

FOR INDEX OF SHEETS, SEE SHEET NO. 3

TRAFFIC DATA

- WB I-90 (PROJECT LIMITS TO I-190)
EXISTING ADT: 135,700 (2014)
- WB I-190 (PROJECT LIMITS TO I-90)
EXISTING ADT: 70,000 (2014)
- WB I-90 (I-190 INTERCHANGE TO CUMBERLAND RAMP D)
EXISTING ADT: 188,400 (2014)
- WB I-90 (CUMBERLAND RAMP D TO CUMBERLAND RAMP DD)
EXISTING ADT: 177,900 (2014)
- WB I-90 (CUMBERLAND RAMP DD TO CUMBERLAND RAMP CC)
EXISTING ADT: 182,300 (2014)
- WB I-90 (CUMBERLAND RAMP CC TO CUMBERLAND RAMP C)
EXISTING ADT: 172,400 (2014)
- WB I-90 (CUMBERLAND RAMP C TO CANFIELD AVE EXIT RAMP)
EXISTING ADT: 187,600 (2014)
- WB I-90 (CANFIELD AVE EXIT RAMP TO HARLEM RAMP D)
EXISTING ADT: 194,400 (2014)
- WB I-90 (HARLEM RAMP D TO PROJECT LIMITS)
EXISTING ADT: 175,800 (2014)

RETAINING WALLS

- | | |
|---|--|
| RETAINING WALL WB-1
SN 016-2036
STA. 3067+00 TO STA. 3074+50, LEFT | RETAINING WALL WB-6
SN 016-1355
STA. 3038+43 TO STA. 3040+99, LEFT |
| RETAINING WALL WB-2
SN 016-2037
STA. 3076+24 TO STA. 3080+81, LEFT | RETAINING WALL WB-7
SN 016-2047
STA. 910+70 TO STA. 912+10, RIGHT |
| RETAINING WALL WB-3
SN 016-2289
3080+81 TO STA. 3087+04, LEFT | |
| RETAINING WALL WB-4
SN 016-2038
STA. 106+17 TO STA. 100+00, LEFT (CANFIELD RAMP)
STA. 3086+70 TO STA. 3092+82 LEFT | |
| RETAINING WALL WB-5
SN 016-2039
STA. 3093+85 TO STA. 3104+00, LEFT | |

PROJECT LOCATED IN THE CITY OF CHICAGO



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811
DIGGER - CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

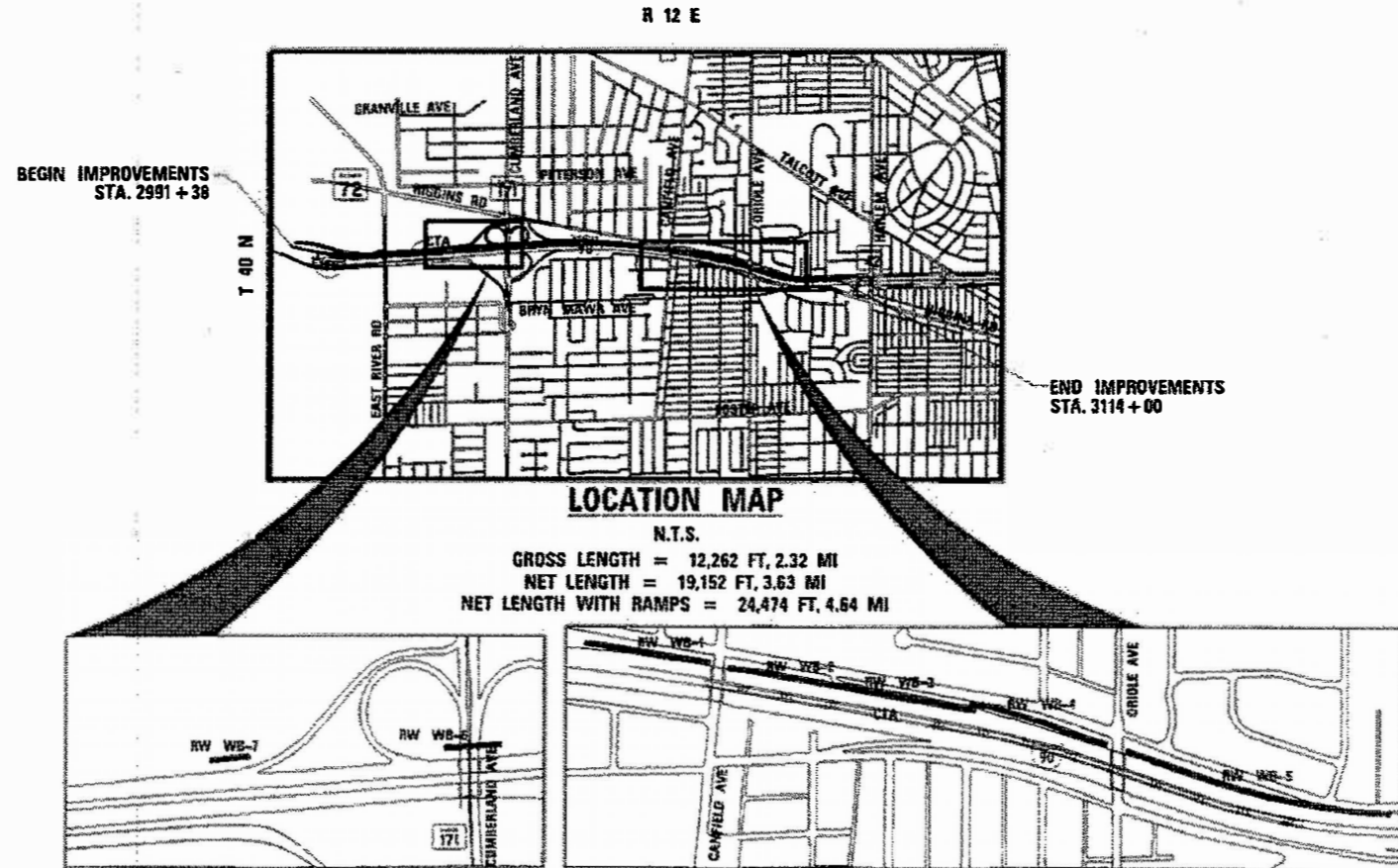
PROJECT ENGINEER: ANA ABREU 847-705-4482
PROJECT MANAGER: SERIN KELLER 847-705-4556
CONTRACT NO. 60Y39

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 90
FROM I-190
TO IL 43 (HARLEM AVENUE)
SECTION (1517 & 1415) R-2
PROJECT: CMAQ-NHPP-NWQA(467)
RESURFACING, WIDENING, DRAINAGE, LIGHTING,
ITS, SIGNING (NEW), RETAINING WALLS
COOK COUNTY

C-91-377-14



**VOLUME
1 OF 2**

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	1
ILLINOIS CONTRACT NO. 60Y39				
*734 + 6 = 740 TOTAL SHEETS 740 + 8 = 748 TOTAL SHEETS				



HNTB
ONE SOUTH WACKER DRIVE
SUITE 900
CHICAGO, IL 60606
(312) 930-9119
ILLINOIS PROFESSIONAL DESIGN FIRM
REGISTRATION NO. 184.001306

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 12, 2018
Anthony J. Quinlan REGIONAL ENGINEER
May 11, 2018
as
May 11, 2018
David P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				A	B	C	D	E	F	G	H	I	J	K	L	M	N
				0003	0021	0021	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN		
* A2007614	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	8	8													
* A2008468	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM) 2" CALIPER, BALLED AND BURLAPPED	EACH	8	8													
* B2005423	TREE, PRUNUS VIRGINIANA CANADA RED (CANADA RED CHERRY), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4	4													
* C3005924	SHRUB, RHUS GLABRA (SMOOTH SUMAC), 2' HEIGHT, BARE ROOT	EACH	200	200													
* C3006024	SHRUB, RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT	EACH	500	500													
* D2001960	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 5' HEIGHT, BALLED AND BURLAPPED	EACH	16	16													
* D2001972	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	11	11													
* D2002160	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 5' HEIGHT, BALLED AND BURLAPPED	EACH	3	3													
* D2002184	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	4	4													
* D2002372	EVERGREEN, PINUS FLEXILIS (LIMBER PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	12	12													
* D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	8	8													
K0029632	WEED CONTROL, NON-SLECTIVE AND NON-RESIDUAL	GALLON	2	2													
K0029624	WEED CONTROL, TEASEL	GALLON	2	2													
K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	43	43													

- * SPECIALTY ITEM
- | | | |
|--------------------------------------|---------------------------------------|--|
| A ROADWAY AND DRAINAGE | F RETAINING WALL PRWB-3: SN 016-2289 | K RETAINING WALL EX-WB-E: SN 016-2295 |
| B LIGHTING | G RETAINING WALL PRWB-4: SN 016-2038 | L RETAINING WALL REPAIR EX-WB-F SN: 016-1354 |
| C ITS | H RETAINING WALL PRWB-5: SN 016-2039 | M RETAINING WALL PRWB-6: SN 016-1355 |
| D RETAINING WALL PRWB-1: SN 016-2036 | I RETAINING WALL EX-WB-B: SN 016-W755 | N RETAINING WALL PRWB-7: SN 016-2047 |
| E RETAINING WALL PRWB-2: SN 016-2037 | J RETAINING WALL EX-WB-D: SN 016-2294 | |

HNTB	USER NAME = mki/oby	DESIGNED MMR	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE SUMMARY OF QUANTITIES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.00" = 1' - 0"	DRAWN JAB	REVISED		SCALE: N/A	SHEET NO. 22 OF 32 SHEETS	STA.	TO STA.	90	(517 & 1415) R-2	COOK
	PLOT DATE = 3/22/2018	DATE 01/19/2018	REVISED							CONTRACT NO. 60Y39	

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	A	B	C	D	E	F	G	H	I	J	K	L	M	N		
				0003	0021	0021	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
X6020084	MANHOLE, SPECIAL	EACH	1	1															
X6020293	MANHOLES, TYPE A, 8' -DIAMETER, WITH 2 TYPE 1 FRAMES, CLOSED LID, RESTRICTOR PLATE	EACH	1	1															
X6021193	TEMPORARY CATCH BASINS	EACH	5	5															
X6024200	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	1	1															
X6024875	TEMPORARY INLET	EACH	5	5															
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	13	13															
X6060097	CLASS SI CONCRETE (OUTLET), SPECIAL	CU YD	8	8															
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	3,750	3,750															
X6063000	CONCRETE GUTTER, TYPE B (SPECIAL)	FOOT	2,952	2,952															
X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	107	107															
X6370279	CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)	FOOT	288	288															
X6640560	CHAIN LINK FENCE, 6' (SPECIAL)	FOOT	60	60															
X6643310	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED (CTA)	FOOT	40	40															
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	26	26															
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1															

• SPECIALTY ITEM

- A ROADWAY AND DRAINAGE
- B LIGHTING
- C ITS
- D RETAINING WALL PRWB-1: SN 016-Z036
- E RETAINING WALL PRWB-2: SN 016-Z037
- F RETAINING WALL PRWB-3: SN 016-2289
- G RETAINING WALL PRWB-4: SN 016-Z038
- H RETAINING WALL PRWB-5: SN 016-Z039
- I RETAINING WALL EX-WB-B: SN 016-W755
- J RETAINING WALL EX-WB-D: SN 016-2294
- K RETAINING WALL EX-WB-E: SN 016-2295
- L RETAINING WALL REPAIR EX-WB-F SN: 016-1354
- M RETAINING WALL PRWB-6: SN 016-1355
- N RETAINING WALL PRWB-7: SN 016-Z047

HNTB	USER NAME = mku:by	DESIGNED MMK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE SUMMARY OF QUANTITIES				F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 32
	PLOT SCALE = 2.00" / 1" =	DRAWN JAB	REVISED -		SCALE: N/A	SHEET NO. 27 OF 32 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/22/2018	CHECKED MAM	REVISED -										
	DATE 01/19/2018	DATE 01/19/2018	REVISED -		CONTRACT NO. 60Y39								

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STD. NO.	TITLE
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D6-07	PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS
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E3-06	SHOULDER CLOSURE DETAILS
E6-03	CONTRACTOR ACCESS TO WORK AREA
F9-04	BREAKAWAY SIGN SUPPORT DETAILS



USER NAME = mamiller	DESIGNED MMK	REVISED - 06/01/2018 - MAM
	DRAWN MMK	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED MAM	REVISED -
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
INDEX OF DRAWINGS AND HIGHWAY STANDARDS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	3
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

EXISTING LEGEND

- (A) EXISTING 4" +/- HMA SURFACE COURSE
- (B) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (C) EXISTING 6" +/- AGGREGATE SUB-BASE
- (D) EXISTING 2" +/- HMA SURFACE COURSE
- (E) EXISTING 13" +/- P.C.C. SHOULDER
- (F) EXISTING CHAIN LINK FENCE
- (G) EXISTING AGGREGATE SHOULDER
- (H) EXISTING GROUND
- (I) EXISTING BARRIER WALL
- (J) EXISTING GUARDRAIL
- (K) CTA TRACKS
- (L) EXISTING BRIDGE PIER/ABUTMENT
- (M) EXISTING RETAINING WALL
- (N) EXISTING CONCRETE SIDEWALK
- (O) EXISTING CONCRETE CURB AND GUTTER
- (P) EXISTING CONCRETE MEDIAN

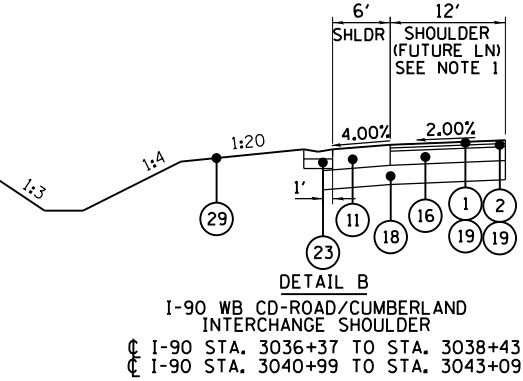
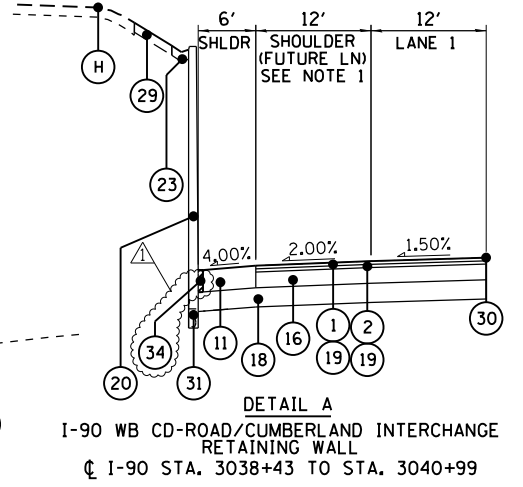
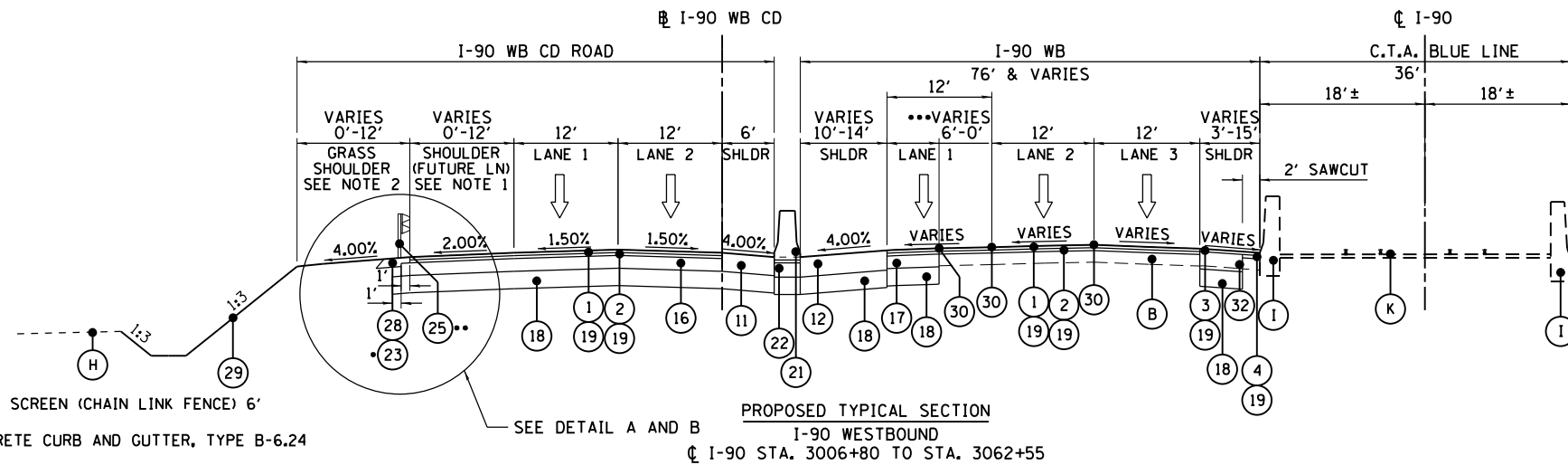
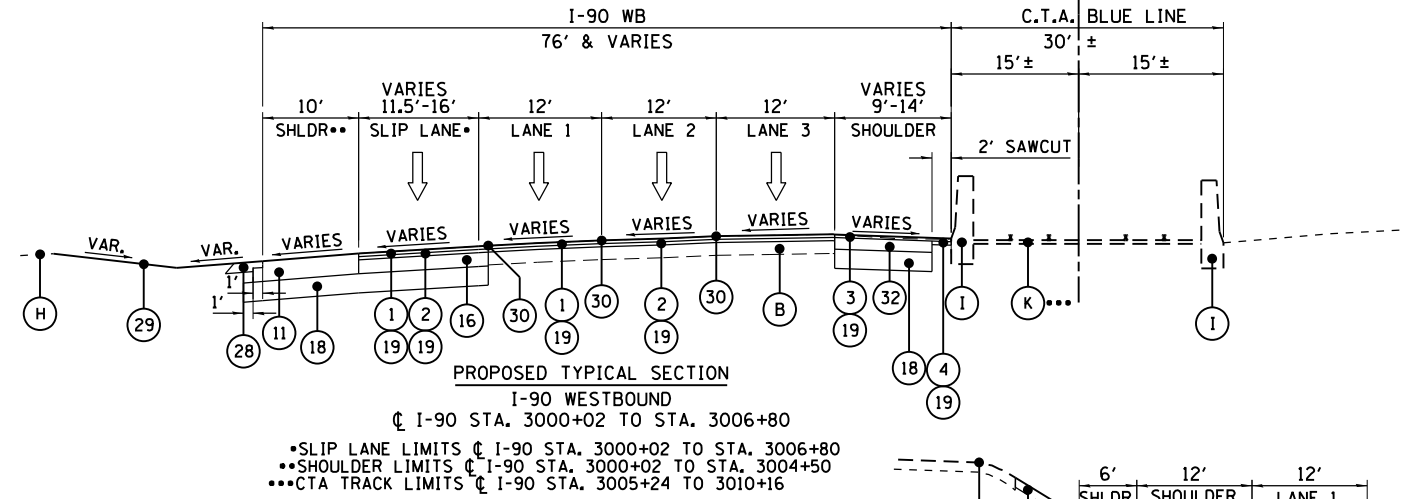
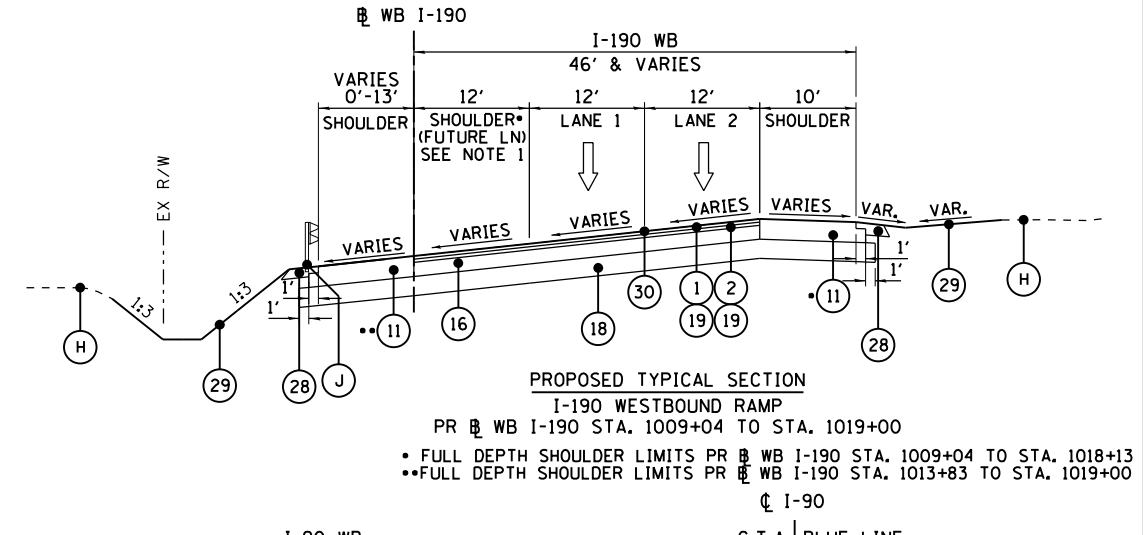
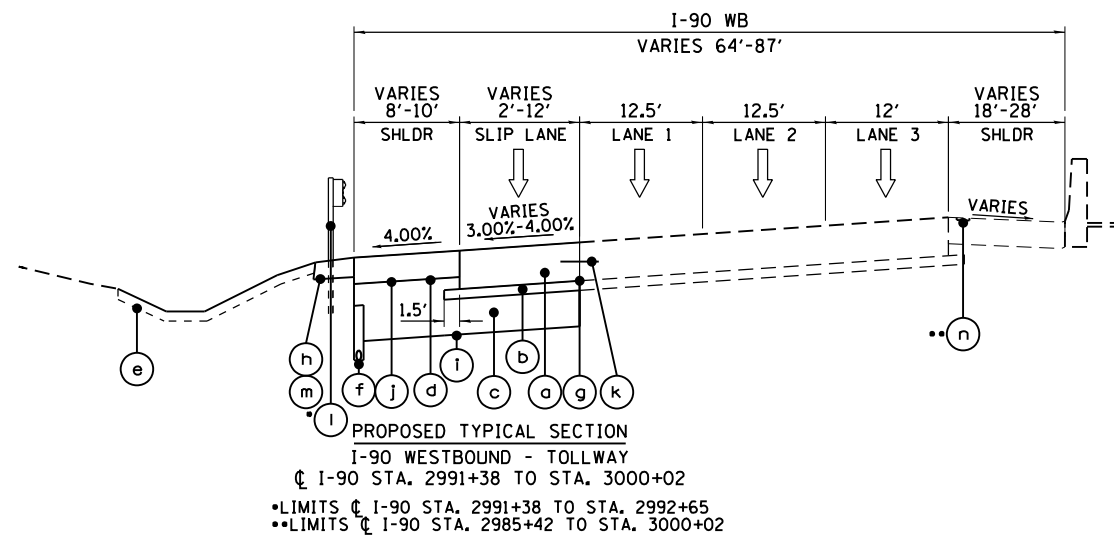
PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (IL-12.5), 2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (IL-12.5), 2"
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) NOT USED
- (8) HOT-MIX ASPHALT SHOULDERS, 9 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 7 3/4"
- (9) HOT-MIX ASPHALT SHOULDERS, 10 1/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 8 1/4"
- (10) HOT-MIX ASPHALT SHOULDERS, 11 1/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 9 1/4"
- (11) HOT-MIX ASPHALT SHOULDERS, 12 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 10 3/4"
- (12) HOT-MIX ASPHALT SHOULDERS, 13 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 11 3/4"
- (13) HOT-MIX ASPHALT BASE COURSE, 7 3/4"
- (14) HOT-MIX ASPHALT (FULL-DEPTH), 10 1/4"
- (15) HOT-MIX ASPHALT BASE COURSE, 7 1/4"
- (16) HOT-MIX ASPHALT BASE COURSE, 8 3/4"
- (17) HOT-MIX ASPHALT BASE COURSE, 9 3/4"
- (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (19) BITUMINOUS MATERIALS (TACK COAT)
- (20) RETAINING WALL
- (21) CONCRETE BARRIER, DOUBLE FACE, 42 IN HEIGHT
- (22) CONCRETE BARRIER BASE
- (23) CONCRETE GUTTER, TYPE A
- (24) COMBINATION CURB AND GUTTER, TYPE M-4.24
- (25) STEEL PLATE BEAM GUARDRAIL

- (26) SIGHT SCREEN (CHAIN LINK FENCE) 6'
- (27) CONCRETE CURB AND GUTTER, TYPE B-6.24
- (28) AGGREGATE SHOULDERS, TYPE B, 6"
- (29) PROPOSED TOPSOIL, SEE NOTE 2
- (30) STRIP REFLECTIVE CRACK CONTROL TREATMENT (SEE NOTE 3)
- (31) PIPE UNDERDRAINS 4"
- (32) HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
- (33) CONCRETE GUTTER, TYPE B
- (34) CONCRETE CURB, TYPE B (SPECIAL)

NOTES:

1. STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE INSTALLED IMMEDIATELY IN FRONT OF SURFACING OPERATIONS SO TRAFFIC WILL NOT DISTURB IT BEFORE BEING COVERED WITH SMA SURFACE. SEE PROPOSED TYPICAL SECTIONS FOR LOCATIONS.
2. INSTALL SHOULDER RUMBLE STRIPS, 16" IN ACCORDANCE WITH STANDARD 642001-02.
3. FUTURE LANE OF I-90 WB CD ROAD/I-90 WILL SERVE AS THE ROADWAY SHOULDER FOR THIS PROJECT. SHOULDER STATUS BEGINS AT CUMBERLAND RAMP D STA. 918+83.77 AND CONTINUES IN TO I-90 WB TYPICAL SECTION LIMITS.



HNTB	USER NAME = agliganic	DESIGNED MMK	REVISED - 06/01/2018 - AMG
	PLOT SCALE = 2.00" = 1'	DRAWN MMK	REVISED -
	PLOT DATE = 5/30/2018	CHECKED MAM	REVISED -
		DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
PROPOSED TYPICAL SECTIONS

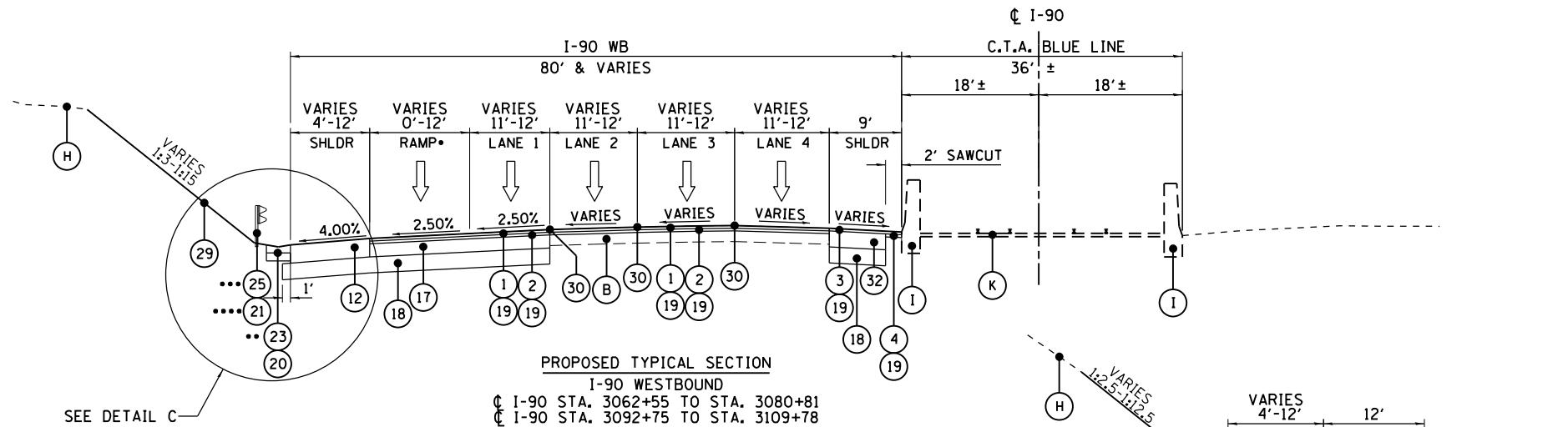
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 40
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

EXISTING LEGEND

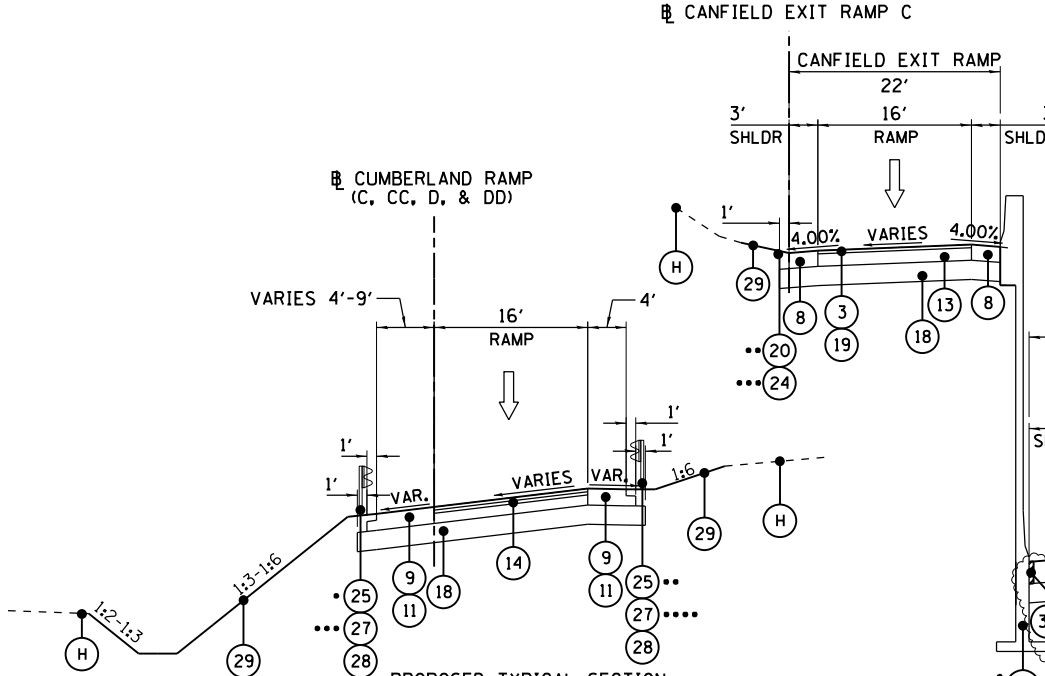
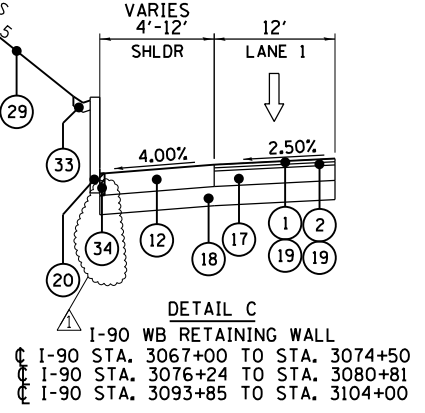
- (A) EXISTING 4" +/- HMA SURFACE COURSE
- (B) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (C) EXISTING 6" +/- AGGREGATE SUB-BASE
- (D) EXISTING 2" +/- HMA SURFACE COURSE
- (E) EXISTING 13" +/- P.C.C. SHOULDER
- (F) EXISTING HMA OVERLAY (VARIABLE THICKNESS)
- (G) EXISTING AGGREGATE SHOULDER
- (H) EXISTING GROUND
- (I) EXISTING BARRIER WALL
- (J) EXISTING GUARDRAIL
- (K) CTA TRACKS
- (L) EXISTING BRIDGE PIER/ABUTMENT
- (M) EXISTING RETAINING WALL
- (N) EXISTING CONCRETE SIDEWALK
- (O) EXISTING CONCRETE CURB AND GUTTER
- (P) EXISTING CONCRETE MEDIAN

PROPOSED LEGEND

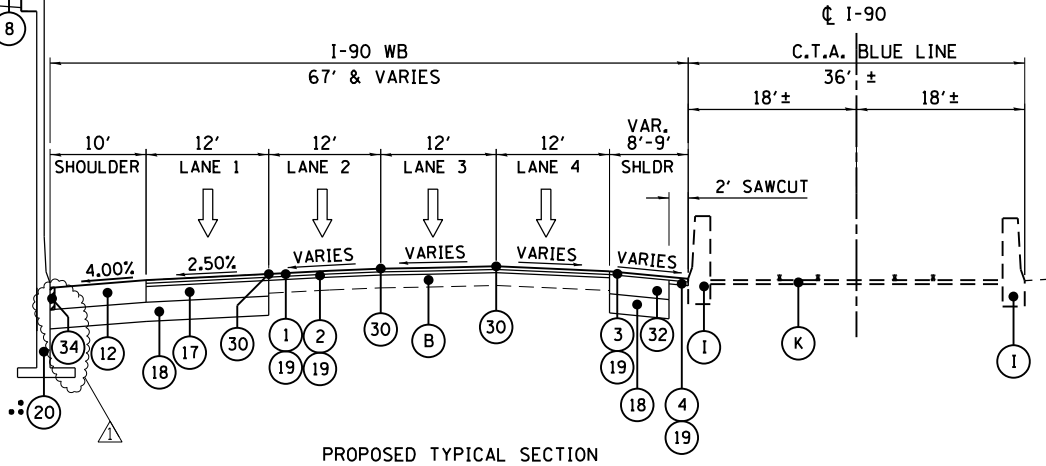
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (IL-12.5), 2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (IL-12.5), 2"
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) NOT USED
- (8) HOT-MIX ASPHALT SHOULDERS, 9 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 7 3/4"
- (9) HOT-MIX ASPHALT SHOULDERS, 10 1/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 8 1/4"
- (10) HOT-MIX ASPHALT SHOULDERS, 11 1/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 9 1/4"
- (11) HOT-MIX ASPHALT SHOULDERS, 12 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 10 3/4"
- (12) HOT-MIX ASPHALT SHOULDERS, 13 3/4"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
HMA SHOULDER (HMA BINDER IL-19mm), 11 3/4"
- (13) HOT-MIX ASPHALT BASE COURSE, 7 3/4"
- (14) HOT-MIX ASPHALT (FULL-DEPTH), 10 1/4"
- (15) HOT-MIX ASPHALT BASE COURSE, 7 1/4"
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- (17) HOT-MIX ASPHALT BASE COURSE, 9 3/4"
- (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (19) BITUMINOUS MATERIALS (TACK COAT)
- (20) RETAINING WALL
- (21) CONCRETE BARRIER, DOUBLE FACE, 42 IN HEIGHT
- (22) CONCRETE BARRIER BASE
- (23) CONCRETE GUTTER, TYPE A
- (24) COMBINATION CURB AND GUTTER, TYPE M-4.24
- (25) STEEL PLATE BEAM GUARDRAIL
- (26) SIGHT SCREEN (CHAIN LINK FENCE) 6'
- (27) CONCRETE CURB AND GUTTER, TYPE B-6.24
- (28) AGGREGATE SHOULDERS, TYPE B, 6"
- (29) PROPOSED TOPSOIL, SEE NOTE 2
- (30) STRIP REFLECTIVE CRACK CONTROL TREATMENT (SEE NOTE 3)
- (31) PIPE UNDERDRAINS 4"
- (32) HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
- (33) CONCRETE GUTTER, TYPE B
- (34) CONCRETE CURB, TYPE B (SPECIAL)



PROPOSED TYPICAL SECTION
 I-90 WESTBOUND
 C I-90 STA. 3062+55 TO STA. 3080+81
 C I-90 STA. 3092+75 TO STA. 3109+78
 • RAMP LIMITS C I-90 STA. 3062+55 TO STA. 3072+79
 • TYPE A GUTTER LIMITS C I-90 STA. 3062+55 TO 3067+00 AND STA. 3106+22 TO STA. 3107+78
 • GUARDRAIL LIMITS C I-90 STA. 3104+62 TO STA. 3108+98
 • CONCRETE BARRIER LIMITS C I-90 STA. 3104+00 TO STA. 3104+62



PROPOSED TYPICAL SECTION
 CUMBERLAND RAMP C, CC, D, & DD
 PR C RAMP C STA. 704+00 TO STA. 707+52
 PR CC RAMP CC STA. 800+62 TO STA. 807+06
 PR D RAMP D STA. 900+43 TO STA. 912+48
 PR DD RAMP DD STA. 1003+63 TO STA. 1009+48
 • GUARDRAIL LIMITS PR C CUMBERLAND RAMP D STA. 906+02 TO STA. 910+80, RT
 • GUARDRAIL LIMITS PR C CUMBERLAND RAMP D STA. 907+78 TO STA. 908+84, LT
 • CONCRETE CURB AND GUTTER LIMITS PR C CUMBERLAND RAMP CC STA. 800+62 TO STA. 808+57
 • CONCRETE CURB AND GUTTER LIMITS PR C CUMBERLAND RAMP DD STA. 1001+60 TO STA. 1002+35



PROPOSED TYPICAL SECTION
 I-90 WESTBOUND AND CANFIELD EXIT RAMP
 C I-90 STA. 3080+55 TO STA. 3092+75
 PR C CANFIELD EXIT RAMP C STA. 105+85 TO STA. 112+06
 • RETAINING WALL LIMITS C I-90 STA. 3080+81 TO STA. 3087+04
 • RETAINING WALL LIMITS PR C CANFIELD EXIT RAMP C STA. 100+00 TO STA. 106+42 AND C I-90 STA. 3086+45 TO STA. 3092+82
 • CONCRETE CURB AND GUTTER, TYPE M LIMITS PR C CANFIELD EXIT RAMP C STA. 106+42 TO STA. 112+19

NOTES:

1. STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE INSTALLED IMMEDIATELY IN FRONT OF SURFACING OPERATIONS SO TRAFFIC WILL NOT DISTURB IT BEFORE BEING COVERED WITH SMA SURFACE. SEE PROPOSED TYPICAL SECTIONS FOR LOCATIONS.
2. INSTALL SHOULDER RUMBLE STRIPS, 16" IN ACCORDANCE WITH STANDARD 642001-02.



USER NAME = agliganic	DESIGNED MMK	REVISED - 06/01/2018 - AMG
PLOT SCALE = 2.00" = 100'	DRAWN MMK	REVISED -
PLOT DATE = 5/30/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE	
PROPOSED TYPICAL SECTIONS	
SCALE: N/A	SHEET NO. 4 OF 5 SHEETS
STA.	TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 41
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE - I-90 WB - RAMP CC										
BEGIN STATION	END STATION	TOPSOIL EXCAVATION	TOPSOIL PLACEMENT	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	STRUCTURE EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
800+62.16	801+00.00	0	0	0	0	0	0	0	0	0
801+00.00	801+50.00	10	34	124	0	0	105	6	99	0
801+50.00	802+00.00	15	44	147	0	0	125	14	111	0
802+00.00	802+50.00	31	44	124	0	0	105	24	81	0
802+50.00	803+00.00	39	45	105	0	0	89	22	67	0
803+00.00	803+50.00	36	49	115	0	0	98	15	83	0
803+50.00	804+00.00	36	54	132	0	0	112	15	97	0
804+00.00	804+50.00	36	57	144	0	0	123	16	107	0
804+50.00	805+00.00	46	65	178	0	0	151	17	134	0
805+00.00	805+50.00	95	90	212	5	0	180	28	152	0
805+50.00	806+00.00	141	111	267	30	0	227	19	208	0
806+00.00	806+25.60	163	101	316	62	0	269	3	266	0
806+25.60	806+73.33	84	41	133	44	0	113	1	112	0
806+73.33	807+06.72	134	51	118	83	0	100	2	98	0
807+06.72	Project End	77	23	24	54	0	20	9	11	0
TOTALS		942	809	2,138	277	0	1,817	190	1,627	0

*SHRINKAGE FACTOR 15%

EARTHWORK SCHEDULE - I-90 WB - RAMP DD DETENTION POND								
TOPSOIL EXCAVATION	TOPSOIL PLACEMENT	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	STRUCTURE EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT
(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
3789	1895	8026	0	0	6822	398	6423	0

*SHRINKAGE FACTOR 15%

EARTHWORK SCHEDULE - I-90 WESTBOUND / RAMPS	TOPSOIL EXCAVATION	TOPSOIL PLACEMENT	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	FURNISHED EXCAVATION	AGGREGATE SUBGRADE IMPROVEMENT
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
I-90 WESTBOUND I-190 PRE-STAGE SUB-STAGE A CONSTRUCTION	668	-	1,217	668	-	-
I-90 WESTBOUND RAMP C PRE-STAGE SUB-STAGE A CONSTRUCTION	195	-	408	195	-	-
I-90 WESTBOUND RAMP CC PRE-STAGE SUB-STAGE A CONSTRUCTION	738	-	1,105	738	-	-
I-90 WESTBOUND HARLEM "D" PRE-STAGE SUB-STAGE A CONSTRUCTION	364	-	1,312	364	-	-
I-90 WESTBOUND RAMP D PRE-STAGE SUB-STAGE A CONSTRUCTION	391	-	359	391	361	-
I-90 WESTBOUND RAMP DD PRE-STAGE SUB-STAGE B CONSTRUCTION	357	-	303	357	586	-
I-90 WESTBOUND MAINLINE SUB-STAGE B CONSTRUCTION	-	-	4,309	-	-	-
I-90 WESTBOUND STAGE 1 CONSTRUCTION	17,598	3,706	15,303	13,960	8,060	-
I-90 WESTBOUND STAGE 2 CONSTRUCTION	4,498	1,612	10,371	2,896	-	-
Cumberland WESTBOUND Entrance Ramp D - PHASE II CONSTRUCTION	1,238	795	3,616	622	-	-
Cumberland WESTBOUND Loop Ramp DD - PHASE II CONSTRUCTION	374	258	1,257	117	-	-
Cumberland WESTBOUND Loop Ramp CC - PHASE II CONSTRUCTION	942	809	2,138	277	-	-
Cumberland WESTBOUND Exit Ramp C - PHASE II CONSTRUCTION	158	66	231	185	-	-
EARTHWORK SCHEDULE - I-90 WB - RAMP DD DETENTION POND	3,789	1,895	8,026	-	-	-
Totals	31,325	9,140	49,955	20,769	9,007	-



USER NAME = memiller	DESIGNED BAJ	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00' / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/30/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SCHEDULE OF QUANTITIES
EARTHWORK - FRONTAGE ROADS, RAMPS C AND D, SCHEDULE

SCALE: N/A SHEET NO. 10 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	53
			CONTRACT NO. 60Y39	

EROSION CONTROL SCHEDULE OF QUANTITIES

		20101000 TEMPORARY FENCE	20101100 TREE TRUNK PROTECTION	28000250 TEMPORARY EROSION CONTROL SEEDING	28000305 TEMPORARY DITCH CHECKS	28000400 PERIMETER EROSION BARRIER	28000510 INLET FILTERS
		FOOT	EACH	POUND	FOOT	FOOT	EACH
I-90	ESC-02	416		260	250	315	11
	ESC-03	1221	5	102	190	213	15
	ESC-04	1822		52	70	77	19
	ESC-05	80		43			65
	ESC-06	333	1	41			40
	ESC-07	807			30	144	
	WB CD	ESC-02					
	ESC-03						36
	ESC-04						22
I-190	ESC-02			91			
RAMP DD	ESC-03			128			2
	ESC-07			109			2
RAMP D	ESC-03			74			3
	ESC-07			55			1
RAMP CC	ESC-03		5	27			5
	ESC-07			26			5
RAMP C	ESC-04		1	35			3
	ESC-07						1
	TOTALS	4,679	12	1,043	540	749	240

GUARDRAIL SCHEDULE OF QUANTITIES

		63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000007 STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2	63100089 TRAFFIC BARRIER TERMINAL, TYPE 6B	63100105 TRAFFIC BARRIER TERMINAL, TYPE 10	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	72501000 TERMINAL MARKER - DIRECT APPLIED	78200005 GUARDRAIL REFLECTORS, TYPE A	J1630002 GALVANIZED STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS	J1631110 TRAFFIC BARRIER TERMINAL, TYPE T1 (SPECIAL) TANGENT	J1631135 TRAFFIC BARRIER TERMINAL, TYPE T6B	J1725000 TERMINAL MARKER - DIRECT APPLIED
		FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	EACH	EACH
I-90 & WB-CD	PP-01	825					1	1	4	38	1	1	1
	PP-02	50		1			2	2	4				
	PP-03								4				
	PP-04								4				
	PP-05	338			1	1	1	1					
	PP-06	75			1								
I-190	PP-01			1									
CUMBER. RAMP D	PP-02	387.5		2	2		1	1	12				
	PP-06	50					1	1	2				
CUMBER. RAMP DD	PP-02												
	PP-06												
CUMBER. RAMP CC	PP-02												
	PP-06												
CUMBER. RAMP C	PP-03	100		1			1	1	4				
CANFIELD RAMP	PP-04												
HARLEM	PP-03		363	1	1				8				
STAGING	PP-03	841					2	2					
	TOTALS	2666	363	7	4	1	9	9	42	38	1	1	1



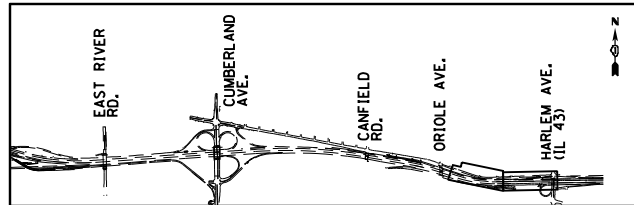
USER NAME = mamiller	DESIGNED MMK	REVISED - 06/01/2018 - MAM
	DRAWN MMK	REVISED -
PLOT SCALE = 2.00' / in.	CHECKED MAM	REVISED -
PLOT DATE = 5/31/2018	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SCHEDULE OF QUANTITIES EROSION
AND SEDIMENT CONTROL, GUARDRAILS, AND CONCRETE BARRIER

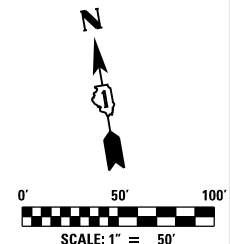
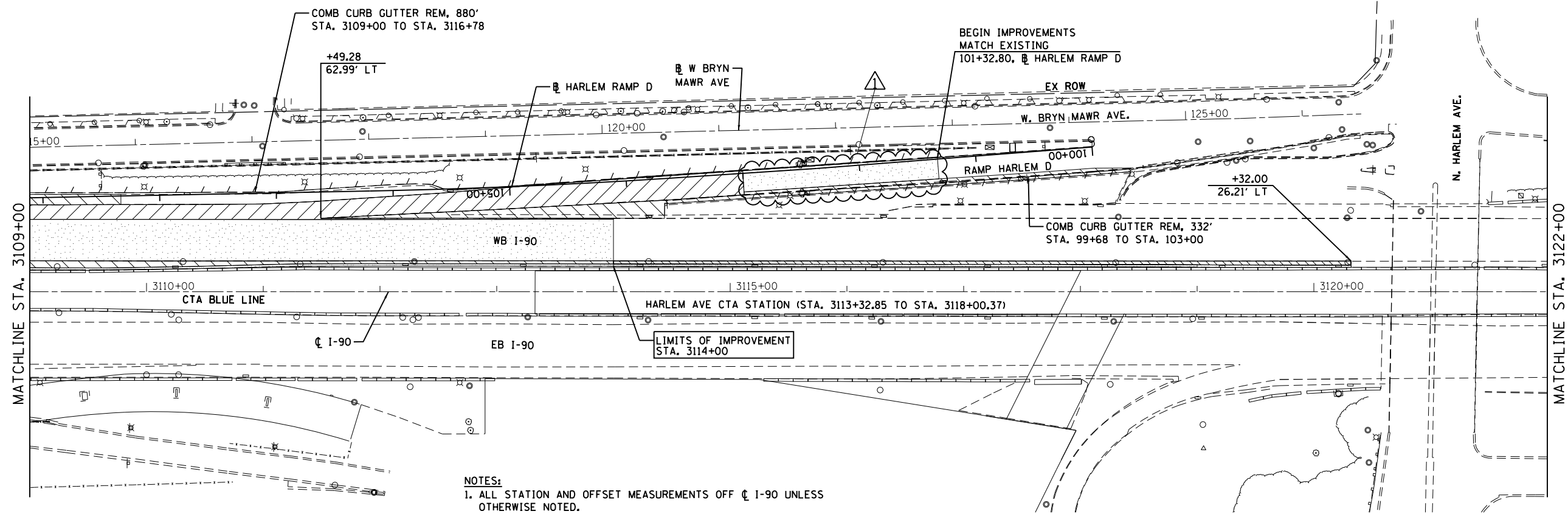
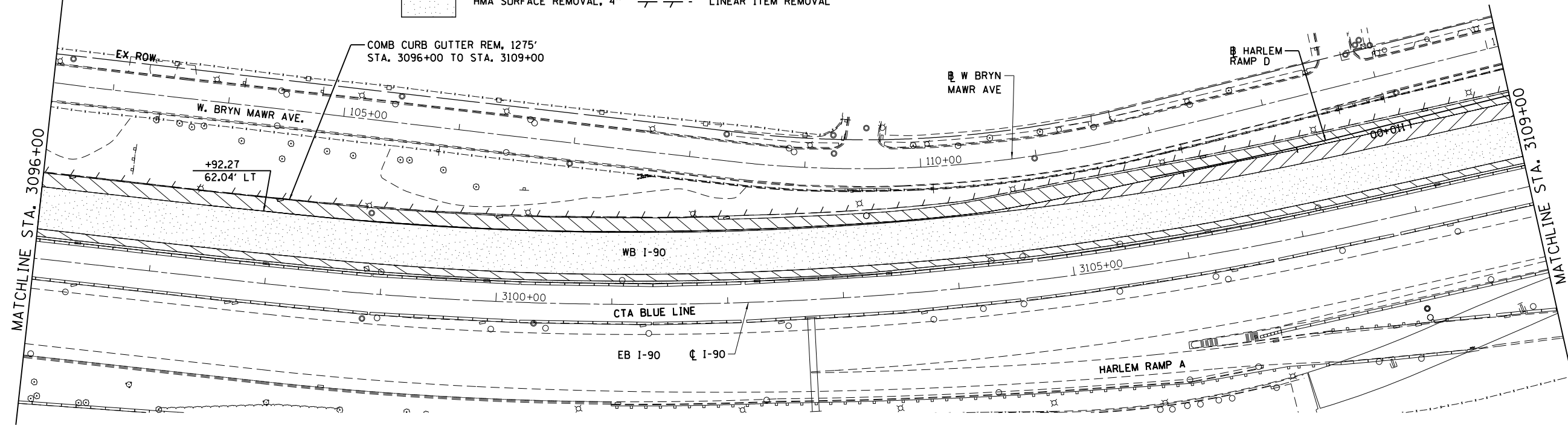
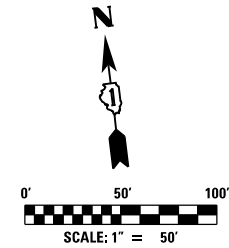
SCALE: N/A SHEET NO. 13 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	56
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

- PAVEMENT REMOVAL
- SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 4"
- MEDIAN REMOVAL
- PAVED DITCH REMOVAL
- LINEAR ITEM REMOVAL
- ITEM REMOVAL
- HMA SURFACE REMOVAL, 4 1/4"



- NOTES:**
1. ALL STATION AND OFFSET MEASUREMENTS OFF ϕ I-90 UNLESS OTHERWISE NOTED.
 2. SEE LIGHTING PLANS, DRAINAGE PLANS, AND PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL REMOVALS NOT SHOWN ON THIS PLAN.



USER NAME = mksrby	DESIGNED MJK	REVISED - 06/01/2018 - MJK
	DRAWN BAJ	REVISED -
PLOT SCALE = 2.00" / 100'	CHECKED MAM	REVISED -
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISED -

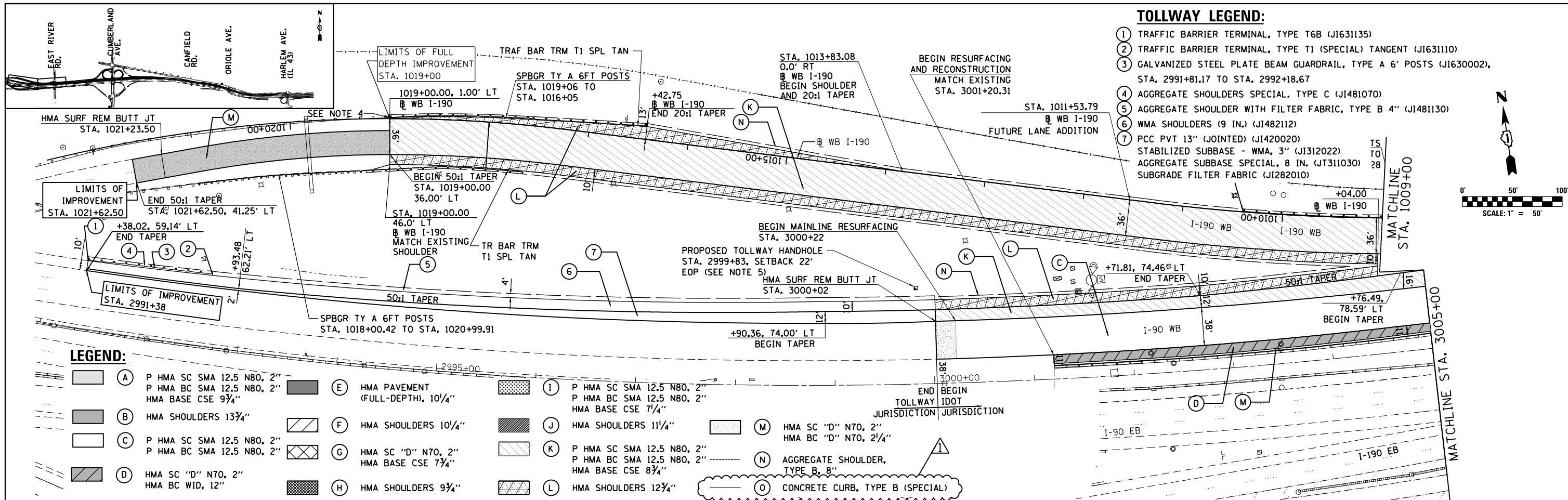
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
REMOVAL PLAN**

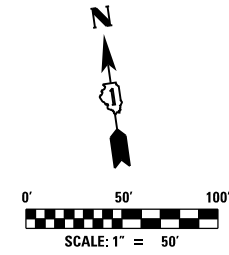
SCALE: 1"=50' SHEET NO. 5 OF 6 SHEETS STA. 3096+00 TO STA. 3114+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	71
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

REM-05



- TOLLWAY LEGEND:**
- ① TRAFFIC BARRIER TERMINAL, TYPE T6B (JI631135)
 - ② TRAFFIC BARRIER TERMINAL, TYPE T1 (SPECIAL) TANGENT (JI631110)
 - ③ GALVANIZED STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS (JI630002), STA. 2991+81.17 TO STA. 2992+18.67
 - ④ AGGREGATE SHOULDERS SPECIAL, TYPE C (JI481070)
 - ⑤ AGGREGATE SHOULDER WITH FILTER FABRIC, TYPE B 4" (JI481130)
 - ⑥ WMA SHOULDERS (9 IN.) (JI482112)
 - ⑦ PCC PVT 13" (JOINTED) (JI420020)
 - ⑧ STABILIZED SUBBASE - WMA, 3" (JI312022)
 - ⑨ AGGREGATE SUBBASE SPECIAL, 8 IN. (JT311030)
 - ⑩ SUBGRADE FILTER FABRIC (JI282010)

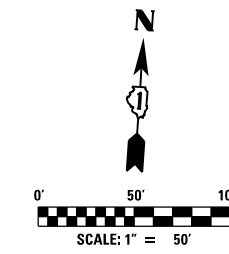
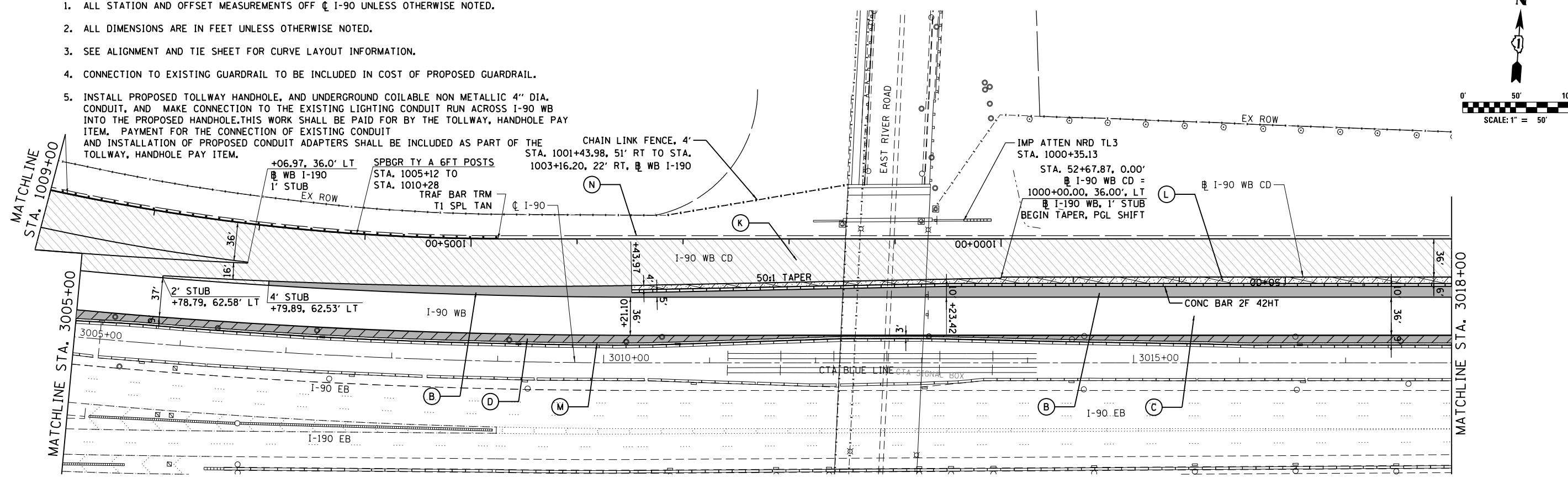


LEGEND:

- | | | |
|---|---|---|
| (A) P HMA SC SMA 12.5 N80, 2"
P HMA BC SMA 12.5 N80, 2"
HMA BASE CSE 9 3/4" | (E) HMA PAVEMENT (FULL-DEPTH), 10 1/4" | (I) P HMA SC SMA 12.5 N80, 2"
P HMA BC SMA 12.5 N80, 2"
HMA BASE CSE 7 1/4" |
| (B) HMA SHOULDERS 13 3/4" | (F) HMA SHOULDERS 10 1/4" | (J) HMA SHOULDERS 11 1/4" |
| (C) P HMA SC SMA 12.5 N80, 2"
P HMA BC SMA 12.5 N80, 2" | (G) HMA SC "D" N70, 2"
HMA BASE CSE 7 3/4" | (K) P HMA SC SMA 12.5 N80, 2"
P HMA BC SMA 12.5 N80, 2"
HMA BASE CSE 8 3/4" |
| (D) HMA SC "D" N70, 2"
HMA BC WID, 12" | (H) HMA SHOULDERS 9 3/4" | (L) HMA SHOULDERS 12 3/4" |
| (M) HMA SC "D" N70, 2"
HMA BC "D" N70, 2 1/4" | (N) AGGREGATE SHOULDER, TYPE B, 8" | (O) CONCRETE CURB, TYPE B (SPECIAL) |

NOTES:

1. ALL STATION AND OFFSET MEASUREMENTS OFF C I-90 UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.
4. CONNECTION TO EXISTING GUARDRAIL TO BE INCLUDED IN COST OF PROPOSED GUARDRAIL.
5. INSTALL PROPOSED TOLLWAY HANDHOLE, AND UNDERGROUND COILABLE NON METALLIC 4" DIA. CONDUIT, AND MAKE CONNECTION TO THE EXISTING LIGHTING CONDUIT RUN ACROSS I-90 WB INTO THE PROPOSED HANDHOLE. THIS WORK SHALL BE PAID FOR BY THE TOLLWAY, HANDHOLE PAY ITEM. PAYMENT FOR THE CONNECTION OF EXISTING CONDUIT AND INSTALLATION OF PROPOSED CONDUIT ADAPTERS SHALL BE INCLUDED AS PART OF THE TOLLWAY, HANDHOLE PAY ITEM.



