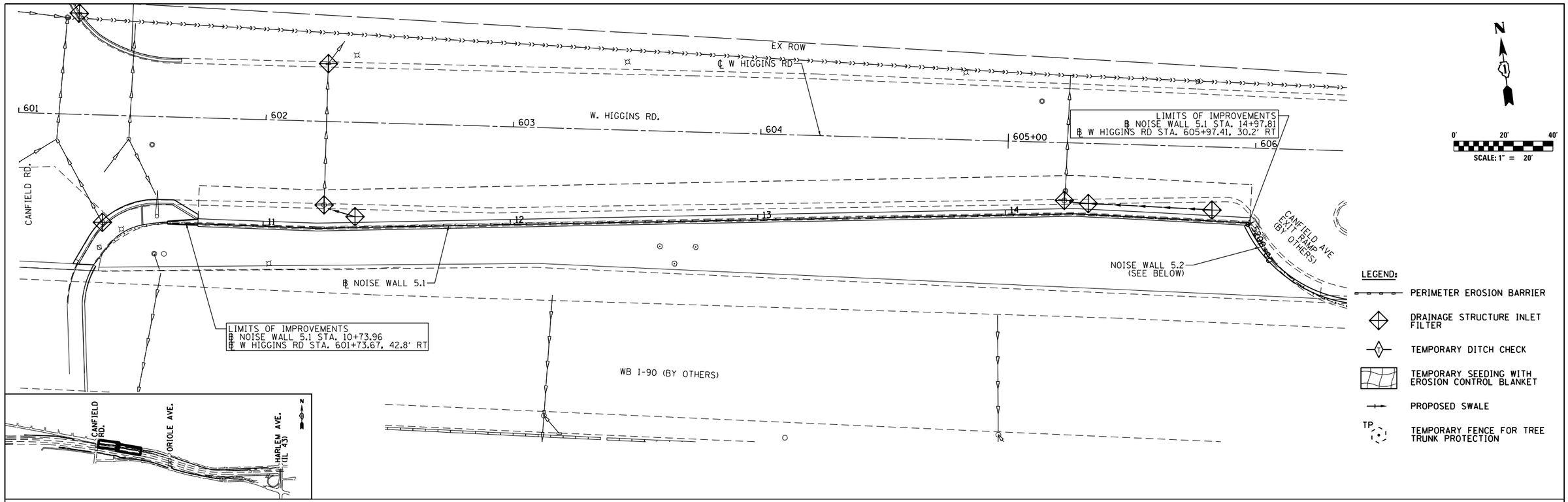
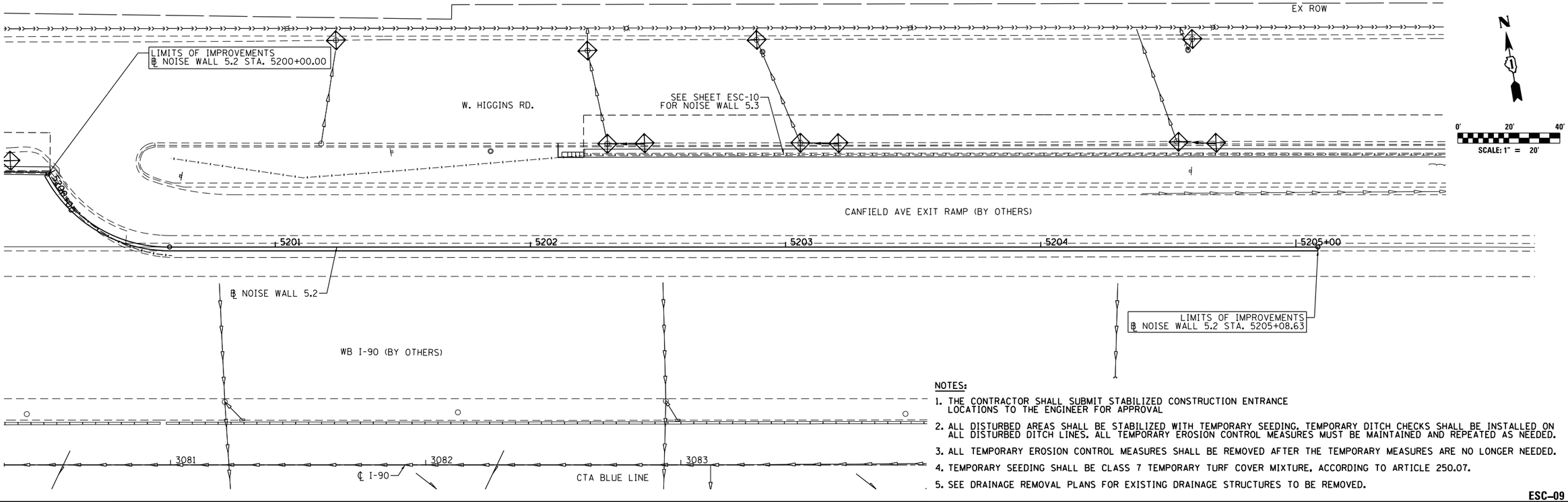




NOTES:

1. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL
2. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY SEEDING. TEMPORARY DITCH CHECKS SHALL BE INSTALLED ON ALL DISTURBED DITCH LINES. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPEATED AS NEEDED.
3. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
4. TEMPORARY SEEDING SHALL BE CLASS 7 TEMPORARY TURF COVER MIXTURE, ACCORDING TO ARTICLE 250.07.
5. SEE DRAINAGE REMOVAL PLANS FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED.

ESC-09

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

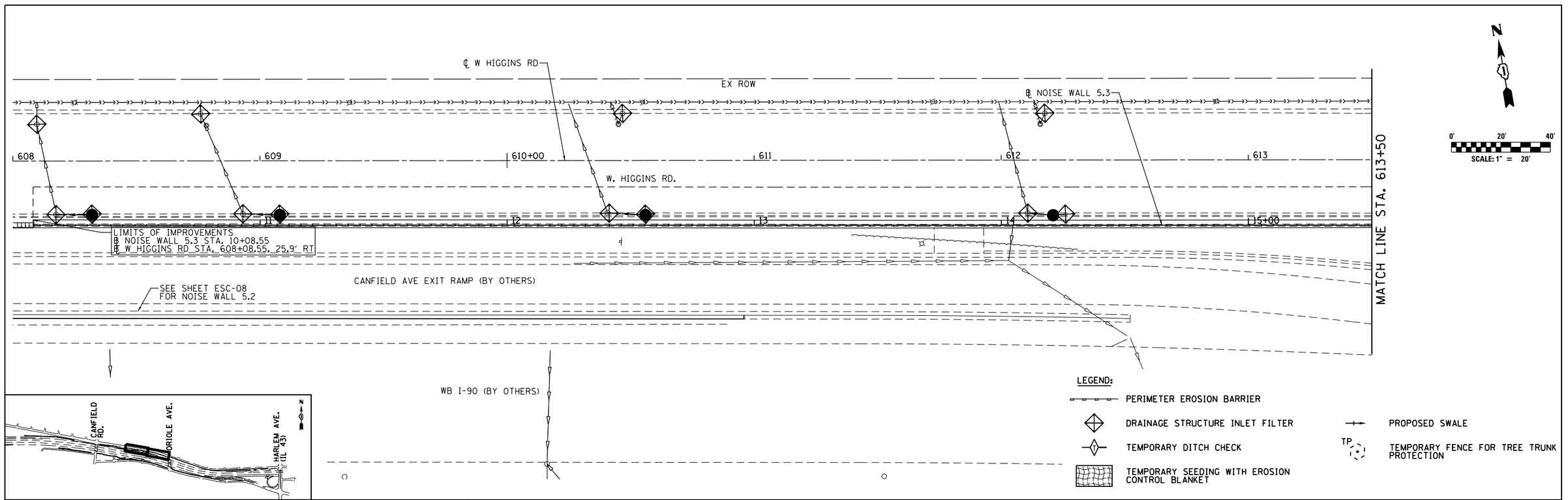
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

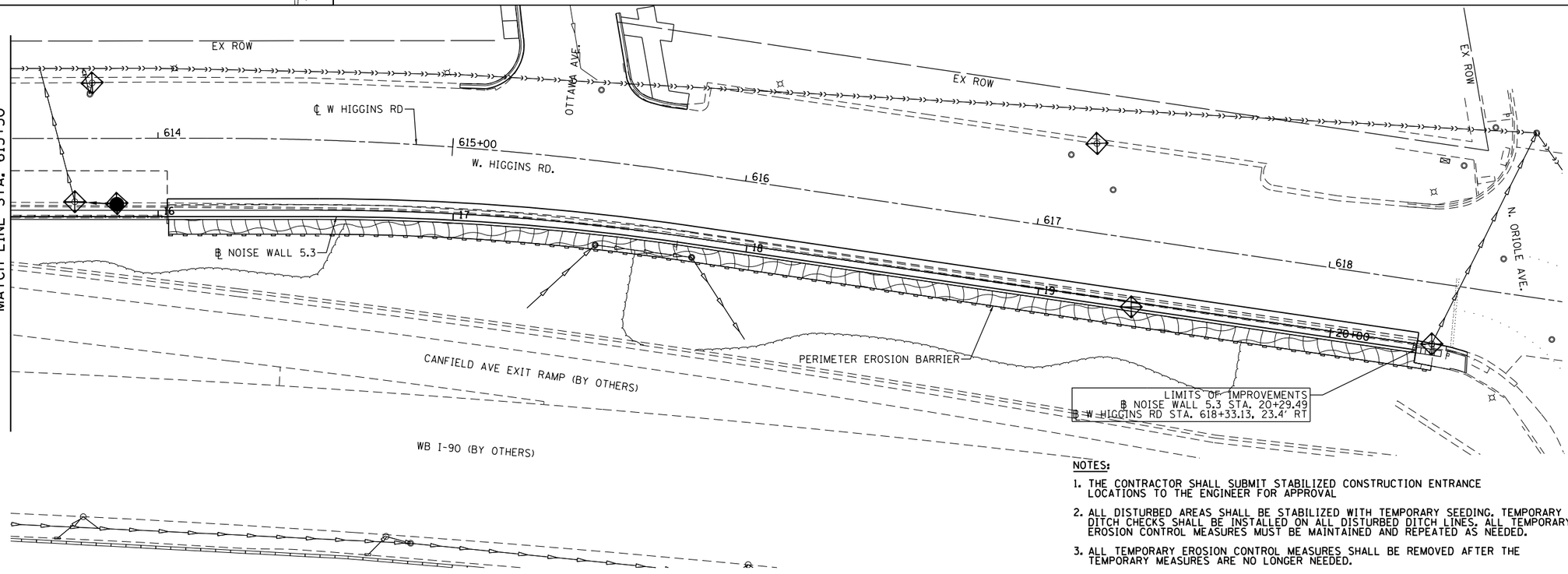
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EROSION AND SEDIMENT CONTROL PLAN
NOISE WALLS 5.1 & 5.2 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 9 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	101
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-Eros09.dgn





NOTES:

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2. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY SEEDING. TEMPORARY DITCH CHECKS SHALL BE INSTALLED ON ALL DISTURBED DITCH LINES. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPEATED AS NEEDED.
3. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
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5. SEE DRAINAGE REMOVAL PLANS FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED.

ESC-10

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

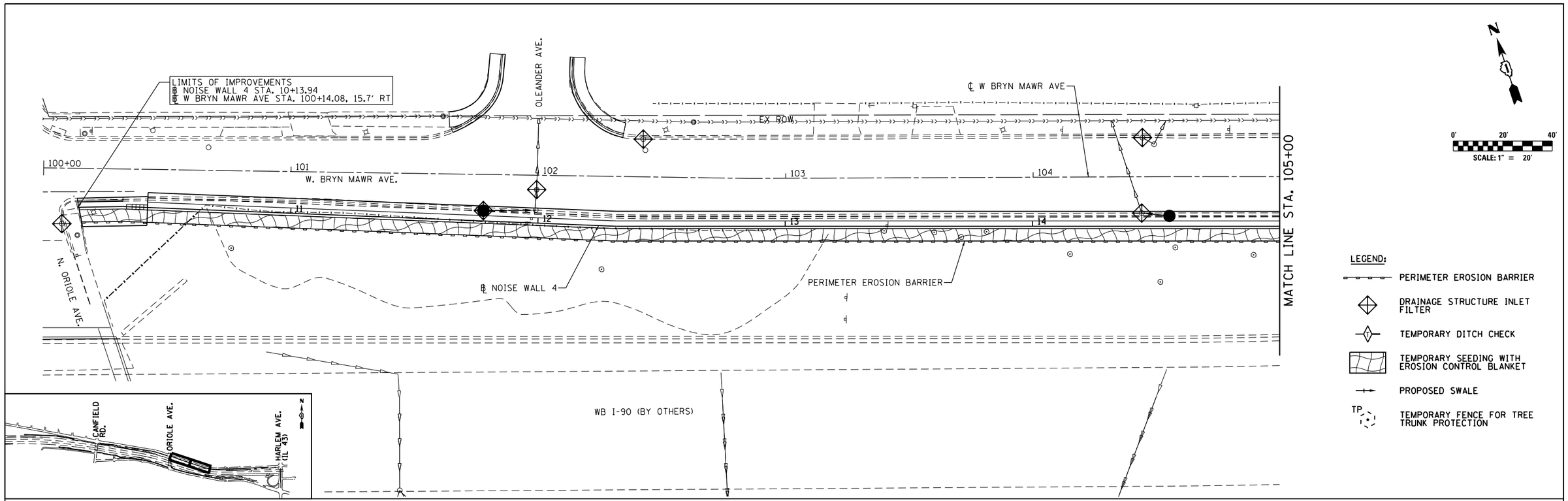
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

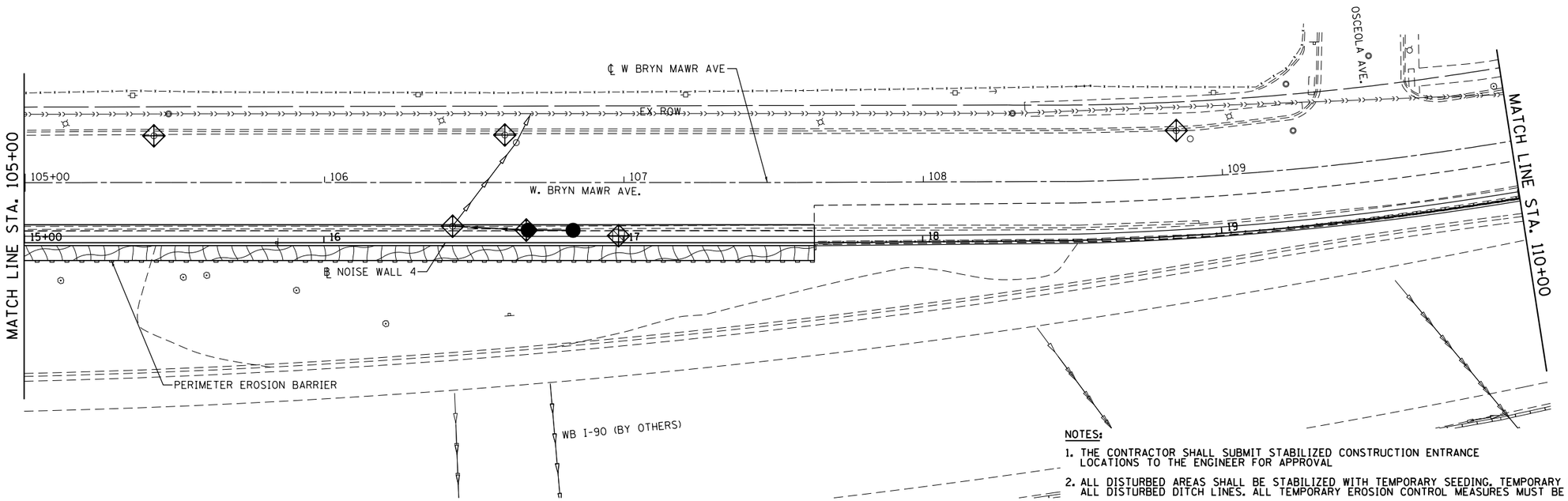
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EROSION AND SEDIMENT CONTROL PLAN
NOISE WALL 5.3 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 10 OF 13 SHEETS | STA. 10+00.00 TO STA. 20+20.94

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	102
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-Eros10.dgn





NOTES:

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5. SEE DRAINAGE REMOVAL PLANS FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED.

ESC-11

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -
	DRAWN JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

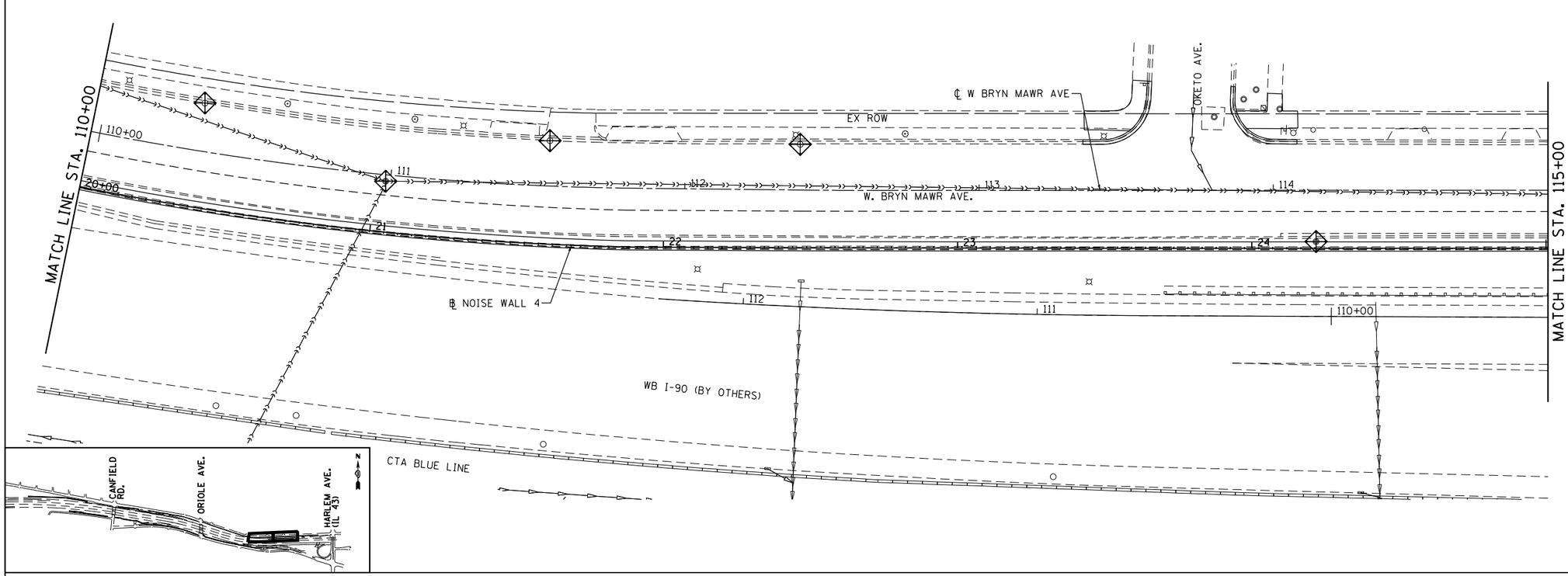
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EROSION AND SEDIMENT CONTROL PLAN
NOISE WALL 4 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 11 OF 13 SHEETS | STA. 10+00.00 TO STA. 19+00.00

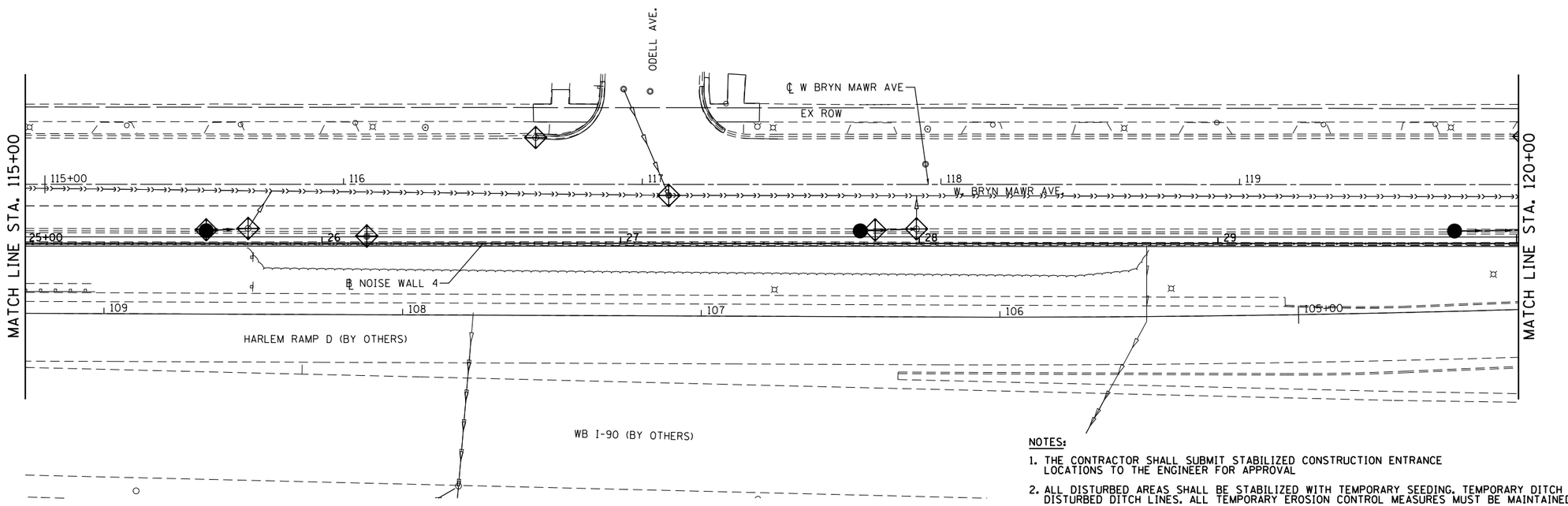
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	103
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-Erosll.dgn



LEGEND:

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTER
- TEMPORARY DITCH CHECK
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET
- PROPOSED SWALE
- TP — TEMPORARY FENCE FOR TREE TRUNK PROTECTION



NOTES:

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5. SEE DRAINAGE REMOVAL PLANS FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED.

ESC-12

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

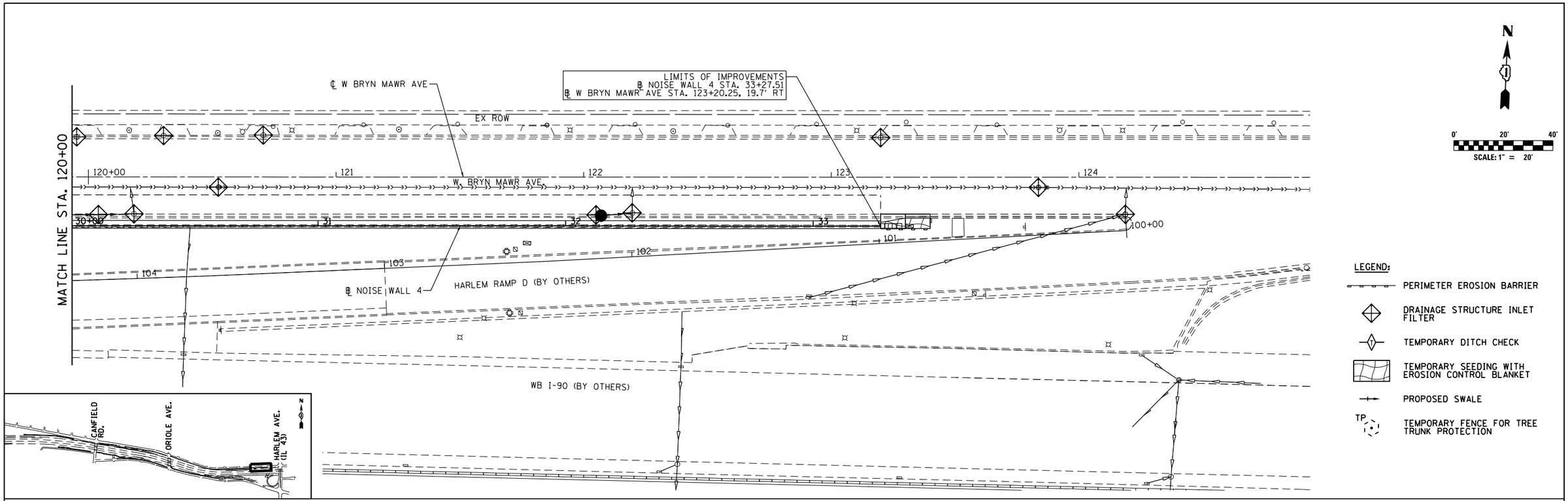
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EROSION AND SEDIMENT CONTROL PLAN
NOISE WALL 4 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 12 OF 13 SHEETS | STA. 110+00 TO STA. 120+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	104
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-Erosl2.dgn



NOTES:

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2. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY SEEDING. TEMPORARY DITCH CHECKS SHALL BE INSTALLED ON ALL DISTURBED DITCH LINES. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPEATED AS NEEDED.
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5. SEE DRAINAGE REMOVAL PLANS FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED.

ESC-13

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

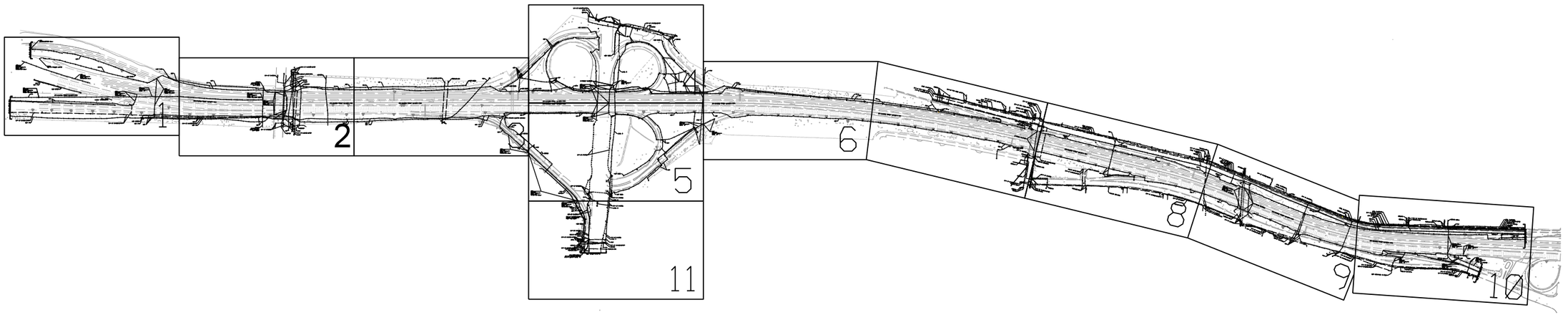
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EROSION AND SEDIMENT CONTROL PLAN
NOISE WALL 4 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 13 OF 13 SHEETS | STA. 120+00.00 TO STA. 123+26.83

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	105
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-Eros13.dgn



A — A	AERIAL
— — — — — — — — — —	UNKNOWN
O — O	OIL
CTV — CTV	CABLE TV
T — T	TELEPHONE
G — G	GAS
E — E	ELECTRIC
— — — — —	TRAFFIC SIGNAL/LIGHTING
W — W	WATER
FORCE MAIN	
FO — FO	FIBER OPTIC
	TBE TEST HOLE
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 4/27/15 through 7/17/15. Changes to utilities after 7/17/15 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: Cover

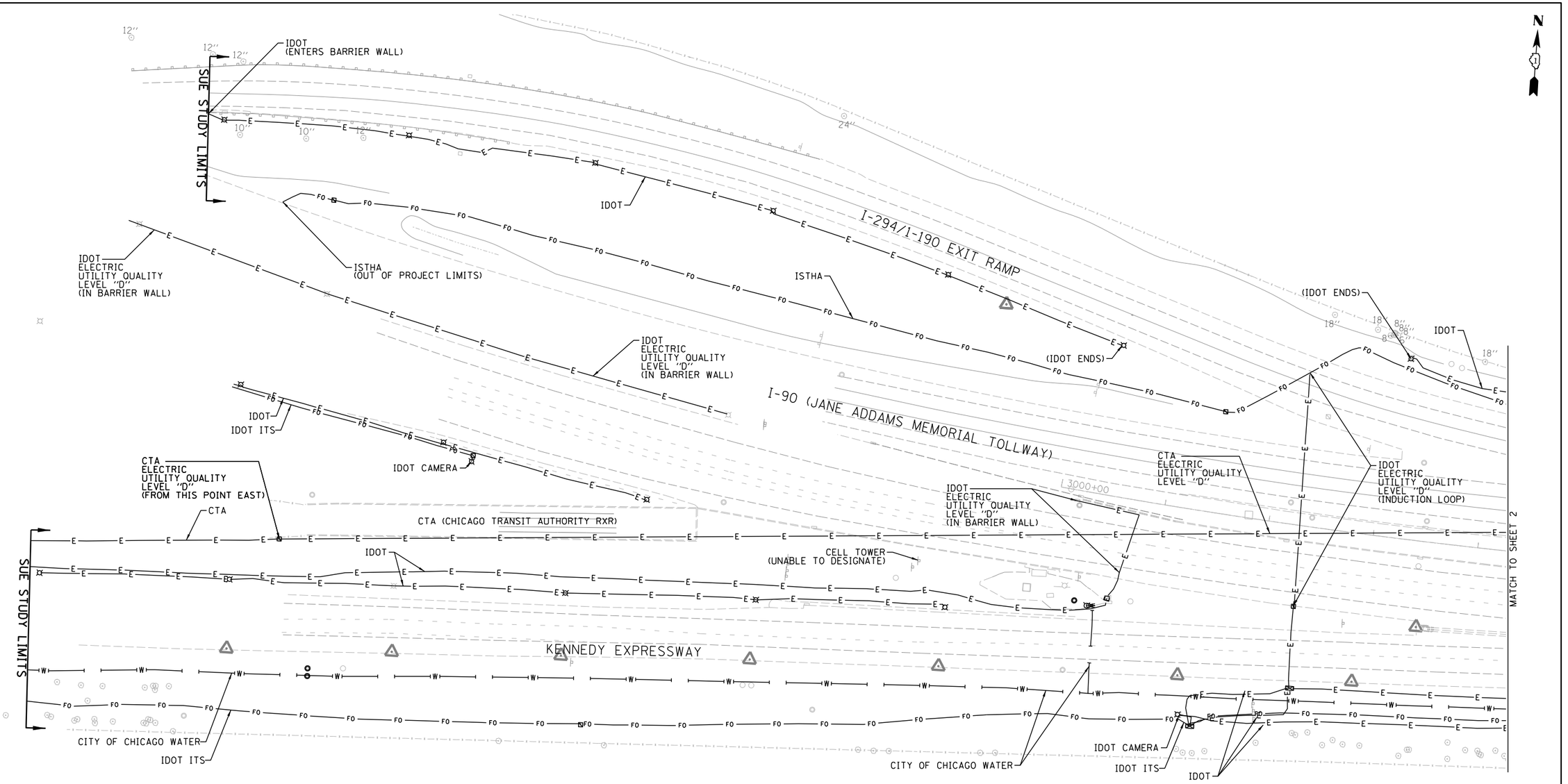
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	106
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	A
UNKNOWN	
OIL	O
CABLE TV	CTV
TELEPHONE	T
GAS	G
ELECTRIC	E
TRAFFIC SIGNAL/LIGHTING	
WATER	W
FORCE MAIN	
FIBER OPTIC	FO
TBE TEST HOLE	
END OF INFORMATION	EOI

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 1 of 11

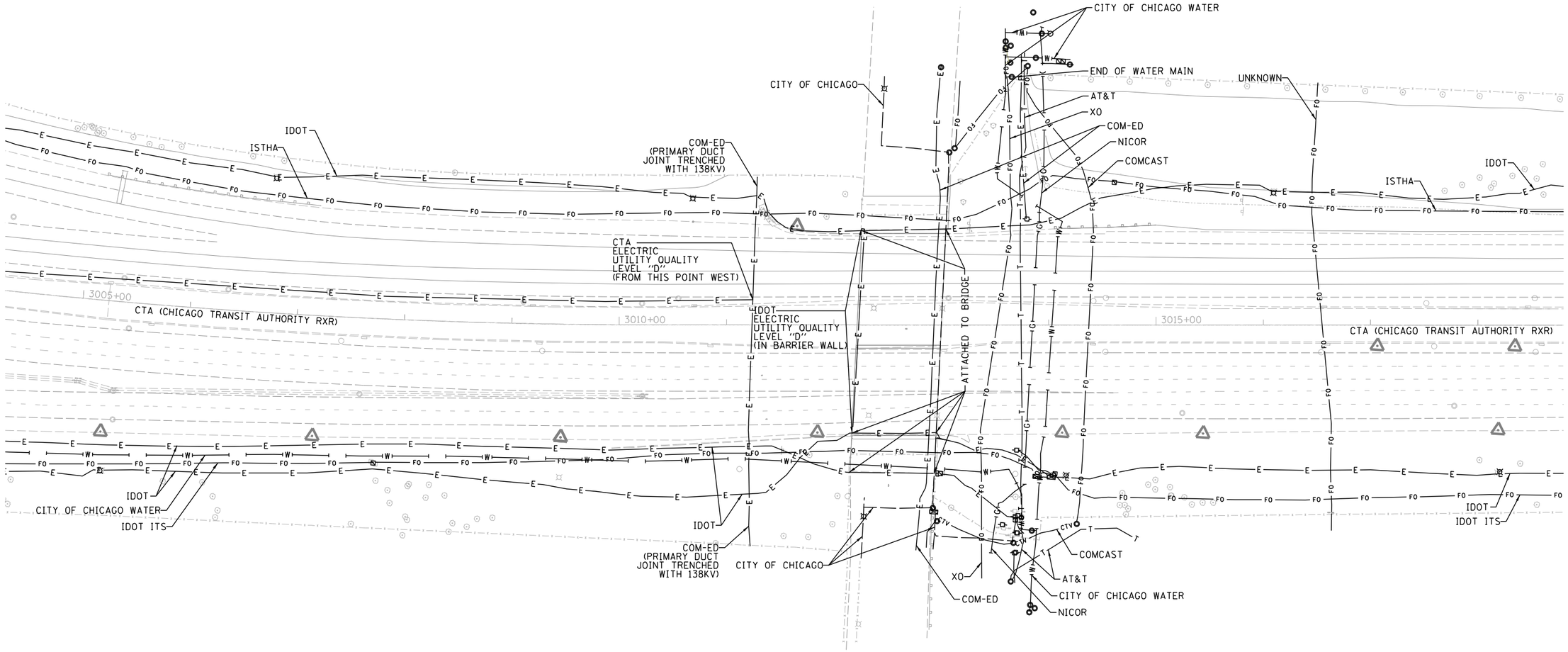
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	107
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	
UNKNOWN	
OIL	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
TRAFFIC SIGNAL/LIGHTING	
WATER	
FORCE MAIN	
FIBER OPTIC	
TBE TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: of 11

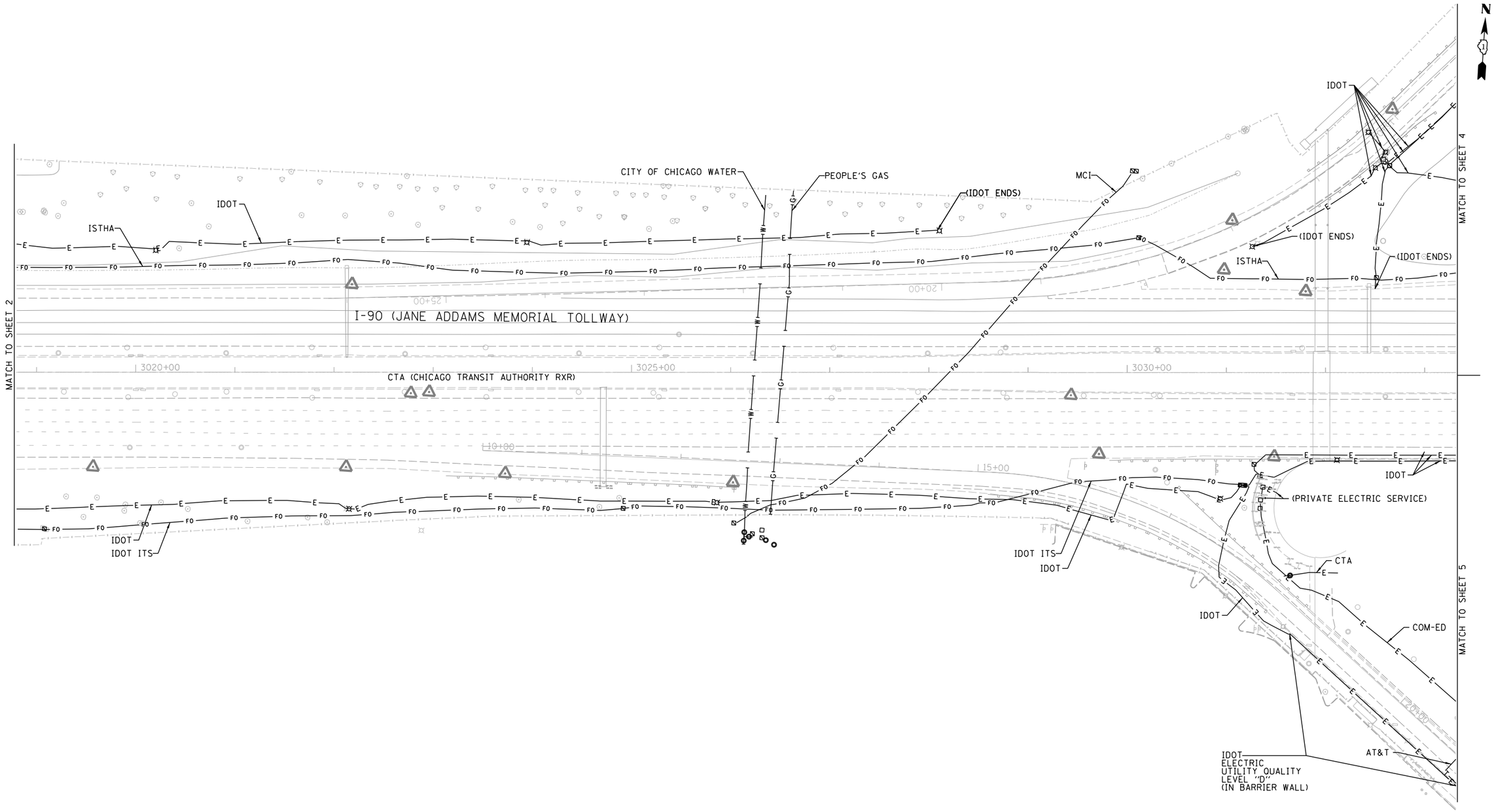
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	108
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	
UNKNOWN	
OIL	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
TRAFFIC SIGNAL/LIGHTING	
WATER	
FORCE MAIN	
FIBER OPTIC	
TBE TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
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NICOR - GAS
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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 3 of 11

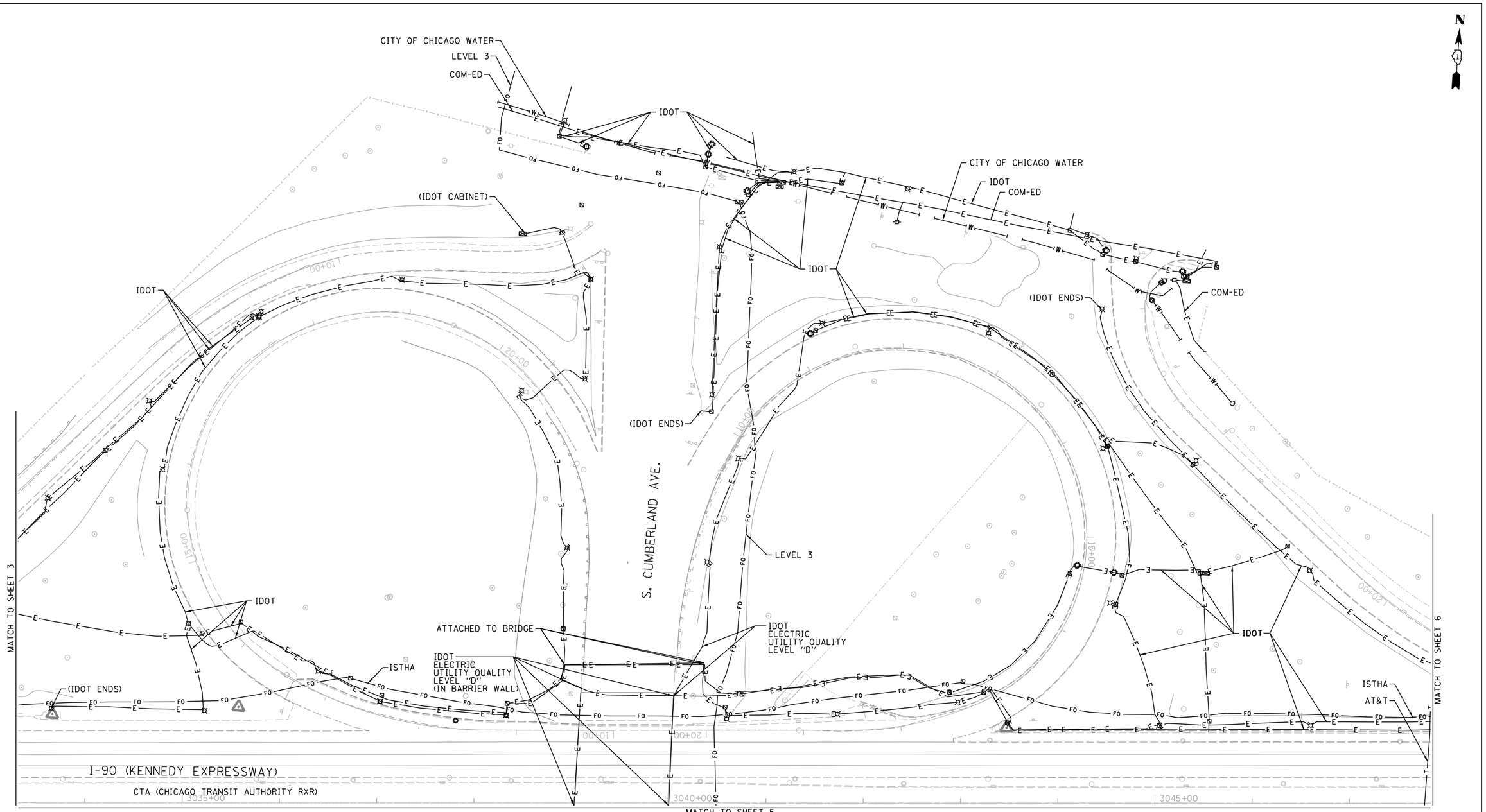
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	109
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



A — A	AERIAL
— — — —	UNKNOWN
O — O	OIL
CTV — CTV	CABLE TV
T — T	TELEPHONE
G — G	GAS
E — E	ELECTRIC
— — — —	TRAFFIC SIGNAL/LIGHTING
W — W	WATER
FORCE MAIN	
FO — FO	FIBER OPTIC
	TBE TEST HOLE
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
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COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
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PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 4 of 11

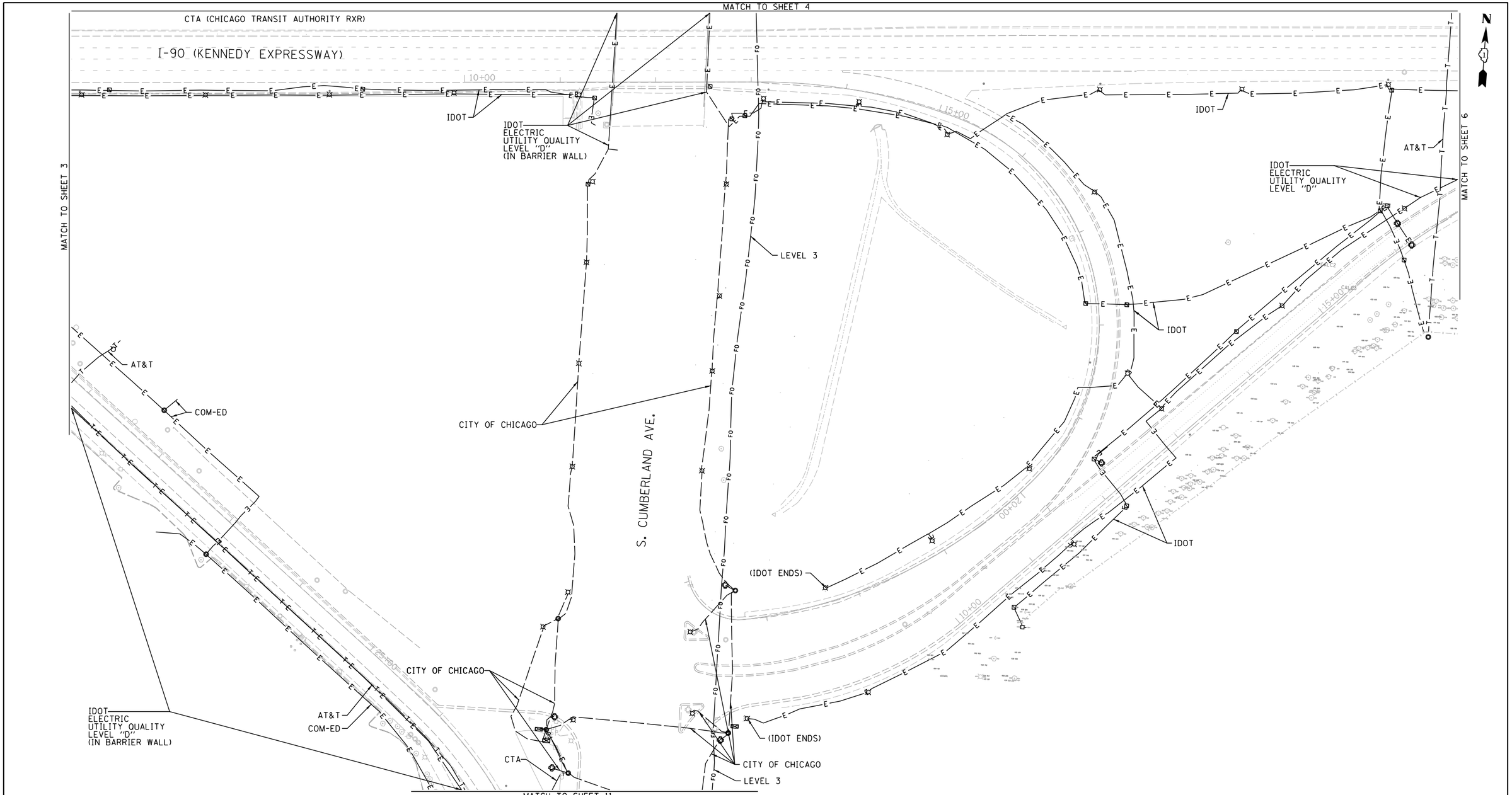
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	110
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	
UNKNOWN	
OIL	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
TRAFFIC SIGNAL/LIGHTING	
WATER	
FORCE MAIN	
FIBER OPTIC	
TBE TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 5 of 11

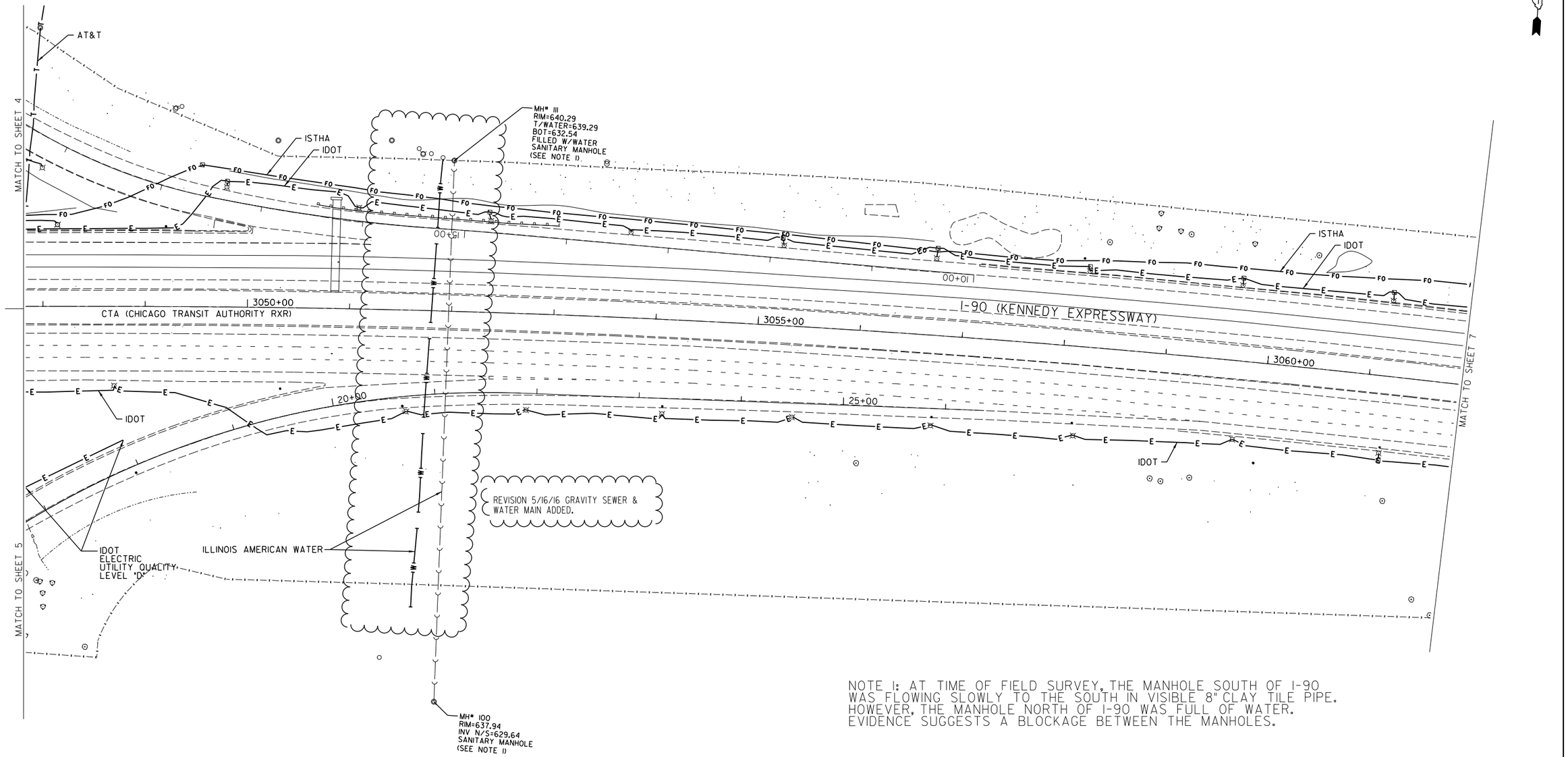
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	111
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



NOTE 1: AT TIME OF FIELD SURVEY, THE MANHOLE SOUTH OF I-90 WAS FLOWING SLOWLY TO THE SOUTH IN VISIBLE 8" CLAY TILE PIPE. HOWEVER, THE MANHOLE NORTH OF I-90 WAS FULL OF WATER. EVIDENCE SUGGESTS A BLOCKAGE BETWEEN THE MANHOLES.

