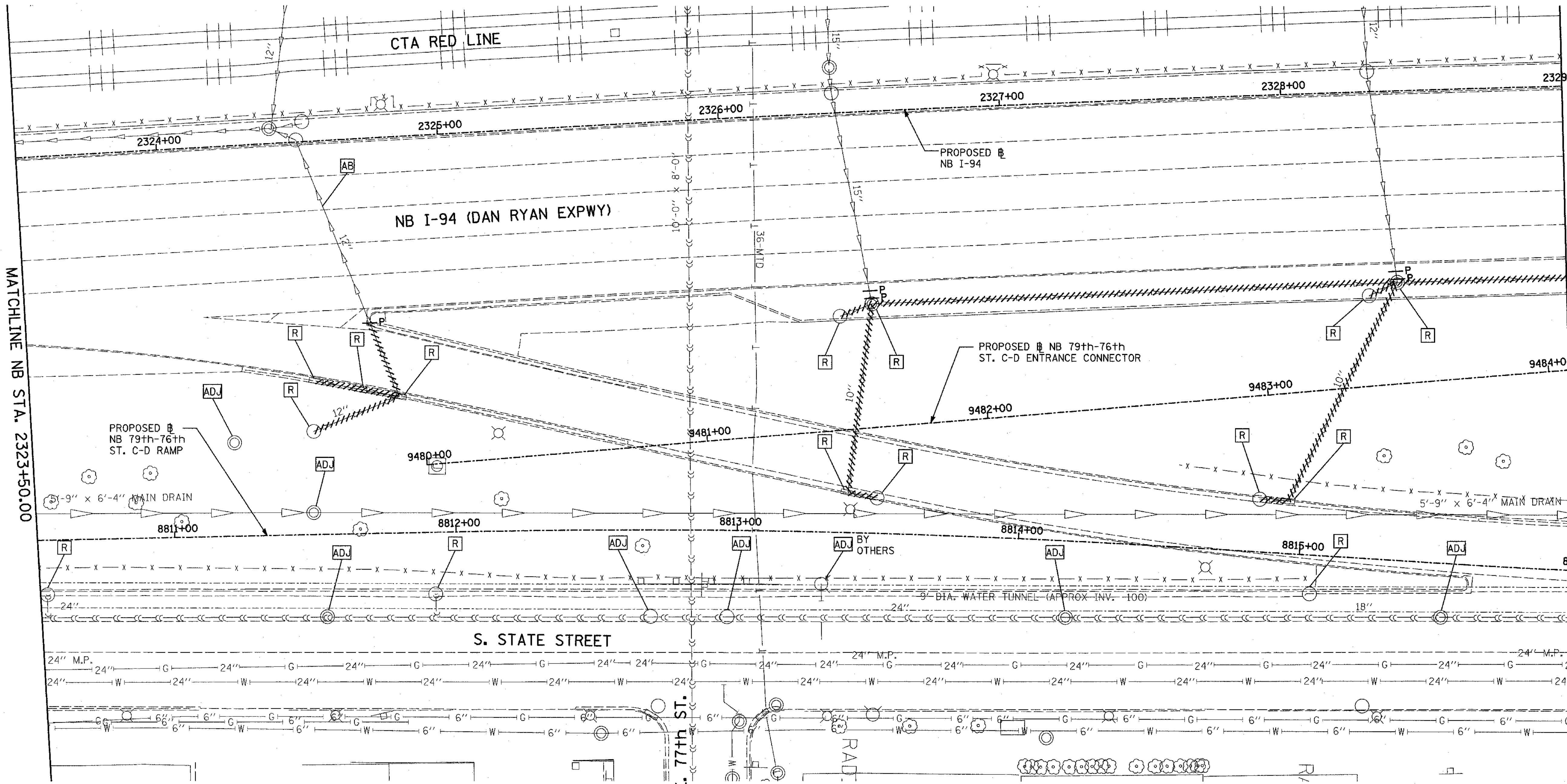
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

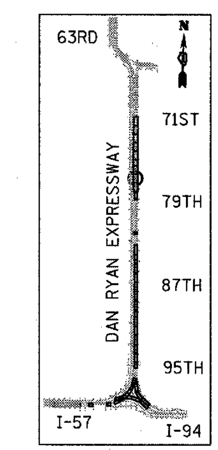
4/13/2005 12:31:50 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	214
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLININTERNATIONAL

SHEET 24 OF 39

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY EXISTING PLAN NB 79th TO 76th STREET C-D RAMP NB I-94 STA. 2323+50.00 TO 2329+00.00

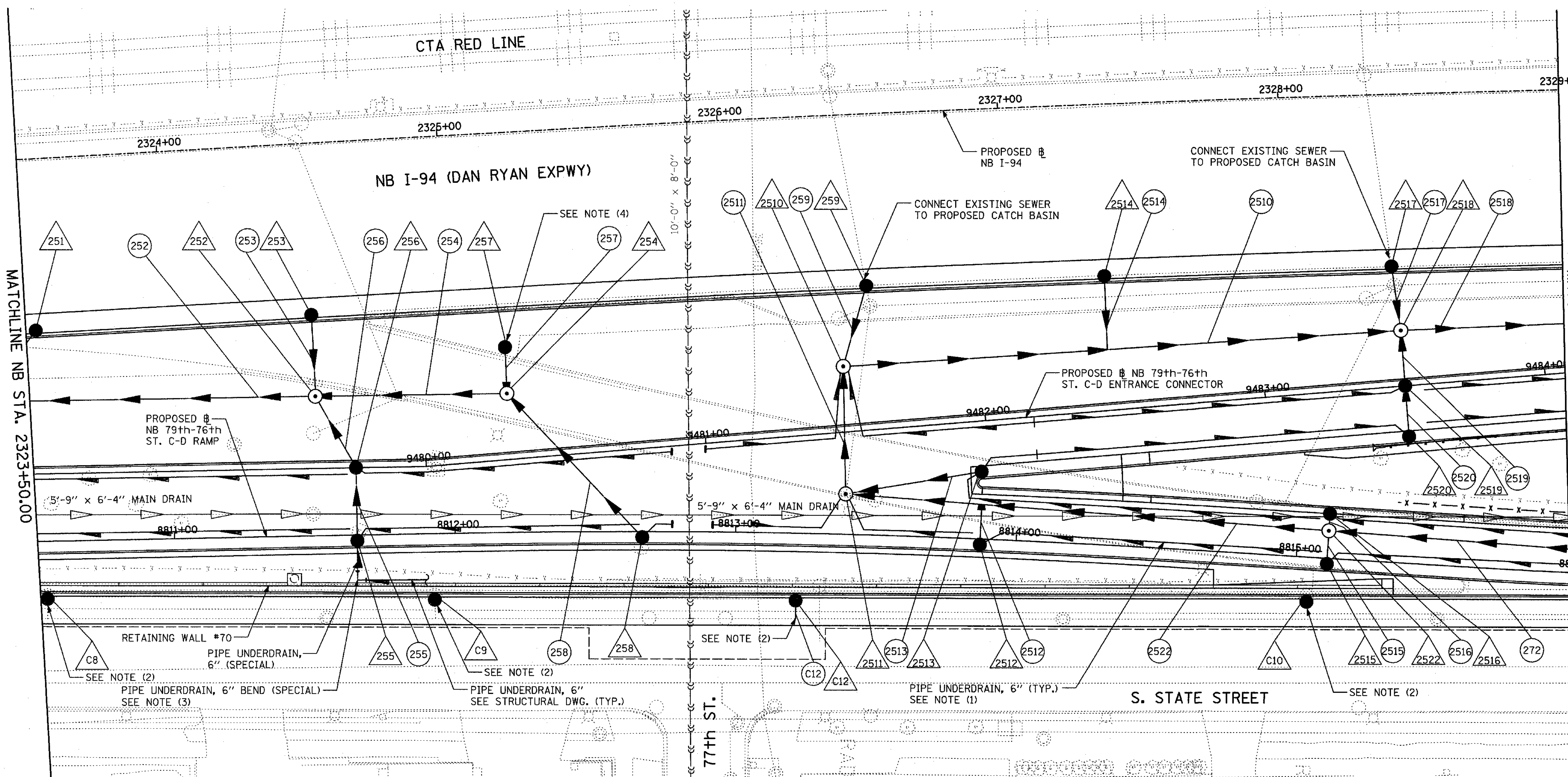
SCALE: 1"=20' DRAWN BY: MB

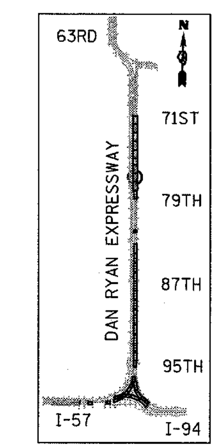
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	215
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).
4. PROPOSED AREA DRAIN TO COLLECT FLOW BETWEEN RAMP AND TEMPORARY CURB AND GUTTER. SEE SCHEDULE FOR DETAILS.

LEGEND:

- EXISTING COMBINED SEWER
- XY — PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- XY — PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S — PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P — UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TY·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PROPOSED PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2323+50.00 TO 2329+00.00

SCALE: 1"=20' DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: DA

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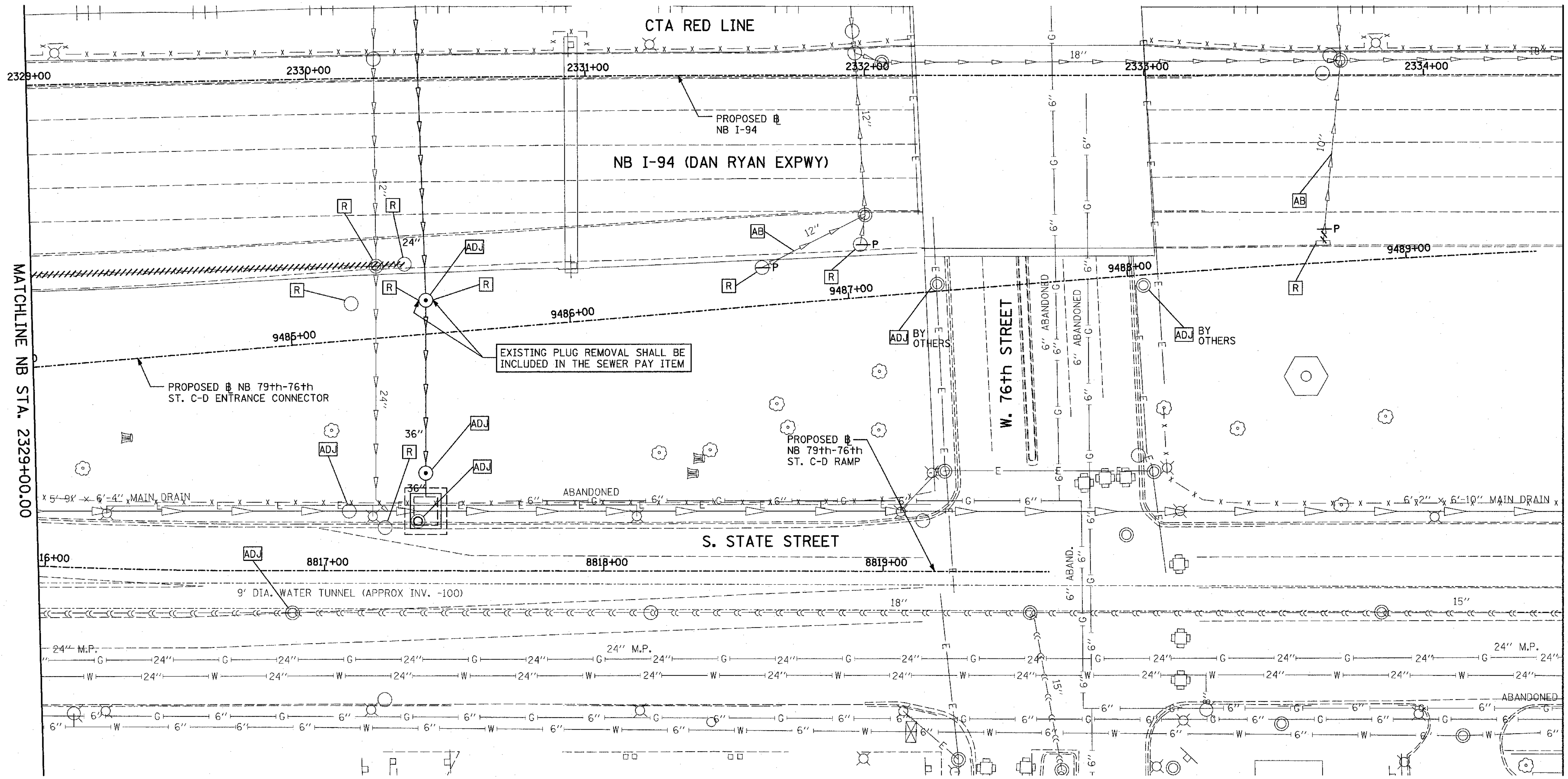
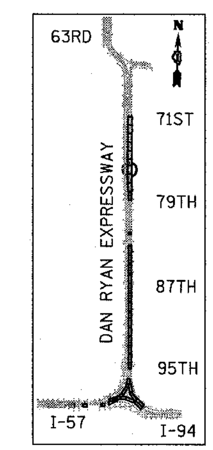
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	216
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- (XY) PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 26 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY EXISTING PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2329+00.00 TO 2334+50.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

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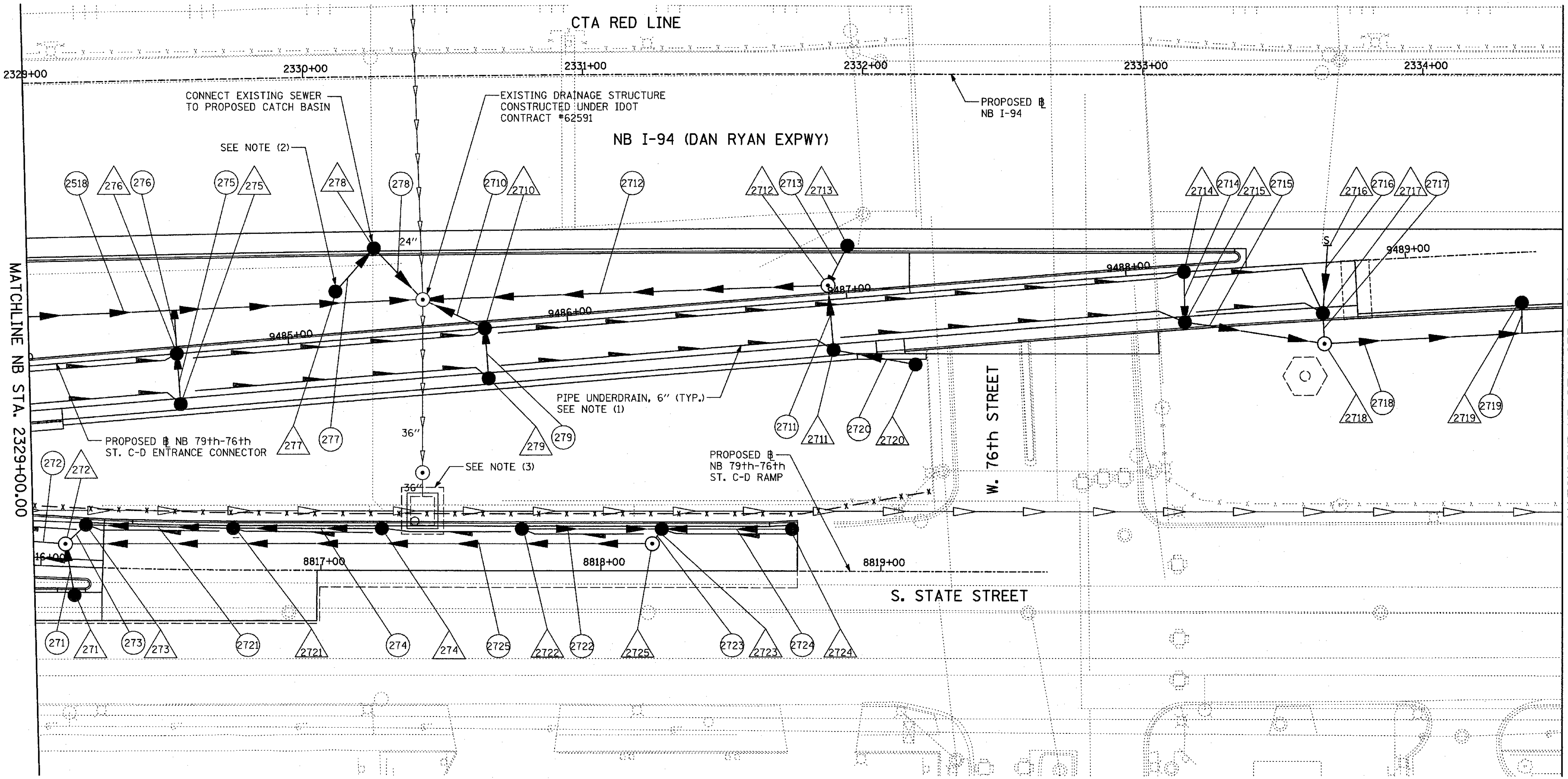
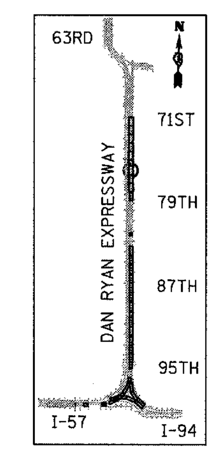
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	217
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- XY — PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- XY — PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S — PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P — UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. — FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS DETAIL."
2. PROPOSED AREA DRAIN TO COLLECT FLOW BETWEEN RAMP AND TEMPORARY CURB AND GUTTER. SEE SCHEDULE FOR DETAILS.
3. EXCAVATION SUPPORT SYSTEM LEFT IN PLACE AROUND THE STRUCTURE INSTALLED IN CONTRACT 62591. CONTRACTOR SHALL FIELD VERIFY AROUND STRUCTURE PRIOR TO CONSTRUCTION.

TY·LIN INTERNATIONAL

SHEET 27 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

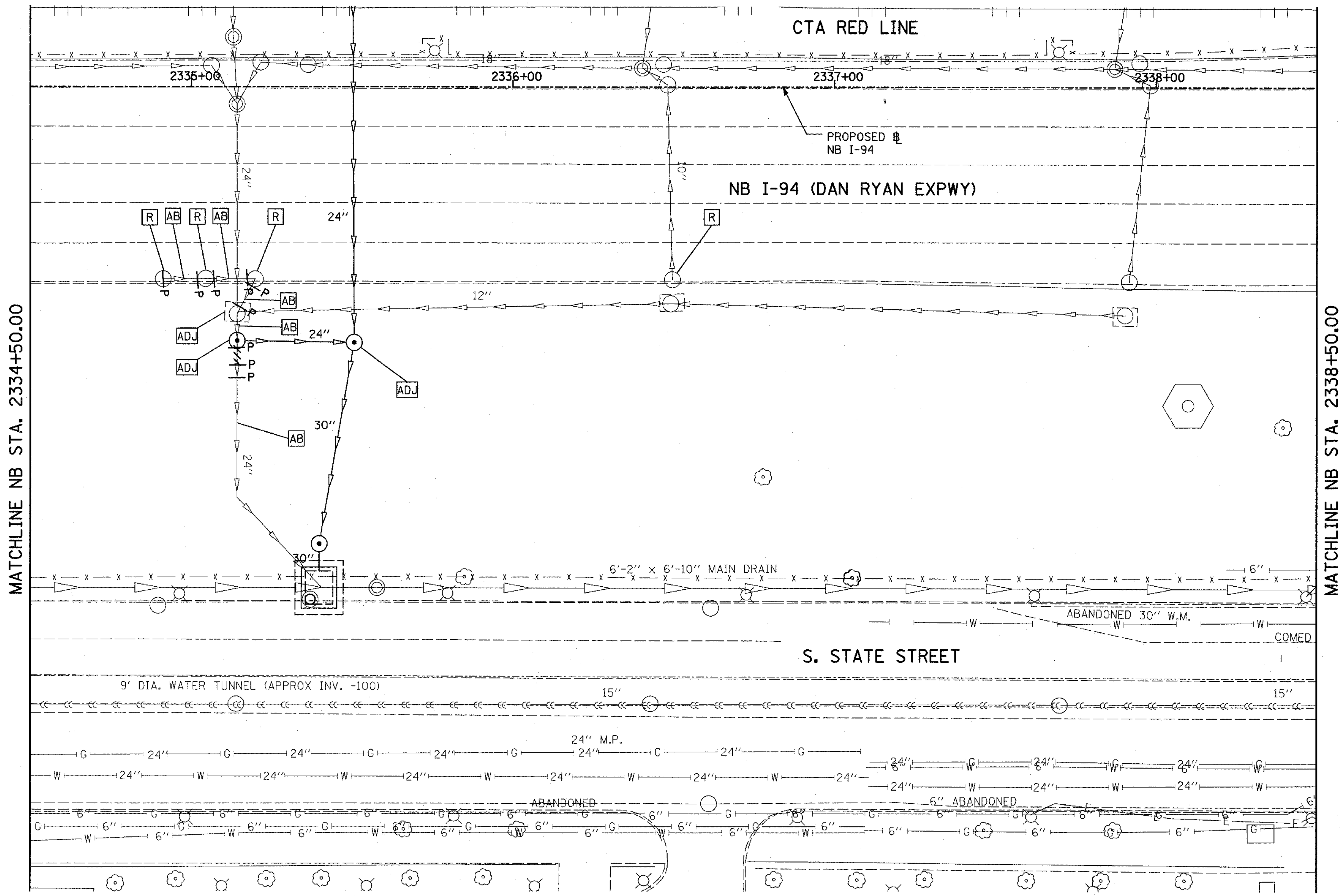
DRAINAGE AND UTILITY PROPOSED PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2329+00.00 TO 2334+50.00

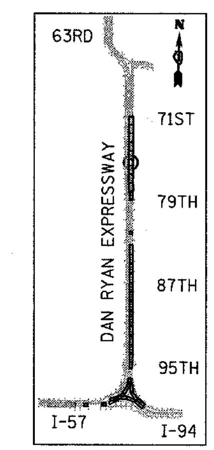
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	218
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 28 OF 39

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

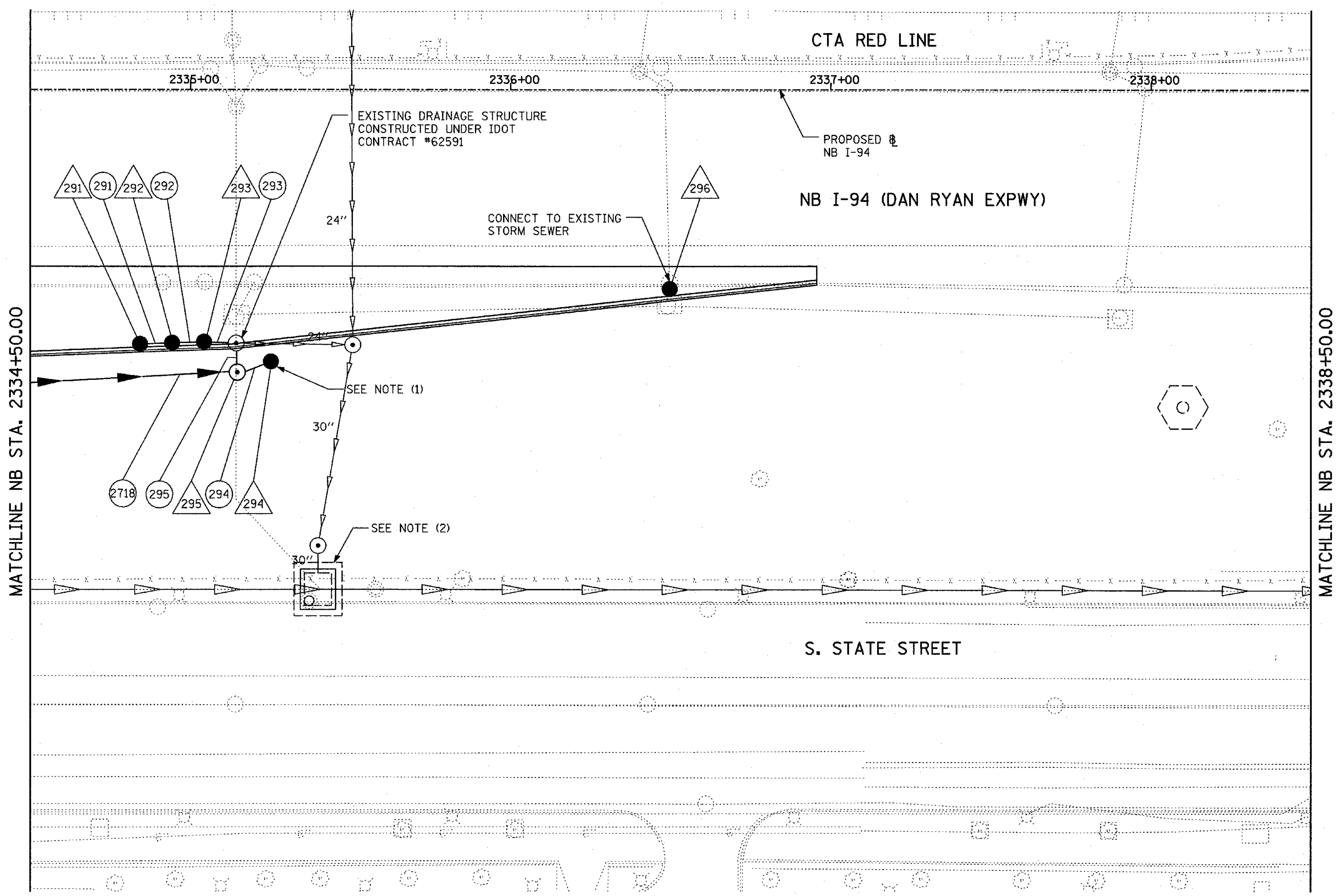
DRAINAGE AND UTILITY EXISTING PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2334+50.00 TO 2338+50.00

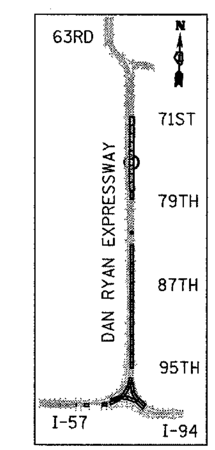
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	219
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. PROPOSED AREA DRAIN TO COLLECT FLOW BETWEEN FRONTAGE ROAD AND TEMPORARY CURB AND GUTTER. SEE DRAINAGE SCHEDULE FOR DETAILS.
2. EXCAVATION SUPPORT SYSTEM LEFT IN PLACE AROUND THE STRUCTURE INSTALLED IN CONTRACT 62591. CONTRACTOR SHALL FIELD VERIFY AROUND STRUCTURE PRIOR TO CONSTRUCTION.

TYLIN INTERNATIONAL

SHEET 29 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

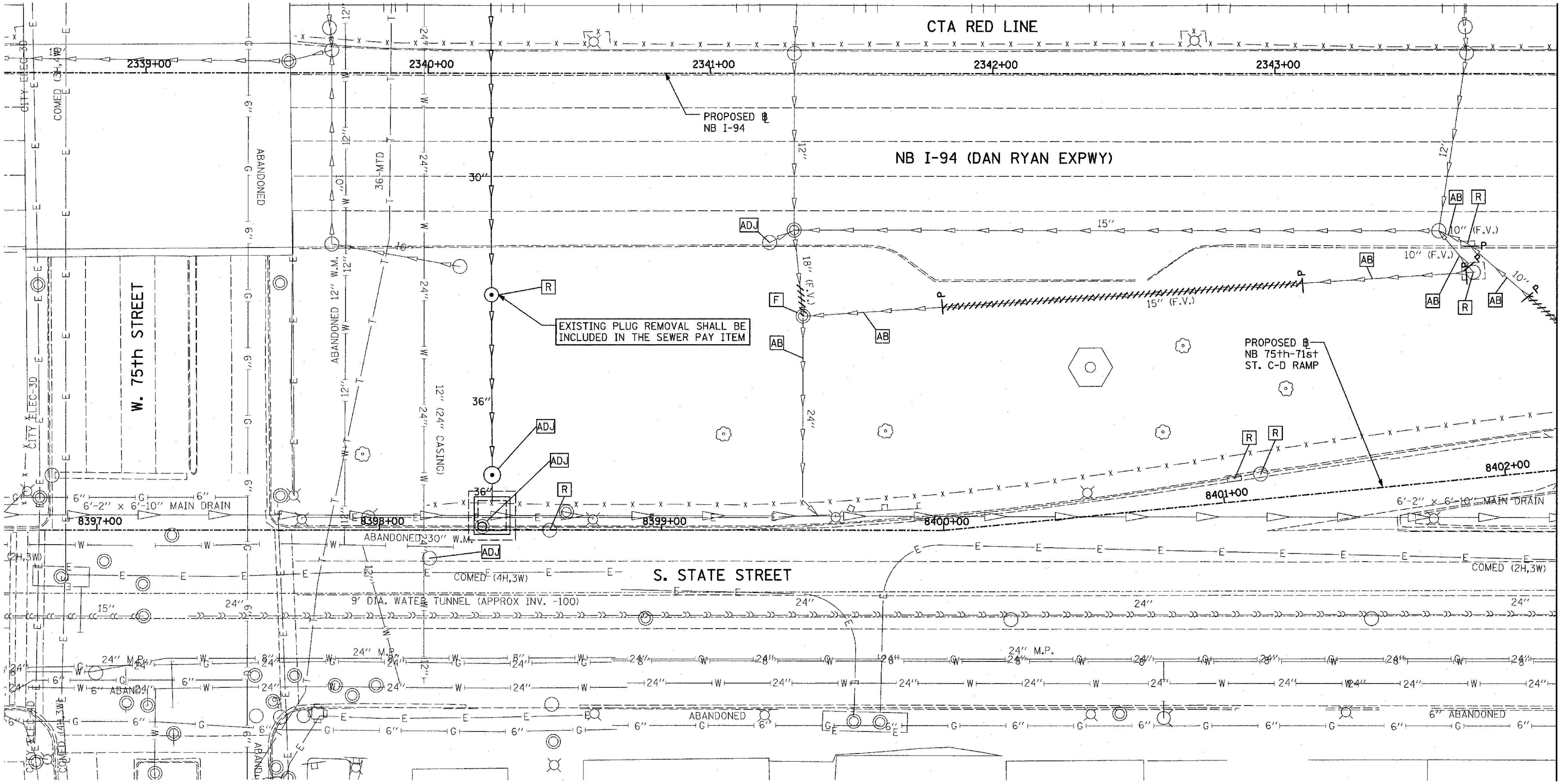
DRAINAGE AND UTILITY EXISTING PLAN
NB 79th TO 76th STREET C-D RAMP
NB I-94 STA. 2334+50.00 TO 2338+50.00

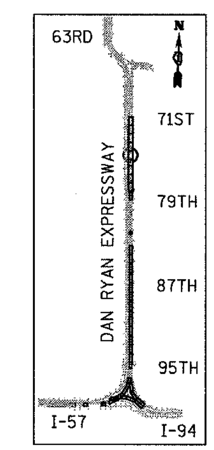
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	220
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TY·LIN INTERNATIONAL

SHEET 30 OF 39

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

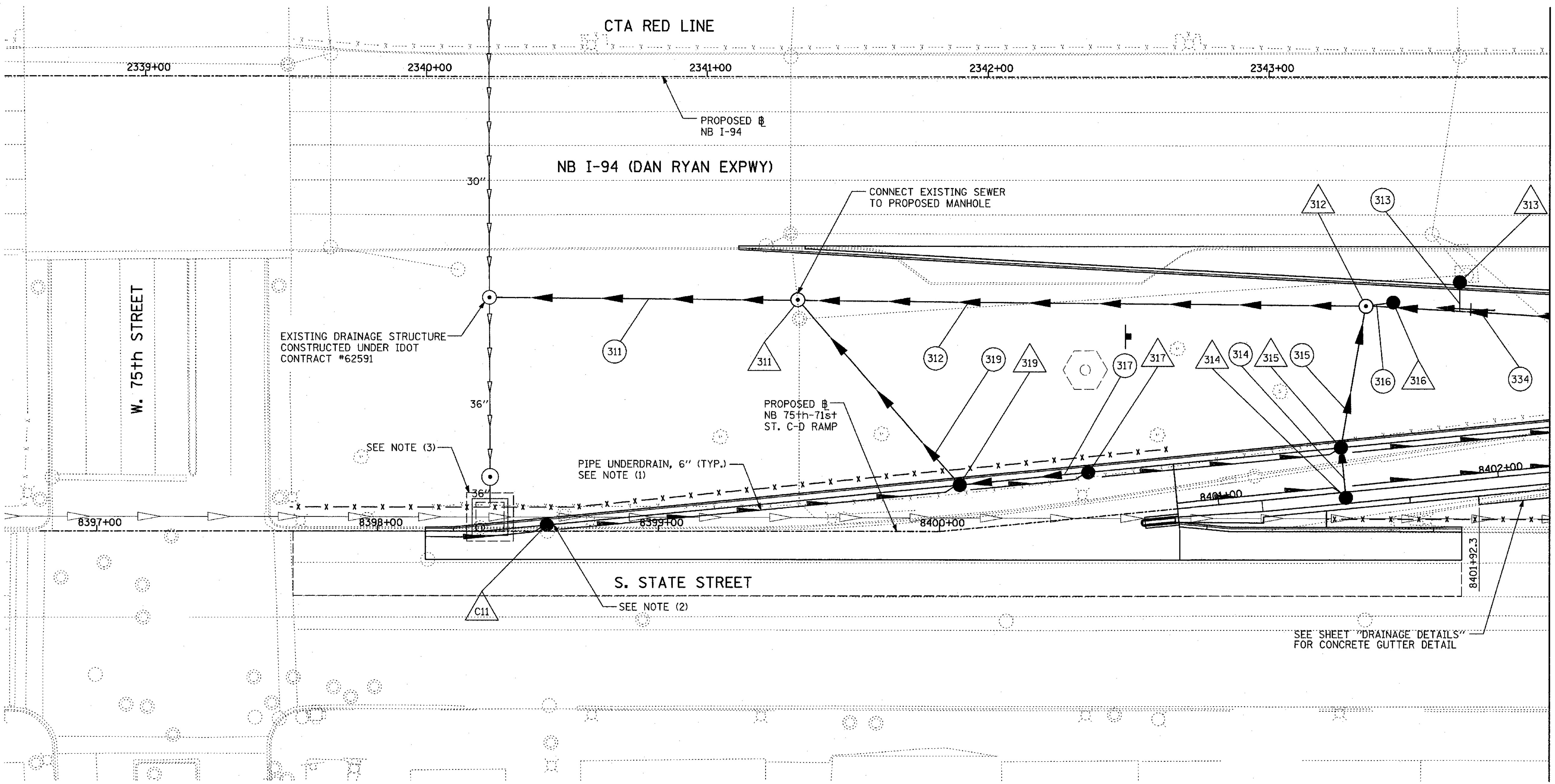
F.A.I. 94 (DAN RYAN EXPRESSWAY)

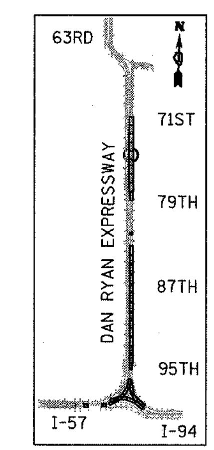
DRAINAGE AND UTILITY EXISTING PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2338+50.00 TO 2344+00.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	221
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8 62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

Symbol	Description
—«—«—«—	EXISTING COMBINED SEWER
(XY)	PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
△XY	PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
S ⊢	PIPE STUBOUT TO BE PLUGGED
⁄⁄⁄⁄⁄⁄⁄⁄	UTILITY REMOVAL
— P	UTILITY REMOVAL PLUG
	HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
□	HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
	HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
F.V.	FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. EXCAVATION SUPPORT SYSTEM LEFT IN PLACE AROUND THE STRUCTURE INSTALLED IN CONTRACT 62591. CONTRACTOR SHALL FIELD VERIFY AROUND STRUCTURE PRIOR TO CONSTRUCTION.

TYLIN INTERNATIONAL

SHEET 31 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

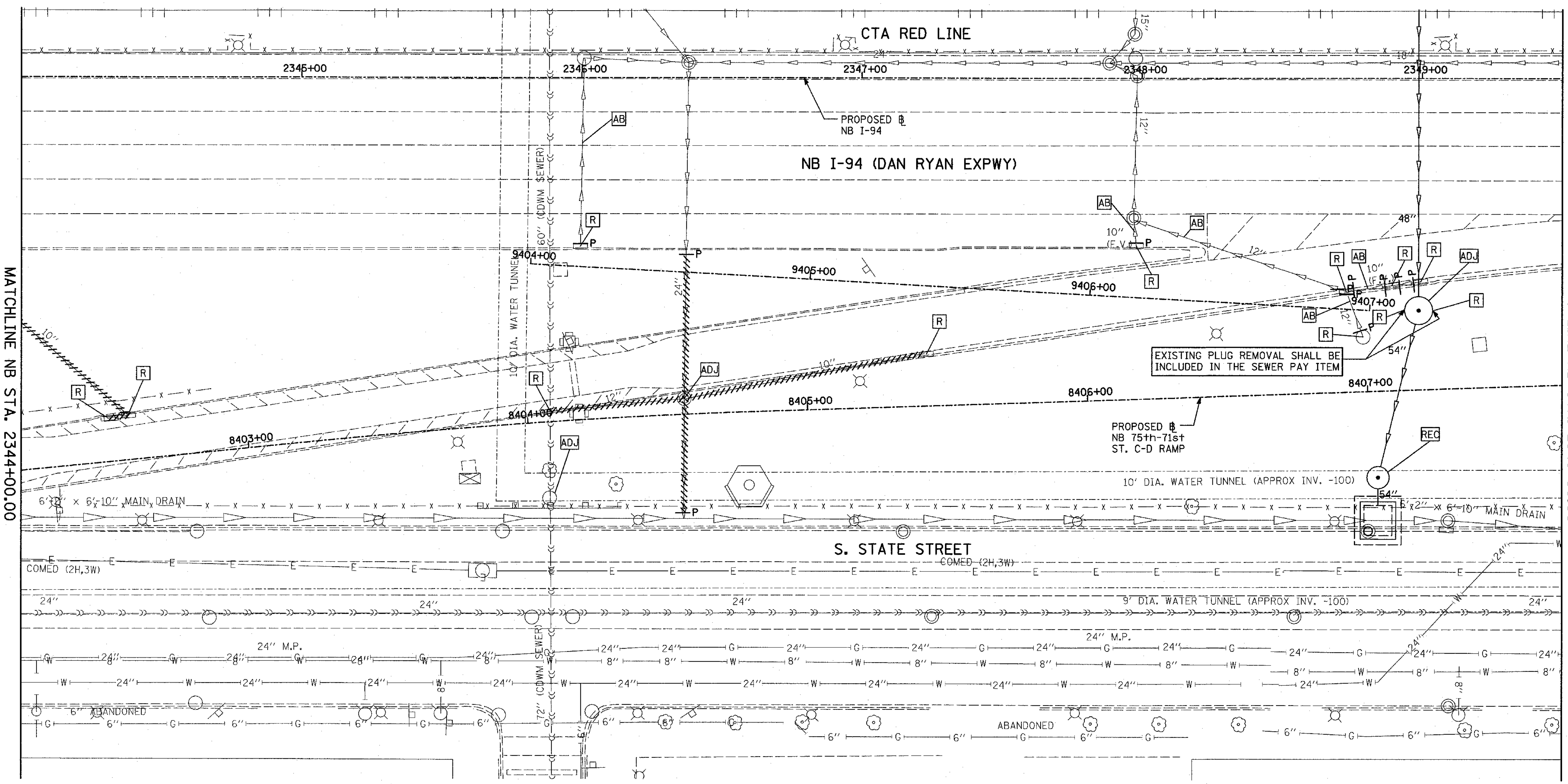
DRAINAGE AND UTILITY PROPOSED PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2338+50.00 TO 2344+00.00

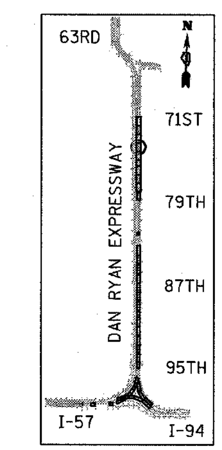
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	222
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 32 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY EXISTING PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2344+00.00 TO 2349+50.00

SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

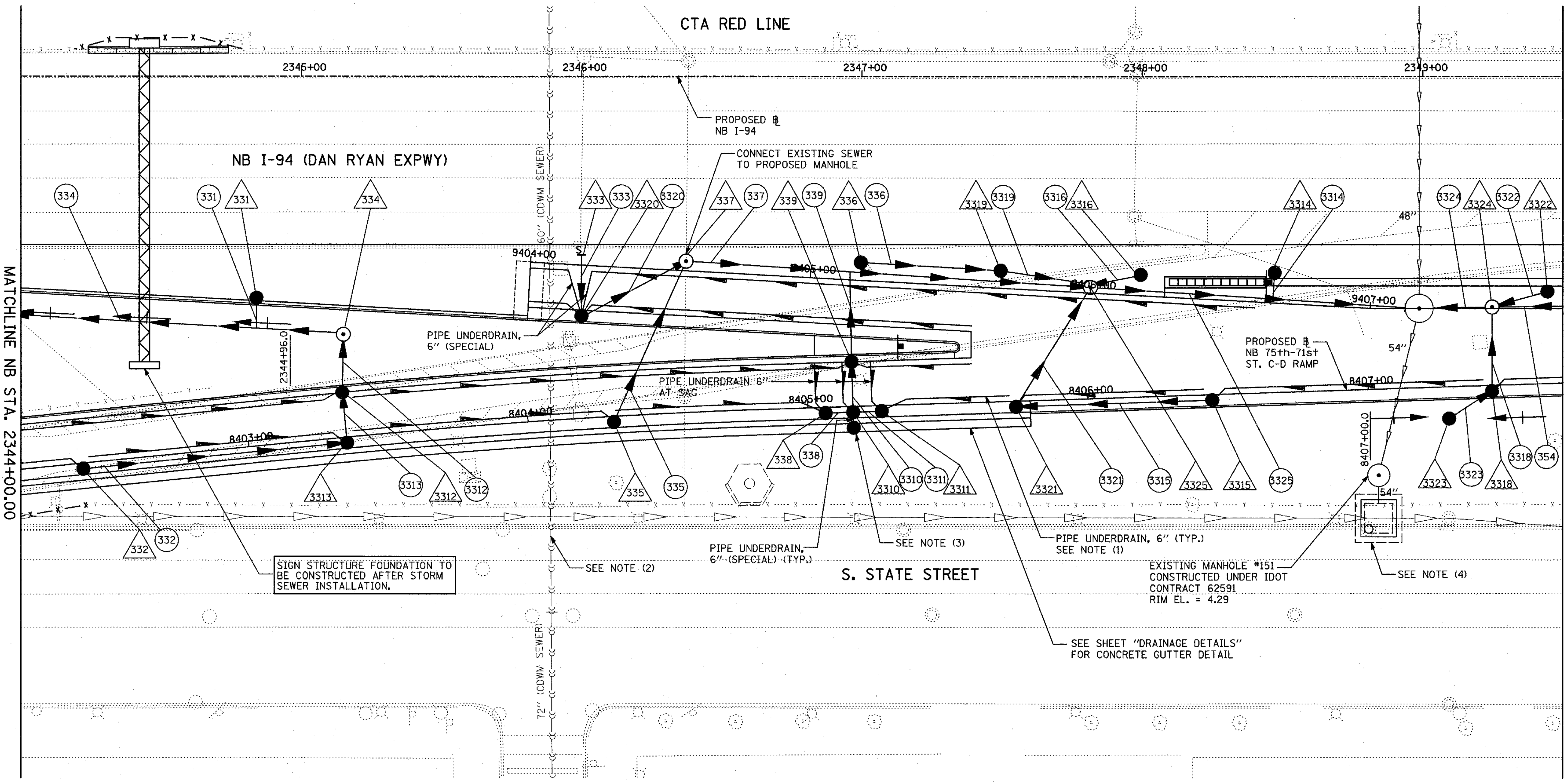
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	223

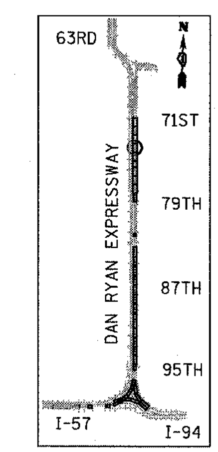
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

SCALE: 1" = 20'-0"

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CDWM COMBINED SEWER. ~~EXISTING SEWER TO BE VIDEO TAPED BEFORE AND AFTER CONSTRUCTION.~~ ALL WORK SHALL BE COORDINATED WITH THE CITY OF CHICAGO.
3. INSTALL CONCRETE GUTTER OUTLET AS SHOWN ON THE "DRAINAGE DETAILS" SHEETS.
4. EXCAVATION SUPPORT SYSTEM LEFT IN PLACE AROUND THE STRUCTURE INSTALLED IN CONTRACT 62591. CONTRACTOR SHALL FIELD VERIFY AROUND STRUCTURE PRIOR TO CONSTRUCTION.

LEGEND:

Symbol	Description
—«—«—	EXISTING COMBINED SEWER
(XY)	PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
△XY	PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
S ⊢	PIPE STUBOUT TO BE PLUGGED
//////	UTILITY REMOVAL
— P	UTILITY REMOVAL PLUG
⬡	HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
□	HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
⬡	HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
F.V.	FIELD VERIFY

T·Y·LIN INTERNATIONAL

SHEET 33 OF 39

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

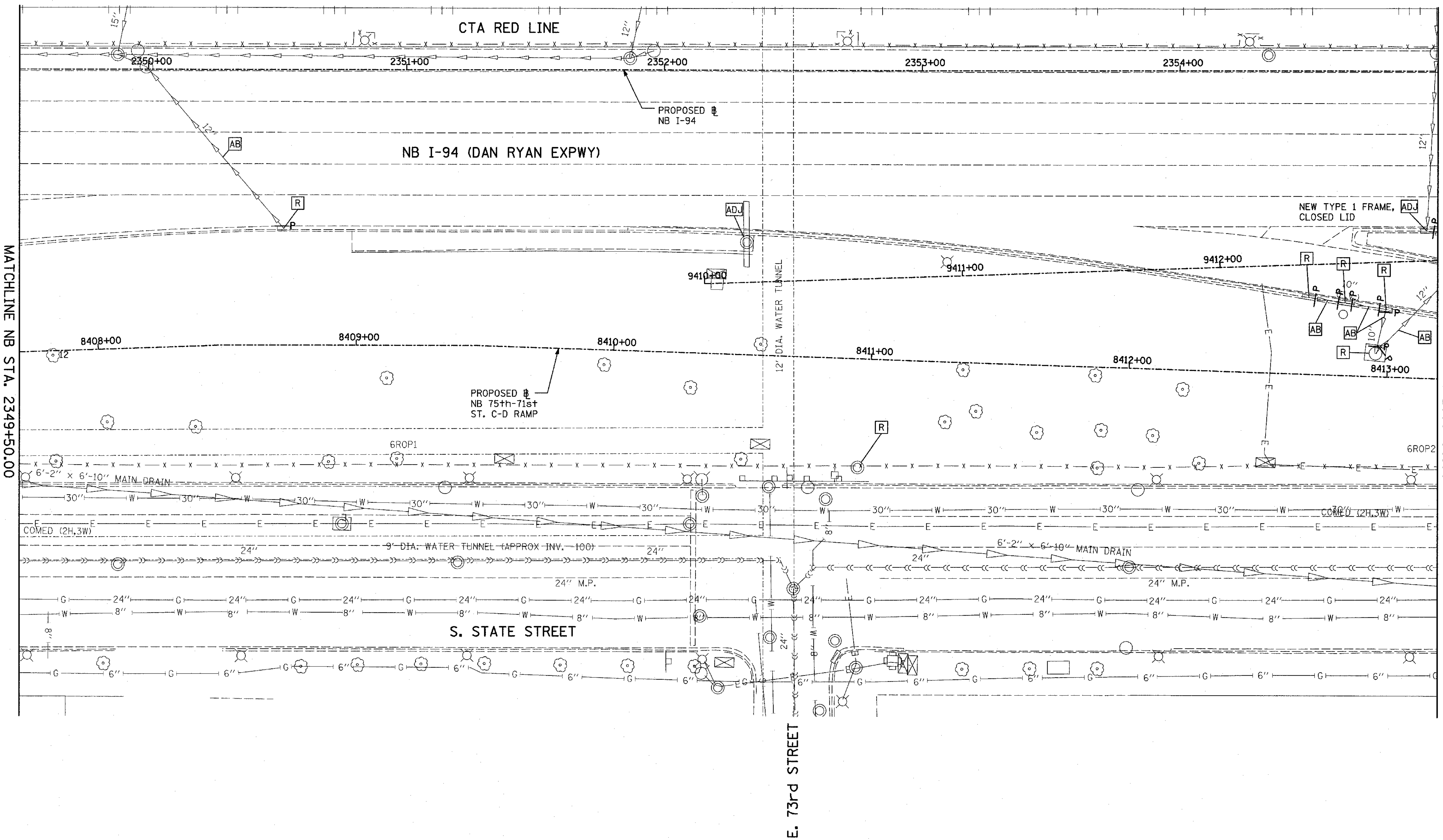
DRAINAGE AND UTILITY PROPOSED PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2344+00.00 TO 2349+50.00

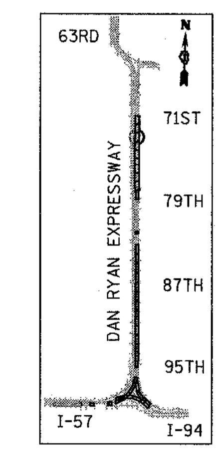
SCALE: 1"=20' | DRAWN BY: MB
DATE: MARCH 18, 2005 | CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	224
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 34 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

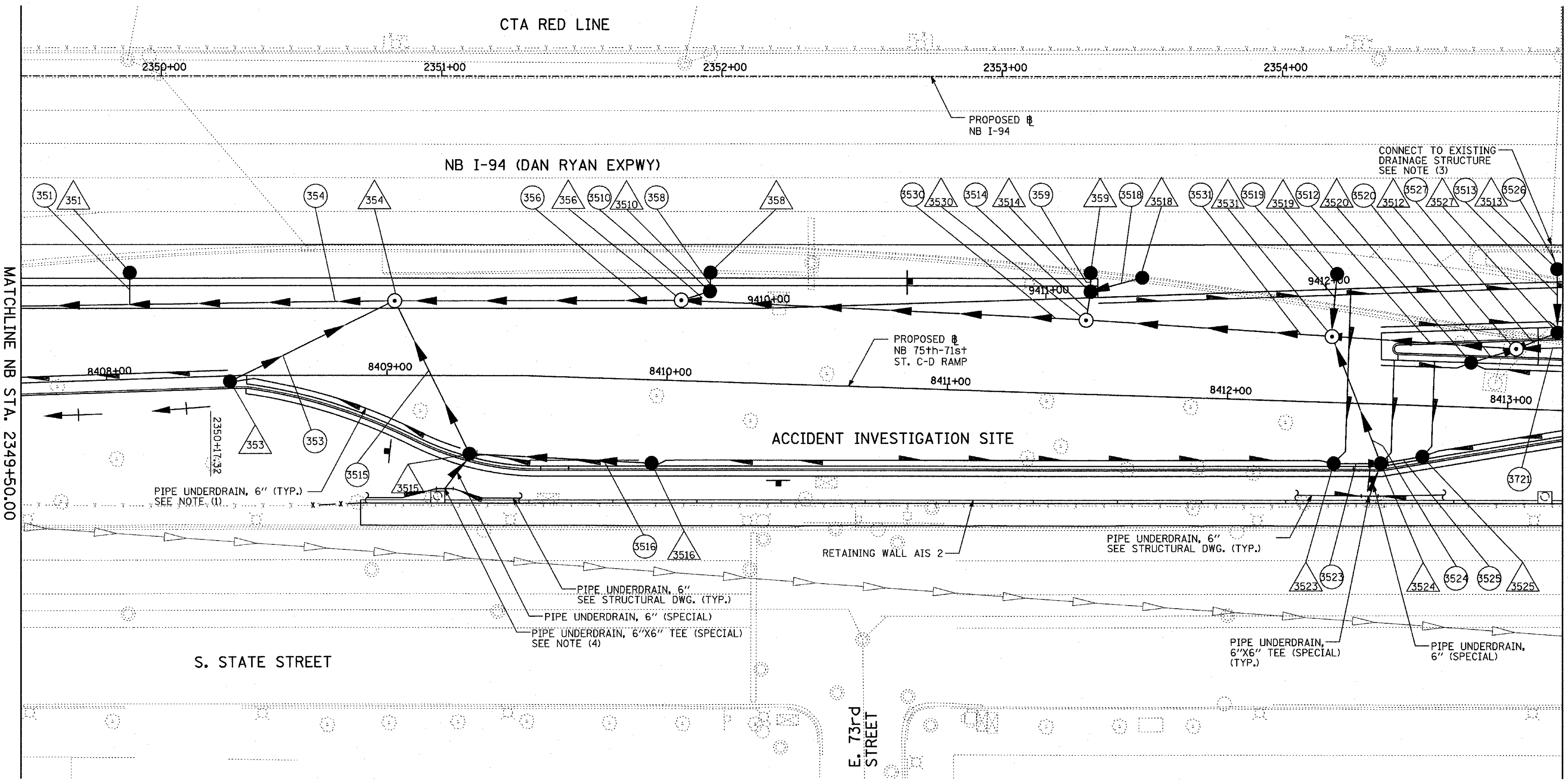
DRAINAGE AND UTILITY EXISTING PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2349+50.00 TO 2355+00.00

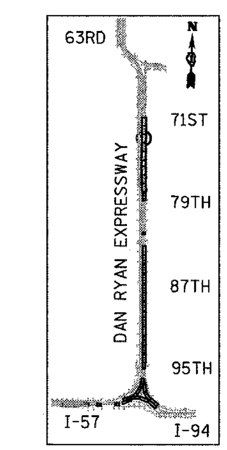
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	225
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDERDRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.
4. ALL TEES AND ELBOWS/BENDS FOR PUD, 6" (SPECIAL) SHALL BE INCLUDED IN COST OF PUD. 6" (SPECIAL).

TYLIN INTERNATIONAL

SHEET 35 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

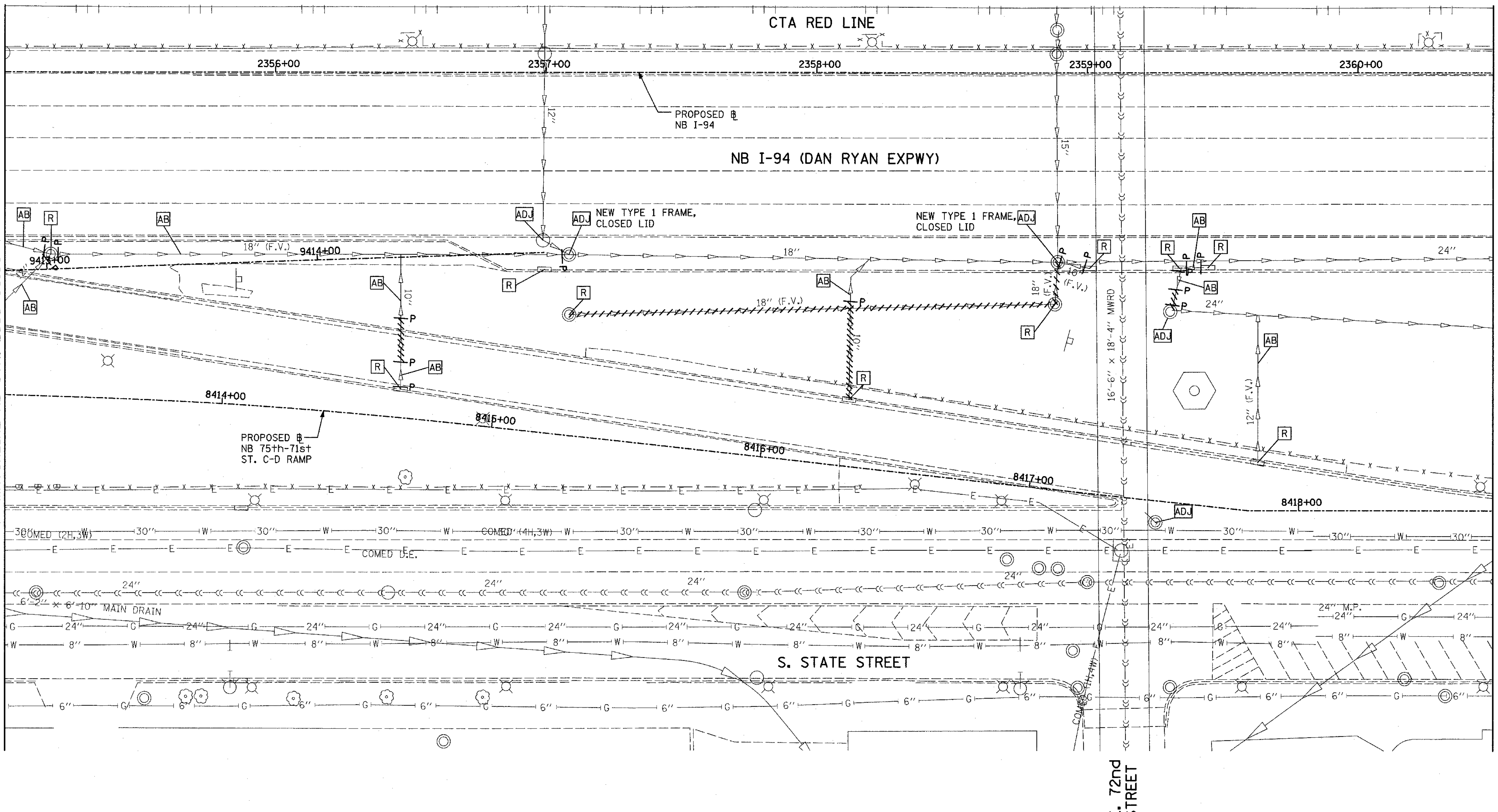
DRAINAGE AND UTILITY PROPOSED PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2349+50.00 TO 2355+00.00

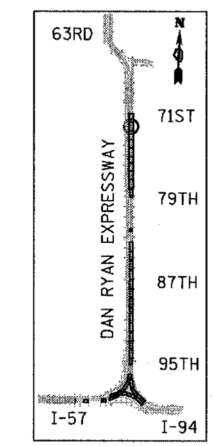
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	226
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- XY — PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- XY — PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S — PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P — UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. — FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 36 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

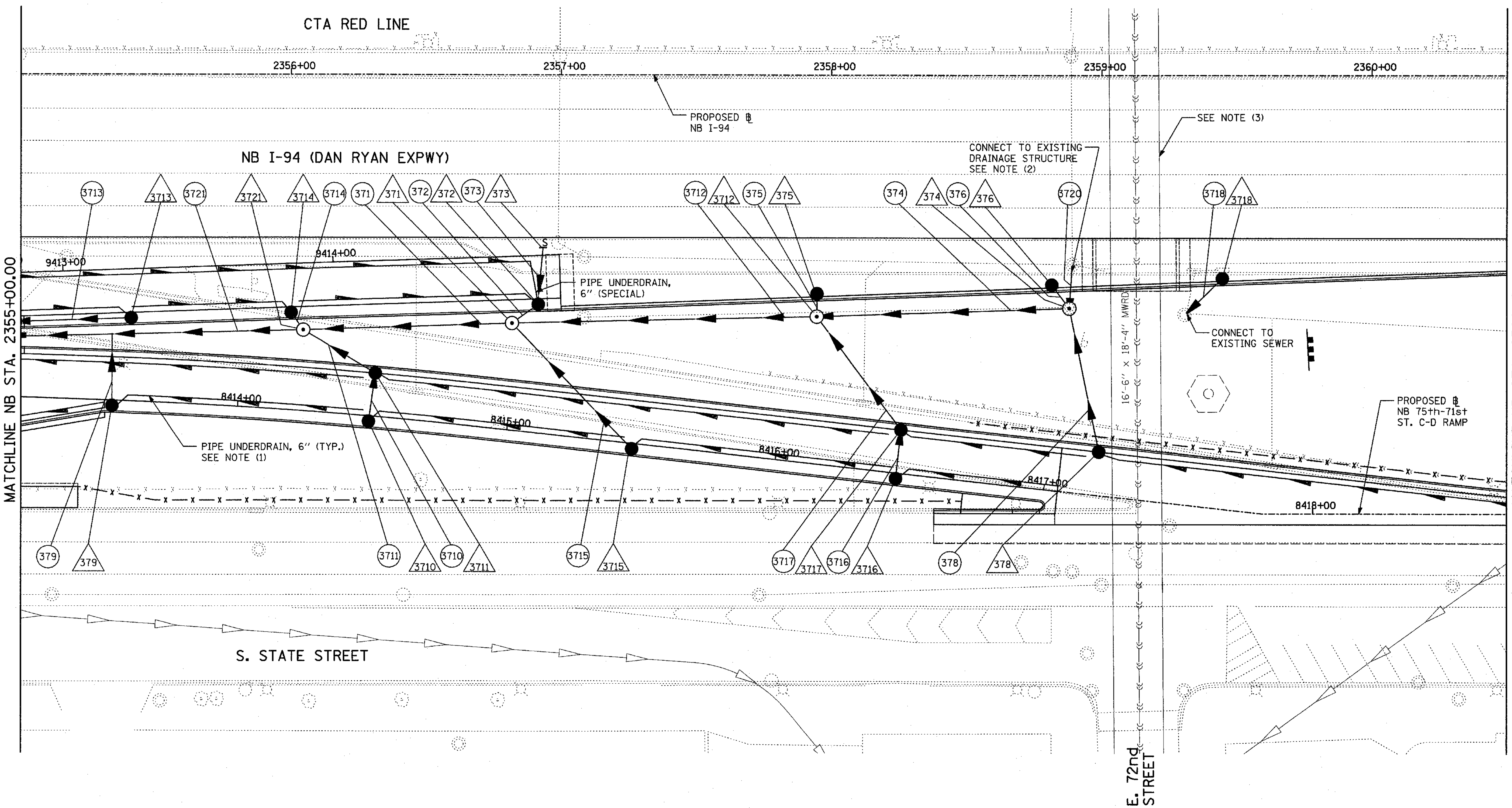
DRAINAGE AND UTILITY EXISTING PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2355+00.00 TO 2360+50.00

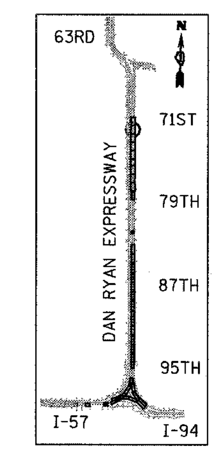
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	227
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S ⊢ PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- — P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
2. CORE DRILL AND CONNECT TO EXISTING DRAINAGE STRUCTURE. CONNECTION COST SHALL BE INCLUDED IN THE COST TO CONSTRUCT THE STORM SEWER.
3. CARE SHALL BE TAKEN TO PROTECT EXISTING 16'-6"X18'-4" MWRD SEWER CROSSING DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS FOR DETAILS.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

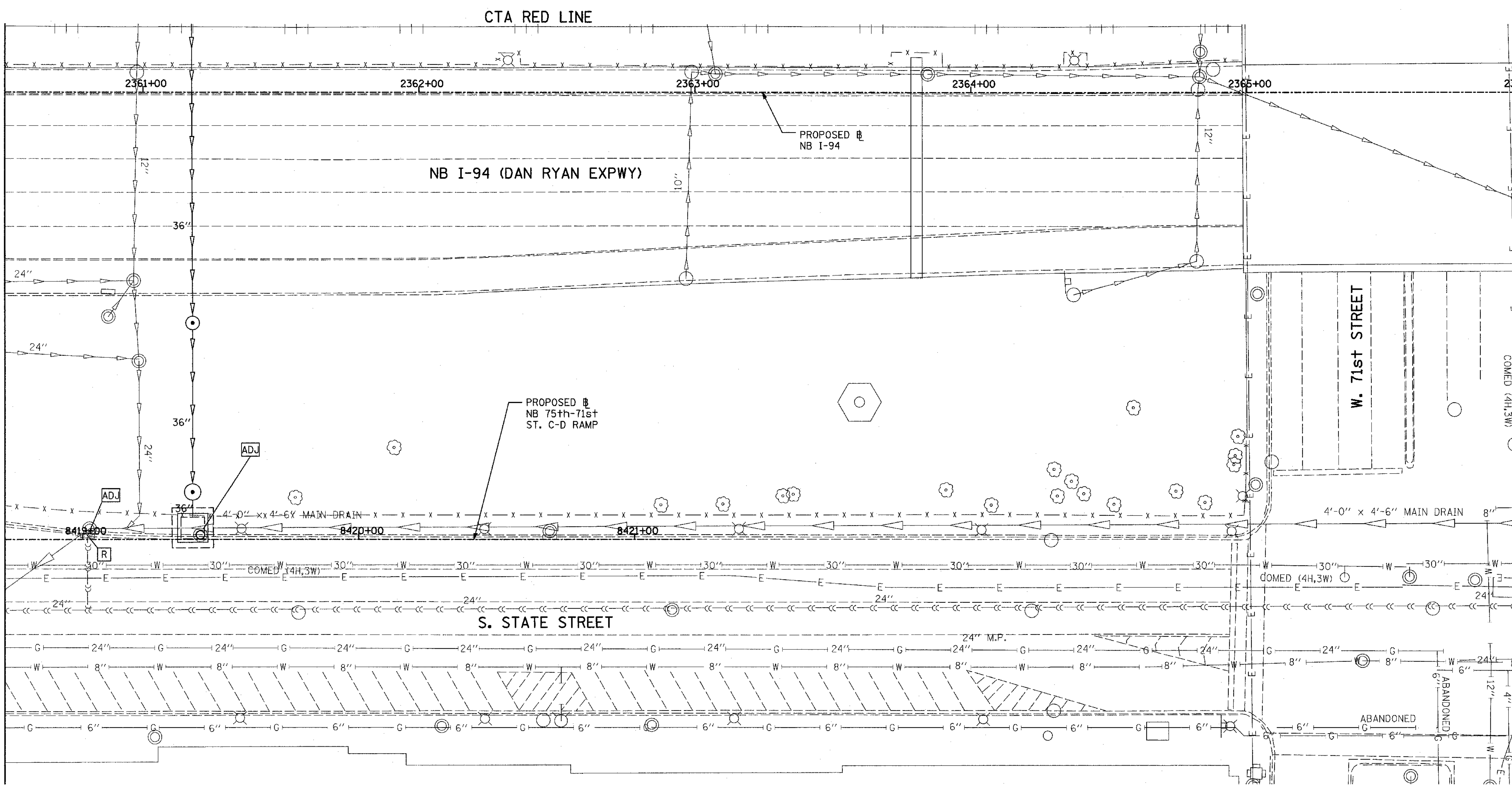
DRAINAGE AND UTILITY PROPOSED PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2355+00.00 TO 2360+50.00

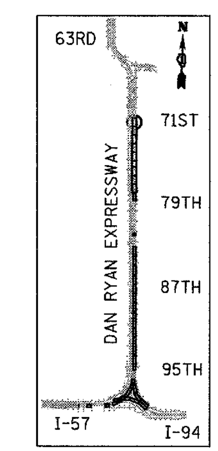
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	228
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

TYLIN INTERNATIONAL

SHEET 38 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

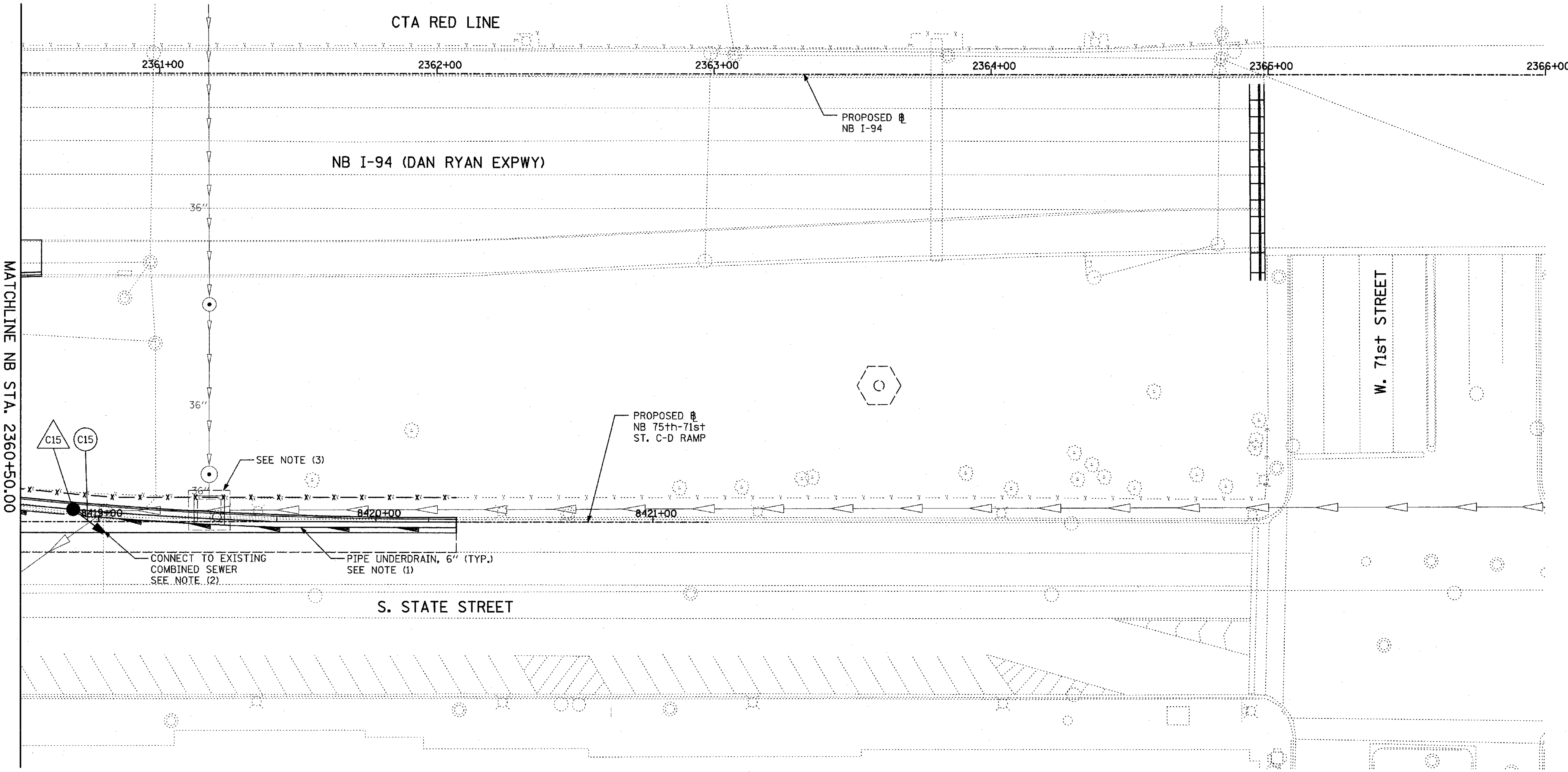
DRAINAGE AND UTILITY EXISTING PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2360+50.00 TO 2362+07.18

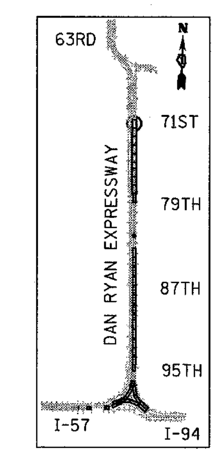
SCALE: 1"=20' DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	229
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

LEGEND:

- EXISTING COMBINED SEWER
- (XY) PROPOSED STORM SEWER NUMBER (X=SHEET NO., Y=PIPE NO.)
- △XY PROPOSED STRUCTURE NUMBER (X=SHEET NO., Y=STRUCTURE NO.)
- S PIPE STUBOUT TO BE PLUGGED
- UTILITY REMOVAL
- P UTILITY REMOVAL PLUG
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- HIGH MAST LIGHT TOWER FOUNDATION, WALL MOUNTED
- HIGH MAST LIGHT TOWER FOUNDATION (BY OTHERS - SEE CONTRACT 62583)
- F.V. FIELD VERIFY

NOTES:

1. FOR CLARITY, PIPE UNDERDRAINS ARE SHOWN OFFSET FROM THEIR PROPOSED LOCATIONS. FOR DETAILED PLACEMENT, SEE SHEET "PIPE UNDER-DRAINS ALONG RAMPS DETAIL."
2. CONNECT TO EXISTING CDWM COMBINED SEWER. SEE COMBINED SEWER DRAINAGE SCHEDULE FOR DETAILS (TYP.).
3. EXCAVATION SUPPORT SYSTEM LEFT IN PLACE AROUND THE STRUCTURE INSTALLED IN CONTRACT 62591. CONTRACTOR SHALL FIELD VERIFY AROUND STRUCTURE PRIOR TO CONSTRUCTION.

TYLIN INTERNATIONAL

SHEET 39 OF 39

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE AND UTILITY PROPOSED PLAN
NB 75th TO 71st STREET C-D RAMP
NB I-94 STA. 2360+50.00 TO 2362+07.18

SCALE: 1"=20' DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: DA

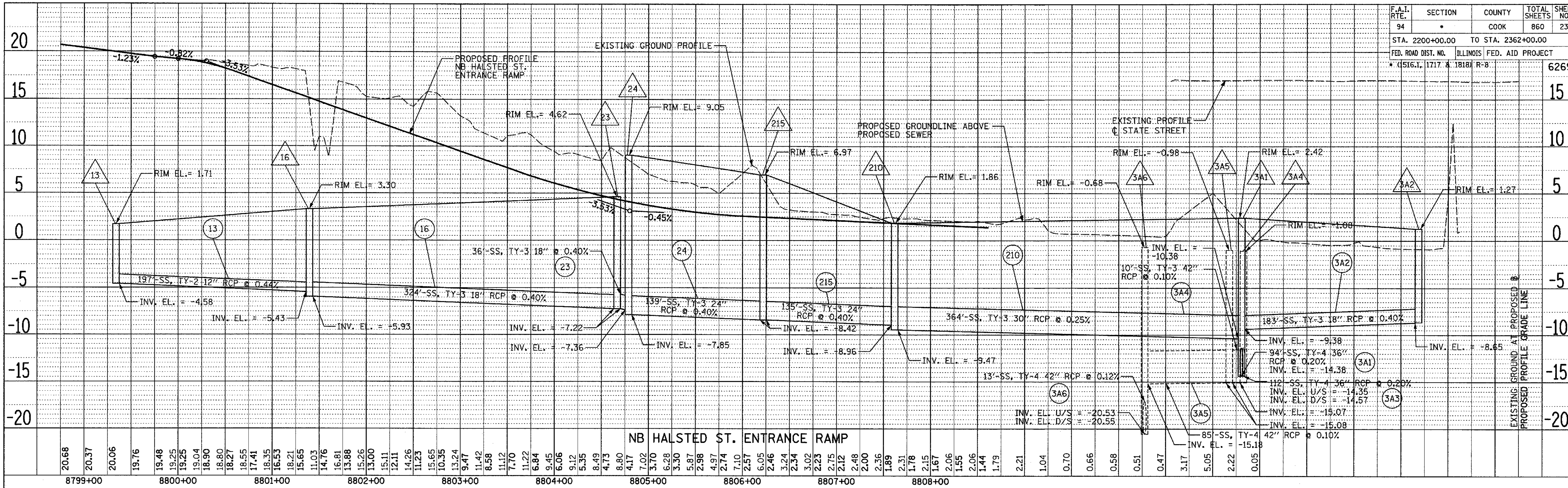
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	230

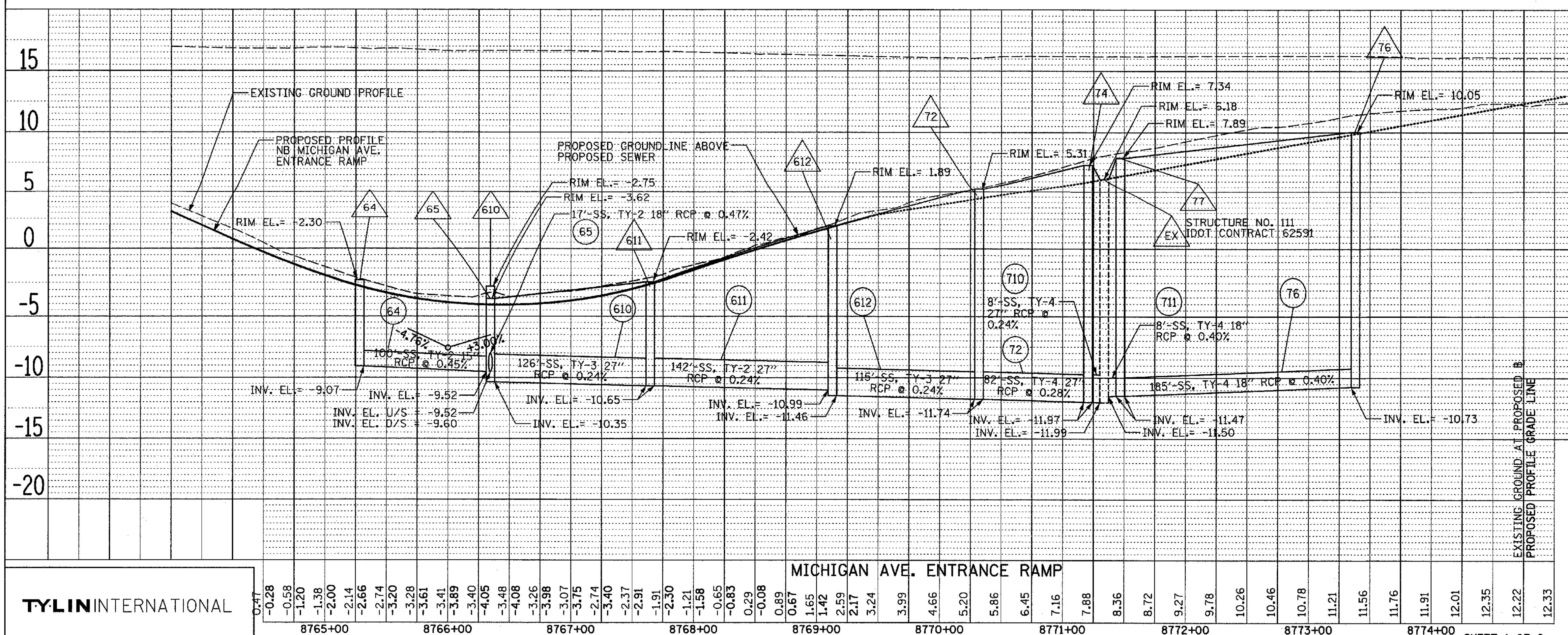
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (516.1, 1717 & 1818) R-8

62694





TYLIN INTERNATIONAL

SHEET 1 OF 9

HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB HALSTED ST. ENTRANCE RAMP
NB MICHIGAN AVE. ENTRANCE RAMP

SCALE: 1"=50' HORIZ. 1"=5' VERT.