USER NAME = agigantic	DESIGNED MJK	REVISED - 06/01/2018 - AMG
PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/30/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

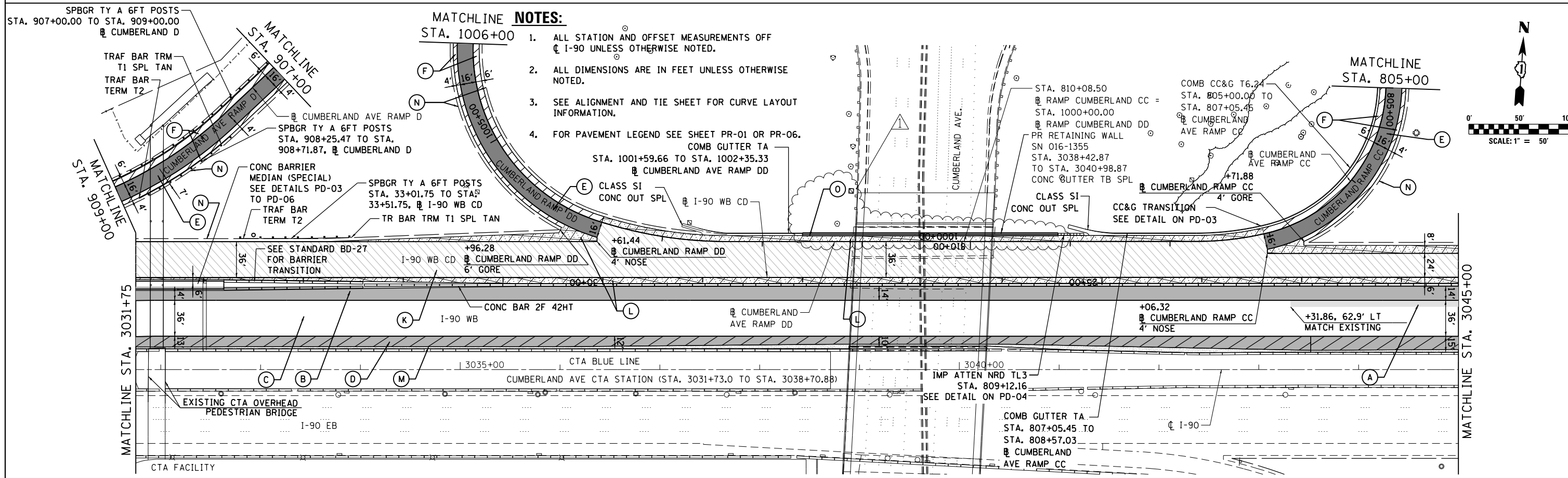
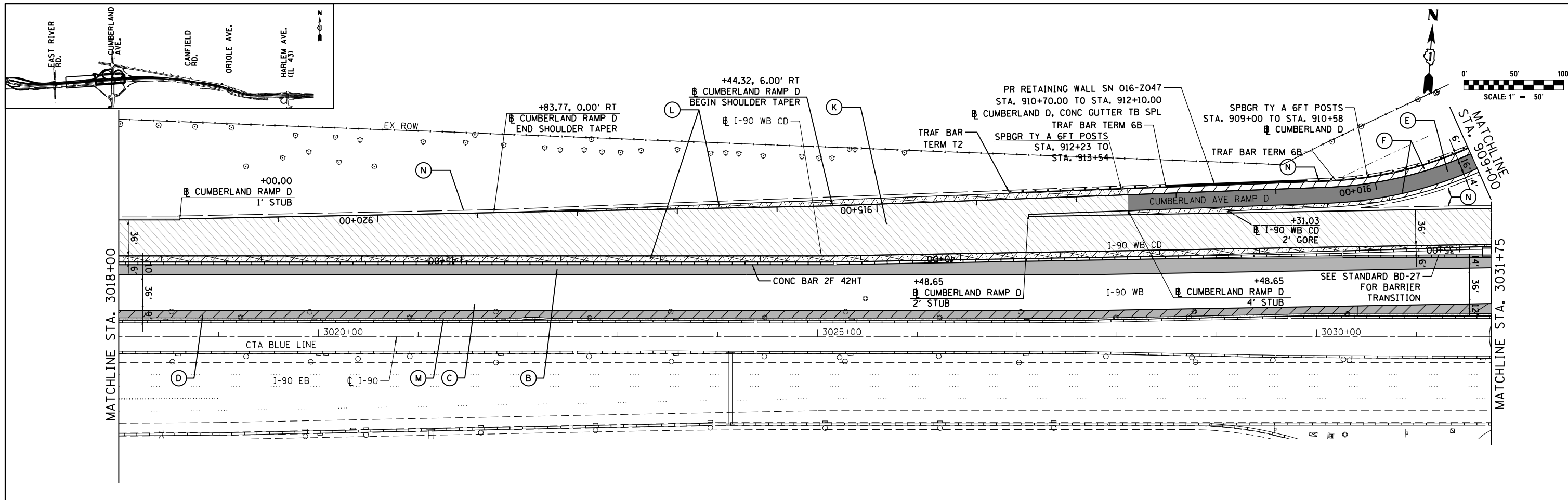
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
PROPOSED PLAN
SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. 2290+90 TO STA. 3108+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 73
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

REV. 6/4/18

FILE NAME = D168Y39-shr-pln1.dgn



- MATCHLINE NOTES:**
1. ALL STATION AND OFFSET MEASUREMENTS OFF ϕ I-90 UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 3. SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.
 4. FOR PAVEMENT LEGEND SEE SHEET PR-01 OR PR-06.



USER NAME = agigantic	DESIGNED MJK	REVISED - 06/01/2018 - AMG
PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/31/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

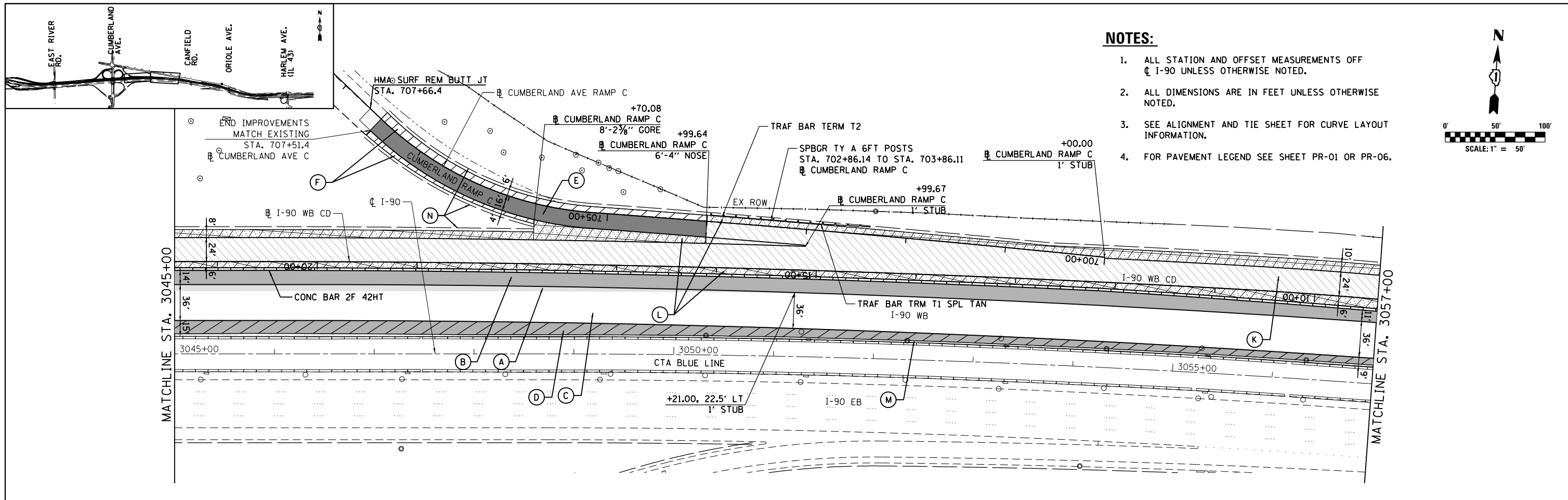
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
PROPOSED PLAN

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 74
CONTRACT NO. 60Y39				

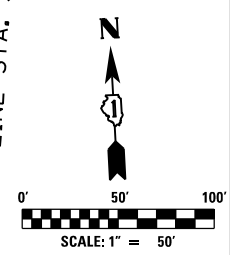
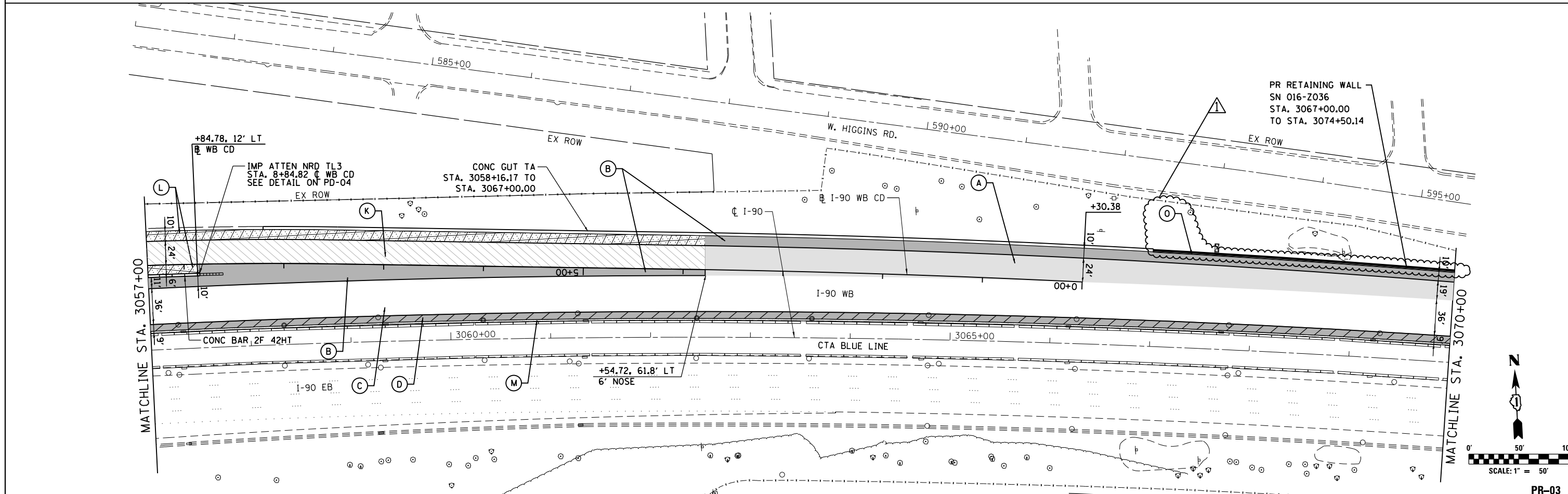
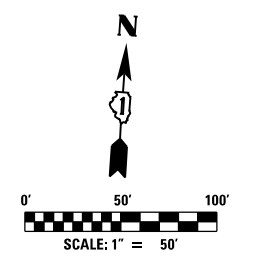
FILE NAME = D168Y39-sht-pln2.dgn

REV. 6/4/18



NOTES:

1. ALL STATION AND OFFSET MEASUREMENTS OFF ϕ I-90 UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.
4. FOR PAVEMENT LEGEND SEE SHEET PR-01 OR PR-06.



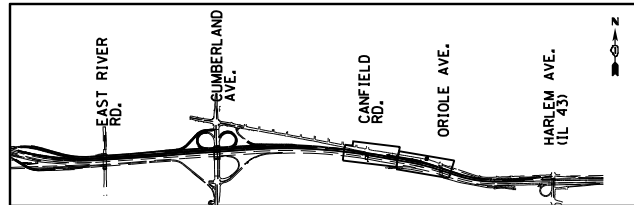
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PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/31/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
PROPOSED PLAN**

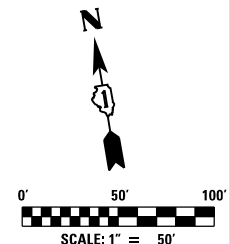
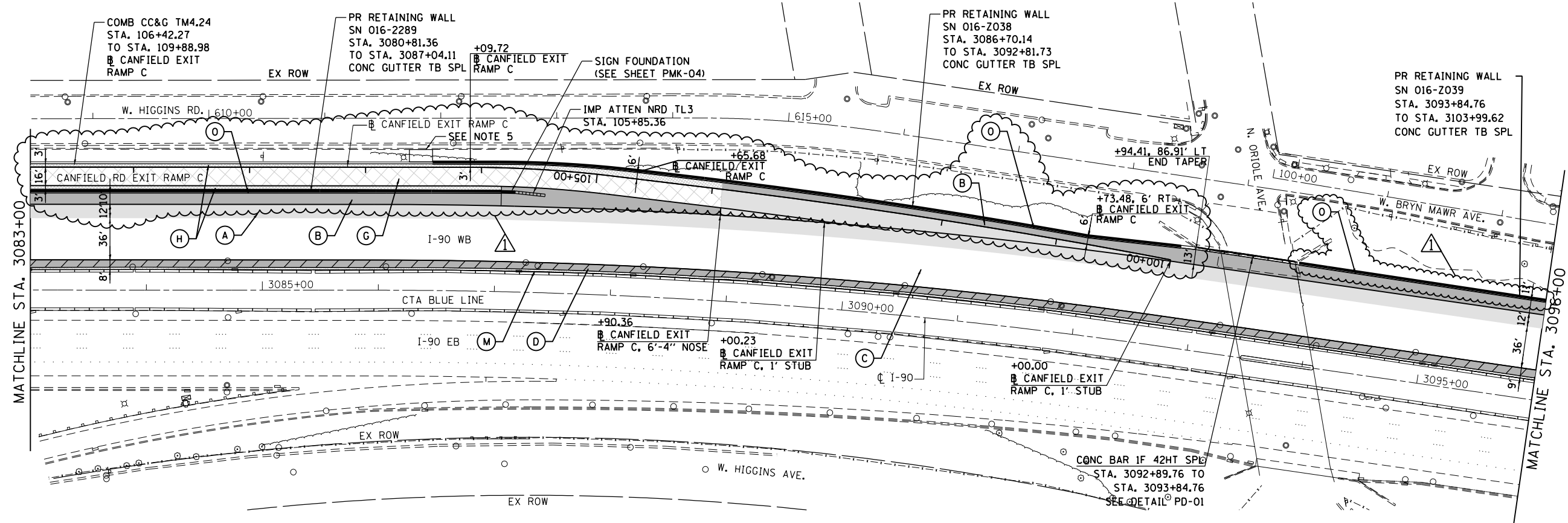
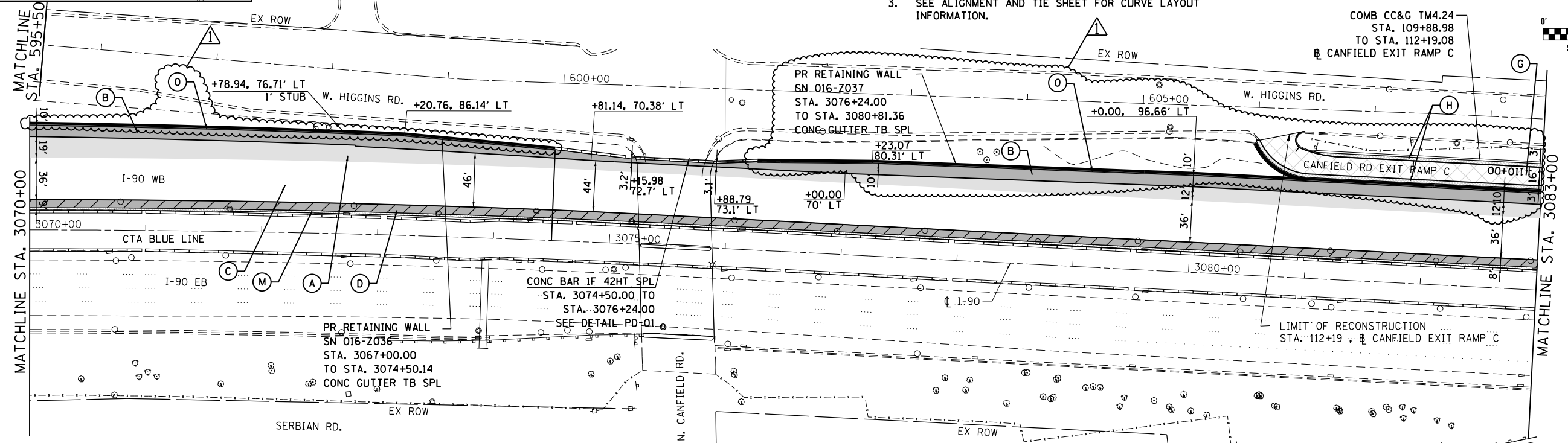
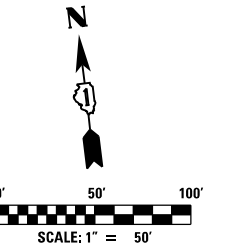
SCALE: 1"=50' SHEET NO. 3 OF 6 SHEETS STA. 3045+00 TO STA. 3070+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	75
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



NOTES:

1. ALL STATION AND OFFSET MEASUREMENTS OFF ϕ I-90 UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.
4. FOR PAVEMENT LEGEND SEE SHEET PR-01 OR PR-06.
5. MAINTENANCE ACCESS TO RETAINING WALL 20' WIDE CONC MED SURF, 6" AGG SUBGRADE, 12"



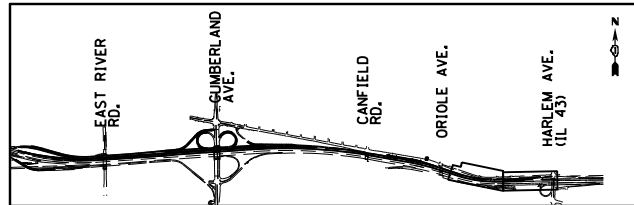
USER NAME = agliganic	DESIGNED MJK	REVISED - Δ 06/01/2018 - AMG
PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/31/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED PLAN
SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. 3070+00 TO STA. 3096+00

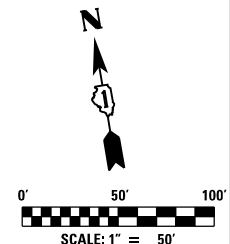
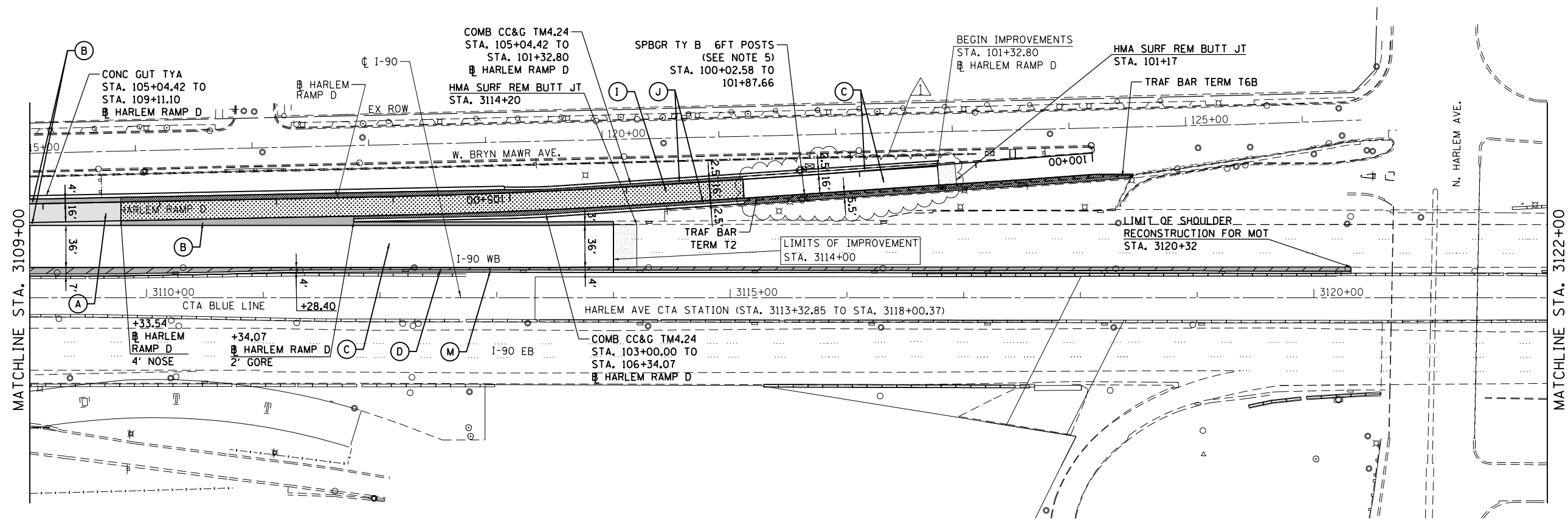
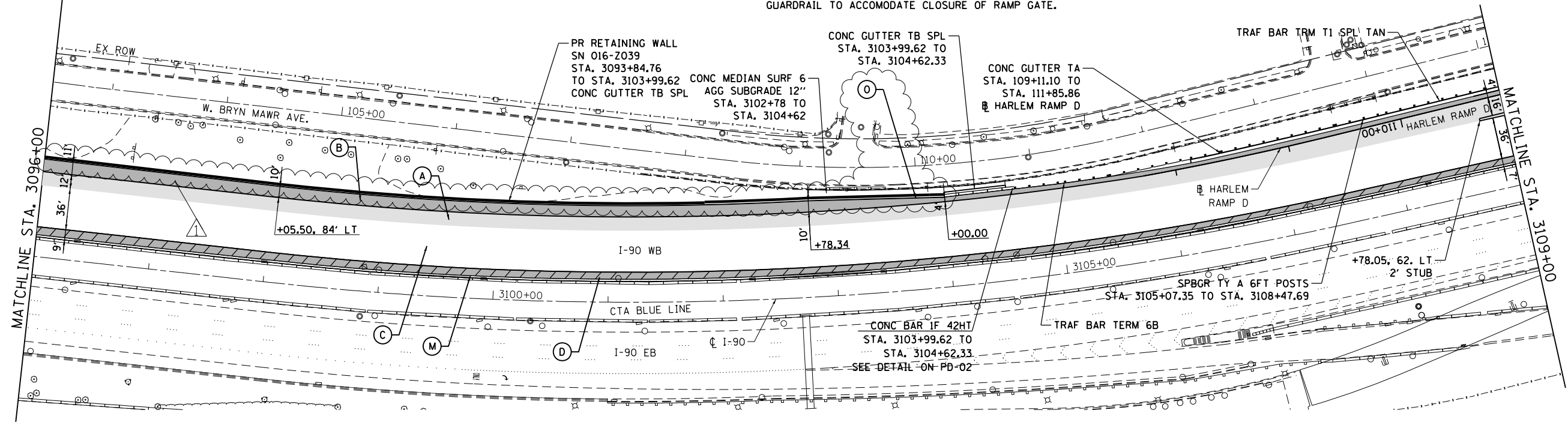
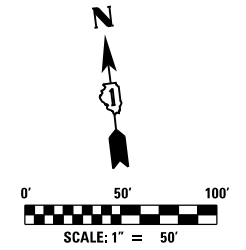
F.A.I. R.T.E. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 76
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

REV. 6/4/18



NOTES:

1. ALL STATION AND OFFSET MEASUREMENTS OFF CL I-90 UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.
4. FOR PAVEMENT LEGEND SEE SHEET PR-01 OR PR-06.
5. FIELD VERIFY GUARDRAIL POST LOCATIONS TO ALLOW FOR ADEQUATE CLEARANCE FOR ITS EQUIPMENT AND LIGHTPOLES. PROVIDE GAP IN GUARDRAIL TO ACCOMMODATE CLOSURE OF RAMP GATE.



USER NAME = agigantic	DESIGNED MJK	REVISED - 06/01/2018 - AMG
PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/30/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

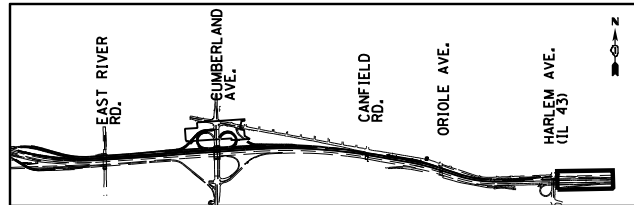
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED PLAN
SCALE: 1"=50' SHEET NO. 5 OF 6 SHEETS STA. 3096+00 TO STA. 3114+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 77
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

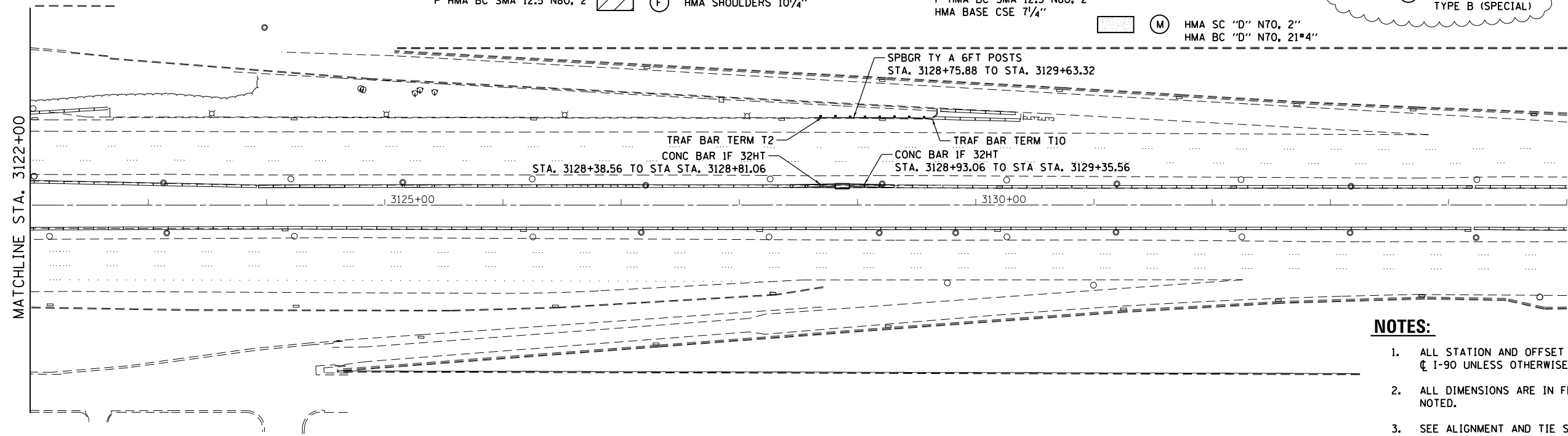
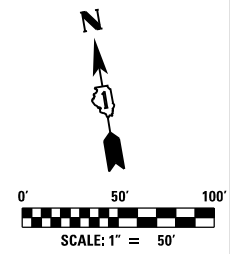
FILE NAME = D168Y39-sht-plr5.dgn

REV. 6/4/18

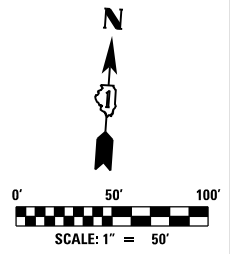
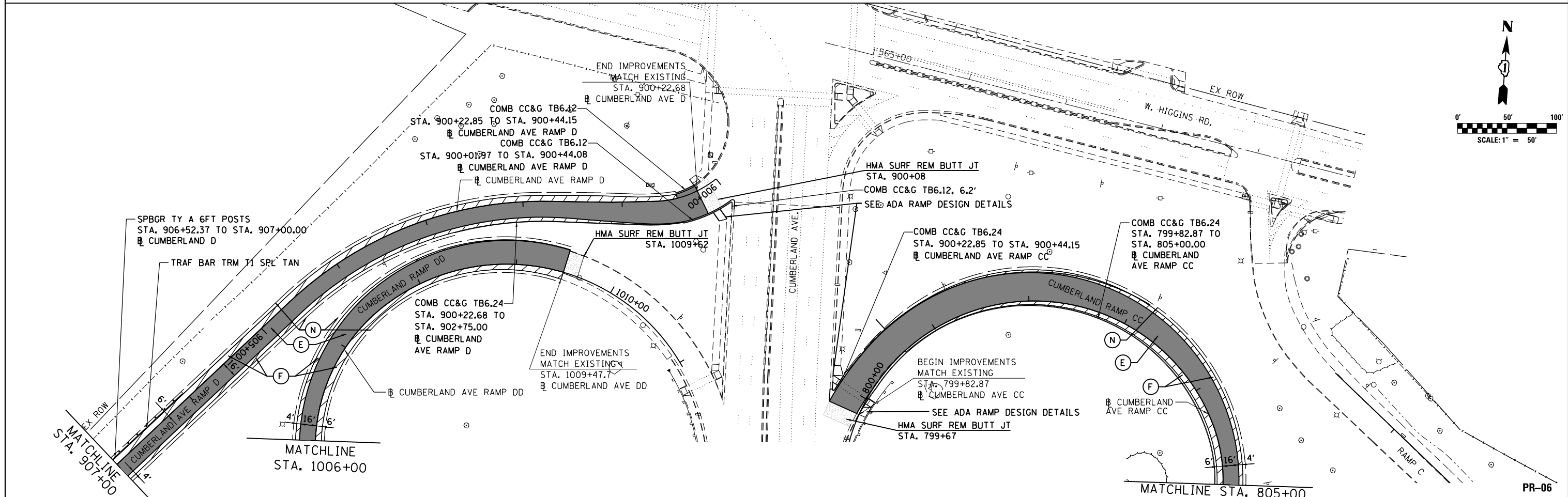


LEGEND:

- (A) P HMA SC SMA 12.5 N80, 2" / P HMA BC SMA 12.5 N80, 2" / HMA BASE CSE 9 3/4"
- (B) HMA SHOULDERS 13 3/4"
- (C) P HMA SC SMA 12.5 N80, 2" / P HMA BC SMA 12.5 N80, 2"
- (D) HMA SC "D" N70, 2" / HMA BC WID, 12"
- (E) HMA PAVEMENT (FULL-DEPTH), 10 1/4"
- (F) HMA SHOULDERS 10 1/4"
- (G) HMA SC "D" N70, 2" / HMA BASE CSE 7 3/4"
- (H) HMA SHOULDERS 9 3/4"
- (I) P HMA SC SMA 12.5 N80, 2" / P HMA BC SMA 12.5 N80, 2" / HMA BASE CSE 7 1/4"
- (J) HMA SHOULDERS 11 1/4"
- (K) P HMA SC SMA 12.5 N80, 2" / P HMA BC SMA 12.5 N80, 2" / HMA BASE CSE 8 3/4"
- (L) HMA SHOULDERS 12 3/4"
- (M) HMA SC "D" N70, 2" / HMA BC "D" N70, 21*4"
- (N) AGGREGATE SHOULDER, TYPE B, 8"
- (O) CONCRETE CURB, TYPE B (SPECIAL)



- NOTES:**
- ALL STATION AND OFFSET MEASUREMENTS OFF ϕ I-90 UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 - SEE ALIGNMENT AND TIE SHEET FOR CURVE LAYOUT INFORMATION.



USER NAME = agigantic	DESIGNED MJK	REVISED - 06/01/2018 - AMG
PLOT SCALE = 2.00" / in.	DRAWN BAJ	REVISED -
PLOT DATE = 5/31/2018	CHECKED MAM	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED PLAN**

SCALE: 1"=50' SHEET NO. 6 OF 6 SHEETS STA. 571+00 TO STA. 582+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 78
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

FILE NAME = D168Y39-sht-pln6.dgn

SUGGESTED STAGING AND TRAFFIC CONTROL

PRE-STAGE:

CONSTRUCTION

SUB-STAGE A:

1. MILL AND RESURFACE 2' WIDE AND 2" DEPTH ALONG WB I-90 LANE LINES AS SHOWN ON THE SHEETS 119A-119J PRIOR TO ANY OTHER PRESTAGE WORK.
2. REMOVE EXISTING LIGHT POLES AND INSTALL TEMPORARY LIGHTING AS SHOWN ON THE PLANS.
3. MILL AND RESURFACE WB I-90 MAINLINE OUTSIDE SHOULDER FROM STA. 3000+02 TO STA. 3105+53, AND WB I-190 FROM EXISTING STA. 10+00 RT TO STA. 34+32 RT.
4. REMOVE AND RESURFACE WB I-90 SHOULDER RUMBLE STRIPS ALONG TOLLWAY JURISDICTION FROM STA. 2986+72 TO STA. 3000+02.
5. WIDEN WB I-90 OUTSIDE SHOULDER, CUMBERLAND AVE RAMP C, RAMP D AND HARLEM AVE RAMP D PAVEMENT AT LOCATIONS IDENTIFIED ON THE PLANS. CONSTRUCT TEMPORARY CUMBERLAND RAMP CC ON TEMPORARY ALIGNMENT AS SHOWN ON THE PLANS.
6. CONSTRUCT TEMPORARY PAVEMENT AND WIDEN WB I-190 FROM EXISTING STA. 18+78 TO STA. 32+37.

SUB-STAGE B:

1. CONSTRUCT PROPOSED LEFT SIGN SUPPORT FOR OVERHEAD TRUSS AT LOCATION STA. 3107+50 AND PROPOSED DMS TRUSS SIGN AS SHOWN ON THE PLANS.
2. RECONSTRUCT WB I-90 INSIDE SHOULDER AT LOCATIONS SHOWN ON THE PLANS.
3. WIDEN CUMBERLAND RAMP DD AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:

SUB-STAGE A:

1. A TEMPORARY OFF PEAK ONE/TWO LANE CLOSURE, OUTSIDE SHOULDER CLOSURE AND PARTIAL/TEMPORARY FULL RAMP CLOSURE IS ALLOWED DURING THIS STAGE ACCORDING TO APPLICABLE ILLINOIS HIGHWAY STANDARD 701400, 701401, 701411, 701446 AND DISTRICT ONE DETAIL TC-8, TC-9, TC-17 ALONG WB I-90 AND WB I-190 DURING THE ALLOWABLE HOURS IDENTIFIED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.
2. FOLLOWING RESURFACING ALONG WB I-190 OUTSIDE SHOULDER SHIFT THE TRAFFICE OUTSIDE AND CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON THE PLANS.

SUB-STAGE B:

1. CLOSE WB I-90 INSIDE SHOULDER, PARTIAL LANE 1 TO TRAFFIC AND SHIFT THREE LANES OF WB I-90 OVER TO OUTSIDE SHOULDER. MAINTAIN TRAFFIC ALONG WB I-190 AND AT I-90/190 DIVERGE AS SHOWN ON THE PLANS.
2. SHIFT CUMBERLAND RAMP D ON WIDENED TEMPORARY PAVEMENT ON OUTSIDE AND MAINTAIN MINIMUM 14' OF RAMP PAVEMENT.
3. A TEMPORARY OFF PEAK SINGLE LANE CLOSURE, OUTSIDE SHOULDER CLOSURE AND PARTIAL RAMP CLOSURE IS ALLOWED DURING THIS STAGE ACCORDING TO APPLICABLE ILLINOIS HIGHWAY STANDARD 701400, AND DISTRICT ONE DETAIL TC-9, TC-17 ALONG WB I-90 DURING THE HOURS SPECIFIED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

STAGE 1:

CONSTRUCTION:

1. CONSTRUCT PROPOSED WB I-90 MAINLINE FOURTH LANE AND OUTSIDE SHOULDER, WB CD ROAD TO I-190, CUMBERLAND AVE RAMPS C CC, DD, CANFIELD AVE EXIT RAMP C AND HARLEM AVE RAMP D AS SHOWN ON THE PLANS.
2. DEMOLISH AND RECONSTRUCT CANFIELD AVE EXIT RAMP RETAINING WALL AS SHOWN ON THE STRUCTURAL PLANS.
3. CONSTRUCT RETAINING WALLS ALONG WIDENED OUTSIDE LANES/SHOULDER.
4. RECONSTRUCT EXISTING HARLEM AVE RETAINING WALL "F" PANEL IDENTIFIED ON STRUCTURAL REPAIR PLANS.
5. CONSTRUCT RIGHT SIGN SUPPORT FOR OVERHEAD TRUSS LOCATED AT STA. 3107+50 WEST OF HARLEM AND DMS SIGN TRUSS ALONG I-90 AND BEGIN INSTALLING OVERHEAD SIGN TRUSS.

TRAFFIC CONTROL:

1. SHIFT THE WB I-90 MAINLINE TRAFFIC ONTO NEWLY RECONSTRUCTED INSIDE SHOULDER AND WB I-190 TRAFFIC ONTO TEMPORARY PAVEMENT AND MAINTAIN EXISTING NUMBERS OF LANES @ 11' WITH A MINIMUM 2' SHOULDER ON EITHER SIDE OR AS SHOWN ON THE PLANS.
2. MAINTAIN RAMPS AT CUMBERLAND AVE AND HARLEM AVE INTERCHANGE OPEN TO TRAFFIC ON TEMPORARY PAVEMENT AS SHOWN ON THE PLANS.
3. INSTALL DETOUR SIGNS FOR WB CANFIELD EXIT RAMP CLOSURE AND DETOUR TRAFFIC AS SHOWN ON THE PLANS. CLOSE WB CANFIELD EXIT RAMP DURING THIS STAGE.

STAGE 1 SUB-STAGE A:

CONSTRUCTION:

1. CONSTRUCT TEMPORARY PAVEMENT ALONG RAMP D AS SHOWN ON THE PLAN.

TRAFFIC CONTROL:

1. SHIFT CUMBERLAND AVE RAMP DD ON NEWLY CONSTRUCTED PROPOSED RAMP PAVEMENT.
2. MAINTAIN TRAFFIC ALONG CUMBERLAND AVE RAMP D FROM STAGE 1.

STAGE 1 SUB STAGE B:

CONSTRUCTION:

1. CONTINUE CONSTRUCTION OF PROPOSED WB I-90 MAINLINE FOURTH LANE AND OUTSIDE SHOULDER, WB CD ROAD TO I-190, CUMBERLAND AVE RAMPS C CANFIELD AVE EXIT RAMP C AND HARLEM AVE RAMP D AS SHOWN ON THE PLANS.
2. BEGIN CONSTRUCTION OF PROPOSED CUMBERLAND AVE RAMP D AS SHOWN ON THE PLANS.
3. CONSTRUCT TEMPORARY PAVEMENT ALONG WB I-90 AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:

1. MAINTAIN WB I-90 MAINLINE TRAFFIC AND HARLEM AVE RAMP D TRAFFIC FROM STAGE 1.
2. CONTINUE CLOSURE OF CANFIELD EXIT RAMP C TRAFFIC AND MAINTAIN DETOUR AS SHOWN ON THE PLANS.
3. SHIFT CUMBERLAND AVE RAMP C ON PROPOSED RAMP PAVEMENT, AND CUMBERLAND AVE RAMP D ON TEMPORARY PAVEMENT INSTALLED IN PRESTAGE 1 SUBSTAGE A.

STAGE 1 SUB-STAGE C:

CONSTRUCTION:

1. CONTINUE CONSTRUCTION OF WB I-90 MAINLINE, WB CD ROAD TO I-190, CUMBERLAND AVE RAMP D, DD, HARLEM AVE RAMP D AS SHOWN ON THE PLANS.
2. INSTALL DRAINAGE LATERAL UNDERNEATH WB I-90 AT STATION 3105+75.

TRAFFIC CONTROL:

1. MAINTAIN WB I-90 AND WB I-190 MAINLINE TRAFFIC STAGING FROM STAGE 1.
2. MAINTAIN ACCESS TO/FROM CUMBERLAND AVE RAMP CC AND DD VIA A NEWLY CONSTRUCTED WB C-D ROAD PAVEMENT CONSTRUCTED AS SHOWN ON THE PLANS.
3. SHIFT HARLEM RAMP D, CUMBERLAND RAMP CC AND RAMP D ON NEWLY CONSTRUCTED PAVEMENT AS SHOWN ON THE PLANS.
4. CONTINUE WB CANFIELD EXIT RAMP CLOSURE AND MAINTAIN DETOUR SIGNS ALONG DETOUR ROUTES.
5. CLOSE EB I-90 INSIDE SHOULDER FOR CONSTRUCTION AND SHIFT EB TRAFFIC OUTSIDE AS SHOWN ON THE PLANS. MAINTAIN EB I-90 TO HARLEM AVE RAMP OPEN TO TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

STAGE 2:

CONSTRUCTION:

1. COMPLETE CONSTRUCTION OF WB CD ROAD, WB I-190 PAVEMENT & SHOULDER AS SHOWN ON THE PLAN.
2. COMPLETE CONSTRUCTION OF WB I-90 OUTSIDE SHOULDERS ALONG TOLLWAY JURISDICTION AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:

1. MAINTAIN THREE LANES OF WB MAINLINE TRAFFIC FROM STAGE 1, OPEN THE NEWLY WIDENED FOURTH (4TH) LANE AND NEWLY CONSTRUCTED WB CD ROAD, NEWLY RECONSTRUCTED WB I-190 PAVEMENT TO TRAFFIC AS SHOWN ON THE PLANS.
2. OPEN HARLEM AVE RAMP D ON FULL WIDTH AND PROVIDE ACCESS TO CUMBERLAND AVE RAMP C, CC, D, DD AND WB I-190 FROM WB CD ROAD AS SHOWN ON THE PLANS.
3. REMOVE DETOURS AND OPEN WB CANFIELD EXIT RAMP C ON NEW ALIGNMENT TO TRAFFIC.

STAGE 2 SUB-STAGE A:

CONSTRUCTION:

1. CONSTRUCT WB CD ROAD INSIDE SHOULDERS, PROPOSED CONCRETE BARRIER WALL, WB I-90 OUTSIDE SHOULDERS AS SHOWN ON THE PLANS.

TRAFFIC CONTROL:

1. MAINTAIN WB I-90 MAINLINE TRAFFIC FROM STAGE 2.
2. CLOSE WB CD LEFT LANE AND MAINTAIN TRAFFIC AS SHOWN ON THE PLANS.

STAGE 3:

CONSTRUCTION:

1. RESURFACE EXISTING WB I-90 MAINLINE THRU LANES AND INSTALL PERMANENT SIGNS AND PAVEMENT MARKINGS.

TRAFFIC CONTROL:

1. A TEMPORARY OFF PEAK SINGLE LANE CLOSURE, OUTSIDE SHOULDER CLOSURE AND PARTIAL RAMP CLOSURE IS ALLOWED DURING THIS STAGE ACCORDING TO APPLICABLE ILLINOIS HIGHWAY STANDARD 701400 AND DISTRICT ONE DETAIL TC-9, TC-17 ALONG WB I-90 AND WB I-190 DURING THE ALLOWABLE HOURS IDENTIFIED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

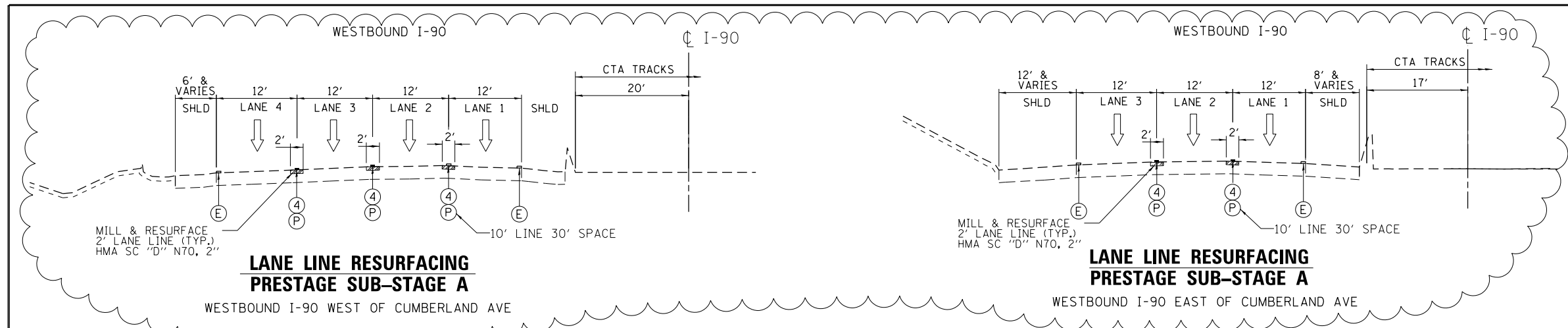
WINTER SHUTDOWN:

1. MAINTAIN WB I-90 AND WB I-190 MAINLINE AND RAMPS OPEN TO TRAFFIC AT CUMBERLAND AVE, CANFIELD AVE, HARLEM AVE AND REPLACE PAVEMENT MARKING TAPE, TYPE IV PAVEMENT MARKING ALONG THE WORK ZONE WITH EPOXY PAVEMENT MARKINGS.

MOT-GEN-2

 exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER*	DESIGNED MM	REVISED - 06/01/2018 - MAM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE SUGGESTED STAGING AND TRAFFIC CONTROL STAGING SEQUENCE AND TRAFFIC CONTROL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN MM	REVISOR -	90			(1517 & 1415) R-2	COOK	734	102	
	PLOT SCALE = #SCALE*	CHECKED KA	REVISOR -			CONTRACT NO. 60Y39				
	PLOT DATE = 5-31-2018	DATE 01/19/2018	REVISOR -			SCALE: N/A	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

FILE NAME = #FILE#

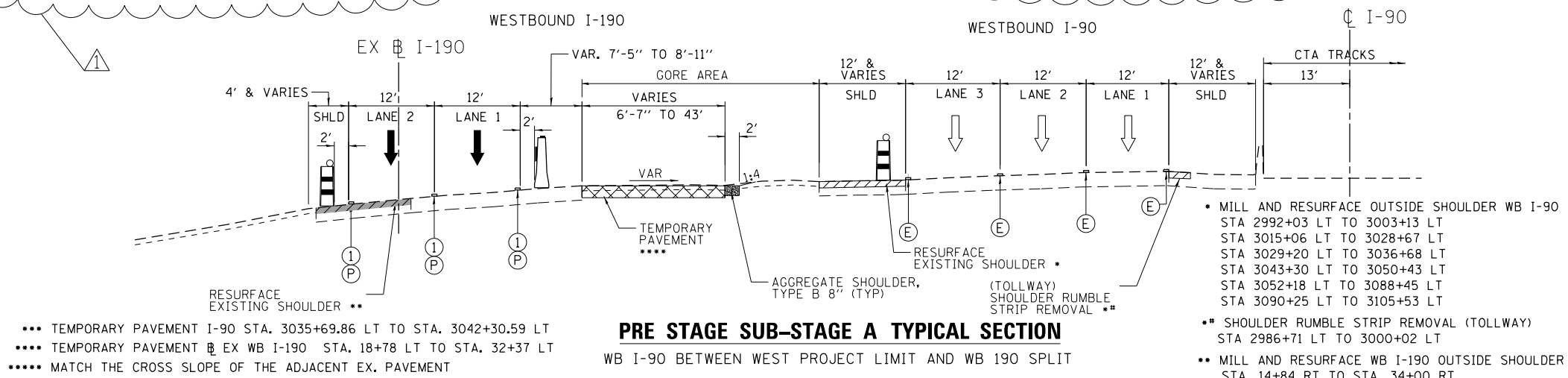


**LANE LINE RESURFACING
PRESTAGE SUB-STAGE A**

**LANE LINE RESURFACING
PRESTAGE SUB-STAGE A**

MAINTENANCE OF TRAFFIC LEGEND

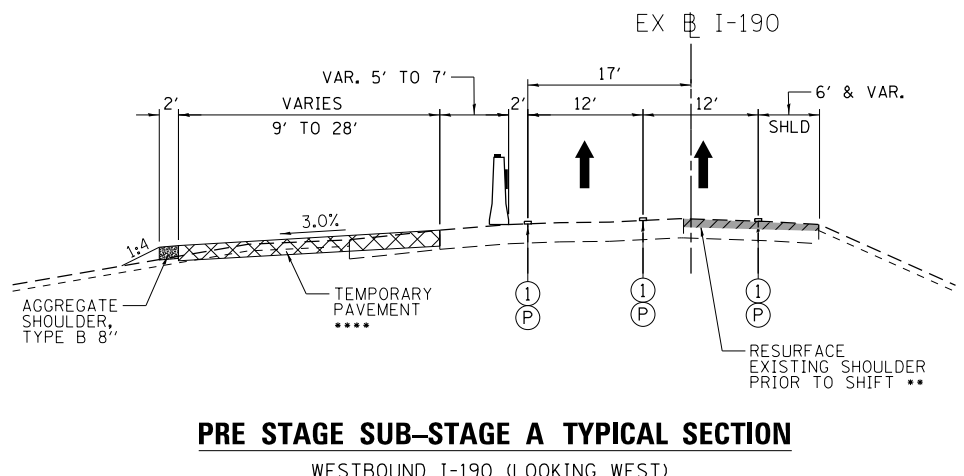
	WORK AREA
	TEMPORARY PAVEMENT (CURRENT STAGE)
	TEMPORARY PAVEMENT (PREVIOUS STAGES)
	MILL & RESURFACE PRIOR TRAFFIC USE
	EXISTING TRAFFIC DIRECTION
	PROPOSED TRAFFIC DIRECTION
	TEMPORARY CONCRETE BARRIER
	DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
①	PVT MK - LINE 4" WHITE
②	PVT MK - LINE 4" YELLOW
③	PVT MK - DBL 4" YELLOW
④	PVT MK - LINE 5" WHITE
⑤	PVT MK - LINE 6" WHITE
⑥	PVT MK - LINE 8" WHITE
⑦	PVT MK - LINE 12" WHITE
⑧	PVT MK - LINE 24" WHITE
⑨	PVT MK - LTRS & SYMB
E	EXISTING PAVEMENT MARKING
P	PVT MK TAPE T4
PR	PERMANENT PVT MK
	MILL & RESURFACE LANE LINE



PRE STAGE SUB-STAGE A TYPICAL SECTION

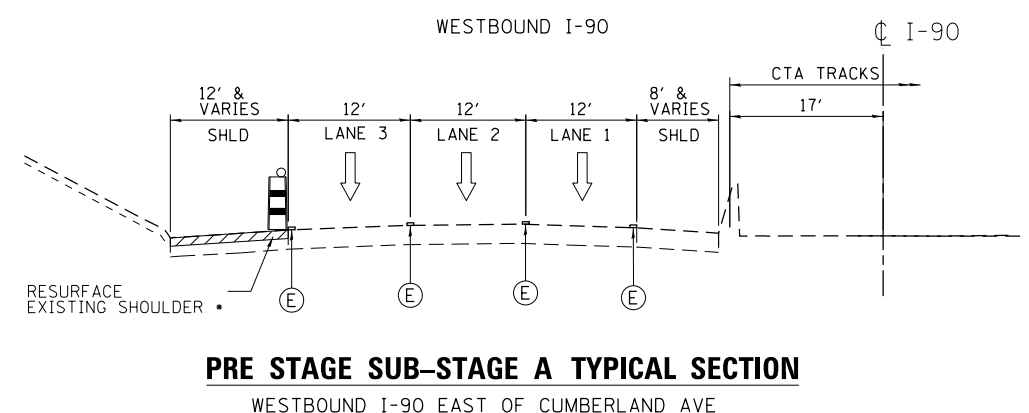
- *** TEMPORARY PAVEMENT I-90 STA. 3035+69.86 LT TO STA. 3042+30.59 LT
- **** TEMPORARY PAVEMENT EX WB I-90 STA. 18+78 LT TO STA. 32+37 LT
- ***** MATCH THE CROSS SLOPE OF THE ADJACENT EX. PAVEMENT

- MILL AND RESURFACE OUTSIDE SHOULDER WB I-90 STA 2992+03 LT TO 3003+13 LT STA 3015+06 LT TO 3028+67 LT STA 3029+20 LT TO 3036+68 LT STA 3043+30 LT TO 3050+43 LT STA 3052+18 LT TO 3088+45 LT STA 3090+25 LT TO 3105+53 LT
- SHOULDER RUMBLE STRIP REMOVAL (TOLLWAY) STA 2986+71 LT TO 3000+02 LT
- MILL AND RESURFACE WB I-90 OUTSIDE SHOULDER STA. 14+84 RT TO STA. 34+00 RT



PRE STAGE SUB-STAGE A TYPICAL SECTION

WESTBOUND I-90 (LOOKING WEST)



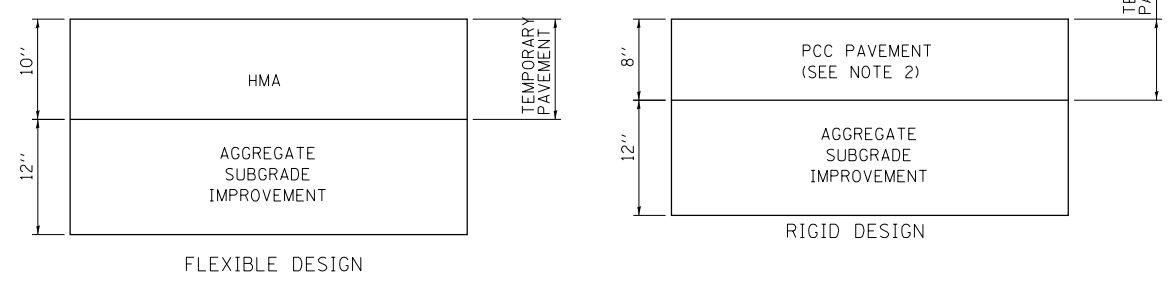
PRE STAGE SUB-STAGE A TYPICAL SECTION

WESTBOUND I-90 EAST OF CUMBERLAND AVE

TEMPORARY PAVEMENT NOTES:

- TEMPORARY PAVEMENT SHALL BE EITHER PORTLAND CEMENT CONCRETE OR HMA PAVEMENT AND SHALL BE PLACED OVER AGGREGATE SUBGRADE IMPROVEMENT 12".
- IF CONTRACTOR CHOOSES TO USE PC CONCRETE TEMPORARY PAVEMENT. THE PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY PAVEMENT REMOVAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ.YD. FOR PAVEMENT REMOVAL.
- AGGREGATE SUBGRADE IMPROVEMENT 12" WILL NOT BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ.YD. FOR PAVEMENT REMOVAL. THE REMOVAL OF AGGREGATE SUBGRADE REQUIRED BY THE PROPOSED CROSS SECTION WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.

TEMPORARY PAVEMENT DETAIL



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

USER NAME = #USER#	DESIGNED MM	REVISED - 06/01/2018 - MAM
PLOT SCALE = #SCALE#	DRAWN MM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

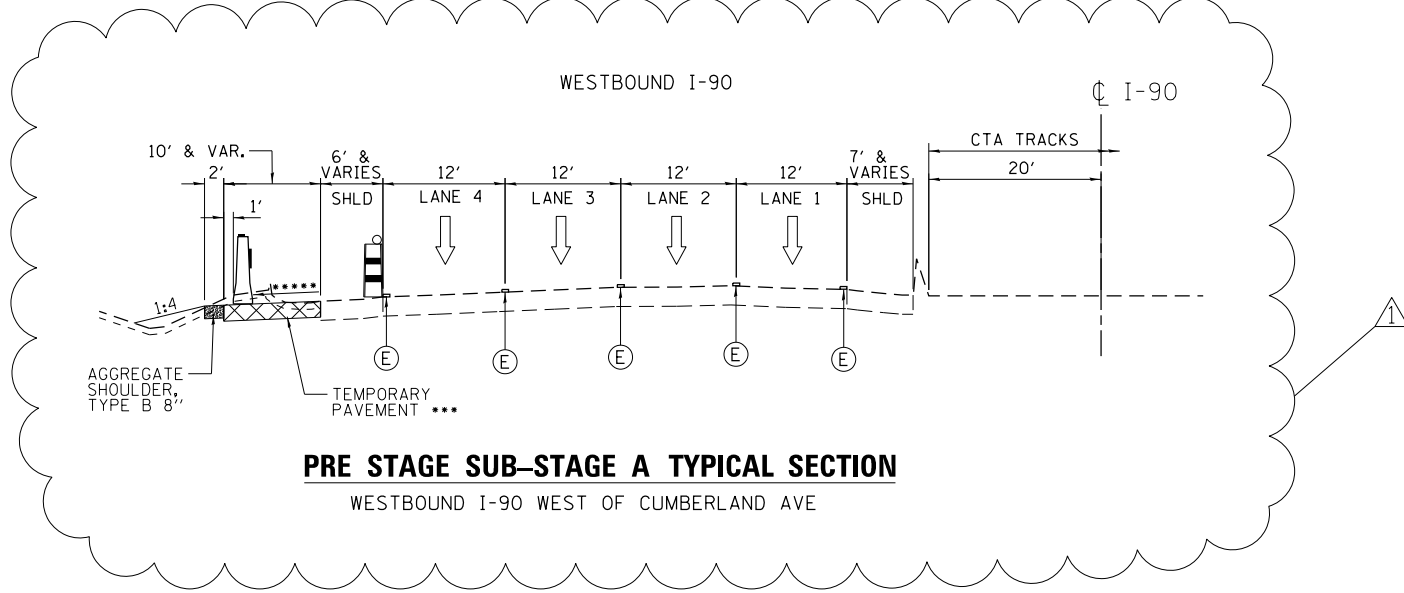
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
WB I-90 TYPICAL SECTION

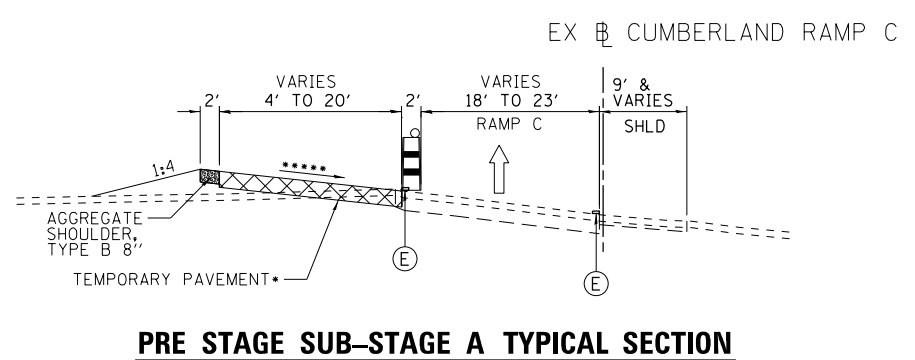
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 103
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

MOT-TYP-1

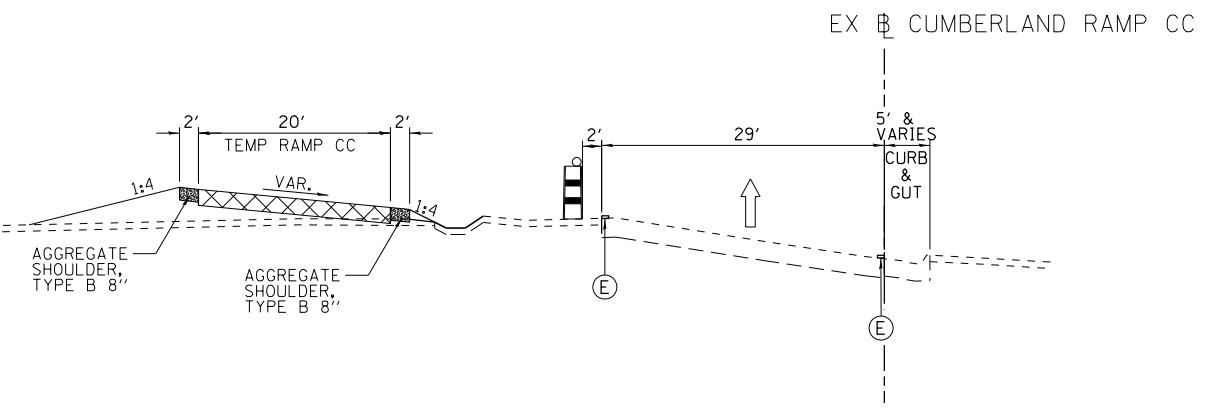
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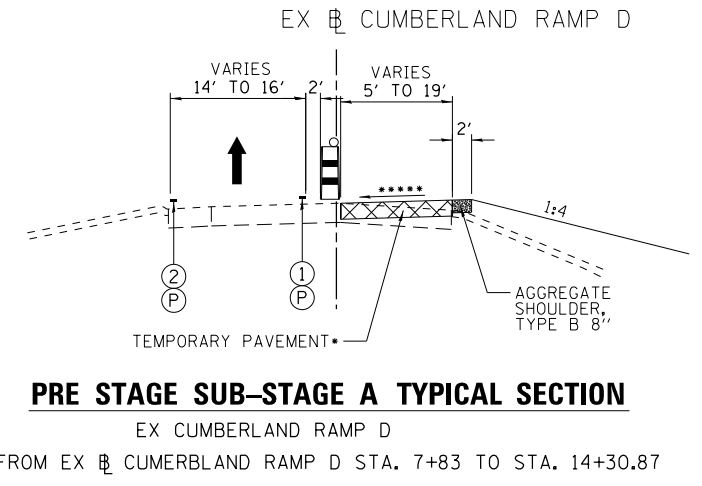
PRE STAGE SUB-STAGE A TYPICAL SECTION
WESTBOUND I-90 WEST OF CUMBERLAND AVE



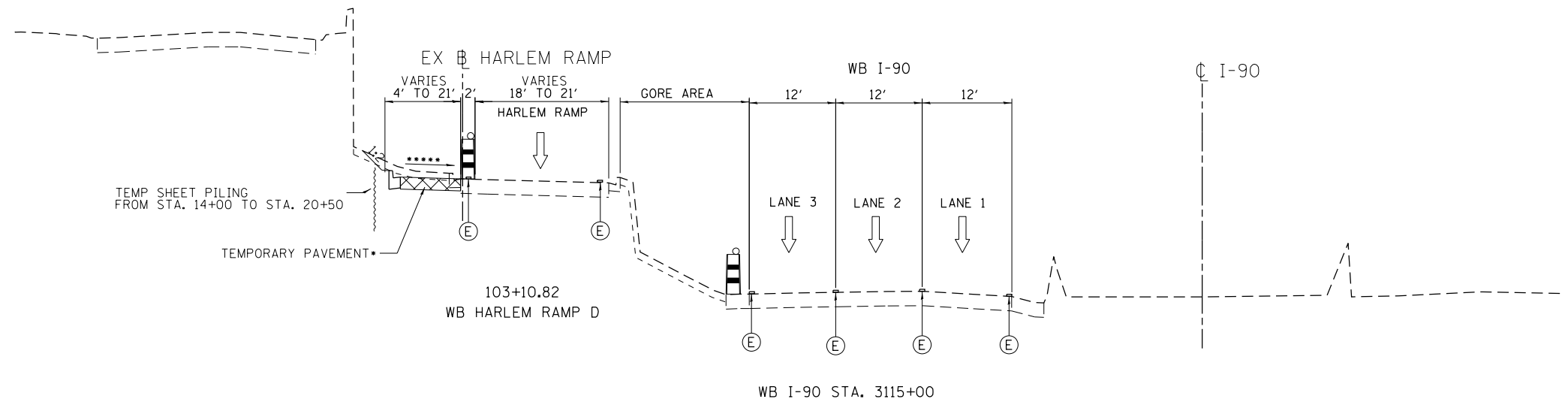
PRE STAGE SUB-STAGE A TYPICAL SECTION
EX CUMBERLAND RAMP C
*FROM EX CUMBERLAND RAMP C STA. 15+90 TO STA. 22+13



PRE STAGE SUB-STAGE A TYPICAL SECTION
CUMBERLAND RAMP CC



PRE STAGE SUB-STAGE A TYPICAL SECTION
EX CUMBERLAND RAMP D
*FROM EX CUMBERLAND RAMP D STA. 7+83 TO STA. 14+30.87



PRE STAGE SUB-STAGE A TYPICAL SECTION
HARLEM RAMP D
WB I-90 STA. 3115+00
*EX HARLEM RAMP FROM STA. 11+59 TO STA. 22+53
*MATCH THE CROSS SLOP EOF EXISTING PAVEMENT

- MAINTENANCE OF TRAFFIC LEGEND**
- WORK AREA
 - TEMPORARY PAVEMENT (CURRENT STAGE)
 - TEMPORARY PAVEMENT (PREVIOUS STAGES)
 - MILL & RESURFACE PRIOR TRAFFIC USE
 - EXISTING TRAFFIC DIRECTION
 - PROPOSED TRAFFIC DIRECTION
 - TEMPORARY CONCRETE BARRIER
 - DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ① PVT MK - LINE 4" WHITE
 - ② PVT MK - LINE 4" YELLOW
 - ③ PVT MK - DBL 4" YELLOW
 - ④ PVT MK - LINE 5" WHITE
 - ⑤ PVT MK - LINE 6" WHITE
 - ⑥ PVT MK - LINE 8" WHITE
 - ⑦ PVT MK - LINE 12" WHITE
 - ⑧ PVT MK - LINE 24" WHITE
 - ⑨ PVT MK - LTRS & SYMB
 - (E) EXISTING PAVEMENT MARKING
 - (P) PVT MK TAPE T4
 - (PR) PERMANENT PVT MK

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

USER NAME = #USER*	DESIGNED MM	REVISED - 06/01/2018 - MAM
PLOT SCALE = #SCALE*	DRAWN MM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
RAMPS TYPICAL SECTION
SCALE: 1" = 10' SHEET NO. 2 OF 13 SHEETS STA. TO STA.