A — A AERIAL
UNKNOWN
O — O OIL
CTV — CTV CABLE TV
T — T TELEPHONE
G — G GAS
E — E ELECTRIC
TRAFFIC SIGNAL/LIGHTING
W — W WATER
SANITARY SEWER
FO — FO FIBER OPTIC
TBE TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
ILLINOIS AMERICAN WATER - WATER/SEWER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3720 claassenwhite@cwasurvey.com

TBE Job No. IL09510651
SUE Plan Page: 6 of 11

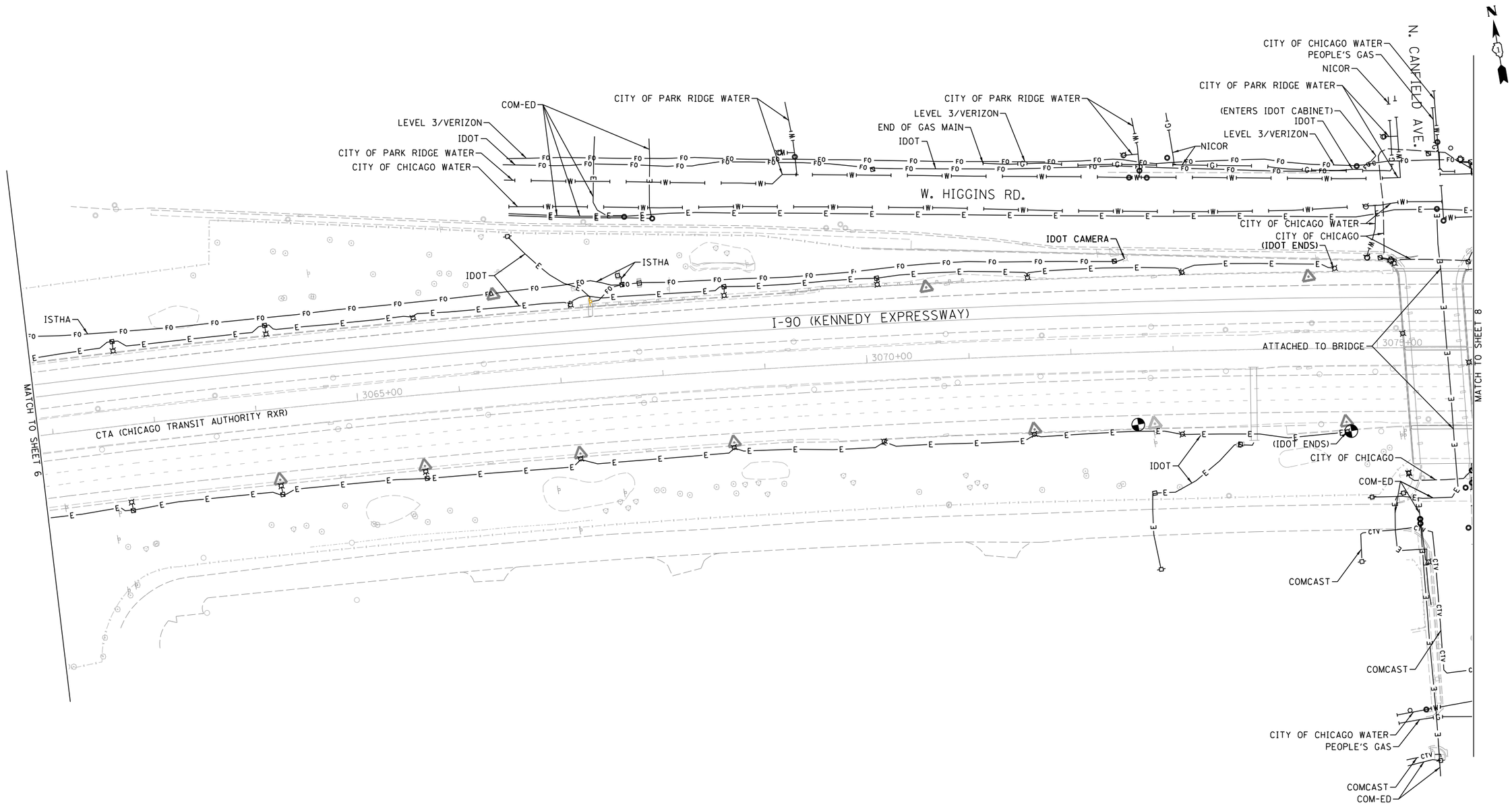
Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

DESIGNED	LP	REV:LP	REVISED ADDED UTILITIES
DRAWN	SRK	REV:KLC	REVISED
CHECKED	MGR	REV:MGR	REVISED
DATE	7/22/15	5/16/16	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-90 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	112
	Contract No. 60Y38 & 60Y39			
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	
UNKNOWN	
OIL	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
TRAFFIC SIGNAL/LIGHTING	
WATER	
FORCE MAIN	
FIBER OPTIC	
TBE TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS
AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 7 of 11

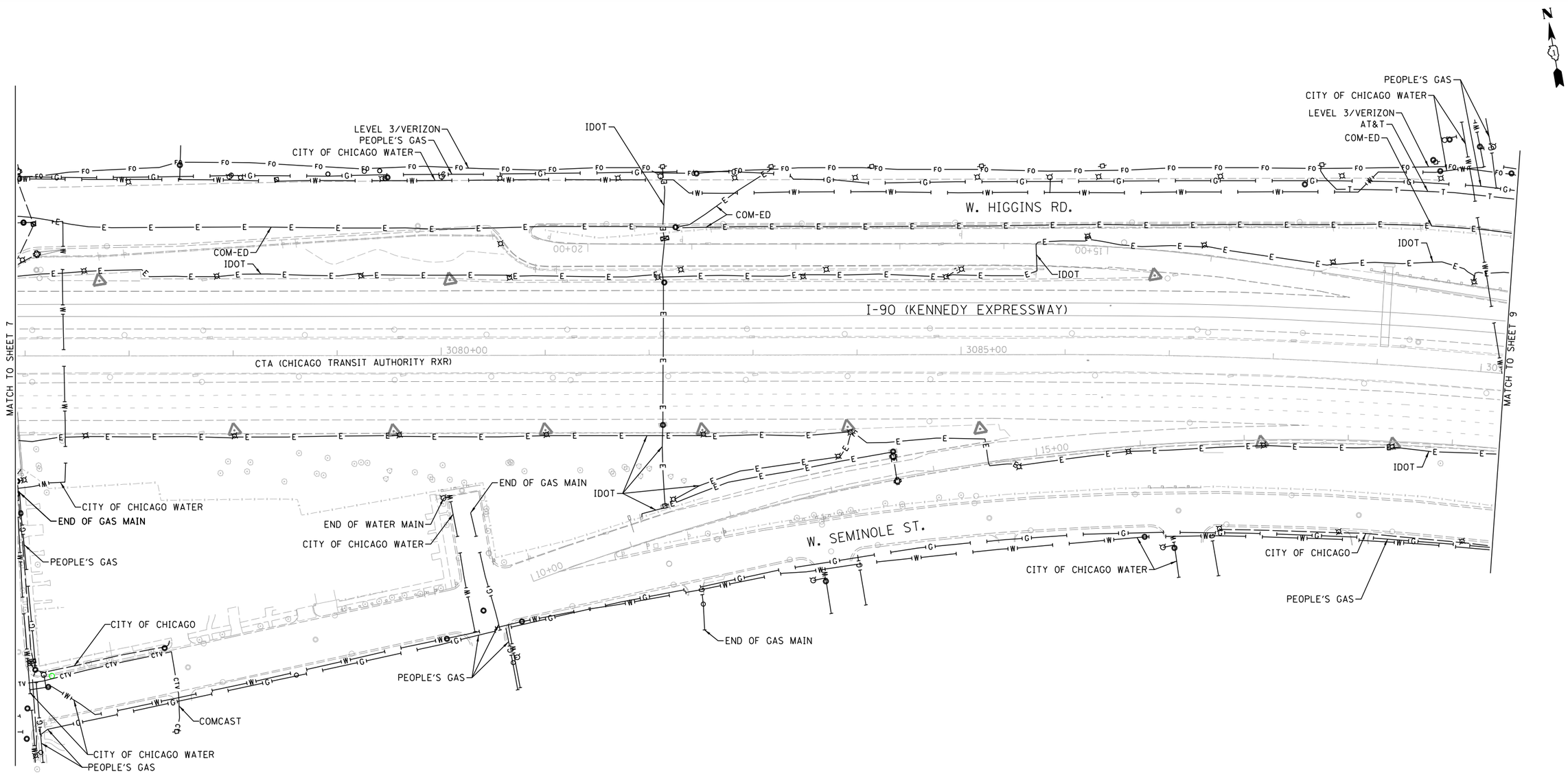
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	113
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL	
UNKNOWN	
OIL	
CABLE TV	
TELEPHONE	
GAS	
ELECTRIC	
TRAFFIC SIGNAL/LIGHTING	
WATER	
FORCE MAIN	
FIBER OPTIC	
TBE TEST HOLE	
EOI	END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 8 of 11

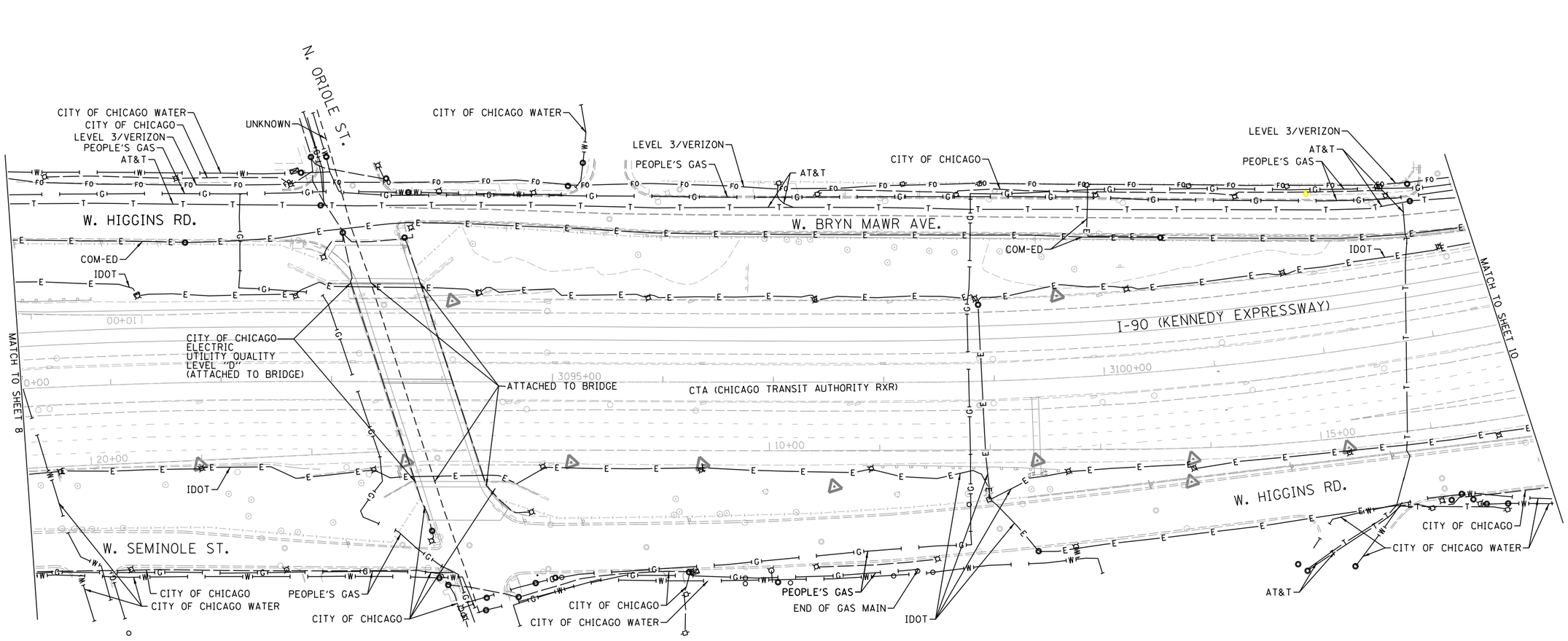
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	114
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



A AERIAL
UNKNOWN
O OIL
CTV CABLE TV
T TELEPHONE
G GAS
E ELECTRIC
TRAFFIC SIGNAL/LIGHTING
W WATER
FORCE MAIN
FO FIBER OPTIC
TBE TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS

AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 9 of 11

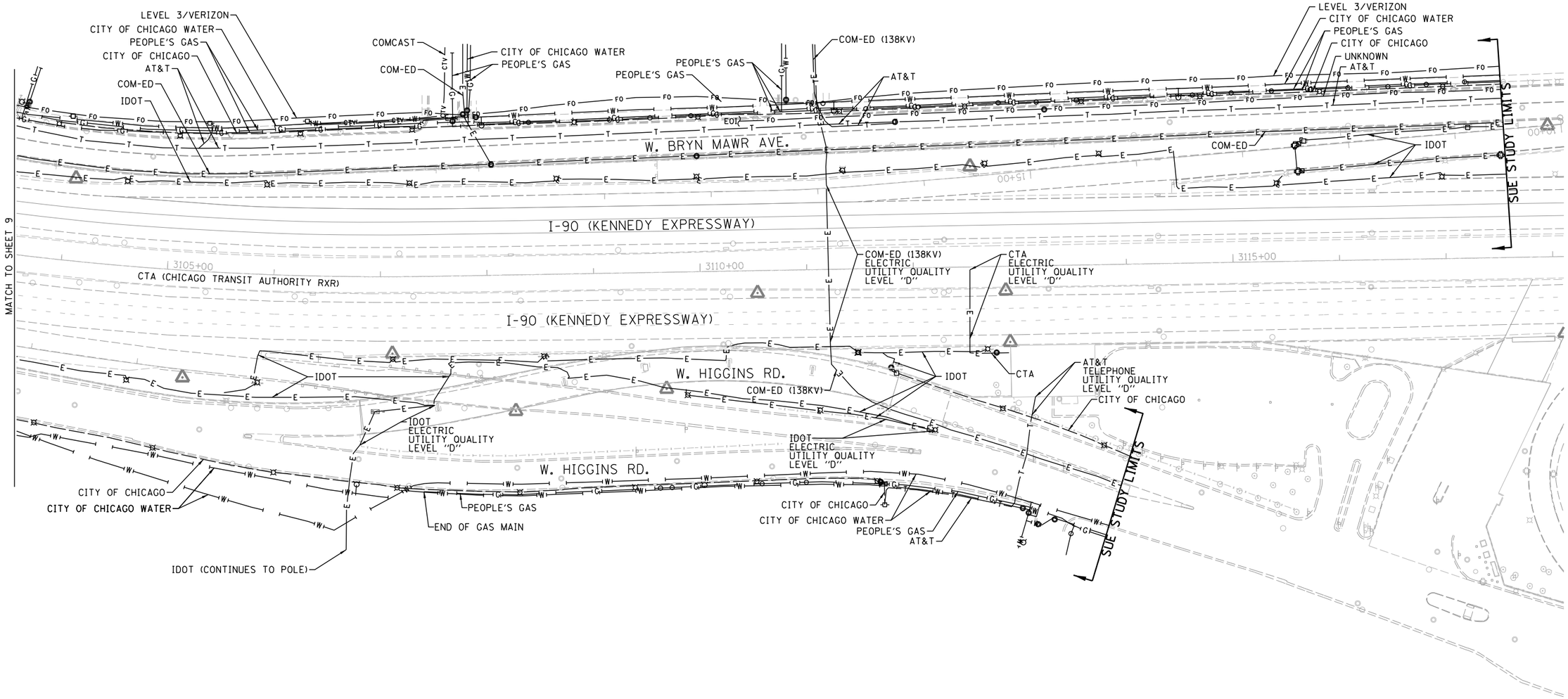
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	115
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL
UNKNOWN
OIL
CABLE TV
TELEPHONE
GAS
ELECTRIC
TRAFFIC SIGNAL/LIGHTING
WATER
FORCE MAIN
FIBER OPTIC
TBE TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS
AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
MCI - FIBER OPTIC
NICOR - GAS
PEOPLE'S GAS - GAS
UNKNOWN - FIBER OPTIC/UNKNOWN
VERIZON - FIBER OPTIC
XO - FIBER OPTIC

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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 10 of 11

Utility Quality Level "A" : Visually Verified Test Hole
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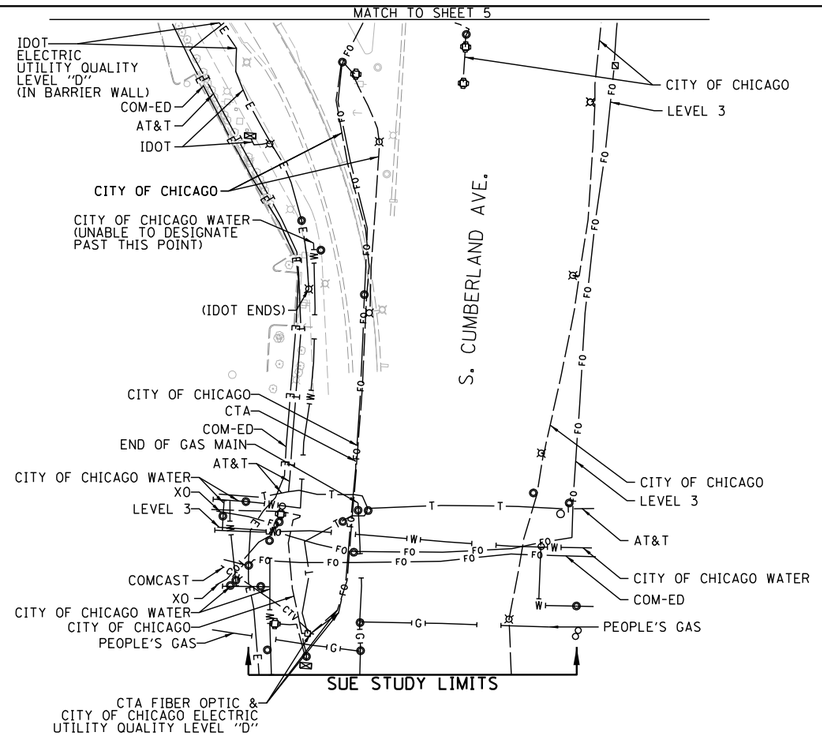
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	116
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



AERIAL
UNKNOWN
OIL
CABLE TV
TELEPHONE
GAS
ELECTRIC
TRAFFIC SIGNAL/LIGHTING
WATER
FORCE MAIN
FIBER OPTIC
TBE TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS
AT&T - FIBER OPTIC/TELEPHONE
CITY OF CHICAGO - ELECTRIC
CITY OF CHICAGO WATER - WATER
CITY OF PARK RIDGE WATER - WATER
CTA - ELECTRIC
COM-ED - ELECTRIC
COMCAST - CABLE TV/FIBER OPTIC
IDOT - ELECTRIC/FIBER OPTIC
IDOT ITS - FIBER OPTIC
ISTHA - FIBER OPTIC
LEVEL 3 - FIBER OPTIC
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UNKNOWN - FIBER OPTIC/UNKNOWN
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20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510651
SUE Plan Page: 11 of 11

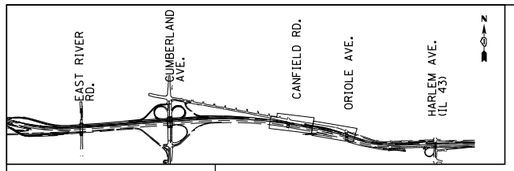
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

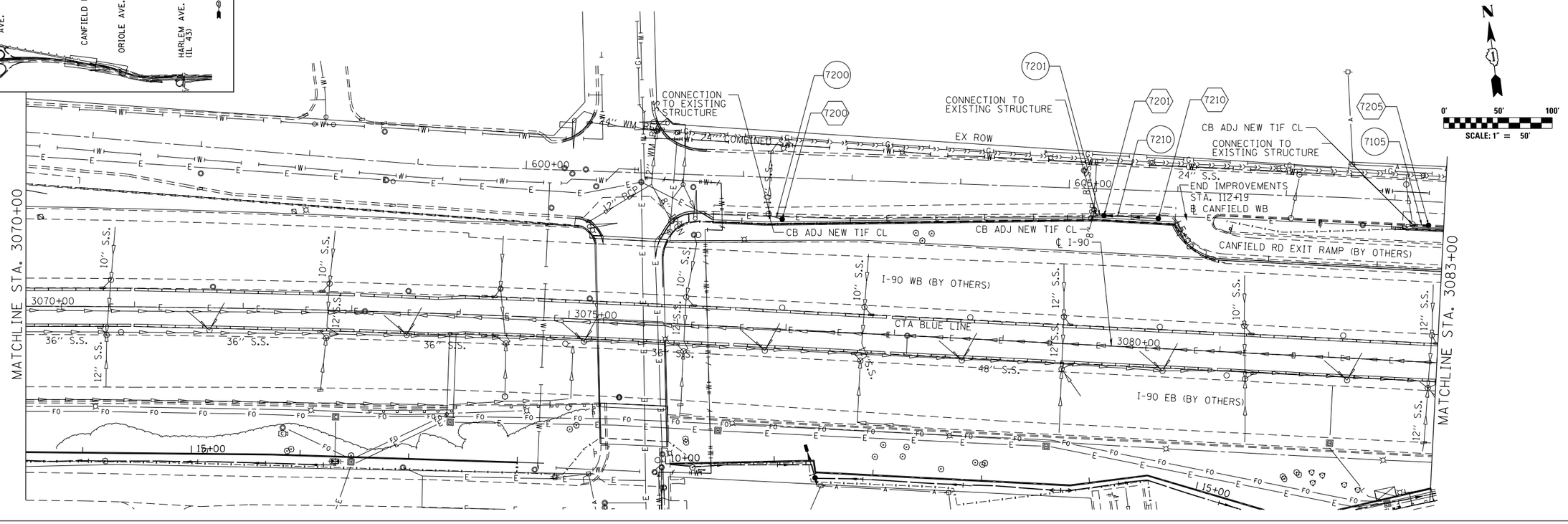
DESIGNED	LP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	7/22/15	REVISED

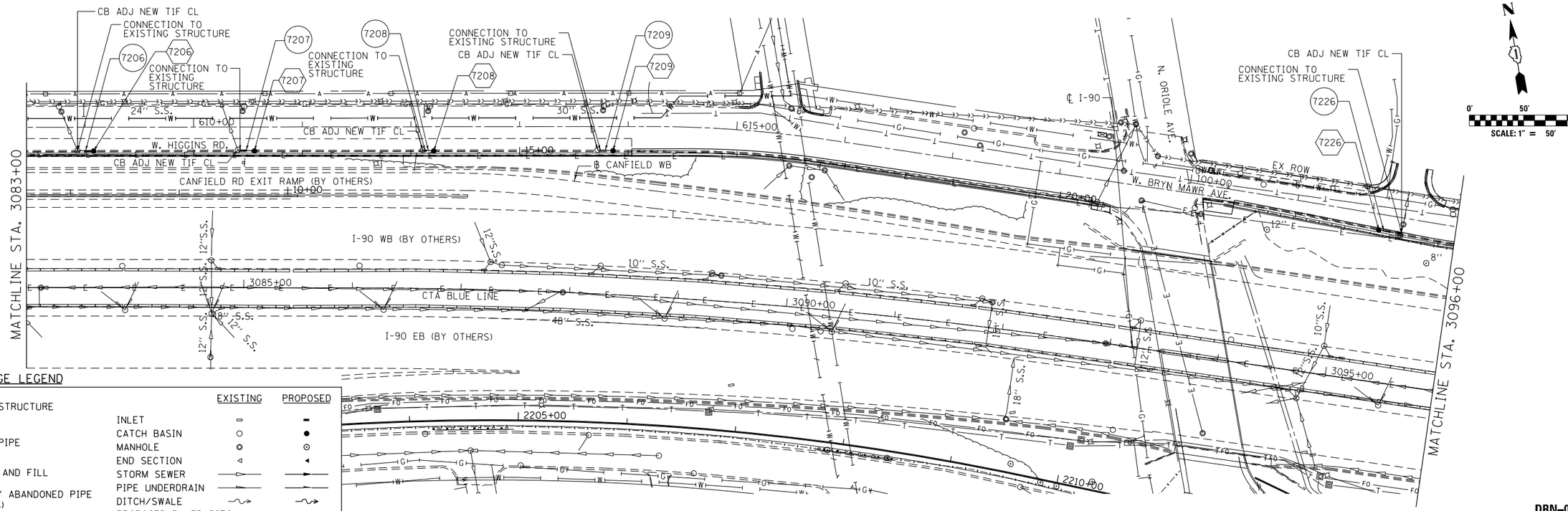
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–90 from I–190 to Harlem Avenue
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	353	117
		Contract No. 60Y38 & 60Y39		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		







PROPOSED DRAINAGE LEGEND

		EXISTING	PROPOSED
(XXXX)	PROPOSED STRUCTURE		
(XXXX)	PROPOSED PIPE		
(S)	STUB PIPE AND FILL		
	PREVIOUSLY ABANDONED PIPE (BY OTHERS) CITY OF CHICAGO SEWER		
	INLET	▭	▬
	CATCH BASIN	○	●
	MANHOLE	⊙	⊙
	END SECTION	◁	◀
	STORM SEWER	——▷——	——▶——
	PIPE UNDERDRAIN	——▷——	——▶——
	DITCH/SWALE	~~▷~~	~~▶~~
	PROPOSED PAVED DITCH		

DRN-01

exp U.S. Services Inc.
Chicago, IL
BUILDINGS. EARTH & ENVIRONMENT. ENERGY. INDUSTRIAL INFRASTRUCTURE. SUSTAINABILITY

USER NAME = $USER$	DESIGNED	HDU	REVISED -
	DRAWN	HDU	REVISED -
PLOT SCALE = $SCALE$	CHECKED	SH	REVISED -
PLOT DATE = 8-14-2017	DATE	8/21/2017	REVISED -

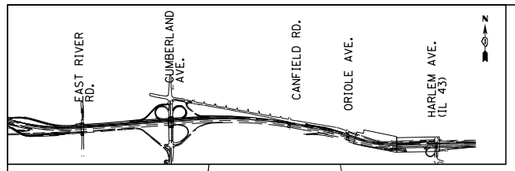
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

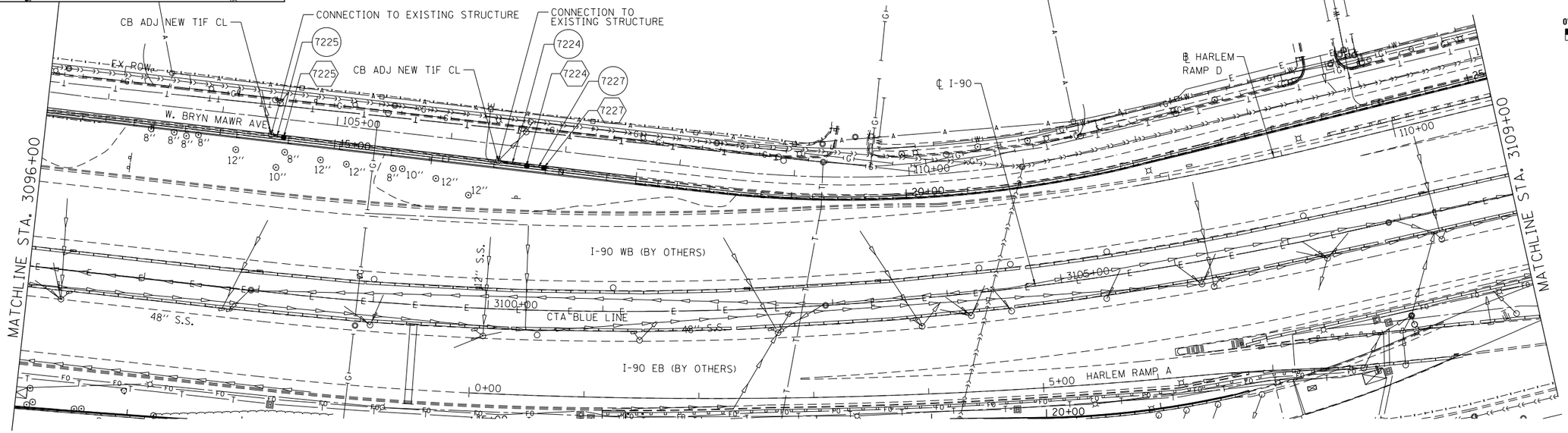
I-90 NOISE WALLS FROM CUMBERLAND AVE TO HARLEM AVE
PROPOSED DRAINAGE PLAN

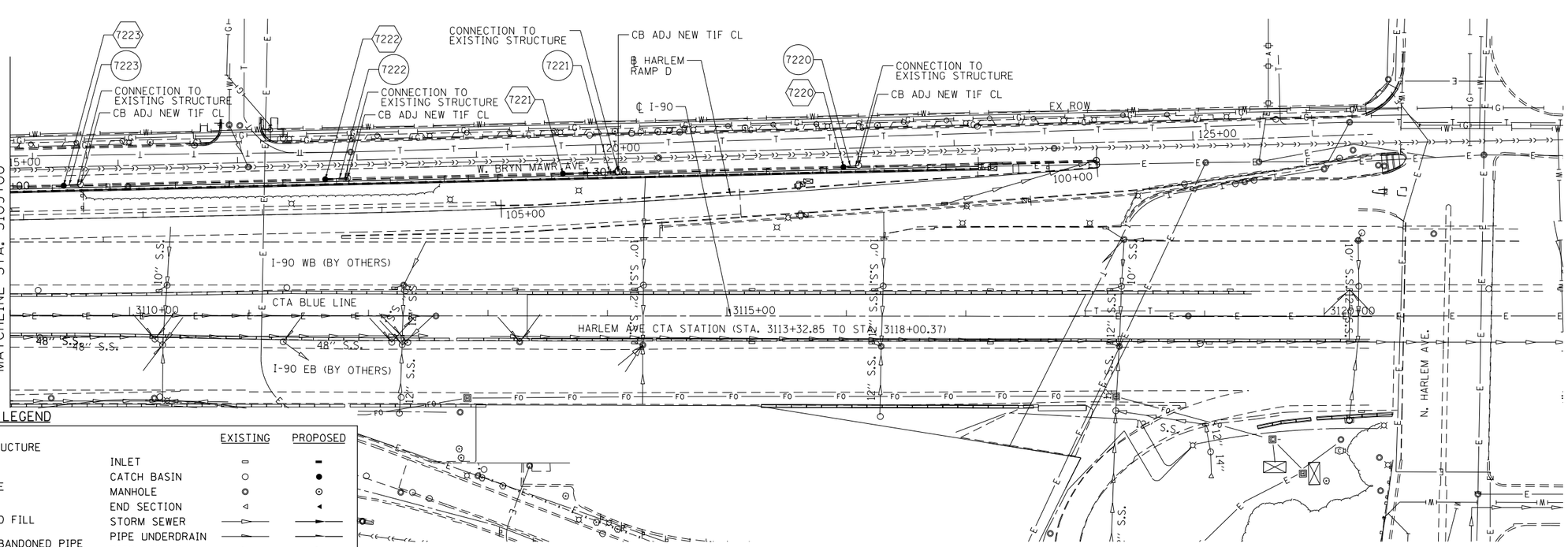
SCALE: 1"=50' | SHEET NO. 1 OF 4 SHEETS | STA. 3070+00 TO STA. 3096+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	118
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILEL$







PROPOSED DRAINAGE LEGEND

		EXISTING	PROPOSED
XXXX	PROPOSED STRUCTURE		
XXXX	PROPOSED PIPE		
S	STUB PIPE AND FILL		
	PREVIOUSLY ABANDONED PIPE (BY OTHERS)		
	CITY OF CHICAGO SEWER		
	INLET	▭	▬
	CATCH BASIN	○	●
	MANHOLE	◎	⊙
	END SECTION	◁	◀
	STORM SEWER	——▷——	——▶——
	PIPE UNDERDRAIN	——▷——	——▶——
	DITCH/SWALE	~~▷	~~▶
	PROPOSED PAVED DITCH		

DRN-02

exp U.S. Services Inc.
Chicago, IL
BUILDINGS. EARTH & ENVIRONMENT. ENERGY. INDUSTRIAL INFRASTRUCTURE. SUSTAINABILITY

USER NAME = $USER$	DESIGNED	HDU	REVISED -
	DRAWN	HDU	REVISED -
PLOT SCALE = $SCALE$	CHECKED	SH	REVISED -
PLOT DATE = 8-14-2017	DATE	8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE TO HARLEM AVE
PROPOSED DRAINAGE PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 4 SHEETS | STA. 3096+00 TO STA. 3122+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	119
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = $FILEL$

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) (X6030310)

STATION	OFFSET	DIR	ALIGNMENT	EACH
571+06.92	45.60	LT	HIGGINS	1
571+29.24	1.86	RT	HIGGINS	1
572+65.78	25.37	RT	HIGGINS	1
572+65.78	27.08	LT	HIGGINS	1
572+73.30	26.39	LT	HIGGINS	1
574+47.13	36.89	LT	HIGGINS	1
577+86.29	35.20	LT	HIGGINS	1
578+16.94	23.11	LT	HIGGINS	1
581+24.15	31.42	LT	HIGGINS	1
581+56.08	22.03	LT	HIGGINS	1
584+57.65	14.43	LT	HIGGINS	1
587+86.12	24.62	LT	HIGGINS	1
587+98.17	31.23	LT	HIGGINS	1
588+09.78	17.98	RT	HIGGINS	1
591+30.75	21.51	LT	HIGGINS	1
591+71.06	27.38	RT	HIGGINS	1
592+68.89	29.05	RT	HIGGINS	1
593+08.72	23.54	RT	HIGGINS	1
593+36.55	24.62	RT	HIGGINS	1
594+74.51	39.81	LT	HIGGINS	1
595+07.31	29.02	RT	HIGGINS	1
595+21.19	24.97	RT	HIGGINS	1
595+26.08	28.44	RT	HIGGINS	1
597+01.70	24.80	RT	HIGGINS	1
598+02.37	29.14	LT	HIGGINS	1
598+12.24	36.34	LT	HIGGINS	1
598+19.68	31.02	LT	HIGGINS	1
598+67.27	27.47	LT	HIGGINS	1
598+72.38	16.80	RT	HIGGINS	1
598+78.70	17.58	RT	HIGGINS	1
600+35.25	1.91	LT	HIGGINS	1
600+42.55	2.94	RT	HIGGINS	1
600+54.82	1.29	LT	HIGGINS	1
600+64.92	13.90	RT	HIGGINS	1
601+18.63	38.97	LT	HIGGINS	1
601+44.79	9.42	RT	HIGGINS	1
601+54.27	11.39	RT	HIGGINS	1
605+13.18	16.49	LT	HIGGINS	1
605+23.68	19.43	RT	HIGGINS	1
607+04.99	20.71	RT	HIGGINS	1
608+09.72	14.86	LT	HIGGINS	1
608+78.32	14.30	LT	HIGGINS	1
610+45.11	14.63	LT	HIGGINS	1
612+15.81	14.51	LT	HIGGINS	1
613+76.89	14.97	LT	HIGGINS	1
615+47.90	24.00	LT	HIGGINS	1
617+07.95	25.00	LT	HIGGINS	1
617+23.72	15.29	LT	HIGGINS	1
618+58.10	11.48	LT	HIGGINS	1
618+62.96	55.35	LT	HIGGINS	1
618+78.26	13.16	RT	HIGGINS	1
618+87.14	29.42	LT	HIGGINS	1
100+66.53	9.28	LT	BRYN MAWR	1
101+99.40	5.84	RT	BRYN MAWR	1
102+43.11	10.78	LT	BRYN MAWR	1
104+48.93	13.14	LT	BRYN MAWR	1
106+64.06	13.33	LT	BRYN MAWR	1
108+89.96	12.73	LT	BRYN MAWR	1
109+24.84	12.86	LT	BRYN MAWR	1
110+98.39	2.17	RT	BRYN MAWR	1
113+79.96	24.94	LT	BRYN MAWR	1
116+93.76	31.91	LT	BRYN MAWR	1
117+02.63	31.15	LT	BRYN MAWR	1
117+08.86	3.68	RT	BRYN MAWR	1
117+94.85	6.80	LT	BRYN MAWR	1
120+52.53	4.10	RT	BRYN MAWR	1
			TOTAL:	66

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE DESCRIPTION	CENTERLINE				PROPOSED RIM ELEVATION	INVERTS				PIPE CONNECTIONS (Pipe No. - Pipe Size)				SHEET NO.	STRUCTURE TOP
		ALIGNMENT	STATION	OFFSET	DIR.		NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		
7200	CB TA 4 DIA T20F&G	WB HIGGINS	602+37.0	38.1	RT	655.34	--	--	--	651.35	--	--	--	7200 - DIA 12''	DRN-1	FLAT
7201	CB TA 4 DIA T20F&G	WB HIGGINS	605+33.0	24.2	RT	655.58	--	--	651.18	651.15	--	--	7210 - DIA 12''	7201 - DIA 12''	DRN-1	FLAT
7205	CB TA 4 DIA T20F&G	WB HIGGINS	608+32.0	21.8	RT	654.70	--	--	--	650.70	--	--	--	7105 - DIA 12''	DRN-1	FLAT
7206	CB TA 4 DIA T20F&G	WB HIGGINS	609+08.0	21.9	RT	655.08	--	--	--	651.08	--	--	--	7206 - DIA 12''	DRN-1	FLAT
7207	CB TA 4 DIA T20F&G	WB HIGGINS	610+56.0	22.1	RT	655.81	--	--	--	651.81	--	--	--	7207 - DIA 12''	DRN-1	FLAT
7208	CB TA 4 DIA T20F&G	WB HIGGINS	612+21.0	22.3	RT	656.69	--	--	--	652.69	--	--	--	7208 - DIA 12''	DRN-1	FLAT
7209	CB TA 4 DIA T20F&G	WB HIGGINS	613+86.0	22.3	RT	657.65	--	--	--	653.65	--	--	--	7209 - DIA 12''	DRN-1	FLAT
7210	CB TA 4 DIA T20F&G	WB HIGGINS	605+83.0	25.4	RT	655.41	--	--	--	651.41	--	--	--	7210 - DIA 12''	DRN-1	FLAT
7220	CB TA 4 DIA T20F&G	WB BRYN MAWR	122+07.0	15.6	RT	652.46	--	--	648.46	--	--	--	7220 - DIA 12''	--	DRN-2	FLAT
7221	CB TA 4 DIA T20F&G	WB BRYN MAWR	119+72.0	15.5	RT	653.18	--	--	649.08	--	--	--	7221 - DIA 12''	--	DRN-2	FLAT
7222	CB TA 4 DIA T20F&G	WB BRYN MAWR	117+73.0	15.6	RT	653.79	--	--	649.77	--	--	--	7222 - DIA 12''	--	DRN-2	FLAT
7223	CB TA 4 DIA T20F&G	WB BYRN MAWR	115+54.0	15.6	RT	654.86	--	--	650.86	--	--	--	7223 - DIA 12''	--	DRN-2	FLAT
7224	CB TA 4 DIA T20F&G	WB BRYN MAWR	106+68.0	16.0	RT	656.63	--	--	652.62	652.60	--	--	7227 - DIA 12''	7224 - DIA 12''	DRN-2	FLAT
7225	CB TA 4 DIA T20F&G	WB BRYN MAWR	104+55.0	15.8	RT	657.40	--	--	--	653.40	--	--	--	7225 - DIA 12''	DRN-2	FLAT
7226	CB TA 4 DIA T20F&G	WB BRYN MAWR	101+78.0	14.6	RT	656.89	--	--	654.10	--	--	--	7226 - DIA 12''	--	DRN-1	FLAT
7227	CB TA 4 DIA T20F&G	WB BRYN MAWR	106+83	16.0	RT	656.67	--	--	--	652.67	--	--	--	7227 - DIA 12''	DRN-2	FLAT
• 8000	CB TA 4 DIAT8G	NOISE WALL 2.1	11+47.05	5	RT	652.5	649.05	-	-	-	8000 - DIA 12''	-	-	-	PP-03	FLAT
• 8001	PRC FLAR END SEC 12	NOISE WALL 2.1	11+30.03	8.6	LT	-	-	648.81	-	-	-	8000 - DIA 12''	-	-	PP-03	-
• 8002	CB TA 4 DIAT8G	NOISE WALL 6	607+61.00	8.1	LT	645.8	-	-	641.62	-	-	8002 - DIA 12''	-	-	PP-11	FLAT