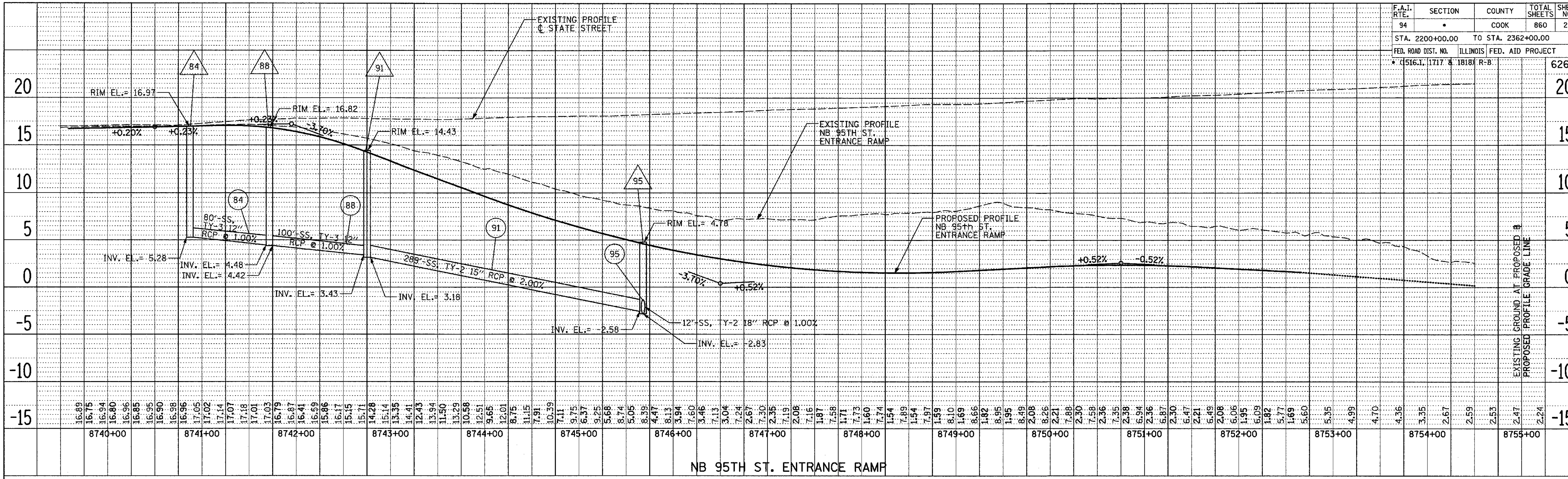
DATE: MARCH 18, 2005

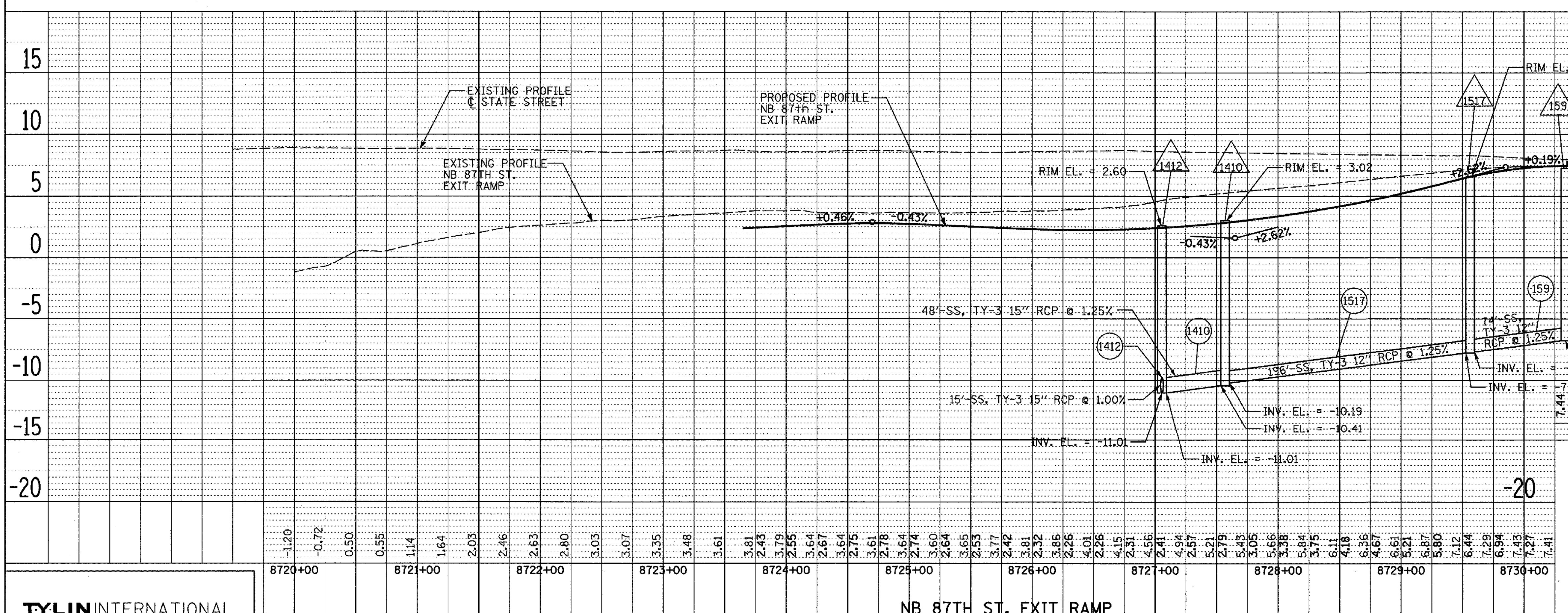
DRAWN BY: NSB

CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	231
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (516.1, 1717 & 1818) R-8				

62694





HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

T·Y·LIN INTERNATIONAL

SHEET 2 OF 9

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB 95th ST. ENTRANCE RAMP
NB 87th ST. EXIT RAMP

SCALE: 1"=50' HORIZ. 1"=5' VERT.
DATE: MARCH 18, 2005
DRAWN BY: NSB
CHECKED BY: DA

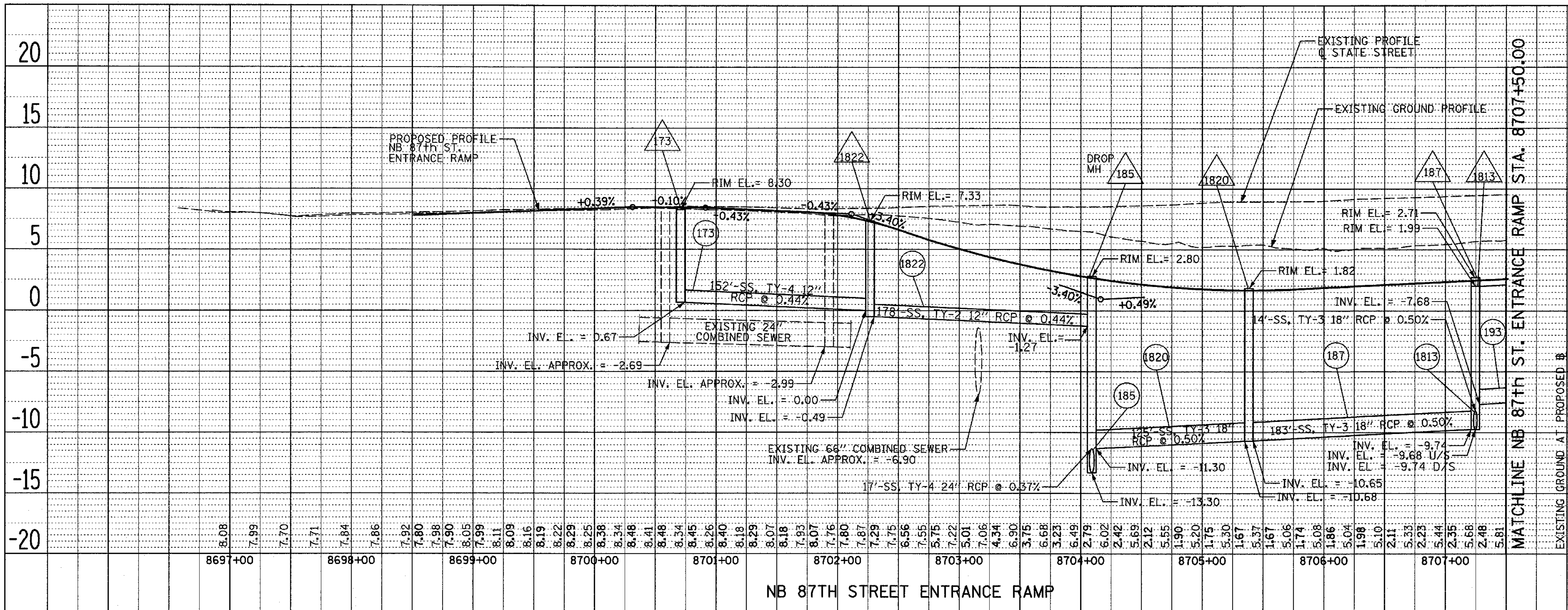
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	232

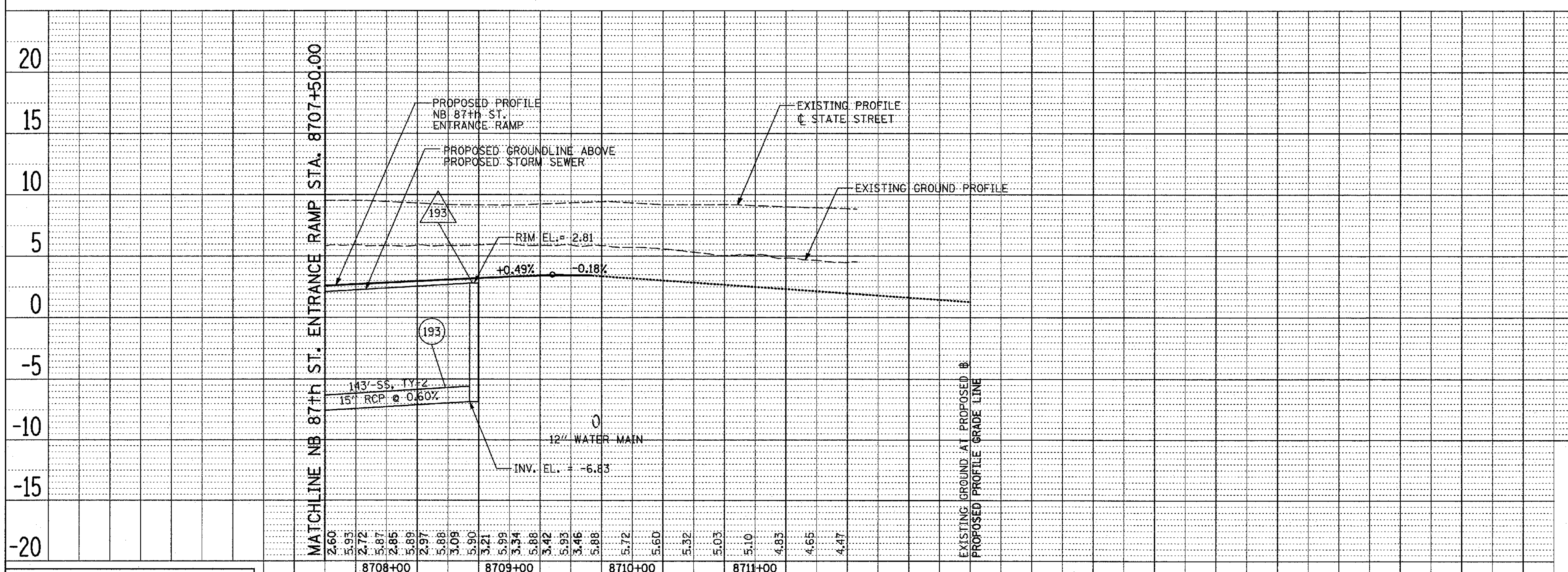
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (516.1, 1717 & 1818) R-8

62694





HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

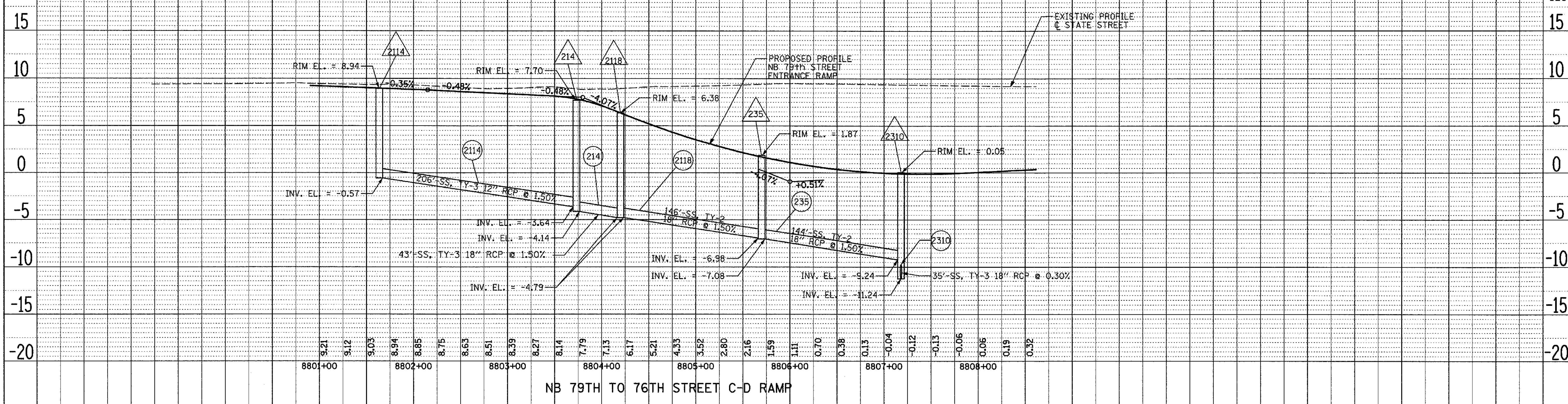
DRAINAGE PROFILE
NB 87th ST. ENTRANCE RAMP

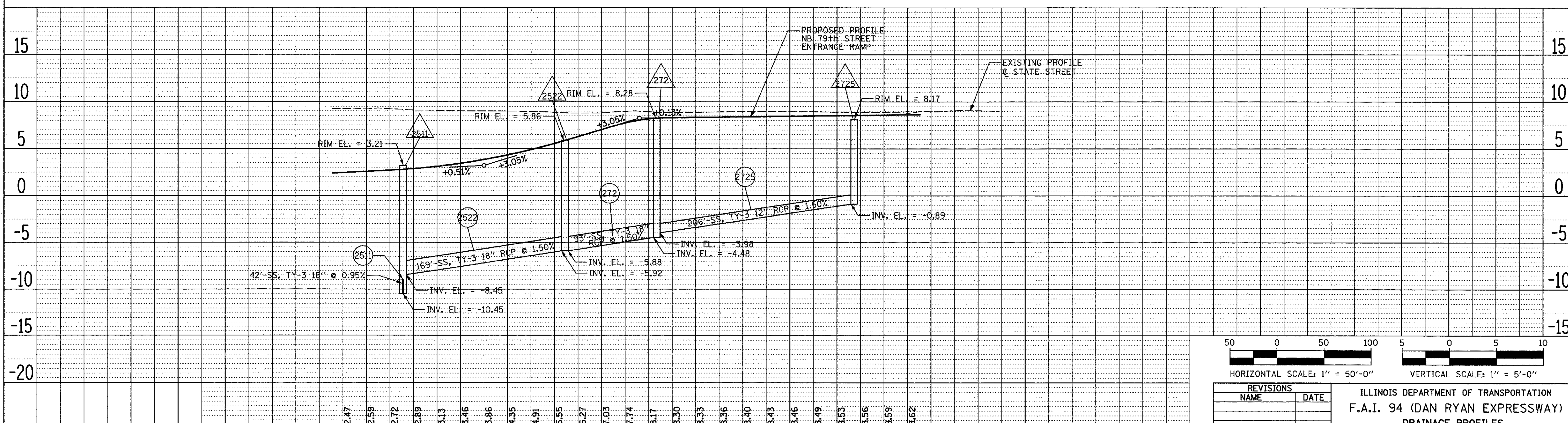
SCALE: 1"=50' HORIZ. 1"=5' VERT. | DRAWN BY: NSB

DATE: MARCH 18, 2005 | CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	233
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				

62694





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

5 0 5 10
VERTICAL SCALE: 1" = 5'-0"

TYLIN INTERNATIONAL

SHEET 4 OF 9

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB 79TH TO 76TH ST. C-D RAMP
STA. 8801+50.00 TO STA. 8807+50.00
STA. 8813+50.00 TO STA. 8818+50.00

SCALE: 1"=50' HORIZ. 1"=5' VERT. DRAWN BY: NSB

DATE: MARCH 18, 2005 CHECKED BY: DA

PLAN | NOTE BOOK | NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.O.W. CHECKED | CADD FILE NAME | BY | DATE

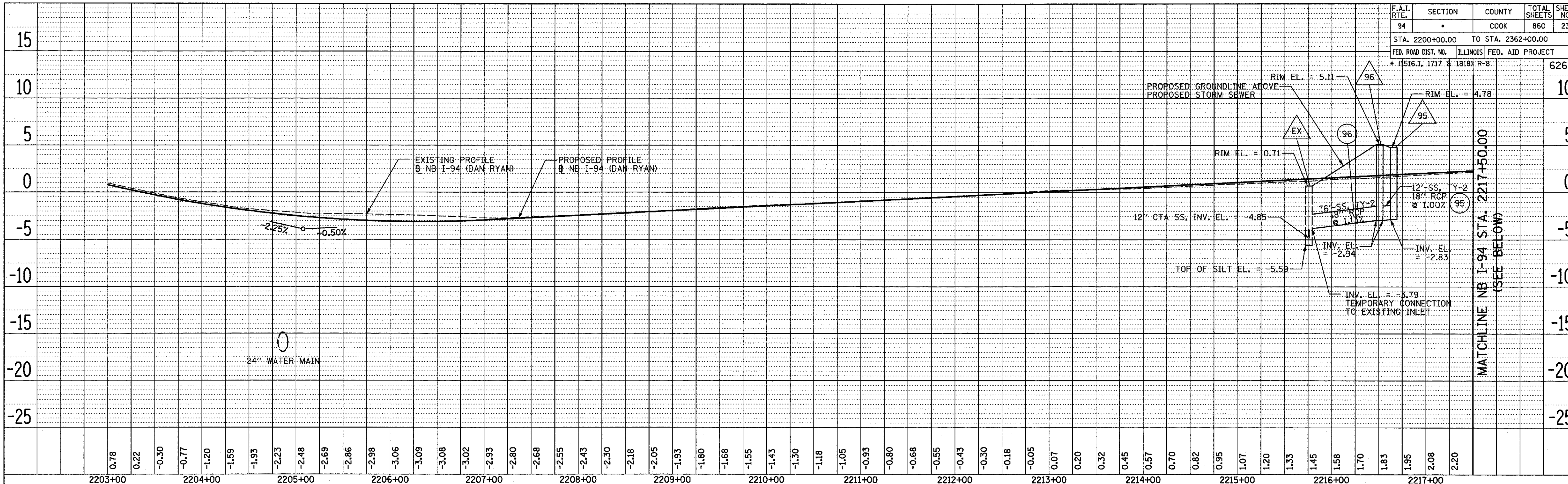
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	234

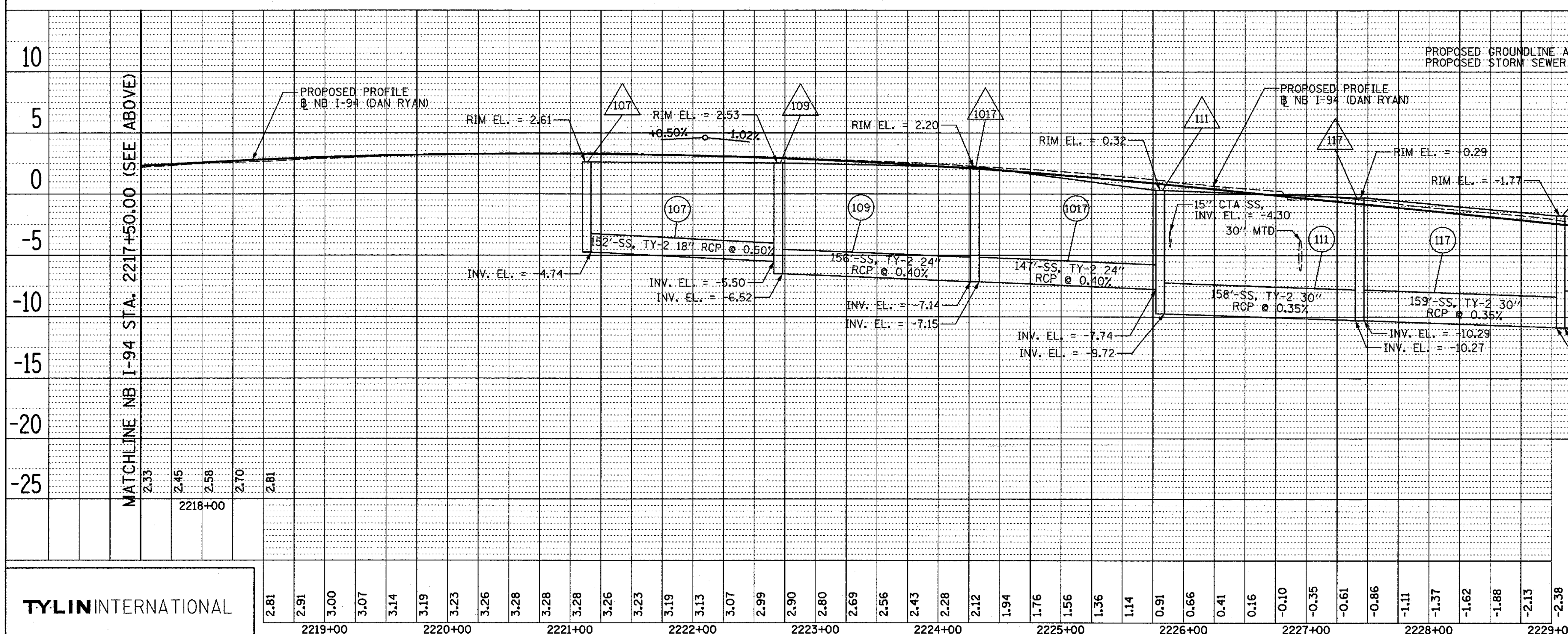
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (516.1, 1717 & 1818) R-8

62694





HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

TY·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB I-94
STA. 2203+00.00 TO 2232+00.00

SCALE: 1"=50' HORIZ. 1"=5' VERT.

DATE: MARCH 18, 2005

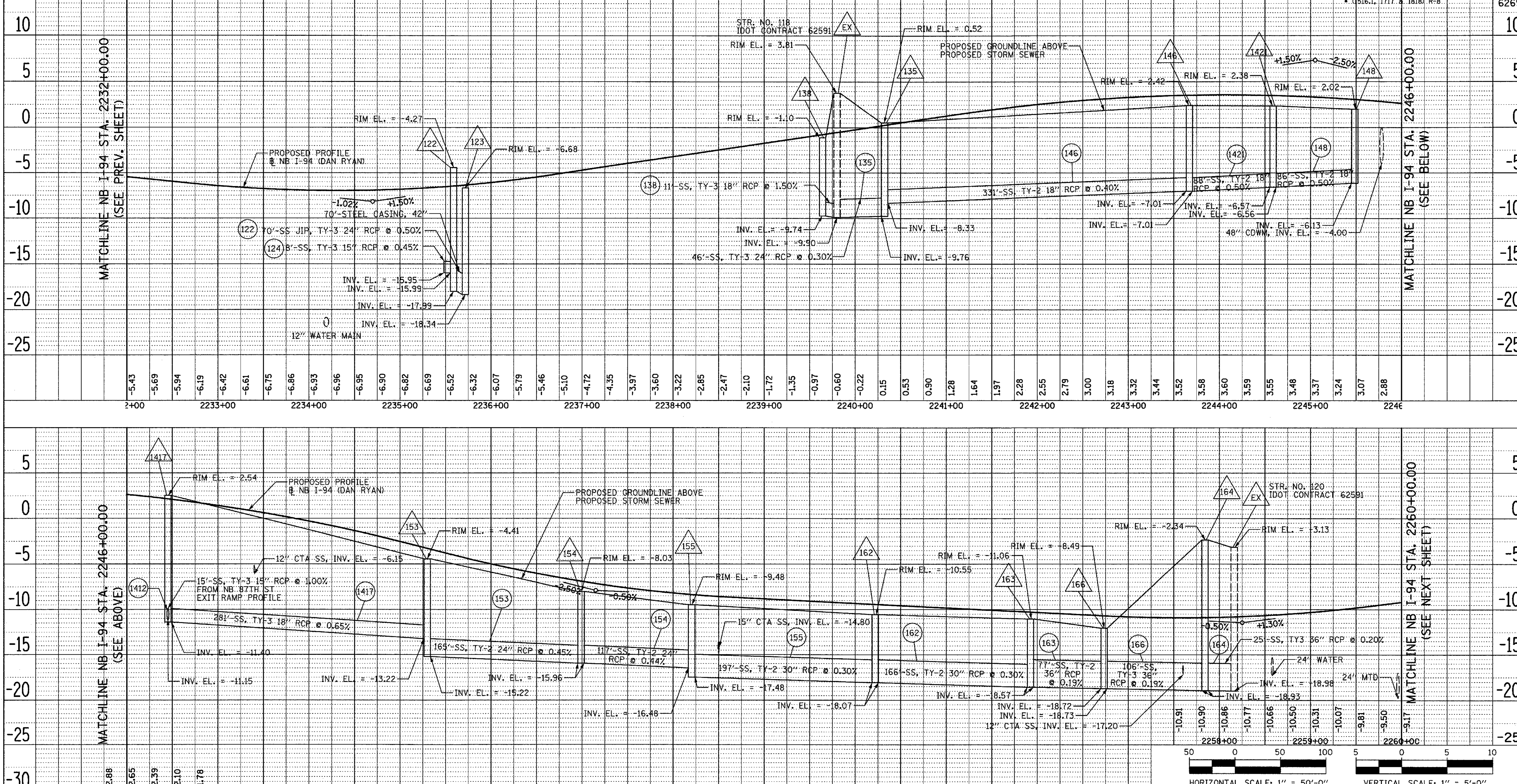
DRAWN BY: NSB

CHECKED BY: DA

SHEET 5 OF 9

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	235
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (516.1, 1717 & 1818) R-8				

62694



HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

TYLIN INTERNATIONAL

SHEET 6 OF 9

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB I-94
STA. 2232+00.00 TO 2260+00.00

SCALE: 1"=50' HORIZ. 1"=5' VERT.
DATE: MARCH 18, 2005
DRAWN BY: NSB
CHECKED BY: DA

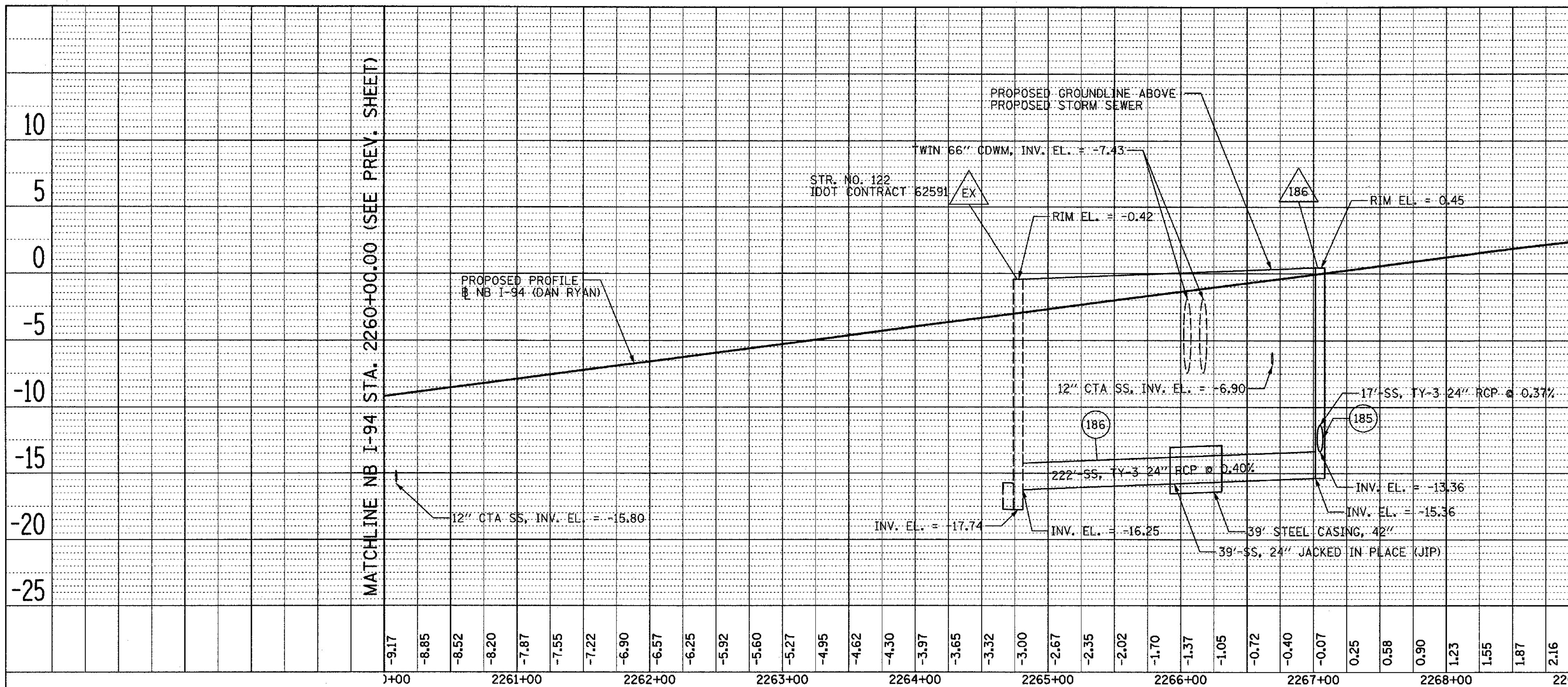
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	236

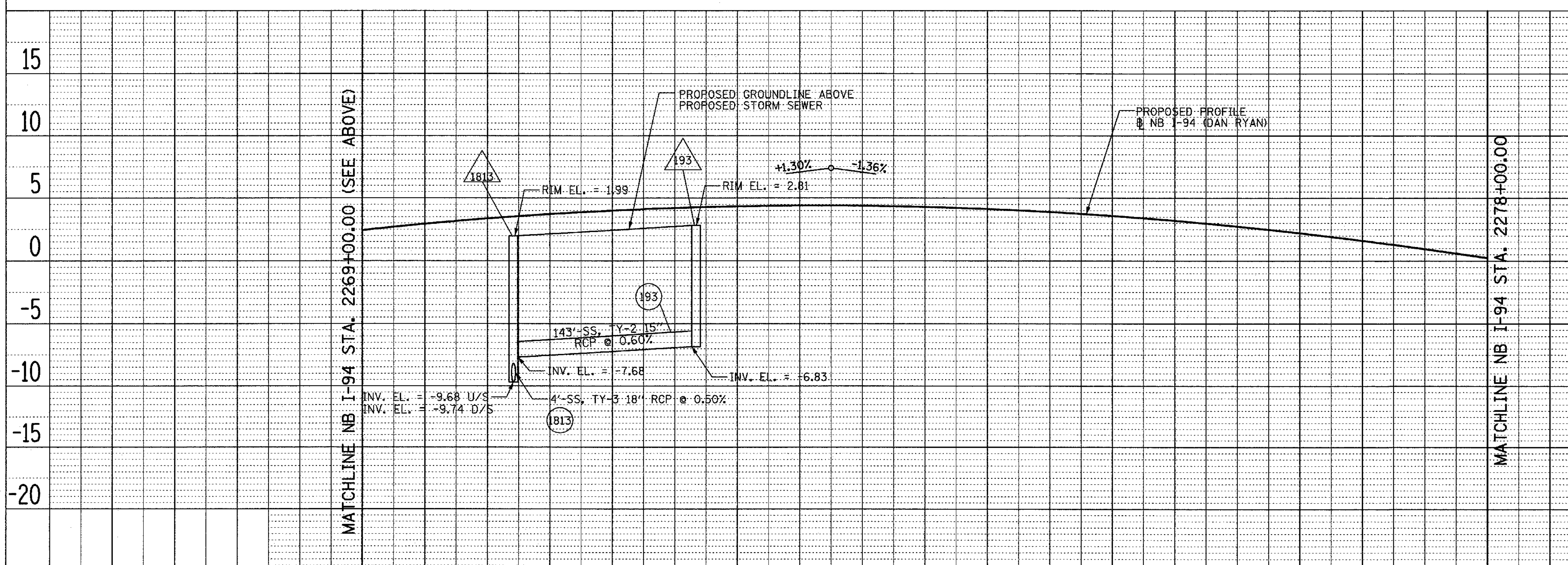
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

• (516.1, 1717 & 1818) R-8

62694





HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES
NB I-94
STA. 2260+00.00 TO 2278+00.00

SCALE: 1"=50' HORIZ. 1"=5' VERT.

DATE: MARCH 18, 2005

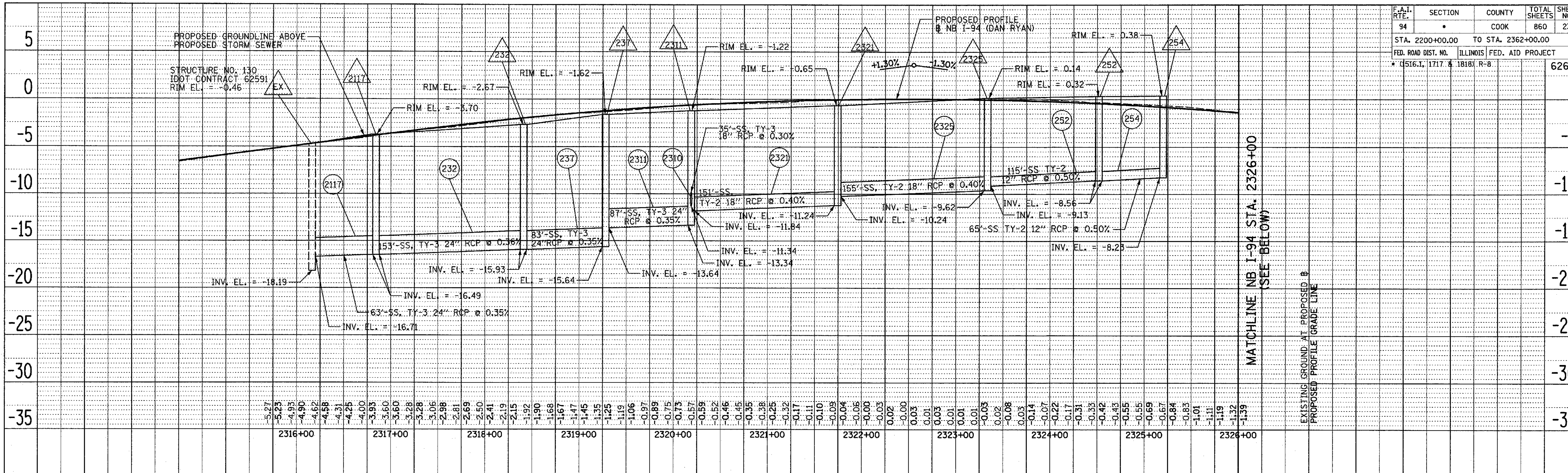
DRAWN BY: NSB

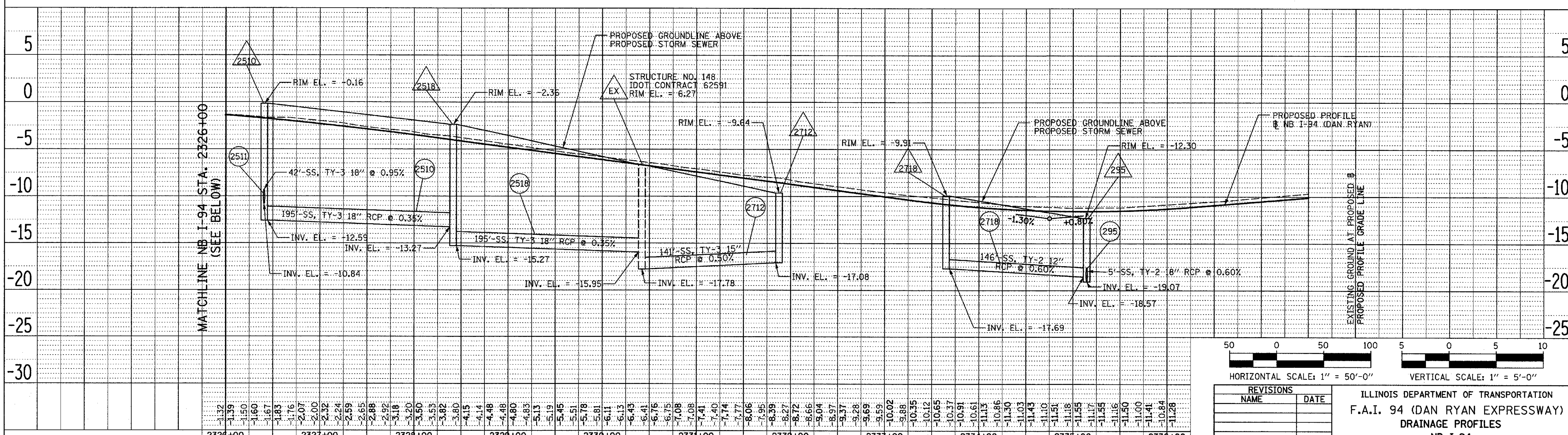
CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	237
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (516.1, 1717 & 1818) R-8

62694





HORIZONTAL SCALE: 1" = 50'-0"

VERTICAL SCALE: 1" = 5'-0"

TYLIN INTERNATIONAL

SHEET 8 OF 9

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE PROFILES

NB I-94

STA. 2316+00.00 TO 2325+00.00

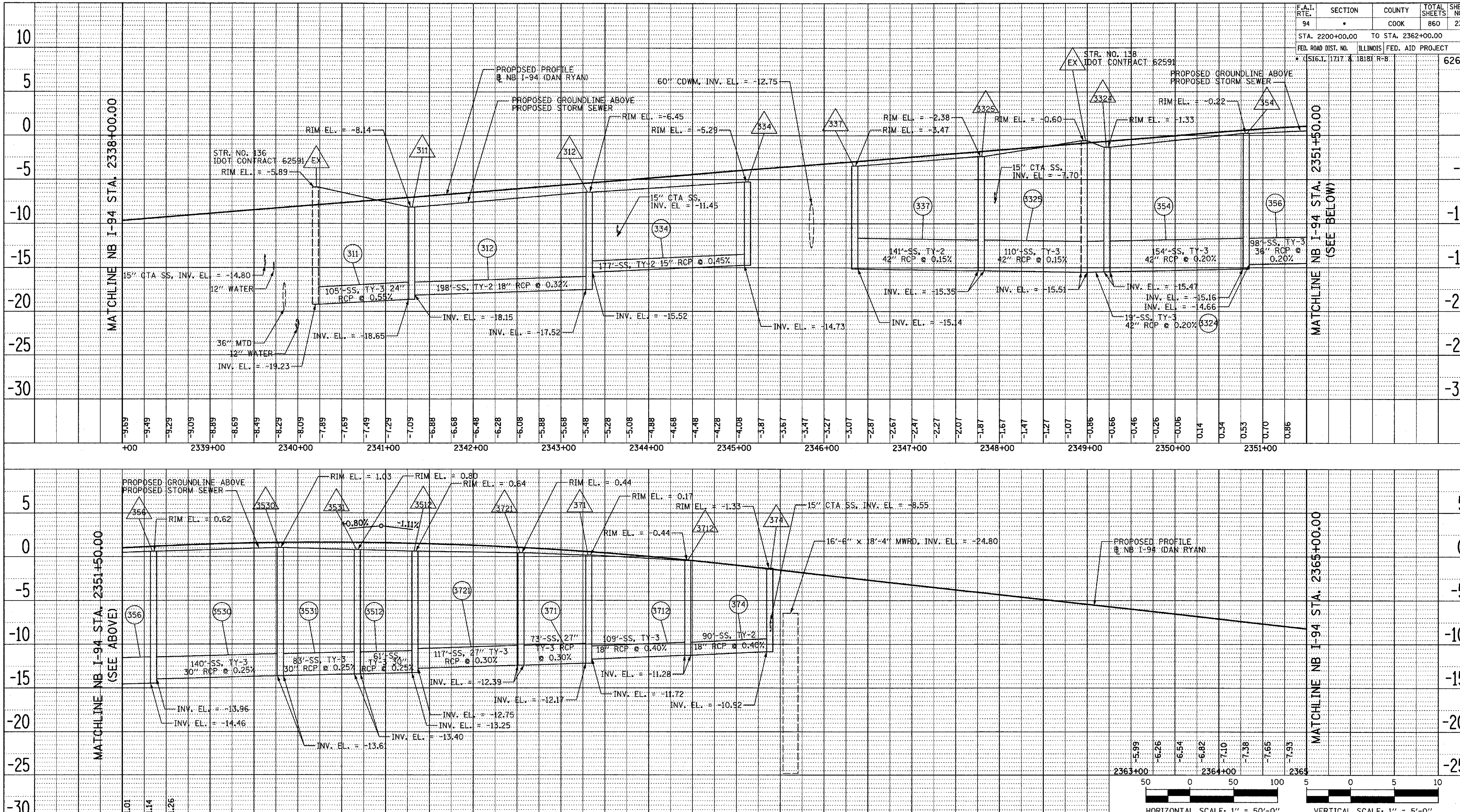
STA. 2326+00.00 TO 2336+00.00

SCALE: 1"=50' HORIZ. 1"=5' VERT.

DATE: MARCH 18, 2005

DRAWN BY: NSB

CHECKED BY: DA



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	238
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (516.1, 1717 & 1818) R-B				

62694

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

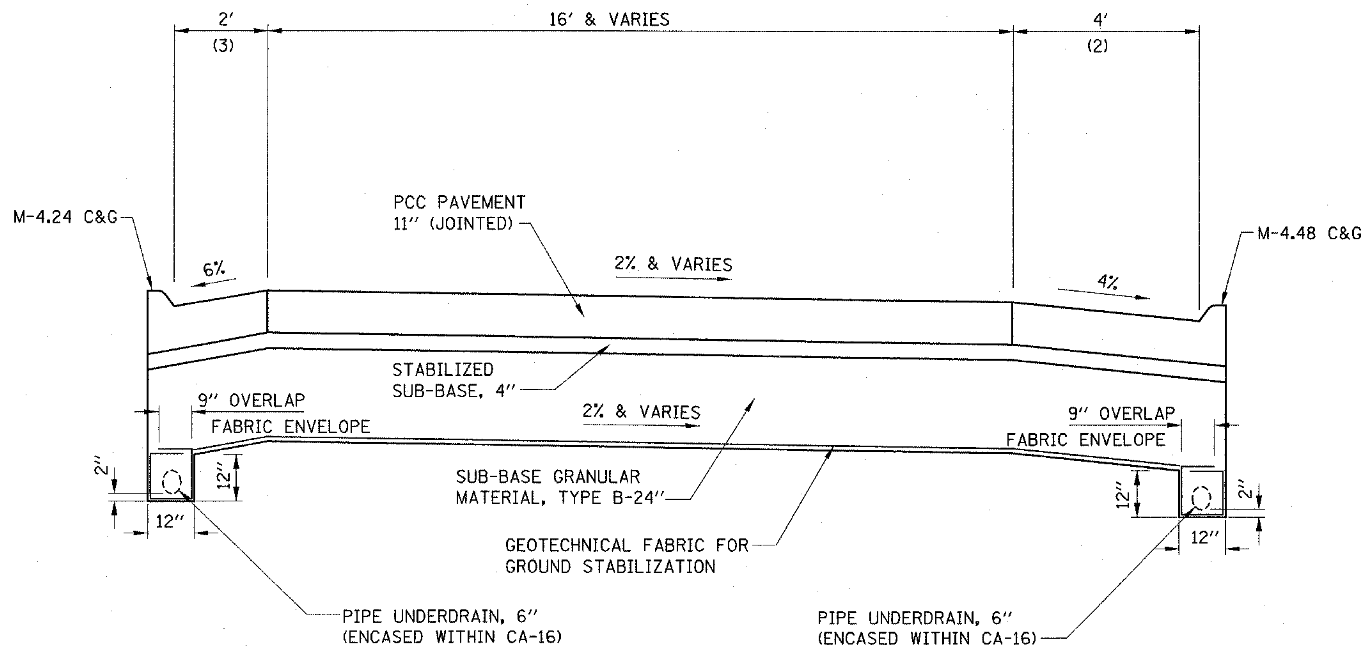
DRAINAGE PROFILES
NB I-94
STA. 2338+00.00 TO 2365+00.00

SCALE: 1"=50' HORIZ. 1"=5' VERT.
DRAWN BY: NSB
DATE: MARCH 18, 2005
CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	239
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

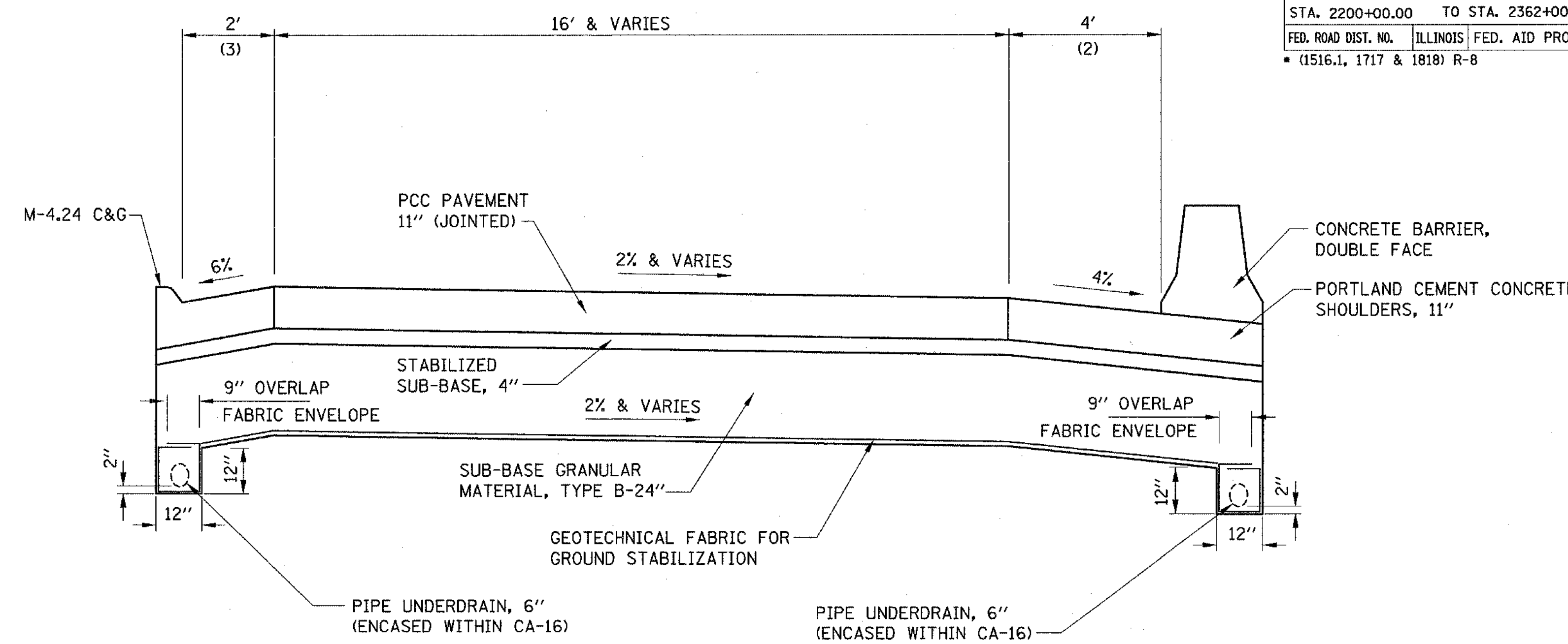
62694



PIPE UNDERDRAINS ALONG RAMPS

NOTES:

(1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED THE ENTIRE WIDTH FROM INSIDE EDGE OF PIPE UNDERDRAIN TRENCH TO INSIDE EDGE OF PIPE UNDERDRAIN TRENCH, AND SUB-BASE GRANULAR MATERIAL TYPE B-24" SHALL BE PLACED THE ENTIRE WIDTH FROM BACK-OF-CURB TO BACK-OF-CURB PRIOR TO UNDERDRAIN INSTALLATION. REPLACEMENT OF THE SACRIFICIAL SUB-BASE GRANULAR MATERIAL TYPE B-24" ABOVE THE NEWLY PLACED PIPE UNDERDRAIN TRENCHES SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE UNDERDRAIN, 6".
(2) RIGHT SHOULDER IN DIRECTION OF TRAFFIC
(3) LEFT SHOULDER IN DIRECTION OF TRAFFIC
(4) FABRIC ENVELOPE AND CA-16 ARE INCLUDED IN THE UNIT COST FOR PIPE UNDERDRAINS



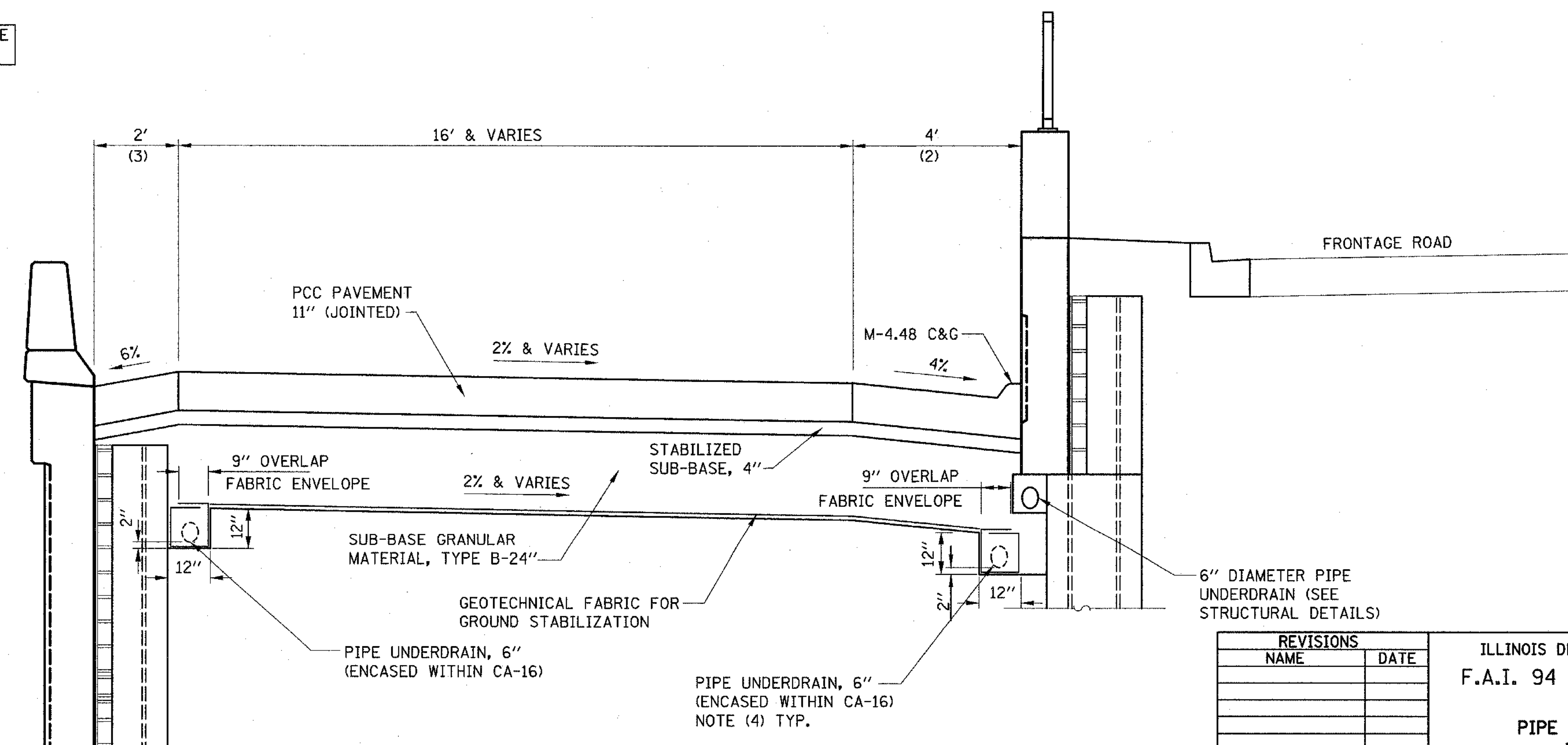
PIPE UNDERDRAINS ALONG RAMPS WITH BARRIER WALL

NOTES:

(1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED THE ENTIRE WIDTH FROM INSIDE EDGE OF PIPE UNDERDRAIN TRENCH TO INSIDE EDGE OF PIPE UNDERDRAIN TRENCH, AND SUB-BASE GRANULAR MATERIAL TYPE B-24" SHALL BE PLACED THE ENTIRE WIDTH FROM BACK-OF-CURB TO BACK-OF-BARRIER WALL PRIOR TO UNDERDRAIN INSTALLATION. REPLACEMENT OF SACRIFICIAL SUB-BASE GRANULAR MATERIAL TYPE B-24" ABOVE THE NEWLY PLACED PIPE UNDERDRAIN TRENCHES SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE UNDERDRAIN, 6".
(2) RIGHT SHOULDER IN DIRECTION OF TRAFFIC
(3) LEFT SHOULDER IN DIRECTION OF TRAFFIC
(4) FABRIC ENVELOPE AND CA-16 ARE INCLUDED IN THE UNIT COST FOR PIPE UNDERDRAINS.

NOTES:

(1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED THE ENTIRE WIDTH FROM INSIDE EDGE OF PIPE UNDERDRAIN TRENCH TO INSIDE EDGE OF PIPE UNDERDRAIN TRENCH, AND SUB-BASE GRANULAR MATERIAL TYPE B-24" SHALL BE PLACED THE ENTIRE WIDTH FROM RETAINING WALL FACE TO RETAINING WALL FACE PRIOR TO UNDERDRAIN INSTALLATION. REPLACEMENT OF THE SACRIFICIAL SUB-BASE GRANULAR MATERIAL TYPE B-24" ABOVE THE NEWLY PLACED PIPE UNDERDRAIN TRENCHES SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE UNDERDRAIN, 6".
(2) RIGHT SHOULDER IN DIRECTION OF TRAFFIC
(3) LEFT SHOULDER IN DIRECTION OF TRAFFIC
(4) FABRIC ENVELOPE AND CA-16 ARE INCLUDED IN THE UNIT COST FOR PIPE UNDERDRAINS



PIPE UNDERDRAINS ALONG RAMPS WITH RETAINING WALLS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
130 EAST RANDOLPH STREET SUITE 2650
CHICAGO, ILLINOIS 60601
JOB NO. 660

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

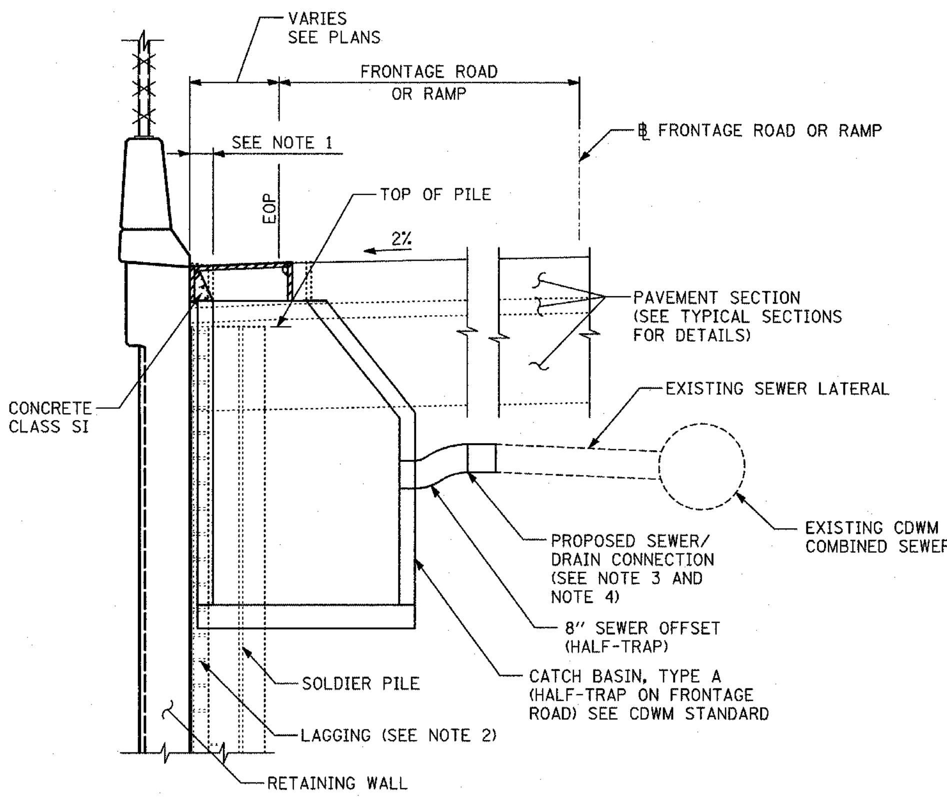
PIPE UNDERDRAINS ALONG RAMPS DETAILS

SCALE: NONE
DATE: MARCH 18, 2005
DRAWN BY: BBA
CHECKED BY: TYLI

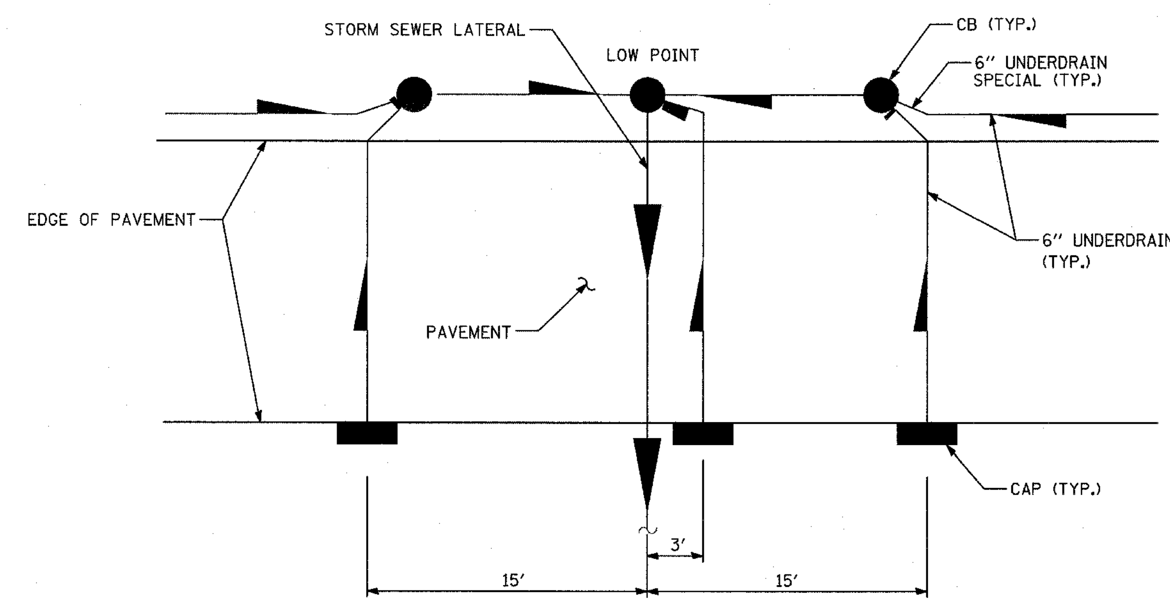
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	240
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

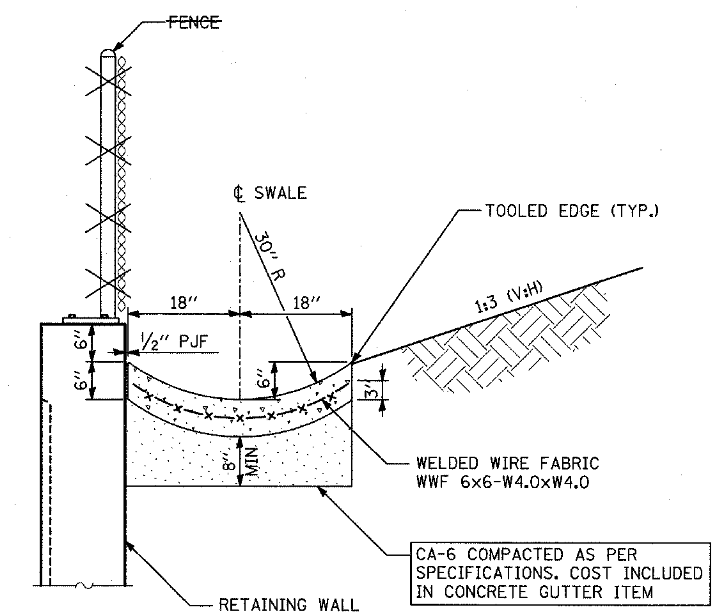
62694



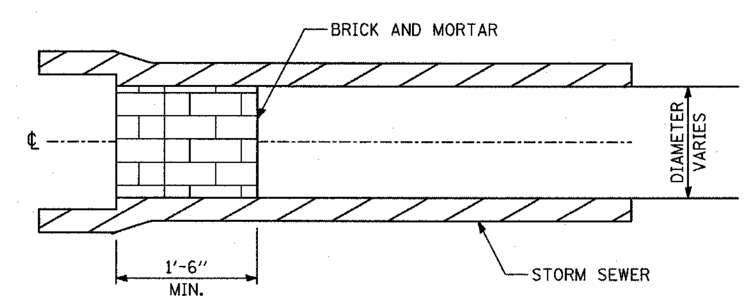
CROSS SECTION THRU WALL/CATCH BASIN



PIPE UNDERDRAIN 6", AT ROADWAY SAGS



CONCRETE GUTTER



STORM SEWER PLUG

NOTES:

1. SLOPE SHOULDER AREA BETWEEN CATCH BASIN GRATE AND BARRIER WALL TOWARDS GRATE WHEN USING TYPE 1 F&G.
2. ALL CATCH BASINS ARE LOCATED TO AVOID SOLDIER PILES AND ENCASEMENT. WOOD LAGGING IS REQUIRED TO BE REMOVED FOR THE CONTACT AREA BETWEEN THE CATCH BASIN AND WALL TO ALLOW FOR CATCH BASIN CONSTRUCTION. COST INCLUDED IN CATCH BASIN PAY ITEM.
3. ALL EXISTING CATCH BASINS ALONG FRONTAGE ROADS THAT ARE BEING REMOVED AND REPLACED SHALL CONNECT TO EXISTING CDWM SEWER LATERALS WITH SAME PIPE MATERIAL AND SIZE AS EXISTING LATERALS, PAID FOR FOOT, AS "DRAIN CONNECTION". ALL NEW CONNECTIONS TO COMBINED SEWER SHALL BE "COMBINED SEWER, ESVCP, TYPE 2, OF THE SIZE SPECIFIED" (SEE SCHEDULE FOR SPECIFIC SIZE) PAID FOR FOOT, AS "COMBINED SEWER ESVCP, TYPE 2".
4. INVERT ELEVATION FOR ALL PROPOSED SEWER LATERALS WITH A CDWM HALF TRAP (1/2) CONNECTION.
5. ALL NECESSARY PRECUATIONS SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGE TO GEOCOMPOSITE WALL DRAIN. IF ANY PART GETS DAMAGED DURING CONSTRUCTION, THEN IT SHALL BE REPLACED WITH NO ADDITIONAL COST TO THE DEPARTMENT. COST SHALL BE INCLUDED IN CATCH BASIN ITEM.

NOTES:

1. THIS WORK CONSISTS OF FURNISHING BRICKS AND MORTAR AS SHOWN AND AS DIRECTED BY THE ENGINEER AT LOCATIONS SHOWN IN THE PLANS TO PLUG THE EXISTING AND/OR PROPOSED STORM SEWER LATERAL STUBS. THIS PLUG WILL BE REMOVED BY OTHERS FOR FUTURE EXTENSION OF THE STORM SEWER.
2. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, PER ARTICLE 550.05.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

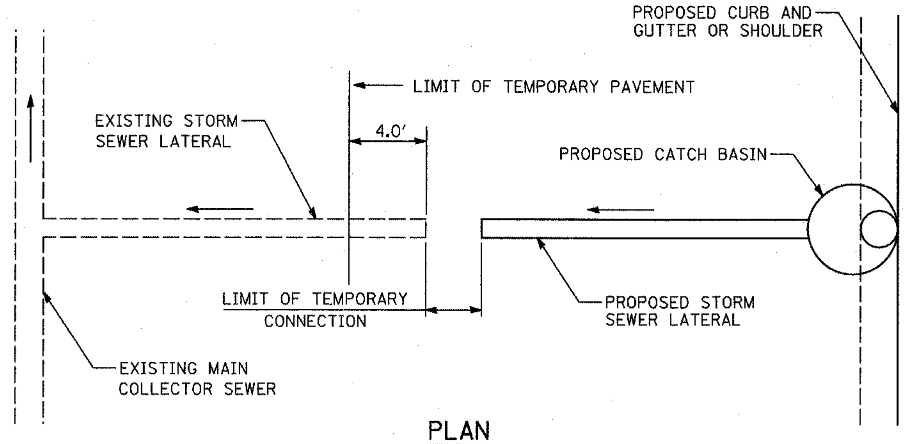
DRAINAGE DETAILS
SHEET 1 OF 3

SCALE: NONE
DATE: MARCH 18, 2005
DRAWN BY: MB
CHECKED BY: DA

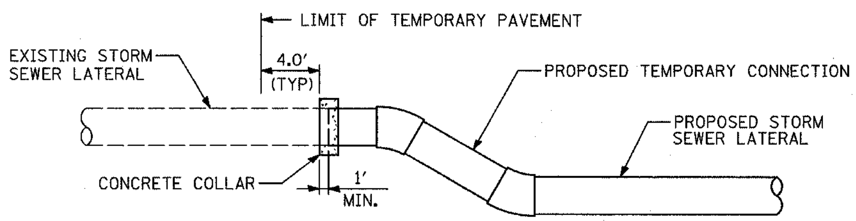
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	241
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



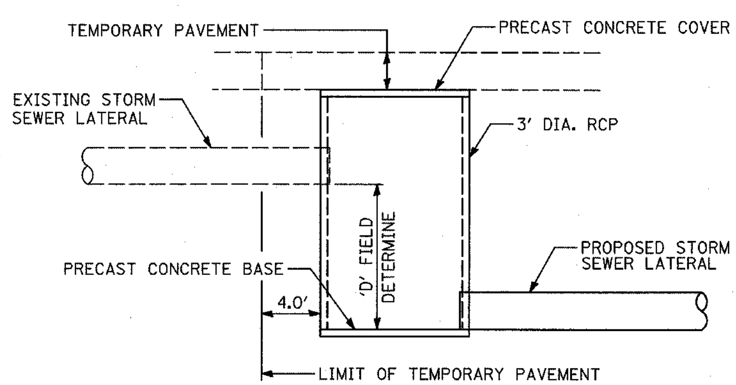
PLAN



D = DIFFERENCE IN INVERTS

PROFILE 1 (D≤2')

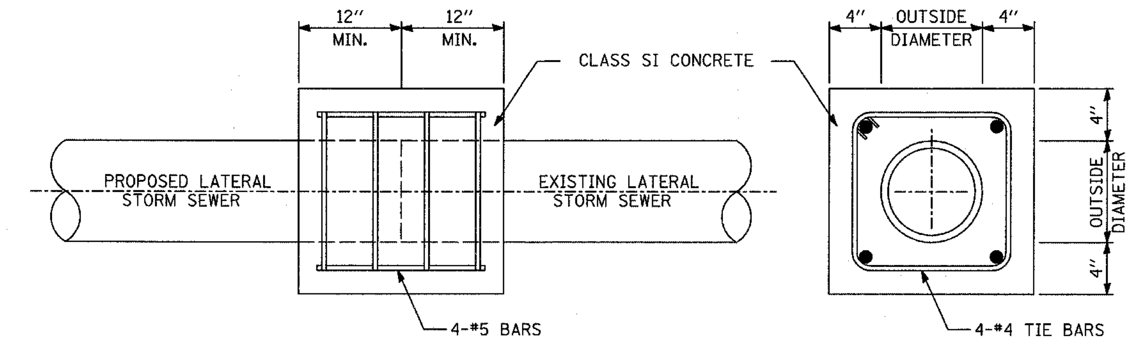
(SEE NOTE 2)



PROFILE 2 (D>2')

(SEE NOTE 2)

PROPOSED TEMPORARY STORM SEWER CONNECTION DETAIL

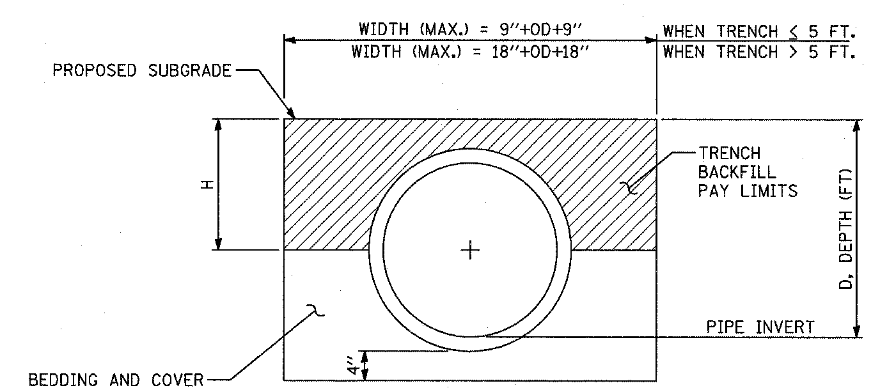


THE PROPOSED CONCRETE COLLAR SHALL OVERLAP EACH STORM SEWER PIPE A MINIMUM OF 1 FOOT.

CLASS SI CONCRETE COLLAR

NOTES:

1. IN ORDER TO MAINTAIN CONTINUOUS DRAINAGE THROUGHOUT THE CONSTRUCTION AREA, TEMPORARY CONNECTIONS SHALL BE PROVIDED TO CONNECT PROPOSED STORM SEWER LATERALS TO THE EXISTING STORM SEWER LATERALS. THE CONTRACTOR SHALL CONSTRUCT THESE TEMPORARY CONNECTIONS IN ACCORDANCE WITH ONE OF THE TWO OPTIONS DETAILED ABOVE.
2. THE TOTAL COST OF INSTALLING THE TEMPORARY CONNECTIONS IS NOT PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE SEWER PAY ITEM.



TRENCH BACKFILL DETAIL

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

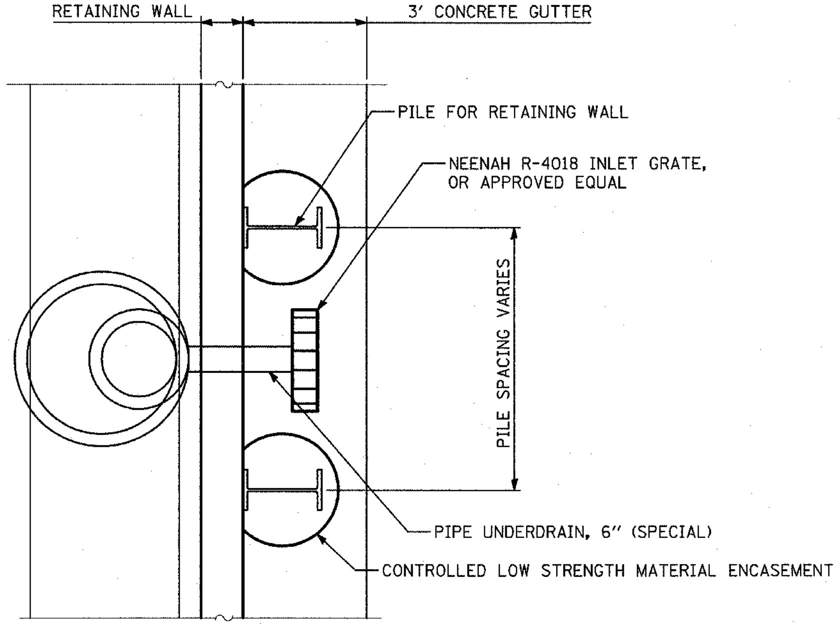
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE DETAILS
SHEET 2 OF 3

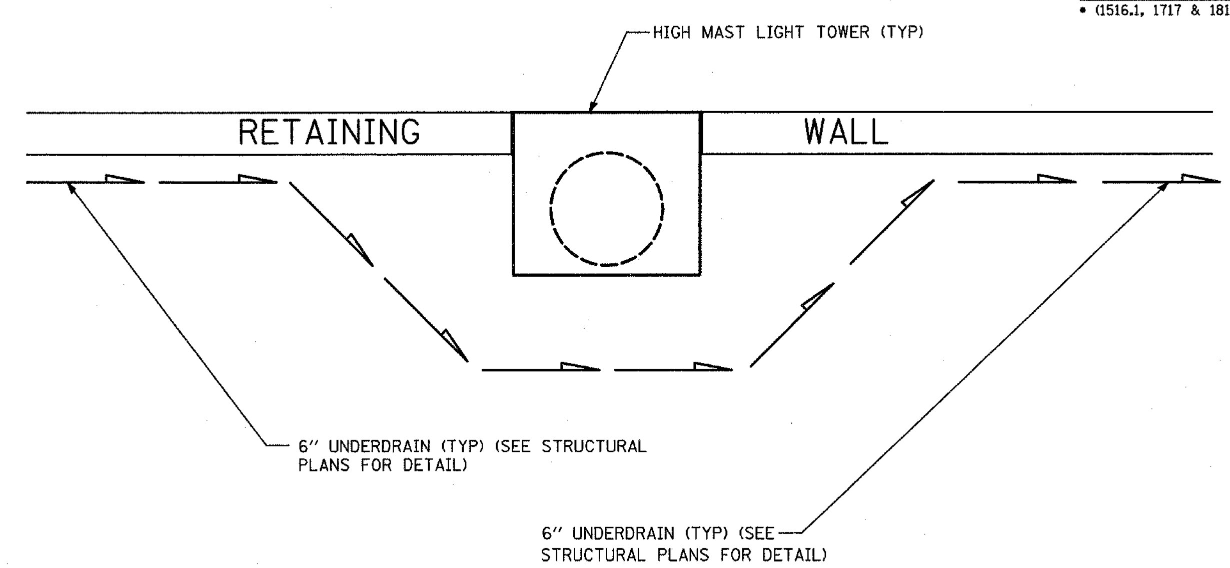
SCALE: NONE | DRAWN BY: DM
DATE: MARCH 18, 2005 | CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	242
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

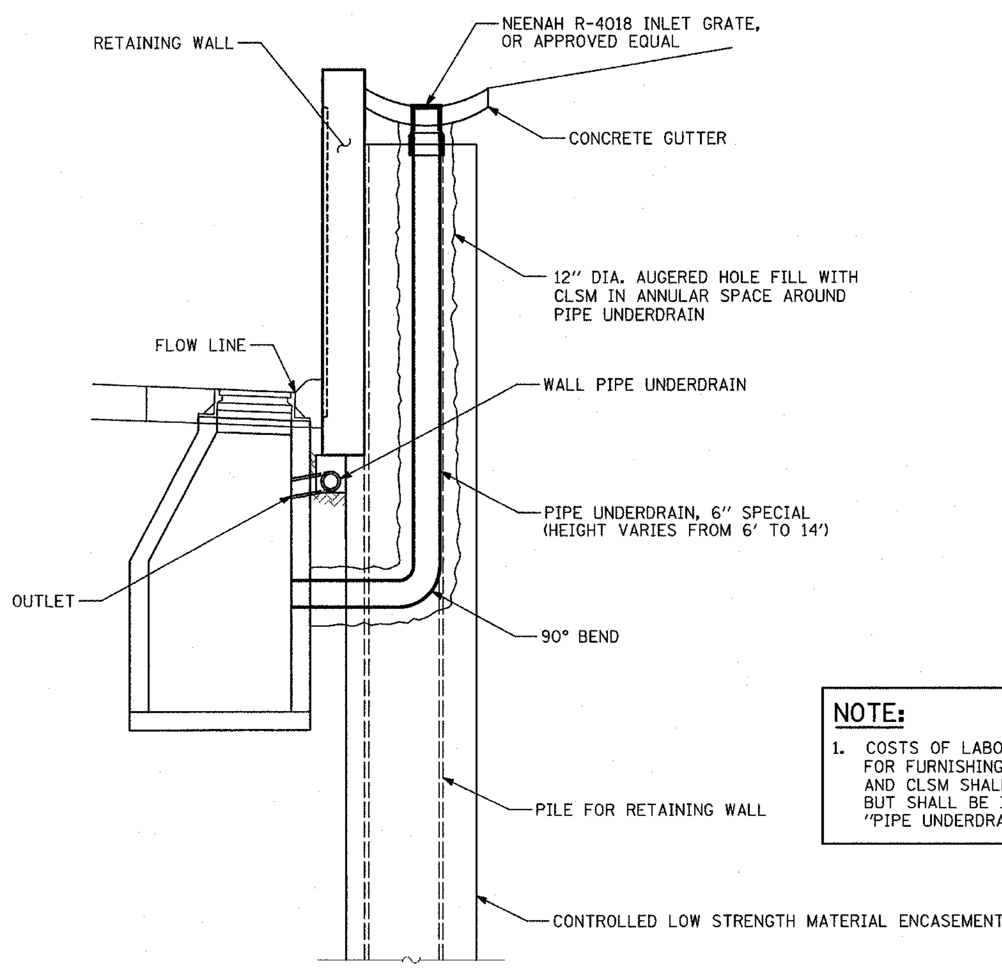
• (1516.1, 1717 & 1818) R-8 62694



PLAN, CONCRETE GUTTER OUTLET
(NTS)



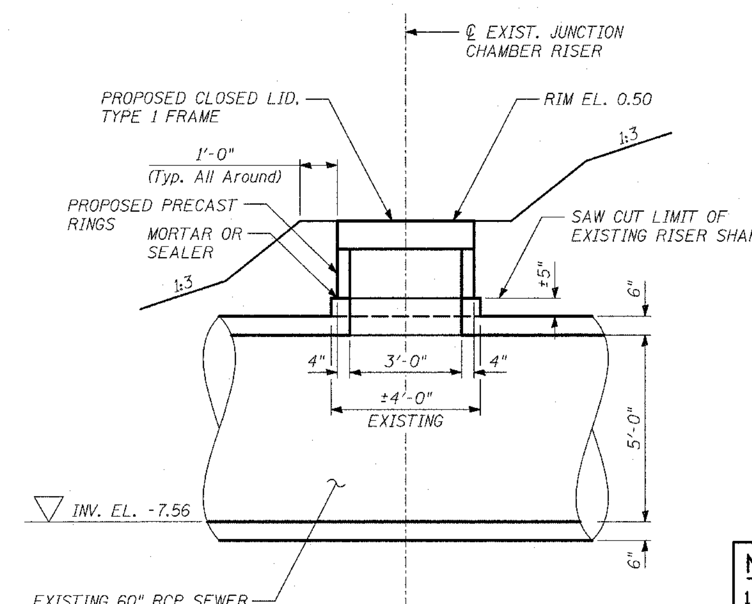
PIPE UNDERDRAIN AROUND HIGH MAST LIGHT TOWER DETAILS
(NTS)



ELEVATION, CONCRETE GUTTER OUTLET
(NTS)

NOTE:

1. COSTS OF LABOR, MATERIAL AND EQUIPMENT FOR FURNISHING AND INSTALLING THE INLET GRATE AND CLSM SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PER FOOT COST OF "PIPE UNDERDRAIN, 6" SPECIAL".



RISER SHAFT RECONSTRUCTION DETAIL
STATION 2266+11.46, OFFSET 88.24 RT

NOTE:

1. TO BE PAID FOR AS "MANHOLES TO BE RECONSTRUCTED"

T·Y·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

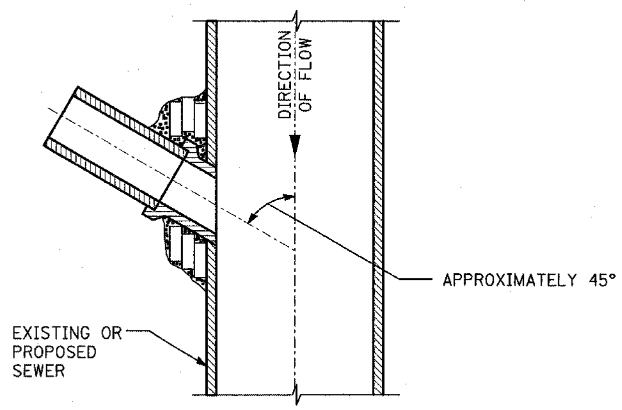
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE DETAILS
SHEET 3 OF 3

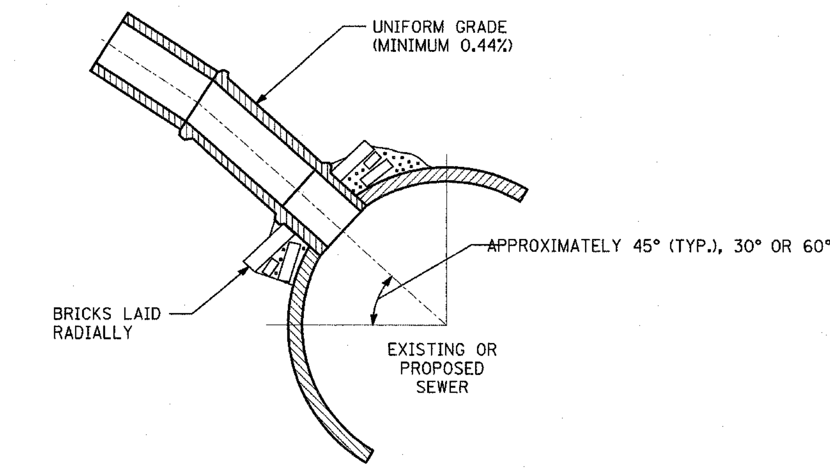
SCALE: N.T.S. DRAWN BY: DM
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	243
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

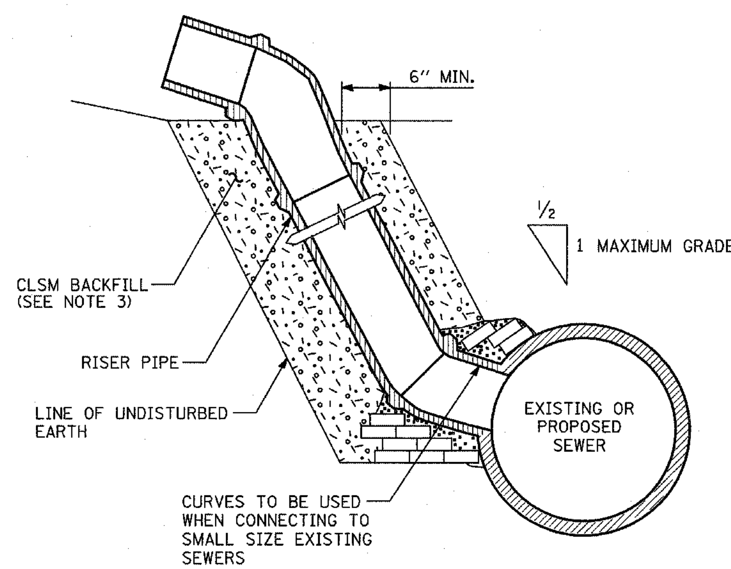
• (1516.1, 1717 & 1818) R-6 62694



PLAN VIEW
DETAIL 1



SECTION VIEW
DETAIL 2



SECTION VIEW
DETAIL 3

DETAILS OF PROPOSED STORM SEWER CONNECTIONS
TO EXISTING/PROPOSED SEWERS

NOTES:

DESCRIPTION:

ALL CATCH BASIN CONNECTIONS SHALL BE 12 INCH STORM SEWER PIPE, UNLESS SHOWN OR SPECIFIED OTHERWISE ON PLAN SHEETS.