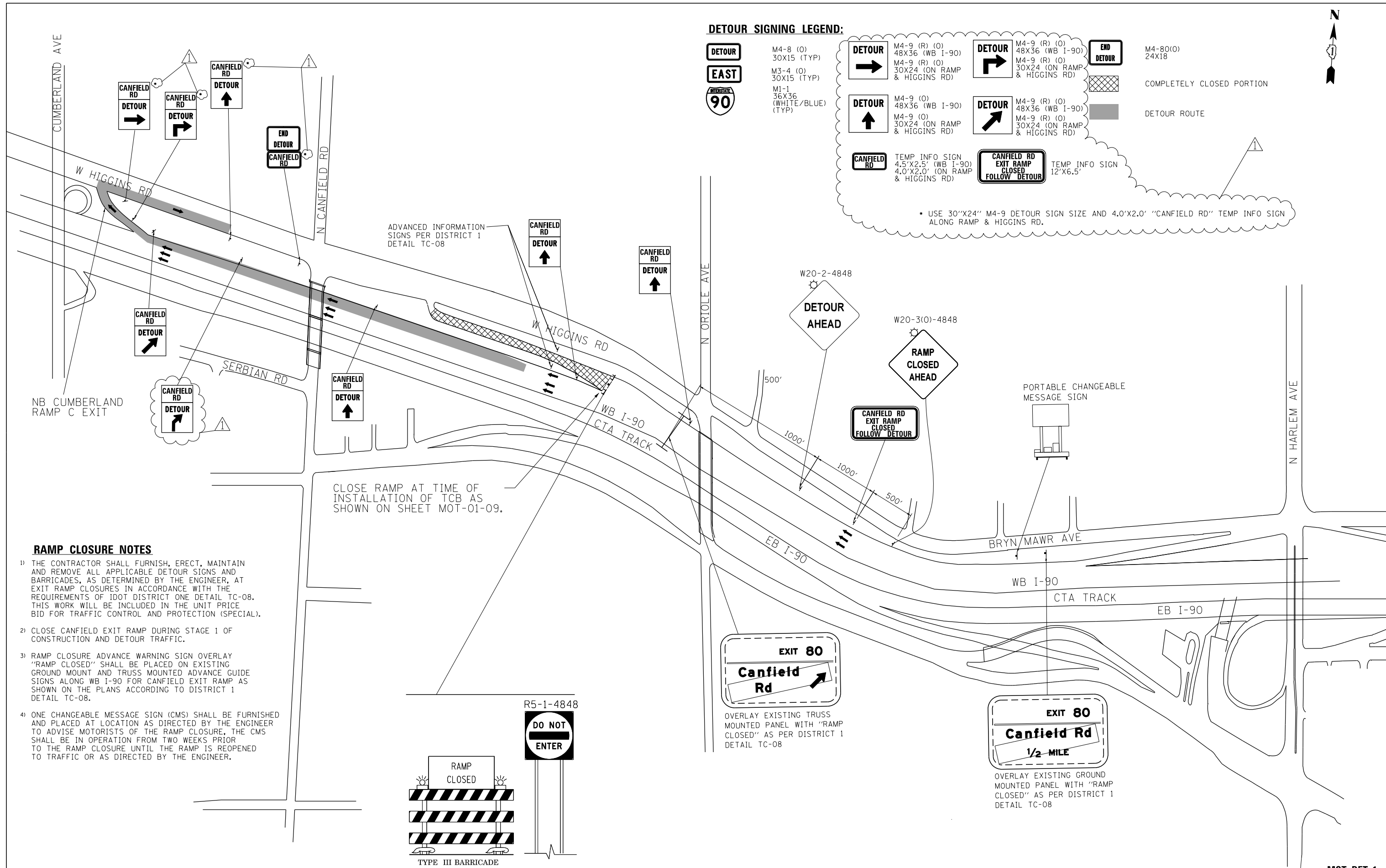
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	104
CONTRACT NO. 60Y39				



DETOUR SIGNING LEGEND:

	M4-8 (O) 30X15 (TYP)		M4-9 (R) (O) 48X36 (WB I-90)		M4-9 (R) (O) 48X36 (WB I-90)		M4-80(O) 24X18
	M3-4 (O) 30X15 (TYP)		M4-9 (O) 48X36 (WB I-90)		M4-9 (R) (O) 48X36 (WB I-90)		COMPLETELY CLOSED PORTION
	M1-1 36X36 (WHITE/BLUE) (TYP)		M4-9 (O) 30X24 (ON RAMP & HIGGINS RD)		M4-9 (R) (O) 30X24 (ON RAMP & HIGGINS RD)		DETOUR ROUTE
	TEMP INFO SIGN 4.5'X2.5' (WB I-90) 4.0'X2.0' (ON RAMP & HIGGINS RD)		TEMP INFO SIGN 12'X6.5'				

* USE 30"X24" M4-9 DETOUR SIGN SIZE AND 4.0'X2.0' "CANFIELD RD" TEMP INFO SIGN ALONG RAMP & HIGGINS RD.

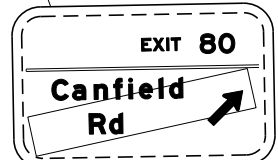
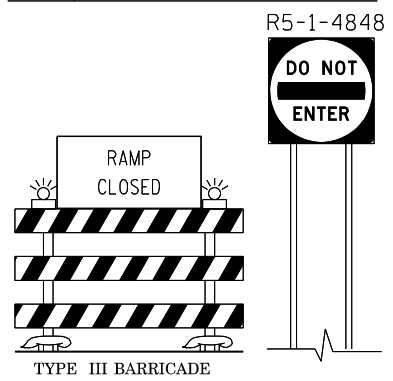


RAMP CLOSURE NOTES

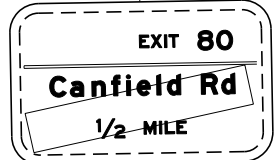
- 1) THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL APPLICABLE DETOUR SIGNS AND BARRICADES, AS DETERMINED BY THE ENGINEER, AT EXIT RAMP CLOSURES IN ACCORDANCE WITH THE REQUIREMENTS OF IDOT DISTRICT ONE DETAIL TC-08. THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- 2) CLOSE CANFIELD EXIT RAMP DURING STAGE 1 OF CONSTRUCTION AND DETOUR TRAFFIC.
- 3) RAMP CLOSURE ADVANCE WARNING SIGN OVERLAY "RAMP CLOSED" SHALL BE PLACED ON EXISTING GROUND MOUNT AND TRUSS MOUNTED ADVANCE GUIDE SIGNS ALONG WB I-90 FOR CANFIELD EXIT RAMP AS SHOWN ON THE PLANS ACCORDING TO DISTRICT 1 DETAIL TC-08.
- 4) ONE CHANGEABLE MESSAGE SIGN (CMS) SHALL BE FURNISHED AND PLACED AT LOCATION AS DIRECTED BY THE ENGINEER TO ADVISE MOTORISTS OF THE RAMP CLOSURE. THE CMS SHALL BE IN OPERATION FROM TWO WEEKS PRIOR TO THE RAMP CLOSURE UNTIL THE RAMP IS REOPENED TO TRAFFIC OR AS DIRECTED BY THE ENGINEER.

CLOSE RAMP AT TIME OF INSTALLATION OF TCB AS SHOWN ON SHEET MOT-01-09.

ADVANCED INFORMATION SIGNS PER DISTRICT 1 DETAIL TC-08



OVERLAY EXISTING TRUSS MOUNTED PANEL WITH "RAMP CLOSED" AS PER DISTRICT 1 DETAIL TC-08



OVERLAY EXISTING GROUND MOUNTED PANEL WITH "RAMP CLOSED" AS PER DISTRICT 1 DETAIL TC-08

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED	REVISED -
		DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

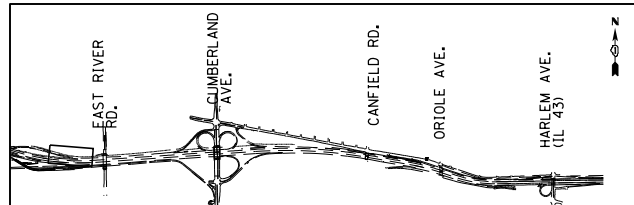
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
WB CANFIELD EXIT RAMP C DETOUR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#

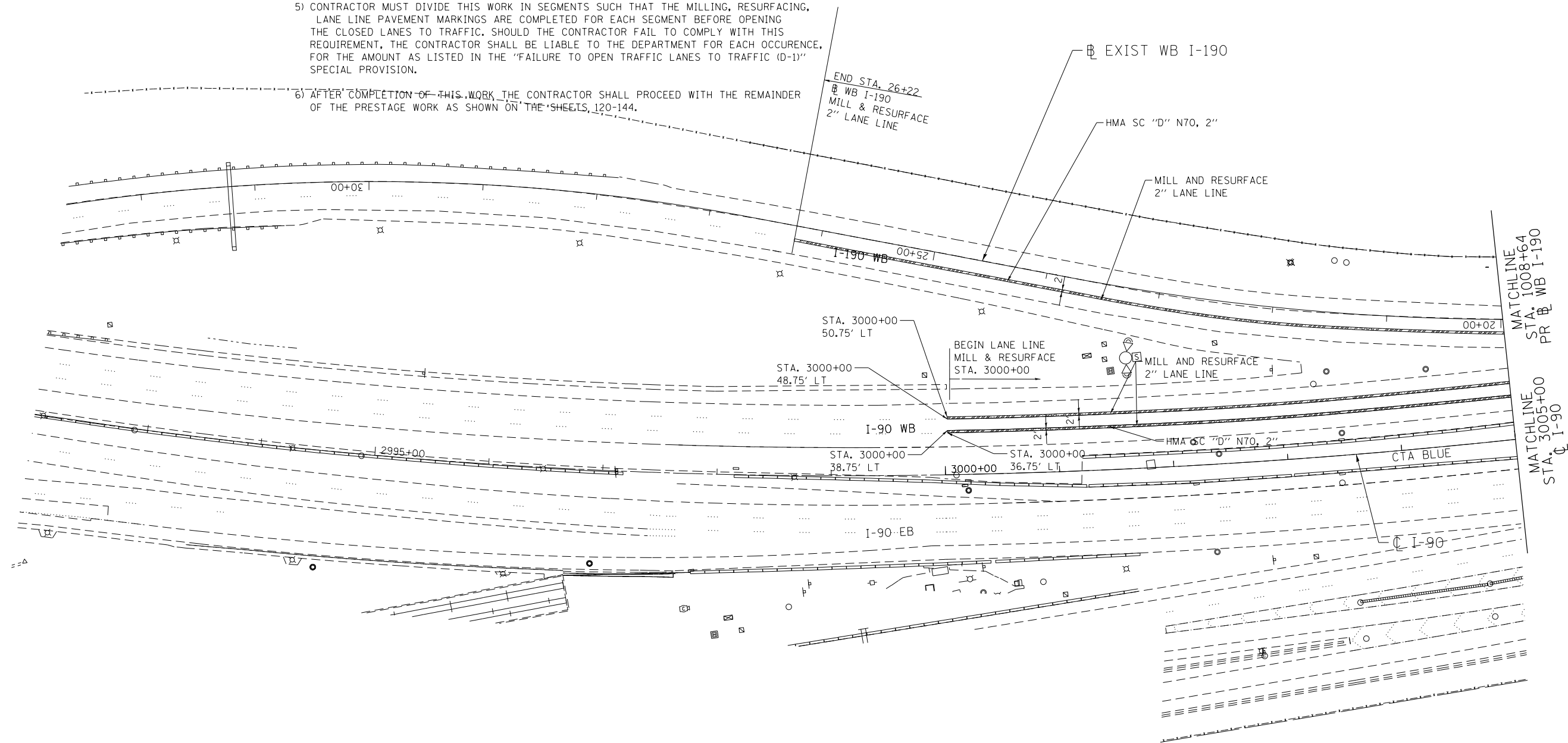
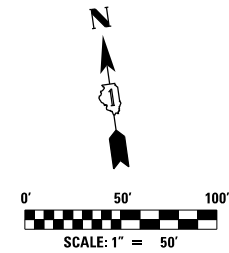
REV. 6/4/18

MOT-DET-1



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON WB I-190 DURING MILLING AND RESURFACING OPERATION.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURRENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

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

USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	DRAWN MAM	REVISED -
PLOT SCALE = *SCALE*	CHECKED KA	REVISED -
PLOT DATE = 5-31-2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUBSTAGE A
LANE LINE RESURFACING PLAN**

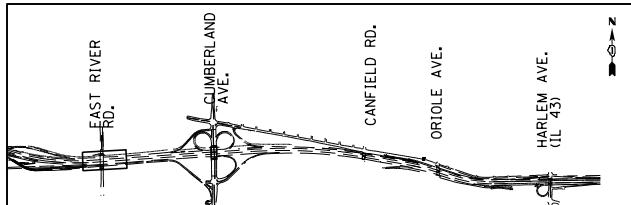
SCALE: 1"=50' SHEET NO. 1 OF 22 SHEETS STA. 2992+00 TO STA. 3005+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119A
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#

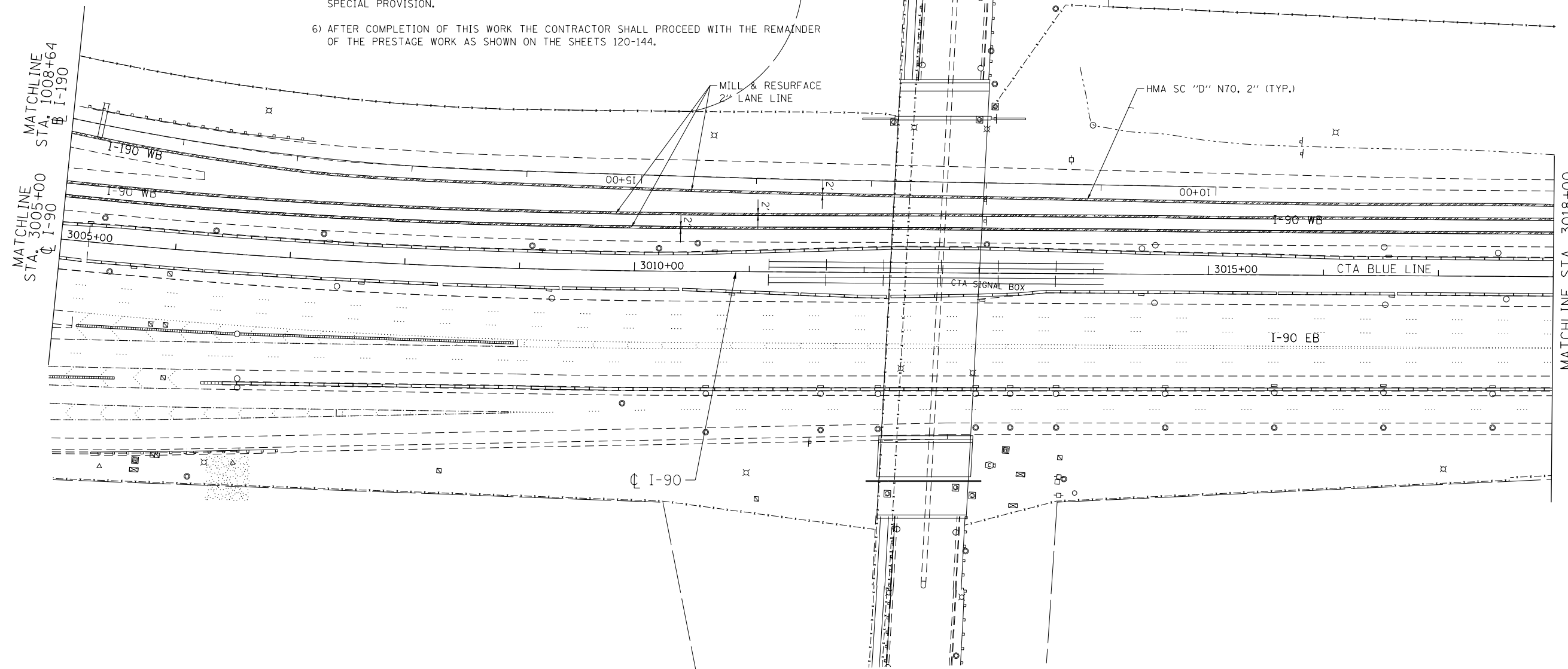
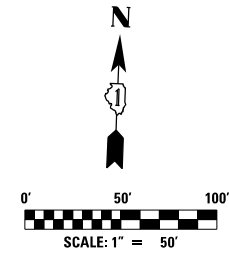
MOT-PA-A

- SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = \$USER\$	DESIGNED MAM	REVISED - 06/01/2018 - MAM
		DRAWN MAM	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED KA	REVISED -
	PLOT DATE = 5-31-2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

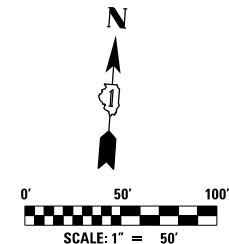
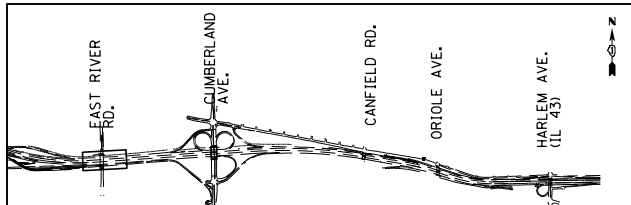
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119B
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

FILE NAME = \$FILE\$

SCALE: 1"=50' SHEET NO. 2 OF 22 SHEETS STA. 3005+00 TO STA. 3018+00

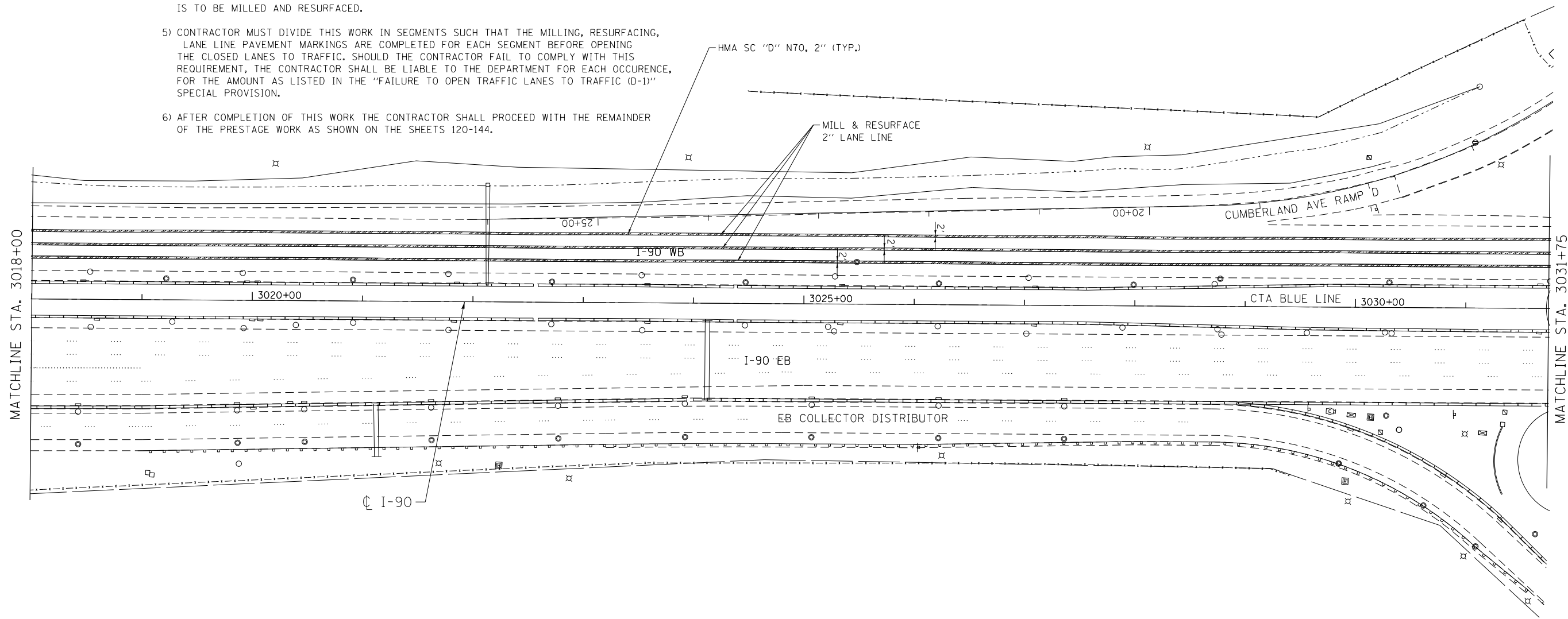
- SHEET ADDED

MOT-PA-B



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-C

 <small>exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY</small>	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

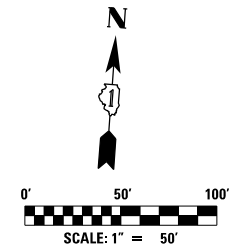
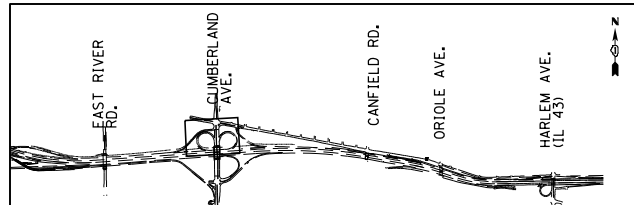
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119C
CONTRACT NO. 60Y39				

SCALE: 1"=50' SHEET NO. 3 OF 22 SHEETS STA. 3018+00 TO STA. 3031+75

ILLINOIS FED. AID PROJECT

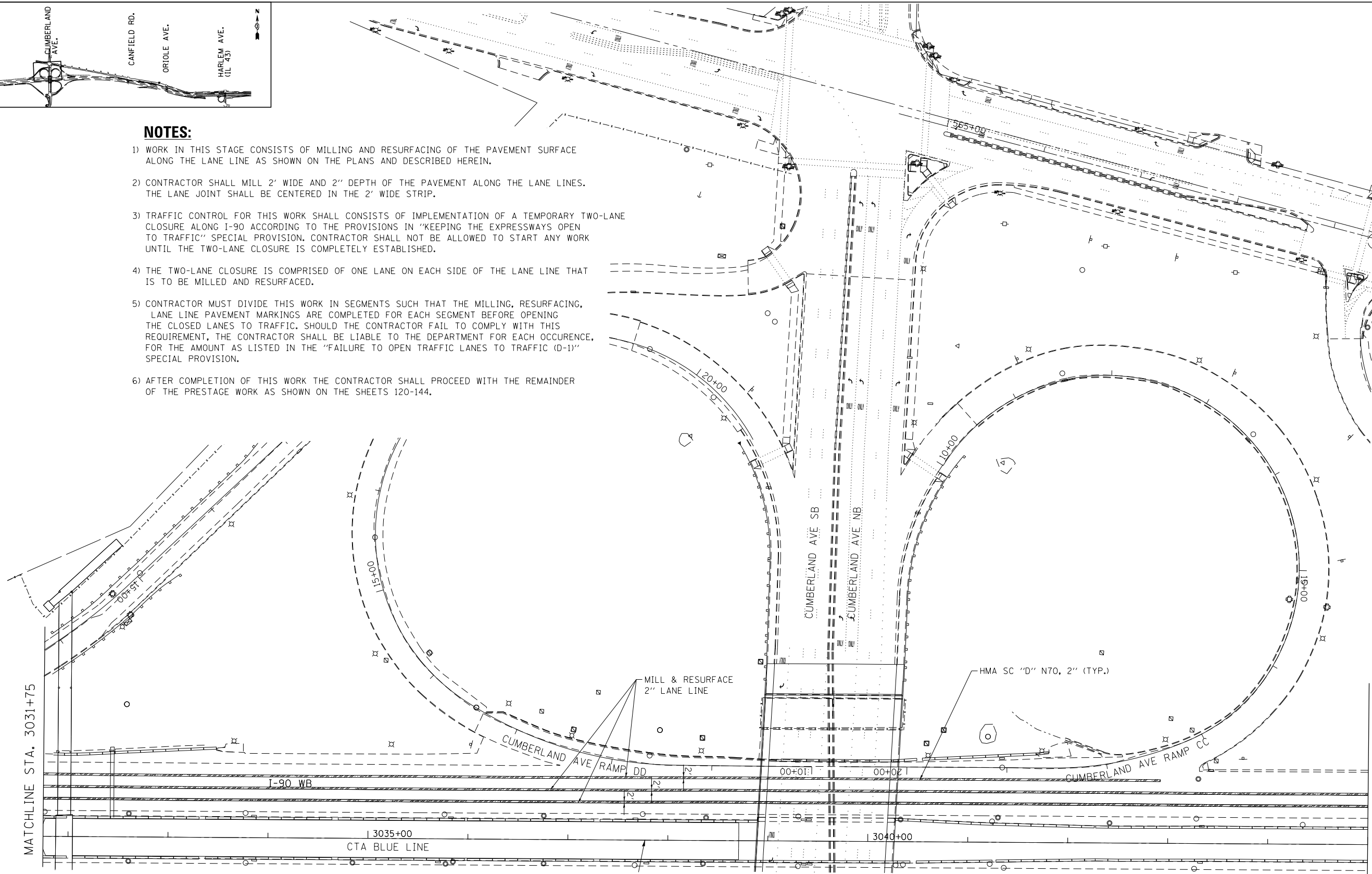
FILE NAME = #FILE#

▲ - SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-D

 exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

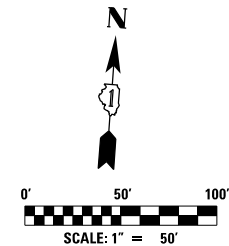
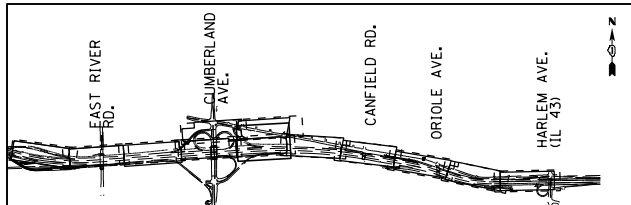
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	1190
				CONTRACT NO. 60Y39

SCALE: 1"=50' SHEET NO. 4 OF 22 SHEETS STA. 3031+75 TO STA. 3045+00

ILLINOIS FED. AID PROJECT

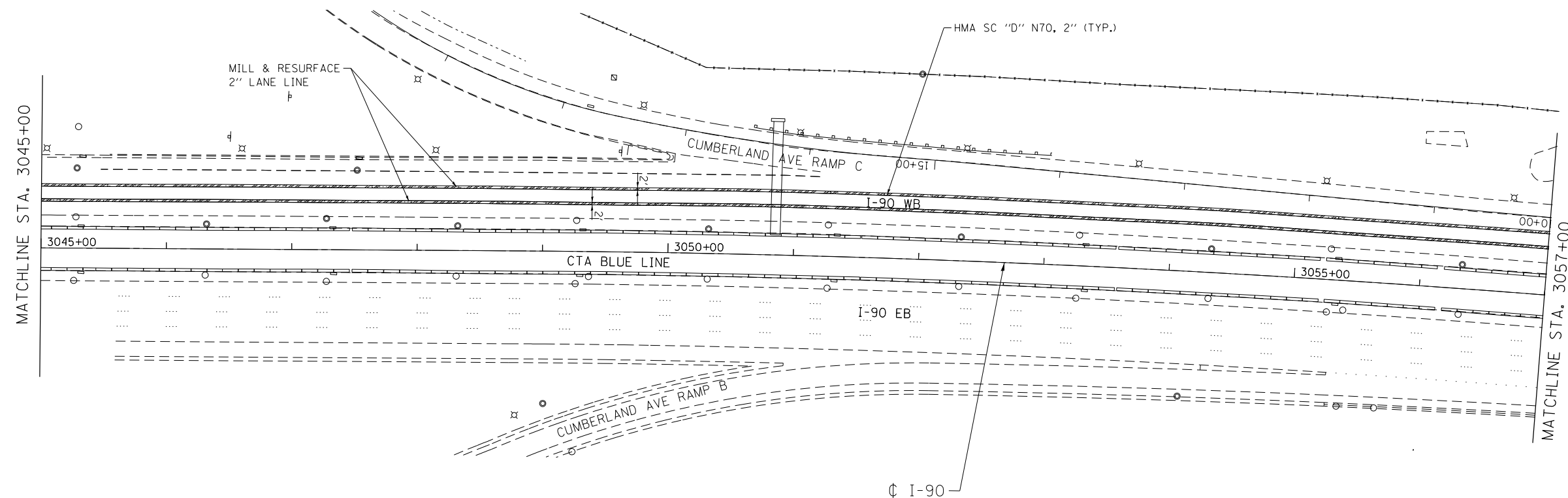
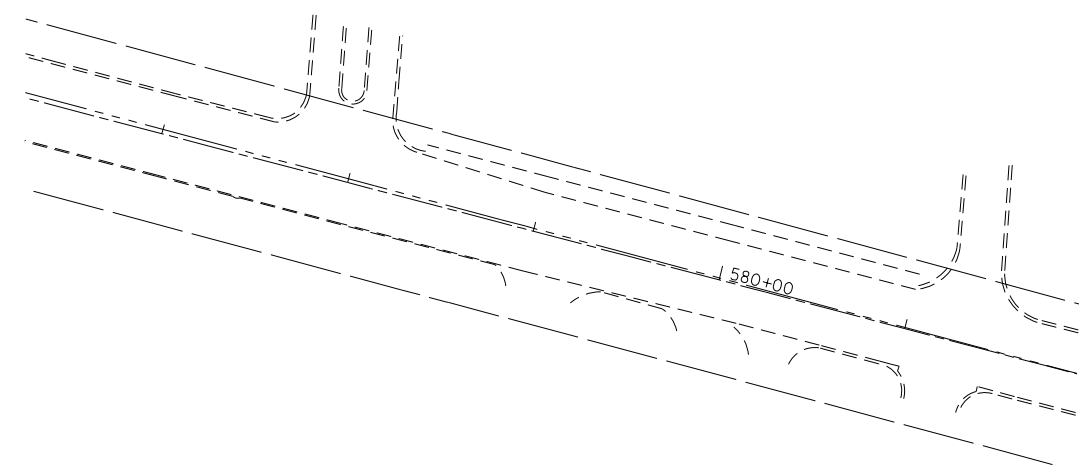
FILE NAME = #FILE#

▲ - SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-E

 exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

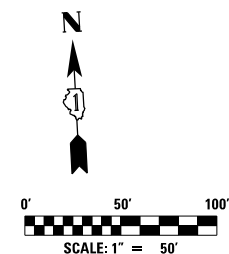
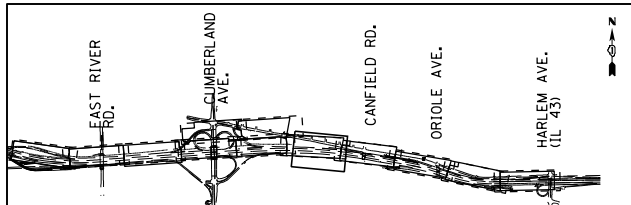
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119E
			CONTRACT NO. 60Y39	

SCALE: 1"=50' SHEET NO. 5 OF 22 SHEETS STA. 3045+00 TO STA. 3057+00

ILLINOIS FED. AID PROJECT

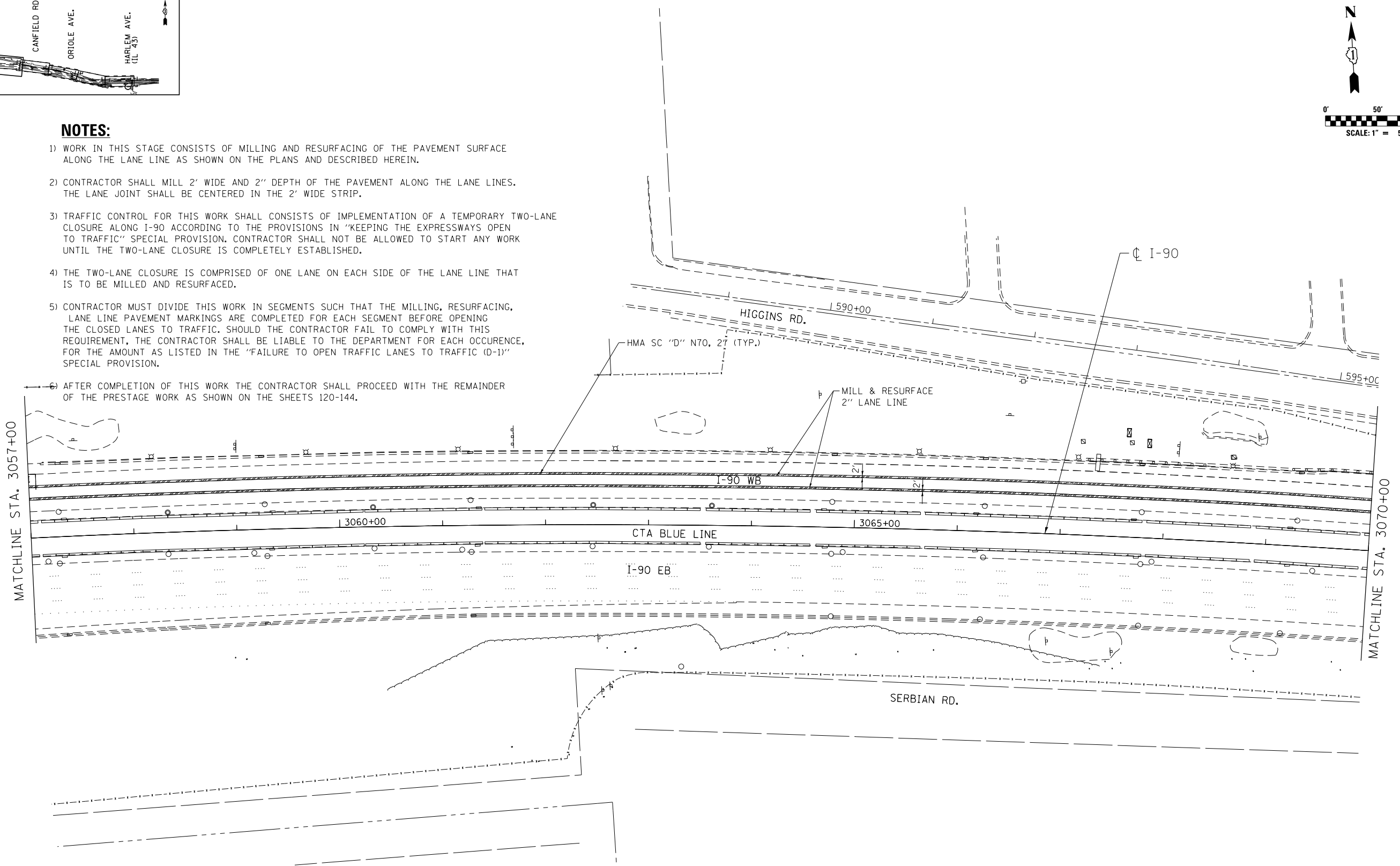
FILE NAME = #FILE#

① - SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSIST OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-F

 <small>exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY</small>	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

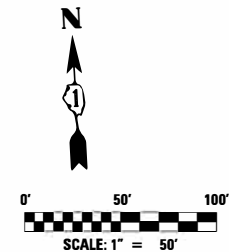
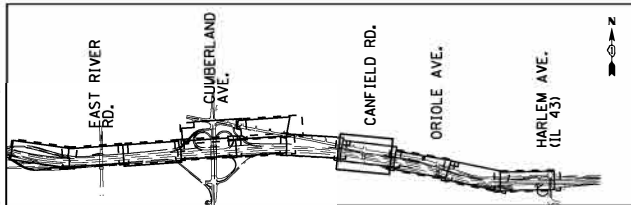
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119F
			CONTRACT NO. 60Y39	

SCALE: 1"=50' SHEET NO. 6 OF 22 SHEETS STA. 3057+00 TO STA. 3070+00

ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#

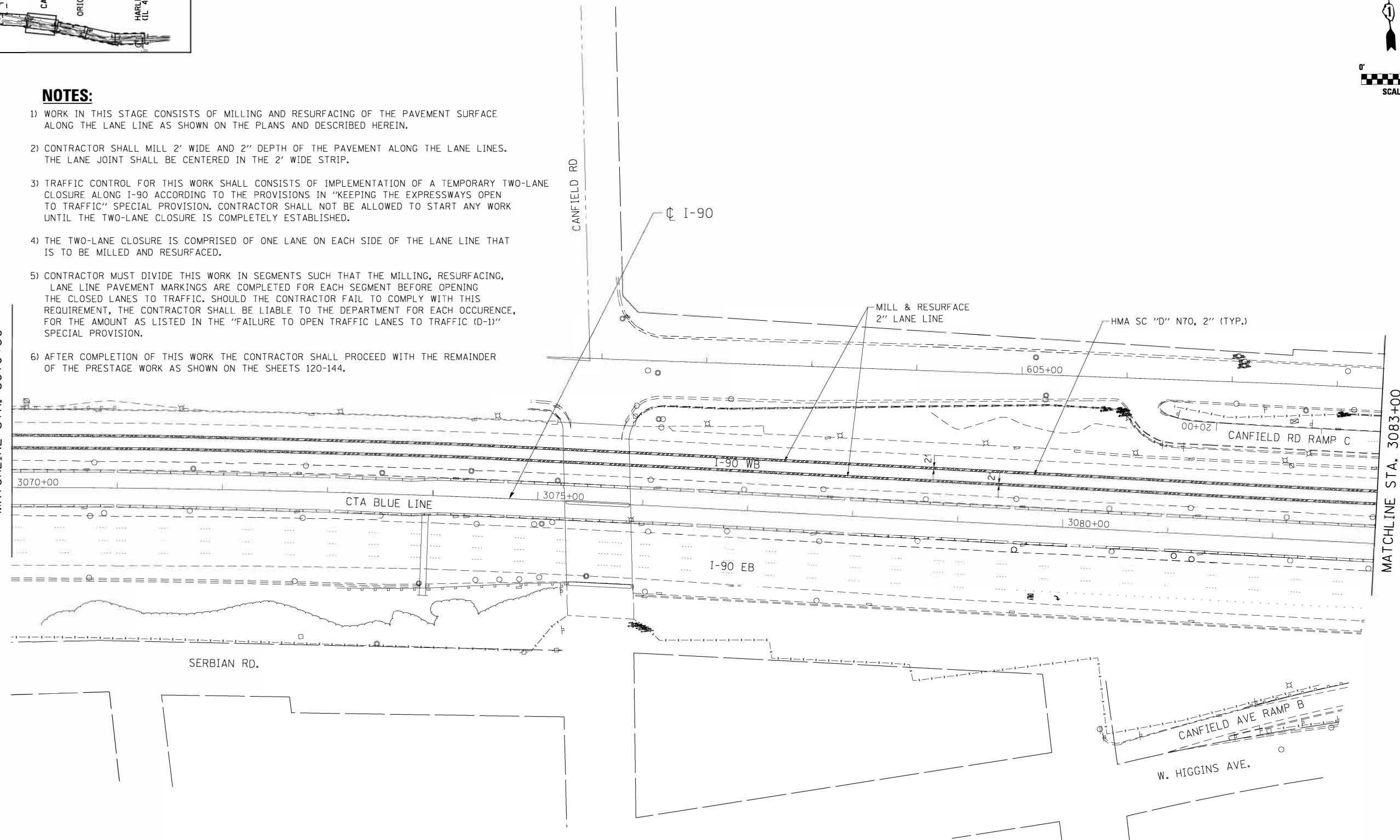
▲ - SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2" WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSIST OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.

MATCHLINE STA. 3070+00



MATCHLINE STA. 3083+00

LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

 <small>exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY</small>	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 7 OF 22 SHEETS STA. 3070+00 TO STA. 3083+00

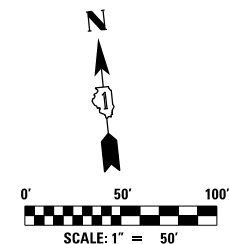
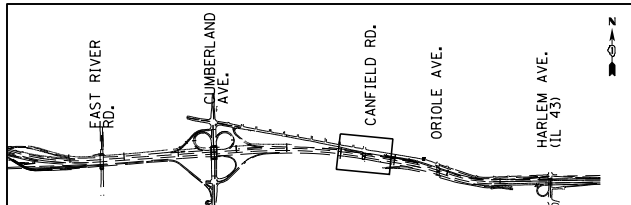
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119G
CONTRACT NO. 60Y39				

ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#

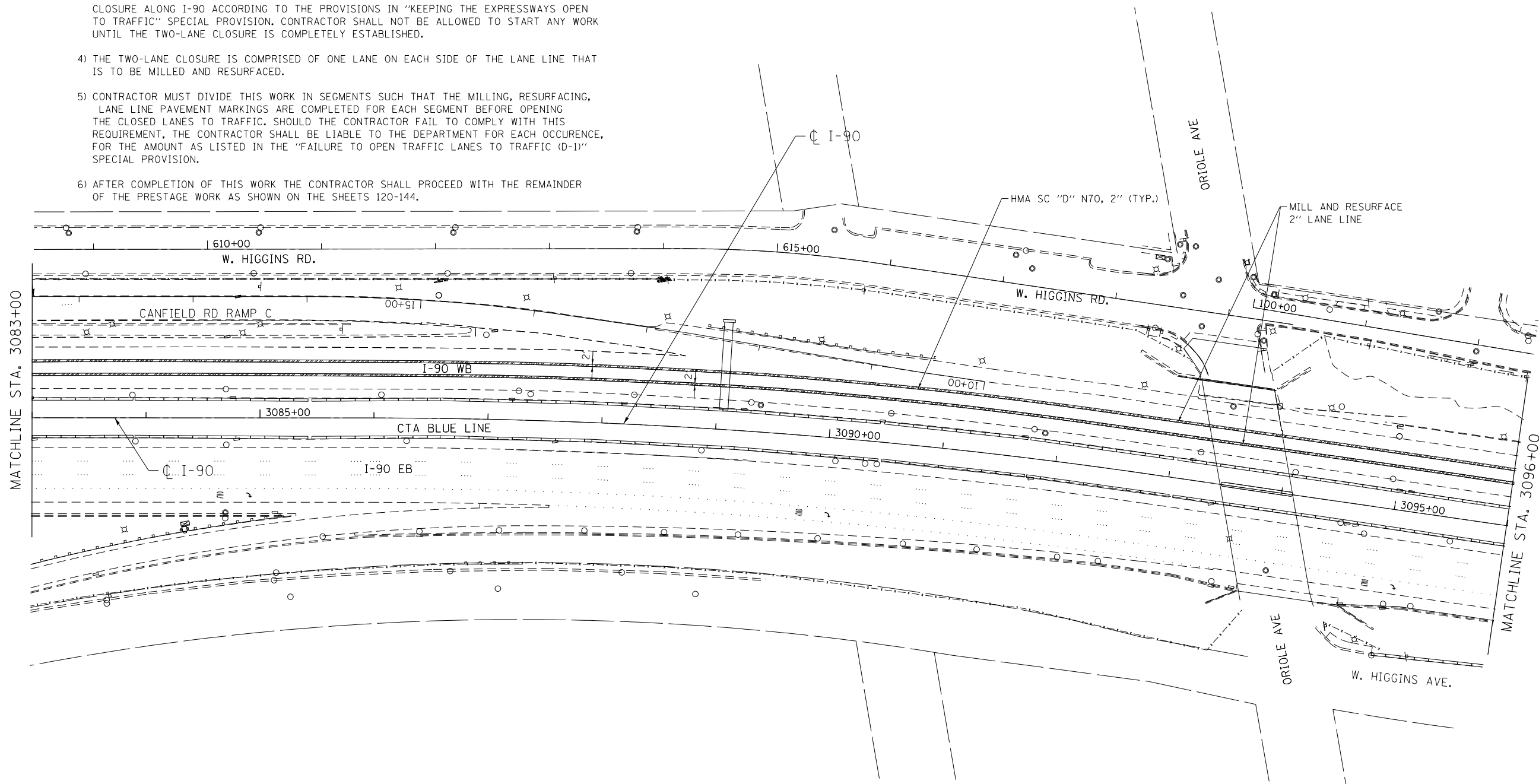
▲ - SHEET ADDED 6/4/18

MOT-PA-G



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-H

 <small>exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY</small>	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

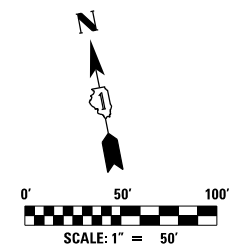
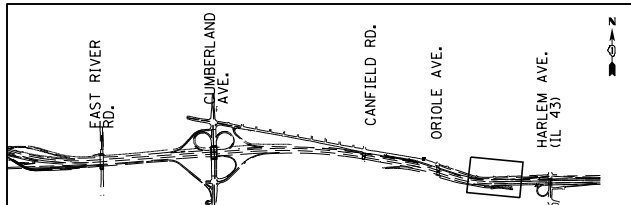
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 8 OF 22 SHEETS STA. 3083+00 TO STA. 3096+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119H
				CONTRACT NO. 60Y39
<small>ILLINOIS FED. AID PROJECT</small>				

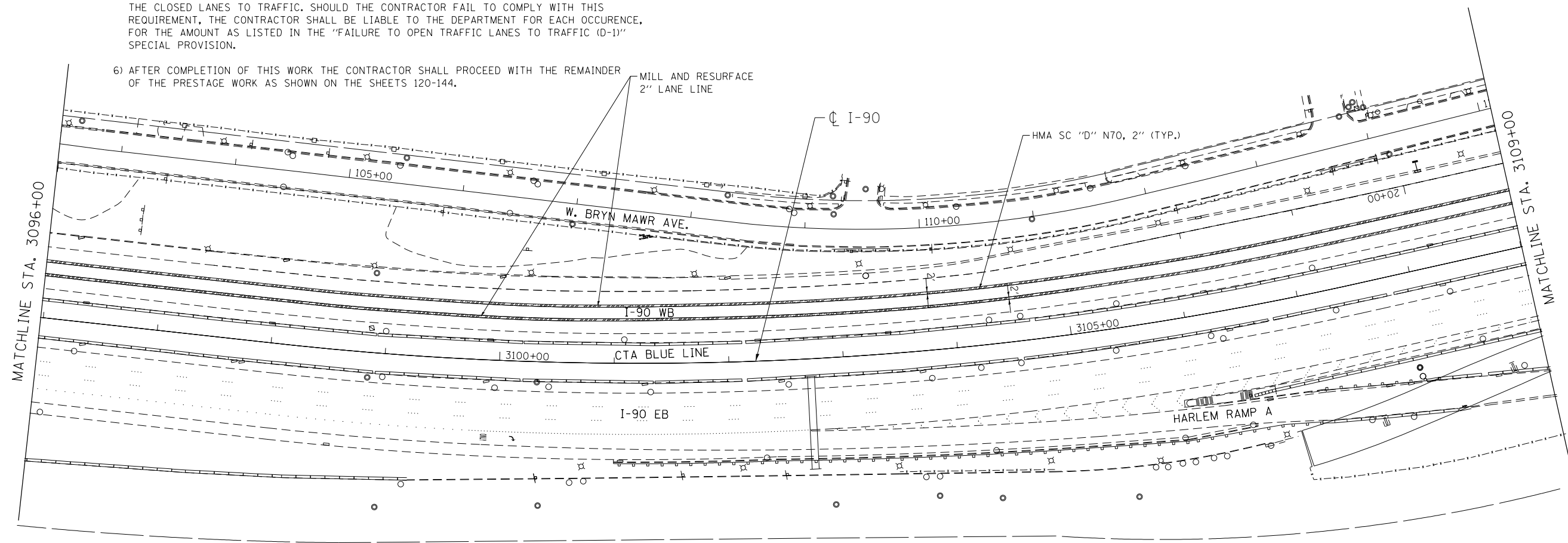
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▲ - SHEET ADDED 6/4/18



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND
 LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

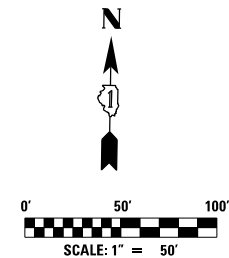
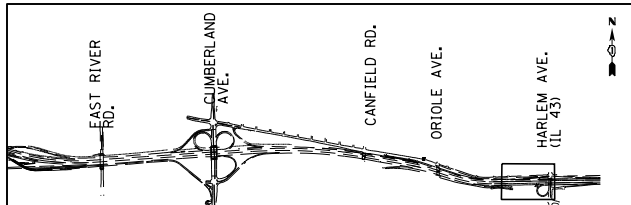
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 PRESTAGE SUB STAGE A
 LANE LINE RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 9 OF 22 SHEETS STA. 3096+00 TO STA. 3109+00

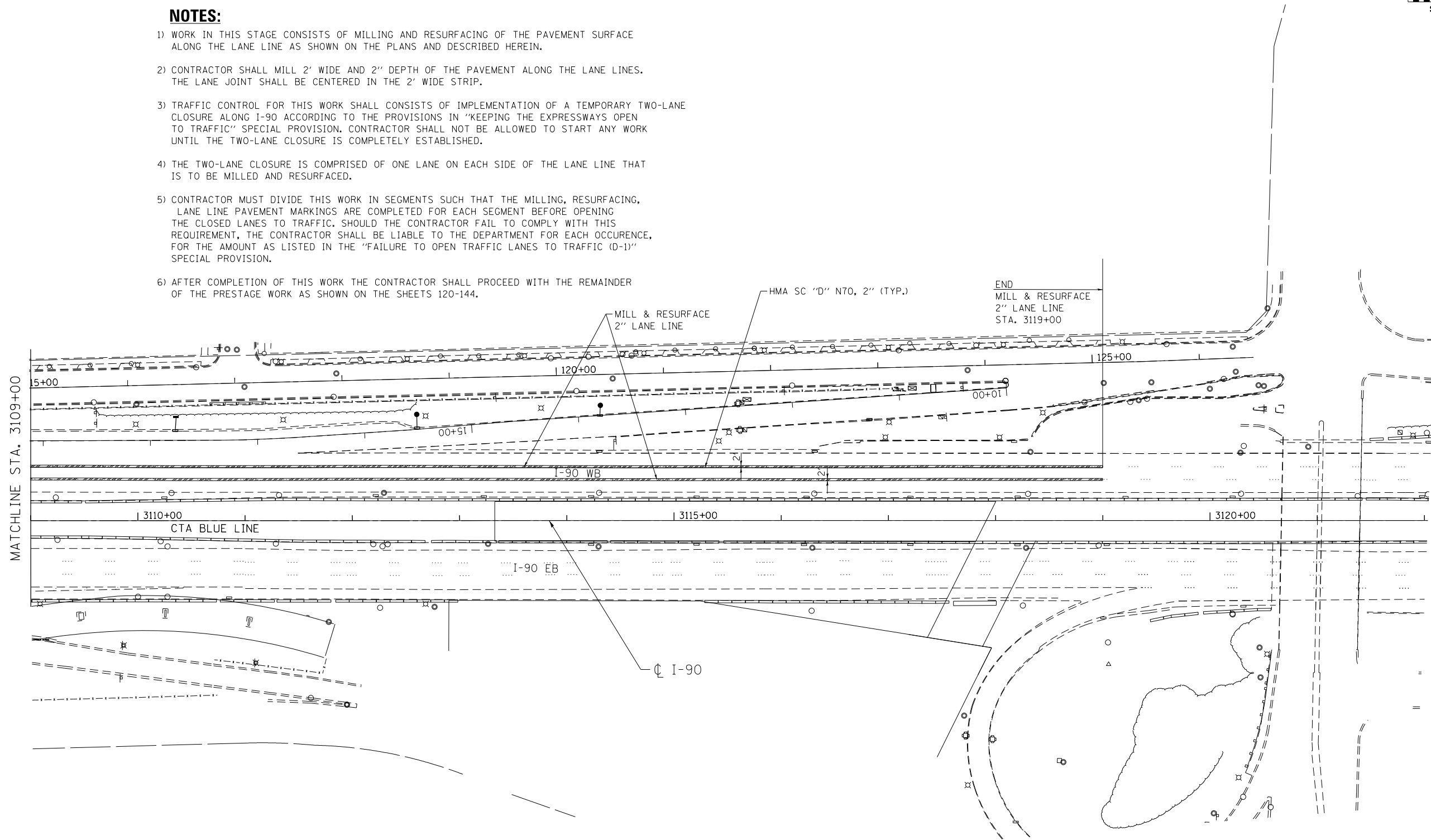
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	1191
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

MOT-PA-1



NOTES:

- 1) WORK IN THIS STAGE CONSISTS OF MILLING AND RESURFACING OF THE PAVEMENT SURFACE ALONG THE LANE LINE AS SHOWN ON THE PLANS AND DESCRIBED HEREIN.
- 2) CONTRACTOR SHALL MILL 2' WIDE AND 2" DEPTH OF THE PAVEMENT ALONG THE LANE LINES. THE LANE JOINT SHALL BE CENTERED IN THE 2' WIDE STRIP.
- 3) TRAFFIC CONTROL FOR THIS WORK SHALL CONSISTS OF IMPLEMENTATION OF A TEMPORARY TWO-LANE CLOSURE ALONG I-90 ACCORDING TO THE PROVISIONS IN "KEEPING THE EXPRESSWAYS OPEN TO TRAFFIC" SPECIAL PROVISION. CONTRACTOR SHALL NOT BE ALLOWED TO START ANY WORK UNTIL THE TWO-LANE CLOSURE IS COMPLETELY ESTABLISHED.
- 4) THE TWO-LANE CLOSURE IS COMPRISED OF ONE LANE ON EACH SIDE OF THE LANE LINE THAT IS TO BE MILLED AND RESURFACED.
- 5) CONTRACTOR MUST DIVIDE THIS WORK IN SEGMENTS SUCH THAT THE MILLING, RESURFACING, LANE LINE PAVEMENT MARKINGS ARE COMPLETED FOR EACH SEGMENT BEFORE OPENING THE CLOSED LANES TO TRAFFIC. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THIS REQUIREMENT, THE CONTRACTOR SHALL BE LIABLE TO THE DEPARTMENT FOR EACH OCCURENCE, FOR THE AMOUNT AS LISTED IN THE "FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC (D-1)" SPECIAL PROVISION.
- 6) AFTER COMPLETION OF THIS WORK THE CONTRACTOR SHALL PROCEED WITH THE REMAINDER OF THE PRESTAGE WORK AS SHOWN ON THE SHEETS 120-144.