• REFER TO NOISE WALL PLAN AND PROFILE SHEETS

CATCH BASINS TO BE ADJUSTED (60250200)

STATION	OFFSET	DIR	ALIGNMENT	EACH
595+07.87	27.65	LT	HIGGINS	1
601+35.07	43.30	RT	HIGGINS	1
618+38.29	20.31	RT	HIGGINS	1
100+07.87	23.39	RT	BRYN MAWR	1
116+64.60	15.37	LT	BRYN MAWR	1
			TOTAL:	5

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID (60250500)

STATION	OFFSET	DIR	ALIGNMENT	EACH
602+24.43	33.72	RT	HIGGINS	1
605+23.32	23.28	RT	HIGGINS	1
608+17.44	21.66	RT	HIGGINS	1
608+93.09	21.43	RT	HIGGINS	1
610+40.63	21.11	RT	HIGGINS	1
612+10.74	21.44	RT	HIGGINS	1
613+71.76	21.47	RT	HIGGINS	1
101+99.24	14.16	RT	BRYN MAWR	1
104+43.85	14.68	RT	BRYN MAWR	1
106+42.76	14.60	RT	BRYN MAWR	1
115+68.01	14.81	RT	BRYN MAWR	1
117+91.83	14.90	RT	BRYN MAWR	1
120+19.39	14.89	RT	BRYN MAWR	1
122+19.67	14.52	RT	BRYN MAWR	1
			TOTAL:	14

REFER TO NOISE WALL PLAN AND PROFILE SHEETS

STORM SEWER SCHEDULE

PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CUYD)	SHEET NO.	FROM STRUCTURE	TO STRUCTURE
7105	STORM SEW WM REQ 12	DIA 12''	13	0.50	3.0	DRN-1	7205	ES
7200	STORM SEW WM REQ 12	DIA 12''	9	1.00	2.5	DRN-1	7200	ES
7201	STORM SEW WM REQ 12	DIA 12''	6	0.50	1.7	DRN-1	7201	ES
7206	STORM SEW WM REQ 12	DIA 12''	13	0.50	2.8	DRN-1	7206	ES
7207	STORM SEW WM REQ 12	DIA 12''	13	0.50	2.9	DRN-1	7207	ES
7208	STORM SEW WM REQ 12	DIA 12''	8	0.50	2.0	DRN-1	7208	ES
7209	STORM SEW WM REQ 12	DIA 12''	12	0.50	2.8	DRN-1	7209	ES
7210	STORM SEW WM REQ 12	DIA 12''	46	0.50	11.8	DRN-1	7210	7201
7220	STORM SEW WM REQ 12	DIA 12''	9	0.50	1.9	DRN-2	7220	ES
7221	STORM SEW WM REQ 12	DIA 12''	42	0.24	9.6	DRN-2	7221	ES
7222	STORM SEW WM REQ 12	DIA 12''	15	1.00	3.3	DRN-2	7222	ES
7223	STORM SEW WM REQ 12	DIA 12''	10	1.00	2.3	DRN-2	7223	ES
7224	STORM SEW CL A 1 12	DIA 12''	23	0.50	5.7	DRN-2	7224	ES
7225	STORM SEW CL A 1 12	DIA 12''	9	1.00	2.1	DRN-2	7225	ES
7226	STORM SEW CL A 1 12	DIA 12''	19	0.44	2.3	DRN-1	7226	ES
7227	STORM SEW CL A 1 12	DIA 12''	11	0.50	2.6	DRN-2	7227	7224
8000	STORM SEWER CL A 1 12	DIA 12''	19	1.00	9	PP-03	8000	8001
8002	STORM SEWER CL A 1 12	DIA 12''	73	2.5	43	PP-11	8002	ES

ES = EXISTING STRUCTURE

INLETS TO BE ADJUSTED (60260100)

STATION	OFFSET	DIR	ALIGNMENT	EACH
578+36.41	25.58	LT	HIGGINS	1
588+32.12	23.90	LT	HIGGINS	1
591+22.70	25.92	LT	HIGGINS	1

MANHOLES TO BE ADJUSTED (60255500)

STATION	OFFSET	DIR	ALIGNMENT	EACH
618+48.99	55.12	LT	HIGGINS	1
619+16.96	36.07	LT	HIGGINS	1
100+14.03	26.99	RT	BRYN MAWR	1
114+02.23	27.64	LT	BRYN MAWR	1
			TOTAL:	4

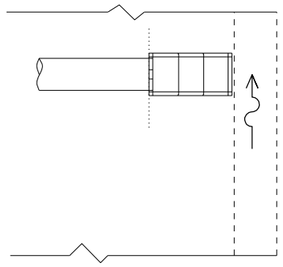
STORM SEWERS TO BE CLEANED 10" (X5537700)

STA FROM	OFFSET	STA TO	OFFSET	LENGTH (FT)
602+24.43	33.72	602+24.50	-23.34	57
605+23.32	23.28	605+23.68	19.43	4
605+23.68	19.43	605+24.37	-27.19	47
608+17.44	21.66	608+09.72	-14.86	35
608+93.09	21.43	608+78.32	-14.30	44
610+40.63	21.11	610+24.68	-23.62	47
612+10.74	21.44	611+98.98	-23.59	47
613+71.76	21.47	613+59.97	-23.71	47
101+99.48	14.28	101+99.40	5.84	10
101+99.40	5.84	101+99.82	-22.95	29
104+43.84	14.68	104+31.66	-22.70	33
106+42.93	14.62	106+64.06	-13.33	35
115+68.01	14.81	115+75.98	2.24	15
117+91.83	14.90	117+91.84	3.78	8
120+18.39	14.89	120+16.90	4.05	11
122+19.67	14.52	122+19.67	4.11	10
			TOTAL:	479

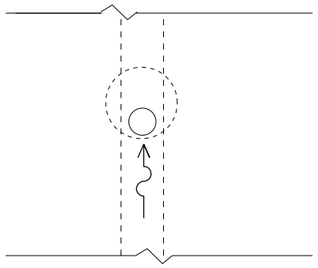
NOTE:

1) FOR ADJUSTMENT AND STORM SEWER CLEANING PLAN, SEE REMOVAL PLAN SHEETS, REM-01 TO REM-03.

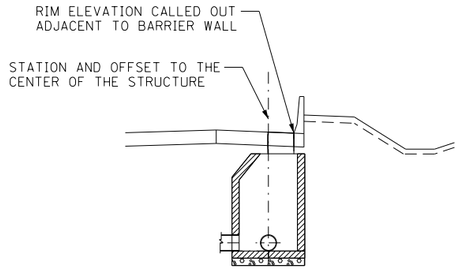
DRN–03



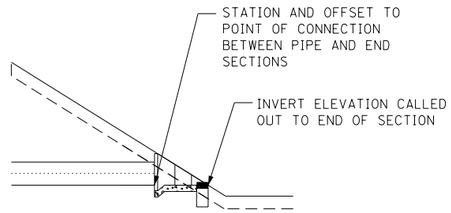
PLAN VIEW
CONCRETE END SECTION



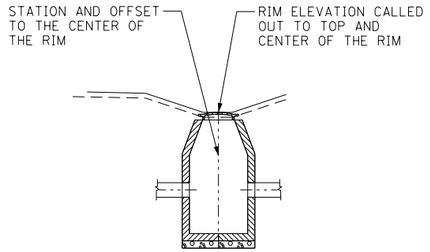
PLAN VIEW
CATCH BASIN IN SWALE



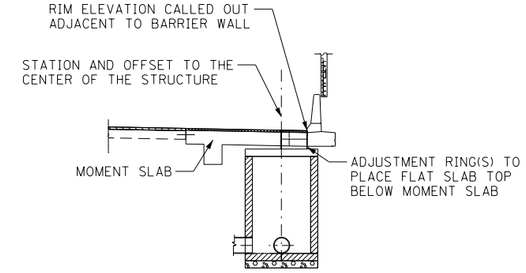
SECTION
INLET OR CATCH BASIN IN SHOULDER WITH
CONCRETE BARRIER WALL



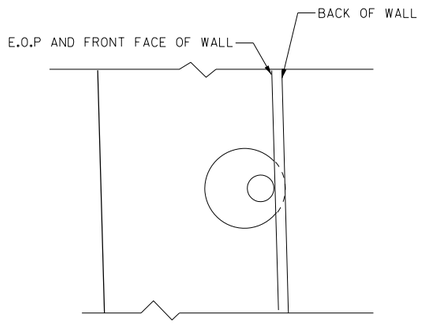
ELEVATION
CONCRETE END SECTION



ELEVATION
CATCH BASIN IN SWALE BEHIND NOISE WALL



SECTION
INLET OR CATCH BASIN IN SHOULDER WITH
MOMENT SLAB AND CONCRETE BARRIER WALL



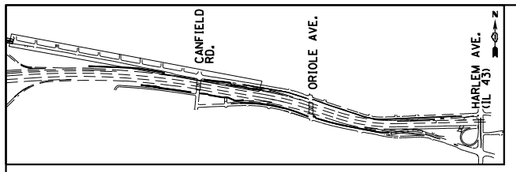
PLAN VIEW
INLET OR CATCH BASIN WITH CONCRETE
BARRIER WALL

DRN-04

exp U.S. Services Inc. Chicago, IL. BUILDINGS. EARTH & ENVIRONMENT. ENERGY. INDUSTRIAL. INFRASTRUCTURE. SUSTAINABILITY	USER NAME = $USER$	DESIGNED HDU	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**I-90 NOISE WALLS FROM CUMBERLAND AVE TO HARLEM AVE STATION, OFFSET AND RIM ELEVATION DETAILS**
		DRAWN HDU	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED SH	REVISED -		SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.
	PLOT DATE = 8-14-2017	DATE 8/21/2017	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	121
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILEL$



SIGN LEGEND

WB-HG-TS-01 (REL)

- DIRECTION OF TRAFFIC: WB-WESTBOUND
- ROADWAY: HG - HIGGINS RD; BR - BRYN MAWR AVE
- ACTION: NEW - NEW PROPOSED; REM - REMOVED; REL - RELOCATED
- SIGN PANEL NUMBER
- MOUNTING TYPE: WP -WOOD POST; TS - TELESCOPING STEEL; LP - LIGHT POLE; BW - BARRIER WALL MOUNTED

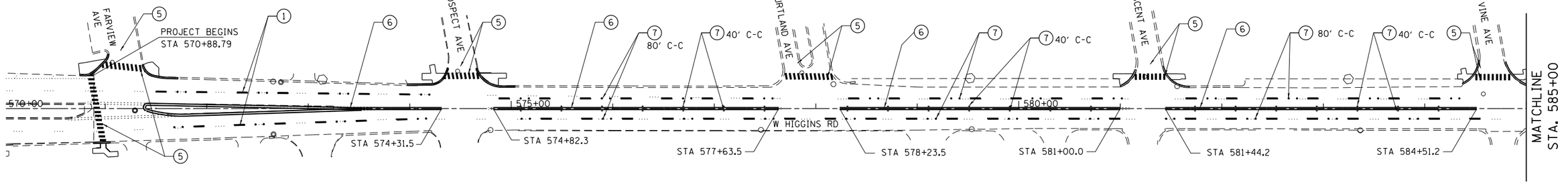
PAVEMENT MARKING LEGEND

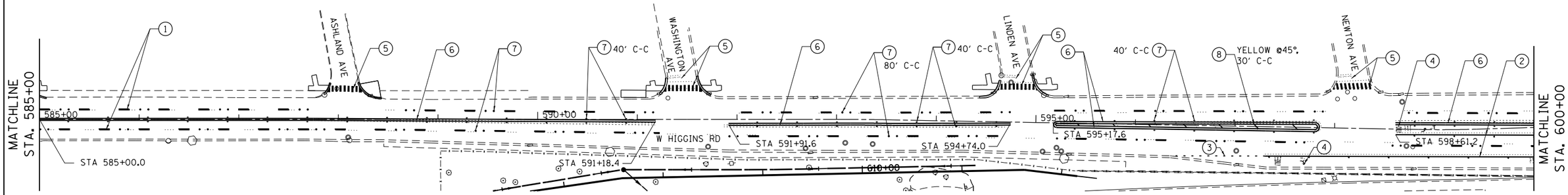
1. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE 10' DASH-30' SKIP
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE LANE LINE
3. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE 2' DASH, 6' SKIP
4. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24'' WHITE
6. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' DOUBLE CENTERLINE
7. RAISED REFLECTIVE PAVEMENT MARKER
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12''

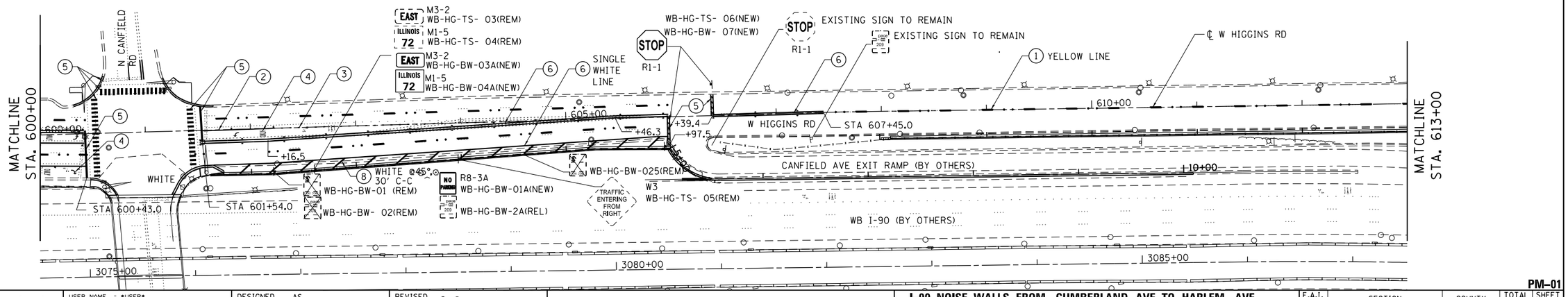
N

0' 50' 100'

SCALE: 1" = 50'



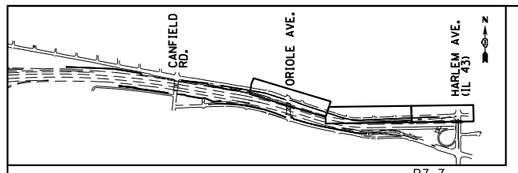




PM-01

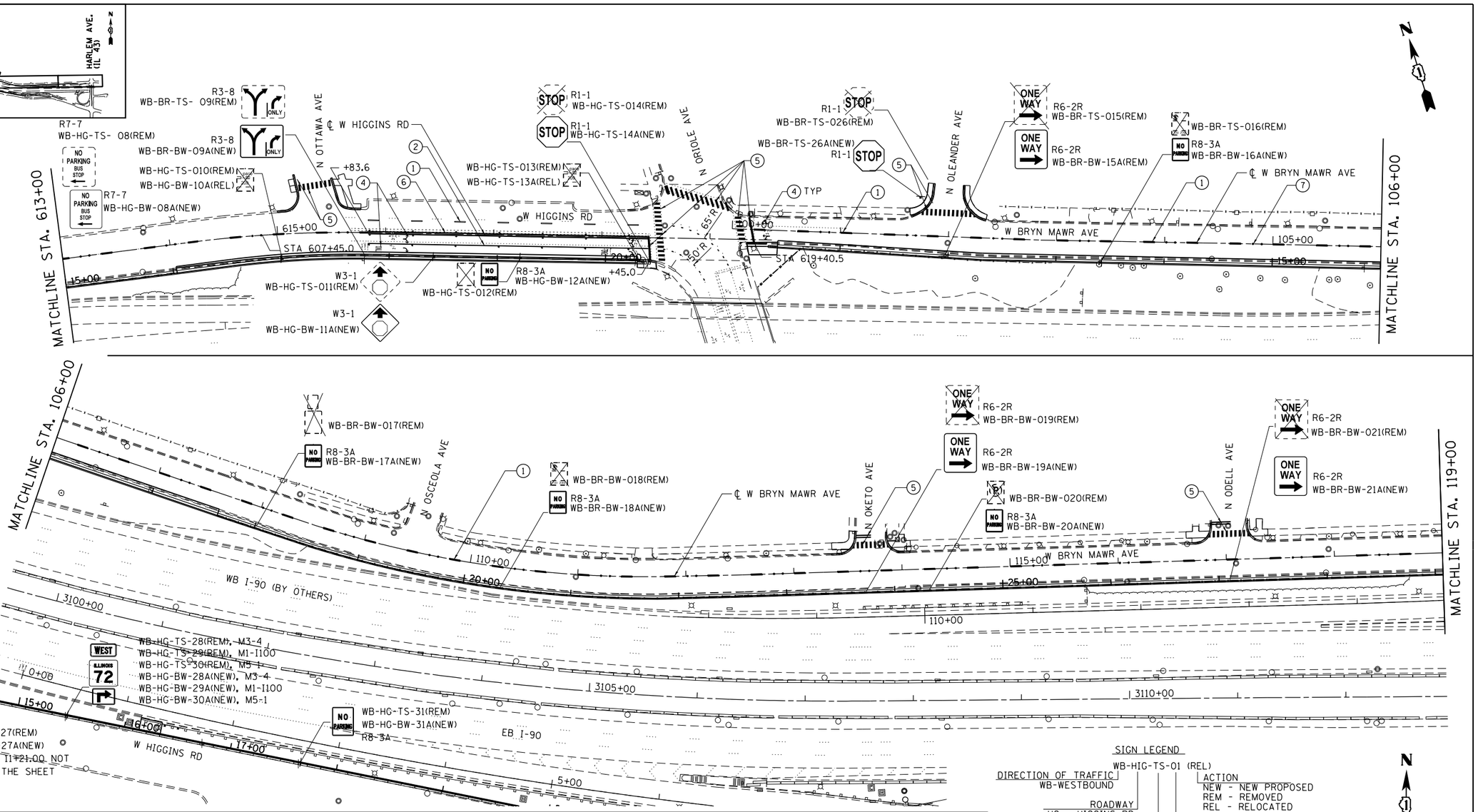
AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE. PAVEMENT MARKING & SIGNING PLAN					
USER NAME = $USER$	DESIGNED	AS	REVISED - -			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN	MD	REVISED -			90	(1517 & 1415) I-14	COOK	353	122
PLOT SCALE = $SCALE$	CHECKED		REVISED -						CONTRACT NO. 60Y40	
PLOT DATE = $DATE$	DATE	8/21/2017	REVISED -		SCALE: 1'' = 50'	SHEET NO. 1 OF 2 SHEETS	STA. 570+00.00 TO STA. 613+00.00		ILLINOIS	FED. AID PROJECT

FILE NAME = $FILEL$



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE 10' DASH-30' SKIP
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
3. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE 2' DASH, 6' SKIP
4. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
6. THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE CENTERLINE
7. RAISED REFLECTIVE PAVEMENT MARKER
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12"



SIGN LEGEND

WB-HG-TS-01 (REL)

- DIRECTION OF TRAFFIC: WB-WESTBOUND
- ROADWAY: HG - HIGGINS RD; BY - BRYN MAWR AVE
- ACTION: NEW - NEW PROPOSED; REM - REMOVED; REL - RELOCATED
- SIGN PANEL NUMBER
- MOUNTING TYPE: WP -WOOD POST; TS - TELESCOPING STEEL; LP - LIGHT POLE; BR - BARRIER WALL MOUNTED

N

PM-02

AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515	USER NAME = mkirby	DESIGNED AS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE. PAVEMENT MARKING & SIGNING PLAN
		DRAWN MD	REVISED -		
	PLOT SCALE = 2.00 ' / in.	CHECKED	REVISED -		
	PLOT DATE = 8/16/2017	DATE 8/21/2017	REVISED -		SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. 613+00.00 TO STA. 125+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	123
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-pmk2.dgn

SIGNING REMOVAL-SCHEDULE OF QUANTITIES								72400310	73700100
SIGN DESIGNATION	STATION	OFFSET	LOCATION	PANEL LEGEND DESCRIPTION	SIGN SIZE		PANEL AREA	REMOVE SIGN PANEL-TYPE 1	REMOVE GROUND MOUNTED SIGN SUPPORT
							SQ FT	SQ FT	EACH
WB-HG-BW-01_(REM)	602+21	RT -	HIGGINGS RD	NO PARKING	1.5	2	3	3	-
WB-HG-BW-_02(REM)	602+21	RT	HIGGINGS RD	PACE STOP	1.5	2	3	3	-
WB-HG-TS-_03(REM)	602+60	RT	HIGGINGS RD	M3-2	2	1	2	2	1
WB-HG-TS-_04(REM)	602+60	RT	HIGGINGS RD	M1-5	2	2	4	4	1
WB-HG-TS-_05(REM)	603+97	RT	HIGGINGS RD	W3 SPECIAL	3	3	9	9	1
WB-HG-TS-_08(REM)	614+00	RT	HIGGINGS RD	R7-7	1	1.5	1.5	1.5	1
WB-BR-TS-_09(REM)	615+81	RT	HIGGINGS RD	R3-8	5	2.5	12.5	12.5	1
WB-HG-TS-010(REM)	615+00	RT	HIGGINGS RD	PACE STOP	1.5	2	3	3	1
WB-HG-TS-011(REM)	616+45	RT	HIGGINGS RD	W3-1	2.5	2.5	6.25	6.25	1
WB-HG-TS-012(REM)	617+25	RT	HIGGINGS RD	NO PARKING	1.5	2	3	3	1
WB-HG-TS-013(REM)	618+35	RT	HIGGINGS RD	PACE STOP	1.5	2	3	3	1
WB-HG-TS-014(REM)	618+46	RT	HIGGINGS RD	R1-1	2.5	2.5	6.25	6.25	1
WB-BR-TS-015(REM)	102+00	RT	BRYN MAWR	R6-2R	2	2.5	5	5	1
WB-BR-TS-016(REM)	103+41	RT	BRYN MAWR	NO PARKING	1.5	2	3	3	1
WB-BR-BW-017(REM)	108+00	RT	BRYN MAWR	UNKNOWN	2	2	4	4	-
WB-BR-BW-018(REM)	110+32	RT	BRYN MAWR	NO PARKING	1.5	2	3	3	-
WB-BR-BW-019(REM)	113+66	RT	BRYN MAWR	R6-2R	2	2.5	5	5	-
WB-BR-BW-020(REM)	114+25	RT	BRYN MAWR	NO PARKING	1.5	2	3	3	-
WB-BR-BW-021(REM)	117+00	RT	BRYN MAWR	R6-2R	2	2.5	5	5	-
WB-BR-BW-022(REM)	123+22	RT	BRYN MAWR	M3-4	3	1.5	4.5	4.5	-
WB-BR-BW-023(REM)	123+22	RT	BRYN MAWR	M1-1	3	3	9	9	-
WB-BR-BW-024(REM)	123+22	RT	BRYN MAWR	M6-2	2.5	1.75	4.375	4.375	-
WB-HG-BW-025(REM)	604+61	RT	HIGGINGS RD	NO PARKING	1.5	2	3	3	-
WB-BR-TS-026(REM)	101+78	LT	BRYN MAWR	R1-1	2.5	2.5	6.25	6.25	1
WB-HG-TS-27(REM)	11+21	BASELINE	HIGGINGS RD	R3-8	5	2.5	12.5	12.5	1
WB-HG-TS-28(REM)	15+45	BASELINE	HIGGINGS RD	M3-4	2	1	2	2	1
WB-HG-TS-29(REM)	15+45	BASELINE	HIGGINGS RD	M1-I100	2	2.17	4.34	4.34	
WB-HG-TS-30(REM)	15+45	BASELINE	HIGGINGS RD	M5-1	1.75	1.25	2.19	2.1875	
WB-HG-TS-31(REM)	17+65	BASELINE	HIGGINGS RD	R8-3A	1.5	2	3	3	1
							TOTAL	136	16

SIGNING PAY ITEM NOTES

1. EXISTING SIGNS THAT NEED TO BE REUSE, WILL BE PAID AS:

   FIRST REMOVAL:
   REMOVE SIGN PANEL ASSEMBLY OR TYPE 1, TYPE 2 OR TYPE 3, AS CORRESPONDS.
   PAY FOR EXISTING SUPPORT REMOVAL
   PAY FOR EXISTING FOUNDATION REMOVAL

   SECOND INSTALLATION:
   RELOCATE SING PANEL TYPE 1, TYPE 2 OR TYPE 3, AS CORRESPONDS
   PAY FOR THE SUPPORTS

SGN-01

AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

USER NAME = $USER$	DESIGNED AS	REVISED - -
	DRAWN MD	REVISED -
PLOT SCALE = $SCALE$	CHECKED	REVISED -
PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SIGNING SCHEDULE

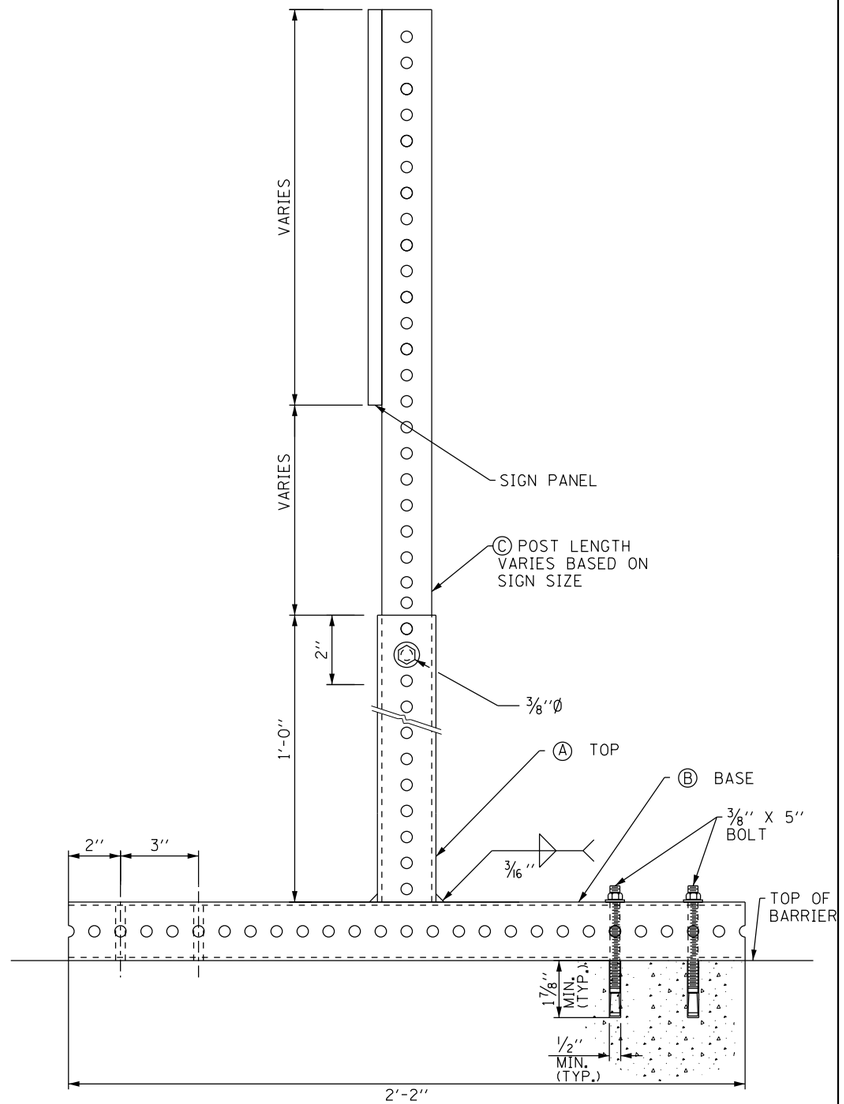
SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	124
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = $FILE$

SIGNING PROPOSED-SCHEDULE OF QUANTITIES

SIGN DESIGNATION	STATION	OFFSET	LOCATION	DESCRIPTION	SIGN SIZE		PANEL AREA	72000100 SIGN PANEL, TYPE 1	72400710 RELOCATE SIGN PANEL -TYPE 1	72800100 TELESCOPING STEEL SIGN SUPPORT	X7330064 SIGN SUPPORT SPECIAL
							SQ FT	SQ FT	SQ FT	FOOT	EACH
WB-HG-BW-01A(NEW)	602+21	RT -	HIGGINGS RD	R8-3A	1.5	2	3	3		-	1
WB-HG-BW-2A(REL)	602+21	RT	HIGGINGS RD	PACE STOP	1.5	2	3		3	-	1
WB-HG-BW-03A(NEW)	602+60	RT	HIGGINGS RD	M3-2	2	1	2	2		-	1
WB-HG-BW-04A(NEW)	602+60	RT	HIGGINGS RD	M1-5	2	2	4	4		-	1
WB-HG-TS-_06(NEW)	606+40	LT	HIGGINGS RD	R1-1	2.5	2.5	6.25	6.25		14.5	
WB-HG-BW-_07(NEW)	605+94	RT	HIGGINGS RD	R1-1	2.5	2.5	6.25	6.25		-	1
WB-HG-BW-08A(NEW)	614+00	RT	HIGGINGS RD	R7-7	1	1.5	1.5	1.5		13.5	
WB-BR-BW-09A(NEW)	615+81	RT	HIGGINGS RD	R3-8	2.5	2.5	6.25	6.25		-	1
WB-HG-BW-10A(REL)	615+00	RT	HIGGINGS RD	PACE STOP	1.5	2	3		3	-	1
WB-HG-BW-11A(NEW)	616+45	RT	HIGGINGS RD	W3-1	2.5	2.5	6.25	6.25		-	1
WB-HG-BW-12A(NEW)	617+25	RT	HIGGINGS RD	R8-3A	1.5	2	3	3		-	1
WB-HG-TS-13A(REL)	618+35	RT	HIGGINGS RD	PACE STOP	1.5	2	3		3	14	
WB-HG-TS-14A(NEW)	618+46	RT	HIGGINGS RD	R1-1	2.5	2.5	6.25	6.25		14.5	
WB-BR-BW-15A(REM)	102+00	RT	BRYN MAWR	R6-2R	2	2.5	5	5		-	1
WB-BR-BW-16A(NEW)	103+41	RT	BRYN MAWR	R8-3A	1.5	2	3	3		-	1
WB-BR-BW-17A(NEW)	108+00	RT	BRYN MAWR	R8-3A	1.5	2	3	3		-	1
WB-BR-BW-18A(NEW)	110+32	RT	BRYN MAWR	R8-3A	1.5	2	3	3		-	1
WB-BR-BW-19A(NEW)	113+66	RT	BRYN MAWR	R6-2R	2	2.5	5	5		-	1
WB-BR-BW-20A(NEW)	114+25	RT	BRYN MAWR	R8-3A	1.5	2	3	3		-	1
WB-BR-BW-21A(NEW)	117+00	RT	BRYN MAWR	R6-2R	2	2.5	5	5		-	1
WB-BR-TS-22A(NEW)	123+22	RT	BRYN MAWR	M3-4	3	1.5	4.5	4.5		13.5	
WB-BR-TS-23A(NEW)	123+22	RT	BRYN MAWR	M1-1	3	3	9	9		-	1
WB-BR-TS-24A(NEW)	123+22	RT	BRYN MAWR	M6-2	2.5	1.75	4.375	4.375		-	1
WB-BR-TS-26A(NEW)	101+72	LT	BRYN MAWR	R1-1	2.5	2.5	6.25	6.25		14.5	
WB-HG-BW-27A(NEW)	11+21	BASELINE	HIGGINGS RD	R3-8	2.5	2.5	6.25	6.25		-	1
WB-HG-BW-28A(NEW)	15+45	BASELINE	HIGGINGS RD	M3-4	2	1	2	2			1
WB-HG-BW-29A(NEW)	15+45	BASELINE	HIGGINGS RD	M1-1100	2	2.17	4.34	4.34			
WB-HG-BW-30A(NEW)	15+45	BASELINE	HIGGINGS RD	M5-1	1.75	1.25	2.19	2.1875			
WB-HG-BW-31A(NEW)	17+65	BASELINE	HIGGINGS RD	R8-3A	1.5	2	3	3		-	1
						TOTAL		114	9	85	21



SIGN SUPPORT SPECIAL DETAIL
FOR BARRIER WALL MOUNTED SIGNS

NOT TO SCALE

Ⓐ	2 1/4'' x 2 1/4'' x 1'-0'' (12 GA.)
Ⓑ	2 1/4'' x 2 1/4'' x 2'-2'' (12 GA.)
Ⓒ	2'' x 2'' x VARIES (12 GA.)

SGN-02

AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

USER NAME = mkirby	DESIGNED AS	REVISED - -
	DRAWN MD	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED	REVISED -
PLOT DATE = 8/16/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SIGNING SCHEDULE

SCALE: | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	125
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

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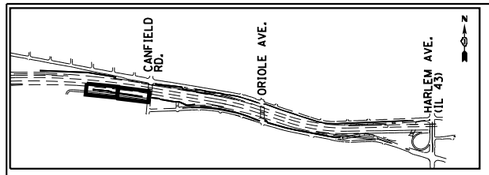


3067 3068 3069 3070+00

CTA BLUE LINE

℄ I-90

EB I-90 (BY OTHERS)

(5) CANAERTI RED CEDAR

(5) SWAMP WHITE OAK

(4) BURR OAK

(50) STAGHORN SUMAC, 3' O.C., STAGGERED ROWS, MULCHED BED

(35) RED WALL VIRGINIA CREEPER

(5) CANAERTI RED CEDAR

(3) AUTUMN SPLENDOR BUCKEYE

(1) KENTUCKY COFFEETREE

(2) CHINKAPIN OAK

(1) KENTUCKY COFFEETREE

[C] LIMITS OF IMPROVEMENTS
℄ NOISE WALL 1 STA. 10+00.00
℄ I-90 STA. 3066+50.00, 120' RT

10+00 11 12 13

MATCH LINE STA. 14+00

(41) VIRGINIA CREEPER
(41) ENGELMANII CREEPER

(3) PRINCETON SENTRY GINKO

(3) AUSTRIAN PINE, 7' HT
(2) AUSTRIAN PINE, 5' HT

(6) BALD CYPRESS

EX ROW

SERBIAN RD.

(2) SWISS STONE PINE, 7' HT.
(1) SWISS STONE PINE, 5' HT.

(42) VIRGINIA CREEPER
(42) ENGELMANII CREEPER

(49) YELLOW WALL VIRGINIA CREEPER

(25) VIRGINIA CREEPER
(25) RED WALL VIRGINIA CREEPER

OSAGE AVE.

N

0' 20' 40'
SCALE: 1" = 20'

LANDSCAPING LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)

3071 3072 3073 3074 3075+00

℄ I-90

CTA BLUE LINE

EB I-90 (BY OTHERS)

MATCH LINE STA. 14+00

(61) STAGHORN SUMAC, 3' O.C. STAGGERED ROWS, MULCHED BED

(2) BLACK HILLS SPRUCE, 6' HT
(3) BLACK HILLS SPRUCE, 5' HT

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 1 STA. 18+00.00
℄ I-90 STA. 3074+57.84, 134' RT

(33) BRILLIANT RED CHOKEBERRY, 3' O.C. STAGGERED, MULCHED BED

(1) COMMON HACKBERRY

(2) SPAETH'S ALDER

(2) SIOUXLAND POPLAR

℄ NOISE WALL 1

(2) AMERICAN HOPHORNBEAM

14 15+00 16 17 18

(2) AUTUMN SPLENDOR BUCKEYE

CANFIELD RD.

(3) BLACK HILLS SPRUCE, 6' HT
(2) BLACK HILLS SPRUCE, 5' HT

(15) VIRGINIA CREEPER
(15) RED WALL VIRGINIA CREEPER

(1) AUSTRIAN PINE, 7' HT
(3) AUSTRIAN PINE, 6' HT
(3) AUSTRIAN PINE, 5' HT

(40) VIRGINIA CREEPER
(40) RED WALL VIRGINIA CREEPER

EX ROW

(53) YELLOW WALL VIRGINIA CREEPER

SERBIAN RD.

(3) OHIO BUCKEYE

(52) VIRGINIA CREEPER
(51) ENGELMANII CREEPER

(2) COMMON HACKBERRY

ORANGE AVE.

N

0' 20' 40'
SCALE: 1" = 20'

NOTES:

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

LS-01

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopass1	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

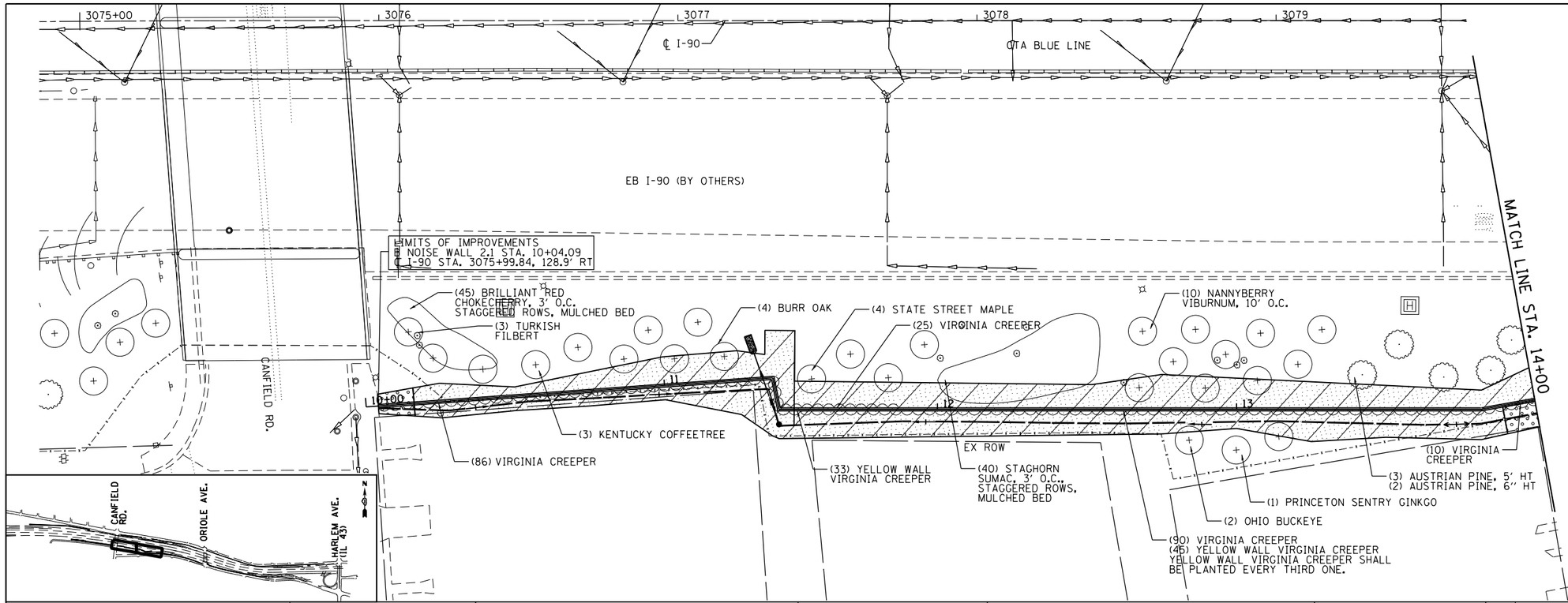
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 1

SCALE: 1" = 20' | SHEET NO. 1 OF 8 SHEETS | STA. 10+00.00 TO STA. 17+99.84

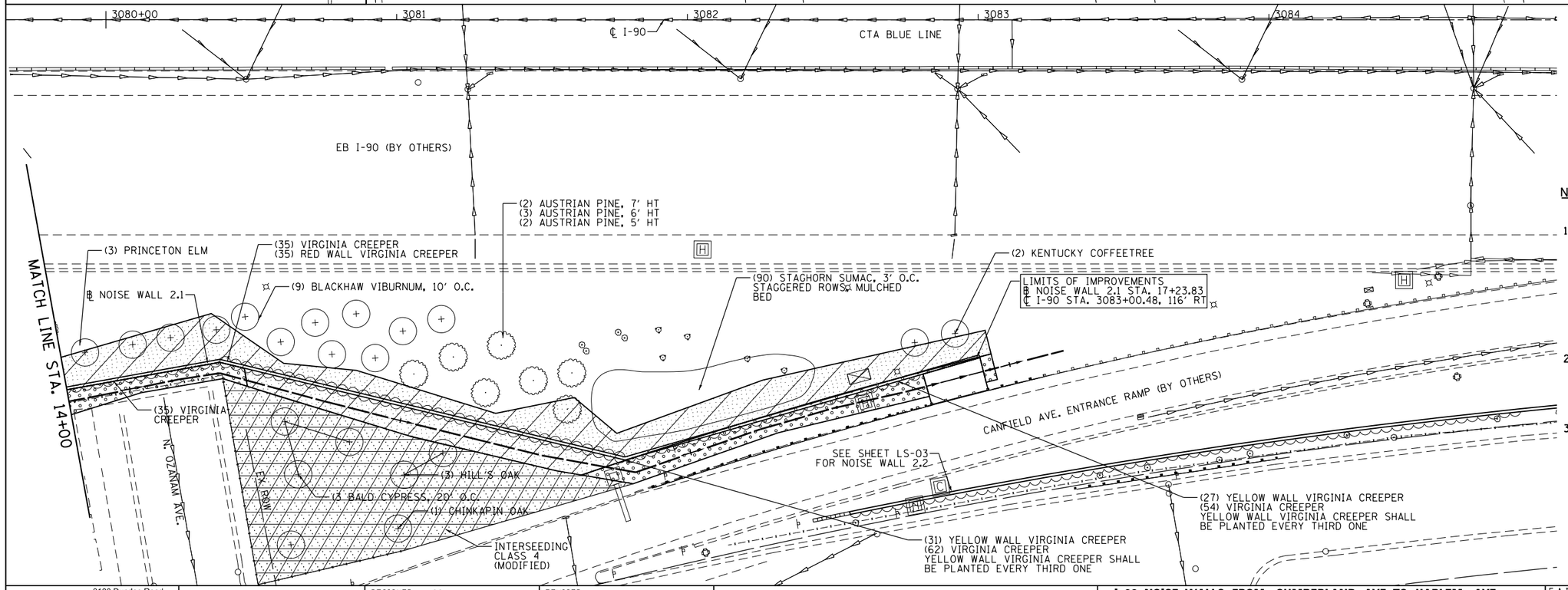
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	126
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = O:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall_04262018\D160Y40-sht-Land01.dgn



LANDSCAPING LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)
- INTERSEEDING CLASS 4 (MODIFIED)



NOTES:

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18'' O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4'' DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18'' FROM THE CLOSEST SHRUB ROW.

LS-02

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopassi	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

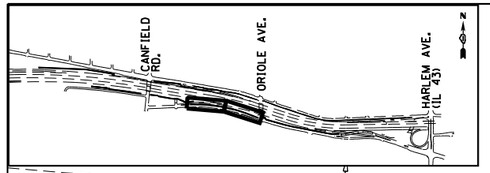
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 2.1

SCALE: 1" = 20' | SHEET NO. 2 OF 8 SHEETS | STA. 10+04.09 TO STA. 17+22.86

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	127
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = G:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall.04262018\D160Y40-sht-Land02.dgn



LANDSCAPING LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)

3086 3087 ℄ I-90 CTA BLUE LINE

EB I-90 (BY OTHERS)

CANFIELD AVE. ENTRANCE RAMP (BY OTHERS)

℄ NOISE WALL 2.2

(150) SMOOTH SUMAC, 3' O.C. STAGGERED ROWS, 3' AWAY FROM WALL, MULCH BED

MATCH LINE STA. 2205+50

2200 2200+00 2201 2202 2203 2204 2205 2205+00

EX ROW

(42) VIRGINIA CREEPER
(42) ENGELMANII CREEPER

(42) VIRGINIA CREEPER
(42) ENGELMANII CREEPER

(80) VIRGINIA CREEPER

(40) VIRGINIA CREEPER
(40) ENGELMANII CREEPER

(21) VIRGINIA CREEPER
(21) ENGELMANII CREEPER

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 2.2 STA. 2200+00.00
℄ I-90 STA. 3082+55.87, 169.7' RT

W. HIGGINS AVE.

OZARK AVE.