CONSTRUCTION METHODS:

1. CONNECTION TO PROPOSED STORM SEWER: WHERE A STORM SEWER CONNECTION IS TO BE MADE TO A PROPOSED STORM SEWER, A "Y" BRANCH SECTION OR A SECTION WITH AN OPENING MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED OF THE PROPER DIAMETER SHALL BE INSTALLED IN THE SEWER AT THE JUNCTION PROVIDING THE TYPE OF PIPE USED IS MANUFACTURED WITH "Y" BRANCHES OR WITH OPENING MADE IN THE PIPE.

   THE JUNCTION OF THE PROPOSED STORM SEWER CONNECTION WITH THE PROPOSED STORM SEWER SHALL BE CONSTRUCTED AS FOLLOWS:

   a. SIMILAR TO DETAIL 1 AND DETAIL 2 TO THE LEFT EXCEPT NO BRICK WILL BE REQUIRED IF SECTIONS WITH "Y" BRANCHES OR SECTIONS WITH OPENINGS MADE IN THE PIPE ARE USED.

   b. SAME AS DETAIL 3 TO THE LEFT.

2. CONNECTION TO EXISTING SEWER: WHERE A STORM SEWER CONNECTION IS TO BE MADE TO AN EXISTING SEWER, A CIRCULAR OPENING SHALL BE MADE IN THE EXISTING SEWER OF THE SAME SIZE AS THE INTERNAL DIAMETER OF THE PROPOSED STORM SEWER CONNECTION.

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

   THE JOINT BETWEEN THE EXISTING SEWER AND THE PROPOSED SEWER SHALL BE COMPLETELY SEALED WITH BRICK AS SHOWN ABOVE. BRICK GRADE SW, OR CONCRETE BUILDING BRICK GRADE A, SHALL BE LAID IN MORTAR THE SAME AS SPECIFIED FOR BRICK MASONRY UNDER ARTICLE 602.05 OF THE STANDARD SPECIFICATIONS.

3. ALL CLSM REQUIRED SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN SEWER PAY ITEM.

BASIS OF PAYMENT.

ALL FITTINGS SUCH AS ELBOWS AND CURVES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR STORM SEWER MEASURED IN PLACE.

THE COST OF MAKING ALL JUNCTIONS WITH EXISTING OR PROPOSED SEWERS, MANHOLES OR CATCH BASINS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR STORM SEWER.

TY·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

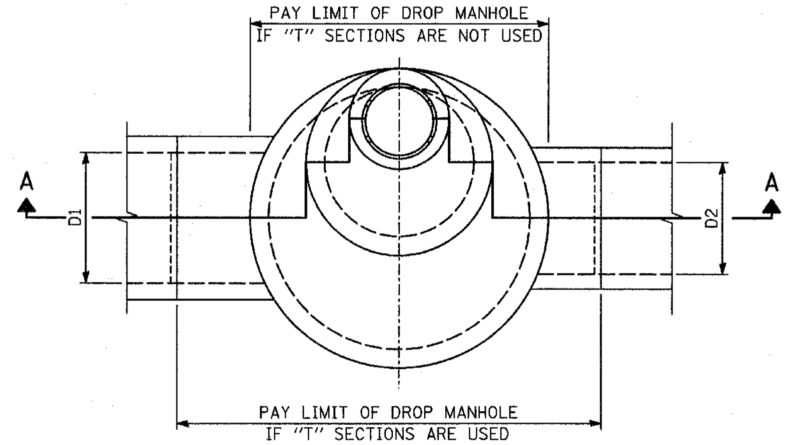
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DETAIL OF STORM SEWER CONNECTIONS TO SEWER

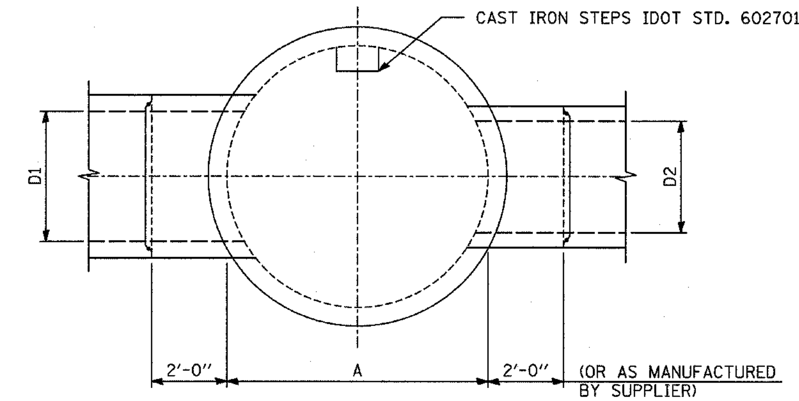
SCALE: NONE DRAWN BY: BK
DATE: MARCH 18, 2005 CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	244
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

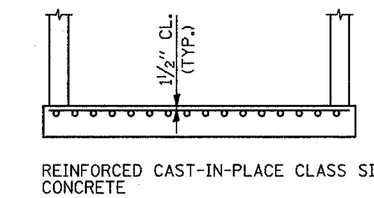
• (1516.1, 1717 & 1818) R-8 62694



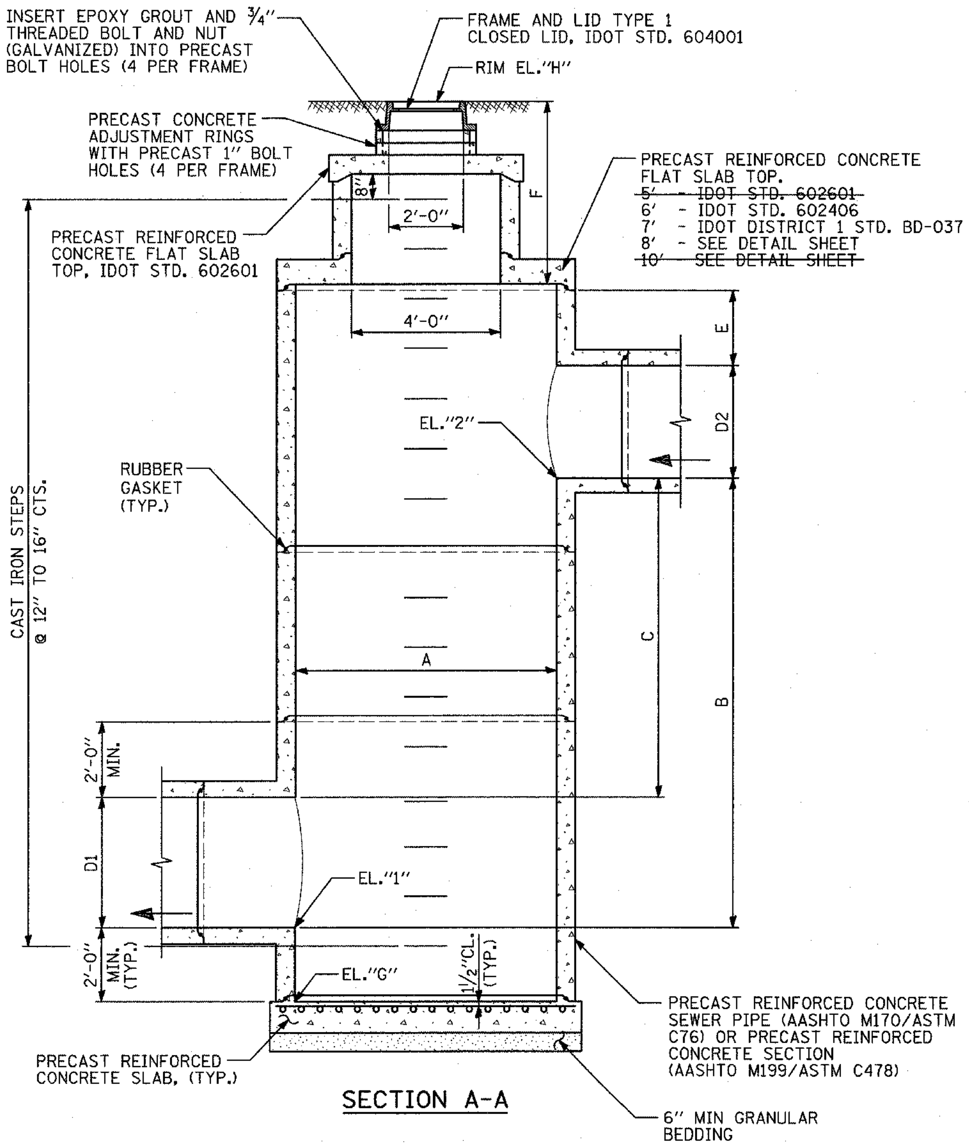
PLAN VIEW



SECTIONAL PLAN

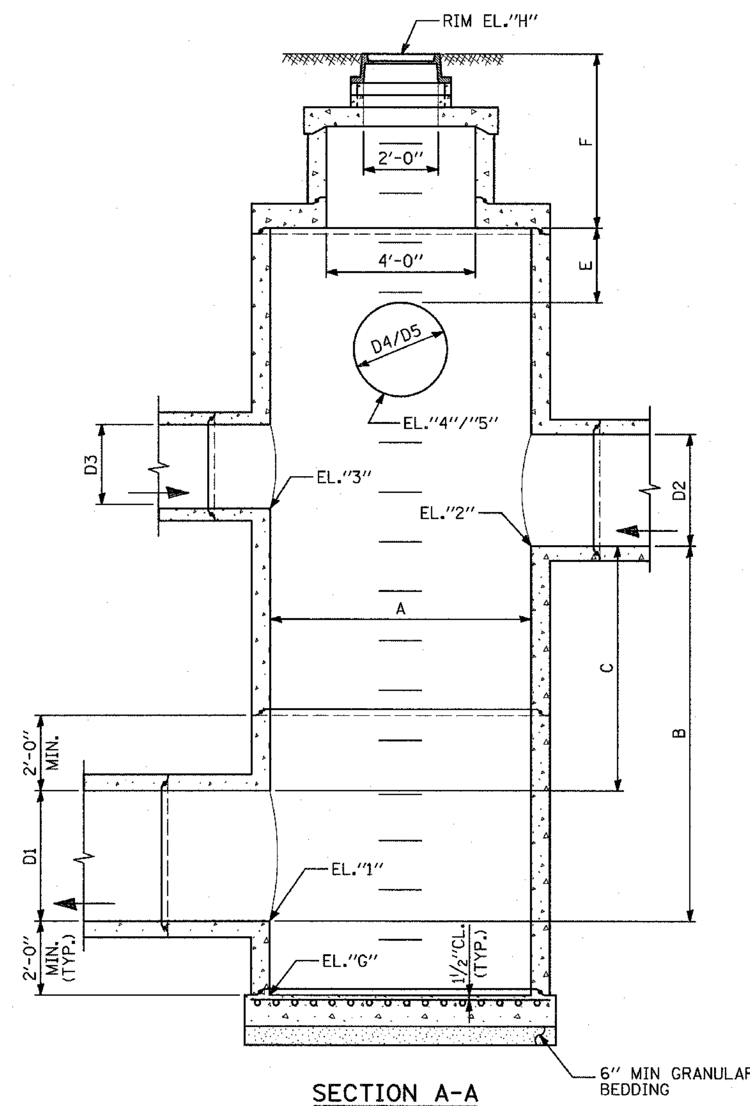


ALTERNATE BOTTOM SLAB



SECTION A-A

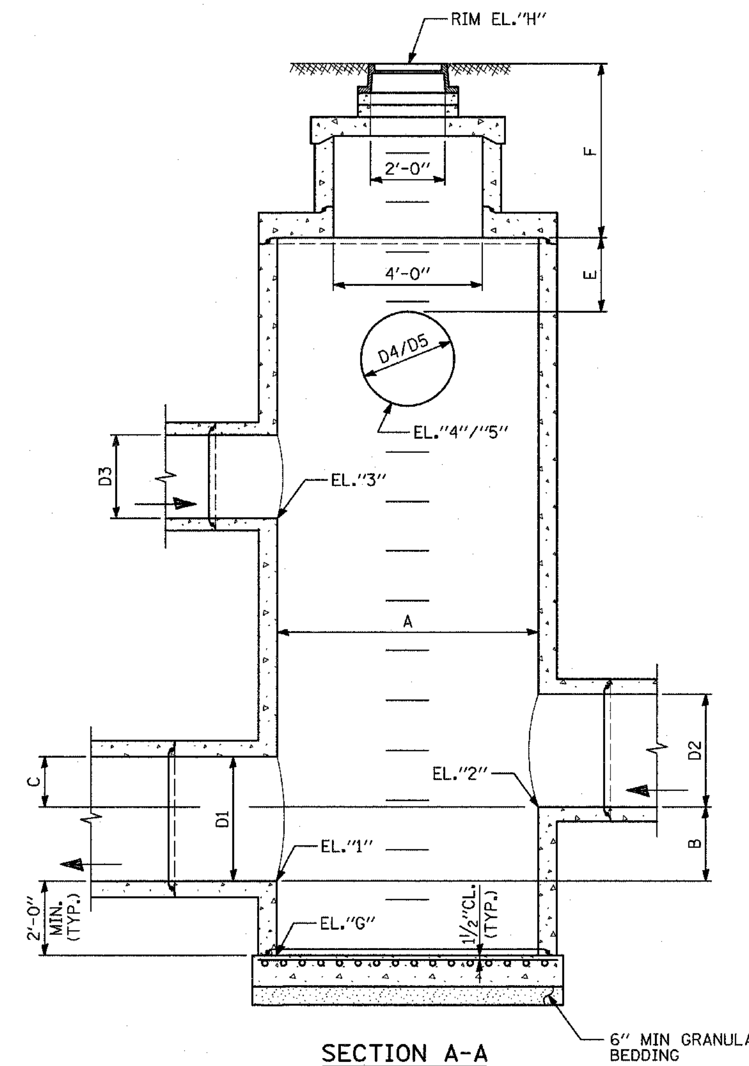
DROP MANHOLE TYPE 1



SECTION A-A

DROP MANHOLE TYPE 2

(SEE NOTE 9)



SECTION A-A

DROP MANHOLE TYPE 3

(SEE NOTE 10)

NOTES:

1. ALL DIMENSIONS ARE INSIDE DIMENSIONS.
2. UTILIZE PIPE "T" SECTIONS WHENEVER AVAILABLE.
3. PRESET PIPE OPENINGS IN PRECAST REINFORCED CONCRETE SECTIONS IF "T" SECTIONS AND SPECIAL FITTINGS ARE NOT AVAILABLE.
4. ROTATE FLAT SLAB AND MANHOLE RISER SO STEPS AVOID STORM SEWER OPENINGS.
5. CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.
   STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.
6. JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.
7. LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.
8. ALL WORK SHALL BE AS PER AASHTO REQUIREMENTS. ASTM IS LISTED AS SUPPLEMENTARY.
9. SIMILAR TO TYPE 1, ALSO WITH SEWERS D3, D4 AND D5.
10. SIMILAR TO TYPE 1, ALSO WITH SEWERS D3, D4, D5 AND LOWER D2.

T·Y·LIN INTERNATIONAL

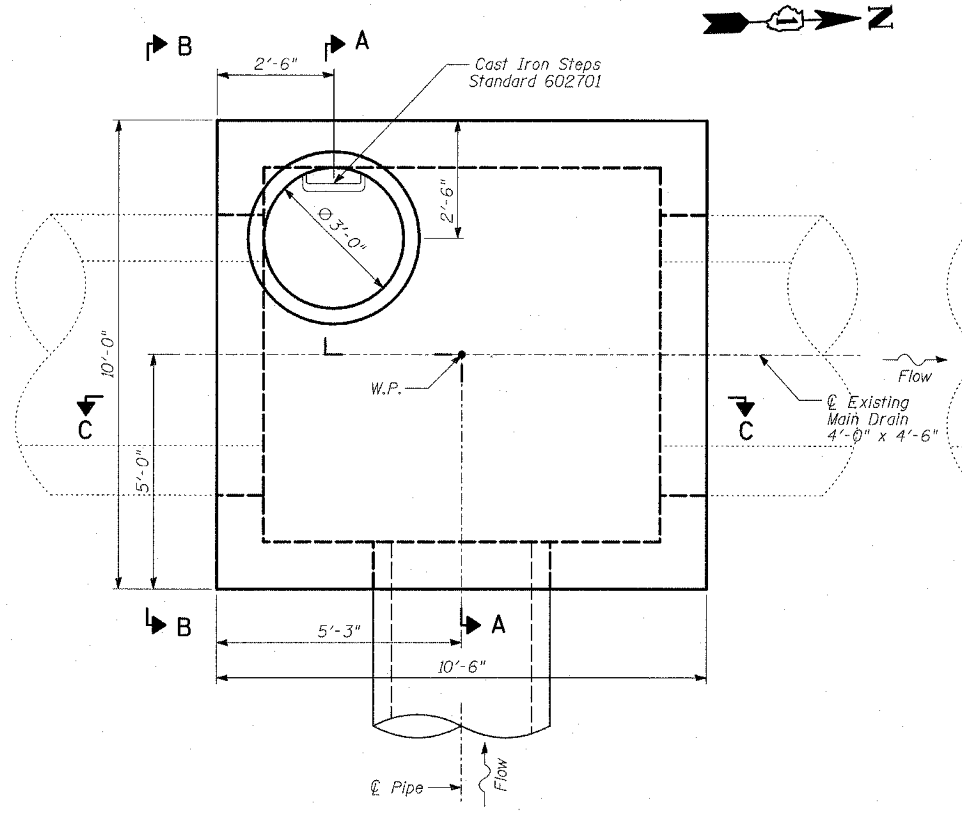
REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

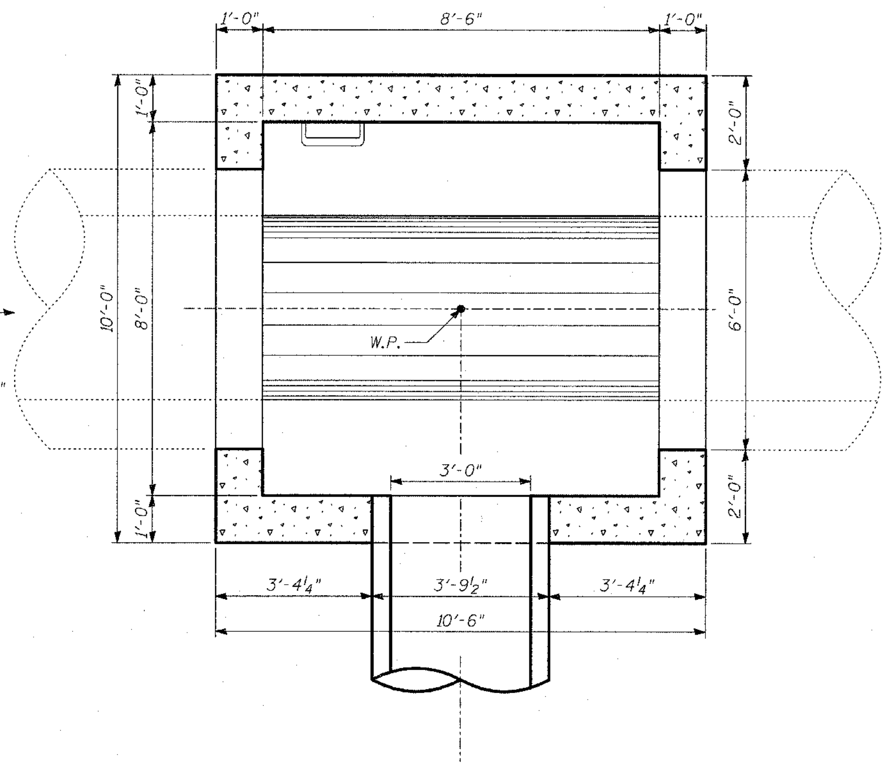
F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE DETAILS
DROP MANHOLE

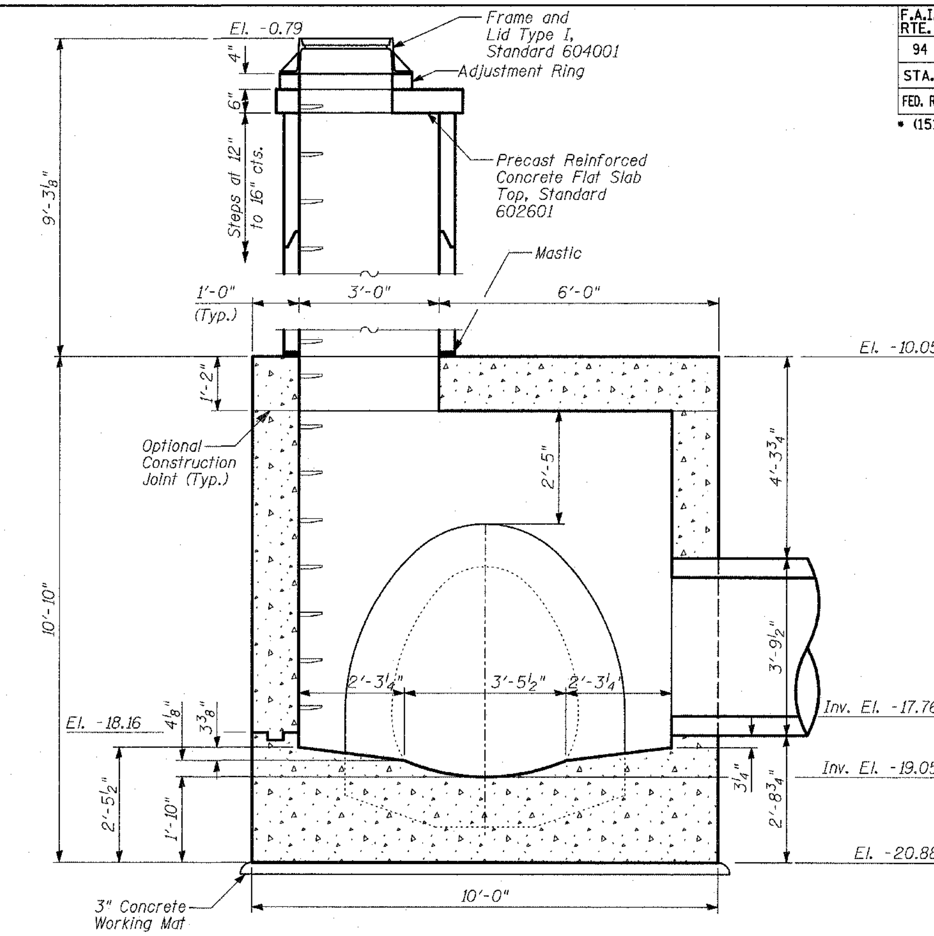
SCALE: NONE | DRAWN BY: RD
DATE: MARCH 18, 2005 | CHECKED BY: DA



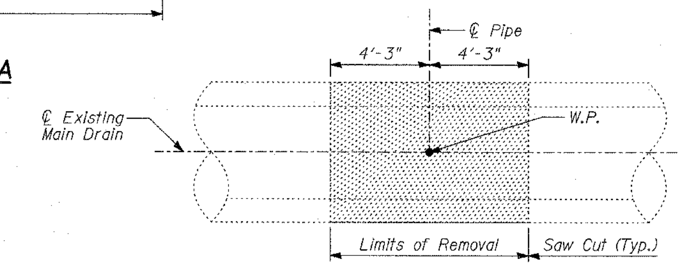
PLAN



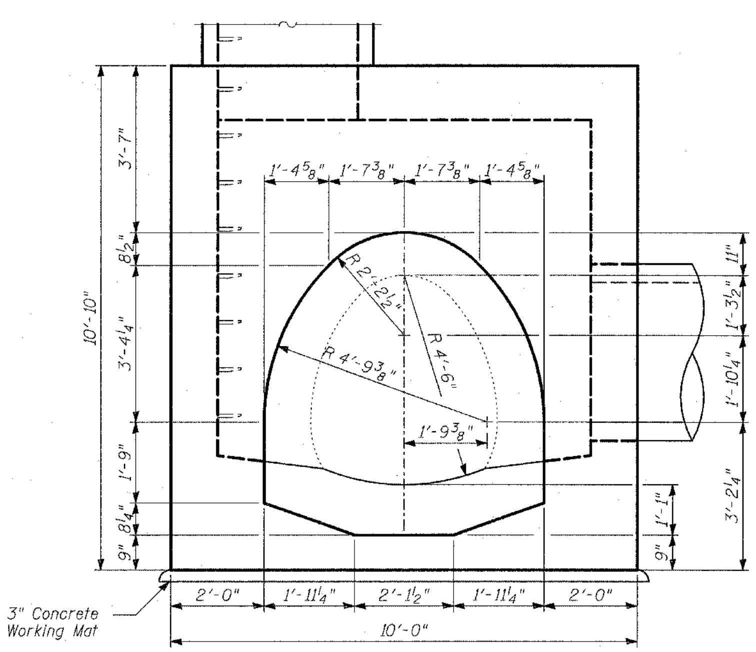
SECTIONAL PLAN



SECTION A-A

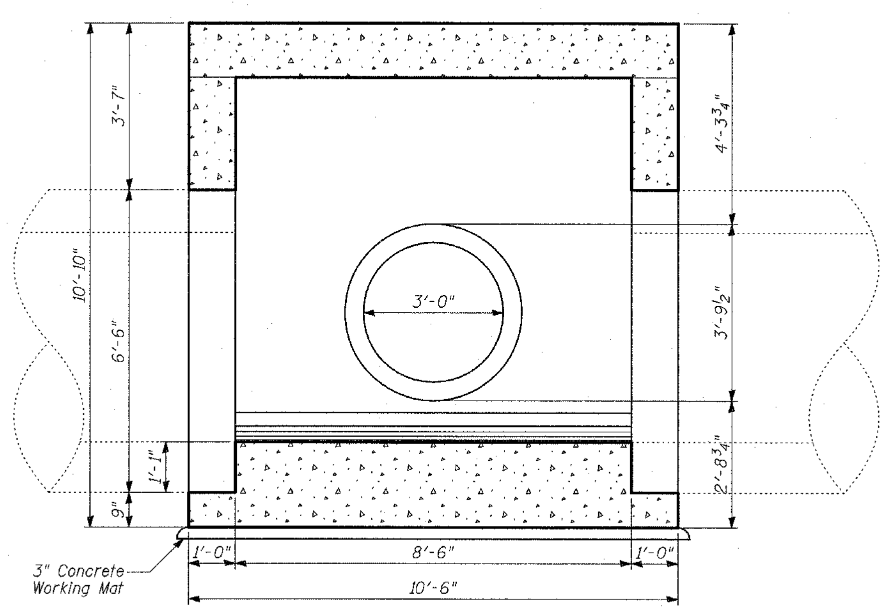


REMOVAL PLAN



ELEVATION VIEW B-B

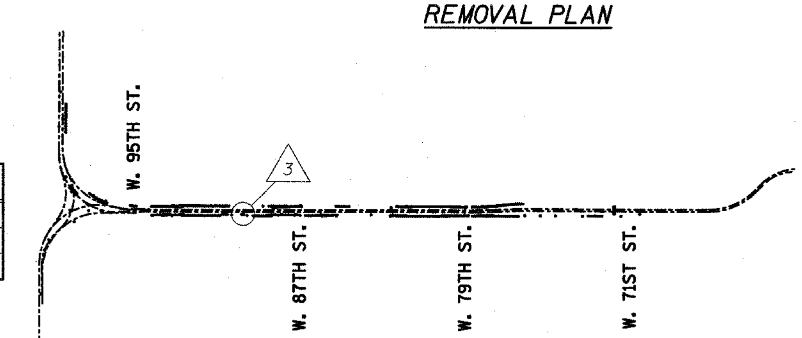
(Typical Both Faces)



SECTION C-C

TOTAL BILL OF MATERIAL

ITEM	UNIT	J.C. 3 TOTAL
Junction Chamber No. 3	EACH	1
Braced Excavation	CU YD	152
Porous Granular Embankment	CU YD	109



LOCATION SKETCH

GENERAL NOTES:

1. Alternate materials for the junction chamber top slab may be cast-in-place concrete or precast reinforced concrete.
2. The Contractor shall verify the location of the main drain before submitting the braced excavation drawings.
3. Excavation shall be performed simultaneously on each side of the existing Main Drain, followed by simultaneous backfilling around the junction chamber.
4. Retention systems placed within ten (10) feet of a water main must remain in place permanently.
5. All pipe openings are based on wall C ASTM C76, coordinate openings with pipe supplier.
6. Cast iron steps shall be gray iron conforming to the requirements of Article 1006.14 of the Standard Specifications.
7. See Standard 602701 for details of cast iron steps.
8. For additional information, see Standard Specifications.
9. For reinforcement details, see Sheets 2 and 3 of 3.
10. For additional details, see Drainage Schedules.
11. The maximum width of excavation is the width of the junction chamber plus 4 feet, and the maximum length is the length of the junction chamber plus 4 feet. Excavation outside the maximum dimensions specified will not be measured for payment.
12. The design of the braced excavation is the responsibility of the Contractor. The Contractor shall submit drawings and design for the braced excavation to the Engineer for approval. The braced excavation design and drawings shall be signed and sealed by an Illinois Licensed Structural Engineer, submitted and approved prior to the start of any work. The Engineer's approval shall not relieve the Contractor from the sole responsibility of the structural integrity of the braced excavation system.
13. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

STATE OF ILLINOIS PHILLIP D. FREY 081-004826 CHICAGO, ILLINOIS LICENSED STRUCTURAL ENGINEER

Signed Phillip D. Frey
Phillip D. Frey, S.E. Il. Lic. No. 081-004826 Expires 11-30-2006.
Date 3/18/05

For drawings 1 thru 3

SHEET 1 OF 3

REVISIONS	
NAME	DATE

TYLIN INTERNATIONAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

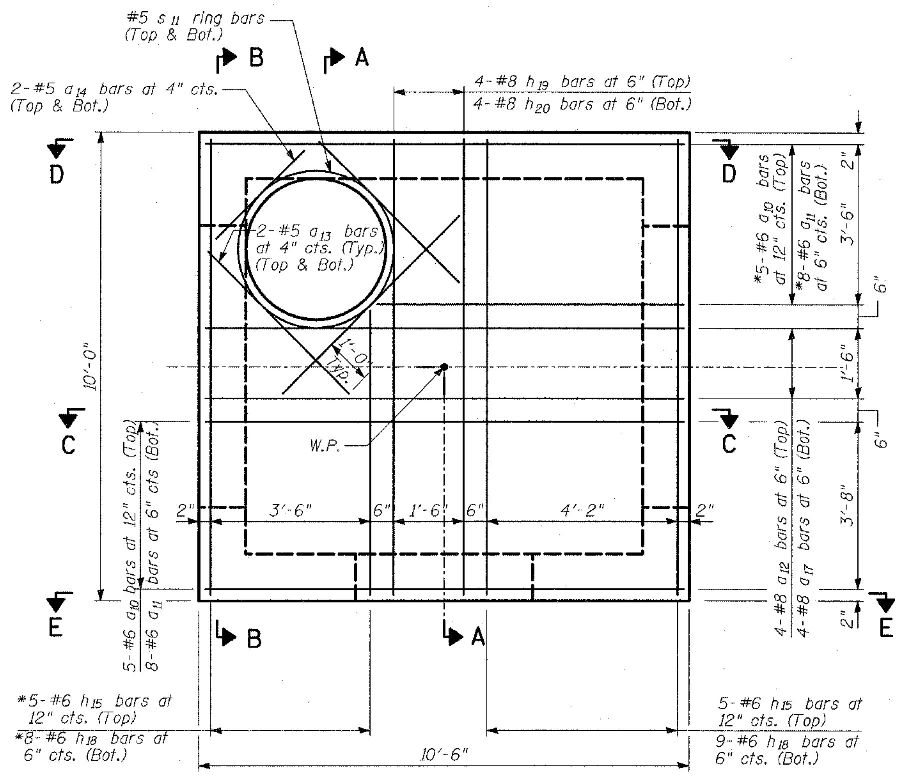
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 3
GENERAL PLAN AND ELEVATION
STA 8720+46.68 OFFSET 0.68 LT

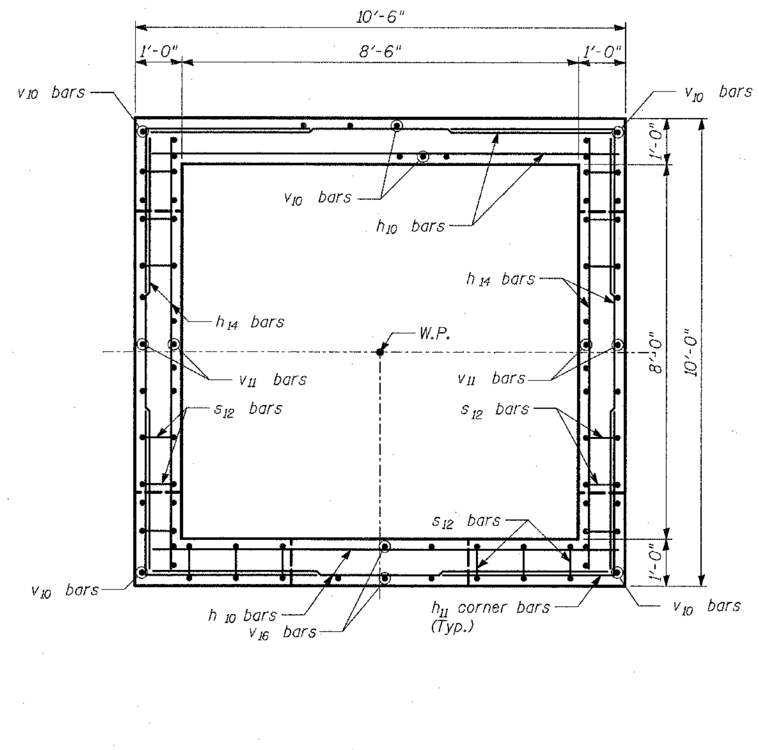
S.N.
SCALE:
DATE: MARCH 18, 2005
DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	246
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

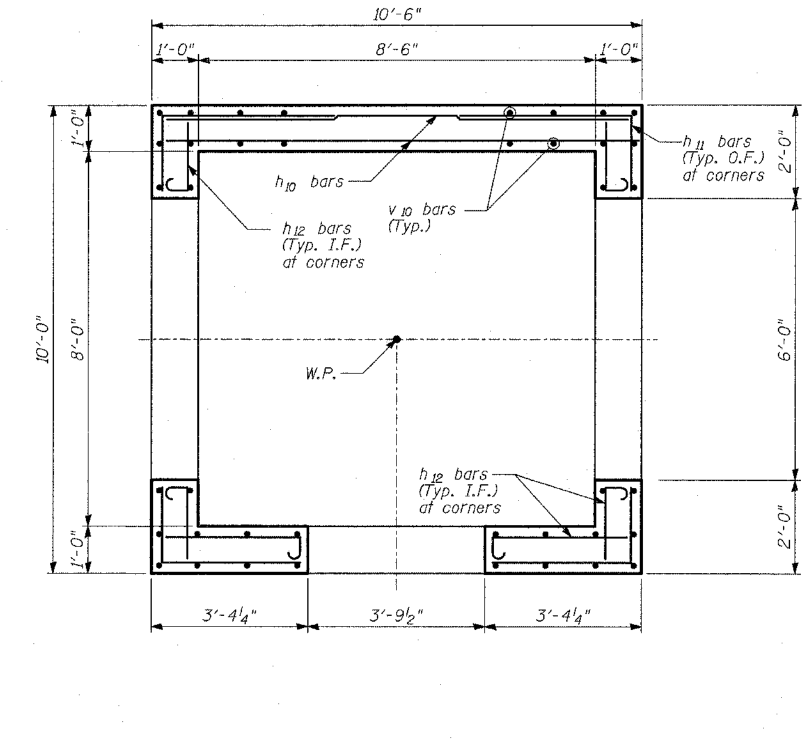
• (1516.1, 1717 & 1818) R-8 62694



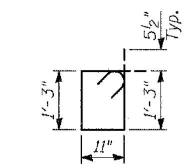
ROOF SLAB PLAN



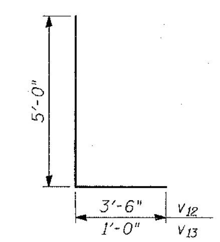
SECTIONAL PLAN F-F



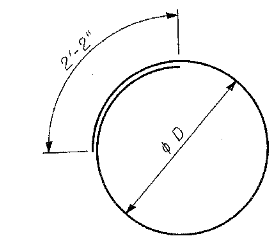
SECTIONAL PLAN G-G



BAR s_{12}

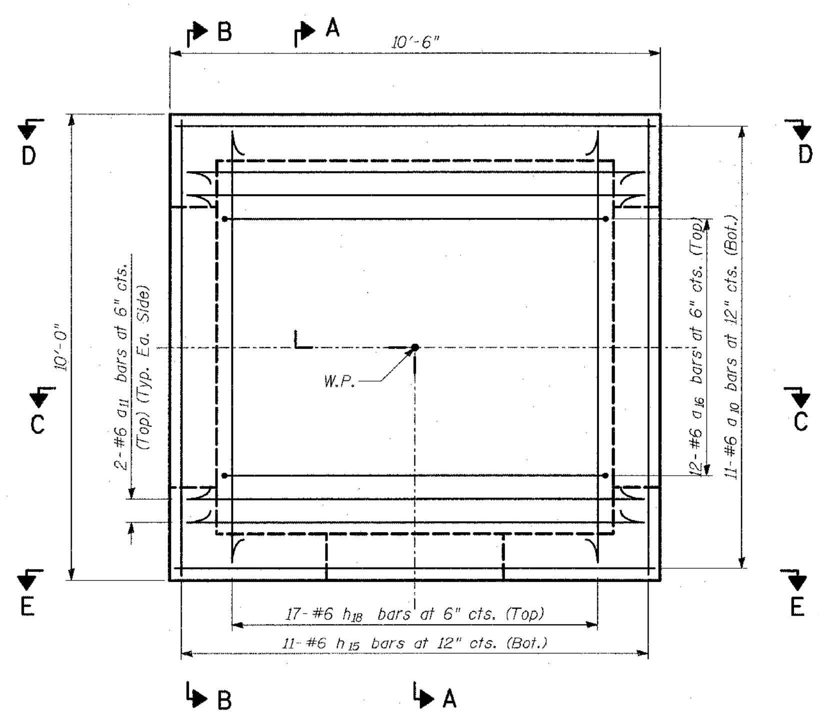


BARS v_{12} & v_{13}

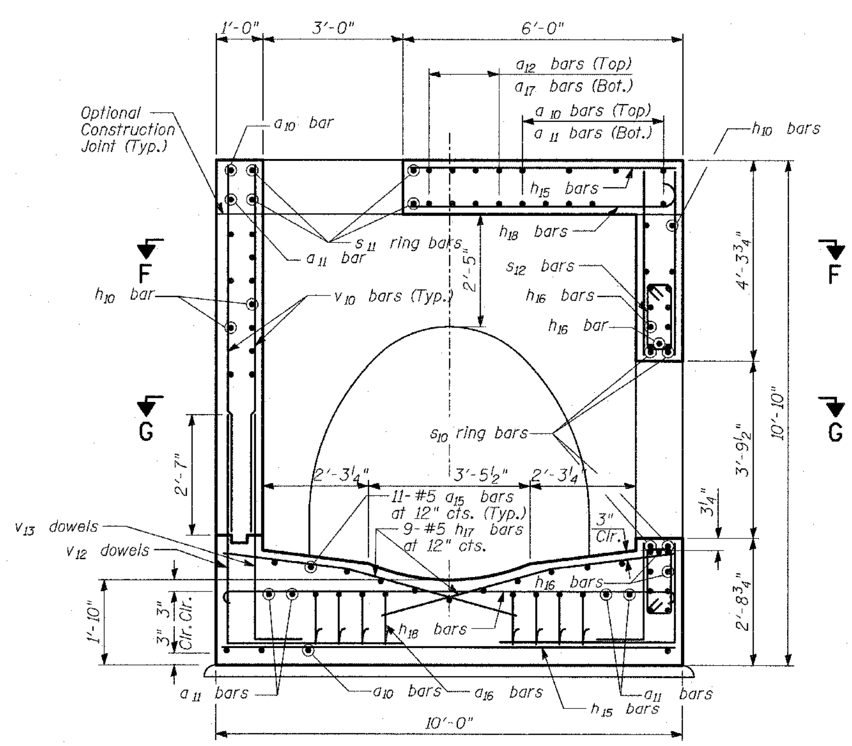


BARS s_{10} & s_{11}

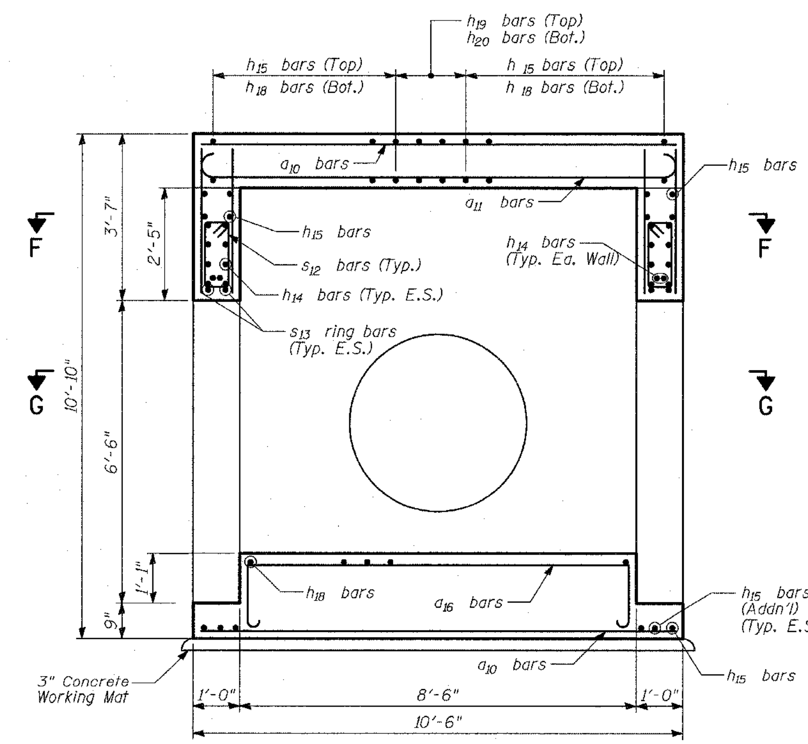
Bar	ϕ D
s_{10}	4'-1"
s_{11}	3'-4"



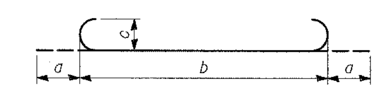
BOTTOM SLAB PLAN



SECTION A-A



SECTION C-C



BARS a_{11}, a_{17}, h_{18} & h_{20}

Bars	a	b	c
a_{11}	8"	10'-2"	6"
a_{17}	11"	10'-2"	8"
h_{18}	8"	9'-8"	6"
h_{20}	11"	9'-8"	8"

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength fc' = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 3 of 3.

* - Cut bars to fit in field.
E.F. - denotes Each Face
E.S. - denotes Each Side
I.F. - denotes Inside Face
O.F. - denotes Outside Face

TYLIN INTERNATIONAL

SHEET 2 OF 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 3
DETAILS 1

S.N.
SCALE:
DATE: MARCH 18, 2005

DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

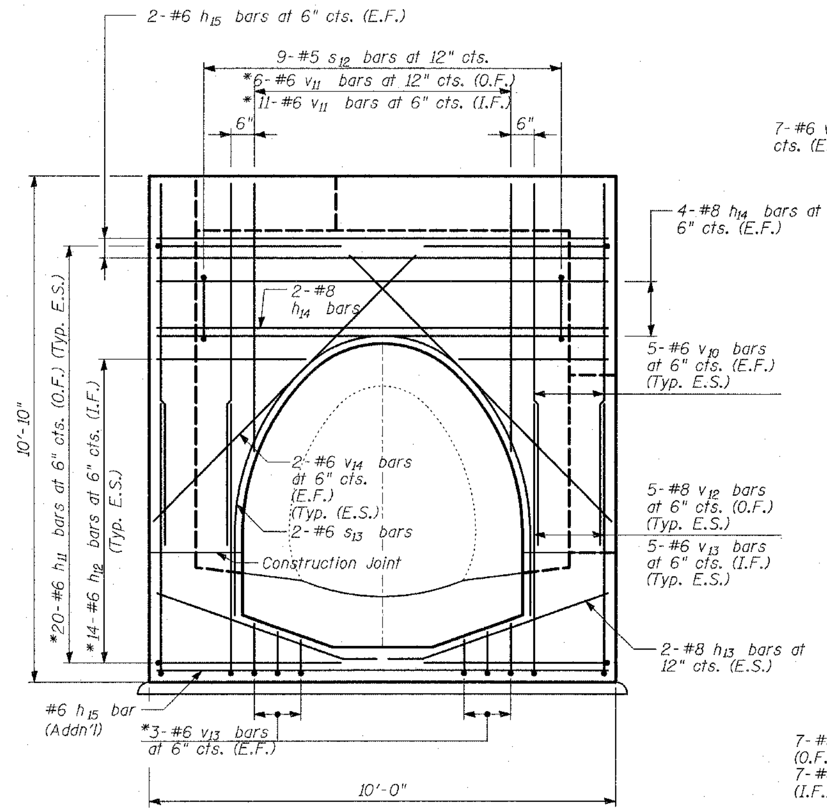
03/27/2005 03:24:31 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	247

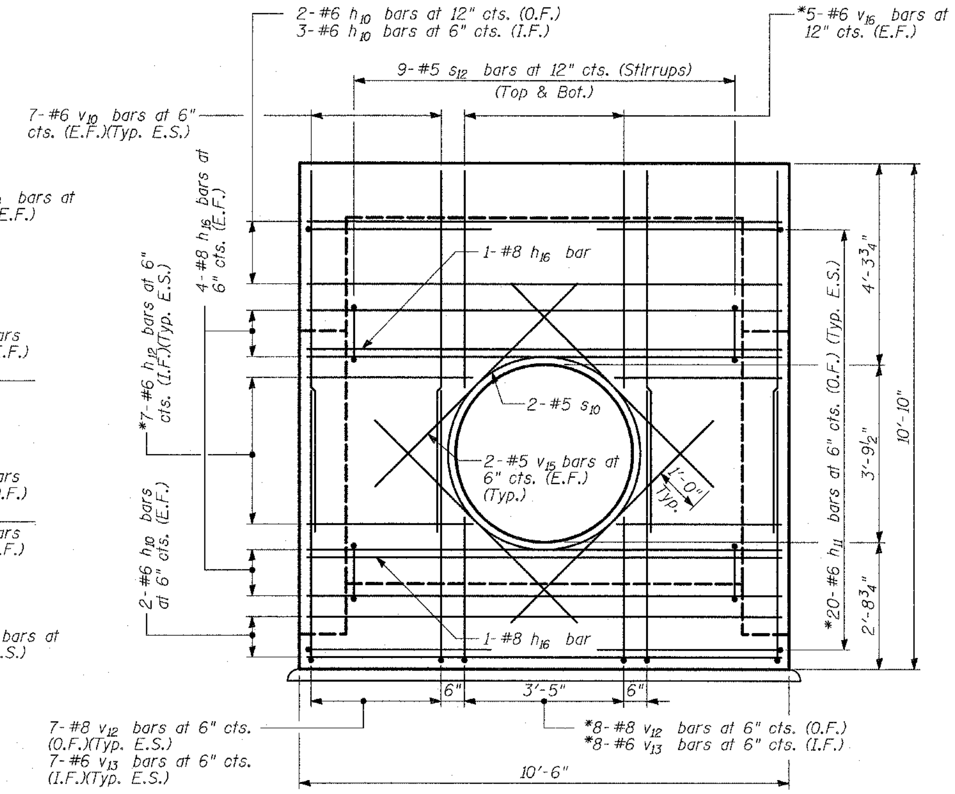
STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

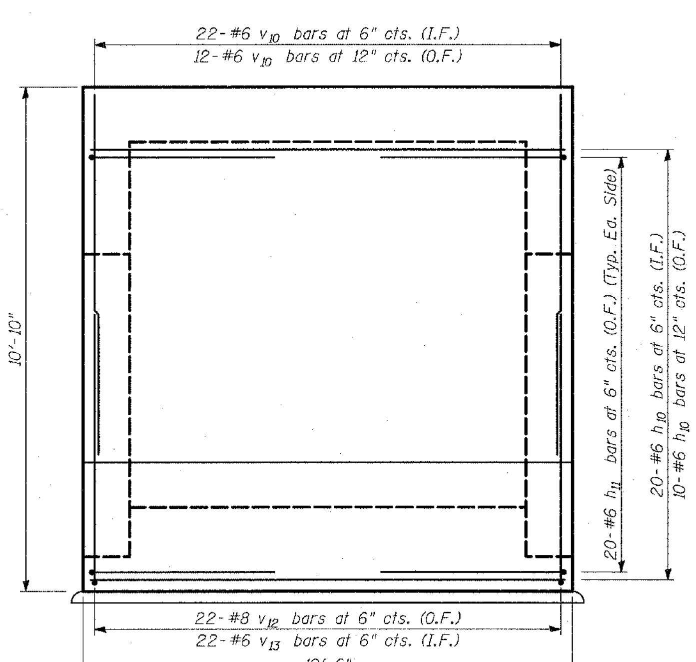
* (1516.1, 1717 & 1818) R-8 62694



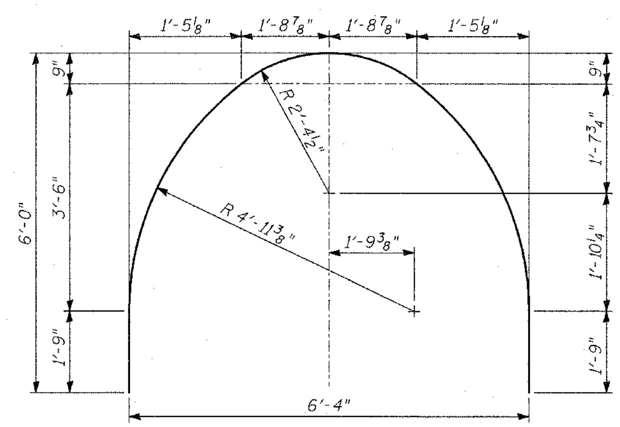
SECTION B-B
(Opposite Wall Typical)



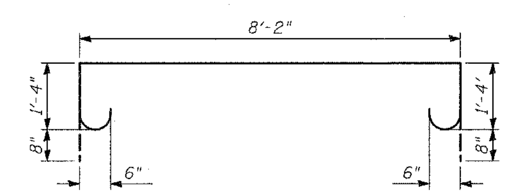
SECTION E-E



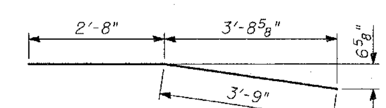
SECTION D-D



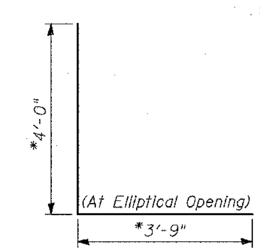
BAR s_{13}



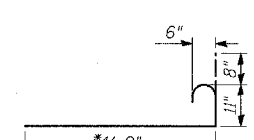
BAR a_{16}



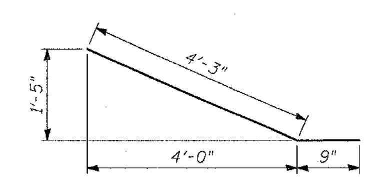
BAR h_{17}



BAR h_{11}



BAR h_{12}



BAR h_{13}

BILL OF MATERIAL
JUNCTION CHAMBER 3

Bar	No.	Size	Length	Shape
a_{10}	21	#6	10'-2"	
a_{11}	20	#6	11'-6"	
a_{12}	4	#8	10'-2"	
a_{13}	12	#5	5'-4"	
a_{14}	4	#5	2'-10"	
a_{15}	11	#5	8'-2"	
a_{16}	12	#6	12'-2"	
a_{17}	4	#8	12'-0"	
h_{10}	39	#6	10'-2"	
h_{11}	80	#6	7'-9"	
h_{12}	70	#6	5'-7"	
h_{13}	8	#8	5'-0"	
h_{14}	20	#8	9'-8"	
h_{15}	31	#6	9'-8"	
h_{16}	18	#8	10'-2"	
h_{17}	18	#5	6'-5"	
h_{18}	34	#6	11'-0"	
h_{19}	4	#8	9'-8"	
h_{20}	4	#8	11'-6"	
v_{10}	102	#6	7'-10"	
v_{11}	34	#6	5'-10"	
v_{12}	64	#8	8'-6"	
v_{13}	88	#6	6'-0"	
v_{14}	16	#6	8'-0"	
v_{15}	16	#5	6'-8"	
v_{16}	10	#6	5'-0"	
s_{10}	2	#5	15'-0"	
s_{11}	2	#5	12'-8"	
s_{12}	36	#5	5'-3"	
s_{13}	4	#6	15'-2"	
Reinforcement Bars		Pound	10,350	
Concrete Structures		Cu. Yard	21	

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength fc' = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 2 of 3.
10. The Bill of Material is shown for reference only. See Sheet 1 of 3 for Pay Items.

* Cut bars to fit in field.
E.F. - denotes Each Face
E.S. - denotes Each Side
I.F. - denotes Inside Face
O.F. - denotes Outside Face

TYLIN INTERNATIONAL

SHEET 3 OF 3

REVISIONS NAME	DATE

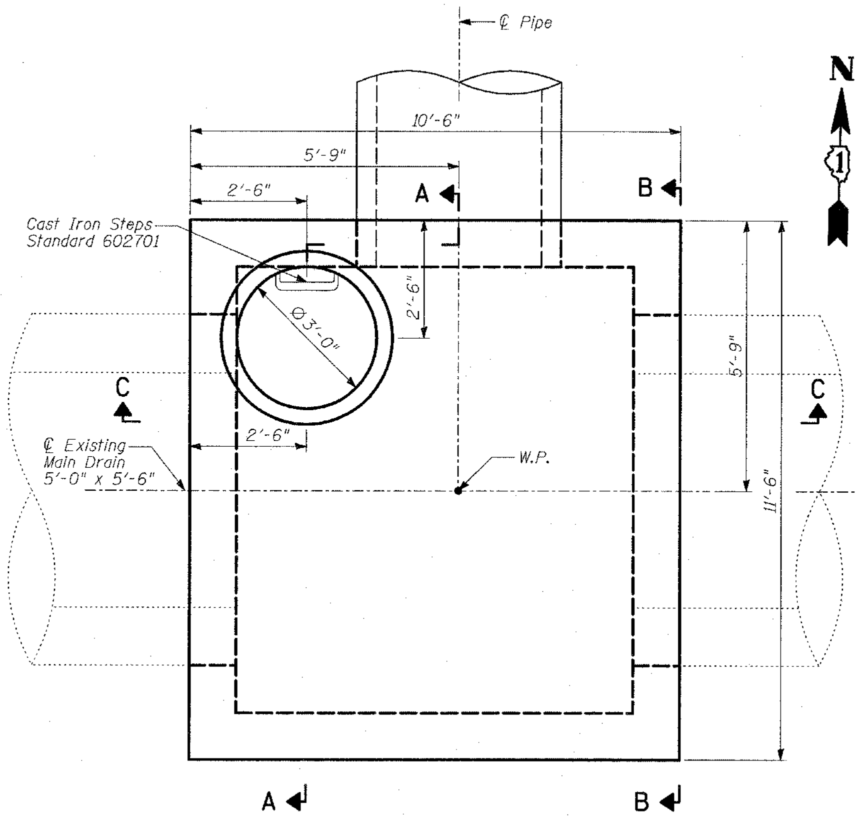
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 3
DETAILS 2

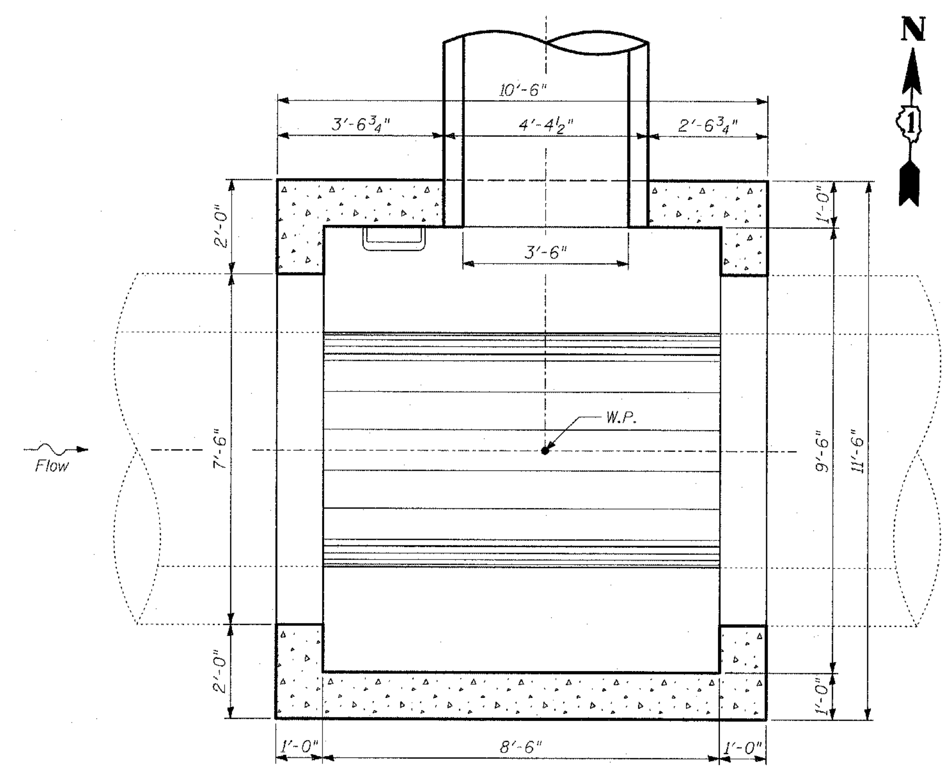
S.N.:
SCALE:
DATE: MARCH 18, 2005

DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

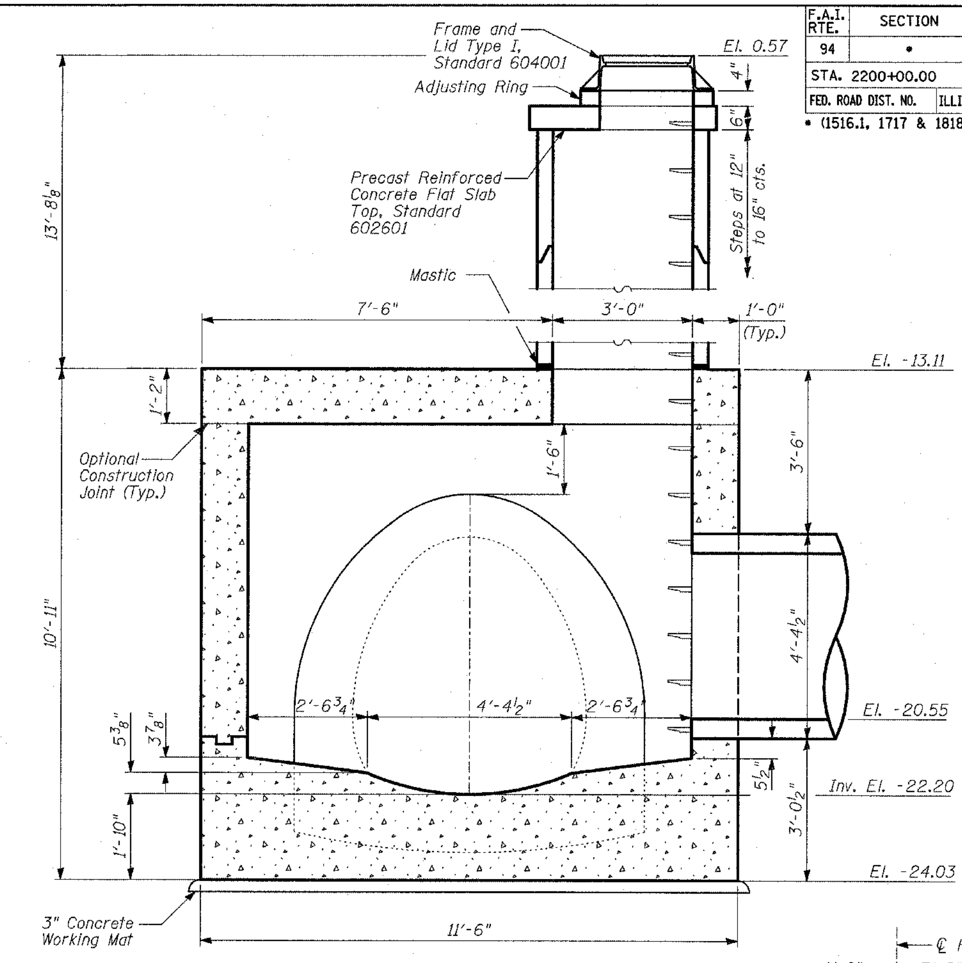
03/27/2005 03:24:32 PM



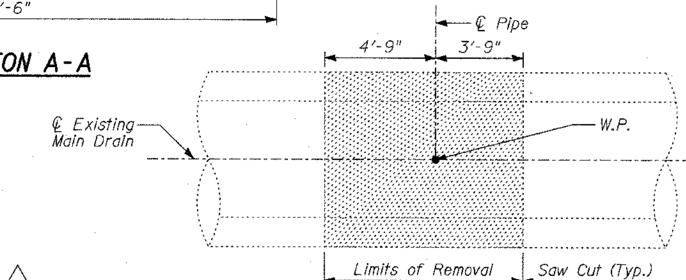
PLAN



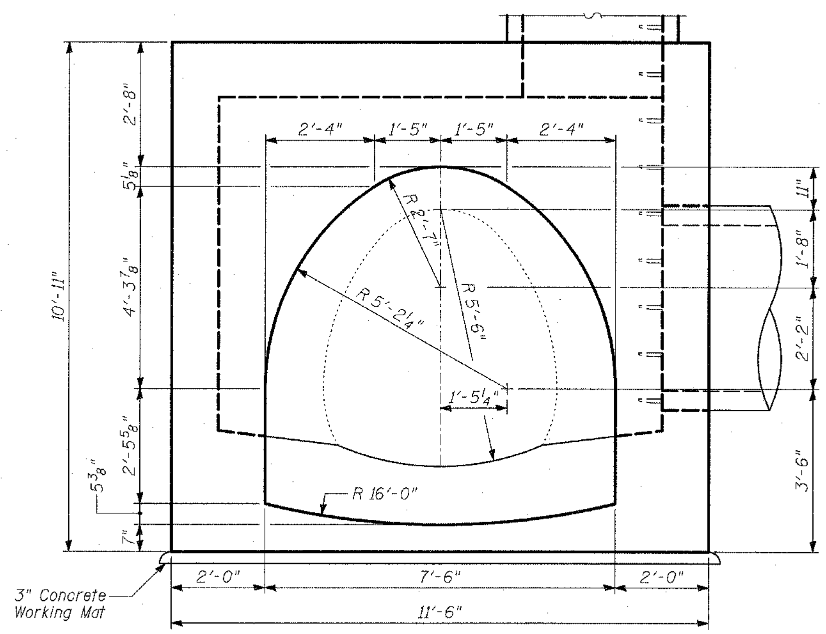
SECTIONAL PLAN



SECTION A-A

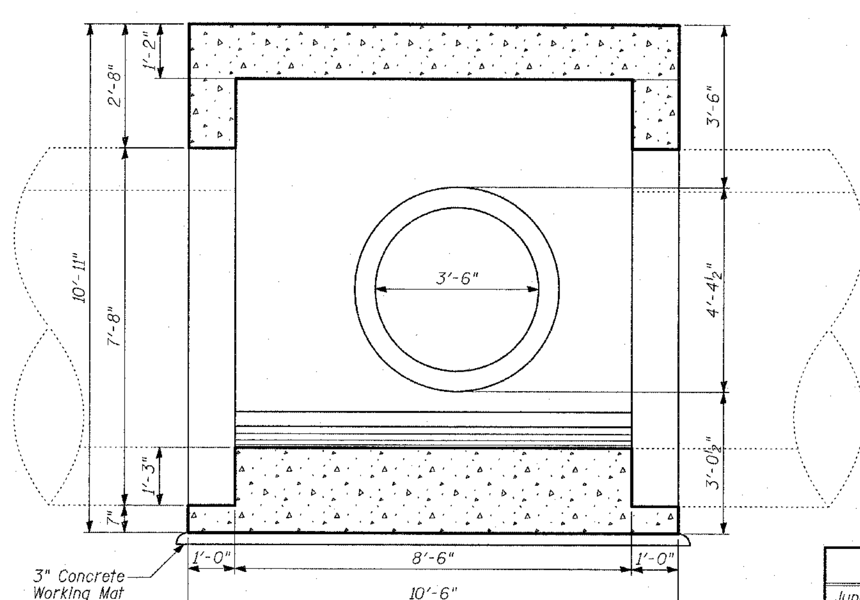


REMOVAL PLAN

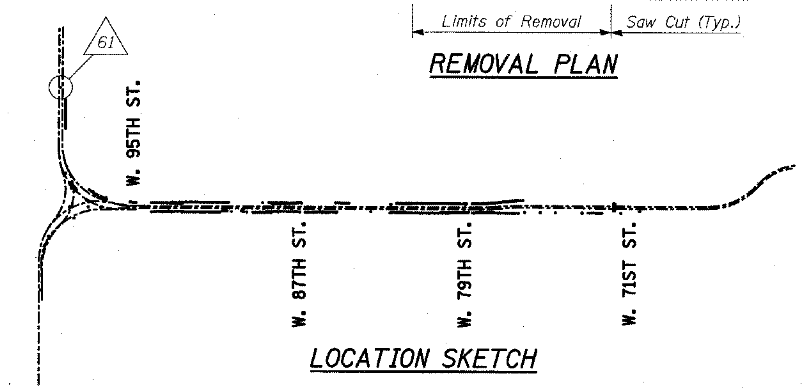


ELEVATION VIEW B-B

(Opposite Wall Typical)



SECTION C-C



LOCATION SKETCH

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Junction Chamber No. 61	EACH	1
Braced Excavation	CU YD	205
Porous Granular Embankment	CU YD	156

GENERAL NOTES:

1. Alternate materials for the junction chamber top slab may be cast-in-place concrete or precast reinforced concrete.
2. The Contractor shall verify the location of the main drain before submitting the braced excavation drawings.
3. Excavation shall be performed simultaneously on each side of the existing Main Drain, followed by simultaneous backfilling around the junction chamber.
4. Retention systems placed within ten (10) feet of a water main must remain in place permanently.
5. All pipe openings are based on wall C ASTM C76, coordinate openings with pipe supplier.
6. Cast iron steps shall be gray iron conforming to the requirements of Article 1006.14 of the Standard Specifications.
7. See Standard 602701 for details of cast iron steps.
8. For additional information, see Standard Specifications.
9. For reinforcement details, see Sheets 2 and 3 of 3.
10. For additional details, see Drainage Schedules.
11. The maximum width of excavation is the width of the junction chamber plus 4 feet, and the maximum length is the length of the junction chamber plus 4 feet. Excavation outside the maximum dimensions specified will not be measured for payment.
12. The design of the braced excavation is the responsibility of the Contractor. The Contractor shall submit drawings and design for the braced excavation to the Engineer for approval. The braced excavation design and drawings shall be signed and sealed by an Illinois Licensed Structural Engineer, submitted and approved prior to the start of any work. The Engineer's approval shall not relieve the Contractor from the sole responsibility of the structural integrity of the braced excavation system.
13. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

STATE OF ILLINOIS — PHILLIP D. FREY — 081-004826 — CHICAGO, ILLINOIS — LICENSED STRUCTURAL ENGINEER

Signed Phillip D. Frey
Phillip D. Frey, S.E. Il. Lic. No. 081-004826 Expires 11-30-2006.
For drawings 1 thru 3
Date 3/18/05

SHEET 1 OF 3

T·Y·LIN INTERNATIONAL

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 61
GENERAL PLAN AND ELEVATION
STA 2029+66.88 OFFSET 97.40 RT

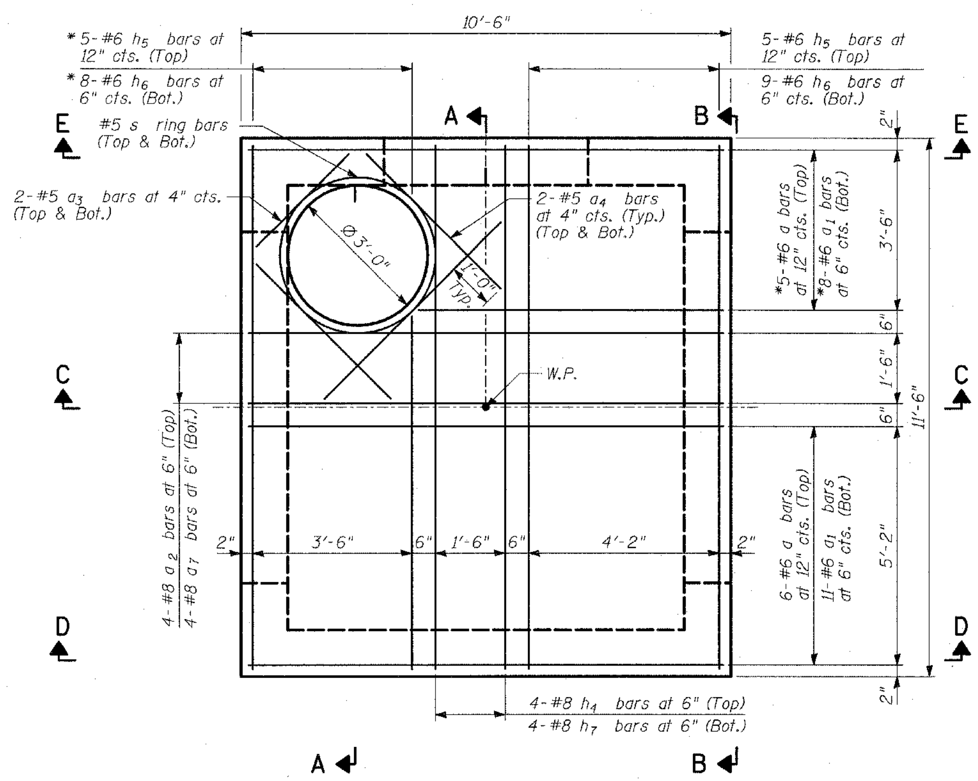
S.N.
SCALE:
DATE: MARCH 18, 2005
DESIGNED BY: TD, DJR
DRAWN BY: DJR
CHECKED BY: MI, TD

03/27/2005 03:24:32 PM

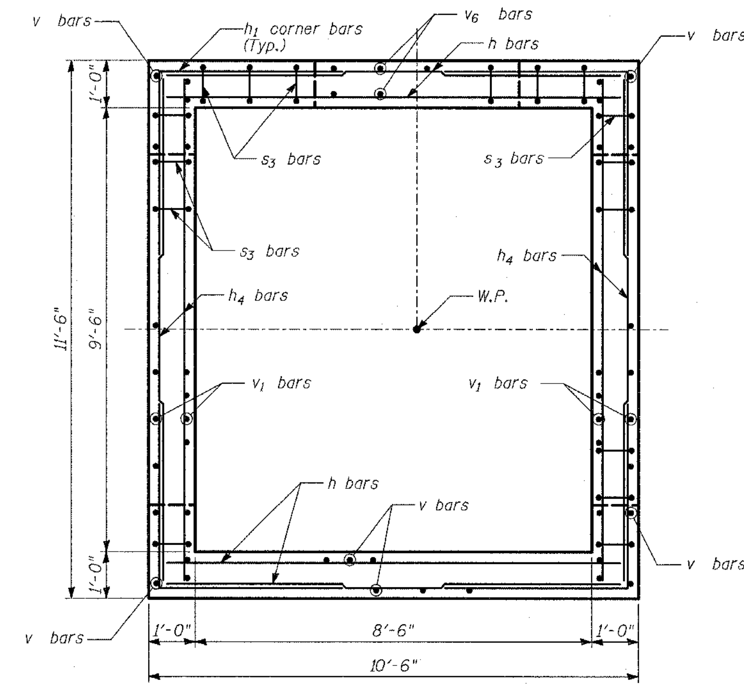
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	249
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

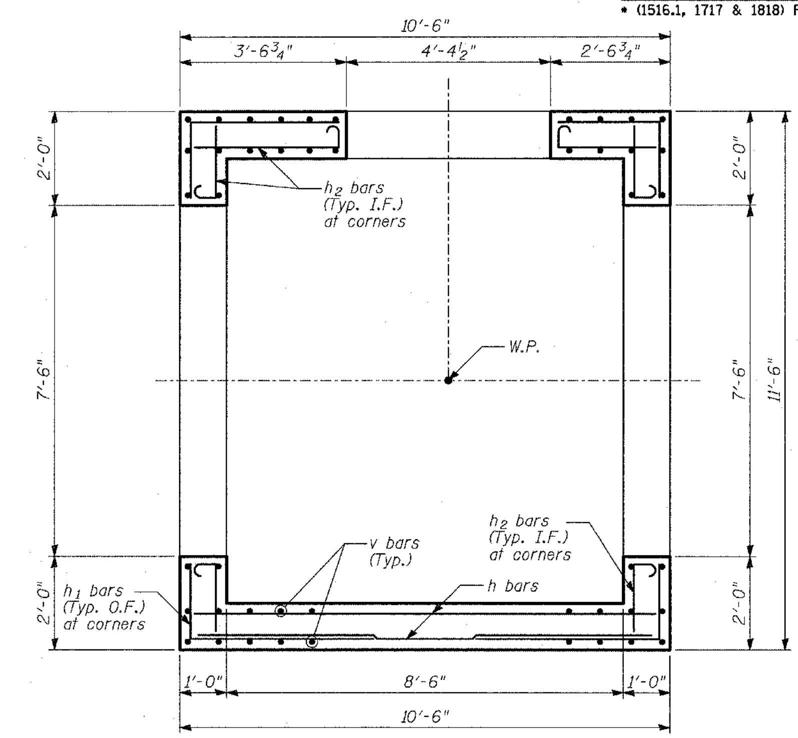
62694



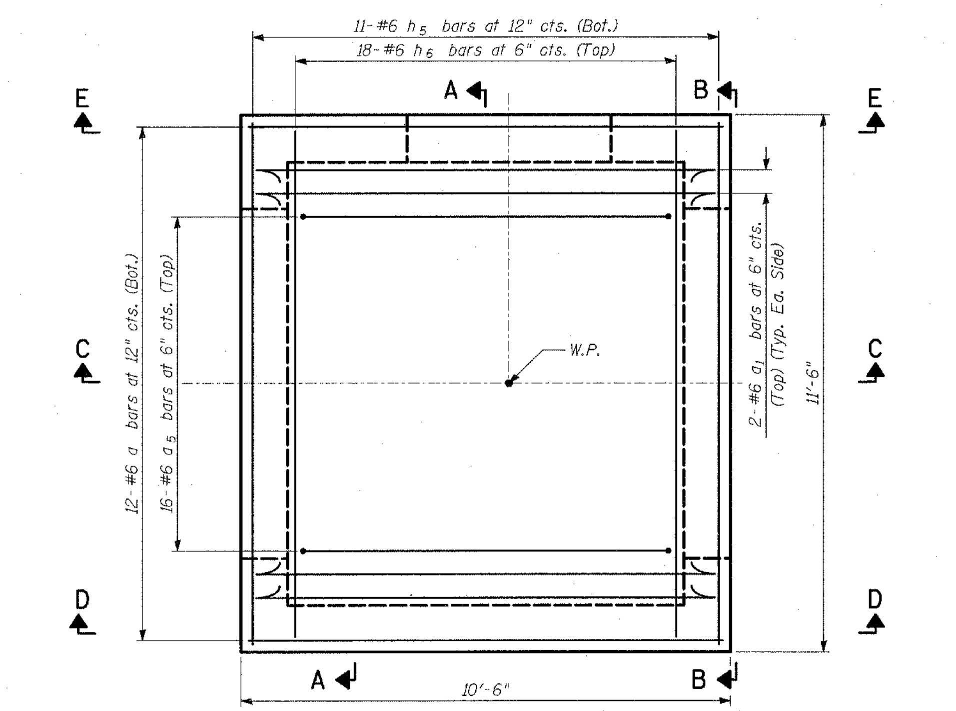
ROOF SLAB PLAN



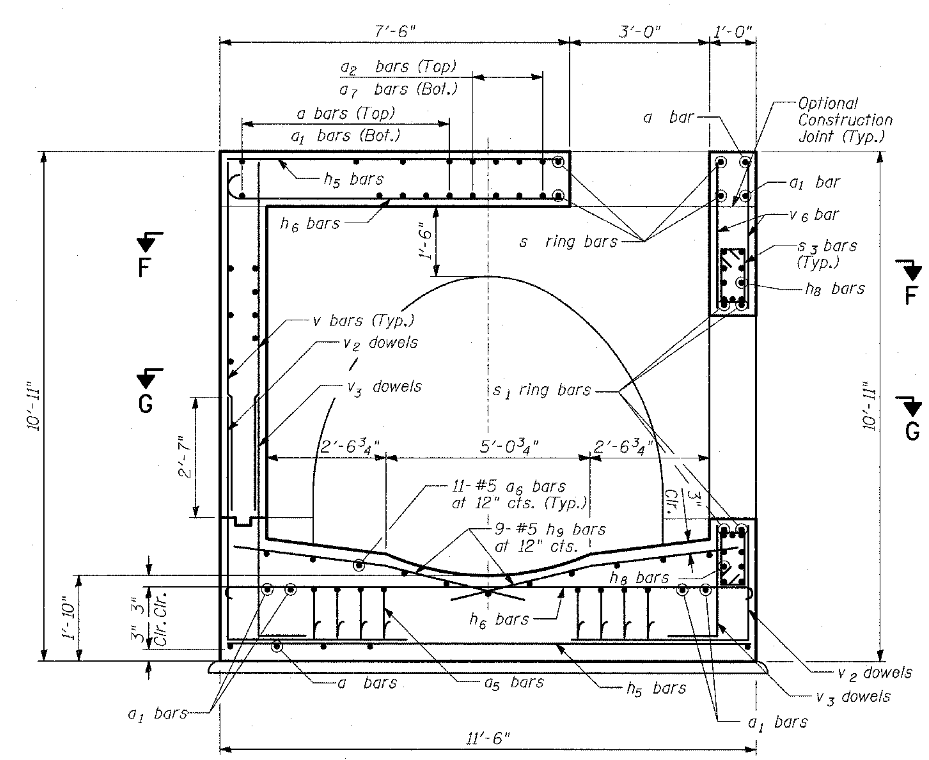
SECTIONAL PLAN F-F



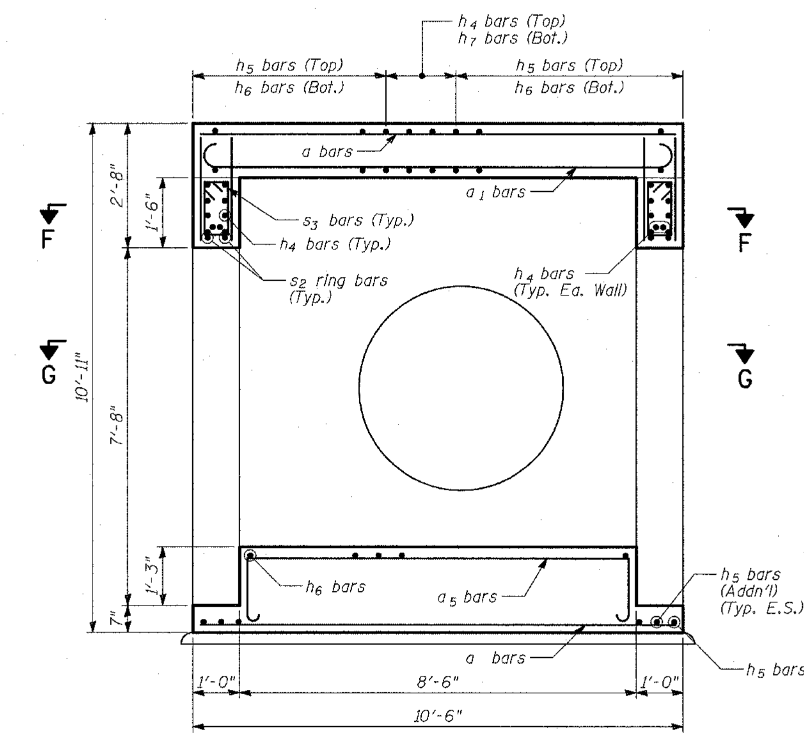
SECTIONAL PLAN G-G



BOTTOM SLAB PLAN



SECTION A-A



SECTION C-C

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength f'c = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 3 of 3.