LEGEND

LIMITS OF MILLING AND RESURFACING ALONG LANE LINE

MOT-PA-J

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

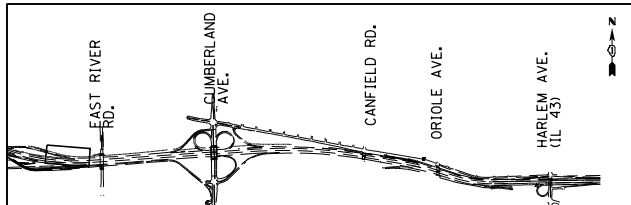
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
PRESTAGE SUB STAGE A
LANE LINE RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 10 OF 22 SHEETS STA. 3109+00 TO STA. 3122+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	119J
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

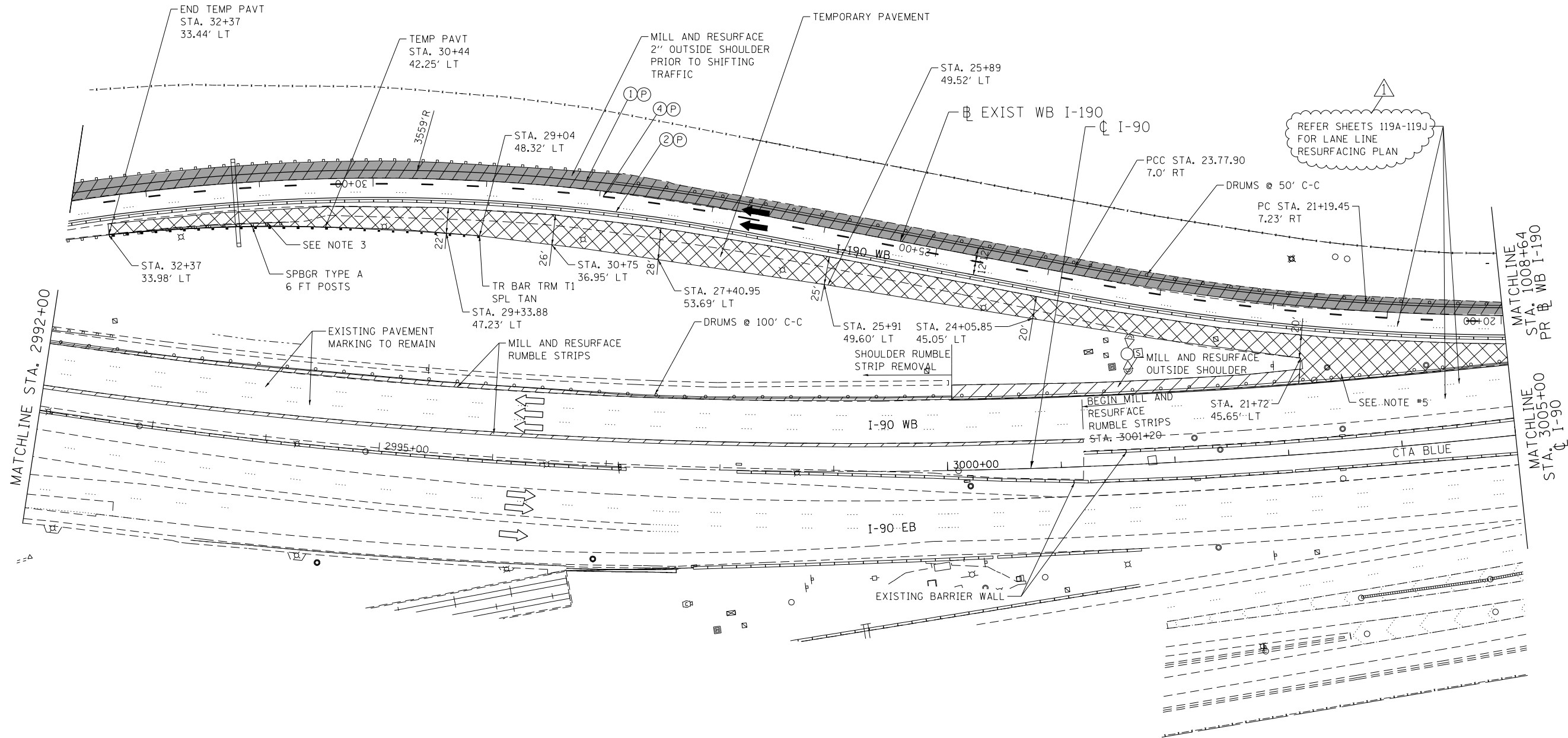
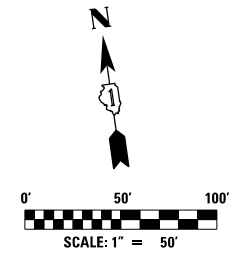
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SHEET ADDED 6/4/18



NOTES:

- 1) TEMPORARY LANE CLOSURES ALONG WB I-90/190 WILL BE ALLOWED ACCORDING TO THE HOURS SPECIFIED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
- 2) MAINTAIN ALL OVERHEAD AND GROUND MOUNT SIGNS AS EXISTING DURING THIS STAGE
- 3) REMOVE CONFLICTING GUARD RAIL ALONG WB I-190 FROM STA. 30+75 LT TO STA. 32+37 LT AND INSTALL STEEL PLATE BEAM GUARD RAIL TYPE A AS SHOWN ON THE PLANS.
- 4) MILL AND RESURFACE WB I-190 OUTSIDE SHOULDER FROM STA. 14+84 TO STA. 34+32 PRIOR TO USING FOR TRAFFIC ALONG WB I-190 AS SHOWN ON THE PLANS.
- 5) CONTRACTOR SHALL CONSTRUCT GORE AREA BY UTILIZING TEMPORARY LANE CLOSURE. CONTRACTOR SHALL EXCAVATE AND BRING THE GRADE UP AT THE END OF WORKING SHIFT, SO THAT DROP-OFF AT THE EDGE OF TRAVEL LANE IS NOT MORE THAN 2"



MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	EXISTING TRAFFIC DIRECTION	ARROW BOARD	MILL & RESURFACE PRIOR TRAFFIC USE	6 PVT MK - LINE 8" WHITE
TEMPORARY PAVEMENT (CURRENT STAGE)	PROPOSED TRAFFIC DIRECTION	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT	1 PVT MK - LINE 4" WHITE	7 PVT MK - LINE 12" WHITE
TEMPORARY PAVEMENT (PREVIOUS STAGES)	BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS	PROPOSED SIGN	2 PVT MK - LINE 4" YELLOW	8 PVT MK - LINE 24" WHITE
TEMPORARY CONCRETE BARRIER	TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT	TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT	3 PVT MK - DBL 4" YELLOW	9 PVT MK - LTRS & SYMB
	FLASHING MONO-DIRECTIONAL LIGHT		4 PVT MK - LINE 5" WHITE	E EXIST PVT MK
			5 PVT MK - LINE 6" WHITE	P PVT MK TAPE T4

USER NAME = #USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
DRAWN MAM	REVISIONS	
CHECKED KA	REVISIONS	
DATE 01/19/2018	REVISIONS	

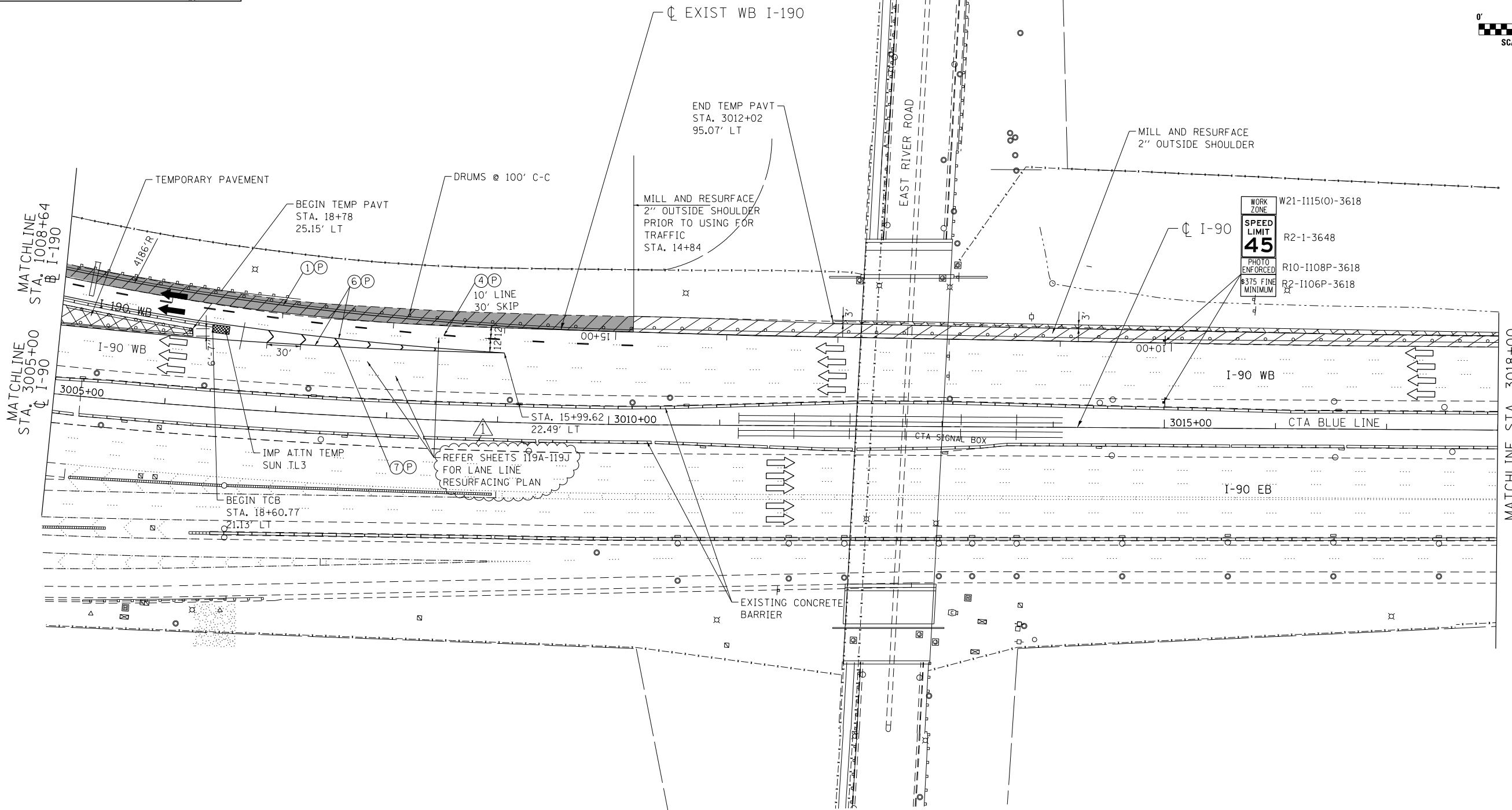
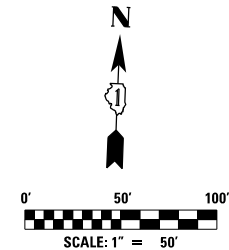
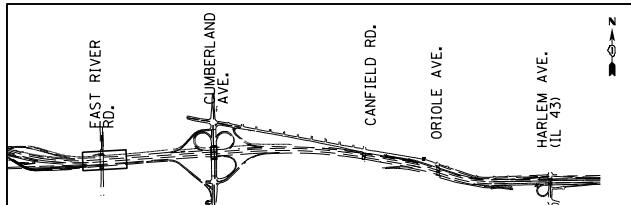
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

SCALE: 1"=50' SHEET NO. 12 OF 22 SHEETS STA. 2992+00 TO STA. 3005+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 121
				CONTRACT NO. 60Y39

FILE NAME = #FILE#



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT				PVT MK - LINE 5" WHITE		EXIST PVT MK
							PVT MK - LINE 6" WHITE		PVT MK TAPE T4

exp U.S. Services Inc. Chicago, IL. BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

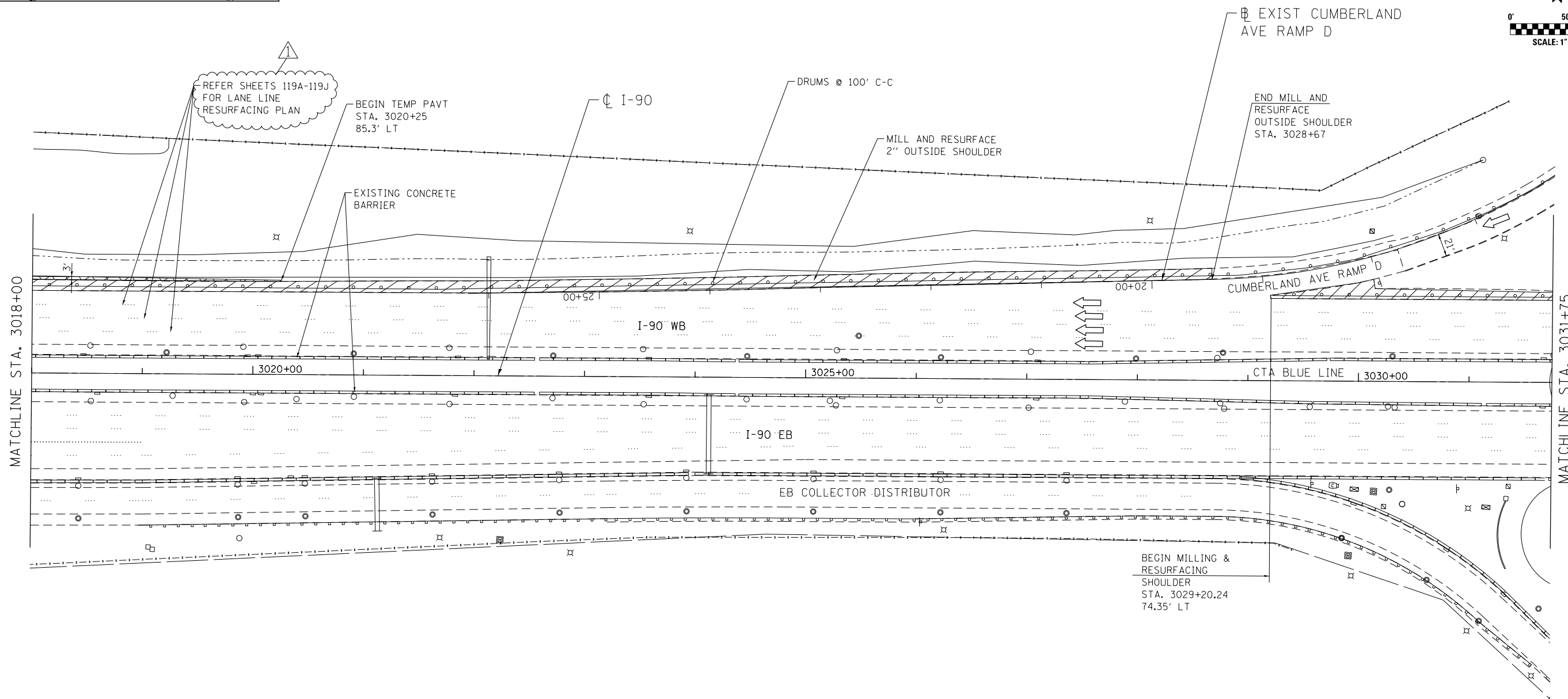
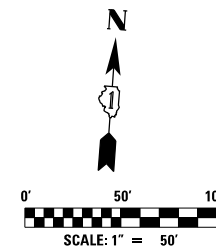
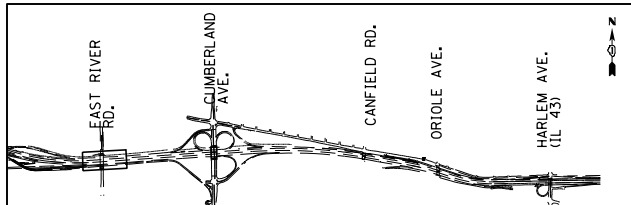
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	122
SCALE: 1"=50'			SHEET NO. 13 OF 22 SHEETS	
STA. 3005+00 TO STA. 3018+00			ILLINOIS FED. AID PROJECT	

MOT-PA-3

FILE NAME = #FILEL#

REV. 6/4/18



MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	EXISTING TRAFFIC DIRECTION	ARROW BOARD	MILL & RESURFACE PRIOR TRAFFIC USE	6 PVT MK - LINE 8" WHITE
TEMPORARY PAVEMENT (CURRENT STAGE)	PROPOSED TRAFFIC DIRECTION	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT	1 PVT MK - LINE 4" WHITE	7 PVT MK - LINE 12" WHITE
TEMPORARY PAVEMENT (PREVIOUS STAGES)	BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS	PROPOSED SIGN	2 PVT MK - LINE 4" YELLOW	8 PVT MK - LINE 24" WHITE
TEMPORARY CONCRETE BARRIER	TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT	TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT	3 PVT MK - DBL 4" YELLOW	9 PVT MK - LTRS & SYMB
	FLASHING MONO-DIRECTIONAL LIGHT		4 PVT MK - LINE 5" WHITE	E EXIST PVT MK
			5 PVT MK - LINE 6" WHITE	P PVT MK TAPE T4

USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

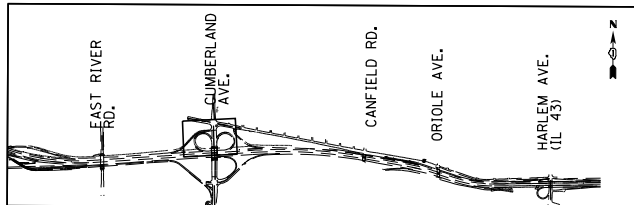
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 123
				CONTRACT NO. 60Y39

SCALE: 1"=50' SHEET NO. 14 OF 22 SHEETS STA. 3018+00 TO STA. 3031+75

FILE NAME = #FILE#

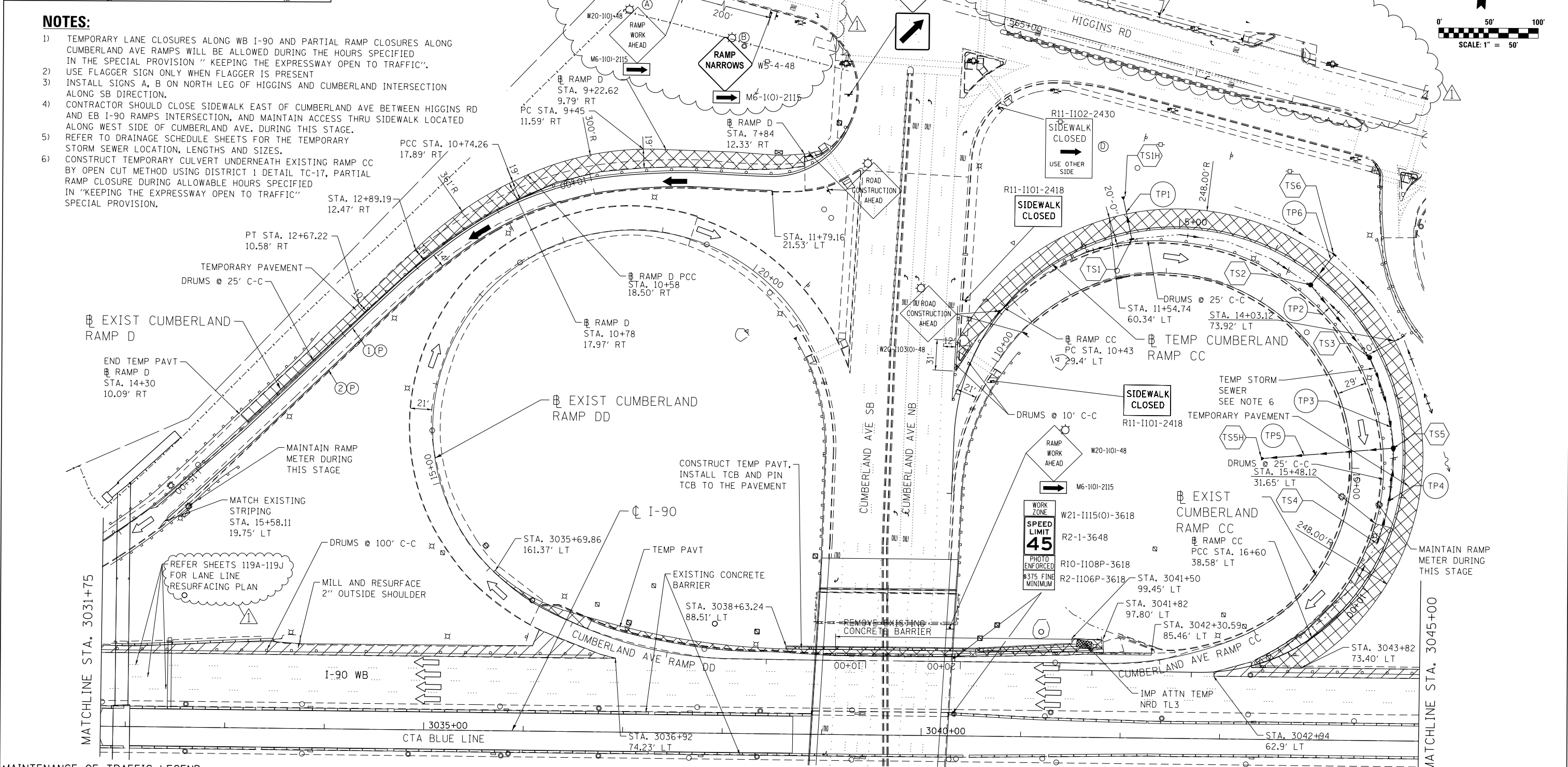
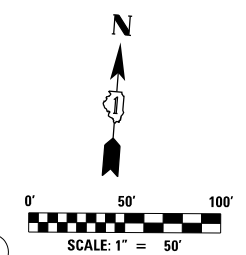
MOT-PA-4

REV. 6/4/18



NOTES:

- 1) TEMPORARY LANE CLOSURES ALONG WB I-90 AND PARTIAL RAMP CLOSURES ALONG CUMBERLAND AVE RAMP D WILL BE ALLOWED DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
- 2) USE FLAGGER SIGN ONLY WHEN FLAGGER IS PRESENT
- 3) INSTALL SIGNS A, B ON NORTH LEG OF HIGGINS AND CUMBERLAND INTERSECTION ALONG SB DIRECTION.
- 4) CONTRACTOR SHOULD CLOSE SIDEWALK EAST OF CUMBERLAND AVE BETWEEN HIGGINS RD AND EB I-90 RAMP INTERSECTION, AND MAINTAIN ACCESS THRU SIDEWALK LOCATED ALONG WEST SIDE OF CUMBERLAND AVE. DURING THIS STAGE.
- 5) REFER TO DRAINAGE SCHEDULE SHEETS FOR THE TEMPORARY STORM SEWER LOCATION, LENGTHS AND SIZES.
- 6) CONSTRUCT TEMPORARY CULVERT UNDERNEATH EXISTING RAMP CC BY OPEN CUT METHOD USING DISTRICT 1 DETAIL TC-17, PARTIAL RAMP CLOSURE DURING ALLOWABLE HOURS SPECIFIED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		6) PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		1) PVT MK - LINE 4" WHITE		7) PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		2) PVT MK - LINE 4" YELLOW		8) PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		3) PVT MK - DBL 4" YELLOW		9) PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		4) PVT MK - LINE 5" WHITE		E) EXIST PVT MK
			PVT MK TAPE T4		PVT MK TAPE T4		5) PVT MK - LINE 6" WHITE		

USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
DRAWN MAM	REVISOR -	
CHECKED KA	REVISOR -	
DATE 01/19/2018	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

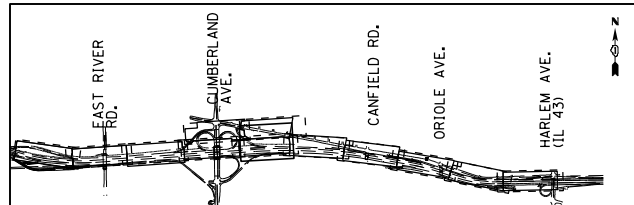
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 124
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#

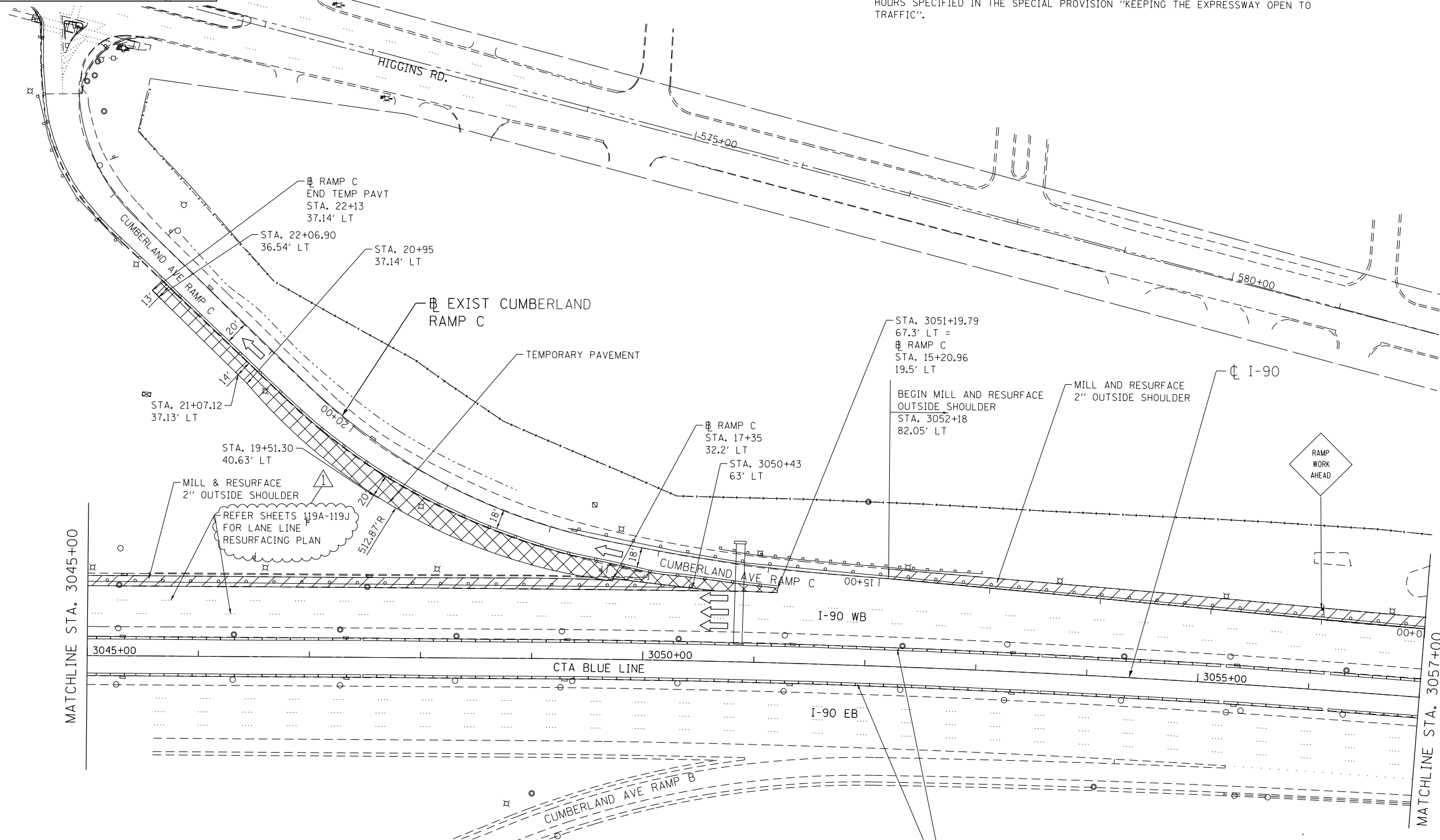
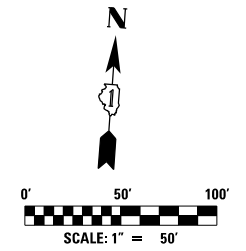
SCALE: 1"=50' SHEET NO. 15 OF 22 SHEETS STA. 3031+75 TO STA. 3045+00

REV. 6/4/18



NOTES:

1) CONSTRUCT TEMPORARY PAVEMENT BY UTILIZING THE TEMPORARY LANE CLOSURES ALONG WB I-90 AND PARTIAL RAMP CLOSURES ALONG CUMBERLAND AVE RAMP C DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".



MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	EXISTING TRAFFIC DIRECTION	ARROW BOARD	MILL & RESURFACE PRIOR TRAFFIC USE	6 PVT MK - LINE 8" WHITE
TEMPORARY PAVEMENT (CURRENT STAGE)	PROPOSED TRAFFIC DIRECTION	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT	1 PVT MK - LINE 4" WHITE	7 PVT MK - LINE 12" WHITE
TEMPORARY PAVEMENT (PREVIOUS STAGES)	BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS	PROPOSED SIGN	2 PVT MK - LINE 4" YELLOW	8 PVT MK - LINE 24" WHITE
TEMPORARY CONCRETE BARRIER	TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT	TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT	3 PVT MK - DBL 4" YELLOW	9 PVT MK - LTRS & SYMB
	FLASHING MONO-DIRECTIONAL LIGHT		4 PVT MK - LINE 5" WHITE	E EXIST PVT MK
			5 PVT MK - LINE 6" WHITE	P PVT MK TAPE T4

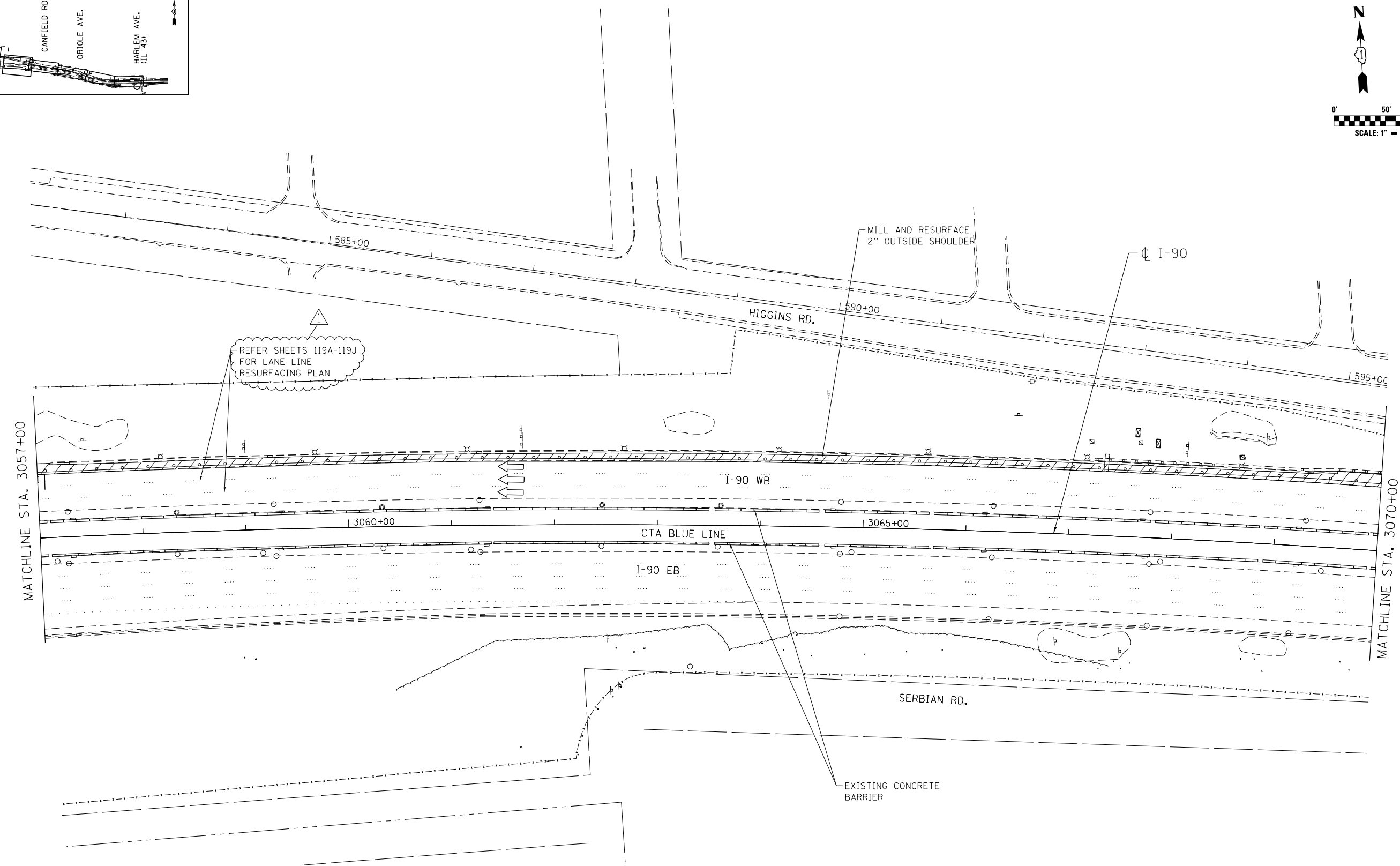
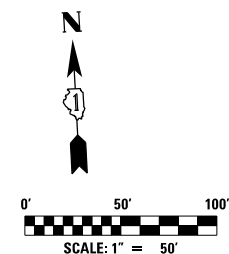
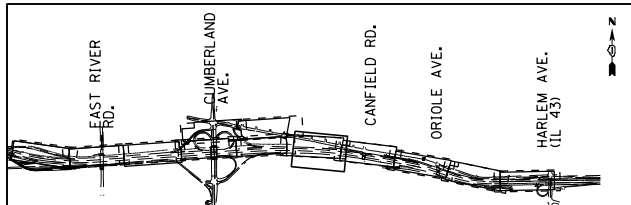
exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 125
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#



MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	EXISTING TRAFFIC DIRECTION	ARROW BOARD	MILL & RESURFACE PRIOR TRAFFIC USE	1 PVT MK - LINE 4" WHITE
TEMPORARY PAVEMENT (CURRENT STAGE)	PROPOSED TRAFFIC DIRECTION	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT	2 PVT MK - LINE 4" YELLOW	3 PVT MK - DBL 4" YELLOW
TEMPORARY PAVEMENT (PREVIOUS STAGES)	BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS	PROPOSED SIGN	4 PVT MK - LINE 5" WHITE	5 PVT MK - LINE 6" WHITE
TEMPORARY CONCRETE BARRIER	TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT	TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT	6 PVT MK - LINE 8" WHITE	7 PVT MK - LINE 12" WHITE
	FLASHING MONO-DIRECTIONAL LIGHT		8 PVT MK - LINE 24" WHITE	9 PVT MK - LTRS & SYMB
			E EXIST PVT MK	P PVT MK TAPE T4

USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

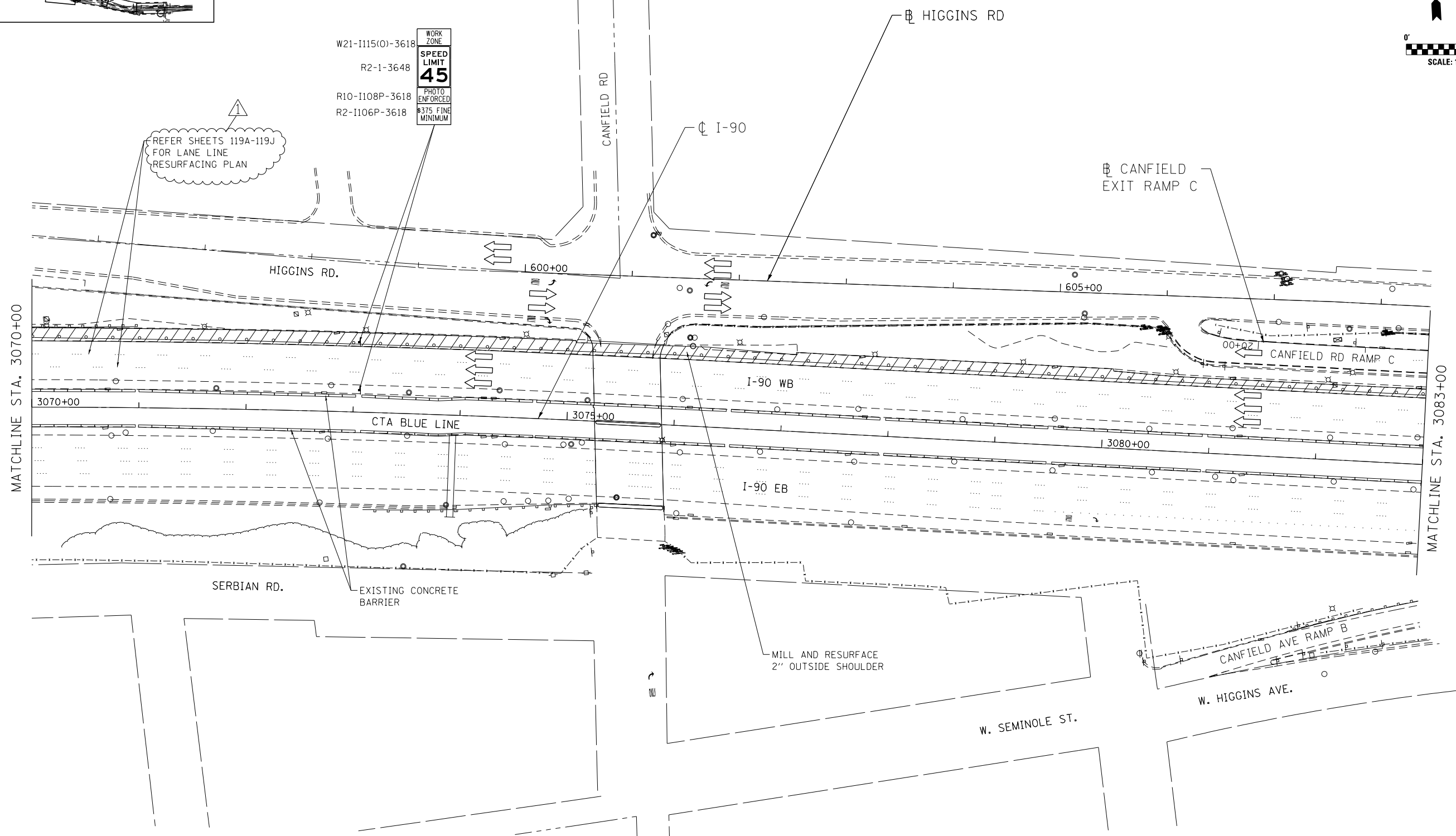
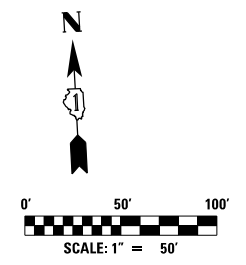
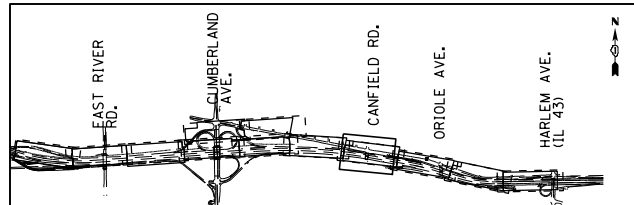
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 126
				CONTRACT NO. 60Y39

FILE NAME = #FILE#

SCALE: 1"=50' SHEET NO. 17 OF 22 SHEETS STA. 3057+00 TO STA. 3070+00

ILLINOIS FED. AID PROJECT
REV. 6/4/18

MOT-PA-7



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		6 PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		1 PVT MK - LINE 4" WHITE		7 PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		2 PVT MK - LINE 4" YELLOW		8 PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		3 PVT MK - DBL 4" YELLOW		9 PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT				4 PVT MK - LINE 5" WHITE		E EXIST PVT MK
							5 PVT MK - LINE 6" WHITE		P PVT MK TAPE T4

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
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	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

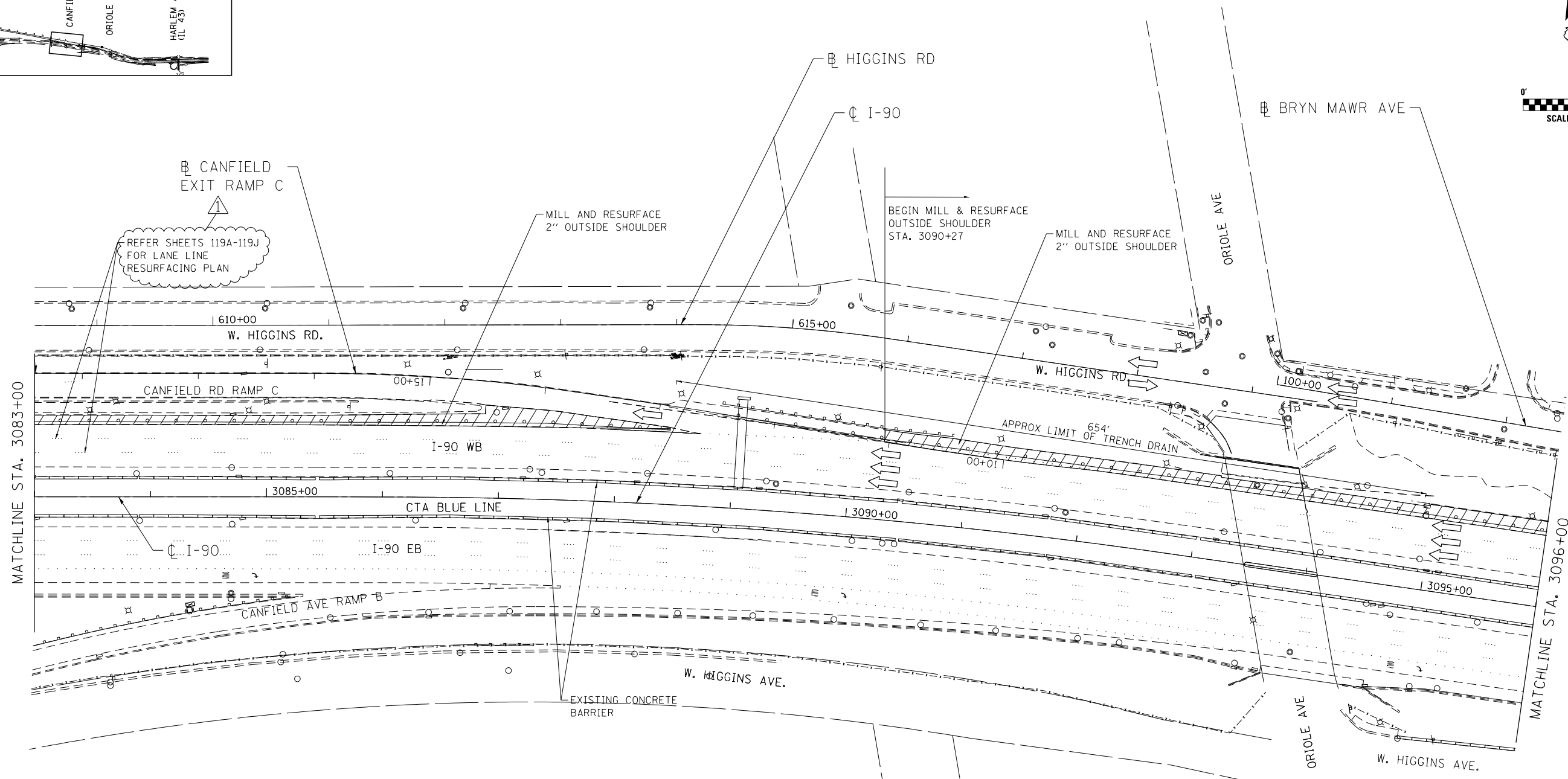
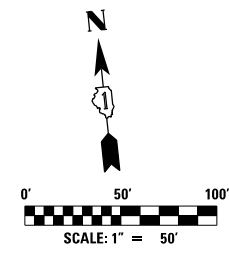
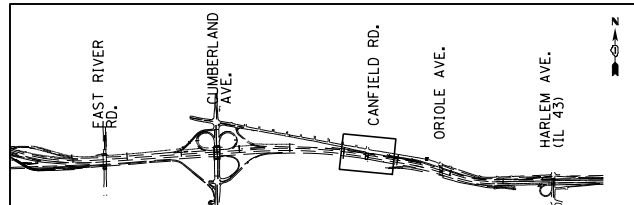
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 127
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#

SCALE: 1"=50' SHEET NO. 18 OF 22 SHEETS STA. 3070+00 TO STA. 3083+00

REV. 6/4/18

MOT-PA-8



NOTES:

1) CONTRACTOR SHALL VERIFY THE DEPTH OF SLOTTED DRAIN IDENTIFIED ON THIS SHEET AND EXCAVATE THE CONCRETE ADJACENT TO THE DRAIN TOP 2" AND RESURFACE UP TO THE DRAIN.

MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	EXISTING TRAFFIC DIRECTION	ARROW BOARD	MILL & RESURFACE PRIOR TRAFFIC USE	PVT MK - LINE 8" WHITE
TEMPORARY PAVEMENT (CURRENT STAGE)	PROPOSED TRAFFIC DIRECTION	VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT	PVT MK - LINE 4" WHITE	PVT MK - LINE 12" WHITE
TEMPORARY PAVEMENT (PREVIOUS STAGES)	BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS	PROPOSED SIGN	PVT MK - LINE 4" YELLOW	PVT MK - LINE 24" WHITE
TEMPORARY CONCRETE BARRIER	TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT	TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT	PVT MK - DBL 4" YELLOW	PVT MK - LTRS & SYMB
	FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - LINE 5" WHITE	EXIST PVT MK
			PVT MK - LINE 6" WHITE	PVT MK TAPE T4

exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

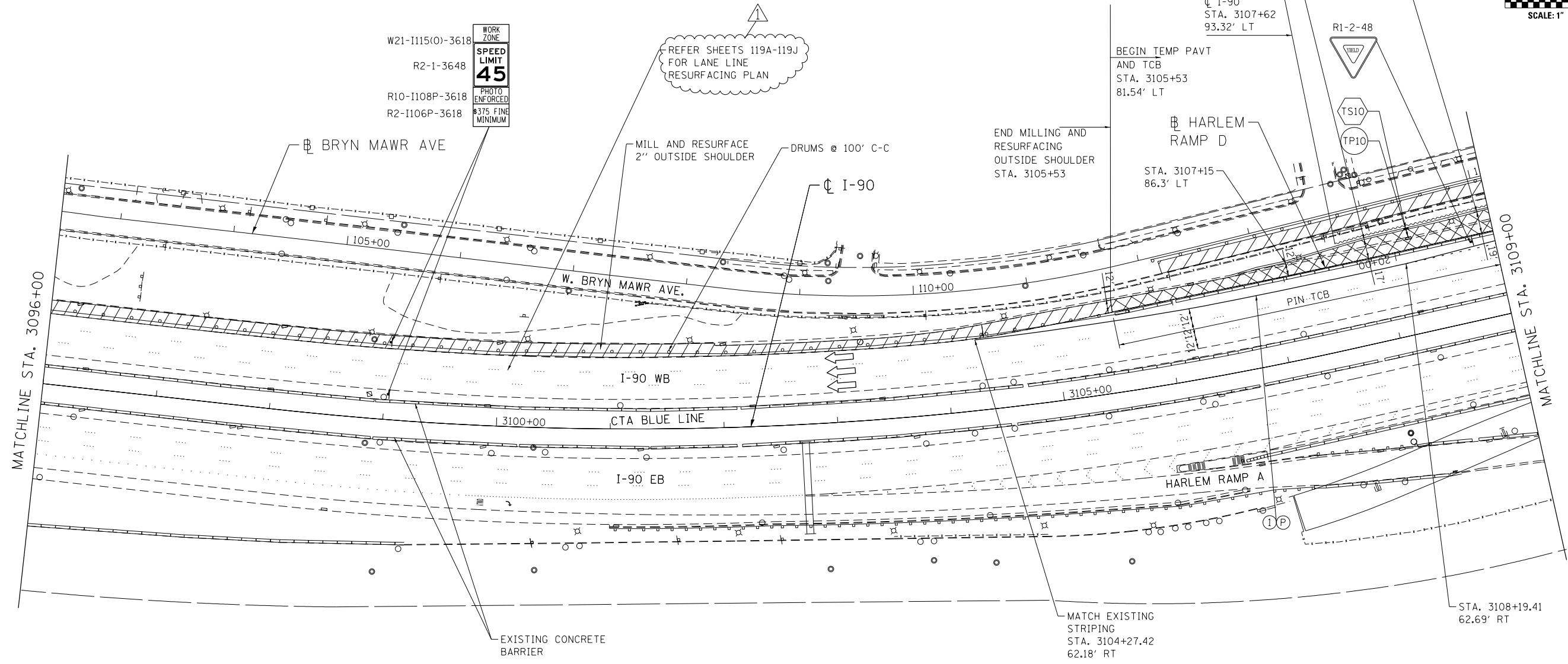
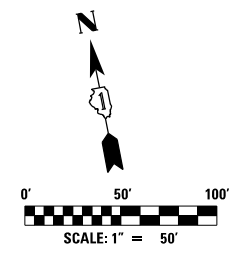
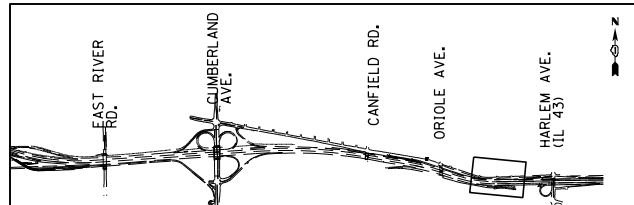
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

SCALE: 1"=50' SHEET NO. 19 OF 22 SHEETS STA. 3083+00 TO STA. 3096+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 128
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

REV. 6/4/18

MOT-PA-9



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - LINE 5" WHITE		PVT MK - LINE 6" WHITE		EXIST PVT MK
					PVT MK TAPE T4				

USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
DRAWN MAM	REVISED -	
CHECKED KA	REVISED -	
DATE 01/19/2018	REVISED -	

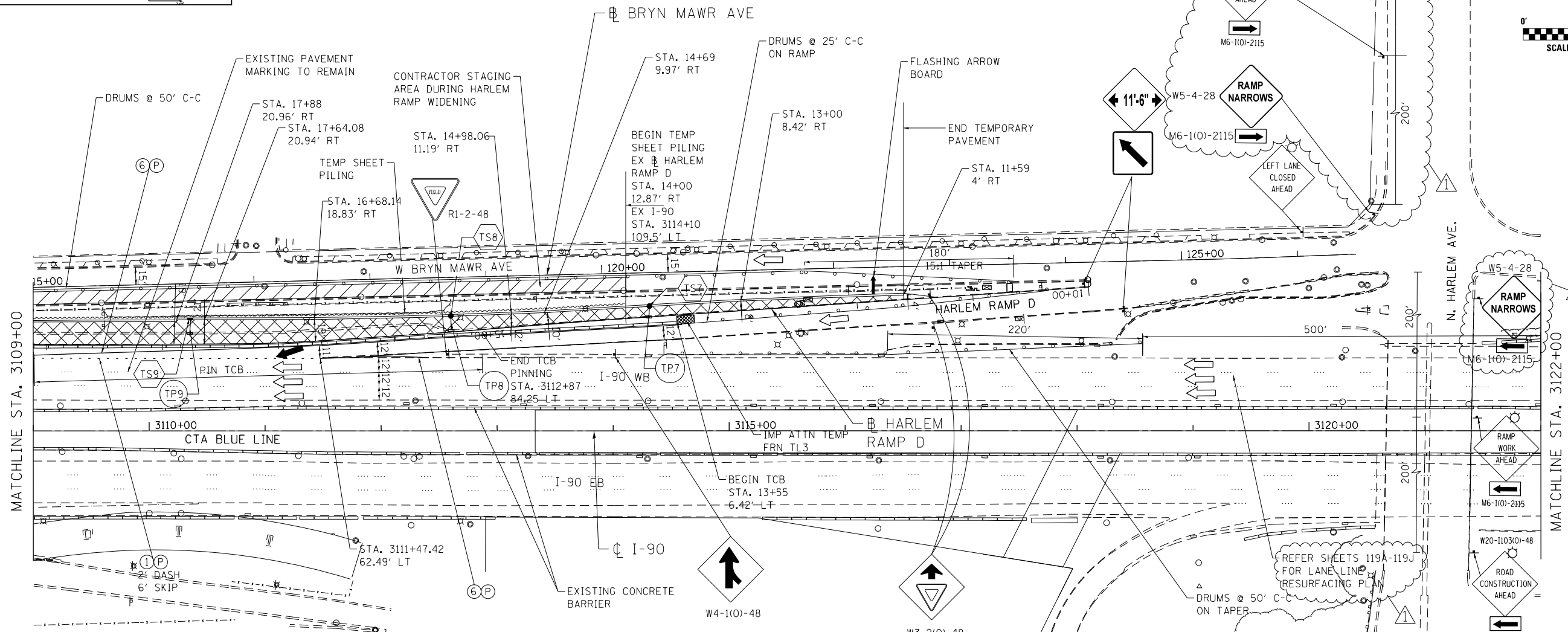
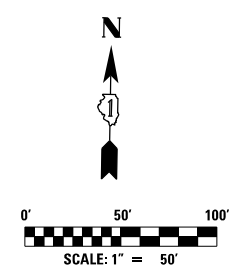
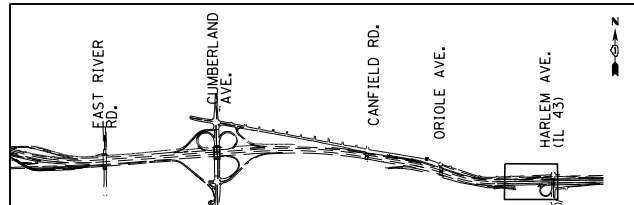
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 129
SCALE: 1"=50'				CONTRACT NO. 60Y39
SHEET NO. 20 OF 22 SHEETS				ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#

REV. 6/4/18



NOTES:

- 1) TEMPORARY LANE CLOSURES ALONG WB I-90 AND PARTIAL RAMP CLOSURES ALONG HARLEM AVE RAMP D WILL BE ALLOWED DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
- 2) INSTALL TEMPORARY SHEET PILING ALONG HARLEM AVE RAMP D AS SHOWN ON THE PLANS PRIOR TO CONSTRUCTING TEMP PAVEMENT.
- 3) PIN TEMPORARY CONCRETE BARRIER TO PAVEMENT FROM STA. 3105+53 TO STA. 3111+53
- 4) REFER TO SHEET 560 FOR DETAILS ON TEMPORARY SHEET PILING ALONG HARLEM RAMP.

MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT				PVT MK - LINE 5" WHITE		EXIST PVT MK
							PVT MK - LINE 6" WHITE		PVT MK TAPE T4

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

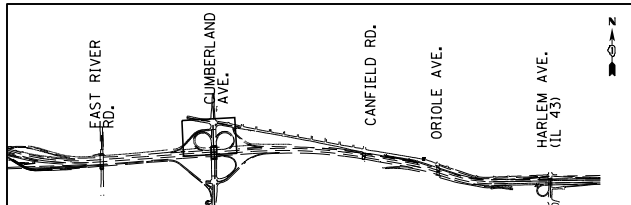
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE A**

SCALE: 1"=50' SHEET NO. 21 OF 22 SHEETS STA. 3109+00 TO STA. 3122+00

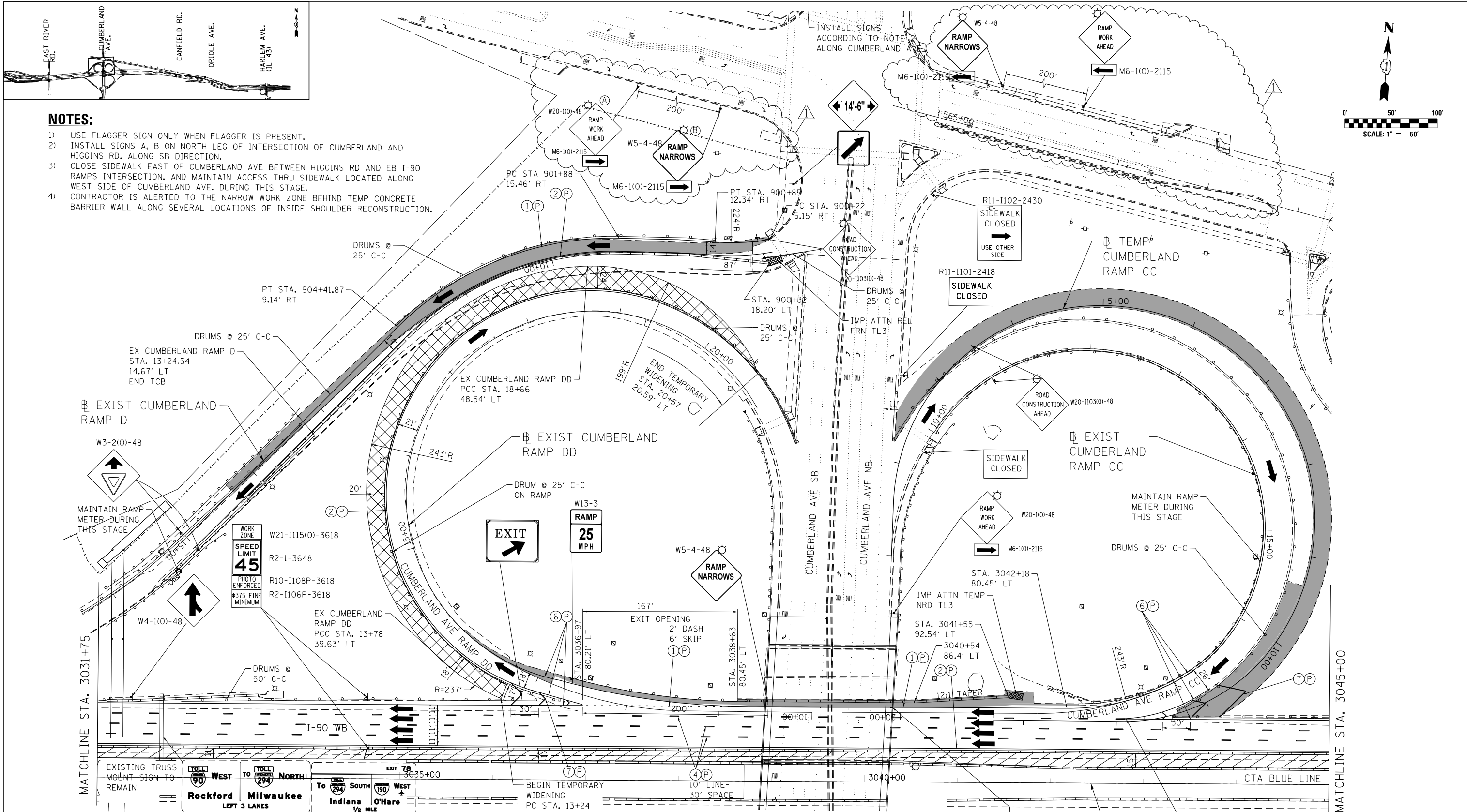
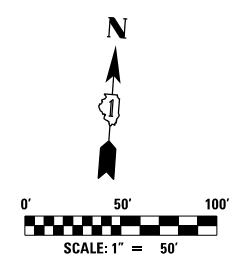
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 130
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

MOT-PA-11



NOTES:

- 1) USE FLAGGER SIGN ONLY WHEN FLAGGER IS PRESENT.
- 2) INSTALL SIGNS A, B ON NORTH LEG OF INTERSECTION OF CUMBERLAND AND HIGGINS RD. ALONG SB DIRECTION.
- 3) CLOSE SIDEWALK EAST OF CUMBERLAND AVE BETWEEN HIGGINS RD AND EB I-90 RAMP INTERSECTION, AND MAINTAIN ACCESS THRU SIDEWALK LOCATED ALONG WEST SIDE OF CUMBERLAND AVE. DURING THIS STAGE.
- 4) CONTRACTOR IS ALERTED TO THE NARROW WORK ZONE BEHIND TEMP CONCRETE BARRIER WALL ALONG SEVERAL LOCATIONS OF INSIDE SHOULDER RECONSTRUCTION.



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK - LINE 5" WHITE		EXIST PVT MK
			FLASHING MONO-DIRECTIONAL LIGHT		PVT MK TAPE T4		PVT MK - LINE 6" WHITE		PVT MK TAPE T4

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

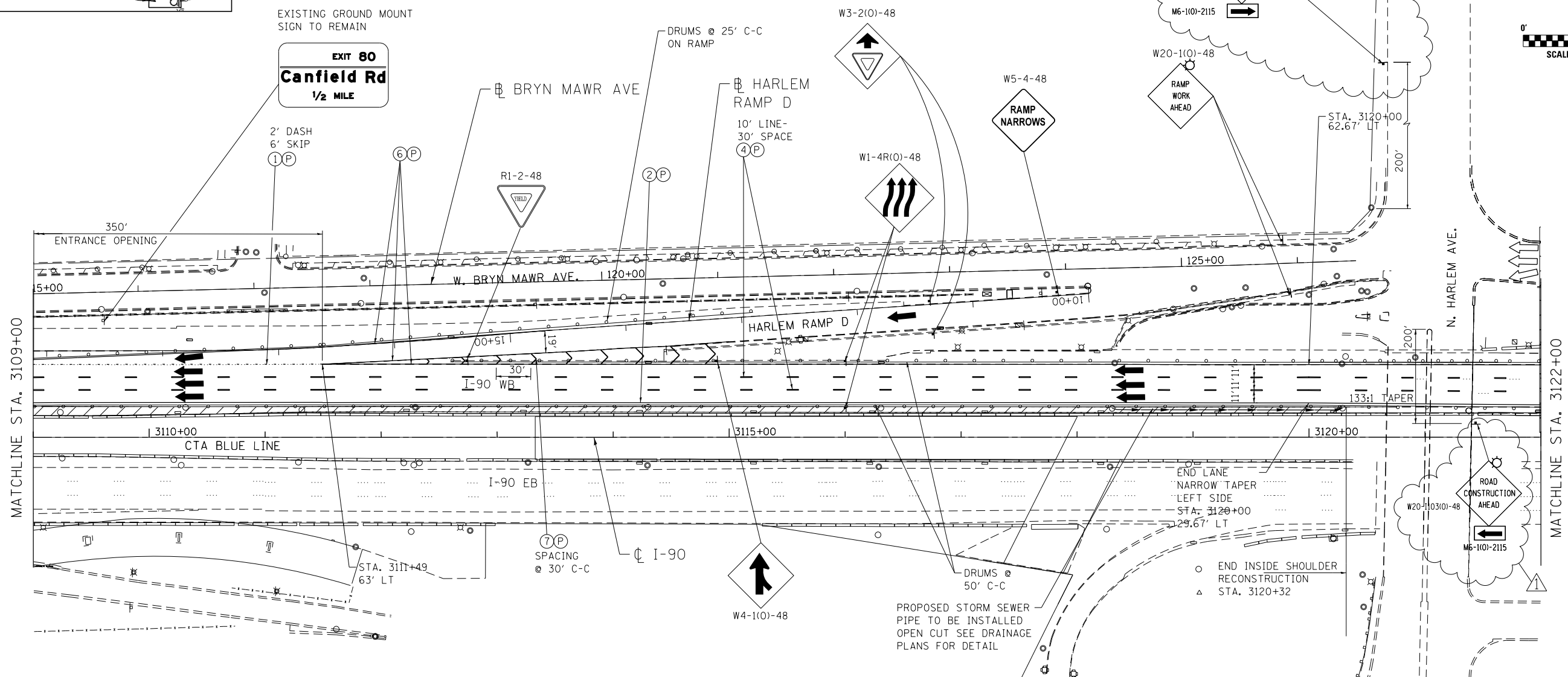
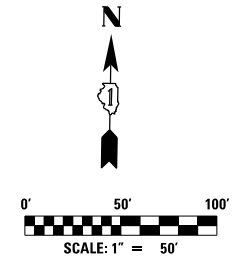
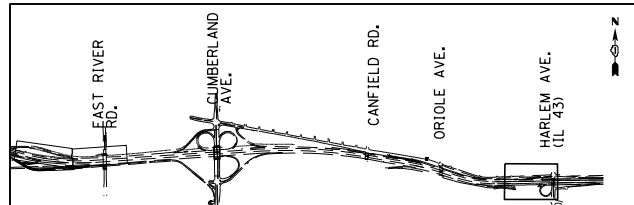
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE B**

SCALE: 1"=50' SHEET NO. 5 OF 13 SHEETS STA. 3031+75 TO STA. 3045+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 136
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#



- NOTES:**
- 1) INSTALL PROPOSED STORM SEWER PIPE IN INSIDE SHOULDER AND CONSTRUCT WB INSIDE SHOULDER BY UTILIZING THE TEMPORARY NIGHTLY LANE CLOSURE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARD 701400,701401.
 - 2) TEMPORARY LANE CLOSURES ALONG WB I-90 WILL BE ALLOWED DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
 - 3) DROP OFFS ADJACENT TO OPEN TRAVEL LANE SHALL BE ACCORDING TO "MAINLINE AND RAMP DROP OFF CRITERIA" SPECIFIED ON SHEET MOT-GEN-1.

MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK - LINE 5" WHITE		PVT MK TAPE T4
			PVT MK - LINE 6" WHITE						

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

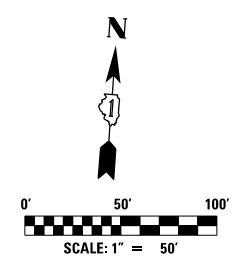
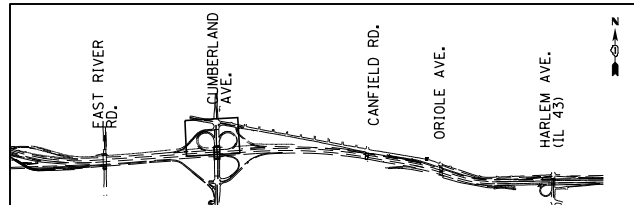
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
PRESTAGE SUB STAGE B**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 142
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#

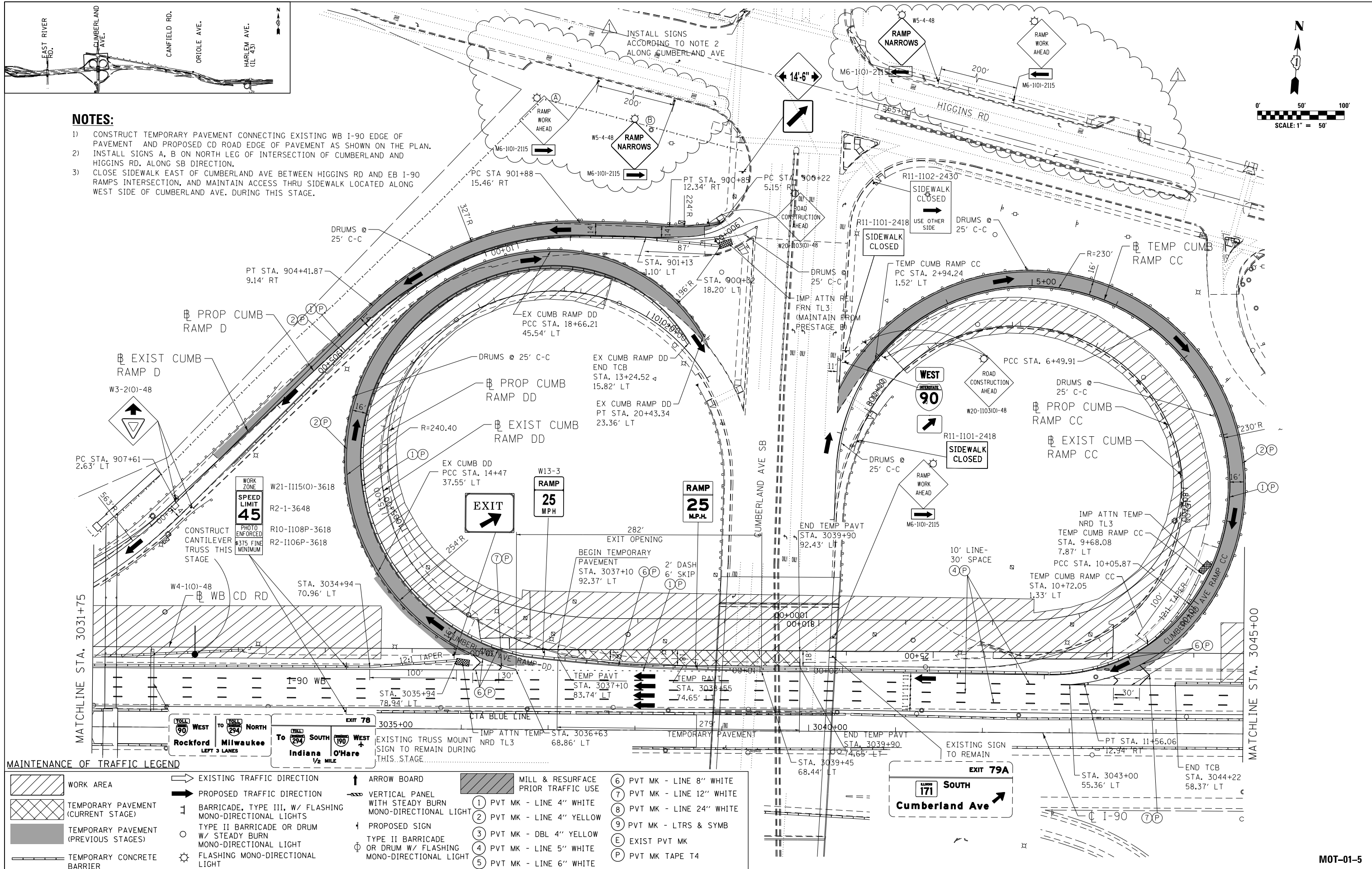
MOT-PB-11

REV. 6/4/18



NOTES:

- 1) CONSTRUCT TEMPORARY PAVEMENT CONNECTING EXISTING WB I-90 EDGE OF PAVEMENT AND PROPOSED CD ROAD EDGE OF PAVEMENT AS SHOWN ON THE PLAN.
- 2) INSTALL SIGNS A, B ON NORTH LEG OF INTERSECTION OF CUMBERLAND AND HIGGINS RD. ALONG SB DIRECTION.
- 3) CLOSE SIDEWALK EAST OF CUMBERLAND AVE BETWEEN HIGGINS RD AND EB I-90 RAMPS INTERSECTION, AND MAINTAIN ACCESS THRU SIDEWALK LOCATED ALONG WEST SIDE OF CUMBERLAND AVE. DURING THIS STAGE.



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		6 PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		1 PVT MK - LINE 4" WHITE		7 PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		2 PVT MK - LINE 4" YELLOW		8 PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		3 PVT MK - DBL 4" YELLOW		9 PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		4 PVT MK - LINE 5" WHITE		E EXIST PVT MK
			PVT MK TAPE T4		PVT MK TAPE T4		5 PVT MK - LINE 6" WHITE		

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

USER NAME = *USER*	DESIGNED MAM	REVISED - 06/01/2018 - MAM
PLOT SCALE = *SCALE*	DRAWN MAM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

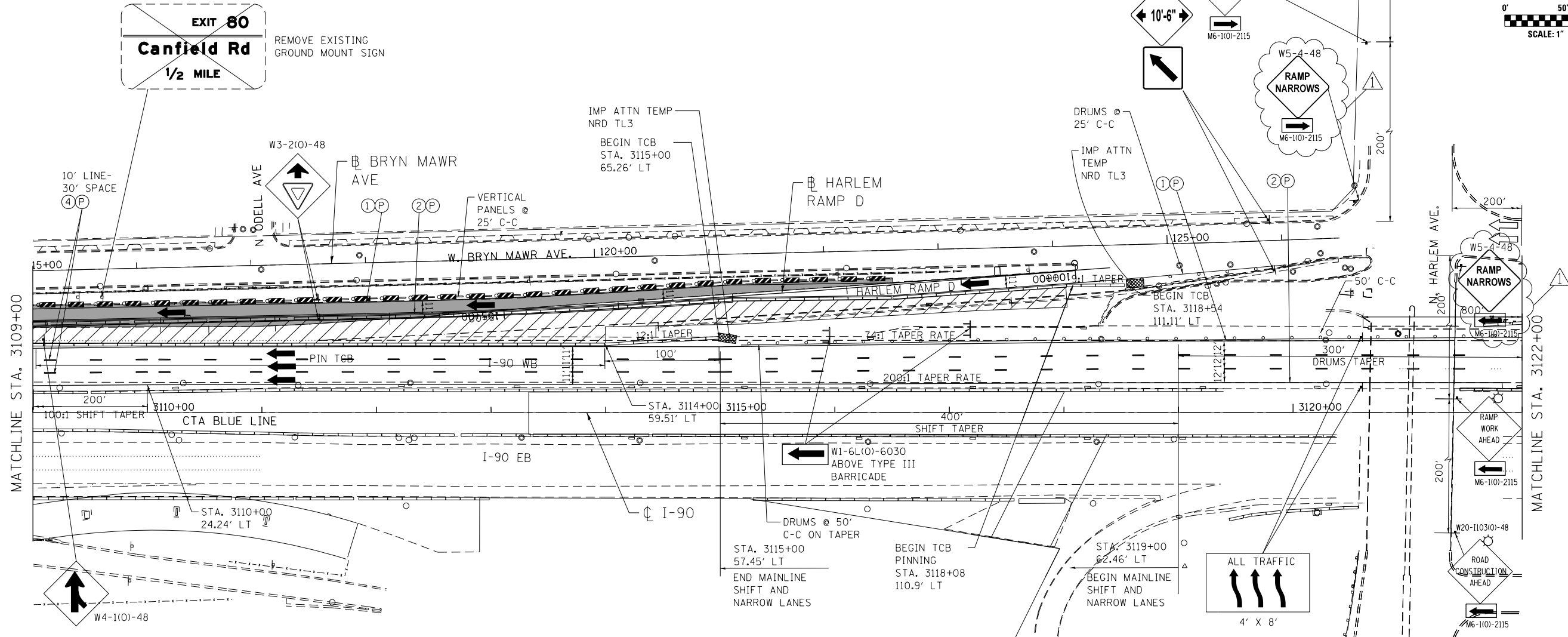
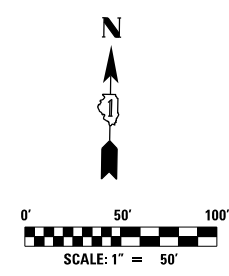
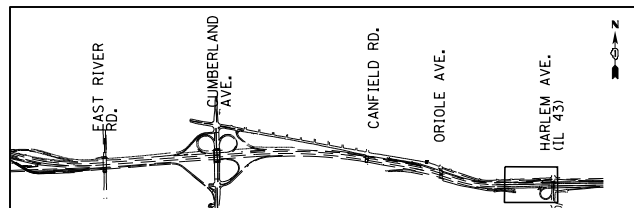
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE 1**

SCALE: 1"=50' SHEET NO. 5 OF 13 SHEETS STA. 3031+75 TO STA. 3045+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 149
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

MOT-01-5

REV. 6/4/18



- NOTES:**
- 1) TEMPORARY INFORMATION SIGNS ALONG WB I-90 SHALL BE INSTALLED PRIOR TO REMOVING ANY EXISTING TRUSS MOUNTED SIGNS AND PRIOR TO IMPLEMENTING STAGE 1 TRAFFIC CONFIGURATION.
 - 2) TEMPORARY CONCRETE BARRIER INSTALLED ALONG HARLEM RAMP SHALL BE PINNED TO THE PAVEMENT ACCORDING TO APPLICABLE HIGHWAY STANDARD AND THE SPECIAL PROVISION "TEMPORARY CONCRETE BARRIER (BDE)" AND AS SHOWN ON THE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET.

MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK - LINE 5" WHITE		EXIST PVT MK
					PVT MK TAPE T4		PVT MK - LINE 6" WHITE		

exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT, ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

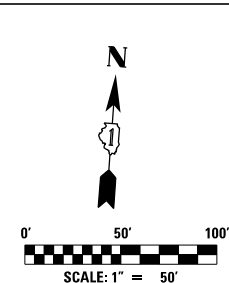
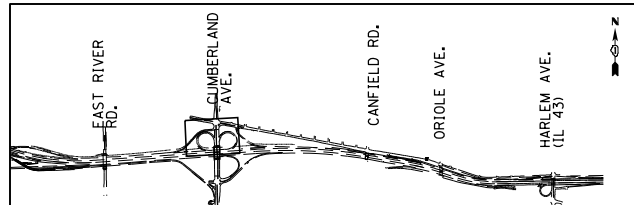
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE 1**

SCALE: 1"=50' SHEET NO. 11 OF 13 SHEETS STA. 3109+00 TO STA. 3122+00

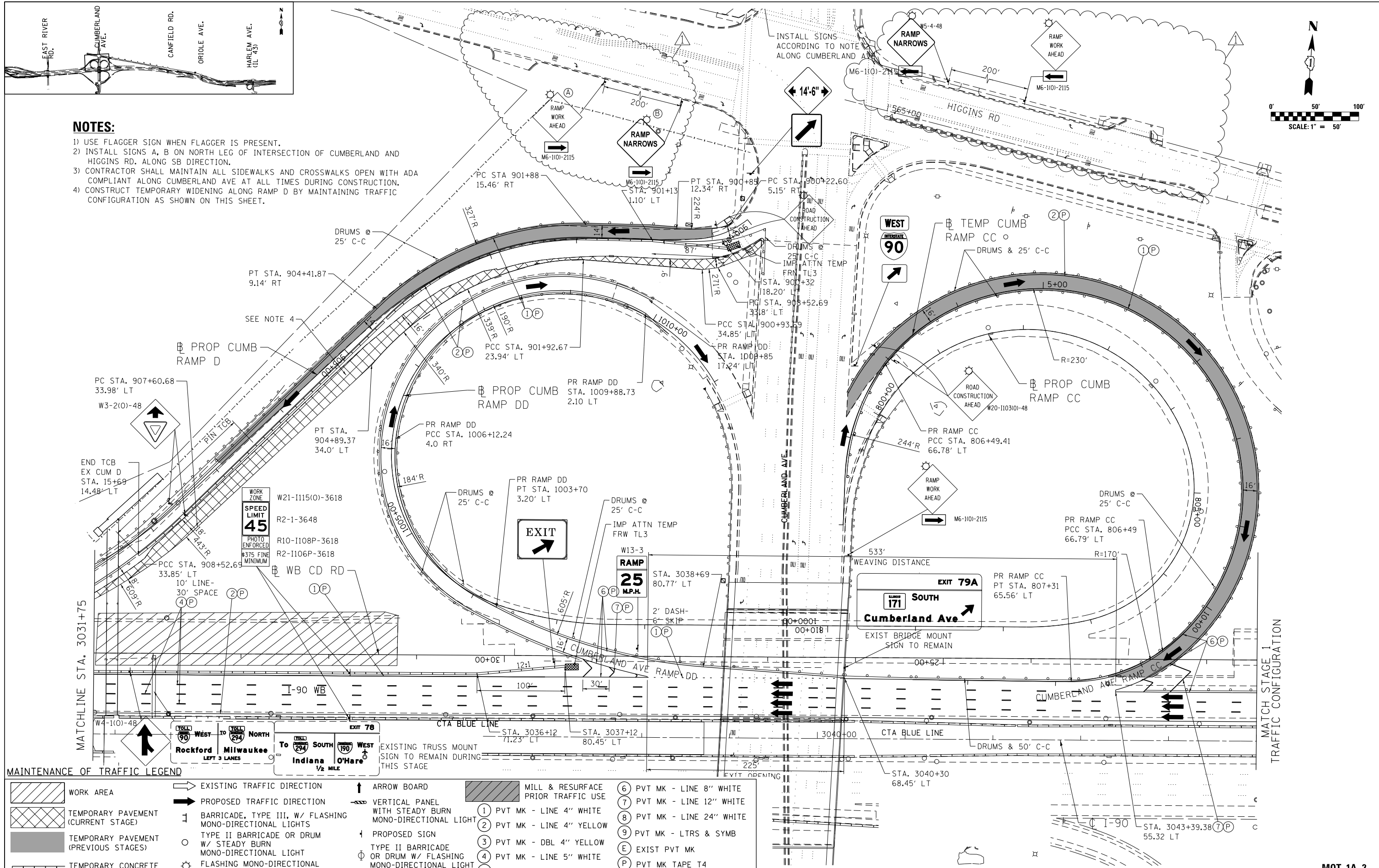
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 155
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

FILE NAME = #FILE#



NOTES:

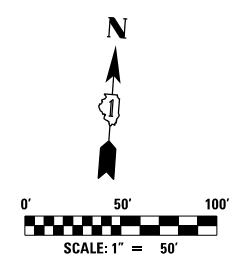
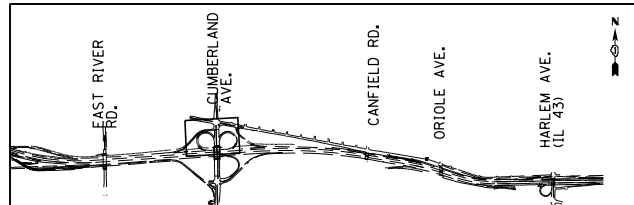
- 1) USE FLAGGER SIGN WHEN FLAGGER IS PRESENT.
- 2) INSTALL SIGNS A, B ON NORTH LEG OF INTERSECTION OF CUMBERLAND AND HIGGINS RD. ALONG SB DIRECTION.
- 3) CONTRACTOR SHALL MAINTAIN ALL SIDEWALKS AND CROSSWALKS OPEN WITH ADA COMPLIANT ALONG CUMBERLAND AVE AT ALL TIMES DURING CONSTRUCTION.
- 4) CONSTRUCT TEMPORARY WIDENING ALONG RAMP D BY MAINTAINING TRAFFIC CONFIGURATION AS SHOWN ON THIS SHEET.



MAINTENANCE OF TRAFFIC LEGEND

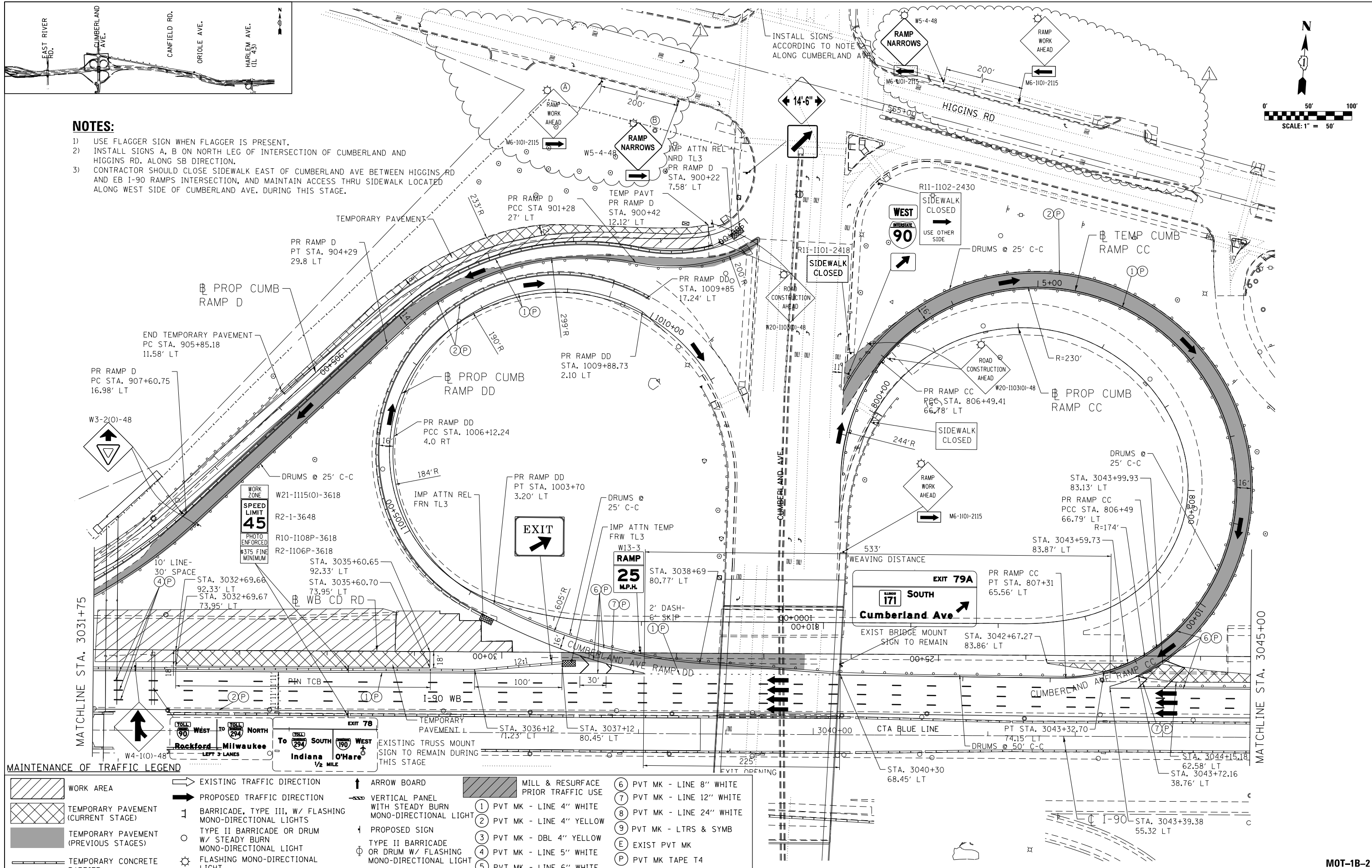
	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 4" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" YELLOW		PVT MK - DBL 4" YELLOW
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 5" WHITE		PVT MK - LINE 6" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK TAPE T4
	FLASHING MONO-DIRECTIONAL LIGHT								

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE SUGGESTED STAGING AND TRAFFIC CONTROL STAGE 1 SUB STAGE A	F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 159
	PLOT SCALE = #SCALE#	CHECKED KA	REVISED -			SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. 3031+75 TO STA. 3045+00	ILLINOIS FED. AID PROJECT	
FILE NAME = #FILE#	PLOT DATE = 5-31-2018	DATE 01/19/2018	REVISED -							REV. 6/4/18

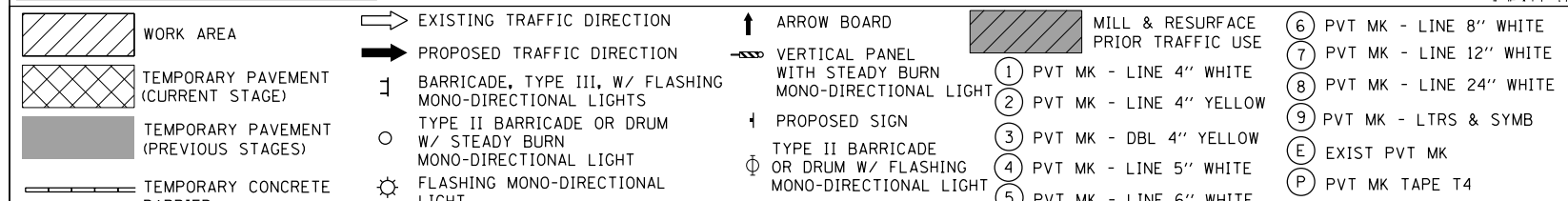


NOTES:

- 1) USE FLAGGER SIGN WHEN FLAGGER IS PRESENT.
- 2) INSTALL SIGNS A, B ON NORTH LEG OF INTERSECTION OF CUMBERLAND AND HIGGINS RD. ALONG SB DIRECTION.
- 3) CONTRACTOR SHOULD CLOSE SIDEWALK EAST OF CUMBERLAND AVE BETWEEN HIGGINS RD AND EB I-90 RAMPS INTERSECTION, AND MAINTAIN ACCESS THRU SIDEWALK LOCATED ALONG WEST SIDE OF CUMBERLAND AVE. DURING THIS STAGE.



MAINTENANCE OF TRAFFIC LEGEND



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

USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

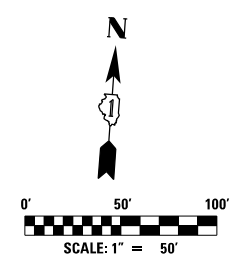
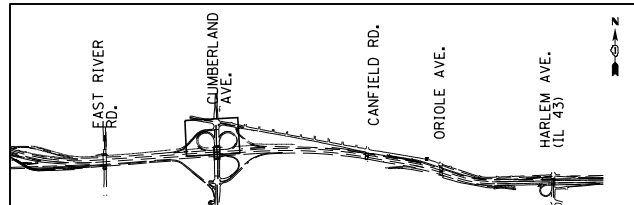
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE 1 SUB STAGE B**

SCALE: 1"=50' SHEET NO. 2 OF 5 SHEETS STA. 3031+75 TO STA. 3045+00

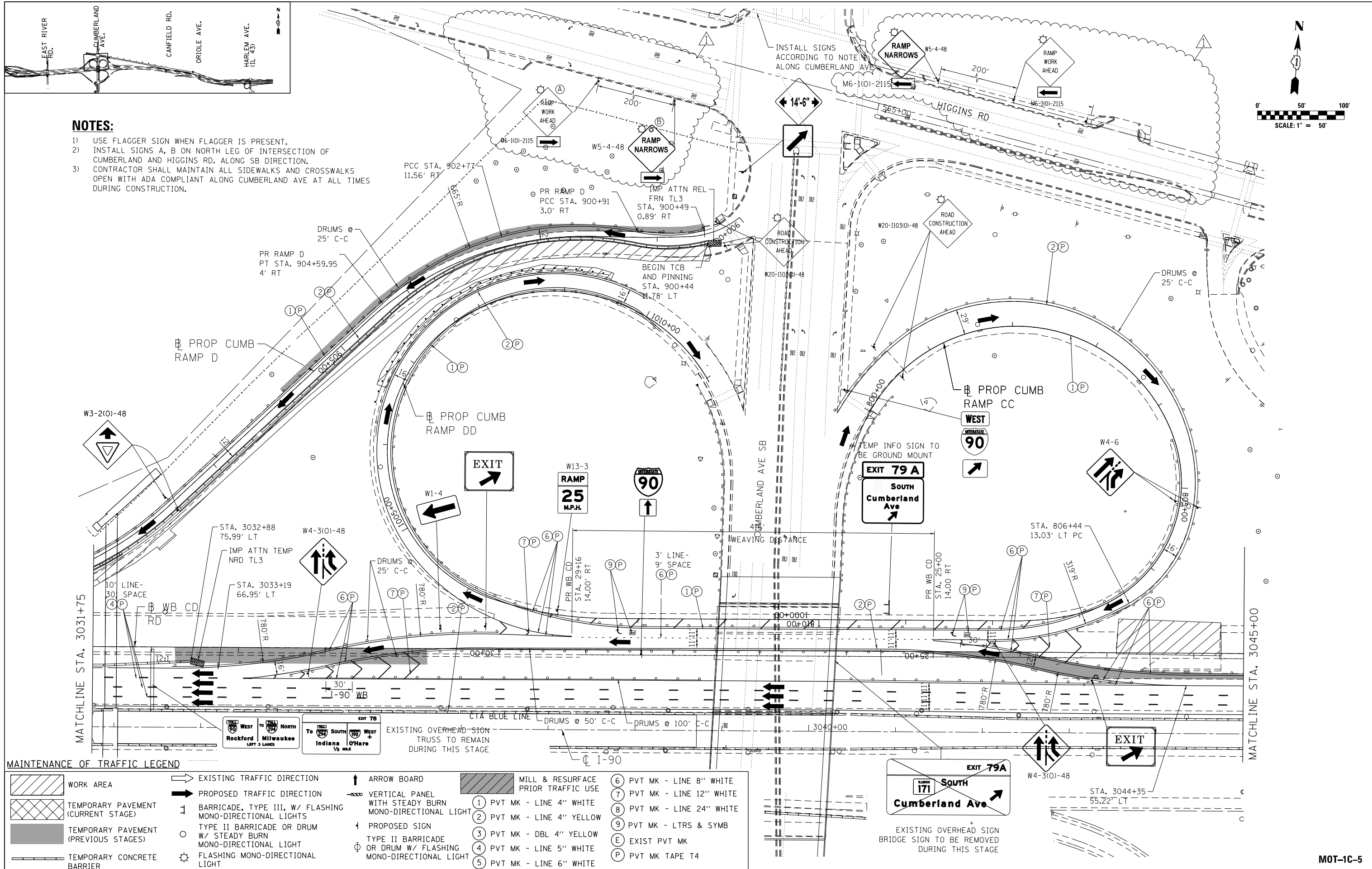
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 161
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

MOT-1B-2



NOTES:

- 1) USE FLAGGER SIGN WHEN FLAGGER IS PRESENT.
- 2) INSTALL SIGNS A, B ON NORTH LEG OF INTERSECTION OF CUMBERLAND AND HIGGINS RD. ALONG SB DIRECTION.
- 3) CONTRACTOR SHALL MAINTAIN ALL SIDEWALKS AND CROSSWALKS OPEN WITH ADA COMPLIANT ALONG CUMBERLAND AVE AT ALL TIMES DURING CONSTRUCTION.



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK - LINE 5" WHITE		EXIST PVT MK
			FLASHING MONO-DIRECTIONAL LIGHT		PVT MK TAPE T4		PVT MK - LINE 6" WHITE		PVT MK TAPE T4

USER NAME : #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
PLOT SCALE : #SCALE#	DRAWN MAM	REVISED -
PLOT DATE : 5-31-2018	CHECKED KA	REVISED -
	DATE 01/19/2018	REVISED -

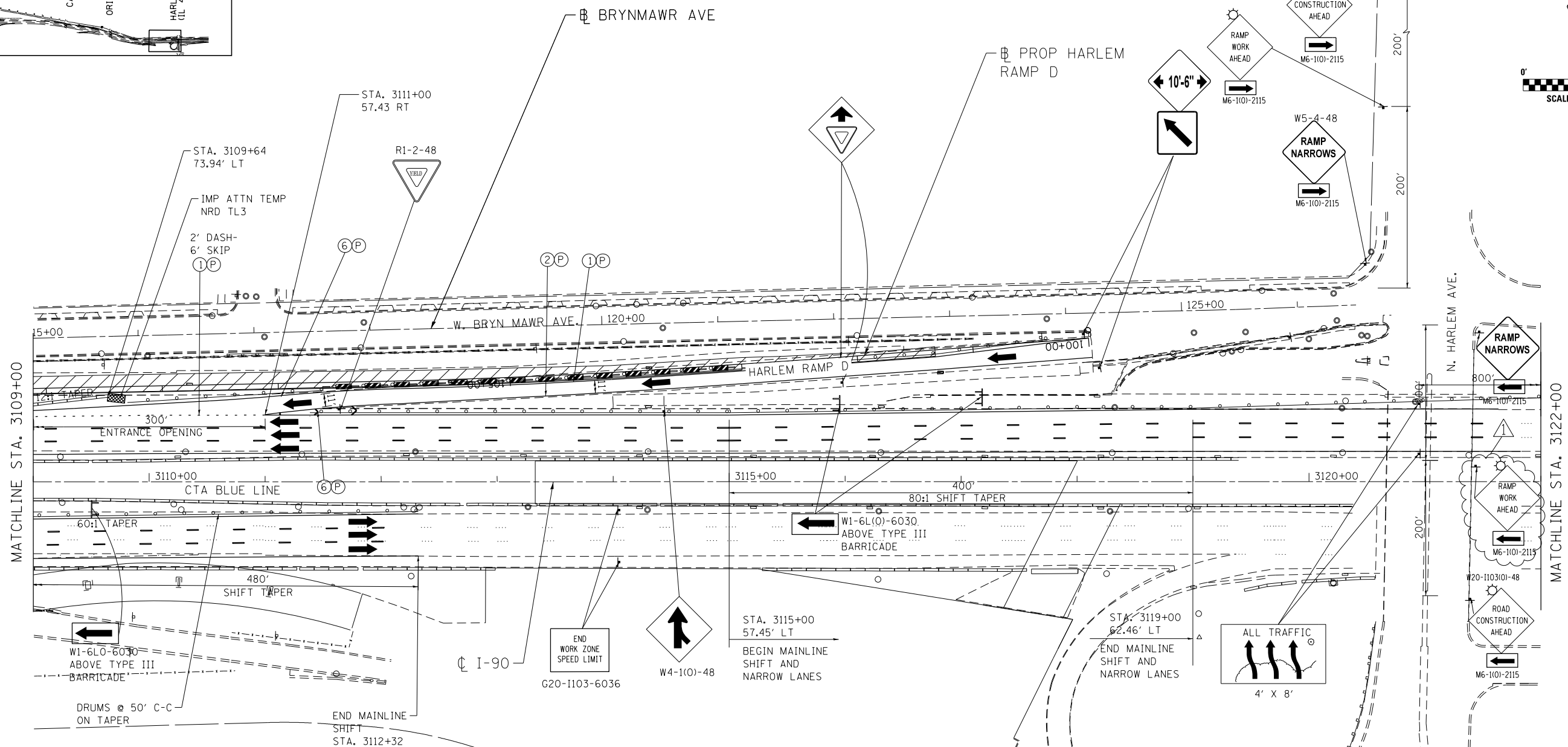
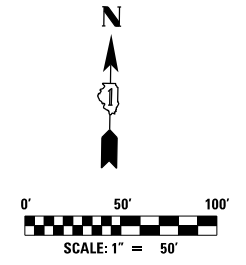
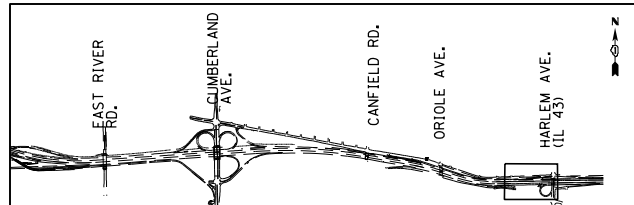
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
STAGE 1 SUB STAGE C**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 169
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#

REV. 6/4/18



NOTES:
 1) CONTINUE STAGING AND TRAFFIC CONTROL ALONG WB I-90 FROM STAGE 1 AND SWITCH HARLEM AVE RAMP TRAFFIC ON NEW PAVEMENT AS SHOWN ON THE PLANS.

MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		EXISTING TRAFFIC DIRECTION		ARROW BOARD		MILL & RESURFACE PRIOR TRAFFIC USE		PVT MK - LINE 8" WHITE
	TEMPORARY PAVEMENT (CURRENT STAGE)		PROPOSED TRAFFIC DIRECTION		VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT		PVT MK - LINE 4" WHITE		PVT MK - LINE 12" WHITE
	TEMPORARY PAVEMENT (PREVIOUS STAGES)		BARRICADE, TYPE III, W/ FLASHING MONO-DIRECTIONAL LIGHTS		PROPOSED SIGN		PVT MK - LINE 4" YELLOW		PVT MK - LINE 24" WHITE
	TEMPORARY CONCRETE BARRIER		TYPE II BARRICADE OR DRUM W/ STEADY BURN MONO-DIRECTIONAL LIGHT		TYPE II BARRICADE OR DRUM W/ FLASHING MONO-DIRECTIONAL LIGHT		PVT MK - DBL 4" YELLOW		PVT MK - LTRS & SYMB
			FLASHING MONO-DIRECTIONAL LIGHT		EXIST PVT MK		PVT MK - LINE 5" WHITE		PVT MK TAPE T4
					PVT MK - LINE 6" WHITE				

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = #USER#	DESIGNED MAM	REVISED - 06/01/2018 - MAM
	PLOT SCALE = #SCALE#	DRAWN MAM	REVISED -
	PLOT DATE = 5-31-2018	CHECKED KA	REVISED -
		DATE 01/19/2018	REVISED -

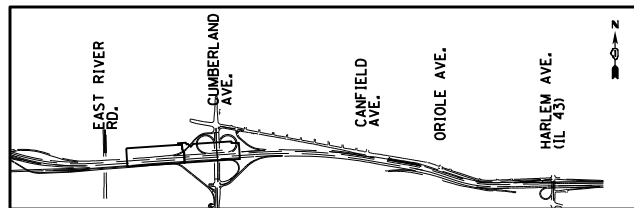
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 SUGGESTED STAGING AND TRAFFIC CONTROL
 STAGE 1 SUB STAGE C**

SCALE: 1"=50' SHEET NO. 11 OF 12 SHEETS STA. 3109+00 TO STA. 3122+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 175
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

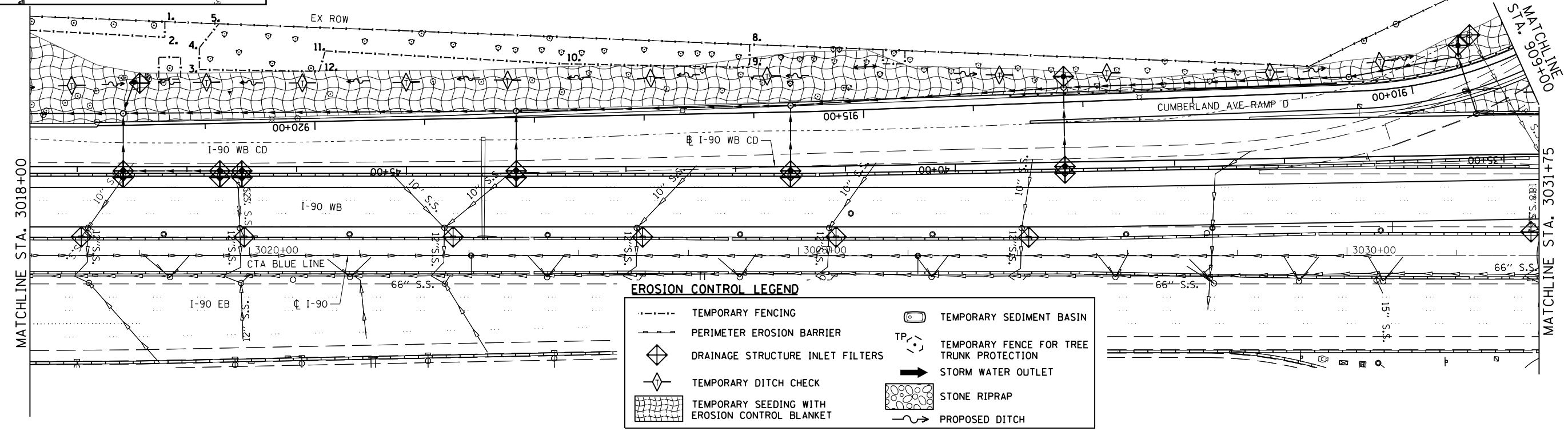
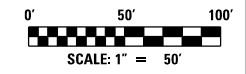
MOT-1C-11



TEMPORARY FENCE LOCATIONS

I-90 WB CD

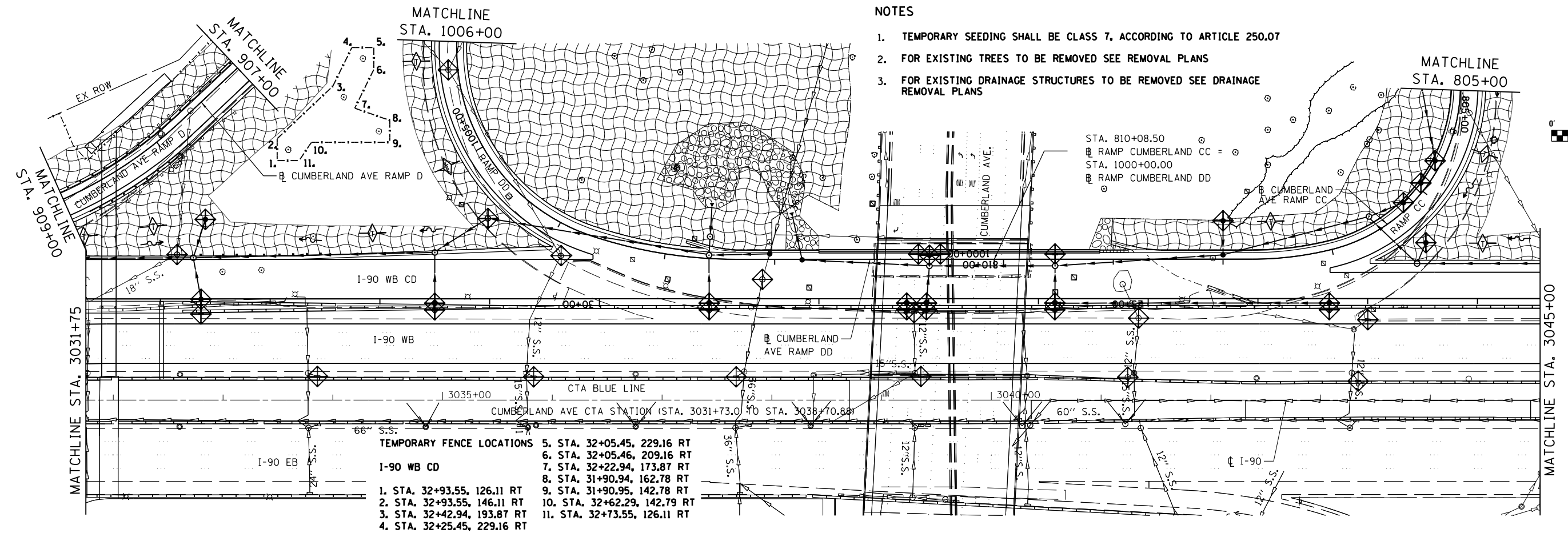
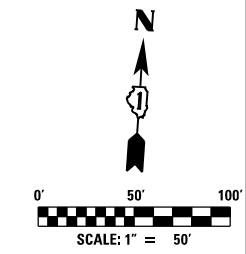
1. STA. 47+20.00, 132.00 RT	5. STA. 46+72.13, 128.56 RT
2. STA. 47+20.00, 117.50 RT	8. STA. 41+87.32, 110.21 RT
3. STA. 46+88.73, 88.21 RT	9. STA. 41+87.32, 90.21 RT
4. STA. 46+88.73, 108.21 RT	10. STA. 43+58.91, 93.65 RT
	11. STA. 45+73.89, 105.28 RT
	12. STA. 45+79.53, 86.7 RT



EROSION CONTROL LEGEND

---	TEMPORARY FENCING	⊞	TEMPORARY SEDIMENT BASIN
---	PERIMETER EROSION BARRIER	TP ⊞	TEMPORARY FENCE FOR TREE TRUNK PROTECTION
◇	DRAINAGE STRUCTURE INLET FILTERS	→	STORM WATER OUTLET
◇	TEMPORARY DITCH CHECK	⊞	STONE RIPRAP
⊞	TEMPORARY SEEDING WITH EROSION CONTROL BLANKET	~	PROPOSED DITCH

- NOTES**
1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
 2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
 3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS



TEMPORARY FENCE LOCATIONS

I-90 WB CD

1. STA. 32+93.55, 126.11 RT	5. STA. 32+05.45, 229.16 RT
2. STA. 32+93.55, 146.11 RT	6. STA. 32+05.46, 209.16 RT
3. STA. 32+42.94, 193.87 RT	7. STA. 32+22.94, 173.87 RT
4. STA. 32+25.45, 229.16 RT	8. STA. 31+90.94, 162.78 RT
	9. STA. 31+90.95, 142.78 RT
	10. STA. 32+62.29, 142.79 RT
	11. STA. 32+73.55, 126.11 RT

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

USER NAME = mamiller	DESIGNED GS	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" / in.	DRAWN ML	REVISED -
PLOT DATE = 5/30/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

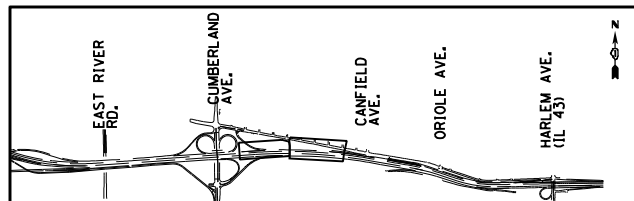
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
EROSION CONTROL PLAN

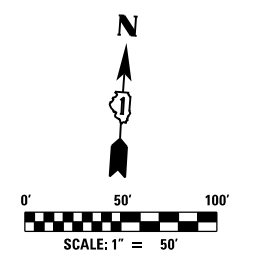
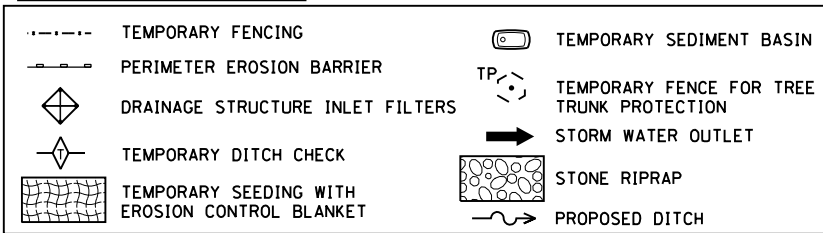
SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	210
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

△ - SHEET REVISED REV. 6/4/18



EROSION CONTROL LEGEND



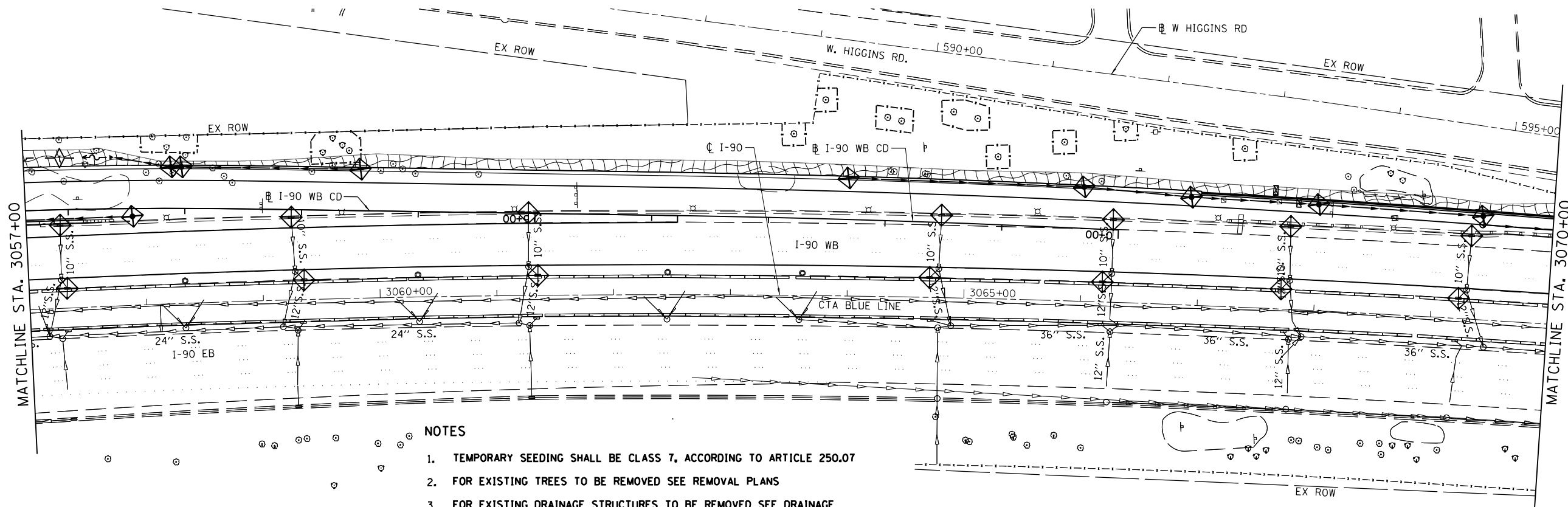
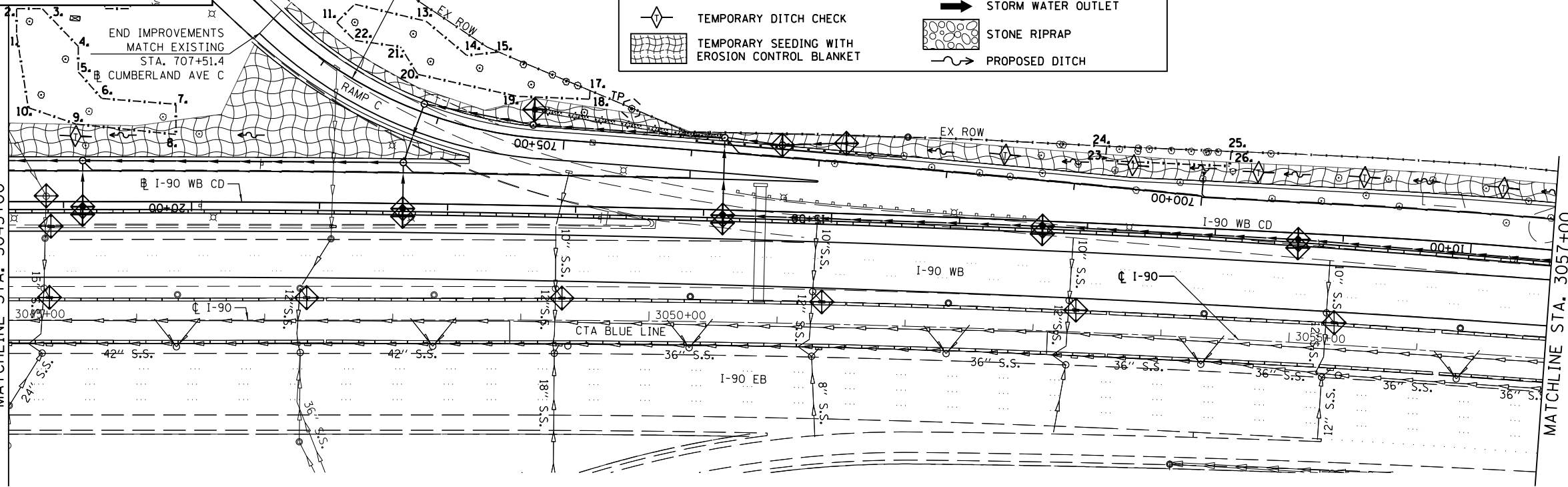
TEMPORARY FENCE LOCATIONS

I-90 WB CD

- 1. STA. 21+36.60, 130.69 RT
- 2. STA. 21+36.60, 150.69 RT
- 3. STA. 21+16.60, 150.68 RT
- 4. STA. 20+88.48, 121.25 RT
- 5. STA. 20+88.48, 101.25 RT
- 6. STA. 20+70.06, 80.49 RT
- 7. STA. 20+12.47, 76.13 RT
- 8. STA. 20+12.40, 52.52 RT
- 9. STA. 20+90.06, 60.49 RT
- 10. STA. 21+27.48, 73.35 RT

RAMP C

- 11. STA. 707+10.09, 29.67 RT
- 12. STA. 707+06.77, 49.45 RT
- 13. STA. 706+40.86, 66.6 RT
- 14. STA. 705+93.08, 53.13 RT
- 15. STA. 705+65.00, 62.00 RT
- 17. STA. 704+82.50, 40.00 RT
- 18. STA. 704+82.59, 33.34 RT
- 19. STA. 705+41.01, 30.61 RT
- 20. STA. 706+28.09, 26.04 RT
- 21. STA. 706+51.72, 39.84 RT
- 22. STA. 706+88.62, 26.21 RT



NOTES

- 1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
- 2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
- 3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS

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

USER NAME = mamiller	DESIGNED GS	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" / 100'	DRAWN ML	REVISED -
PLOT DATE = 5/30/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

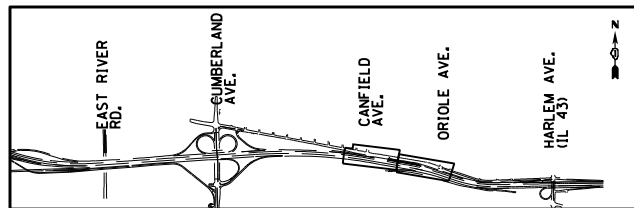
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

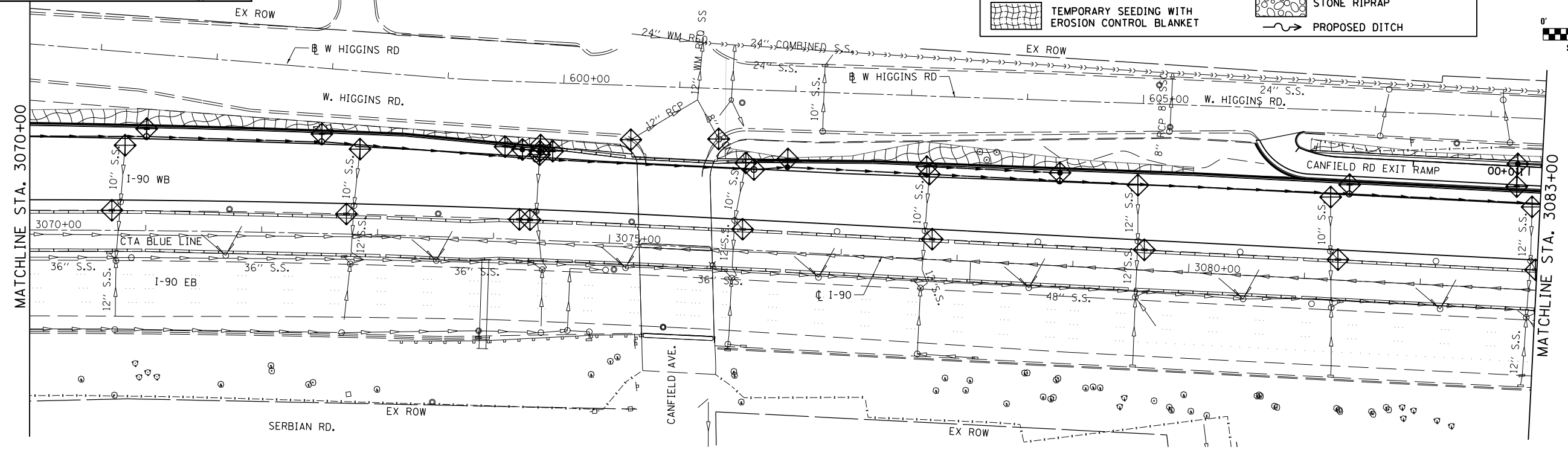
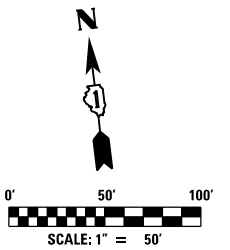
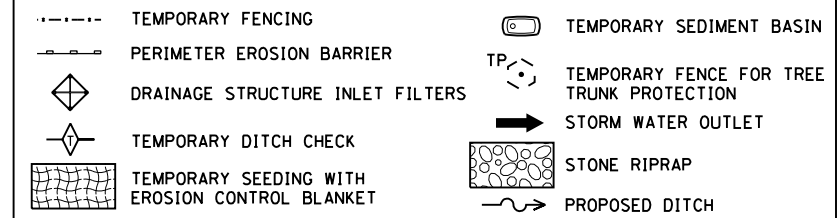
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 211
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

△ - SHEET REVISED REV. 6/4/18

FILE NAME = D160Y39-sh1-eros-03A.dgn

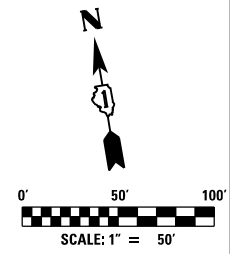
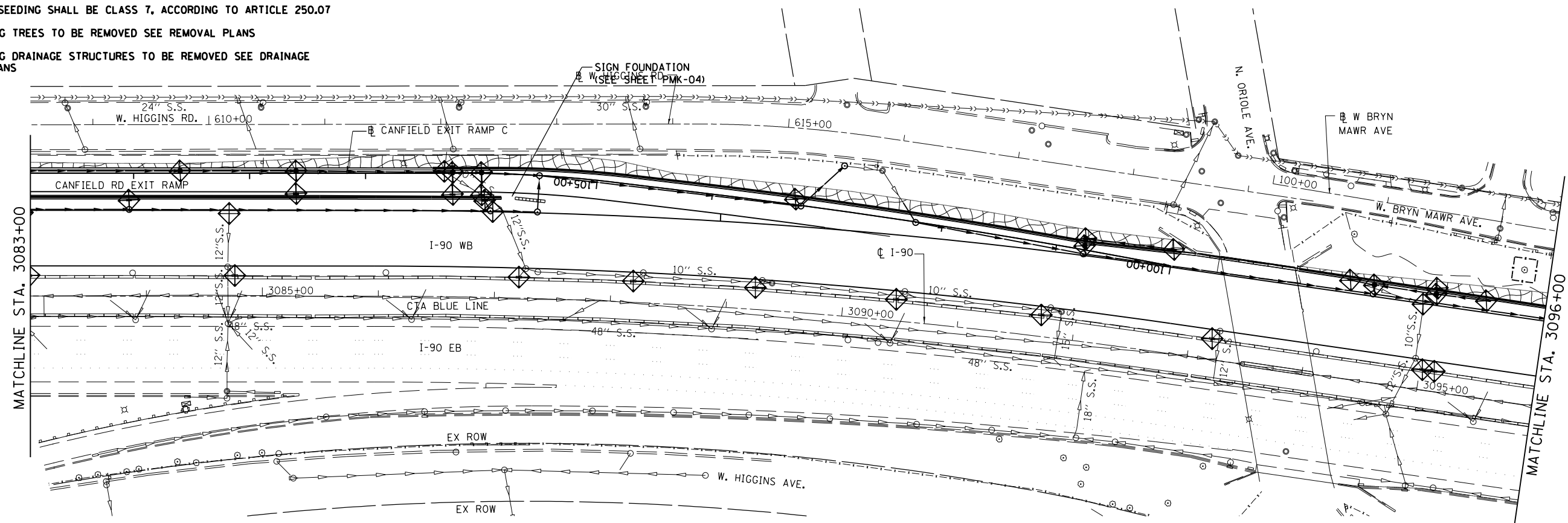


EROSION CONTROL LEGEND



NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS



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

USER NAME = mamiller	DESIGNED GS	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" / in.	DRAWN ML	REVISED -
PLOT DATE = 5/30/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

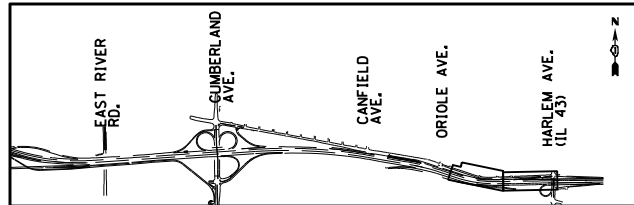
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

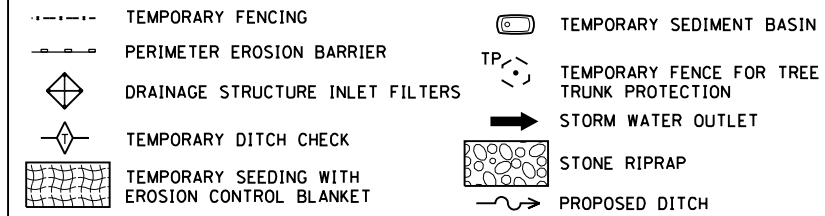
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CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

△ - SHEET REVISED REV. 6/4/18

FILE NAME = D160Y39-sht-eros-04.dgn

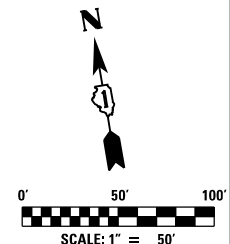
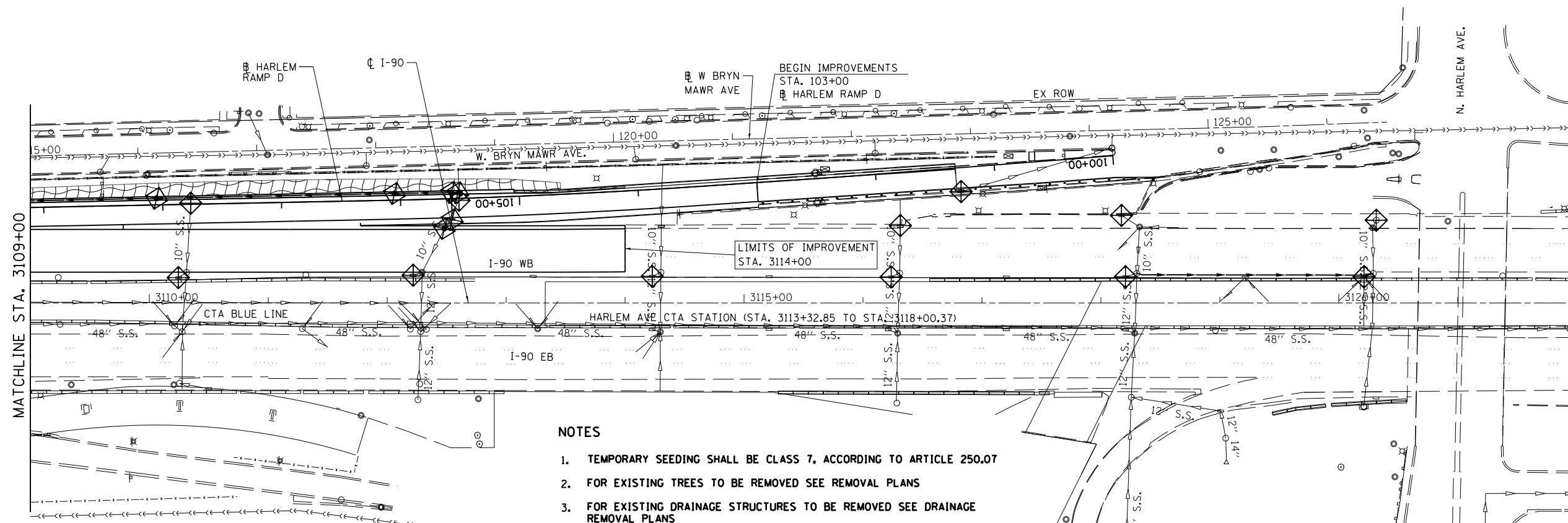
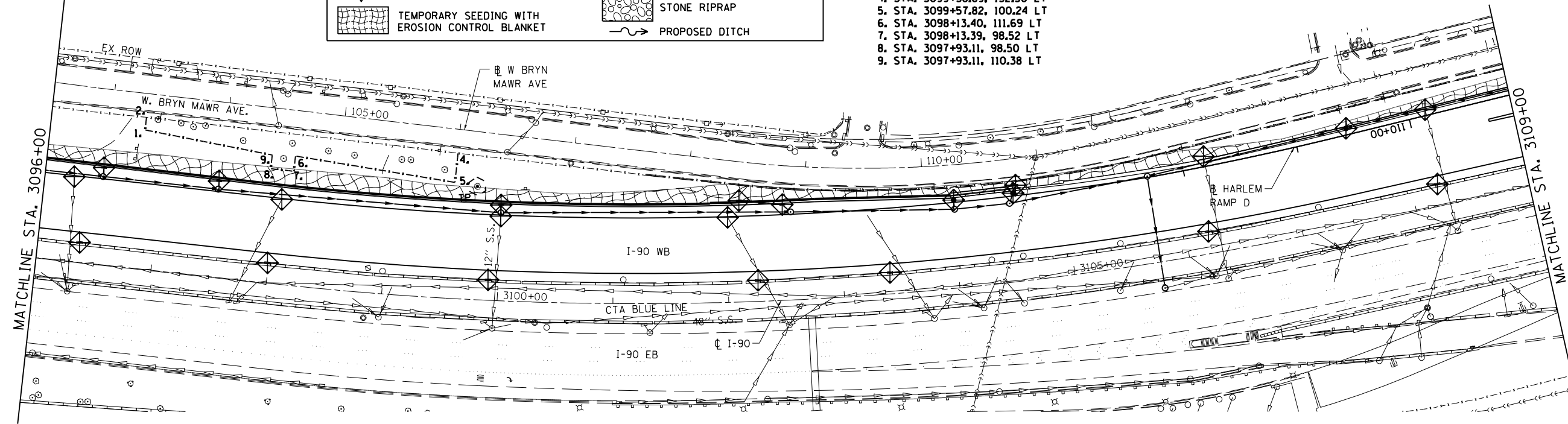
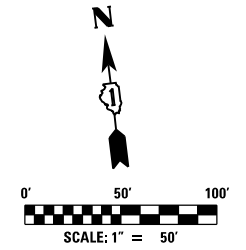