OVERHILL AVE.

EX ROW

0' 20' 40'
SCALE: 1" = 20'

3089 ℄ I-90 3090+00 3091

CTA BLUE LINE

EB I-90 (BY OTHERS)

MATCH LINE STA. 2205+50

NOTES:

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

0' 20' 40'
SCALE: 1" = 20'

(75) PERSIAN LILAC, 3' O.C. STAGGERED ROWS, MULCHED BED

(2) STREET KEEPER HONEYLOCUST

(3) COLORADO SPRUCE, 6' HT
(2) COLORADO SPRUCE, 7' HT

(3) SPAETH'S ALDER

(2) STATE STREET MAPLE

(50) PERSIAN LILAC, 3' O.C. STAGGERED ROWS, MULCHED BED

(1) YELLOW SWEET BUCKEYE

℄ NOISE WALL 2.2

2206 2207 2208 2209 2210 2210+00 2211

EX ROW

(20) VIRGINIA CREEPER
(20) ENGELMANII CREEPER

(80) VIRGINIA CREEPER

W. HIGGINS AVE.

(50) PERSIAN LILAC, 3' O.C. STAGGERED ROWS, MULCHED BED

(40) VIRGINIA CREEPER
(40) ENGELMANII CREEPER

(1) COLORADO SPRUCE, 7' HT
(3) COLORADO SPRUCE, 6' HT
(3) COLORADO SPRUCE, 5' HT

(42) VIRGINIA CREEPER
(42) ENGELMANII CREEPER

(83) VIRGINIA CREEPER

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 2.2 STA. 2211+10.60
℄ I-90 STA. 3093+80.00, 140.7' RT

OTTAWA AVE.

N. ORIOLE AVE.

EX ROW

LS-03

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopass1	DESIGNED GS	REVISED -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

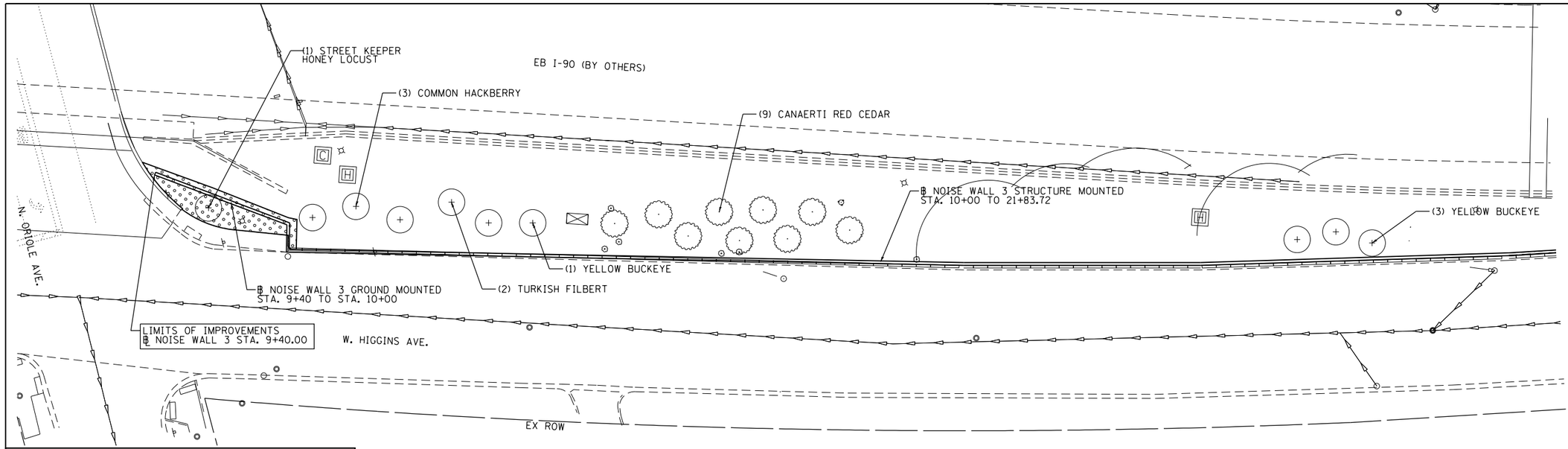
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCPAING PLAN
NOISE WALL 2.2

SCALE: 1" = 20' | SHEET NO. 3 OF 8 SHEETS | STA. 2200+00.00 TO STA. 2211+10.60

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	128
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = Q:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall_04262018\D160Y40-sht-Land03.dgn



LANDSCAPING LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)

NOTES:

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

LS-04

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopass1	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

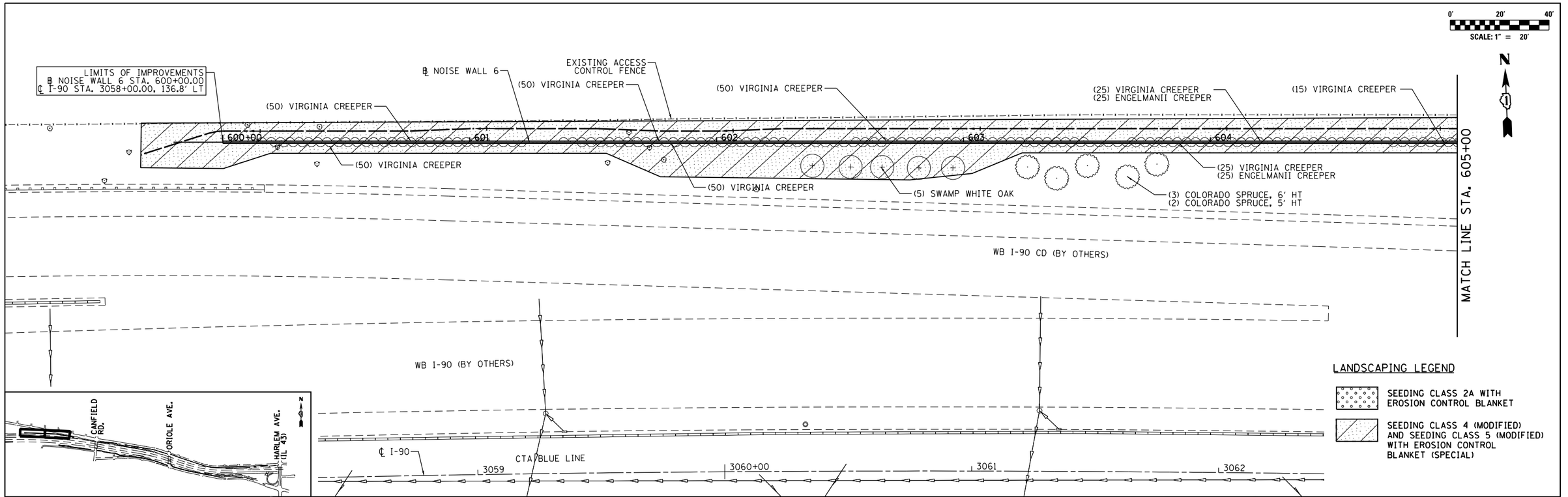
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 3

SCALE: 1" = 20' | SHEET NO. 4 OF 8 SHEETS | STA. 9+40 TO STA. 19+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	129
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = Q:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall_04262018\D160Y40-sht-Land04.dgn



NOTES:

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

LS-05

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopassi	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

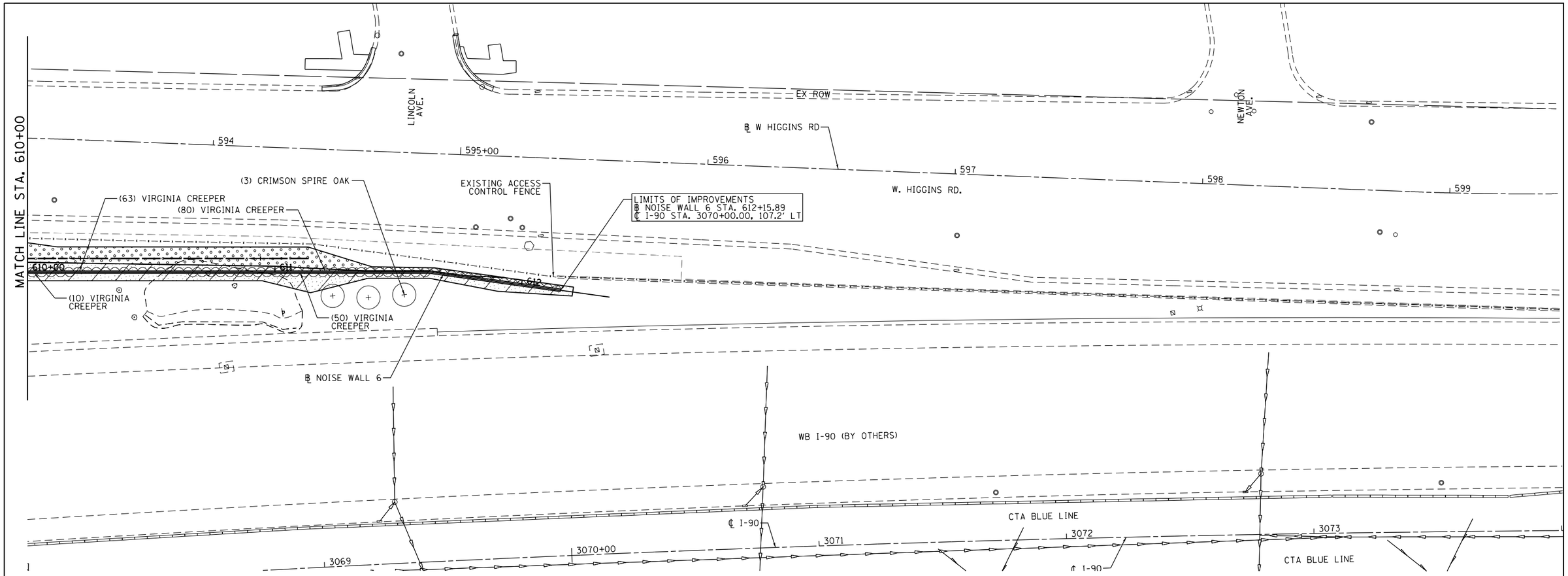
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

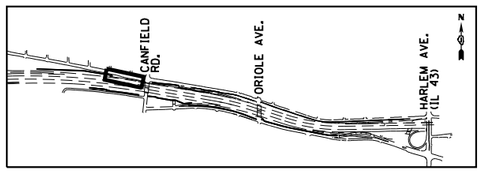
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 6 & RESURFACING

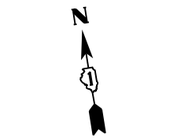
SCALE: 1" = 20' | SHEET NO. 5 OF 8 SHEETS | STA. 600+00 TO STA. 610+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	130
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

FILE NAME = Q:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall.04262018\D160Y40-sht-Land05.dgn







LANDSCAPING LEGEND

SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)

NOTES;

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

LS-06

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopassi	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 6 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 6 OF 8 SHEETS | STA. 610+00.00 TO STA. 612+15.89

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	131
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = G:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall_04262018\D160Y40-sht-Land06.dgn

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 5.3 STA. 10+08.55
℄ W HIGGINS RD STA. 608+08.55, 25.9' RT

℄ W HIGGINS RD

EX ROW

℄ NOISE WALL 5.3

608 | 609 | 610+00 | 611 | 612 | 613

SEE SHEET ESC-09
FOR NOISE WALL 5.3

W. HIGGINS RD.

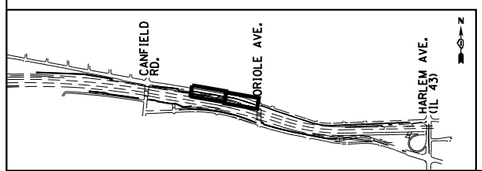
11 | 12 | 13 | 14 | 15+00

MATCH LINE STA. 613+50

CANFIELD AVE EXIT RAMP (BY OTHERS)

WB I-90 (BY OTHERS)

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 5.2 STA. 5205+08.63



N

0' 20' 40'
SCALE: 1" = 20'

LANDSCAPING LEGEND

SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

SEEDING CLASS 4 (MODIFIED) AND SEEDING CLASS 5 (MODIFIED) WITH EROSION CONTROL BLANKET (SPECIAL)

MATCH LINE STA. 613+50

EX ROW

℄ W HIGGINS RD

OTTAWA AVE.

EX ROW

EX ROW

614 | 615+00 | 616 | 617 | 618 | 619 | 620+00

W. HIGGINS RD.

N. ORIOLE AVE.

(66) STAGHORN SUMAC

℄ NOISE WALL 5.3

(25) VIRGINIA CREEPER
(25) RED WALL VIRGINIA CREEPER

(5) KENTUCKY COFFEETREE

(55) STAGHORN SUMAC

(50) VIRGINIA CREEPER

(70) STAGHORN SUMAC

(7) CANAERTI RED CEDAR

(25) VIRGINIA CREEPER
(25) REDWALL VIRGINIA CREEPER

(7) BURR OAK

(5) BURR OAK

(3) PRINCETON SENTRY GINKGO

(2) STATE STREET MAPLE

CANFIELD AVE EXIT RAMP (BY OTHERS)

WB I-90 (BY OTHERS)

LIMITS OF IMPROVEMENTS
℄ NOISE WALL 5.3 STA. 20+29.49
℄ W HIGGINS RD STA. 618+33.13, 23.4' RT

N

0' 20' 40'
SCALE: 1" = 20'

NOTES;

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN,

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

2. VIRGINIA CREEPER AND PARTNERED SPECIES ARE TO BE PLANTED ALTERNATIVELY. ALL VINES ARE PLANTED 2' O.C. ON THE MAINLINE SIDE AND 18" O.C. ON THE LOCAL SIDE.

3. ALL TREES ARE PLANTED 15' O.C. UNLESS NOTED OTHERWISE. TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

LS-07

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopassi	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

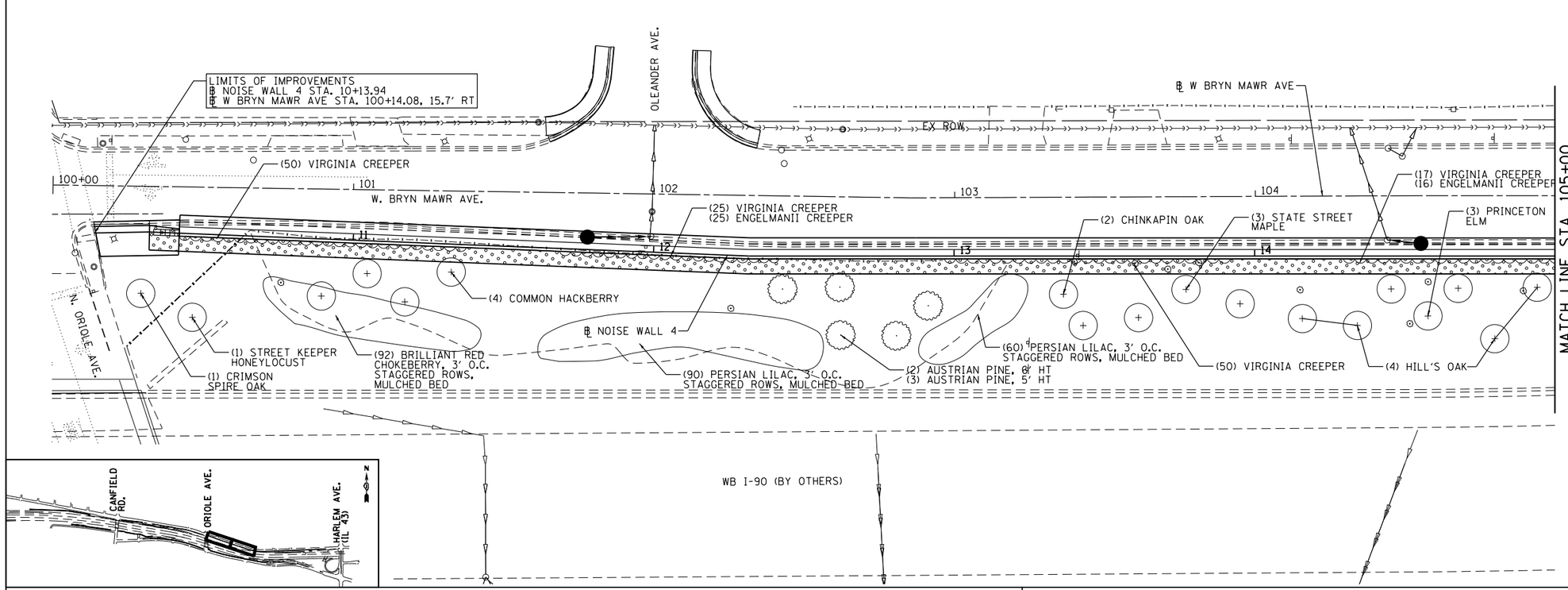
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 5.3 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 7 OF 8 SHEETS | STA. 10+00.00 TO STA. 20+20.94

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	132
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = Q:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall.04262018\D160Y40-sht-Land07.dgn



NOTES;

PERMANENT SEEDING SHALL BE:

1. A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.

   B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.

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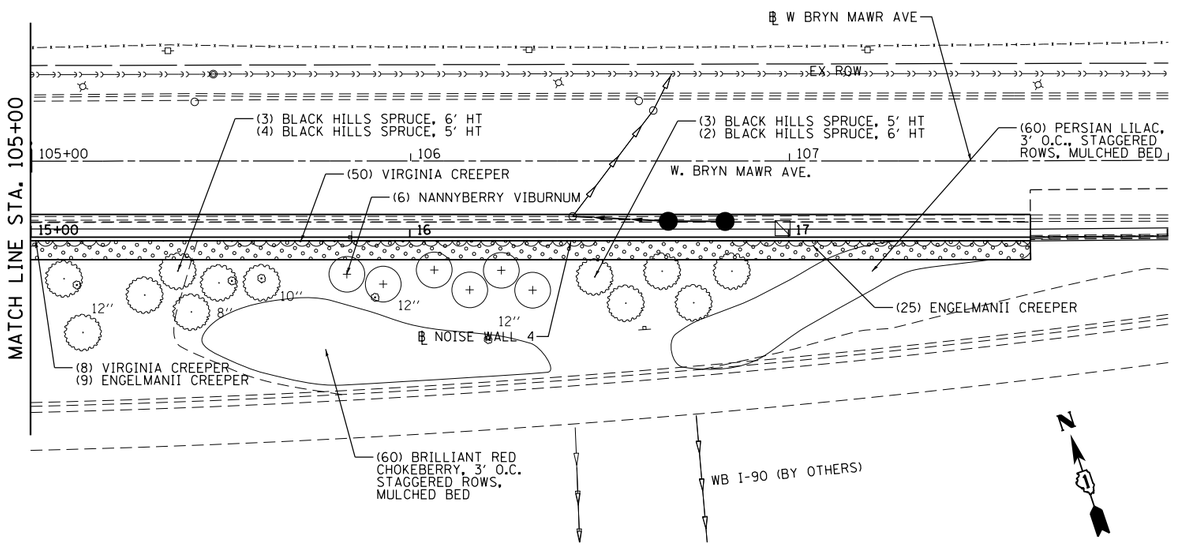
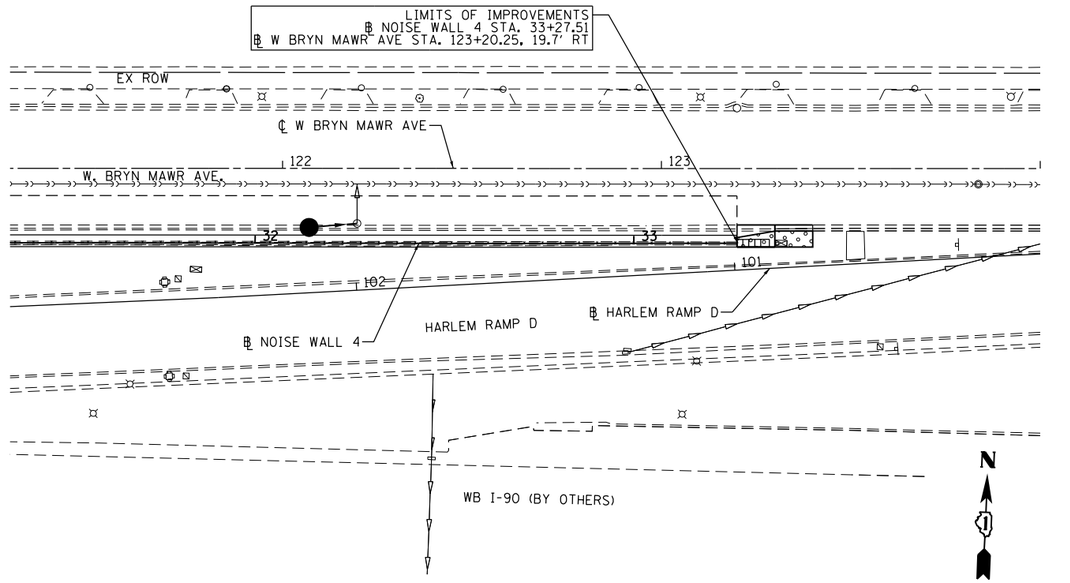




LS-08

AEG Ltd.
3100 Dundee Road, Suite 502, Northbrook, IL 60062
847.753.8020 office
847.753.8023 fax

USER NAME = kcortopassi	DESIGNED GS	REVISED - -	
	DRAWN ML, GS	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED YO	REVISED -	
PLOT DATE = 4/26/2018	DATE 8/21/2017	REVISED -	

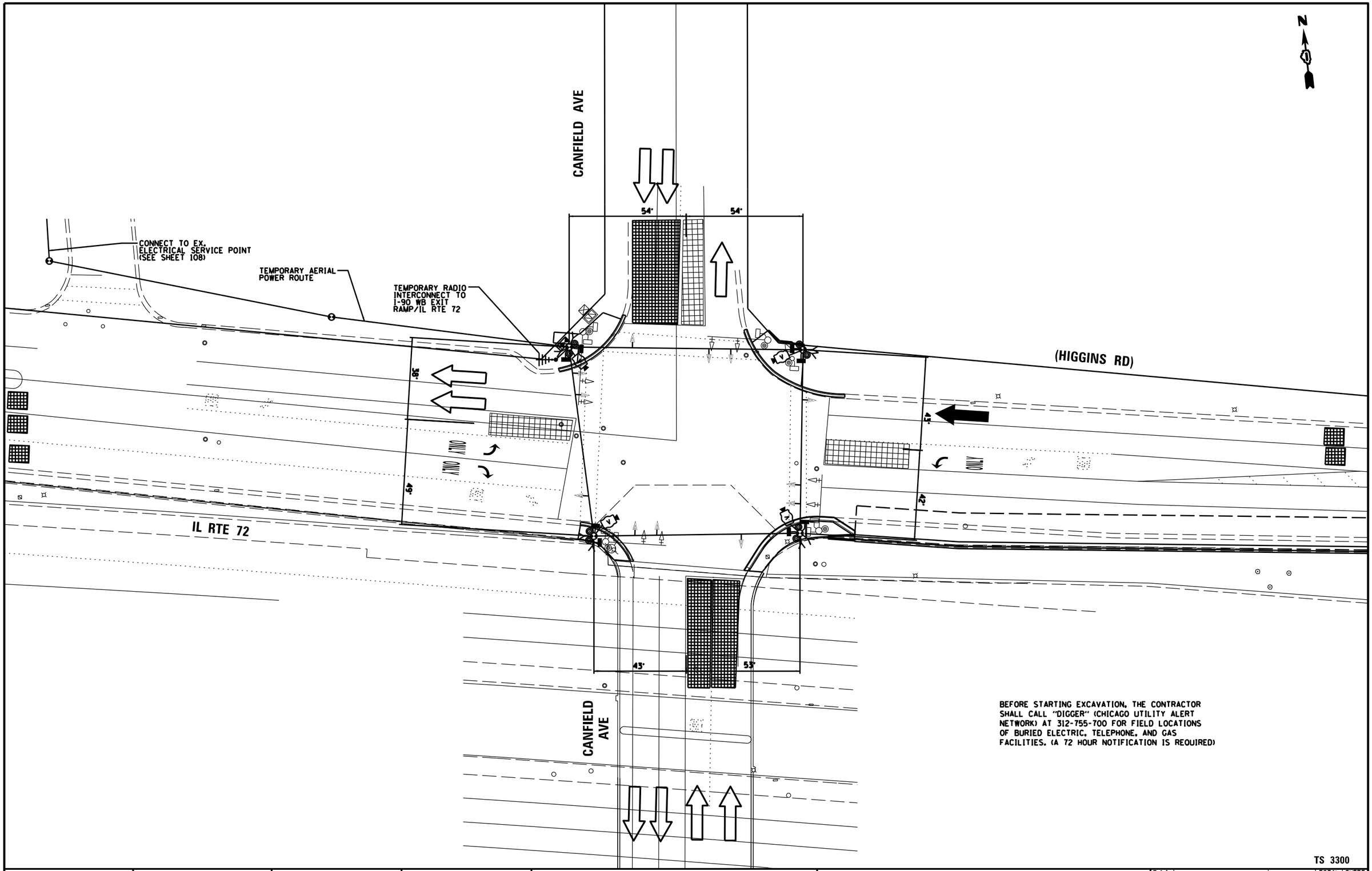
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
LANDSCAPING PLAN
NOISE WALL 4 & RESURFACING

SCALE: 1" = 20' | SHEET NO. 8 OF 8 SHEETS | STA. 10+00.00 TO STA. 20+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	133
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = G:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CAD from PW I-90 Noise wall\Export CADD from Noise Wall.04262018\D160Y40-sht-Land08.dgn



BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL "DIGGER" (CHICAGO UTILITY ALERT NETWORK) AT 312-755-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (A 72 HOUR NOTIFICATION IS REQUIRED)

TS 3300

TS SHT NO. 01

HNTB

USER NAME = $USER$	DESIGNED	REVISED -
	DRAWN	REVISED -
PLOT SCALE = $SCALE$	CHECKED	REVISED -
PLOT DATE = $DATE$	DATE	REVISED -

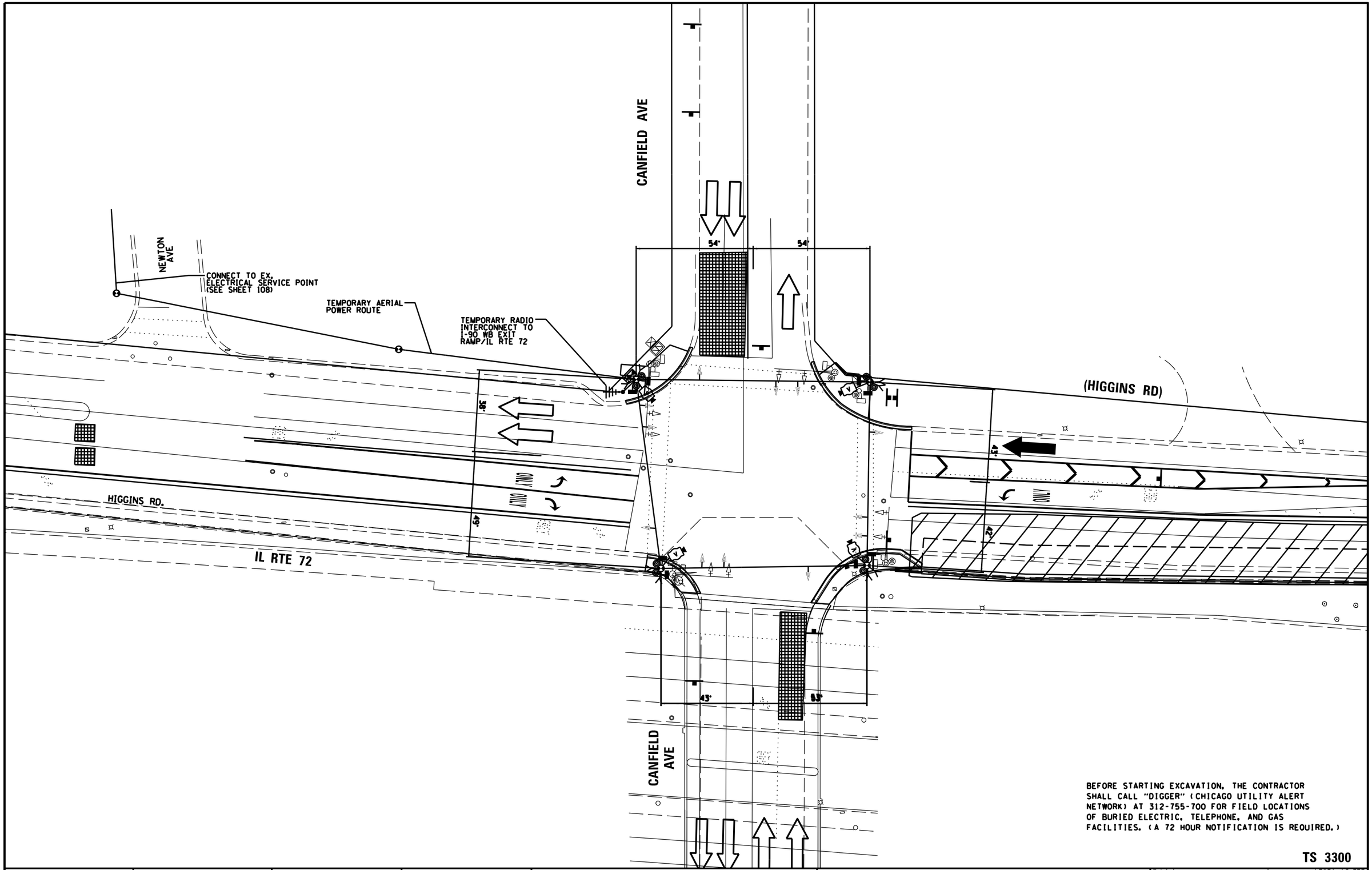
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
PRE /POST STAGE I TEMPORARY TRAFFIC SIGNAL INSTALLATION
CANFIELD AVE. AND HIGGINS RD. INTERSECTION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	134
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILEL$



BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL "DIGGER" (CHICAGO UTILITY ALERT NETWORK) AT 312-755-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (A 72 HOUR NOTIFICATION IS REQUIRED.)

TS 3300

TS SHT NO. 02

HNTB

USER NAME = $USER$	DESIGNED	REVISED -
	DRAWN	REVISED -
PLOT SCALE = $SCALE$	CHECKED	REVISED -
PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

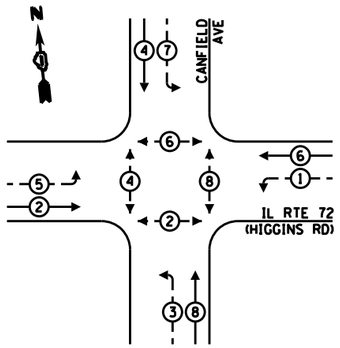
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
STAGE I TEMPORARY TRAFFIC SIGNAL INSTALLATION
CANFIELD AVE. AND HIGGINS RD. INTERSECTION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	134A
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

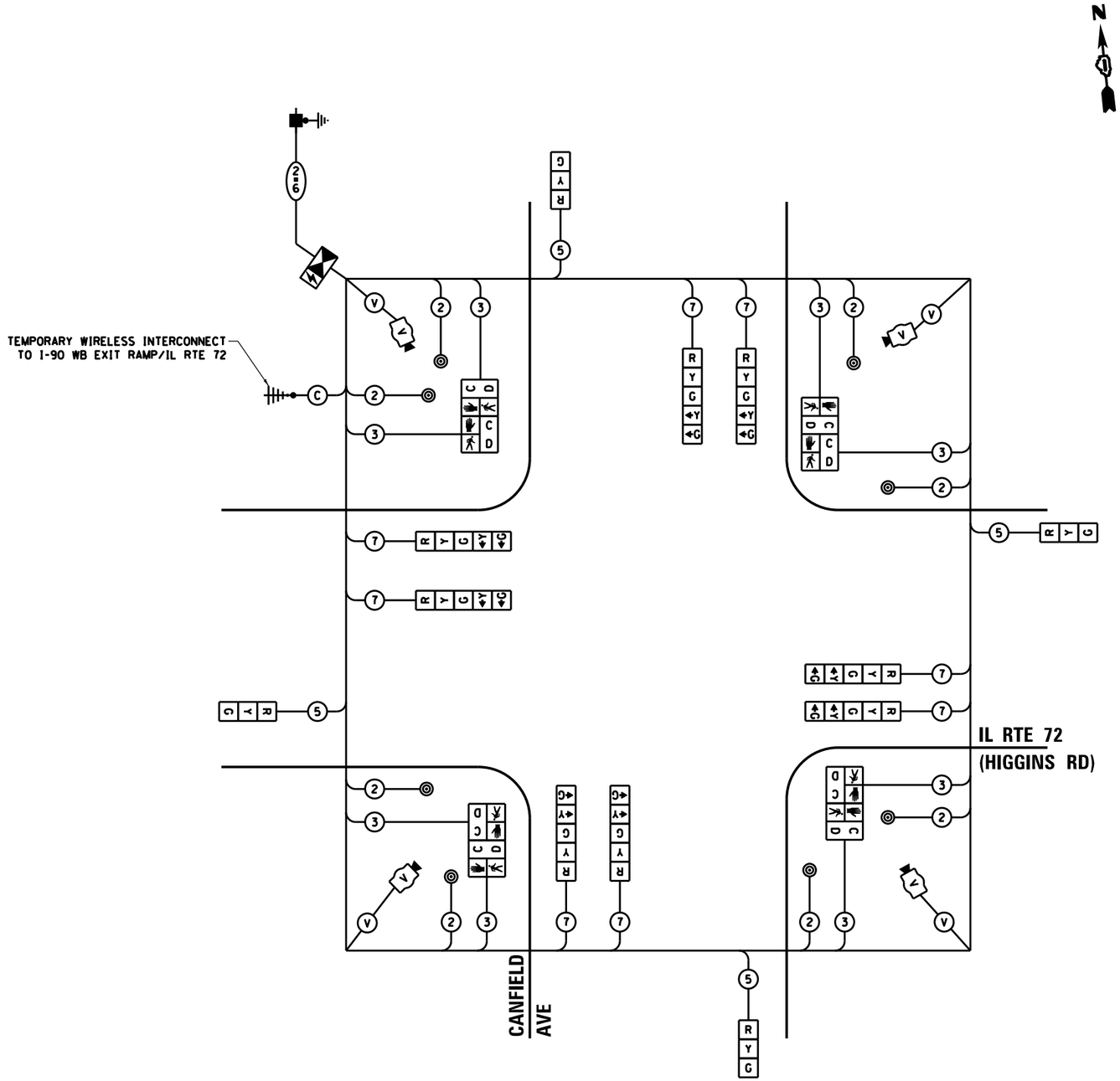
FILE NAME = $FILEL$

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP



TEMPORARY CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	100	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	285	50	-
			TOTAL =	593.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: BETTY BRULC
PHONE: 815-724-5052
COMPANY: COMED
ACCOUNT NUMBER: -----

NOTES:
1. EXISTING PERMANENT SIGNALS THAT ARE STILL IN PLACE SHALL BE BAGGED AND DISABLED WHEN THE TEMPORARY SIGNALS ARE IN OPERATION.

TS SHT NO. 03

TS 3300

HNTB

USER NAME = $USER$	DESIGNED APR	REVISED -	
	DRAWN APR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED MAM	REVISED -	
PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

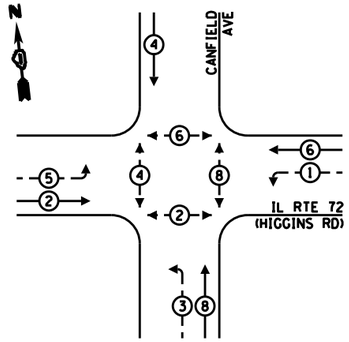
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
PRE/POST STAGE 1 TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 2 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	135
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILE$

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

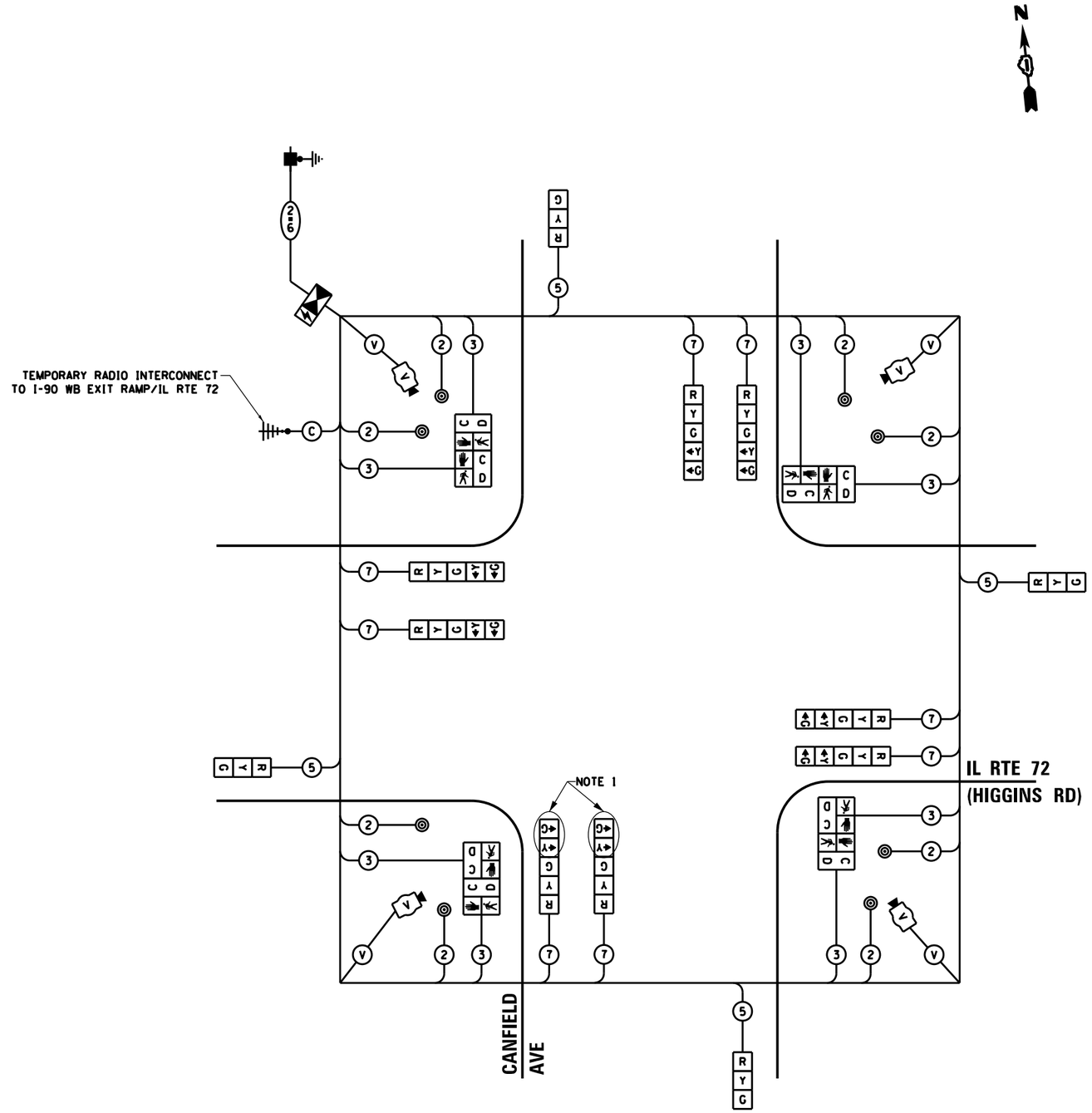
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	93.5
(YELLOW)	12	20	5	17.0
(GREEN)	12	12	45	91.8
PERMISSIVE ARROW	12	10	100	30.0
PED. SIGNAL	8	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	285	50	285.0
			TOTAL =	682.3

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS / DISTRICT 1
201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: BETTY BRULC
PHONE: 815-724-5052
COMPANY: COMED
ACCOUNT NUMBER: -----

TS SHT NO. 04



TEMPORARY CABLE PLAN
(NOT TO SCALE)

NOTES:
1. SIGNAL SECTIONS SHALL BE BAGGED AND DISABLED.
2. EXISTING PERMANENT SIGNALS THAT ARE STILL IN PLACE SHALL BE BAGGED AND DISABLED WHEN THE TEMPORARY SIGNALS ARE IN OPERATION.