* Cut bars to fit in field.
E.F. - denotes Each Face
E.S. - denotes Each Side
I.F. - denotes Inside Face
O.F. - denotes Outside Face

TYLIN INTERNATIONAL

SHEET 2 OF 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 61
DETAILS 1

S.N.
SCALE:
DATE: MARCH 18, 2005

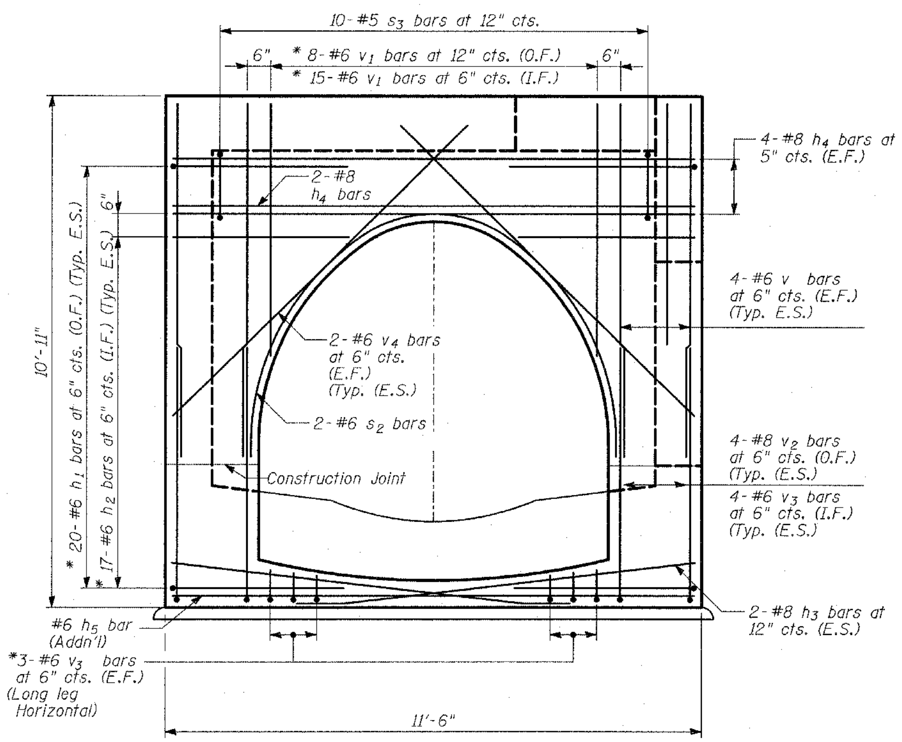
DESIGNED BY: TD, DJR
DRAWN BY: DJR
CHECKED BY: MI, TD

03/27/2005 03:24:33 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	250
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

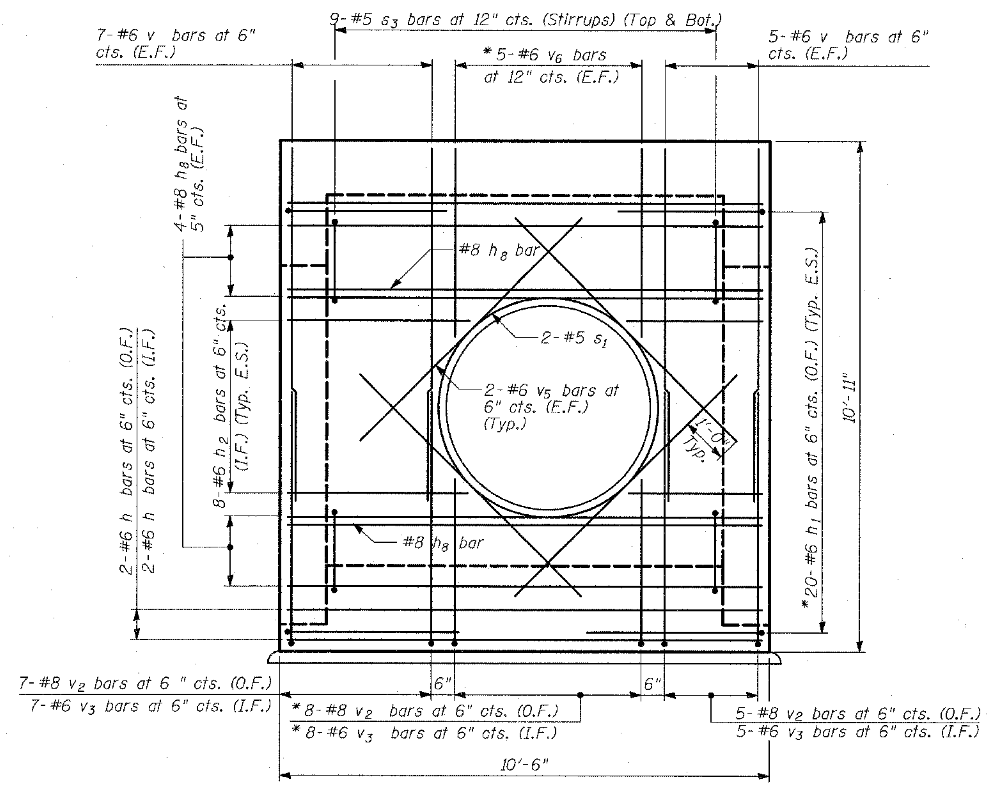
* (1516.1, 1717 & 1818) R-8

62694

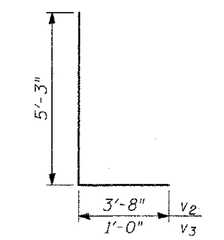


SECTION B-B

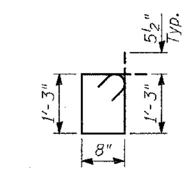
(Opposite Wall Typical)



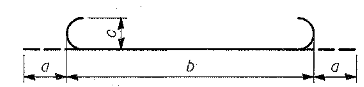
SECTION E-E



BARS v_2 & v_3

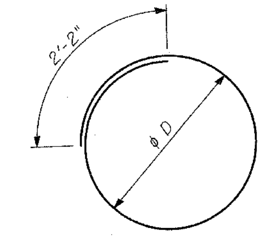


BAR s_3



BARS a_1 , a_7 , h_6 , h_7

Bar	a	b	c
a_1	8"	10'-2"	6"
a_7	11"	10'-2"	8"
h_6	8"	11'-2"	6"
h_7	11"	11'-2"	8"



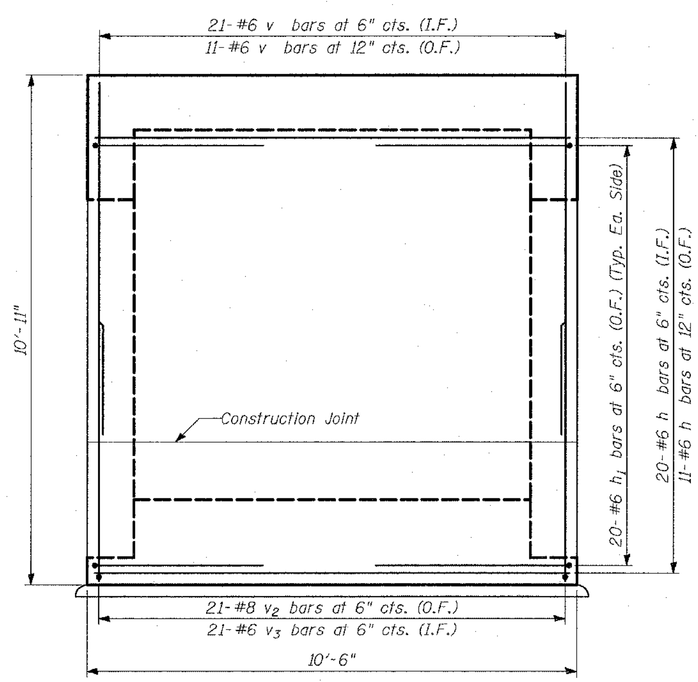
BARS s & s_1

Bar	ϕ D
s	3'-4"
s_1	4'-8"

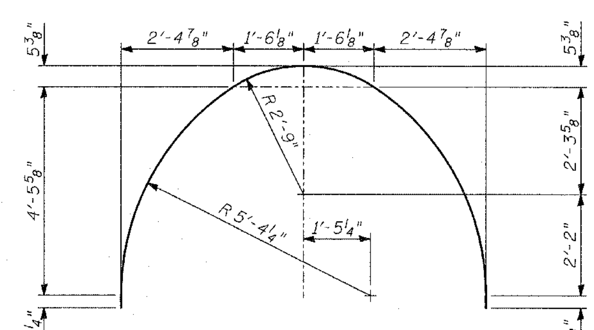
BILL OF MATERIAL

JUNCTION CHAMBER 5

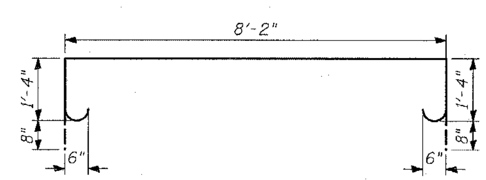
Bar	No.	Size	Length	Shape
a	23	#6	10'-2"	
a_1	23	#6	11'-6"	
a_2	4	#8	10'-2"	
a_3	4	#5	2'-10"	
a_4	12	#5	5'-4"	
a_5	16	#6	12'-2"	
a_6	11	#5	8'-2"	
a_7	4	#8	12'-0"	
h	35	#6	10'-2"	
h_1	80	#6	8'-1"	L
h_2	84	#6	5'-5"	
h_3	8	#8	8'-7"	
h_4	24	#8	11'-2"	
h_5	23	#6	11'-2"	
h_6	35	#6	12'-6"	
h_7	4	#8	13'-0"	
h_8	18	#8	10'-2"	
h_9	18	#5	6'-3"	
v	88	#6	7'-8"	
v_1	46	#6	5'-5"	
v_2	57	#8	8'-11"	L
v_3	81	#6	6'-3"	L
v_4	16	#6	8'-10"	
v_5	16	#6	6'-9"	
v_6	10	#6	4'-1"	
s	2	#5	12'-8"	
s_1	2	#5	16'-10"	
s_2	4	#6	14'-4"	
s_3	38	#5	4'-9"	
Reinforcement Bars			Pound	10,610
Concrete Structures			Cu. Yard	22



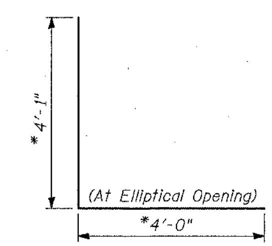
SECTION D-D



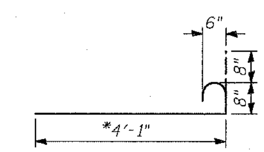
BAR s_2



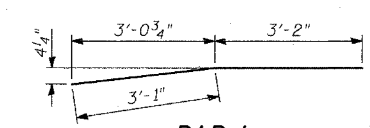
BAR a_5



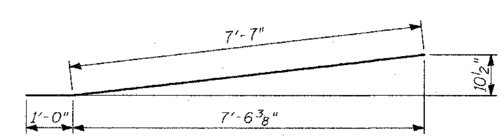
BAR h_1



BAR h_2



BAR h_9



BAR h_3

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength fc' = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 2 of 3.
10. The Bill of Material is shown for reference only. See Sheet 1 of 3 for Pay Items.

* Cut bars to fit in field.

E.F. - denotes Each Face

E.S. - denotes Each Side

I.F. - denotes Inside Face

O.F. - denotes Outside Face

TYLIN INTERNATIONAL

SHEET 3 OF 3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 61
DETAILS 2

S.N.

SCALE:

DATE: MARCH 18, 2005

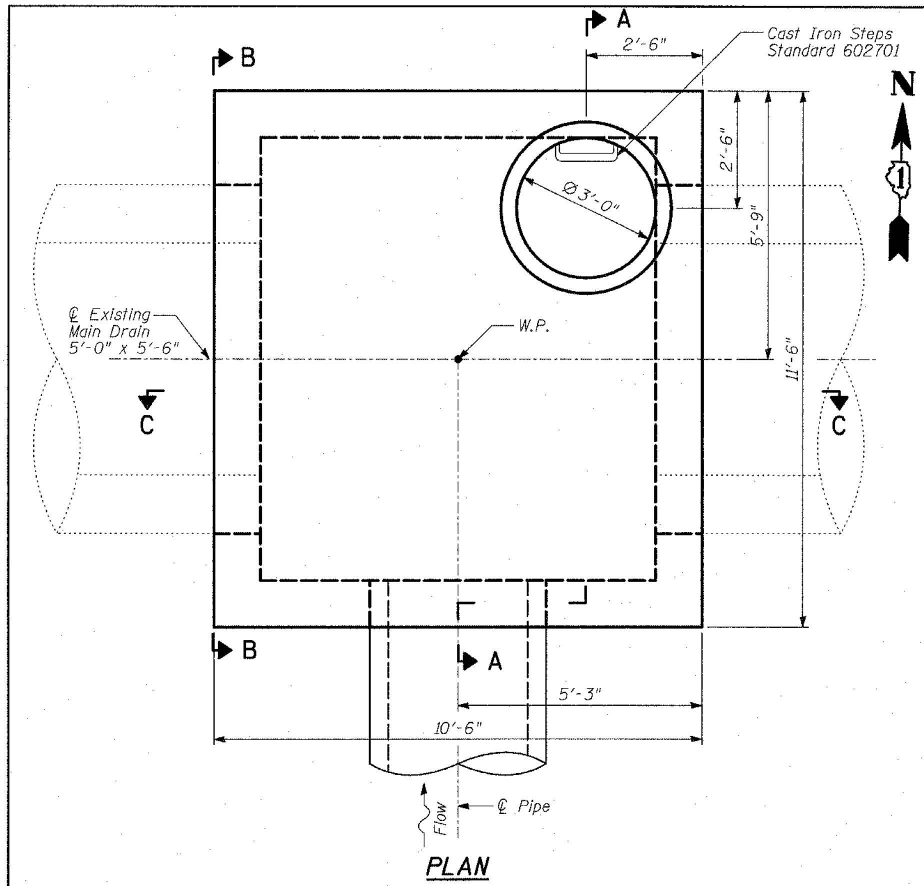
DESIGNED BY: TD, DJR

DRAWN BY: DJR

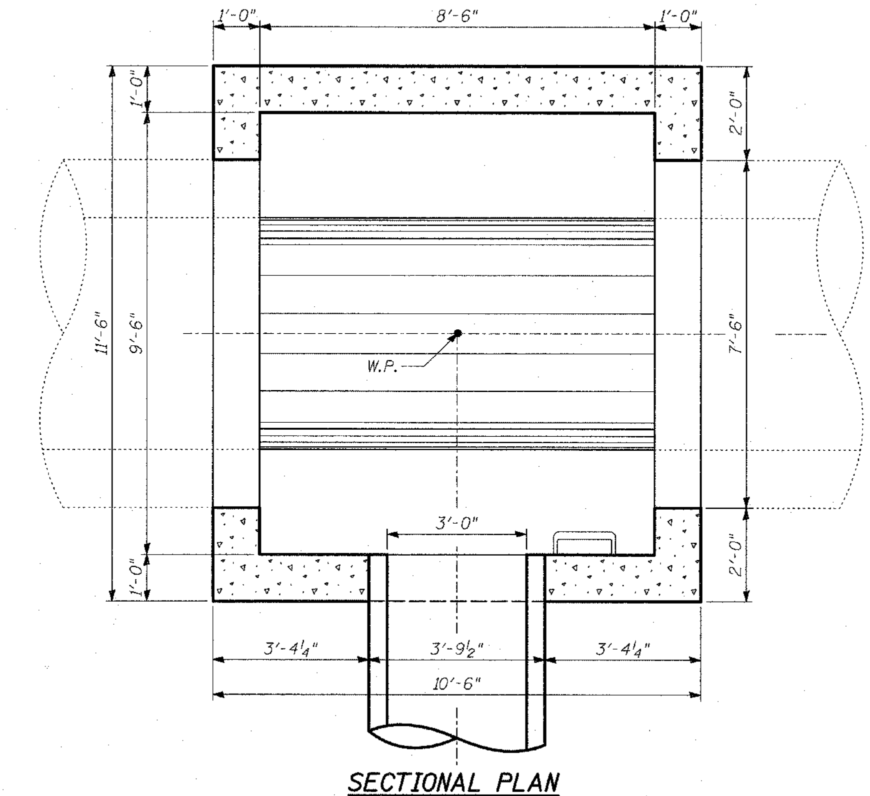
CHECKED BY: MI, TD

03/27/2005 03:24:33 PM

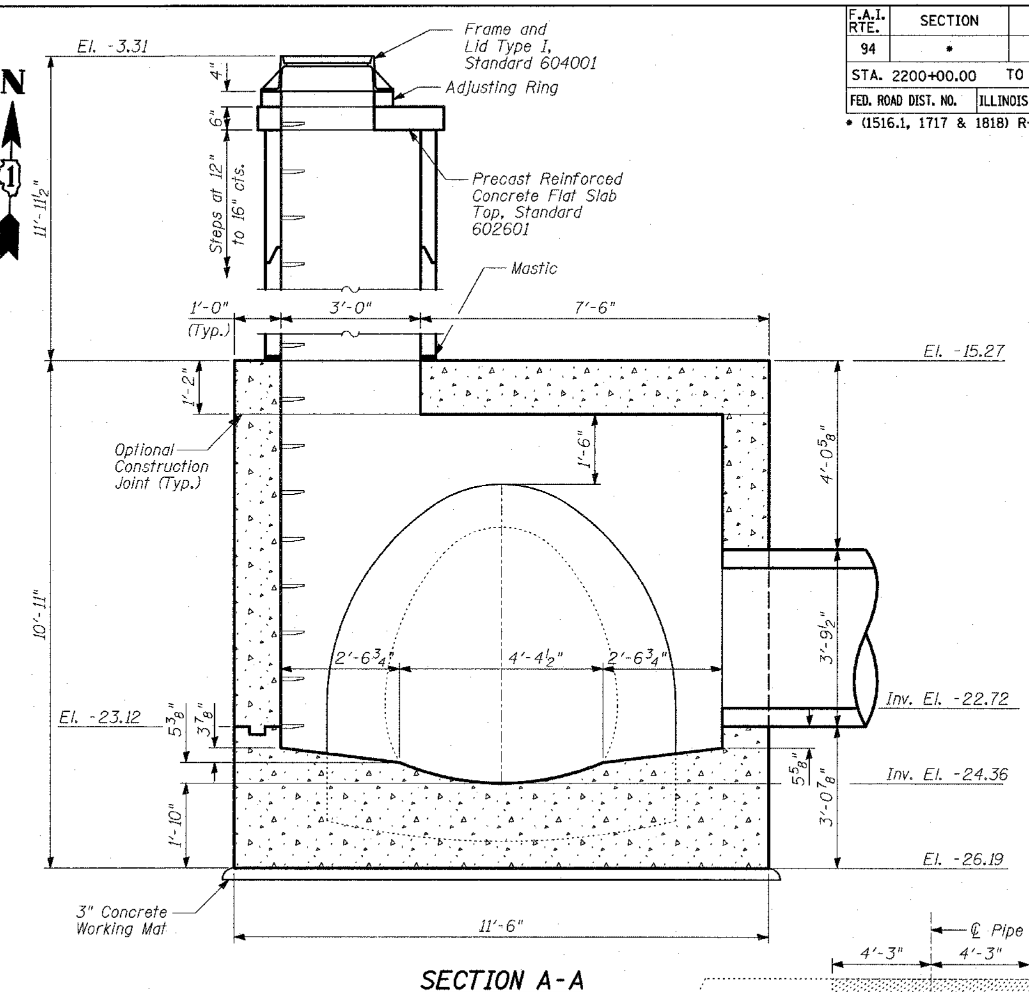
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	251
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694



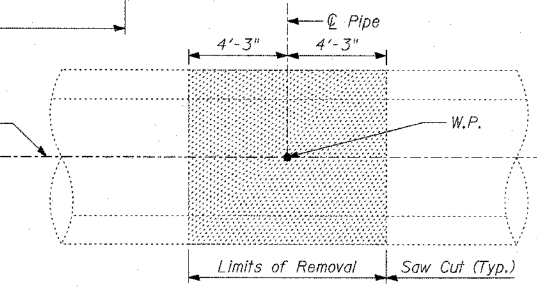
PLAN



SECTIONAL PLAN



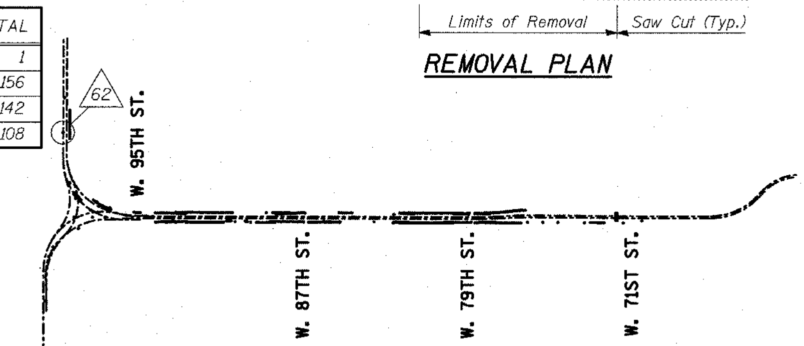
SECTION A-A



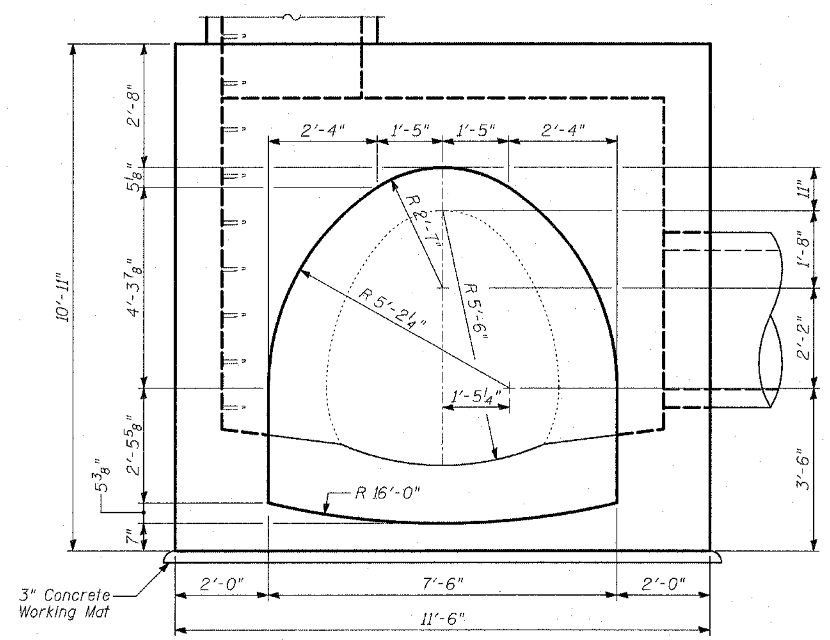
REMOVAL PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Junction Chamber No. 62	EACH	1
Braced Excavation	CU YD	156
Porous Granular Embankment	CU YD	142
Rock Excavation for Structures	CU YD	108

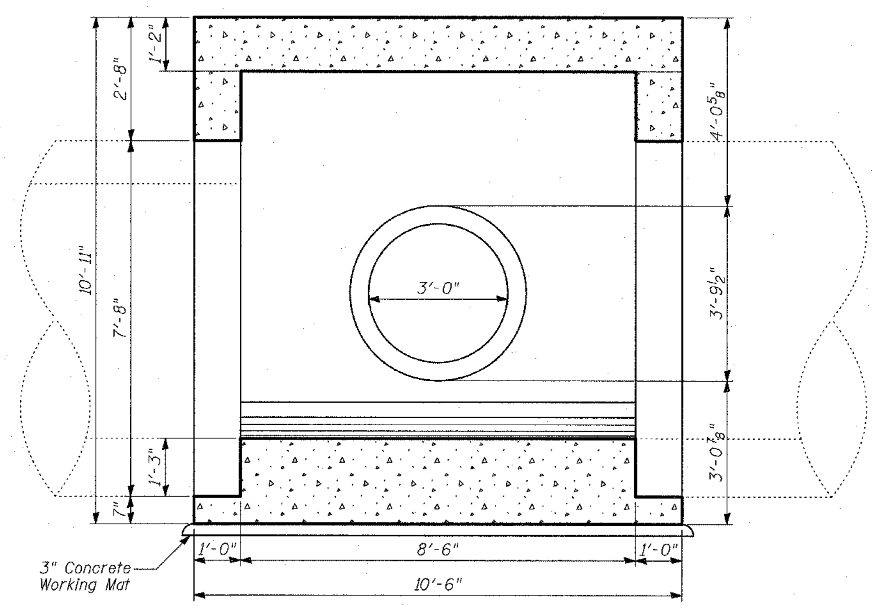


LOCATION SKETCH



ELEVATION VIEW B-B

(Opposite Wall Typical)



SECTION C-C

GENERAL NOTES:

1. Alternate materials for the junction chamber top slab may be cast-in-place concrete or precast reinforced concrete.
2. The Contractor shall verify the location of the main drain before submitting the braced excavation drawings.
3. Excavation shall be performed simultaneously on each side of the existing Main Drain, followed by simultaneous backfilling around the junction chamber.
4. Retention systems placed within ten (10) feet of a water main must remain in place permanently.
5. All pipe openings are based on wall C ASTM C76, coordinate openings with pipe supplier.
6. Cast iron steps shall be gray iron conforming to the requirements of Article 1006.14 of the Standard Specifications.
7. See Standard 602701 for details of cast iron steps.
8. For additional information, see Standard Specifications.
9. For reinforcement details, see Sheets 2 and 3 of 3.
10. For additional details, see Drainage Schedules.
11. The maximum width of excavation is the width of the junction chamber plus 4 feet, and the maximum length is the length of the junction chamber plus 4 feet. Excavation outside the maximum dimensions specified will not be measured for payment.
12. The design of the braced excavation is the responsibility of the Contractor. The Contractor shall submit drawings and design for the braced excavation to the Engineer for approval. The braced excavation design and drawings shall be signed and sealed by an Illinois Licensed Structural Engineer, submitted and approved prior to the start of any work. The Engineer's approval shall not relieve the Contractor from the sole responsibility of the structural integrity of the braced excavation system.
13. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

STATE OF ILLINOIS PHILLIP D. FREY 081-004826 CHICAGO, ILLINOIS LICENSED STRUCTURAL ENGINEER

Signed Phillip D. Frey

Phillip D. Frey, S.E. Il. Lic. No. 081-004826 Expires 11-30-2006

Date 3/18/05

For drawings 1 thru 3

SHEET 1 OF 3

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	05/06/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

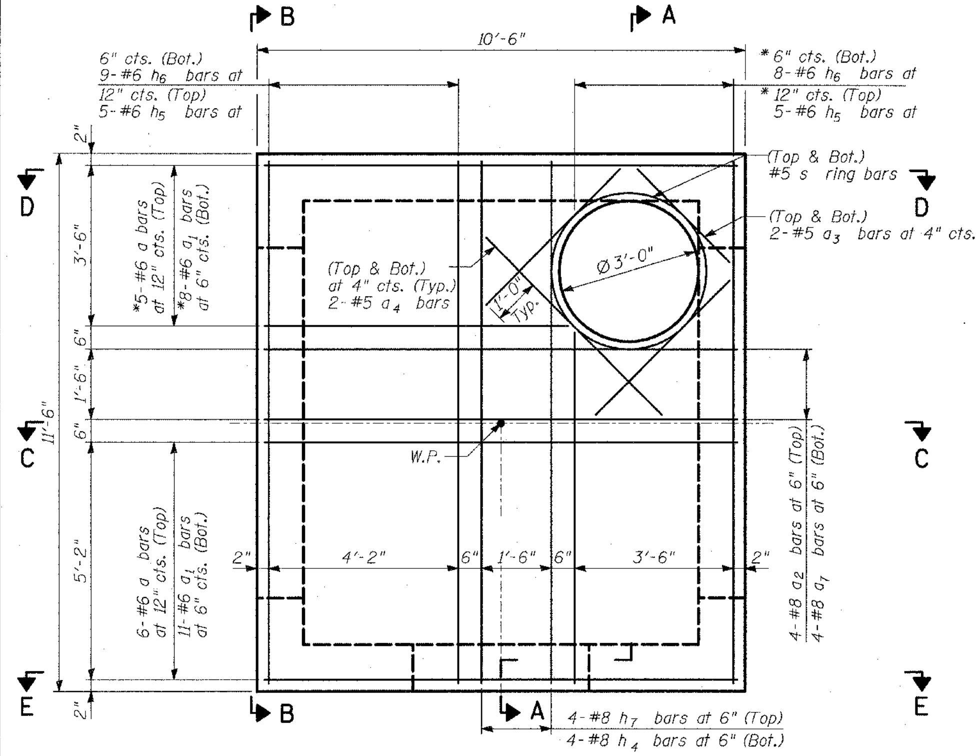
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 62
GENERAL PLAN AND ELEVATION
STA 8765+28.14 OFFSET 4.00 RT

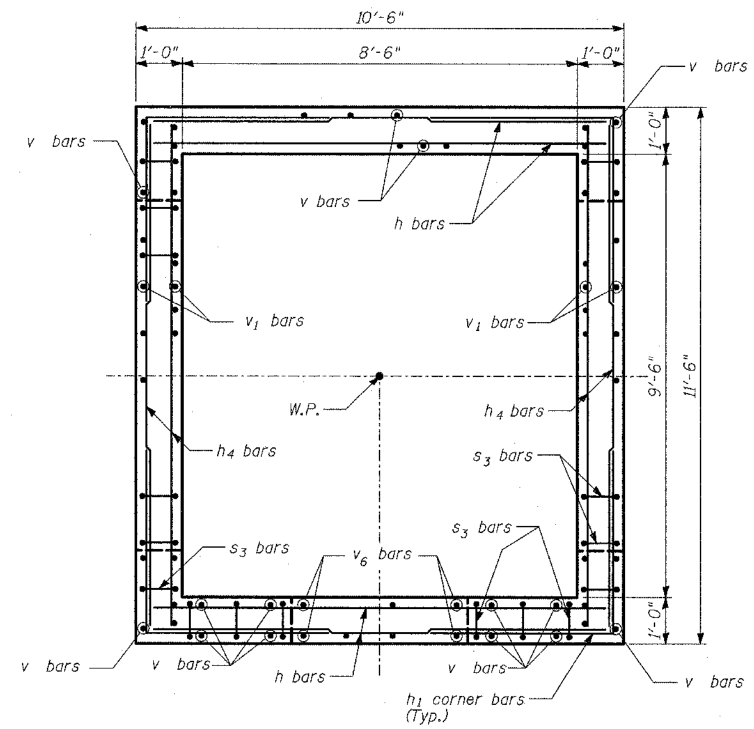
S.N.
SCALE:
DATE: MARCH 18, 2005
DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

05/03/2005 03:05:54 PM

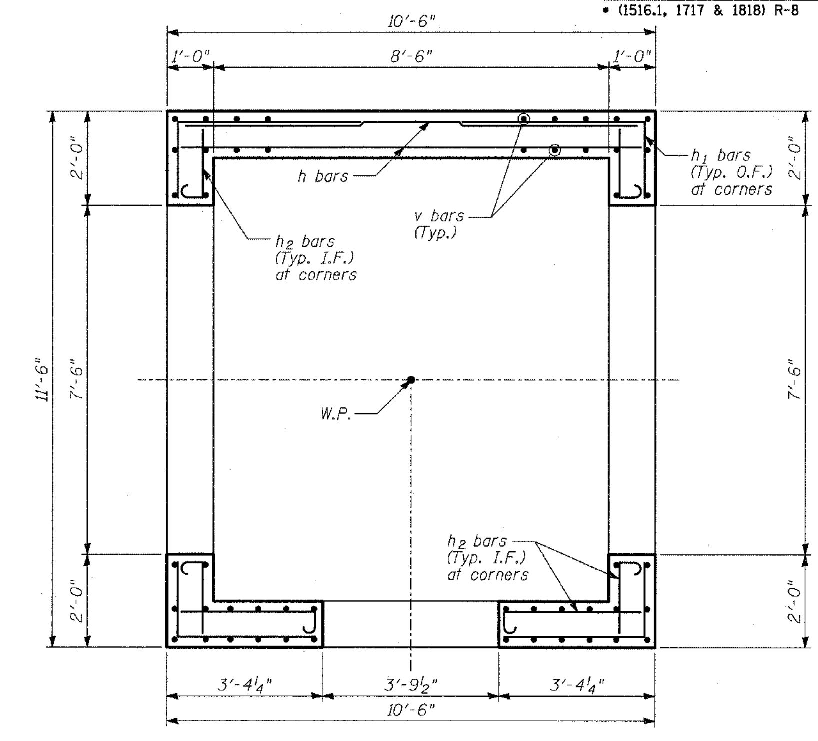
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	252
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694



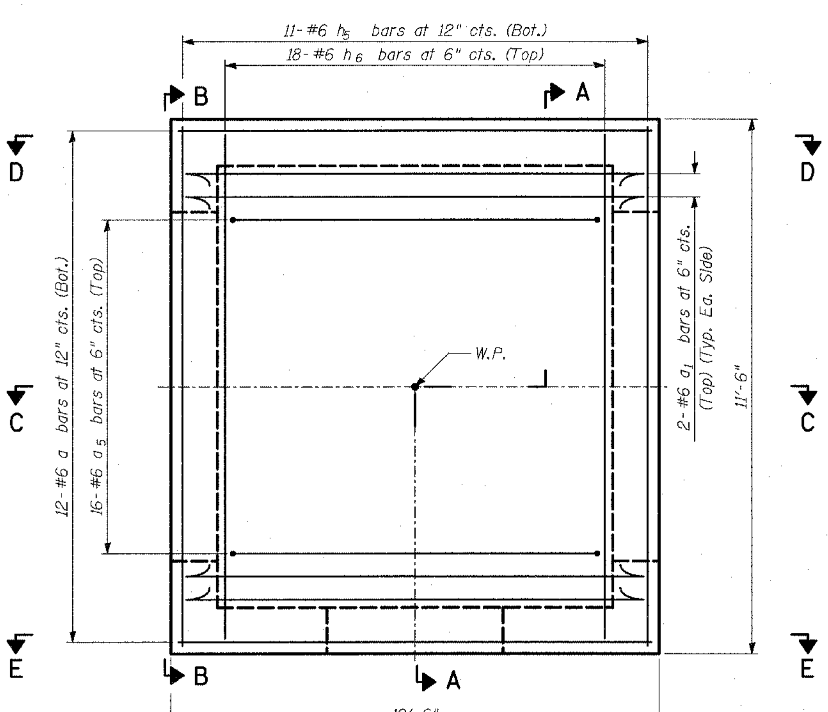
ROOF SLAB PLAN



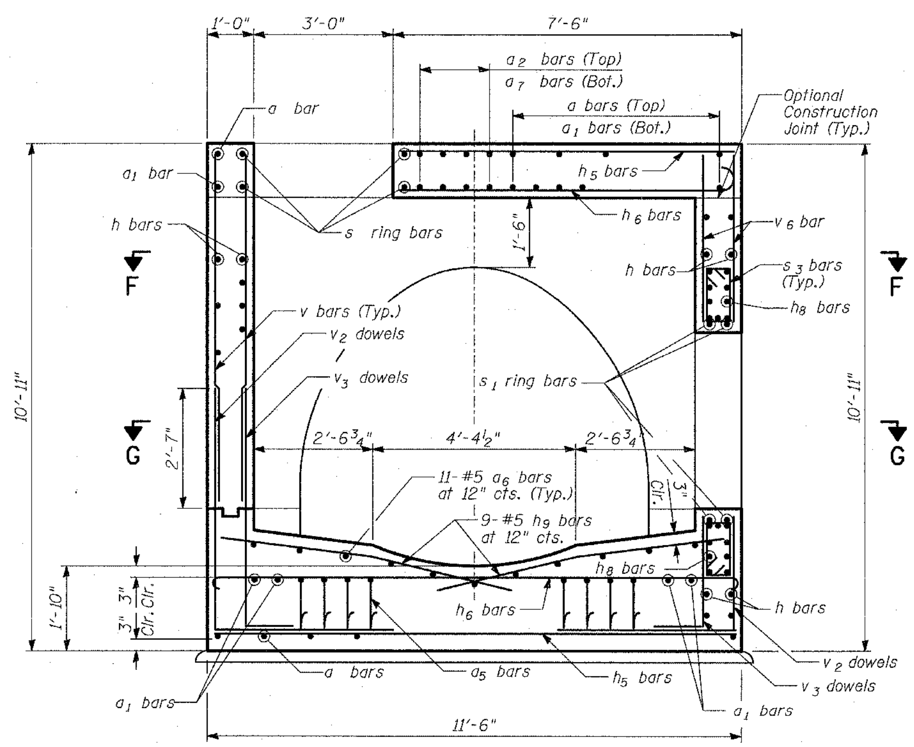
SECTIONAL PLAN F-F



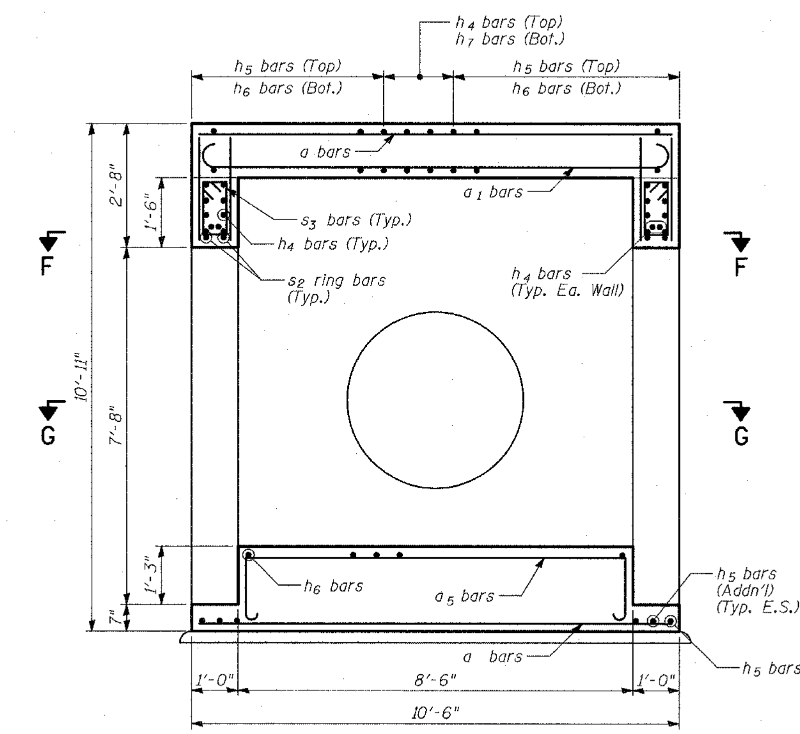
SECTIONAL PLAN G-G



BOTTOM SLAB PLAN



SECTION A-A



SECTION C-C

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength fc' = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 3 of 3.

* Cut bars to fit in field.
E.F. - denotes Each Face
E.S. - denotes Each Side
I.F. - denotes Inside Face
O.F. - denotes Outside Face

TY·LIN INTERNATIONAL

SHEET 2 OF 3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 62
DETAILS 1

S.N.
SCALE:
DATE: MARCH 18, 2005

DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

pw02375\struct\Cl\Chambers\dsf\aDRst023a_62.dgn 03/21/2005 03:24:35 PM

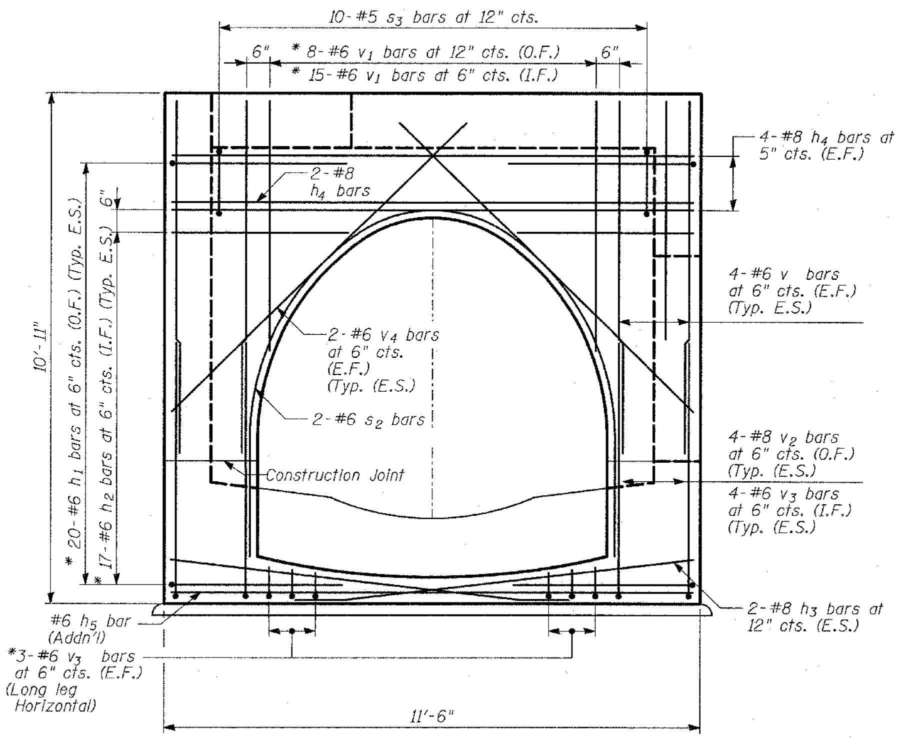
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	253

STA. 2200+00.00 TO STA. 2362+00.00

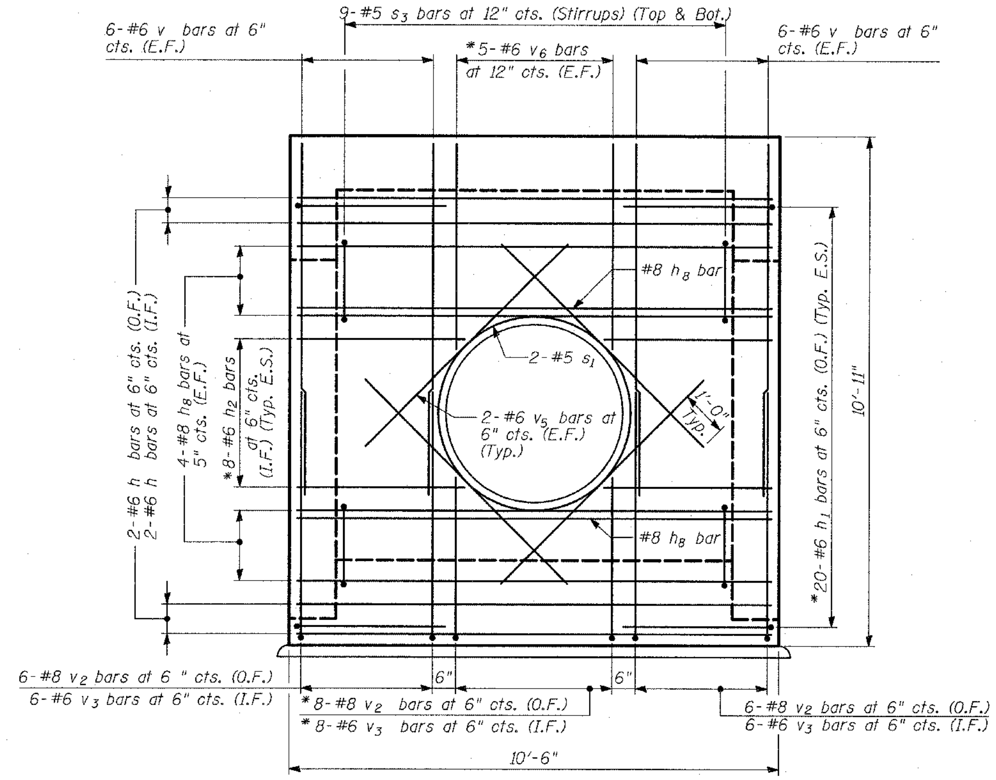
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8

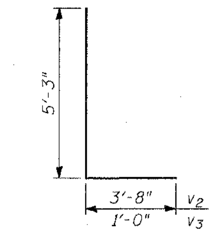
62694



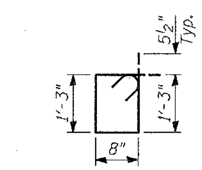
SECTION B-B
(Opposite Wall Typical)



SECTION E-E



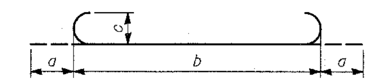
BARS v_2 & v_3



BAR s_3

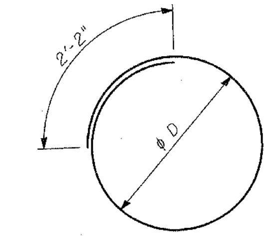
BILL OF MATERIAL
JUNCTION CHAMBER 5

Bar	No.	Size	Length	Shape
a	23	#6	10'-2"	
a_1	23	#6	11'-6"	
a_2	4	#8	10'-2"	
a_3	4	#5	2'-10"	
a_4	12	#5	5'-4"	
a_5	16	#6	12'-2"	
a_6	11	#5	8'-2"	
a_7	4	#8	12'-0"	
h	39	#6	10'-2"	
h_1	80	#6	8'-1"	L
h_2	84	#6	5'-5"	
h_3	8	#8	8'-7"	
h_4	24	#8	11'-2"	
h_5	23	#6	11'-2"	
h_6	35	#6	12'-6"	
h_7	4	#8	13'-0"	
h_8	18	#8	10'-2"	
h_9	18	#5	6'-3"	
v	88	#6	7'-7"	
v_1	46	#6	5'-5"	
v_2	57	#8	8'-11"	L
v_3	81	#6	6'-3"	L
v_4	16	#6	8'-10"	
v_5	16	#6	6'-2"	
v_6	10	#6	4'-5"	
s	2	#5	12'-8"	
s_1	2	#5	15'-0"	
s_2	4	#6	18'-7"	
s_3	38	#5	4'-9"	
Reinforcement Bars			Pound	10,670
Concrete Structures			Cu. Yard	23



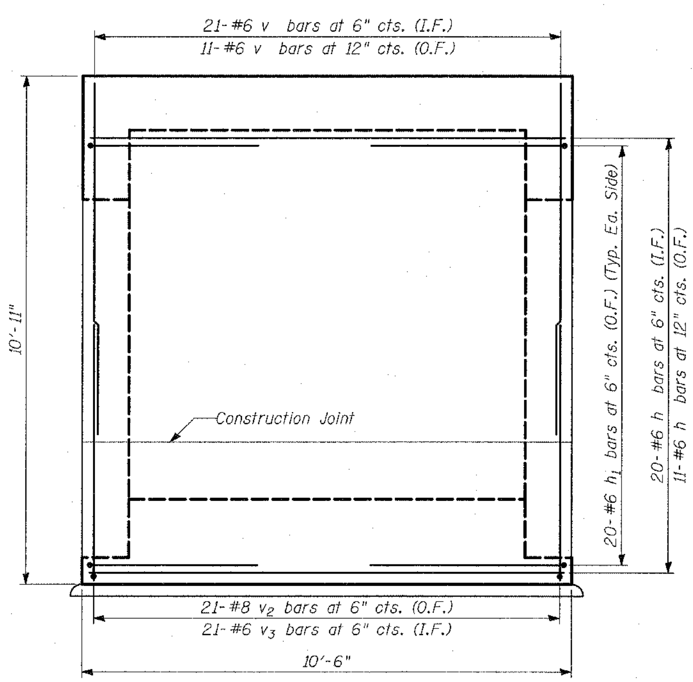
BARS a_1 , a_7 , h_6 , h_7

Bar	a	b	c
a_1	8"	10'-2"	6"
a_7	11"	10'-2"	8"
h_6	8"	11'-2"	6"
h_7	11"	11'-2"	8"

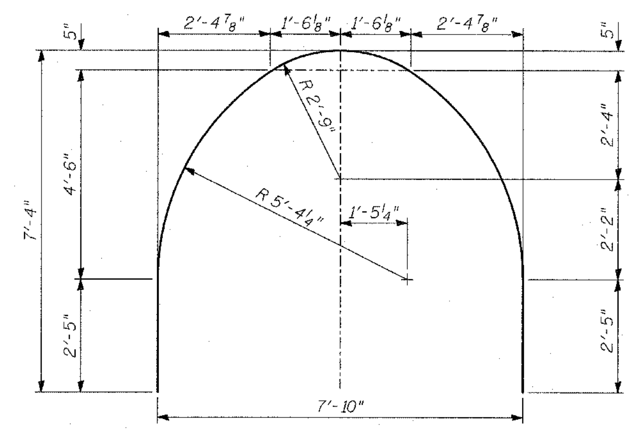


BARS s & s_1

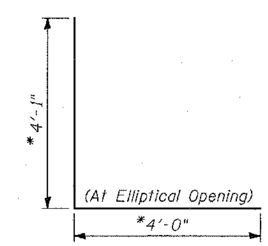
Bar	φ D
s	3'-4"
s_1	4'-1"



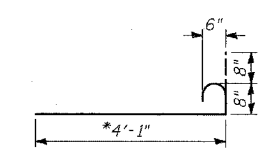
SECTION D-D



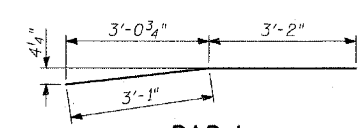
BAR s_2



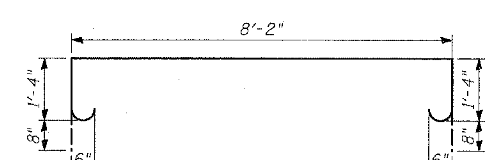
BAR h_1



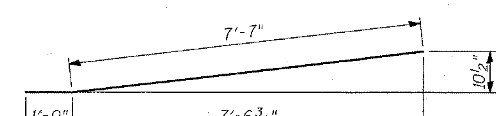
BAR h_2



BAR h_9



BAR a_5



BAR h_3

NOTES:

1. All dimensions and elevations shall be field verified prior to construction.
2. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
3. Manhole Frame, Ladder Rungs, and any inserts installation shall be coordinated with Roadway Plans.
4. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
5. All concrete edges shall be chamfered 1 inch.
6. All lap splices marked on the drawings are minimum.
7. Concrete Compressive Strength fc' = 3,500 psi.
8. Steel Yield Strength = 60,000 psi.
9. Work this Sheet with Sheets 1 and 2 of 3.
10. The Bill of Material is shown for reference only. See Sheet 1 of 3 for Pay Items.

* Cut bars to fit in field.
E.F. - denotes Each Face
E.S. - denotes Each Side
I.F. - denotes Inside Face
O.F. - denotes Outside Face

TYLIN INTERNATIONAL

SHEET 3 OF 3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

JUNCTION CHAMBER 62
DETAILS 2

S.N.
SCALE:
DATE: MARCH 18, 2005

DESIGNED BY: TD, DE
DRAWN BY: DE
CHECKED BY: MI, TD

03/27/2005 03:24:35 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	254
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8 62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
11	8798+59.00	6.5	LT		A(1)	4′	T1F OL	20.66		15.41		
12	8799+33.96	12.6	LT		A(1)	4′	T1F OL	19.62	14.37			14.37
13	194+28.25	17.1	RT	A		4′	T1F CL	1.71		-4.58	-2.79	
14	8801+28.73	4.0	RT		A	4′	T20 F&G	15.35	10.10			
15	8801+30.19	18.0	LT		A	4′	T20 F&G	15.32	10.03		10.03	
16	196+29.24	17.1	RT	A		4′	T1F CL	3.30		-5.93	-1.20	-5.43
21	8803+74.00	4.0	RT		A	4′	T20 F&G	6.72	1.47			
22	8803+74.00	18.0	LT		A	4′	T20 F&G	7.08	1.41		1.41	
23	199+57.51	17.1	RT	A		4′	T1F CL	4.62	-1.61		-7.22	-7.22
24	199+72.62	55.0	RT	A		5′	T1F CL	9.05	-7.36	-7.85		-1.80(E)
25	8806+22.01	4.0	RT		A	4′	T20 F&G	2.31	-2.95		-2.95	-2.95
26	201+09.83	6.3	RT	PLUG					-2.83			
27	8807+59.04	4.0	RT		A	4′	T20 F&G	1.69	-3.56		-3.56	
28	202+53.41	4.0	RT	PLUG					-3.47			
29	199+64.11	5.0	RT		A	4′	T20 F&G	3.69			-1.56	
210	202+54.42	38.0	RT	A		5′	T1F CL	1.86		-9.47		-8.96
211	201+00.50	38.4	RT		C	2′	T1F OL	5.51		0.66		
215	201+15.47	46.3	RT	A		5′	T1F CL	6.97		-8.42		-8.42
2119	8805+00.00	4.0	RT		A	4′	T20 F&G	3.54				-1.71
3A1	206+22.98	33.9	RT	DROP		7′	T1F CL	2.42	-13.38	-9.38		-10.38
3A2	208+10.42	29.4	RT	A		5′	T1F CL	1.27				-8.65
3A3	104+31.14	67.9	LT	DROP		6′	T1F CL	5.42		-9.35	-13.35	-9.79
3A4	206+23.00	64.5	LT	A		5′	T1F CL	-1.08	-13.57		-13.57	-15.07
3A5	206+08.00	64.5	LT	A(2)		6′	T1F CL	-0.98		-15.08		-15.08
3A6	205+18.00	64.5	LT	DROP		8′	T1F CL	-0.68		-15.18	-20.53	
3A7	8809+00.00	3.2	RT		A	4′	T20 F&G	0.84	-4.02		-4.02	
3A8	206+33.48	180.6	LT	PLUG						-9.32		
3A9	206+12.56	182.5	LT	PLUG								-9.76
3A10	203+92.15	13.6	RT	PLUG					-3.97			
3C1	216+58.04	51.9	LT	DROP		7′	T1F CL	-3.52		-9.97	-15.85	-11.47
3C2	216+57.96	30.8	RT	A		5′	T1F CL	1.82	-15.97			-16.97
3C3	216+48.30	30.8	RT	A(2)		6′	T1F CL	1.82		-16.98		-16.98
3C4	216+38.39	30.8	RT	DROP		7′	T1F CL	1.87	-22.69	-16.99		
3C5	216+68.54	51.9	LT	PLUG						-9.93		
3C6	216+47.54	51.9	LT	PLUG								-11.45
51	8760+88.01	4.0	RT		A	4′	T20 F&G	15.08			9.83	
52	8760+88.01	18.0	LT		A	4′	T20 F&G	15.12		9.77		9.77
53	2025+11.85	41.1	RT	A(6)		5′	T1F CL	-9.84	-14.34	-17.57	-14.34	-17.57
54	8763+31.37	4.0	RT		A	4′	T20 F&G	5.04			-0.21	
55	8763+31.29	18.0	LT		A	4′	T20 F&G	5.96	-0.27		-0.27	
56	2027+59.87	41.1	RT	A(6)		5′	T1F CL	-9.71	-15.72	-16.97	-15.72	
57	2027+48.63	41.4	RT	PLUG								-16.99
58	2025+23.08	41.5	RT	PLUG						-17.55		
59	2025+00.62	41.6	RT	PLUG								-17.59
61	2029+66.88	97.4	RT		C	2′	T1F OL	-2.90				-7.75
62	8765+28.14	4.0	RT		A	4′	T20 F&G	-2.90		-8.15		-8.15
63	8765+28.14	18.0	LT		A	4′	T20 F&G	-1.98		-7.23		
64	8765+28.14	8.0	LT	A		4′	T1F CL	-2.30	-9.07	-8.18		-7.25
65	8766+31.34	8.1	LT	A		4′	T1F CL	-3.62	-9.52	-9.52	-9.52	-8.64
66	8766+48.14	18.0	LT		A	4′	T20 F&G	-3.32			-8.57	
67	8766+53.02	4.0	RT		A	4′	T20 F&G	-4.23			-9.48	
68	8766+43.02	4.0	RT		A	4′	T20 F&G	-4.24	-9.51	-9.51		
69	2031+25.81	73.0	RT		C	2′	T1F OL	-4.52	-9.37			
610	2030+92.83	79.6	RT	A		5′	T1F CL	-2.75	-10.35		-9.60	-9.56

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
11	8798+59.00	8799+33.96	2	12	72	1.44	26.4
12	8799+33.96	194+28.25	2	12	48	35.75	2.0
13	194+28.25	196+29.24	2	12	197	0.44	72.6
14	8801+28.73	8801+30.19	2	12	15	0.44	15.3
15	8801+30.19	196+29.24	2	12	33	34.03	2.2
16	196+29.24	199+57.51	3	18	324	0.40	368.5
21	8803+74.00	8803+74.00	2	12	14	0.44	14.2
22	8803+74.00	198+66.19	2	12	18	0.44(3)	0.0
23	199+57.51	199+72.62	3	18	36	0.40	42.3
24	199+72.62	201+15.47	3	24	139	0.40	0.0
25	8806+22.01	201+15.47	2	12	11	0.44	2.1
26	201+09.83	8806+22.01	2	12	25	0.44	31.5
27	8807+59.04	202+54.42	2	12	8	0.44	2.3
28	202+53.41	8807+59.04	2	12	21	0.44	21.4
29	199+64.11	199+57.51	2	12	12	0.44	2.6
210	202+54.42	206+22.98	3	30	364	0.25	0.0
211	201+00.50	8806+22.01	2	12	13	27.77	13.2
215	201+15.47	202+54.42	2	24	135	0.40	0.0
2119	8805+00.00	199+72.62	2	12	20	0.44	20.3
3A1	206+22.98	206+23.00	4	36	94	0.20	0.0
3A2	208+10.42	206+22.98	3	18	183	0.40	0.0
3A3	104+31.14	206+23.00	4	36	112	0.20	0.0
3A4	206+23.00	206+08.00	3	42	10	0.10	0.0
3A5	206+08.00	205+18.00	4	42	85	0.12	0.0
3A6	205+18.00	205+17.99	5	42	13	0.12	0.0
3A7	8809+00.00	203+92.30	2	12	13	0.44(3)	0.0
3A8	206+33.48	104+31.14	4	18	8	0.40	0.0
3A9	206+12.56	104+31.14	4	24	8	0.40	0.0
3A10	203+92.15	8809+00.00	2	12	8	0.44	0.0
3C1	216+58.04	216+57.96	4	36	78	0.16	5.1
3C2	216+57.96	216+48.30	4	36	5	0.16	5.1
3C3	216+48.30	216+38.39	4	36	5	0.16	16.3
3C4	216+38.39	216+38.39	6	36	16	0.16	8.1
3C5	216+68.54	216+58.04	3	15	8	0.45	8.1
3C6	216+47.54	216+58.04	3	36	8	0.20	8.1
51	8760+88.01	8760+88.01	2	12	14	0.44	14.2
52	8760+88.01	2025+11.85	2	12	128	3.57	2.2
53	2025+11.85	2025+09.94	2	12	6	0.44	2.5
54	8763+31.37	8763+31.29	2	12	14	0.44	14.2
55	8763+31.29	2027+59.87	2	12	63	24.52	4.9
56	2027+59.87	2027+59.07	2	12	7	4.86	2.5
57	2027+59.87	2027+48.63	2	27	8	0.25	8.1
58	2025+23.08	2025+11.85	2	27	8	0.25	8.1
59	2025+11.85	2025+00.62	2	30	8	0.25	8.1
61	2029+66.88	8765+28.14	2	12	20	2.00	12.5
62	8765+28.14	8765+28.14	2	12	6	0.44	6.1
63	8765+28.14	8765+28.14	2	12	4	0.44	4.1
64	8765+28.14	8766+31.34	2	15	100	0.45	24.8
65	8766+31.34	2030+92.83	2	18	17	0.47	2.2
66	8766+48.14	8766+31.34	2	12	15	0.44	15.3
67	8766+53.02	8766+43.02	2	12	6	0.44	6.1
68	8766+43.02	2030+92.83	2	12	12	0.44	2.5
69	2031+25.81	2031+27.73	2	12	4	0.44	0.0
610	2030+92.83	2032+28.34	3	27	126	0.24	0.0

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

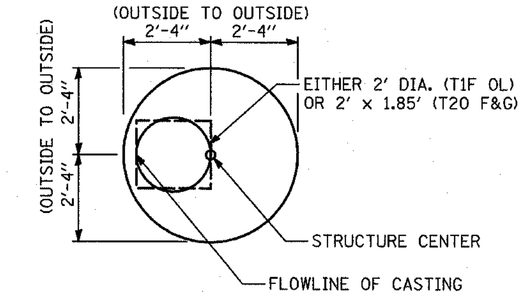
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

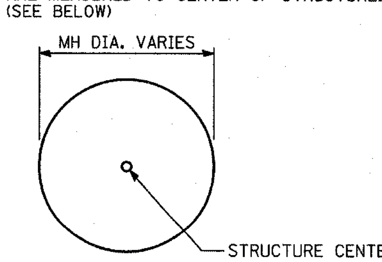
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 1 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: NSB

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLININTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	255
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT			

* (1516.1, 1717 & 1818) R-8

62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
611	2032+28.34	67.2	RT	A(6)		5′	T1F CL	-2.42	-10.65		-10.65	-6.99
612	2033+79.59	62.2	RT	A		5′	T1F CL	1.89	-11.46		-10.99	
613	8768+06.15	4.0	RT		A	4′	T20 F&G	-1.55		-6.80		-6.80
614	8769+12.88	4.0	RT		A	4′	T20 F&G	1.65		-3.60		
615	2032+69.79	28.7	RT	PLUG								-6.70
616	2030+74.53	43.2	RT	PLUG							-9.44	
617	NOT USED	-	-	-	-	-	-	-	-	-	-	-
618	8766+24.19	4.0	RT		A	4′	T20 F&G	-4.21				-9.46
71	2034+83.50	55.4	RT		C	2′	T1F OL	4.22	-0.63			
72	2035+02.90	60.2	RT	A		5′	T1F CL	5.31	-11.74		-11.74	-0.65
73	2035+02.88	48.3	RT		A	4′	T20 F&G	5.07		-0.27		-0.27
74	2035+92.40	58.1	RT	A(2)		6′	T1F CL	7.34	-11.97		-11.97	
75	2036+35.46	45.5	RT		A	4′	T20 F&G	8.05		2.69		
76	2038+14.48	52.2	RT	A		4′	T1F CL	10.05	5.67		-10.73	
77	2036+19.20	57.8	RT	A(2)		6′	T1F CL	7.89	-11.47	2.62	-11.47	
78	2037+55.18	43.0	RT		A	4′	T20 F&G	10.09		4.73		4.73
79	2038+44.71	40.0	RT		A	4′	T20 F&G	11.20			5.94	
710	2035+02.80	36.3	RT	PLUG								-0.23
711	2037+55.00	31.0	RT	PLUG								4.77
81	8739+87.68	18.0	LT		A(1)	4′	T1F OL	16.26	11.01			
82	8740+82.16	18.0	LT		A(1)	4′	T1F OL	16.45	11.20			
83	8741+71.82	18.0	LT		A	4′	T20 F&G	16.68		11.43		
84	8740+87.34	9.4	LT	A		4′	T1F CL	16.97	5.28	11.38	10.58	
85	8741+83.85	4.0	RT		A	4′	T20 F&G	16.52	11.27			
86	2212+23.40	133.3	RT		A(1)	4′	T1F OL	17.28				11.28
87	2212+38.40	133.3	RT		A(1)	4′	T1F OL	17.38			11.38	
88	8741+71.68	7.6	LT	A		4′	T1F CL	16.82	4.42	11.22	4.48	11.41
91	8742+75.22	8.0	LT	A		4′	T1F CL	14.43	3.18	9.10	3.43	
92	8742+67.53	4.0	RT		A	4′	T20 F&G	14.39	9.14			
93	8743+06.46	18.0	LT		A	4′	T20 F&G	13.35	8.06			
94	8745+58.94	18.0	LT		A	4′	T20 F&G	5.04	-0.21			
95	8745+68.05	8.0	LT	A		4′	T1F CL	4.78			-2.58	-2.83
96	2216+50.82	79.7	RT	A		4′	T1F CL	5.11		-2.94	-2.94	
97	NOT USED											
98	8746+67.73	4.0	RT		A	4′	T20 F&G	2.61		-2.68		-2.68
99	8745+12.63	4.0	RT		A	4′	T20 F&G	5.86	0.61			
910	NOT USED	-	-	-	-	-	-	-	-	-	-	-
911	2217+52.90	53.0	RT		A	4′	T20 F&G	2.02		-3.23		-3.23
912	8747+54.30	4.0	RT		A	4′	T20 F&G	1.68	-3.57			
101	8748+26.21	18.0	LT		A	4′	T20 F&G	1.90	-3.88			-3.88
102	8748+28.67	4.0	RT		A	4′	T20 F&G	1.38	-3.87			
103	8748+48.67	4.0	RT		A	4′	T20 F&G	1.40			-3.85	
104	8748+38.67	4.0	RT		A	4′	T20 F&G	1.38	-3.87		-3.89	-3.89
105	8749+08.59	4.0	RT		A	4′	T20 F&G	1.58	-3.67			
106	8749+90.65	4.0	RT		A	4′	T20 F&G	2.00	-4.01		-4.01	
107	2221+13.32	95.6	RT	A		4′	T1F CL	2.61	-4.74		-4.17	
108	8751+86.25	4.0	RT		A	4′	T20 F&G	1.86	-3.39			-3.39
109	2222+69.55	92.9	RT	A		5′	T1F CL	2.53	-6.52		-5.50	-4.30
1010	8752+56.99	4.0	RT		A	4′	T20 F&G	1.50	-3.75			
1011	8753+46.67	2.5	RT		A	4′	T20 F&G	1.13		-3.82		-3.82
1012	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1013	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1014	2222+69.56	65.9	RT	PLUG								-3.31
1015	2224+29.79	71.2	RT	PLUG								-3.78

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
611	2032+28.34	2033+79.59	2	27	142	0.24	0.0
612	2033+79.59	2035+02.90	3	27	115	0.24	0.0
613	8768+06.15	876+85.50	2	12	14	0.44(3)	4.1
614	8769+12.88	8769+12.91	2	12	9	14.94	5.1
615	2032+69.79	8768+06.15	2	12	22	0.44	22.4
616	8766+48.14	2030+74.53	2	12	19	0.44	19.3
617	2031+99.40	2032+28.34	2	12	52	2.31	2.0
618	8766+24.19	8766+31.64	2	12	6	0.44	6.1
71	2034+83.50	2035+02.90	2	12	15	9.87	0.0
72	2035+02.90	2035+92.40	4	27	82	0.28	0.0
73	2035+02.88	2035+02.90	2	12	10	19.00	4.1
74	2035+92.40	2036+05.79	2	27	8	0.24	0.0
75	2036+35.46	2036+35.00	2	12	21	0.44(5)	4.1
76	2038+14.48	2036+19.20	4	18	185	0.40	0.0
77	2036+19.20	2036+05.79	2	18	8	0.40	0.0
78	2037+55.18	8772+80.14	2	12	22	0.44(5)	5.1
79	2038+44.71	2038+14.48	2	12	28	0.96	9.0
710	2035+02.80	2035+02.88	4	12	8	0.44	8.1
711	2037+55.00	2037+55.18	4	12	8	0.44	8.1
81	8739+87.68	8740+87.34	2	12	97	0.44	39.6
82	8740+82.16	8740+87.34	2	12	5	3.67	5.1
83	8741+71.82	8741+71.68	2	12	5	0.44	5.1
84	8740+87.34	8742+75.22	3	12	80	1.00	146.4
85	8741+83.85	8741+71.68	2	12	12	0.44	6.1
86	2212+23.40	8741+40.17	2	12	17	0.44(3)	17.3
87	2212+38.40	8741+39.44	2	12	17	0.79	17.3
88	8741+71.68	8742+75.22	3	12	100	1.00	124.9
91	8742+75.22	8745+68.05	2	15	289	2.00	257.8
92	8742+67.53	8742+75.22	2	12	9	0.44	9.2
93	8743+06.46	8743+13.55	2	12	12	0.44(3)	12.2
94	8745+58.94	8745+68.05	2	12	8	0.44	8.1
95	8745+68.05	2216+50.82	2	18	12	1.00	7.8
96	2216+50.82	8743+13.55	2	18	76	1.13	19.9
97	NOT USED	-	-	-	-	-	-
98	8746+67.73	2217+52.90	2	12	45	1.22	23.6
99	8745+12.63	8745+12.63	2	12	9	0.44(3)	9.2
910	NOT USED	-	-	-	-	-	-
911	NOT USED	-	-	-	-	-	-
912	8747+54.30	8748+26.21	2	12	71	0.44	11.3
101	8748+26.21	8748+36.20	2	12	10	1.05	10.2
102	8748+28.67	8748+38.67	2	12	6	0.44	6.1
103	8748+48.67	8748+38.67	2	12	6	0.44	6.1
104	8748+38.67	8748+34.26	2	12	38	0.44	38.6
105	8749+08.59	8749+90.65	2	12	78	0.44	13.3
106	8749+90.65	2221+13.32	2	12	36	0.44	36.6
107	2221+13.32	2222+69.55	2	18	152	0.50	69.3
108	8751+86.25	2222+69.55	2	12	3	30.30	3.1
109	2222+69.55	2224+29.76	2	24	156	0.40	143.0
1010	8752+56.99	8752+64.08	2	12	9	34.11	9.2
1011	8753+46.67	2224+29.76	2	12	5	0.44	5.1
1012	NOT USED	-	-	-	-	-	-
1013	NOT USED	-	-	-	-	-	-
1014	2222+69.56	8751+86.25	2	12	18	0.44	18.3
1015	2224+29.79	8753+46.67	2	12	8	0.44	8.1

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

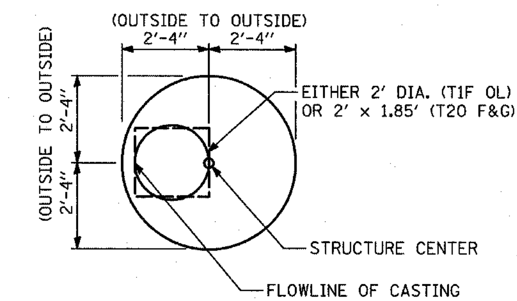
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

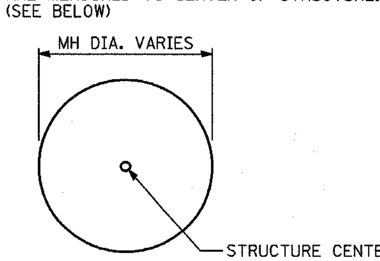
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 2 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE — DRAWN BY: NSB

DATE: MARCH 18, 2005 — CHECKED BY: DA

TYLIN INTERNATIONAL

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
1016	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1017	2224+29.76	89.8	RT	A		5′	T1F CL	2.20	-7.15		-7.14	-3.84
111	2225+97.73	86.8	RT	A		5′	T1F CL	0.32	-9.72		-7.74	-5.09
112	2225+86.24	75.2	RT		C	2′	T20 F&G	0.05		-4.65		
113	2227+43.60	64.1	RT		C	2′	T20 F&G	-1.40		-5.94		
114	NOT USED	-	-	-	-	-	-	-	-	-	-	-
115	2229+07.22	80.7	RT	A		5′	T1F CL	-1.77	-10.85		-10.85	-8.60
116	2229+06.85	62.9	RT		C	2′	T20 F&G	-2.76		-7.51		
117	2227+43.44	83.8	RT	A		5′	T1F CL	-0.29	-10.29		-10.27	-9.29
118	NOT USED	-	-	-	-	-	-	-	-	-	-	-
119	NOT USED	-	-	-	-	-	-	-	-	-	-	
121	2233+92.12	76.8	RT		C	2′	T1F OL	-6.19	-11.04	-11.04		
122	NOT USED	-	-	-	-	-	-	-	-	-	-	-
123	2235+71.80	2.2	LT	A		7′	T1F CL	-6.68	-18.34	-18.34	-18.34	
124	2235+56.49	85.0	RT	PLUG								-18.67
131	NOT USED	-	-	-	-	-	-	-	-	-	-	-
132	2239+87.87	75.3	RT	A		5′	T1F CL	-0.19		-17.75		-17.75
133	2240+40.79	70.0	RT		A	4′	T20 F&G	-0.14		-7.47		-7.47
134	2240+40.73	60.0	RT	PLUG								-7.44
135	2240+32.27	75.5	RT	A		5′	T1F CL	0.52	-8.33	-7.50 (N)	-9.76	
136	2238+55.75	62.3	RT		A	4′	T20 F&G	2.49	-2.76			
137	NOT USED	-	-	-	-	-	-	-	-	-	-	-
138	2239+64.08	75.3	RT		A	4′	T1F CL	-1.10	-9.74		-6.70	
141	2242+15.44	68.9	RT	PLUG								-4.20
142	2242+15.90	80.9	RT		A	4′	T20 F&G	1.66		-4.24		-4.24
143	8726+14.93	26.8	RT		A	4′	T20 F&G	1.72	-3.53			
144	8724+04.05	37.6	RT		A	4′	T20 F&G	1.78	-3.89			-3.89
145	8724+13.99	38.5	RT		A	4′	T20 F&G	1.81			-3.87	
146	8724+29.27	13.5	RT	A		5′	T1F CL	2.42	-7.01		-7.01	-3.58
147	2244+89.63	71.6	RT		A	4′	T1F OL	2.68		-2.84	-2.84	
148	8726+11.09	13.6	RT	A		5′	T1F CL	2.02	-4.81		-6.13	-4.81
149	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1410	8727+56.85	8.0	LT	A		4′	T1F CL	3.02	-10.19	-2.56	-10.41	-2.56
1411	2244+25.01	69.2	RT		A	4′	T1F OL	2.93	-2.57			
1412	8727+05.52	8.0	LT	A		4′	T1F CL	2.60	-11.01			-11.01
1413	8726+39.45	18.0	LT		A	4′	T20 F&G	2.49		-3.16		
1414	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1415	8726+24.91	26.2	RT		A	4′	T20 F&G	1.72	-3.55		-3.55	-3.55
1416	8726+34.89	25.6	RT		A	4′	T20 F&G	1.72			-3.53	
1417	2246+45.19	76.3	RT	A		4′	T1F CL	2.54	-11.40	-11.15		
1418	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1419	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1420	2243+68.12	64.0	RT	PLUG								-3.43
1421	8725+21.27	13.7	RT	A		4′	T1F CL	2.38	-6.56		-6.57	-3.20
151	8727+64.85	18.0	LT		A	4′	T20 F&G	3.14			-2.40	
152	8727+69.13	4.0	RT		A	4′	T20 F&G	2.83				-2.42
153	2249+29.83	77.0	RT	A		5′	T1F CL	-4.41	-15.22		-13.22	
154	2250+98.90	77.1	RT	A		5′	T1F CL	-8.03	-15.96	-12.53	-15.96	
155	2252+20.27	77.1	RT	A		5′	T1F CL	-9.48	-17.48	-16.31	-16.48	
156	8729+55.93	18.0	LT		A	4′	T20 F&G	6.45	1.20		1.20	
157	8729+56.03	4.0	RT		A	4′	T20 F&G	6.41				1.16
158	NOT USED											
159	8730+33.66	8.0	LT	A		4′	T1F CL	7.26	-6.77		-6.77	1.49
1510	8731+15.41	18.3	LT		A(1)	4′	T1F OL	7.08			1.83	

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
1016	NOT USED	-	-	-	-	-	-
1017	2224+29.76	2225+97.73	2	24	147	0.40	120.1
111	2225+97.73	2229+07.22	2	30	158	0.35	139.3
112	2225+86.24	2225+97.73	2	12	9	0.44	9.2
113	2227+43.60	2227+43.44	2	12	11	0.44	11.2
114	NOT USED	-	-	-	-	-	-
115	2229+07.22	2231+59.83	3	36	248	0.30	249.6
116	2229+06.85	2229+07.22	2	12	14	7.79	14.2
117	2227+43.44	2229+07.22	2	30	159	0.35	123.3
118	NOT USED	-	-	-	-	-	-
119	NOT USED	-	-	-	-	-	-
121	2233+92.12	2234+49.61	2	12	59	0.44	2.8
122	2235+61.76	2235+71.80	3	24	56	0.50	0.0
123	NOT USED	-	-	-	-	-	-
131	NOT USED	-	-	-	-	-	-
132	2239+87.87	2239+88.31	4	36	4	0.30	4.1
133	2240+40.79	2240+32.27	2	15	6	0.44	6.1
134	2240+40.73	2240+40.79	2	15	8	0.44	8.1
135	2240+32.27	2239+80.04	3	24	46	0.30	15.9
136	2238+55.75	2239+64.08	2	15	106	3.70	46.1
137	2239+80.04	2239+87.87	4	36	3	0.30	0.0
138	2239+64.08	2239+80.04	3	15	11	1.50	0.0
141	2242+15.44	2242+15.90	2	12	8	0.44	8.1
142	2242+15.90	2242+16.09	2	12	8	0.44(3)	4.1
143	8726+14.93	8726+24.91	2	12	6	0.44	6.1
144	8724+04.05	8724+13.99	2	12	6	0.44	6.1
145	8724+13.99	8724+29.27	2	12	24	0.44	24.4
146	8724+29.27	2240+32.27	2	18	331	0.40	293.8
147	2244+89.63	8725+21.27	2	12	42	0.87	42.5
148	8726+11.09	8725+21.27	2	18	86	0.50	99.5
149	NOT USED	-	-	-	-	-	-
1410	8727+56.85	8727+05.52	3	15	48	1.25	48.8
1411	2244+25.01	2244+89.63	2	12	61	0.44	31.7
1412	8727+05.52	2246+45.19	3	15	15	1.00	24.5
1413	8726+39.45	8726+11.09	2	12	37	5.56	37.7
1414	NOT USED	-	-	-	-	-	-
1415	8726+24.91	8726+11.09	2	12	13	2.00	13.3
1416	8726+34.89	8726+24.91	2	12	6	0.44	6.1
1417	2246+45.19	2249+29.83	3	18	281	0.65	362.5
1418	NOT USED	-	-	-	-	-	-
1419	NOT USED	-	-	-	-	-	-
1420	2243+68.12	8724+29.27	2	12	33	0.44	33.6
1421	8725+21.27	8724+29.27	2	18	88	0.50	112.0
151	8727+64.85	8727+56.85	2	12	8	2.00	8.1
152	8727+69.13	8727+56.85	2	12	12	1.19	12.2
153	2249+29.83	8731+61.72	2	24	165	0.45	157.0
154	2250+98.90	2252+20.27	2	24	117	0.44	14.1
155	2252+20.27	2254+21.96	2	30	197	0.30	117.4
156	8729+55.93	8729+56.14	2	12	4	17.25	4.1
157	8729+56.03	8729+56.14	2	12	6	10.83	6.1
158	NOT USED	-	-	-	-	-	-
159	8730+33.66	8729+56.14	3	12	74	1.25	116.1
1510	8731+15.41	8731+05.41	2	12	6	0.50	6.1
1511	8731+05.41	8731+05.48	2	12	3	1.11	3.1

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)•	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

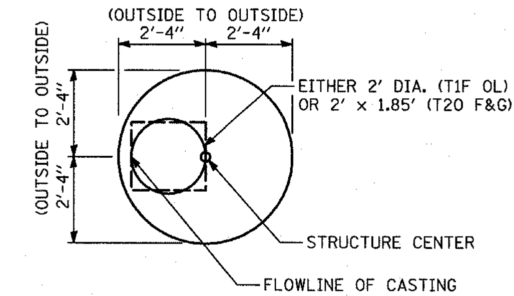
•ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

