

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	1
290		ILLINOIS	CONTRACT NO. 60W36	

PROJECT LOCATED IN CITY OF CHICAGO

STATE OF ILLINOIS 06-14-13 LETTING ITEM 036  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**DESIGN DESIGNATION**

DESIGN DESIGNATION:

	ADT(2012)	ADT(2040)	DESIGN SPEED	POSTED SPEED
VAN BUREN ST.	4,600	5,000	30	30
HALSTED ST.	21,000	23,000	30	30
HARRISON ST.	16,800	17,000	30	30

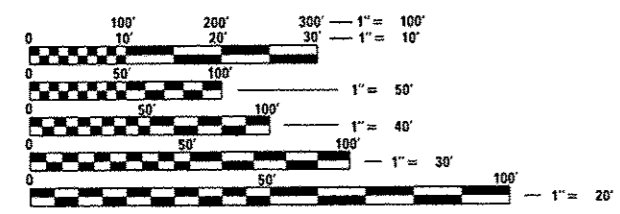
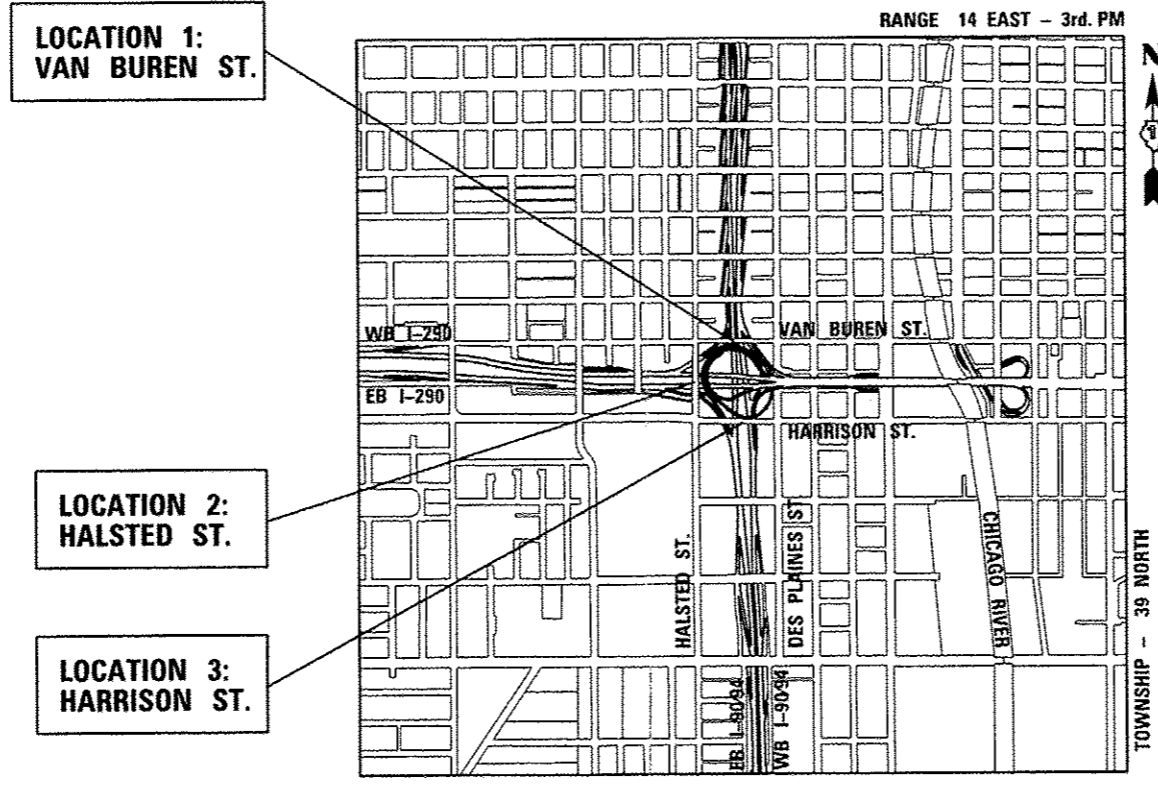
**PROPOSED  
 HIGHWAY PLANS**

F.A.I. 90 /94  
 AT I-290 (CIRCLE INTERCHANGE)  
 VARIOUS LOCATIONS  
 SECTION: 0101.6-2P-1-3 (13)

**TUNNEL BULKHEADING AND WATER MAIN  
 COOK COUNTY  
 C-91-271-13**

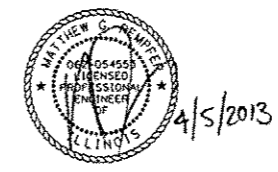


DISTRICT 1 DESIGN /CONSULTANT SERVICES: BRIAN KUTTAB, P.E. (847)705-4431 SCHAUMBURG, ILLINOIS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.  
 CHICAGO UTILITY ALERT NETWORK  
 (312) 744-7000



COLLINS ENGINEERS, INC.  
 MATTHEW G. REMPFER  
 NO. 062-054553  
 EXPIRES 11-30-2013

**COLLINS ENGINEERS**  
 123 N. WACKER DR., SUITE 900  
 CHICAGO, IL 60606  
 (312) 704-9300  
 ILLINOIS PROFESSIONAL DESIGN FIRM No. 184-000993

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED APRIL 8, 2013

*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 10 2013  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

May 10 2013  
*[Signature]*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: ADDIS ABEBAW  
 PROJECT MANAGER: BRIAN KUTTAB

CHICAGO  
 LOCATION MAP (SCALE: 1" = 1/2 MI)  
 PROJECT GROSS LENGTH = 1740 FT. = 0.33 MILE  
 PROJECT NET LENGTH = 1740 FT. = 0.33 MILE

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

CONTRACT NO. 60W36

INDEX OF SHEETS

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701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-07	LANE CLOSURE FREEWAY/EXPRESSWAY
701411-08	MULTI-LANE, TRAFFIC CONTROL AND ENTRANCE OR EXIT RAMP
701446-04	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701606-08	URBAN LANE CLOSURE, MULTI LANE, 2W + MOUNTABLE MEDIAN
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

THE CONTRACTOR SHALL BE PROVIDED A FIELD OFFICE TO BE SHARED WITH ADJACENT CONSTRUCTION PROJECTS IN THE AREA.

10 FT (3 M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER AT (847) 705-4412 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACING THE PERMANENT PAVEMENT MARKINGS.

ALL PAVEMENT PATCHING AND SIDEWALK REPLACEMENT AREAS AFFECTED BY THE IMPROVEMENT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

SAFE WORKING PRACTICES SHALL BE CONTINUOUSLY DEMONSTRATED BY THE CONTRACTOR. THE TUNNEL ENVIRONMENT IS TO BE CONSIDERED HOSTILE AND DUE CAUTION SHALL BE EXERCISED IN ALL MANNERS OF WORK PERFORMANCE AND INSPECTION. THE CONTRACTOR IS REQUIRED TO PREPARE AND SUBMIT A SAFETY AND DISINFECTION PLAN PRIOR TO ANY ENTRANCE INTO THE TUNNELS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF BULKHEAD TUNNEL, (SPECIAL).

THE DRAWINGS HAVE BEEN PREPARED FROM EXISTING WATER TUNNEL PLANS WHICH HAVE NOT BEEN VERIFIED AS TO THEIR ACCURACY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING DIMENSIONS AND DETAILS ON THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

WATER TUNNEL LOCATIONS AND SUBSURFACE FEATURES SHOWN ARE BASED UPON ORIGINAL WATER TUNNEL DRAWINGS. EXISTING FEATURES ARE NOTED WHERE INFORMATION IS AVAILABLE.

ALL WATER TUNNEL ELEVATIONS ARE WITH RESPECT TO THE CITY OF CHICAGO DATUM (CCD). ALL PAVEMENT ELEVATIONS ARE WITH RESPECT TO NAV88. THE ELEVATION CORRELATION IS ELEV. 579.88 NAV88 = ELEV. 0.0 CCD

THE CONTRACTOR SHALL PERFORM ALL WORK IN FULL COMPLIANCE WITH OSHA STANDARDS AND REQUIREMENTS. IDOT'S STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND CHICAGO DEPARTMENT OF WATER MANAGEMENT REQUIREMENTS, AS APPLICABLE.

GENERAL NOTES (CITY OF CHICAGO)

BEFORE STARTING ANY EXCAVATION WITHIN THE CITY OF CHICAGO, THE CONTRACTOR SHALL CONTACT "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

FILE NAME = I:\2798\2798.21 - Corolla Interchange Tunnel Bulkhead\CDWM SHEETS\0168\0168.vnt.gendoc



USER NAME : rgal1	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/12/2013	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES, &  
HIGHWAY STANDARDS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	2
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

URBAN  
100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN ROADWAY	UTILITY
				0004	0043
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	20	20	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	100	100	
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SQ YD	96	96	
44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	96	96	
67100100	MOBILIZATION	LSUM	1	1	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQFT	2175	2175	
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	500	500	
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50	50	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1	
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	6465	6465	
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	20	20	
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	154	154	
X0327598	LOCATE TUNNEL	LSUM	1	1	

14

• - DENOTES SPECIALTY ITEM

FILE NAME :	USER NAME : rgal	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : 100.0000' / 1"	DRAWN -	REVISED -						90/94	0101.6-2P-1-3	COOK	37	3
	PLOT DATE : 4/12/2013	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -									CONTRACT NO. 60W36	

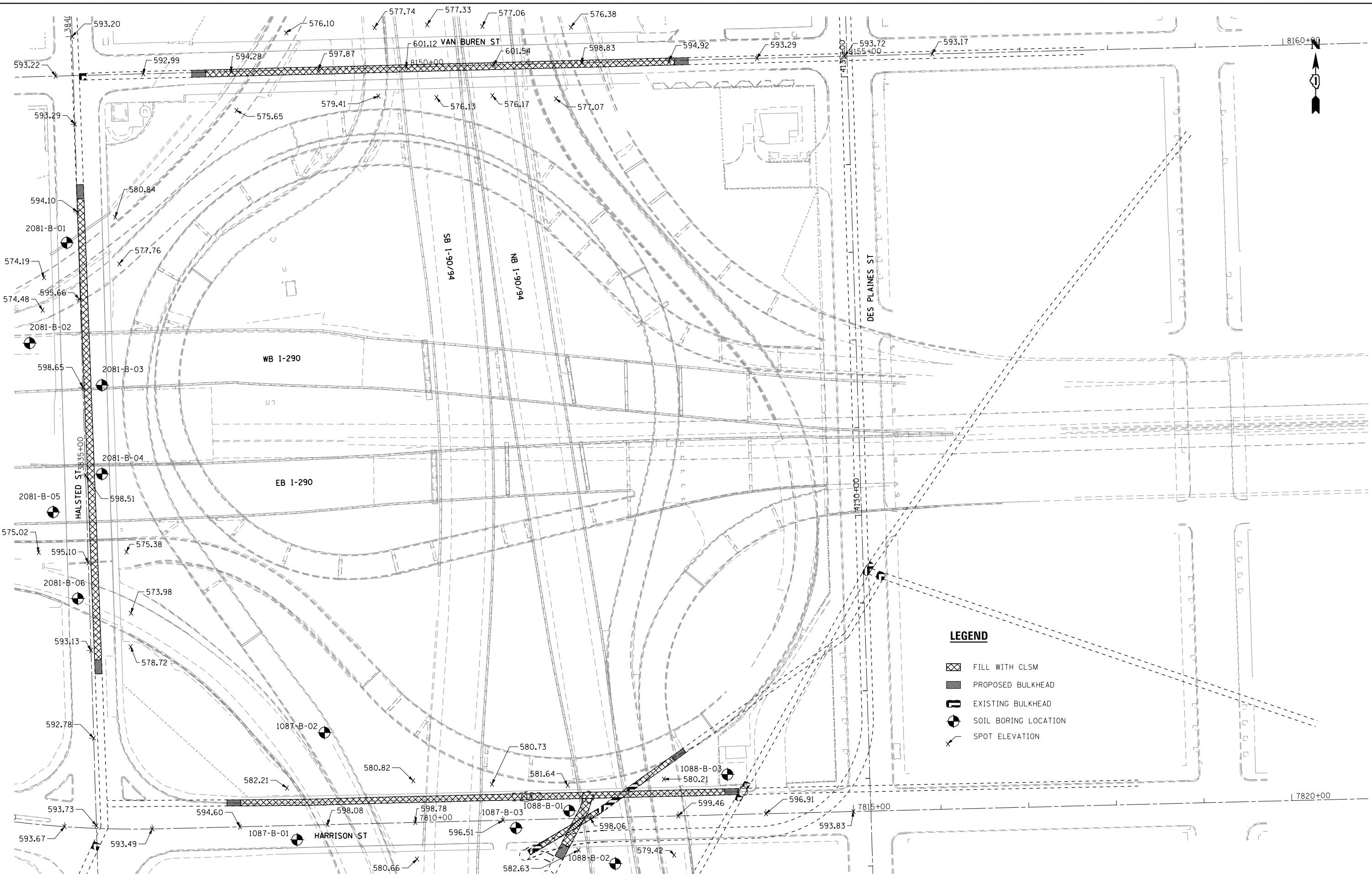
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN ROADWAY	UTILITY
				0004	0043
X0327599	BULKHEAD TUNNEL	LSUM	1	1	
X0327600	BULKHEAD TUNNEL (SPECIAL)	LSUM	1	1	
X5930100	CONTROLLED LOW-STRENGTH MATERIAL, SPECIAL	CU YD	3071.5	3071.5	
56101178	DUCTILE IRON WATER PIPE FITTINGS-36"X24" 2 BELL MECHANICAL JOINT REDUCER	EACH	1		1
56101176	DUCTILE IRON WATER PIPE FITTINGS-30"X24" 2 BELL MECHANICAL JOINT REDUCER	EACH	1		1
56104322	DUCTILE IRON WATER PIPE FITTINGS-24" 2 BELL MECHANICAL JOINT 1/4 BASE BEND	EACH	2		2
56104324	DUCTILE IRON WATER PIPE FITTINGS-36" MECHANICAL JOINT SLEEVE	EACH	1		1
56104323	DUCTILE IRON WATER PIPE FITTINGS-30" MECHANICAL JOINT SLEEVE	EACH	1		1
56105310	WATER MAIN CONTROL VALVE-16 INCH	EACH	1		1
<del>2007600</del>	<del>TRAINEES</del>	<del>HOUR</del>	<del>500</del>	<del>500</del>	
2007604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500	

9  
© 0042

Rev.



FILE NAME = I:\7290\7290-21 - Circle Interchange Tunnel Bulkheading\CADD\CADD SHEETS\7290-21-38-1-Overall Site Plans.dgn



**COLLINS ENGINEERS**

USER NAME = r9e11	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 4/12/2013	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

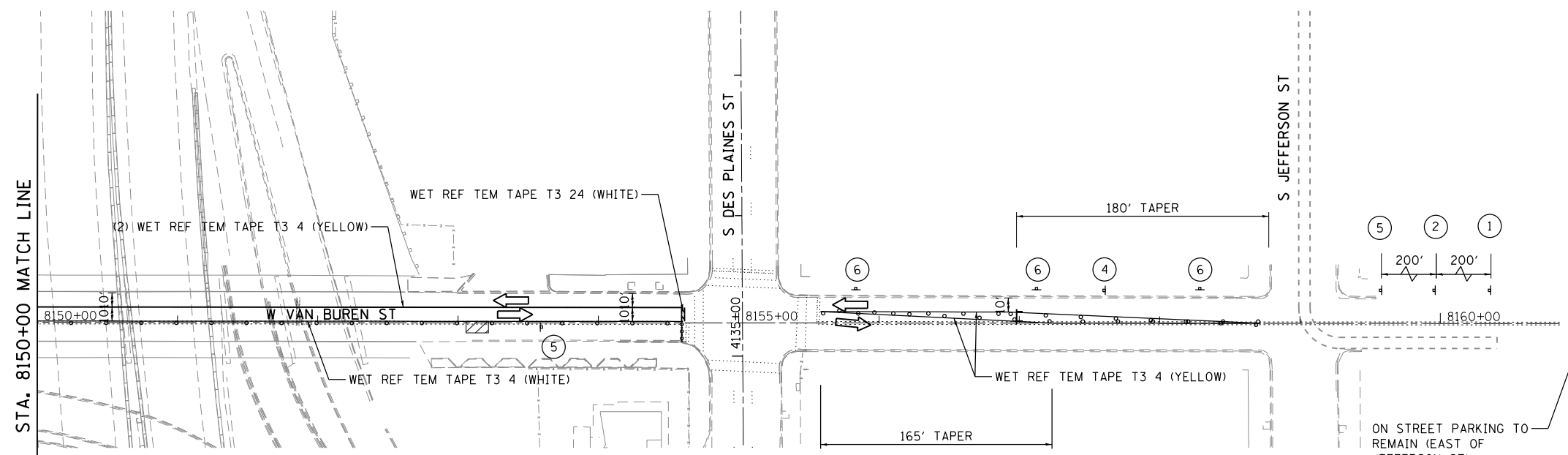
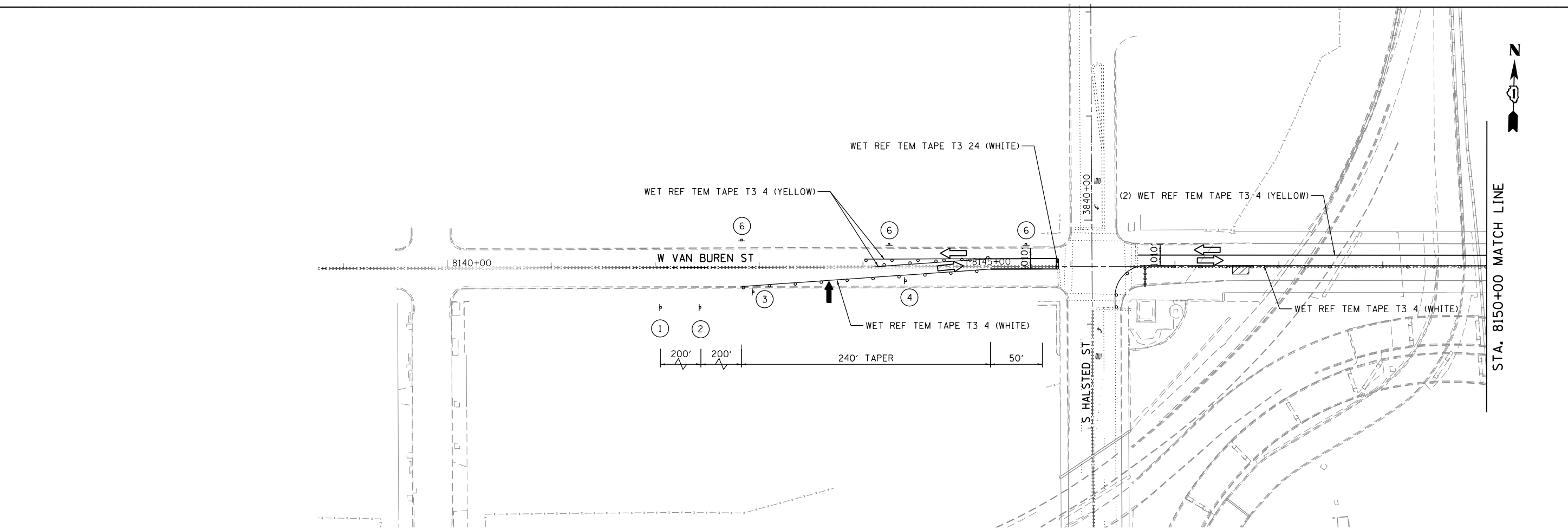
**OVERALL BULKHEAD AND  
CONCRETE FILL PLAN**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	5
CONTRACT NO. 60W36				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FILE NAME = I:\7290\729021 - Circle Interchange Tunnel Bulkheading\CADD\CADD\_SHEETS\72901\_20-WOT-Stage 1\_Deaplanes.dgn



- ROAD  
CONSTRUCTION  
AHEAD

W20-1103(O)-48

①
- [Worker icon]

W20-7(O)-48

②
- [Right turn arrow]

W1-3L(O)-48

③
- [Double arrow]

W1-3L(O)-48

④
- [Right turn arrow]

W1-3R(O)-48

⑤
- NO  
PARKING  
ANY  
TIME

R7-1D  
12" x 18"

⑥
- [Arrow]

W-1-6R(O)-6030  
(ABOVE BARRICADE)

⑦

- LEGEND**
- WORK AREA
  - CONE, DRUM OR BARRICADE  
(NOT REQUIRED FOR MOVING OPERATIONS)
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - FLAGGER WITH TRAFFIC CONTROL SIGN
  - BARRICADE OR DRUM WITH FLASHING LIGHT
  - TYPE III BARRICADE WITH FLASHING LIGHTS
  - ARROW BOARD
  - TYPE III BARRICADE W/2 FLASHING  
BEACONS (NO. OF BARRICADES AS  
DIRECTED BY THE ENGINEER)

NOTES:  
1. FOR ADDITIONAL TRAFFIC CONTROL AND SIGN DETAILS SEE HIGHWAY STANDARD 701606.



USER NAME = r9e11	DESIGNED -	REVISED -	
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	DATE -	REVISED -	

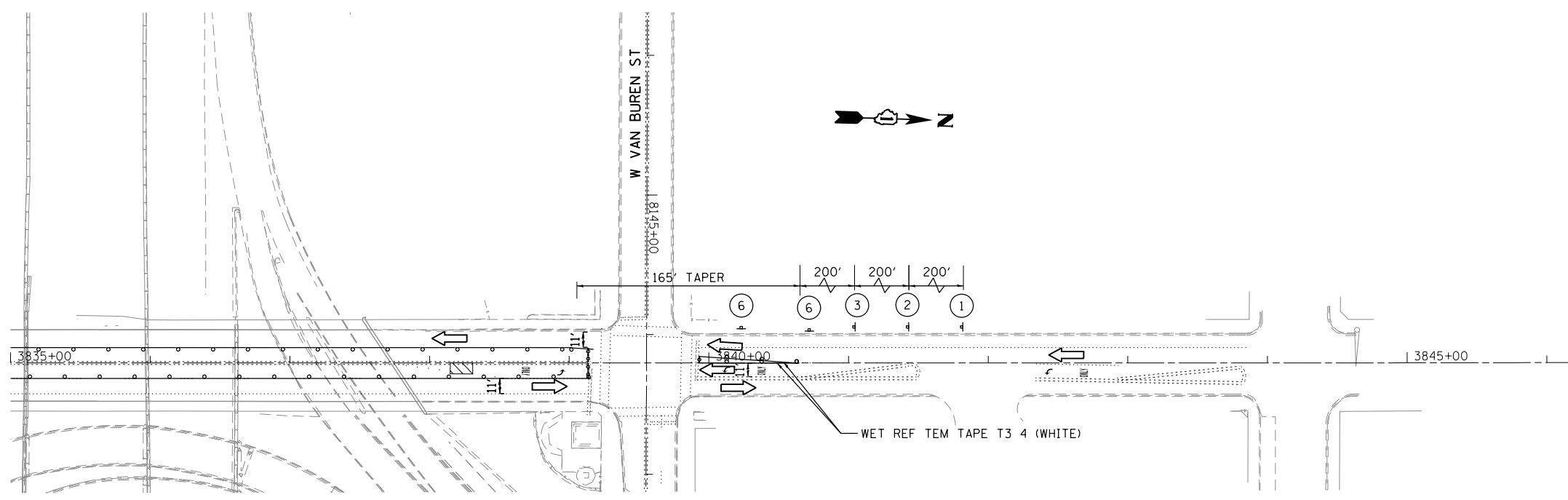
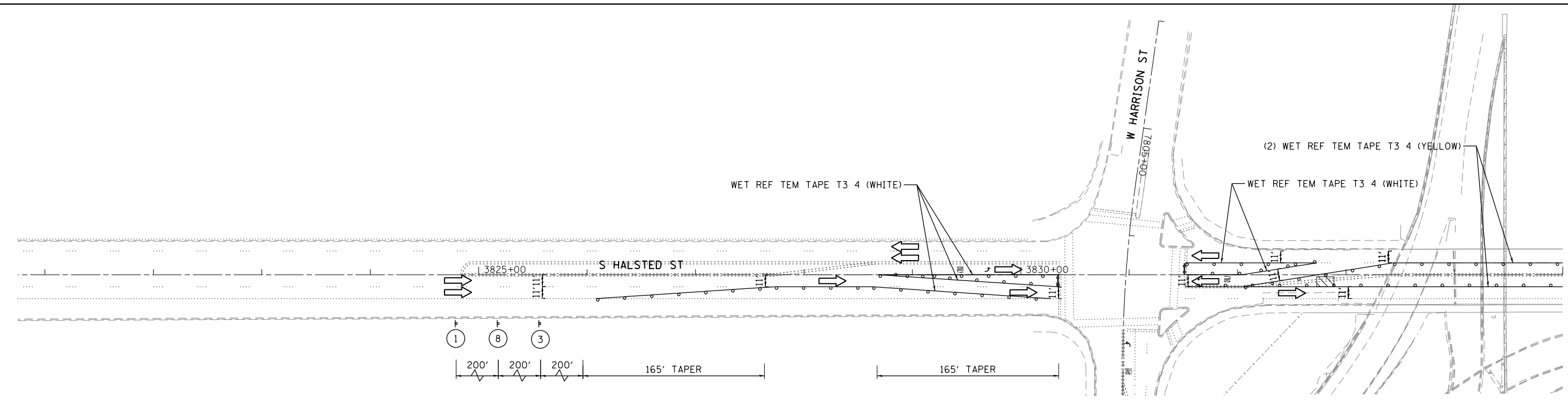
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
VAN BUREN ST.**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	6
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = I:\7290\7290.21 - Circle Interchange Tunnel Bultheading\CADD\CADD SHEETS\72903.20-MO1-Stage 1-Halsted.dgn



**LEGEND**

- WORK AREA
- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATIONS)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- TYPE III BARRICADE W/2 FLASHING BEACONS (NO. OF BARRICADES AS DIRECTED BY THE ENGINEER)

- ROAD CONSTRUCTION AHEAD  
W20-1103(O)-48
- LEFT LANE CLOSED AHEAD  
W20-5L(O)-48
- W20-7(O)-48
- NO PARKING ANY TIME  
R7-1D 12" x 18"
- W-1-6R(O)-6030 (ABOVE BARRICADE)
- RIGHT LANE CLOSED AHEAD  
W20-5R(O)-48

**NOTES:**

1. FOR ADDITIONAL TRAFFIC CONTROL AND SIGN DETAILS SEE HIGHWAY STANDARD 701606.



USER NAME = r9e11  
 PLOT SCALE = 100.0000' / 1" =  
 PLOT DATE = 4/12/2013

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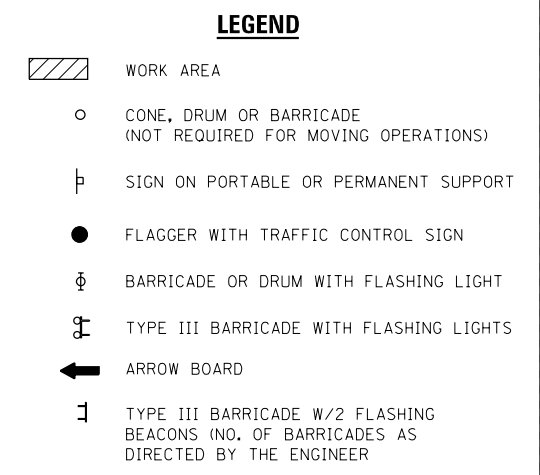
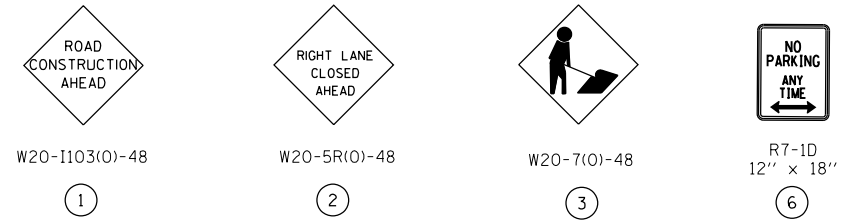
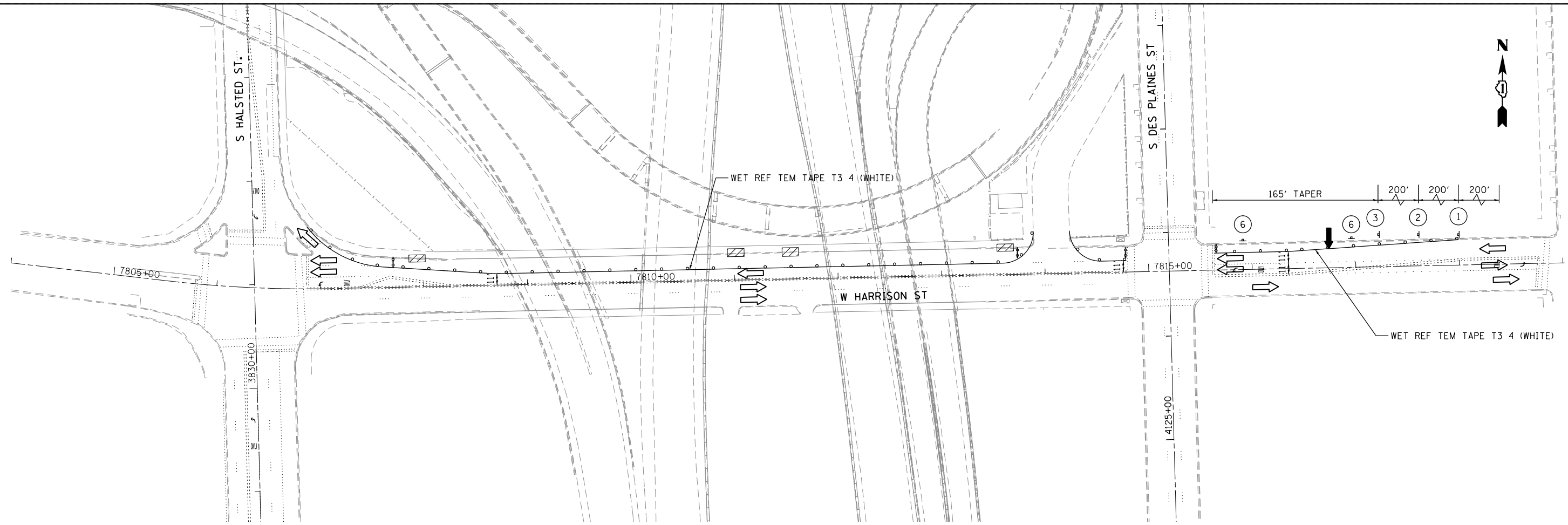
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 HALSTED ST.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	7
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTES:  
 1. FOR ADDITIONAL TRAFFIC CONTROL AND SIGN DETAILS SEE HIGHWAY STANDARD 701606.