TS 3300

HNTB

USER NAME = $USER$	DESIGNED APR	REVISED -	
	DRAWN APR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED MAM	REVISED -	
PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -	

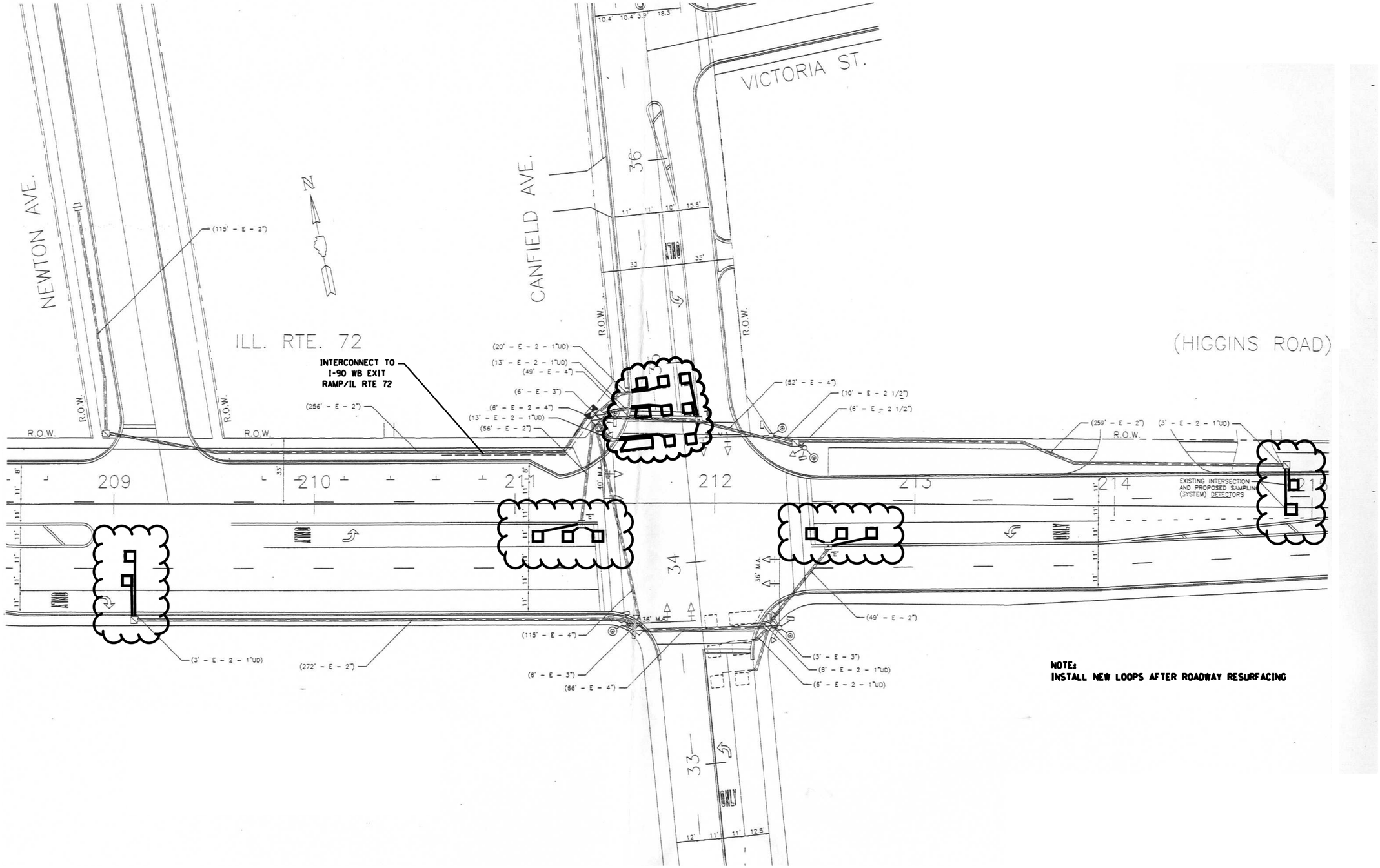
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
STAGE 1 TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 3 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	136
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

FILE NAME = $FILE$



TS 3300

TS SHT NO. 05

USER NAME = $USER$	DESIGNED APR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN APR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED MAM	REVISED -	
PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -	

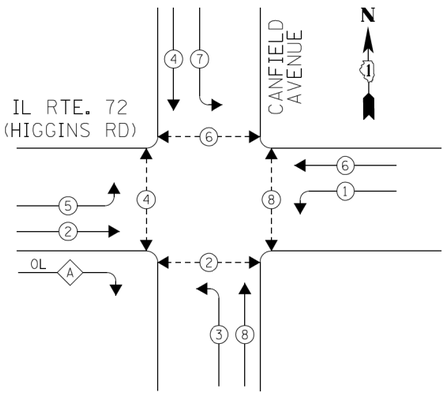
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
TRAFFIC SIGNAL PLAN

SCALE: N.T.S. | SHEET NO. 4 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	137
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILEL$

EXISTING CONTROLLER SEQUENCE

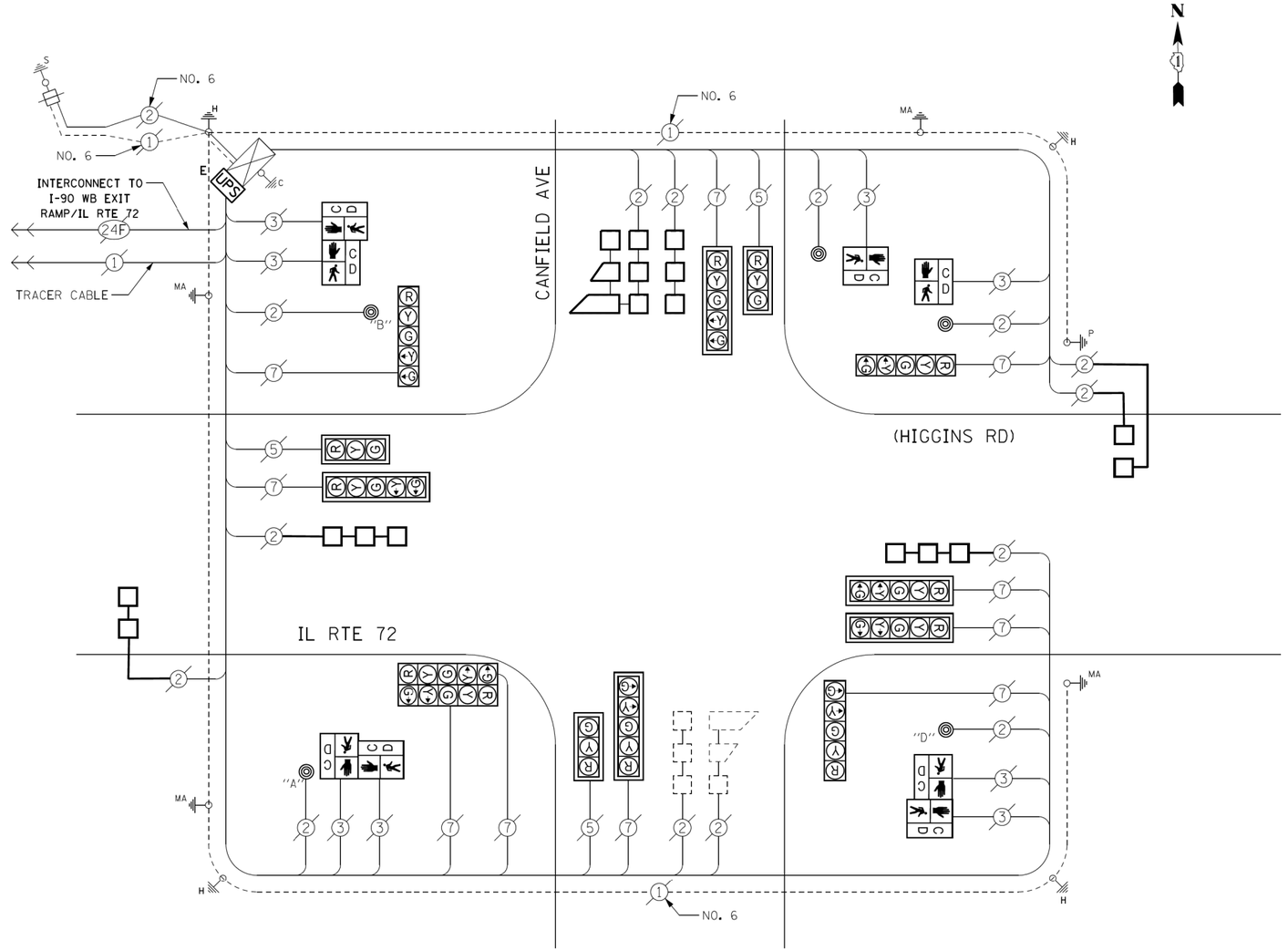


LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLTION	EACH	1
DETECTOR LOOP, TYPE I	FOOT	423
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

PUSHBUTTON NOTES

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

TS SHT NO. 06

TS 3300

HNTB

USER NAME = mamiller	DESIGNED APR	REVISED -	
	DRAWN APR	REVISED -	
PLOT SCALE = 2.00 '/ in.	CHECKED MAM	REVISED -	
PLOT DATE = 3/13/2018	DATE 8/21/2017	REVISED -	

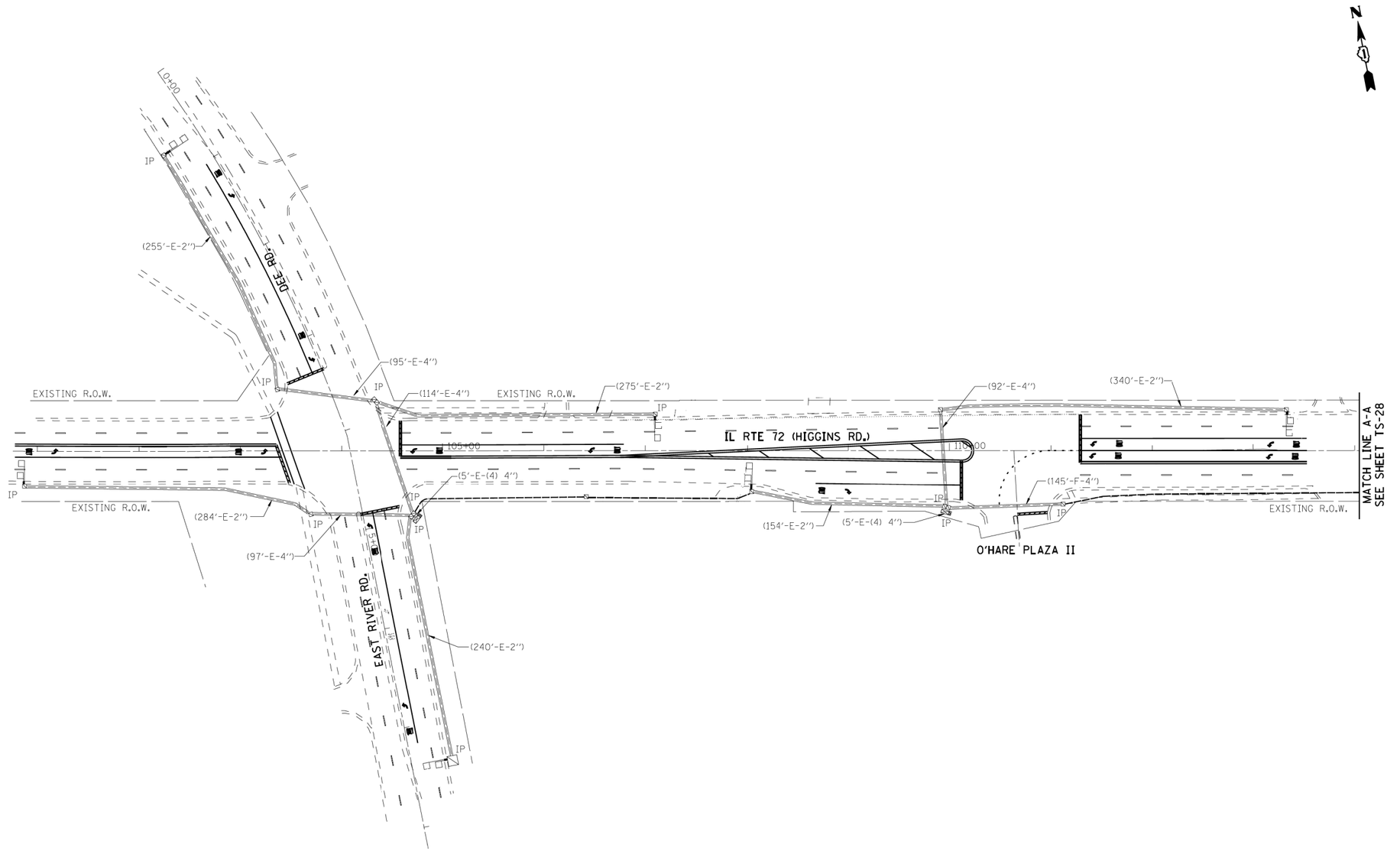
FILE NAME = D160Y40-sht-ts04.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
FINAL CABLE PLAN AND
FINAL PHASE DESIGNATION DIAGRAM

SCALE: N.T.S. | SHEET NO. 5 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	138
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		



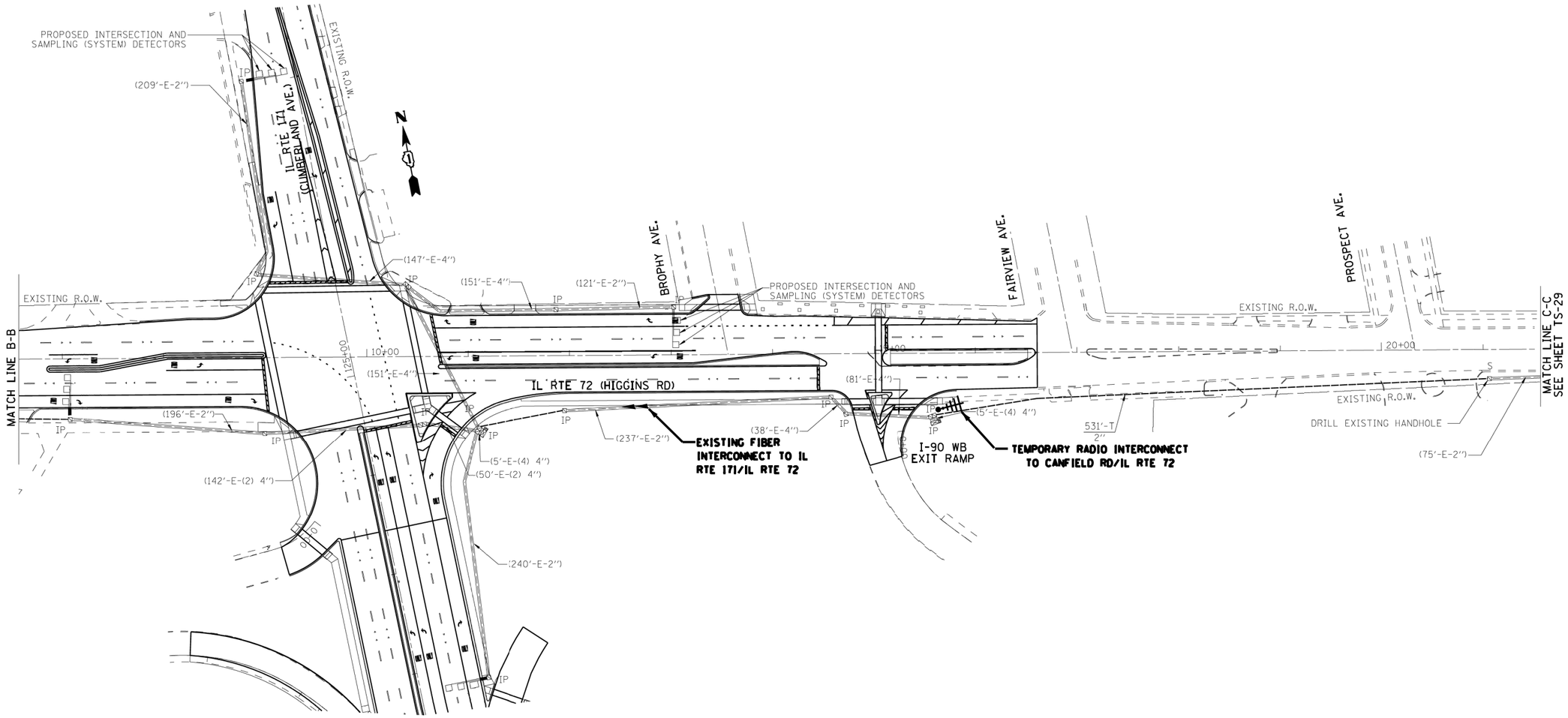
FOR INFORMATION ONLY

EAGLE 7K

HNTB	USER NAME = jblakley	DESIGNED GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN IL RTE 72 (HIGGINS RD.) DEE RD/EAST RIVER RD TO CANFIELD RD
		DRAWN GR	REVISED -		
	PLOT SCALE = 2.00 ' / in.	CHECKED CG	REVISED -		
	PLOT DATE = 8/16/2017	DATE 8/21/2017	REVISED -		SCALE: 1"=50' | SHEET NO. 6 OF 9 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	139
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

FILE NAME = D160Y40-sht-ts04A.dgn



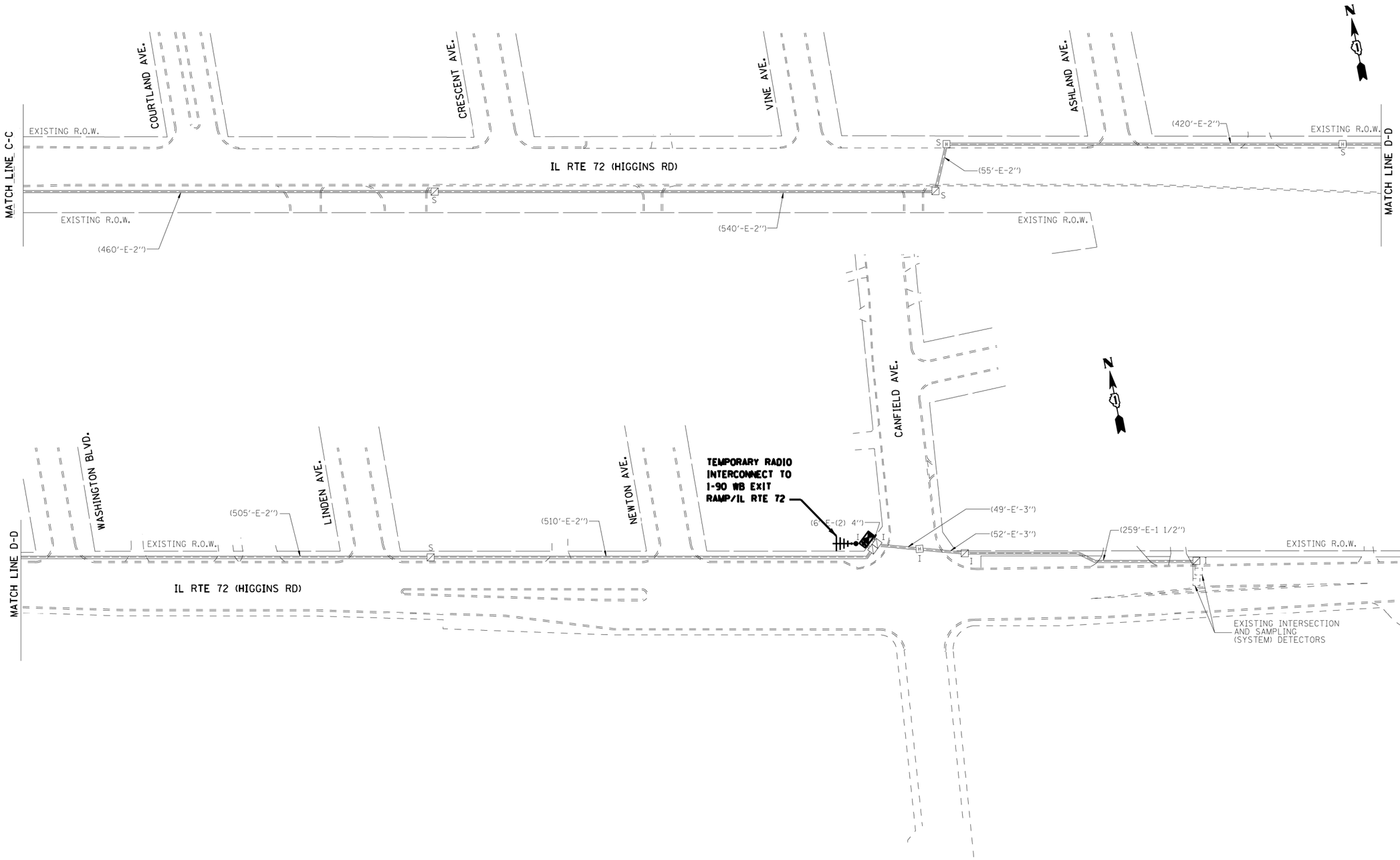
TS SHT NO. 07

EAGLE 7K

HNTB	USER NAME = $USER$	DESIGNED APR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN IL RTE 72 (HIGGINS RD.) DEE RD/EAST RIVER RD TO CANFIELD RD
		DRAWN APR	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED MAM	REVISED -		
	PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -		SCALE: 1"=50' SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(151 7 & 1415) I-14	COOK	353	140
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILEL$



TS SHT NO. 08

EAGLE 7K

HNTB	USER NAME = $USER$	DESIGNED GR	REVISED -
		DRAWN GR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED CG	REVISED -
	PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -

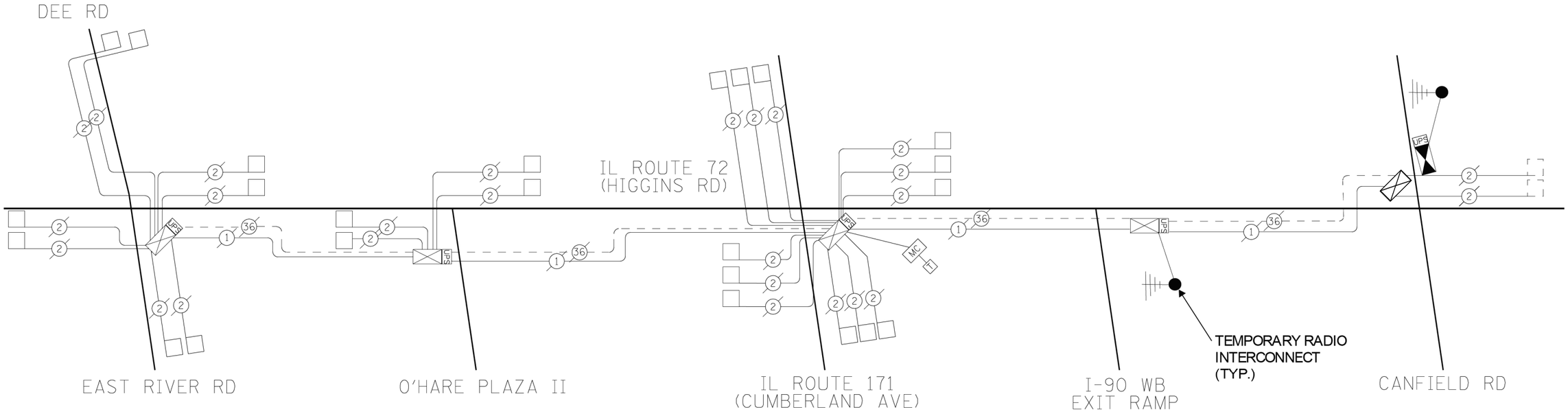
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD.)
DEE RD/EAST RIVER RD TO CANFIELD RD

SCALE: 1"=50' | SHEET NO. 8 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	141
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = $FILE$



TS SHT NO. 09

EAGLE 7K

HNTB

USER NAME = $USER$	DESIGNED GR	REVISED -	
	DRAWN GR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED CG	REVISED -	
PLOT DATE = $DATE$	DATE 8/21/2017	REVISED -	

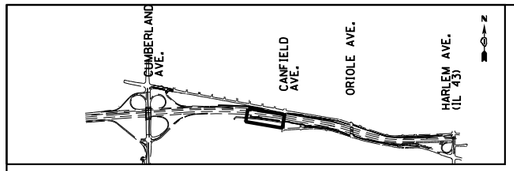
FILE NAME = $FILEL$

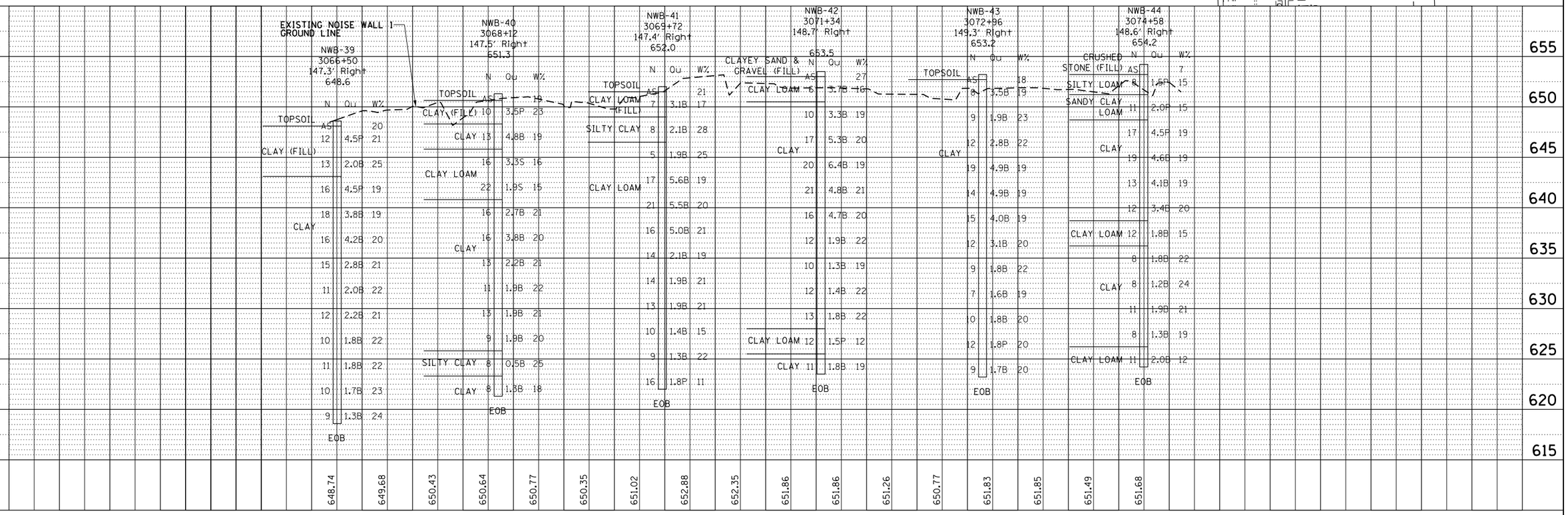
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
IL RTE 72 (HIGGINS RD)
DEE RD/EAST RIVER RD TO CANFIELD RD

SCALE: 1"=50' | SHEET NO. 9 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	142
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		





PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | R/T. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NO/ATN'S CHK'D | NOTE BOOK | NO. | BY | DATE

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2938

USER NAME = mkirby	DESIGNED - MJK	REVISED - -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

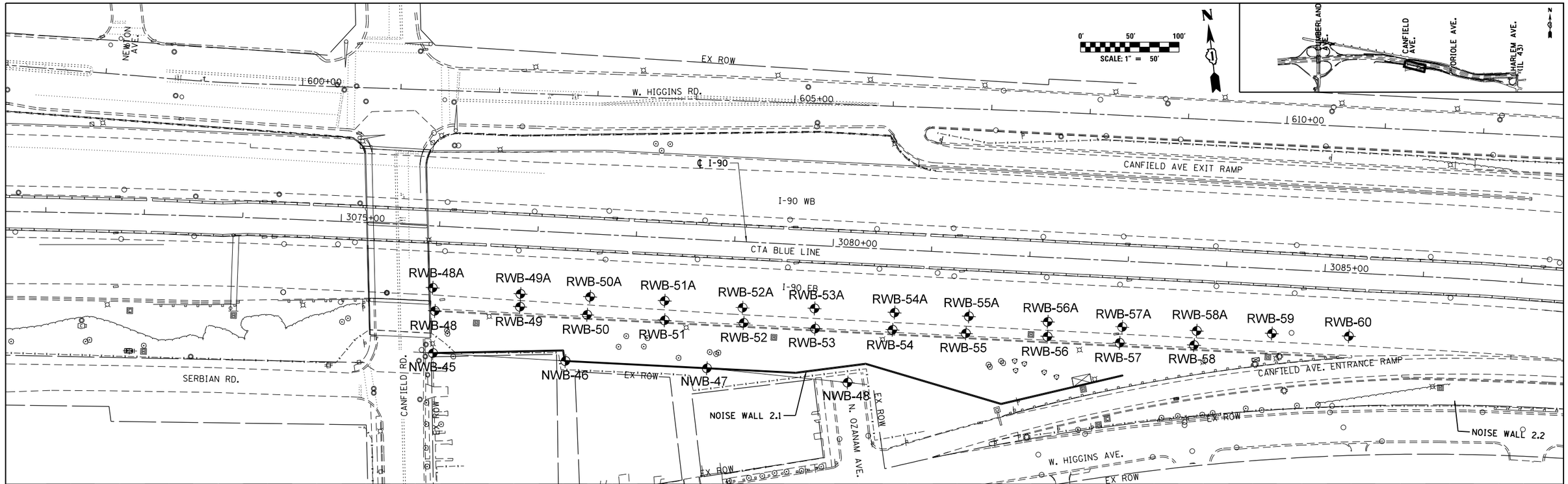
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EB SOIL BORING PLAN & PROFILE
NOISE WALL 1

SCALE: 1"=50' | SHEET 1 OF 9 SHEETS | STA. 3066+00 | TO STA. 3075+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	143

CONTRACT NO. 60Y40

ILLINOIS | FED. AID PROJECT



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE
BM. NOTED
STRUCTURE NOTATNS CHKD

EXISTING NOISE WALL 2.1
GROUND LINE

NWB-45
3076+00
128.9' Right
654.4

CLAY LOAM (FILL)	AS	2.0P	23
	AS	1.0P	31
	AS		30
OBSTRUCTION	AS		NR
	AS	1.5P	26
CLAY	AS	1.8P	23
	AS	3.0P	21

EOB

NWB-46
3077+35
130.0' Right
653.2

TOPSOIL	AS	2.0P	35
	AS	3.8B	24
	AS	3.5B	27
CLAY	AS	2.3B	28
	AS	3.0B	20
	AS	4.5B	19

EOB

NWB-47
3078+78
130.0' Right
654.4

TOPSOIL	AS		27
	AS	3.0P	24
CLAY LOAM	AS	4.5P	16
	AS	4.5P	18
	AS	4.5P	20

EOB

NWB-48
3080+22
137.1' Right
655.0

PAVEMENT	AS		5
	8	2.9B	23
	12	3.0B	21
CLAY	13	5.5B	20
	16	5.5B	21
	13	4.1B	21
	8	2.3B	19
	7	2.1B	21
	6	2.0B	21
	9	2.2B	21
	11	1.7B	20
CLAY LOAM	7	1.7B	16
CLAY	10	1.9B	20

EOB

RWB-55
3081+39
81.3' Right
640.0

CLAY LOAM (FILL)	AS	2.3B	18
	AS	3.3B	20
CLAY	AS	2.4B	21
	AS	2.4B	21
	AS	1.2B	20

EOB

RWB-57
3082+92
82.9' Right
641.9

	AS	2.6B	18
CLAY	AS	2.6B	20
	AS	2.9B	19
	AS	1.4B	20
	AS	2.2B	20

EOB

	660	655	650	645	640	635	630	625	620
EXISTING	655.03	654.29	653.68	652.99	653.53	654.12	653.18	655.34	654.01	654.08	653.95	652.97	652.87	650.97	648.70

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Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
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(630) 355-2838

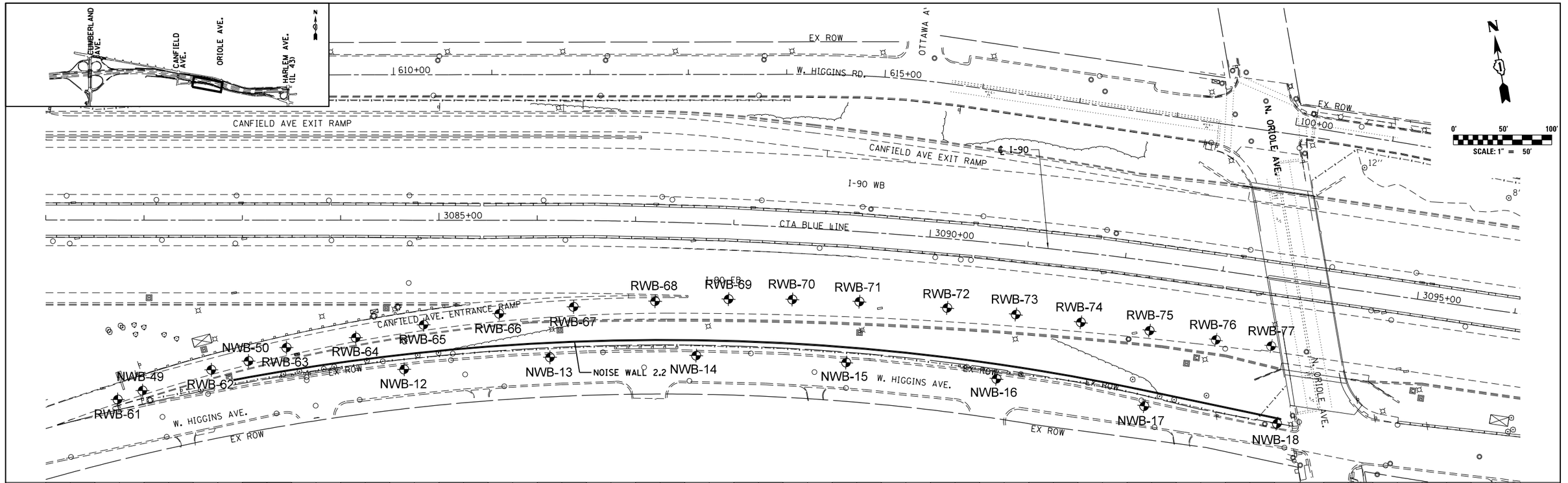
USER NAME = mkirby	DESIGNED - MJK	REVISED -	
	DRAWN - JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -	

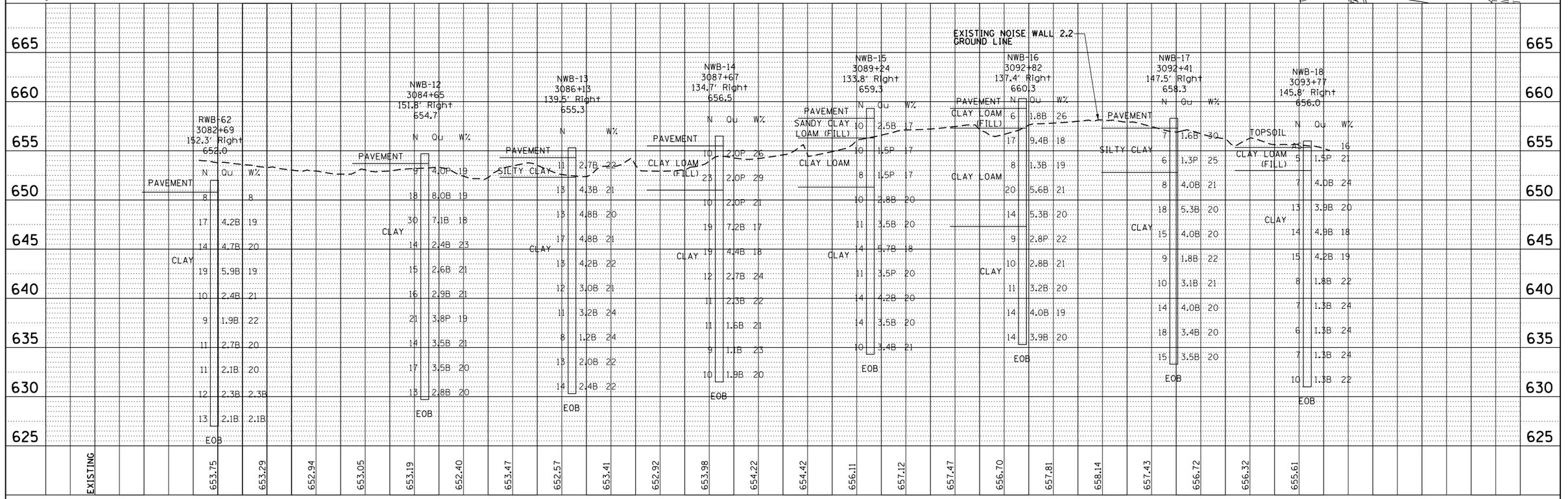
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EB SOIL BORING PLAN AND PROFILE
NOISE WALL 2.1

SCALE: 1"=50' | SHEET 2 OF 9 SHEETS | STA. 3075+00 | TO STA. 3084+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	144
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			





PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; CROSSES CHECKED; BAR. NOTED STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

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

USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

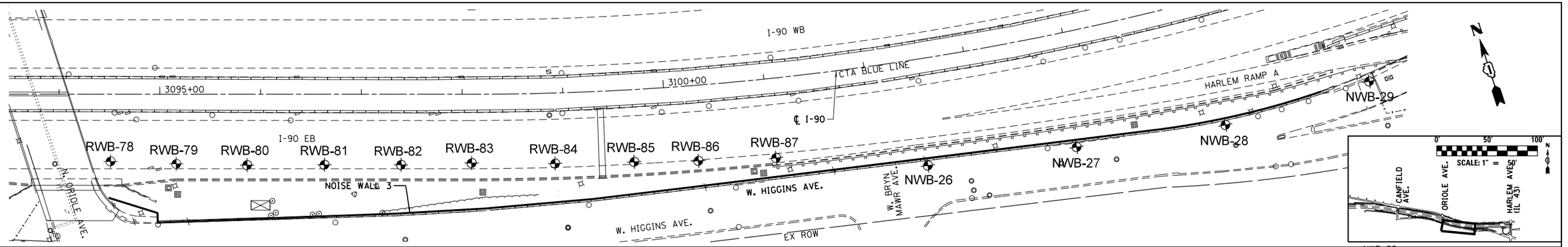
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EB SOIL BORING PLAN & PROFILE
NOISE WALL 2.2

SCALE: 1"=50' | SHEET 3 OF 9 SHEETS | STA. 3082+00 | TO STA. 3094+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	145

CONTRACT NO. 60Y40

ILLINOIS | FED. AID PROJECT



EXISTING NOISE WALL 3 GROUND LINE

RWB-78 3094+51 66.7' Right 636.0
RWB-80 3095+87 70.3' Right 636.8
RWB-82 3097+39 70.1' Right 638.7
RWB-84 3098+90 70.1' Right 641.0
RWB-86 3100+29 75.0' Right 642.7
RWB-87 3101+04 79.2' Right 643.7
NWB-26 2+69 27.8' Right 656.0
NWB-27 4+16 30.0' Right 655.2
NWB-28 5+68 33.5' Right 655.2
NWB-29 7+14 17.2' Right 658.0

PLAN: SURVEYED; PLOTTED; DRAWN; CHECKED; NOTE BOOK; NO.; BY; DATE; RT. OF WAY CHECKED; CADD FILE NAME; ALIGNMENT CHECKED

PROFILE: SURVEYED; PLOTTED; DRAWN; CHECKED; NOTE BOOK; NO.; BY; DATE; BLM. NOTED; STRUCTURE NO'TATNS CHKD

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 955-2958

USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

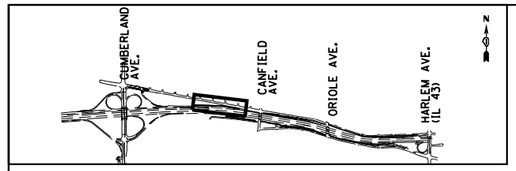
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
EB SOIL BORING PLAN & PROFILE
NOISE WALL 3

SCALE: 1"=50' | SHEET 4 OF 9 SHEETS | STA. 3095+00 | TO STA. 3106+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	146

CONTRACT NO. 60Y40

ILLINOIS | FED. AID PROJECT



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ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
B.M. NOTED
STRUCTURE NO
TATNS CHKD
NOTE BOOK
NO.

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambarst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2938

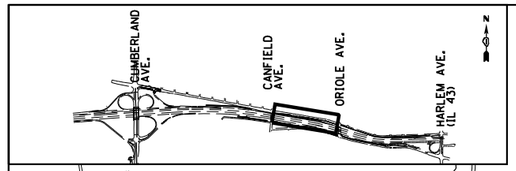
USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
WB SOIL BORING PLAN & PROFILE
NOISE WALL 6

SCALE: 1"=50' | SHEET 5 OF 9 SHEETS | STA. 3058+00 | TO STA. 3071+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	147
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			



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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 857-2958

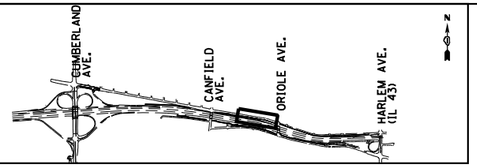
USER NAME = mkirby	DESIGNED - MJK	REVISED -	
	DRAWN - JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -	

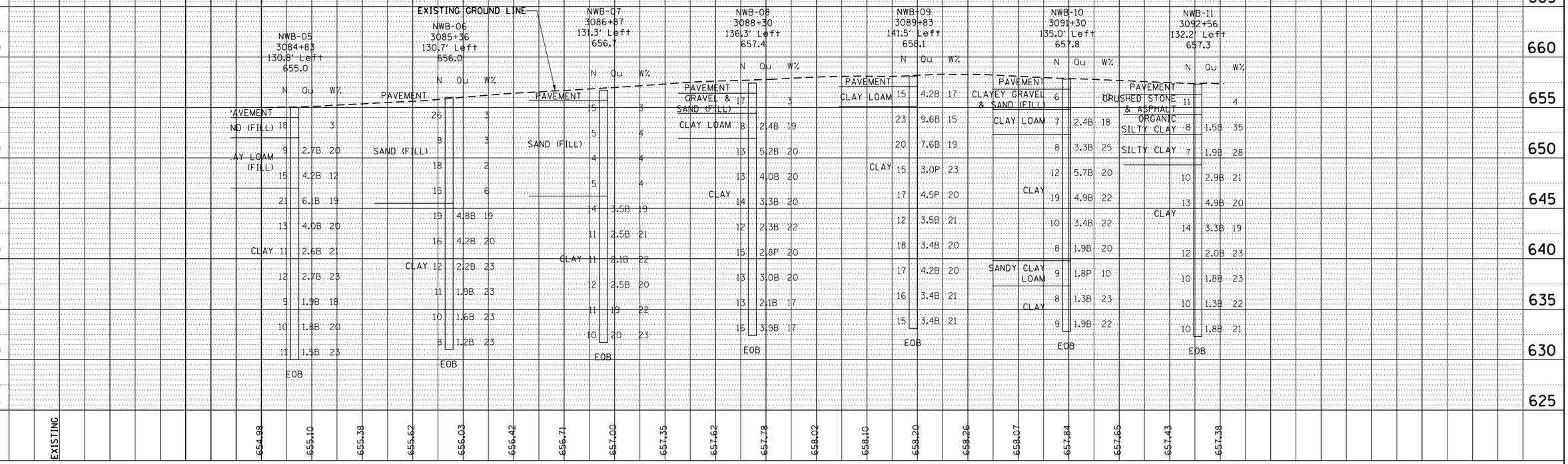
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
WB SOIL BORING PLAN & PROFILE
NOISE WALL 5.1 & 5.2

SCALE: 1"=50' | SHEET 6 OF 9 SHEETS | STA. 3076+00 | TO STA. 3081+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	148
			CONTRACT NO. 60Y40	
		ILLINOIS	FED. AID PROJECT	





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PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 857-2958

USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

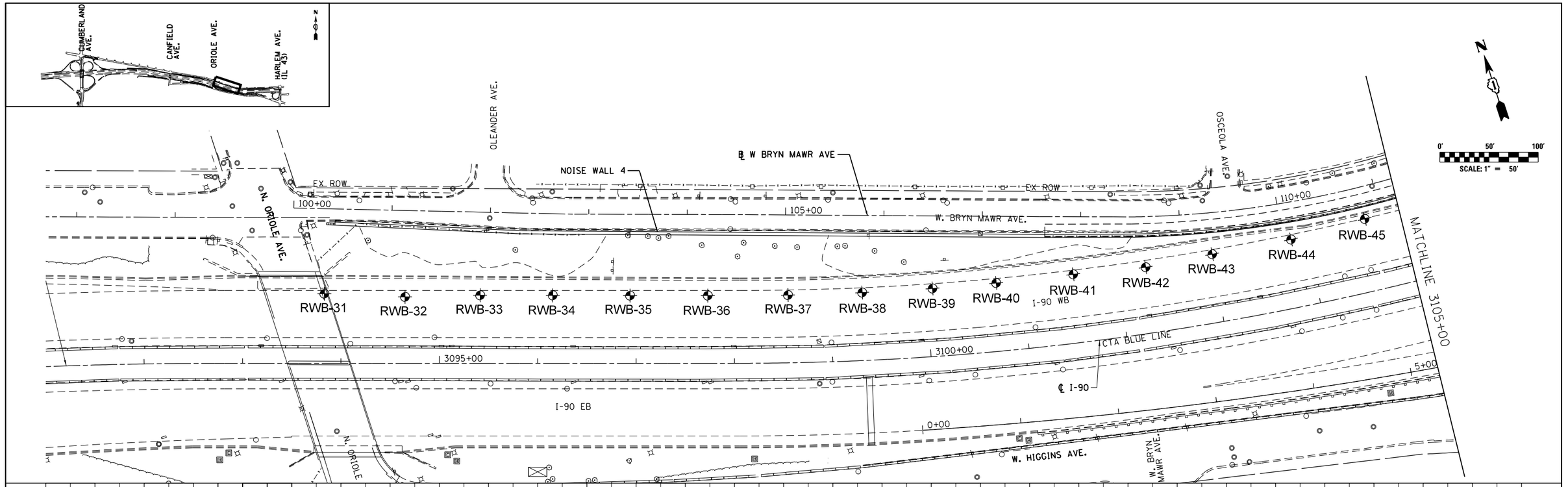
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
WB SOIL BORING PLAN & PROFILE
NOISE WALL 5.3

SCALE: 1"=50' | SHEET 7 OF 9 SHEETS | STA. 3083+00 | TO STA. 3094+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	149

CONTRACT NO. 60Y40
ILLINOIS | FED. AID PROJECT



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

PROFILE
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PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
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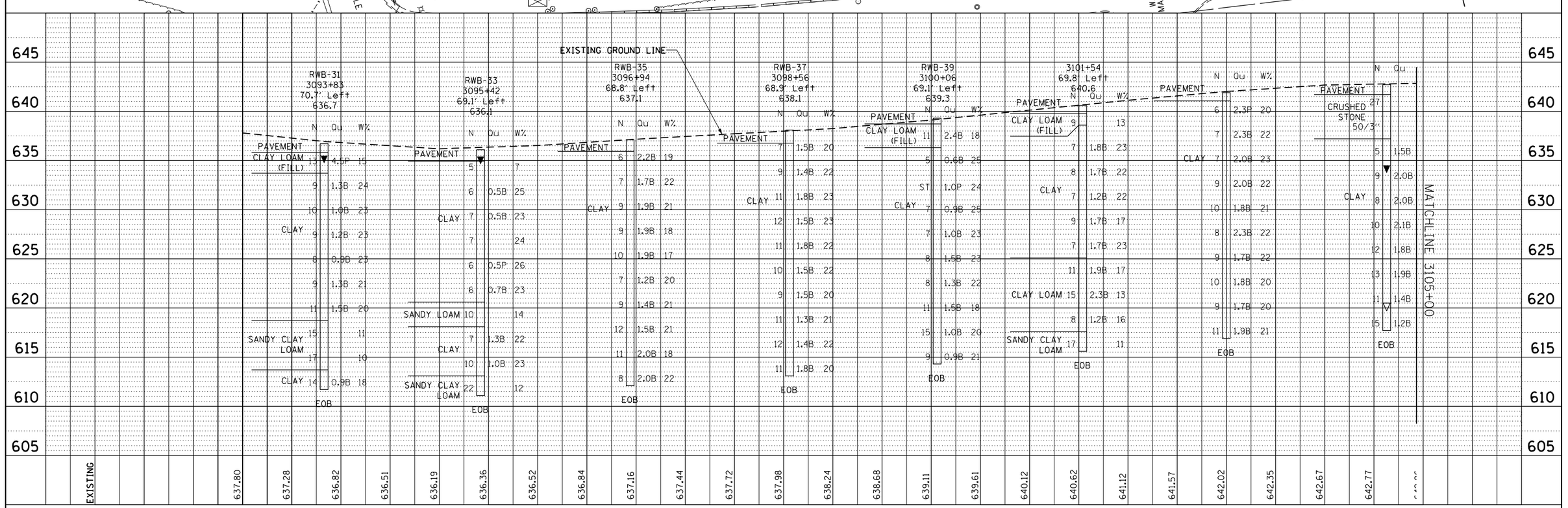
DATE
B.M. NOTED
STRUCTURE NOTATNS CHKD



Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court Suite 204
Naperville, Illinois 60565
(630) 857-2906

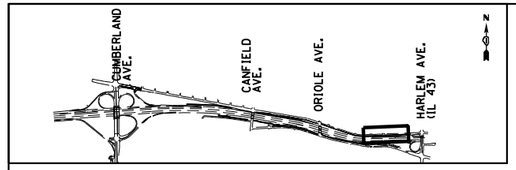
USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

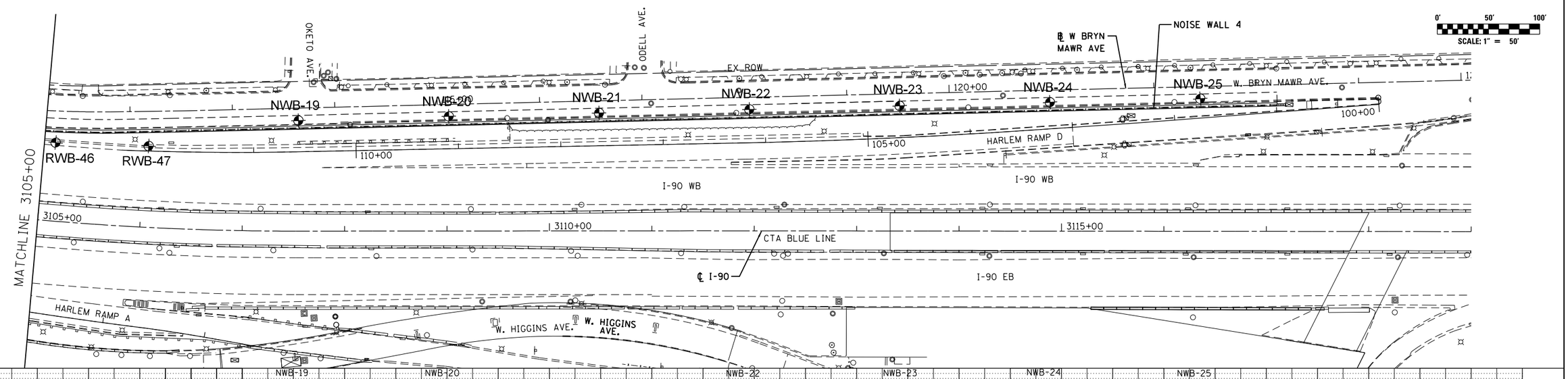
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

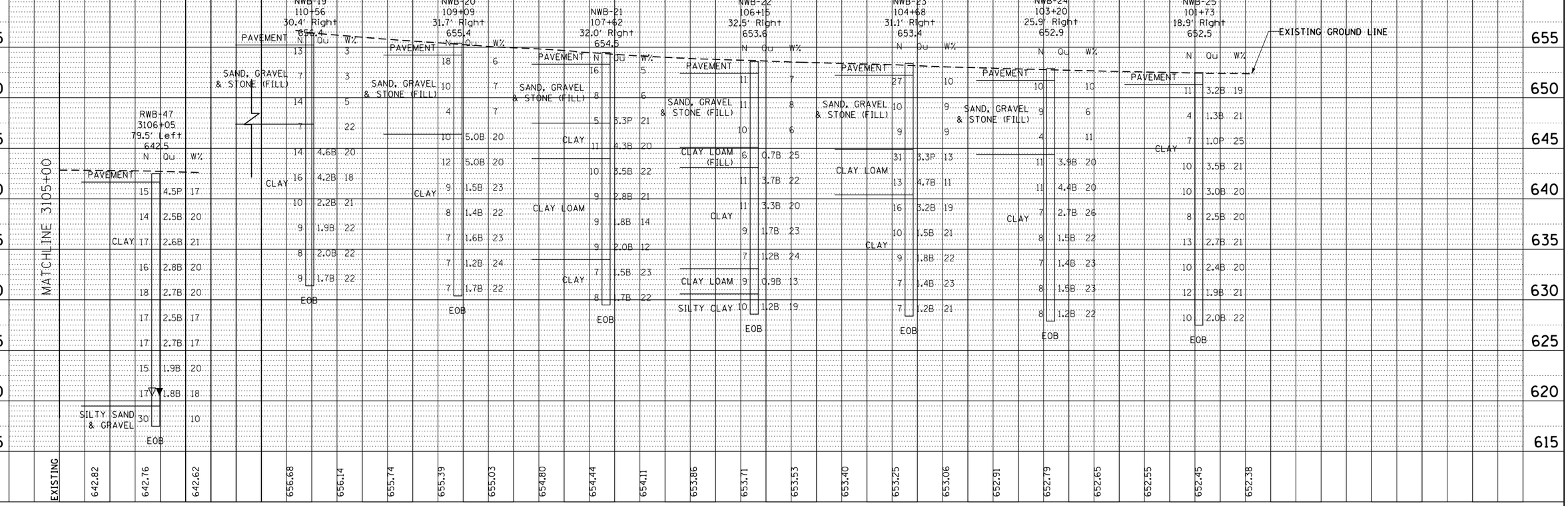
I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
WB SOIL BORING PLAN & PROFILE
NOISE WALL 4

SCALE: 1"=50' | SHEET 8 OF 9 SHEETS | STA. 3107+00 | TO STA. 3117+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	150
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		







PLAN
SURVEYED BY
PLOTTED DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME

PROFILE
SURVEYED BY
PLOTTED DATE
CROSS SECTIONS CHECKED
BAR. NOTED STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.