EROSION CONTROL LEGEND



TEMPORARY FENCE LOCATIONS

- I-90 WB**
1. STA. 3096+81.64, 119.89 LT
 2. STA. 3096+81.26, 131.00 LT
 4. STA. 3099+58.89, 152.50 LT
 5. STA. 3099+57.82, 100.24 LT
 6. STA. 3098+13.40, 111.69 LT
 7. STA. 3098+13.39, 98.52 LT
 8. STA. 3097+93.11, 98.50 LT
 9. STA. 3097+93.11, 110.38 LT



NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS

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

USER NAME = mamiller	DESIGNED GS	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" / 1"	DRAWN ML	REVISED -
PLOT DATE = 5/30/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

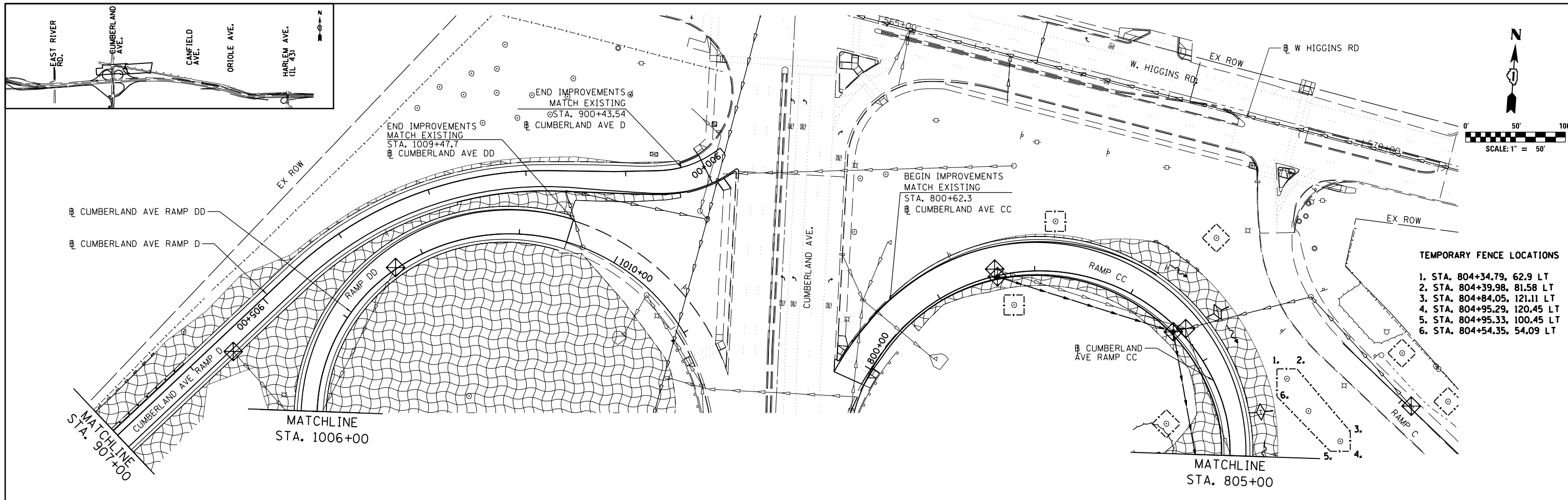
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 213
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

△ - SHEET REVISED REV. 6/4/18

FILE NAME = D168Y39-sh1-eros-05.dgn



EROSION CONTROL LEGEND

	TEMPORARY FENCING		TEMPORARY SEDIMENT BASIN
	PERIMETER EROSION BARRIER		TEMPORARY FENCE FOR TREE TRUNK PROTECTION
	DRAINAGE STRUCTURE INLET FILTERS		STORM WATER OUTLET
	TEMPORARY DITCH CHECK		STONE RIPRAP
	TEMPORARY SEEDING WITH EROSION CONTROL BLANKET		PROPOSED DITCH

NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS
4. TEMPORARY EROSION CONTROL SHALL BE COORDINATED WITH THE MAINTENANCE OF TRAFFIC SEE MOT SHEETS FOR DETAILS.
5. ALL DISTURBED AREA 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.
6. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

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

USER NAME = mamiller	DESIGNED GS	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" = 100'	DRAWN ML	REVISED -
PLOT DATE = 5/30/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

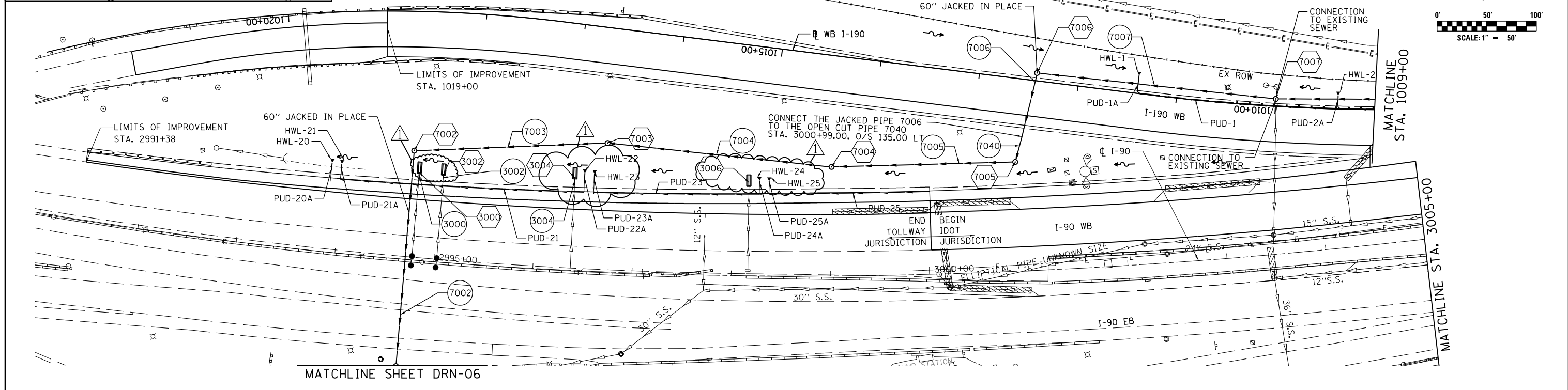
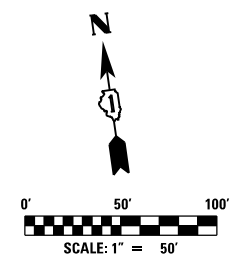
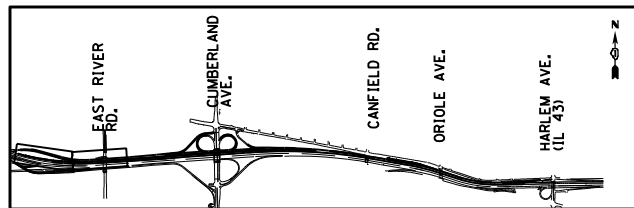
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	214
CONTRACT NO. 60Y39				

ILLINOIS FED. AID PROJECT

△ - SHEET REVISED REV. 6/4/18

FILE NAME = D160Y39-sht-eros-06.dgn

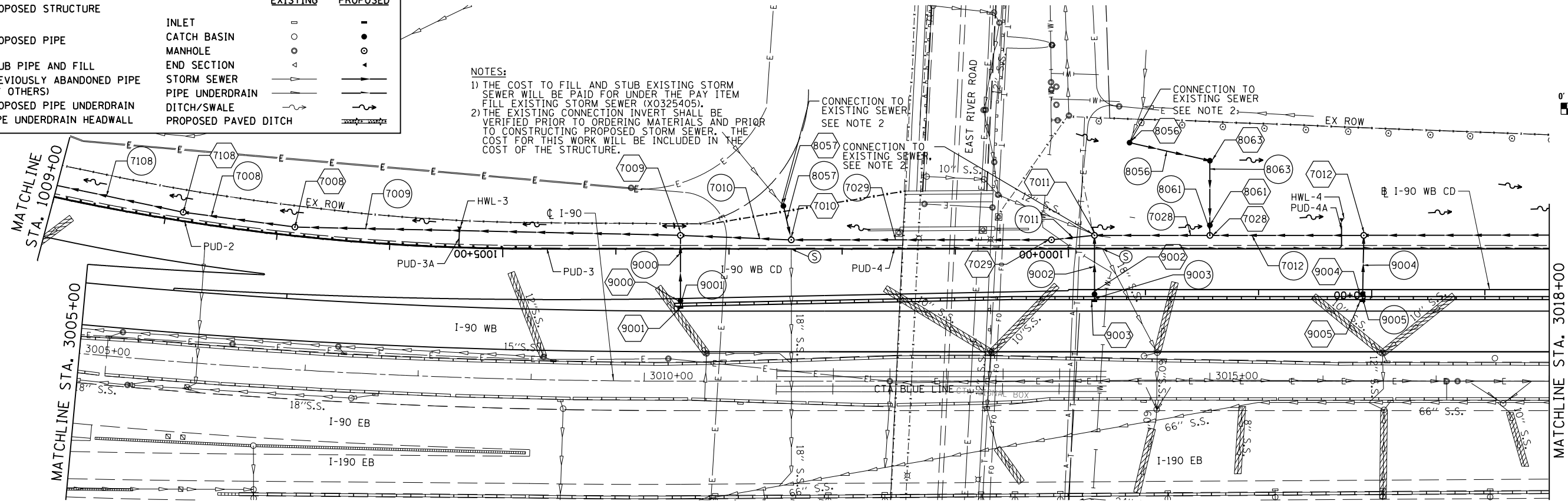
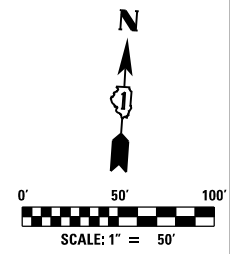
ECS-07



PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED
XXXX		PROPOSED STRUCTURE
XXXX		PROPOSED PIPE
⊙		STUB PIPE AND FILL
▨		PREVIOUSLY ABANDONED PIPE (BY OTHERS)
PUD-XX		PROPOSED PIPE UNDERDRAIN
HWL-XX		PIPE UNDERDRAIN HEADWALL
	□	INLET
	○	CATCH BASIN
	⊙	MANHOLE
	△	END SECTION
	—	STORM SEWER
	—	PIPE UNDERDRAIN
	—	DITCH/SWALE
	—	PROPOSED PAVED DITCH

NOTES:
 1) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).
 2) THE EXISTING CONNECTION INVERT SHALL BE VERIFIED PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTING PROPOSED STORM SEWER. THE COST FOR THIS WORK WILL BE INCLUDED IN THE COST OF THE STRUCTURE.

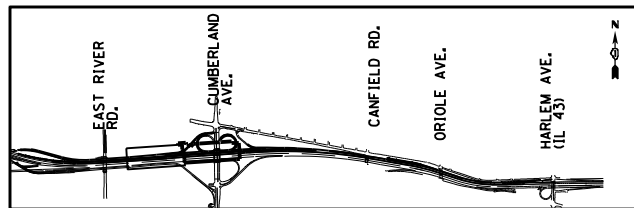


exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = mamiller	DESIGNED HDU	REVISED - 06/01/2018 - MAM
	PLOT SCALE = 2.00" / in.	DRAWN HDU	REVISED -
	PLOT DATE = 5/30/2018	CHECKED SH	REVISED -
		DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 PROPOSED DRAINAGE PLAN**
 SCALE: 1"=50' SHEET NO. 1 OF 20 SHEETS STA. 3005+00 TO STA. 3018+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 234
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

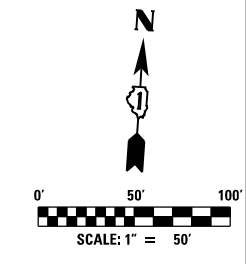
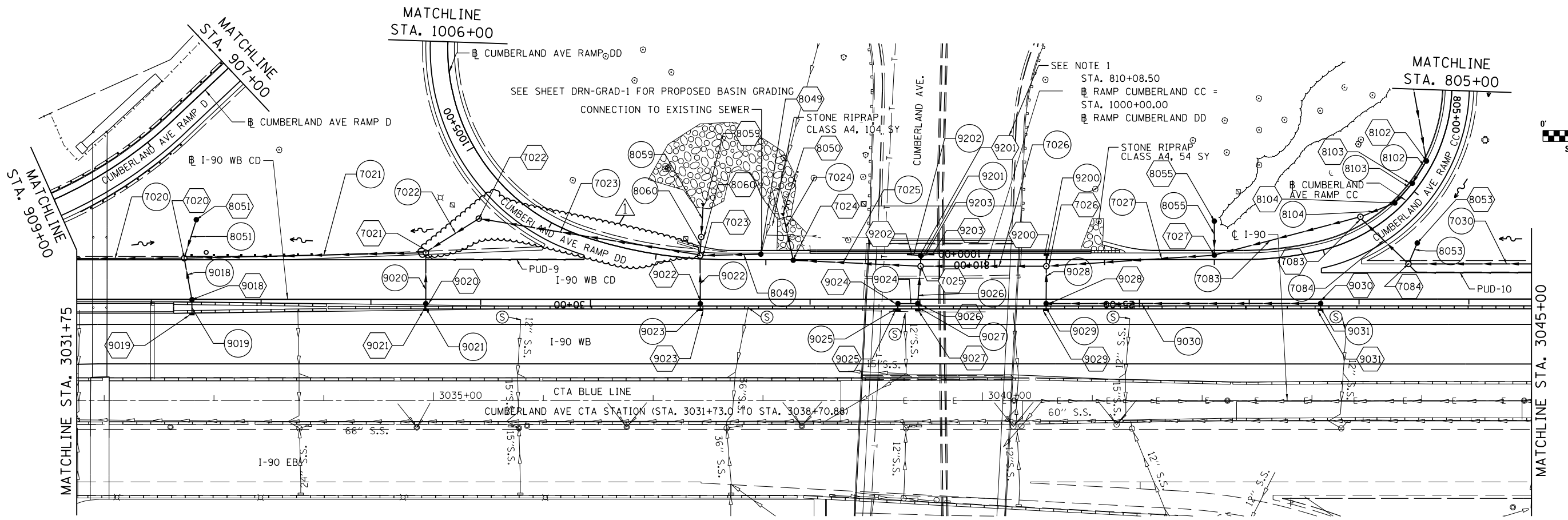
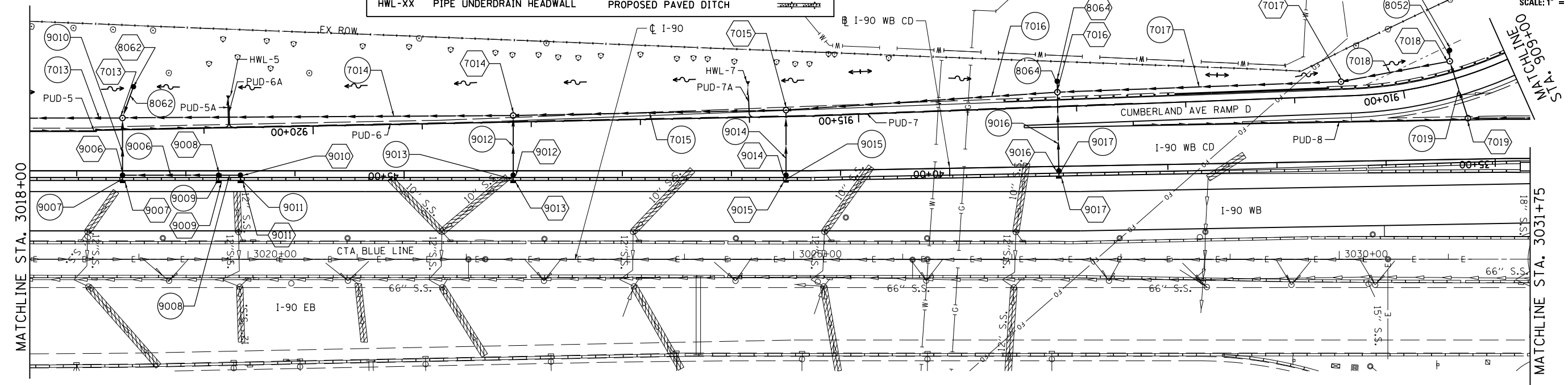
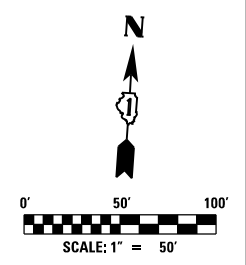


PROPOSED DRAINAGE LEGEND

	EXISTING	PROPOSED
XXXX		PROPOSED STRUCTURE
XXXX		PROPOSED PIPE
⊙		STUB PIPE AND FILL
▨		PREVIOUSLY ABANDONED PIPE (BY OTHERS)
PUD-XX		PROPOSED PIPE UNDERDRAIN
HWL-XX		PIPE UNDERDRAIN HEADWALL
	⊥	INLET
	○	CATCH BASIN
	○	MANHOLE
	△	END SECTION
	—▲—	STORM SEWER
	—▲—	PIPE UNDERDRAIN
	—▲—	DITCH/SWALE
	—▲—	PROPOSED PAVED DITCH

NOTES:

- 1) CONNECT RETAINING WALL PIPE UNDERDRAIN INTO PROPOSED DRAINAGE STRUCTURE 9201. REFER TO WALL 6 STRUCTURAL PLANS.
- 2) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).



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

USER NAME = mamiller	DESIGNED HDU	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.00" / in.	DRAWN HDU	REVISED -
PLOT DATE = 5/30/2018	CHECKED SH	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED DRAINAGE PLAN**

SCALE: 1"=50' SHEET NO. 2 OF 20 SHEETS STA. 3018+00 TO STA. 3045+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 235
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

DRN-02

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			
100	MAN TA 8 DIA TIF CL	CL I-90	3105+75.0	75.0	RT	642.56	--	622.86	632.20	622.91	--	100 - DIA 48"	9151 - DIA 24"	7086 - DIA 48"	DRN-5	TAPERED	
101	MAN TA 8 DIA TIF CL	CL I-90	3105+75.0	22.8	RT	642.52	622.77	--	622.72	--	100 - DIA 48"	--	EP - DIA 48"	--	DRN-5	TAPERED	
3000	SLOPED HEADWALL TYPE III 15" 1:4	CL I-90	2994+78.0	88.4	LT	--	--	628.18	--	--	--	3000 - DIA 15"	--	--	DRN-1	--	
3002	SLOPED HEADWALL TYPE III 15" 1:4	CL I-90	2995+03.0	88.5	LT	--	--	628.26	--	--	--	3002 - DIA 15"	--	--	DRN-1	--	
3004	SLOPED HEADWALL TYPE III 15" 1:4	CL I-90	2996+37.9	93.4	LT	--	--	628.66	--	--	--	3004 - DIA 15"	--	--	DRN-1	--	
3006	SLOPED HEADWALL TYPE III 15" 1:4	CL I-90	2998+16.8	94.0	LT	--	--	629.22	--	--	--	EP - DIA 15"	--	--	DRN-1	--	
7000	MAN TA 9 DIA TIF CL	EB I-190	105+57.0	110.0	LT	626.08	--	613.83	614.99	--	--	7000 - DIA 60"	7001 - DIA 60"	--	DRN-4	TAPERED	
7001	MAN TA 9 DIA TIF CL	EB I-190	107+47.0	137.0	LT	634.42	615.27	--	--	615.23	7002 - DIA 60"	--	--	7001 - DIA 60"	DRN-4	TAPERED	
7002	MAN TA 9 DIA TIF CL	CL I-90	2994+71.0	110.0	LT	632.45	--	615.90	615.96	--	--	7002 - DIA 60"	7003 - DIA 60"	--	DRN-6	TAPERED	
7003	MAN TA 9 DIA TIF CL	CL I-90	2996+70.0	130.0	LT	634.64	--	--	616.27	616.20	--	--	7004 - DIA 60"	7003 - DIA 60"	DRN-1	TAPERED	
7004	MAN TA 9 DIA TIF CL	CL I-90	2999+01.9	110.0	LT	632.84	--	--	616.61	616.55	--	--	7005 - DIA 60"	7004 - DIA 60"	DRN-1	TAPERED	
7005	MAN TA 9 DIA TIF CL	CL I-90	3000+91.0	110.2	LT	633.11	616.89	--	--	616.84	7040 - DIA 60"	--	--	7005 - DIA 60"	DRN-1	TAPERED	
7006	MAN TA 9 DIA TIF CL	WB I-190	1012+42.5	8.0	RT	634.66	--	617.00	617.05	--	--	7006 - DIA 60"	7007 - DIA 60"	--	DRN-1	TAPERED	
7007	MAN TA 9 DIA TIF CL	WB I-190	1010+00.0	7.5	RT	631.87	622.29	622.10	617.38	617.35	EP - DIA 24"	EP - DIA 24"	7108 - DIA 60"	7007 - DIA 60"	DRN-1	TAPERED	
7008	MAN TA 9 DIA TIF CL	WB I-190	1006+85.0	8.0	RT	632.80	--	--	617.88	617.78	--	--	7009 - DIA 60"	7008 - DIA 60"	DRN-1	TAPERED	
7009	MAN TA 9 DIA TIF CL	WB I-190	1003+43.0	12.0	RT	635.21	--	630.91	618.41	618.31	--	9000 - DIA 15"	7010 - DIA 60"	7009 - DIA 60"	DRN-2	TAPERED	
7010	MAN TA 9 DIA TIF CL	WB I-190	1002+45.0	8.0	RT	636.19	622.99	--	618.60	618.53	8057 - DIA 21"	--	7010 - DIA 60"	7010 - DIA 60"	DRN-2	TAPERED	
7011	MAN TA 9 DIA TIF CL	WB CD	52+45.0	48.0	RT	635.68	--	631.49	618.98	624.00	--	9002 - DIA 15"	7028 - DIA 60"	EP - DIA 12"	DRN-1	TAPERED	
7012	MAN TA 9 DIA TIF CL	WB CD	50+07.0	48.0	RT	634.96	--	630.70	619.47	619.37	--	9004 - DIA 15"	7013 - DIA 60"	7012 - DIA 60"	DRN-1	TAPERED	
7013	MAN TA 9 DIA TIF CL	WB CD	47+58.0	48.5	RT	634.21	622.74	628.40	619.95	619.92	8062 - DIA 18"	9010 - DIA 18"	7014 - DIA 60"	7013 - DIA 60"	DRN-2	TAPERED	
7014	MAN TA 9 DIA TIF CL	WB CD	44+00.0	50.6	RT	635.10	--	630.60	620.43	620.40	--	9012 - DIA 15"	7015 - DIA 60"	7014 - DIA 60"	DRN-2	TAPERED	
7015	MAN TA 9 DIA TIF CL	WB CD	41+50.0	55.6	RT	636.12	--	631.70	620.85	620.75	--	9014 - DIA 15"	7016 - DIA 60"	7015 - DIA 60"	DRN-2	TAPERED	
7016	MAN TA 9 DIA TIF CL	WB CD	39+00.0	68.0	RT	635.12	626.51	630.47	621.26	621.16	8064 - DIA 15"	9016 - DIA 15"	7017 - DIA 60"	7016 - DIA 60"	DRN-2	TAPERED	
7017	MAN TA 9 DIA TIF CL	WB CD	36+40.0	73.0	RT	636.27	--	--	621.69	621.59	--	--	7018 - DIA 60"	7017 - DIA 60"	DRN-2	TAPERED	
7018	MAN TA 9 DIA TIF CL	WB CD	35+40	90.0	RT	634.42	626.86	621.92	--	621.81	8052 - DIA 18"	7019 - DIA 60"	--	7018 - DIA 60"	DRN-2	TAPERED	
7019	MAN TA 9 DIA TIF CL	WB CD	35+24	37.5	RT	638.06	621.98	--	622.08	--	7019 - DIA 60"	--	7020 - DIA 60"	--	DRN-2	TAPERED	
7020	MAN TA 9 DIA TIF CL	WB CD	33+70	37.5	RT	637.27	626.33	632.95	622.36	622.27	8051 - DIA 24"	9018 - DIA 15"	7021 - DIA 60"	7020 - DIA 60"	DRN-2	TAPERED	
7021	MAN TA 9 DIA TIF CL	WB CD	31+50	42.3	RT	635.94	622.74	631.57	--	622.64	7022 - DIA 60"	9020 - DIA 15"	--	7021 - DIA 60"	DRN-2	TAPERED	
7022	MAN TA 8 DIA TIF CL	CUMBERLAND RAMP DD	1004+51.0	36.8	LT	632.00	--	622.82	622.82	--	--	7022 - DIA 60"	7023 - DIA 48"	--	DRN-2	TAPERED	
7023	MAN TA 9 DIA TIF CL	CUMBERLAND RAMP DD	1002+60.0	3.0	RT	634.92	623.85	630.03	623.08	623.08	8060 - DIA 48"	9022 - DIA 15"	8049 - DIA 36"	7023 - DIA 48"	DRN-2	TAPERED	
7024	MAN TA 8 DIA TIF CL	CUMBERLAND RAMP DD	1001+75.0	0.5	LT	634.66	627.54	--	627.54	--	7024 - DIA 48"	--	7025 - DIA 48"	--	DRN-2	TAPERED	
7025	MAN TA 9 DIA TIF CL	CUMBERLAND RAMP DD	1000+59.0	6.0	LT	634.38	629.88	628.94	627.65	627.65	9201 - DIA 12"	9026 - DIA 15"	7026 - DIA 48"	7025 - DIA 48"	DRN-2	TAPERED	
7026	MAN TA 8 DIA TIF CL	CUMBERLAND RAMP CC	809+53.0	6.0	LT	634.82	630.43	628.33	627.77	627.76	9200 - DIA 12"	9028 - DIA 15"	7027 - DIA 48"	7026 - DIA 48"	DRN-2	TAPERED	
7027	MAN TA 8 DIA TIF CL	CUMBERLAND RAMP CC	808+00.0	4.0	RT	635.30	627.88	--	627.87	627.87	8055 - DIA 18"	--	7083 - DIA 48"	7027 - DIA 48"	DRN-2	TAPERED	
7028	MAN TA 9 DIA TIF CL	WB CD	51+43.0	48.0	RT	635.37	626.00	--	619.20	619.10	8061 - DIA 21"	--	7012 - DIA 60"	7028 - DIA 60"	DRN-1	TAPERED	
7029	MAN TA 9 DIA TIF CL	CUMBERLAND RAMP DD	1000+15.0	8.0	RT	635.96	--	--	618.90	618.89	--	--	7011 - DIA 60"	7029 - DIA 60"	DRN-2	TAPERED	
7030	MAN TA 7 DIA TIF CL	WB CD	20+85.0	32.0	RT	637.37	--	632.41	629.41	628.33	--	9032 - DIA 15"	7031 - DIA 36"	7030 - DIA 48"	DRN-3	TAPERED	
7031	MAN TA 7 DIA TIF CL	WB CD	18+35.0	32.0	RT	638.75	630.77	633.90	--	630.75	7032 - DIA 36"	9034 - DIA 15"	--	7031 - DIA 36"	DRN-3	TAPERED	
7032	MAN TA 7 DIA TIF CL	CUMBERLAND RAMP C	706+14.0	6.5	RT	637.57	--	631.00	631.07	--	--	7032 - DIA 36"	7085 - DIA 36"	--	DRN-3	TAPERED	
7033	MAN TA 6 DIA TIF CL	WB CD	15+85.0	56.5	RT	638.46	--	633.65	634.70	632.33	--	9036 - DIA 18"	7035 - DIA 18"	7033 - DIA 36"	DRN-3	FLAT	
7034	CONC ES 542001 18 1:4	WB CD	15+00.0	55.0	RT	--	--	--	--	638.15	--	--	--	7034 - DIA 18"	--	DRN-3	--
7035	CB TA 4 DIA T8G	WB CD	15+40.0	52.0	RT	639.70	--	--	635.29	635.56	--	--	7034 - DIA 18"	7035 - DIA 18"	DRN-3	FLAT	
7036	CONC ES 542001 18 1:4	WB CD	08+53.0	44.0	RT	--	--	--	641.10	--	--	--	7037 - DIA 18"	--	DRN-3	--	
7038	MANHOLE SPECIAL	CL I-90	2993+62.8	395.8	RT	629.76	613.55	--	613.68	613.58	7041 - DIA 60"	--	EP - DIA 66"	EP - DIA 66"	DRN-6	TAPERED	
7051	MAN TA 7 DIA TIF CL	CL I-90	3100+00.0	76.0	LT	638.83	634.23	--	623.64	623.66	9100 - DIA 15"	--	7051 - DIA 48"	7052 - DIA 48"	DRN-5	TAPERED	
7052	MAN TA 7 DIA TIF CL	CL I-90	3097+50.0	76.0	LT	637.28	632.61	--	623.89	623.91	9101 - DIA 15"	--	7052 - DIA 48"	7053 - DIA 48"	DRN-5	TAPERED	
7053	MAN TA 7 DIA TIF CL	CL I-90	3096+50.0	76.0	LT	636.63	631.99	--	624.01	624.03	9102 - DIA 15"	--	7053 - DIA 48"	7054 - DIA 48"	DRN-5	TAPERED	
7054	MAN TA 7 DIA TIF CL	CL I-90	3094+51.0	76.0	LT	636.07	630.36	--	624.22	624.24	9103 - DIA 15"	--	7054 - DIA 48"	7055 - DIA 48"	DRN-4	TAPERED	
7055	MAN TA 7 DIA TIF CL	CANFIELD EXIT RAMP	100+76.0	3.5	LT	638.98	634.73	--	624.49	624.49	9107 - DIA 15"	--	7055 - DIA 48"	7090 - DIA 48"	DRN-4	TAPERED	
7056	MAN TA 7 DIA TIF CL	CANFIELD EXIT RAMP	103+23.0	0.5	LT	640.90	636.37	--	624.87	624.94	9108 - DIA 15"	--	7056 - DIA 48"	7057 - DIA 48"	DRN-4	TAPERED	
7057	MAN TA 8 DIA TIF CL	CANFIELD EXIT RAMP	105+50.0	0.2	LT	642.09	--	625.23	625.16	636.76	--	7058 - DIA 48"	7057 - DIA 48"	DRN-4	TAPERED		
7058	MAN TA 8 DIA TIF CL	CL I-90	3087+35.0	74.8	LT	641.37	625.25	--	--	625.32	7058 - DIA 48"	--	--	7059 - DIA 48"	DRN-4	TAPERED	
7059	MAN TA 7 DIA TIF CL	CL I-90	3086+95.0	74.8	LT	641.35	637.35	--	625.36	625.42	9118 - DIA 12"	--	7059 - DIA 48"	7060 - DIA 48"	DRN-4	TAPERED	
7060	MAN TA 7 DIA TIF CL	CL I-90	3083+85.0	74.8	LT	639.72	636.06	--	625.73	625.80	9119 - DIA 8"	--	7060 - DIA 48"	7061 - DIA 48"	DRN-4	TAPERED	
7061	MAN TA 7 DIA TIF CL	CL I-90	3081+35.0	74.8	LT	637.64	633.64	--	626.04	626.12	9120 - DIA 12"	--	7061 - DIA 48"	7062 - DIA 48"	DRN-4	TAPERED	
7062	MAN TA 8 DIA TIF CL	CL I-90	3078+85.0	71.5	LT	636.47	630.01	--	626.36	626.43	9121 - DIA 15"	--	7062 - DIA 48"	7063 - DIA 48"	DRN-4	TAPERED	
7063	MAN TA 7 DIA T20F&G	CL I-90	3076+50.0	73.4	LT	635.22	631.13	--	626.66	626.73	9162 - DIA 12"	--	7063 - DIA 48"	7068 - DIA 48"	DRN-4	TAPERED	
7064	MAN TA 8 DIA TIF CL	CL I-90	3074+34.0	69.8	LT	634.58	629.54	--	627.00	627.28	9123 - DIA 15"	--	7064 - DIA 48"	7065 - DIA 48"	DRN-4	TAPERED	
7065	MAN TA 8 DIA TIF CL	CL I-90	3072+50.0	78.1	LT	635.75	631.29	--	627.46	627.56	9125 - DIA 15"	--	7065 - DIA 48"	7066 - DIA 48"	DRN-4	TAPERED	
7066	MAN TA 8 DIA TIF CL	CL I-90	3071+00.0	80.1	LT	637.81	633.24	--	629.74	629.84	9126 - DIA 15"	--	7066 - DIA 48"	7067 - DIA 48"	DRN-4	TAPERED	
7067	MAN TA 6 DIA TIF CL	CL I-90	3069+41.0	81.4	LT	640.20	635.15	--	632.14	--	9127 - DIA 18"	--	7067 - DIA 48"	--	DRN-3	FLAT	
7068	MAN TA 7 DIA TIF OL	CL I-90	3076+21.3	69.5	LT	635.17	--	--	626.75	626.82	--	--	7068 - DIA 48"	7064 - DIA 48"	DRN-4	TAPERED	
7080	MAN TA 7 DIA TIF CL	CL I-90	3102+57.0	76.0	LT	641.37	636.70	--	623.30	623.39	9150 - DIA 15"	--	7080 - DIA 48"	7051 - DIA 48"	DRN-5	TAPERED	
7081	MAN TA 7 DIA TIF CL	CL I-90	3104+02.0	68.0	LT	642.72	638.00	--	623.12	623.17	9158 - DIA 15"	--	7081 - DIA 48"	7080 - DIA 48"</			

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		
9103	CB TA 4 DIA T20F&G	☉ I-90	3094+51	83.9	LT	635.65	--	630.39	630.49	631.66	--	9103 - DIA 15"	9104 - DIA 15"	9106 - DIA 15"	DRN-4	FLAT
9104	CB TA 4 DIA T20F&G	☉ I-90	3095+05	83.6	LT	635.59	631.50	--	631.05	630.95	9204 - DIA 12"	--	9105 - DIA 15"	--	DRN-4	FLAT
9105	INLETS TA T20F&G	☉ I-90	3095+50	84.4	LT	635.64	--	--	--	631.52	--	--	--	9105 - DIA 15"	DRN-4	--
9106	INLETS TA T20F&G	☉ I-90	3094+30	85.1	LT	636.09	--	--	631.84	--	--	--	9106 - DIA 15"	--	DRN-4	--
9107	CB TA 4 DIA T20F&G	CANFIELD EXIT RAMP	100+76	3.7	RT	638.84	634.84	634.75	--	--	9207 - DIA 12"	9107 - DIA 15"	--	--	DRN-4	FLAT
9108	INLETS TA T20F&G	CANFIELD EXIT RAMP	103+29	4.8	RT	640.72	--	636.40	--	--	--	9108 - DIA 15"	--	--	DRN-4	--
9110	CB TA 4 DIA T20F&G	CANFIELD EXIT RAMP	106+25	0.7	RT	642.34	638.46	637.71	637.46	637.56	9160 - DIA 12"	9116 - DIA 12"	9110 - DIA 15"	9111 - DIA 15"	DRN-4	FLAT
9111	CB TA 4 DIA T23F&G	CANFIELD EXIT RAMP	107+60	2.0	RT	644.78	--	640.71	639.99	640.09	--	9115 - DIA 12"	9111 - DIA 15"	9112 - DIA 15"	DRN-4	FLAT
9112	CB TA 4 DIA T23F&G	CANFIELD EXIT RAMP	108+60	2.0	RT	647.64	--	--	642.84	642.94	--	--	9112 - DIA 15"	9113 - DIA 15"	DRN-4	FLAT
9113	CB TA 4 DIA T23F&G	CANFIELD EXIT RAMP	110+10	2.0	RT	651.87	--	647.74	646.96	--	--	9114 - DIA 12"	9113 - DIA 15"	--	DRN-5	FLAT
9114	INLETS TA T20F&G	CANFIELD EXIT RAMP	110+10	17.5	LT	652.25	647.91	--	--	--	9114 - DIA 12"	--	--	--	DRN-5	--
9115	INLETS TA T20F&G	CANFIELD EXIT RAMP	107+60	17.5	LT	645.28	640.88	--	--	--	9115 - DIA 12"	--	--	--	DRN-4	--
9116	INLETS TA T20F&G	CANFIELD EXIT RAMP	106+25	18.2	LT	641.93	637.86	--	--	--	9116 - DIA 12"	--	--	--	DRN-4	--
9117	INLETS TA T20F&G	CANFIELD EXIT RAMP	106+00	18.6	LT	641.52	638.08	--	--	--	9117 - DIA 12"	--	--	--	DRN-4	--
9118	INLETS TA T20F&G	☉ I-90	3086+90	83.7	LT	641.17	--	639.00	--	--	--	9118 - DIA 12"	--	--	DRN-4	--
9119	INLETS TA T20F&G	☉ I-90	3083+85	82.8	LT	638.47	--	636.80	--	--	--	9119 - DIA 8"	--	--	DRN-4	--
9120	INLETS TA T20F&G	☉ I-90	3081+35	82.8	LT	637.26	--	635.50	--	--	--	9120 - DIA 12"	--	--	DRN-4	--
9121	CB TA 4 DIA T20F&G	☉ I-90	3078+85	80.1	LT	636.04	--	630.03	--	630.14	--	9121 - DIA 15"	--	9122 - DIA 15"	DRN-4	TAPERED
9122	INLETS TA T20F&G	☉ I-90	3077+70	79.7	LT	635.51	--	--	631.26	--	--	--	9122 - DIA 15"	--	DRN-4	--
9123	CB TA 4 DIA T20F&G	☉ I-90	3074+37	76.8	LT	634.21	630.36	629.60	629.77	629.82	9161 - DIA 12"	9123 - DIA 15"	9131 - DIA 12"	9134 - DIA 15"	DRN-4	FLAT
9124	INLETS TA T20F&G	☉ I-90	3074+07	79.5	LT	634.33	--	--	630.08	--	--	--	9124 - DIA 15"	--	DRN-4	--
9125	INLETS TA T20F&G	☉ I-90	3072+50	85.8	LT	635.39	--	631.32	--	--	--	9125 - DIA 15"	--	--	DRN-4	--
9126	INLETS TA T20F&G	☉ I-90	3071+00	87.9	LT	637.44	--	633.26	--	--	--	9126 - DIA 15"	--	--	DRN-4	--
9127	CB TA 4 DIA T20F&G	☉ I-90	3069+40	88.9	LT	639.69	--	635.19	--	635.19	--	9127 - DIA 18"	--	9128 - DIA 18"	DRN-3	FLAT
9128	CB TA 4 DIA T20F&G	☉ I-90	3068+00	91.0	LT	641.71	--	--	636.56	637.45	--	--	9128 - DIA 18"	9132 - DIA 15"	DRN-3	FLAT
9129	CB TA 4 DIA T9F&G	WB CD	0+31	35.5	RT	644.16	--	--	639.43	639.35	--	--	9129 - DIA 15"	9130 - DIA 15"	DRN-3	FLAT
9130	INLETS TA T9F&G	WB CD	2+32	35.5	RT	645.49	--	--	641.34	--	--	--	9130 - DIA 15"	--	DRN-3	--
9131	INLETS TA T20F&G	☉ I-90	3074+48	77.2	LT	634.21	--	--	--	630.04	--	--	--	9131 - DIA 12"	DRN-4	--
9132	CB TA 4 DIA T20F&G	☉ I-90	3066+92	92.5	LT	643.27	--	--	638.50	638.54	--	--	9132 - DIA 15"	9129 - DIA 15"	DRN-3	FLAT
9134	CB TA 4 DIA T20F&G	☉ I-90	3074+22	77.6	LT	634.27	--	--	629.94	629.95	--	--	9134 - DIA 15"	9124 - DIA 15"	DRN-4	FLAT
9135	CB TA 4 DIA T20F&G	HARLEM RAMP D	106+00	0.7	RT	642.15	--	637.86	637.20	637.25	--	9117 - DIA 12"	9135 - DIA 15"	9110 - DIA 15"	DRN-4	FLAT
9150	CB TA 4 DIA T20F&G	☉ I-90	3102+50	81.7	LT	640.98	--	636.72	--	636.98	--	9150 - DIA 15"	--	9205 - DIA 12"	DRN-5	FLAT
9151	CB TA 4 DIA T9F&G	HARLEM RAMP D	110+55	5.6	RT	641.79	--	--	632.54	632.49	--	--	9152 - DIA 21"	9151 - DIA 24"	DRN-5	TAPERED
9152	CB TA 4 DIA T9F&G	HARLEM RAMP D	108+05	5.6	RT	639.53	--	--	633.43	633.18	--	--	9153 - DIA 15"	9152 - DIA 21"	DRN-4	TAPERED
9153	CB TA 4 DIA T9F&G	HARLEM RAMP D	106+05	5.6	RT	637.17	--	--	633.92	633.92	--	--	9154 - DIA 15"	9153 - DIA 15"	DRN-4	FLAT
9154	CB TA 4 DIA T9F&G	HARLEM RAMP D	105+57	5.2	RT	636.97	--	634.29	634.29	634.03	--	9156 - DIA 12"	9155 - DIA 12"	DRN-4	FLAT	
9155	INLETS TA T9F&G	HARLEM RAMP D	105+50	5.2	RT	636.97	--	--	--	634.31	--	--	--	9155 - DIA 12"	DRN-4	--
9156	INLETS TA T9F&G	HARLEM RAMP D	105+57	17.6	LT	637.85	634.38	--	--	--	9156 - DIA 12"	--	--	--	DRN-4	--
9157	CB TA 4 DIA T1F OL	☉ I-90	3112+48	62.7	LT	637.53	--	632.57	--	--	--	EP - DIA 10"	--	--	DRN-5	TAPERED
9158	INLETS TA T20F&G	☉ I-90	3104+02	77.0	LT	642.31	--	638.05	--	--	--	9158 - DIA 15"	--	--	DRN-5	--
9159	CB TA 4 DIA T20F&G	☉ I-90	3104+55	76.4	LT	642.41	638.37	638.27	--	--	9163 - DIA 12"	9159 - DIA 15"	--	--	DRN-5	FLAT
9200	INLETS TA T20F&G	CUMBERLAND RAMP CC	809+53	4.8	RT	634.46	--	630.46	--	--	--	9200 - DIA 12"	--	--	DRN-2	--
9201	CB TA 4 DIA T20F&G	CUMBERLAND RAMP DD	1000+59	3.7	RT	634.02	--	629.90	629.99	629.99	--	9201 - DIA 12"	9203 - DIA 12"	9202 - DIA 12"	DRN-2	FLAT
9202	INLETS TA T20F&G	CUMBERLAND RAMP DD	1000+69	4.8	RT	634.02	--	--	630.02	--	--	--	9202 - DIA 12"	--	DRN-2	--
9203	INLETS TA T20F&G	CUMBERLAND RAMP DD	1000+49	4.8	RT	634.02	--	--	--	630.02	--	--	--	9203 - DIA 12"	DRN-2	--
9204	INLETS TA T10F&G	☉ I-90	3095+05	88.8	LT	640.32	--	631.52	--	--	--	9204 - DIA 12"	--	--	DRN-4	--
9205	INLETS TA T10F&G	☉ I-90	3102+11	87.5	LT	643.84	--	--	637.33	--	--	--	9205 - DIA 12"	--	DRN-5	--
9207	CB TA 4 DIA T10F&G	HARLEM RAMP D	100+76	10.0	RT	643.55	--	634.89	636.27	--	--	9207 - DIA 12"	9208 - DIA 12"	--	DRN-4	TAPERED
9208	INLETS TA T10F&G	HARLEM RAMP D	100+00	14.5	RT	641.00	--	--	--	637.00	--	--	--	9208 - DIA 12"	DRN-4	--
9210	INLETS TA T10F&G	☉ I-90	3086+62	112.6	LT	643.61	--	638.49	--	--	--	9160 - DIA 12"	--	--	DRN-4	--
9223	INLETS TA T10F&G	☉ I-90	3074+37	82.0	LT	637.93	--	630.38	--	--	--	9161 - DIA 12"	--	--	DRN-4	--
9263	INLETS TA T10F&G	☉ I-90	3076+50	80.1	LT	638.41	--	631.16	--	--	--	9162 - DIA 12"	--	--	DRN-4	--
9286	INLETS TA T1F OL	☉ I-90	3104+58	83.0	LT	642.41	--	638.41	--	--	--	9163 - DIA 12"	--	--	DRN-5	--

ES = EXISTING STRUCTURE
EP = EXISTING PIPE

PIPE NO.	DRAWING NO.	ALIGNMENT	STATION	OFFSET	INVERT (FT)	QUANTITY (EACH)
HWL-1	DRN-01	WB 190	1011+40	18.12	629.50	1
HWL-2	DRN-01	WB 190	1009+37	13.69	629.50	1
HWL-3	DRN-01	WB 190	1005+39	14.85	630.50	1
HWL-4	DRN-01	WB CD	50+27	59.41	632.00	1
HWL-5	DRN-02	WB CD	46+61	65.19	629.00	1
HWL-7	DRN-02	RAMP D	916+01	29.32	630.50	1
HWL-14	DRN-03	WB CD	12+11	40.48	639.00	1
TOTAL						7

PIPE NO.	DRAWING NO.	ALIGNMENT	STATION	OFFSET	INVERT (FT)	QUANTITY (EACH)
HWL-20	DRN-01	WB 190	2993+88	-90.25	627.50	1
HWL-21	DRN-01	WB 190	2993+98	-90.03	627.50	1
HWL-22	DRN-01	WB 190	2996+48	-98.50	628.30	1
HWL-23	DRN-01	WB 190	2996+58	-98.50	628.30	1
HWL-24	DRN-01	WB 190	2998+28	-96.10	629.20	1
HWL-25	DRN-01	WB 190	2998+38	-95.50	629.30	1
TOTAL						6

DRN-15

exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = mamiller	DESIGNED HDU	REVISED - 06/01/2018 - MAM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PROPOSED DRAINAGE SCHEDULE	F.A.I. R.T.E. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 248			
	PLOT SCALE = 2.0000' / in.	CHECKED SH	REVISED -			SCALE:	SHEET NO. 15 OF 20 SHEETS	STA. TO STA.	CONTRACT NO. 60Y39				
	PLOT DATE = 5/31/2018	DATE 01/19/2018	REVISED -			ILLINOIS FED. AID PROJECT							
	REV. 6/4/18												

STORM SEWER SCHEDULE								
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CUYD)	SHEET NO.	FROM STRUCTURE	TO STRUCTURE
100	STORM SEWERS JKD 48	DIA 48"	90	0.10	0.0	DRN-5	100	101
1050	STORM SEW CL A 1 12	DIA 12"	197	0.26	78.9	DRN-5	ES	ES
3000	STORM SEW CL A 2 15	DIA 15"	4	0.50	0.0	DRN-1	EP	3000
3002	STORM SEW CL A 2 15	DIA 15"	4	0.50	0.0	DRN-1	EP	3002
3004	STORM SEW CL A 2 15	DIA 15"	8	0.50	0.0	DRN-1	EP	3004
7000	STORM SEWERS JKD 60	DIA 60"	159	0.13	0.0	DRN-4	7000	P
7001	STORM SEW CL A 3 60	DIA 60"	183	0.13	0.0	DRN-4	7001	7000
7002	STORM SEWERS JKD 60	DIA 60"	209	0.30	0.0	DRN-6	7002	7001
7003	STORM SEW CL A 2 60	DIA 60"	186	0.13	0.0	DRN-1	7003	7002
7004	STORM SEW CL A 3 60	DIA 60"	218	0.13	0.0	DRN-1	7004	7003
7005	STORM SEW CL A 3 60	DIA 60"	176	0.13	0.0	DRN-1	7005	7004
7006	STORM SEWERS JKD 60	DIA 60"	62	0.13	0.0	DRN-1	7006	P
7007	STORM SEW CL A 3 60	DIA 60"	233	0.13	0.0	DRN-1	7007	7006
7008	STORM SEW CL A 2 60	DIA 60"	91	0.13	0.0	DRN-1	7008	7108
7009	STORM SEW CL A 3 60	DIA 60"	332	0.13	0.0	DRN-2	7009	7008
7010	STORM SEW CL A 3 60	DIA 60"	89	0.13	0.0	DRN-2	7010	7009
7011	STORM SEW CL A 3 60	DIA 60"	29	0.13	0.0	DRN-1	7011	7029
7012	STORM SEW CL A 3 60	DIA 60"	127	0.13	0.0	DRN-1	7012	7028
7013	STORM SEW CL A 2 60	DIA 60"	240	0.19	0.0	DRN-2	7013	7012
7014	STORM SEW CL A 2 60	DIA 60"	349	0.13	0.0	DRN-2	7014	7013
7015	STORM SEW CL A 3 60	DIA 60"	241	0.13	799.1	DRN-2	7015	7014
7016	STORM SEW CL A 2 60	DIA 60"	240	0.13	764.6	DRN-2	7016	7015
7017	STORM SEW CL A 2 60	DIA 60"	251	0.13	0.0	DRN-2	7017	7016
7018	STORM SEW CL A 2 60	DIA 60"	92	0.13	0.0	DRN-2	7018	7017
7019	STORM SEW CL A 2 60	DIA 60"	46	0.13	140.7	DRN-2	7019	7018
7020	STORM SEW CL A 3 60	DIA 60"	146	0.13	507.0	DRN-2	7020	7019
7021	STORM SEW CL A 2 60	DIA 60"	211	0.13	635.5	DRN-2	7021	7020
7022	STORM SEW CL A 2 60	DIA 60"	55	0.13	161.6	DRN-2	7022	7021
7023	STORM SEW CL A 2 48	DIA 48"	203	0.13	449.8	DRN-2	7023	7022
7024	STORM SEW CL A 1 48	DIA 48"	36	0.11	9.5	DRN-2	7024	8050
7025	STORM SEW CL A 1 48	DIA 48"	108	0.10	86.0	DRN-2	7025	7024
7026	STORM SEW CL A 1 48	DIA 48"	106	0.10	83.8	DRN-2	7026	7025
7027	STORM SEW CL A 2 48	DIA 48"	145	0.07	129.4	DRN-2	7027	7026
7028	STORM SEW CL A 3 60	DIA 60"	93	0.13	0.0	DRN-1	7028	7011
7029	STORM SEW CL A 3 60	DIA 60"	221	0.13	0.0	DRN-2	7029	7010
7030	STORM SEW CL A 2 48	DIA 48"	163	0.11	211.6	DRN-3	7030	7084
7031	STORM SEW CL A 2 36	DIA 36"	243	0.55	281.5	DRN-3	7031	7030
7032	STORM SEW CL A 2 36	DIA 36"	42	0.55	40.8	DRN-3	7032	7031
7033	STORM SEW CL A 2 36	DIA 36"	143	0.55	104.6	DRN-3	7033	7085
7034	STORM SEW CL A 1 18	DIA 18"	38	7.49	0.0	DRN-3	7034	7035
7035	STORM SEW CL A 1 18	DIA 18"	40	2.13	0.0	DRN-3	7035	7033
7037	STORM SEW CL A 1 18	DIA 18"	40	0.42	0.0	DRN-3	9042	7036
7040	STORM SEW CL A 3 60	DIA 60"	21	0.12	0.0	DRN-1	P	7005
7041	STORM SEW CL A 3 60	DIA 60"	52	0.13	0.0	DRN-6	P	7038
7051	STORM SEW CL A 3 48	DIA 48"	243	0.10	875.7	DRN-5	7051	7080
7052	STORM SEW CL A 2 48	DIA 48"	238	0.10	697.3	DRN-5	7052	7051
7053	STORM SEW CL A 2 48	DIA 48"	93	0.10	238.0	DRN-5	7053	7052
7054	STORM SEW CL A 2 48	DIA 48"	192	0.10	448.7	DRN-4	7054	7053
7055	STORM SEW CL A 2 48	DIA 48"	245	0.10	639.7	DRN-4	7055	7054
7056	STORM SEW WM REQ 48	DIA 48"	45	0.10	0.0	DRN-4	7056	7092
7057	STORM SEW CL A 3 48	DIA 48"	219	0.10	781.6	DRN-4	7057	7056
7058	STORM SEW CL A 3 48	DIA 48"	23	0.10	83.6	DRN-4	7058	7057
7059	STORM SEW CL A 3 48	DIA 48"	33	0.10	113.9	DRN-4	7059	7058
7060	STORM SEW CL A 3 48	DIA 48"	305	0.10	953.3	DRN-4	7060	7059
7061	STORM SEW CL A 2 48	DIA 48"	243	0.10	605.3	DRN-4	7061	7060
7062	STORM SEW CL A 2 48	DIA 48"	243	0.10	467.5	DRN-4	7062	7061
7063	STORM SEW CL A 2 48	DIA 48"	228	0.10	338.6	DRN-4	7063	7062
7064	STORM SEW CL A 2 48	DIA 48"	181	0.10	198.6	DRN-4	7064	7068
7065	STORM SEW CL A 2 48	DIA 48"	177	0.10	186.3	DRN-4	7065	7064
7066	STORM SEW CL A 2 48	DIA 48"	143	1.52	164.3	DRN-4	7066	7065
7067	STORM SEW CL A 2 48	DIA 48"	153	1.50	170.7	DRN-3	7067	7066
7068	STORM SEW CL A 2 48	DIA 48"	22	0.10	27.3	DRN-4	7068	7063
7080	STORM SEW CL A 3 48	DIA 48"	135	0.10	571.5	DRN-5	7080	7081
7081	STORM SEW CL A 3 48	DIA 48"	41	0.11	183.8	DRN-5	7081	7086
7083	STORM SEW CL A 2 48	DIA 48"	129	0.10	0.0	DRN-2	7083	7027
7084	STORM SEW CL A 2 48	DIA 48"	53	0.08	50.1	DRN-2	7084	7083
7085	STORM SEW CL A 2 36	DIA 36"	80	0.55	62.1	DRN-3	7085	7032
7086	STORM SEW CL A 3 48	DIA 48"	114	0.10	513.1	DRN-5	7086	100
7090	STORM SEW CL A 3 48	DIA 48"	140	0.10	441.2	DRN-4	7090	7055
7091	STORM SEW CL A 3 48	DIA 48"	16	0.10	68.7	DRN-4	7094	7090
7108	STORM SEW CL A 2 60	DIA 60"	205	0.13	0.0	DRN-1	7108	7007
8049	STORM SEW CL A 2 36	DIA 36"	48	0.52	97.7	DRN-2	8049	7023
8051	STORM SEW CL A 2 24	DIA 24"	30	0.89	0.0	DRN-2	8051	7020

ES = EXISTING STRUCTURE
EP = EXISTING PIPE
P = CONNECT DIRECTLY TO PROPOSED PIPE END, REFER TO PLAN SHEETS

STORM SEWER SCHEDULE										
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CUYD)	SHEET NO.	FROM STRUCTURE	TO STRUCTURE		
8052	STORM SEW CL A 2 18	DIA 18"	4	1.14	0.0	DRN-2	8052	7018		
8053	STORM SEW CL A 2 18	DIA 18"	15	3.39	0.0	DRN-2	8053	7084		
8055	STORM SEW CL A 2 18	DIA 18"	25	0.50	0.0	DRN-2	8055	7027		
8056	STORM SEW CL A 1 21	DIA 21"	69	0.50	0.0	DRN-1	8056	8063		
8057	STORM SEW CL A 2 21	DIA 21"	24	0.86	0.0	DRN-2	8057	7010		
8059	STORM SEW CL A 2 48	DIA 48"	23	0.15	0.0	DRN-2	8059	8060		
8060	STORM SEW CL A 2 48	DIA 48"	9	0.15	16.6	DRN-2	8060	7023		
8061	STORM SEW CL A 1 21	DIA 21"	3	0.60	0.0	DRN-1	8061	7028		
8062	STORM SEW CL A 1 18	DIA 18"	24	3.21	0.0	DRN-2	8062	7013		
8063	STORM SEW CL A 1 21	DIA 21"	53	0.50	0.0	DRN-1	8063	8061		
8064	STORM SEW CL A 1 15	DIA 15"	4	1.14	0.0	DRN-2	8064	7016		
8065	STORM SEW CL A 2 24	DIA 24"	7	0.75	0.0	DRN-3	8065	7085		
8100	STORM SEW CL A 2 15	DIA 15"	181	0.50	0.0	DRN-6	8100	8101		
8101	STORM SEW CL A 2 24	DIA 24"	187	0.17	0.0	DRN-6	8101	8102		
8102	STORM SEW CL A 2 24	DIA 24"	20	0.17	9.4	DRN-2	8102	8103		
8103	STORM SEW CL A 2 24	DIA 24"	20	0.17	9.6	DRN-2	8103	8104		
8104	STORM SEW CL A 2 30	DIA 30"	27	0.15	21.1	DRN-2	8104	7083		
8200	STORM SEW CL A 2 15	DIA 15"	11	1.68	8.9	DRN-6	8200	8101		
9000	STORM SEW CL A 2 15	DIA 15"	51	1.01	16.9	DRN-2	9000	7009		
9001	STORM SEW CL A 2 15	DIA 15"	3	1.00	1.2	DRN-2	9001	9000		
9002	STORM SEW CL A 1 15	DIA 15"	46	1.02	11.8	DRN-1	9002	7011		
9003	STORM SEW CL A 1 15	DIA 15"	3	1.00	0.8	DRN-1	9003	9002		
9004	STORM SEW CL A 2 15	DIA 15"	46	1.01	12.1	DRN-1	9004	7012		
9005	STORM SEW CL A 1 15	DIA 15"	3	1.00	0.8	DRN-1	9005	9004		
9006	STORM SEW CL A 2 15	DIA 15"	84	1.00	26.5	DRN-2	9008	9006		
9007	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9007	9006		
9008	STORM SEW CL A 2 15	DIA 15"	16	1.00	6.0	DRN-2	9010	9008		
9009	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9009	9008		
9010	STORM SEW CL A 2 18	DIA 18"	46	1.02	21.1	DRN-2	9006	7013		
9011	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9011	9010		
9012	STORM SEW CL A 2 15	DIA 15"	48	1.01	13.9	DRN-2	9012	7014		
9013	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9013	9012		
9014	STORM SEW CL A 2 15	DIA 15"	53	1.01	15.0	DRN-2	9014	7015		
9015	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9015	9014		
9016	STORM SEW CL A 2 15	DIA 15"	66	1.01	27.9	DRN-2	9016	7016		
9017	STORM SEW CL A 2 15	DIA 15"	3	1.00	2.4	DRN-2	9017	9016		
9018	STORM SEW CL A 2 15	DIA 15"	32	1.11	8.7	DRN-2	9018	7020		
9019	STORM SEW CL A 2 15	DIA 15"	10	0.29	2.8	DRN-2	9019	9018		
9020	STORM SEW CL A 2 15	DIA 15"	40	1.01	11.2	DRN-2	9020	7021		
9021	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-2	9021	9020		
9022	STORM SEW CL A 2 15	DIA 15"	37	1.01	12.2	DRN-2	9022	7023		
9023	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-2	9023	9022		
9024	STORM SEW CL A 2 15	DIA 15"	14	1.07	4.6	DRN-2	9024	9026		
9025	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-2	9025	9024		
9026	STORM SEW CL A 2 15	DIA 15"	28	1.38	10.3	DRN-2	9026	7025		
9027	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-2	9027	9026		
9028	STORM SEW CL A 2 15	DIA 15"	28	1.36	21.1	DRN-2	9028	7026		
9029	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-2	9029	9028		
9030	STORM SEW CL A 2 15	DIA 15"	246	1.00	96.4	DRN-2	9030	9028		
9031	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-2	9031	9030		
9032	STORM SEW CL A 2 15	DIA 15"	31	1.05	10.2	DRN-3	9032	7030		
9033	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.9	DRN-3	9033	9032		
9034	STORM SEW CL A 2 15	DIA 15"	31	1.05	9.8	DRN-3	9034	7031		
9035	STORM SEW CL A 2 15	DIA 15"	3	1.00	0.8	DRN-3	9035	9034		
9036	STORM SEW CL A 1 18	DIA 18"	56	2.25	20.2	DRN-3	9036	7033		
9037	STORM SEW CL A 1 15	DIA 15"	3	0.50	0.8	DRN-3	9037	9036		
9038	STORM SEW CL A 1 18	DIA 18"	246	1.00	79.8	DRN-3	9038	9036		
9039	STORM SEW CL A 2 15	DIA 15"	3	0.55	0.8	DRN-3	9039	9038		
9040	STORM SEW CL A 1 18	DIA 18"	196	0.55	49.2	DRN-3	9040	9038		
9041	STORM SEW CL A 2 15	DIA 15"	4							