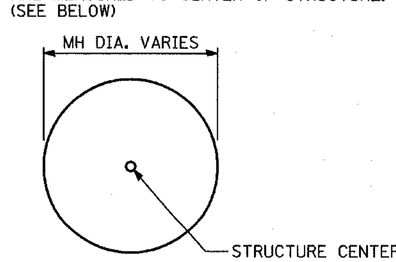
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: NSB

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	257
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
1511	8731+05.41	18.2	LT		A(1)	4′	T1F OL	7.07	1.80	1.80		
1512	8730+64.01	18.0	LT		A(1)	4′	T1F OL	6.99			1.63	
1513	8730+32.95	18.0	LT		A(1)	4′	T1F OL	6.94	1.51	1.51		
1514	NOT USED	-	-	-	-	-	-	-	-	-	-	-
1515	8729+98.85	18.0	LT		A	4′	T20 F&G	6.91			1.66	
1516	8730+05.08	10.3	RT		A	4′	T1F OL	7.91				2.66
1517	8729+56.14	8.0	LT		A	4′	T1F OL	6.57	-7.70	0.51	-7.74	0.51
1518	8731+05.48	9.8	LT		A	4′	T1F OL	7.35			-5.92	1.77
161	NOT USED	-	-	-	-	-	-	-	-	-	-	-
162	2254+21.96	79.0	RT	A		5′	T1F CL	-10.55	-18.07		-18.07	
163	2255+92.16	79.0	RT	A		5′	T1F CL	-11.06	-18.57		-18.57	
164	2257+84.02	85.1	RT	A		5′	T1F CL	-2.34	-18.93	-9.17	-18.93	
165	2257+62.34	90.1	RT		C	2′	T1F OL	-1.10	-5.95			
166	2256+73.35	81.6	RT	A		5′	T1F CL	-8.49	-18.73		-18.72	
171	8699+63.62	16.0	LT		A(1)	4′	T1F OL	7.88	2.63			
172	8700+61.63	18.0	LT		A(1)	4′	T1F OL	8.07	2.82			
173	8700+70.84	8.0	LT	A		4′	T1F CL	8.30	0.67	2.71	2.18	
174	8701+21.55	18.0	LT		A(1)	4′	T1F OL	7.90	2.65			
175	8701+59.21	18.0	LT		A	4′	T20 F&G	7.77	2.52			
176	NOT USED	-	-	-	-	-	-	-	-	-	-	-
181	8702+16.24	4.0	RT		A	4′	T20 F&G	7.34				2.09
182	8702+19.11	18.0	LT		A	4′	T20 F&G	7.37	2.12			
183	8704+02.36	18.0	LT		A	4′	T20 F&G	2.95	-2.30			
184	8704+48.37	4.0	RT		A	4′	T20 F&G	1.98				-3.27
185	8704+09.12	8.0	LT	DROP(6)		6′	T1F CL	2.80	-11.30	-2.33 (W)	-1.27	-13.30
186	2267+10.74	77.9	RT	A		5′	T1F CL	0.45		-13.36	-15.36	
187	8707+24.68	8.0	LT	A		4′	T1F CL	2.71		-9.74	-9.74	
188	8705+28.39	4.0	RT		A	4′	T20 F&G	1.51	-3.74			
189	8705+38.33	4.0	RT		A	4′	T20 F&G	1.50	-3.77		-3.77	-3.77
1810	8705+38.33	18.0	LT		A	4′	T20 F&G	1.86		-3.39		
1811	8706+00.01	4.0	RT		A	4′	T20 F&G	1.70				-3.55
1812	8706+56.48	21.8	LT		A	4′	T1F OL	2.25		-3.00		
1813	2270+20.92	99.2	RT	A		4′	T1F CL	1.99	-7.68		-4.84	-9.68
1814	8706+66.31	4.0	RT		A	4′	T20 F&G	2.03				-3.22
1815	2270+68.14	91.6	RT		A	4′	T20 F&G	2.55		-2.96		-2.96
1816	8705+48.33	4.0	RT		A	4′	T20 F&G	1.51			-3.74	
1817	2270+66.00	66.0	RT	PLUG								-2.86
1818	8705+64.55	26.3	LT	PLUG								-4.59
1819	2268+67.95	55.0	RT		C	2′	T20 F&G	1.84				-3.01
1820	8705+38.33	8.0	LT	A		4′	T1F CL	1.82	-10.65	-3.80	-10.68	-3.41
1821	2270+12.34	97.8	RT		C	2′	T1F OL	3.30	-2.86			
1822	8702+26.69	8.0	LT	A		4′	T1F CL	7.33	-0.49	1.75	0.00	1.75
191	8708+70.96	4.0	RT		A	4′	T20 F&G	3.04		-2.21		
192	2276+25.47	72.4	RT		C	2′	T20 F&G	1.54				-3.10
193	2271+67.02	93.9	RT	A		4′	T1F CL	2.81			-6.83	-2.23
194	2274+47.00	79.2	RT		C	2′	T20 F&G	2.76				-1.74
201	227+89.80	65.6	RT		C	2′	T20 F&G	-0.27	-5.03			
212	8803+44.42	18.0	LT		A(1)	4′	T1F OL	7.77	2.52			
213	8803+67.21	5.1	RT		A(1)	4′	T1F OL	8.40				3.15
214	8803+73.22	8.5	LT	A		5′	T1F CL	7.70	-4.14	0.86	-3.64	0.86(S)
216	2316+84.19	73.5	RT		A	4′	T20 F&G	-4.22		-10.71		-10.71
217	8804+20.00	18.0	LT		A	4′	T20 F&G	6.29				0.87
218	8804+20.00	2.8	RT		A	4′	T20 F&G	6.26				0.89
219	2316+36.29	74.7	RT		C	2′	T1F OL	-5.00			-9.85	

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
1512	8730+64.01	8730+32.95	2	12	27	0.44	27.5
1513	8730+32.95	8730+33.66	2	12	4	0.44	4.1
1514	NOT USED	-	-	-	-	-	-
1515	8729+98.85	8729+55.93	2	12	39	0.44	39.7
1516	8730+05.08	8730+03.95	2	12	21	0.44(3)	21.4
1517	8729+56.14	8727+56.85	3	12	196	1.25	318.9
1518	8731+05.48	8730+33.66	3	12	68	1.25	109.0
161	NOT USED	-	-	-	-	-	-
162	2254+21.96	2255+92.16	2	30	166	0.30	34.6
163	2255+92.16	2256+73.35	2	36	77	0.19	14.4
164	2257+84.02	2258+16.24	3	36	25	0.20	0.0
165	2257+62.34	2257+84.02	2	12	19	16.90	0.0
166	2256+73.35	2257+84.02	3	36	106	0.16	0.0
171	8699+63.62	8700+70.84	2	12	103	0.44	42.0
172	8700+61.63	8700+69.53	2	12	8	1.38	8.1
173	8700+70.84	8702+26.69	4	12	152	0.44	55.5
174	8701+21.55	8701+27.64	2	12	9	0.44(3)	9.2
175	8701+59.21	8701+65.93	2	12	10	0.44(3)	10.2
176	NOT USED	-	-	-	-	-	-
181	8702+16.24	8702+16.24	2	12	11	3.12	11.2
182	8702+19.11	8702+26.69	2	12	7	5.33	7.1
183	8704+02.36	8704+09.12	2	12	6	0.44	6.1
184	8704+48.37	8704+48.38	2	12	13	0.44(5)	13.2
185	8704+09.12	2267+10.74	3	24	17	0.37	23.7
186	2267+10.74	2264+77.61	3	24	222	0.40	343.8
187	8707+24.68	8704+09.12	3	18	183	0.50	271.8
188	8705+28.39	8705+38.33	2	12	6	0.44	6.1
189	8705+38.33	8705+38.33	2	12	6	0.44	6.1
1810	8705+38.33	8705+38.33	2	12	4	0.44	4.1
1811	8706+00.01	8706+00.01	2	12	12	0.44(5)	12.2
1812	8706+56.48	8706+56.22	2	12	15	0.44(3)	15.3
1813	2270+20.92	8707+24.68	3	18	14	0.50	14.2
1814	8706+66.31	8706+66.31	2	12	12	0.44(5)	12.2
1815	2270+68.14	8707+72.38	2	12	6	0.44	4.1
1816	8705+48.33	8705+38.33	2	12	6	0.44	6.1
1817	2270+66.00	2270+68.14	2	12	22	0.44	22.4
1818	8705+64.55	8706+66.31	2	12	19	0.44	12.8
1819	NOT USED	-	-	-	-	-	-
1820	8705+38.33	8704+09.12	3	18	125	0.50	205.0
1821	2270+12.34	2270+20.92	2	12	6	33.00	6.1
1822	8702+26.69	8704+09.12	2	12	178	0.44	304.7
191	8708+70.96	2271+67.02	2	12	4	0.44	4.1
192	2276+25.47	2276+25.47	2	12	7	0.44	7.1
193	2271+67.02	2270+20.92	2	15	143	0.60	136.1
194	2274+47.00	2274+47.00	2	12	7	0.44	7.1
201	227+89.80	2278+09.35	2	12	8	0.44	8.1
212	8803+44.42	8803+73.22	2	12	26	6.38	26.4
213	8803+67.21	8803+73.22	2	12	13	17.62	13.2
214	8803+73.22	8804+20.00	3	18	43	1.50	49.1
216	2316+84.19	2316+84.14	2	12	4	0.44	4.1
217	8804+20.00	8804+20.00	2	12	4	2.00	4.1
218	8804+20.00	8804+20.00	2	12	5	2.00	5.1
219	2316+36.29	2316+31.58	2	12	15	0.44	0.0
2110	8801+19.47	8801+56.14	2	12	33	0.67	33.6

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

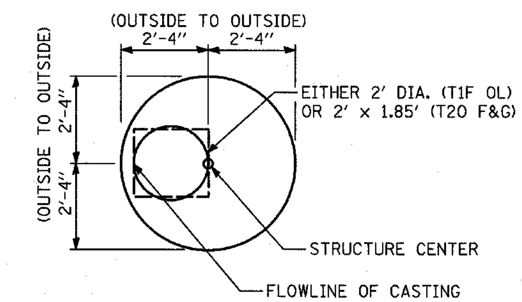
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

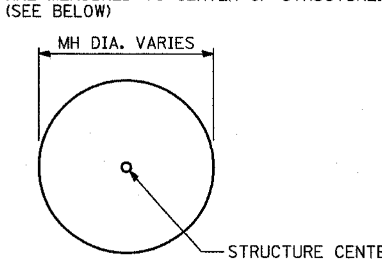
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 4 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE

DATE: MARCH 18, 2005

DRAWN BY: NSB

CHECKED BY: DA

TYLIN INTERNATIONAL

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
2110	8801+19.47	6.6	LT		A(1)	4′	T1F OL	8.97	3.72			
2111	8801+56.14	11.5	LT		A(1)	4′	T1F OL	8.75	3.50		3.50	
2112	8802+43.26	18.5	LT		A(1)	4′	T1F OL	8.26	3.01		3.01	
2113	8802+93.67	18.7	LT		A(1)	4′	T1F OL	7.99		2.74	2.74	
2114	8801+63.76	2.1	LT	A		4′	T1F CL	8.94	-0.57		3.47	
2115	8801+92.81	15.2	LT		A(1)	4′	T1F OL	8.50	3.25			
2116	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2117	2316+84.14	79.8	RT	A		5′	T1F CL	-3.70	-16.49		-16.49	-10.73
2118	8804+20.00	8.3	LT	A		4′	T1F CL	6.38	-4.79	0.79	-4.79	0.79
231	2318+40.88	87.4	RT		A	4′	T20 F&G	-3.06				-9.06
232	2318+41.04	75.0	RT	A		5′	T1F CL	-2.67	-15.93	-9.50	-15.93	
233	8805+70.06	4.0	RT		A	4′	T20 F&G	1.54				-3.71
234	8805+70.00	18.0	LT		A	4′	T20 F&G	1.94		-3.66		
235	8805+70.06	8.1	LT	A		4′	T1F CL	1.87	-7.08	-3.74	-6.98	-3.74
236	2318+92.00	63.0	RT		C	2′	T20 F&G	-2.17		-8.11		-8.11
237	2319+28.00	81.2	RT	A		5′	T1F CL	-1.62	-13.64	-8.45	-15.64	-8.45
238	2319+26.93	95.0	RT		A	4′	T20 F&G	-1.98				-7.23
239	8806+96.59	18.0	LT		A	4′	T20 F&G	-0.87	-6.12			
2310	8807+18.07	8.0	LT	A		5′	T1F CL	0.05	-6.78		-9.24	-11.24
2311	2320+18.83	75.8	RT	A		5′	T1F CL	-1.22	-11.84	-11.34	-13.34	
2312	8807+10.65	20.7	LT		A	4′	T20 F&G	-0.33	-6.17	-6.17		
2313	8807+40.15	41.1	LT		A	4′	T20 F&G	0.20			-5.05	
2314	8807+30.15	4.0	RT		A	4′	T20 F&G	-0.72	-5.97		-5.97	
2315	8807+50.15	4.0	RT		A	4′	T20 F&G	-0.50			-5.75	
2316	8807+40.15	4.0	RT		A	4′	T20 F&G	-0.60	-5.85		-5.85	
2317	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2318	2320+88.40	63.0	RT		C	2′	T20 F&G	-0.81		-6.97		-6.97
2319	8808+74.59	4.0	RT		A	4′	T20 F&G	0.61				-4.64
2320	8808+74.59	33.7	LT		A	4′	T20 F&G	0.95		-4.77	-4.77	
2321	2321+74.24	81.8	RT	A		4′	T1F CL	-0.65	-10.24		-11.24	
2322	8810+33.38	4.0	RT		A	4′	T20 F&G	1.08				-4.17
2323	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2324	8810+33.38	26.0	LT		A	4′	T20 F&G	1.60		-4.27		-4.27
2325	2323+33.42	85.3	RT	A		4′	T1F CL	0.14	-9.13	-5.82	-9.62	-5.82
2326	2319+29.69	63.0	RT		C	2′	T20 F&G	-1.77		-7.97		
2327	2319+64.67	63.0	RT		C	2′	T20 F&G	-1.57		-6.27		
2328	8806+55.11	4.0	RT		A	4′	T20 F&G	0.16				-5.09
2329	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2330	8808+07.37	4.0	RT		A	4′	T20 F&G	-0.06				-5.31
2331	8809+53.99	4.0	RT		A	4′	T20 F&G	0.68				-4.57
251	2323+53.48	63.0	RT		A	4′	T20 F&G	-0.45		-5.70		
252	2324+51.61	90.0	RT	A		4′	T1F CL	0.32	-8.56	-5.27(N)	-8.56	-6.02
253	2324+51.80	63.0	RT		A	4′	T20 F&G	-0.76		-6.01		
254	2325+19.80	92.8	RT	A		4′	T1F CL	0.38		-5.20	-8.23	-6.51
255	8810+65.14	4.0	RT		A	4′	T20 F&G	1.75			-3.50	-3.50
256	8810+65.14	26.0	LT		A	4′	T20 F&G	2.27		-3.60		
257	2325+20.08	76.3	RT		C	2′	T1F OL	-2.00		-6.85		
258	8812+66.74	4.0	RT		A	4′	T20 F&G	2.27			-2.98	
259	2326+50.46	63.0	RT		A	4′	T20 F&G	-2.04		-7.29		
2510	2326+40.88	89.4	RT	A		4′	T1F CL	-0.16	-12.59	-10.84		-7.40
2511	8813+38.84	14.4	LT	A		4′	T1F CL	3.21	-8.45	-2.37(N)		-10.45
2512	8813+87.11	4.0	RT		A	4′	T20 F&G	3.12				-2.13
2513	9481+97.09	18.0	RT		A	4′	T20 F&G	3.33			-1.92	
2514	2327+35.82	63.0	RT		A	4′	T20 F&G	-2.91		-8.16		

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
2111	8801+56.14	8801+63.76	2	12	7	0.44	7.1
2112	8802+43.26	8802+93.67	2	12	47	0.57	47.8
2113	8802+93.67	8802+93.82	2	12	11	0.44(3)	11.2
2114	8801+63.76	8803+73.22	3	12	206	1.50	271.0
2115	8801+92.81	8802+43.26	2	12	46	0.52	46.8
2116	2316+84.17	2316+84.19	2	12	10	0.44	10.2
2117	2316+84.14	2316+16.41	3	24	63	0.35	0.0
2118	8804+20.00	8805+70.06	2	18	146	1.50	166.8
231	2318+40.88	9470+47.46	2	12	6	7.33	6.1
232	2318+41.04	2316+84.14	3	24	153	0.36	329.0
233	8805+70.06	8805+70.06	2	12	7	0.44	7.1
234	8805+70.00	8805+70.06	2	12	4	2.00	4.1
235	8805+70.06	8807+18.07	2	18	144	1.50	164.5
236	2318+92.00	2318+90.77	2	15	21	0.44(3)	16.3
237	2319+28.00	2318+41.04	3	24	83	0.35	182.8
238	2319+26.93	2319+28.00	2	12	8	0.44	8.1
239	8806+96.59	8807+10.65	2	12	12	0.44	12.2
2310	8807+18.07	2320+18.83	3	18	35	0.30	40.9
2311	2320+18.83	2319+28.00	3	24	87	0.35	131.0
2312	8807+10.65	9472+29.04	2	12	8	0.44(5)	8.1
2313	8807+40.15	2320+18.83	2	12	20	0.44	20.3
2314	8807+30.15	8807+18.07	2	12	12	6.75	12.2
2315	8807+50.15	8807+40.15	2	12	6	1.67	6.1
2316	8807+40.15	8807+30.15	2	12	6	3.67	6.1
2317	NOT USED	-	-	-	-	-	-
2318	2320+88.40	2320+87.99	2	12	18	0.44(3)	2.1
2319	8808+74.59	8808+74.59	2	12	30	0.44	30.5
2320	8808+74.59	2321+74.24	2	12	12	22.60	2.1
2321	2321+74.24	2320+18.83	2	18	151	0.40	19.0
2322	8810+33.38	8810+33.38	2	12	22	0.44	22.4
2323	2323+53.48	2323+33.42	2	12	28	0.44	3.1
2324	8810+33.38	2323+33.42	2	12	22	7.05	3.1
2325	2323+33.42	2321+74.24	2	18	155	0.40	0.0
2326	2319+29.69	2319+28.00	2	12	16	3.00	16.3
2327	2319+64.67	2319+64.71	2	12	19	0.44(3)	19.3
2328	8806+55.11	8806+55.11	2	12	9	0.44(3)	9.2
2329	NOT USED	-	-	-	-	-	-
2330	8808+07.37	2321+08.02	2	12	50	0.44(3)	40.2
2331	8809+53.99	2322+54.58	2	12	51	0.44(3)	31.9
251	NOT USED	-	-	-	-	-	-
252	2324+51.61	2323+33.42	2	12	115	0.50	0.0
253	2324+51.80	2324+51.61	2	12	28	0.44(4)	2.1
254	2325+19.80	2324+51.61	2	12	65	0.50	0.0
255	8810+65.14	8810+65.14	2	12	22	0.44	22.4
256	8810+65.14	2324+51.61	2	12	27	6.18	3.1
257	2325+20.08	2325+19.80	2	12	14	0.44	0.0
258	8812+66.74	2325+19.80	2	12	67	3.32	44.4
259	2326+50.46	2326+40.88	2	15	26	0.44	2.1
2510	2326+40.88	2328+41.42	3	18	195	0.35	0.0
2511	8813+38.84	2326+40.88	3	18	42	0.95	43.3
2512	8813+87.11	8813+87.20	2	12	16	0.44(3)	16.3
2513	9481+97.09	8813+38.84	2	12	46	0.98	46.8
2514	2327+35.82	2327+35.90	2	12	27	0.44(3)	2.1
2515	8815+11.00	8815+10.98	2	12	8	2.16	8.1

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

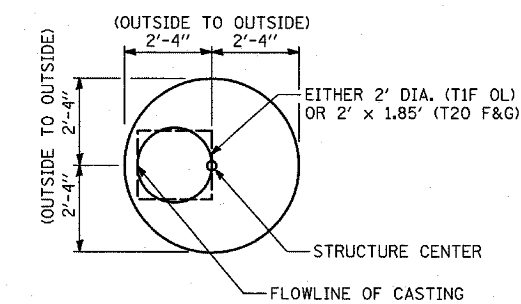
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

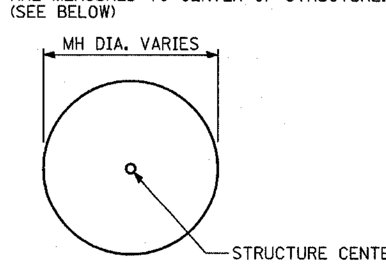
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 5 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: NSB

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	259
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
2515	8815+11.00	4.0	RT		A	4'	T20 F&G	5.70				0.45
2516	8815+11.00	18.0	LT		A	4'	T20 F&G	5.74			0.49	
2517	2328+38.74	63.0	RT		A	4'	T20 F&G	-4.08		-9.33		
2518	2328+41.42	84.1	RT	A		5'	T1F CL	-2.36	-15.27		-13.27	-9.41
2519	2328+42.42	101.8	RT		A	4'	T20 F&G	2.29		-3.38		-3.38
2520	2328+43.30	123.8	RT		A	4'	T20 F&G	1.93				-3.32
2521	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2522	8815+10.98	9.9	LT	A		4'	T1F CL	5.86	-5.88	0.28	-5.92	0.28
271	8816+12.39	8.1	RT		C	2'	T1F OL	8.67		3.42		
272	8816+08.51	8.0	LT	A		4'	T1F CL	8.28	-3.98	1.45	-4.48	1.93
273	8816+15.60	17.2	LT		A	4'	T20 F&G	7.76	1.96		1.96	
274	8817+21.71	17.0	LT		A(1)	4'	T1F OL	7.65		2.40		
275	2329+54.27	117.4	RT		A	4'	T20 F&G	-1.42				-6.67
276	2329+53.21	95.4	RT		A	4'	T20 F&G	-1.07		-6.73		-6.73
277	2330+10.63	76.3	RT		C	2'	T1F OL	-7.63		-12.48		
278	2330+24.65	63.0	RT		A	4'	T20 F&G	-6.56	-12.55		-12.55	
279	2330+65.41	110.0	RT		A	4'	T20 F&G	-5.69				-10.94
2710	2330+64.18	88.0	RT		A	4'	T20 F&G	-5.33		-11.00	-11.00	
2711	2331+89.75	100.3	RT		A	4'	T20 F&G	-9.43	-14.68			-14.68
2712	2331+87.70	75.2	RT	A		4'	T1F CL	-9.64		-15.22	-17.08	-15.22
2713	2331+94.65	63.0	RT		A	4'	T20 F&G	-8.75		-14.00		
2714	2333+14.80	68.2	RT		A	4'	T20 F&G	-10.93		-16.18		
2715	2333+15.17	90.3	RT		A	4'	T20 F&G	-11.28	-16.53			-16.53
2716	2333+66.04	61.1	RT	PLUG								-17.03
2717	2333+64.43	87.0	RT		A	4'	T20 F&G	-11.88		-17.13		-17.13
2718	2333+65.02	95.9	RT	A		4'	T1F CL	-9.91	-17.69		-17.16	-16.74
2719	2334+35.43	83.2	RT		A	4'	T20 F&G	-12.29		-17.54		
2720	2332+19.00	103.5	RT		C	2'	T1F OL	-9.32			-14.57	
2721	8816+68.57	17.0	LT		A(1)	4'	T1F OL	7.86		2.18		
2722	8817+71.71	17.0	LT		A(1)	4'	T1F OL	7.85	2.60			
2723	8818+21.71	17.0	LT		A(1)	4'	T1F OL	8.05	2.40	2.40	2.40	
2724	8818+68.21	17.0	LT		A(1)	4'	T1F OL	8.27			3.02	
2725	8818+18.34	9.6	LT	A		4'	T1F CL	8.17		2.38	-0.89	
291	2334+84.25	81.2	RT		A	4'	T20 F&G	-12.42	-17.67			
292	2334+94.24	80.9	RT		A	4'	T20 F&G	-12.44	-17.70		-17.70	
293	2335+04.23	80.5	RT		A	4'	T20 F&G	-12.44	-17.73		-17.73	
294	2335+24.91	87.6	RT		A	4'	T1F OL	-12.29			-17.54	
295	2335+14.57	88.1	RT	A		4'	T1F CL	-12.30	-17.88		-18.57	-19.07
296	2336+49.68	64.1	RT		C	2'	T20 F&G	-11.28				-16.13
311	2341+32.31	79.2	RT	A		5'	T1F CL	-8.14	-18.15	-15.14	-18.65	
312	2343+34.58	81.3	RT	A		4'	T1F CL	-6.45	-15.52	-12.03	-17.52	-12.03(N)
313	2343+67.99	74.7	RT		A	4'	T20 F&G	-5.95		-11.51		
314	8401+45.28	4.0	RT		A	4'	T20 F&G	6.18				0.93
315	8401+45.28	18.0	LT		A	4'	T20 F&G	6.22		0.87		0.87
316	2343+44.26	80.0	RT		C	2'	T1F OL	-6.35			-11.79	
317	8400+54.86	18.0	LT		A(1)	4'	T1F OL	7.16			1.91	
318	NOT USED	-	-	-	-	-	-	-	-	-	-	-
319	8400+08.88	18.0	LT		A(1)	4'	T1F OL	7.34	1.73			1.73
331	2344+83.98	81.0	RT		A	4'	T20 F&G	-5.28		-10.53		
332	8402+40.51	4.0	RT		A	4'	T20 F&G	1.98	-3.27			
333	2345+99.94	64.0	RT	PLUG						-9.73		
334	2345+14.97	92.0	RT	A		4'	T1F CL	-5.29		-10.87	-14.73	
335	8404+30.63	4.0	RT		A	4'	T20 F&G	-3.11				-8.36
336	2346+99.59	66.4	RT		A	4'	T1F OL	-3.10	-8.42			

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
2516	8815+11.00	8815+10.98	2	12	3	10.65	3.1
2517	2328+38.74	2328+41.42	2	15	19	0.44	2.1
2518	2328+41.42	2330+42.00	3	18	195	0.35	0.0
2519	2328+42.42	2328+41.42	2	12	16	37.03	2.1
2520	2328+43.30	2328+42.42	2	12	14	0.44	14.2
2521	NOT USED	-	-	-	-	-	-
2522	8815+10.98	8813+38.84	3	18	169	1.50	228.6
271	8816+12.39	8816+08.51	2	12	15	4.82	15.3
272	8816+08.51	8815+10.98	3	18	94	1.50	136.2
273	8816+15.60	8816+08.51	2	12	7	0.44	7.1
274	8817+21.71	8816+68.57	2	12	50	0.44	23.5
275	2329+54.27	2329+53.21	2	12	14	0.44	14.2
276	2329+53.21	2329+52.53	2	12	18	0.44(3)	2.1
277	2330+10.63	2330+24.65	2	12	17	0.44	4.3
278	2330+24.65	2330+41.99	2	15	21	7.23	2.1
279	2330+65.41	2330+64.18	2	12	14	0.44	14.2
2710	2330+64.18	2330+41.99	2	12	20	15.35	4.1
2711	2331+89.75	2331+87.70	2	12	20	27.15	20.3
2712	2331+87.70	2330+42.00	3	15	141	0.50	39.2
2713	2331+94.65	2331+87.70	2	15	12	10.17	2.6
2714	2333+14.80	2333+15.17	2	12	15	23.33	15.3
2715	2333+15.17	2333+65.02	2	12	47	0.44	18.3
2716	2333+66.04	2333+64.43	2	12	22	0.44	22.4
2717	2333+64.43	2333+65.02	2	12	7	0.44	2.1
2718	2333+65.02	2335+14.57	2	12	146	0.60	0.0
2719	2334+35.43	2334+35.46	2	12	9	5.18	2.1
2720	2332+19.00	2331+89.75	2	12	26	0.44	26.4
2721	8816+68.57	8816+15.60	2	12	49	0.44	49.8
2722	8817+71.71	8818+21.71	2	12	46	0.44	46.8
2723	8818+21.71	8818+18.34	2	12	3	0.44	3.1
2724	8818+68.21	8818+21.71	2	12	43	1.44	43.7
2725	8818+18.34	8816+08.51	3	12	206	1.50	300.1
291	2334+84.25	2334+94.24	2	12	6	0.44	6.1
292	2334+94.24	2335+04.23	2	12	6	0.44	6.1
293	2335+04.23	2335+14.24	2	12	6	0.44	6.1
294	2335+24.91	2335+14.57	2	12	8	4.29	0.0
295	2335+14.57	2335+14.24	2	18	5	0.60	4.3
311	2341+32.31	2340+22.49	3	24	105	0.55	0.0
312	2343+34.58	2341+32.31	2	18	198	0.32	0.0
313	2343+67.99	2343+67.99	2	15	10	0.44(3)	2.1
314	8401+45.28	8401+45.28	2	12	14	0.44	14.2
315	8401+45.28	2343+34.58	2	12	47	25.15	2.3
316	2343+44.26	2343+34.58	2	12	6	4.00	0.0
317	8400+54.86	8400+08.88	2	12	42	0.44	42.7
318	NOT USED	-	-	-	-	-	-
319	8400+08.88	2341+32.31	2	12	83	20.30	3.2
331	2344+83.98	2344+83.99	2	12	12	0.44(3)	2.1
332	8402+40.51	8403+35.05	2	12	91	3.52	12.0
333	2345+99.94	2345+99.94	2	12	19	0.44	19.3
334	2345+14.97	2343+34.58	2	15	177	0.45	0.0
335	8404+30.63	2346+37.27	2	12	59	3.29	12.6
336	2346+99.59	2347+49.48	2	12	46	0.44	46.8
337	2346+37.27	2347+81.52	2	42	141	0.15	329.9
338	8405+06.28	8405+16.10	2	12	6	0.44	6.1

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4' DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12"	30"	0.500"
24"	42"	0.625"
30"	48"	0.688"
36"	48"	0.688"

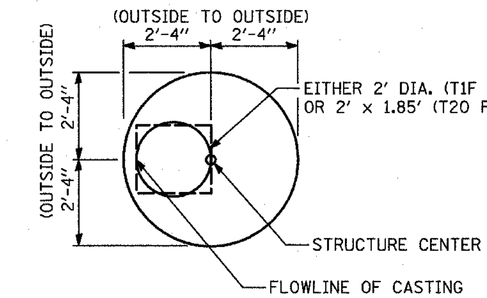
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

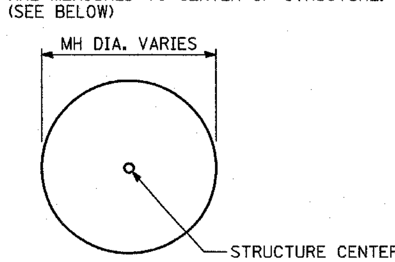
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 6 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: NSB

DATE: MARCH 18, 2005 CHECKED BY: DA

TY·LIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	260
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
			MH	CB							
337	2346+37.27	66.0 RT	A		6′	T1F CL	-3.47	-15.14	-10.30	-10.30	
338	8405+06.28	4.0 RT		A	4′	T20 F&G	-3.65	-8.90			
339	8405+16.10	18.0 LT		A	4′	T20 F&G	-3.30		-8.99		-8.99
3310	8405+16.10	4.0 RT		A	4′	T20 F&G	-3.66	-8.93	-8.93	-8.93	-8.93
3311	8405+26.28	4.0 RT		A	4′	T20 F&G	-3.65			-8.90	
3312	8403+35.05	18.0 LT		A	4′	T20 F&G	-0.86		-6.53		-6.53
3313	8403+35.05	4.0 RT		A	4′	T20 F&G	-1.22				-6.47
3314	2348+47.23	72.0 RT		A	4′	T1F OL	-2.11		-7.41		
3315	8406+44.26	4.0 RT		A	4′	T20 F&G	-2.85				-8.10
3316	2347+99.43	70.7 RT		A	4′	T1F OL	-2.20			-8.01	
3317	NOT USED	- -	-	-	-	-	-	-	-	-	-
3318	8407+44.13	4.0 RT		A	4′	T20 F&G	-2.05			-7.36	-7.36
3319	2347+49.48	69.3 RT		A	4′	T1F OL	-2.70	-8.61		-8.61	
3320	2345+99.94	87.4 RT		A	4′	T20 F&G	-4.40	-9.81			-9.81
3321	8405+74.22	4.0 RT		A	4′	T20 F&G	-3.41	-8.66			-8.66
3322	2349+44.49	74.7 RT		A	4′	T20 F&G	-1.43			-6.68	
3323	8407+28.52	11.3 RT		C	2′	T1F OL	-2.49	-7.34			
3324	2349+24.80	76.7 RT	A		5′	T1F CL	-1.33	-15.47	-8.16	-15.47	-8.16
3325	2347+81.52	75.2 RT	A		5′	T1F CL	-2.38	-15.35	-9.21	-15.35	-9.21
3325								INVERT OF PIPE 3319		-9.21	
351	2349+88.80	72.0 RT		A	4′	T20 F&G	-1.00		-6.57		
352	NOT USED	- -	-	-	-	-	-	-	-	-	-
353	8408+43.96	4.0 RT		A	4′	T20 F&G	-1.25	-6.50			
354	2350+83.30	80.0 RT	A		5′	T1F CL	-0.22	-14.66	-7.05(N)	-15.16	-7.05(S)
355	NOT USED	- -	-	-	-	-	-	-	-	-	-
356	2351+85.60	79.8 RT	A		5′	T1F CL	0.62	-13.96	-6.12	-14.46	
357	NOT USED	- -	-	-	-	-	-	-	-	-	-
358	2351+96.03	72.0 RT		A	4′	T20 F&G	0.37		-5.62		
359	2353+31.60	72.0 RT		A	4′	T20 F&G	0.95		-4.41		
3510	2351+95.79	74.7 RT		A	4′	T20 F&G	0.55			-5.63	-5.63
3511	NOT USED	- -	-	-	-	-	-	-	-	-	-
3512	2354+83.43	97.0 RT	A		5′	T1F CL	0.64	-12.75	-6.19(S)	-13.25	-6.19
3513	2354+98.03	68.6 RT		A	4′	T1F OL	0.77		-4.55		-4.55
3514	2353+31.58	74.7 RT		A	4′	T20 F&G	0.97	-4.42	-4.42		-4.42
3515	8409+29.45	30.0 RT		A	4′	T20 F&G	-1.04	-6.29			-6.29
3516	8409+95.44	31.6 RT		A	4′	T20 F&G	-0.55			-5.80	
3517	NOT USED	- -	-	-	-	-	-	-	-	-	-
3518	2353+50.00	71.7 RT		A	4′	T1F OL	1.12			-4.35	
3519	2354+19.54	70.3 RT		A	4′	T1F OL	1.03		-4.37		
3520	8412+86.41	18.0 LT		A	4′	T20 F&G	0.35	-4.90			
3521	NOT USED	- -	-	-	-	-	-	-	-	-	-
3522	NOT USED	- -	-	-	-	-	-	-	-	-	-
3523	8412+38.69	23.6 RT		A	4′	T20 F&G	-0.27	-5.52			
3524	8412+55.43	23.0 RT		A	4′	T20 F&G	-0.30	-5.58		-5.58	-5.58
3525	8412+70.23	20.1 RT		A	4′	T20 F&G	-0.28			-5.53	
3526	NOT USED	- -	-	-	-	-	-	-	-	-	-
3527	2354+98.12	91.1 RT		A	4′	T20 F&G	0.35	-5.25		-5.25	-5.25
3528	NOT USED	- -	-	-	-	-	-	-	-	-	-
3529	NOT USED	- -	-	-	-	-	-	-	-	-	-
3530	2353+30.00	86.8 RT	A		5′	T1F CL	1.03	-13.61		-13.61	-5.80
3531	2354+17.75	92.6 RT	A		5′	T1F CL	0.80	-13.40	-6.03	-13.40	-6.03
371	2356+81.75	91.5 RT	A		5′	T1F CL	0.17	-11.72	-7.58	-12.17	-7.58
372	2356+91.50	86.6 RT		A	4′	T20 F&G	-0.51			-6.22	-6.22
373	2356+93.25	64.0 RT	PLUG						-6.14		

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
339	8405+16.10	2346+95.72	2	12	34	0.44(3)	34.6
3310	8405+16.10	8405+16.10	2	12	14	0.44	14.2
3311	8405+26.28	8405+16.10	2	12	7	0.44	7.1
3312	8403+35.05	2345+14.97	2	12	17	25.53	2.1
3313	8403+35.05	8403+35.05	2	12	14	0.44	14.2
3314	2348+47.23	2348+46.61	2	12	11	0.44(5)	11.2
3315	8406+44.26	8405+74.22	2	12	67	0.84	8.8
3316	2347+99.43	2347+81.52	2	15	15	8.00	15.3
3317	NOT USED	-	-	-	-	-	-
3318	8407+44.13	2349+24.80	2	12	26	3.09	26.4
3319	2347+49.48	2347+81.52	2	12	29	2.07	29.5
3320	2345+99.94	2346+37.27	2	12	39	0.44	39.7
3321	8405+74.22	2347+81.52	2	12	46	1.20	46.8
3322	2349+44.49	2349+24.80	2	12	16	4.58	16.3
3323	8407+28.52	8407+44.13	2	12	16	0.44	11.0
3324	2349+24.80	2348+98.80	3	42	19	0.20	43.6
3325	2347+81.52	2348+98.80	3	42	110	0.15	301.6
351	2349+88.80	2349+88.80	2	12	13	0.44(5)	4.1
352	NOT USED	-	-	-	-	-	-
353	8408+43.96	2350+83.30	2	12	61	0.90	13.1
354	2350+83.30	2348+98.80	3	42	154	0.20	354.0
355	NOT USED	-	-	-	-	-	-
356	2351+85.60	2350+83.30	3	36	98	0.20	223.0
357	NOT USED	-	-	-	-	-	-
358	2351+96.03	2351+95.79	2	12	3	0.44	3.1
359	2353+31.60	2353+31.58	2	12	3	0.44	3.1
3510	2351+95.79	2351+85.60	2	12	7	8.12	7.1
3511	NOT USED	-	-	-	-	-	-
3512	2354+83.43	2354+17.75	3	30	61	0.25	122.8
3513	2354+98.03	2354+98.12	2	12	19	3.69	19.3
3514	2353+31.58	2353+30.00	2	12	6	22.99	6.1
3515	8409+29.45	2350+83.30	2	12	57	1.33	12.2
3516	8409+95.44	8409+29.45	2	12	62	0.79	8.2
3517	NOT USED	-	-	-	-	-	-
3518	2353+50.00	2353+31.58	2	12	16	0.44	16.3
3519	2354+19.54	2354+17.75	2	12	18	9.22	18.3
3520	8412+86.41	2354+83.43	2	12	13	9.92	13.2
3521	NOT USED	-	-	-	-	-	-
3522	NOT USED	-	-	-	-	-	-
3523	8412+38.69	8412+55.43	2	12	13	0.44	13.2
3524	8412+55.43	2354+17.75	2	12	44	1.02	44.7
3525	8412+70.23	8412+55.43	2	12	12	0.44	12.2
3526	2354+98.03	2354+95.81	2	12	6	0.44	6.1
3527	2354+98.12	2354+83.43	2	12	12	7.83	12.2
3528	NOT USED	-	-	-	-	-	-
3529	NOT USED	-	-	-	-	-	-
3530	2353+30.00	2351+85.60	3	30	140	0.25	299.5
3531	2354+17.75	2353+30.00	3	30	83	0.25	174.0
371	2356+81.75	2356+04.49	3	27	73	0.30	113.2
372	2356+91.50	2356+81.75	2	15	8	16.25	8.1
373	2356+93.25	2356+91.50	2	15	19	0.44	19.3
374	2358+88.06	2357+94.60	2	18	90	0.40	79.9
375	2357+94.68	2357+94.60	2	12	5	0.44	2.1
376	2358+81.55	2358+88.06	2	15	7	2.62	3.2

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

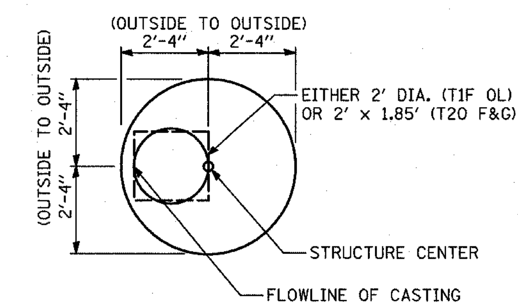
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

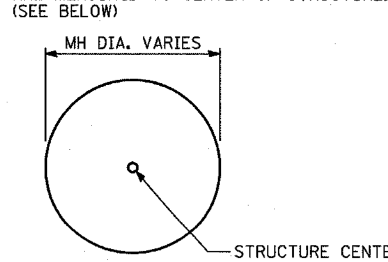
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 7 OF 8

REVISIONS	
NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE

DATE: MARCH 18, 2005

DRAWN BY: NSB

CHECKED BY: DA

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	260A
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
				MH	CB							
374	2358+88.06	85.9	RT	A		4′	T1F CL	-1.33	-8.23	-8.23	-10.92	-8.23
375	2357+94.68	82.7	RT		A	4′	T20 F&G	-1.35		-6.78		
376	2358+81.55	79.3	RT		A	4′	T20 F&G	-2.19		-8.05		
377	NOT USED	-	-	-	-	-	-	-	-	-	-	-
378	8417+18.67	18.0	LT		A(1)	4′	T1F OL	7.06				1.81
379	8413+53.48	4.0	RT		A	4′	T20 F&G	0.23				-5.02
3710	8414+48.70	4.0	RT		A	4′	T20 F&G	1.39				-3.86
3711	8414+49.70	18.0	LT		A	4′	T20 F&G	1.77		-3.93	-3.93	
3712	2357+94.60	89.0	RT	A		4′	T1F CL	-0.44	-11.28	-6.80	-11.28	-6.80
3713	2355+40.83	91.7	RT		A	4′	T20 F&G	0.19			-5.08	
3714	2356+00.01	89.7	RT		A	4′	T20 F&G	-0.05		-5.33		
3715	8415+46.76	4.0	RT		A	4′	T20 F&G	3.60				-1.65
3716	8416+45.04	4.0	RT		A	4′	T20 F&G	6.54				1.29
3717	8416+45.04	18.0	LT		A	4′	T20 F&G	6.58		1.23		1.23
3718	2359+44.72	76.9	RT		A	4′	T20 F&G	-2.78			-8.18	
3719	NOT USED	-	-	-	-	-	-	-	-	-	-	-
3720	NOT USED	-	-	-	-	-	-	-	-	-	-	-
3721	2356+04.49	94.1	RT	A		5′	T1F CL	0.44	-12.39	-6.39	-12.39	-6.39

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
377	NOT USED	-	-	-	-	-	-
378	8417+18.67	2358+88.06	2	12	51	19.69	2.3
379	8413+53.48	2355+33.78	2	12	28	0.44(3)	25.4
3710	8414+48.70	8414+49.70	2	12	15	0.44	15.3
3711	8414+49.70	2356+04.49	2	12	27	9.14	4.1
3712	2357+94.60	2356+81.75	3	18	109	0.40	123.6
3713	2355+40.83	2354+98.12	2	12	39	0.44	39.7
3714	2356+00.01	2356+04.49	2	12	4	26.58	4.1
3715	8415+46.76	2356+81.75	2	12	60	9.89	33.6
3716	8416+45.04	8416+45.04	2	12	14	0.44	14.2
3717	8416+45.04	2357+94.60	2	12	49	16.39	4.1
3718	2359+44.72	2359+31.43	2	12	16	0.44	4.5
3719	NOT USED	-	-	-	-	-	-
3720	2358+88.98	2358+88.06	2	15	13	0.44	13.2
3721	2356+04.49	2354+83.43	3	27	117	0.30	205.9

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

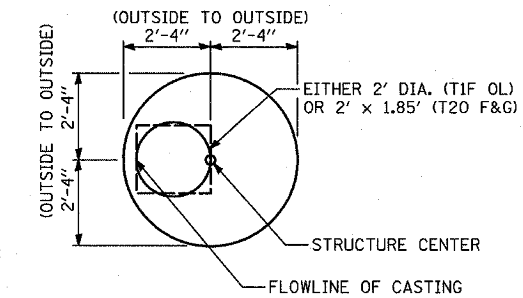
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

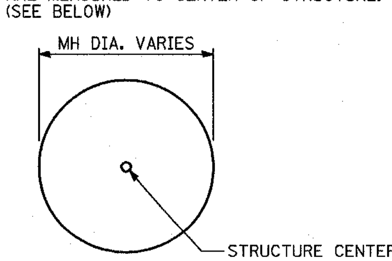
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 8 OF 8

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE

DRAWN BY: NSB

DATE: MARCH 18, 2005

CHECKED BY: DA

TY·LIN INTERNATIONAL

COMBINED SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.	DRAIN CONN. (FT)
			MH	CB								
C1	2023+30.08	206.2 RT		A(1/2 TRAP)	4′	T1F OL	16.29			11.50		5.34
C2	2024+82.23	212.6 RT		A(1/2 TRAP)	4′	T1F OL	16.18		11.39			5.34
C3	2210+55.82	119.8 RT		A(1/2 TRAP)	4′	T1F OL	16.23		11.44			5.34
C4	2262+00.40	118.8 RT		A(1/2 TRAP)	4′	T1F OL	7.68		2.89			5.34
C5	2265+10.75	131.0 RT		A(1/2 TRAP)	4′	T1F OL	7.73		2.94			5.34
C6	2317+69.58	126.4 RT		A(1/2 TRAP)	4′	T1F OL	8.30		3.51			5.34
C7	2322+16.16	148.5 RT		A(1/2 TRAP)	4′	T1F OL	9.09		4.30			5.34
C8	2323+52.38	156.6 RT		A(1/2 TRAP)	4′	T1F OL	8.97		4.18			5.34
C9	2324+90.05	164.7 RT		A(1/2 TRAP)	4′	T1F OL	8.92		4.13			5.34
C10	2328+04.40	179.6 RT		A(1/2 TRAP)	4′	T1F OL	8.59		3.80			5.34
C11	2340+42.97	159.4 RT		A(1/2 TRAP)	4′	T1F OL	7.61		2.82			5.34
C12	2326+19.73	171.9 RT		A(1/2 TRAP)	4′	T1F OL	8.81		4.02			
C13	2246+88.19	129.6 RT		A(1/2 TRAP)	4′	T1F OL	7.92		3.13			5.34
C14	NOT USED											
C15	2360+68.98	157.2 RT		A(1/2 TRAP)	4′	T1F OL	7.44		2.65			
C16	2320+95.2	141.5 RT		A(1/2 TRAP)	4′	T1F OL	9.03		4.24			5.34

MANHOLE RECONSTRUCTION SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE DATA		EXISTING RIM EL	PROPOSED RIM EL
			MH TA	DROP MH		
118	2239+80.04	82.12 RT		10′ DIA	3.81	0.38
122	2264+77.61	73.76 RT		6′ DIA	-0.42	-2.67
130	2316+16.41	78.30 RT		7′ DIA	-0.46	-3.71
151	2348+84.41	142.61 RT		8′ DIA	6.73	4.29

COMBINED SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE (%)
C12	2326+19.73	2326+19.10	ESVCP	8	7	0.44
C15	2360+68.98	2360+79.93	DIP TY-2	8	14	0.44

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4′ DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

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(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

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SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

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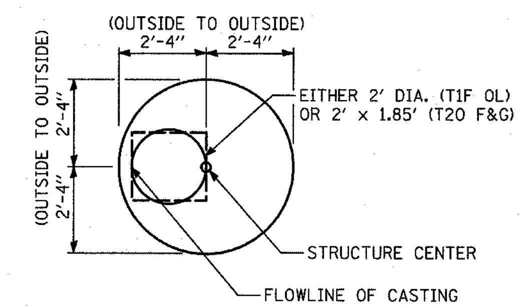
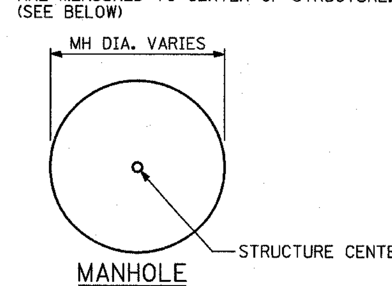


CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 1 OF 1

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

COMBINED SEWER SCHEDULE AND MANHOLE RECONSTRUCTION SCHEDULE

SCALE: NONE DRAWN BY: DM

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	262

STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8

62694

DROP MANHOLE SCHEDULE

STRUCT NUMBER	TYPE	LOCATION	STATION	OFFSET	DIMENSIONS										ELEVATIONS (FT)						
					A (FT)	B (FT)	C (FT)	D1 (IN)	D2 (IN)	D3 (IN)	D4 (IN)	D5 (IN)	E (FT)	F (FT)	1	2	3	4	5	G	H
3A1	2	-	206+22.98	32.9 RT	7.00	3.00	0.00	36	30	18	-	-	2.00	8.30	-13.38	-10.38	-9.38	-	-	-15.38	2.42
3A3	2	-	104+31.14	67.9 LT	6.00	3.56	0.56	36	30	18	-	-	2.00	11.27	-13.35	-9.79	-9.35	-	-	-15.35	5.42
3A6	1	-	205+18.00	64.5 LT	8.00	5.35	1.85	42	42	-	-	-	2.00	11.00	-20.53	-15.18	-	-	-	-22.53	-0.68
3C1	2	-	216+58.04	51.9 LT	7.00	4.38	1.38	36	36	15	-	-	2.00	3.20	-15.85	-11.47	-9.97	-	-	-17.75	-3.52
3C4	1	-	216+38.39	30.8 RT	7.00	5.70	2.70	36	36	-	-	-	2.00	13.86	-22.69	-16.99	-	-	-	-24.69	1.87
185	3	-	8704+09.12	8.0 LT	6.00	-	-	24	18	-	12	12	1.00	3.07	-13.30	-11.30	0.00	-2.33	-1.27	-15.30	2.80

ABANDONED AND FILLED (CLSM) SEWERS SCHEDULE

UPSTREAM STATION	OFFSET	DIA. (IN)	LENGTH (FT)	CLSM (CY)
8800+77.00	17.9 LT	8	43.35	0.56
8802+63.03	16.9 LT	10	5.15	0.10
8804+02.90	4.4 RT	10	27.24	0.55
8805+21.79	4.2 RT	10	35.00	0.71
8806+48.06	3.7 RT	10	39.60	0.80
8761+49.04	16.6 LT	12	56.48	1.64
8763+14.87	4.4 RT	12	26.73	0.78
8766+49.52	21.8 LT	10	20.74	0.42
8767+65.18	5.2 LT	10	11.47	0.23
8768+99.26	3.7 LT	12	69.60	2.02
8769+12.79	10.9 LT	12	17.00	0.49
8770+27.61	6.9 LT	12	128.74	3.74
8771+72.05	8.4 RT	15	14.34	0.65
8742+84.76	19.6 LT	8	29.48	0.38
8744+70.73	6.4 LT	8	17.30	0.22
8748+20.78	20.3 LT	10	13.89	0.28
8748+36.90	20.6 LT	10	16.12	0.33
2219+08.32	61.1 RT	10	8.00	0.16
8749+40.63	22.2 LT	12	9.75	0.28
8726+86.17	2.6 LT	10	26.78	0.54
8728+97.52	19.8 LT	10	10.82	0.22
8701+75.19	13.5 LT	12	15.40	0.45
8704+93.57	9.3 LT	10	26.53	0.54
8706+70.17	16.8 LT	10	12.69	0.26
8706+40.27	15.8 LT	10	12.25	0.25
8706+55.00	16.4 LT	10	11.72	0.24
8707+74.50	18.8 LT	10	6.15	0.12
8707+85.01	18.8 LT	10	10.56	0.21
9470+12.79	20.8 RT	10	155.92	3.15
9470+02.14	23.0 RT	10	10.90	0.22
9471+68.06	8.6 RT	10	139.73	2.82
2335+04.47	59.8 RT	12	15.40	0.45
2334+91.29	59.9 RT	12	13.18	0.38
2335+19.87	59.9 RT	12	12.14	0.35
2335+14.24	70.7 RT	12	8.31	0.24
2343+90.32	78.8 RT	10	28.15	0.57
2348+73.00	75.9 RT	12	80.10	2.33
2348+99.53	72.5 RT	10	10.40	0.21
2348+89.22	73.8 RT	10	16.35	0.33
9407+01.79	9.5 RT	12	17.30	0.50
9412+34.01	12.8 RT	10	14.26	0.29
9412+48.04	15.3 RT	10	16.02	0.32

ABANDONED AND FILLED (CLSM) SEWERS SCHEDULE

UPSTREAM STATION	OFFSET	DIA. (IN)	LENGTH (FT)	CLSM (CY)
9412+63.78	18.3 RT	10	17.34	0.35
8412+95.26	9.0 LT	12	58.87	1.71
2355+16.99	67.1 RT	18	191.51	12.53
8414+62.89	36.7 LT	10	23.84	0.48
8414+65.27	10.5 LT	10	10.19	0.21
2359+44.72	71.8 RT	12	10.64	0.31
2359+34.19	72.0 RT	12	8.47	0.25
2355+16.99	67.1 RT	12	21.83	0.63
2359+00.90	72.0 RT	10	11.98	0.24

NOTES:

A QUANTITY OF TBF HAS BEEN ESTIMATED FOR STORM SEWER REMOVALS. THE LIMITS OF THE TBF WILL BE AS DESCRIBED IN SECTION 208. MAXIMUM TRENCH WIDTH WILL BE 12" + OD OF PIPE. UPPER LIMIT OF TRENCH WILL BE BOTTOM OF PROPOSED SUBBASE. FOR ESTIMATING PURPOSES, 15 CY OF TBF HAS BEEN INCLUDED ON THE SOQ FOR SS REMOVALS.

TY·LIN INTERNATIONAL

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4' DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)•	CASING WALL THICKNESS
12"	30"	0.500"
24"	42"	0.625"
30"	48"	0.688"
36"	48"	0.688"

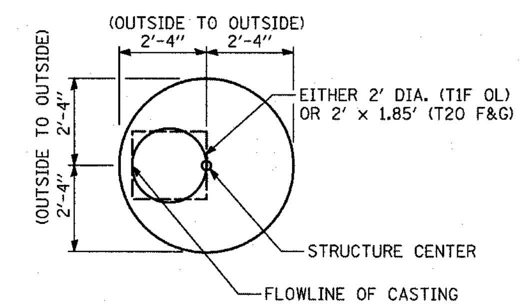
•ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

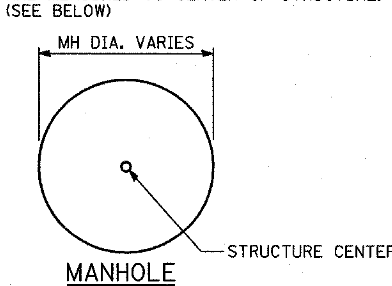
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 1 OF 1

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DROP MANHOLE SCHEDULE AND ABANDONED AND FILLED SEWERS SCHEDULE

SCALE: NONE | DRAWN BY: DM

DATE: MARCH 18, 2005 | CHECKED BY: DA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	263
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

UNDERDRAIN SCHEDULE

UNDERDRAIN PIPE LIMITS	OFFSET (FT)	PIPE UNDERDRAIN 6" (FT)	CONNECTING STRUCTURE NUMBER	PIPE UNDERDRAIN 6" (SPECIAL) (FT)
8798+19.84 - 8798+59.00	4.00 LT - 6.45 LT	39.2	11	2.0
8798+59.00 - 8799+33.96	6.45 LT - 12.62 LT	75.0	12	2.0
8799+33.96 - 8801+30.19	12.62 LT - 18.00 LT	196.2	15	2.0
8801+30.19 - 8803+74.00	18.00 LT - 18.00 LT	243.8	22	2.0
8803+74.00 - 201+13.46	18.00 LT - 6.50 RT	248.8	26	8.0
0201+13.46 - 8807+59.00	6.50 RT - 4.00 RT	139.0	27	16.0
8808+60.90 - 8807+59.00	16.00 LT - 4.00 RT	101.9	27	16.0
8800+40.78 - 8801+28.73	4.00 RT - 4.00 RT	87.9	14	2.0
8801+28.73 - 8803+74.00	4.00 RT - 4.00 RT	245.3	21	2.0
8803+78.10 - 8805+00.00	2.35 LT - 2.00 RT	121.7	2119	2.0
8805+03.22 8806+20.12	2.35 LT 0.37 RT	113.7	25	2.0
8806+22.00 - 8807+59.00	4.00 RT - 4.00 RT	137.0	27	2.0
8808+60.90 - 8807+59.00	4.00 RT - 4.00 RT	101.9	27	2.0
8758+81.50 - 0216+58.04	0.00 CL - 51.90 RT	28.9	C1	2.0
216+58.04 - 8760+88.01	51.90 RT - 18.00 LT	177.6	52	2.0
8760+88.01 - 8763+31.29	18.00 LT - 18.00 LT	243.3	55	2.0
8763+31.29 - 8765+28.14	18.00 LT - 18.00 LT	196.8	63	2.0
8766+14.67 - 8766+48.14	13.41 LT - 13.41 LT	33.5	66	2.0
8769+46.59 - 8766+48.14	16.00 LT - 18.00 LT	298.4	66	2.0
8760+25.19 - 8760+88.00	4.00 RT - 4.00 RT	62.8	51	2.0
8760+88.00 - 8763+31.37	4.00 RT - 4.00 RT	243.4	54	2.0
8763+31.37 - 8765+28.14	4.00 RT - 4.00 RT	196.8	62	2.0
8766+14.98 - 8766+53.02	2.11 LT - 2.11 LT	38.0	68	2.0
8768+06.15 - 8766+53.02	4.00 RT - 4.00 RT	153.1	67	2.0
8769+12.86 - 8768+06.15	4.00 RT - 4.00 RT	106.7	613	2.0
8769+46.30 - 8769+12.86	4.00 RT - 4.00 RT	33.4	614	2.0
8766+43.00 - 8766+43.00	18.00 LT - 4.00 RT	16.0	68	4.0
8766+53.02 - 8766+53.02	18.00 LT - 4.00 RT	16.0	67	4.0
8739+58.65 - 8739+87.68	18.00 LT - 18.00 LT	29.0	81	2.0
8739+87.68 - 8740+82.16	18.00 LT - 18.00 LT	94.5	82	2.0
8740+82.16 - 8741+71.82	18.00 LT - 18.00 LT	89.7	83	2.0
8741+71.82 - 8743+06.46	18.00 LT - 18.00 LT	134.6	93	2.0
8743+06.46 - 8745+58.94	18.00 LT - 18.00 LT	252.5	94	2.0
8745+58.94 - 8748+26.21	18.00 LT - 18.00 LT	267.3	101	2.0
8752+65.61 - 8748+26.21	16.00 LT - 18.00 LT	439.4	101	2.0
8741+17.16 - 8741+69.19	4.00 RT - 4.00 RT	52.0	85	2.0
8741+69.19 - 8742+67.53	4.00 RT - 4.00 RT	98.3	92	2.0
8742+67.53 - 8745+12.63	4.00 RT - 4.00 RT	245.1	99	2.0
8745+12.63 - 8746+67.73	4.00 RT - 4.00 RT	155.1	98	2.0
8746+67.73 8746+67.73	5.97 RT 4.50 RT	0.0	98	1.5
8746+67.73 - 8747+54.30	4.00 RT - 4.00 RT	86.6	912	2.0
8747+54.30 - 8748+28.67	4.00 RT - 4.00 RT	74.4	102	2.0
8749+08.59 - 8748+48.67	4.00 RT - 4.00 RT	59.9	103	2.0
8749+90.64 - 8749+08.59	4.00 RT - 4.00 RT	82.1	105	2.0
8751+86.25 - 8749+90.60	4.00 RT - 4.00 RT	195.7	106	2.0
8752+56.99 - 8751+86.25	4.00 RT - 4.00 RT	70.7	108	2.0
2214+00.00 - 2214+00.00	89.88 RT - 89.88 RT		910	3.0
8745+58.94 - 8745+58.94	18.00 LT - 18.00 LT		94	3.0
8748+28.67 - 8748+28.67	18.00 LT - 4.00 RT	16.0	102	4.0
8748+38.67 - 8748+38.67	18.00 LT - 4.00 RT	16.0	104	4.0
8748+33.76 8748+38.67	5.15 RT 2.00 RT		104	4.0
8748+43.58 8748+38.67	5.15 RT 2.00 RT		104	4.0
8748+48.67 - 8748+48.67	18.00 LT - 4.00 RT	16.0	103	4.0
2214+01.49 2214+03.50	91.54 RT 62.78 RT		EX	31.7

UNDERDRAIN SCHEDULE (CONT.)

UNDERDRAIN PIPE LIMITS	OFFSET (FT)	PIPE UNDERDRAIN 6" (FT)	CONNECTING STRUCTURE NUMBER	PIPE UNDERDRAIN 6" (SPECIAL) (FT)
2220+76.76 2221+12.16	114.50 RT 95.48 RT		107	40.2
2227+40.44 2227+43.44	114.74 RT 86.30 RT		117	31.4
2231+85.64 2231+62.15	111.33 RT 77.45 RT			41.2
8723+07.70 - 8723+98.56	0.98 RT - 33.56 RT	98.3	144	2.0
8724+71.71 - 8724+16.47	32.53 RT - 36.21 RT	53.4	145	2.0
8724+71.71 - 8726+12.90	32.53 RT - 25.54 RT	139.5	1415	2.0
8726+68.80 - 8726+37.16	20.42 RT - 22.71 RT	29.9	1416	2.0
8729+66.10 - 8729+56.03	6.44 RT - 4.00 RT		157	12.0
8729+56.03 - 8727+69.13	4.00 RT - 4.00 RT	186.9	152	2.0
8730+15.93 - 8729+56.03	4.00 RT - 4.00 RT	59.9	157	2.0
8731+85.89 - 8731+15.41	19.60 LT - 18.00 LT	70.5	1510	2.0
8731+05.41 - 8730+64.01	18.00 LT - 18.00 LT	41.4	1512	2.0
8730+64.01 - 8730+32.95	18.00 LT - 18.00 LT	31.1	1513	2.0
8730+32.95 - 8729+98.85	18.00 LT - 18.00 LT	34.1	1515	2.0
8729+98.85 - 8729+55.93	18.00 LT - 18.00 LT	42.9	156	2.0
8729+55.93 - 8727+64.85	18.00 LT - 18.00 LT	191.1	151	2.0
8726+74.98 - 8727+61.03	14.11 LT - 14.09 LT	86.1	1413	2.0
8726+17.15 - 8726+17.15	16.00 LT - 21.11 LT	37.1	1413	2.0
8726+27.33 - 8726+27.33	16.00 LT - 20.00 RT	36.0	143	16.0
8726+36.19 - 8726+36.19	16.00 LT - 19.34 RT	35.3	143	2.0
8725+56.32 - 8726+37.13	13.95 LT - 15.06 RT	78.1	1410	2.0
8726+90.87 - 8727+67.20	15.86 RT - 1.23 RT	76.6	149	2.0
8769+46.25 - 8769+14.95	2.00 LT - 0.60 RT	30.5	1414	2.0
2239+37.92 2239+61.72	74.49 RT 74.49 RT		138	26.8
2243+66.70 2243+52.84	126.00 RT 121.73 RT		144	14.4
2249+03.21 2248+93.47	124.45 RT 120.36 RT		157	9.0
2252+23.20 2252+20.20	90.05 RT 79.59 RT		155	16.5
8696+83.44 - 8699+03.57	10.96 LT - 12.71 LT	220.1	C4	2.0
8699+03.57 - 8699+63.62	12.71 LT - 16.00 LT	60.1	171	2.0
8699+63.62 - 8700+61.63	16.00 LT - 18.00 LT	98.0	172	2.0
8700+61.63 - 8701+21.55	18.00 LT - 18.00 LT	59.9	174	2.0
8701+21.55 - 8701+59.21	18.00 LT - 18.00 LT	37.7	175	2.0
8701+59.21 - 8702+19.11	18.00 LT - 18.00 LT	59.9	182	2.0
8702+19.11 - 8704+02.36	18.00 LT - 18.00 LT	183.3	183	2.0
8704+02.36 - 8705+38.33	18.00 LT - 18.00 LT	136.0	1810	2.0
8709+66.33 - 8705+38.33	16.00 LT - 18.00 LT	428.0	1810	2.0
8701+50.15 - 8702+16.24	4.00 RT - 4.00 RT	66.1	181	2.0
8702+16.24 - 8704+48.37	4.00 RT - 4.00 RT	232.1	184	2.0
8704+48.37 - 8705+28.39	4.00 RT - 4.00 RT	80.0	188	2.0
8705+28.39 - 8705+28.39	4.00 RT - 4.00 RT		188	3.0
8705+28.39 - 8705+28.39	4.00 RT - 4.00 RT		188	3.0
2270+12.42 - 2270+12.42	99.20 RT - 99.20 RT		1821	5.0
8706+00.00 - 8705+48.33	4.00 RT - 4.00 RT	51.7	1816	2.0
8706+66.31 - 8706+00.00	4.00 RT - 4.00 RT	66.3	1811	2.0
2270+68.14 - 8706+66.31	91.60 RT - 4.00 RT	106.0	1814	2.0
8708+70.96 - 2270+68.14	4.00 RT - 91.60 RT	98.6	1815	2.0
8709+66.33 - 8708+70.96	4.00 RT - 4.00 RT	95.4	191	2.0
8705+28.39 - 8705+28.39	16.00 LT - 4.00 RT	16.0	188	4.0
8705+38.39 - 8705+38.39	16.00 LT - 4.00 RT	16.0	189	4.0
8705+48.39 - 8705+48.39	16.00 LT - 4.00 RT	16.0	1816	4.0
8704+02.36 - 8704+02.36	18.00 LT - 18.00 LT		183	3.0
2261+25.57 2261+60.75	117.73 RT 61.28 RT			67.0
2256+73.34 2256+73.35	88.55 RT 84.08 RT		166	4.5
2268+02.33 2268+22.04	107.13 RT 102.90 RT		188	23.0

SHEET 1 OF 3

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

UNDERDRAIN SCHEDULE

SCALE: NONE DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	264
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694

UNDERDRAIN SCHEDULE

UNDERDRAIN PIPE LIMITS	OFFSET (FT)	PIPE UNDERDRAIN 6" (FT)	CONNECTING STRUCTURE NUMBER	PIPE UNDERDRAIN 6" (SPECIAL) (FT)
1268+10.55 1268+08.06	167.02 RT 165.46 RT		1821	3.0
8398+16.95 - 8398+60.25	0.00 CL - 4.30 LT	43.3	C11	2.0
8398+60.25 - 8400+08.88	4.30 LT - 18.00 LT	148.6	319	2.0
8400+08.88 - 8400+54.86	18.00 LT - 18.00 LT	46.0	317	2.0
8400+54.86 - 8401+45.28	18.00 LT - 18.00 LT	90.4	315	2.0
8401+45.28 - 8403+35.05	18.00 LT - 18.00 LT	189.8	3312	2.0
8403+35.05 - 8405+16.10	18.00 LT - 18.00 LT	181.0	339	2.0
8405+58.78 - 8405+16.10	18.00 LT - 18.00 LT	42.7	339	2.0
8400+85.28 - 8401+45.28	4.00 RT - 4.00 RT	60.0	314	2.0
8401+45.28 - 8402+40.51	4.00 RT - 4.00 RT	95.2	332	2.0
8402+40.51 - 8403+35.05	4.00 RT - 4.00 RT	94.5	3313	2.0
8403+35.05 - 8404+30.63	4.00 RT - 4.00 RT	95.6	335	2.0
8404+30.63 - 8405+06.28	4.00 RT - 4.00 RT	75.7	338	2.0
8405+74.22 - 8405+26.28	4.00 RT - 4.00 RT	47.9	3311	2.0
8406+44.26 - 8405+74.22	4.00 RT - 4.00 RT	70.0	3321	2.0
8407+44.13 - 8406+44.26	4.00 RT - 4.00 RT	99.9	3315	2.0
8408+43.96 - 8407+44.13	4.00 RT - 4.00 RT	99.8	3318	2.0
8409+29.45 - 8408+43.96	29.67 RT - 4.00 RT	85.5	353	2.0
8409+95.44 - 8409+29.45	31.63 RT - 29.67 RT	66.0	3515	2.0
8410+70.00 - 8409+95.44	29.15 RT - 31.63 RT	74.6	3516	2.0
8410+70.00 - 8412+36.20	26.11 RT - 21.12 RT	164.0	3523	2.0
8413+53.48 - 8412+72.56	4.00 RT - 17.16 RT	77.4	3525	2.0
8414+48.70 - 8413+53.48	4.00 RT - 4.00 RT	95.2	379	2.0
8415+46.76 - 8414+48.70	4.00 RT - 4.00 RT	98.1	3710	2.0
8416+45.04 - 8415+46.76	4.00 RT - 4.00 RT	98.3	3715	2.0
8417+05.04 - 8416+45.04	4.00 RT - 4.00 RT	60.0	3716	2.0
8420+28.97 - 8418+90.78	0.00 CL - 6.46 LT	138.2	C15	2.0
8418+90.78 - 8417+18.67	6.46 LT - 18.00 LT	172.1	378	2.0
8417+18.67 - 8416+45.04	18.00 LT - 18.00 LT	73.6	3717	2.0
8416+45.04 - 8414+49.70	18.00 LT - 18.00 LT	195.3	3711	2.0
8414+49.70 - 8412+86.41	18.00 LT - 18.00 LT	163.3	3520	2.0
8412+54.45 - 8412+86.41	18.00 LT - 18.00 LT	32.0	3520	2.0
2345+80.67 - 2345+99.94	86.30 RT - 87.40 RT	19.3	3320	2.0
2347+33.06 - 2345+99.94	94.60 RT - 87.40 RT	133.1	3320	2.0
2345+81.73 - 2345+99.94	66.30 RT - 87.40 RT	18.2	3320	20.0
2348+40.15 - 2345+99.94	82.50 RT - 87.40 RT	240.2	3320	20.0
2353+34.43 - 2356+91.50	80.70 RT - 86.60 RT	357.1	372	20.0
2354+41.29 - 2354+98.12	95.10 RT - 91.40 RT	56.8	3527	2.0
2355+00.78 - 2355+40.83	93.10 RT - 91.70 RT	40.0	3713	2.0
2355+40.83 - 2356+00.01	91.70 RT - 89.70 RT	59.2	3714	2.0
2356+00.01 - 2356+91.50	89.70 RT - 86.60 RT	91.5	372	2.0
8405+06.28 - 8405+06.28	16.00 LT - 4.00 RT	16.0	338	4.0
8405+16.10 - 8405+16.10	16.00 LT - 4.00 RT	16.0	3310	4.0
8405+16.10 8405+26.28	5.00 RT 4.50 RT		3310	1.0
8405+26.28 - 8405+26.28	16.00 LT - 4.00 RT	16.0	3311	4.0
8412+42.70 - 8412+40.56	40.87 LT - 19.48 RT	58.1	3523	4.0
8412+59.01 - 8412+57.29	16.00 LT - 19.02 RT	33.0	3524	4.0
8412+73.39 - 8412+71.60	16.00 LT - 16.03 RT	30.3	3525	4.0
2351+01.18 2351+09.00	146.89 RT 136.86 RT		3515	18.7
2354+31.18 2354+35.11	151.00 RT 137.87 RT		3523	13.7
2234+51.89 - 2234+51.89	77.00 RT - 77.00 RT		121	3.0
2234+51.89 - 2234+51.89	77.00 RT - 77.00 RT		121	3.0
2233+92.12 2233+92.12	81.93 RT 79.23 RT		121	2.2
8800+38.53 - 8801+19.47	0.00 CL - 6.60 LT	80.9	2110	2.0

UNDERDRAIN SCHEDULE (CONT.)

UNDERDRAIN PIPE LIMITS	OFFSET (FT)	PIPE UNDERDRAIN 6" (FT)	CONNECTING STRUCTURE NUMBER	PIPE UNDERDRAIN 6" (SPECIAL) (FT)
8801+19.47 - 8801+56.14	6.60 LT - 11.50 LT	36.7	2111	2.0
8801+56.14 - 8801+92.81	11.50 LT - 15.20 LT	36.7	211	2.0
8801+92.81 - 8802+43.26	15.20 LT - 18.50 LT	50.4	2112	2.0
8802+43.26 - 8802+93.67	18.50 LT - 18.70 LT	50.4	2113	2.0
8802+93.67 - 8802+93.67	18.70 LT - 18.70 LT		2113	3.0
8806+96.59 - 8806+96.59	18.00 LT - 18.00 LT		239	3.0
8802+93.67 - 8803+44.42	18.70 LT - 18.00 LT	50.8	212	2.0
8807+40.15 - 2318+40.88	41.10 LT - 87.40 RT	196.0	231	18.0
8805+70.06 - 8806+55.11	4.00 RT - 4.00 RT	85.0	2328	2.0
8806+55.11 - 8807+30.15	4.00 RT - 4.00 RT	75.0	2314	2.0
8807+20.00 - 8807+30.15	8.00 RT - 4.00 RT		2314	15.0
8807+25.00 - 8807+30.15	7.63 RT - 4.00 RT		2314	6.0
8811+48.65 - 8811+48.65	13.47 RT - 13.47 RT		2521	3.0
8807+23.48 - 8806+96.59	18.60 LT - 18.00 LT	26.9	239	2.0
8808+07.37 - 8807+50.15	4.00 RT - 4.00 RT	57.2	2315	2.0
8808+74.59 - 8808+07.37	4.00 RT - 4.00 RT	67.2	2330	2.0
8809+53.99 - 8808+74.59	4.00 RT - 4.00 RT	79.4	2319	2.0
8810+33.38 - 8809+53.99	4.00 RT - 4.00 RT	79.4	2331	2.0
8816+68.57 - 8816+15.60	17.00 LT - 17.20 LT	53.0	273	2.0
8817+21.71 - 8816+68.57	17.00 LT - 17.00 LT	53.1	2721	2.0
8817+71.71 - 8817+21.71	17.00 LT - 17.00 LT	50.0	274	2.0
8818+21.71 - 8817+71.71	17.00 LT - 17.00 LT	50.0	2722	2.0
8818+68.21 - 8818+21.71	17.00 LT - 17.00 LT	46.5	2723	2.0
8803+44.42 - 8804+20.00	18.00 LT - 18.00 LT	75.6	217	2.0
8804+20.00 - 8805+70.00	18.00 LT - 18.00 LT	150.0	234	2.0
8805+70.00 - 8806+96.59	18.00 LT - 18.00 LT	126.6	239	2.0
8806+96.59 - 8807+23.65	18.00 LT - 20.00 LT	27.1	2312	2.0
8807+30.15 - 8807+30.15	42.00 LT - 4.00 RT	46.0	2314	4.0
8807+40.15 - 8807+40.15	42.00 LT - 4.00 RT	46.0	2316	4.0
8807+50.15 - 8807+50.15	42.00 LT - 4.00 RT	46.0	2315	4.0
8807+23.65 - 2319+26.93	20.00 LT - 95.00 RT	98.0	238	2.0
2319+26.93 - 2318+40.88	95.00 RT - 87.40 RT	86.0	231	2.0
8803+59.99 - 8804+20.00	2.60 RT - 2.80 RT	60.0	218	2.0
8804+20.00 - 8805+70.06	2.80 RT - 4.00 RT	150.1	233	2.0
8810+33.38 - 8808+74.59	26.00 LT - 33.70 LT	158.8	2320	2.0
8808+74.59 - 8807+40.15	33.70 LT - 41.10 LT	134.4	2313	2.0
8810+65.14 - 8810+33.38	26.00 LT - 26.00 LT	31.8	2324	2.0
8810+65.14 - 8810+33.38	4.00 RT - 4.00 RT	31.8	2322	2.0
8812+77.12 - 8811+65.14	28.43 LT - 24.00 LT	111.4	256	2.0
9481+00.00 9481+49.80	2.08 RT 21.07 LT	46.4	2510	23.4
9482+17.22 9481+52.68	2.00 RT 21.41 LT	61.2	2510	23.6
8814+04.48 - 2328+42.42	46.40 LT - 101.80 RT	128.0	2519	2.0
8812+66.74 - 8810+65.14	4.00 RT - 4.00 RT	201.6	255	2.0
8812+77.42 - 8812+68.46	2.67 LT - 0.21 RT	5.9	258	2.0
8812+91.80 8813+37.06	2.53 LT 12.69 RT	41.4	2511	12.4
8813+84.28 8813+40.28	2.07 LT 12.40 LT	38.7	2511	11.8
8815+11.00 - 8813+87.11	4.00 RT - 4.00 RT	123.9	2512	2.0
8816+22.18 - 8815+11.00	4.00 RT - 4.00 RT	111.2	2515	2.0
8816+15.60 - 8815+11.00	17.20 LT - 18.00 LT	104.6	2516	2.0
8815+11.00 - 8813+86.70	18.00 LT - 23.97 LT	131.7	2513	2.0
8814+05.94 - 8813+86.70	24.40 LT - 23.97 LT	16.4	2513	2.0
8814+05.94 - 2328+43.30	24.40 LT - 123.80 RT	128.0	2520	2.0
2328+42.42 - 2329+53.21	101.80 RT - 95.40 RT	110.8	276	2.0
2328+43.30 - 2329+54.27	123.80 RT - 117.40 RT	111.0	275	2.0

SHEET 2 OF 3

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

UNDERDRAIN SCHEDULE

SCALE: NONE DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

UNDERDRAIN SCHEDULE

UNDERDRAIN PIPE LIMITS	OFFSET (FT)	PIPE UNDERDRAIN 6" (FT)	CONNECTING STRUCTURE NUMBER	PIPE UNDERDRAIN 6" (SPECIAL) (FT)
2329+53.21 - 2330+64.18	95.40 RT - 88.00 RT	111.0	2710	2.0
2330+64.18 - 2333+14.80	88.00 RT - 68.20 RT	250.6	2714	2.0
2333+14.80 - 2333+70.99	68.20 RT - 95.70 RT	56.2	2718	2.0
2329+54.27 - 2330+65.41	117.40 RT - 110.00 RT	111.1	279	2.0
2330+65.41 - 2331+89.75	110.00 RT - 100.30 RT	124.3	2711	2.0
2331+89.75 - 2333+15.17	100.30 RT - 90.30 RT	125.4	2715	2.0
2333+15.17 - 2333+64.43	90.30 RT - 87.00 RT	49.3	2717	2.0
2320+12.37 - 2320+26.52	129.83 RT - 125.97 RT		2314	15.8
2320+24.71 - 2320+52.12	130.96 RT - 135.38 RT		2314	5.0
2324+65.91 2324+63.58	157.88 RT 144.61 RT		255	16.2
8805+72.26 8805+39.52	18.62 LT 32.60 LT		231	37.6

SHEET 3 OF 3

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

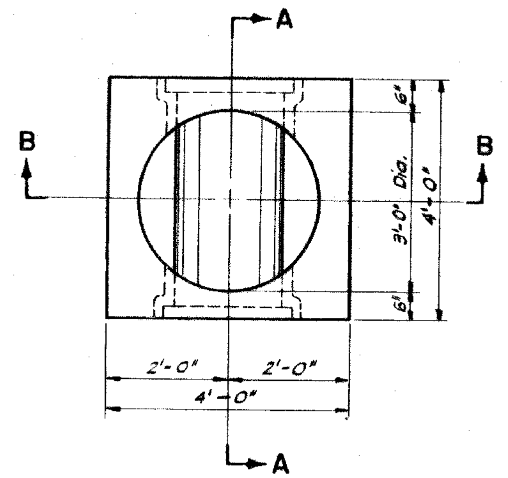
F.A.I. 94 (DAN RYAN EXPRESSWAY)

UNDERDRAIN SCHEDULE

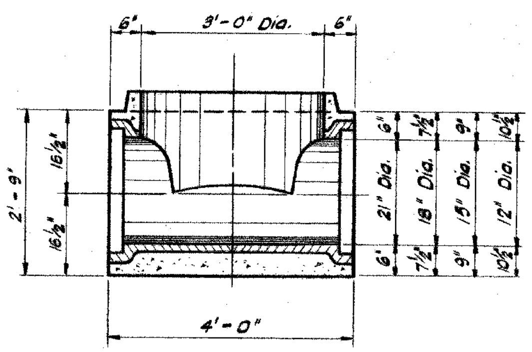
SCALE: NONE DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: DA

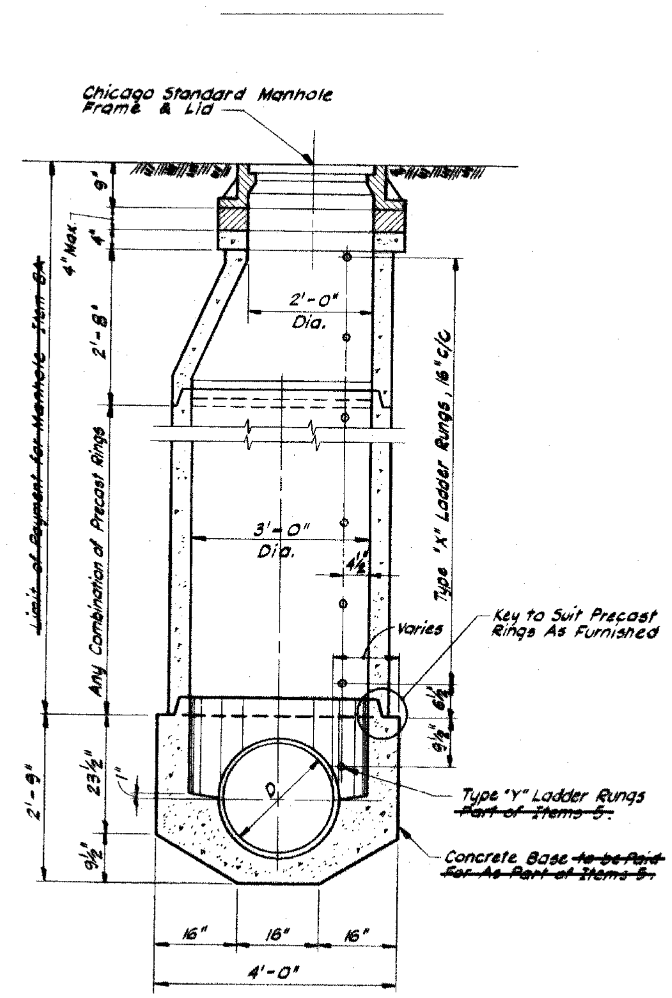
TYLIN INTERNATIONAL



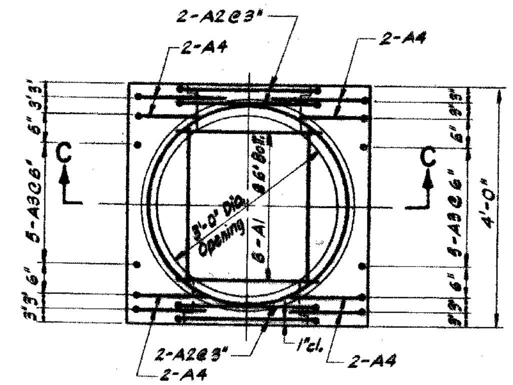
PLAN



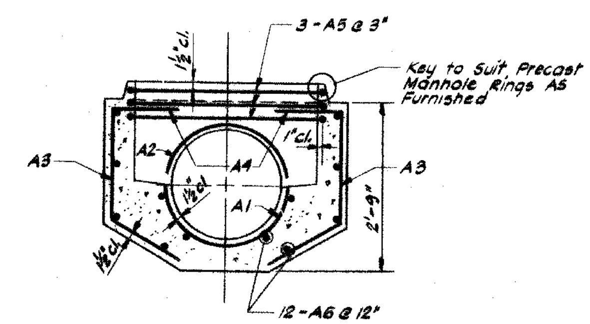
SECTION A-A



SECTION B-B



PLAN
PRECAST BASE



SECTION C-C

STRUCTURE	MARK	SIZE NO.	TYPE	LENGTH	NO. REQ'D	WEIGHT-LBS. EACH	WEIGHT-LBS. TOTAL	A	B	C	D	E	F	G	H	J	K	O	R
SCHEDULE OF REINFORCEMENT - PART OF ITEMS 5																			
	REINFORCEMENT BAR							BENDING DIMENSIONS											
21" DIA.	21 A1	6	9	3'-1"	6	4.63	28		3'-1"						11¼"			2'-1"	12¾"
	21 A2	6	T3	8'-8"	4	13.02	52										2'-0"	2'-1½"	
	21 A3	5	12	3'-3"	10	3.39	34			22"	17"				14½"		8¾"		
	21 A4	5	12	4'-6"	8	4.69	38		15"	22"	17"				14½"		8¾"		
	21 A5	5	T3	11'-11"	3	12.43	37										20"	3'-3¼"	
	21 A6	4	STR.	3'-8"	12	2.45	30												
	TOTAL						219												
18" DIA.	18 A1	6	9	2'-8½"	6	4.07	24		2'-8½"						9¾"			22"	11¼"
	18 A2	6	T3	7'-10½"	4	11.83	47										2'-0"	22½"	
	TOTAL						71												
15" DIA.	15 A1	6	9	2'-3½"	6	3.44	21		23½"						8½"			19"	9¾"
	15 A2	6	T3	7'-1"	4	10.64	42										2'-0"	19½"	
	TOTAL						63												
12" DIA.	12 A1	6	9	1'-11"	6	2.88	17		23"						6¾"			16"	8½"
	12 A2	6	T3	6'-1"	4	9.14	37										2'-0"	16½"	
	TOTAL						54												

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

TYPE "A" PRECAST MANHOLE FOR SEWERS 21" DIA. & SMALLER

SCALE: ¾"=1'-0"

CONTRACT SHEET NO.