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

USER NAME = mkirby	DESIGNED - MJK	REVISED -
	DRAWN - JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - MAM	REVISED -
PLOT DATE = 8/15/2017	DATE - 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
WB SOIL BORING PLAN & PROFILE
NOISE WALL 4

SCALE: 1"=50' | SHEET 9 OF 9 SHEETS | STA. 3107+00 | TO STA. 3117+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			353	151
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/30/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-09
Station 3089+83
Offset 141.50ft Left
Ground Surface Elev. 658.10 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
657.10			
CLAY LOAM-brown & gray-hard	3		
	6 9	4.2	17
	9	3	
655.10			
CLAY-brown & gray-very stiff to hard	5		
	10 13	9.6	18
-5			
	5		
	8 12	7.6	19
	2		
	5 10	3.0	23
-10			
becoming gray @ -10.5'	5		
	6 11	4.5	20
	4		
	5 7	3.5	21
-15			
	5		
	7 11	3.4	20
	4		
	7 10	4.2	20
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-very stiff to hard *(continued)*	5		
	7 9	3.4	21
	4		
End Of Boring @ -25.0'. Boring backfilled with cuttings. 633.10	7 8	3.4	21
-25			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/30/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-10
Station 3091+30
Offset 135.00ft Left
Ground Surface Elev. 657.80 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
656.97			
CLAYEY SAND & GRAVEL-dark brown & gray-loose (Fill)	4		
	2 4		10
654.80			
CLAY LOAM-brown & gray-hard	2		
	3 4	2.4	18
-5	B		
652.30			
CLAY-brown & gray-very stiff to hard	2		
	4 4	3.3	25
	3	B	
	8 4	5.7	20
-10	B		
	6		
	8 11	4.9	22
	4	B	
	5 5	3.4	22
-15	B		
becoming gray @ -15.5'	2		
	3 5	1.9	20
	B		
639.80			
SANDY CLAY LOAM--gray-loose	3		
	4 5	1.8	10
-20	P		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY LOAM--gray-loose *(continued)* 637.30			
CLAY-gray-stiff	2		
	3 5	1.3	23
	B		
	2		
End Of Boring @ -25.0'. Boring backfilled with cuttings. 632.80	4 5	1.9	22
-25	B		
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/30/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-11
Station 3092+56
Offset 132.20ft Left
Ground Surface Elev. 657.30 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
656.47			
CRUSHED ASPHALT & STONE-medium dense	5		
	4 7		4
654.30			
ORGANIC SILTY CLAY-black-loose	2		
	3 5	1.5	35
652.30 -5	B		
SILTY CLAY-brown & gray-stiff	2		
	2 5	1.9	28
649.30	B		
CLAY-brown & gray-stiff to hard	3		
	4 6	2.9	21
-10	B		
becoming gray @ -13.0'	3		
	6 7	4.9	20
	B		
	6		
	7 7	3.3	19
-15	B		
	3		
	6 6	2.0	23
	B		
	2		
	4 6	1.8	23
-20	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*	3		
	4 6	1.3	22
	B		
End Of Boring @ -25.0'. Boring backfilled with cuttings. 632.30	4 5	1.8	23
-25	B		
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 INTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 1/24/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 09-11

SCALE: NTS | SHEET NO. 1 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	152
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG01.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-12
Station 3084+65
Offset 151.80ft Right
Ground Surface Elev. 654.70 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
653.70			
CLAY-brown & gray-stiff to very stiff	3		
	3	4.0	19
	6	P	
	4		
	6	8.0	19
-5	12	B	
	6		
	13	7.1	18
	17	B	
	3		
	5	2.4	23
-10	9	B	
becoming gray @ -10.5'	4		
	7	2.6	21
	8	B	
	4		
	7	2.9	21
-15	9	B	
	3		
	8	3.8	19
	13	P	
	3		
	5	3.5	21
-20	9	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to very stiff *(continued)*			
	4		
	7	3.5	20
	10	B	
	5		
End Of Boring @ -25.0'. Boring	5	2.8	20
backfilled with cuttings.	8	B	
629.70 -25			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 10/24/14

Geo Services, Inc.
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Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-13
Station 3086+13
Offset 139.50ft Right
Ground Surface Elev. 655.30 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
654.30			
SILTY CLAY-dark brown &	2		
gray-very stiff	5	2.7	22
	6	B	
652.30			
CLAY-brown & gray-stiff to hard	3		
	6	4.3	21
-5	7	B	
	3		
	5	4.8	20
	8	B	
	3		
	7	4.8	21
-10	10	B	
becoming gray @ -13.0'	4		
	5	4.2	22
	8	B	
	3		
	5	3.0	21
-15	7	B	
	3		
	4	3.2	24
	7	B	
	2		
	3	1.2	24
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	6	2.0	22
	7	B	
	3		
End Of Boring @ -25.0'. Boring	6	2.4	22
backfilled with cuttings.	8	B	
630.30 -25			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 10/24/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-14
Station 3087+67
Offset 134.70ft Right
Ground Surface Elev. 656.50 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" ASPHALT, 9.0" CONCRETE			
655.50			
CLAY LOAM-brown, gray &	2		
black-very stiff (Fill)	4	2.0	26
	6	P	
	9		
	12	2.0	29
-5	11	P	
651.00			
CLAY-brown & gray-stiff to hard	2		
	5	2.0	21
	5	P	
	4		
	9	7.2	17
-10	10	B	
becoming gray @ -10.5'	3		
	8	4.4	18
	11	B	
	4		
	5	2.7	24
-15	7	B	
	4		
	5	2.3	22
	6	B	
	2		
	5	1.6	21
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	6	1.1	23
	6	B	
	3		
End Of Boring @ -25.0'. Boring	4	1.9	20
backfilled with cuttings.	6	B	
631.50 -25			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 10/24/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 12-14

SCALE: NTS | SHEET NO. 2 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	153
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG02.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9388

SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. NWB-15
Station 3089+24
Offset 133.80ft Right
Ground Surface Elev. 659.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
658.30			
SANDY CLAY LOAM-dark brown & black-very stiff (Fill)	3		
	4	2.5	17
	6	B	
656.30			
CLAY LOAM-brown & gray-stiff	3		
	4	1.5	17
-5	6	P	
	4		
	4	1.5	17
	4	P	
651.30			
CLAY-gray-stiff to very stiff	4		
	4	2.8	20
-10	6	B	
	4		
	4	3.5	20
	7	B	
	4		
	6	5.7	18
-15	8	B	
	3		
	4	3.5	20
	7	P	
	4		
	6	4.2	20
-20	8	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	4		
	7	3.5	20
	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.	3		
634.30 -25	4	3.4	21
	6	B	
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. NWB-16
Station 3090+82
Offset 137.40ft Right
Ground Surface Elev. 660.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
659.30			
CLAY LOAM-brown spotted black-stiff (Fill)	4		
	2	1.8	26
	4	B	
657.30			
CLAY LOAM-brown & gray-stiff to hard	4		
	6	9.4	18
-5	11	B	
	3		
	3	1.3	19
	5	B	
	4		
	8	5.6	21
-10	12	B	
	3		
	6	5.3	20
	8	B	
647.30			
CLAY-gray-very stiff to hard	4		
	4	2.8	22
-15	5	P	
	3		
	5	2.8	21
	5	B	
	3		
	5	3.2	20
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-very stiff to hard *(continued)*			
	3		
	6	4.0	19
	8	B	
	4		
End Of Boring @ -25.0'. Boring backfilled with cuttings.	7	3.9	20
635.30 -25	7	B	
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. NWB-17
Station 3092+41
Offset 147.50ft Right
Ground Surface Elev. 658.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 8.0" CONCRETE			
657.30			
SILTY CLAY-dark brown & black-stiff	3		
	3	1.6	30
	4	B	
becoming brown @ -3.0'	3		
	3	1.3	25
-5	3	P	
652.80			
CLAY-brown & gray-stiff to very stiff	2		
	4	4.0	21
	4	B	
	4		
	8	5.3	20
-10	10	B	
	4		
	7	4.0	20
	8	B	
becoming gray @ -13.0'	3		
	4	1.8	22
-15	5	B	
	3		
	4	3.1	21
	6	B	
	3		
	5	4.0	20
-20	9	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to very stiff *(continued)*			
	4		
	9	3.4	20
	9	B	
	4		
End Of Boring @ -25.0'. Boring backfilled with cuttings.	6	3.5	20
633.30 -25	9	B	
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 15-17

SCALE: NTS | SHEET NO. 3 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	154
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG03.dgn

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 1/24/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0088

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/27/14

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Oriole Ave.) LOGGED BY VH

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-18
Station 3093+77
Offset 145.80ft Right
Ground Surface Elev. 656.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" TOPSOIL-black 655.33			
CLAY LOAM-brown, gray & black-stiff (Fill)			16
	2		
	2	1.5	21
	3	P	
653.00			
CLAY-brown & gray-stiff to hard			
	2		
-5	3	4.0	24
	4	B	
	4		
	6	3.9	20
	7	B	
	3		
-10	6	4.9	18
	8	B	
becoming gray @ -10.5'			
	3		
	6	4.2	19
	9	B	
	3		
-15	4	1.8	22
	4	B	
	3		
	3	1.3	24
	4	B	
	2		
-20	3	1.3	24
	3	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	3	1.3	24
	4	B	
	4		
End Of Boring @ -25.0'. Boring backfilled with cuttings. 631.00	4	1.3	22
-25	6	B	
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-007)\12245 BORING LOGS\12245_LOG.GPJ 12/24/14

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Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0088

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 3/9/15

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION -- LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-26
Station 2+69
Offset 27.80ft Right
Ground Surface Elev. 656.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2.5" ASPHALT, 10.0" CONCRETE 654.96			
GRAVEL-loose to medium dense (Fill)	12		
	15		4
	18		
	3		
-5	3		3
	4		
	3		
	3		2
	2		
647.00	2		
SILTY CLAY-brown & gray spotted black-stiff (Possible Fill)	2	1.3	28
-10	2	P	
645.50			
CLAY-gray-stiff to hard	3		
	4	2.4	22
	5	B	
	4		
	6	4.2	19
-15	7	B	
	3		
	4	1.7	20
	5	B	
	2		
-20	3	1.8	20
	4	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard *(continued)*			
	2		
	3	1.3	24
	3	B	
	2		
	3	1.5	22
631.00 -25	4	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 4/2/15

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0088

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 3/9/15

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION -- LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. NWB-27
Station 4+16
Offset 30.00ft Right
Ground Surface Elev. 655.20 ft

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

Groundwater Elev.:
First Encounter 636.7 ft ▼
Upon Completion 641.7 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" ASPHALT, 12.0" CONCRETE 653.95			
GRAVEL-medium dense (Fill)	9		
	10		3
	12		
	4		
-5	5		2
	5		
	4		
	4		2
	6		
646.20	4		
CLAY to CLAY LOAM-brown & gray-stiff to very stiff	3	3.5	20
-10	3	P	
	3		
	3	1.3	19
	4	B	
642.20			
SAND-brown-loose ▽	2		
	3		10
-15	4		
639.70			
SILTY SAND with Gravel-brown-very loose to loose	2		
	3		22
	3		
▼			
	3		
-20	2		12
	2		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
634.70			
CLAY LOAM-gray-stiff to very stiff	3		
	4	1.7	12
	5	B	
	4		
	6	3.7	12
630.20 -25	10	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 4/2/15

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 18, 26, 27

SCALE: NTS | SHEET NO. 4 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	155
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG04.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 3/9/15

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. NWB-28
Station 5+65
Offset 33.50ft Right
Ground Surface Elev. 655.20 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2.5" ASPHALT, 10.0" CONCRETE			
654.16			
CRUSHED STONE-loose to dense	14		
	18		3
	17		
	4		
	4		3
-5	4		
649.70			
SAND with Stone-brown-medium dense (Fill)	2		
	3		4
	4		
647.20			
CLAY-brown & gray-very stiff to hard	3		
	5	4.3	19
-10	7	B	
becoming gray @ -10.5'			
	3		
	4	2.6	20
	6	B	
642.20			
CLAY LOAM-gray-very stiff	4		
	5	3.5	11
-15	5	B	
639.70			
CLAY-gray-stiff to very stiff	3		
	4	1.8	21
	5	B	
	3		
	4	1.9	21
-20	4	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	4	2.3	21
	6	B	
	3		
	4	2.4	20
630.20 -25	5	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 4/2/15

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(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 3/9/15

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. NWB-29
Station 7+14
Offset 17.20ft Right
Ground Surface Elev. 658.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
18.0" CONCRETE			
656.50			
CRUSHED STONE-medium dense	27		
	14		6
	12		
654.00			
	12		
CLAY LOAM-brown & gray-hard	6		3
-5	7		
	3		
	5	4.8	16
	7	B	
	3		
	6	5.6	16
-10	8	B	
	4		
	5	4.3	17
	6	P	
645.00			
CLAY-gray-stiff to very stiff	3		
	4	1.8	19
-15	5	B	
	2		
	3	1.5	22
	4	B	
	2		
	4	2.1	20
-20	4	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	2		
	3	1.3	23
	4	B	
	4		
	4	2.0	21
633.00 -25	5	P	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 4/2/15

Geo Services, Inc.
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/17/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Noise Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TC

SECTION (1517 & 1415) R-3 **LOCATION** SE 1/4, **SEC.** 2, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-30
Station 3058+00
Offset 136.80ft Left
Ground Surface Elev. 645.20 ft

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

Groundwater Elev.:
First Encounter 637.2 ft ▼
Upon Completion n/a ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black			
644.20			28
CLAY LOAM-gray-stiff (Fill)	2		
	2	1.5	21
	2	P	
becoming brown & gray @ -3.5'	3		
	3	1.0	26
-5	4	P	
639.70			
CLAY-brown & gray-hard	8		
	10	4.5	18
	14	P	
▼			
	4		
	12	6.1	20
-10	13	B	
634.70			
CLAY to CLAY LOAM-gray-stiff to hard	5		
	8	4.5	19
	9	B	
	9		
	11	2.9	15
-15	12	B	
	8		
	9	2.4	19
	10	B	
	7		
	8	2.8	16
-20	8	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff to hard *(continued)*			
	6		
	8	1.7	24
	9	B	
	9		
	10	6.3	11
-25	17	B	
	7		
	7	2.3	16
	7	B	
	8		
	9	4.0	14
615.20 -30	10	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/13/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 28-30

SCALE: NTS | SHEET NO. 5 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	156
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG05.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/17/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 2, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-31
Station 3059+50
Offset 134.00ft Left
Ground Surface Elev. 647.10 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black			
646.10			2
CLAY-brown & gray-stiff to hard	3		
	5	2.5	26
	7	B	
	6		
	6	2.7	22
-5	8	B	
	6		
	10	2.4	20
	13	B	
	7		
	9	2.4	19
-10	12	B	
becoming gray @ -10.5'			
	8		
	8	3.0	21
	10	B	
	6		
	7	2.7	21
-15	7	B	
	5		
	6	1.6	24
	9	B	
	3		
	5	2.2	23
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	4		
	5	2.0	22
	5	B	
	5		
	5	1.9	22
-25	7	B	
	6		
	7	2.2	19
	8	B	
	3		
	3	1.9	24
617.10 -30	4	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245A_LOG.GPJ 9/12/16

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GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/17/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 2, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-32
Station 3061+00
Offset 133.30ft Left
Ground Surface Elev. 648.70 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" TOPSOIL-black			
647.87			25
CLAY-brown & gray-stiff to hard	5		
	7	3.5	21
	8	B	
	4		
	5	4.6	20
-5	10	B	
	8		
	12	9.7	19
	15	B	
	7		
	9	3.8	22
-10	11	B	
becoming gray @ -10.5'			
	6		
	7	2.7	20
	8	B	
	4		
	6	2.2	22
-15	7	B	
	3		
	4	1.6	23
	6	B	
	3		
	3	1.7	24
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	4		
	6	1.9	22
	6	B	
	5		
	5	1.8	22
-25	5	B	
	6		
	8	1.8	21
	9	B	
	3		
	3	1.9	22
618.70 -30	4	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245A_LOG.GPJ 9/12/16

Geo Services, Inc.
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/17/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 2, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-33
Station 3062+51
Offset 134.50ft Left
Ground Surface Elev. 650.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black			
649.00			32
CLAY-brown & gray-stiff to hard	3		
	3	3.1	23
	11	B	
	5		
	8	6.7	19
-5	12	B	
	4		
	7	5.2	18
	11	B	
	5		
	5	6.0	19
-10	9	B	
becoming gray @ -13.0'			
	5		
	8	4.8	21
	13	B	
	5		
	5	3.4	21
-15	7	B	
	5		
	5	2.1	22
	6	B	
	4		
	5	2.4	21
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	2		
	4	1.1	24
	4	B	
	6		
	7	2.6	19
-25	9	B	
624.50			
CLAY LOAM-gray-stiff to very stiff	7		
	9	2.3	14
	10	B	
	8		
	8	1.9	17
620.00 -30	9	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 31-33

SCALE: NTS | SHEET NO. 6 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	157
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG06.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 3/16/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 2, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. NWB-34
Station 3064+01
Offset 137.80ft Left
Ground Surface Elev. 650.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-stiff to very stiff (Fill)			22
	3		
	3 4	2.4 S	21
	8		
-5	11 13	1.0 P	21
644.50			
CLAY LOAM-brown & gray-very stiff to hard	9		
	11 12	3.8 B	21
	10		
-10	10 11	5.3 B	14
639.50			
CLAY-gray-medium stiff to hard	5		
	7 10	4.2 B	21
	4		
-15	7 9	4.2 B	20
	5		
	5 5	2.5 B	21
	3		
-20	3 4	0.9 B	26
CLAY-gray-medium stiff to hard *(continued)*	5		
	6 7	2.4 B	22
	6		
-25	8 8	2.3 B	21
624.50			
CLAY LOAM-gray-stiff	6		
	6 6	1.7 B	14
622.00			
CLAY-gray-very stiff	7		
-30	7 10	2.8 B	21
620.00			
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 3/16/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 2, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. NWB-35
Station 3065+51
Offset 142.90ft Left
Ground Surface Elev. 648.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 636.8 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black			
647.80			28
CLAY-brown & gray-very stiff	6		
	6 7	3.0 B	23
645.80			
SANDY CLAY LOAM-brown & gray-stiff	3		
	4 6	1.5 P	18
-5			
643.30			
CLAY-brown & gray-stiff to hard	8		
	11 12	4.5 B	20
	8		
-10	8 9	4.6 B	18
becoming gray @ -8.5'	5		
▼	9 10	4.6 B	18
	4		
-15	4 6	1.8 B	23
	3		
	3 4	1.8 B	23
	4		
-20	4 6	1.8 B	23
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	4 5	1.5 B	23
	5		
-25	6 8	1.8 B	22
	5		
	5 6	1.5 B	23
	4		
-30	7 8	1.5 B	19
618.80			
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 3/16/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. NWB-36
Station 3067+01
Offset 131.50ft Left
Ground Surface Elev. 649.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" CLAYEY TOPSOIL-black			
649.57			31
CLAY-brown & gray-very stiff to hard	6		
	10 11	6.0 B	19
	8		
-5	11 11	5.0 B	20
	8		
	9 11	4.9 B	20
	5		
-10	6 8	4.8 B	20
	6		
	7 8	2.5 B	21
	4		
-15	4 5	2.2 B	22
	4		
	4 5	2.1 B	22
	3		
-20	4 4	1.4 B	23
CLAY-brown & gray-very stiff to hard *(continued)*	3		
	3 3	1.3 B	24
	6		
-25	6 8	3.9 B	22
	6		
	8 9	3.3 B	22
	5		
-30	5 6	2.6 B	20
619.90			
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 34-36

SCALE: NTS | SHEET NO. 7 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	158
		CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG07.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/18/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-38
Station 3070+00
Offset 107.20ft Left
Ground Surface Elev. 649.60 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 4.0" CRUSHED STONE 648.60			2
CLAY-brown & gray-stiff to hard	3		
	3	3.3 B	18
	4		
	3		
	3	1.7 B	22
-5	3		
becoming gray @ -5.5.'	4		
	5	2.0 B	22
	6		
	5		
	5	1.4 B	23
-10	6		
	4		
	4	2.0 B	21
	7		
	4		
	5	2.3 B	22
-15	6		
	5		
	5	2.' B	23
	6		
	8		
	9	1.8 B	22
-20	10		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	AS		
		2.5 P	18
	4		
-25	5		20
	7		
	5		
	6	1.7 B	17
	6		
	6		
	6	1.6 B	16
619.60 -30	8		
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/21/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-45
Station 3076+00
Offset 128.90ft Right
Ground Surface Elev. 654.40 ft

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

Groundwater Elev.:
First Encounter 645.4 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-dark brown & gray spotted black-stiff to very stiff (Fill)	AS		
		2.0 P	23
	AS		
		1.0 P	31
-5	AS		30
648.40			
Drillers Observation: Unknown obstruction.	AS		NR
646.40			
CLAY-gray-stiff to very stiff ▼	AS		
		1.5 P	26
-10	AS		
		1.8 P	23
	AS		
640.40		3.0 P	21
End Of Boring @ -14.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 3/21/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Noise Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TC

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-46
Station 3077+35
Offset 130.00ft Right
Ground Surface Elev. 653.20 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	AS		
		2.0 P	35
651.20			
CLAY-brown & gray-very stiff to hard	AS		
		3.8 B	24
	AS		
		3.5 B	27
	AS		
-5		2.3 B	28
	AS		
		3.0 B	20
	AS		
		4.5 B	19
643.20 -10			
Auger Refusal @ 10.0', end of boring. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2017\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 38, 45, 46

SCALE: NTS | SHEET NO. 8 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	159
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG08.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 3/22/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Noise Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TC

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hand Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-47
Station 3078+78
Offset 130.00ft Right
Ground Surface Elev. 654.40 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black			27
	AS		
CLAY to CLAY LOAM-brown & gray-very stiff to hard		3.0 P	24
	AS		
-5		4.5 P	16
	AS		
		4.5 P	18
	AS		
		4.5 P	20
644.40 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black *(continued)*			
629.40 -25			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 5/4/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Noise Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TC

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-48
Station 3080+22
Offset 137.10ft Right
Ground Surface Elev. 655.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 4.0" CONCRETE 654.33			5
CLAY-brown & gray-stiff to hard	3		
	4	2.9	23
	4	B	
	4		
	6	3.0	21
-5	6	B	
	6		
	6	5.5	20
	7	B	
	7		
	8	5.5	21
-10	8	B	
	6		
becoming gray @ -13.0'	6	4.1	21
	7	B	
	4		
-15	4	2.3	19
	4	B	
	3		
	3	2.1	21
	4	B	
	3		
-20	3	2.0	21
	3	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	4		
	4	2.2	21
	5	B	
	4		
	5	1.7	20
-25	6	B	
629.50			
CLAY LOAM-gray-stiff	2		
	3	1.7	16
	4	B	
627.00			
CLAY-gray-stiff	3		
	5	1.9	20
625.00 -30	5	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 3/18/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Noise Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TC

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-49
Station 3081+73
Offset 182.70ft Right
Ground Surface Elev. 654.30 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 4.0" CRUSHED STONE 653.47			
CLAY-brown & gray-stiff to very stiff	3		
	4	2.5	17
	6	B	
becoming gray @ -3.0'			
	3		
	4	1.2	21
-5	5	B	
	3		
	5	2.0	20
	6	B	
646.30			
CLAY LOAM-gray-stiff	5		
	6	1.8	15
-10	6	B	
643.80			
CLAY-gray-stiff to very stiff	5		
	6	2.8	21
	9	B	
	6		
-15	6	2.0	21
	7	B	
	5		
	6	1.6	22
	8	B	
636.30			
CLAY LOAM-gray-stiff to very stiff	3		
-20	4	1.8	17
	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff to very stiff *(continued)*			
	7		
	10	2.9	11
	11	B	
	8		
	9	3.8	12
-25	10	B	
628.80			
SILTY CLAY LOAM-gray-hard	9		
	10	5.2	11
	12	B	
	10		
	10	4.4	10
624.30 -30	11	B	
End Of Boring @ -30.0'. Boring backfilled with cuttings.			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/23/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
NWB 47-49

SCALE: NTS | SHEET NO. 9 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	160
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG09.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Jamhesh Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 **of** 1

Date 3/18/16

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Noise Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TC

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. NWB-50
Station 3083+06
Offset 143.50ft Right
Ground Surface Elev. 651.10 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 7.0" CRUSHED STONE 650.02				SANDY CLAY LOAM-gray-loose *(continued)* 630.60			
CLAY-brown & gray-stiff to very stiff	5			CLAY-gray-stiff to very stiff	4		
	5	3.3	18		4	1.4	21
	6	B			6	B	
becoming gray @ -3.0'							
	4				6		
	4	2.2	22		7	3.3	19
-5	6	B		-25	10	B	
				625.60			
	3			CLAY LOAM-gray-hard	7		
	3	1.5	21		10	4.4	15
	3	B			11	B	
					8		
	4	1.2	20		9	5.2	13
-10	6	B		621.10 -30	11	B	
				End Of Boring @ -30.0'. Boring backfilled with cuttings.			
	4						
	4	1.6	22				
	5	B					
638.10							
CLAY LOAM-gray-stiff							
	3						
	4	1.0	13				
-15	4	B		-35			
635.60							
CLAY-gray-very stiff							
	4						
	4	2.2	21				
	5	B					
633.10							
SANDY CLAY LOAM-gray-loose							
	5						
	5	1.4	11				
-20	6	B		-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2017\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/25/16

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE. SOIL BORING LOGS NWB 50**
		DRAWN JAB	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -		
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -		SCALE: NTS | SHEET NO. 10 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	161
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG10.dgn

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(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/21/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-01
Station 3069+59
Offset 70.10ft Left
Ground Surface Elev. 640.10 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT 639.60			
6.0" CRUSHED STONE 639.10			
CLAY-gray-stiff to very stiff	6		
	4	1.8	21
	4	P	
	3		
	4	1.5	20
-5	5	B	
	3		
	4	1.9	22
	5	B	
	3		
	4	1.8	21
-10	5	B	
	3		
	4	1.5	20
	5	B	
	3		
	4	1.3	21
-15	4	B	
	3		
	4	1.4	23
	6	B	
	3		
	4	1.3	22
-20	6	B	
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	5	1.5	21
	7	B	
	4		
	6	2.0	21
615.10 -25	8	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/21/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-02
Station 3070+32
Offset 69.70ft Left
Ground Surface Elev. 638.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT 638.40			
6.0" CRUSHED STONE 637.90			
CLAY-gray-stiff to very stiff	8		
	6	2.3	20
	6	P	
	3		
	4	1.4	23
-5	5	B	
	3		
	5	1.7	23
	8	B	
	3		
	3	1.2	24
-10	6	B	
	3		
	4	1.4	23
	6	B	
	3		
	4	1.2	21
-15	6	B	
	4		
	4	1.5	23
	6	B	
	3		
	5	1.8	22
-20	7	B	
CLAY-gray-stiff to very stiff *(continued)*			
	4		
	6	1.7	23
	7	B	
	3		
	5	1.5	20
613.90 -25	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 01-02

SCALE: NTS | SHEET NO. 11 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	162
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG11.dgn

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(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 2

Date 11/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-03
Station 3071+11
Offset 69.60ft Left
Ground Surface Elev. 637.30 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 636.30			
CLAY-gray-stiff to very stiff	4		
	6 7	3.6 B	19
	2		
-5	3 4	1.1 B	25
	2		
	3 5	1.2 B	23
	2		
-10	3 4	1.3 B	22
	3		
	5 5	1.0 P	23
	3		
-15	5 6	1.1 B	23
	3		
	5 7	1.5 B	22
	3		
-20	4 6	1.5 B	20
CLAY-gray-stiff to very stiff *(continued)* 616.80			
CLAY LOAM-gray-stiff	4		
	5 6	1.3 P	17
	4		
-25	6 7	1.3 B	10
	3		
	4 5	1.1 B	15
	3		
-30	4 5	1.3 P	2
	4		
-35	6 9	1.4 B	38
	3		
-40	5 5	1.2 B	15

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

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GSI Job No. 12245-A

SOIL BORING LOG

Page 2 of 2

Date 11/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-03
Station 3071+11
Offset 69.60ft Left
Ground Surface Elev. 637.30 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff *(continued)*			
	4		
End Of Boring @ -45.0'. Boring backfilled with cuttings. 592.30 -45	6 8	1.4 B	17
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 03

SCALE: NTS | SHEET NO. 12 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	163
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG12.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-3988

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 11/13/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-15
Station 3080+61
Offset 66.90ft Left
Ground Surface Elev. 637.50 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 4.0" CRUSHED STONE 636.50			
CLAY LOAM-gray-very stiff (Possible Fill)	4		
	5 7	3.0 P	16
634.50			
CLAY-gray-stiff	3		
	4 5	1.8 B	20
-5			
	4		
	7 8	1.9 B	20
	4		
	6 7	1.9 B	18
-10			
627.00			
CLAY to CLAY LOAM-gray-stiff to very stiff	4		
	5 6	1.0 B	15
	4		
-15	5 7	1.2 B	21
	3		
	5 7	1.3 B	22
	4		
-20	6 8	1.5 B	17

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff to very stiff *(continued)*	4		
	5 9	1.9 B	19
	4		
	6 8	1.5 B	17
-25			
	3		
	4 5	1.0 P	17
	4		
	7 9	1.4 B	23
-30			
	5		
	6 8	2.7 B	15
-35			
	7		
-40	8 14	3.0 B	14

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

BBS, from 137 (Rev. 8-99)

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GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 11/13/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-15
Station 3080+61
Offset 66.90ft Left
Ground Surface Elev. 637.50 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff to very stiff *(continued)*			
	8		
	10 13	2.4 B	15
592.50 -45			
End Of Boring @ -45.0'. Boring backfilled with cuttings.			
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245_LOG.GPJ 9/16/14

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 9/16/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 15

SCALE: NTS | SHEET NO. 13 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	164
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG13.dgn

Geo Services, Inc.
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Naperville, Illinois 60565
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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 11/13/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-16
Station 3081+24
Offset 67.00ft Left
Ground Surface Elev. 637.90 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 4.0" CRUSHED STONE 636.90			
CLAY-gray-very stiff	3		
	5 5		5
	4		
-5	6 6	2.2 B	20
	4		
	6 7	2.3 B	18
629.90 COBBLES-dense			
	36		
-10	17 10		3
627.40 SILTY CLAY LOAM-gray-medium dense	5		
	7 9		14
	4		
-15	6 7		14
622.40 CLAY to CLAY LOAM-gray-stiff	3		
	5 5	1.4 B	20
	3		
-20	3 4	1.2 B	23
CLAY to CLAY LOAM-gray-stiff *(continued)*			
	3		
	4 5	1.2 B	20
	3		
-25	5 6	1.1 B	15
	4		
	7 9	1.9 B	21
	4		
	5 6	1.8 P	23
605.90 SILTY CLAY LOAM-gray-medium dense	7		
	8 14		13
600.90 CLAY LOAM-gray-medium dense	6		
-40	9 15	4.6 B	14

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245_LOG.GPJ 9/16/14

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(630) 355-3988

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 11/13/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-16
Station 3081+24
Offset 67.00ft Left
Ground Surface Elev. 637.90 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-medium dense *(continued)*			
	7		
592.90 -45 End Of Boring @ -45.0'. Boring backfilled with cuttings.	8 12	3.3 B	15
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245_LOG.GPJ 9/16/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 16

SCALE: NTS | SHEET NO. 14 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	165
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG14.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 11/12/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-17
Station 3081+92
Offset 67.20ft Left
Ground Surface Elev. 638.30 ft

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

Groundwater Elev.:
First Encounter 634.8 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 637.63			
CLAY-gray-medium stiff to stiff			
	3		
	4	1.9	19
	6	B	
▼			
	3		
	4	1.1	22
-5	5	B	
	3		
	4	1.2	21
	5	B	
	3		
	4	1.4	22
-10	6	B	
	3		
	4	0.8	23
	4	B	
	3		
	4	0.6	19
-15	4	B	
	3		
	4	1.4	23
	6	B	
	3		
	4	1.1	20
-20	5	B	
CLAY-gray-medium stiff to stiff *(continued)*			
	4		
	6	1.4	23
	7	B	
615.30			
SANDY CLAY LOAM-gray-medium dense to dense			
	6		
	9	3.9	10
-25	23	B	
	27		
	20		9
	14		
	9		
	11		11
-30	15		
606.30			
CLAY-stiff			
	7		
	11	1.9	20
-35	14	B	
601.30			
CLAY LOAM-gray-very stiff			
	8		
	10	2.7	13
-40	12	B	

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3988

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 11/12/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-17
Station 3081+92
Offset 67.20ft Left
Ground Surface Elev. 638.30 ft

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

Groundwater Elev.:
First Encounter 634.8 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-very stiff *(continued)*			
	6		
End Of Boring @ -45.0'. Boring backfilled with cuttings. 593.30	10	3.1	15
-45	11	B	
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 9/16/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 17

SCALE: NTS | SHEET NO. 15 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	166
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG15.dgn

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 11/12/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-18
Station 3082+73
Offset 67.30ft Left
Ground Surface Elev. 638.40 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" ASPHALT 637.65			
CLAY LOAM-brown & gray-very stiff	5		
	7 8	2.8 B	17
635.40			
CLAY-gray-medium stiff to stiff	2		
-5	3 4	1.1 B	22
	2		
	4 3	1.1 B	19
	3		
-10	3 5	1.5 B	21
	3		
	4 5	1.4 B	24
	3		
-15	3 3	1.2 B	24
	2		
	3 3	0.9 B	24
	3		
-20	3 4	1.1 B	24
CLAY-gray-medium stiff to stiff *(continued)*	3		
	4 5	1.3 B	22
	3		
-25	5 6	1.2 B	19
612.90			
SILTY LOAM-gray-medium dense	5		
	8 9		13
	4		
-30	7 9		17
606.40			
CLAY-gray-stiff	6		
	7 11	1.0 P	21
-35			
601.40			
CLAY LOAM-gray-stiff	4		
	6 9	1.4 B	16
-40			

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

BBS, from 137 (Rev. 8-99)

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Naperville, Illinois 60565
(630) 355-3988

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 11/12/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-18
Station 3082+73
Offset 67.30ft Left
Ground Surface Elev. 638.40 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff *(continued)*	3		
	4		
End Of Boring @ -45.0'. Boring backfilled with cuttings. 593.40	7 9	1.1 B	16
-45			
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245_LOG.GPJ 9/16/14

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 182-001)\12245 BORING LOGS\12245_LOG.GPJ 9/16/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 18

SCALE: NTS | SHEET NO. 16 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	167
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOGS.dgn

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 11/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-19
Station 3083+48
Offset 67.60ft Left
Ground Surface Elev. 638.90 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.15			
9.0" ASPHALT			
CLAY-gray-medium stiff to very stiff	3		
	4 6	1.3 P	22
	3		
-5	3 4	1.3 B	22
	3		
	4 5	1.2 B	20
	3		
-10	4 6	1.2 B	23
	2		
	3 3	1.0 P	24
-15	2		
	3 3	1.3 P	22
	3		
	4 5	0.6 B	19
	3		
-20	4 5	0.7 B	17
	3		
-25	4 7	1.3 B	20
	5		
	6 8	2.0 B	23
610.90			
CLAY LOAM-gray-stiff	5		
	7 8	1.9 B	16
-30			
606.90			
CLAY-gray-stiff	4		
	5 6	1.1 B	21
-35			
	4		
-40	5 7	1.4 B	21

CLAY-gray-medium stiff to very stiff *(continued)*

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

BBS, from 137 (Rev. 8-99)

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(630) 355-3988

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 11/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-19
Station 3083+48
Offset 67.60ft Left
Ground Surface Elev. 638.90 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	6		
End Of Boring @ -45.0'. Boring backfilled with cuttings. 593.90 -45	6 8	1.2 B	14
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

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HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 19

SCALE: NTS | SHEET NO. 17 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	168
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG17.dgn

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/18/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-20
Station 3084+30
Offset 67.40ft Left
Ground Surface Elev. 639.30 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.30			
12.0" ASPHALT			
638.05			
3.0" CRUSHED STONE	4		
CLAY-gray-stiff to very stiff	5	1.9	18
	5	B	
	2		
	3	1.2	24
-5	4	B	
	2		
	3	1.3	23
	4	B	
	3		
	3	1.4	23
-10	4	B	
	3		
	4	1.5	23
	5	B	
	3		
	4	1.2	23
-15	6	B	
	4		
	6	2.0	21
	7	B	
	4		
	6	1.4	21
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	4		
	5	1.3	23
	7	B	
	4		
	7	1.6	21
614.30 -25	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/16/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** NW

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-21
Station 3085+04
Offset 76.70ft Left
Ground Surface Elev. 640.50 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
639.58			
11.0" ASPHALT			
639.25			
4.0" CRUSHED STONE	2		
CLAY-gray-medium stiff to stiff	2	1.0	19
	3	P	
	2		
	3	1.4	24
-5	3	B	
	2		
	3	1.2	24
	4	B	
	2		
	4	1.2	23
-10	4	B	
	2		
	3	1.5	23
	5	B	
	2		
	3	0.7	23
-15	3	B	
	2		
	3	1.2	21
	4	B	
	3		
	5	1.8	21
-20	6	P	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
620.00			
CLAY-gray-medium stiff to stiff *(continued)*			
	4		
SANDY CLAY LOAM-gray-loose to medium dense	4	2.3	14
	5	P	
	4		
	6	1.7	12
615.50 -25	8	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245
Page 1 of 2
Date 11/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ
SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**
COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-22
Station 3085+80
Offset 67.70ft Left
Ground Surface Elev. 640.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 636.9 ft ▼
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
640.23 8.0" ASPHALT			
CLAY-gray-medium stiff to very stiff			
	5		
	3	0.9	22
	4	B	
▼	3		
	3	1.6	22
-5	3	B	
	3		
	4	0.9	23
	5	B	
	3		
	4	1.3	23
-10	5	B	
	2		
	3	1.2	22
	3	B	
	3		
	4	1.3	17
-15	5	B	
	3		
	4	1.2	20
	5	B	
	3		
	4	0.9	24
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-medium stiff to very stiff *(continued)*			
	5		
	7	1.9	19
	9	B	
	7		
	12	3.2	18
-25	15	B	
	7		
	8	2.8	20
	11	B	
	5		
	7	2.1	20
-30	10	B	
	6		
	10	2.8	21
-35	12	B	
	8		
603.90 SANDY CLAY LOAM-gray-medium dense			
	12	3.2	10
-40	16	B	

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 9/16/14

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245
Page 2 of 2
Date 11/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ
SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**
COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-22
Station 3085+80
Offset 67.70ft Left
Ground Surface Elev. 640.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 636.9 ft ▼
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY LOAM-gray-medium dense *(continued)*			
598.90 CLAY LOAM-gray-stiff			
	8		
End Of Boring @ -45.0'. Boring backfilled with cuttings.	10	1.9	16
595.90 -45	13	B	

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 9/16/14

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

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/16/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ
SECTION (1517 & 1415) R-3 **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**
COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-31
Station 3093+83
Offset 70.70ft Left
Ground Surface Elev. 636.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 634.7 ft ▼
Upon Completion Dry ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
635.78 11.0" ASPHALT			
CLAY LOAM-gray-hard (Fill)	7		
▼	6	4.5	15
	7	P	
633.70 CLAY-gray-medium stiff to stiff			
	3		
	4	1.3	24
-5	5	B	
	3		
	4	1.0	23
	6	B	
	3		
	4	1.2	23
-10	5	B	
	3		
	4	0.9	23
	4	B	
	3		
	4	1.3	21
-15	5	B	
	3		
	5	1.5	20
	6	B	
618.70 SANDY CLAY LOAM-gray-medium dense			
	3		
	7		11
-20	8		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY CLAY LOAM-gray-medium dense *(continued)*			
	6		
	7		10
	10		
613.70 CLAY-gray-stiff			
	5		
	6	0.9	18
611.70 -25	8	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

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

BBS, from 137 (Rev. 8-99)