**COLLINS ENGINEERS**

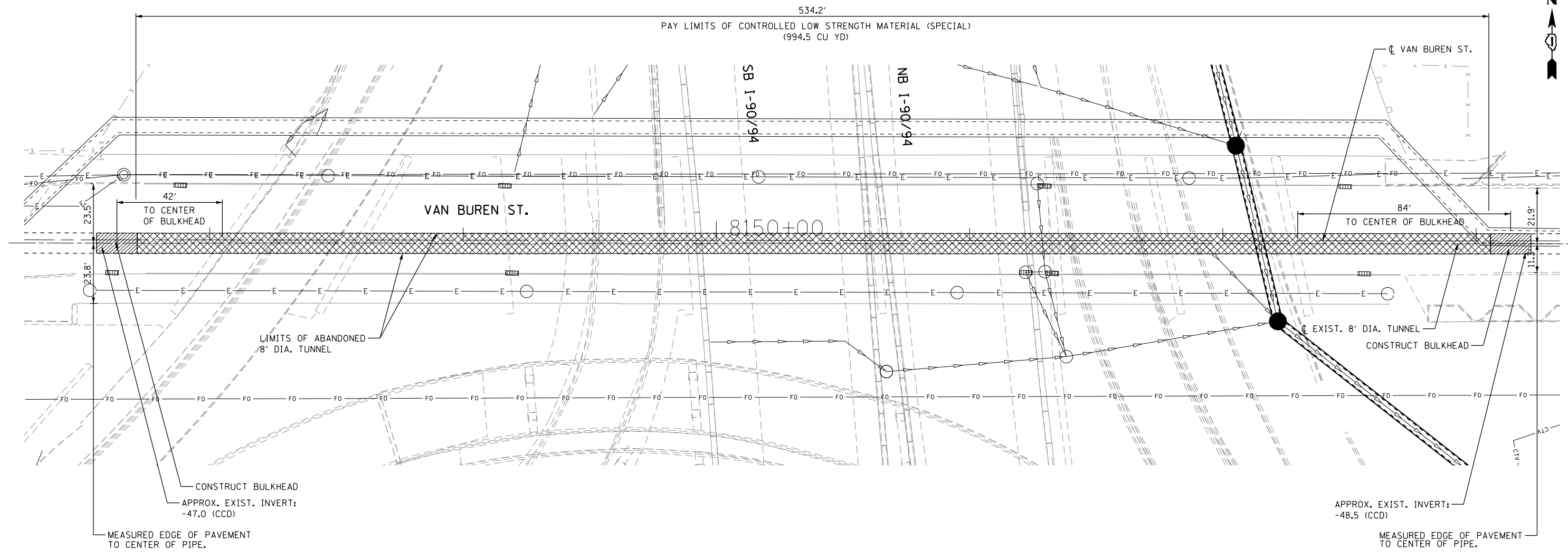
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 HARRISON ST.**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	8
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. LOCATION OF EXISTING WATER TUNNEL SHOWN FROM EXISTING RECORD DRAWINGS WHICH HAVE BEEN INCLUDED TO AID THE CONTRACTOR IN LOCATING THE EXISTING TUNNEL. THE CONTRACTOR SHALL LOCATE THE EXISTING TUNNEL AS DESCRIBED IN THE SPECIAL PROVISIONS. THIS WORK SHALL BE PAID FOR AS "LOCATE TUNNEL".
2. ABANDONED TUNNEL SHALL BE FILLED WITH CLSM BETWEEN PROPOSED BULKHEADS.

**LEGEND**

- PROPOSED BULKHEAD
- EXISTING BULKHEAD
- FILL WITH CONTROLLED LOW STRENGTH MATERIAL (SPECIAL)

FILE NAME = I:\7290\7290.21 - Circle Interchange Tunnel Bulkheading\CADD\CADD SHEETS\7290.20-shr-L-DeepPlan.dgn

**COLLINS ENGINEERS**

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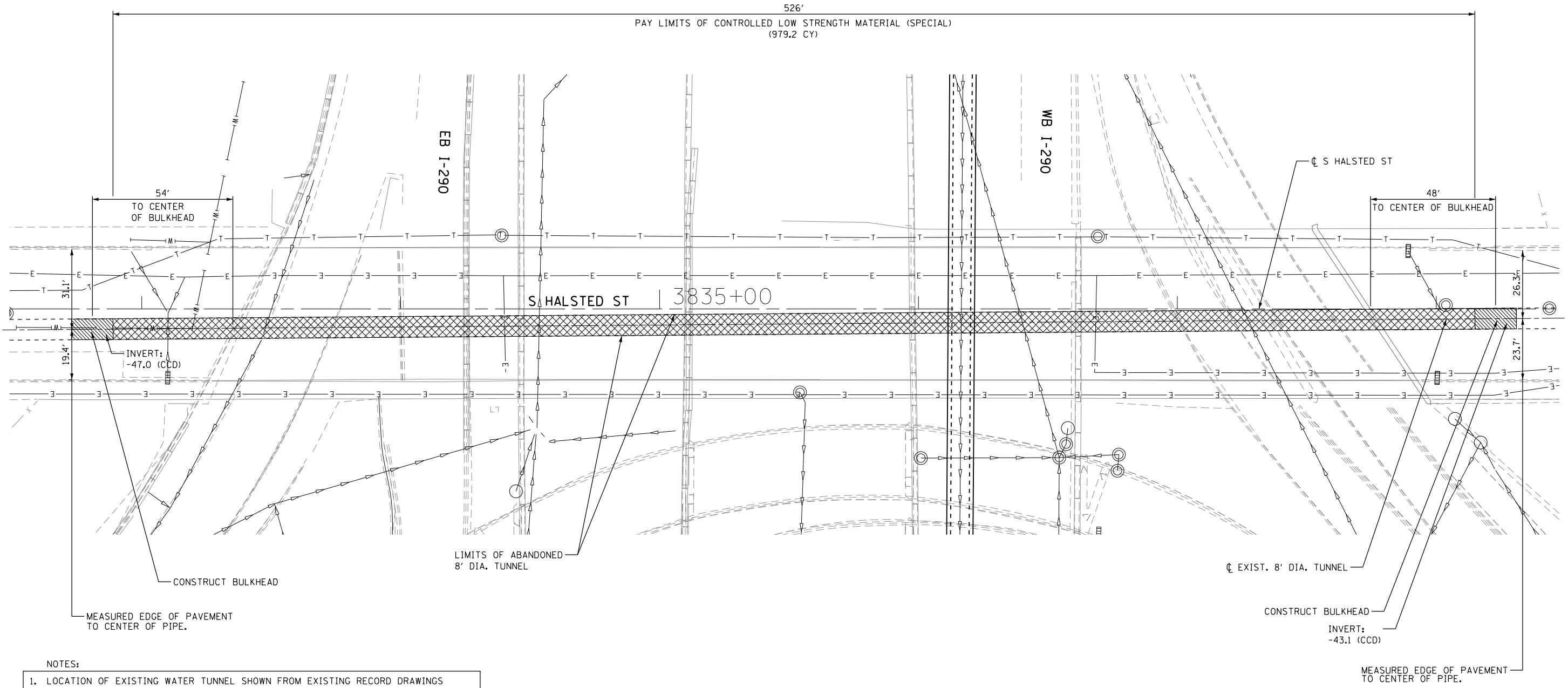
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN - LOCATION NO. 1  
 VAN BUREN STREET**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W36	



**NOTES:**

1. LOCATION OF EXISTING WATER TUNNEL SHOWN FROM EXISTING RECORD DRAWINGS WHICH HAVE BEEN INCLUDED TO AID THE CONTRACTOR IN LOCATING THE EXISTING TUNNEL. THE CONTRACTOR SHALL LOCATE THE EXISTING TUNNEL AS DESCRIBED IN THE SPECIAL PROVISIONS. THIS WORK SHALL BE PAID FOR AS "LOCATE TUNNEL".
2. ABANDONED TUNNEL SHALL BE FILLED WITH CLSM BETWEEN PROPOSED BULKHEADS.

**LEGEND**

- PROPOSED BULKHEAD
- EXISTING BULKHEAD
- FILL WITH CONTROLLED LOW STRENGTH MATERIAL (SPECIAL)

FILE NAME = I:\7290\7290.21 - Circle Interchange Tunnel Bulkheading\CADD\CADD SHEETS\7290.20-sh-halsted.dgn



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PLOT SCALE = 40.0000' / 1" =	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

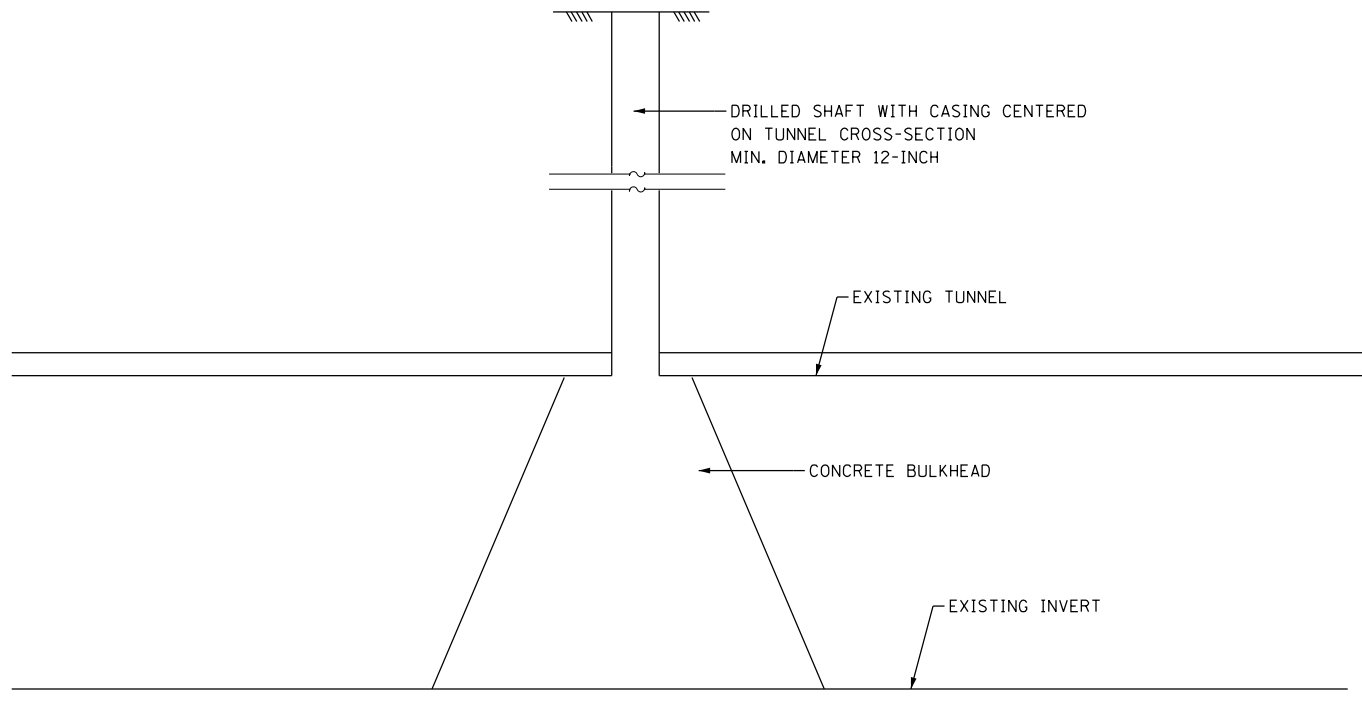
**PLAN - LOCATION NO. 2  
HALSTED STREET**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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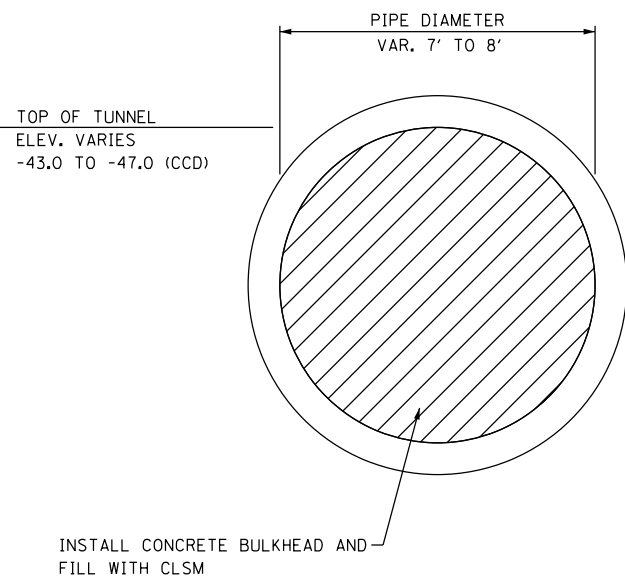
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W36	







**TYPICAL SECTION**  
**PROPOSED BULKHEAD**  
**VAN BUREN STREET**  
**HALSTED STREET**  
**HARRISON STREET**



**TYPICAL SECTION**  
**EXISTING WATER TUNNEL**  
**VAN BUREN STREET**  
**HALSTED STREET**  
**HARRISON STREET**

**TUNNEL NOTES:**

THE WATER TUNNELS SHOWN ARE FROM CDWM RECORD DRAWINGS AND ARE INCLUDED FOR CONTRACTOR INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACCURATELY LOCATE THE CROWN OF THE WATER TUNNELS USING PROBE BORINGS, PER CDWM REQUIREMENTS.

THE EXISTING WATER TUNNELS ARE ABANDONED. THE CONTRACTOR SHALL PROVIDE DEWATERING AS NEEDED IN THE EXISTING WATER TUNNELS. THE MAXIMUM DISCHARGE RATE SHALL BE 300 GPM. FOR ABANDONED AND INACCESSIBLE TUNNELS, THE CONTRACTOR SHALL TAKE INTO CONSIDERATION THAT WATER HAS INFILTRATED THE EXISTING TUNNELS AND THEY ARE FILED TO CAPACITY WITHIN AND BEYOND THE PROJECT LIMITS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF CONTROLLED LOW STRENGTH MATERIAL (SPECIAL).

OBTAIN TWO CORE SAMPLES PER BULKHEAD, ONE (1) AT THE 10 AND ONE (1) AT THE 4 O'CLOCK POSITIONS OR ONE (1) AT THE 2 AND ONE (1) AT THE 8 O'CLOCK POSITIONS FOR COMPRESSION STRENGTH TESTING.

INSTALLATION OF GROUT OR CLSM SHALL NOT TAKE PLACE UNTIL THE CONCRETE STRENGTH OF THE BULKHEAD ACHIEVES 2,000 PSI IN 2-3 DAYS AFTER PLACEMENT. CONCRETE CYLINDERS SHALL BE CAST AND BROKEN TO VERIFY THE BULKHEAD CONCRETE COMPRESSIVE STRENGTH. SUBMIT THE TEST RESULTS TO THE ENGINEER FOR APPROVAL.

THE GROUT OR CLSM SHALL HAVE A MINIMUM SPREAD DIAMETER OF 20-INCHES USING AN INVERTED SLUMP CONE, APPROVED BY THE ENGINEER.

THE WATER TUNNEL AND SHAFT FILLING SHALL BE PERFORMED IN FOUR (4) LIFTS. THE FOURTH LIFT INTO THE DRILLED ACCESS HOLE SHALL EXTEND A MINIMUM OF 10 FEET ABOVE THE TOP OF THE EXISTING CROWN OF THE WATER TUNNEL. THE CONTRACTOR SHALL LET THE CLSM SET A MINIMUM 24-HOUR PERIOD BETWEEN LIFTS. THE MINIMUM STRENGTH OF THE CLSM SHALL NOT BE LESS THAN 125 PSI.

THE CONTRACTOR MAY INSTALL AND UTILIZE FILL/VENT PIPE(S) TO FILL THE WATER TUNNEL. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE EXISTING TUNNEL INVERTS. THE CONTRACTOR SHALL ENSURE THE FILL/VENT PIPE(S) ARE SPACED SUCH THAT THE CLSM OR GROUT IS EQUALLY DISTRIBUTED BY GRAVITY FLOW WITHIN THE WATER TUNNEL.

BACKFILL THE BALANCE OF THE DRILLED SHAFTS WITH SAND, A MINIMUM OF 72-HOURS AFTER THE PLACEMENT OF THE GROUT OR CLSM.

**SCHEDULE OF QUANTITIES**

	LOCATE TUNNEL	BULKHEAD TUNNEL	BULKHEAD TUNNEL (SPECIAL)	CONTROLLED LOW STRENGTH MATERIAL (SPECIAL)
	L SUM	L SUM	L SUM	CU YD
LOCATION 1 (VAN BUREN ST)	0.2	0.29	0	994.5
LOCATION 2 (HALSTED ST)	0.2	0.29	0	979.2
LOCATION 3 (HARRISON STREET)	0.6	0.42	1	1097.8
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3071.5</b>

HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ Ndes
PATCHING	
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm) (2-1/4" MIN.)	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD / IN.

THE "AC TYPE" FOR ALL POLYMERIZED HMA MIXES SHALL BE SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIAL, SEE SPECIAL PROVISIONS.

FILE NAME = 8FILES

**COLLINS ENGINEERS**

USER NAME = rge11  
 PLOT SCALE = 100.0000' / 1" =  
 PLOT DATE = 4/12/2013

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

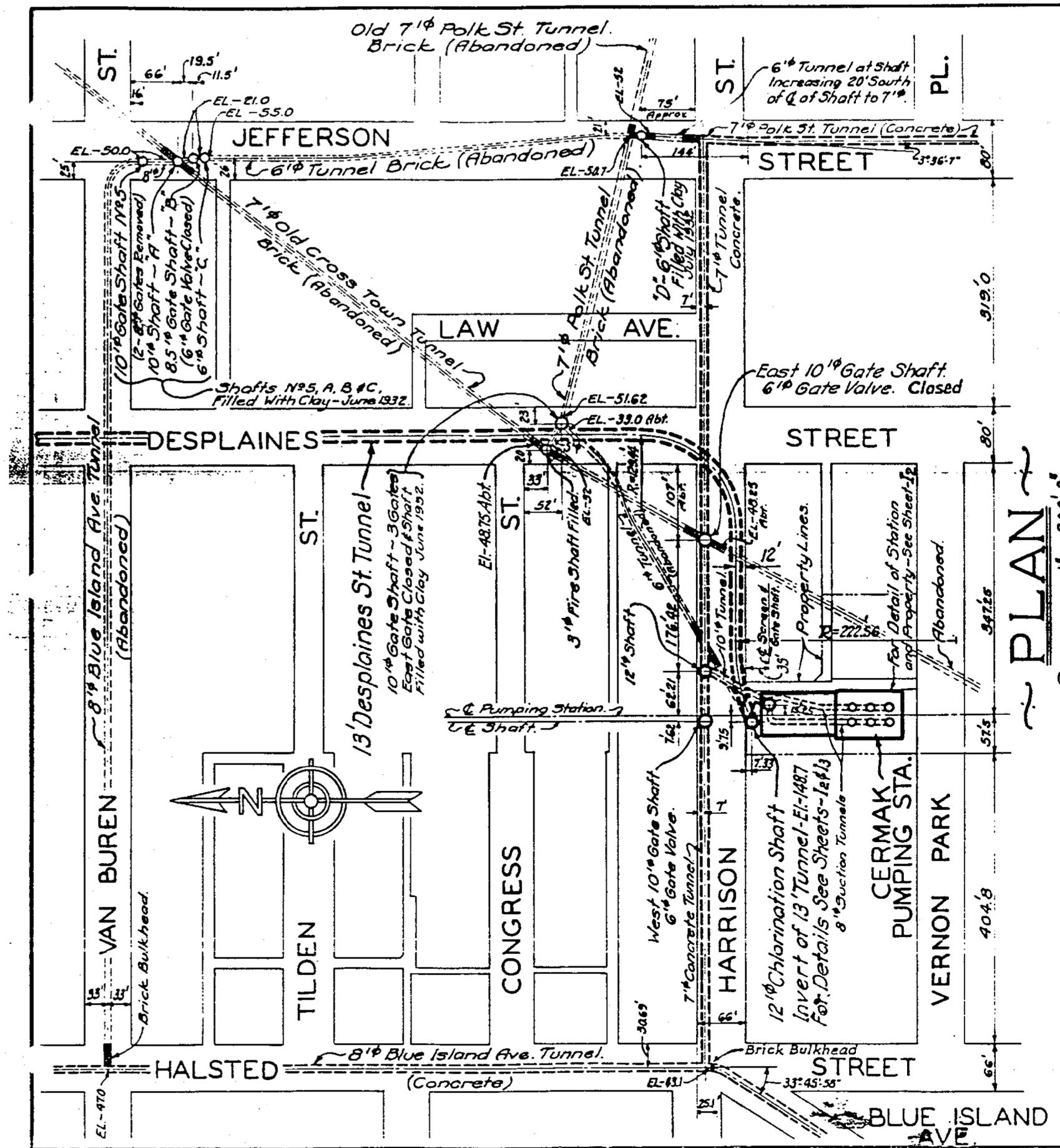
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

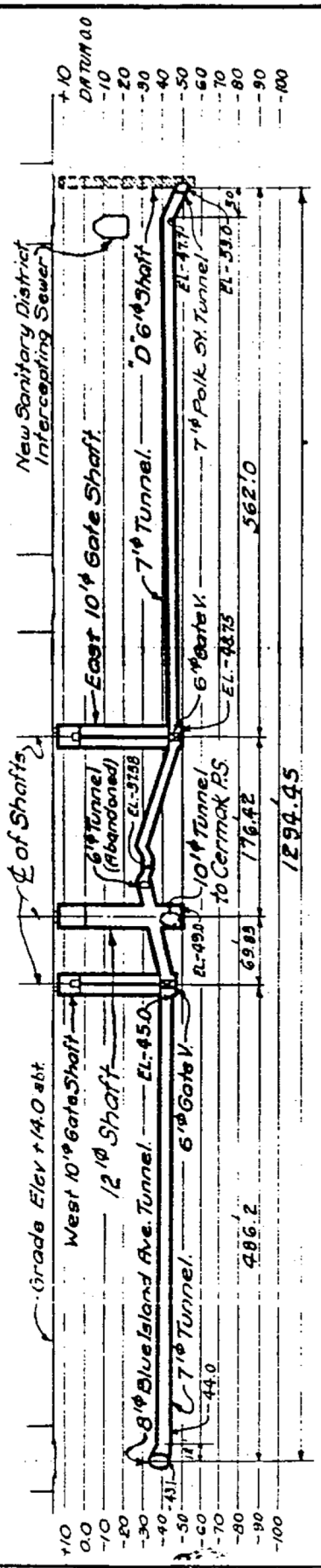
**TUNNEL DETAILS AND NOTES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	12
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



PLAN  
SCALE ~ 1" = 200'-0"



PROFILE THRU 7 FT. TUNNEL IN HARRISON ST.  
SCALE ~ HOR. 1 IN. = 200'-0" ~ VERT. 1 IN. = 100'-0"

NOTE: ~  
Elevations are to invert of Tunnels.