DRAWN BY B. Merkonska
DESIGNED BY A. A.
CHECKED BY A. A.

FORM Sewers 1 2-88 (450)

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

T·Y·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

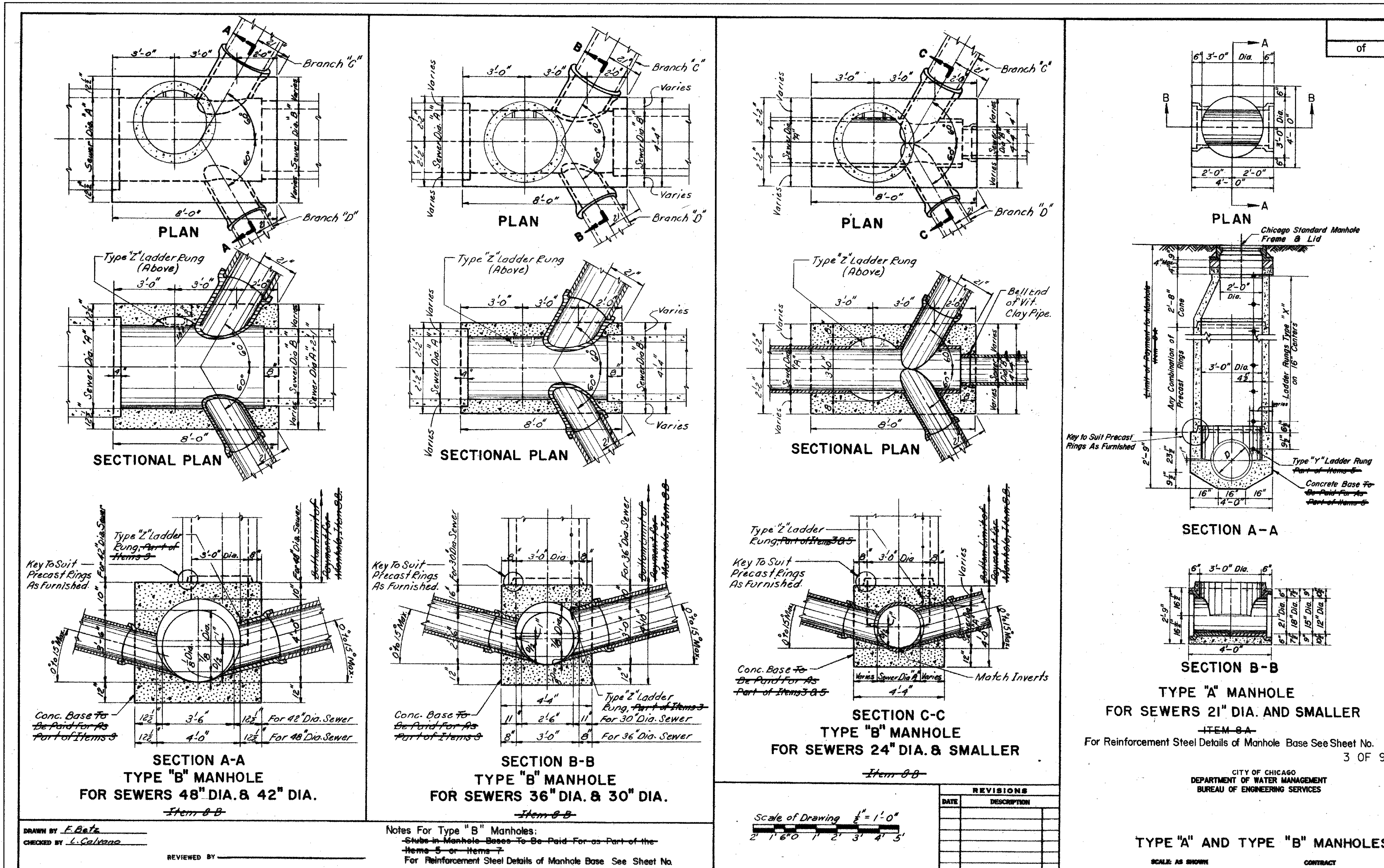
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 1 OF 9)

SCALE: NONE DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	266B
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 2 OF 9)

SCALE: NONE — DRAWN BY: MB

DATE: MARCH 18, 2005 — CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	266C
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694

of

Structural Notes:

Placing of Concrete - Concrete shall be placed in accordance with the method outlined in the Specifications.

Construction Joints - Joints not indicated on the Drawings shall be so made and located as not to impair the strength of the Structure and shall be approved by the Commissioner. Joints shall be constructed in accordance with the method outlined in the Specifications.

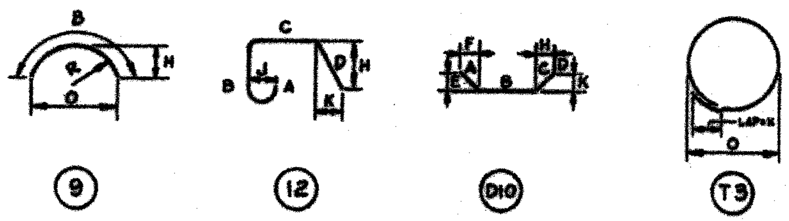
Concrete Protection for Reinforcement - All reinforcing steel shall have clear concrete covering as follows (unless otherwise noted): 3" at exterior surfaces where concrete is deposited against the ground; 2½" at surfaces where concrete is formed but subsequently will be in contact with sewage; 2" at all other surfaces.

Reinforcing Steel - All reinforcing bars shall be accurately placed and securely supported by bar supports, spacers or high chairs. All laps in reinforcing steel shall be based upon the 1989ACI Building Code. Unless otherwise noted, hooks and bends on bars shall conform to recommended details as given in the "Manual of Standard Practice", CR SI - 1990.

The following abbreviations are used to indicate the location of reinforcing bars:

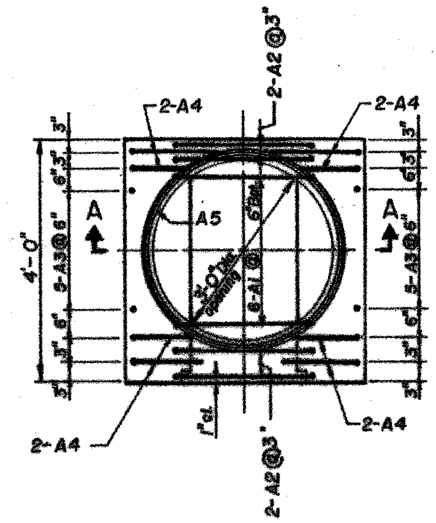
T.	denotes	Top	N.F.	denotes	Near Face
Bot.	"	Bottom	F.F.	"	Far Face
I.F.	"	Inside Face	E.F.	"	Each Face.
O.F.	"	Outside Face	E.W.	"	Each Way

Placing Bar Supports - All reinforcing bars shall be supported, anchored and tied and shall conform to "Recommended Practice for placing Reinforcing Bars" 1986, Prepared by the Concrete Reinforcing Steel Institute.



Note:
All Dimensions Are Out to Out of Bar.
Bending Radii "R" to Outside of Bar.
Numbers In Circles Denote Bar Type.

DRAWN BY *Reproduction*
DESIGNED BY
CHECKED BY



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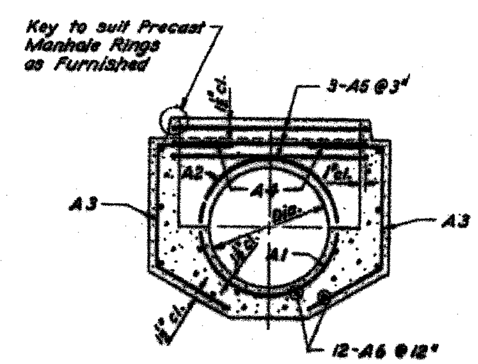
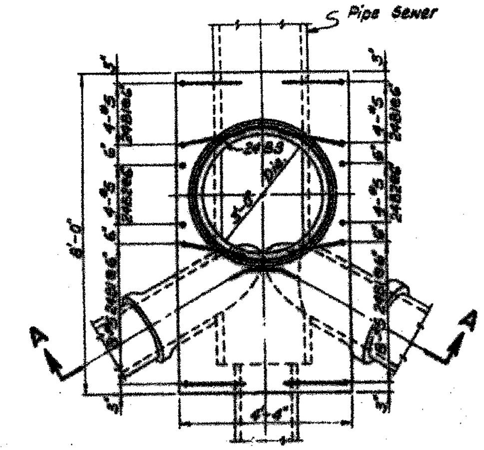


SECTION A-A

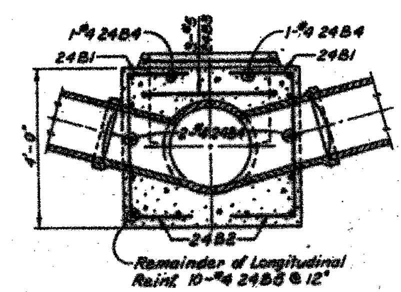
SCHEDULE OF REINFORCEMENT-~~PART OF ITEMS 5~~

STRUCTURE	MARK	SIZE NO.	TYPE	LENGTH	NO. BARS	WEIGHT LBS. EACH	WEIGHT LBS. TOTAL	A	B	C	D	E	F	G	H	J	K	O	R
21" DIA. & SMALLER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]						[illegible]			[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	17"				[illegible]		[illegible]		
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	17"				[illegible]		[illegible]		
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]												
	TOTAL						[illegible]												

TYPE "A" MANHOLE PRECAST BASE
FOR SEWERS 21" DIA. & SMALLER



PLAN



SECTION A-A

SCHEDULE OF REINFORCEMENT-~~ITEM 10~~

STRUCTURE	MARK	SIZE NO.	TYPE	LENGTH	NO. BARS	WEIGHT LBS. EACH	WEIGHT LBS. TOTAL	A	B	C	D	E	F	H	K	O	R
24" DIA. & SMALLER	24B1	5	17	6'-7"	24	6.87	165		18"	5'-7"	18"						
	24B2	6	17	5'-0"	8	6.22	42		18"	5'-6"							
	24B3	5	T3	12'-7"	3	13.12	39								20"	3'-6"	
	24B4	5	Str.	3'-9"	4	3.91	16										
	24B5	4	Str.	7'-9"	10	5.18	52										
	TOTAL						314										

TYPE "B" MANHOLE BASE
FOR SEWERS 24" DIA. & SMALLER

DATE	DESCRIPTION

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

REINFORCEMENT FOR TYPE "A"
AND TYPE "B" MANHOLE BASES

CONTRACT SHEET NO.

SCALE: AS SHOWN

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLININTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 3 OF 9)

SCALE: NONE DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: MPG

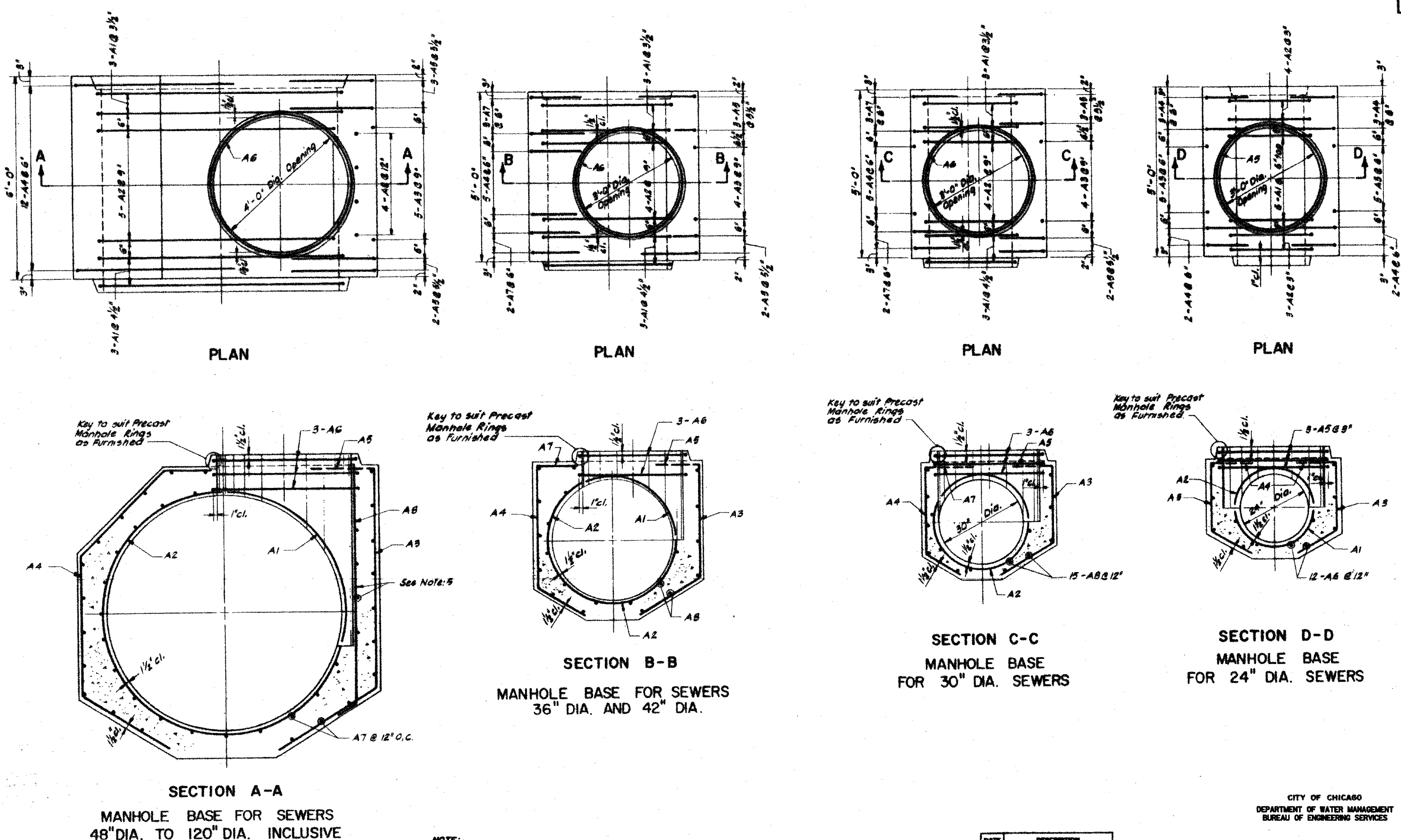
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	266D

STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8

62694



NOTE:
1. For Additional Details of Manholes See Sheet No. _
2. For Structural Notes See Sheet No. _
3. For Bar List See Sheet No. _
4. For Manhole Bases Required For This Contract See Sheet No. _
5. Two Layers of Reinforcement For 66"Dia. Manhole and over.

DATE	DESCRIPTION
9/26/01	PRELIMINARY PLAN
	APPROVED PLAN

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

REINFORCEMENT FOR TYPE "A" PRECAST MANHOLE BASES

SCALE: 3/4"=1'-0"

CONTRACT SHEET NO.

DRAWN BY B. Merkonska
DESIGNED BY N.S.
CHECKED BY A.A.

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 4 OF 9)

SCALE: NONE DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: MPG

4/13/2005 10:02:47 AM

SCHEDULE OF REINFORCEMENT-PART OF ITEMS 3

BASES FOR TYPE "A" MANHOLES (Precast)

STRUCTURE	MARK	SIZE NO.	TYPE	LENGTH	NO. REQ'D	WEIGHT-LBS. EACH	WEIGHT-LBS. TOTAL	A	B	C	D	E	F	G	H	J	K	O	R
120" DIA.	120A1	6	T3	35'-4 3/4"	6	94.51	567										2'-8"	10'-5"	
	120A2	7	9	22'-5"	5	45.82	229		22'-5"						8'-0"			8'-7 1/2"	5'-2 1/2"
	120A3	6	12	14'-4 1/2"	5	21.61	108			9'-6 1/2"	4'-10"				4'-3 1/2"		2'-2 1/2"		
	120A4	7	D10	19'-0 1/2"	12	38.86	466	4'-6"	5'-11 1/2"	4'-10 1/2"	3'-8 1/2"	3'-10 1/2"	2'-3 1/2"		3'-5 1/2"		3'-5 1/2"		
	120A5	8	12	17'-10 1/2"	5	47.76	239		3'-6"	9'-6 1/2"	4'-10"				4'-3 1/2"		2'-2 1/2"		
	120A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	120A7	4	STR.	5'-8"	66	3.79	250												
	120A8	5	12	10'-9"	4	11.21	45			9'-9"	1'-0"				10 1/2		6 1/2		
	TOTAL						1951												
108" DIA.	108A1	7	T3	31'-11"	6	65.24	391										2'-4"	9'-6"	
	108A2	6	9	20'-2 1/2"	5	30.37	152		20'-2 1/2"						7'-2 1/2"			7'-9 1/2"	4'-8 1/2"
	108A3	6	12	12'-9"	5	19.15	96			8'-5"	4'-4"				3'-8 1/2"		2'-2 1/2"		
	108A4	7	D10	17'-0 1/2"	12	34.81	418	4'-1"	5'-4 1/2"	4'-5 1/2"	2'-11 1/2"	3'-6"	2'-1 1/2"		3'-1 1/2"		3'-1 1/2"		
	108A5	7	12	16'-0"	5	32.70	163		3'-3"	8'-5"	4'-4"				3'-8 1/2"		2'-2 1/2"		
	108A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	108A7	4	STR	5'-8"	62	3.79	234												
	108A8	5	12	9'-6"	4	10.09	40			8'-6"	1'-0"				10 1/2		6 1/2		
	TOTAL						1541												
102" DIA.	102A1	7	T3	30'-3"	6	61.65	371										2'-4"	8'-10 1/2"	
	102A2	6	9	19'-0"	5	28.54	143		19'-0"						6'-9 1/2"			7'-4 1/2"	4'-5 1/2"
	102A3	6	12	12'-3"	5	18.40	92			8'-0"	4'-3"				3'-7 1/2"		2'-2"		
	102A4	7	D10	16'-0 1/2"	12	32.79	393	3'-9"	5'-0 1/2"	4'-1 1/2"	2'-8 1/2"	3'-2 1/2"	23"		2'-11 1/2"		2'-8 1/2"		
	102A5	7	12	15'-4"	5	31.34	157		3'-1"	8'-0"	4'-3"				3'-7 1/2"		2'-2"		
	102A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	102A7	4	STR	5'-8"	58	3.79	220												
	102A8	5	12	9'-3"	4	9.65	39			8'-3"	1'-0"				10 1/2		6 1/4		
	TOTAL						1462												
96" DIA.	96A1	7	T3	28'-8"	6	58.38	352										2'-4"	8'-5"	
	96A2	6	9	17'-11 1/2"	5	26.94	135		17'-11 1/2"						6'-4"			7'-2 1/2"	4'-2 1/2"
	96A3	6	12	11'-6"	5	17.27	86			7'-5"	4'-1"				3'-6"		2'-1 1/2"		
	96A4	7	D10	14'-10 1/2"	12	30.38	365	3'-8"	5'-0"	3'-11 1/2"	2'-2 1/2"	3'-1 3/4"	22 1/2"		2'-9 1/2"		2'-9 1/2"		
	96A5	7	12	13'-5	5	27.43	137		2'-10 1/2"	7'-5"	4'-1"				3'-6"		2'-1 1/2"		
	96A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	96A7	4	STR	5'-8"	54	3.79	204												
	96A8	5	12	8'-8"	4	9.04	36			7'-8"	1'-0"				10"		6 3/4		
	TOTAL						1362												
90" DIA.	90A1	6	T3	26'-6"	6	39.80	239										2'-0"	7'-10 1/2"	
	90A2	5	9	16'-7 1/2"	5	17.32	87		16'-7 1/2"						5'-10 1/2"			6'-9 1/2"	3'-11 1/4"
	90A3	6	12	11'-0"	5	16.52	83			7'-0"	4'-0"				3'-5"		2'-0 1/2"		
	90A4	6	D10	13'-9 1/2"	12	20.70	248	3'-6"	4'-7 1/2"	3'-9 1/2"	22 3/4"	3'-0"	21 1/2"		2'-8 1/2"		2'-8 1/2"		
	90A5	6	12	13'-9"	5	20.65	103		2'-9"	7'-0"	4'-0"				3'-5"		2'-0 1/2"		
	90A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	90A7	4	STR	5'-8"	50	3.79	189												
	90A8	5	12	8'-2"	4	8.51	34			7'-2"	1'-0"				9 3/4		7"		
	TOTAL						1030												
84" DIA.	84A1	6	T3	25'-3"	6	37.93	228										2'-0"	7'-4 1/2"	
	84A2	5	9	15'-5 1/2"	5	16.12	81		15'-5 1/2"						5'-5 1/2"			6'-2 1/4"	3'-8 1/2"
	84A3	5	12	9'-10"	5	10.26	51			6'-4"	3'-6"				3'-0"		21 1/2		
	84A4	6	D10	12'-6 1/2"	12	18.79	225	3'-2"	4'-4 1/2"	3'-4 1/2"	1'-6 1/2"	2'-8 1/2"	19 1/2		2'-4 1/2"		2'-4 1/2"		
	84A5	6	12	12'-5"	5	18.65	93		2'-7"	6'-4"	3'-6"				3'-0"		21 1/2		
	84A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	84A7	4	STR.	5'-8"	46	3.79	174												
	84A8	5	12	7'-6"	4	7.82	31			6'-6"	1'-0"				10 1/4		6 1/4		
	TOTAL						930												
78" DIA.	78A1	6	T3	23'-7"	6	35.42	213										2'-0"	6'-10 1/2"	
	78A2	5	9	14'-3 1/2"	5	14.93	75		14'-3 1/2"						5'-0"			7'-9 1/2"	3'-5 1/2"
	78A3	5	12	9'-3"	5	9.65	48			6'-1"	3'-2"				2'-8 1/2"		19 3/4		
	78A4	6	D10	11'-5 1/2"	12	17.26	207	3'-1"	4'-0"	3'-3"	1'-1 1/2"	2'-7 3/4"	19 1/2		2'-3 1/2"		2'-3 1/2"		
	78A5	6	12	11'-9"	5	17.65	88		2'-6"	6'-1"	3'-2"				2'-8 1/2"		19 3/4		
	78A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/2"	
	78A7	4	STR.	5'-8"	42	3.79	159												
	78A8	5	12	7'-3"	4	7.56	30			6'-3"	1'-0"				9 3/4		7"		
	TOTAL						867												
72" DIA.	72A1	6	T3	22'-0	6	33.04	198										2'-0"	6'-4 1/2"	
	72A2	5	9	13'-3"	5	13.82	69		13'-3"						4'-8"			5'-6"	3'-2"
	72A3	5	12	8'-6"	5	8.87	44			5'-6"	3'-0"				2'-6 1/2"		18 3/4		
	72A4	6	D10	9'-11 1/2"	12	14.94	179	2'-6"	3'-8 1/2"	3'-0"	9 1/2	2'-1 1/2"	15 1/2		2'-1 1/2"		2'-1 1/2"		
	72A5	6	12	10'-9"	5	16.15	81		2'-3"	5'-6"	3'-0"				2'-6 1/2"		18 3/4		
	72A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	72A7	4	STR	5'-8"	38	3.79	144												
	72A8	5	12	6'-9"	4	7.04	28			5'-9"	1'-0"				10 1/2		6 1/2		
	TOTAL						790												

DRAWN BY B. Markowska
DESIGNED BY N. SHAKIE
CHECKED BY A.S. Antonio

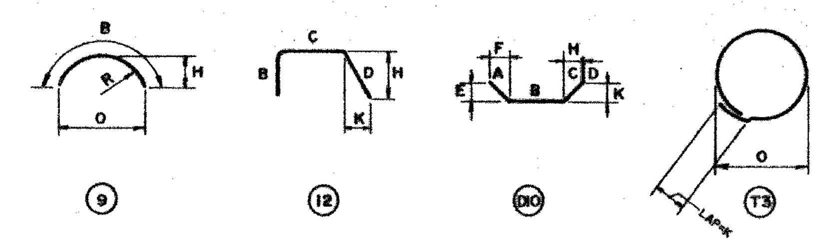
BASES FOR TYPE "A" MANHOLES (Precast)

STRUCTURE	MARK	SIZE NO.	TYPE	LENGTH	NO. REQ'D	WEIGHT-LBS. EACH	WEIGHT-LBS. TOTAL	A	B	C	D	E	F	G	H	J	K	O	R
66" DIA.	66A1	6	T3	20'-5"	6	30.73	184										2'-0"	5'-10 1/2"	
	66A2	5	9	11'-10"	5	12.35	62		11'-10"						4'-2 1/2"			5'-1 1/2"	2'-11 1/2"
	66A3	5	12	8'-2"	5	8.52	43			5'-2"	3'-0"				2'-7"		16 1/2		
	66A4	5	D10	9'-1 1/2"	12	9.51	114	2'-6"	3'-5"	2'-9 1/2"	4 1/2	2'-2"	15"		23 1/2		23 1/2		
	66A5	6	12	10'-4"	5	15.50	78		2'-2"	5'-2"	3'-0"				2'-7"		16 1/2		
	66A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	66A7	4	STR	5'-8"	36	3.79	136												
	66A8	5	12	6'-5"	4	6.69	27			5'-5"	1'-0"				10 1/2		6 1/2		
	TOTAL						691												
60" DIA.	60A1	6	T3	18'-11"	6	28.41	170										2'-0"	5'-4 1/2"	
	60A2	5	9	10'-9"	5	11.21	56		10'-9"						3'-9 1/2"			5'-11 1/2"	2'-8"
	60A3	5	12	7'-4"	5	7.65	38			4'-7"	2'-9"				2'-4 1/2"		17"		
	60A4	5	D10	8'-1 1/2"	12	8.48	102	2'-3"	3'-6"	23 1/2	4 1/2	23 1/2	18"		16 3/4		16 3/4		
	60A5	5	12	9'-4"	5	9.74	49		2'-0"	4'-7"	2'-9"				2'-4 1/2"		17"		
	60A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	60A7	4	STR	5'-8"	27	3.79	102												
	TOTAL						564												
54" DIA.	54A1	6	T3	17'-4"	6	26.04	156										2'-0"	4'-10 1/2"	
	54A2	5	9	9'-5 1/2"	5	9.87	49		9'-5 1/2"						3'-3 1/2"			4'-5 1/2"	2'-5"
	54A3	5	12	6'-8"	5	6.95	28			4'-2"	2'-6"				2'-1 1/2"		15 1/2		
	54A4	5	D10	7'-2 1/2"	12	7.55	91	2'-0"	3'-7"	15"	4 1/2	20 3/4	12 3/4		10 3/4		10 3/4		
	54A5	5	12	8'-8"	5	9.04	45		2'-0"	4'-2"	2'-6"				2'-1 1/2"		15 1/2		
	54A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	54A7	4	STR	5'-8"	25	3.79	95												
	TOTAL						511												
48" DIA.	48A1	6	T3	15'-9"	6	23.66	142										2'-0"	4'-4 1/2"	
	48A2	5	9	8'-0 1/2"	5	8.39	42		8'-0 1/2"						2'-9 1/2"			4'-2"	2'-2"
	48A3	5	12	5'-9"	5	6.00	30			3'-8"	2'-1"				21 3/4		12 3/4		
	48A4	5	D10	6'-5 1/2"	12	6.74	81	2'-0"	3'-7 1/2"	5 1/2	4 1/2	17"	17"		3 1/2		3 1/2		
	48A5	5	12	7'-6"	5	7.88	39		21"	3'-8"	2'-1"				21 3/4		12 3/4		
	48A6	5	T3	15'-1"	3	15.74	47										20"	4'-3 1/4"	
	48A7	4	STR	5'-8"	22	3.79	83												
	TOTAL						464												
42" DIA.	42A1	6	T3	14'-2"	6	21.28	128										2'-0"	3'-10 1/2"	
	42A2	5	9	7'-6"	4	7.82	31		7'-6"						2'-9"			3'-3"	23"
	42A3	5	12	5'-4"	4	5.56	22			3'-3"	2'-1"				22 1/2		13 1/2		
	42A4	5	12	6'-4"	5	6.61	33		14"	3'-6"	20"				17 1/2		10 1/2		
	42A5	5	12	7'-1"	5	7.39	37		21"	3'-3"	2'-1"				21 1/2		12 1/2		
	42A6	5	T3	11'-11"	3	12.43	37										20"	3'-3 1/4"	
	42A7	5	12	6'-8"	5	6.95	35		18"	3'-6"	20"				17 1/2		10 1/2		
	42A8	4	STR.	4'-8"	21	3.12	66												
	TOTAL						389												
36" DIA.	36A1	6	T3	12'-7"	6	18.90	113										2'-0"	3'-4 1/2"	
	36A2	5	9	6'-0"	4	6.26	25		6'-0"						2'-2"			3'-0"	20"
	36A3	5	12	4'-6"	4	4.69	19			2'-9"	21"				18"		10 3/4		
	36A4	5	12	5'-0"	5	5.22	26		7"	3'-0"	17"				14 1/2		8 3/4		
	36A5	5	12	5'-9"	5	6.00	30		15"	2'-9"	21"				18"		10 3/4		
	36A6	5	T3	11'-11"	3	12.43	37										20"	3'-3 1/4"	
	36A7	5	12	5'-8"	5	5.91	30		15"	3'-0"	17"				14 1/2		8 3/4		
	36A8	4	STR	4'-8"	18	3.12	56												
	TOTAL						336												
30" DIA.	30A1	6	T3	11'-1"	6	16.65	100										2'-0"	2'-10 1/2"	
	30A2	5	9	4'-4"	4	4.52	18		4'-4"						18"			2'-10"	17"
	30A3	5	12	4'-0"	4	4.17	17			2'-3"	21"				18"		10 3/4		
	30A4	5	12	3'-10"	5	4.00	20			2'-7"	15"				12 3/4		7 3/4		
	30A5	5	12	5'-3"	5	5.48	27		15"	2'-3"	21"				18"		10 3/4		
	30A6	5	T3	11'-11"	3	12.43	37										20"	3'-3 1/4"	
	30A7	5	12	5'-1"	5	5.30	26		15"	2'-7"	15"				12 3/4		7 3/4		
	30A8	4	STR	4'-8"	15	3.12	47												
	TOTAL						292												
24" DIA.	24A1	6	9	3'-5"	6	5.13	31		3'-5"						13"			2'-3 1/2"	14 1/2
	24A2	6	T3	9'-4"	7	14.02	98										22"	2'-4 1/2"	
	24A3	5	12	3'-6"	10	3.65	37			2'-1"	17"				14 1/2		8 3/4		
	24A4	5	12	4'-9"	10	4.96	50		15"	2'-1"	17"				14 1/2		8 3/4		
	24A5	5	T3	11'-11"	3	12.43	37										20"	3'-3 1/4"	
	24A6	4	STR.	4'-8"	12	3.12	37												
	TOTAL						290												

Structural Notes:
Placing of Concrete - Concrete Must be placed in accordance with the method outlined in the Specifications.
Construction Joints - Joints not indicated on the Drawings Must be so made and located as not to impair the strength of the Structure and shall be approved by the Commissioner. Joints Must be constructed in accordance with the method outlined in the Specifications.
Concrete Protection for Reinforcement - All reinforcing steel Must have clear concrete covering as follows (unless otherwise noted)
3" at exterior surfaces where concrete is deposited against the ground;
2.5" at surfaces where concrete is formed but subsequently will be in contact with sewage; 2" at all other surfaces.
Reinforcing Steel - All reinforcing bars Must be accurately placed and securely supported by bar supports, spacers or high chairs.
All laps in reinforcing steel Must be based upon the 1989, ACI Building Code.
Unless otherwise noted, hooks and bends on bars Must conform to recommended details as given in the "Manual of Standard Practice", CR SI - 1990.
The following abbreviations are used to indicate the location of reinforcing bars:

T.	denotes	Top	N.F.	denotes	Near Face
Bot.	denotes	Bottom	F.E.	denotes	Far Face
I.F.	denotes	Inside Face	E.F.	denotes	Each Face
O.F.	denotes	Outside Face	E.W.	denotes	Each Way

Placing Bar Supports - All reinforcing bars Must be supported, anchored and tied and Must conform to "Recommended Practice for placing Reinforcing Bars" 1986, Prepared by the Concrete Reinforcing Steel Institute.



Note:
All Dimensions Are Out to Out of Bar.
Bending Radii "R" to Outside of Bar.
Numbers In Circles Denote Bar Type.

DATE	DESCRIPTION
12/91	Revised to Suit 4'-0" Dia. Risers
8/26/0?	PRELIMINARY PLAN
	APPROVED PLAN

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

REINFORCEMENT BAR LISTS FOR TYPE "A" PRECAST MANHOLE BASES

CONTRACT SHEET NO

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLININTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 5 OF 9)

SCALE: NONE　DRAWN BY: MB
DATE: MARCH 18, 2005　CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	266F

STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

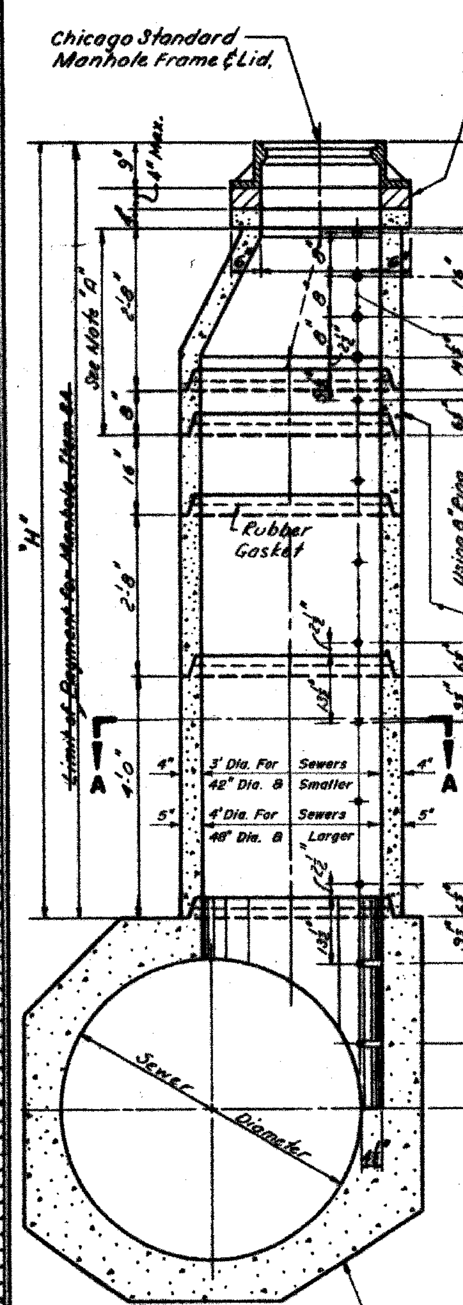
* (1516.1, 1717 & 1818) R-8 62694

NUMBER OF PRECAST RINGS REQUIRED FOR MANHOLES OF VARIOUS HEIGHTS

TOTAL HEIGHT "H"	9" FRAME + 2'-6" CORBEL = 3'-3"	PRECAST RINGS 4'-0"	2'-8"	1'-4"	8"	4"	BRICK AND/OR MORTAR
5'-0"	3'-3"			1			3"
1"	"			1			4"
2"	"			1		1	1"
3"	"			1		1	2"
4"	"			1		1	3"
5"	"			1		1	4"
6"	"			1	1		1"
7"	"			1	1		2"
8"	"			1	1		3"
9"	"			1	1		4"
10"	"			1	1	1	1"
11"	"			1	1	1	2"
6'-0"	3'-3"			1	1	1	3"
1"	"			1	1	1	4"
2"	"		1				1"
3"	"		1				2"
4"	"		1				3"
5"	"		1				4"
6"	"		1			1	1"
7"	"		1			1	2"
8"	"		1			1	3"
9"	"		1			1	4"
10"	"		1		1		1"
11"	"		1		1		2"
7'-0"	3'-3"		1		1		3"
1"	"		1		1		4"
2"	"		1		1	1	1"
3"	"		1		1	1	2"
4"	"		1		1	1	3"
5"	"		1		1	1	4"
6"	"	1					1"
7"	"	1					2"
8"	"	1					3"
9"	"	1					4"
10"	"	1				1	1"
11"	"	1				1	2"
8'-0"	3'-3"	1				1	3"
1"	"	1				1	4"
2"	"	1			1		1"
3"	"	1			1		2"
4"	"	1			1		3"
5"	"	1			1		4"
6"	"	1			1	1	1"
7"	"	1			1	1	2"
8"	"	1			1	1	3"
9"	"	1			1	1	4"
10"	"	1		1			1"
11"	"	1		1			2"
9'-0"	3'-3"	1		1			3"
1"	"	1		1			4"
2"	"	1		1		1	1"
3"	"	1		1		1	2"
4"	"	1		1		1	3"
5"	"	1		1		1	4"
6"	"	1		1	1		1"
7"	"	1		1	1		2"
8"	"	1		1	1		3"
9"	"	1		1	1		4"
10"	"	1		1	1	1	1"
11"	"	1		1	1	1	2"
10'-0"	3'-3"	1		1	1	1	3"
1"	"	1		1	1	1	4"
2"	"	1	1				1"
3"	"	1	1				2"
4"	"	1	1				3"
5"	"	1	1				4"
6"	"	1	1			1	1"
7"	"	1	1			1	2"
8"	"	1	1			1	3"
9"	"	1	1			1	4"
10"	"	1	1		1		1"
11"	"	1	1		1		2"
11'-0"	3'-3"	1	1		1		3"
1"	"	1	1		1		4"
2"	"	1	1		1	1	1"
3"	"	1	1		1	1	2"
4"	"	1	1		1	1	3"
5"	"	1	1		1	1	4"
6"	"	2					1"
7"	"	2					2"
8"	"	2					3"
9"	"	2					4"
10"	"	2				1	1"
11"	"	2				1	2"

TOTAL HEIGHT "H"	9" FRAME + 2'-6" CORBEL = 3'-3"	PRECAST RINGS 4'-0"	2'-8"	1'-4"	8"	4"	BRICK AND/OR MORTAR
12'-0"	3'-3"	2				1	3"
1"	"	2				1	4"
2"	"	2			1		1"
3"	"	2			1		2"
4"	"	2			1		3"
5"	"	2			1		4"
6"	"	2			1	1	1"
7"	"	2			1	1	2"
8"	"	2			1	1	3"
9"	"	2			1	1	4"
10"	"	2		1			1"
11"	"	2		1			2"
13'-0"	3'-3"	2		1			3"
1"	"	2		1			4"
2"	"	2		1		1	1"
3"	"	2		1		1	2"
4"	"	2		1		1	3"
5"	"	2		1		1	4"
6"	"	2		1	1		1"
7"	"	2		1	1		2"
8"	"	2		1	1		3"
9"	"	2		1	1		4"
10"	"	2		1	1	1	1"
11"	"	2		1	1	1	2"
14'-0"	3'-3"	2		1	1	1	3"
1"	"	2		1	1	1	4"
2"	"	2	1				1"
3"	"	2	1				2"
4"	"	2	1				3"
5"	"	2	1				4"
6"	"	2	1			1	1"
7"	"	2	1			1	2"
8"	"	2	1			1	3"
9"	"	2	1			1	4"
10"	"	2	1		1		1"
11"	"	2	1		1		2"
15'-0"	3'-3"	2	1		1		3"
1"	"	2	1		1		4"
2"	"	2	1		1	1	1"
3"	"	2	1		1	1	2"
4"	"	2	1		1	1	3"
5"	"	2	1		1	1	4"
6"	"	3					1"
7"	"	3					2"
8"	"	3					3"
9"	"	3					4"
10"	"	3				1	1"
11"	"	3				1	2"
16'-0"	3'-3"	3				1	3"
1"	"	3				1	4"
2"	"	3			1		1"
3"	"	3			1		2"
4"	"	3			1		3"
5"	"	3			1		4"
6"	"	3			1	1	1"
7"	"	3			1	1	2"
8"	"	3			1	1	3"
9"	"	3			1	1	4"
10"	"	3		1			1"
11"	"	3		1			2"
17'-0"	3'-3"	3		1			3"
1"	"	3		1			4"
2"	"	3		1		1	1"
3"	"	3		1		1	2"
4"	"	3		1		1	3"
5"	"	3		1		1	4"
6"	"	3		1	1		1"
7"	"	3		1	1		2"
8"	"	3		1	1		3"
9"	"	3		1	1		4"
10"	"	3		1	1	1	1"
11"	"	3		1	1	1	2"
18'-0"	3'-3"	3		1	1	1	3"
1"	"	3		1	1	1	4"
2"	"	3	1				1"
3"	"	3	1				2"
4"	"	3	1				3"
5"	"	3	1				4"
6"	"	3	1			1	1"
7"	"	3	1			1	2"
8"	"	3	1			1	3"
9"	"	3	1			1	4"
10"	"	3	1		1		1"
11"	"	3	1		1		2"

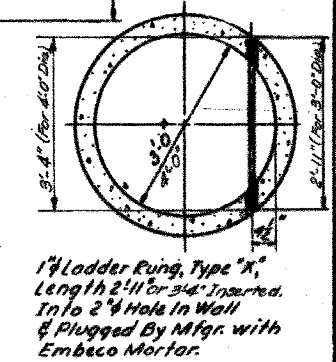
TOTAL HEIGHT "H"	9" FRAME + 2'-6" CORBEL = 3'-3"	PRECAST RINGS 4'-0"	2'-8"	1'-4"	8"	4"	BRICK AND/OR MORTAR
19'-0"	3'-3"	3	1		1		3"
1"	"	3	1		1		4"
2"	"	3	1		1	1	1"
3"	"	3	1		1	1	2"
4"	"	3	1		1	1	3"
5"	"	3	1		1	1	4"
6"	"	4					1"
7"	"	4					2"
8"	"	4					3"
9"	"	4					4"
10"	"	4				1	1"
11"	"	4				1	2"
20'-0"	3'-3"	4				1	3"
1"	"	4				1	4"
2"	"	4			1		1"
3"	"	4			1		2"
4"	"	4			1		3"
5"	"	4			1		4"
6"	"	4			1	1	1"
7"	"	4			1	1	2"
8"	"	4			1	1	3"
9"	"	4			1	1	4"
10"	"	4		1			1"
11"	"	4		1			2"
21'-0"	3'-3"	4		1			3"
1"	"	4		1			4"
2"	"	4		1		1	1"
3"	"	4		1		1	2"
4"	"	4		1		1	3"
5"	"	4		1		1	4"
6"	"	4		1	1		1"
7"	"	4		1	1		2"
8"	"	4		1	1		3"
9"	"	4		1	1		4"
10"	"	4		1	1	1	1"
11"	"	4		1	1	1	2"
22'-0"	3'-3"	4		1	1	1	3"
1"	"	4		1	1	1	4"
2"	"	4	1				1"
3"	"	4	1				2"
4"	"	4	1				3"
5"	"	4	1				4"
6"	"	4	1			1	1"
7"	"	4	1			1	2"
8"	"	4	1			1	3"
9"	"	4	1			1	4"
10"	"	4	1		1		1"
11"	"	4	1		1		2"
23'-0"	3'-3"	4	1		1		3"
1"	"	4	1		1		4"
2"	"	4	1		1	1	1"
3"	"	4	1		1	1	2"
4"	"	4	1		1	1	3"
5"	"	4	1		1	1	4"
6"	"	5					1"
7"	"	5					2"
8"	"	5					3"
9"	"	5					4"
10"	"	5				1	1"
11"	"	5				1	2"
24'-0"	3'-3"	5				1	3"
1"	"	5				1	4"
2"	"	5			1		1"
3"	"	5			1		2"
4"	"	5			1		3"
5"	"	5			1		4"
6"	"	5			1	1	1"
7"	"	5			1	1	2"
8"	"	5			1	1	3"
9"	"	5			1	1	4"
10"	"	5		1			1"
11"	"	5		1			2"
25'-0"	3'-3"	5		1			3"
1"	"	5		1			4"
2"	"	5		1		1	1"
3"	"	5		1		1	2"
4"	"	5		1		1	3"
5"	"	5		1		1	4"
6"	"	5		1	1		1"
7"	"	5		1	1		2"
8"	"	5		1	1		3"
9"	"	5		1	1		4"
10"	"	5		1	1	1	1"
11"	"	5		1	1	1	2"



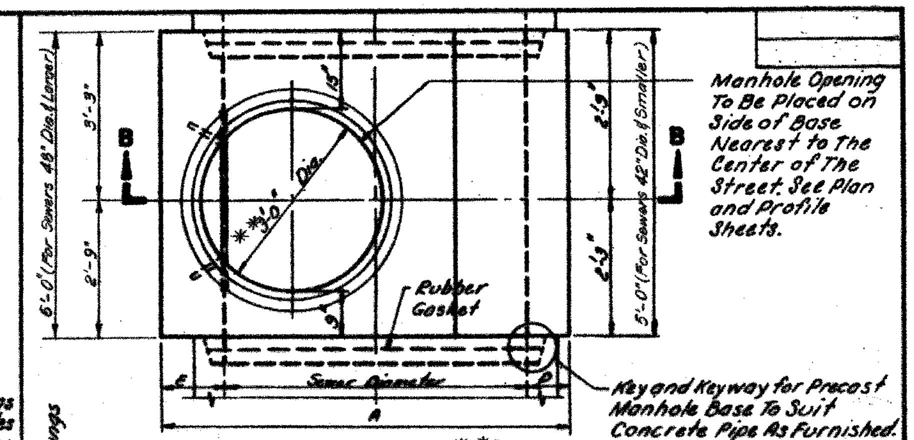
DETAIL OF PRECAST RINGS

~~Part of Item 8A~~

Scale: 3/4"=1'-0"

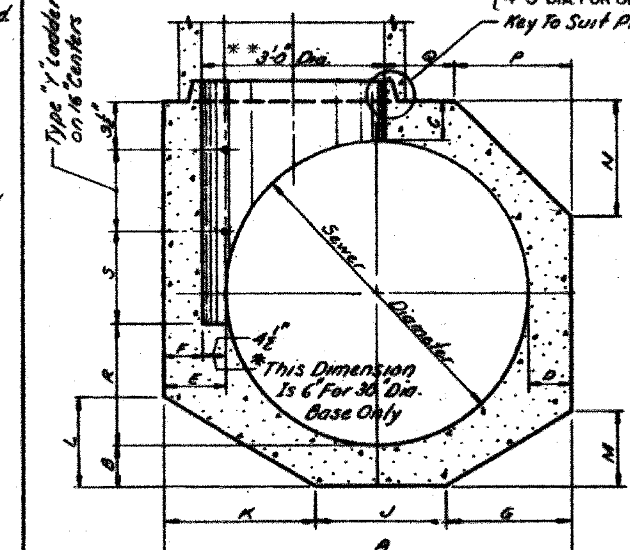


SECTION A-A



PLAN

** 3'-0" Dia. For Sewers 42" Dia. & Smaller.
4'-0" Dia. For Sewers 48" Dia. & Larger.



SECTION B-B
DETAIL OF PRECAST BASE

Notes:
For General Notes See Sheet No. 1

For Reinforcement Steel of Manhole Base See Sheet No. S3

~~Reinforcement Steel In Manhole Base To Be Paid For Under Items 8~~

6" Minimum Granular Embedment Under All Precast Manhole Bases.

* This Dimension Is 6" On Both Sides For A 24" Dia. Base.

SEWER DIA.	~~PART OF ITEM~~	A	B	C	D	E	F	G	J	K	L	M	N	P	Q	R	S	NO. "Y" RUNGS
120"	—	12'-4½	12"	12"	12"	16½"	12"	4'-0"	4'-0"	4'-4½	2'-7½	2'-5"	3'-6"	3'-6"	3'-10½	2'-0"	18½"	6
108"	—	11'-4½	12"	12"	12"	16½"	12"	3'-8"	3'-8"	4'-0½	2'-5"	2'-2"	3'-2½	3'-2½	3'-2"	2'-0"	6½"	6
102"	—	10'-10½	12"	12"	12"	16½"	12"	3'-6"	3'-6"	3'-10½	2'-4"	2'-1"	3'-0"	3'-0"	2'-10½	2'-0"	16½"	6
96"	—	10'-2½	11"	11"	11"	15½"	11"	3'-3"	3'-3"	3'-8½	2'-3"	23"	2'-10½	2'-10½	2'-5"	2'-0"	9½"	5
90"	—	9'-8½	11"	11"	11"	15½"	11"	3'-1"	3'-1"	3'-6½	2'-0½	22"	2'-9"	2'-9"	2'-0½	2'-0"	19½"	4
84"	—	9'-0½	10"	10"	10"	14½"	10"	2'-11"	2'-11"	3'-2½	23"	21"	2'-5½	2'-5½	1'-9"	2'-0"	12½"	4
78"	—	8'-6½	10"	10"	10"	14½"	10"	2'-9"	2'-9"	3'-0½	22"	20"	2'-4½	2'-4½	1'-4"	2'-0"	6½"	4
72"	~~3A~~	7'-10½	9"	9"	9"	13½"	9"	2'-6"	2'-6"	2'-10½	21"	18"	2'-2½	2'-2½	11½"	2'-0"	15½"	3
66"	~~3B~~	7'-4½	9"	9"	9"	13½"	9"	2'-4"	2'-4"	2'-8½	19½"	17"	2'-0½	2'-0½	7"	2'-0"	9½"	3
60"	—	6'-8½	8"	8"	8"	12½"	8"	2'-1½	2'-1"	2'-6"	18"	15"	1'-5½	1'-5½	7"	2'-0"	18½"	2
54"	—	6'-2½	8"	8"	8"	12½"	8"	23½"	23"	2'-4"	17"	14"	11½"	11½"	7"	2'-0"	12½"	2
48"	—	5'-6½	7"	7"	7"	11½"	7"	20½"	21"	2'-1"	15"	12½"	4½"	4½"	7"	2'-0"	21½"	1
42"	—	5'-0½	7"	7"	7"	11½"	7"	18½"	19"	23"	14"	11"	—	—	17½"	21"	18½"	1
36"	—	4'-4½	6"	6"	6"	10½"	6"	16"	16"	20½"	12½"	9½"	—	—	10½"	18"	14½"	1
30"	—	4'-0"	6"	6"	6"	12"	6"	14"	14"	20"	12"	8½"	—	—	6"	15"	11½"	1
24"	~~3C~~	4'-0"	6"	6"	12"	12"	6"	16"	16"	16"	9½"	9½"	—	—	6"	12"	8½"	1

NOTES:
Precast Concrete Rings Must Conform To A.S.T.M. Designation C76 For "Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe", Class II, Wall B.
Standard Lengths of Rings Are: 4'-0", 2'-8", 1'-4", 0'-8" and 0'-4" Collar.
~~All Reinforcement Steel Required for Precast Concrete Rings Must Be Included In The Price Bid for Item 8A.~~
~~For Revisions To Items 8 Manholes See Specifications, Part I, G.P.~~

Note "A"
Where The 8" Ring Is Indicated In The Tabulation, A Separate One Piece Cone 3'-4" In Height May Be Used As An Alternate.

Scale of Drawing 3/8"=1'-0"

DRAWN BY REPRODUCTION
CHECKED BY N.S.
EXAMINED BY A.A.

REVISIONS		
DATE	DESCRIPTION	
8-20-01	Revised to Suit 48" Dia. Rings.	A
3/26/01	PRELIMINARY PLAN	
	APPROVED PLAN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

TYPE "A" MANHOLE PRECAST BASES AND RINGS

~~SCALE AS SHOWN~~ CONTRACT SHEET NO.

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

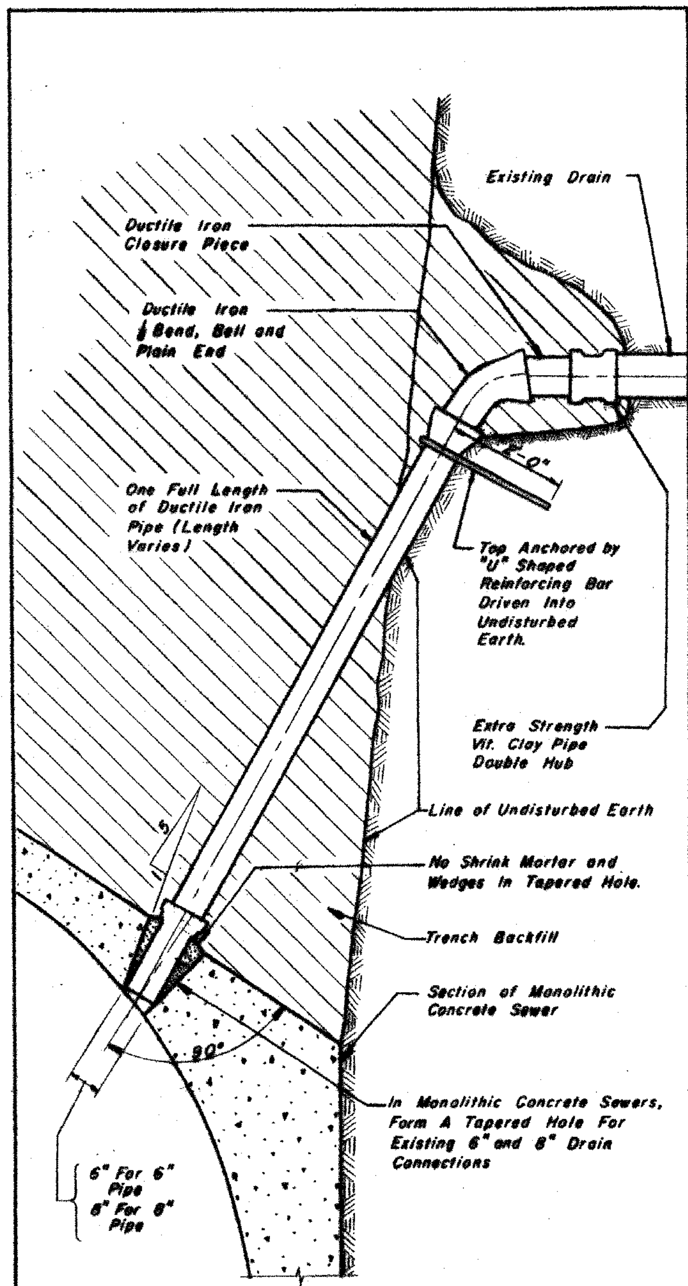
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 6 OF 9)

SCALE: NONE DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	266G
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

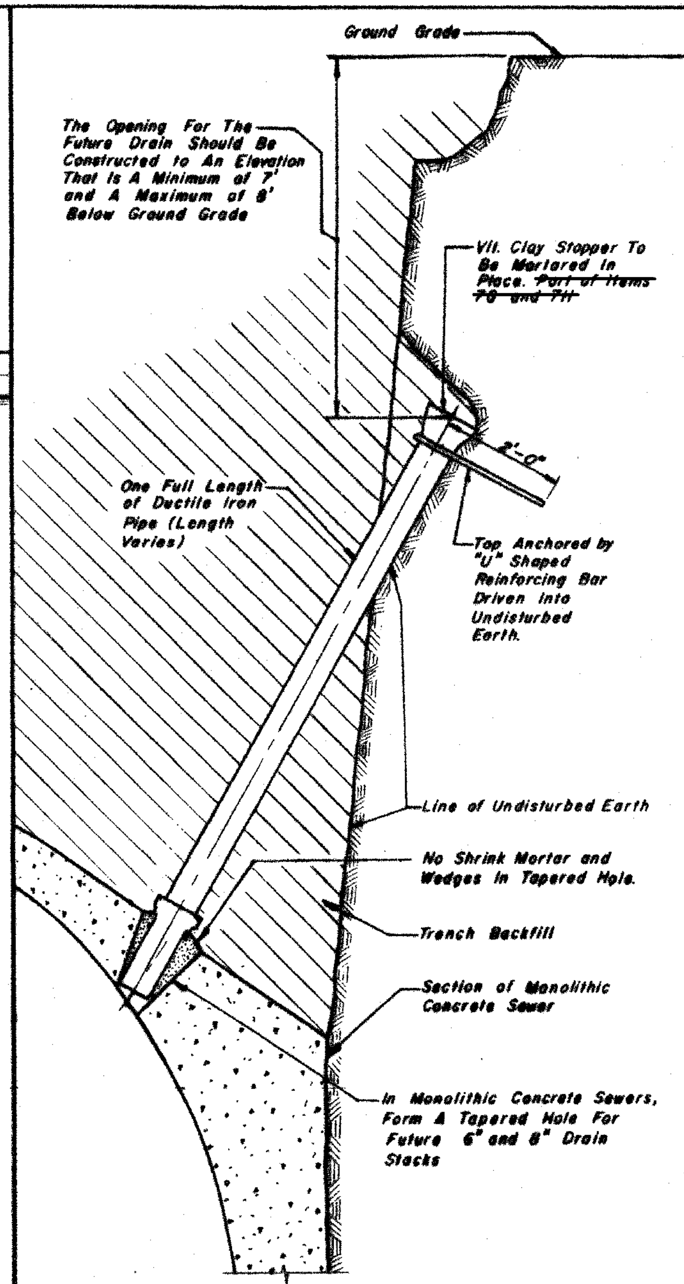
62694



ELEVATION

TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS

~~Items 7G and 7H~~

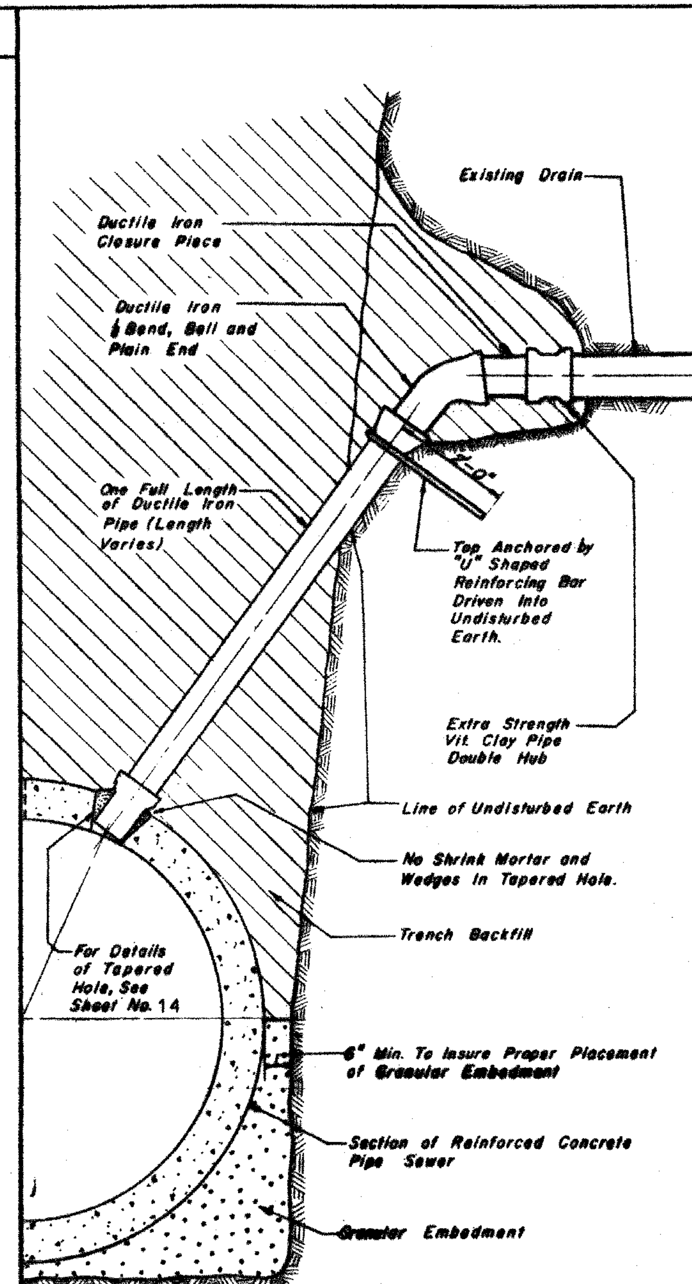


ELEVATION

TYPICAL DRAIN STACKS FOR FUTURE USE

~~Items 7G and 7H~~

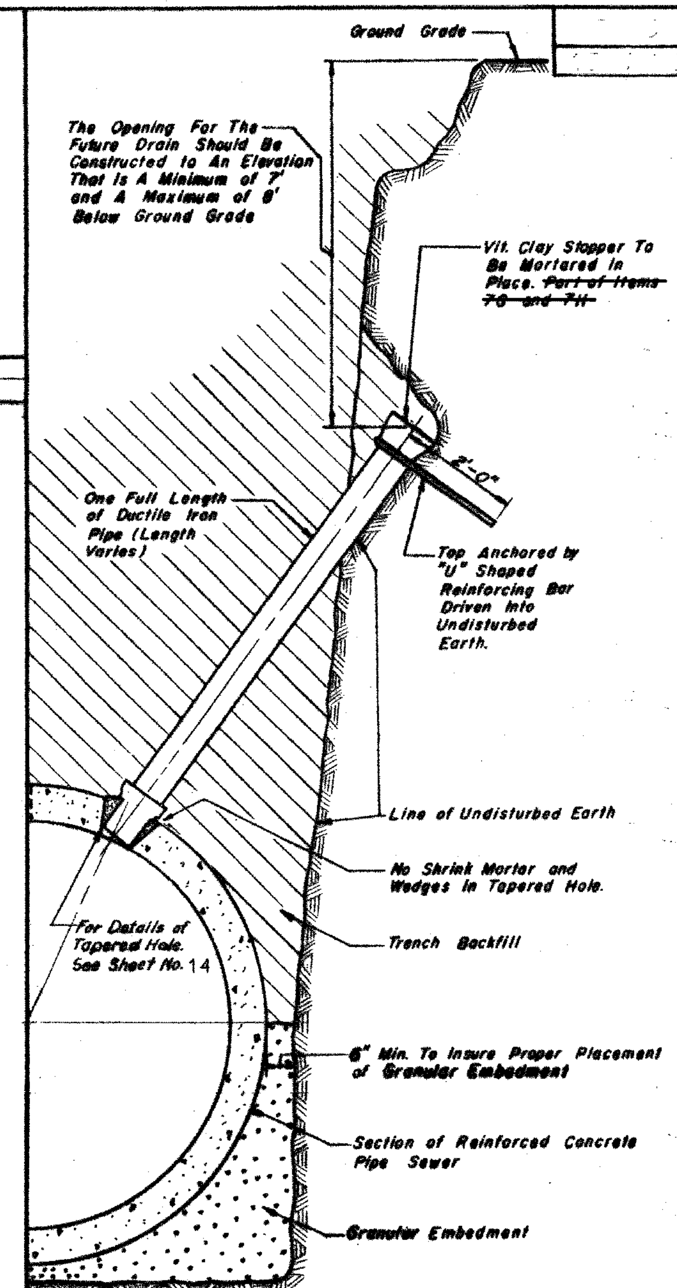
FOR MONOLITHIC CONCRETE SEWERS



ELEVATION

TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS

~~Items 7G and 7H~~



ELEVATION

TYPICAL DRAIN STACKS FOR FUTURE USE

~~Items 7G and 7H~~

FOR REINFORCED CONCRETE PIPE SEWERS

DRAWN BY Reproduction
DESIGNED BY
CHECKED BY

Notes:
Ductile Iron Pipe Must Be Bell End with Push-On Joints Conforming To ANSI Specifications A21.51 with Class 52 Thickness.
Connections and Stacks Shown ~~Shall~~ Be Used For 6" and 8" Drains Only. ~~No Additional Payment Will Be Made For the Use of Ductile Iron Drain Connections and Stacks, and All Costs For This Work Shall Be Included In the Prices Bid For Items 7G and 7H.~~
For Vitrified Clay Pipe Drain Connection and Drain Stack Construction, See Sheet No.
Must

DATE	DESCRIPTION
8/26/01	PRELIMINARY PLAN
	APPROVED PLAN

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

DUCTILE IRON PIPE DRAIN CONNECTIONS

SCALE: NONE

CONTRACT SHEET NO.

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 7 OF 9)

SCALE: NONE
DATE: MARCH 18, 2005
DRAWN BY: MB
CHECKED BY: MPG

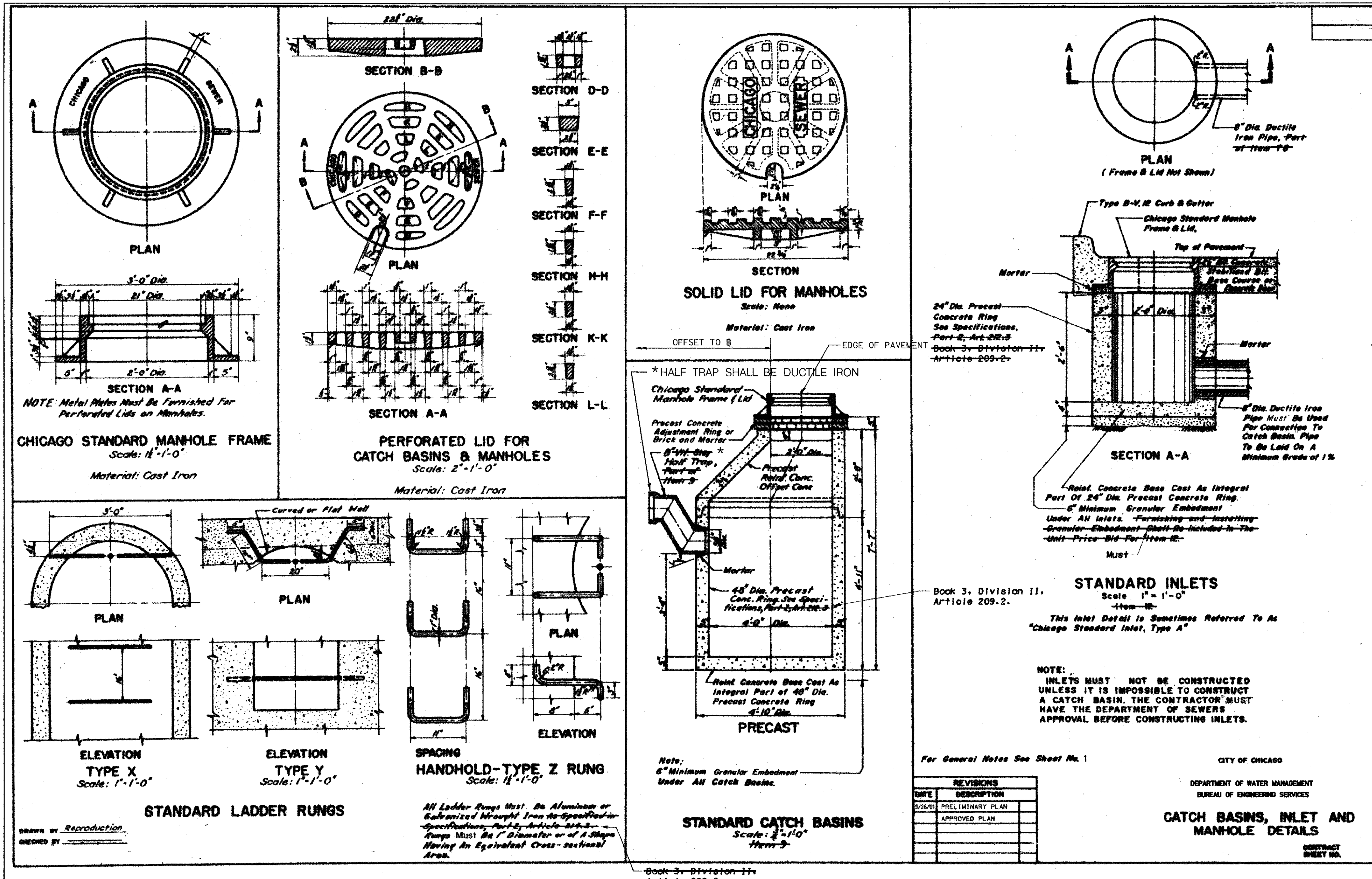
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	266H

STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8

62694



NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 8 OF 9)

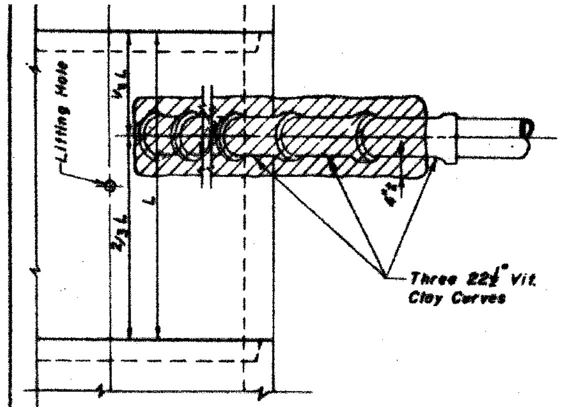
SCALE: NONE — DRAWN BY: MB

DATE: MARCH 18, 2005 — CHECKED BY: MPG

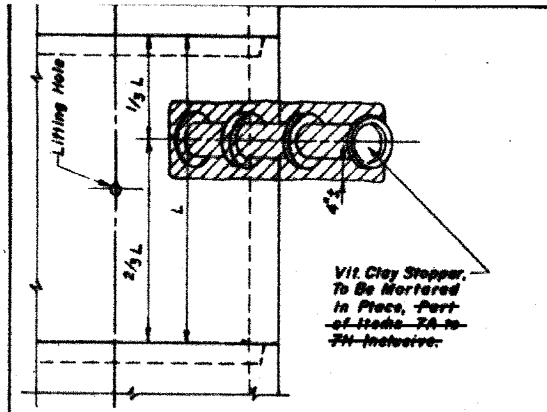
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	266I
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

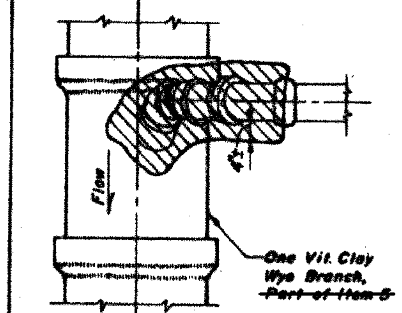
62694



PLAN

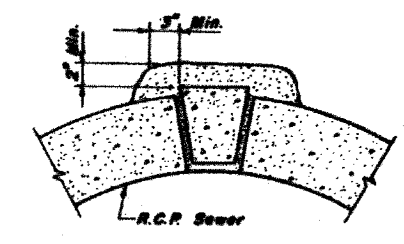


PLAN



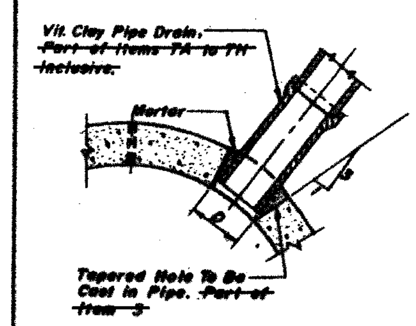
PLAN

NOTE: Plug to be Coated With Mortar and Driven into Place with a Wooden Mallet and then Sealed with Mortar.



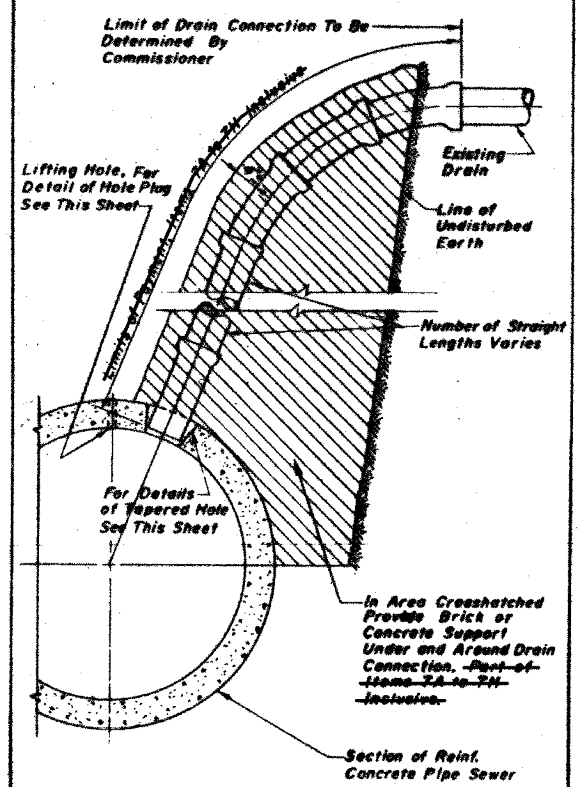
LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

~~Part of Item 3~~



SIZE OF DRAIN	"D"
6"	6¾"
8"	9¾"
10"	11¾"
12"	13½"
15"	17"
18"	20¼"
21"	23¾"
24"	27¼"

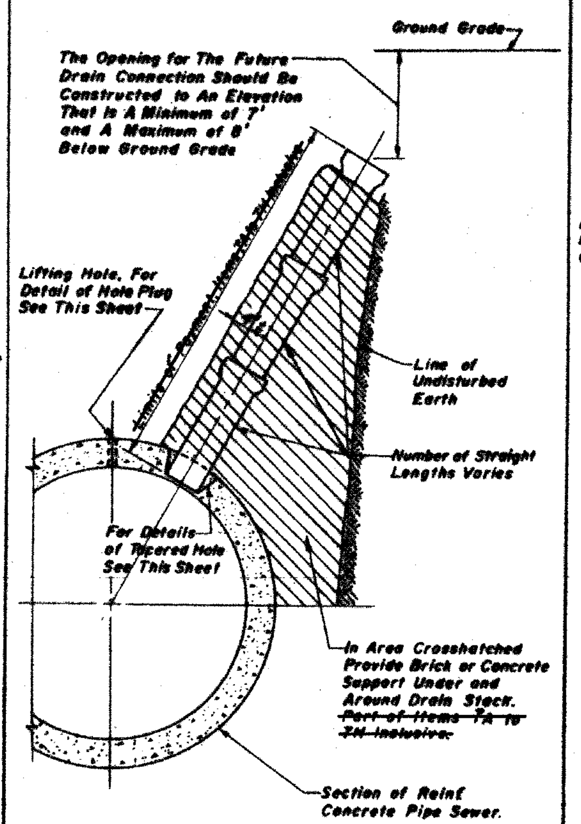
DETAIL OF TAPERED HOLE



ELEVATION

TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS

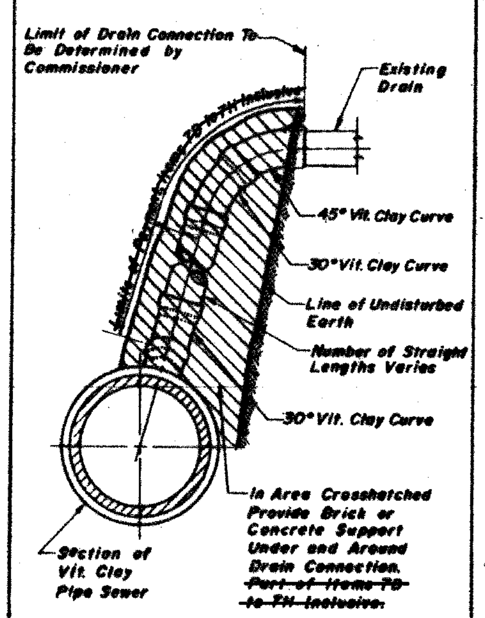
~~Items 7A to 7H Inclusive~~



ELEVATION

TYPICAL DRAIN STACKS FOR FUTURE USE

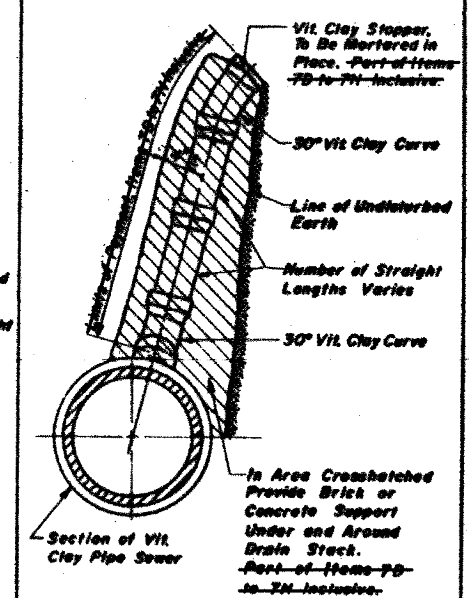
~~Items 7A to 7H Inclusive~~



ELEVATION

TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS

~~Items 7B to 7H Inclusive~~

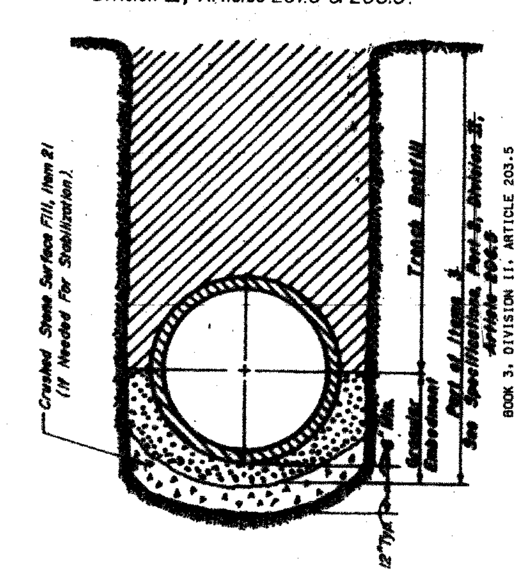


ELEVATION

TYPICAL DRAIN STACKS FOR FUTURE USE

~~Items 7B to 7H Inclusive~~

NOTE: Granular Material Will Be Used As Bedding For All Pipe Sewers; See Specifications, Book 3, Division II, Articles 207.3 & 208.3.