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 22, 31

SCALE: NTS | SHEET NO. 19 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	170
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG19.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-32
Station 3094+65
Offset 67.40ft Left
Ground Surface Elev. 636.20 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.20			
10.0" ASPHALT			
635.37			
6.0" CRUSHED STONE-medium dense			
634.87			
	6		
	5		8
CLAY-gray-stiff	6		
	2		
-5	2	1.4	23
	3	B	
	2		
	2	1.3	23
	4	B	
	3		
	4	1.5	23
-10	4	B	
	3		
	3	1.5	22
	5	B	
	3		
	4	1.9	22
-15	6	B	
	3		
	4	1.5	20
	4	B	
	3		
	5	1.8	20
-20	7	B	
CLAY-gray-stiff *(continued)*			
615.70			
SANDY CLAY LOAM-gray-medium dense	3		
	7		10
613.20	10		
CLAY-gray-very stiff			
	4		
	5	2.2	20
611.20 -25	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

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(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-33
Station 3095+42
Offset 69.10ft Left
Ground Surface Elev. 636.10 ft

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

Groundwater Elev.:
First Encounter 634.6 ft ▼
Upon Completion 630.1 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.10			
8.0" ASPHALT			
635.43			
6.0" CRUSHED STONE			
634.93			
CLAY-gray-medium stiff	3		
	3		7
	2		
	2		
-5	3	0.5	25
	3	B	
	2		
	3	0.5	23
	4	B	
	2		
	3		24
-10	4		
	2		
	3	0.5	26
	3	P	
	2		
	3	0.7	23
-15	3	B	
620.60			
SANDY LOAM-gray-medium dense	2		
	4		14
618.10	6		
CLAY-gray-stiff	3		
-20	3	1.3	22
	4	B	
CLAY-gray-stiff *(continued)*			
	4	1.0	23
	6	B	
613.10			
SANDY CLAY LOAM-gray-medium dense	5		
	9		12
611.10 -25	13		
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW

SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-34
Station 3096+15
Offset 69.00ft Left
Ground Surface Elev. 636.60 ft

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

Groundwater Elev.:
First Encounter 615.6 ft ▼
Upon Completion 612.6 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.60			
9.0" ASPHALT			
635.85			
6.0" CRUSHED STONE			
635.35			
SILTY CLAY-gray-stiff to very stiff	3		
	2	2.8	18
	4	B	
	2		
	2	1.0	24
-5	3	B	
	2		
	3	1.1	24
	3	B	
	2		
	2	1.1	23
-10	3	B	
	3		
	4	1.5	22
	5	B	
	3		
	4	1.4	21
-15	6	B	
	3		
	4	1.3	19
	5	B	
	9		
-20	9		10
	8		
616.10			
CLAY-gray-stiff	5		
	5	1.8	21
	7	B	
	5		
	7	1.9	17
611.60 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 32-34

SCALE: NTS | SHEET NO. 20 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	171
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG20.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-35
Station 3096+94
Offset 68.80ft Left
Ground Surface Elev. 637.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 636.43			
6.0" CRUSHED STONE 635.93			
CLAY-gray-stiff to very stiff	3		
	3	2.2	19
	3	B	
	2		
	3	1.7	22
-5	4	B	
	2		
	4	1.9	21
	5	B	
	3		
	4	1.9	18
-10	5	B	
	4		
	5	1.9	17
	5	B	
	3		
	3	1.2	20
-15	4	B	
	3		
	4	1.4	21
	5	B	
	4		
	5	1.5	21
-20	7	B	
CLAY-gray-stiff to very stiff *(continued)*	3		
	5	2.0	18
	6	B	
	3		
	3	2.0	22
612.10 -25	5	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 2
Date 11/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-36
Station 3097+73
Offset 68.80ft Left
Ground Surface Elev. 637.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 633.4 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 636.82			
5.0" CRUSHED STONE 636.40			
CLAY-gray-stiff	6		
	4	1.5	21
	3	B	
▼	2		
	4	1.7	22
-5	5	B	
	3		
	5	1.5	22
	7	B	
	3		
	4	1.4	22
-10	6	B	
	4		
	5	1.6	22
	7	B	
	3		
	5	1.3	21
-15	6	B	
	4		
	5	1.5	22
	6	B	
	5		
	5	1.2	18
-20	8	B	
CLAY-gray-stiff *(continued)*	4		
	5	1.0	17
	7	B	
614.40			
SANDY LOAM-gray-medium dense	5		
	7		13
-25	9		
611.90			
CLAY-gray-stiff to very stiff	5		
	6	1.3	23
	8	B	
	4		
	6	1.5	16
-30	7	B	
	8		
	10	2.6	21
-35	13	B	
	3		
	5	1.9	23
-40	7	B	

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 2 of 2
Date 11/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY NW
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-36
Station 3097+73
Offset 68.80ft Left
Ground Surface Elev. 637.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 633.4 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	5		
End Of Boring @ -45.0'. Boring backfilled with cuttings.	9	2.3	27
592.40 -45	9	B	
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A\HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 35-36

SCALE: NTS | SHEET NO. 21 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	172
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG21.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-37
Station 3098+56
Offset 68.90ft Left
Ground Surface Elev. 638.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 637.52			
9.0" CRUSHED STONE 636.60			
CLAY-gray-stiff	6		
	3	1.5	20
	4	B	
	3		
	4	1.4	22
-5	5	B	
	4		
	5	1.8	23
	6	B	
	4		
-10	5	1.5	23
	7	B	
	4		
	5	1.8	22
	6	B	
	4		
-15	5	1.5	22
	5	B	
	3		
	4	1.5	20
	5	B	
	4		
-20	5	1.3	21
	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	4		
	5	1.4	22
	7	B	
	4		
	5	1.8	20
613.10 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/14/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-38
Station 3099+33
Offset 69.10ft Left
Ground Surface Elev. 638.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 636.6 ft ▼
Upon Completion 615.6 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 638.02			
9.0" CRUSHED STONE 637.10			
CLAY-gray-medium stiff to stiff	5		7
	8		
	3		
		1.0	22
	ST	P	
-5			
	2		
	2	1.0	25
	3	P	
	3		
-10	4	0.6	22
	5	B	
	3		
	4	1.1	23
	5	B	
	3		
-15	3	1.3	23
	4	B	
	3		
	4	1.5	21
	6	B	
	4		
-20	5	1.8	20
	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-medium stiff to stiff *(continued)* 618.10			
SILTY LOAM-gray-medium dense	5		
	6		18
	9		
615.60 ▽			
CLAY-gray-very stiff			
	4		
	4	2.1	22
613.60 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/20/16

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE ____

STRUCT. NO. -
Station -
BORING NO. RWB-48
Station 3074+00
Offset 86.00ft Right
Ground Surface Elev. 639.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gay-very stiff to hard (Fill)	4		
	8	2.5	15
	9	P	
	12		
	14	4.0	18
635.10	17	B	
CLAY-brown & gay-medium stiff to very stiff	11		
-5	4	1.0	21
	4	B	
		0.8	21
	5	B	24
becoming gray @ -7.25'	4	1.1	21
	6	B	
		1.1	18
	11	B	
	15		
629.10 -10	16	3.8	
		B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

NOTES:

1. FOR LOCATION OF SOIL BORING, SEE SHEET X OF XX.

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 37, 38, 48

SCALE: NTS | SHEET NO. 22 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	173
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG22.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-48A
Station 3075+96
Offset 62.70ft Right
Ground Surface Elev. 634.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 618.9 ft ▼
Upon Completion 611.9 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 633.90			
CRUSHED STONE-loose (Fill)	3		
	4		9
	4		
631.90			
CLAY-gray-stiff to very stiff			
	3		
	3	1.1	22
-5	4	B	
	4		
	5	1.9	22
	8	B	
	5		
	7	2.3	22
-10	9	B	
	4		
	6	1.9	21
	10	B	
	5		
	9	2.0	20
-15	11	P	
▼	5		
	9	2.1	21
	11	B	
	6		
	8	1.7	16
-20	11	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	9		
	12	1.7	20
	13	B	
▽			
	6		
	7	2.1	19
609.90 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -
BORING NO. RWB-49
Station 3076+86
Offset 77.40ft Right
Ground Surface Elev. 636.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black 635.80			33
CLAY LOAM-brown-very stiff (Fill)	4		
	5	2.3	18
634.30	8	B	
CLAY-brown & gray-very stiff	6		
	9	2.3	20
632.30	13	B	
CLAY LOAM-gray-very stiff	15		
-5	17	3.8	13
	19	B	
630.30			
CLAY-gray-hard	10		
	10	4.3	18
	15	B	
	10		
	13	4.7	19
	19	B	
626.30 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-49A
Station 3076+86
Offset 64.40ft Right
Ground Surface Elev. 635.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 633.8 ft ▼
Upon Completion 621.8 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT 635.01			
6.0" CRUSHED STONE 634.51	5		
CLAY-gray-very stiff	4		7
▼	4		
	3		
	3	2.0	22
-5	6	B	
	4		
	6	2.1	21
	11	B	
627.80			
LOAM-gray-medium dense	7		
	8	2.5	12
-10	9	P	
625.30			
CLAY-gray-stiff	4		
	5	1.5	20
	9	B	
▽	3		
	5	1.2	23
-15	8	B	
	4		
	8	1.6	21
	11	B	
	6		
	6	1.6	20
-20	11	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	7		
	9	1.3	22
	12	B	
	5		
	6	1.0	21
610.80 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 48A–49A

SCALE: NTS | SHEET NO. 23 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	174
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG23.dgn

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(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -
BORING NO. RWB-50
Station 3077+54
Offset 82.00ft Right
Ground Surface Elev. 637.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-very stiff to hard (Fill)		4		
		6	2.3	19
		10	B	
		9		
		14	6.2	18
		13	B	
632.80	-5		2.5	15
CLAY-gray-very stiff to hard		14	B	
		19	4.9	19
		27	B	
		12	3.5	20
		12	B	
		16		
		9		
		11	2.7	21
		12	B	
627.80	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-50A
Station 3077+56
Offset 63.70ft Right
Ground Surface Elev. 635.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 633.8 ft ▼
Upon Completion 621.8 ft ▽
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" ASPHALT				
15.0" CRUSHED STONE-loose (Fill)	635.05			
		5		
	633.80 ▼	3		21
CLAY-gray-stiff		4		
		3		
		4	1.3	19
	-5	5	B	
		3		
		4	1.0	19
		5	B	
		4		
	-10	5	1.1	24
		5	B	
		3		
		3	1.3	23
		5	B	
		4		
▽				
	-15	4	1.0	22
		7	P	
		4		
		4	1.2	22
		6	B	
		5		
	-20	8	1.1	22
		8	B	

CLAY-gray-stiff *(continued)*

		5		
		7	1.2	25
		8	B	
		5		
		6	1.2	21
610.80	-25	8	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

GSI Job No. 12245-A
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Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -
BORING NO. RWB-51
Station 3078+33
Offset 83.60ft Right
Ground Surface Elev. 639.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" TOPSOIL-black	638.50			30
CLAY LOAM-gray-hard (Fill)		3		
		4	4.0	19
	637.00	5	P	
CLAY-gray-stiff to hard		9		
		10	3.7	20
		12	B	
		10		
	-5	10	2.2	20
		12	B	
		9		
		10	9.9	17
		10	B	
		12		
		20	1.0	21
		20	B	
629.00	-10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 50-51

SCALE: NTS | SHEET NO. 24 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	175
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG24.dgn

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(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-51A
Station 3078+32
Offset 63.90ft Right
Ground Surface Elev. 636.10 ft

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

Groundwater Elev.:
First Encounter 634.6 ft ▼
Upon Completion 623.1 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 635.52			
11.0" CLAYEY SAND & GRAVEL-brown 634.60 ▼	4		
CLAY-gray-stiff	5		9
	6		
	3		
	3	1.2	22
-5	5	B	
	5		
	5	1.2	18
	7	B	
	4		
-10	6	1.3	21
	6	B	
	4		
	7	1.6	20
▽	7	B	
	4		
	6	1.4	21
-15	7	B	
	5		
	7	1.6	20
	8	B	
	5		
	7	1.9	20
-20	8	B	
CLAY-gray-stiff *(continued)*			
	5		
	8	1.9	18
	9	B	
	5		
	7	1.9	21
611.10 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE ____

STRUCT. NO. -
Station -

BORING NO. RWB-52
Station 3079+13
Offset 82.20ft Right
Ground Surface Elev. 639.20 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" TOPSOIL-black 638.95	5		36
CLAY LOAM-brown, gray & spotted black-stiff (Fill)	5	1.9	19
637.20	6	B	
CLAY-gray-stiff to hard	6		
	10	3.6	20
	12	B	
	8		
-5	10	1.9	22
	12	B	
	8		
	11	11.7	17
	16	B	
	17		
	15	1.0	21
629.20 -10	19	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

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HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 51A-52

SCALE: NTS | SHEET NO. 25 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	176
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG25.dgn

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Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
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Date 10/8/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-52A
Station 3079+11
Offset 16.80ft Right
Ground Surface Elev. 636.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 635.2 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.12 7.0" ASPHALT			
635.70 5.0" CRUSHED STONE			
SANDY CLAY LOAM with Gravel-brown & gray-loose (Fill)	3		
	4		14
	4		
633.70 CLAY-gray-stiff			
	4		
	4	1.5	22
-5	6	B	
	5		
	6	1.5	21
	8	B	
628.70 CLAY LOAM-gray-stiff			
	5		
	6	1.8	15
-10	9	B	
626.20 SILTY LOAM-gray-medium dense			
	8		
	9		14
	10		
623.70 SILTY CLAY LOAM-gray-stiff			
	6		
	6	2.0	16
-15	7	P	
621.20 CLAY-gray-stiff			
	3		
	5	1.8	23
	8	P	
	4		
	6	1.9	22
-20	8	B	
CLAY-gray-stiff *(continued)*			
	6		
	6	1.0	19
	8	B	
	5		
-25	6	1.0	19
	8	B	
611.20 CLAY LOAM-gray-stiff to very stiff			
	6		
	6	2.0	13
	9	P	
	4		
	5	1.5	13
-30	9	P	
	7		
	10	1.9	15
-35	15	B	
	9		
	12	2.3	14
-40	14	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 2 of 2
Date 10/8/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-52A
Station 3079+11
Offset 16.80ft Right
Ground Surface Elev. 636.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 635.2 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff to very stiff *(continued)*			
	10		
	12	2.3	15
591.70 -45	16	B	
End Of Boring @ -45.0'. Boring backfilled with cuttings.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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(630) 355-0588

SOIL BORING LOG

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Date 12/11/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -
BORING NO. RWB-53
Station 3079+86
Offset 84.30ft Right
Ground Surface Elev. 640.60 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
640.10 6.0" TOPSOIL-black			29
CLAY LOAM-brown & gray-very stiff (Fill)	4		
	5	2.8	18
638.60	6	B	
CLAY-gray-stiff to hard	8		
	12	4.7	20
	18	B	
	9		
-5	9	1.7	22
	13	B	
	8		
	10	1.4	23
	14	B	
	8		
	10	2.1	23
	12	B	
630.60 -10			
End Of Boring @ -10.0'. Boring backfilled with cuttings.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 52A-53

SCALE: NTS | SHEET NO. 26 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	177
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG26.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/4/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-53A
Station 3079+84
Offset 63.90ft Right
Ground Surface Elev. 637.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 635.5 ft ▼
Upon Completion 617.0 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 636.42			
17.0" CRUSHED STONE-loose (Fill)			
▼	5		
635.00	4		6
CLAY-gray-stiff	5		
	3		
	5	1.3	18
-5	6	B	
	3		
	4	1.1	23
	6	B	
	4		
	5	1.3	22
-10	7	P	
	3		
	5	1.2	22
	8	B	
	5		
	7	1.5	22
-15	9	B	
	5		
	5	1.3	17
	9	B	
	5		
	8	1.9	16
▽-20	9	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	7		
	9	1.3	15
	14	B	
	5		
	7	1.3	17
612.00 -25	10	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 12/12/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -
BORING NO. RWB-54
Station 3080+65
Offset 81.50ft Right
Ground Surface Elev. 639.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black 638.90			31
CLAY LOAM-dark brown & gray-very stiff (Fill) 637.90	4		
	5	3.0	18
CLAY-gray-stiff to very stiff	8	P	
	9	1.7	22
	12	B	
	17		
	14		
-5	19	2.4	18
	21	B	
	15		
	21	2.4	21
	23	B	
	10		
	10	2.4	21
	15	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings. 629.90 -10			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/7/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-54A
Station 3080+66
Offset 63.90ft Right
Ground Surface Elev. 637.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 636.2 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 637.12			
17.0" CRUSHED STONE-loose (Fill)			
▼	4		
635.70	4		6
CLAY-gray-stiff	5		
	3		
	3	1.7	22
-5	5	B	
632.20			
LOAM-gray-stiff	3		
	4	1.8	11
	7	B	
629.70			
CLAY-gray-stiff	5		
	5	2.0	20
-10	7	P	
	4		
	5	1.7	18
	8	B	
	4		
	5	1.7	17
-15	9	B	
	3		
	4	1.8	21
	7	B	
	6		
	5	1.7	21
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	6		
	8	1.8	21
	9	B	
	9	1.7	16
612.70 -25	11	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 53A-54A

SCALE: NTS | SHEET NO. 27 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	178
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG27.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 12/12/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -

BORING NO. RWB-55
Station 3081+39
Offset 81.30ft Right
Ground Surface Elev. 640.00 ft

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-very stiff (Fill)	4		
	5	2.3	18
	6	B	
637.50	8		
CLAY-gray-stiff to very stiff	12	3.3	20
	20	B	
	6		
-5	8	2.4	21
	10	B	
	12		
	14	2.4	21
	15	B	
	13		
	15	1.2	20
630.00 -10	20	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/7/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-55A
Station 3081+41
Offset 63.90ft Right
Ground Surface Elev. 637.90 ft

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

Groundwater Elev.:
First Encounter 636.4 ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT			
637.23			
4.0" CRUSHED STONE			
636.90			
CLAY to CLAY LOAM-gray-stiff to very stiff	3		
	4	2.5	17
	5	B	
	4		
	5	1.7	18
-5	7	B	
	5		
	7	1.9	19
	8	B	
	4		
	5	1.8	18
-10	6	B	
	4		
	5	1.2	14
	9	B	
	4		
	6	1.6	16
-15	9	B	
	5		
	5	1.8	21
	9	B	
	5		
	5	1.7	17
-20	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff to very stiff *(continued)*			
	5		
	9	2.0	18
	10	B	
	7		
612.90 -25	8	2.6	18
End Of Boring @ -25.0'. Boring backfilled with cuttings.	10	B	
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 12/12/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. -
Station -

BORING NO. RWB-56
Station 3082+22
Offset 80.30ft Right
Ground Surface Elev. 640.00 ft

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" CLAYEY TOPSOIL-dark brown to black			28
639.50	4		
CLAY LOAM-gray-very stiff	5	2.8	16
638.00	6	B	
CLAY-gray-stiff to very stiff	8		
	12	3.3	21
	15	B	
	12		
-5	14		17
	16		
	15		
	17	3.2	20
	19	B	
	12		
	15	1.0	20
630.00 -10	16	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

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HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 55-56

SCALE: NTS | SHEET NO. 28 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	179
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG28.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ahrnhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 10/7/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-56A
Station 3082+22
Offset 65.30ft Right
Ground Surface Elev. 638.00 ft

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

Groundwater Elev.:
First Encounter 636.5 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
637.42 7.0" ASPHALT			
637.00 5.0" CRUSHED STONE			
CLAY to CLAY LOAM-gray-stiff to very stiff	3		
	3	1.3	21
	5	B	
	3		
	5	1.5	21
-5	7	B	
	3		
	5	1.5	16
	9	B	
	5		
	6	1.9	19
-10	9	B	
	3		
	6	2.0	19
	8	B	
	5		
	8	2.8	13
-15	12	B	
	3		
	5	1.9	17
	8	B	
	7		
	7	1.8	14
-20	8	B	
CLAY to CLAY LOAM-gray-stiff to very stiff *(continued)*	7		
	9	2.8	19
615.00	13	B	
SANDY CLAY LOAM-gray-medium dense	5		
	9		9
613.00 -25	11		
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

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805 Ahrnhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245-A

SOIL BORING LOG

Page 1 of 1

Date 12/12/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE ____

STRUCT. NO. -
Station -

BORING NO. RWB-57
Station 3082+92
Offset 82.90ft Right
Ground Surface Elev. 641.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to very stiff	5		
	4	2.6	18
	4	B	
	7		
	10	2.6	20
	12	B	
becoming gray @ -4.0'	13		
-5	17	2.9	19
	16	B	
	18		
	20	1.4	20
	20	B	
	17		
	20	2.2	20
631.90 -10	24	B	
End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

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HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 56A-57

SCALE: NTS | SHEET NO. 29 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	180
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG29.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 2
Date 10/8/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-57A
Station 3082+97
Offset 66.70ft Right
Ground Surface Elev. 638.70 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.20 6.0" ASPHALT			
637.70 6.0" CRUSHED STONE			
CLAY-gray-stiff to very stiff	3		
	4 4		15
	3		
	3 4	1.2 B	22
-5			
	3		
	4 6	1.2 B	18
	3		
	4 6	1.7 B	20
-10			
	3		
	3 5	1.3 P	17
606.70 CLAY LOAM-gray-very stiff to hard			
	3		
	3 6	1.2 B	20
-15			
	3		
	5 7	1.2 B	23
	4		
	6 10	1.7 B	22
-20			
CLAY-gray-stiff to very stiff *(continued)*	4		
	7 11	2.1 B	21
	4		
	8 13	2.7 B	20
-25			
	4		
	12 16		28
	6		
	11 16	2.5 B	19
-30			
	8		
	12 14	2.4 B	16
-35			
	4		
	6 10	3.3 P	15
-40			

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

BBS, from 137 (Rev. 8-99)

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Geo Services, Inc.
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805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245-A
Page 2 of 2
Date 10/8/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO. -
Station -

BORING NO. RWB-57A
Station 3082+97
Offset 66.70ft Right
Ground Surface Elev. 638.70 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0 ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-very stiff to hard *(continued)*			
	12		
	16 20	4.5 P	15
593.70 End Of Boring @ -45.0'. Boring backfilled with cuttings.	-45		
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 12/12/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) **DESCRIPTION** Drainage Area Between Harlem Avenue & Foster Avenue **LOGGED BY** TZ

SECTION (1517 & 1415) R-3 **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hand Auger **HAMMER TYPE** ____

STRUCT. NO. -
Station -

BORING NO. RWB-58
Station 3083+71
Offset 81.40ft Right
Ground Surface Elev. 641.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
641.65 3.0" TOPSOIL-black			48
CLAY-brown & gray-stiff to very stiff	5		
	4 5	2.4 B	19
	6		
	9 12	2.9 B	21
becoming gray @ -4.0'	6		
-5	9 9	1.7 B	22
635.90 CLAY-gray-soft (Wet)	6		
	10 10	0.3 B	26
	6		
	7 10	0.4 B	25
631.90 -10 End Of Boring @ -10.0'. Boring backfilled with cuttings.			
-15			
-20			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 57A-58

SCALE: NTS | SHEET NO. 30 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	181
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG30.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/23/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-58A
Station 3083+73
Offset 66.70ft Right
Ground Surface Elev. 639.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT 638.17			
CRUSHED STONE-medium dense	4		
637.00	6	5.9	16
CLAY LOAM-gray-hard	4	B	
636.00			
CLAY-gray-stiff	3		
	3	1.3	23
-5	4	B	
	3		
	3	1.2	23
	4	B	
	2		
-10	3	1.2	22
	5	B	
	3		
	3	1.3	23
	5	B	
	2		
	3	1.'	23
-15	4	B	
	2		
	3	1.'	15
	4	B	
	3		
	5	1.6	20
-20	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	4		
	6	1.5	20
	7	B	
	5		
	4	1.5	21
614.00 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/25/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-59
Station 3084+49
Offset 65.60ft Right
Ground Surface Elev. 639.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.5" ASPHALT 639.53			
8.5" CONCRETE 638.82			
CLAY-brown-stiff to hard	2		
	2	3.0	22
	2	P	
	2		
-5	5	4.2	21
	6	B	
becoming gray @ -5.5'	3		
	4	6.7	22
	5	B	
	2		
-10	3	1.4	22
	4	B	
	2		
	3	1.4	22
	4	B	
	3		
-15	3	1.7	22
	5	B	
	3		
	4	1.6	21
	5	B	
	3		
-20	4	1.2	16
	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown-stiff to hard *(continued)*			
	4		
	5	1.8	19
	7	B	
	4		
	6	2.7	19
614.90 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-9588

SOIL BORING LOG

GSI Job No. 12245-A
Page 1 of 1
Date 10/25/13

ROUTE FAI 90 (I-90 - Kennedy Expressway) DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION (1517 & 1415) R-3 LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RWB-60
Station 3085+28
Offset 64.30ft Right
Ground Surface Elev. 640.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 616.0 ft ▼
Upon Completion 616.0 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.5" ASPHALT 639.54			
7.0" CONCRETE 638.96			
CLAY-gray-stiff	3		
	2		9
	2		
▼	4		
-5	3	1.2	23
	3	B	
	2		
	3	1.3	23
	4	B	
	3		
-10	4	1.2	23
	4	B	
	2		
	3	1.6	21
	4	B	
	3		
-15	3	1.6	20
	5	B	
	2		
	3	1.3	17
	4	B	
	3		
-20	4	1.2	22
	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	3		
	5	1.5	18
	6	B	
	4		
	5	1.2	18
615.00 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245-A HNTB, I-90 PHASE III\12245-A BORING LOGS\12245-A_LOG.GPJ 9/12/16

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 58A-60

SCALE: NTS | SHEET NO. 31 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	182
		CONTRACT NO. 60Y40		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = D160Y40-sht-SOIL LOG31.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-61
Station 3081+69
Offset 173.50ft Right
Ground Surface Elev. 653.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
653.57 4.0" ASPHALT			
652.73 10.0" CONCRETE			
CLAY LOAM-brown-hard	5		
	13		7
	14		
	7		
	9	7.9	18
-5	11	B	
	4		
	6	6.6	18
	11	B	
	4		
	6	6.3	18
-10	8	B	
643.40			
CLAY-gray-very stiff	3		
	6	3.3	20
	7	B	
640.90			
SILT-gray-medium dense	3		
	5		20
-15	6		
638.40			
CLAY to CLAY LOAM-gray-stiff to very stiff	3		
	4	2.4	22
	6	B	
	3		
	5	1.9	20
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff to very stiff *(continued)*			
	3		
	5	1.9	18
	6	B	
	3		
	4	1.3	14
628.90 -25	5	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-62
Station 3082+69
Offset 152.30ft Right
Ground Surface Elev. 652.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
651.63 4.5" ASPHALT			
650.79 10.0" CONCRETE			
CLAY-brown & gray-stiff to hard	3		
	4		8
	4		
	2		
	7	4.2	19
-5	10	B	
	3		
	6	4.7	20
	8	B	
	4		
	7	5.9	19
-10	12	B	
	3		
becoming gray @ -13.0'	4	2.4	21
	6	B	
	3		
	4	1.9	22
-15	5	B	
	3		
	5	2.7	20
	6	B	
	3		
	5	2.1	20
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	6	2.3	21
	6	B	
	3		
	6	2.1	21
627.00 -25	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-63
Station 3083+45
Offset 129.70ft Right
Ground Surface Elev. 649.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
648.50 6.0" ASPHALT			
647.92 7.0" CONCRETE			
CLAY-brown & gray-stiff to hard	3		
	3		20
	3		
	3		
	6	6.4	19
-5	9	B	
becoming gray @ -5.5'	4		
	6	3.6	19
	9	B	
	3		
	5	2.6	21
-10	5	B	
	3		
	5	2.1	21
	7	B	
	3		
	4	2.1	21
-15	6	B	
	3		
	4	1.7	22
	5	B	
	3		
	5	1.3	22
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray-stiff to hard *(continued)*			
	3		
	4	2.0	22
	6	B	
	3		
	4	1.1	20
624.00 -25	5	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2017\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 61-63

SCALE: NTS | SHEET NO. 32 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	183
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG32.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/29/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-64
Station 3084+16
Offset 119.60ft Right
Ground Surface Elev. 646.60 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
646.14 5.5" ASPHALT			
645.56 7.0" CONCRETE			
CLAY-brown-stiff to very stiff	2		
	3 3		21
becoming gray @ -3.0'			
	3		
-5	4 7	3.7 B	20
	3		
	3 4	1.4 B	22
	2		
-10	3 4	1.6 B	20
	2		
	3 5	1.5 B	22
	2		
-15	4 5	2.2 B	22
	2		
	4 5	1.2 B	21
	2		
-20	4 4	1.2 B	18

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown-stiff to very stiff *(continued)*			
	3		
	4 6	1.9 B	17
	3		
-25	5 7	2.3 B	18
621.60 End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/29/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-65
Station 3084+85
Offset 106.40ft Right
Ground Surface Elev. 644.00 ft

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

Groundwater Elev.:
First Encounter 626.5 ft ▼
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
643.38 7.5" ASPHALT			
642.71 8.0" CONCRETE			
SANDY CLAY LOAM-gray-very loose (Fill)	2		
	2		19
641.00 CLAY-gray-stiff to very stiff			
	2		
-5	3 4	2.2 B	22
	3		
	4 5	2.1 B	21
	3		
-10	4 6	2.6 B	21
	2		
	3 4	1.9 B	19
631.00 CLAY LOAM-gray-stiff	2		
-15	3 5	1.3 B	14
628.50 CLAY-gray-stiff to very stiff	2		
	4 5	1.3 B	20
	3		
-20	4 4	1.4 B	24

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	3 6	1.9 B	19
	4		
-25	5 7	2.2 B	19
	5		
	6 11	3.5 B	19
	4		
-30	5 8	2.1 B	20
613.50 CLAY LOAM-gray-stiff to very stiff			
	4		
-35	6 8	2.2 B	15
	4		
-40	7 7	3.7 B	18

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/29/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-65
Station 3084+85
Offset 106.40ft Right
Ground Surface Elev. 644.00 ft

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

Groundwater Elev.:
First Encounter 626.5 ft ▼
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff to very stiff *(continued)*			
	3		
	4 6	1.5 B	17
599.00 End Of Boring @ -45.0'. Boring backfilled with cuttings.			
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 64-65

SCALE: NTS | SHEET NO. 33 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	184
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG33.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/29/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-66
Station 3085+61
Offset 95.10ft Right
Ground Surface Elev. 641.80 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
641.26			
6.5" ASPHALT			
640.59			
8.0" CONCRETE			
0	1		
CLAY LOAM-brown & gray-stiff (Fill)	2		19
	2		
	2		
	3	1.4	14
-5	3	B	
636.30			
CLAY-gray-stiff			
	2		
	4	1.5	21
	5	B	
	2		
	4	1.0	16
-10	4	B	
	2		
	3	1.2	19
	4	B	
	2		
	3	1.3	19
-15	5	B	
	2		
	3	1.0	23
	4	B	
	3		
	4	1.3	21
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	3		
	4	1.5	22
	5	B	
	3		
	4	1.8	22
616.80 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/24/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-67
Station 3086+38
Offset 87.90ft Right
Ground Surface Elev. 640.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
639.33			
8.0" ASPHALT			
638.58			
9.0" CONCRETE			
0	2		
638.00	3	2.5	18
7.0" CRUSHED STONE-loose			
CLAY-gray-stiff to very stiff	3	P	
	2		
	3	1.4	20
-5	3	B	
	2		
	4	1.6	22
	4	B	
	3		
	4	1.8	21
-10	5	B	
	3		
	3	1.4	22
	4	B	
	3		
	4	1.8	20
-15	5	B	
	3		
	4	1.5	21
	5	B	
	3		
	4	1.3	21
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	6	1.7	20
	6	B	
	4		
	5	1.6	21
615.00 -25	7	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/24/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-68
Station 3087+22
Offset 80.80ft Right
Ground Surface Elev. 638.90 ft

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

Groundwater Elev.:
First Encounter 620.4 ft ▼
Upon Completion 620.9 ft ▽
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.36			
6.5" ASPHALT			
637.69			
8.0" CONCRETE			
0	4		
CRUSHED BRICK & STONE-loose	3		10
636.40			
CLAY-gray-stiff			
	2		
	2	1.0	24
-5	2	P	
	6		
	4	1.2	23
	4	B	
	2		
	3	1.4	22
-10	5	B	
628.40			
CLAY LOAM-gray-stiff			
	2		
	4	1.2	14
	5	B	
	2		
	3	1.2	16
-15	5	B	
	2		
	4	1.9	16
	5	B	
620.90 ▽			
SILTY LOAM-gray-loose ▼	4		
	4		15
-20	5		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM-gray-loose *(continued)* 618.40			
CLAY-gray-stiff	3		
	4	1.2	19
	4	B	
	4		
	5	1.0	21
613.90 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 66-68

SCALE: NTS | SHEET NO. 34 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	185
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG34.dgn

Geo Services, Inc.
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805 Ahrnhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/23/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-69
Station 3087+98
Offset 76.10ft Right
Ground Surface Elev. 638.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.57			
4.0" ASPHALT			
637.90			
8.0" CONCRETE			
CRUSHED BRICK & STONE-loose (Fill)	4		
	3		12
	3		
635.90			
CLAY-gray-stiff			
	2		
	3	1.2	23
-5	4	B	
	2		
	3	1.3	22
	3	B	
	2		
	3	1.3	23
-10	3	B	
	2		
	3	1.3	21
	4	B	
	3		
	4	1.3	20
-15	5	B	
	3		
	3	1.3	20
	5	B	
	3		
	4	1.5	19
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	3		
	4	1.1	18
	6	B	
	3		
	5	1.5	21
613.90 -25	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
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805 Ahrnhirst Court, Suite 204
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(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/23/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-70
Station 3088+64
Offset 73.20ft Right
Ground Surface Elev. 638.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
637.54			
5.5" ASPHALT			
636.83			
8.5" CONCRETE			
CRUSHED BRICK & STONE-loose	5		
	3		11
	3		
635.00			
CLAY-gray-stiff to very stiff			
	1		
	3	2.1	23
-5	3	B	
	3		
	5	1.5	23
	6	B	
	3		
	3	1.0	24
-10	5	B	
	2		
	3	3.0	22
	5	P	
	2		
	4	1.8	20
-15	5	B	
	3		
	4	1.2	21
	5	B	
	2		
	3	1.3	22
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	5	1.8	21
	6	B	
	7		
613.00 -25	9	1.7	21
	11	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 69-70

SCALE: NTS | SHEET NO. 35 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	186
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG35.dgn

Geo Services, Inc.
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805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/23/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-71
Station 3089+33
Offset 71.10ft Right
Ground Surface Elev. 638.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.5" ASPHALT 637.54			
8.5" CONCRETE 636.83			
CRUSHED BRICK & STONE-medium dense	6		
	7		9
	7		
635.00			
CLAY-gray-stiff to very stiff			
	3		
	4	1.3	23
-5	4	B	
	3		
	4	1.3	18
	5	B	
	2		
	4	2.0	21
-10	6	B	
	2		
	4	2.2	20
	5	B	
625.00			
CLAY to CLAY LOAM-gray-stiff	2		
	4	1.8	12
-15	5	B	
	3		
	3	1.0	19
	6	B	
	3		
	3	1.0	23
-20	4	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff *(continued)*			
	2		
	5	1.4	19
	5	B	
	3		
	6	1.5	13
-25	10	B	
	3		
	5	1.8	20
	6	B	
	3		
	4	1.9	24
-30	6	B	
	3		
	4	1.9	24
	6	B	
	3		
	4	1.1	14
-35	5	B	
	3		
	4	1.8	20
-40	6	B	

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 IIHTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
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GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/23/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-71
Station 3089+33
Offset 71.10ft Right
Ground Surface Elev. 638.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY to CLAY LOAM-gray-stiff *(continued)*			
	3		
	5	1.6	14
593.00 -45	7	B	
End Of Boring @ -45.0'. Boring backfilled with cuttings.			
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/24/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-72
Station 3090+24
Offset 70.30ft Right
Ground Surface Elev. 638.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.5" ASPHALT 637.63			
8.5" CONCRETE 636.92			
11.0" CRUSHED BRICK & STONE-loose 636.00	2		
	3		9
CLAY-gray-stiff to very stiff	3		
	2		
	3	1.5	21
-5	3	B	
	4		
	5	1.9	20
	6	B	
	4		
	6	2.3	20
-10	7	B	
	4		
	5	2.3	20
	5	B	
	4		
	6	1.9	20
-15	7	B	
	3		
	5	1.8	20
	5	B	
	3		
	5	2.0	21
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	5	2.9	22
	7	B	
	4		
	6	2.2	22
-25	7	B	
613.00			
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 IIHTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 71-72

SCALE: NTS | SHEET NO. 36 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	187
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG36.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aimhirst Court, Suite 204
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(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/24/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-73
Station 3090+95
Offset 70.20ft Right
Ground Surface Elev. 637.70 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
637.24 5.5" ASPHALT			
636.49 9.0" CONCRETE			
	2		
635.70 9.5" CRUSHED BRICK & STONE-loose	3	1.8	19
	2	P	
CLAY-gray-stiff to very stiff			
	2		
	3	2.6	21
-5	4	B	
	3		
	4	1.4	20
	6	B	
	3		
	4	2.1	21
-10	5	B	
	3		
	4	2.3	21
	7	B	
	3		
	4	2.2	20
-15	6	B	
622.20 SILTY LOAM-gray-medium dense			
	4		
	5		17
	7		
619.70 CLAY-gray-stiff to very stiff			
	3		
	4	2.2	20
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	6	1.9	21
	7	B	
	4		
	5	2.3	20
-25	7	B	
612.70 End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
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805 Aimhirst Court, Suite 204
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(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/25/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** JZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-74
Station 3091+63
Offset 70.80ft Right
Ground Surface Elev. 637.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.58 5.0" ASPHALT			
635.92 8.0" CONCRETE			
CLAY-gray-stiff to very stiff			
	2		
	2		11
	3		
	2		
	3	1.6	21
-5	4	B	
	3		
	4	1.9	22
	4	B	
	3		
	5	2.1	20
-10	6	B	
	3		
	4	2.2	21
	6	B	
	3		
	4	2.1	19
-15	7	B	
	4		
	6	2.6	16
	9	B	
619.00 SANDY CLAY LOAM with GRAVEL-gray-medium dense			
	5		
	7		11
-20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
616.50			
CLAY-gray-very stiff			
	4		
	5	2.3	19
	6	B	
	4		
	5	3.6	19
-25	7	B	
612.00 End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE. SOIL BORING LOGS RWB 73-74
		DRAWN JAB	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -		
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -		SCALE: NTS | SHEET NO. 37 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	188
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG37.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245
Page 1 of 2
Date 10/25/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-75
Station 3092+34
Offset 70.40ft Right
Ground Surface Elev. 637.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.71			
3.5" ASPHALT			
636.17			
6.5" CONCRETE			
	2		
CLAY LOAM-gray-very stiff (Possible Fill)	3	2.8	17
	3	P	
634.00			
CLAY-gray-stiff to very stiff	2		
	3	2.0	21
-5	5	B	
	3		
	5	1.3	22
	6	B	
	3		
	5	1.9	21
-10	7	B	
	3		
	6	2.5	19
	7	B	
	3		
	5	2.7	20
-15	6	B	
	3		
	5	2.4	20
	7	B	
	3		
	5	1.6	22
-20	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	3		
	5	1.9	20
	5	B	
	4		
	5	1.8	20
-25	7	B	
	6		
	8	2.0	19
	9	B	
	4		
	5	2.3	21
-30	7	B	
	9		
	11	2.9	20
-35	12	B	
600.00			
CLAY LOAM-gray-very stiff to hard	7		
	9	4.0	16
-40	11	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245
Page 2 of 2
Date 10/25/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-75
Station 3092+34
Offset 70.40ft Right
Ground Surface Elev. 637.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-very stiff to hard *(continued)*			
	7		
End Of Boring @ -45.0'. Boring backfilled with cuttings.	8	3.7	17
592.00 -45	11	B	
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/8/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-76
Station 3093+03
Offset 70.30ft Right
Ground Surface Elev. 636.90 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 634.9 ft ▼
Upon Completion 624.9 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT			
636.07			
SAND & GRAVEL-brown-medium dense (Fill)	9		
635.40	7		5
	6		
CLAY-gray-stiff	2		
	3	1.0	23
-5	5	B	
	3		
	4	1.0	24
	5	P	
	3		
	4	1.0	22
-10	5	B	
	3		
▽	5	1.5	22
	5	B	
	4		
	5	1.5	21
-15	6	B	
	4		
	5	1.5	19
	6	B	
	4		
	5	1.6	20
-20	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	4		
	4	1.6	21
	6	B	
	4		
	4	1.5	17
611.90 -25	5	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 75-76

SCALE: NTS | SHEET NO. 38 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	189
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG38.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/8/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SW 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-77
Station 3093+60
Offset 68.50ft Right
Ground Surface Elev. 636.90 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
636.07 10.0" ASPHALT			
CRUSHED STONE & GRAVEL-brown & gray-medium dense (Fill)	9		
	10		3
	10		
633.90 CLAY-gray-stiff			
	2		
-5	3	1.0	23
	3	B	
	2		
	3	1.2	22
	4	B	
	3		
-10	5	1.4	21
	5	B	
	3		
	4	1.5	22
	6	B	
	3		
	4	1.3	21
-15	5	B	
	3		
	4	1.2	20
	5	B	
	3		
-20	4	1.2	22
	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	3		
	3	1.3	21
	4	B	
	3		
-25 611.90	5	1.4	22
	6	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/8/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-78
Station 3094+51
Offset 66.70ft Right
Ground Surface Elev. 636.00 ft

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

Groundwater Elev.:
First Encounter 617.0 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
635.17 10.0" ASPHALT			
SAND & GRAVEL-gray-medium dense (Fill)	11		
	8		3
	9		
633.00 CLAY-gray-stiff			
	2		
-5	3	1.8	23
	4	P	
	3		
	3	1.3	23
	5	B	
	3		
-10	4	1.3	21
	5	B	
	2		
	3	1.2	21
	4	B	
	3		
	4	1.9	22
-15	5	B	
	3		
	4	1.9	21
	6	B	
618.00 SANDY LOAM-gray-medium dense			
-20	4		
	8		14
	9		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
615.50 SANDY LOAM-gray-medium dense *(continued)*			
CLAY-gray-stiff to very stiff	4		
	5	1.5	21
	7	B	
	3		
-25	4	2.1	21
	6	B	
611.00 End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/8/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-79
Station 3095+16
Offset 69.20ft Right
Ground Surface Elev. 636.00 ft

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

Groundwater Elev.:
First Encounter 630.0 ft ▼
Upon Completion 624.0 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
635.17 10.0" ASPHALT			
634.50 8.0" CRUSHED STONE	10		
CLAY-gray-stiff to hard	5	4.2	17
	7	B	
	2		
	3		
-5	3	1.3	23
	4	B	
	3		
	3		
	3	1.3	15
	5	B	
	3		
-10	4	1.3	19
	6	B	
625.50 CLAY LOAM-gray-stiff			
	3		
▽	4	1.4	13
	6	B	
623.00 CLAYEY SAND & GRAVEL-gray-medium dense			
	3		
-15	5		10
	5		
620.50 SANDY CLAY LOAM-gray-medium dense			
	3		
	4		16
	6		
618.00 CLAY-gray-stiff			
	3		
-20	5	1.4	19
	6	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff *(continued)*			
	3		
	4	1.2	24
	5	B	
	3		
-25 611.00	4	1.2	24
	4	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 77-79

SCALE: NTS | SHEET NO. 39 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	190
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG39.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/9/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-80
Station 3095+87
Offset 70.30ft Right
Ground Surface Elev. 636.80 ft

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

Groundwater Elev.:
First Encounter 635.8 ft ▼
Upon Completion 620.8 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT 636.13			
10.0" CRUSHED STONE 635.30			
CLAY-gray-medium stiff to stiff	8		
	4		5
	7		
	3		
	4	1.5	23
-5	5	B	
	3		
	4	1.3	25
	5	B	
	3		
	3	0.7	25
-10	5	B	
	4		
	5	0.9	22
	6	B	
	3		
	4	1.2	19
-15	8	B	
621.30			
SILTY LOAM-gray-medium dense	6		
	7		13
	9		
618.80			
CLAY-gray-medium stiff to stiff	4		
	4	0.9	18
-20	9	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-medium stiff to stiff *(continued)*			
	4		
	7	1.3	21
	8	B	
	5		
	7	1.3	22
611.80 -25	9	P	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/10/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION -- LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-81
Station 3096+63
Offset 70.00ft Right
Ground Surface Elev. 637.10 ft

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

Groundwater Elev.:
First Encounter 635.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT 636.52			
12.0" CLAYEY GRAVEL & STONE-brown-loose (Fill) 635.52	3		
CLAY-brown-medium stiff to stiff	4		10
	3		
	3	0.9	24
-5	4	B	
	3		
	4	1.3	23
	5	B	
	3		
	4	1.2	21
-10	6	B	
	3		
	4	1.4	22
	6	B	
	5		
	5	1.1	21
-15	6	B	
	3		
	3	0.5	19
	4	B	
	3		
	3	1.1	17
-20	3	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown-medium stiff to stiff *(continued)*			
	3		
	4	1.2	20
	5	B	
614.10			
SANDY LOAM with GRAVEL-gray-medium dense	5		
	7		10
-25	10		
	9		
	11		14
	14		
609.10			
SILTY SAND with GRAVEL-gray-medium dense	5		
	7		10
-30	10		
605.10			
CLAY-gray-medium stiff to stiff	3		
	4	1.1	19
-35	7	B	
	5		
	9	0.6	24
-40	11	B	