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SUBJECT TO VERIFICATION

CITY OF CHICAGO  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF ENGINEERING  
DIVISION OF WATER WORKS DESIGN

TUNNELS IN VICINITY OF  
CERMAK PUMPING STATION

SCALE: 1 in. = 200 ft.  
Revised - June 1940 - T.A.R.  
Nov. 1974

APRIL, 1937  
FILE 3-N

FILE NAME = 8FILES

COLLINS  
ENGINEERS

USER NAME = r9e11  
PLOT SCALE = 2,0000 1/ in.  
PLOT DATE = 4/12/2013

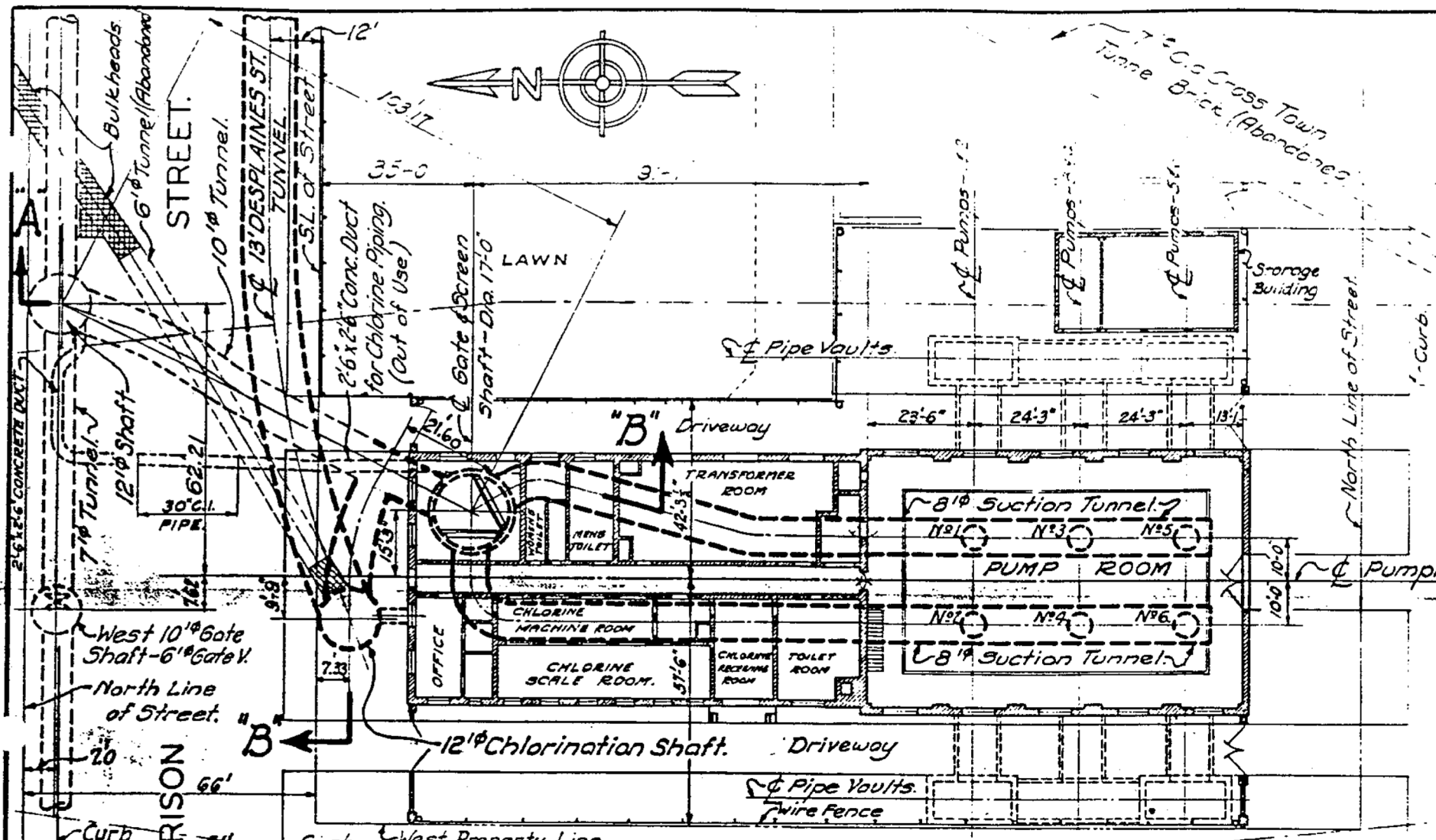
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

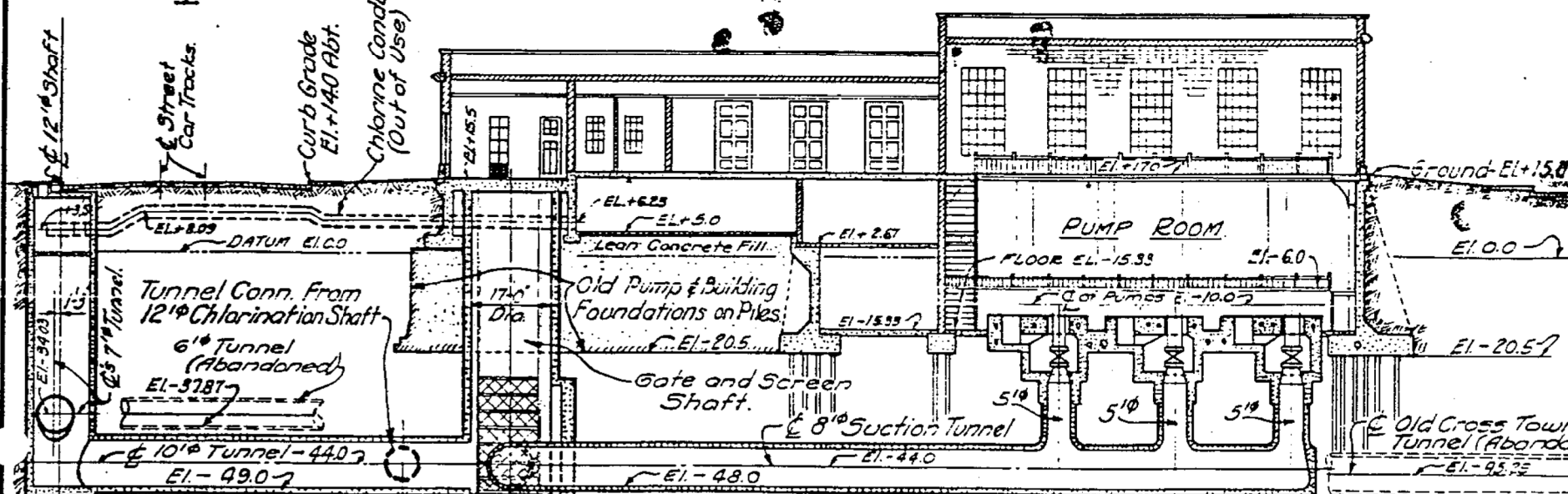
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SCALE: SHEET NO. OF SHEETS STA. TO STA.

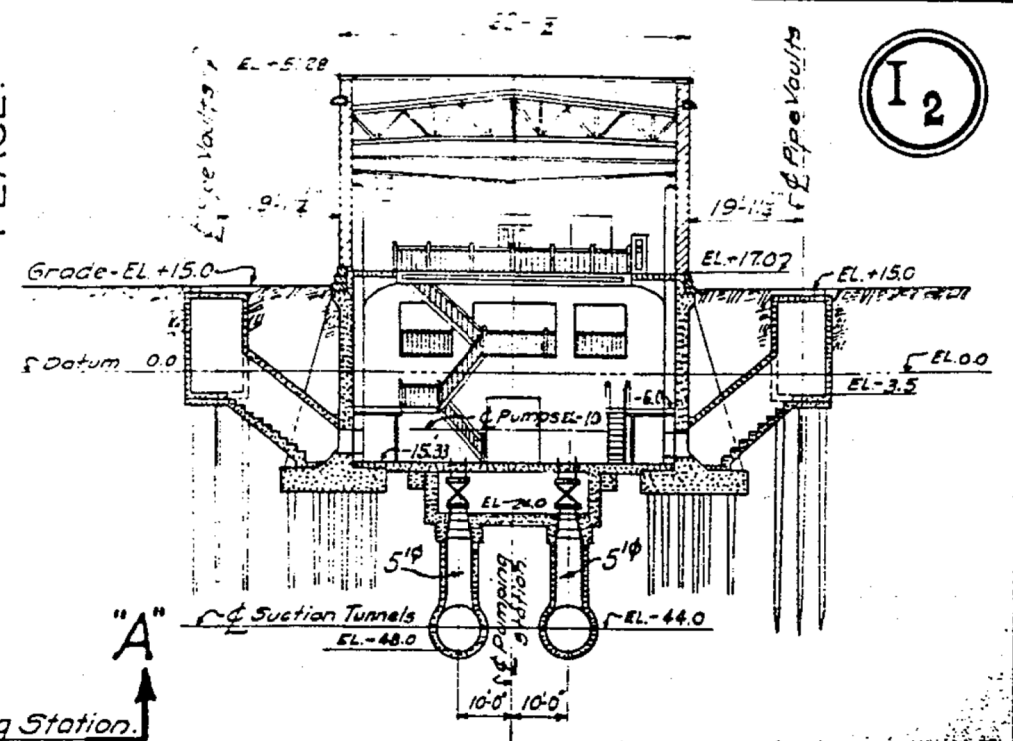
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CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



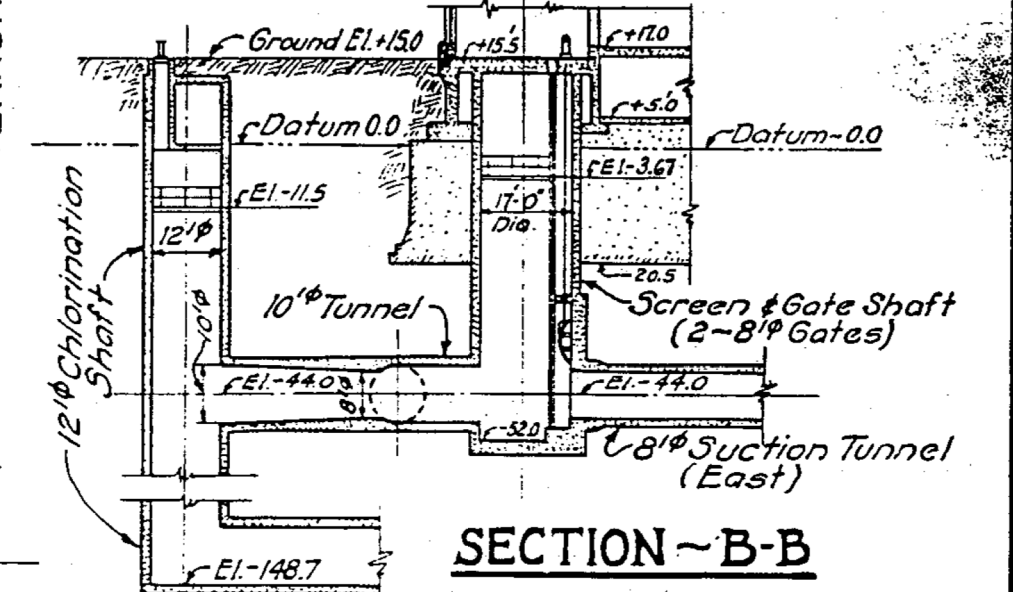
**GENERAL PLAN**



**LONGITUDINAL SECTION -A-A-**



**CROSS SECTION THROUGH PUMP ROOM**



**SECTION ~B-B**

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DEPARTMENT OF PUBLIC WORKS  
BUREAU OF ENGINEERING  
DIVISION OF WATER WORKS DESIGN

**CERMAK PUMPING STATION**

SCALE: 1 in. = 40 ft. APRIL, 1937  
Revised May 1940. T.A.R. 1057 FILE 3-N

FILE NAME = 8FILES

**COLLINS ENGINEERS**

USER NAME = r9e11  
PLOT SCALE = 2,0000 1/ in.  
PLOT DATE = 4/12/2013

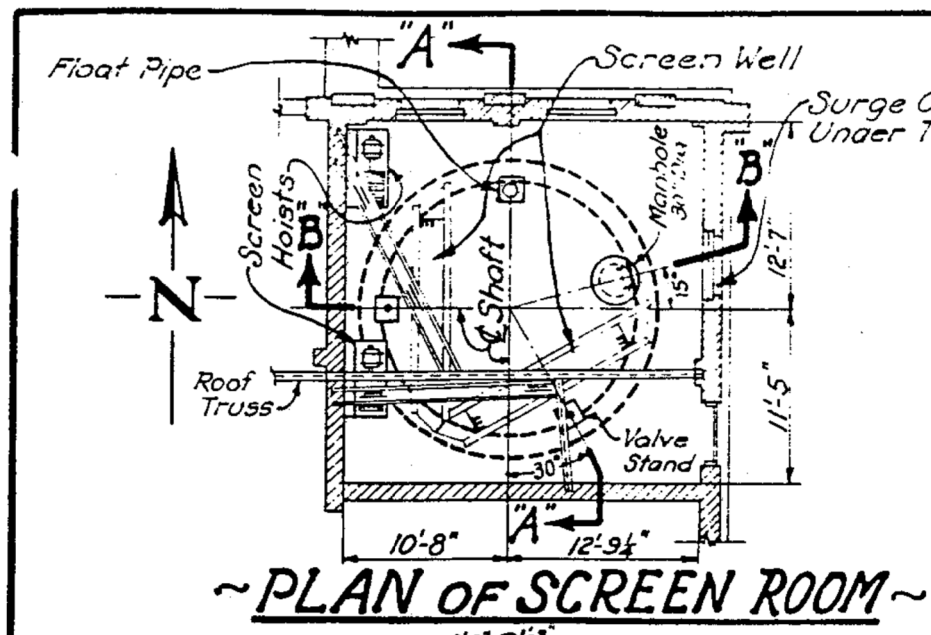
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

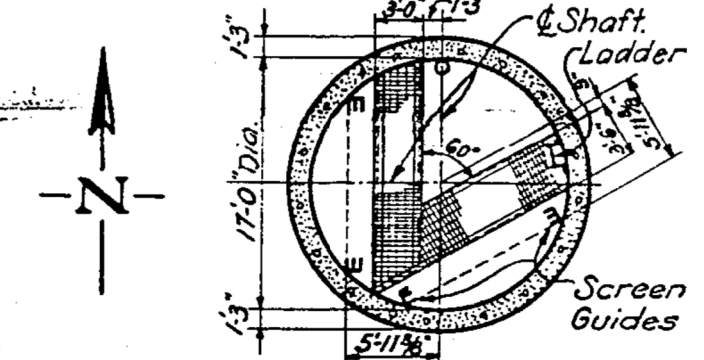
RECORD DRAWING

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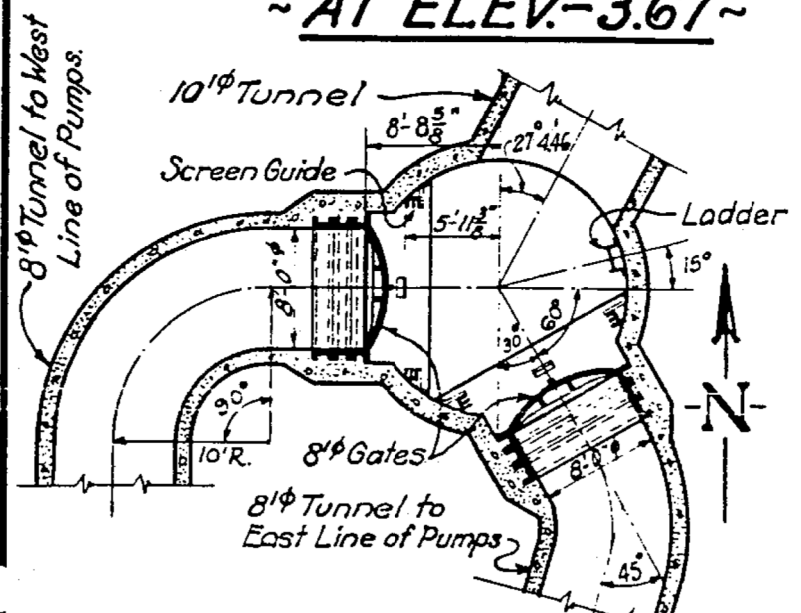
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CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



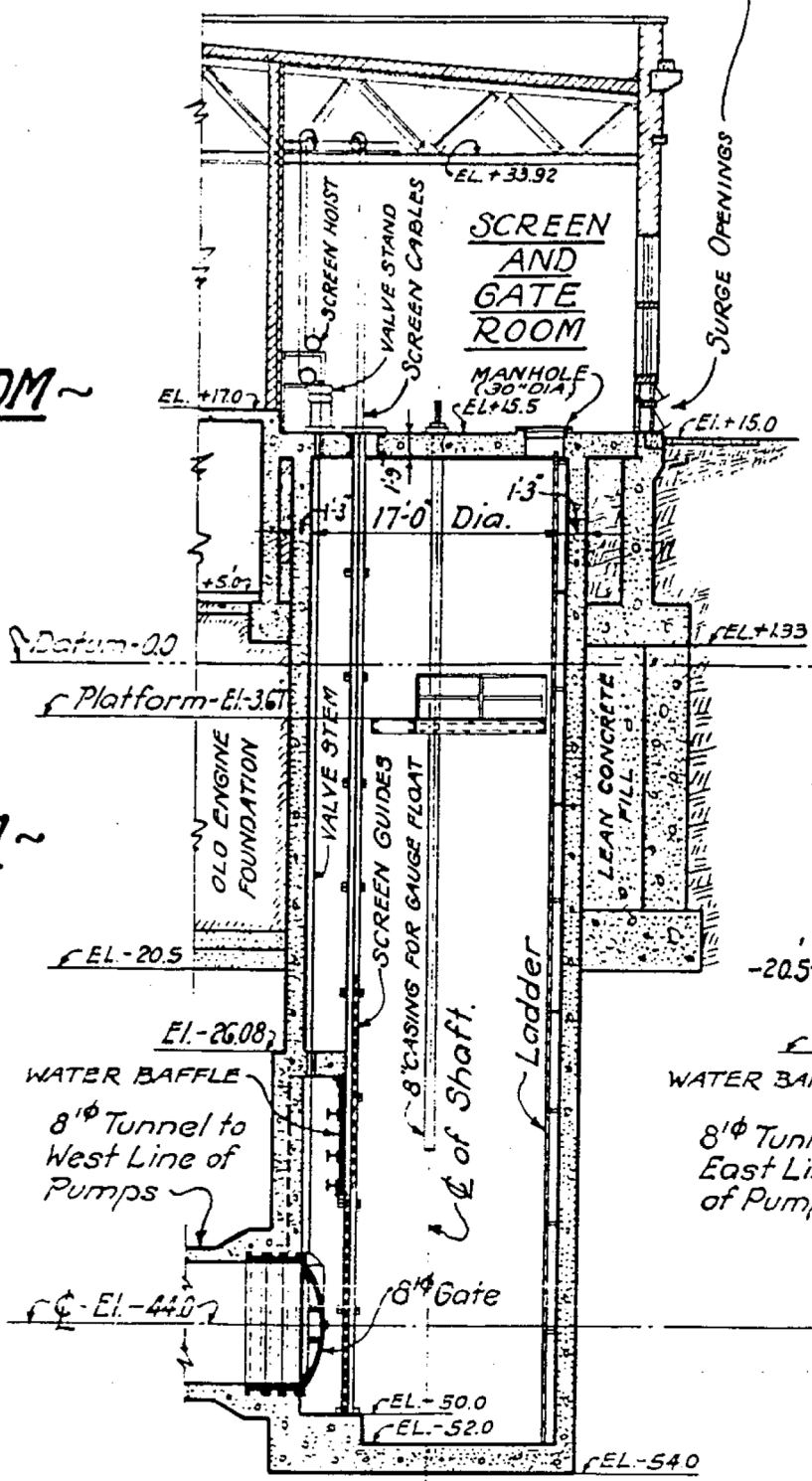
~ PLAN OF SCREEN ROOM ~



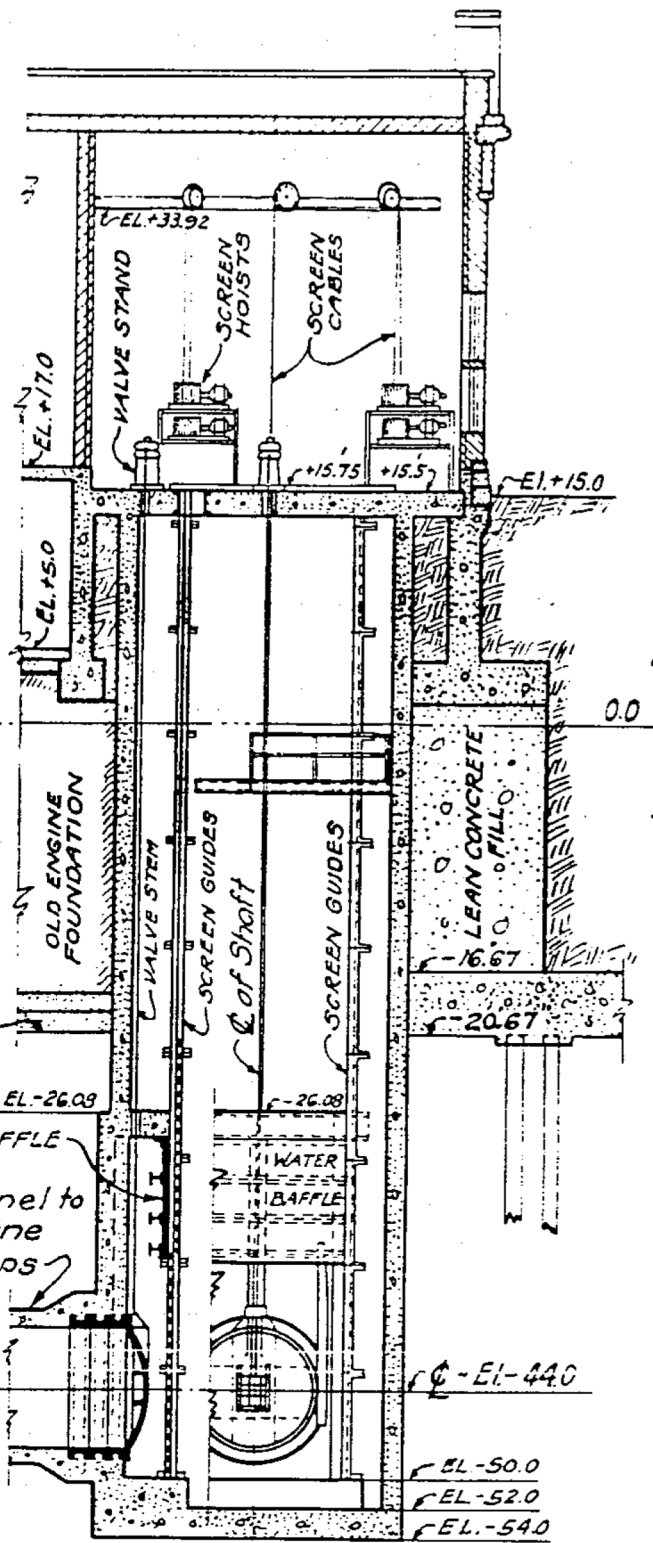
~ PLAN OF PLATFORM ~  
~ AT ELEV. -3.67 ~



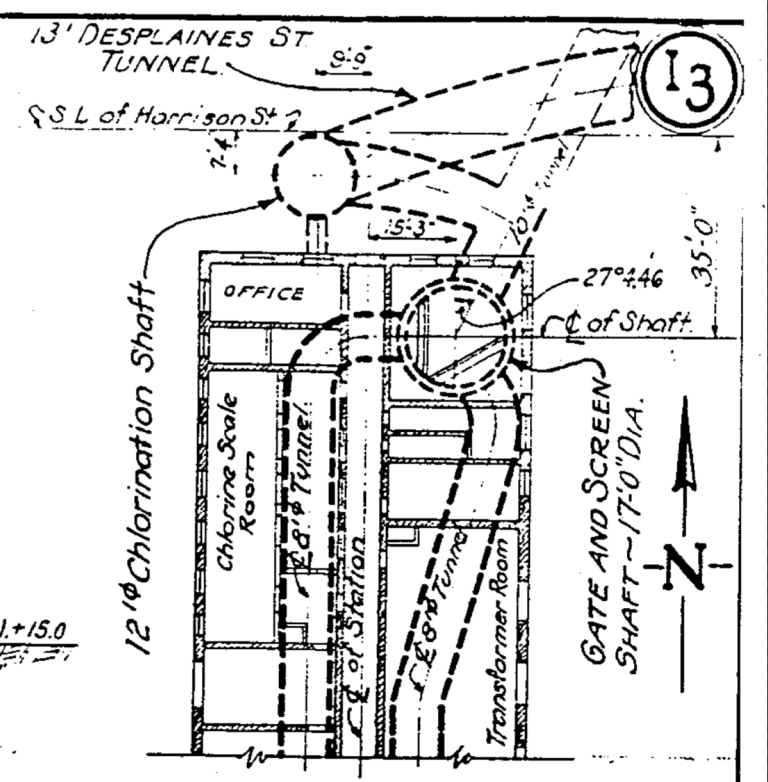
~ SECTION -C-C- ~



~ SECTION -B-B- ~



~ SECTION -A-A- ~



~ LOCATION PLAN ~  
Scale - 1" = 40'-0"

NOTE:-  
For General Plan of Station  
See Drawing - I-2.

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BUREAU OF ENGINEERING  
DIVISION OF WATER WORKS DESIGN

CERMAK PUMPING STATION  
SCREEN AND GATE SHAFT

SCALE: 1 inch = 15 ft.      January 1941  
FILE 3-N

FILE NAME = 8FILES

COLLINS ENGINEERS

USER NAME = r9e11  
PLOT SCALE = 2,0000 1/ in.  
PLOT DATE = 4/12/2013

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

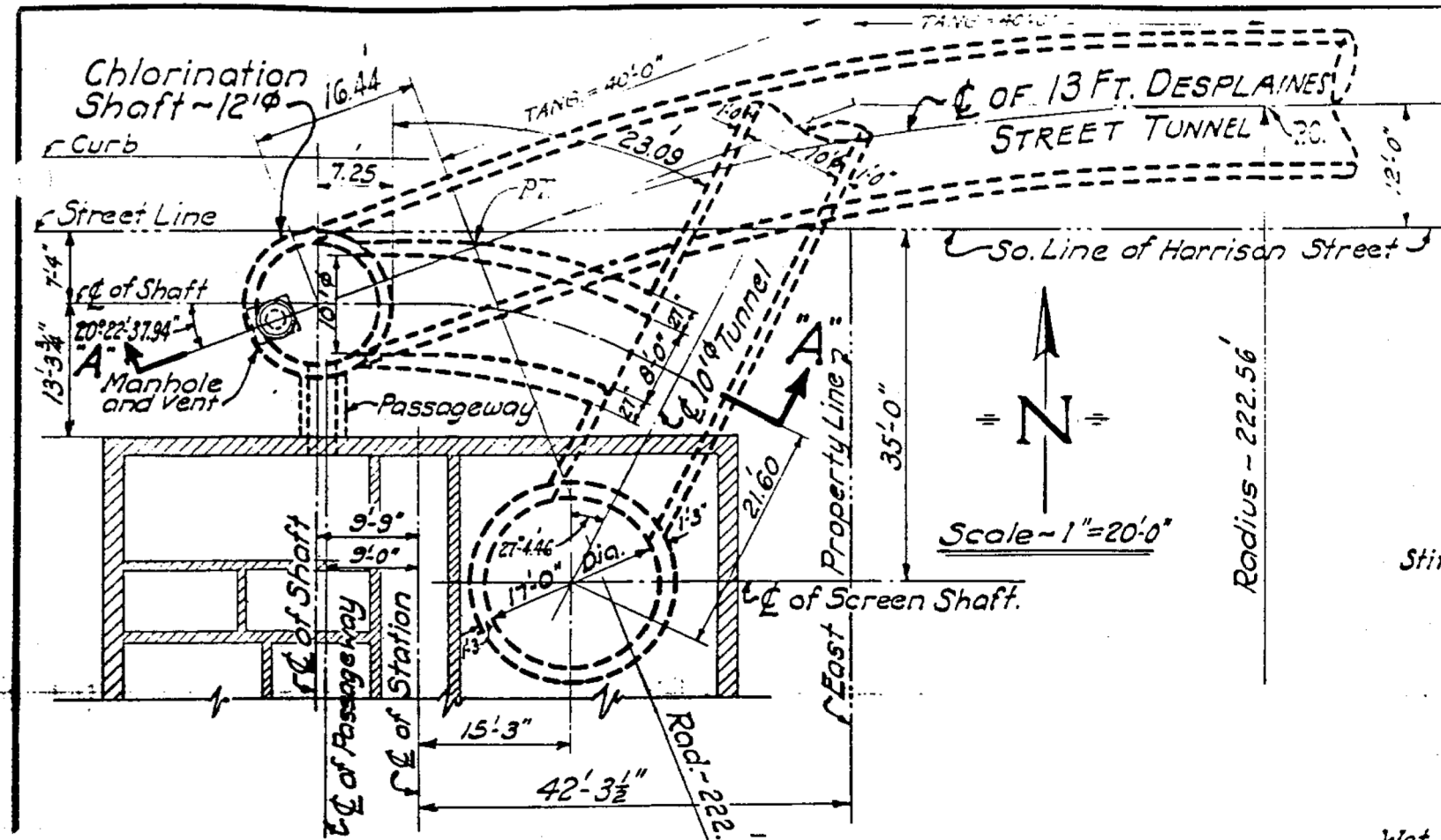
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RECORD DRAWING

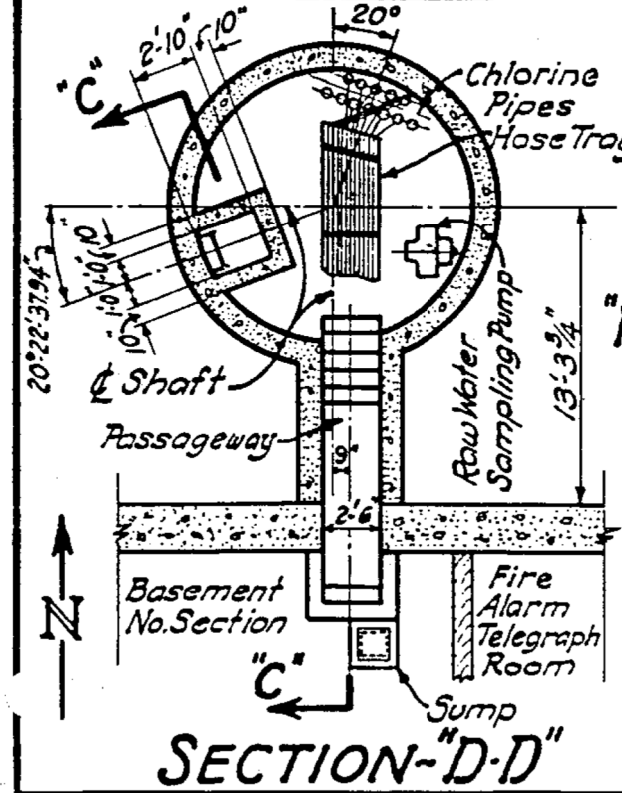
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