DETAIL OF GRANULAR EMBEDMENT AND STABILIZATION FOR PIPE SEWER

~~SEE SPECIFICATIONS, BOOK 3, DIVISION V, S.P.~~

~~No Scale~~

CITY OF CHICAGO

DEPARTMENT OF WATER MANAGEMENT

BUREAU OF ENGINEERING SERVICES

VITRIFIED CLAY PIPE DRAIN CONNECTIONS

~~SCALE: AS SHOWN~~

CONTRACT SHEET NO.

DRAWN BY REPRODUCTION

CHECKED BY

Scale of Drawing ¾" = 1'-0"

12 6 0 1 2 3 4

All Drain Connection Joints Must Be Made With Oakum and Mortar ~~As Specified in Specifications, Part 2, Article 210.5~~ ~~BOOK 3, DIVISION II, ARTICLE 207.5~~

FOR DUCTILE IRON PIPE DRAIN CONNECTIONS SEE SHEET NO. 8 OF 10

REVISIONS	
DATE	DESCRIPTION
8/26/00	PRELIMINARY PLAN
	APPROVED PLAN

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TYLININTERNATIONAL

REVISIONS	
NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

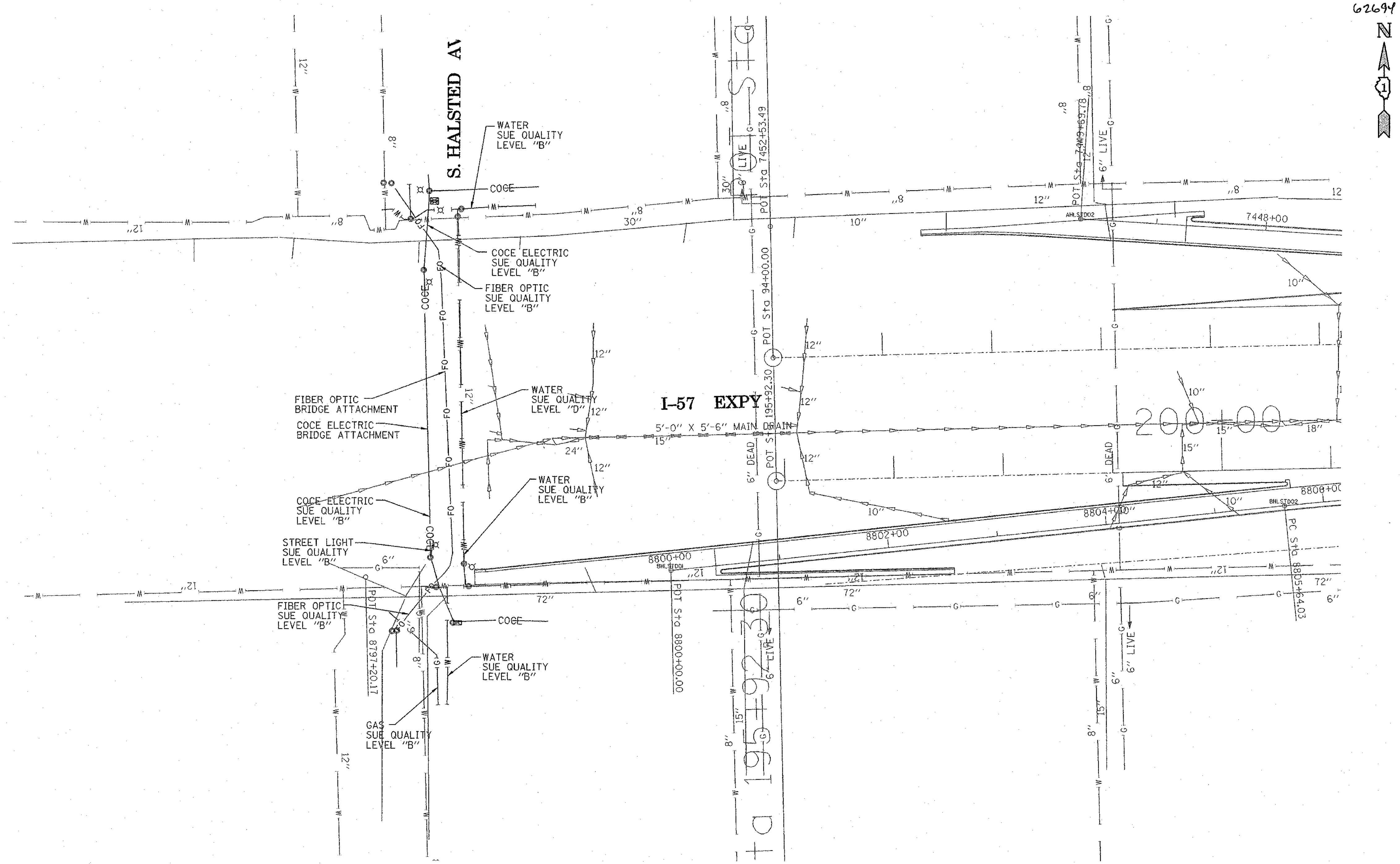
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 9 OF 9)

SCALE: NONE DRAWN BY: MB

DATE: MARCH 18, 2005 CHECKED BY: MPG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	267
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
SOUTHERN REGION: FL,GA,SC,NC
NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA
WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 1 of 30
Checked by: [signature] 06

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Legend	
TS —— TS	TRAFFIC SIGNAL
SL —— SL	STREET LIGHT
COCE	CITY OF CHICAGO ELECTRIC
T —— T	TELEPHONE
W —— W	WATER
G —— G	GAS
CTV —— CTV	CABLE TELEVISION
FO —— FO	FIBER OPTIC
E —— E	ELECTRIC
⊕	TEST HOLE

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

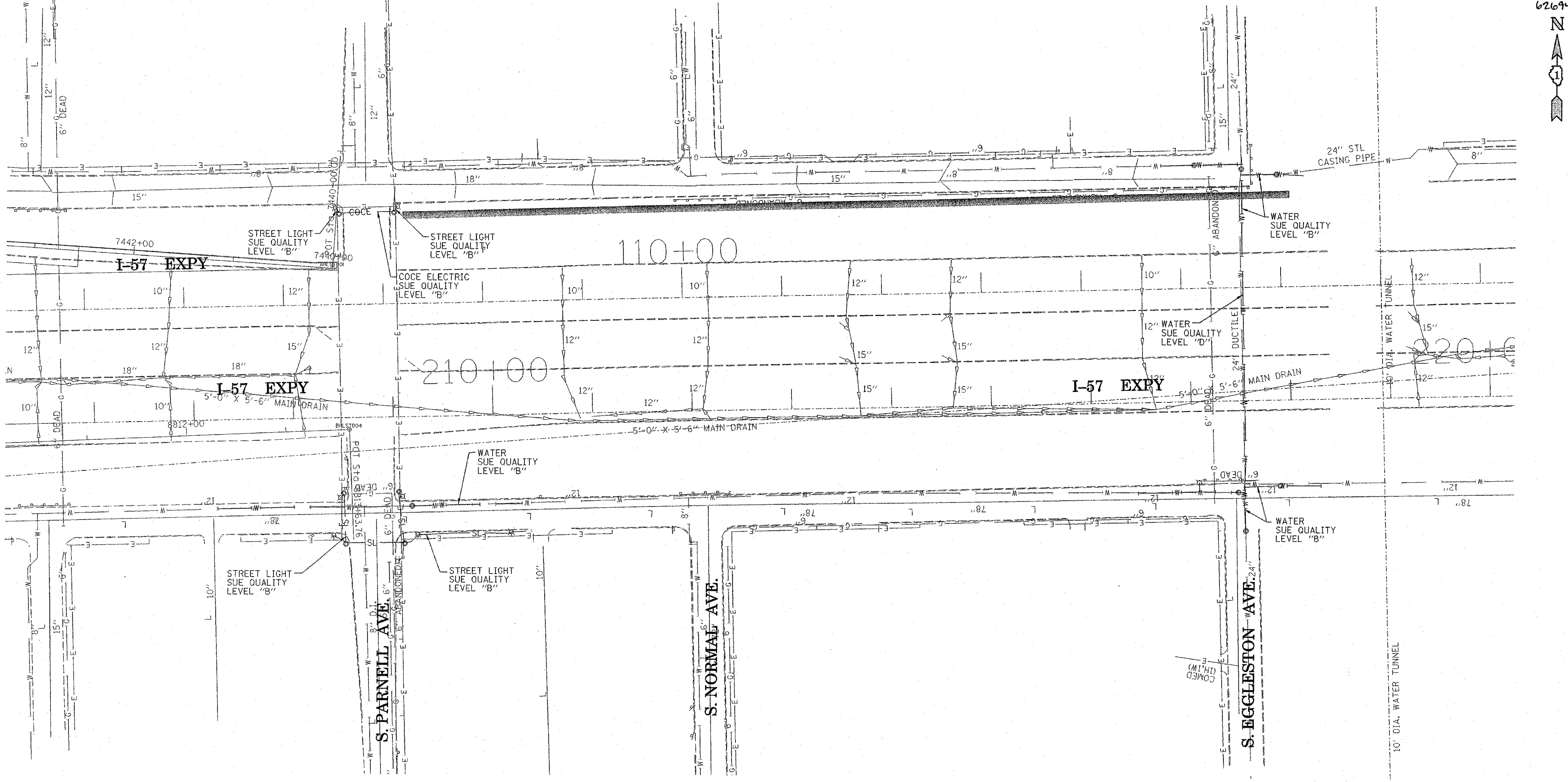
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SOL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	268
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

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WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 2 of 30
Checked by: Sandra Ames PE

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Legend
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
⌖	TEST HOLE

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CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

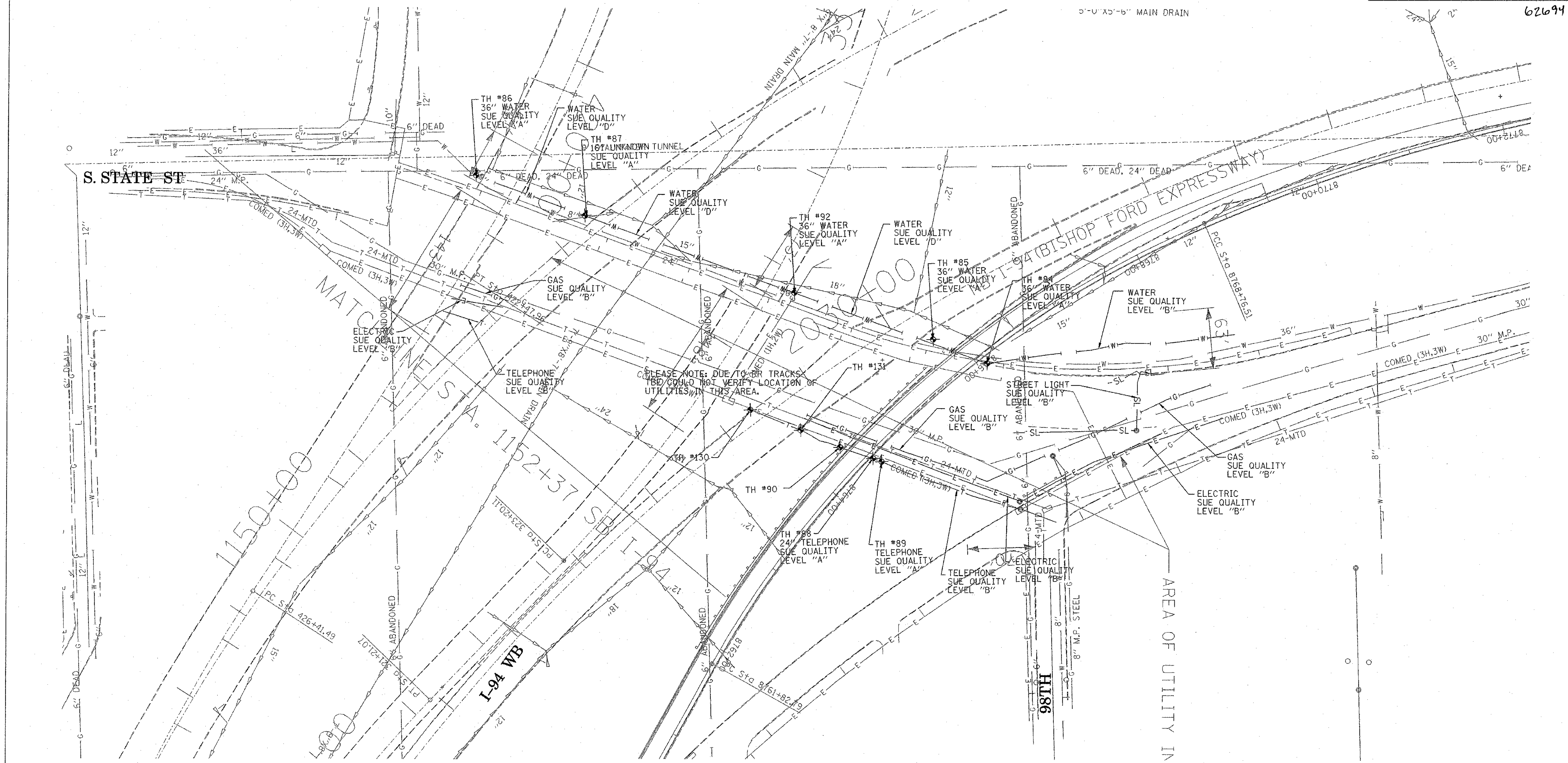
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "B" DATE : 7/22/04

DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516,1.1717 & 1818)-6	Cook	860	269
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
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IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230
TBE SUE PAGE NO: 3 of 36
Checked by: [signature] 3/4/05
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Legend
—TS—TS—	TRAFFIC SIGNAL
—SL—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—T—	TELEPHONE
—W—W—	WATER
—G—G—	GAS
—CTV—CTV—	CABLE TELEVISION
—FO—FO—	FIBER OPTIC
—E—E—	ELECTRIC
⊕	TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

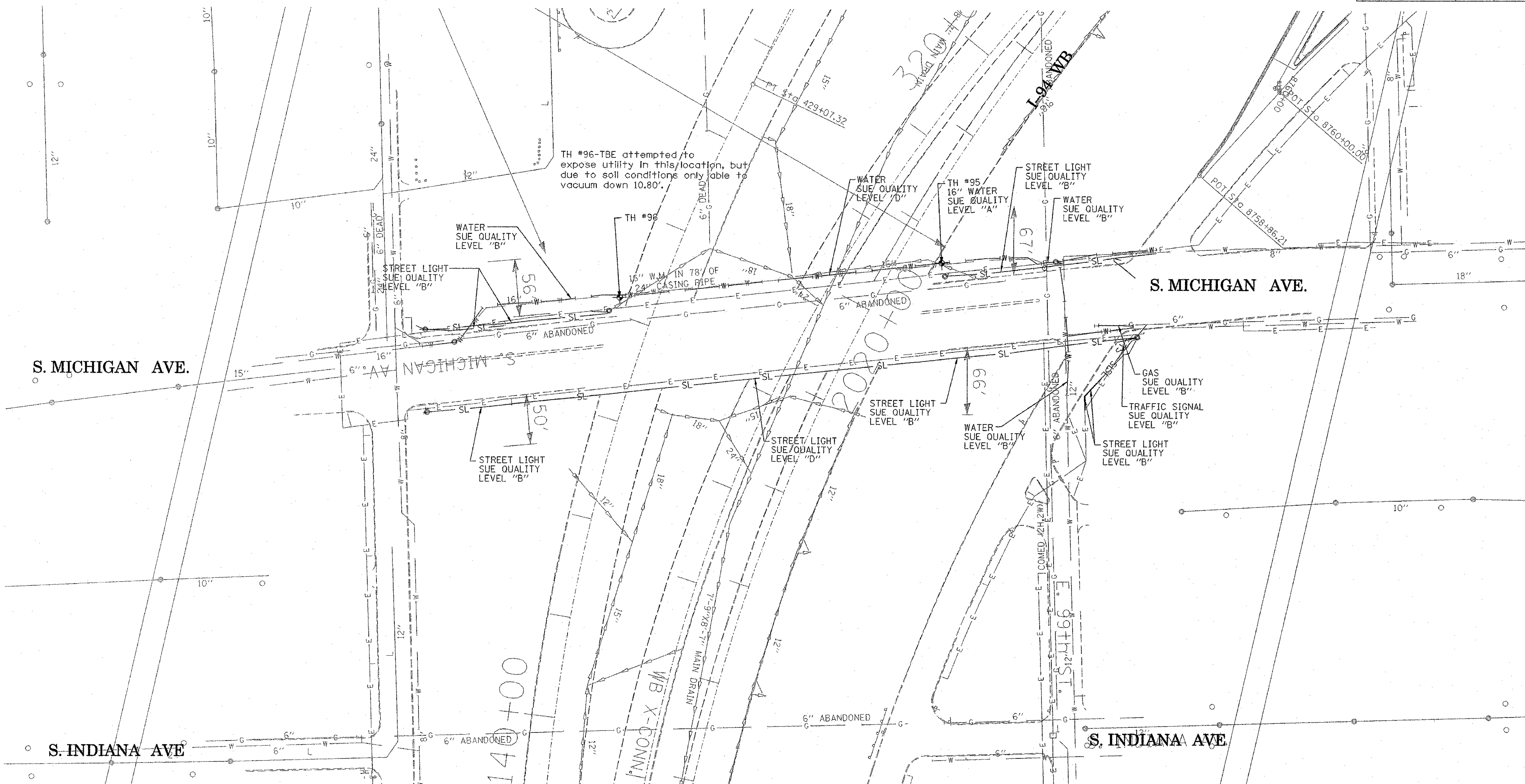
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 2/17/05
SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	270
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
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WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 176, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 4 of 30
Checked by: Sandra Leneo PE
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

- TS — TRAFFIC SIGNAL
- SL — STREET LIGHT
- COCE — CITY OF CHICAGO ELECTRIC
- T — TELEPHONE
- W — WATER
- G — GAS
- CTV — CABLE TELEVISION
- FO — FIBER OPTIC
- E — ELECTRIC
- TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

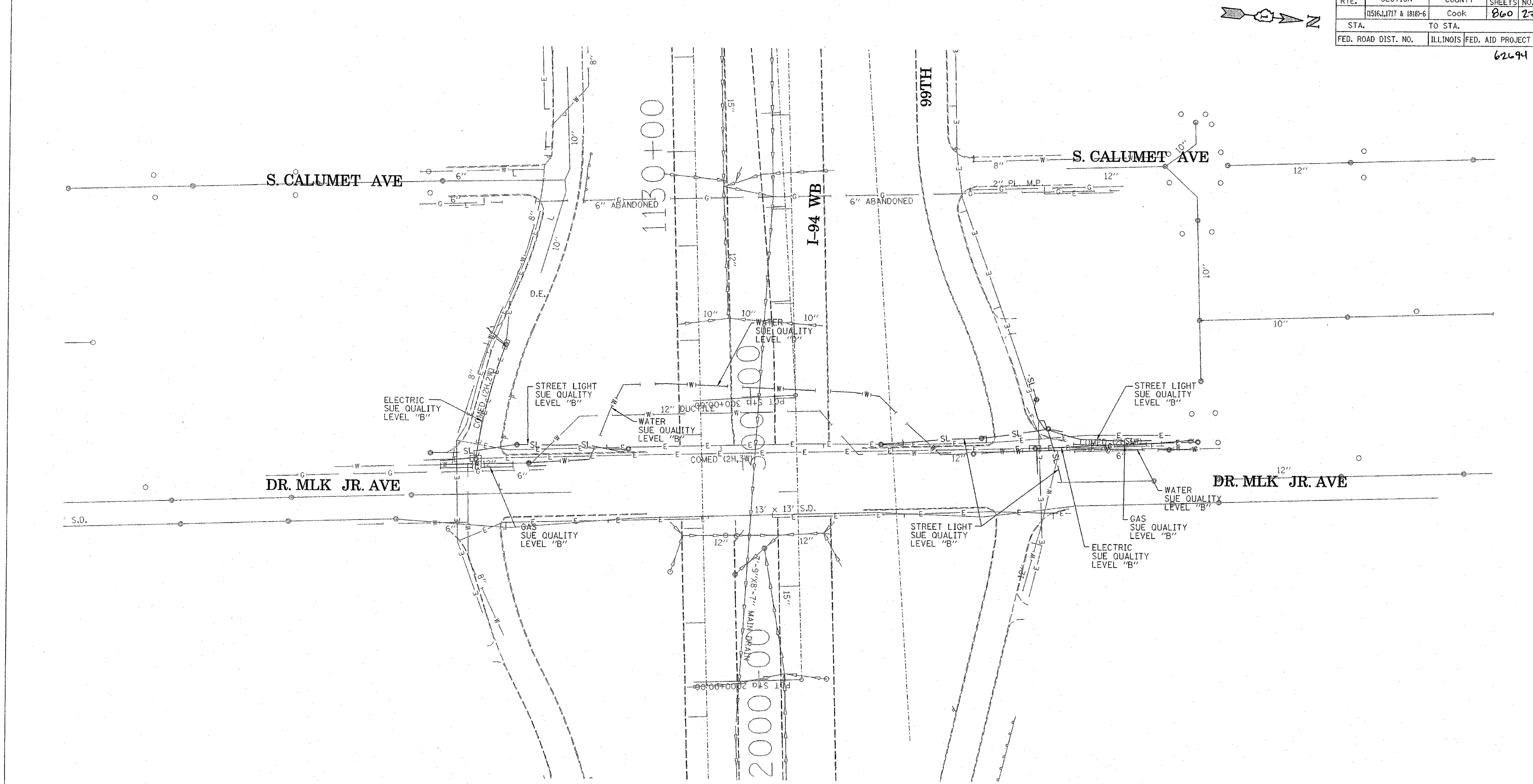
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 12/10/04
SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	271
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

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WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225

TBE SUE PAGE NO: 5 of 30

Checked by: Sandra Flores CE

SUE Quality Level "A" : Test Holes

SUE Quality Level "B" : Designating

TS	TRAFFIC SIGNAL
SL	STREET LIGHT
COCE	CITY OF CHICAGO ELECTRIC
T	TELEPHONE
W	WATER
G	GAS
CTV	CABLE TELEVISION
FO	FIBER OPTIC
E	ELECTRIC
	TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-94 NB & SB of Dan Ryan Expressway From I-57 to 43rd Street

Contract No: 62586, 62589, 62590, 62594, 62693

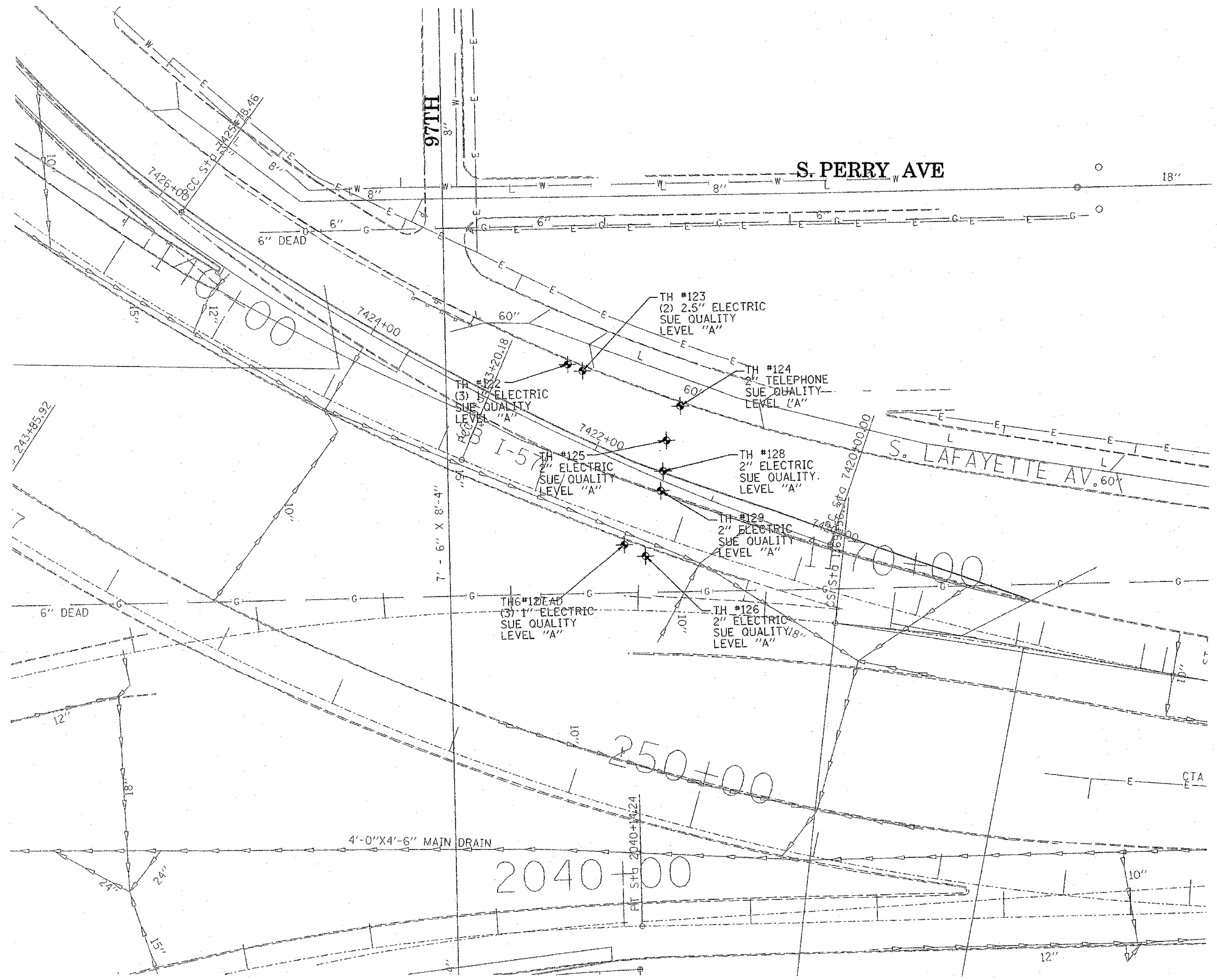
SQL "B" DATE : 7/22/04

DRAWN BY : KLC

SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	272
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62694



SUE Quality Level "B" not requested in this location.

TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
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NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA
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IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230
TBE SUE PAGE NO: 6 of 36
Checked by: [signature] 3/4/05
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
⊕	TEST HOLE

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REVISIONS	
NAME	DATE

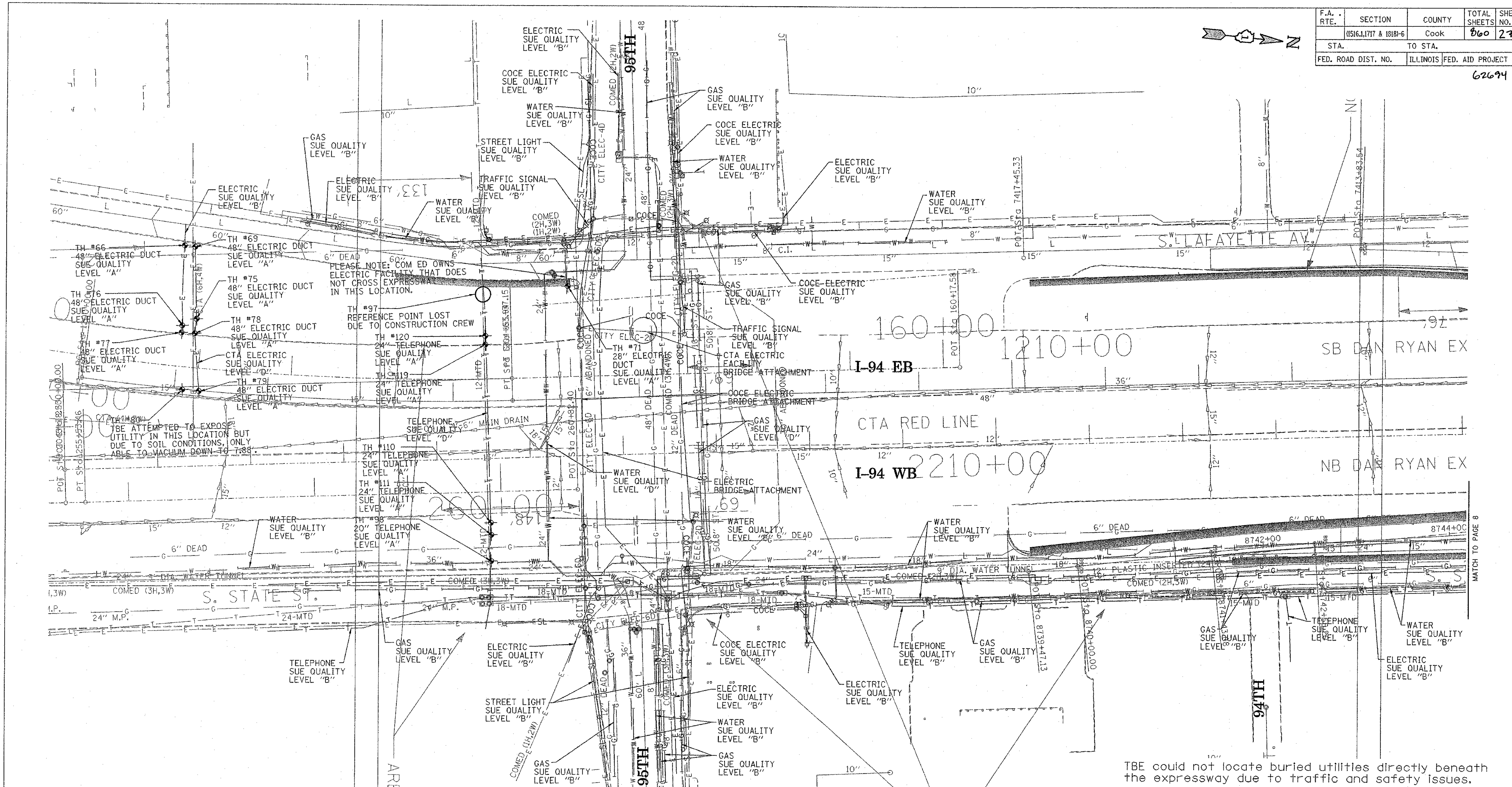
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 2/17/05
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	273
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

CTA could not send as-built plans for review. TBE met with Leo Bazelewski, Testing Engineer for CTA regarding their facilities.

Size given for Electric Duct is width only.

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
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WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230
TBE SUE PAGE NO: 7 of 36
Checked by: [signature] 3/4/05
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Legend	
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

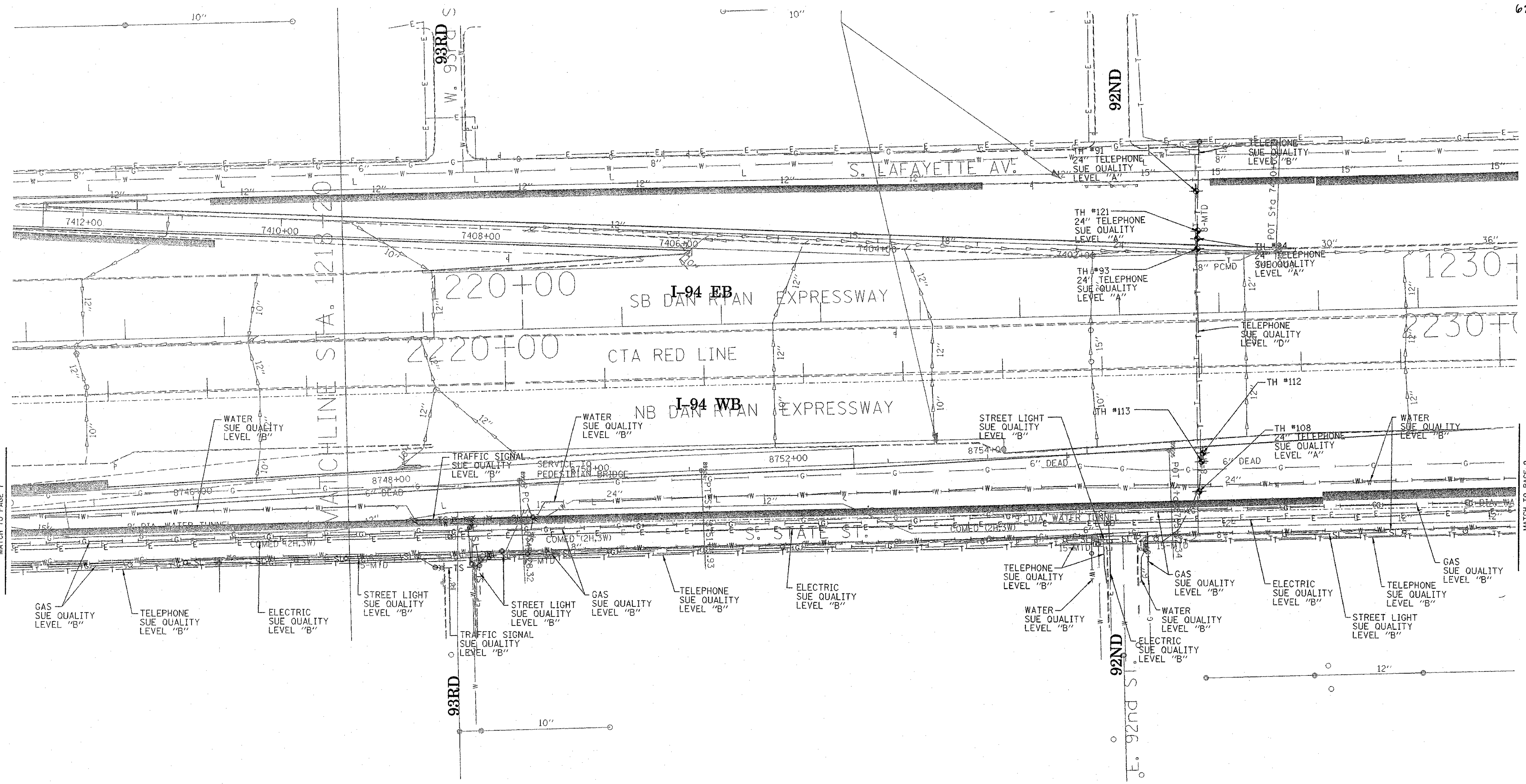
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 2/17/05 DRAWN BY : KLC
SQL "B" DATE : 7/22/04 SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	274
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



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IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230
TBE SUE PAGE NO: 8 of 36
Checked by: [signature] 3/4/05
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Legend	
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
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REVISIONS	
NAME	DATE

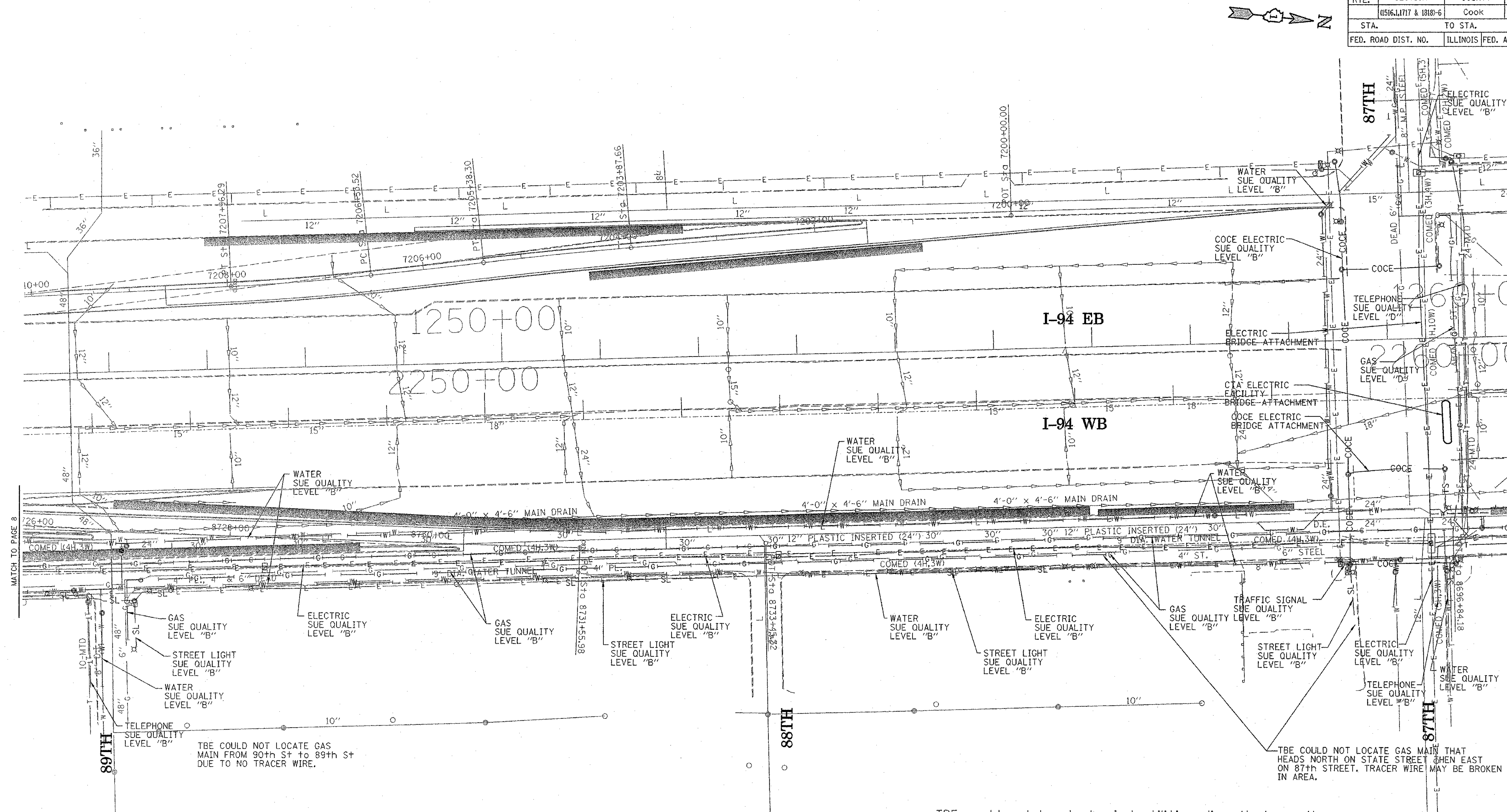
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 2/17/05 DRAWN BY : KLC
SQL "B" DATE : 7/22/04 SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516,1,1717 & 1818)-6	Cook	860	275
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

CTA could not send as-built plans for review. TBE met with Leo Bazelewski, Testing Engineer for CTA regarding their facilities.

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IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 9 of 30
Checked by: [signature]
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Legend
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
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—E—	ELECTRIC
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REVISIONS	
NAME	DATE

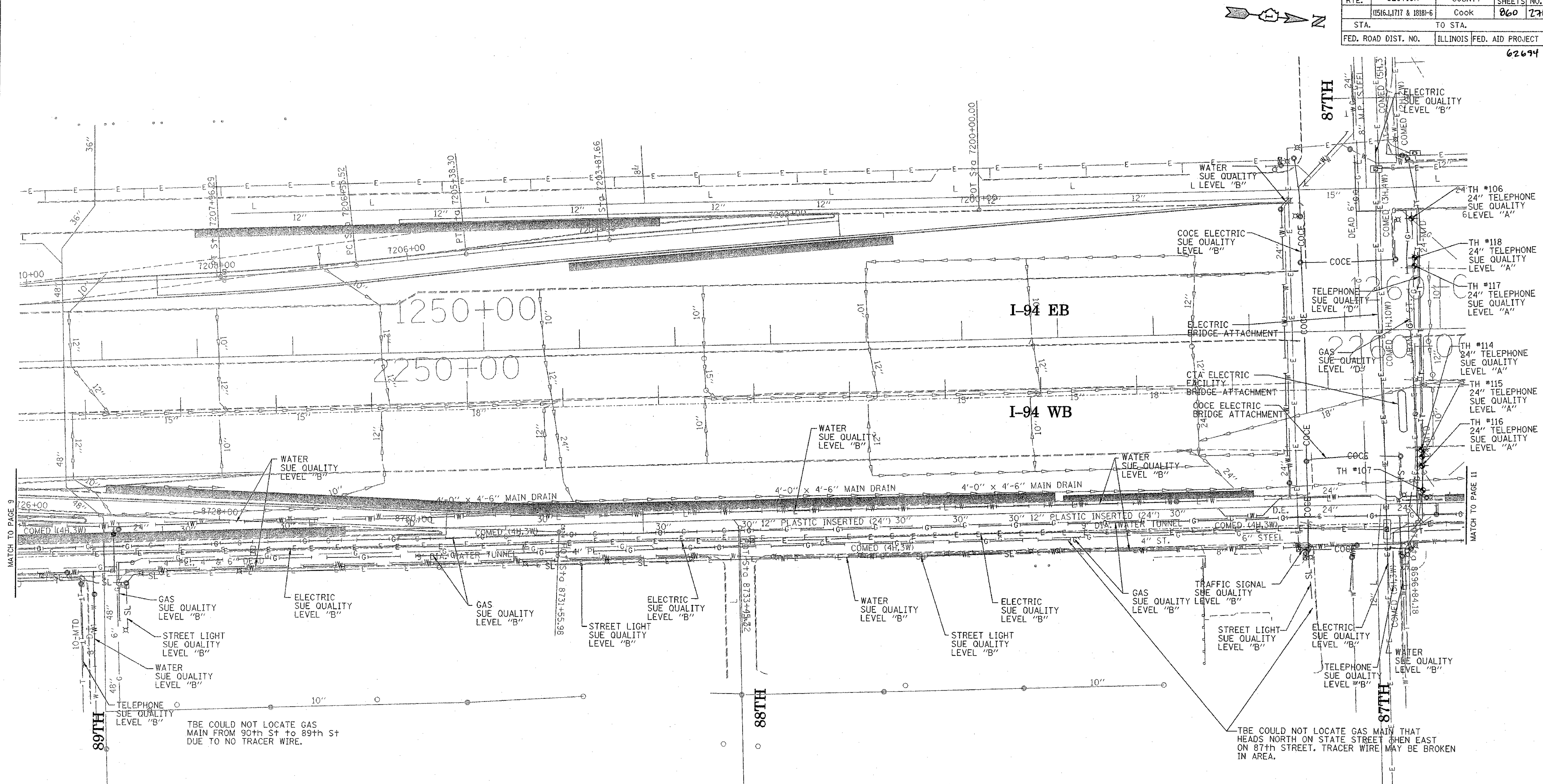
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	276
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



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IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230

TBE SUE PAGE NO: 10 of 36

Checked by: [signature] 3/4/05

SUE Quality Level "A" : Test Holes

SUE Quality Level "B" : Designating

Symbol	Legend
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
— COCE —	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
⊕	TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-94 NB & SB of Dan Ryan Expressway From I-57 to 43rd Street

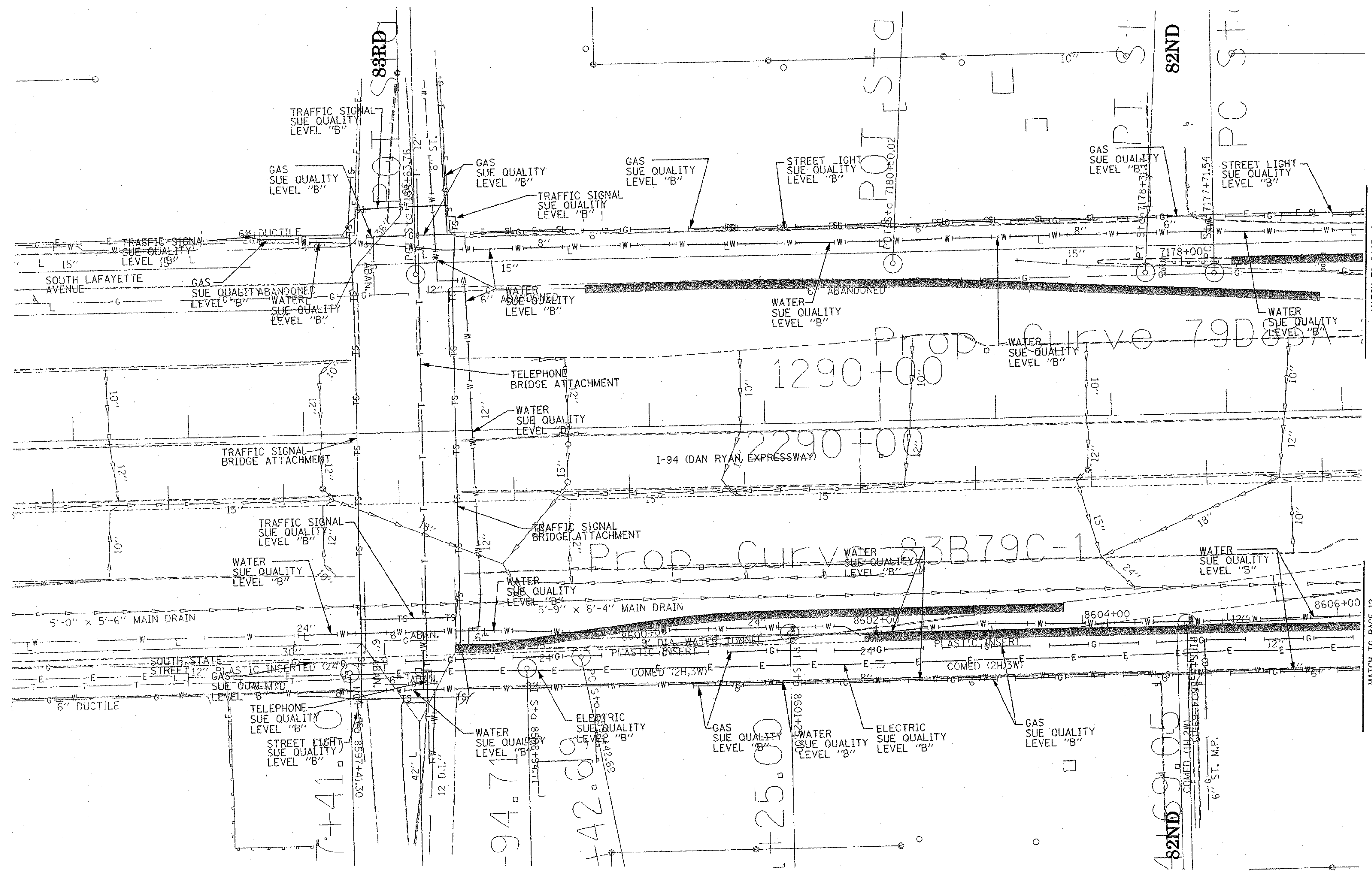
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 2/17/05 DRAWN BY : KLC

SOL "B" DATE : 7/22/04 SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	277
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



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IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 11 of 30
Checked by: Sandra Ames

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Legend
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
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—CTV—	CABLE TELEVISION
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—E—	ELECTRIC
⊕	TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

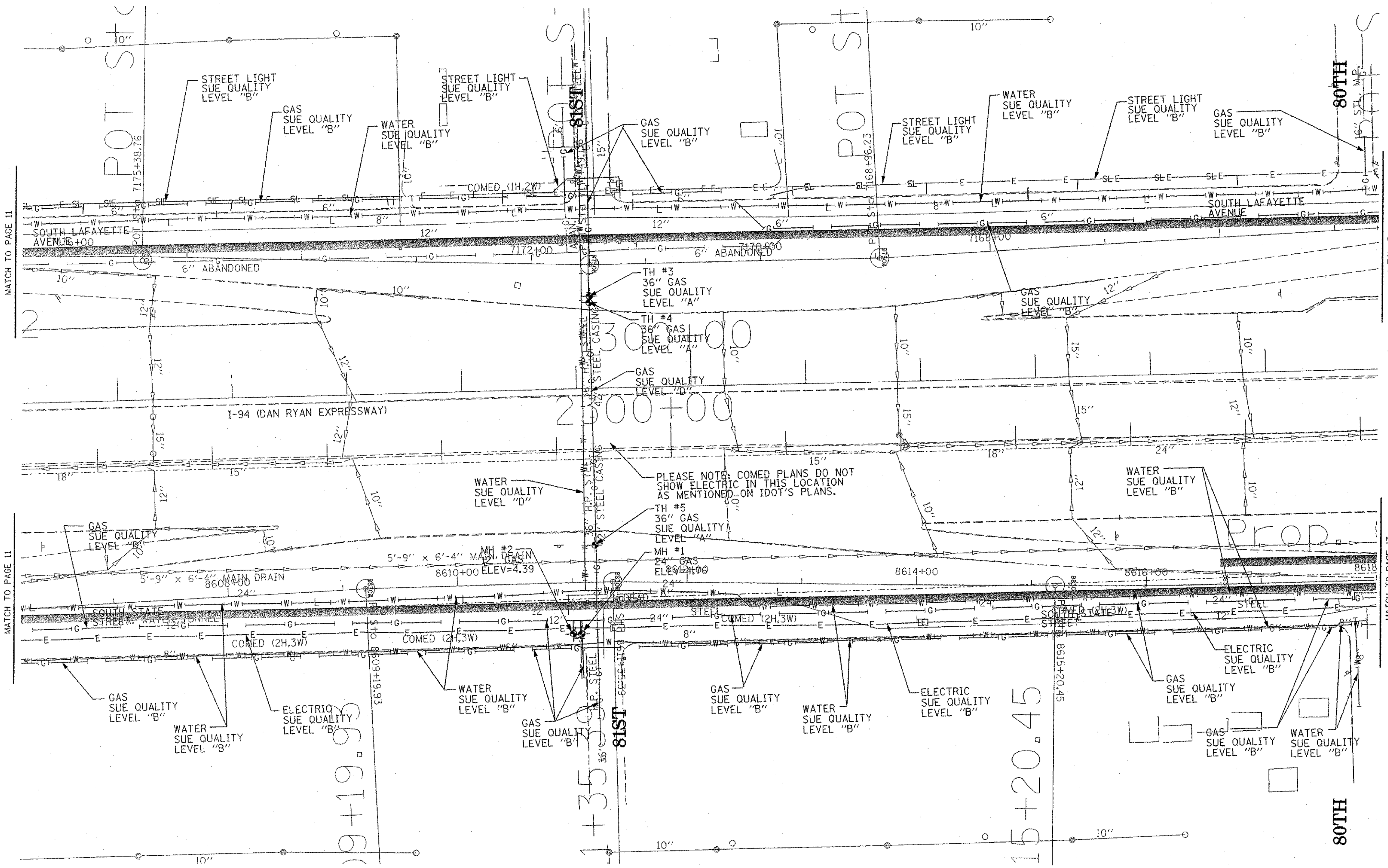
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	278
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

SOUTHERN REGION: FL,GA,SC,NC
NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA
WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 12 of 30
Checked by: [signature]
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Meaning
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
—COCE—	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
⊕	TEST HOLE

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

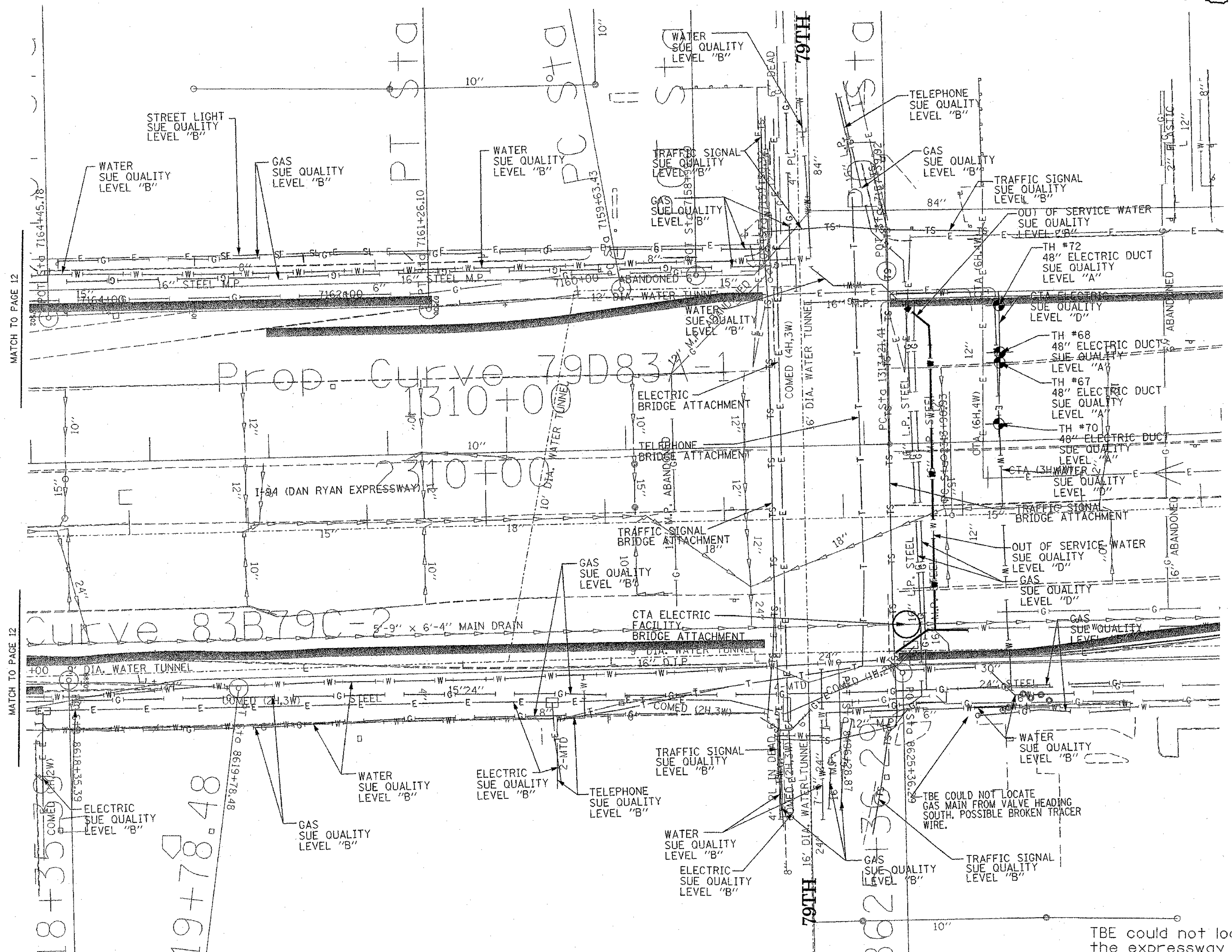
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-90/I-94 Dan Ryan Expressway from I-57. to 69th Street
Contract Number: 62590, 62592, 62594

SQL "A" DATE : 2/07/04
SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	279
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

CTA could not send as-built plans for review. TBE met with Leo Bazelewski, Testing Engineer for CTA regarding their facilities.

Size given for Electric Duct is width only.

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

Legend	
—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
COCE	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—■—	OUT OF SERVICE WATER
—W—	WATER
—G—	GAS
—CTV—	CABLE TELEVISION
—FO—	FIBER OPTIC
—E—	ELECTRIC
⊕	TEST HOLE

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING
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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 13 of 30
Checked by: [signature]
SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

REVISIONS	
NAME	DATE

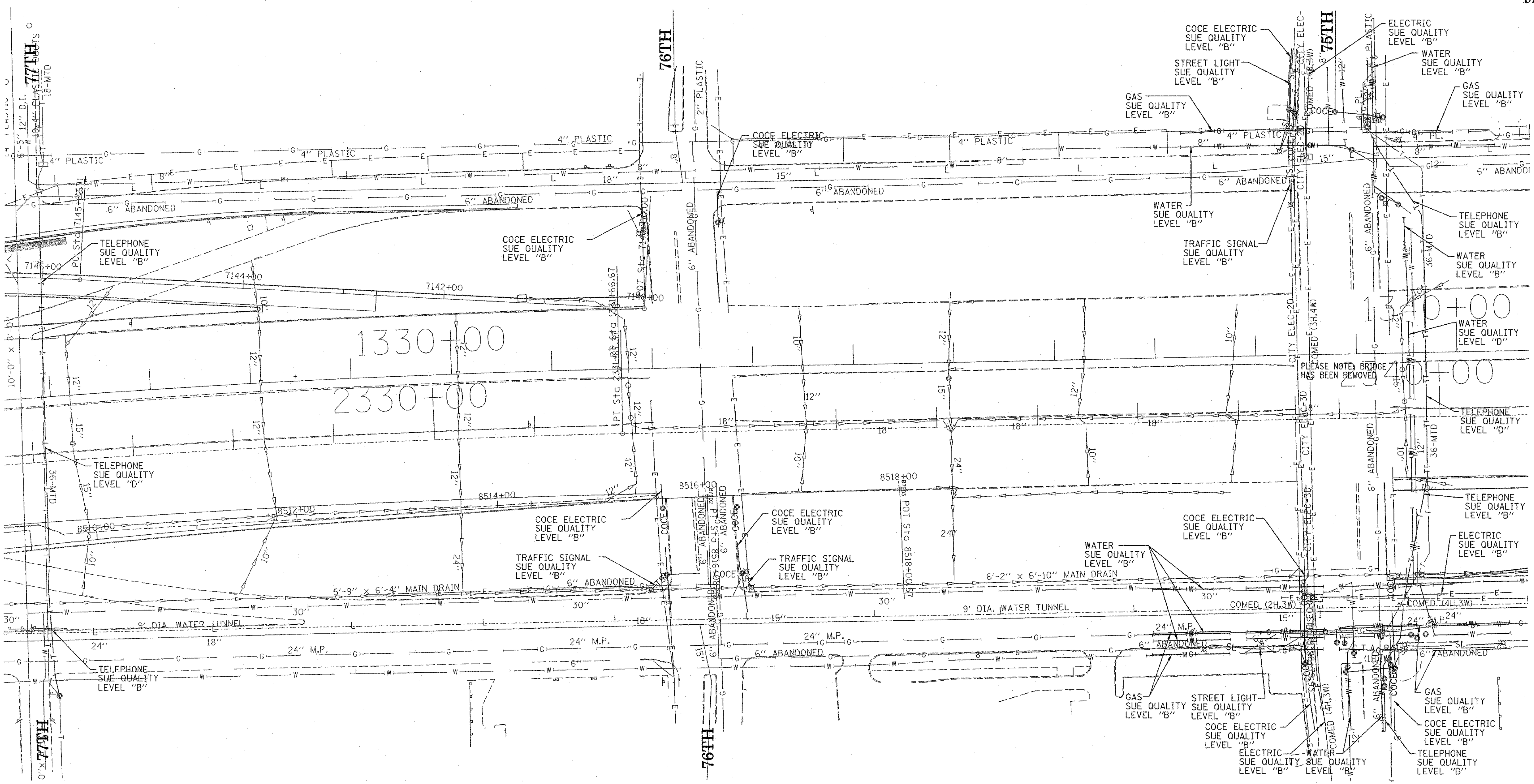
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 10/23/04 — DRAWN BY : KLC
SQL "B" DATE : 7/22/04 — SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	280
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

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NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA
WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 14 of 30
Checked by: Sandra Lena 05

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

Symbol	Legend
—TS—TS—	TRAFFIC SIGNAL
—SL—SL—	STREET LIGHT
— COCE —	CITY OF CHICAGO ELECTRIC
—T—T—	TELEPHONE
—W—	WATER
—G—	GAS
—CTV—CTV—	CABLE TELEVISION
—FO—FO—	FIBER OPTIC
—E—E—	ELECTRIC
⊕	TEST HOLE

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

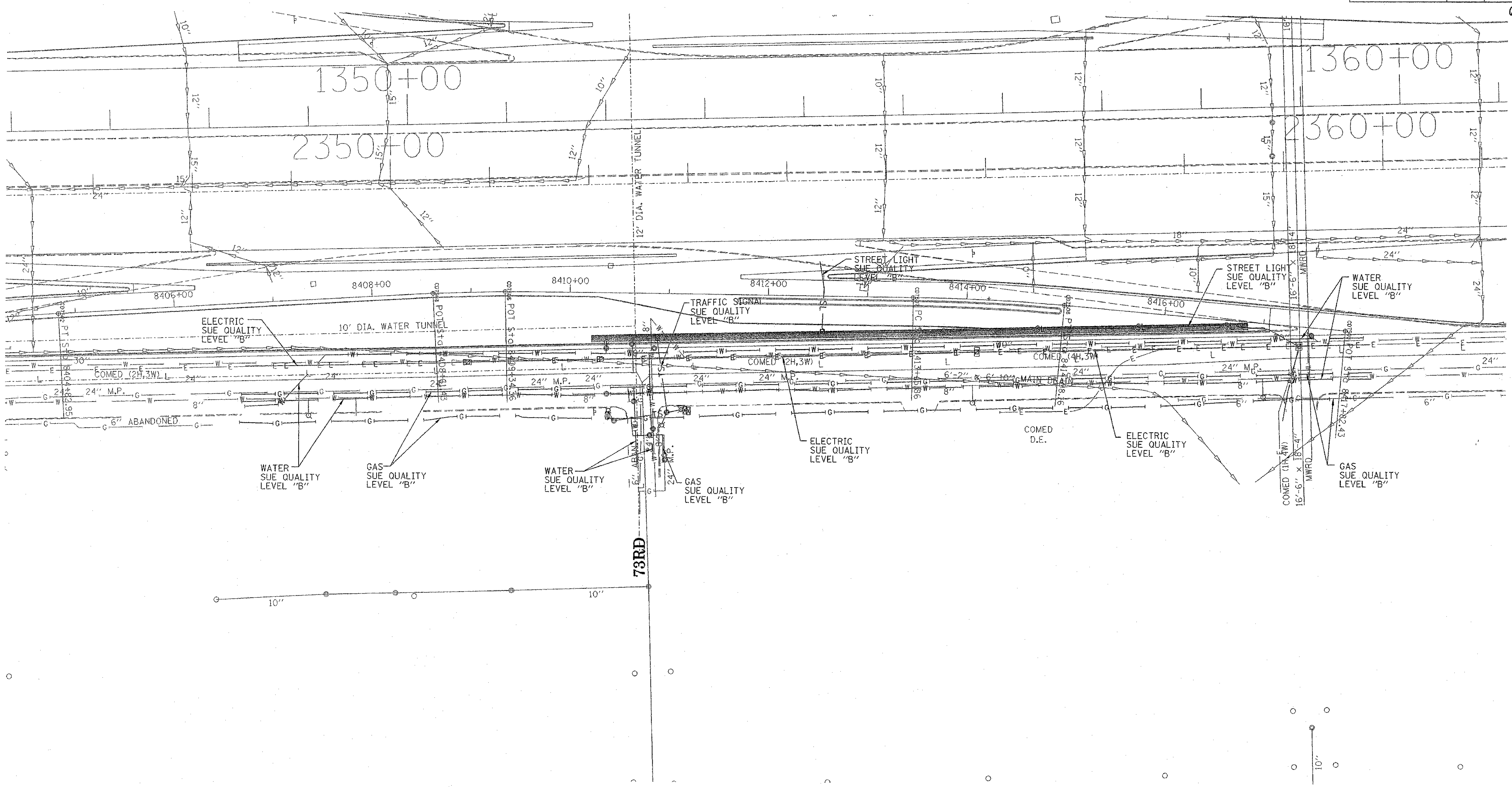
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516.1,1717 & 1818)-6	Cook	860	281
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING-LOCATING
SOUTHERN REGION: FL,GA,SC,NC
NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA
WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 15 of 30
Checked by:

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

- TS — TRAFFIC SIGNAL
- SL — STREET LIGHT
- COCE — CITY OF CHICAGO ELECTRIC
- T — TELEPHONE
- W — WATER
- G — GAS
- CTV — CABLE TELEVISION
- FO — FIBER OPTIC
- E — ELECTRIC
- TEST HOLE

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

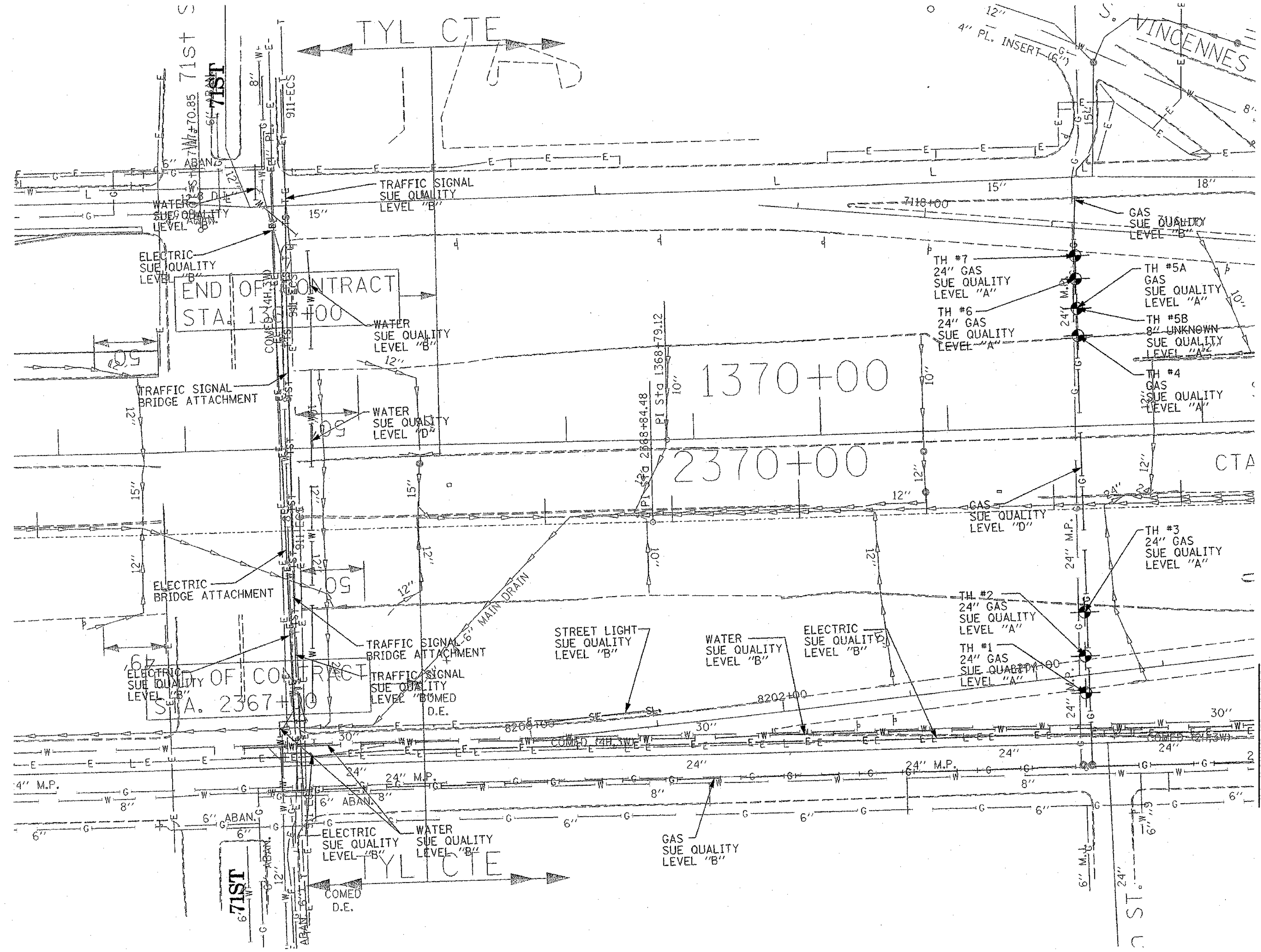
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities
I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1516,1)717 & 1818)-6	Cook	860	282
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62694



TBE GROUP, INC.

CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

SOUTHERN REGION: FL,GA,SC,NC
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WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500167, 168, 170, 171, 179, 180, 204, 205, 206, 211, 212, 219, 221, 225
TBE SUE PAGE NO: 16 of 30
Checked by: Sandra Torres 96

SUE Quality Level "A" : Test Holes
SUE Quality Level "B" : Designating

—TS—	TRAFFIC SIGNAL
—SL—	STREET LIGHT
COCE	CITY OF CHICAGO ELECTRIC
—T—	TELEPHONE
—W—	WATER
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—E—	ELECTRIC
⊕	TEST HOLE

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

TBE could not locate buried utilities directly beneath the expressway due to traffic and safety issues.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-94 NB & SB of Dan Ryan Expressway
From I-57 to 43rd Street
Contract No: 62586, 62589, 62590, 62594, 62693

SQL "A" DATE : 3/19/04
SQL "B" DATE : 7/22/04
DRAWN BY : KLC
SCALE : 1" = 50'

CONTRACT NO.	SHEET NO.
~~62586, 62589, 62693~~ 62694	1

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE		NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
1	20"	G	1867123.035	1175606.560	-1.85	1.50	-0.35	SUE QUALITY LEVEL "A"
2	12"	W	1867115.884	1175606.924	-1.53	1.13	-0.40	SUE QUALITY LEVEL "A"
3	20"	G	1867122.650	1175602.392	-0.08	0.69	0.61	SUE QUALITY LEVEL "A"
4	20"	G	1867122.945	1175609.366	-6.36	5.41	-0.95	SUE QUALITY LEVEL "A"
5	20"	G	1867132.835	1175901.810	-4.63	3.39	-1.24	SUE QUALITY LEVEL "A"
6	20"	G	1867132.928	1175905.856	-2.34	2.74	0.40	SUE QUALITY LEVEL "A"
7	20"	G	1867132.947	1175910.232	0.11	1.93	2.04	SUE QUALITY LEVEL "A"
8	20"	G	1867132.990	1175897.762	-5.44	3.49	-1.95	SUE QUALITY LEVEL "A"
1A	20"	G	1861211.910	1177445.200	15.85	3.65	19.50	SUE QUALITY LEVEL "A"
2A	8"	W	1861211.860	1177441.360	14.70	4.87	19.57	SUE QUALITY LEVEL "A"
3A	6"	G	1861211.740	1177450.260	15.19	4.18	19.37	SUE QUALITY LEVEL "A"
4A	6"	G	1861598.210	1177437.850	15.50	4.43	19.93	SUE QUALITY LEVEL "A"
5A	20"	G	1861598.200	1177433.420	17.22	2.82	20.04	SUE QUALITY LEVEL "A"
6A	8"	W	1861597.270	1177429.100	15.66	4.42	20.08	SUE QUALITY LEVEL "A"
7A	SEE NOTE		1862113.690	1176035.420	——	7.29	0.33	SEE NOTE
8A	SEE NOTE		1862704.020	1176033.590	-6.74	5.31	-1.43	SUE QUALITY LEVEL "A"
9	16"	G	1863104.250	1175969.140	-2.44	4.55	2.11	SUE QUALITY LEVEL "A"
10	16"	G	1863104.500	1175976.510	-1.83	5.77	3.94	SUE QUALITY LEVEL "A"
11	16"	G	1863104.750	1175982.670	0.42	5.48	5.90	SUE QUALITY LEVEL "A"
12	*42"	E	1863114.170	1175968.110	-2.35	4.64	2.29	SUE QUALITY LEVEL "A"
13	*42"	E	1863114.830	1175975.120	-2.35	6.43	4.08	SUE QUALITY LEVEL "A"
14	*42"	E	1863116.050	1175983.240	-2.34	9.02	6.68	SUE QUALITY LEVEL "A"
14A	12"	W	1863125.770	1175969.560	-2.99	5.96	2.97	SUE QUALITY LEVEL "A"
15	2x*18"	BT	1863258.330	1175962.750	-6.25	9.98	3.73	SUE QUALITY LEVEL "A"
16	2X*18"	BT	1863256.850	1175970.740	-3.14	9.44	6.30	SUE QUALITY LEVEL "A"
17	2x*18"	BT	1863255.680	1175981.210	-3.00	12.97	9.97	SUE QUALITY LEVEL "A"
18	2x*18"	BT	1863254.030	1175661.690	-5.00	8.95	3.95	SUE QUALITY LEVEL "A"
19	2x*18"	BT	1863252.560	1175654.200	-4.38	11.01	6.63	SUE QUALITY LEVEL "A"
20	2x*18"	BT	1863250.510	1175644.060	-3.62	13.39	9.77	SUE QUALITY LEVEL "A"
21	*42"	E	1863105.180	1175669.260	0.89	3.54	4.43	SUE QUALITY LEVEL "A"
22	*42"	E	1863105.160	1175660.820	-1.00	7.50	6.50	SUE QUALITY LEVEL "A"

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE		NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
23	*42"	E	1863105.310	1175651.280	-0.63'	10.05'	9.42'	SUE QUALITY LEVEL "A"
24	16"	G	1863097.580	1175669.900	0.15'	4.36'	4.51'	SUE QUALITY LEVEL "A"
25	16"	G	1863097.130	1175661.950	1.09'	5.01'	6.10'	SUE QUALITY LEVEL "A"
26	16"	G	1863096.690	1175655.260	1.53'	6.63'	8.16'	SUE QUALITY LEVEL "A"
27	*18"	BT	1865094.940	1175582.150	0.35'	11.57'	11.92'	SUE QUALITY LEVEL "A"
28	*18"	BT	1865097.810	1175578.180	1.03'	12.10'	13.13'	SUE QUALITY LEVEL "A"
29	*18"	BT	1865100.160	1175573.950	2.11'	12.35'	14.46'	SUE QUALITY LEVEL "A"
30	*36"	E	1865099.910	1175578.500	-3.55'	16.71'	13.16'	SUE QUALITY LEVEL "A"
31	*36"	E	1865103.162	1175573.669	-2.89'	17.47'	14.58'	SUE QUALITY LEVEL "A"
32	*36"	E	1865097.615	1175581.930	-3.91'	15.88'	11.97'	SUE QUALITY LEVEL "A"
33	*36"	E	1865124.435	1175973.073	0.82'	13.43'	14.25'	SUE QUALITY LEVEL "A"
34	*18"	BT	1865090.975	1175932.544	-4.41'	6.37'	1.96'	SUE QUALITY LEVEL "A"
35	*36"	E	1865105.924	1175934.833	-4.59'	7.05'	2.46'	SUE QUALITY LEVEL "A"
36	*36"	E	1865120.467	1175968.691	-0.94'	14.14'	13.20'	SUE QUALITY LEVEL "A"
37	*18"	BT	1865098.448	1175972.477	2.26'	10.37'	12.63'	SUE QUALITY LEVEL "A"
38	*18"	BT	1865095.321	1175968.307	-0.23'	12.22'	11.99'	SUE QUALITY LEVEL "A"
39	See Note	G	1873623.853	1175722.432	——	16.00'	12.60'	CLEARANCE DEPTH
40	20"	G	1873624.086	1175713.696	-6.36'	16.78'	10.42'	SUE QUALITY LEVEL "A"
41	20"	G	1873629.270	1175680.376	-10.19'	9.14'	-1.05'	SUE QUALITY LEVEL "A"
42	20"	G	1873630.734	1175671.020	-12.73'	9.01'	-3.72'	SUE QUALITY LEVEL "A"
43	20"	G	1873631.833	1175664.164	-13.65'	7.75'	-5.90'	SUE QUALITY LEVEL "A"
44	20"	G	1873662.688	1175369.141	-3.90'	4.72'	0.82'	SUE QUALITY LEVEL "A"
45	20"	G	1873663.608	1175361.458	-2.90'	5.76'	2.86'	SUE QUALITY LEVEL "A"
46	20"	G	1873664.488	1175351.804	-0.50'	5.98'	5.48'	SUE QUALITY LEVEL "A"
47	20"	G	1873661.260	1175377.470	-4.21'	3.61'	-0.60'	SUE QUALITY LEVEL "A"
48	*36"	E	1865096.950	1175617.420	-3.95'	5.91'	1.96'	SUE QUALITY LEVEL "A"
48A	(3)1/2"	UNK	1865098.890	1175616.560	-1.25'	3.20'	1.95'	SUE QUALITY LEVEL "A"
49	20"	G	1873654.520	1175434.880	-6.86'	4.54'	-2.32'	SUE QUALITY LEVEL "A"
50	*36"	E	1865097.950	1175663.360	-4.48'	6.85'	2.37'	SUE QUALITY LEVEL "A"
51	*18"	BT	1865085.150	1175663.290	-5.46'	7.73'	2.27'	SUE QUALITY LEVEL "A"
52	*18"	BT	1865085.030	1175617.240	-4.60'	6.57'	1.97'	SUE QUALITY LEVEL "A"

TBE Project Information

* Size given is duct width only.

TH#7A unable to determine object found due to water & soil collapsing.

TH#8A found old wood RR ties laid straight in direction of duct. Could not expose utility, however, SBC confirmed that the duct is directly below RR ties. The existing cut is to top of RR ties.

TH#39 TBE could not physically see gas main. Dug to 16' got electronic depth of 19.5'.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)
Chicago-Cook County
Sec No: (2122-921 PT1) R, (2021-922 PTI,2)
Contract No. 62586, 62589, 62693
TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/4/05	REC	QA/QC															

TBE GROUP, INC.
SOUTHERN REGION: FL, GA, SC, NC
NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY PA, VA, CANADA
WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA

VERIFIED UTILITY LOCATIONS

CONTRACT NO.	SHEET NO.
~~62586,62589,62693,62305,62306~~ 62694	X

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
53	*18" BT	1865113.010	1175555.020	4.67'	14.33'	19.00'	SUE QUALITY LEVEL "A"
54	See Note E	1865117.050	1175555.790	——	18.59'	18.99'	CLEARANCE DEPTH ONLY
55	*18" BT	1865108.400	1175989.320	9.85'	9.02'	18.87'	SUE QUALITY LEVEL "A"
55A	24" SAN	1865109.300	1175987.610	11.77'	7.10'	18.87'	SUE QUALITY LEVEL "A"
56	*36" E	1865136.380	1175984.770	3.20'	15.68'	18.88'	SUE QUALITY LEVEL "A"
56A	24" SAN	1865138.320	1175986.600	11.93'	6.92'	18.85'	SUE QUALITY LEVEL "A"
57	*18" BT	1865091.120	1175928.050	-5.77'	7.13'	1.36'	SUE QUALITY LEVEL "A"
58	*36" E	1865105.640	1175928.120	-4.59'	6.03'	1.44'	SUE QUALITY LEVEL "A"
59	*36" E	1865104.390	1175856.480	-4.90'	7.41'	2.51'	SUE QUALITY LEVEL "A"
60	*18" BT	1865090.480	1175856.950	-5.29'	7.65'	2.36'	SUE QUALITY LEVEL "A"

MAN HOLE #	TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE MH RIM ELEVATION	COMMENTS
61	Telephone	1863240.510	1175610.790	*1.41'	19.13'	20.54'	SUE QUALITY LEVEL "A"

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
62	*48" E	1876425.900	1176044.730	-6.88'	3.44'	-3.44'	SUE QUALITY LEVEL "A"
63	*48" E	1876427.860	1176056.140	-4.87'	4.14'	-0.73'	SUE QUALITY LEVEL "A"
64	*48" E	1876443.770	1176104.400	4.13'	8.39'	12.52'	SUE QUALITY LEVEL "A"
65	*48" E	1863237.110	1175774.930	-1.66'	4.62'	2.96'	SUE QUALITY LEVEL "A"
66	*48" E	1841495.350	1177598.790	8.42'	7.24'	15.66'	SUE QUALITY LEVEL "A"
67	*48" E	1852792.550	1177384.230	-10.35'	4.37'	-5.98'	SUE QUALITY LEVEL "A"
68	*48" E	1852792.730	1177375.900	-8.91'	4.03'	-4.88'	SUE QUALITY LEVEL "A"
69	*48" E	1841506.530	1177600.310	7.60'	8.15'	15.75'	SUE QUALITY LEVEL "A"
70	*48" E	1852792.330	1177435.710	-12.58'	5.65'	-6.93'	SUE QUALITY LEVEL "A"
71	*28" E	1841906.380	1177641.010	12.54'	3.46'	16.00'	SUE QUALITY LEVEL "A"
72	*48" E	1852791.510	1177336.410	1.83'	7.76'	9.59'	SUE QUALITY LEVEL "A"
73	*48" E	1876423.560	1175920.080	-12.48'	8.82'	-3.66'	SUE QUALITY LEVEL "A"
74	*48" E	1863227.820	1175613.390	8.97'	11.23'	20.20'	SUE QUALITY LEVEL "A"
75	*48" E	1841508.250	1177677.360	-7.19'	4.61'	-2.58'	SUE QUALITY LEVEL "A"
76	*48" E	1841493.000	1177684.360	-7.65'	4.53'	-3.12'	SUE QUALITY LEVEL "A"
77	*48" E	1841492.150	1177692.100	-7.95'	7.02'	-0.93'	SUE QUALITY LEVEL "A"

TBE Project Information

* Size given is duct width only.
TH#54 TBE could not reach utility due to depth, Clearance given.
MH#61 Man Hole elevation to top of phone cables exiting man hole.
TH#80 Could not expose utilities due to extremely hard clay. Clearance depth of 7.88' given.
TH#81 Appears to be a 34" poured in place concrete cap over CTA conduit.
TH#87 found a 16" pipe but was unable to see it due to water table. Probed another 3' down past pipe, unable to find 36" w/m electronic Depth 24'
TH#89 Utility not exposed due to excessive water in hole.
TH#90 Utility not exposed, clearance depth of 13.65'.
TH#96 Utility not exposed, clearance depth of 10.80'.
TH#97 Reference point destroyed by construction crews before survey could be completed. Material was unidentifiable.
TH#104 Concrete cap poured over utility.
TH#107 Utility not exposed, clearance depth of 16.79'.