STORM SEWER SCHEDULE								
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CUYD)	SHEET NO.	FROM STRUCTURE	TO STRUCTURE
9111	STORM SEW CL A 2 15	DIA 15"	131	1.85	42.9	DRN-4	9111	9110
9112	STORM SEW CL A 2 15	DIA 15"	96	2.86	31.0	DRN-4	9112	9111
9113	STORM SEW CL A 2 15	DIA 15"	146	2.75	48.2	DRN-5	9113	9112
9114	STORM SEW CL A 2 12	DIA 12"	17	1.00	4.3	DRN-5	9114	9113
9115	STORM SEW CL A 1 12	DIA 12"	17	1.00	4.3	DRN-4	9115	9111
9116	STORM SEW CL A 2 12	DIA 12"	16	0.94	4.3	DRN-4	9116	9110
9117	STORM SEW CL A 1 12	DIA 12"	16	1.35	3.6	DRN-4	9117	9135
9118	STORM SEW CL A 1 12	DIA 12"	6	28.54	0.8	DRN-4	9118	7059
9119	STORM SEWER SPEC 8	DIA 8"	4	21.23	0.4	DRN-4	9119	7060
9120	STORM SEW CL A 1 12	DIA 12"	4	53.23	0.4	DRN-4	9120	7061
9121	STORM SEW CL A 2 15	DIA 15"	3	0.83	2.0	DRN-4	9121	7062
9122	STORM SEW CL A 2 15	DIA 15"	112	1.00	40.4	DRN-4	9122	9121
9123	STORM SEW CL A 2 15	DIA 15"	2	3.49	0.5	DRN-4	9123	7064
9124	STORM SEW CL A 2 15	DIA 15"	12	1.07	3.3	DRN-4	9124	9134
9125	STORM SEW CL A 2 15	DIA 15"	3	0.76	0.7	DRN-4	9125	7065
9126	STORM SEW CL A 2 15	DIA 15"	3	0.84	0.8	DRN-4	9126	7066
9127	STORM SEW CL A 2 18	DIA 18"	3	1.76	0.8	DRN-3	9127	7067
9128	STORM SEW CL A 2 18	DIA 18"	137	1.00	46.0	DRN-3	9128	9127
9129	STORM SEW CL A 2 15	DIA 15"	88	1.00	28.4	DRN-3	9129	9132
9130	STORM SEW CL A 2 15	DIA 15"	199	1.00	58.1	DRN-3	9130	9129
9131	STORM SEW CL A 2 12	DIA 12"	8	3.37	2.2	DRN-4	9131	9123
9132	STORM SEW CL A 2 15	DIA 15"	105	1.00	31.2	DRN-3	9132	9128
9134	STORM SEW CL A 2 15	DIA 15"	11	1.10	3.1	DRN-4	9134	9123
9135	STORM SEW CL A 2 15	DIA 15"	44	1.00	16.2	DRN-4	9135	7057
9150	STORM SEW CL A 2 15	DIA 15"	3	0.82	1.0	DRN-5	9150	7080
9151	STORM SEW CL A 2 24	DIA 24"	170	0.17	256.3	DRN-5	9151	100
9152	STORM SEW CL A 2 21	DIA 21"	246	0.26	262.1	DRN-4	9152	9151
9153	STORM SEW CL A 2 15	DIA 15"	196	0.25	61.7	DRN-4	9153	9152
9154	STORM SEW CL A 1 15	DIA 15"	44	0.25	5.8	DRN-4	9154	9153
9155	STORM SEW CL A 1 12	DIA 12"	4	0.44	0.4	DRN-4	9155	9154
9156	STORM SEW CL A 1 12	DIA 12"	20	0.44	2.8	DRN-4	9156	9154
9158	STORM SEW CL A 1 15	DIA 15"	5	1.11	1.3	DRN-5	9158	7081
9159	STORM SEW CL A 1 15	DIA 15"	4	1.13	1.1	DRN-5	9159	7086
9160	STORM SEW CL A 1 12	DIA 12"	2	1.00	0.7	DRN-4	9210	9110
9161	STORM SEW CL A 1 12	DIA 12"	2	1.00	0.9	DRN-4	9223	9123
9162	STORM SEW CL A 1 12	DIA 12"	2	1.39	0.9	DRN-4	9263	7063
9163	STORM SEW CL A 1 12	DIA 12"	4	1.00	1.0	DRN-5	9286	9159
9200	STORM SEW CL A 2 12	DIA 12"	6	0.52	1.5	DRN-2	9200	7026
9201	STORM SEW CL A 2 12	DIA 12"	3	0.65	0.8	DRN-2	9201	7025
9202	STORM SEW CL A 2 12	DIA 12"	7	0.44	1.7	DRN-2	9202	9201
9203	STORM SEW CL A 2 12	DIA 12"	7	0.44	1.7	DRN-2	9203	9201
9204	STORM SEW CL A 1 12	DIA 12"	2	1.00	1.7	DRN-4	9204	9104
9205	STORM SEW CL A 1 12	DIA 12"	35	1.00	12.9	DRN-5	9205	9150
9207	STORM SEW CL A 1 12	DIA 12"	2	2.00	1.8	DRN-4	9207	9107
9208	STORM SEW CL A 1 12	DIA 12"	73	1.00	30.0	DRN-4	9208	9207

PIPE UNDERDRAINS 6" (SPECIAL)									
PIPE NO.	DRAWING NO.	ALIGNMENT	FROM STA.	FROM OFFSET	FROM STR.	TO STA.	TO OFFSET	TO STR.	LENGTH (FT)
PUD-20A	DRN-01	WB 190	2993+88	-82.34	-	2993+88	-90.24	HWL-20	8
PUD-21A	DRN-01	WB 190	2993+98	-82.32	-	2993+98	-90.02	HWL-21	8
PUD-22A	DRN-01	WB 190	2996+48	-88.57	-	2996+48	-98.57	HWL-22	10
PUD-23A	DRN-01	WB 190	2996+58	-88.55	-	2996+58	-98.55	HWL-23	10
PUD-24A	DRN-01	WB 190	2998+28	-94.65	-	2998+28	-96.10	HWL-24	2
PUD-25A	DRN-01	WB 190	2998+38	-94.64	-	2998+38	-95.64	HWL-25	1
TOTAL									39

FOR CONCRETE HEADWALL FOR PIPE DRAINS SCHEDULE, SEE SHEET DRN-15

PIPE UNDERDRAINS, TYPE 2, 4"										
PIPE NO.	DRAWING NO.	ALIGNMENT	FROM STA.	FROM OFFSET	FROM STR.	TO STA.	TO OFFSET	TO STR.	LENGTH (FT)	
PUD-1	DRN-01	WB 190	1009+42	0.50	-	1011+37	0.50	-	195	
PUD-2	DRN-01	WB 190	1005+41	0.50	-	1009+34	0.50	-	392	
PUD-3	DRN-01	WB 190	1001+74	0.50	-	1005+36	0.50	-	362	
PUD-4	DRN-01	WB 190 / WBCD	1001+68	0.50	-	50+30	36.50	-	406	
PUD-5	DRN-02	WB CD	50+24	36.50	-	46+64	39.86	-	361	
PUD-6	DRN-02	RAMP D	916+03	0.50	-	920+74	0.50	-	471	
PUD-7	DRN-02	RAMP D	912+48	0.50	-	915+97	0.50	-	349	
PUD-8	DRN-02	WB CD	38+31	36.50	-	35+27	36.50	7019	304	
PUD-9	DRN-02	WB CD	30+06	36.50	-	31+48	40.50	7021	142	
PUD-10	DRN-02	WB CD	20+88	24.50	-	22+73	30.23	7084	185	
PUD-11	DRN-03	WB CD	18+38	24.50	-	20+83	30.23	7030	245	
PUD-12	DRN-03	WB CD	16+11	24.50	-	18+33	30.23	7031	222	
PUD-13	DRN-03	RAMP C	700+03	0.50	-	703+73	10.80	7033	372	
PUD-14	DRN-03	WB CD	8+20	24.50	-	12+09	24.50	-	391	
PUD-15	DRN-03	WB CD	6+41	24.50	-	8+12	32.00	9042	173	
PUD-16	DRN-03	WB CD	3+43	24.50	-	6+49	34.67	9044	308	
TOTAL									4878	

PIPE UNDERDRAINS, FABRIC LINED TRENCH 6"										
PIPE NO.	DRAWING NO.	ALIGNMENT	FROM STA.	FROM OFFSET	FROM STR.	TO STA.	TO OFFSET	TO STR.	LENGTH (FT)	
PUD-21	DRN-01	WB 190	2996+48	-79.45	-	2993+98	-74.13	-	246	
PUD-23	DRN-01	WB 190	2998+28	-82.52	-	2996+58	-79.64	-	167	
PUD-25	DRN-01	WB 190	3002+02	-83.50	-	2998+38	-82.68	-	162	
TOTAL									575	

PIPE UNDERDRAINS 4" (SPECIAL)										
PIPE NO.	DRAWING NO.	ALIGNMENT	FROM STA.	FROM OFFSET	FROM STR.	TO STA.	TO OFFSET	TO STR.	LENGTH (FT)	
PUD-1A	DRN-01	WB 190	1011+40	3.47	-	1011+40	18.12	HWL-1	15	
PUD-2A	DRN-01	WB 190	1009+37	3.52	-	1009+37	13.69	HWL-2	14	
PUD-3A	DRN-01	WB 190	1005+39	3.53	-	1005+39	14.85	HWL-3	15	
PUD-4A	DRN-01	WB CD	50+27	39.48	-	50+27	59.41	HWL-4	22	
PUD-5A	DRN-02	WB CD	46+61	42.92	-	46+61	65.19	HWL-5	25	
PUD-6A	DRN-02	WB CD	46+60	42.93	-	46+60	65.19	HWL-5	25	
PUD-7A	DRN-02	RAMP D	916+00	3.42	-	916+01	29.32	HWL-7	29	
PUD-14A	DRN-03	WB CD	12+12	27.65	-	12+11	40.48	HWL-14	15	
TOTAL									160	

FOR CONCRETE HEADWALL FOR PIPE DRAINS SCHEDULE, SEE SHEET DRN-15

TEMPORARY STORM SEWER SCHEDULE										
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CUYD)	SHEET NO.	FROM STRUCTURE	TO STRUCTURE		
TP1	TEMPORARY STORM SEWER 12"	DIA 12"	40	0.5	0	MOT-PA-5	TS1	TS1H		
TP2	TEMPORARY STORM SEWER 12"	DIA 12"	95	0.5	0	MOT-PA-5	TS2	TS3		
TP3	TEMPORARY STORM SEWER 12"	DIA 12"	95	0.5	0	MOT-PA-5	TS3	TS5		
TP4	TEMPORARY STORM SEWER 12"	DIA 12"	95	0.5	0	MOT-PA-5	TS4	TS5		
TP5	TEMPORARY STORM SEWER 15"	DIA 15"	130	0.5	0	MOT-PA-5	TS5	TS5H		
TP6	TEMPORARY STORM SEWER 12"	DIA 12"	39	0.5	0	MOT-PA-5	TS6	TS2		
TP7	TEMPORARY STORM SEWER 12"	DIA 12"	9	0.5	0	MOT-PA-11	TS7	**		
TP8	TEMPORARY STORM SEWER 12"	DIA 12"	13	0.5	0	MOT-PA-11	TS8	**		
TP9	TEMPORARY STORM SEWER 12"	DIA 12"	12	0.5	0	MOT-PA-11	TS9	**		
TP10	TEMPORARY STORM SEWER 12"	DIA 12"	8	0.5	0	MOT-PA-11	TS10	**		

TEMPORARY DRAINAGE STRUCTURE SCHEDULE																		
STRUCTURE NO.	STRUCTURE DESCRIPTION	CENTERLINE					PROPOSED RIM ELEVATION	INVERTS				PIPE CONNECTIONS (Pipe No. - Pipe Size)				SHEET NO.	STRUCTURE TOP	DESCRIPTION
		ALIGNMENT	STATION	OFFSET	DIR.			NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST			
TS1	TEMPORARY INLET	TEMPORARY RAMP CC	4+50	8.00	RT	638.06	636.45	--	--	--	TP1 - 12"	--	--	--	MOT-PA-5	--	TYPE 20 FRAME AND GRATE	
TS2	TEMPORARY CATCH BASIN	TEMPORARY RAMP CC	6+50	11.60	RT	634.62	632.75	--	632.72	--	TP6 - 12"	--	TP2 - 12"	--	MOT-PA-5	FLAT	TYPE 8 GRATE	
TS3	TEMPORARY CATCH BASIN	TEMPORARY RAMP CC	7+50	12.00	RT	634.88	--	--	632.23	632.25	--	--	TP3 - 12"	TP2 - 12"	MOT-PA-5	FLAT	TYPE 8 GRATE	
TS4	TEMPORARY INLET	TEMPORARY RAMP CC	9+50	9.84	RT	635.74	633.23	--	--	--	TP4 - 12"	--	--	--	MOT-PA-5	--	TYPE 8 GRATE	
TS5	TEMPORARY CATCH BASIN	TEMPORARY RAMP CC	8+50	11.63	RT	635.31	631.75	632.75	--	631.75	TP3 - 12"	TP4 - 12"	--	TP5 - 15"	MOT-PA-5	FLAT	TYPE 8 GRATE	
TS6	TEMPORARY INLET	TEMPORARY RAMP CC	6+50	27.00	LT	636.42	--	632.95	--	--	--	TP6 - 12"	--	--	MOT-PA-5	--	TYPE 8 GRATE	
TS1H	TEMPORARY END SECTION	TEMPORARY RAMP CC	4+50	32.00	LT	--	--	636.25	--	--	--	TP1 - 12"	--	--	MOT-PA-5	--	12" END SECTION	
TS5H	TEMPORARY END SECTION	TEMPORARY RAMP CC	8+50	132.72	RT	--	--	--	631.5	--	--	--	TP5 - 15"	--	MOT-PA-5	--	15" END SECTION	
TS7	TEMPORARY CATCH BASIN	HARLEM RAMP D	103+79	11.91	RT	639.99	*	635.58	--	--	*	TP7 - 12"	--	--	MOT-PA-11	FLAT	TYPE 23 FRAME AND GRATE	
TS8	TEMPORARY CATCH BASIN	HARLEM RAMP D	105+51	11.52	RT	636.67	*	633.28	--	--	*	TP8 - 12"	--	--	MOT-PA-11	FLAT	TYPE 23 FRAME AND GRATE	
TS9	TEMPORARY INLET	HARLEM RAMP D	107+75	13.48	RT	638.85	--	634.65	--	--	--	TP9 - 12"	--	--	MOT-PA-11	--	TYPE 23 FRAME AND GRATE	
TS10	TEMPORARY INLET	HARLEM RAMP D	109+85	13.75	RT	641.26	--	637.67	--	--	--	TP10 - 12"	--	--	MOT-PA-11	--	TYPE 23 FRAME AND GRATE	

TEMPORARY DRAINAGE STRUCTURE SCHEDULES - SEE SHEET MOT-PA-5 AND MOT-PA-11 FOR PLAN

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

USER NAME = mamiller	DESIGNED HDU	REVISED - 06/01/2018 - MAM
	DRAWN HDU	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED SH	REVISED -
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISED -

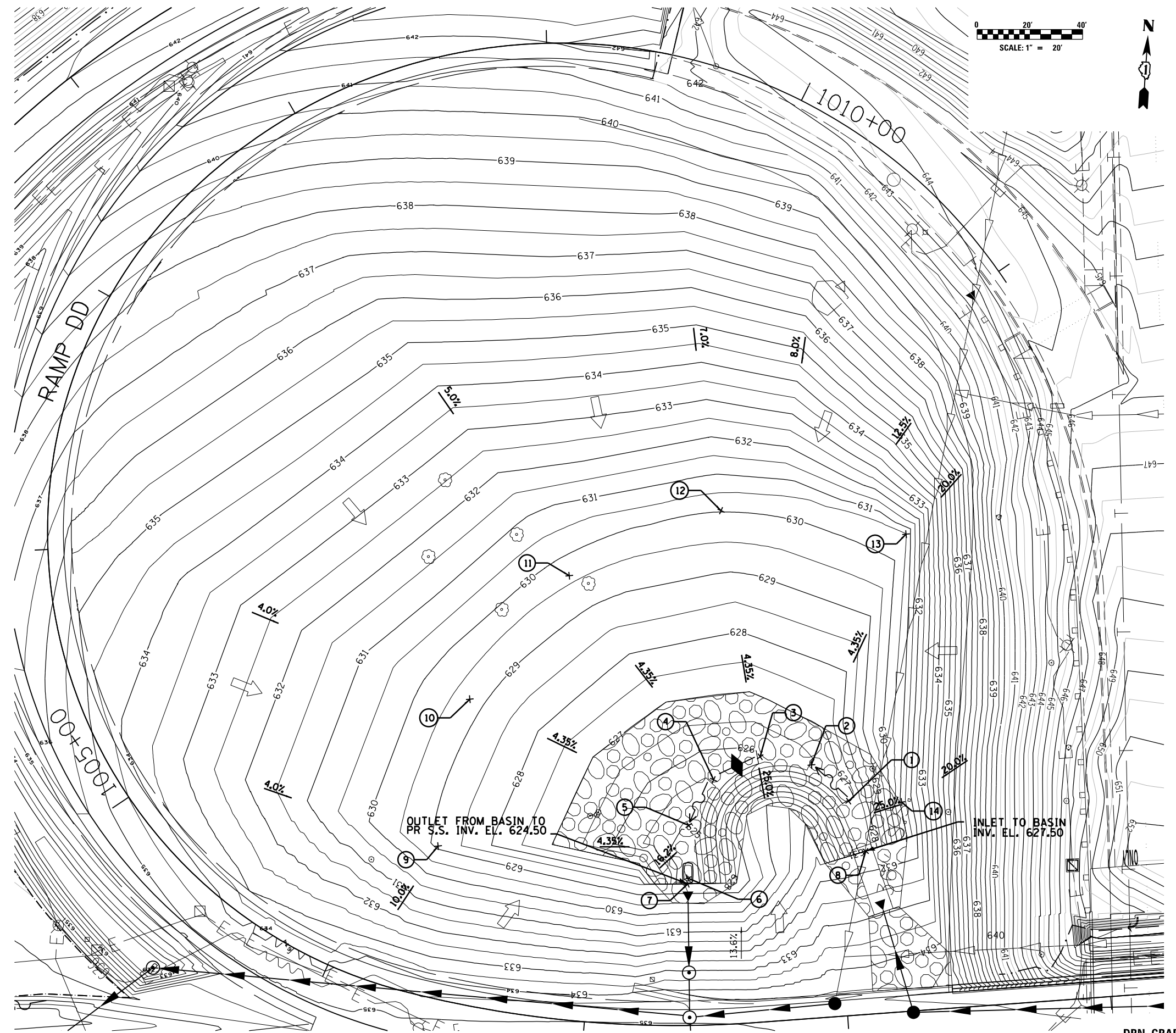
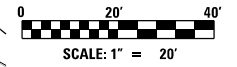
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED DRAINAGE SCHEDULE

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 250
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

INFIELD PROPOSED ELEVATIONS

POINT	N	E	ELEVATION
1	1937482.54	1119146.80	627.01
2	1937496.35	1119132.77	626.52
3	1937499.52	1119113.34	626.03
4	1937490.90	1119095.64	625.53
5	1937473.64	1119086.17	625.04
6	1937453.69	1119085.67	624.55
7	1937451.49	1119085.68	628.50
8	1937463.51	1119153.17	631.50
9	1937466.34	1118991.06	628.88
10	1937521.96	1119003.39	629.24
11	1937568.57	1119041.33	629.62
12	1937592.93	1119099.00	630.02
13	1937583.66	1119169.10	630.47
14	1937482.10	1119166.88	631.16



INFIELD GRADING PLAN LEGEND

- DIRECTION OF FLOW ARROW 1
- DIRECTION OF FLOW ARROW 2
- SEDIMENT BASIN
- PROPOSED DITCH CHECK
- PROPOSED DITCH FLOW
- EXISTING DITCH FLOW

NOTES:

1. SEE SHEET DRN- FOR DRAINAGE STRUCTURE TABLES.
2. BASIN TO BE PAID FOR AS EARTH EXCAVATION; TOPSOIL FURNISH AND PLACE, 6"; SEEDING, CLASS 4.

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

USER NAME = mamiller
 DESIGNED GS
 DRAWN GS
 CHECKED YO
 DATE 01/19/2018
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 5/30/2018

REVISED - 06/01/2018 - MAM
 REVISED -
 REVISED -
 REVISED -

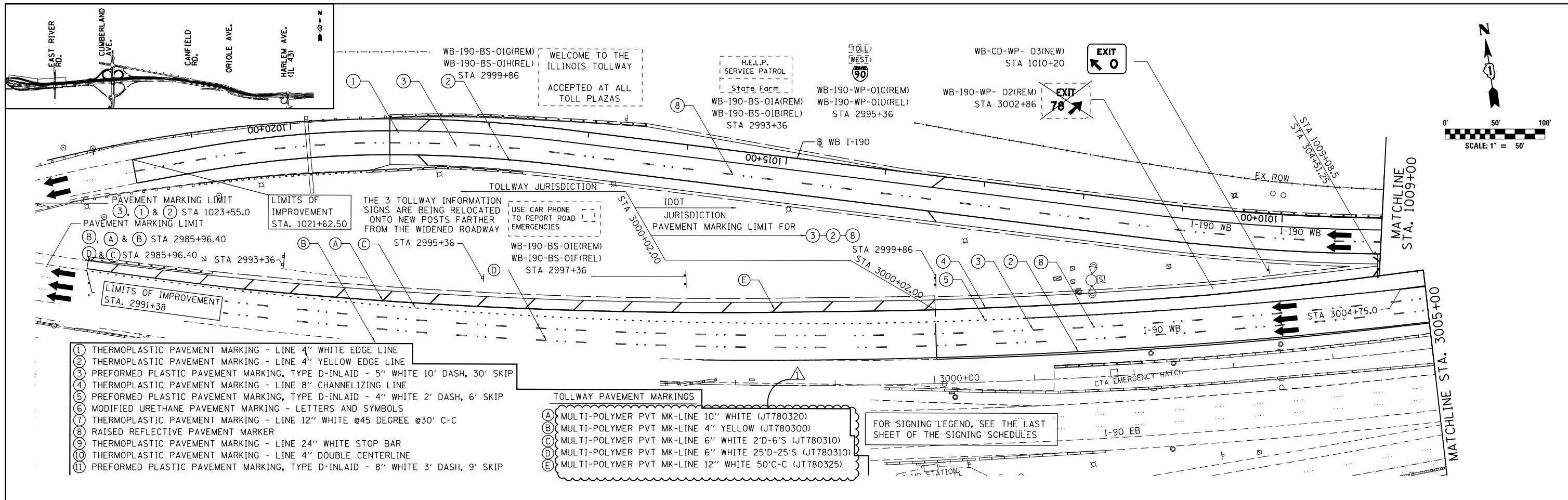
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 RAMP DD INFIELD GRADING PLAN
 BBB**

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

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	253
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

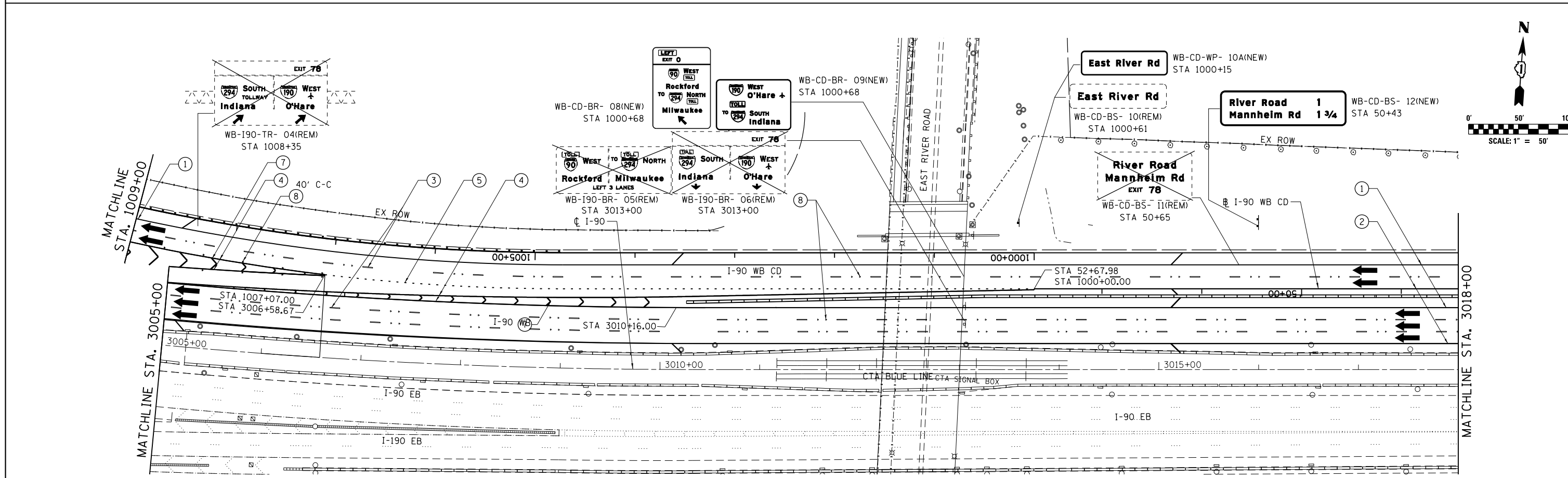
SHEET REVISED REV. 6/4/18



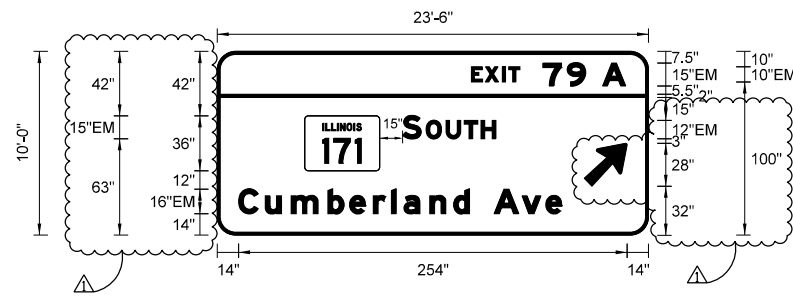
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 5" WHITE 10' DASH, 30' SKIP
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" CHANNELIZING LINE
- ⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 4" WHITE 2' DASH, 6' SKIP
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C
- ⑧ RAISED REFLECTIVE PAVEMENT MARKER
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE CENTERLINE
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 8" WHITE 3' DASH, 9' SKIP

- TOLLWAY PAVEMENT MARKINGS**
- (A) MULTI-POLYMER PVT MK-LINE 10" WHITE (JT780320)
 - (B) MULTI-POLYMER PVT MK-LINE 4" YELLOW (JT780300)
 - (C) MULTI-POLYMER PVT MK-LINE 6" WHITE 2'D-6'S (JT780310)
 - (D) MULTI-POLYMER PVT MK-LINE 6" WHITE 25'D-25'S (JT780310)
 - (E) MULTI-POLYMER PVT MK-LINE 12" WHITE 50'C-C (JT780325)

FOR SIGNING LEGEND, SEE THE LAST SHEET OF THE SIGNING SCHEDULES



AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515 FILE NAME = #FILE#	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = #DATE#	DESIGNED AS DRAWN RV CHECKED AS DATE 01/19/2018	REVISED - 06/01/18 RV REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PAVEMENT MARKING AND SIGNING PLAN	F.A.I. R.T.E. 90 SECTION (1517 & 1415) R-2 COUNTY COOK TOTAL SHEETS 734 SHEET NO. 258 CONTRACT NO. 60Y39
	SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.					ILLINOIS FED. AID PROJECT REV. 6/4/18

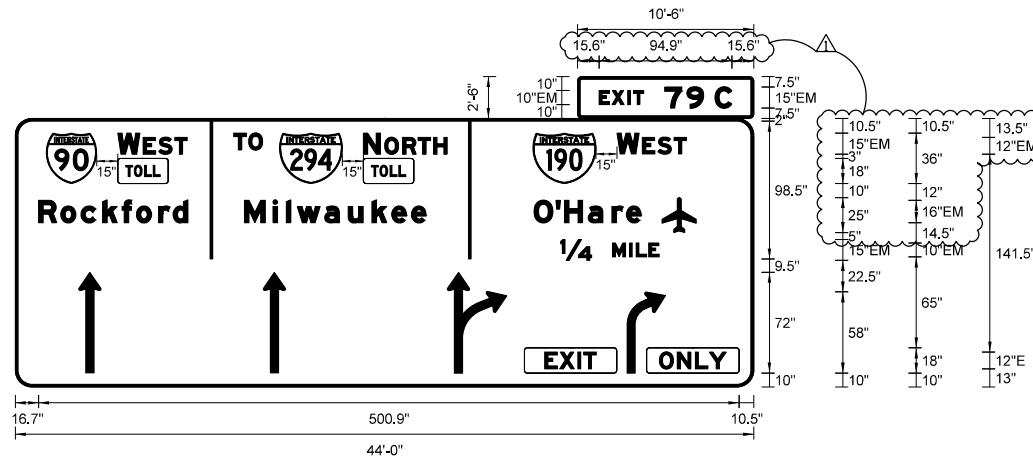
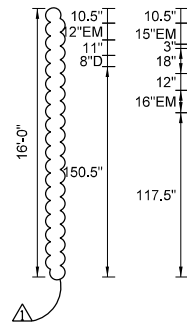


SIGN NUMBER	WB-CD-BR-28A(NEW)
WIDTH x HGHT.	23'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	BRIDGE MOUNTED
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
NI-100A-3-22-100	0	57.1	42	49.1	36
AR_Type A	315	239.9	31.9	22.6	35.6

Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIESIZE			
E	X	I	T	7	9	A								EM 2000			
166.1	9.1	11.2	4.2	7.4	15	15.8	12.2	11	15.2	15				100.9	10,15		
S	O	U	T	H										EM 2000			
121.2	12.2	3.2	13	11.9	11	9.7	99.8							61	15,12		
C	u	m	b	e	r	l	a	n	d	A	v	e		EM 2000			
14	17.4	17	24	14.1	15.5	11.8	8.2	17	15.5	10.6	16	18.2	15.5	10.6	56.7	211.4	1612

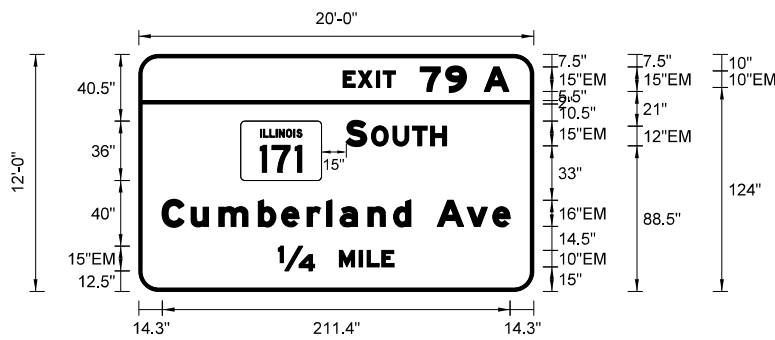


SIGN NUMBER	WB-190-TR-051(NEW)
WIDTH x HGHT.	44'-0" x 16'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	TRUSS MOUNTED
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ
	COLOR: White /Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	22.2	145.5	36	36
M1_1	0	188.9	145.5	45	36
M1_1	0	370.2	145.5	45	36
Airport	0	462.5	110.5	24.5	25
AR_THRU	0	45.4	10	15.9	72
AR_THRU	0	177.3	10	15.9	72
AR_THRU_RIGHT	0	309	10	42.5	72
AR_RIGHT_ONLY	0	437.4	10	27.5	58

Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIESIZE	
E	X	I	T	7	9	C								EM 2000	
15.6	9.1	11.2	4.2	7.4	15	15.7	12.2	8	12.2	15.6				94.9	10,15
T	O													EM 2000	
156.3	10.6	10.1	351.1											20.6	12
W	E	S	T											EM 2000	
73.3	15.9	2.3	11	11.5	8.9	405.1								49.6	15,12
N	O	R	T	H										EM 2000	
248.9	12.2	3	13	11	11	9.7	219.2							59.9	15,12
W	E	S	T											EM 2000	
430.2	15.9	2.3	11	11.5	8.9	48.2								49.6	15,12
T	O	L	L											D 2000	
79	6	7.4	6.2	5	424.5									24.6	8
T	O	L	L											D 2000	
254.6	6	7.4	6.2	5	248.8									24.6	8
R	o	c	k	f	o	r	d							EM 2000	
16.7	15.8	14.4	15.5	13.9	10.2	15.8	10.4	10.6	404.7					106.7	1612
M	i	l	w	a	u	k	e	e						EM 2000	
163.9	20.3	9.6	7.8	19.5	17	17	14.1	14.1	0.6	234.2				129.9	1612
O	'	H	a	r	e									EM 2000	
370.9	15.7	6.1	17	17	10.4	10.6	80.4							76.6	1612
14	M	I	L	E										EM 2000	
390.1	22	15	12.1	4.8	9	7.4	67.6							70.3	15,10
E	X	I	T											EM 2000	
378.7	10.7	12.8	4.2	9	112.7									36.7	12
O	N	L	Y											EM 2000	
480.6	12.8	12.8	10	12.2	19.6									47.9	12

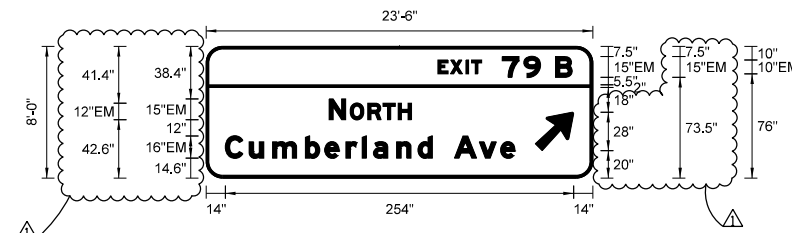


SIGN NUMBER	WB-CD-TR-43B(NEW)
WIDTH x HGHT.	20'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	TRUSS MOUNTED
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
NI-100A-3-22-100	0	62	67.5	49.1	36

Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIESIZE			
E	X	I	T	7	9	A								EM 2000			
124.1	9.1	11.2	4.2	7.4	15	15.8	12.2	11	15.2	15				100.9	10,15		
S	O	U	T	H										EM 2000			
126.1	12.2	3.2	13	11.9	11	9.7	52.9							61	15,12		
C	u	m	b	e	r	l	a	n	d	A	v	e		EM 2000			
14.3	17.4	17	24	14.1	15.5	11.8	8.2	17	15.5	10.6	16	18.2	15.5	10.6	14.3	211.4	1612
H	M	I	L	E										EM 2000			
84.9	22	15	12.1	4.8	9	7.4	84.9							70.3	15,10		



SIGN NUMBER	WB-CD-TR-44B(NEW)
WIDTH x HGHT.	23'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	TRUSS MOUNTED
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	240	20	22.6	35.6

Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIESIZE			
E	X	I	T	7	9	B								EM 2000			
169.1	9.1	11.2	4.2	7.4	15	15.8	12.2	11	12.1	15				97.9	10,15		
N	O	R	T	H										EM 2000			
29.6	12.2	3.2	13	11.9	11	9.7	132.3							60.1	15,12		
C	u	m	b	e	r	l	a	n	d	A	v	e		EM 2000			
14	17.4	17	24	14.1	15.5	11.8	8.2	17	15.5	10.6	16	18.2	15.5	10.6	56.7	211.4	1612

Bench Mark: TBM#22

Chiseled "□" on the top of the concrete barrier wall by light pole EN1 at mile marker 79.72, on the north side of I-90 WB, offset 86.5' Lt. from C I-90 east of the bridge. Elev. 637.48.

Existing Structure: S.N. 016-1250 was built in 2014 as F.A.U. Rte 2746, Section 16168. Existing structure consists of two span continuous steel girder bridge with reinforced concrete deck, supported by concrete abutments founded on piles and concrete wall pier founded on drilled shafts. Scope of work for this project is construction of a new retaining wall under the north span of S.N. 016-1250. Traffic will be maintained utilizing existing I-90 WB lanes during construction.

Notes:

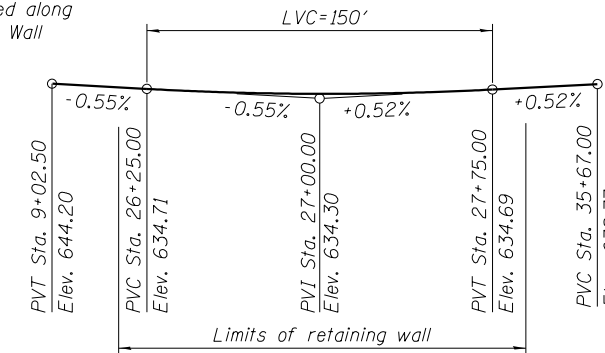
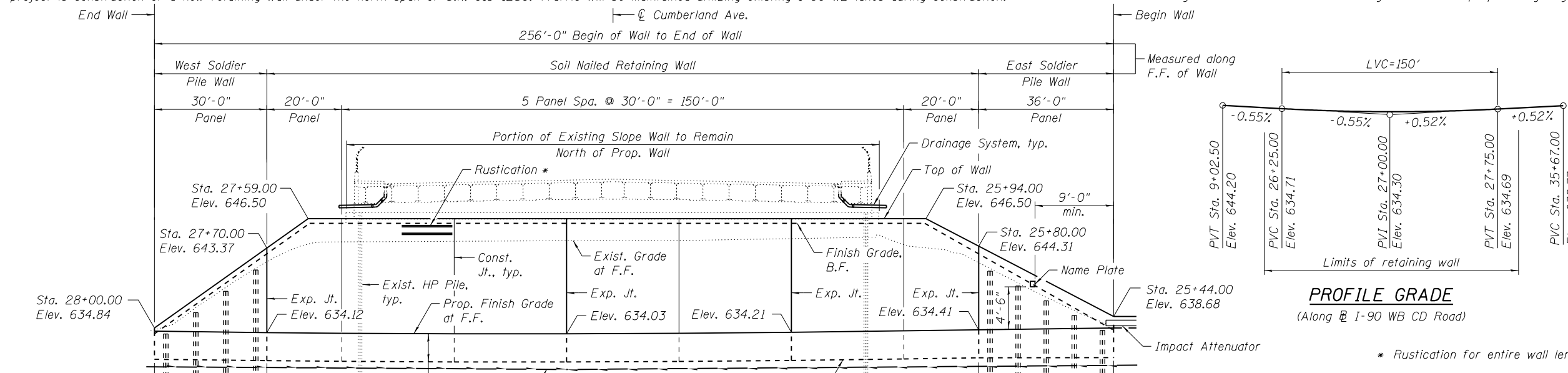
- Offsets are measured from @ I-90 WB CD Road to Front Face of Wall.
- The number and spacing of soil nails, embedment length, anchors, and other design features shall be per Contractor design. Space soil nails to miss existing piles and existing temporary sheet piling left in place from construction of the bridge.
- Provide temporary concrete barrier for the construction of the wall. (See Roadway Plan).
- Contractor shall design and install soil nailed retaining wall to avoid proposed lighting cables.

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50 for soldier pile)

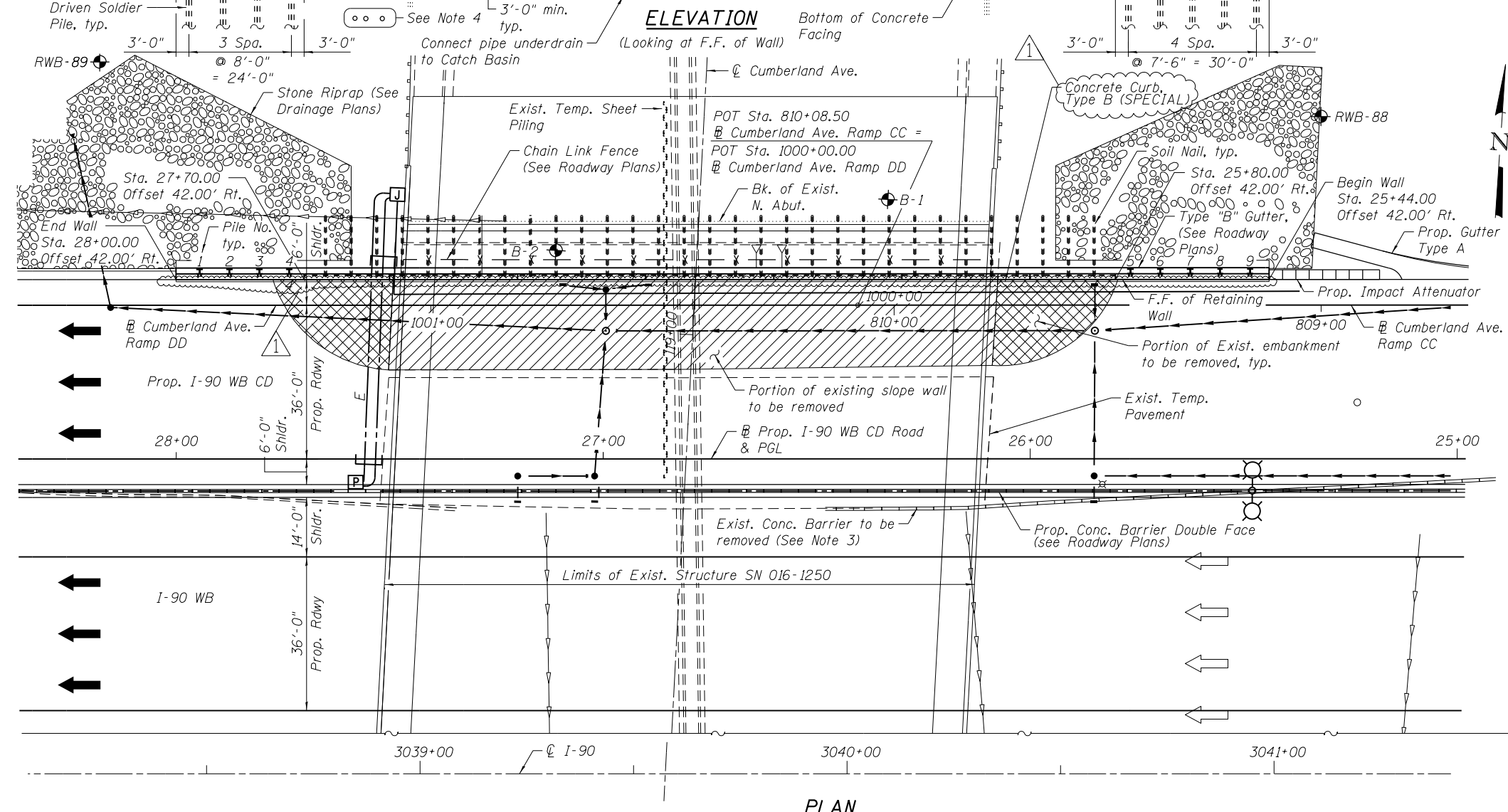
DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions



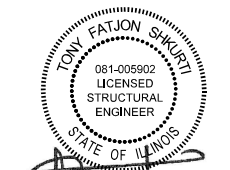
PROFILE GRADE
(Along @ I-90 WB CD Road)

* Rustication for entire wall length

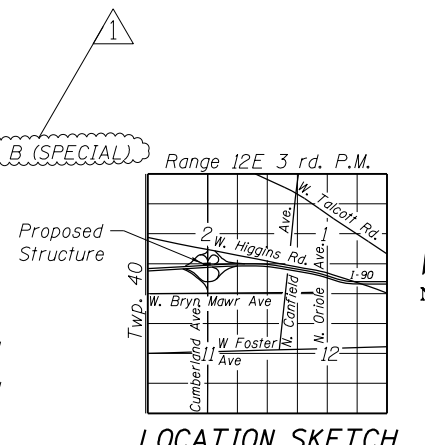


LEGEND:

- | | | |
|----------|----------|--|
| Existing | Proposed | |
| ○ | ○ | Inlet |
| ○ | ● | Catch Basin |
| ○ | ○ | Manhole |
| △ | △ | End Section |
| — | — | Storm Sewer |
| — | — | Pipe Underdrain |
| — | — | Concrete Curb, Type B (SPECIAL) |
| ○ | ○ | Light Pole (location to be determined) |
| ○ | ○ | Boring |
| ← | ← | Direction of Traffic |
| ▨ | ▨ | Slope wall and Embankment Removal |
| ▩ | ▩ | Embankment Removal |
- F.F. - denotes Front Face
B.F. - denotes Back Face
E.F. - denotes Each Face



Signed: *[Signature]*
Date: 1/19/2018
Exp: 11/30/2018
Sheets: S-1 thru S-8



GENERAL PLAN AND ELEVATION
IL RTE 171 (CUMBERLAND AVE.)
OVER INTERSTATE 90 (KENNEDY EXPRESSWAY)
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STATION 25+44.00 TO 28+00.00
STRUCTURE NO. 016-1355



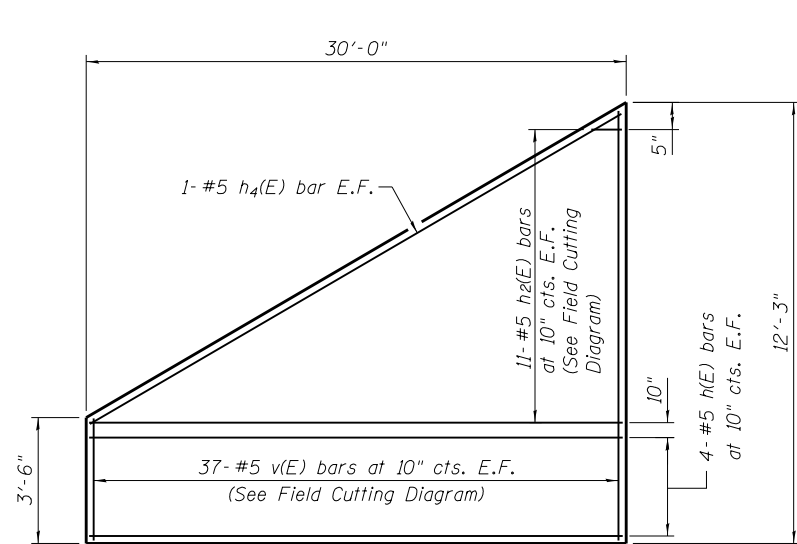
USER NAME = ogilivie	DESIGNED ACF	REVISED - 06/01/2018 - AMG
CHECKED PCA	REVISOR -	
DRAWN LK	REVISOR -	
DATE 01/19/2018	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

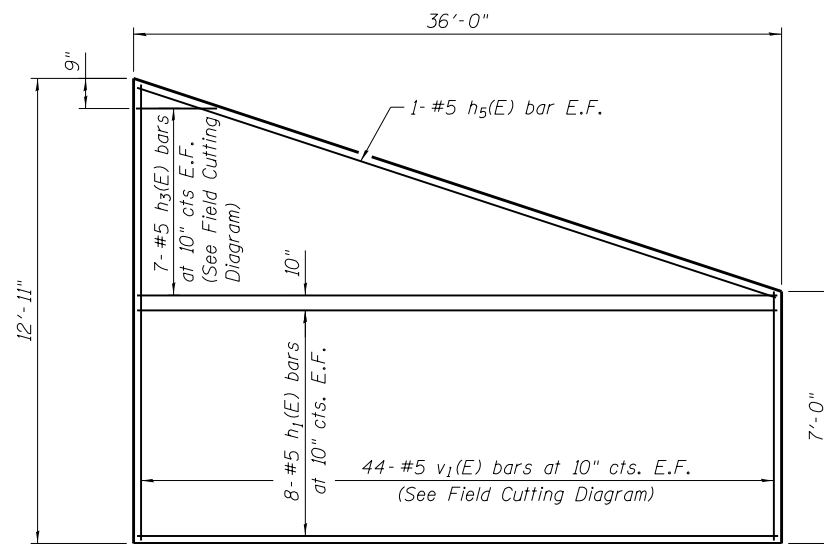
RETAINING WALL WB-6 GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-1355

SHEET NO. 1 OF 8 SHEETS

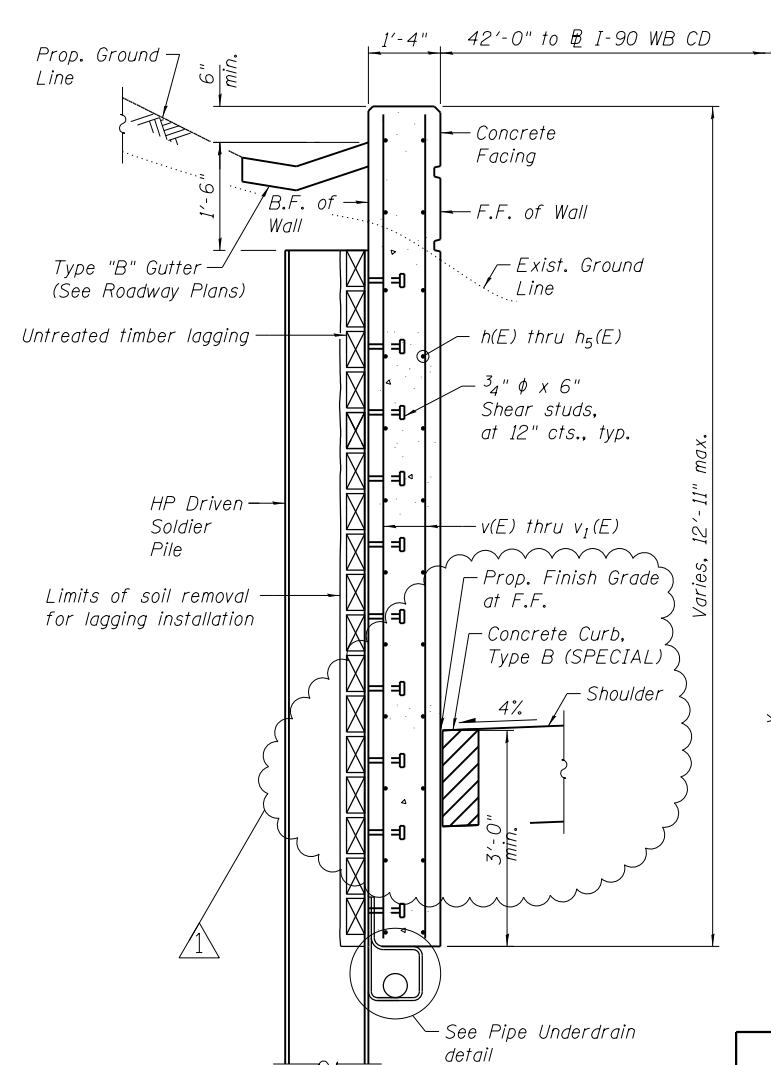
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	459
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



WEST SOLDIER PILE WALL ELEVATION



EAST SOLDIER PILE WALL ELEVATION

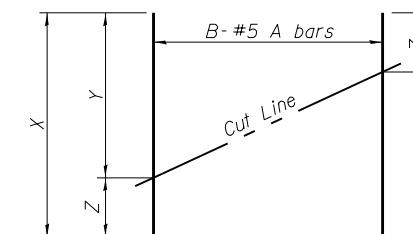


TYPICAL WALL SECTION AT SOLDIER PILE WALL

Geocomposite wall drain to be provided between piles.

WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#5	29'-8"	—
h ₁ (E)	16	#5	35'-8"	—
h ₂ (E)	11	#5	30'-7"	—
h ₃ (E)	7	#5	39'-10"	—
h ₄ (E)	2	#5	30'-11"	—
h ₅ (E)	2	#5	36'-1"	—
v(E)	37	#5	15'-1"	—
v ₁ (E)	44	#5	19'-3"	—
Reinforcement Bars, Epoxy Coated		Pound	3,090	
Concrete Structures		Cu Yd	29.4	



FIELD CUTTING DIAGRAM

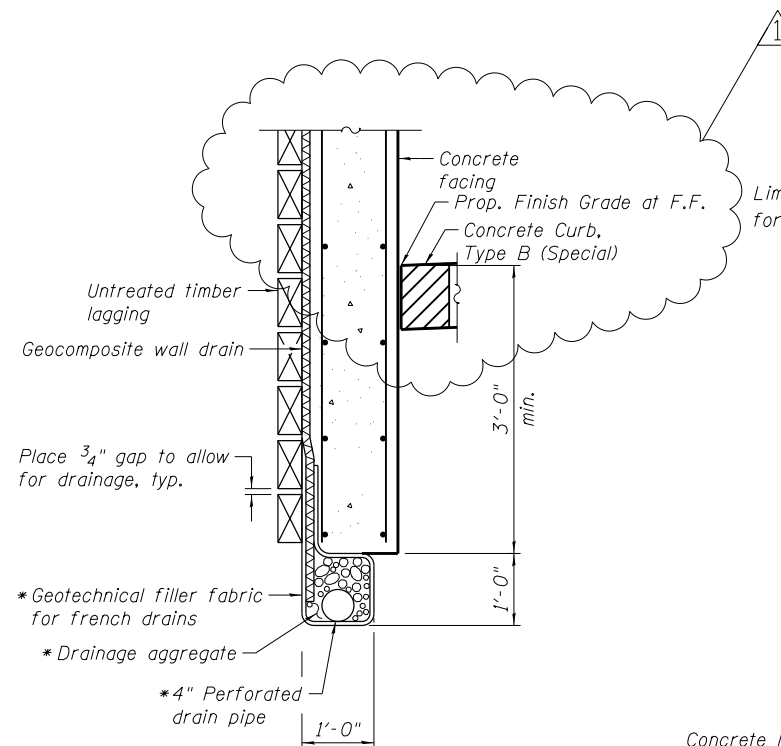
Order bars full length. Cut as shown and use remainder of bars in opposite face.

A	B	X	Y	Z
v(E)	37	15'-1"	11'-11"	3'-2"
v ₁ (E)	44	19'-3"	12'-7"	6'-8"
h ₂ (E)	11	30'-7"	29'-8"	11"
h ₃ (E)	7	39'-10"	35'-8"	4'-2"

PILE TABLE

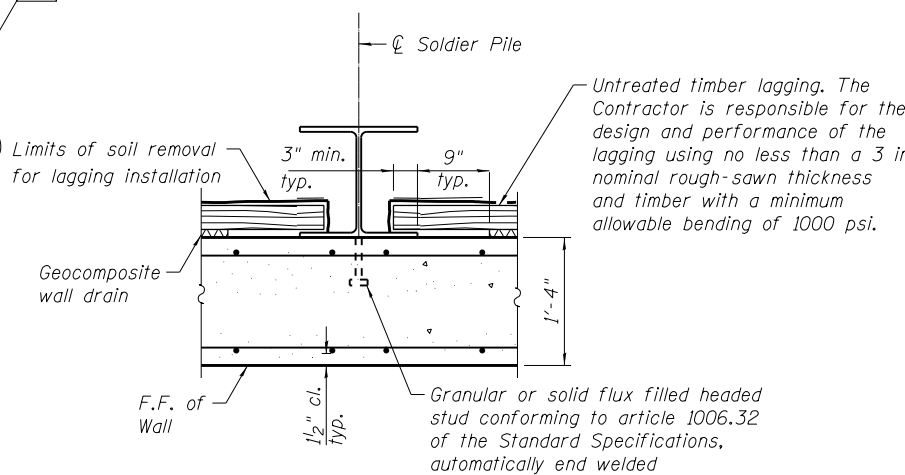
Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
1	HP14x89	633.69	611.28	22.42	3
2	HP14x89	635.97	613.55	22.42	5
3	HP18x181	638.24	604.83	33.42	8
4	HP18x181	640.52	607.10	33.42	10
5	HP18x181	640.94	608.03	32.92	10
6	HP18x181	639.97	607.06	32.92	9
7	HP14x89	639.01	613.76	25.25	8
8	HP14x89	638.04	612.79	25.25	7
9	HP14x89	637.07	611.82	25.25	6

Notes:
1. Slope underdrain to outlet to designated drainage structure, see Proposed Drainage Plans.