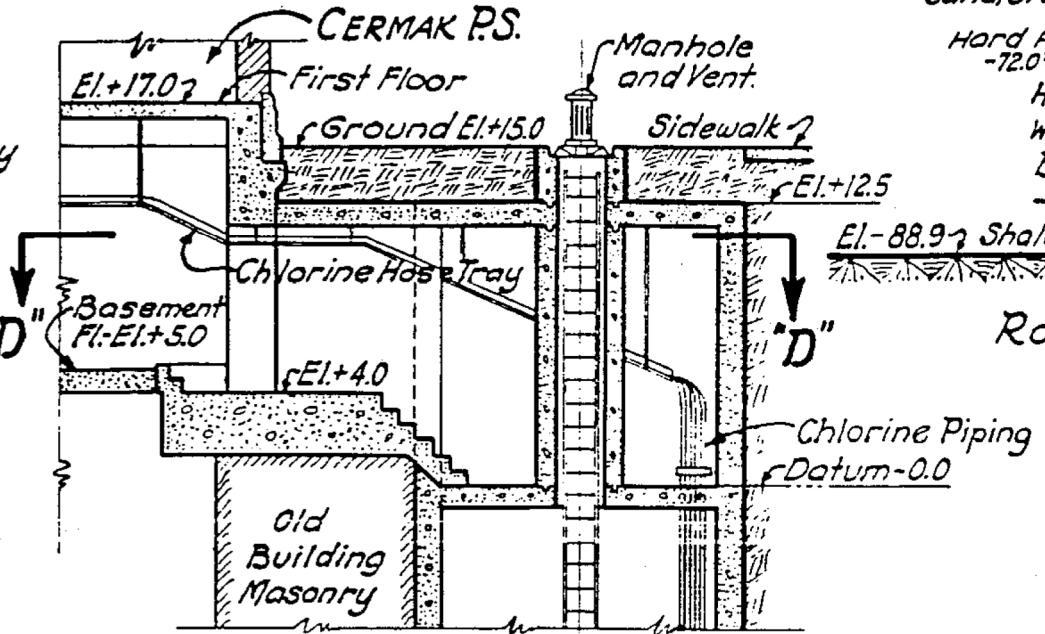




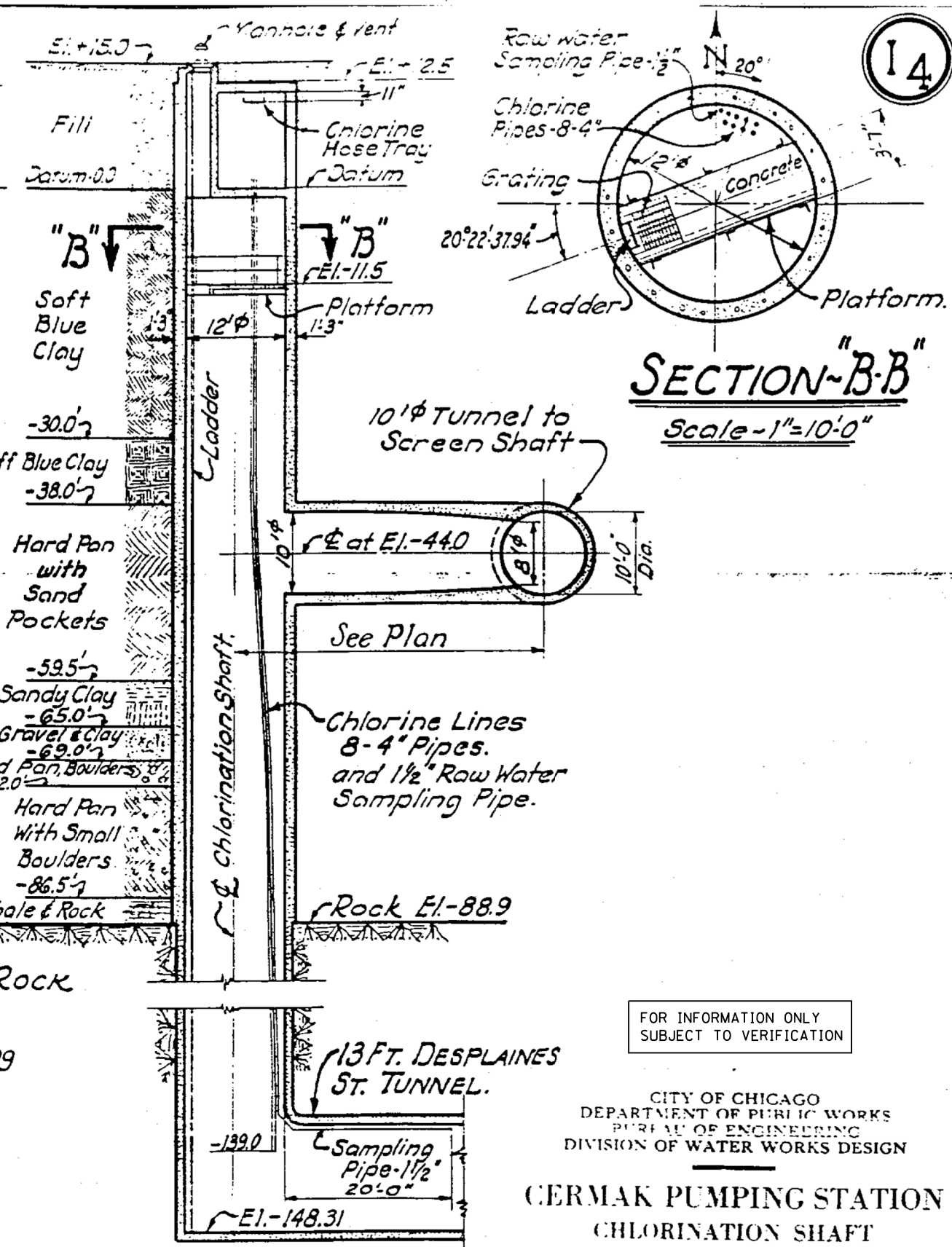
**PLAN**



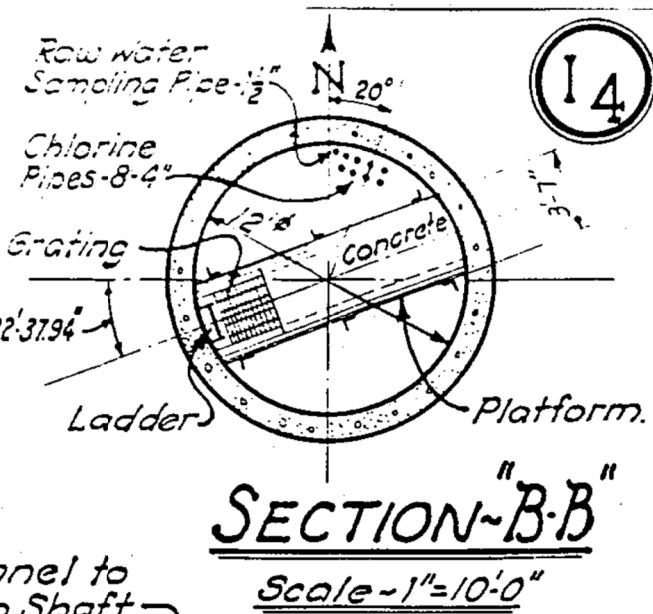
**SECTION-D-D**  
Scale - 1" = 10'-0"



**SECTION-C-C**  
Scale - 1" = 10'-0"



**SECTION-A-A**  
Scale: 1 inch = 10 and 20 ft.



**SECTION-B-B**  
Scale - 1" = 10'-0"

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CITY OF CHICAGO  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF ENGINEERING  
DIVISION OF WATER WORKS DESIGN

**CERMAK PUMPING STATION  
CHLORINATION SHAFT**

January 1941  
FILE 3-N

FILE NAME = 8FILES

**COLLINS  
ENGINEERS**

USER NAME = r9e11  
PLOT SCALE = 2.0000 1/ in.  
PLOT DATE = 4/12/2013

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

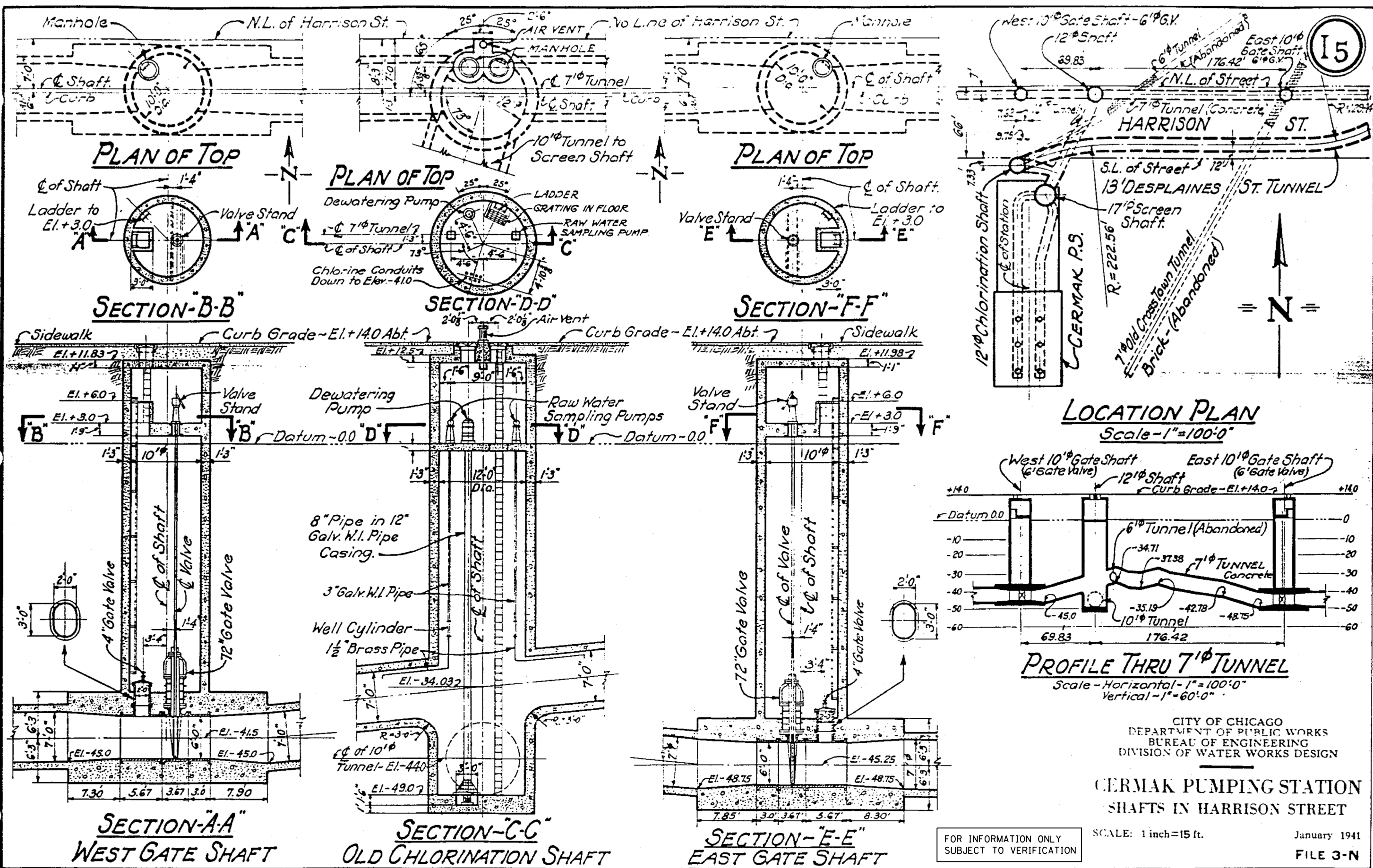
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RECORD DRAWING

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	16
				CONTRACT NO. 60W36

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



CITY OF CHICAGO  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF ENGINEERING  
 DIVISION OF WATER WORKS DESIGN

**CERMAK PUMPING STATION  
 SHAFTS IN HARRISON STREET**

SCALE: 1 inch = 15 ft.      January 1941  
 FILE 3-N

FOR INFORMATION ONLY  
 SUBJECT TO VERIFICATION

FILE NAME = 8FILES

**COLLINS  
 ENGINEERS**

USER NAME = r9e11  
 PLOT SCALE = 2,0000' / in.  
 PLOT DATE = 4/12/2013

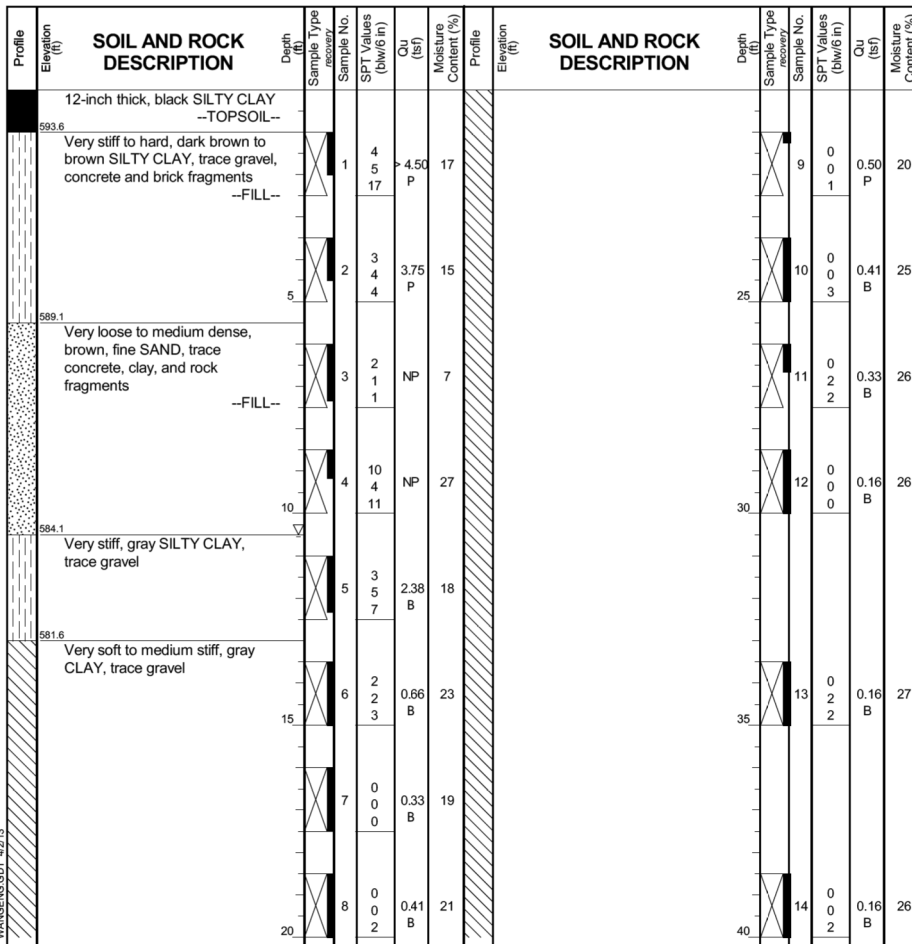
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DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

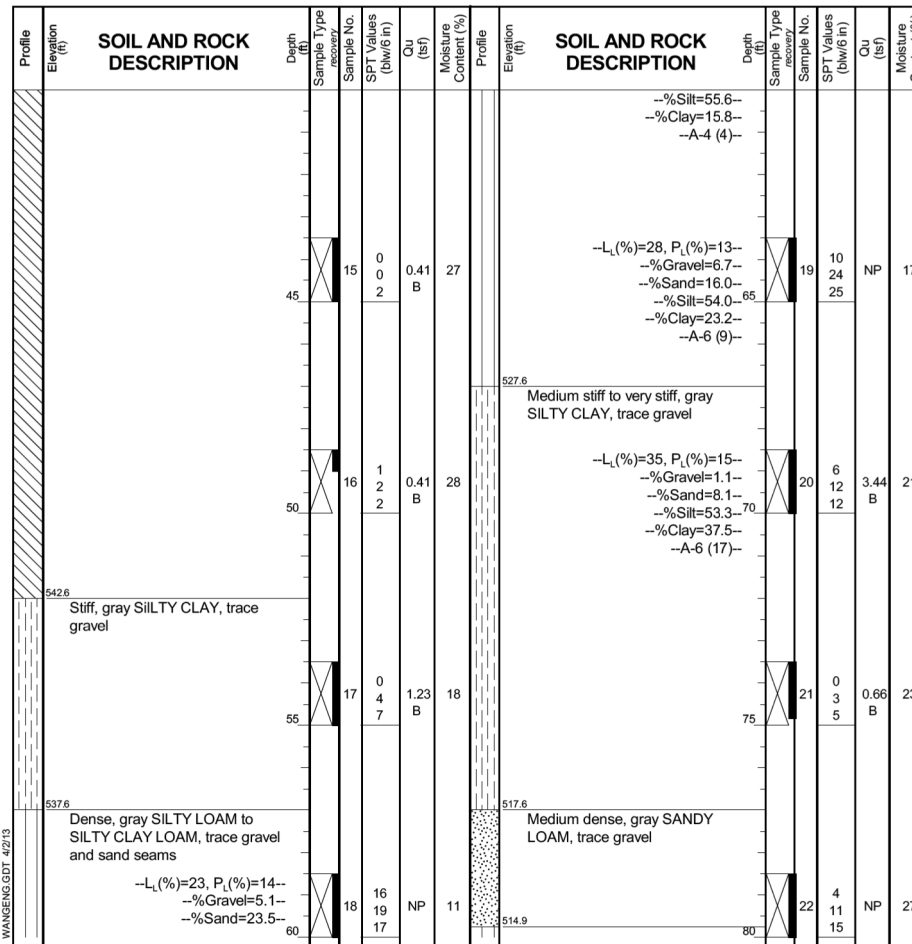
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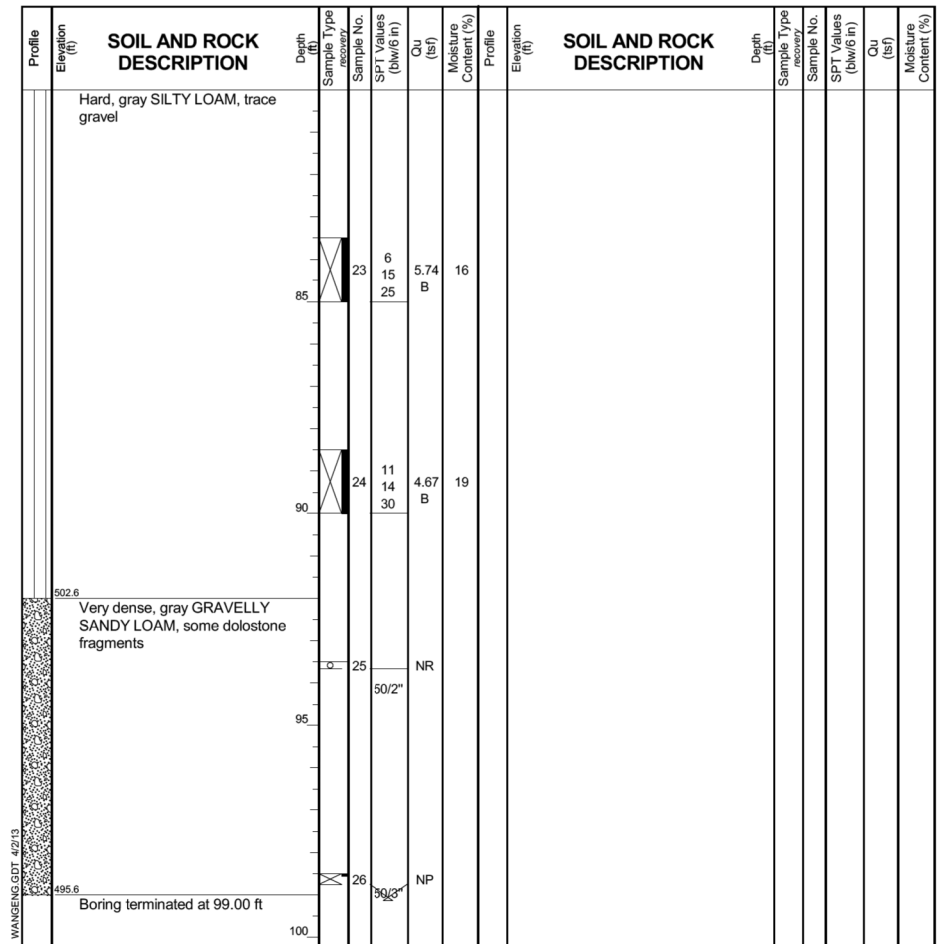
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90/94	0101.6-2P-1-3 (13)	COOK	37	17
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-03-2013	Complete Drilling	03-04-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' to 80'
While Drilling	10.50 ft	At Completion of Drilling	MUD (10')
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-03-2013	Complete Drilling	03-04-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' to 80'
While Drilling	10.50 ft	At Completion of Drilling	MUD (10')
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-03-2013	Complete Drilling	03-04-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' to 80'
While Drilling	10.50 ft	At Completion of Drilling	MUD (10')
Time After Drilling	NA	Depth to Water	NA

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	DATE -	REVISED -

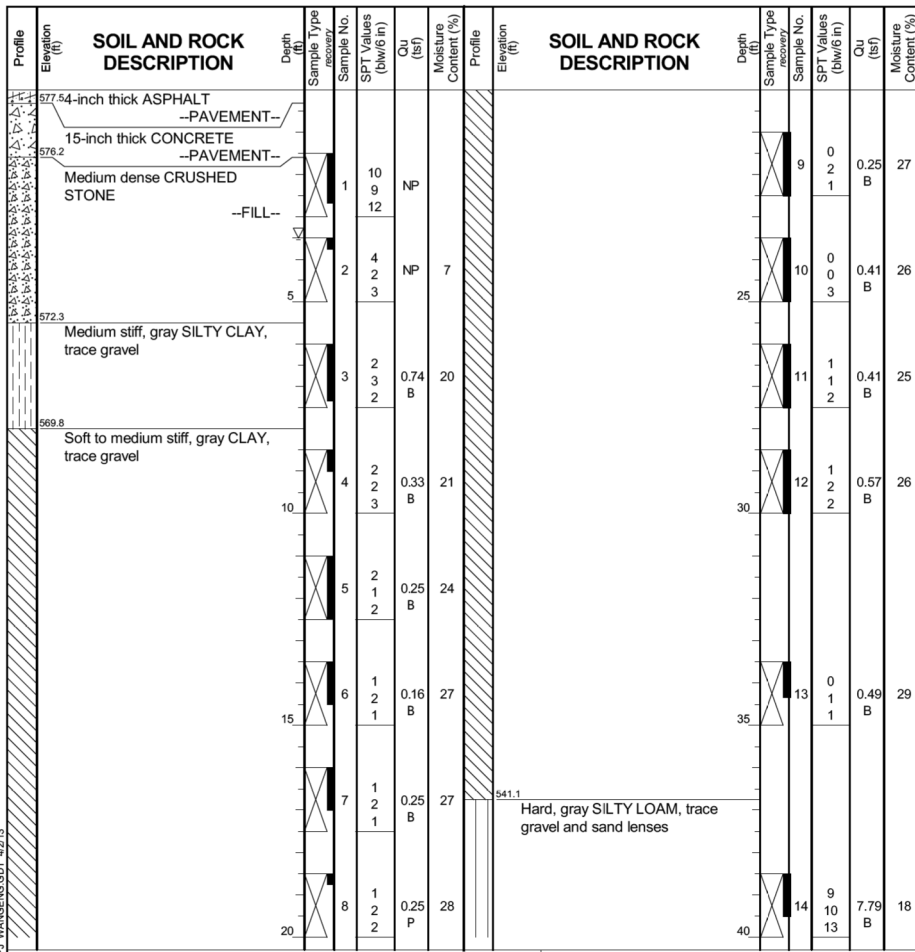
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOIL BORING**

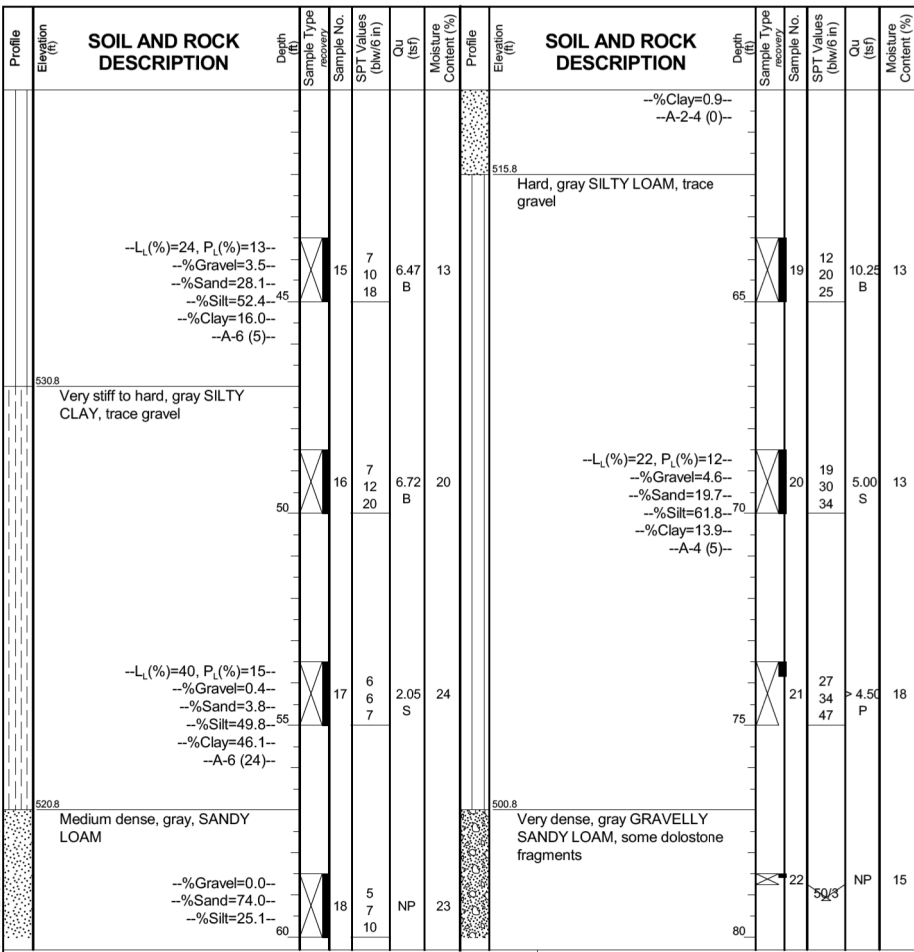
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F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