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
78	*48" E	1841506.430	1177692.980	-8.94'	7.98'	-0.96'	SUE QUALITY LEVEL "A"
79	*48" E	1841510.920	1177755.020	-9.22'	10.16'	0.94'	SUE QUALITY LEVEL "A"
80	SEE NOTE E	1841493.150	1177753.350	——	7.88'	1.00'	CLEARANCE DEPTH ONLY
81	SEE NOTE E	1852793.298	1177394.984	-11.95'	4.69'	-7.26'	SUE QUALITY LEVEL "A"
82	*48" E	1863234.932	1175653.520	-0.86'	7.66'	6.80'	SUE QUALITY LEVEL "A"
83	*48" E	1863235.070	1175661.514	-1.64'	5.94'	4.31'	SUE QUALITY LEVEL "A"
84	36" W	1839944.740	1178217.900	-5.13'	2.96'	-2.17'	SUE QUALITY LEVEL "A"
85	36" W	1839889.120	1178193.100	-13.96'	8.61'	-5.35'	SUE QUALITY LEVEL "A"
86	36" W	1839415.910	1178025.040	-1.59'	3.05'	1.46'	SUE QUALITY LEVEL "A"
87	16" UNK	1839528.800	1178066.220	-3.15'	10.03'	6.88'	SUE QUALITY LEVEL "A"
88	24" TEL	1839826.880	1178316.500	-6.59'	7.19'	0.60'	SUE QUALITY LEVEL "A"
89	SEE NOTE TEL	1839836.600	1178319.800	-5.49'	5.98'	0.49'	SUE QUALITY LEVEL "A"
90	SEE NOTE TEL	1839793.600	1178305.180	——	13.65'	0.40'	CLEARANCE DEPTH ONLY
91	24" TEL	1844059.140	1177578.380	13.58'	2.89'	16.47'	SUE QUALITY LEVEL "A"
92	36" W	1839745.710	1178145.690	-18.57'	9.32'	-9.25'	SUE QUALITY LEVEL "A"
93	24" BT	1844060.690	1177635.830	-6.44'	7.25'	0.81'	SUE QUALITY LEVEL "A"
94	24" BT	1844060.680	1177625.600	-3.42'	6.54'	3.12'	SUE QUALITY LEVEL "A"
95	16" W	1839246.750	1178863.580	-6.12'	3.82'	-2.30'	SUE QUALITY LEVEL "A"
96	SEE NOTE W	1838928.400	1178898.950	——	10.80'	-1.39'	CLEARANCE DEPTH ONLY
97	18" BT				6.12'		NOT SURVEYED
98	20" BT	1841825.960	1177936.970	6.82'	8.10'	14.92'	SUE QUALITY LEVEL "A"
99	36" W	1874261.670	1175871.220	-1.10'	3.83'	2.73'	SUE QUALITY LEVEL "A"
100	36" W	1874261.650	1175880.560	1.35'	3.90'	5.25'	SUE QUALITY LEVEL "A"
101	36" W	1874245.970	1175540.410	-2.86'	4.69'	1.83'	SUE QUALITY LEVEL "A"
102	36" W	1874245.820	1175531.730	-0.50'	4.56'	4.06'	SUE QUALITY LEVEL "A"
103	36" W	1874244.500	1175483.430	11.43'	4.34'	15.77'	SUE QUALITY LEVEL "A"
104	SEE NOTE W	1874262.410	1175925.500	13.62'	3.18'	16.80'	SUE QUALITY LEVEL "A"
105	36" W	1874245.260	1175675.910	-2.22'	2.72'	0.50'	SUE QUALITY LEVEL "A"
106	18" BT	1847350.430	1177491.230	-0.33'	8.75'	8.42'	SUE QUALITY LEVEL "A"
107	SEE NOTE BT	1847365.000	1177775.620	——	16.79'	7.85'	CLEARANCE DEPTH ONLY
108	24" BT	1844064.680	1177880.760	6.97'	9.52'	16.49'	SUE QUALITY LEVEL "A"
109	36" W	1874248.230	1175729.730	-1.93'	3.19'	1.26'	SUE QUALITY LEVEL "A"

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)
Chicago-Cook County
Sec No: (2122-921 PT1) R, (2021-922 PTI,2)
Contract No. 62586, 62589, 62693
TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/9/05	RC	QA/QC															

TBE GROUP, INC.
SOUTHERN REGION: FL, GA, SC, NC
NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY PA, VA, CANADA
WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA

VERIFIED UTILITY LOCATIONS

CONTRACT NO.	SHEET NO.
~~62586, 62589, 62693~~ 62694	X

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE		NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
110	24"	BT	1841825.430	1177895.600	-4.15'	4.72'	0.57'	SUE QUALITY LEVEL "A"
111	24"	BT	1841825.960	1177908.730	1.05'	4.44'	5.49'	SUE QUALITY LEVEL "A"
112	SEE NOTE	BT	1844068.060	1177841.750	——	6.79'	2.89'	CLEARANCE DEPTH ONLY
113	SEE NOTE	BT	1844066.820	1177850.390	——	8.03'	5.95'	CLEARANCE DEPTH ONLY
114	24"	BT	1847363.280	1177733.270	-13.55'	5.33'	-8.22'	SUE QUALITY LEVEL "A"
115	24"	BT	1847363.890	1177740.570	-12.87'	7.00'	-5.87'	SUE QUALITY LEVEL "A"
116	24"	BT	1847364.010	1177750.010	-13.15'	10.51'	-2.64'	SUE QUALITY LEVEL "A"
117	24"	BT	1847354.070	1177540.800	-12.62'	4.98'	-7.64'	SUE QUALITY LEVEL "A"
118	24"	BT	1847354.020	1177532.210	-11.52'	4.52'	-7.00'	SUE QUALITY LEVEL "A"
119	24"	BT	1841818.360	1177704.030	-6.42'	4.55'	-1.87'	SUE QUALITY LEVEL "A"
120	24"	BT	1841818.190	1177694.600	-5.43'	5.12'	-0.31'	SUE QUALITY LEVEL "A"
121	24"	E	1844061.030	1177617.950	-1.50'	6.67'	5.17'	SUE QUALITY LEVEL "A"
122	(3) 1"	E	1840742.250	1177446.860	10.93'	4.47'	15.40'	SUE QUALITY LEVEL "A"
123	(2)2.5"	E	1840753.910	1177452.070	12.73'	2.88'	15.61'	SUE QUALITY LEVEL "A"
124	2"	BT	1840831.420	1177479.340	13.17'	2.57'	15.74'	SUE QUALITY LEVEL "A"
125	2"	E	1840820.710	1177506.720	5.90'	3.01'	8.91'	SUE QUALITY LEVEL "A"
126	2"	E	1840804.920	1177597.800	0.06'	3.54'	3.60'	SUE QUALITY LEVEL "A"
127	(3) 1"	E	1840788.150	1177588.790	0.28'	3.56'	3.84'	SUE QUALITY LEVEL "A"
128	2"	E	1840818.210	1177530.500	0.02'	1.85'	1.87'	SUE QUALITY LEVEL "A"
129	2"	E	1840816.460	1177545.960	0.42'	1.74'	2.16'	SUE QUALITY LEVEL "A"
130	SEE NOTE	BT	1839700.920	1178266.540	——	10.98'	-7.69'	CLEARANCE DEPTH ONLY
131	SEE NOTE	BT	1839752.990	1178287.460	——	11.56'	-8.92'	CLEARANCE DEPTH ONLY

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS

TBE Project Information

TH#112 Utility not exposed, clearance depth of 6.79'.
TH#113 Utility not exposed, clearance depth of 8.03'.
TH#130 Utility not exposed, clearance depth of 10.98'.
TH#131 Utility not exposed, clearance depth of 11.56'.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)
Chicago-Cook County
Sec No: (2122-921 PT1) R, (2021-922 PTI,2)
Contract No. 62586, 62589, 62693
TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/4/05	RCC	QA/QC															

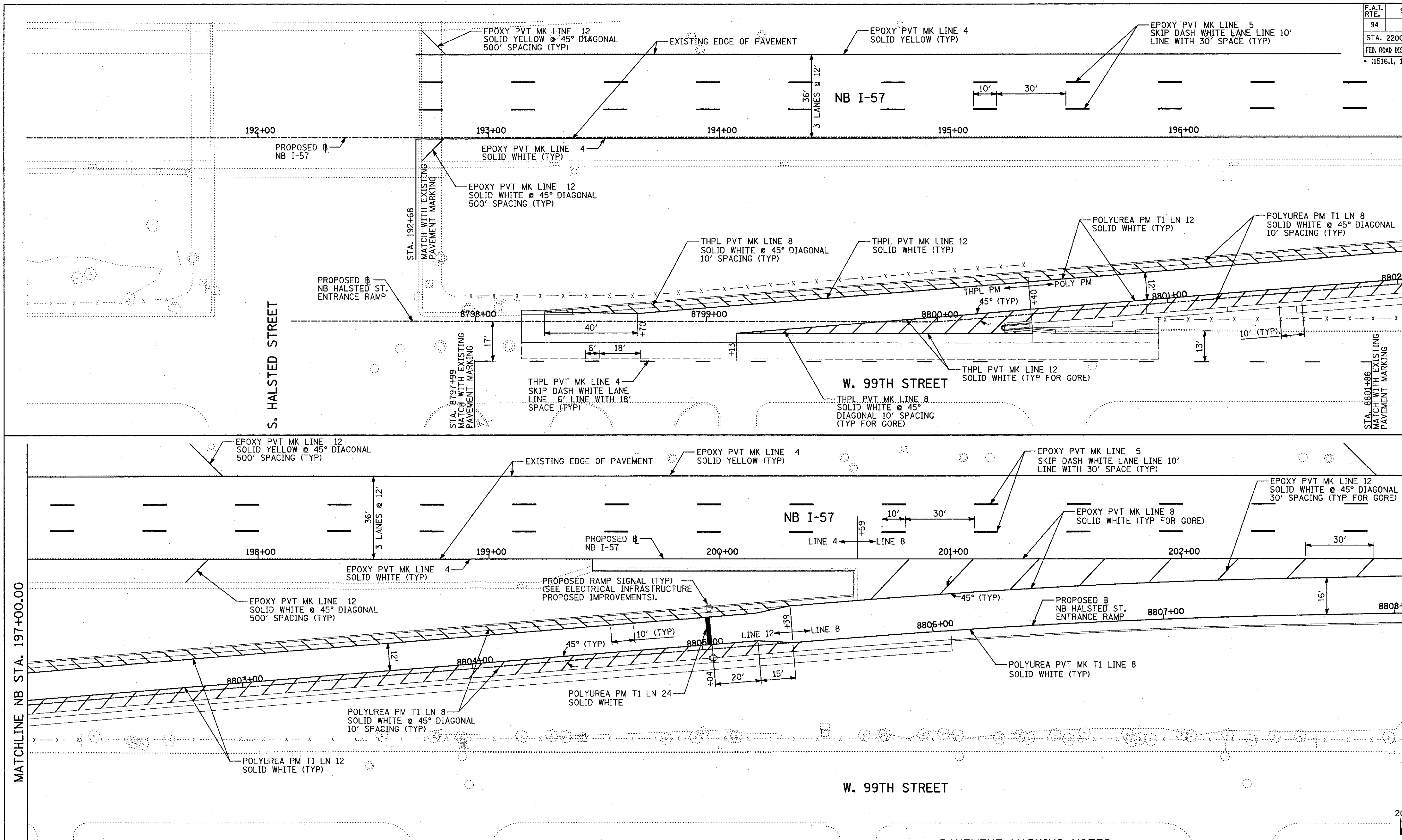
TBE GROUP, INC.
SOUTHERN REGION: FL, GA, SC, NC
NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY PA, VA, CANADA
WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA

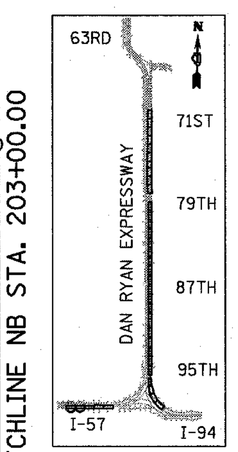
VERIFIED UTILITY LOCATIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	285
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB HALSTED STREET ENTRANCE RAMP
NB I-57 STA. 191+00.00 TO 203+00.00

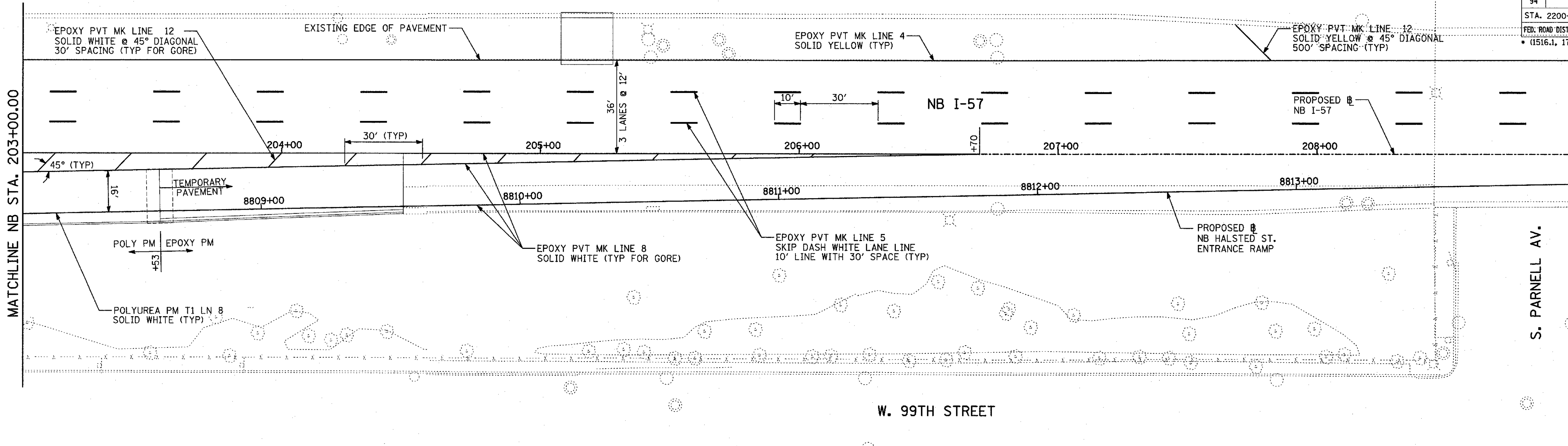
SCALE: 1"=20' DRAWN BY: TB

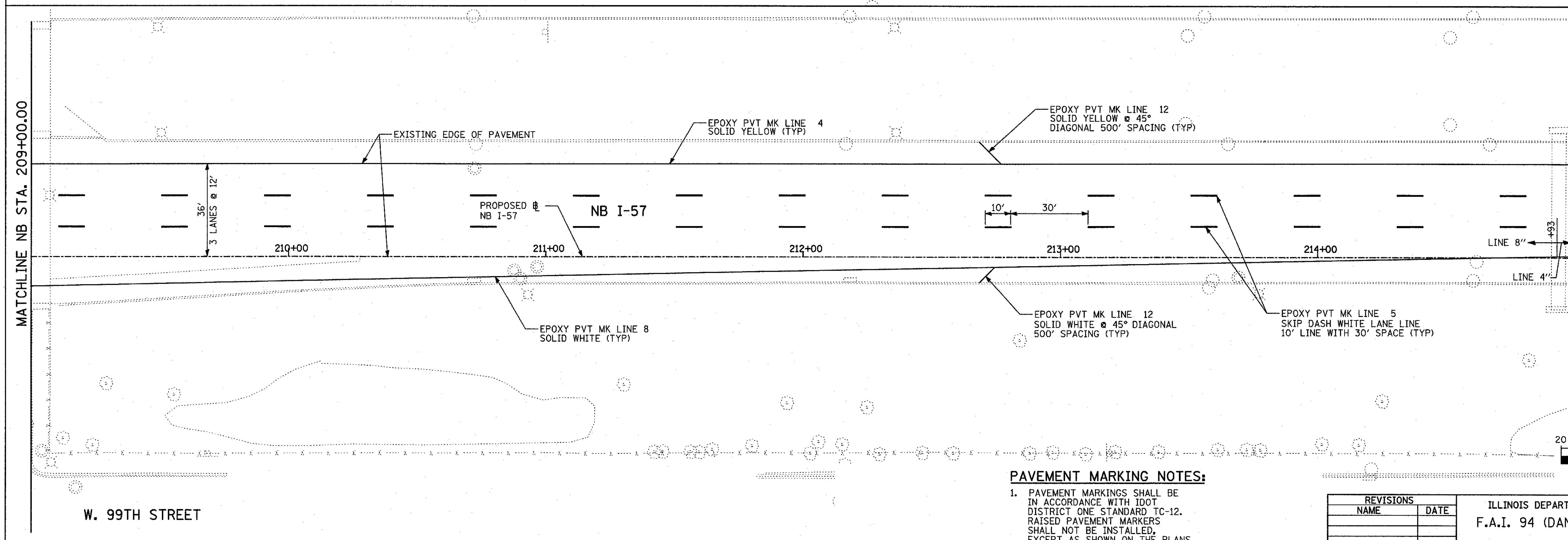
DATE: MARCH 18, 2005 CHECKED BY: MPG

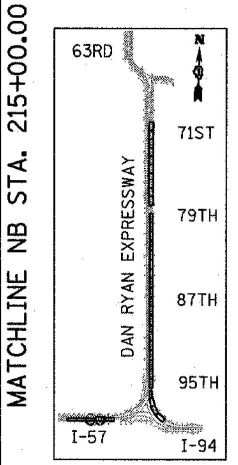
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	286
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694







LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
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REVISIONS	
NAME	DATE

TY·LIN INTERNATIONAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB HALSTED STREET ENTRANCE RAMP
NB I-57 STA. 203+00.00 TO 215+00.00

SCALE: 1"=20' DRAWN BY: TB

DATE: MARCH 18, 2005 CHECKED BY: MPG

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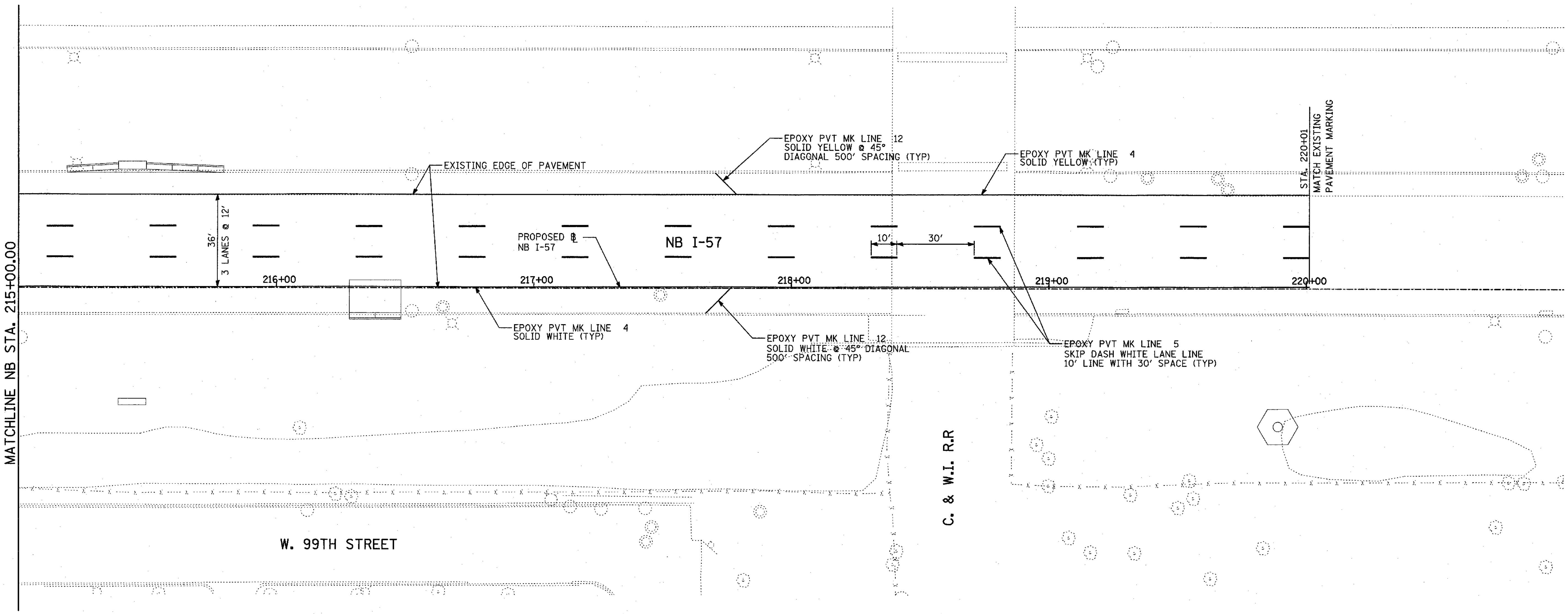
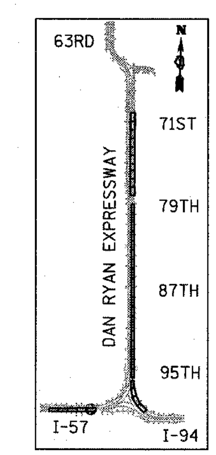
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	287
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

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T·Y·LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

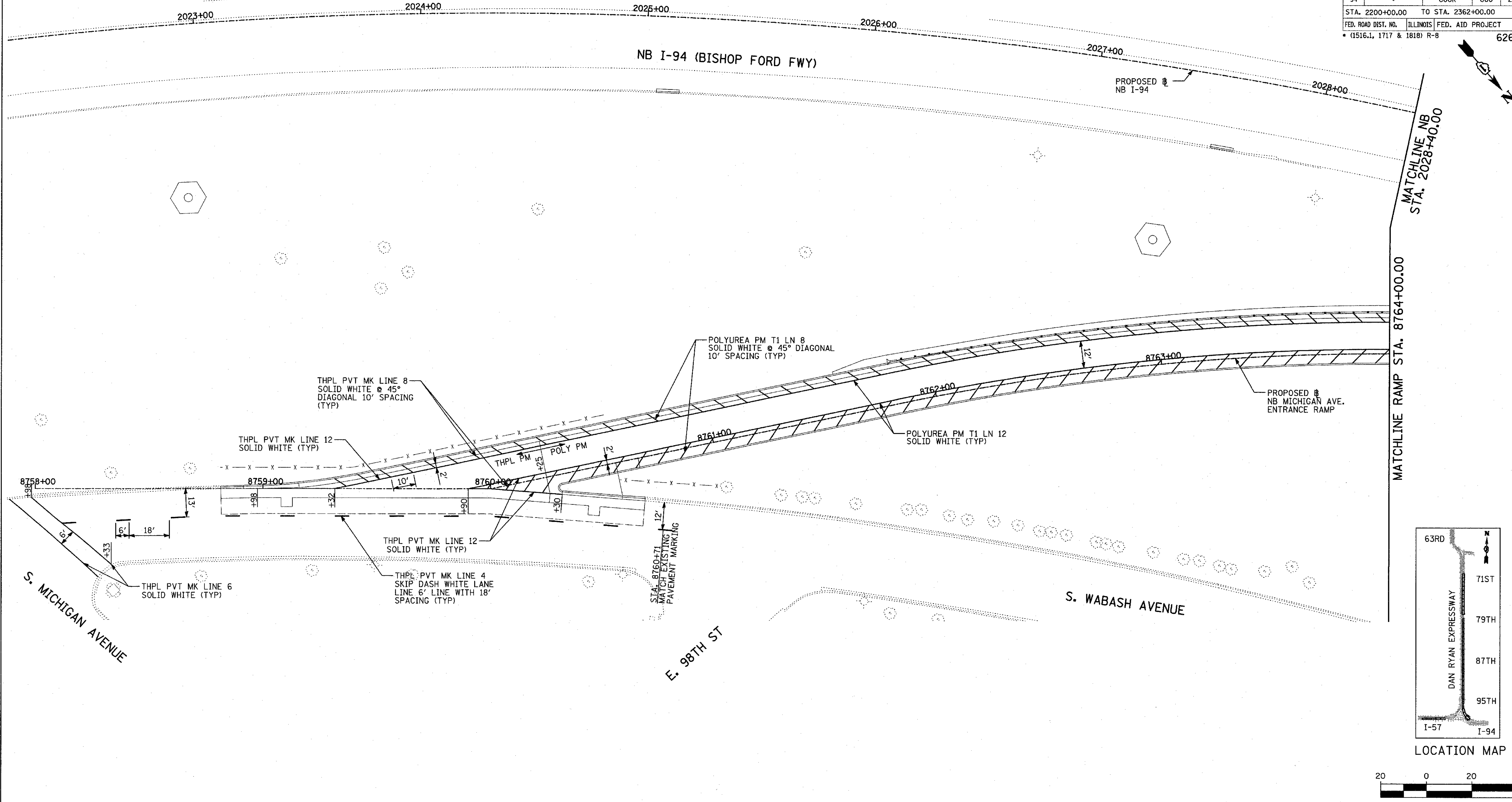
PAVEMENT MARKING
NB HALSTED STREET ENTRANCE RAMP
NB I-57 STA. 215+00.00 TO 221+00.00

SCALE: 1"=20' DRAWN BY: TB

DATE: MARCH 18, 2005 CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	288
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8 62694



PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

T·Y·LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB MICHIGAN AVENUE ENTRANCE RAMP
MICHIGAN AVE. TO NB I-94 STA. 2028+40

SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG

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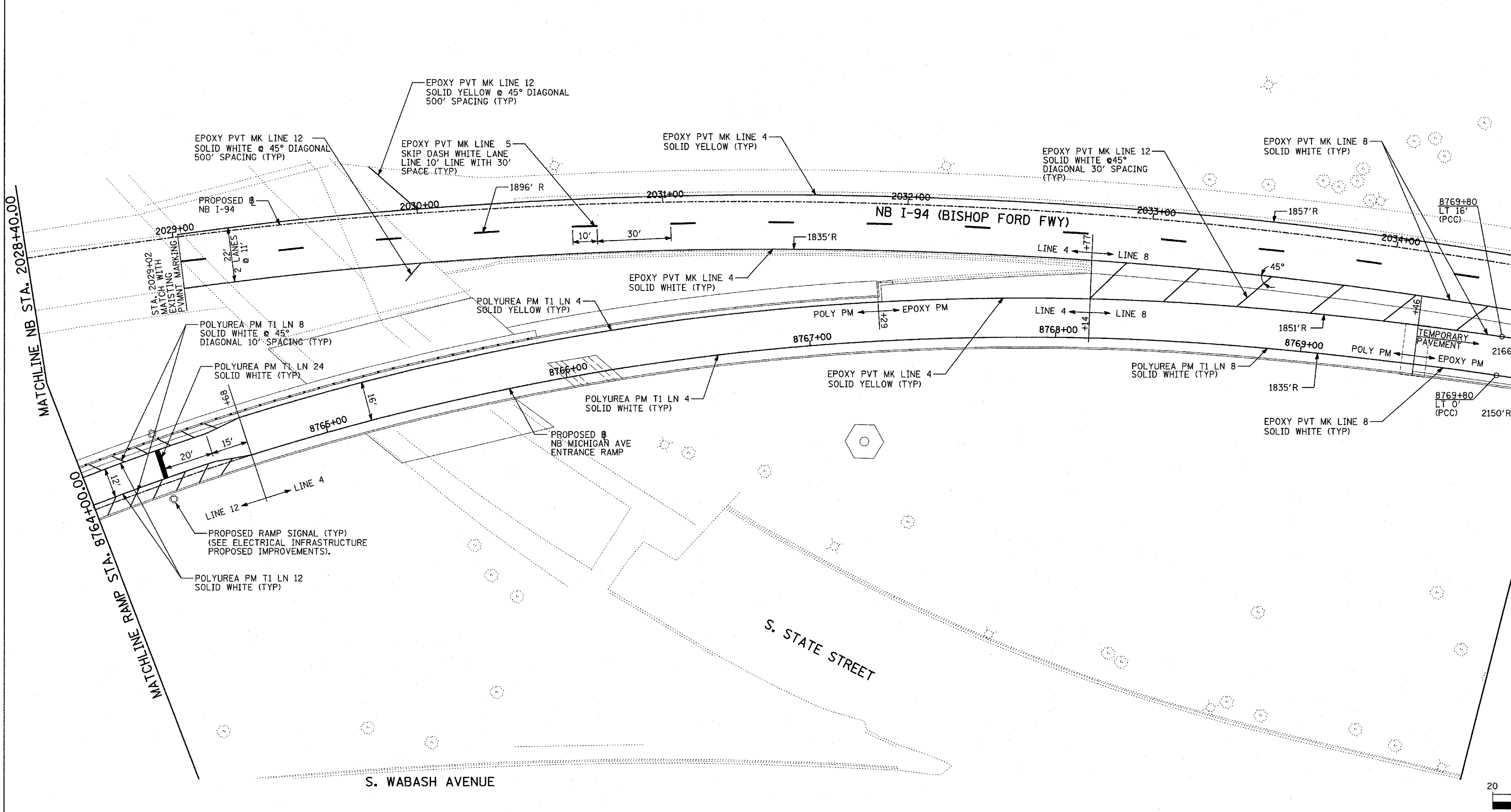
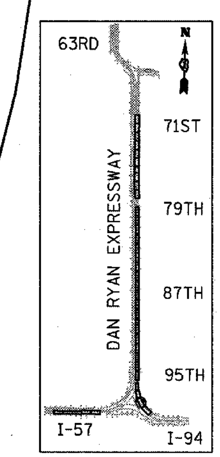
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	289
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB MICHIGAN AVENUE ENTRANCE RAMP
NB I-94 STA. 2028+40.00 TO STA. 2034+68.00

SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG

TYLIN INTERNATIONAL

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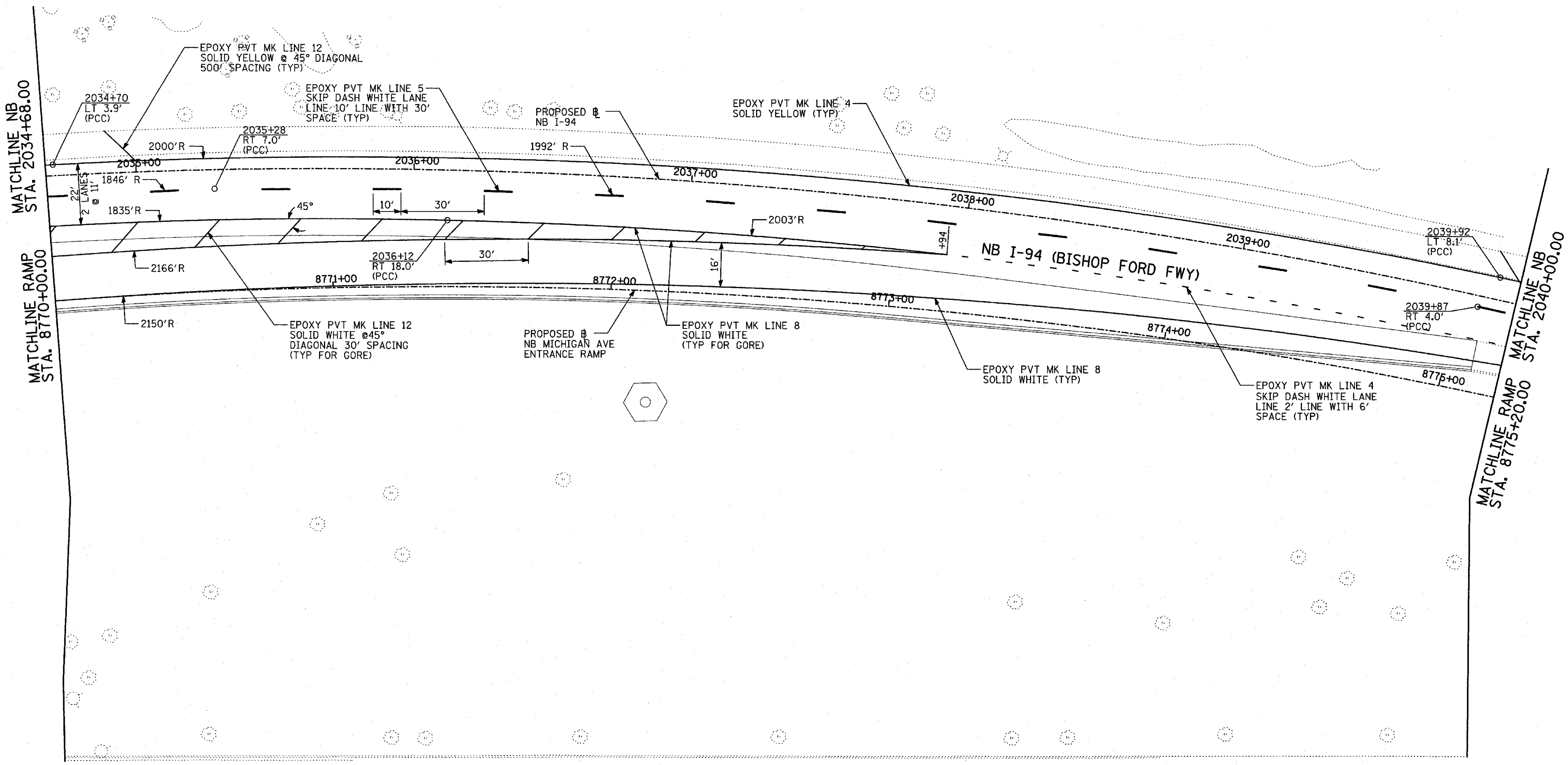
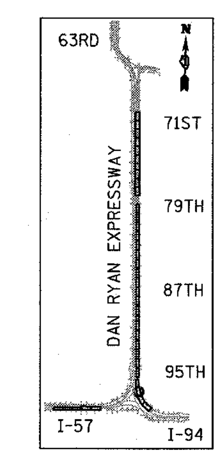
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	290
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
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T.Y.LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB MICHIGAN AVENUE ENTRANCE RAMP
NB I-94 STA. 2034+68.00 TO STA. 2040+00.00

SCALE: 1"=20' DRAWN BY: TB

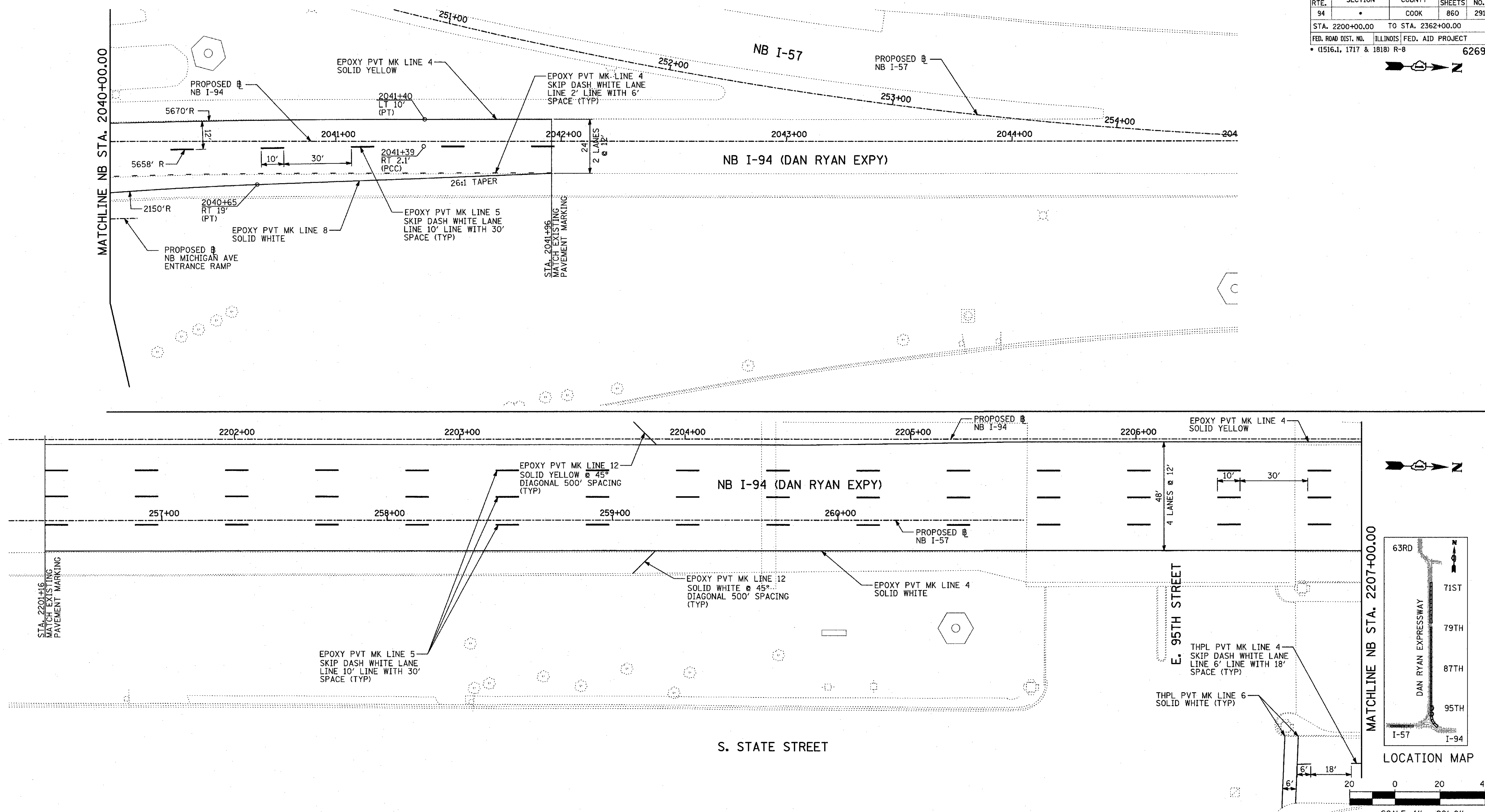
DATE: MARCH 18, 2005 CHECKED BY: MPG

03/25/2005 01:35:43 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	291
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING

NB I-94 (BISHOP FORD & DAN RYAN)

NB FORD STA. 2040+00.00 TO 2045+00.00

NB RYAN STA. 2201+00.00 TO 2207+00.00

SCALE: 1"=20' DRAWN BY: TB

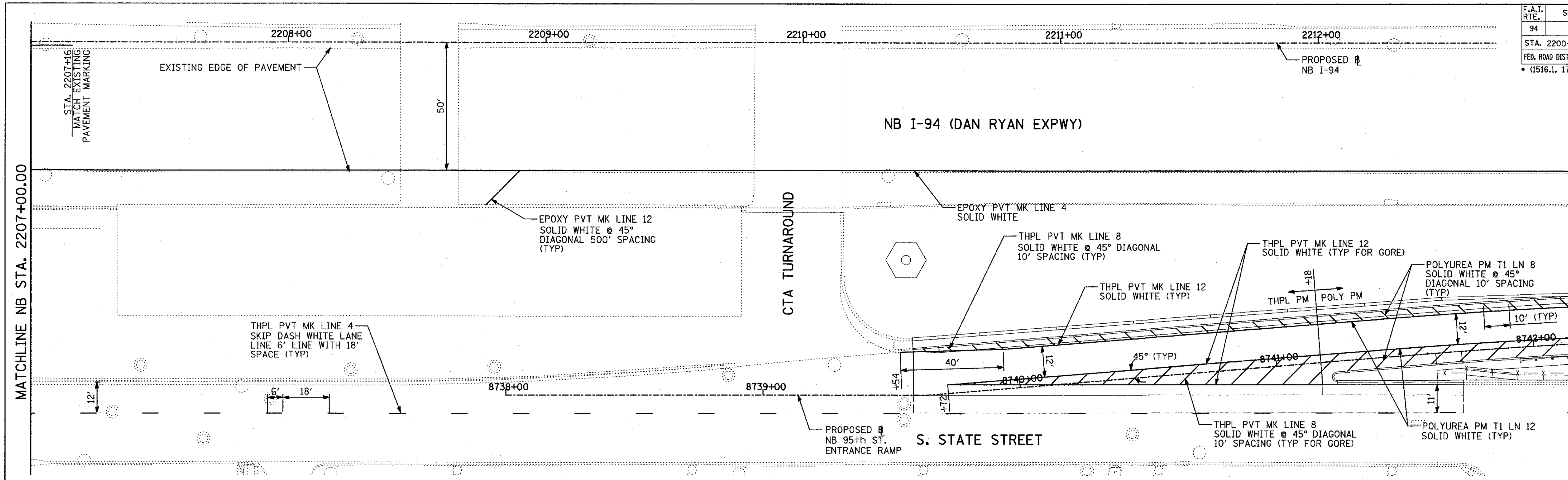
DATE: MARCH 18, 2005 CHECKED BY: MPG

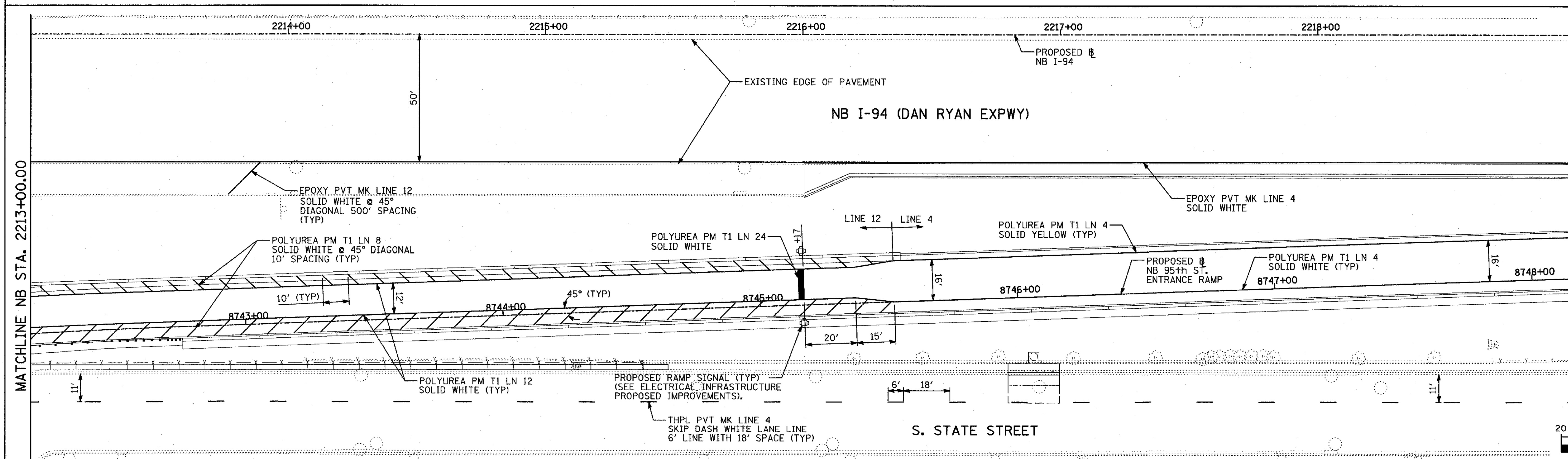
TYLIN INTERNATIONAL

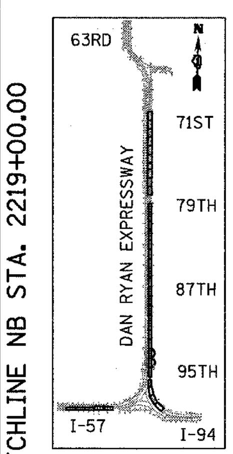
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	292
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694







LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

T·Y·LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 95th STREET ENTRANCE RAMP
NB I-94 STA. 2207+00.00 TO 2219+00.00

SCALE: 1"=20' DRAWN BY: TB

DATE: MARCH 18, 2005 CHECKED BY: MPG

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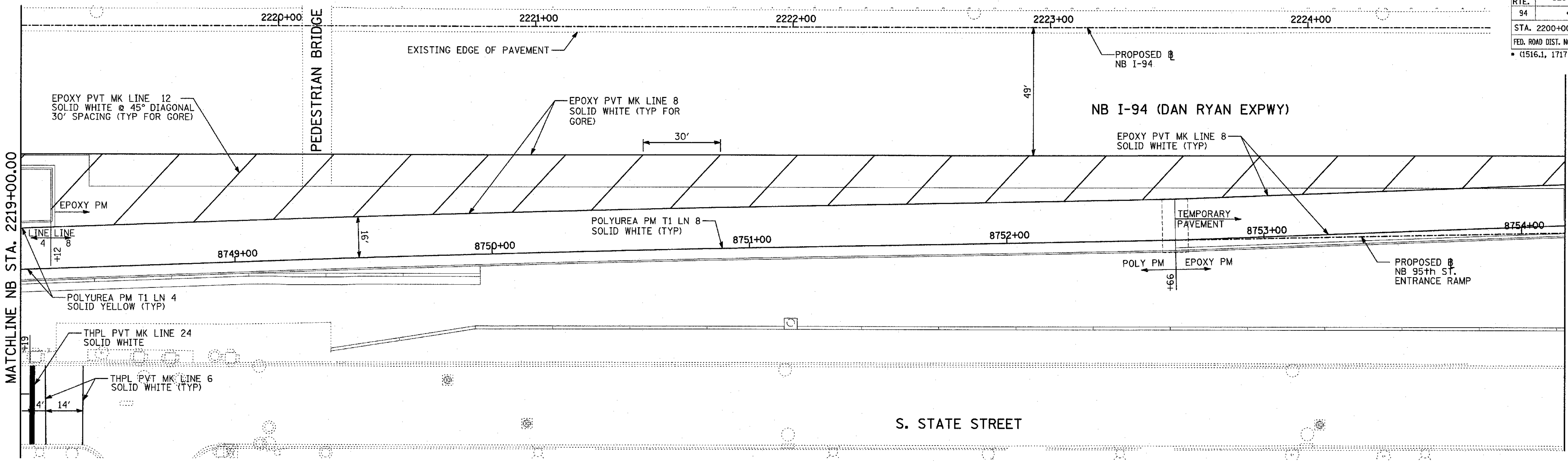
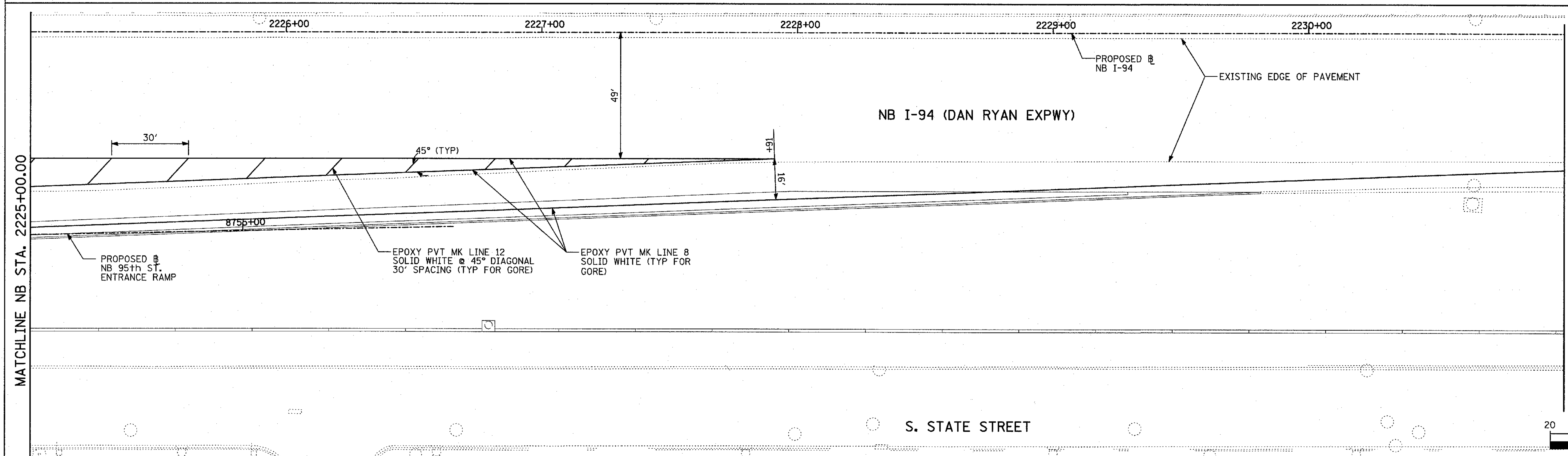
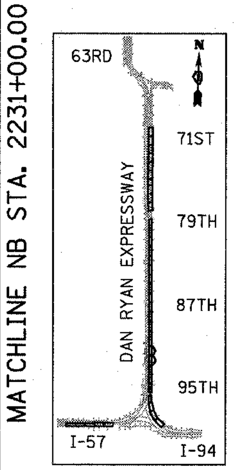
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	293
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8 62694







LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

T.Y.LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 95th STREET ENTRANCE RAMP
NB I-94 STA. 2219+00.00 TO 2231+00.00

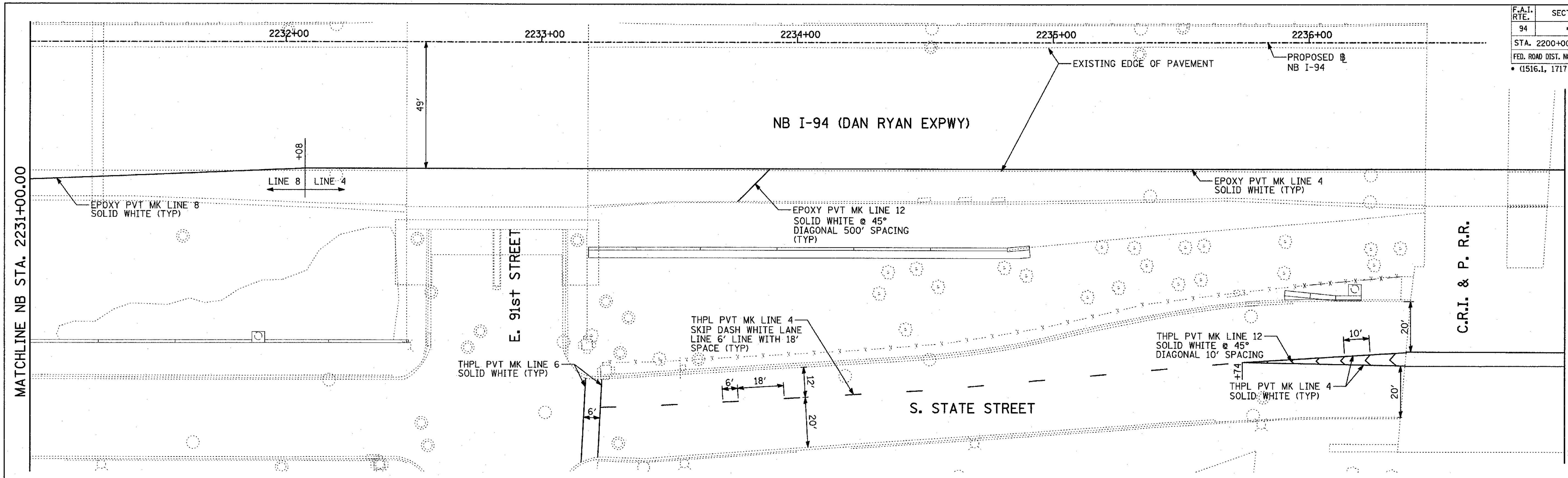
SCALE: 1"=20' DRAWN BY: TB

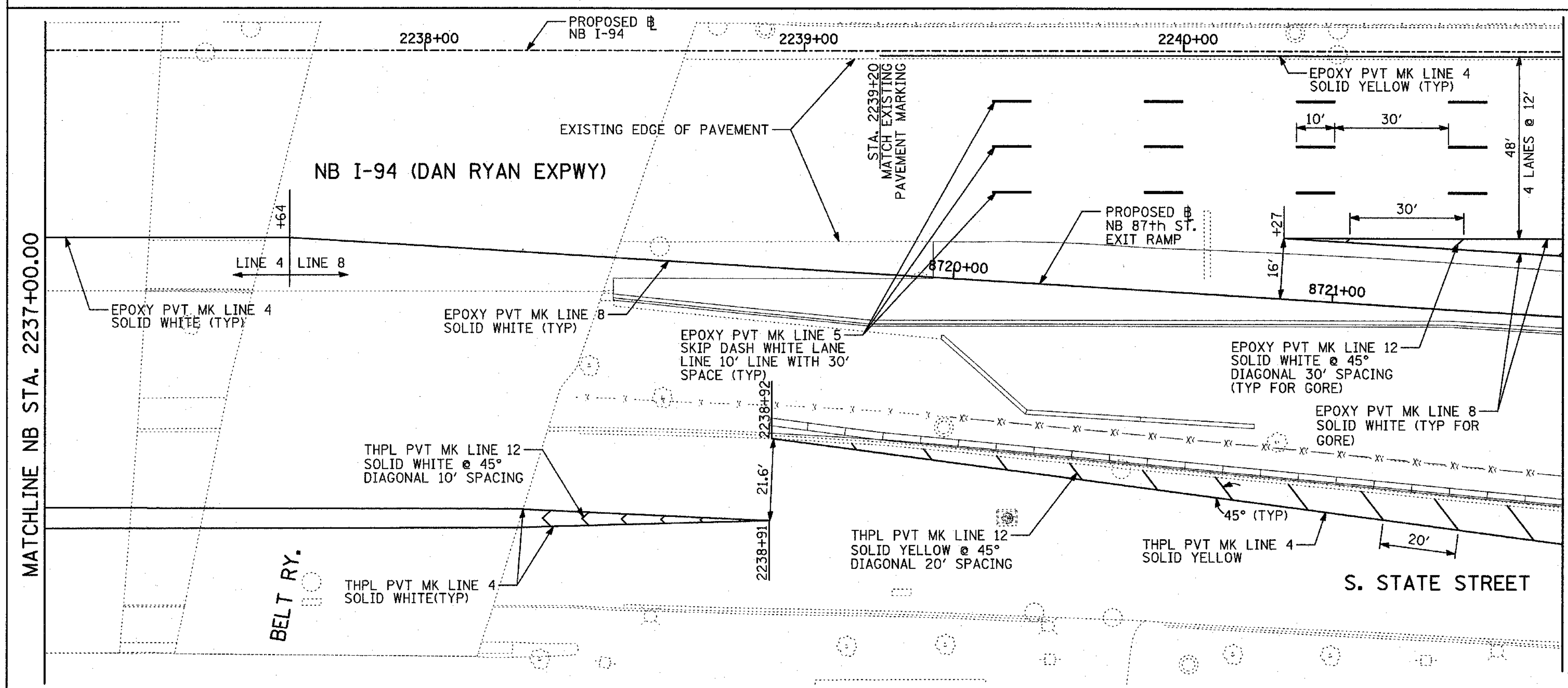
DATE: MARCH 18, 2005 CHECKED BY: MPG

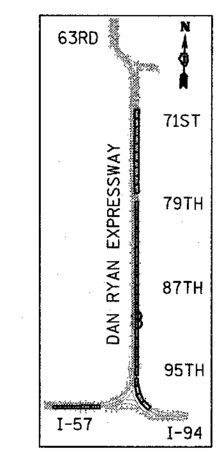
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	294
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694







LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

T.Y.LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB I-94 (DAN RYAN EXPWY)
NB I-94 STA. 2231+00.00 TO 2241+00.00

SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG

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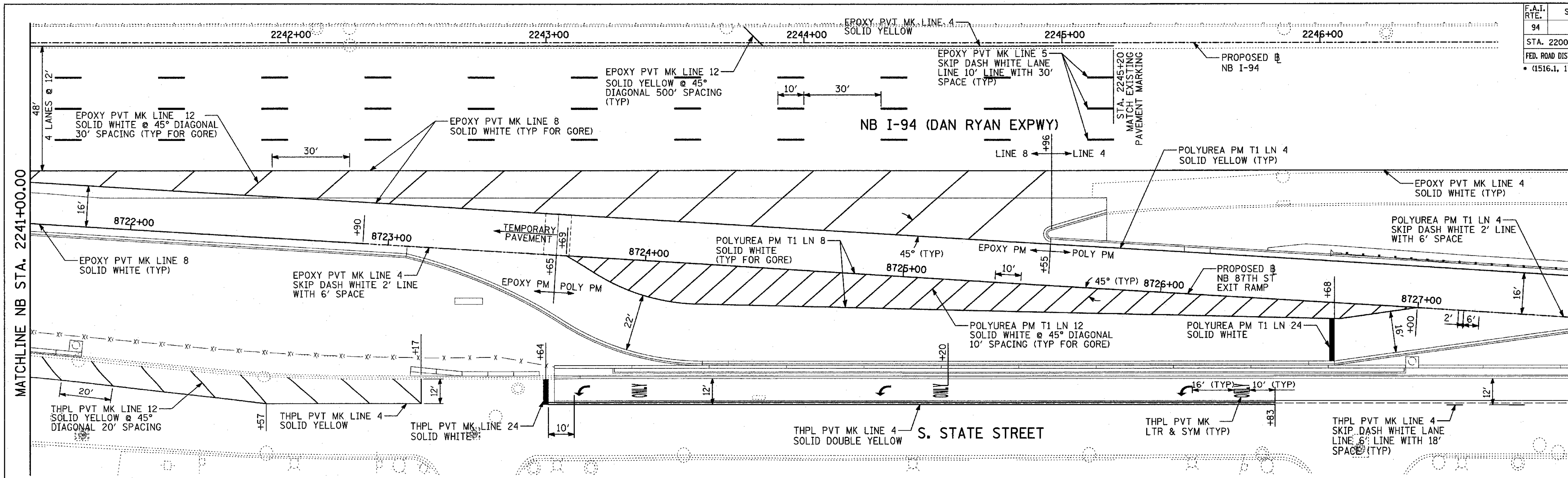
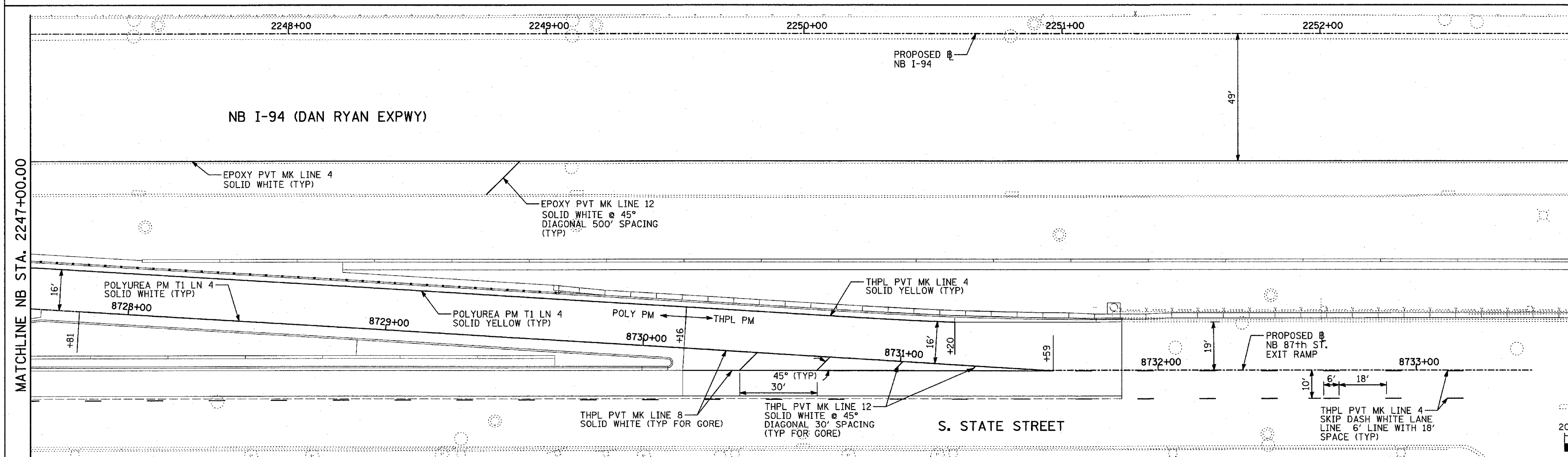
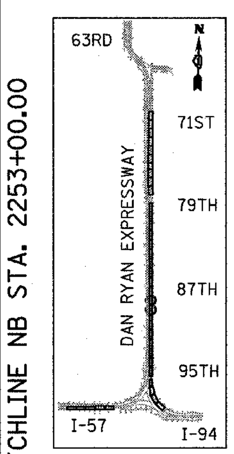
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	295
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694







LOCATION MAP

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
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TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

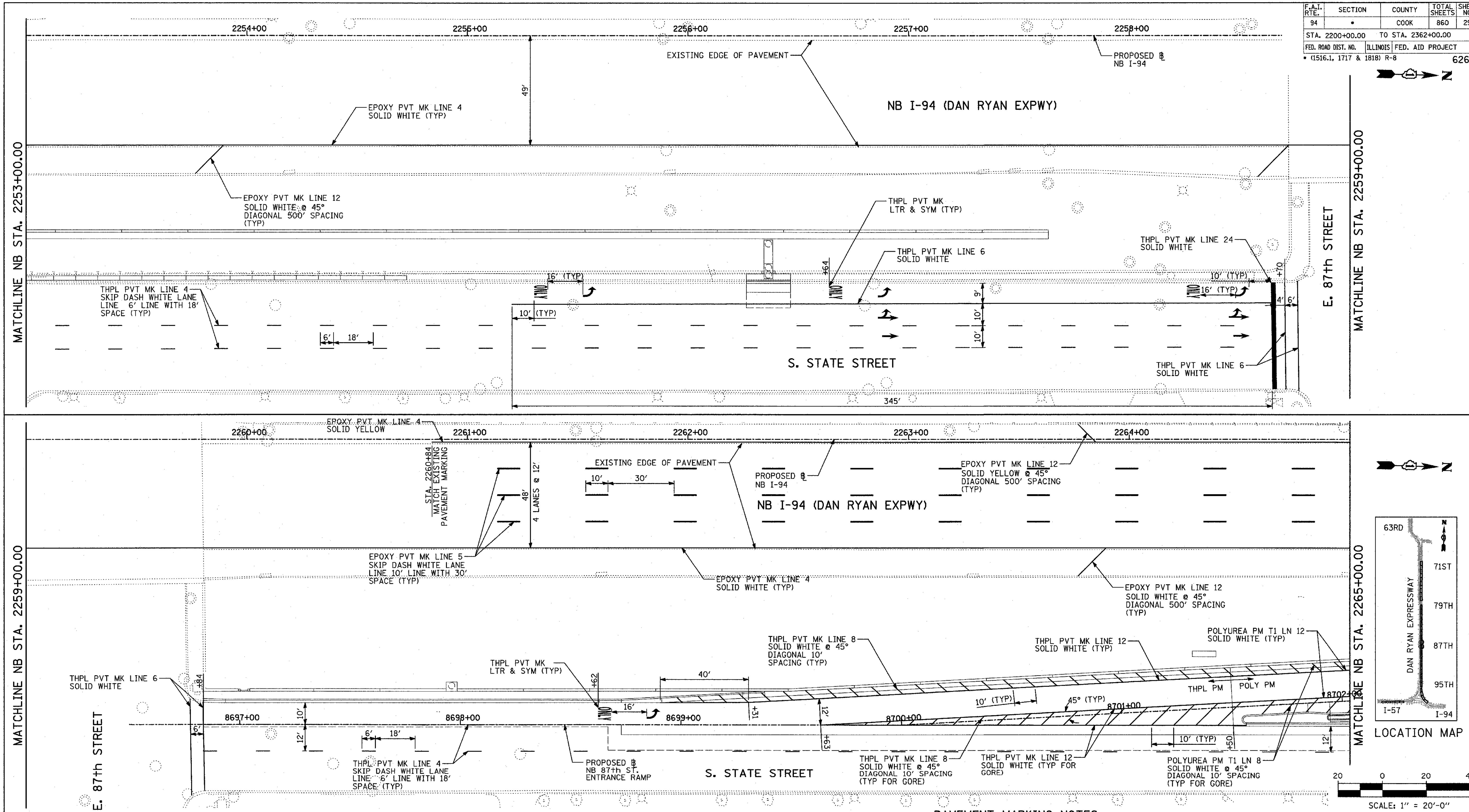
PAVEMENT MARKING
NB 87th STREET EXIT RAMP
NB I-94 STA. 2241+00.00 TO 2253+00.00

SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	296
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694



PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2253+00.00 TO 2265+00.00

SCALE: 1"=20' DRAWN BY: TB

DATE: MARCH 18, 2005 CHECKED BY: MPG

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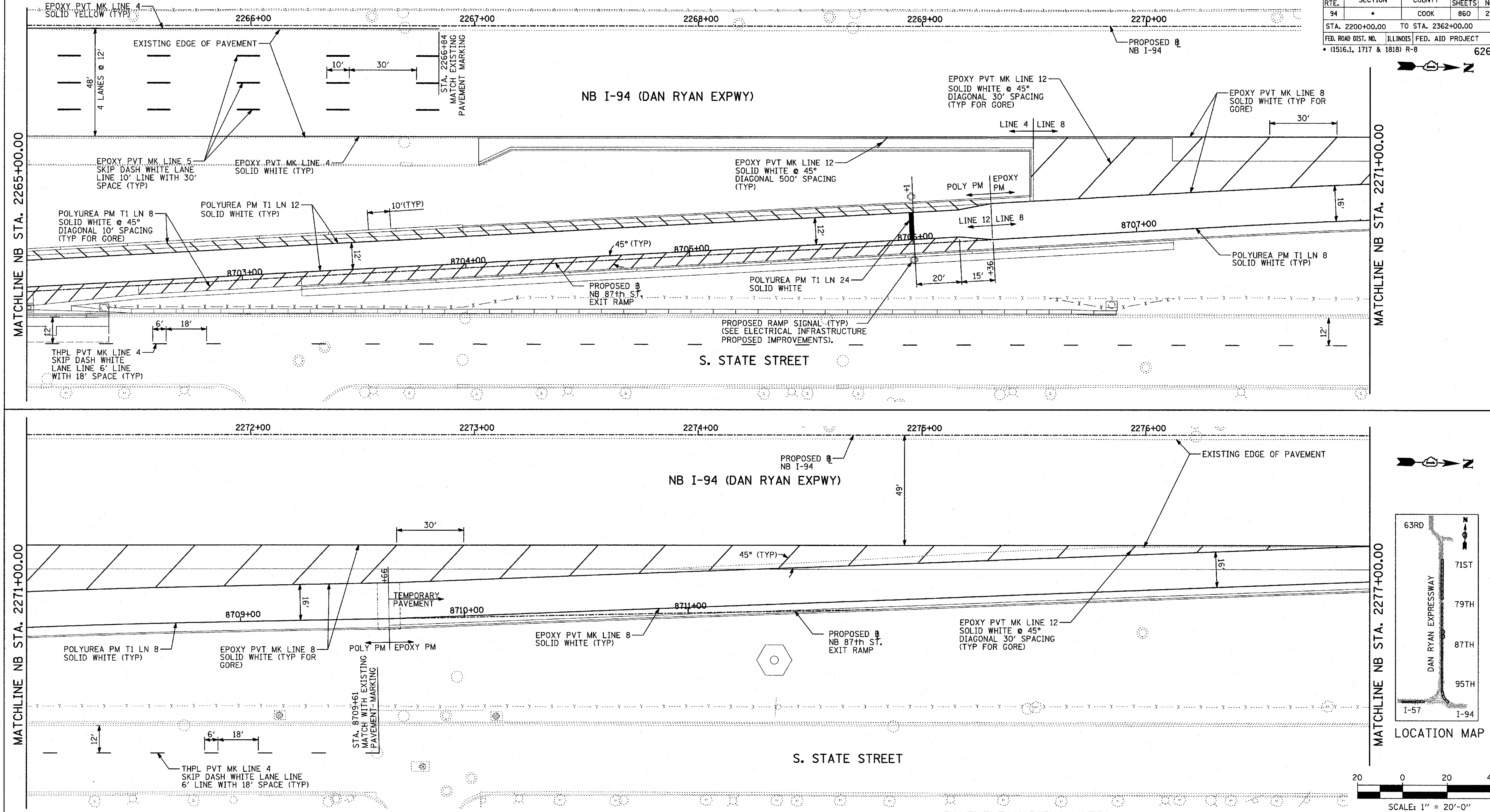
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	297

STA. 2200+00.00 TO STA. 2362+00.00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-8 62694



PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
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TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2265+00.00 TO 2277+00.00

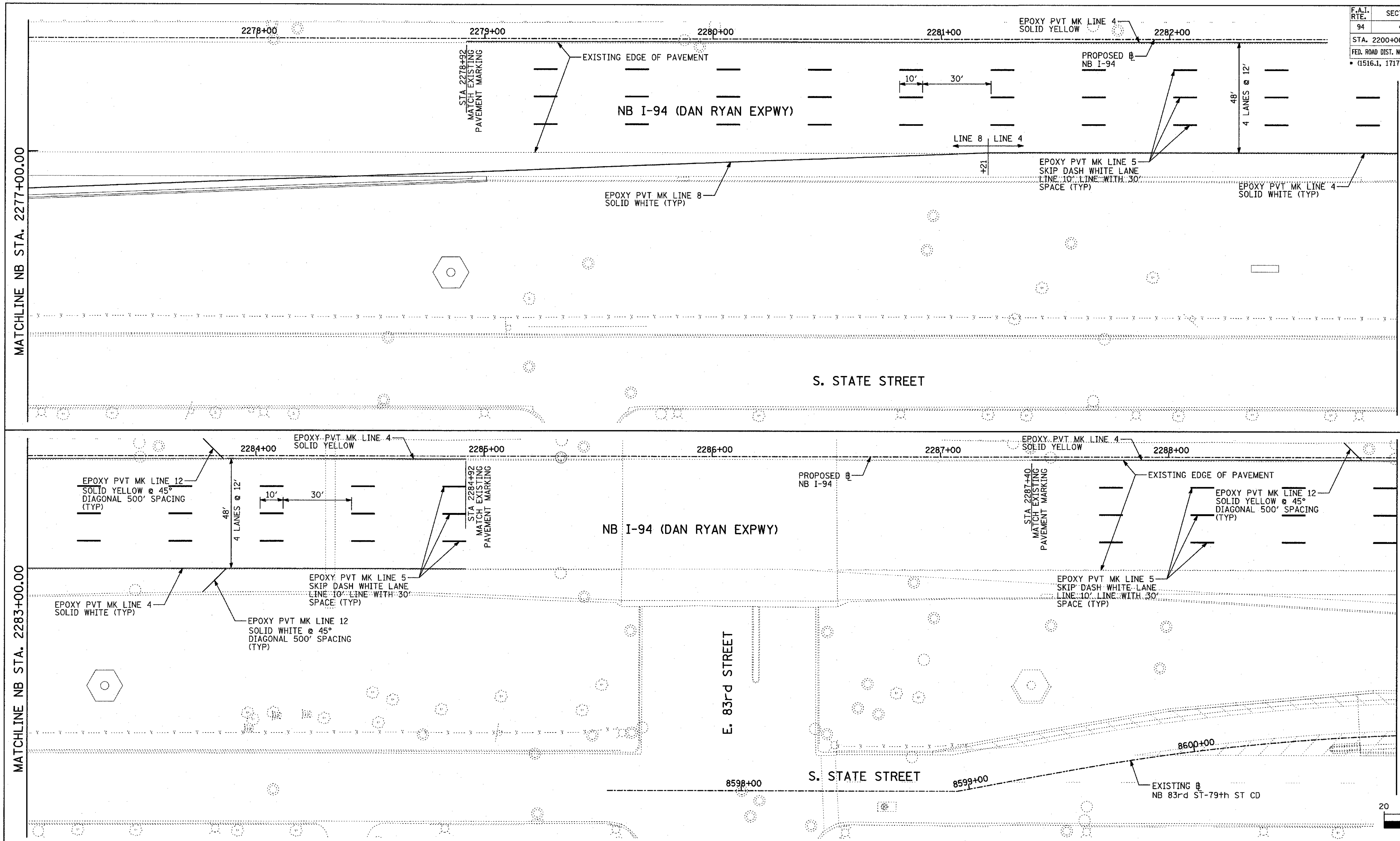
SCALE: 1"=20' DRAWN BY: TB

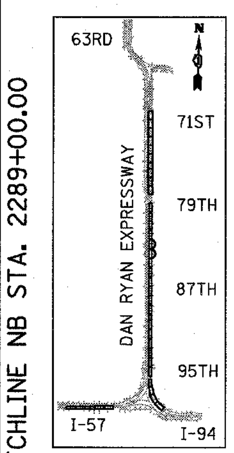
DATE: MARCH 18, 2005 CHECKED BY: MPG

03/25/2005 01:36:06 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	298
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8 62694





LOCATION MAP

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

T·Y·LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 87th STREET ENTRANCE RAMP
NB I-94 STA. 2277+00.00 TO 2289+00.00

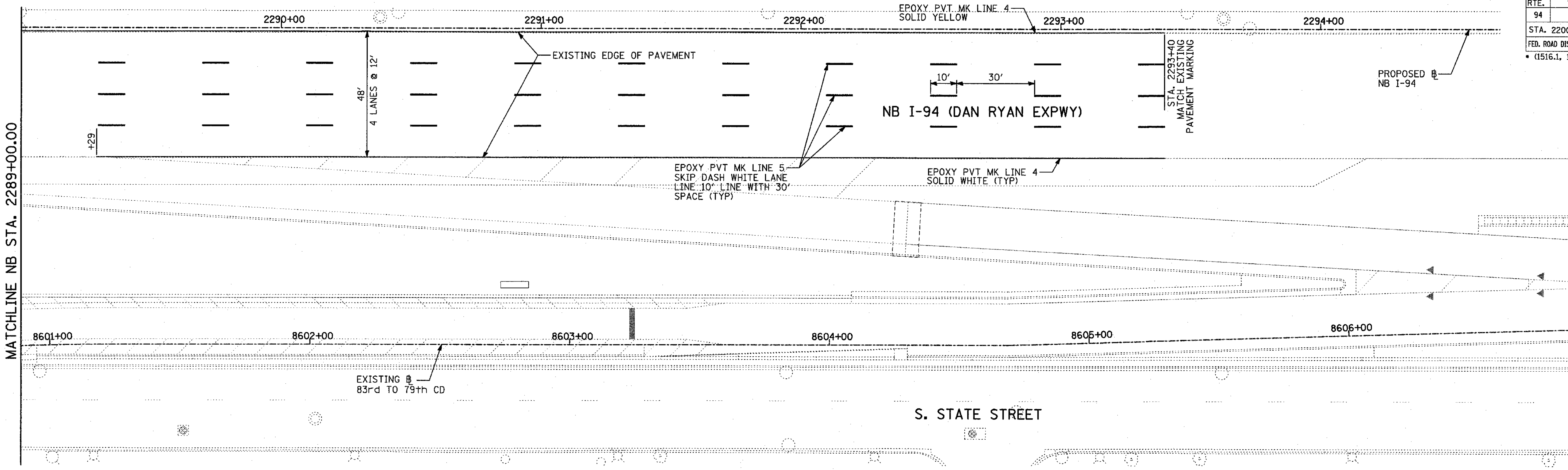
SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPC

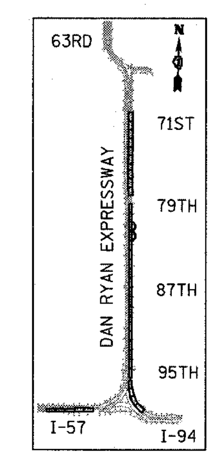
03/25/2005 01:36:14 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	299
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 83rd to 79th STREET C-D RAMP
NB I-94 STA. 2289+00.00 TO 2295+00

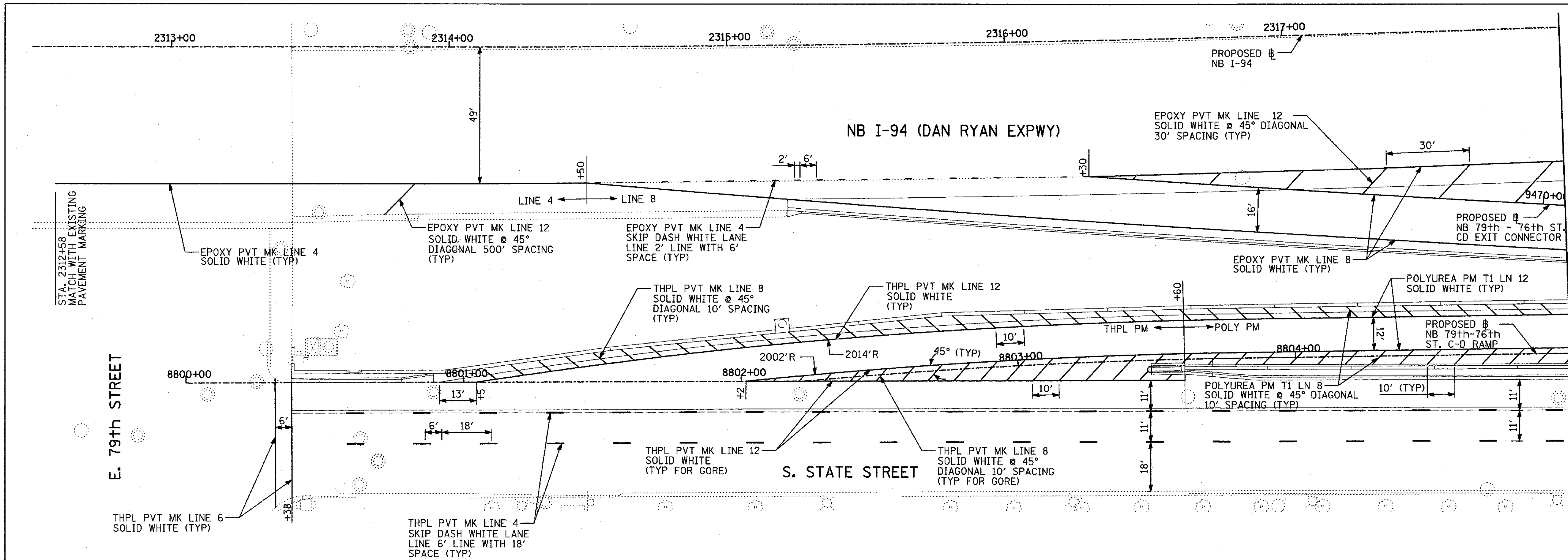
SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG

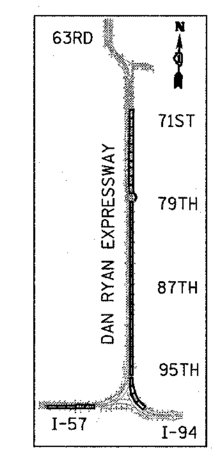
TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	300
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-8

62694





LOCATION MAP

20 0 20 40

SCALE: 1" = 20'-0"

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-12. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED, EXCEPT AS SHOWN ON THE PLANS.
2. THE RESIDENT ENGINEER SHALL CONTACT JULIA FOX (847) 705-4151, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, PRIOR TO PLACING ANY PAVEMENT MARKINGS.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

PAVEMENT MARKING
NB 79th to 76th STREET C-D RAMP
NB I-94 STA. 2312+50.00 TO 2318+00.00

SCALE: 1"=20' DRAWN BY: TB
DATE: MARCH 18, 2005 CHECKED BY: MPG