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/10/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY TZ

SECTION -- LOCATION SE 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-81
Station 3096+63
Offset 70.00ft Right
Ground Surface Elev. 637.10 ft

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

Groundwater Elev.:
First Encounter 635.6 ft ▼
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-medium stiff to stiff *(continued)*			
	6		
	8	1.4	22
End Of Boring @ -45.0'. Boring backfilled with cuttings. 592.10 -45	11	B	
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB	USER NAME = mkirby	DESIGNED MJK	REVISED - -
		DRAWN JAB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
	PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 80-81

SCALE: NTS | SHEET NO. 40 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	191
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG40.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/9/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-82
Station 3097+39
Offset 70.10ft Right
Ground Surface Elev. 638.70 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
638.20 6.0" ASPHALT			
637.70 6.0" CRUSHED STONE			
CLAY-gray-stiff to very stiff	3		
	3		21
	4		
	5		
	5	2.3	22
-5	9	B	
	6		
	7	2.2	22
	9	B	
	6		
	6	1.6	21
-10	20	B	
	5		
	7	2.0	21
	9	B	
	6		
	7	1.9	20
-15	9	B	
	4		
	6	1.4	21
	7	B	
	5		
	7	1.9	18
-20	9	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	5		
	8	1.9	19
	8	B	
615.70			
SANDY CLAY LOAM-gray-medium dense			
	6		
	6		11
613.70 -25	9		
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/9/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-83
Station 3098+10
Offset 68.30ft Right
Ground Surface Elev. 639.60 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
639.02 7.0" ASPHALT			
638.18 10.0" CRUSHED STONE			
CLAY-gray-stiff to very stiff	15		
	10		18
	5		
	3		
	4	2.4	21
-5	7	B	
	4		
	6	2.5	21
	9	B	
	4		
	5	1.9	22
-10	6	B	
	3		
	4	1.2	23
	7	B	
	4		
	4	1.2	22
-15	7	B	
	4		
	5	1.7	16
	7	B	
	5		
	6	1.5	21
-20	8	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	4		
	6	1.7	21
	7	B	
616.60			
SANDY CLAY LOAM-gray-medium dense			
	6		
	7		9
614.60 -25	11		
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

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GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/9/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** CW

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-84
Station 3098+90
Offset 70.10ft Right
Ground Surface Elev. 641.00 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
640.42 7.0" ASPHALT			
640.00 5.0" CRUSHED STONE			
CLAY-gray-stiff to very stiff	6		
	5	3.1	19
	6	B	
	3		
	4	1.5	23
-5	6	B	
	3		
	4	1.3	18
	7	B	
	3		
	3	1.2	22
-10	5	B	
	3		
	4	1.5	23
	5	B	
	4		
	4	1.5	18
-15	7	B	
	3		
	4	1.2	22
	7	B	
	4		
	4	1.2	22
-20	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	4		
	6	1.4	16
	7	B	
	4		
	7	1.8	20
616.00 -25	9	B	
End Of Boring @ -25.0'. Boring backfilled with cuttings.			
-30			
-35			
-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2013\12245 HNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -
	DRAWN JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 82-84

SCALE: NTS | SHEET NO. 41 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	192
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG41.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ
SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**
COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-85
Station 3099+67
Offset 71.80ft Right
Ground Surface Elev. 641.80 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" ASPHALT 641.55				CLAY-gray-medium stiff to stiff *(continued)* 621.30			
5.0" CRUSHED STONE 641.13				CLAY LOAM-gray-stiff to very stiff	6		
CLAY LOAM-brown & gray-hard	8				7	1.5	13
	7	5.6	16		8	B	
	7	B					
638.80							
CLAY-gray-medium stiff to stiff					7		
	3						
	2	0.9	25		7	2.2	12
-5	5	B			10	B	
				616.80 -25			
				End Of Boring @ -25.0'. Boring backfilled with cuttings.			
	2						
	3	0.6	25				
	4	B					
	3						
-10	3	0.9	25	-30			
	4	B					
	3						
	4	0.9	24				
	5	B					
	2						
-15	3	1.3	23	-35			
	5	B					
	4						
	4	1.1	23				
	5	B					
	4						
-20	5	1.1	20	-40			
	8	B					

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ammerst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/11/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ
SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**
COUNTY Cook **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station
BORING NO. RWB-86
Station 3100+29
Offset 75.00ft Right
Ground Surface Elev. 642.70 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.0" ASPHALT 642.28				CLAY LOAM-gray-stiff *(continued)* 622.20			
6.0" CRUSHED STONE 641.78				CLAY-gray-stiff	4		
CLAY LOAM-brown-very stiff	5				6	1.2	20
	7	3.8	19		9	B	
	7	P					
639.70							
CLAY-gray-medium stiff to stiff					6		
	2						
	2	1.1	25		5	1.5	21
-5	3	B			7	B	
				617.70 -25			
				End Of Boring @ -25.0'. Boring backfilled with cuttings.			
	2						
	3	0.9	23				
	3	B					
	2						
-10	3	0.9	25	-30			
	3	B					
	2						
	3	1.2	23				
	5	B					
	3						
-15	4	1.5	22	-35			
	5	B					
	3						
	3	1.0	23				
	4	B					
624.70							
CLAY LOAM-gray-stiff	6						
	5	1.1	14				
-20	7	B		-40			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2012\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -	
	DRAWN JAB	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -	
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 85-86

SCALE: NTS | SHEET NO. 42 OF 43 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	193
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG42.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ahrnhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/10/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-87
Station 3101+04
Offset 79.20ft Right
Ground Surface Elev. 643.70 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
643.20			
6.0" ASPHALT			
642.70			
6.0" CRUSHED STONE			
CLAY LOAM-brown & gray-very stiff (Possible Fill)	4		
	5	3.0	13
	6	P	
640.70			
CLAY-gray-medium stiff to stiff			
	3		
	3	1.9	24
-5	3	B	
	2		
	3	1.1	23
	4	B	
	3		
	4	1.3	24
-10	5	B	
	2		
	3	0.9	25
	4	B	
	3		
	3	0.6	25
-15	3	B	
	2		
	3	1.1	24
	4	B	
	2		
	3	1.2	22
-20	5	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
623.20			
CLAY-gray-medium stiff to stiff *(continued)*			
CLAY LOAM-gray-stiff	3		
	4	1.0	15
	4	P	
	3		
	4	1.0	22
-25	4	P	
618.20			
SANDY CLAY LOAM with GRAVEL-gray-medium dense			
	3		
	6		12
	7		
615.70			
CLAY-gray-medium stiff			
	3		
	4	0.6	22
-30	5	B	
	6		
	7	2.3	13
-35	10	B	
	5		
	6	1.1	21
-40	7	B	
611.70			
SANDY CLAY LOAM-gray-medium dense			
606.70			
CLAY-gray-stiff to very stiff			

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

BBS, from 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ahrnhirst Court, Suite 204
Naperville, Illinois 60565
(630) 355-0588

GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/10/13

ROUTE -- **DESCRIPTION** I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) **LOGGED BY** TZ

SECTION -- **LOCATION** SE 1/4, **SEC.** 1, **TWP.** T40N, **RNG.** R12E, 3rd **PM**

COUNTY Cook **DRILLING METHOD** Hollow Stem Auger/Rotary **HAMMER TYPE** CME Automatic

STRUCT. NO.
Station

BORING NO. RWB-87
Station 3101+04
Offset 79.20ft Right
Ground Surface Elev. 643.70 ft

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

Groundwater Elev.:
First Encounter Dry To -10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff *(continued)*			
	6		
End Of Boring @ -45.0'. Boring backfilled with cuttings.	8	2.3	19
598.70	13	B	
-45			
-50			
-55			
-60			

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

BBS, from 137 (Rev. 8-99)

Z:\PROJECTS\2017\12245 IHNTB, I-90 FROM I-190 TO HARLEM AVENUE (PTB 162-001)\12245 BORING LOGS\12245_LOG.GPJ 2/7/14

HNTB

USER NAME = mkirby	DESIGNED MJK	REVISED - -
	DRAWN JAB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED MAM	REVISED -
PLOT DATE = 8/15/2017	DATE 8/21/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 NOISE WALLS FROM CUMBERLAND AVE. TO HARLEM AVE.
SOIL BORING LOGS
RWB 87

SCALE: NTS | SHEET NO. 43 OF 43 SHEETS | STA. | TO STA.

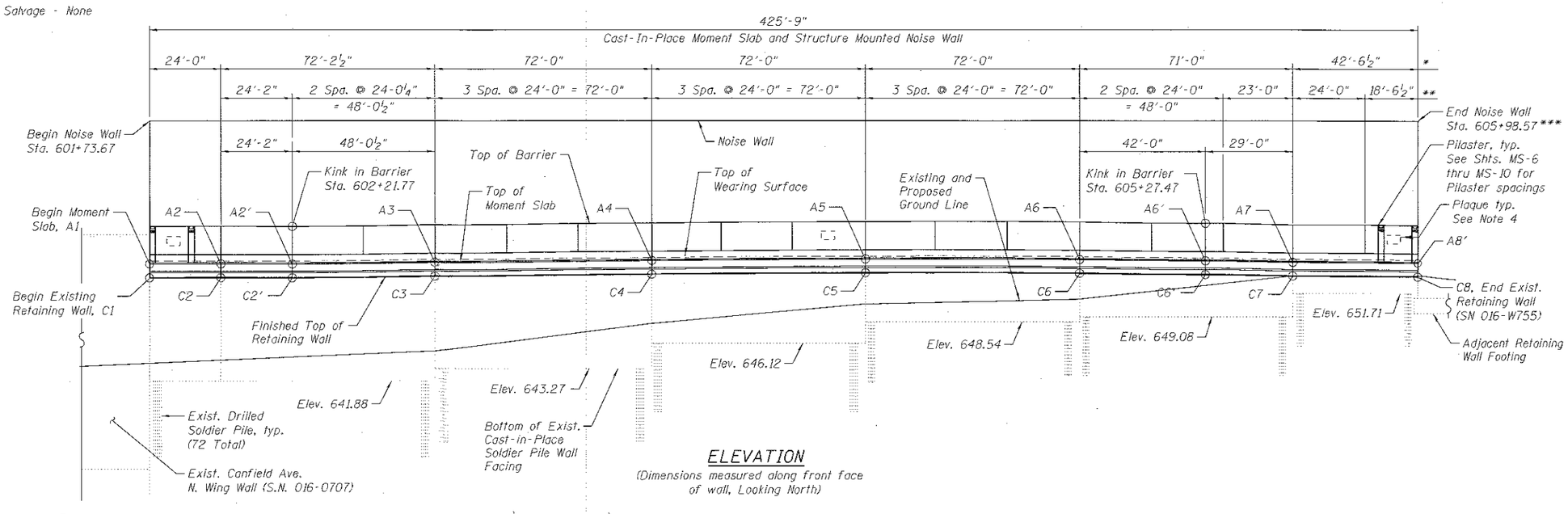
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) I-14	COOK	353	194
		CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

FILE NAME = D160Y40-sht-SOIL LOG43.dgn

Bench Mark: TBM #19 (ELEV. 638.00)-Square cut on top of barrier wall by light pole (FC13) mile marker 80.40 on North side WB I-90 just East of Canfield.

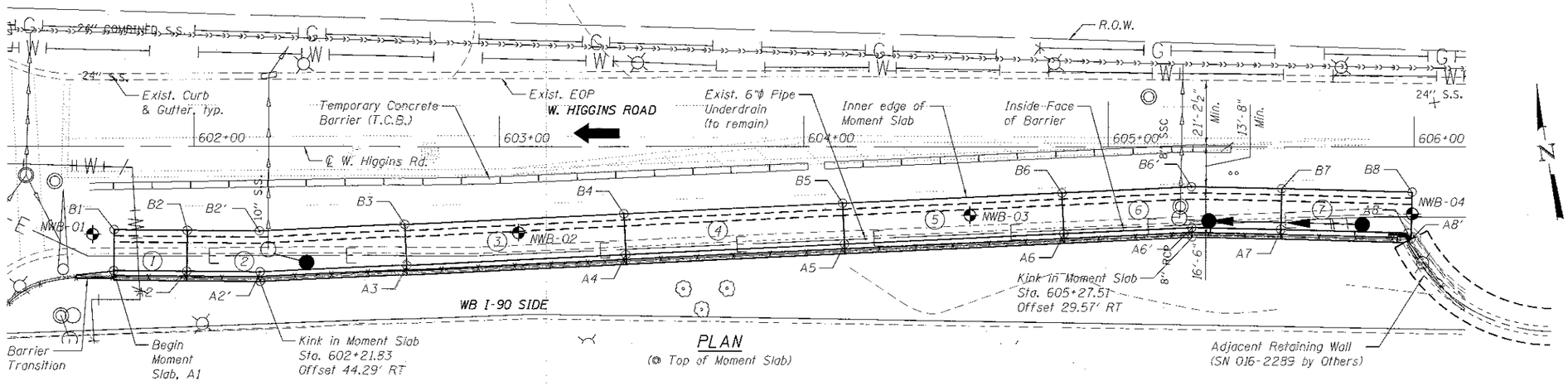
Existing Structure: Existing structure, constructed in 2000, is a soldier pile retaining wall (S.N. 016-W755). The soldier pile wall is approximately 429 feet long with a max. exposed height of 14'-2". A chain link fence is mounted on top of the wall. Top portion of wall will be removed and a Moment Slab and associated noise wall will be constructed in this contract. Existing wall to remain. Traffic will be maintained in westbound direction during construction. Eastbound Higgins Rd. traffic will be detoured according to Detour Plan.

Salvage - None



ELEVATION

(Dimensions measured along front face of wall, Looking North)



PLAN

(℄ Top of Moment Slab)

LOADING

Allow 35 psf wind load for Structure Mounted Noise Wall (see Special Provision)
Maximum Dead Load not to exceed 55 psf of Noise Wall face area.
Traffic Impact per AASHTO LRFD Bridge Specifications
Approx. Noise Wall Height = 21'-0"

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 7th Edition (2014) with 2016 Interim Revisions

DESIGN STRESSES

New Construction
f'c = 4,000 psi (Superstructure Concrete)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
Existing Construction
f'c = 3,480 psi
fy = 58,000 psi (Reinforcement)
fy = 50,000 psi (Soldier Piles)

STATE OF ILLINOIS
BRIAN L. UMBRIGHT
081-005684
CHICAGO, IL
LICENSED STRUCTURAL ENGINEER

Signed: Brian Umbright
Date: 01/19/2018
Exp: 11/30/2018
Sheets: S-1 thru S-17

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

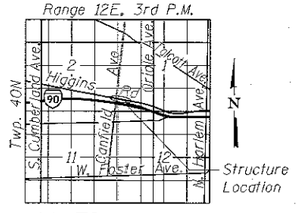
LEGEND:

- E — Exist. Electrical Line
- X — Exist. Fence
- G — Exist. Gas Line
- Exist. Storm Sewer
- W — Exist. Water Line
- Exist. Combined Sewer
- Prop. Storm Sewer
- Boring Location
- Proposed Catch Basin
- Exist. Catch Basin
- (X) Moment Slab Segment Number
- Temporary Travel Lane
- Exist. Light Pole

NOTES:

1. Horizontal dimensions measured along front face (I-90 side) of Existing Retaining Wall U.N.O.
2. Stations & offsets are relative to ℄ W. Higgins Road.
3. Stations, offsets & elevations for control points are provided on Sheet MS-3.
4. Provide Plaque on inside face (W. Higgins Road side) of Barrier. See Moment Slab/ Barrier Elevation for Locations.

*Expansion Joint Spacing in Barrier and Moment Slab (along front face (I-90 side) of Existing Retaining Wall)
**Construction Joint Spacing in Barrier
***For information only. Coordinate with adjacent Retaining/Noise Wall (SN 016-2289) to determine exact location.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
W. HIGGINS ROAD
F.A.I. RTE. 90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 601+73.67 TO STA. 605+98.57
STRUCTURE NO. 016-2293

exp U.S. Services Inc. Chicago, IL BUILDINGS · EARTH & ENVIRONMENT · ENERGY INDUSTRIAL · INFRASTRUCTURE · SUSTAINABILITY

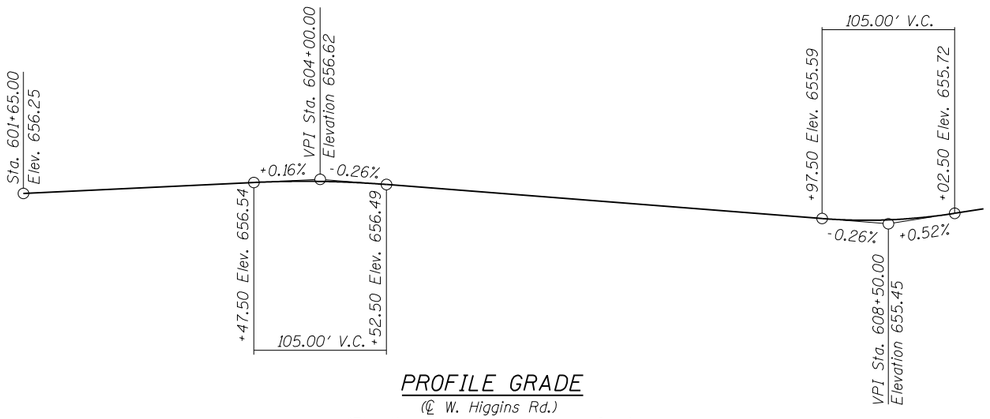
USER NAME = $USER$	DESIGNED	STD	REVISED
	CHECKED	KK	REVISED
PLOT SCALE = $SCALE$	DRAWN	STD	REVISED
PLOT DATE = 1-17-2018	DATE	8/21/2017	REVISED

FILE NAME = $FILEL$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

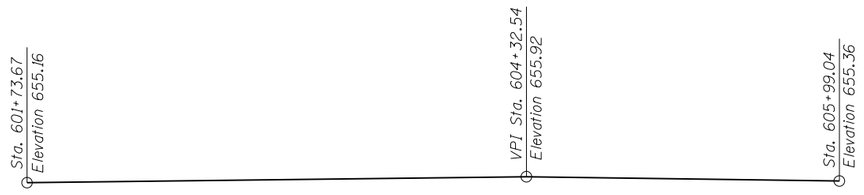
GENERAL PLAN & ELEVATION
MOMENT SLAB (S.N. 016-2293)
SHEET NO. MS-1 OF 17 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-90	(1517 & 1415) R-2	COOK	353	195
	S.N. 016-2293	CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			



PROFILE GRADE

(℄ W. Higgins Rd.)
(Elevations at top of wearing surface)



PROPOSED FLOWLINE

(Flowline along Inside Face of Barrier for Moment Slab
Elevations at top of proposed wearing surface)

EXISTING STRUCTURE PLANS

The existing structure plans are available from the IDOT - District One, 201 West Center Court, Schaumburg, Illinois 60196. The Contractor shall make an appointment with the Chief of Bureau of Maintenance (217.782.7820) with at least 48 hours notice to review or retrieve available microfilm drawings of the existing structure. The legibility and completeness of these plans is not guaranteed and no responsibility is assumed by the Department for their accuracy. Information is furnished for whatever value may be derived by the Contractor, and is to be used solely at the Contractor's risk.

GENERAL NOTES

1. Reinforcing bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315, latest edition.
2. Reinforcement bar bending dimensions are out to out.
3. Reinforcing bars designated "(E)" shall be epoxy coated.
4. All exposed concrete edges shall have a $^{3}/_{4}$" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground line.
5. Bars noted thus, 3x2-#5 indicates 3 lines of #5 bars with 2 lengths of bars per line.
6. No construction joints except those shown on the plans will be allowed unless otherwise approved by the Engineer.
7. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
8. Plan dimensions and details relative to existing structure are taken from existing plans, and are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

STA. 601+73.67
TO 605+98.57
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 90
SEC. (1517 & 1415) R-2
STR. NO. 016-2293

NAME PLATE

See Std. 515001

PLAQUE __
MOMENT SLAB AREA
DO NOT OPEN-CUT
ROADWAY FROM
PLAQUE 1 TO PLAQUE 3

PLAQUE

(Paid for as Name Plate)

PLAQUE LOCATIONS

Plaque No.	Station*
1	601+78.43
2	603+78.33
3	605+92.79

* Stations provided at top left corner of Plaques

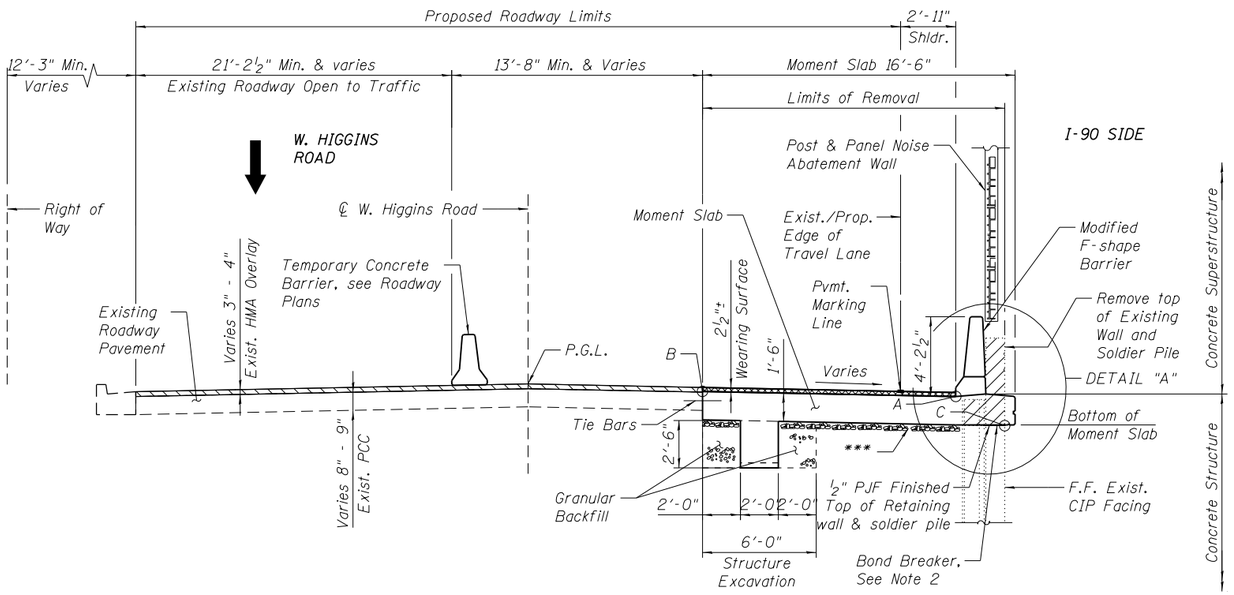
INDEX OF SHEETS

MS-1 General Plan & Elevation
MS-2 Index of Sheets, General Notes & Total Bill of Material
MS-3 Sections & Details
MS-4 Partial Structure Removal - 1 of 2
MS-5 Partial Structure Removal - 2 of 2
MS-6 Moment Slab Plan & Elevation - 1 of 5
MS-7 Moment Slab Plan & Elevation - 2 of 5
MS-8 Moment Slab Plan & Elevation - 3 of 5
MS-9 Moment Slab Plan & Elevation - 4 of 5
MS-10 Moment Slab Plan & Elevation - 5 of 5
MS-11 Moment Slab & Barrier Details - 1 of 4
MS-12 Moment Slab & Barrier Details - 2 of 4
MS-13 Moment Slab & Barrier Details - 3 of 4
MS-14 Moment Slab & Barrier Details - 4 of 4
MS-15 Bar List & Details
MS-16 Boring Logs - 1
MS-17 Boring Logs - 2

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Subbase Granular Material, Type B 4"	Sq Yd	650
Structure Excavation	Cu Yd	504
Concrete Structures	Cu Yd	471.5
Concrete Superstructure **	Cu Yd	81.1
Protective Coat	Sq Yd	256
Reinforcement Bars, Epoxy Coated	Pound	83570
Name Plates	Each	4
Barrier Wall Reflectors, Type C	Each	6
Noise Abatement Wall Anchor Rod Assembly	Each	36
Granular Backfill for Structures	Cu Yd	158
Fence Removal	Foot	426
Partial Removal of Soldier Pile Wall	Sq Ft	2076

** Includes cost of Traffic Barriers and Pilasters.



TYPICAL SECTION THRU MOMENT SLAB & NOISE WALL

(Looking East)

GEOMETRIC CONTROL POINTS - STATIONS, OFFSETS & ELEVATIONS

INSIDE FACE OF BARRIER (A)

Location	Station	Offset ('RT)	Elevation
A1	601+73.68	40.75	654.95
A2	601+97.68	40.97	655.02
A2'	602+21.77	41.17	655.09
A3	602+69.67	38.88	655.23
A4	603+41.59	35.36	655.44
A5	604+13.51	31.87	655.66
A6	604+85.42	28.47	655.53
A6'	605+27.47	26.45	655.39
A7	605+56.55	27.07	655.29
A8	605+98.01	28.12	655.15
A8'	605+99.04	30.12	655.15

INNER EDGE OF MOMENT SLAB (B)

Location	Station	Offset ('RT)	Elevation
B1	601+73.81	27.37	655.32
B2	601+97.79	27.60	655.34
B2'	602+21.51	27.79	655.35
B3	602+69.02	25.52	655.53
B4	603+40.94	22.00	655.78
B5	604+12.87	18.51	655.92
B6	604+84.78	15.11	655.86
B6'	605+27.29	13.07	655.72
B7	605+56.83	13.70	655.57
B8	605+99.43	14.78	655.43

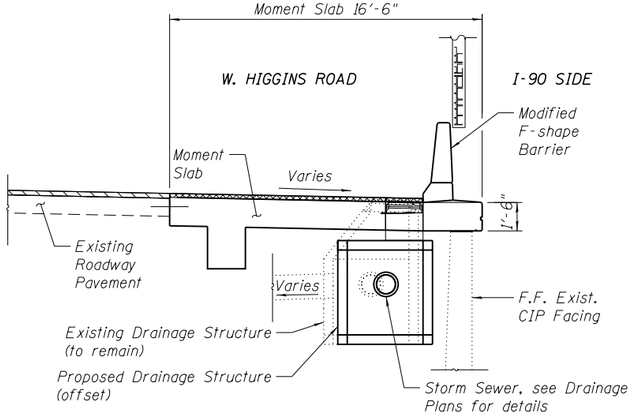
FINISHED TOP OF EXISTING RETAINING WALL (C)

Location	Station	Elevation
C1	601+73.66	653.41
C2	601+97.66	653.48
C2'	602+21.83	653.55
C3	602+69.80	653.69
C4	603+41.71	653.90
C5	604+13.63	654.12
C6	604+85.55	653.99
C6'	605+27.50	653.85
C7	605+56.49	653.75
C8	605+98.51	653.61

A Stations, offsets and elevations for Inside Face of Barrier (at elevation 2½" below top of wearing surface) are provided w.r.t. this point, see Plan & Elevation views.

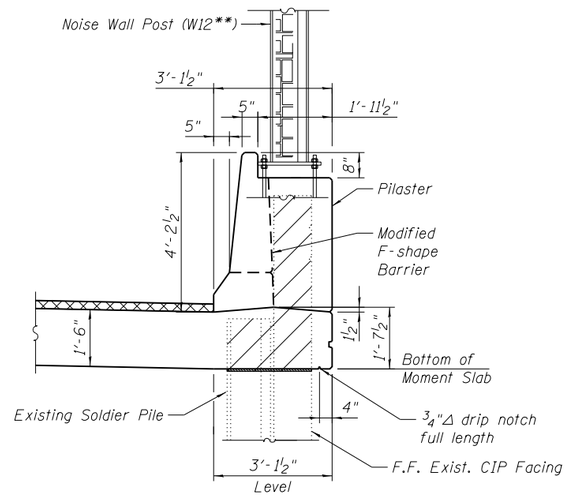
B Stations and offsets for Inner Edge of Moment Slab (at elevation 2½" below top of wearing surface) are provided w.r.t this point, see Plan view.

C Stations and elevations for finished top of Retaining Wall (bottom of ½" PJF) are provided w.r.t. this point, see Elevation view.

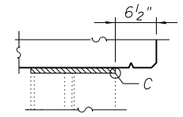


SECTION THRU MOMENT SLAB & NOISE WALL

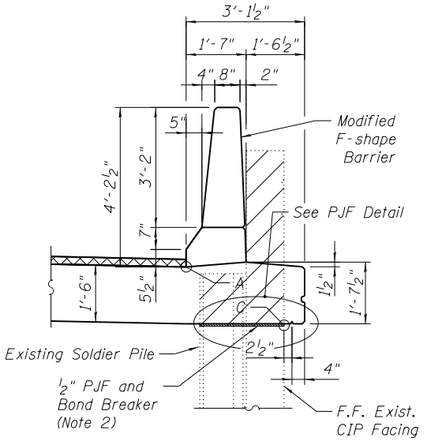
(℄ Catch Basin Location)



SECTION THRU MOMENT SLAB & NOISE WALL PILASTER



PJF DETAIL



DETAIL "A"

LEGEND

Temporary Travel Lanes

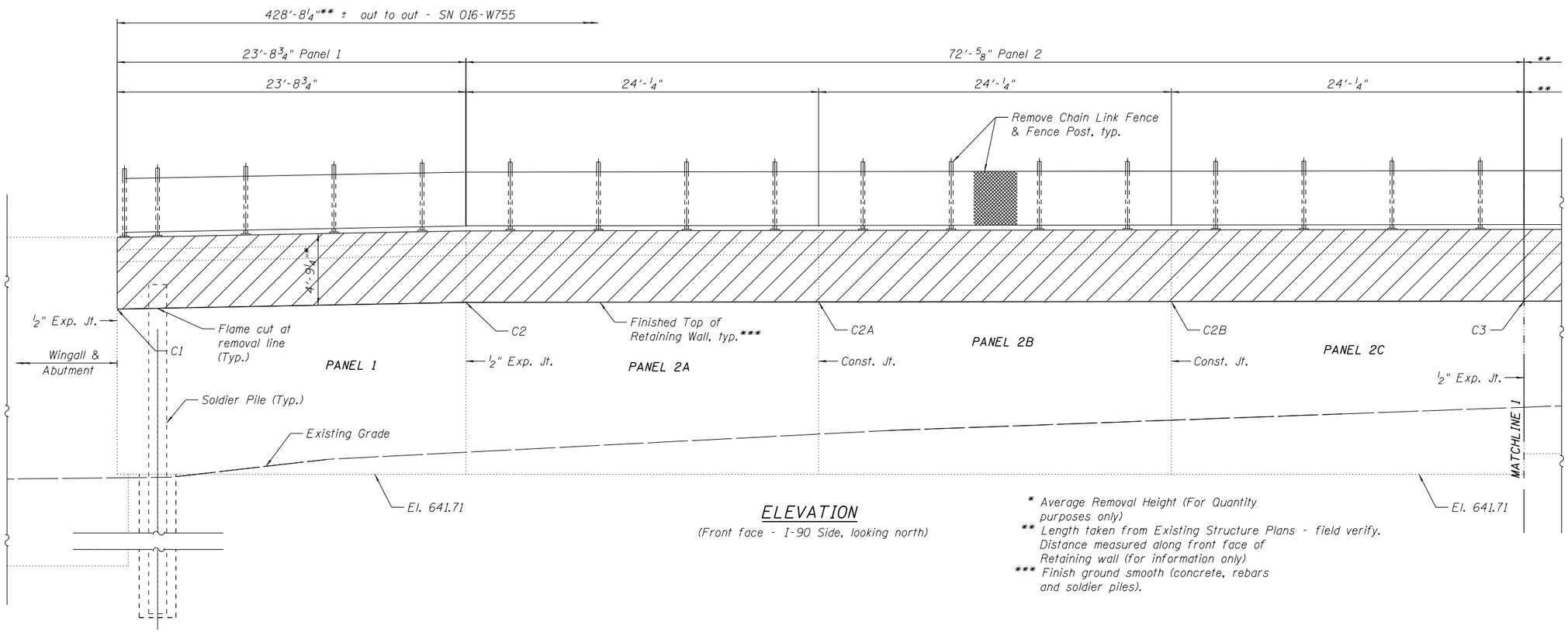
Partial Removal of Soldier Pile Wall.

Notes:

** To be designed by Noise Abatement wall supplier.

*** Subbase Granular Material, Type B 4"

1. See TYPICAL SECTION THRU MOMENT SLAB & NOISE WALL for location of Geometric Control Points.
2. Apply Bond Breaker followed by ½" PJF before casting Moment Slab concrete.



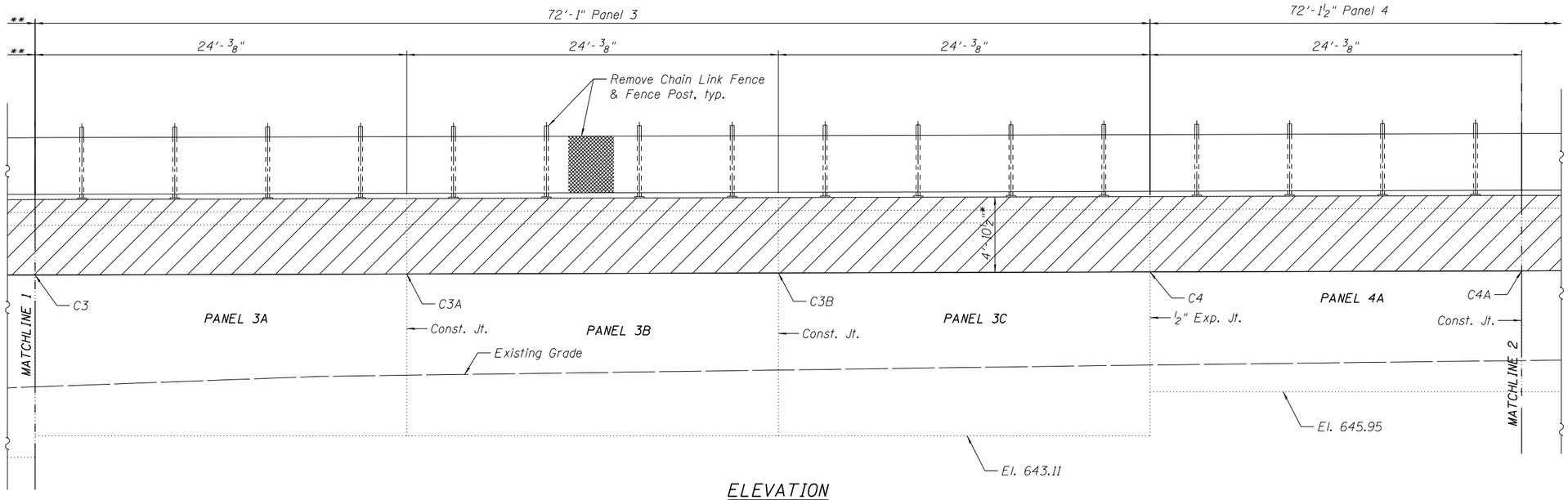
ELEVATION

(Front face - I-90 Side, looking north)

* Average Removal Height (For Quantity purposes only)

** Length taken from Existing Structure Plans - field verify. Distance measured along front face of Retaining wall (for information only)

*** Finish ground smooth (concrete, rebars and soldier piles).



ELEVATION

(Front face - I-90 Side, looking north)

LEGEND

Partial Removal of Soldier Pile Wall

exp U.S. Services Inc. Chicago, IL BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	USER NAME = $USER$	DESIGNED STD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARTIAL STRUCTURE REMOVAL 1 OF 2 MOMENT SLAB (S.N. 016-2293)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED KK	REVISED			I-90	(1517 & 1415) R-2	COOK	353	198
	PLOT SCALE = $SCALE$	DRAWN STD	REVISED				S.N. 016-2293		CONTRACT NO. 60Y40	
	PLOT DATE = 8-15-2017	DATE 8/21/2017	REVISED		SHEET NO. MS-4 OF 17 SHEETS			ILLINOIS	FED. AID PROJECT	

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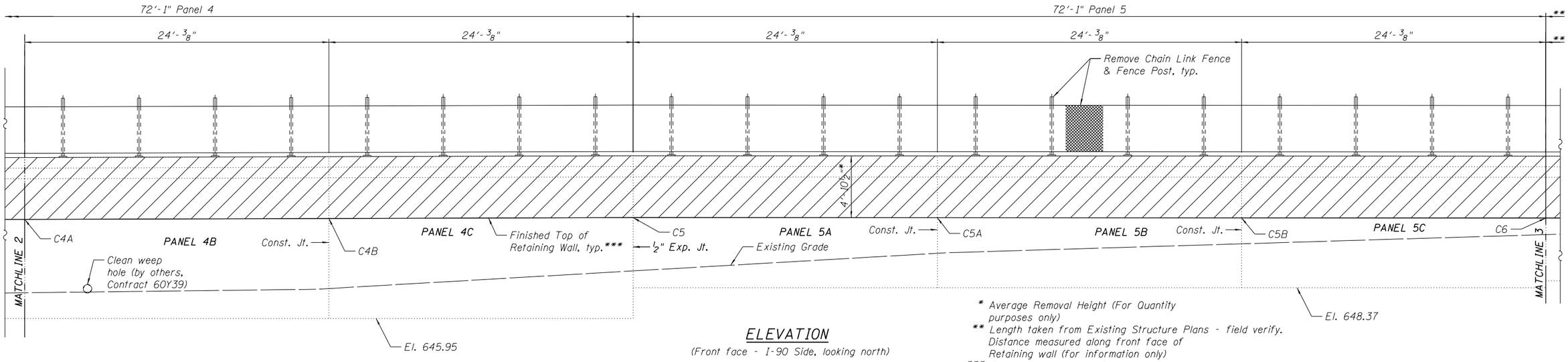


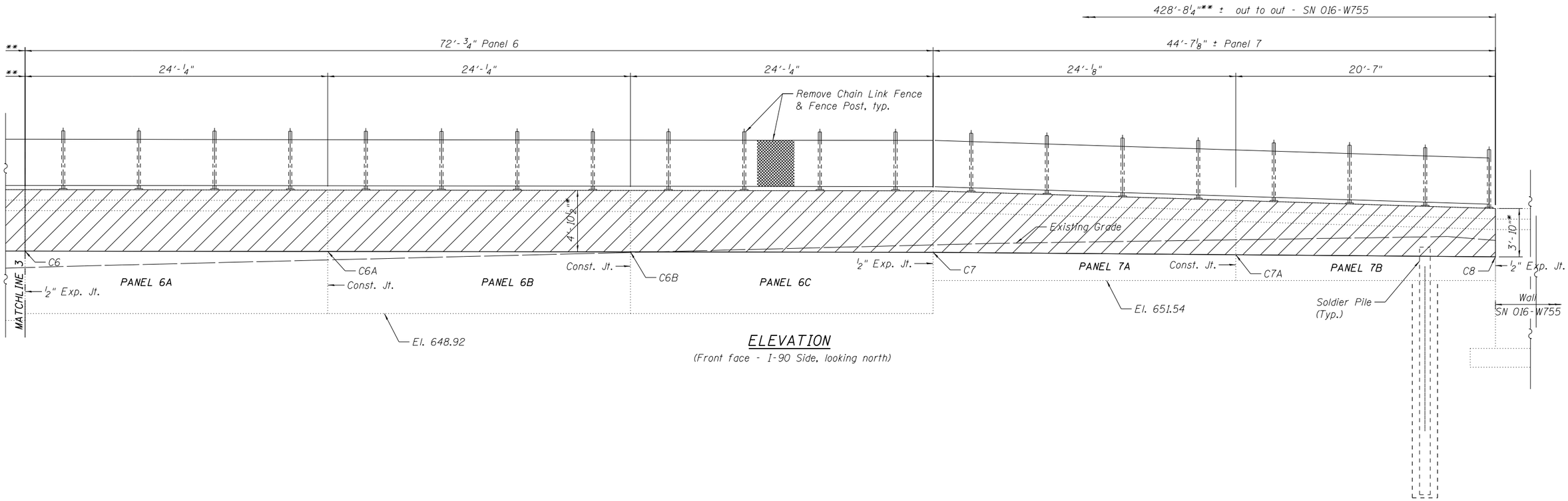
ELEVATION

(Front face - I-90 Side, looking north)

* Average Removal Height (For Quantity purposes only)

** Length taken from Existing Structure Plans - field verify. Distance measured along front face of Retaining wall (for information only)

*** Finish ground smooth (concrete, rebars and soldier piles).



ELEVATION

(Front face - I-90 Side, looking north)

exp U.S. Services Inc. Chicago, IL BUILDINGS·EARTH & ENVIRONMENT·ENERGY INDUSTRIAL·INFRASTRUCTURE·SUSTAINABILITY	USER NAME = $USER$	DESIGNED STD	REVISED
		CHECKED KK	REVISED
	PLOT SCALE = $SCALE$	DRAWN STD	REVISED
	PLOT DATE = 8-15-2017	DATE 8/21/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL STRUCTURE REMOVAL 2 OF 2
MOMENT SLAB (S.N. 016-2293)

SHEET NO. MS-5 OF 17 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-90	(1517 & 1415) R-2	COOK	353	199
	S.N. 016-2293	CONTRACT NO. 60Y40		
		ILLINOIS FED. AID PROJECT		

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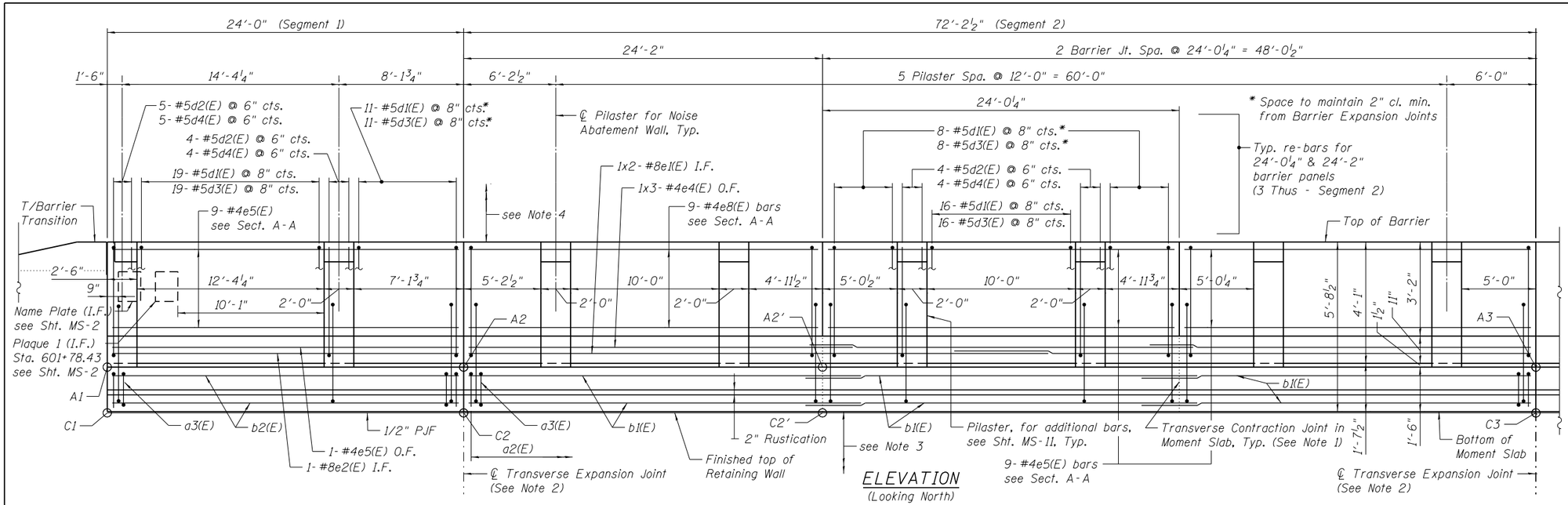

Minimum Bar Lap

#4 = 2'-11"
#5 = 3'-9"
#6 = 3'-10"
#8 = 6'-4"

Note:

For Notes, see Sht. MS-7.

PLAN - SEGMENTS 1 & 2

exp U.S. Services Inc. Chicago, IL. BUILDINGS•EARTH & ENVIRONMENT•ENERGY INDUSTRIAL•INFRASTRUCTURE•SUSTAINABILITY	USER NAME = $USER$	DESIGNED STD	REVISED	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**MOMENT SLAB PLAN & ELEVATION – 1 OF 5 MOMENT SLAB (S.N. 016–2293)**
		CHECKED KK	REVISED		
	PLOT SCALE = $SCALE$	DRAWN FD	REVISED		SHEET NO. MS-6 OF 17 SHEETS
	PLOT DATE = 8-15-2017	DATE 8/21/2017	REVISED		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	S.N. 016-2293	CONTRACT NO. 60Y40		
	ILLINOIS FED. AID PROJECT			

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