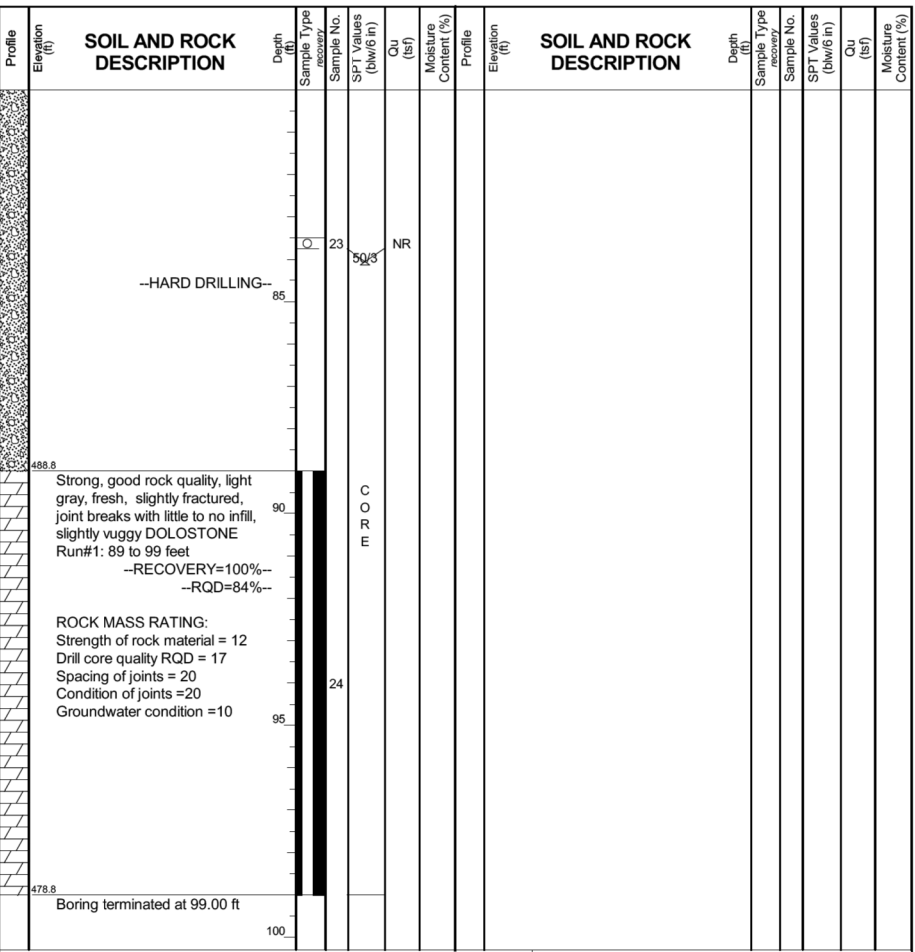




GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-14-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 20', Mud Rotary 20' thereafter
While Drilling	3.50 ft	At Completion of Drilling	MUD (20')
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-14-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 20', Mud Rotary 20' thereafter
While Drilling	3.50 ft	At Completion of Drilling	MUD (20')
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-14-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&J	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 20', Mud Rotary 20' thereafter
While Drilling	3.50 ft	At Completion of Drilling	MUD (20')
Time After Drilling	NA	Depth to Water	NA

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PLOT SCALE = 2:0.0000 '1' / in.	DRAWN -	REVISED -
PLOT DATE = 4/12/2013	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	19
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



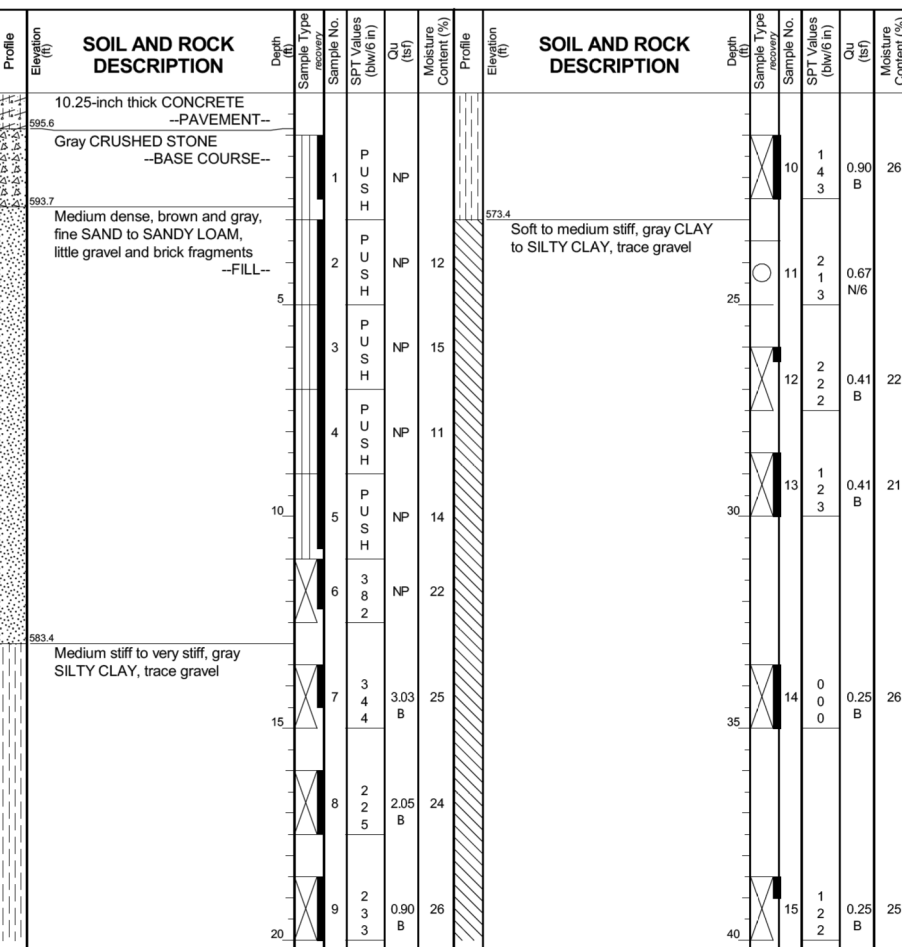
### BORING LOG 1087-B-03

Page 1 of 3

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 596.41 ft  
North: 1897526.93 ft  
East: 1171579.56 ft  
Station: 7811+18.84  
Offset: 5.33 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-21-2013	Complete Drilling	03-22-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	.1.0" IDA Geoprobe to 11', 2.25" SSA 11' to 20', Mud Rotary 20' thereafter
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA



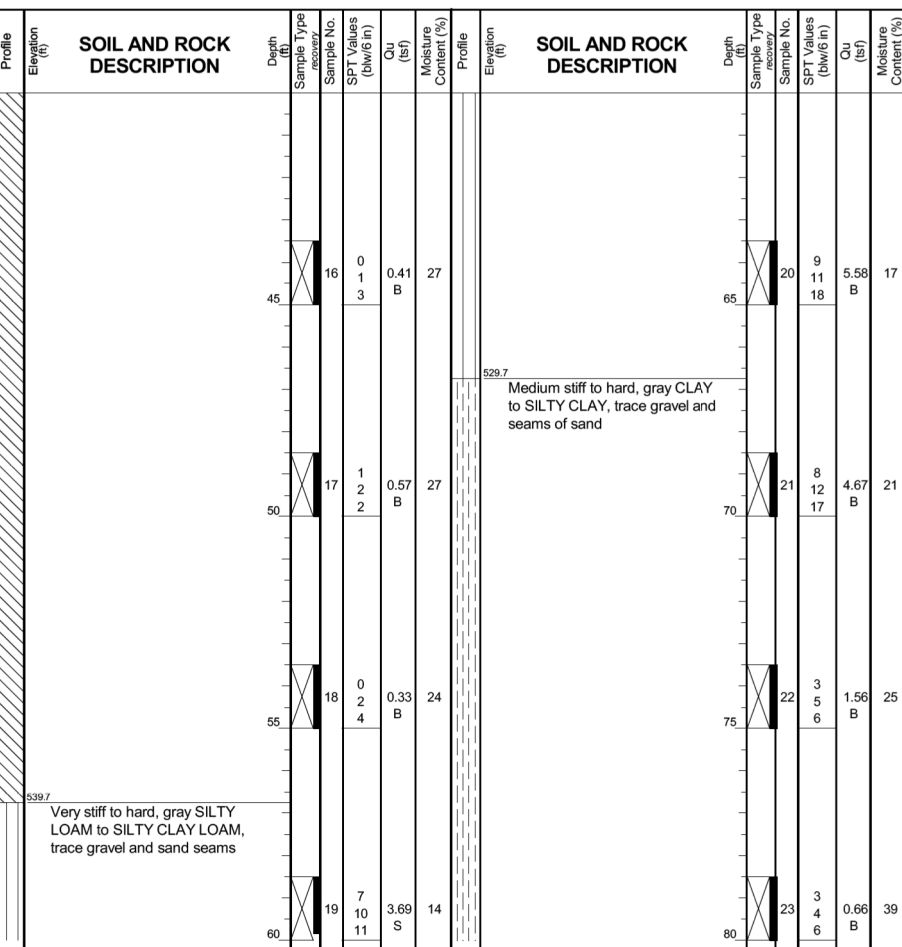
### BORING LOG 1087-B-03

Page 2 of 3

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 596.41 ft  
North: 1897526.93 ft  
East: 1171579.56 ft  
Station: 7811+18.84  
Offset: 5.33 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-21-2013	Complete Drilling	03-22-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	.1.0" IDA Geoprobe to 11', 2.25" SSA 11' to 20', Mud Rotary 20' thereafter
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA



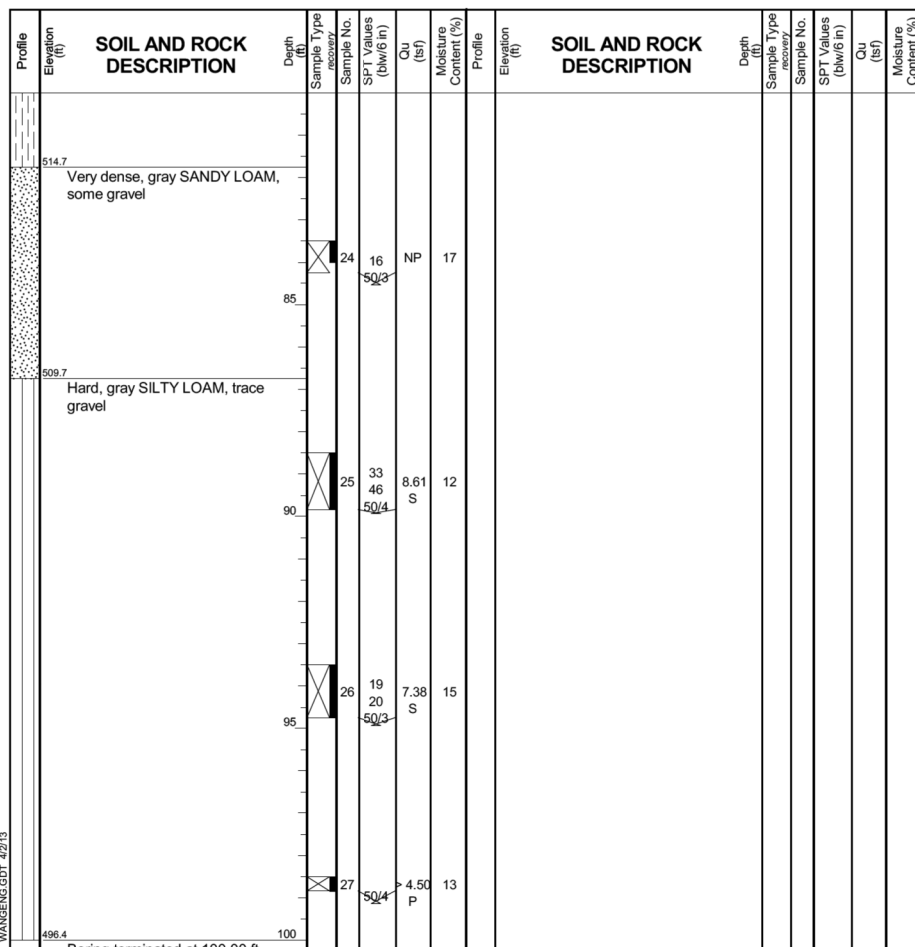
### BORING LOG 1087-B-03

Page 3 of 3

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 596.41 ft  
North: 1897526.93 ft  
East: 1171579.56 ft  
Station: 7811+18.84  
Offset: 5.33 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-21-2013	Complete Drilling	03-22-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	.1.0" IDA Geoprobe to 11', 2.25" SSA 11' to 20', Mud Rotary 20' thereafter
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA

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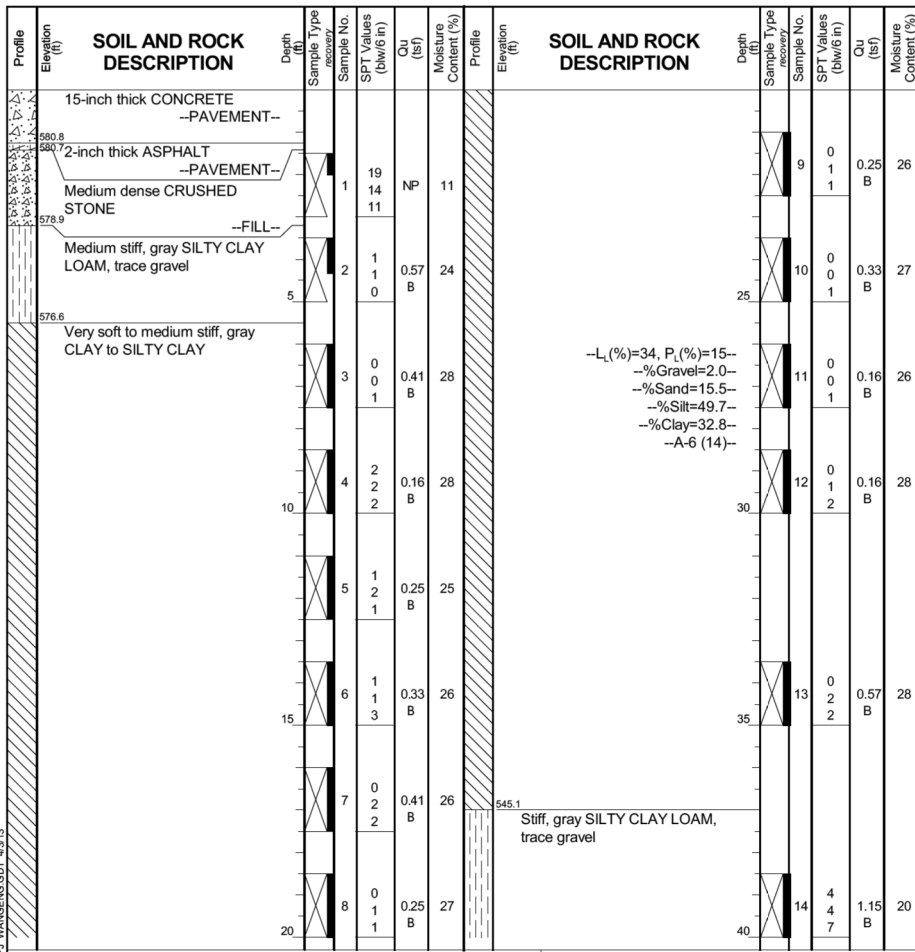


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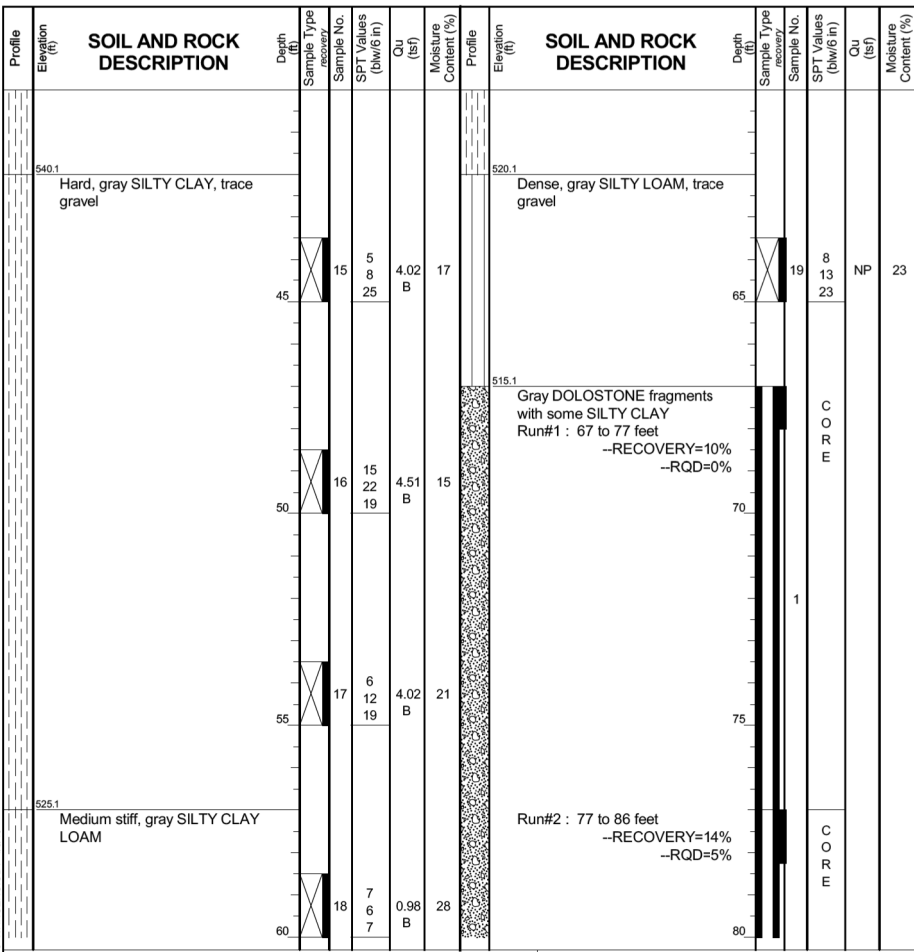
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING  
SCALE: SHEET NO. OF SHEETS STA. TO STA.

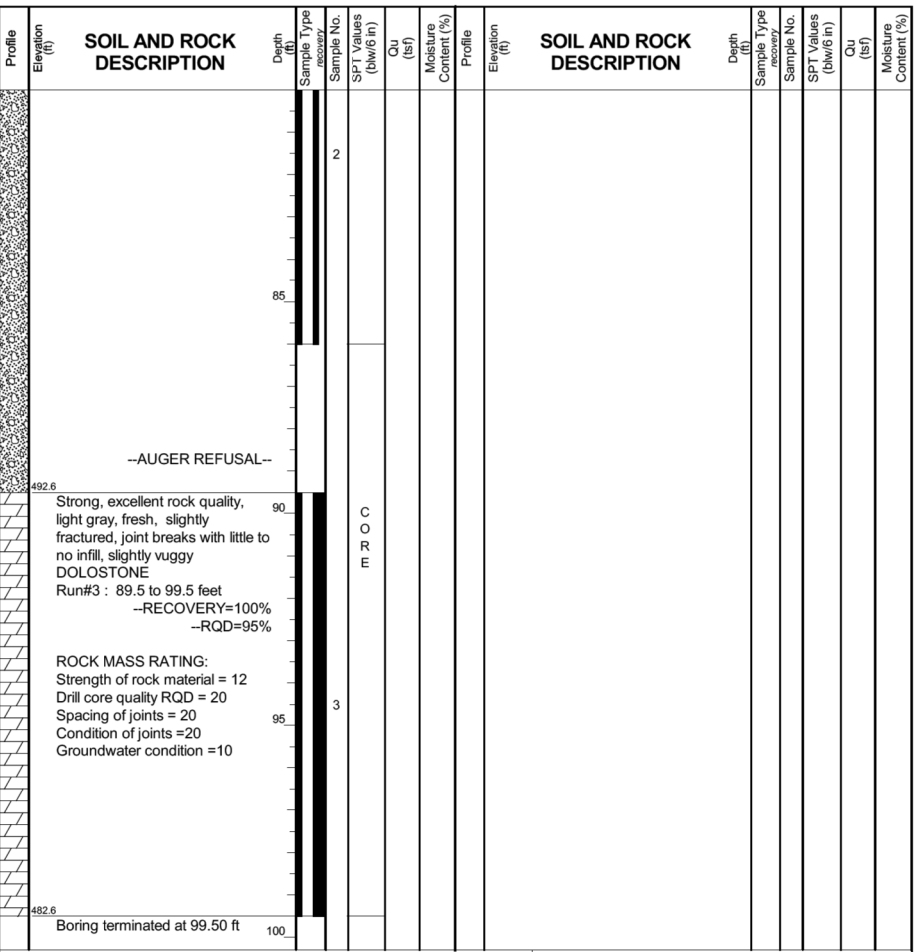
F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	20
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-07-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&N	Logger	A. Happel
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring...	Depth to Water	NA
backfilled upon completion		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-07-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&N	Logger	A. Happel
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring...	Depth to Water	NA
backfilled upon completion		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-06-2013	Complete Drilling	03-07-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&N	Logger	A. Happel
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring...	Depth to Water	NA
backfilled upon completion		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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**SOIL BORING**

F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	21
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



### BORING LOG 1088-B-03

Page 1 of 3

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 595.88 ft  
North: 1897606.49 ft  
East: 1171911.19 ft  
Station: 7814+13.37  
Offset: 50.01 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
595.1	10-inch thick, CONCRETE -PAVEMENT-- --DRILL WITHOUT SAMPLING FROM 0 to 51'--														
		5								25					
		10								30					
		15								35					
		20								40					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-16-2013	Complete Drilling	03-16-2013	While Drilling	DRY		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	MUD (15')		
Driller	P&N	Logger	F. Bozga	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' thereafter, boring backfilled upon completion	Depth to Water	NA		



### BORING LOG 1088-B-03

Page 2 of 3

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1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
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Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 595.88 ft  
North: 1897606.49 ft  
East: 1171911.19 ft  
Station: 7814+13.37  
Offset: 50.01 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
544.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel					0.41 B									
		26								45					
		27								50					
540.4	Soft to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel					0.41 B									
		18								65					
		19								70					
		19								75					
		19								80					
		19								85					
		14								90					
		13								95					
		12								100					
		12								105					
		18								110					
		17								115					
		16								120					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-16-2013	Complete Drilling	03-16-2013	While Drilling	DRY		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	MUD (15')		
Driller	P&N	Logger	F. Bozga	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' thereafter, boring backfilled upon completion	Depth to Water	NA		



### BORING LOG 1088-B-03

Page 3 of 3

wangeng@wangeng.com  
1145 N Main Street  
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Telephone: 630 953-9928  
Fax: 630 953-9938

Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 595.88 ft  
North: 1897606.49 ft  
East: 1171911.19 ft  
Station: 7814+13.37  
Offset: 50.01 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
595.4	Boring terminated at 100.50 ft														
		18								105					
		18								110					
		17								115					
		16								120					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	03-16-2013	Complete Drilling	03-16-2013	While Drilling	DRY		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	MUD (15')		
Driller	P&N	Logger	F. Bozga	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	2.25" SSA to 15', Mud Rotary 15' thereafter, boring backfilled upon completion	Depth to Water	NA		

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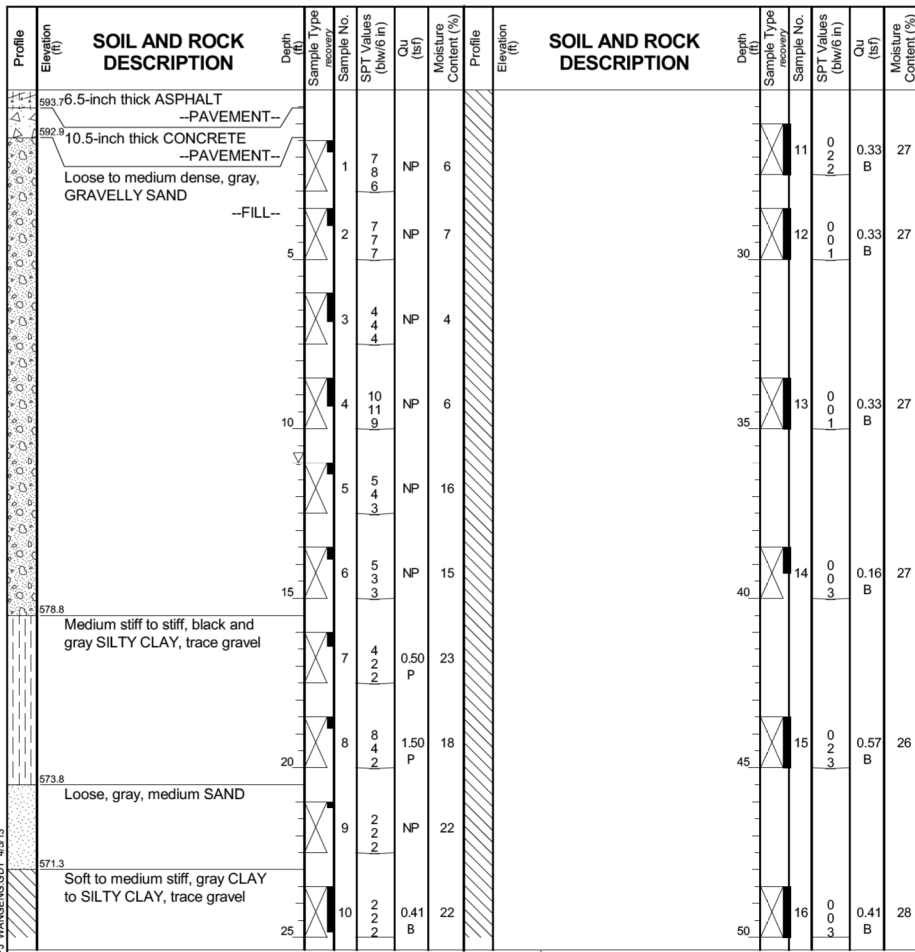
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DEPARTMENT OF TRANSPORTATION

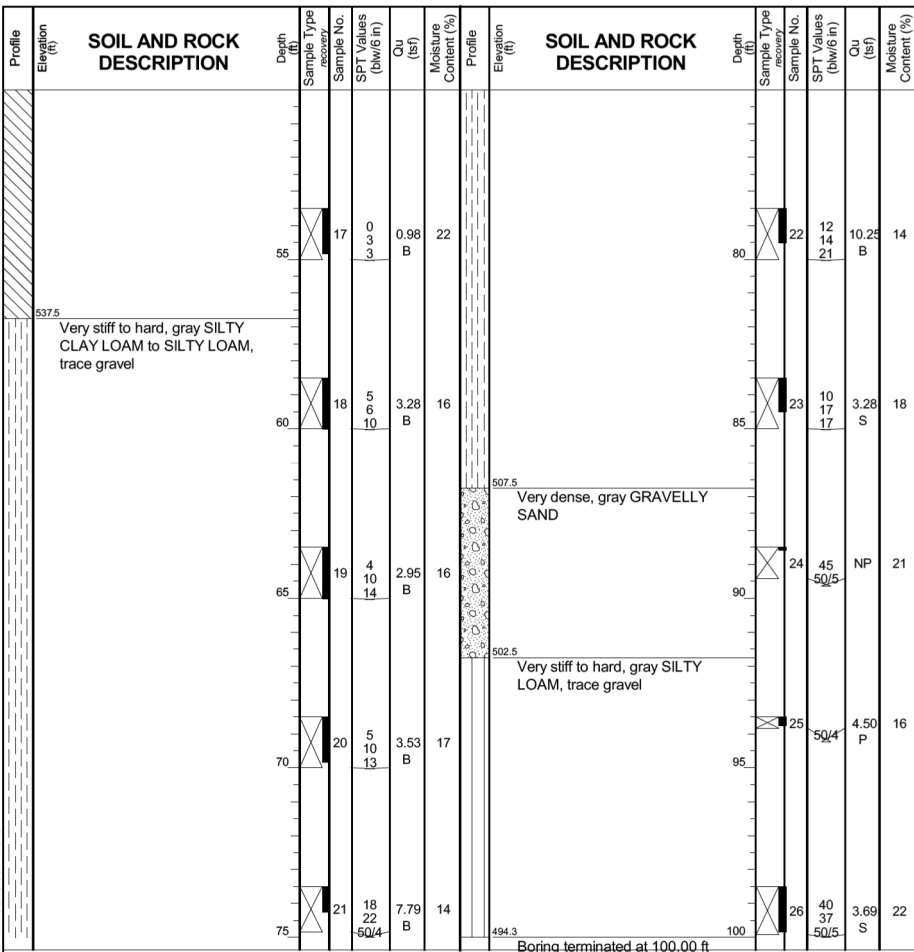
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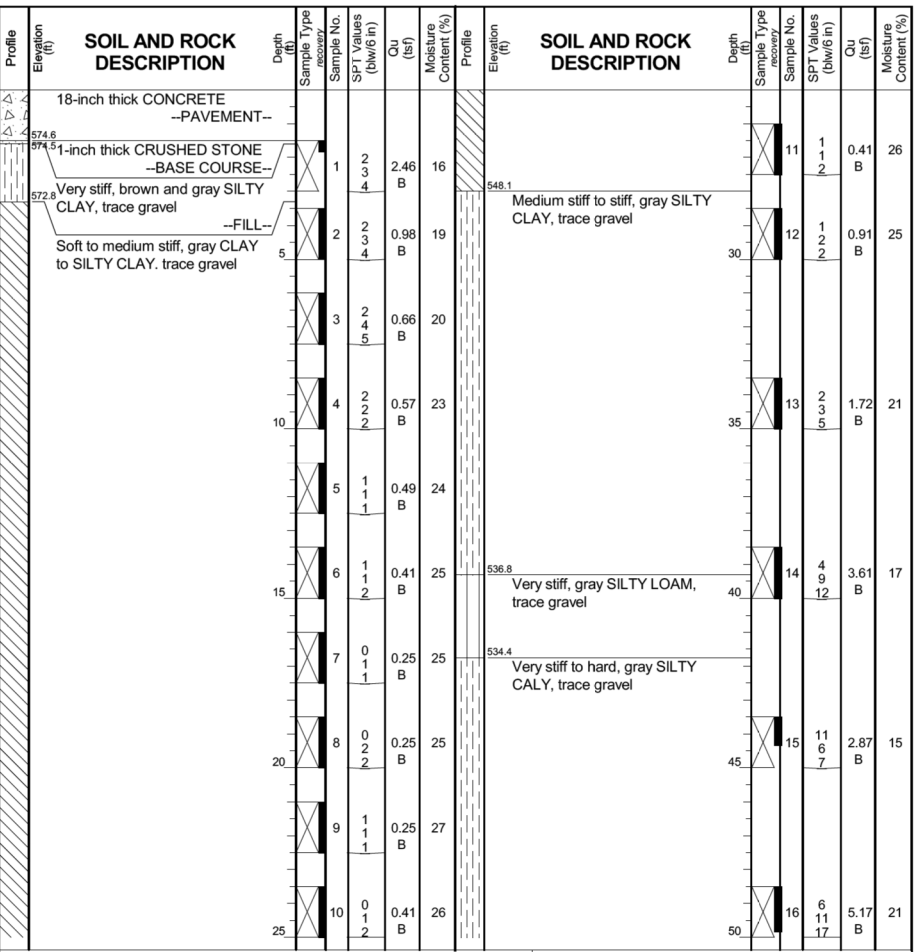
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CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-02-2013	Complete Drilling	04-02-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&T	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 11', Mud Rotary 11' thereafter, boring backfilled upon completion		
While Drilling	11.00 ft	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-02-2013	Complete Drilling	04-02-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	R&T	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 11', Mud Rotary 11' thereafter, boring backfilled upon completion		
While Drilling	11.00 ft	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-01-2013	Complete Drilling	04-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR
Driller	P&N	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion		
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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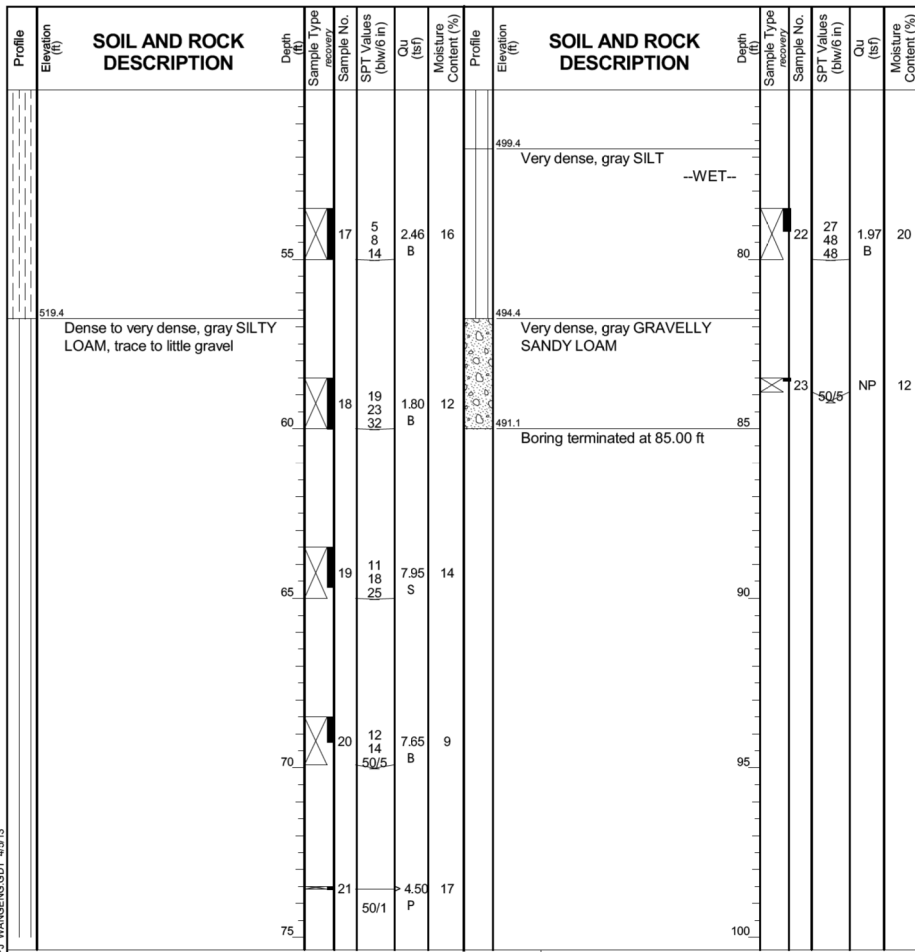


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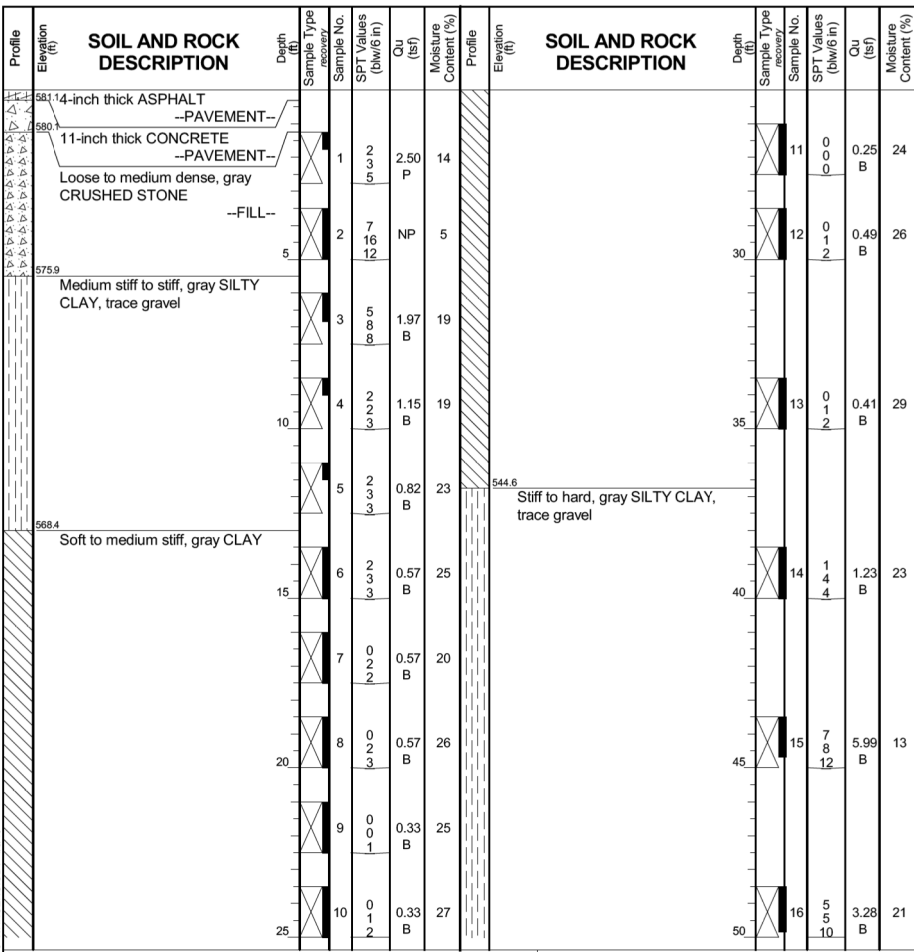
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 DEPARTMENT OF TRANSPORTATION

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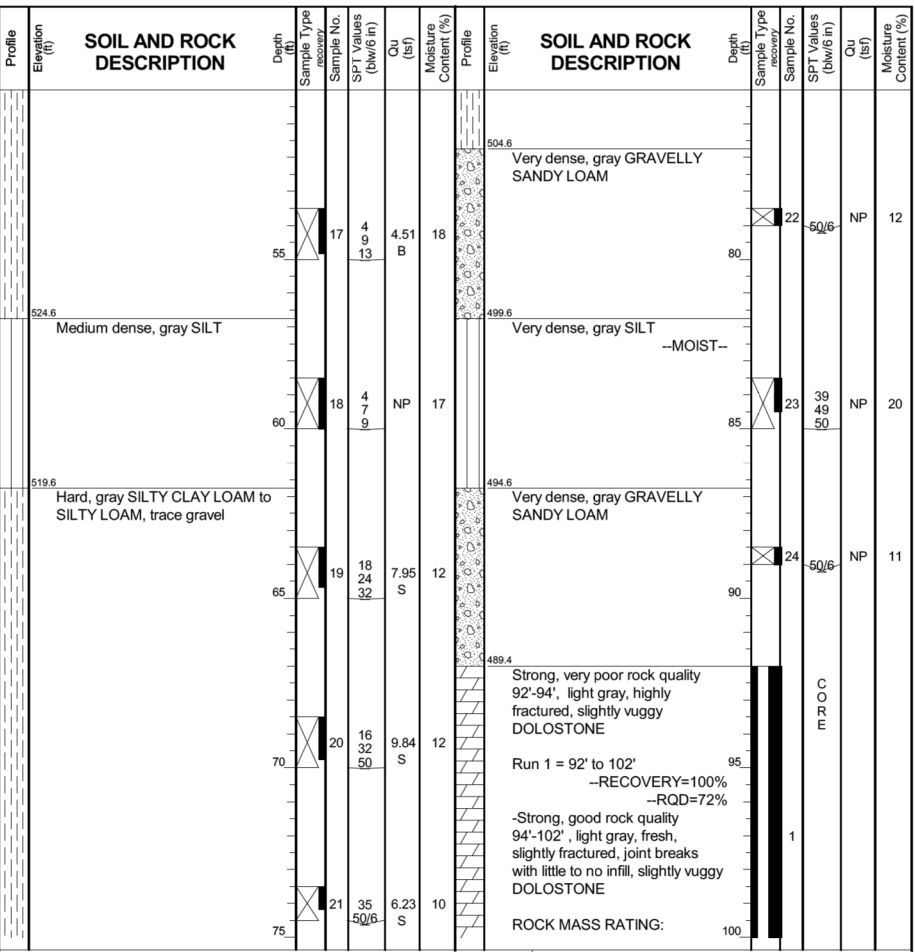
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90/94	0101.6-2P-1-3 (13)	COOK	37	23
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-01-2013	Complete Drilling	04-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR
Driller	P&N	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion		
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-28-2013	Complete Drilling	03-29-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	P&	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 8.5', Mud Rotary 8.5' thereafter, boring backfilled upon completion		
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-28-2013	Complete Drilling	03-29-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	P&	Logger	D. Wind
Checked by	C. Marin		
Drilling Method	3.25" HSA to 8.5', Mud Rotary 8.5' thereafter, boring backfilled upon completion		
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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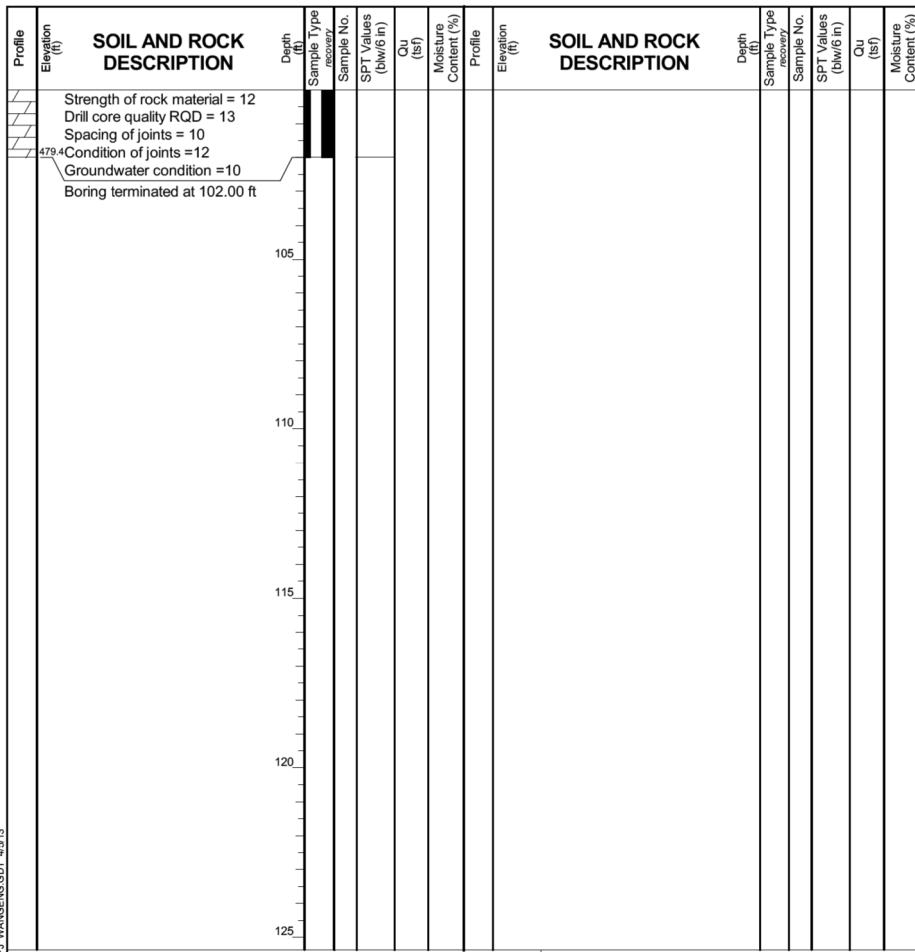


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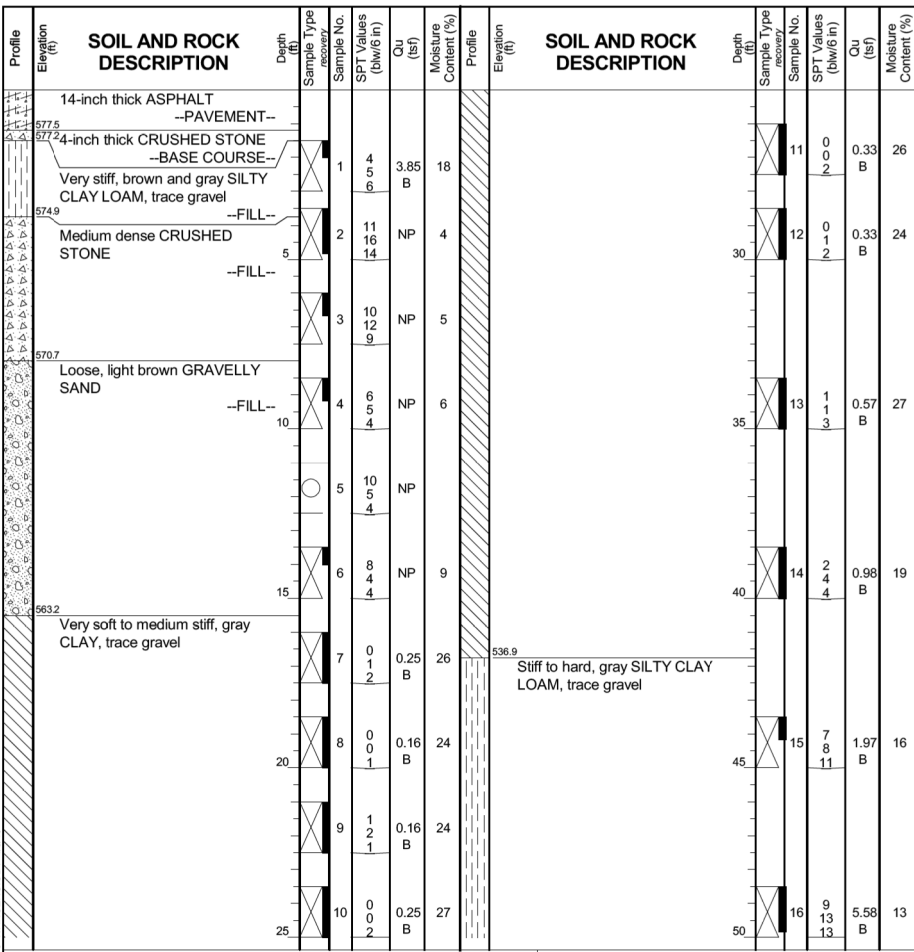
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 DEPARTMENT OF TRANSPORTATION

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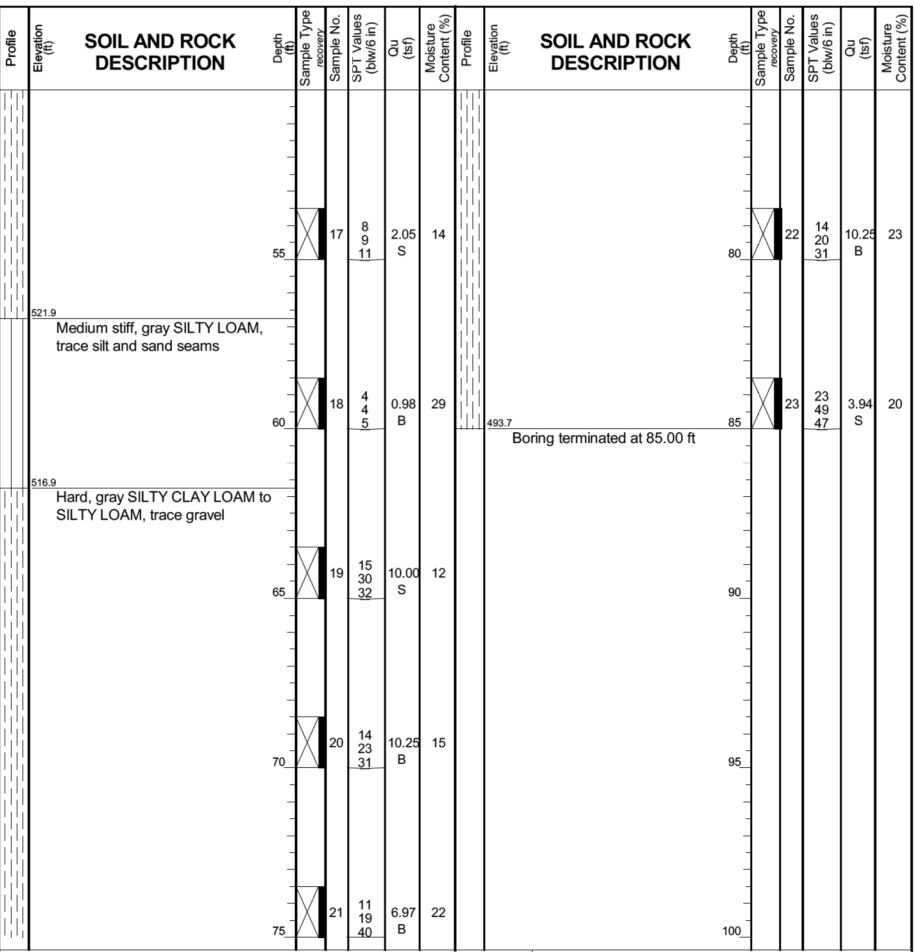
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90/94	0101.6-2P-1-3 (13)	COOK	37	24
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-28-2013	Complete Drilling	03-29-2013
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR
Driller	P& D. Wind	Checked by	C. Marin
Drilling Method	3.25" HSA to 8.5', Mud Rotary 8.5' thereafter, boring backfilled upon completion		
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-01-2013	Complete Drilling	04-01-2013
Drilling Contractor	Wang	Drill Rig	D-50 TMR
Driller	R&N	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter
While Drilling	DRY	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-01-2013	Complete Drilling	04-01-2013
Drilling Contractor	Wang	Drill Rig	D-50 TMR
Driller	R&N	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter
While Drilling	DRY	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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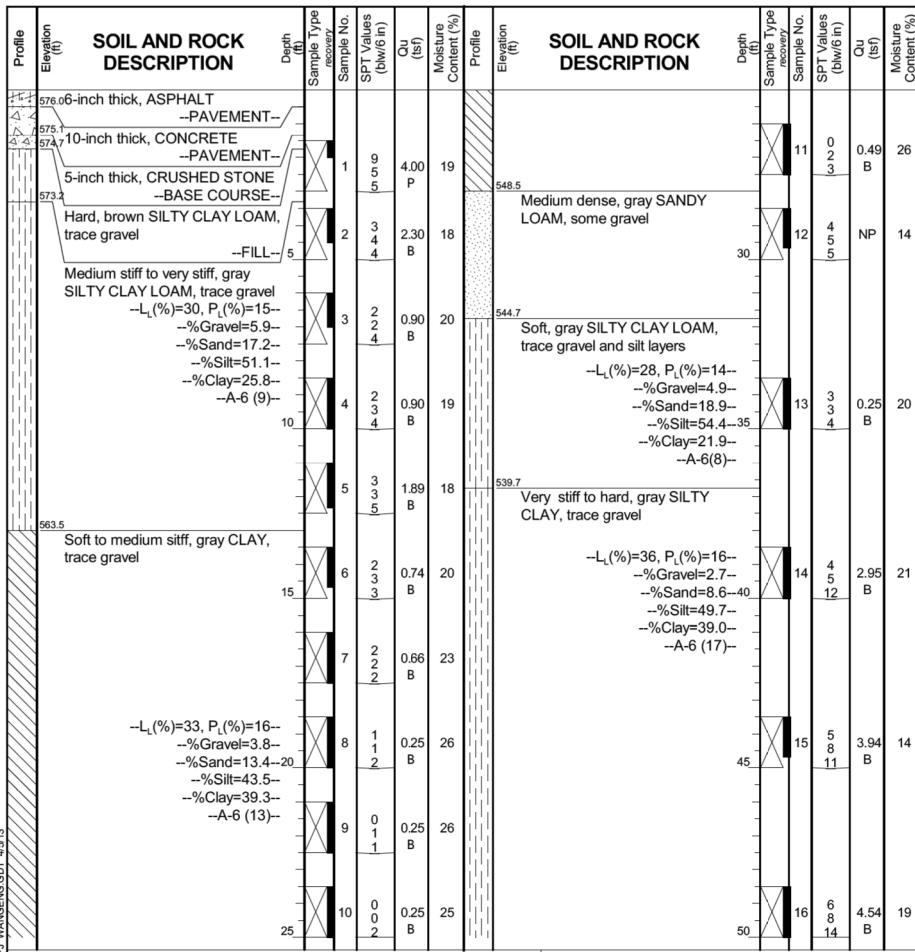
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

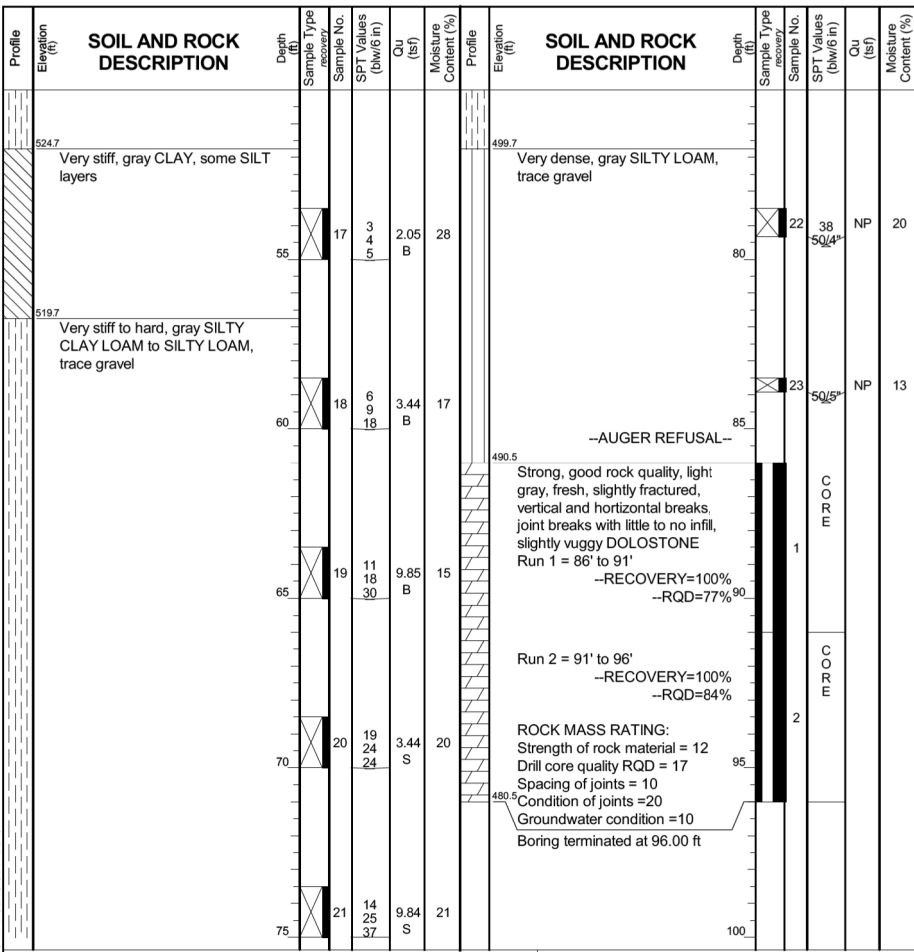
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F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	25
CONTRACT NO. 60W36			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

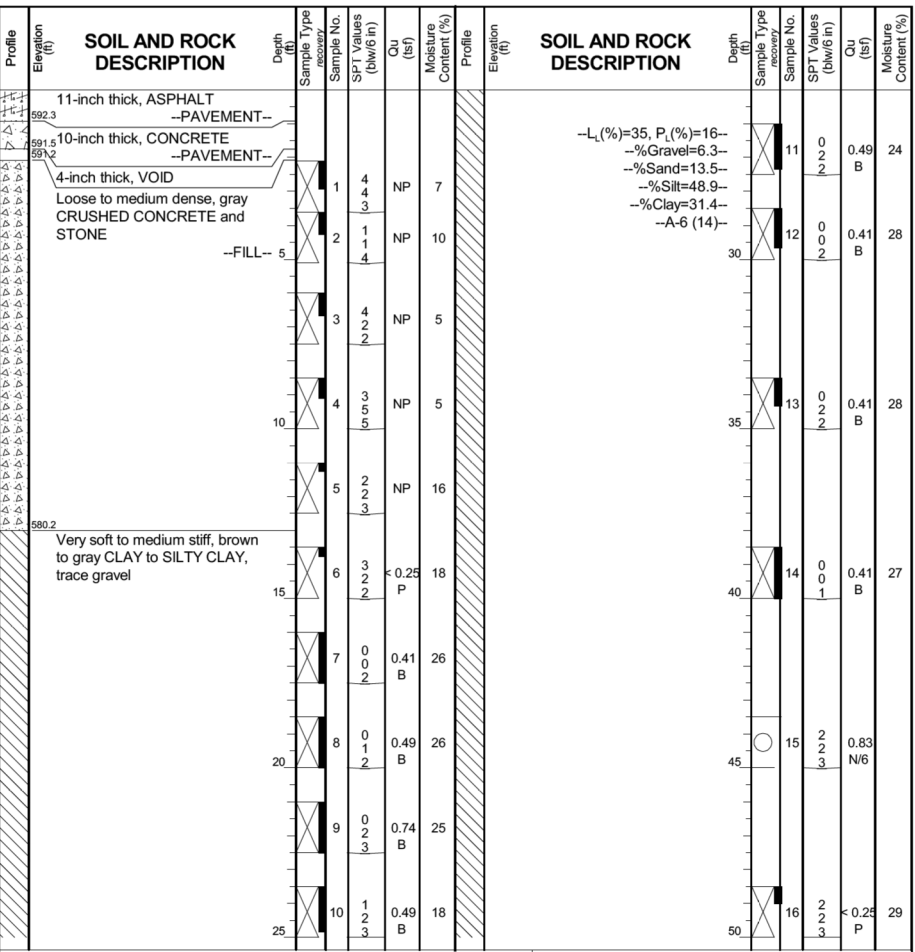




GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-26-2013	Complete Drilling	03-26-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-26-2013	Complete Drilling	03-26-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	D. Kolpacki
Checked by	C. Marin	Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion
While Drilling	DRY	At Completion of Drilling	DRY
Time After Drilling	NA	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-16-2013	Complete Drilling	03-16-2013
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR
Driller	R&T	Logger	A. Mohammed
Checked by	C. Marin	Drilling Method	2.25" SSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion
While Drilling	NA	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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PLOT DATE = 4/12/2013	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SCALE:</b>		<b>SHEET NO. OF SHEETS</b>		<b>STA. TO STA.</b>	
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F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	26
CONTRACT NO. 60W36				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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### BORING LOG 2081-B-06

WEI Job No.: 1100-04-01

Client: **AECOM**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 593.23 ft  
North: 1897774.57 ft  
East: 1171111.06 ft  
Station: 3833+33.31  
Offset: 17.30 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
541.5	Very stiff, gray SILTY CLAY LOAM, trace gravel	55	17	6 6 8	2.33 N6		511.5	Very dense, gray GRAVELLY SAND	80	22	4 5 4	0.25 P	37
	-L <sub>c</sub> (%)=28, P <sub>c</sub> (%)=18-- --%Gravel=0.6-- --%Sand=4.2--60 --%Silt=72.7-- --%Clay=22.6-- --A-4(8)--		18	12 13 12	3.03 S	21			85	23	25 50/5	NP	11
		65	19	5 7 13	3.28 B	22			90	24	50/5	NP	15
		70	20	4 7 8	2.46 B	24				25	60/6	NP	15
521.5	Soft to stiff, gray CLAY, trace gravel	75	21	4 4 5	1.31 B	29	501.7	Very dense, gray SILT LOAM, little gravel					
	-L <sub>c</sub> (%)=42, P <sub>c</sub> (%)=18-- --%Gravel=2.4-- --%Sand=3.3-- --%Silt=44.8--75									26	50/3	NP	11
							493.2		100				
Boring terminated at 100.00 ft													
<b>GENERAL NOTES</b>							<b>WATER LEVEL DATA</b>						
Begin Drilling 03-16-2013 Complete Drilling 03-16-2013							While Drilling <input checked="" type="checkbox"/> NA						
Drilling Contractor Wang Testing Services Drill Rig D-50 TMR							At Completion of Drilling <input checked="" type="checkbox"/> NA						
Driller R&T Logger A. Mohammed Checked by C. Marin							Time After Drilling NA						
Drilling Method 2.25" SSA to 10', Mud Rotary 10' thereafter, boring backfilled upon completion							Depth to Water <input checked="" type="checkbox"/> NA						
<small>The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.</small>													

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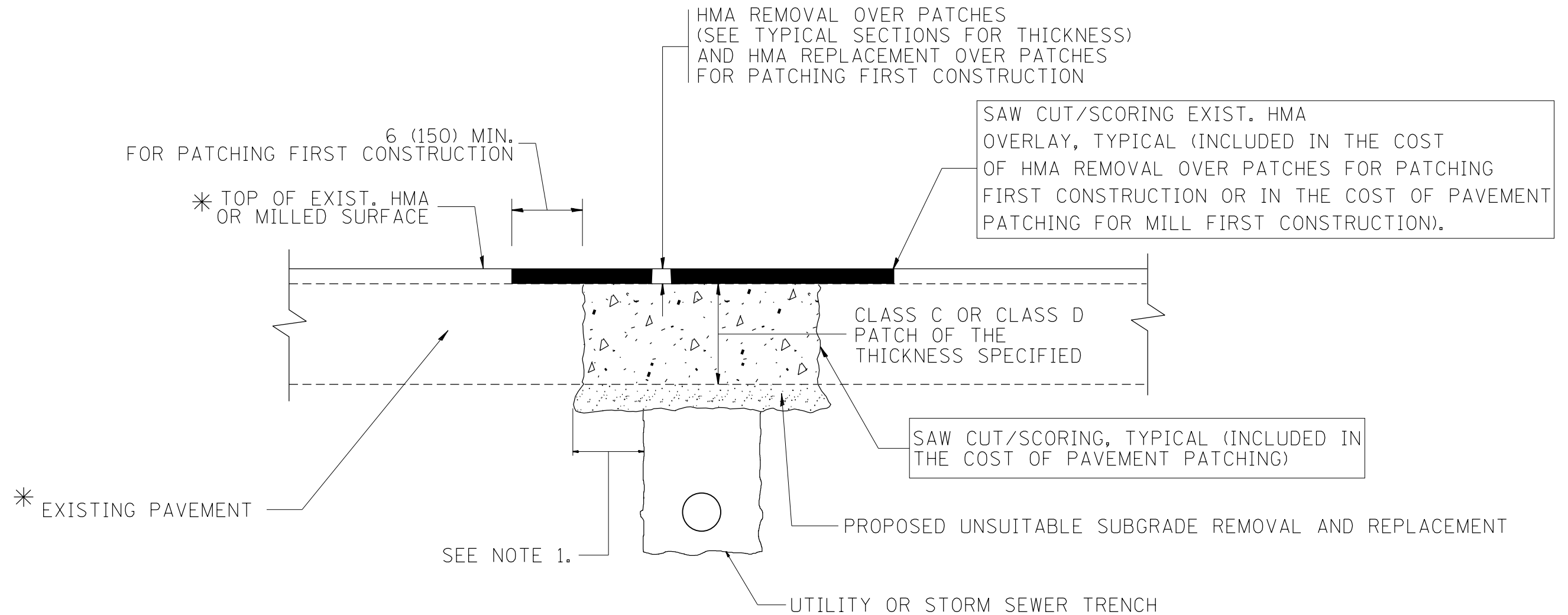
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	27
CONTRACT NO. 60W36				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

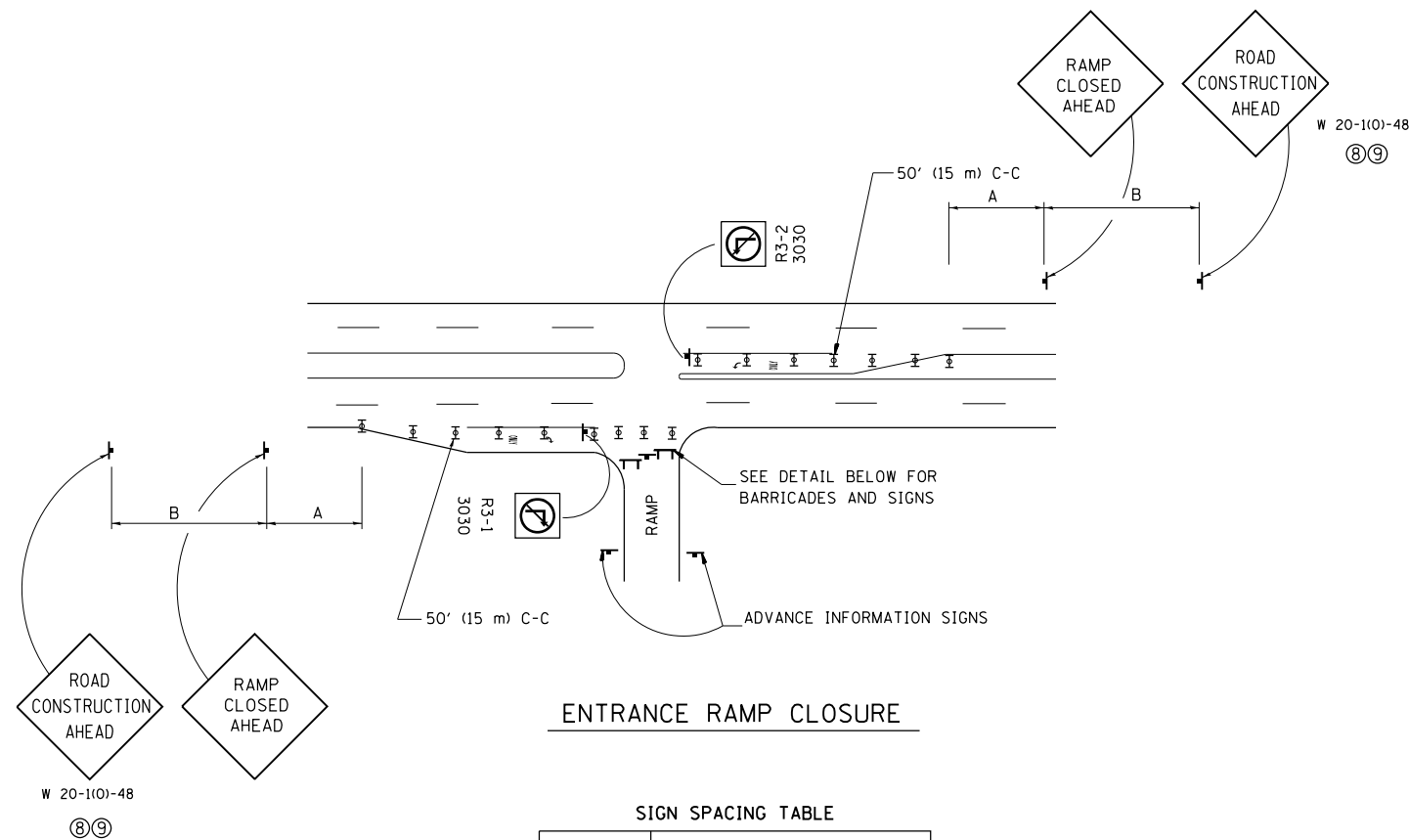
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = rge11	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	90/94	0101.6-2P-1-3 (13)	COOK	37 28
		PLOT SCALE = 100.000' / in.	REVISED - R. BORO 09-04-07							<b>BD400-04 (BD-22) CONTRACT NO. 60W36</b>			
		PLOT DATE = 4/12/2013	REVISED - K. ENG 10-27-08							<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>			

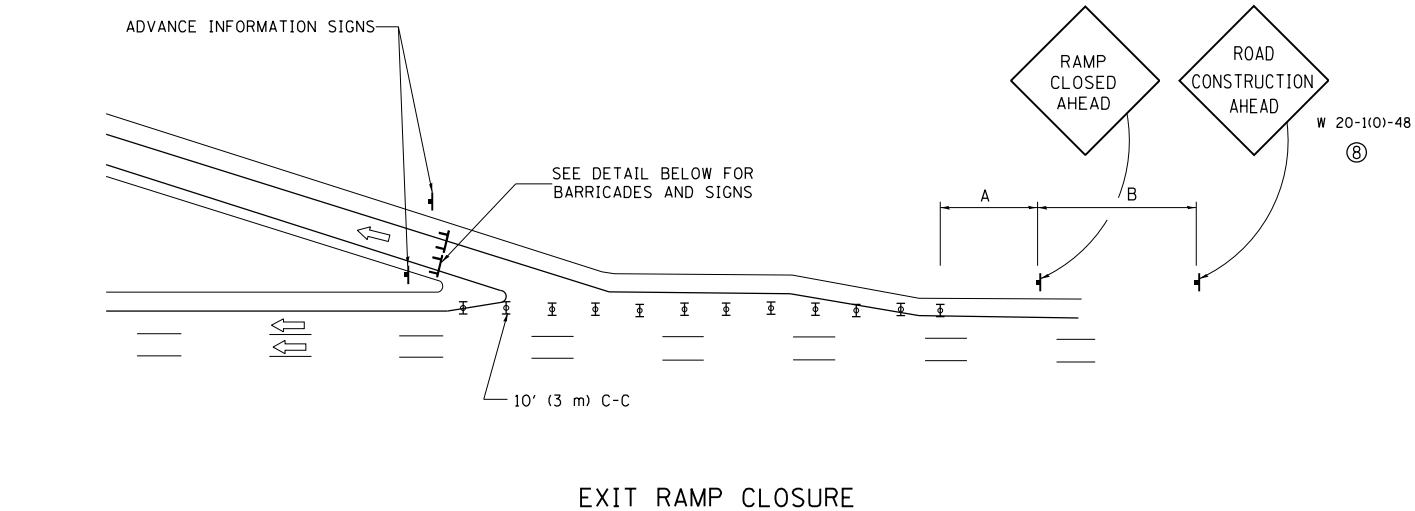


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

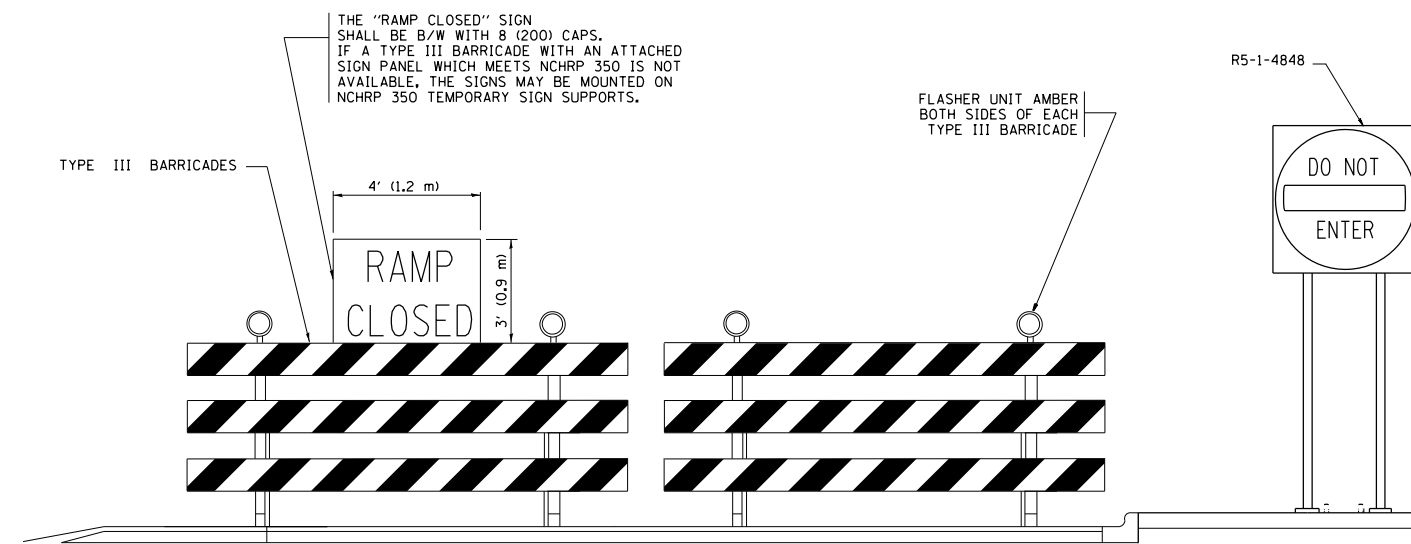
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

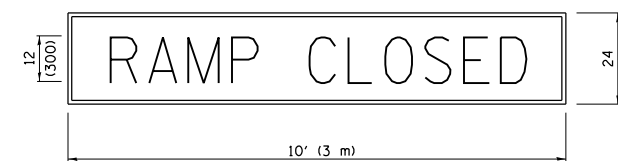
**SYMBOLS**

- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH FLASHING LIGHT



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

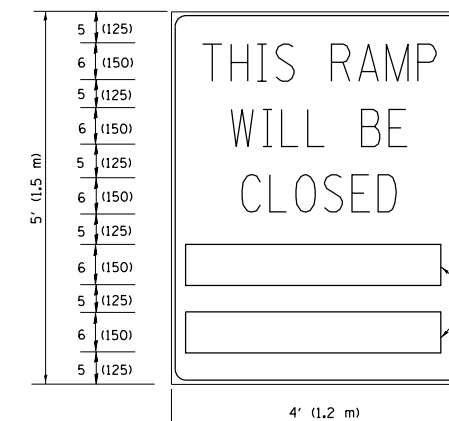
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

1/2 (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

FILE NAME =	USER NAME = rge11	DESIGNED - DWS	REVISED - DWS/JAF 12-02
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 4/12/2013	DATE - 02-83	REVISED - SPB 12-09

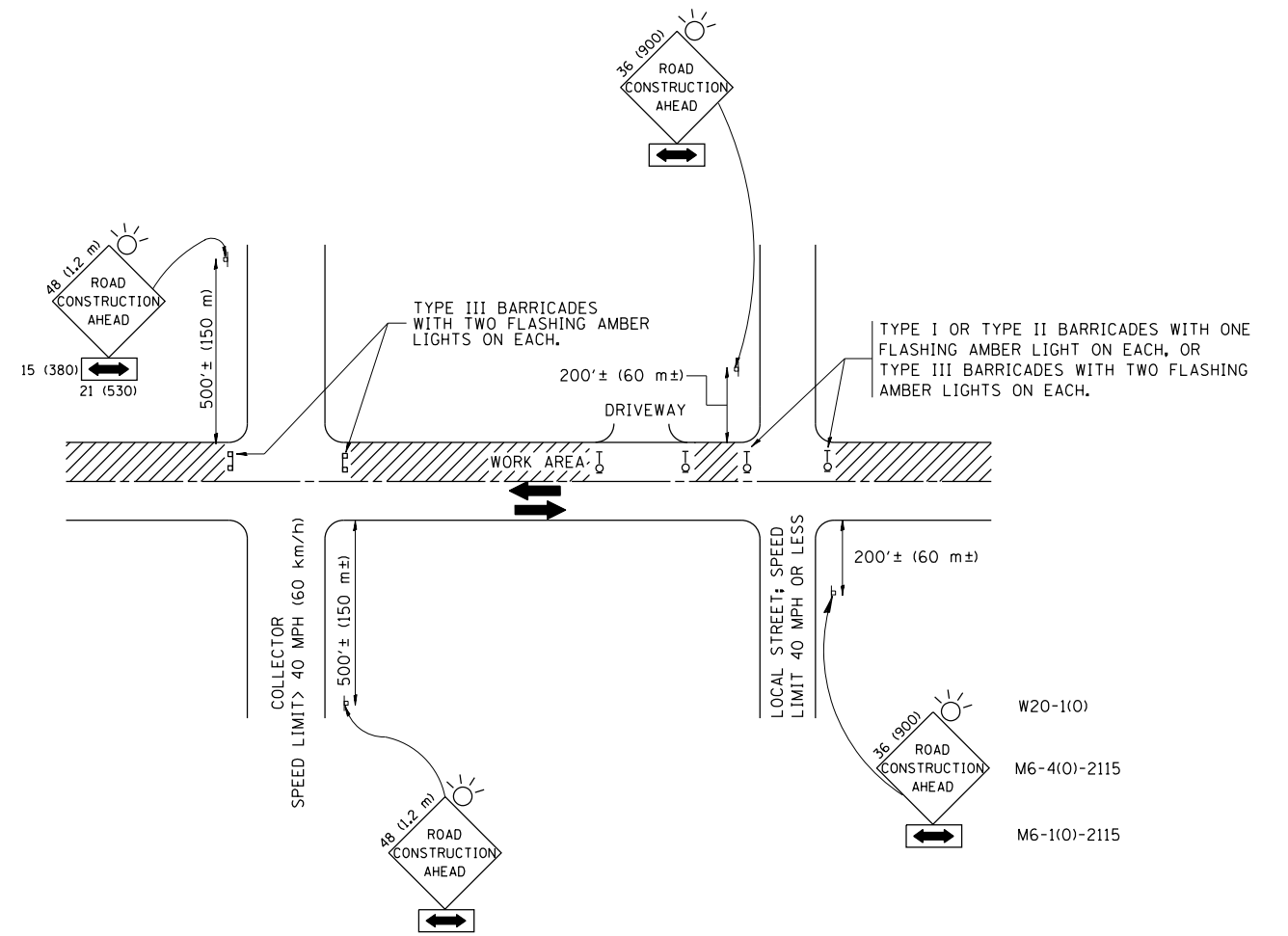
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FREEWAY ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	29
TC-08		CONTRACT NO. 60W36		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

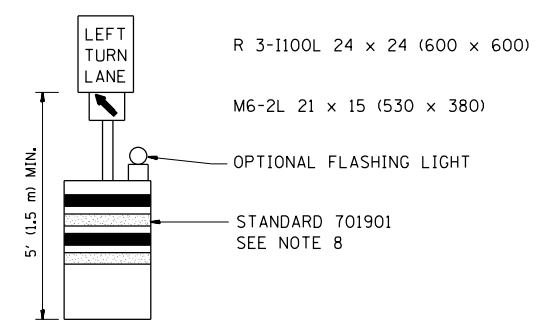
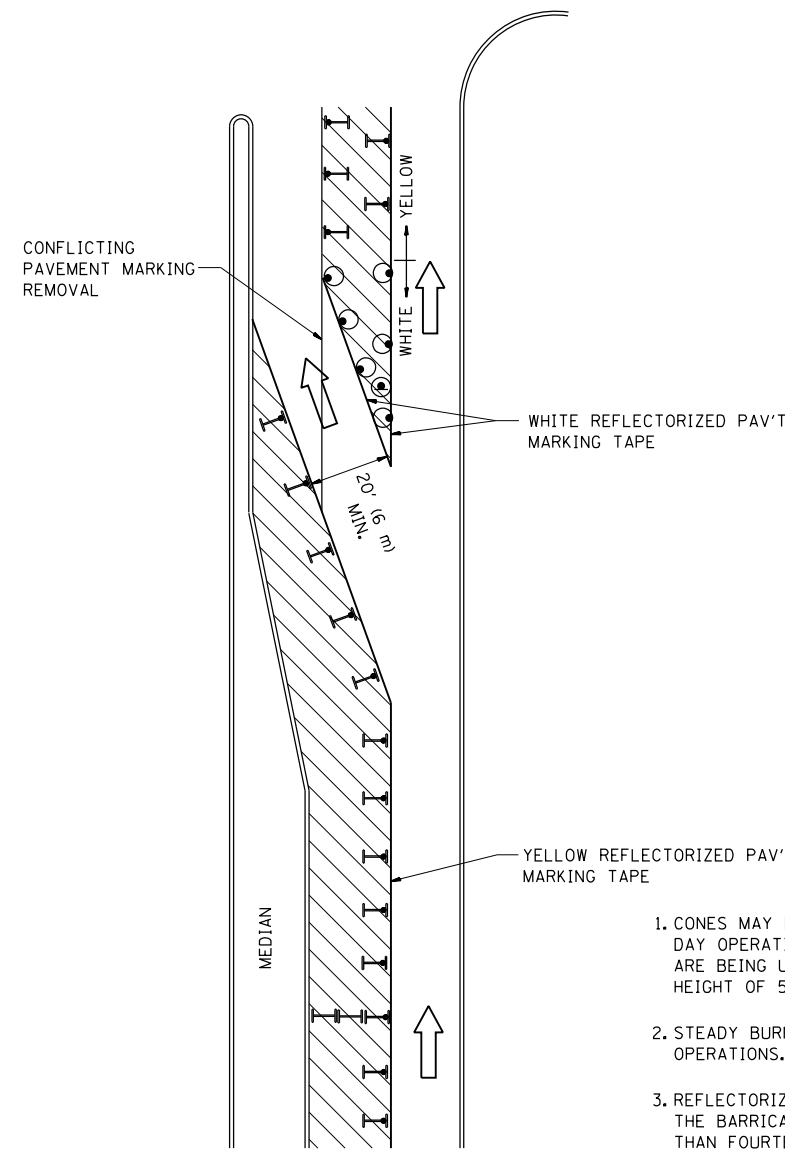
FILE NAME =	USER NAME = r9e11	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 4/12/2013	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	31
TC-10			CONTRACT NO. 60W36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

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

FILE NAME =	USER NAME = rge11	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 99.9998' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 4/12/2013	REVISED -T. RAMMACHER 01-06-00	REVISED -

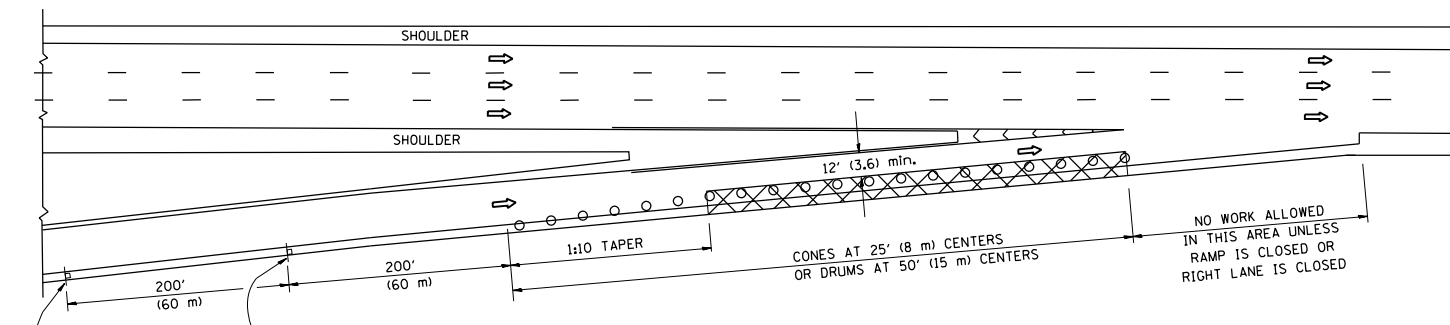
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

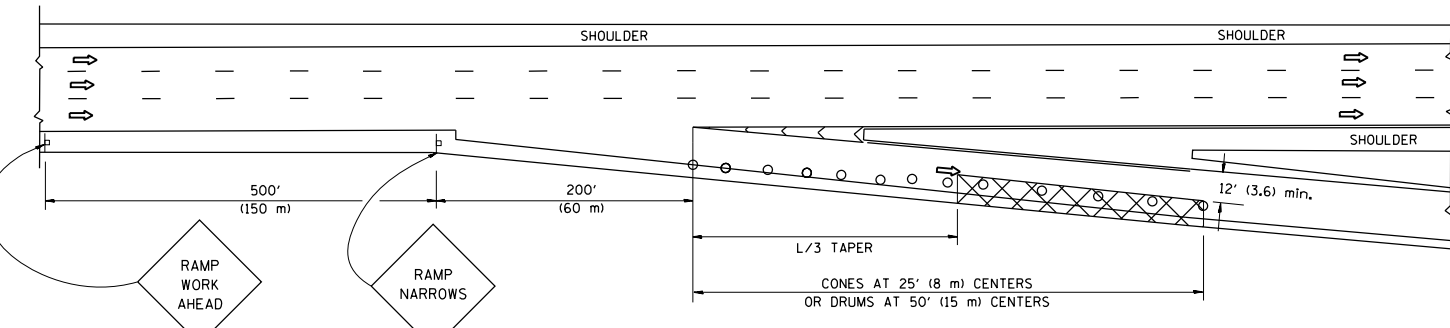
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	32
TC-14		CONTRACT NO. 60W36		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



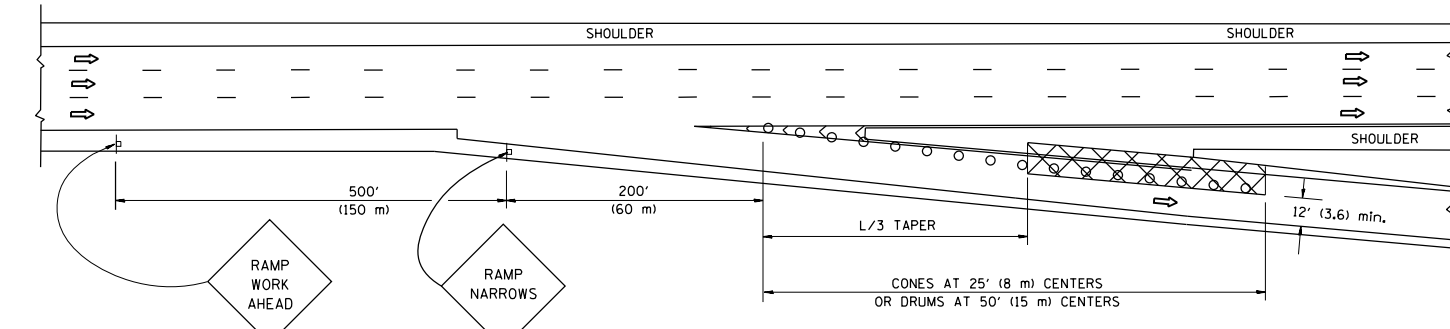
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

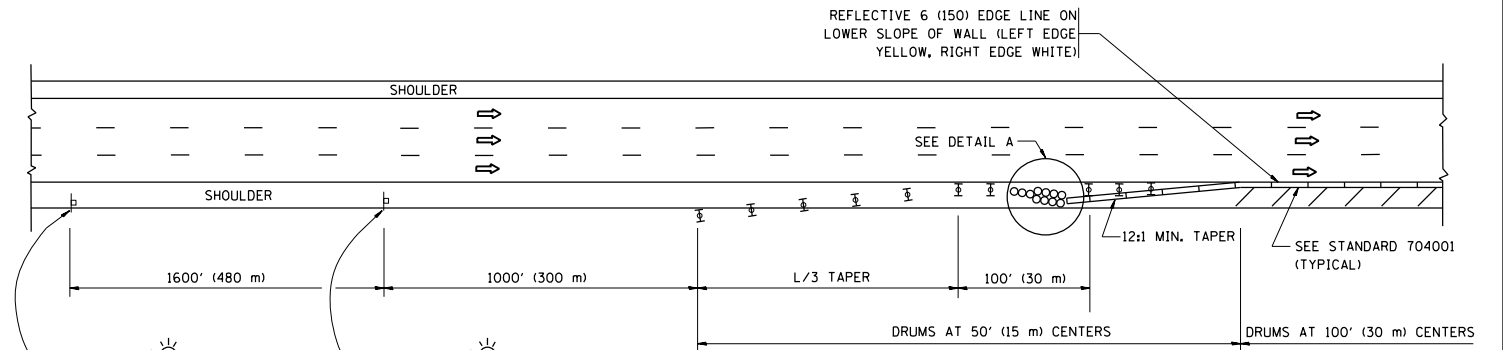
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

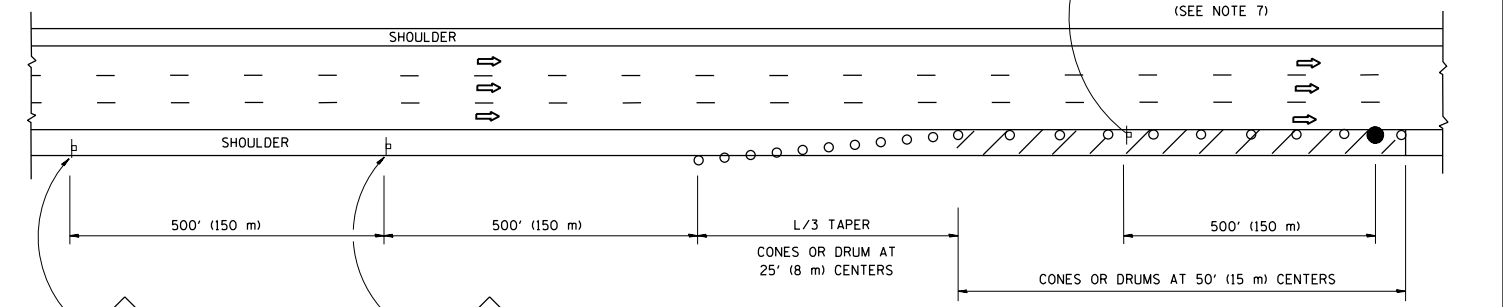
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)  
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

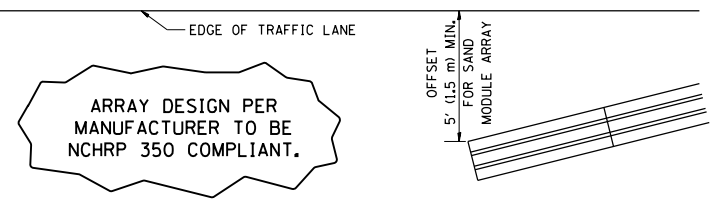


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

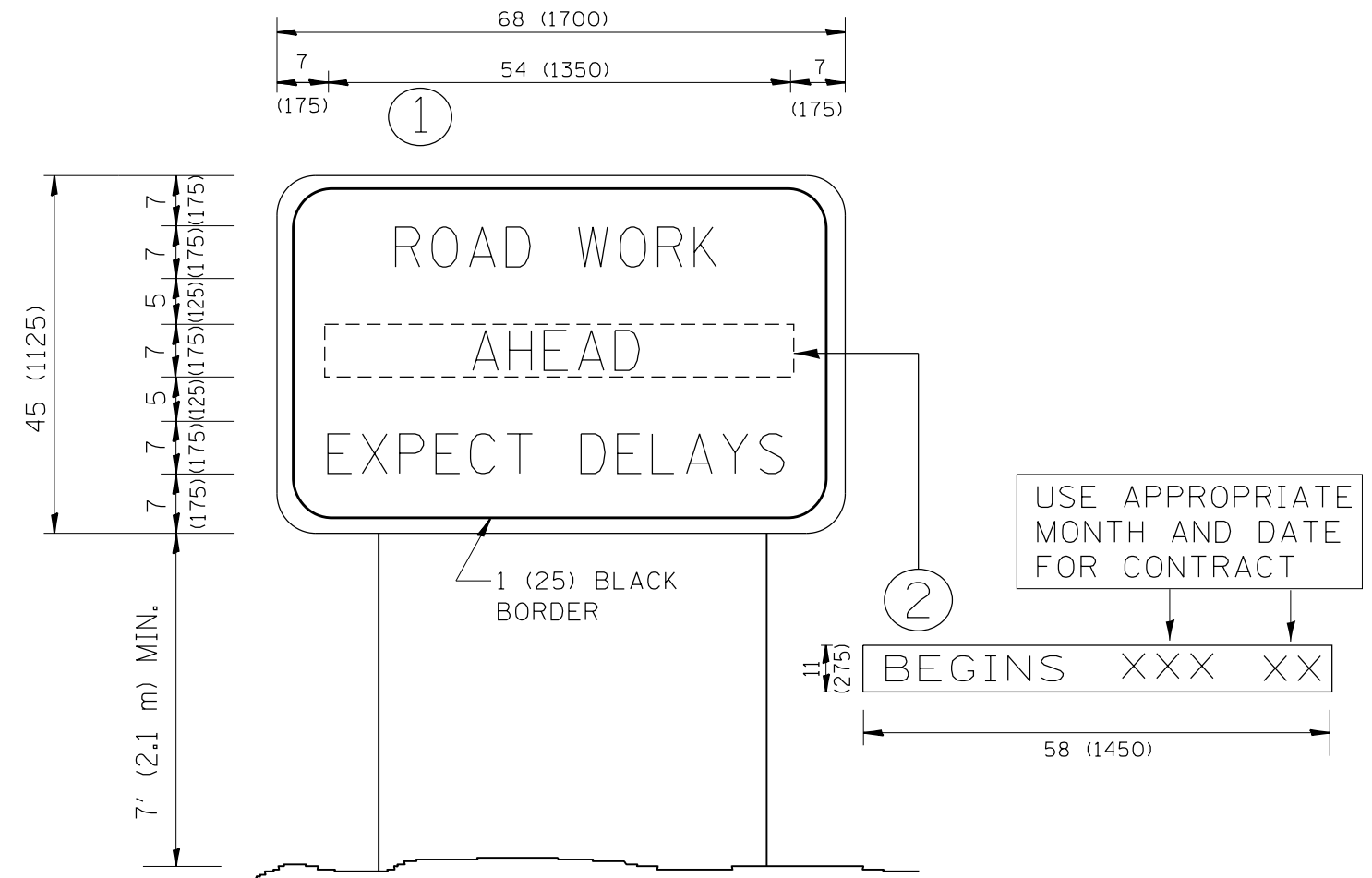
THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

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

FILE NAME =	USER NAME = r9e11	DESIGNED -	REVISED - 04-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06			90/94	0101.6-2P-1-3 (13)	COOK	37	33	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - S.P.B. 01-07			<b>TC-17</b>		<b>CONTRACT NO. 60W36</b>			
	PLOT DATE = 4/12/2013	DATE - 11-96	REVISED - S.P.B. 12-09			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

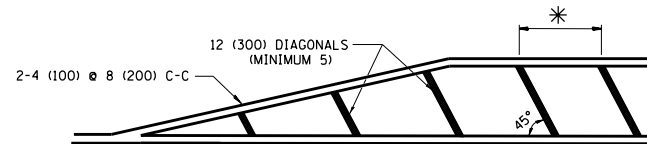
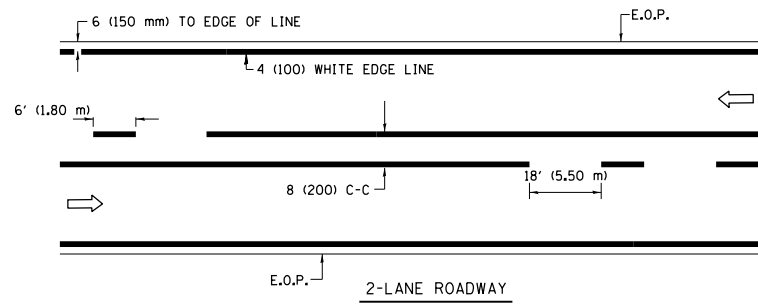


**NOTES:**

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

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

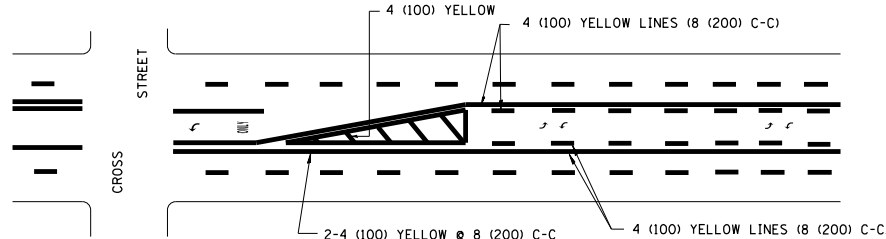
FILE NAME =	USER NAME = rge11	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. MIRS 12-11-97			90/94	0101.6-2P-1-3 (13)	COOK	37	34	
		CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		<b>CONTRACT NO. 60W36</b>			
		DATE -	REVISED - C. JUCIUS 01-31-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT	



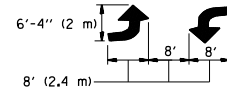
\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

\* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

**PAINTED MEDIANS**

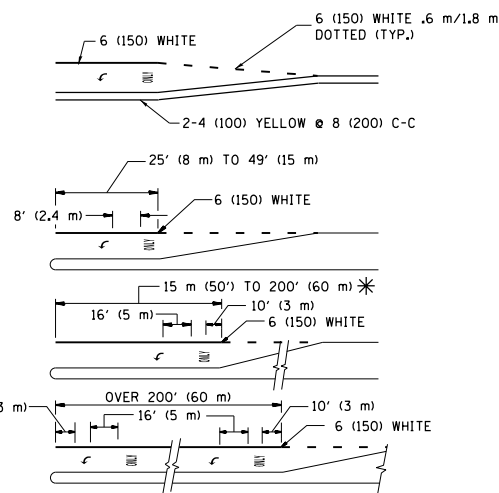


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

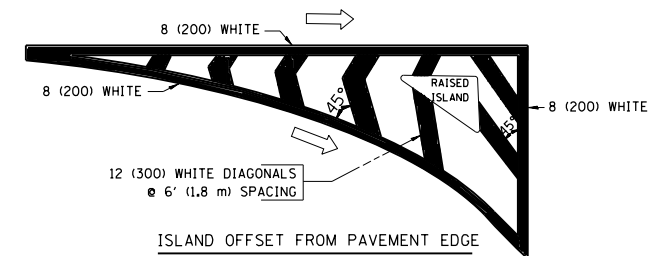


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) ONLY AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)

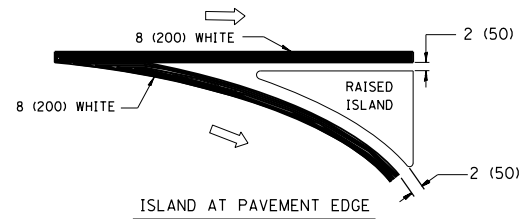
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**



**ISLAND OFFSET FROM PAVEMENT EDGE**

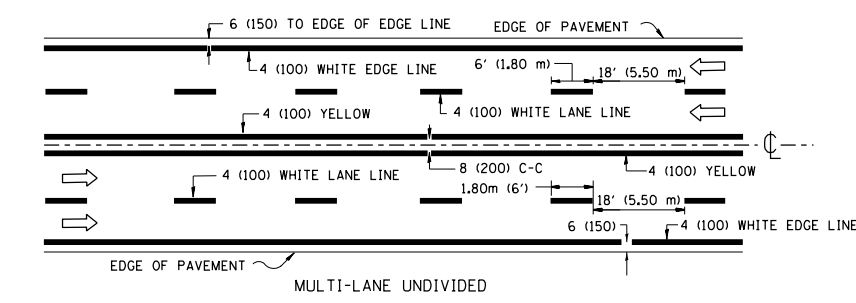


**TYPICAL ISLAND MARKING**

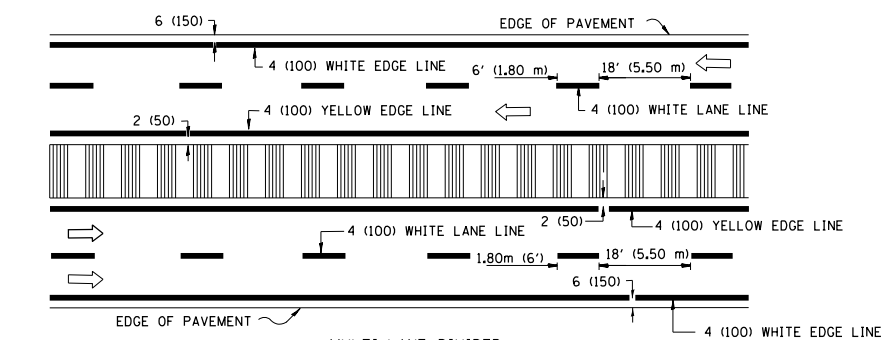
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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



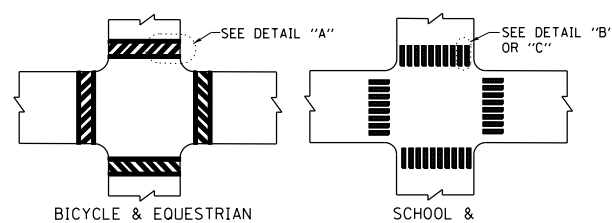
**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN**

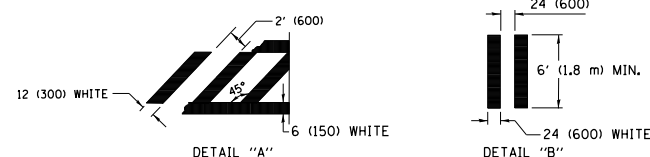
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**

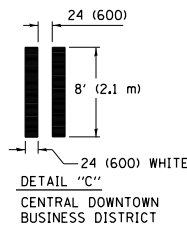


**BICYCLE & EQUESTRIAN**

**SCHOOL & PEDESTRIAN**



**TYPICAL CROSSWALK MARKING**



**DETAIL "B" CENTRAL DOWNTOWN BUSINESS DISTRICT**

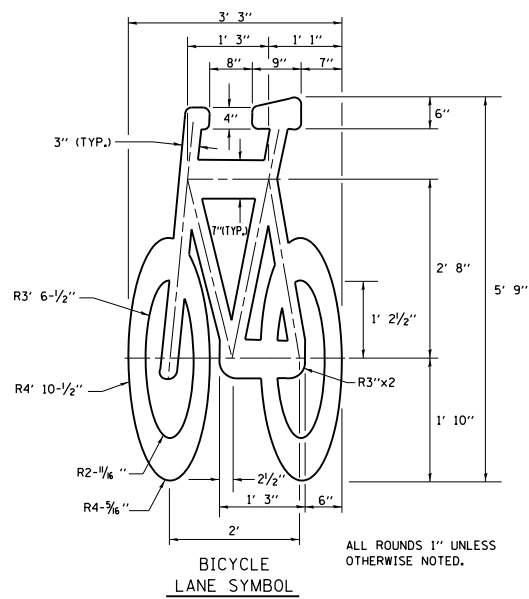
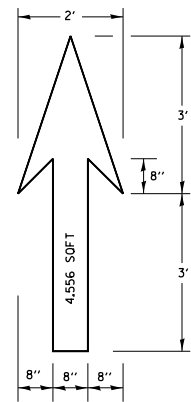
FILE NAME =	USER NAME = r9a11	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
		DRAWN -	REVISED - K. ENG 02-28-12
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -
	PLOT DATE = 4/12/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS**

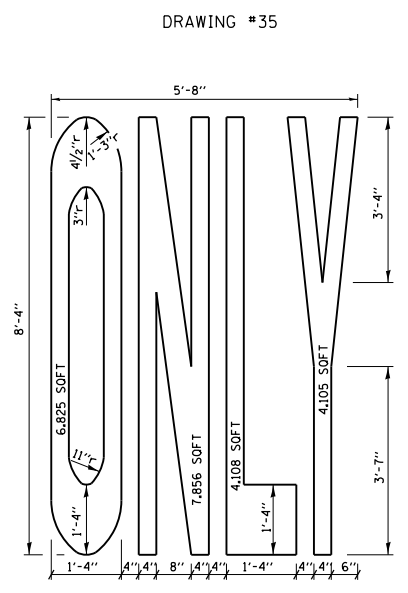
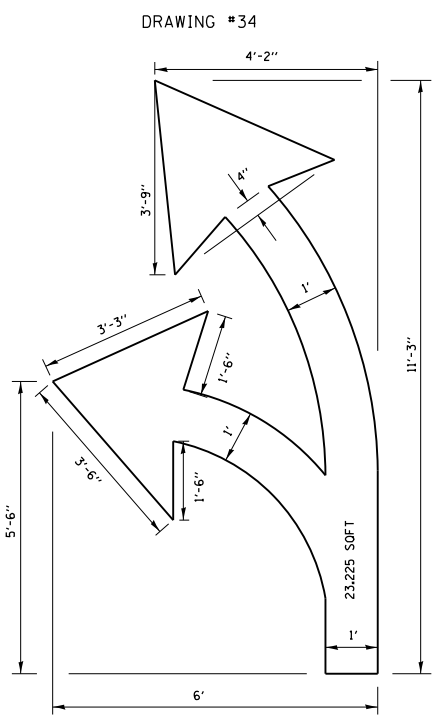
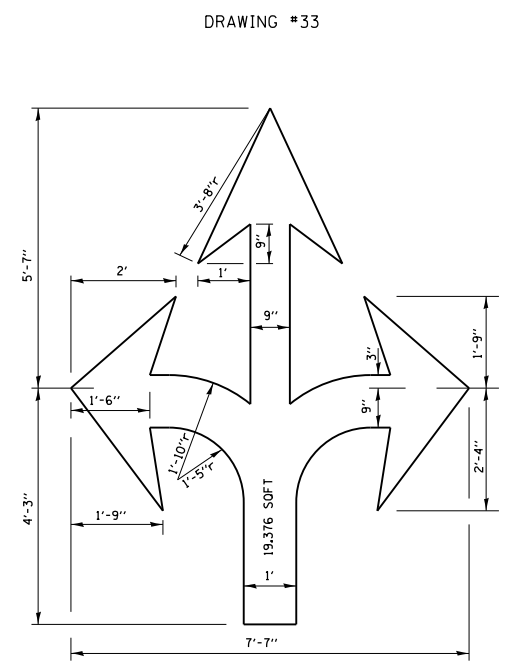
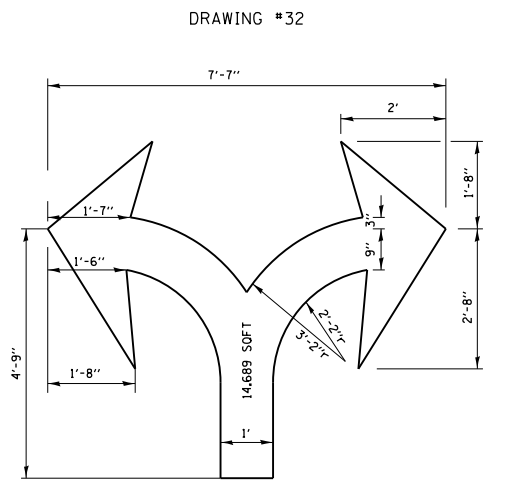
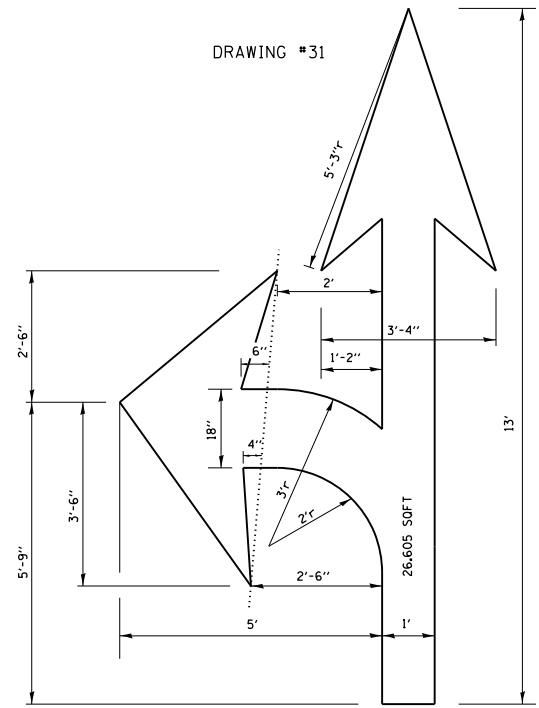
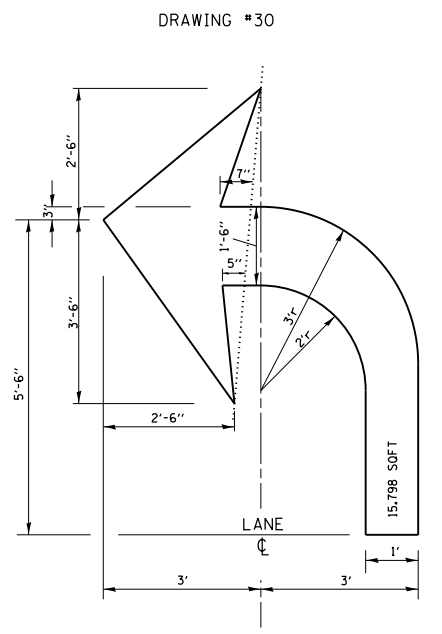
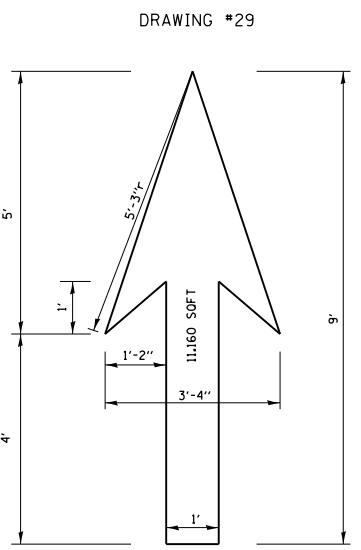
SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	35
<b>TC-24</b>		<b>CONTRACT NO. 60W36</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTE:**  
 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.  
 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

**TYPICAL BIKE LANE SYMBOLS**  
DRAWING #28



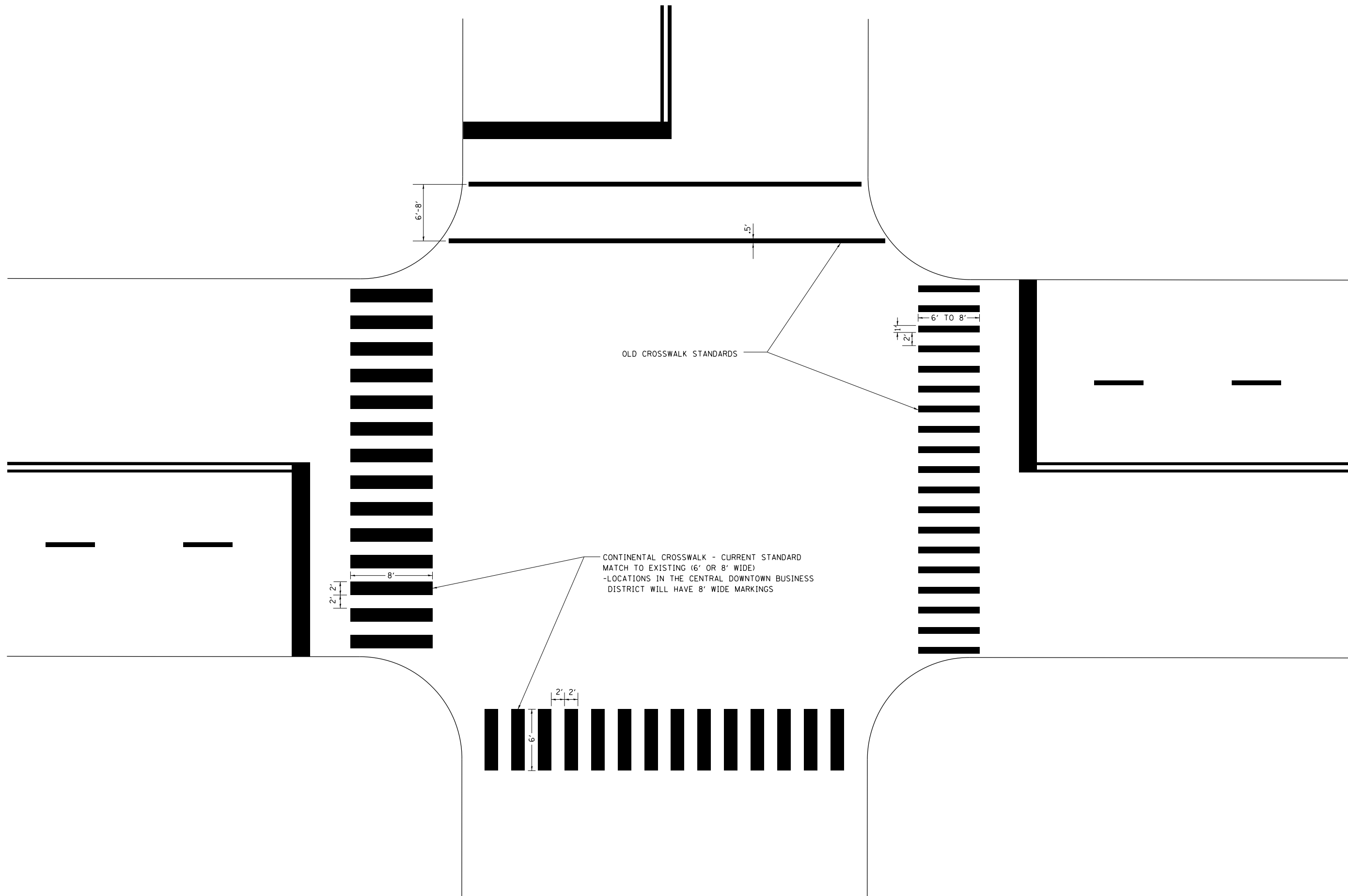
**NOTE:** ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

FILE NAME =	USER NAME = rge11	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
		DRAWN -	REVISED - K. ENG 01-12-12
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -
	PLOT DATE = 4/12/2013	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CITY OF CHICAGO</b>	
<b>TYPICAL PAVEMENT MARKINGS</b>	
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	36
<b>TC-24</b>		<b>CONTRACT NO. 60W36</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



OLD CROSSWALK STANDARDS

CONTINENTAL CROSSWALK - CURRENT STANDARD  
 MATCH TO EXISTING (6' OR 8' WIDE)  
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS  
 DISTRICT WILL HAVE 8' WIDE MARKINGS

FILE NAME =	USER NAME = rge11	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
		DRAWN -	REVISED - K. ENG 01-12-12
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/12/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CITY OF CHICAGO</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101.6-2P-1-3 (13)	COOK	37	37
<b>TC-24</b>		<b>CONTRACT NO. 60W36</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				