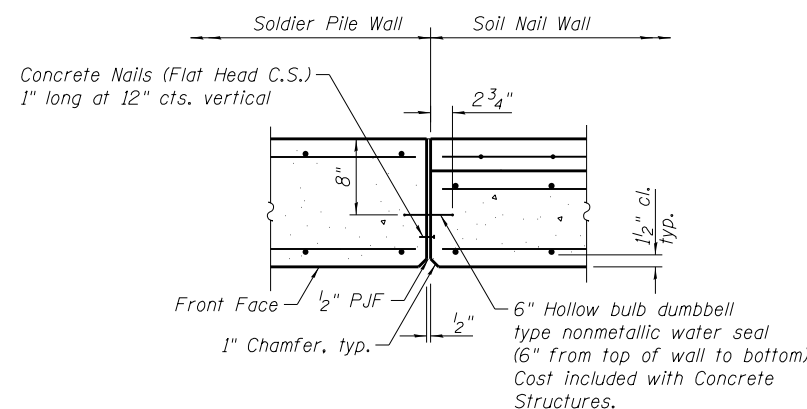


UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

* Included in the cost of Pipe Underdrains for Structures 4"



SECTION THRU SOLDIER PILE



EXPANSION JOINT



USER NAME = ogilviano	DESIGNED ACF	REVISED - 06/01/2018 - AMG
CHECKED PCA	REVISOR -	
PLOT SCALE = 0.16667' / in.	DRAWN LK	REVISOR -
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISOR -

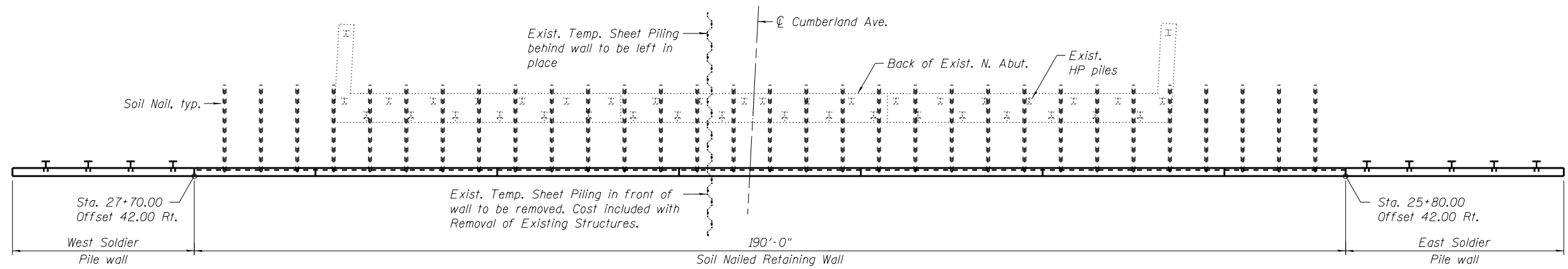
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-6 DETAILS - 1
STRUCTURE NO. 016-1355

SHEET NO. 3 OF 8 SHEETS

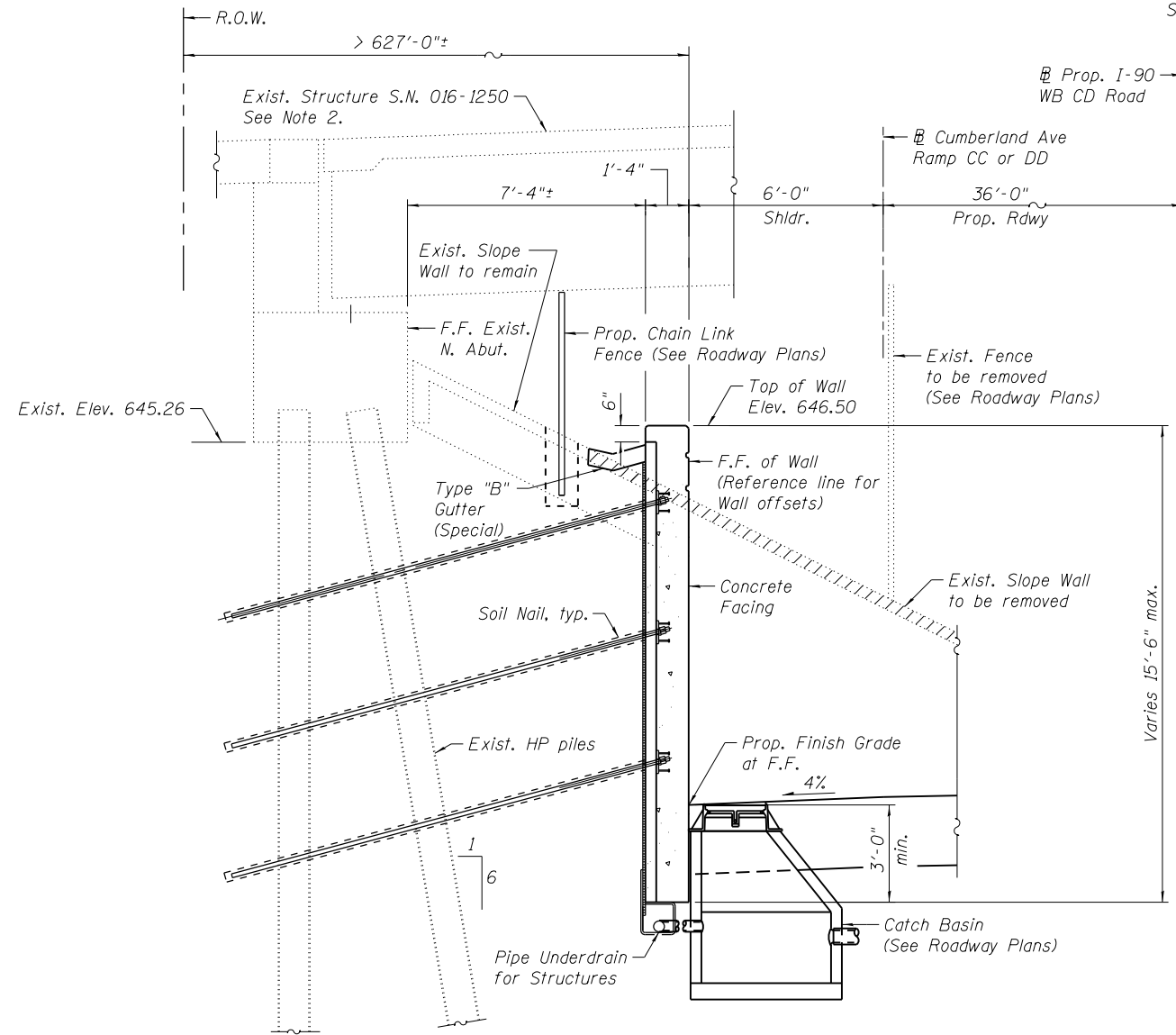
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	461
CONTRACT NO. 60Y39				

ILLINOIS FED. AID PROJECT

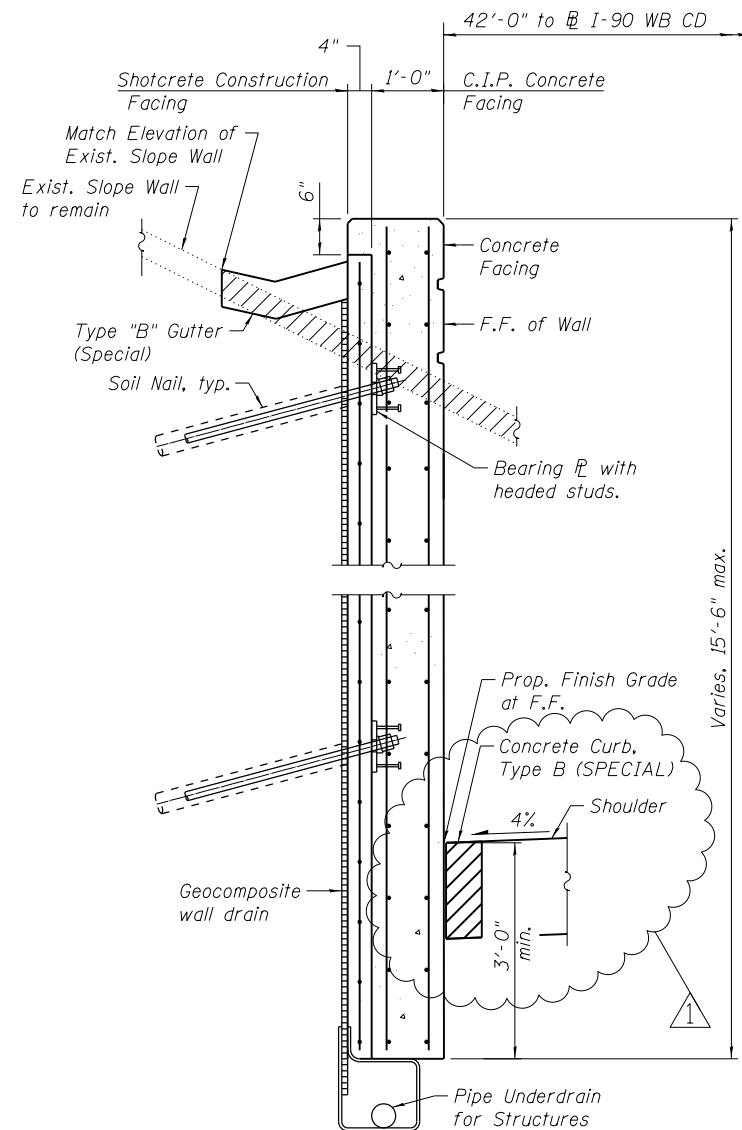


PLAN

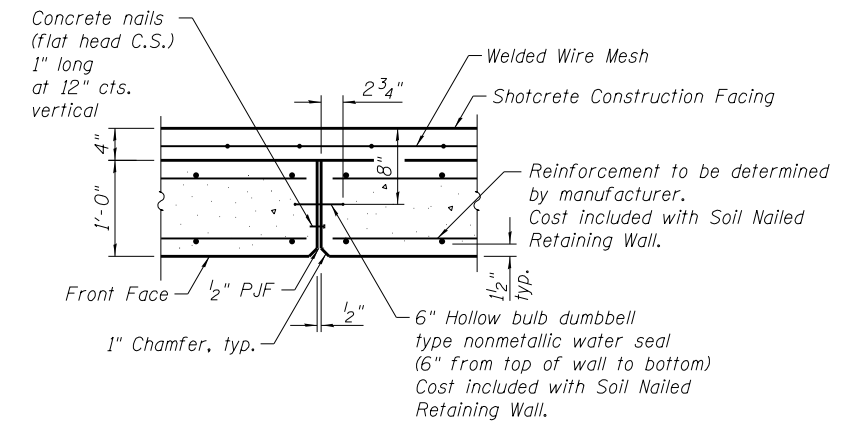
Number and spacing of soil nails and embedment length shall be per Contractor design.
 Space soil nails to miss existing piles and existing temporary sheet piling left in place.
 Slopewall not shown.



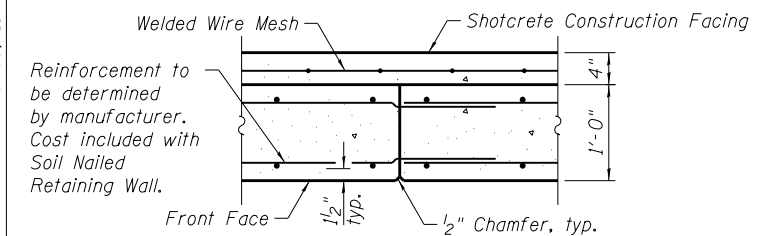
TYPICAL WALL SECTION
 Soil Nailed Retaining Wall shown
 Looking East



**TYPICAL WALL SECTION
 AT SOIL NAILED RETAINING WALL**



EXPANSION JOINT BETWEEN SOIL NAILED PANELS



CONSTRUCTION JOINT

Notes:

- Type "B" Gutter (Special) shall be used between Sta. 25+94.00 to 27+59.00. See Sheet 2 of 8 for detail.
- Existing horizontal load from the Existing Structure S.N. 016-1250 North Abutment shall be determined and considered by the soil nailed wall designer.
- Suggested sequence of construction:
 - Create near vertical excavation of the existing soil in lifts, followed by installation of the soil nails, wall drain, and shotcrete facing.
 - Install pipe underdrain and construct concrete facing.
 - Install drainage structure to the elevations shown in the plans and connect pipe underdrains.



USER NAME = agligentc	DESIGNED ACF	REVISED - 06/01/2018 - AMG
	CHECKED PCA	REVISED -
PLOT SCALE = 0.16667' / 1"	DRAWN LK	REVISED -
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-6 DETAILS - 2
 STRUCTURE NO. 016-1355

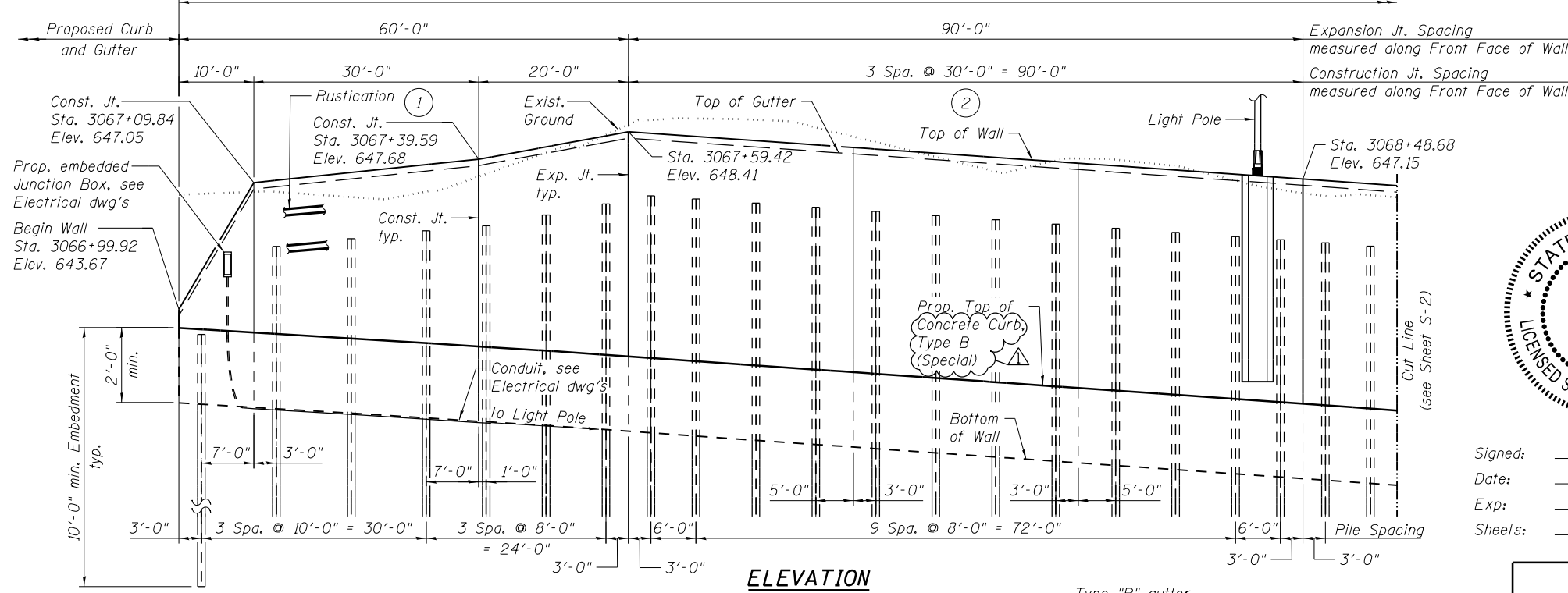
SHEET NO. 4 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	462
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

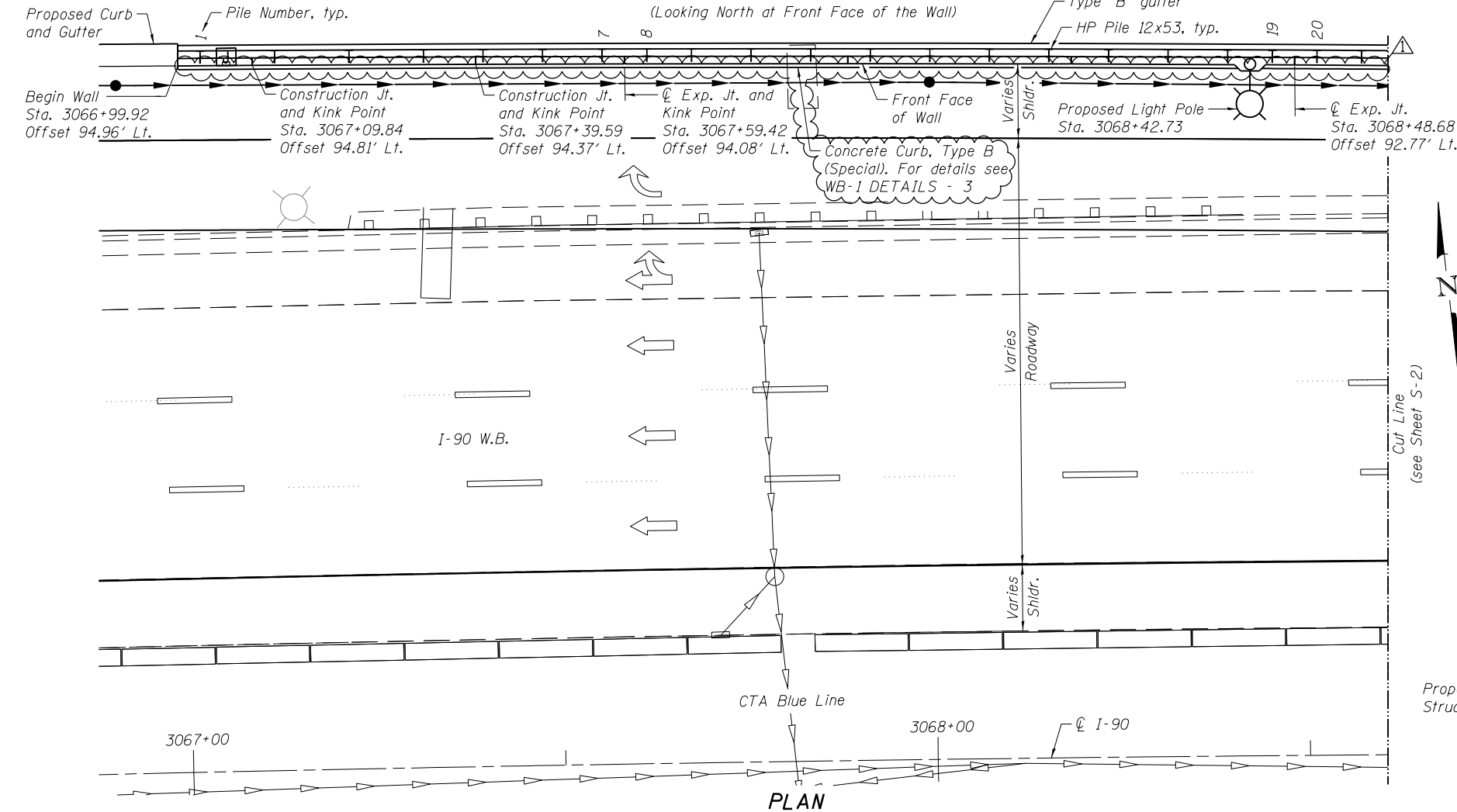
Bench Mark: TBM #19 (Elev. 638.00) - Square cut on top of barrier wall by light pole (FC13) mile marker 80.40 on North side WB I-90 just east of Canfield.

Existing Structure: None

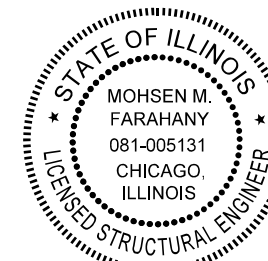
756'-3" Beginning of Wall to End of Wall measured along Front Face of Wall



ELEVATION



PLAN



Signed: *Mohsen M. Farahany*
 Date: 4/21/2018
 Exp: 11/30/2018
 Sheets: S-1 to S-12

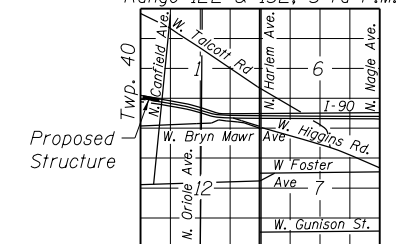
STATION 3066+99.92
 BUILT 201 BY
 STATE OF ILLINOIS
 F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
 LOADING HL-93
 STRUCTURE NO. 016-Z036

NAME PLATE
 See Std. 515001

GENERAL NOTES

- Stations and Offsets are measured from ϕ I-90 to Front Face of wall.
- The geometry of the wall follows curvature of the ϕ I-90. The wall may be constructed on chords between expansion/construction joints.
- For Section thru wall, Construction and Expansion joint details and Pile Table see Sheet S-7 of 12.
- For Light Pole details see Sheet S-6 of 12.
- Notes:
 1. For continuation see Sheet S-2 of 12.
 2. For the panel details see Sheets S-5 and S-6 of 12.

Range 12E & 13E, 3 rd P.M.



LOCATION SKETCH

INDEX OF SHEETS

S-1	Retaining Wall WB-1 Plan & Elevation - 1
S-2	Retaining Wall WB-1 Plan & Elevation - 2
S-3	Retaining Wall WB-1 Plan & Elevation - 3
S-4	Retaining Wall WB-1 Plan & Elevation - 4
S-5	Retaining Wall WB-1 Details - 1
S-6	Retaining Wall WB-1 Details - 2
S-7	Retaining Wall WB-1 Details - 3
S-8	Retaining Wall WB-1 Soil Boring Logs - 1
S-9	Retaining Wall WB-1 Soil Boring Logs - 2
S-10	Retaining Wall WB-1 Soil Boring Logs - 3
S-11	Retaining Wall WB-1 Soil Boring Logs - 4
S-12	Retaining Wall WB-1 Soil Boring Logs - 5

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	374
Concrete Structures	Cu Yd	215.6
Stud Shear Connectors	Each	745
Reinforcement Bars, Epoxy Coated	Pound	32,740
Name Plates	Each	1
Furnishing Soldier Piles (HP section)	Foot	1,431
Driving Soldier Piles	Foot	1,431
Untreated Timber Lagging	Sq Ft	4,599
Concrete Sealer	Sq Ft	4,995
Geocomposite Wall Drain	Sq Yd	511
Pipe Underdrains for Structures 4 in	Foot	757

LEGEND:

Existing	Proposed	Description
		Inlet
		Catch Basin
		Manhole
		Storm Sewer
		Pipe Underdrain
		Light Pole
		Boring
		Panel Type

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)

DESIGN SPECIFICATIONS

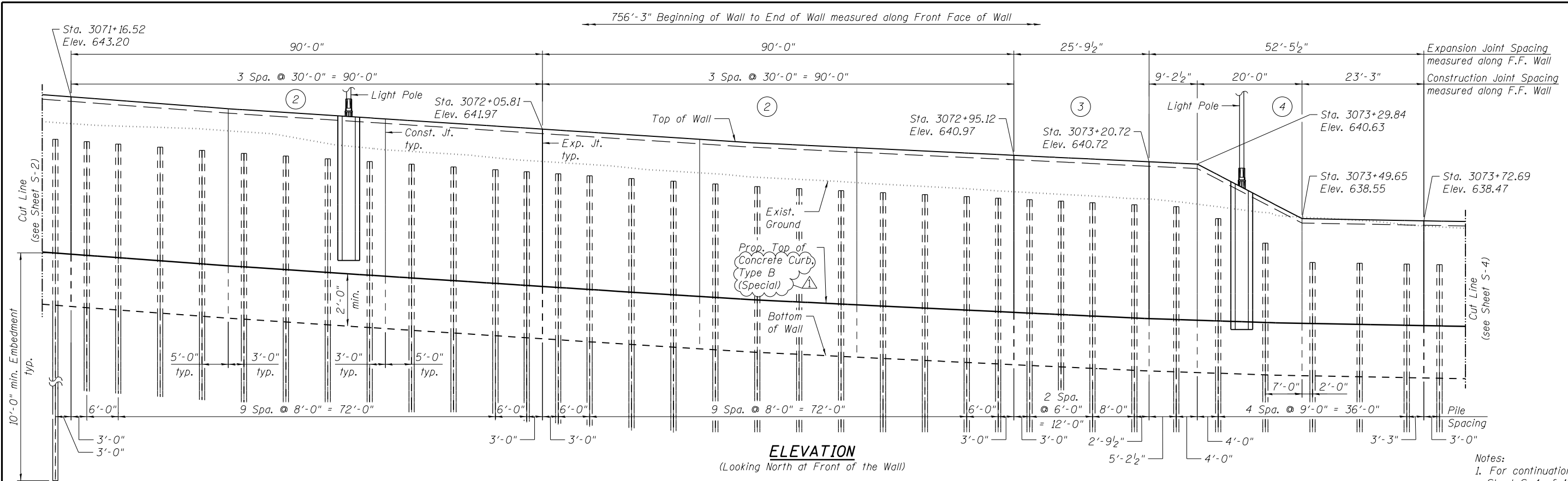
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions

GENERAL PLAN AND ELEVATION I
INTERSTATE I-90
 F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
 COOK COUNTY
 STA. 3066+99.92 TO 3074+50.05
 STRUCTURE NO. 016-Z036

RETAINING WALL WB-1 PLAN & ELEVATION - 1
STRUCTURE NO. 016-Z036
 SHEET NO. S-1 OF 12 SHEETS

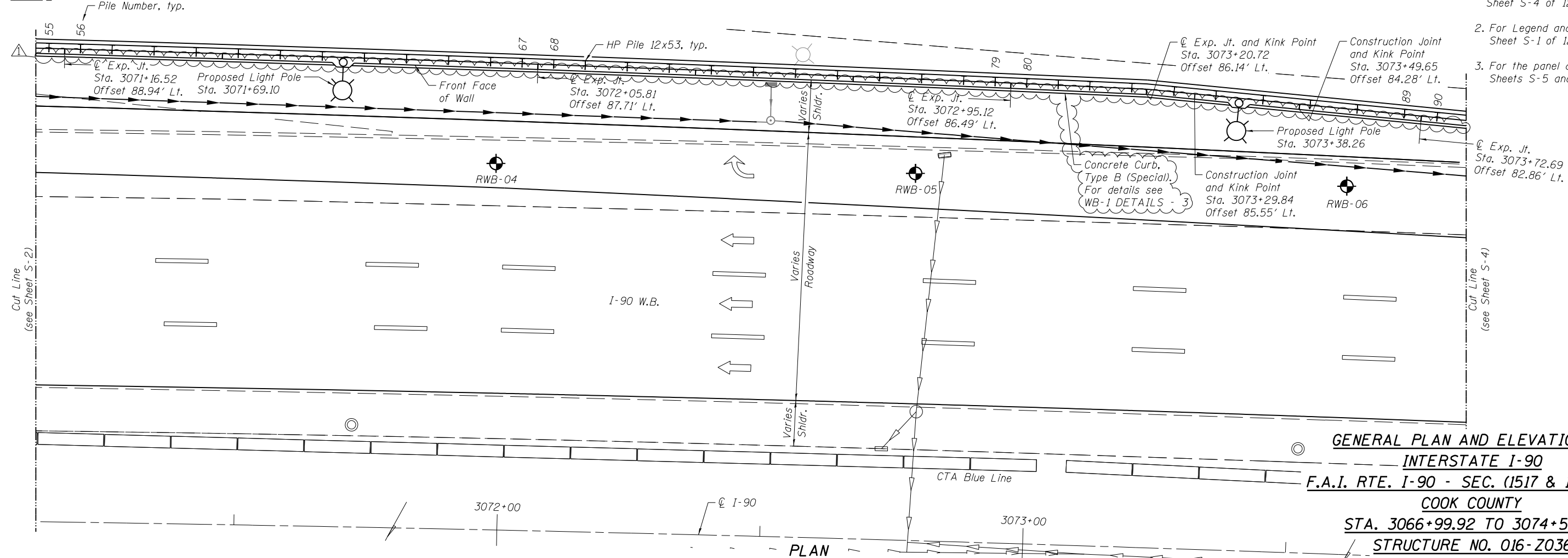
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	467
				CONTRACT NO. 60Y39

USER NAME =	EVaysman	DESIGNED -	EV	REVISED -	06/01/2018 - PAH
CHECKED -	PAH	REVISOR -		REVISOR -	
PLOT SCALE =		DRAWN -	EV	REVISOR -	
PLOT DATE =	01/19/2018	CHECKED -	PAH	REVISOR -	



ELEVATION
(Looking North at Front of the Wall)

- Notes:
1. For continuation, see Sheet S-4 of 12.
 2. For Legend and Notes, see Sheet S-1 of 12.
 3. For the panel details see Sheets S-5 and S-6 of 12.



PLAN

GENERAL PLAN AND ELEVATION III
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3066+99.92 TO 3074+50.05
STRUCTURE NO. 016-2036

5/30/2018
MODEL: Default
D:\158015-sh1-PRWB-1_LP&E03.dgn



USER NAME = EVaysman	DESIGNED - EV	REVISD - 06/01/2018 - PAH
	CHECKED - PAH	REVISD -
PLOT SCALE =	DRAWN - EV	REVISD -
PLOT DATE = 01/19/2018	CHECKED - PAH	REVISD -

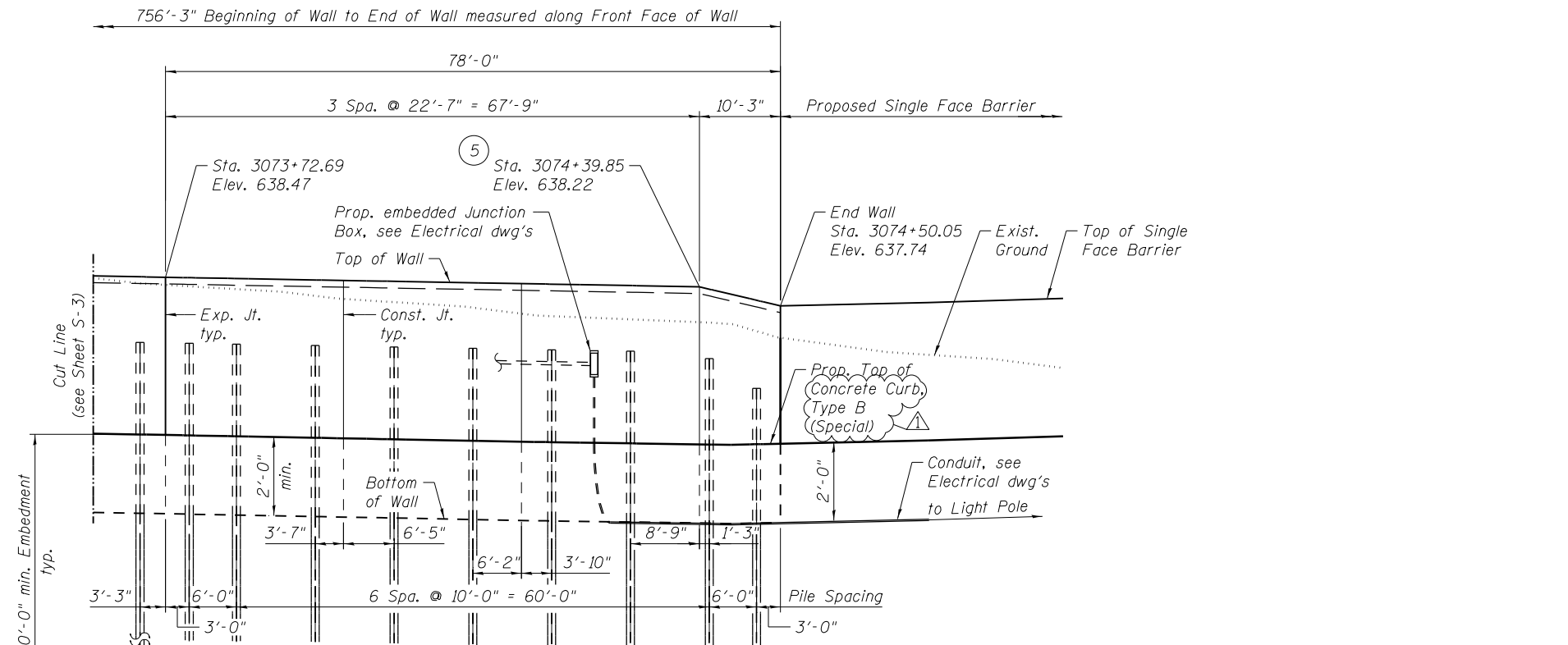
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-1 PLAN & ELEVATION - 3
STRUCTURE NO. 016-2036

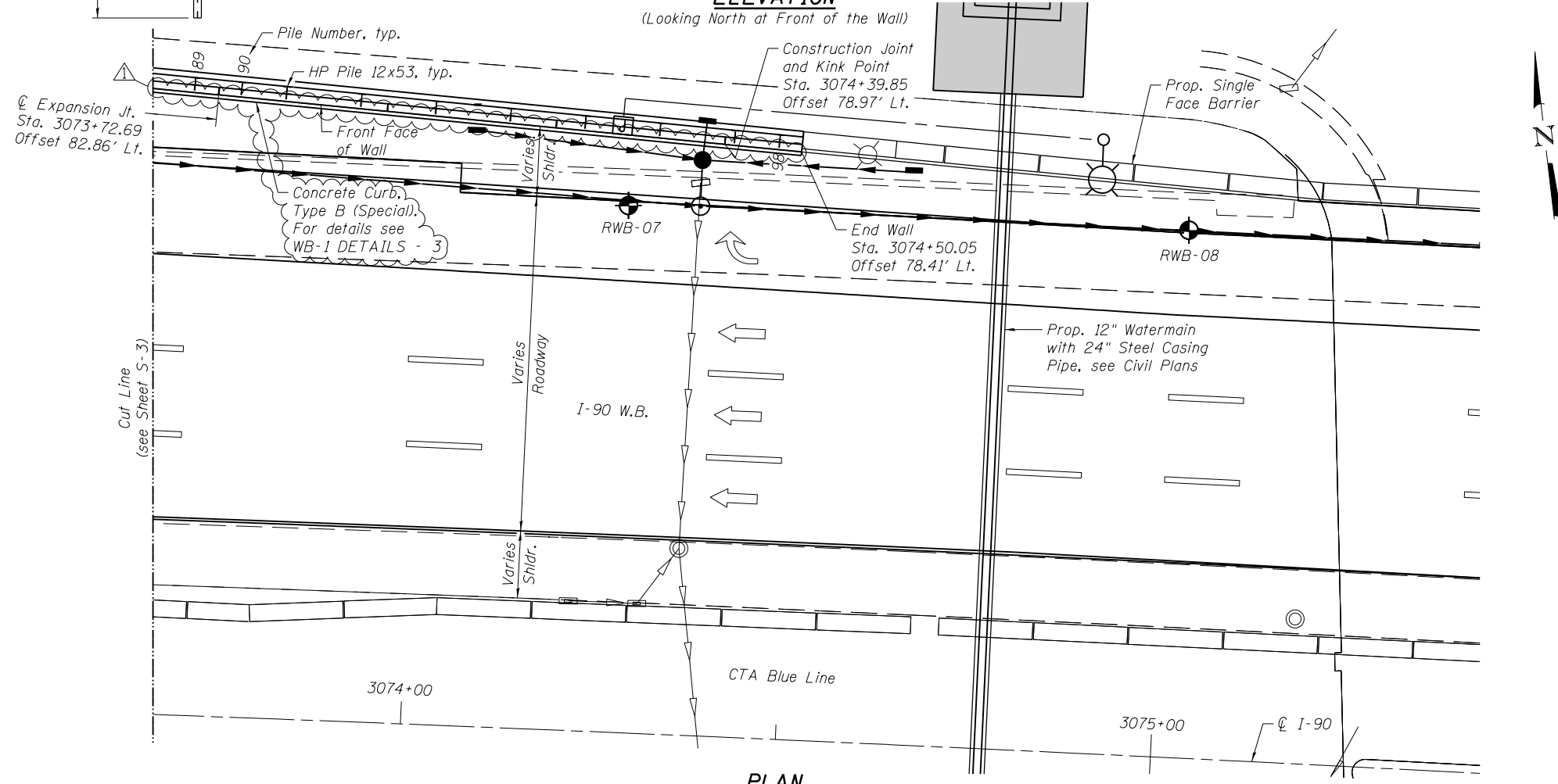
SHEET NO. S-3 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	469
CONTRACT NO. 60Y39				

ILLINOIS FED. AID PROJECT



ELEVATION
(Looking North at Front of the Wall)



PLAN

- Notes:
1. For Legend and Notes, see Sheet S-1 of 12.
 2. For the panel details see Sheets S-5 and S-6 of 12.

GENERAL PLAN AND ELEVATION IV
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3066+99.92 TO 3074+50.05
STRUCTURE NO. 016-2036

5/30/2018
MODEL: Default
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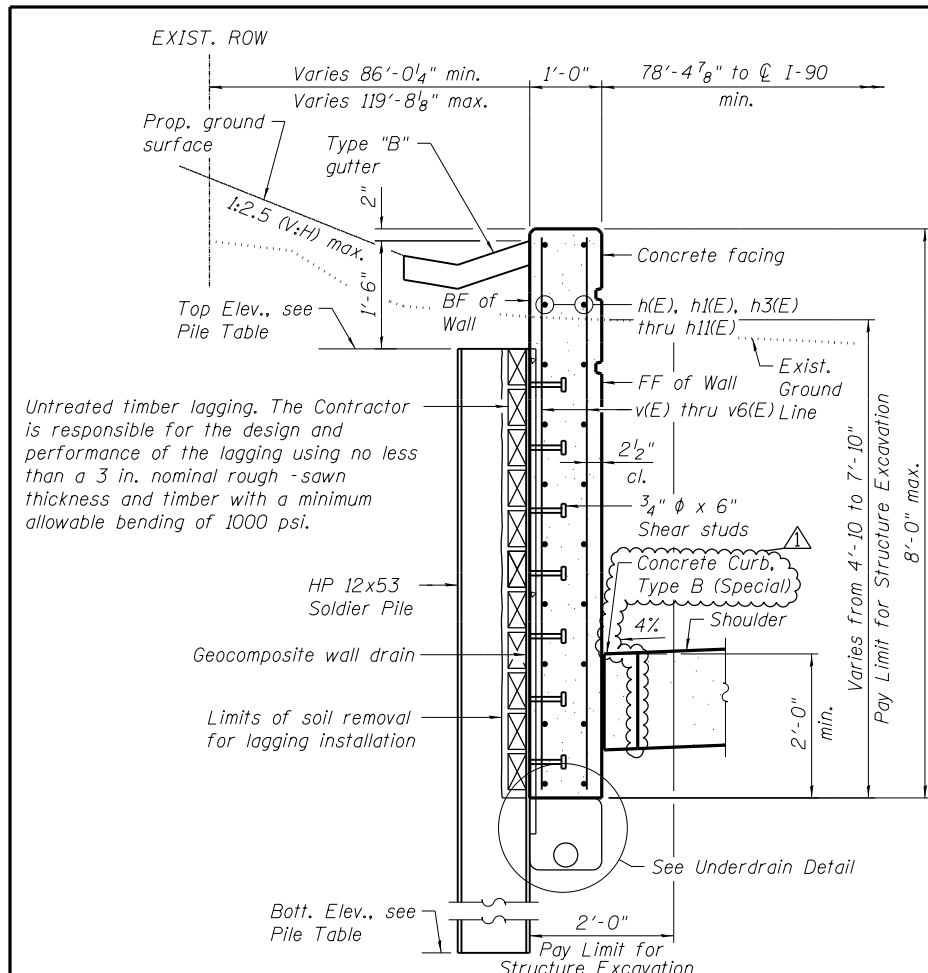
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

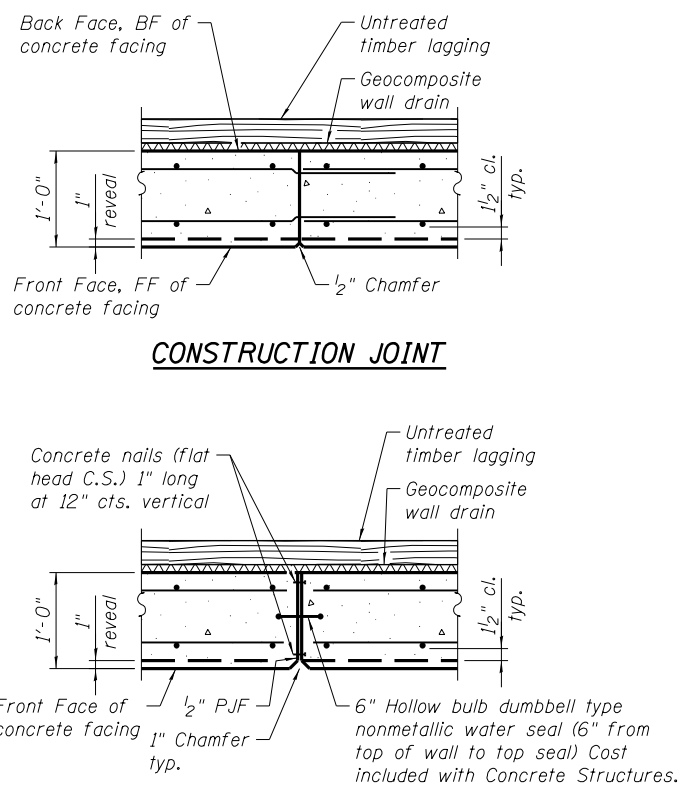
RETAINING WALL WB-1 PLAN & ELEVATION - 4
STRUCTURE NO. 016-2036

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	470
CONTRACT NO. 60Y39				

SHEET NO. S-4 OF 12 SHEETS

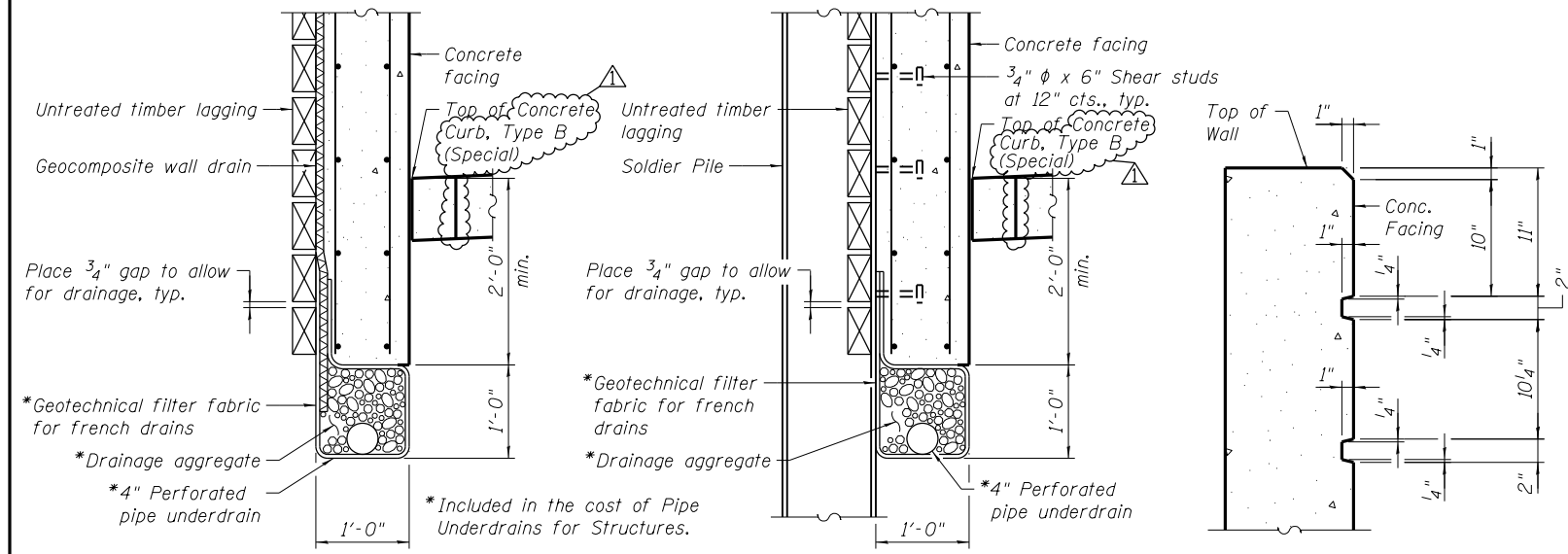


SECTION THRU DRIVEN SOLDIER PILE WALL



CONSTRUCTION JOINT

EXPANSION JOINT



BETWEEN SOLDIER PILES

UNDERDRAIN DETAIL

AT SOLDIER PILES

RUSTICATION DETAIL

AT TOP OF WALL

PILE TABLE					
Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
1	HP 12X53	643.00	633.00	10	3
2	HP 12X53	645.35	632.35	13	6
3	HP 12X53	645.56	632.56	13	6
4	HP 12X53	645.77	631.77	14	7
5	HP 12X53	645.90	631.90	14	7
6	HP 12X53	646.19	632.19	14	7
7	HP 12X53	646.48	631.48	15	8
8	HP 12X53	646.70	631.70	15	8
9	HP 12X53	646.61	631.61	15	8
10	HP 12X53	646.50	631.50	15	8
11	HP 12X53	646.39	631.39	15	8
12	HP 12X53	646.28	631.28	15	8
13	HP 12X53	646.17	631.17	15	8
14	HP 12X53	646.06	631.06	15	8
15	HP 12X53	645.94	630.94	15	8
16	HP 12X53	645.83	630.83	15	8
17	HP 12X53	645.72	630.72	15	8
18	HP 12X53	645.61	630.61	15	8
19	HP 12X53	645.53	630.53	15	8
20	HP 12X53	645.44	630.44	15	8
21	HP 12X53	645.33	630.33	15	8
22	HP 12X53	645.24	630.24	15	8
23	HP 12X53	645.12	630.12	15	8
24	HP 12X53	645.01	630.01	15	8
25	HP 12X53	644.89	629.89	15	8
26	HP 12X53	644.77	629.77	15	8
27	HP 12X53	644.66	629.66	15	8
28	HP 12X53	644.54	629.54	15	8
29	HP 12X53	644.43	629.43	15	8
30	HP 12X53	644.31	629.31	15	8
31	HP 12X53	644.23	629.23	15	8
32	HP 12X53	644.14	629.14	15	8
33	HP 12X53	644.05	629.05	15	8
34	HP 12X53	643.94	628.94	15	8
35	HP 12X53	643.82	628.82	15	8
36	HP 12X53	643.71	628.71	15	8
37	HP 12X53	643.59	628.59	15	8
38	HP 12X53	643.47	628.47	15	8
39	HP 12X53	643.36	628.36	15	8
40	HP 12X53	643.24	628.24	15	8
41	HP 12X53	643.13	628.13	15	8
42	HP 12X53	643.01	628.01	15	8
43	HP 12X53	642.92	627.92	15	8
44	HP 12X53	642.84	627.84	15	8
45	HP 12X53	642.75	627.75	15	8
46	HP 12X53	642.64	627.64	15	8
47	HP 12X53	642.51	627.51	15	8
48	HP 12X53	642.39	627.39	15	8
49	HP 12X53	642.27	627.27	15	8

PILE TABLE					
Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
50	HP 12X53	642.15	627.15	15	8
51	HP 12X53	642.03	627.03	15	8
52	HP 12X53	641.91	626.91	15	8
53	HP 12X53	641.79	626.79	15	8
54	HP 12X53	641.67	626.67	15	8
55	HP 12X53	641.58	626.58	15	8
56	HP 12X53	641.49	626.49	15	8
57	HP 12X53	641.40	626.40	15	8
58	HP 12X53	641.28	626.28	15	8
59	HP 12X53	641.16	626.16	15	8
60	HP 12X53	641.04	626.04	15	8
61	HP 12X53	640.94	625.94	15	8
62	HP 12X53	640.84	625.84	15	8
63	HP 12X53	640.73	625.73	15	8
64	HP 12X53	640.63	625.63	15	8
65	HP 12X53	640.52	625.52	15	8
66	HP 12X53	640.42	625.42	15	8
67	HP 12X53	640.34	625.34	15	8
68	HP 12X53	640.26	625.26	15	8
69	HP 12X53	640.19	625.19	15	8
70	HP 12X53	640.08	625.08	15	8
71	HP 12X53	639.98	624.98	15	8
72	HP 12X53	639.87	624.87	15	8
73	HP 12X53	639.77	624.77	15	8
74	HP 12X53	639.70	624.70	15	8
75	HP 12X53	639.62	624.62	15	8
76	HP 12X53	639.54	624.54	15	8
77	HP 12X53	639.47	624.47	15	8
78	HP 12X53	639.39	624.39	15	8
79	HP 12X53	639.33	624.33	15	8
80	HP 12X53	639.27	624.27	15	8
81	HP 12X53	639.22	624.22	15	8
82	HP 12X53	639.16	624.16	15	8
83	HP 12X53	639.08	624.08	15	8
84	HP 12X53	639.01	624.01	15	8
85	HP 12X53	638.55	624.55	14	7
86	HP 12X53	637.61	623.61	14	7
87	HP 12X53	636.88	623.88	13	6
88	HP 12X53	636.84	623.84	13	6
89	HP 12X53	636.81	623.81	13	6
90	HP 12X53	636.79	623.79	13	6
91	HP 12X53	636.77	623.77	13	6
92	HP 12X53	636.73	623.73	13	6
93	HP 12X53	636.70	623.70	13	6
94	HP 12X53	636.66	623.66	13	6
95	HP 12X53	636.63	623.63	13	6
96	HP 12X53	636.59	623.59	13	6
97	HP 12X53	636.40	623.40	13	6
98	HP 12X53	635.64	623.64	12	5

Notes:
1. For panel reinforcement, see Sheets S-5 and S-6 of 12.

5/30/2018
MODEL: Sheet
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PLOT DATE =	01/19/2018	CHECKED -	PAH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-1 DETAILS - 3
STRUCTURE NO. 016-2036

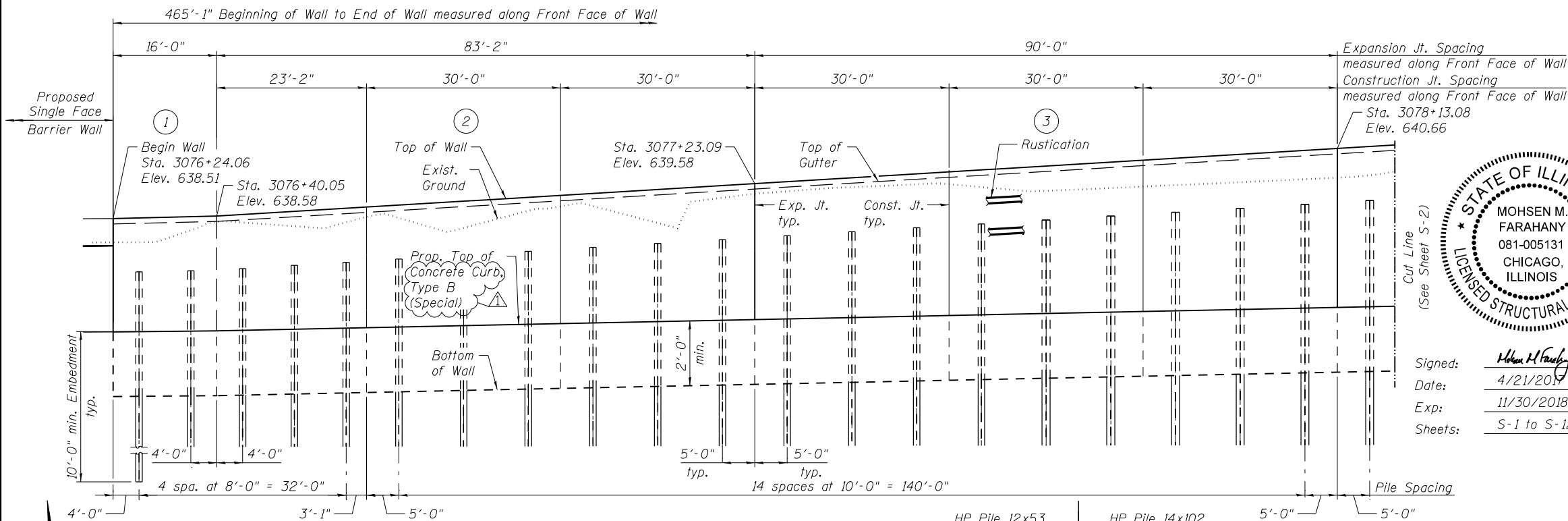
SHEET NO. S-7 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	473
CONTRACT NO. 60Y39				

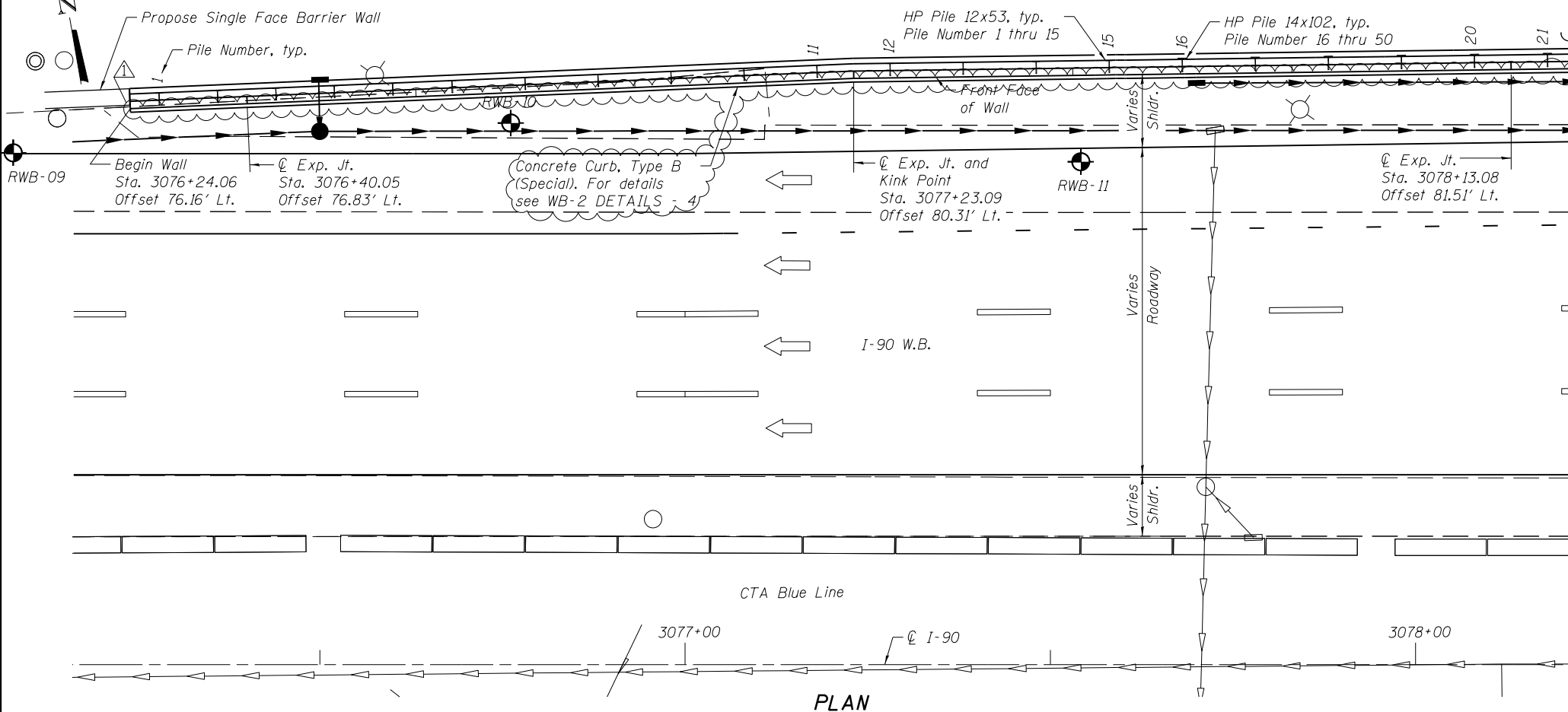
ILLINOIS FED. AID PROJECT
REV. 6/4/18

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.

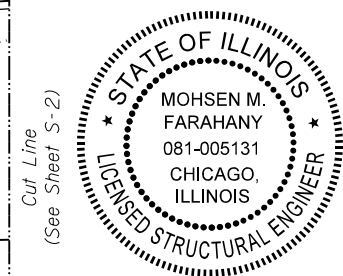
Existing Structure: None



ELEVATION
(Looking North at Front Face of the Wall)



PLAN



Signed: *Mohsen M. Farahany*
Date: 4/21/2018
Exp: 11/30/2018
Sheets: S-1 to S-12

INDEX OF SHEETS

S-1	Retaining Wall WB-2 Plan & Elevation - 1
S-2	Retaining Wall WB-2 Plan & Elevation - 2
S-3	Retaining Wall WB-2 Plan & Elevation - 3
S-4	Retaining Wall WB-2 Details - 1
S-5	Retaining Wall WB-2 Details - 2
S-6	Retaining Wall WB-2 Details - 3
S-7	Retaining Wall WB-2 Details - 4
S-8	Retaining Wall WB-2 Soil Boring Logs - 1
S-9	Retaining Wall WB-2 Soil Boring Logs - 2
S-10	Retaining Wall WB-2 Soil Boring Logs - 3
S-11	Retaining Wall WB-2 Soil Boring Logs - 4
S-12	Retaining Wall WB-2 Soil Boring Logs - 5

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	222
Concrete Structures	Cu Yd	121.8
Stud Shear Connectors	Each	341
Reinforcement Bars, Epoxy Coated	Pound	17,720
Name Plates	Each	1
Furnishing Soldier Piles (HP section)	Foot	884
Driving Soldier Piles	Foot	884
Untreated Timber Lagging	Sq Ft	2,498
Concrete Sealer	Sq Ft	2,835
Geocomposite Wall Drain	Sq Yd	290
Pipe Underdrains for Structures, 4 in	Foot	466

LEGEND:

Existing	Proposed	
○	○	Inlet
○	●	Catch Basin
○	○	Manhole
—	—	Storm Sewer
—	—	Pipe Underdrain
○	○	Light Pole
○	○	Boring
○	○	Panel Type

STATION 3076+24.06
BUILT 201 BY
STATE OF ILLINOIS
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
LOADING HL-93
STRUCTURE NO. 016-Z037

NAME PLATE
See Std. 515001

GENERAL NOTES

Stations and Offsets are measured from C I-90 to Front Face of wall.

The geometry of the wall follows curvature of the C I-90. The wall may be constructed on chords between expansion/construction joints.

For Section thru wall, Construction and Expansion joint details and Pile Table see Sheet S-7 of 12.

Notes:
1. For continuation see Sheet S-2 of 12.

2. For the panel details see Sheet S-4 of 12.

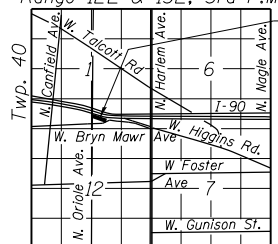
DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions

Range 12E & 13E, 3rd P.M.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION I
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3076+24.06 TO 3080+84.83
STRUCTURE NO. 016-Z037

5/30/2018
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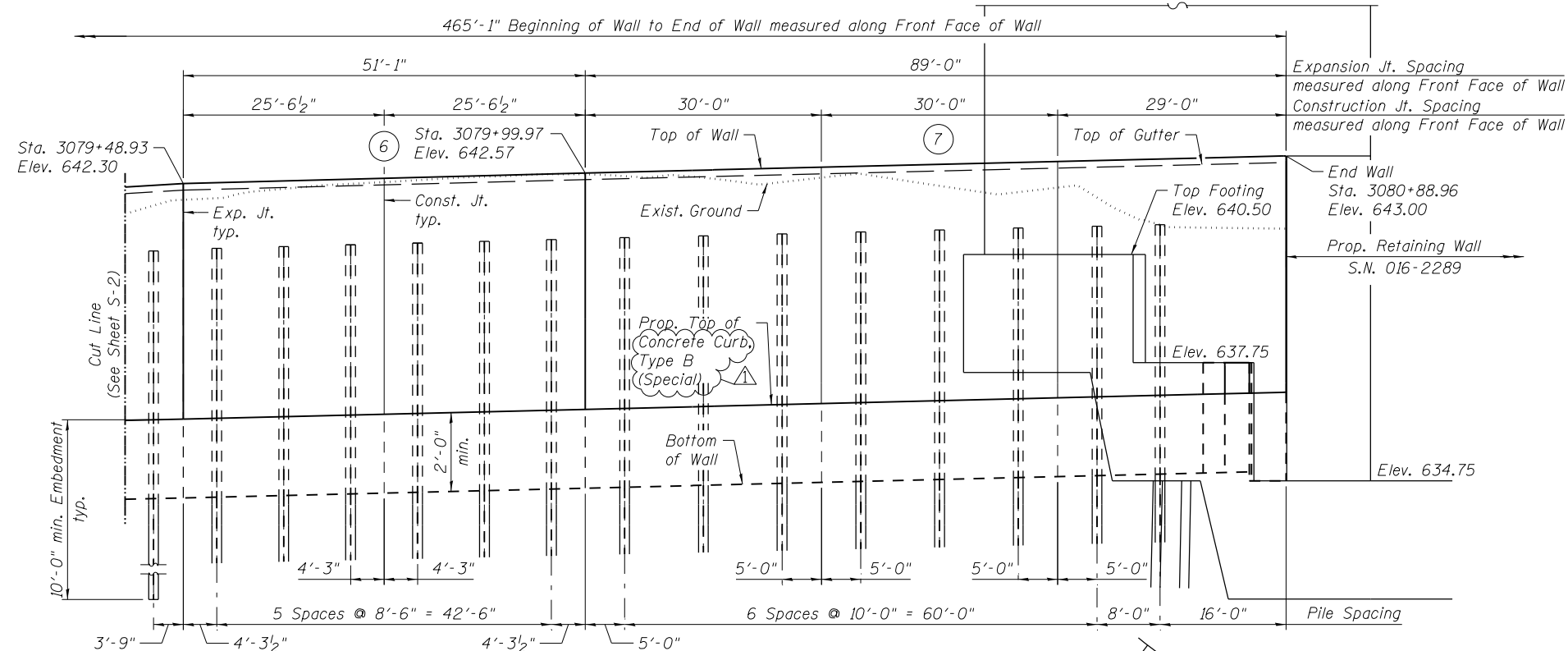
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

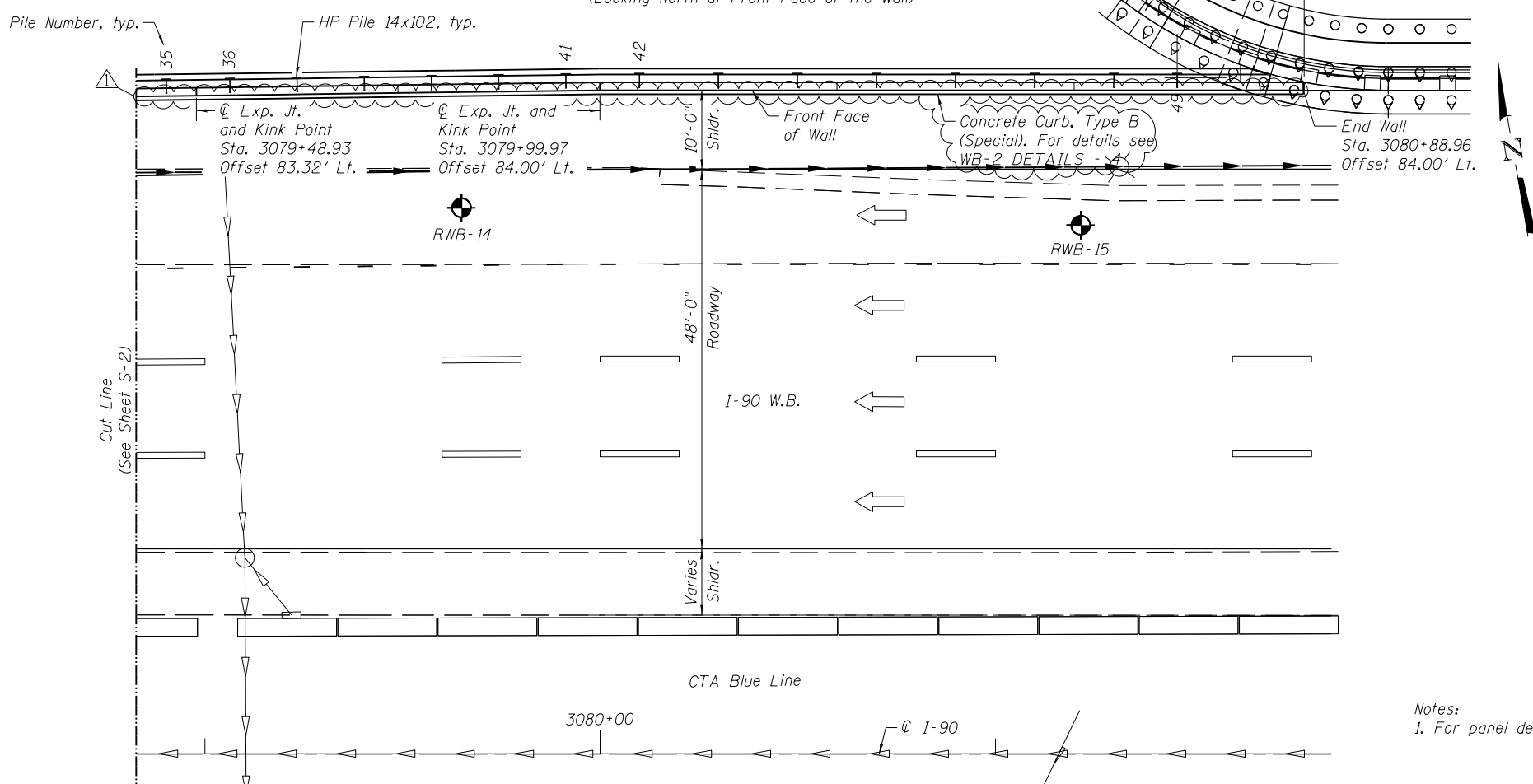
RETAINING WALL WB-2 PLAN AND ELEVATION - 1
STRUCTURE NO. 016-Z037

SHEET NO. S-1 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	479
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking North at Front Face of the Wall)



PLAN

Notes:
1. For panel details see Sheets S-5 and S-6 of 12.

GENERAL PLAN AND ELEVATION III
INTERSTATE I-90
F.A.P. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3076+24.06 TO 3080+84.83
STRUCTURE NO. 016-Z037

5/30/2018
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

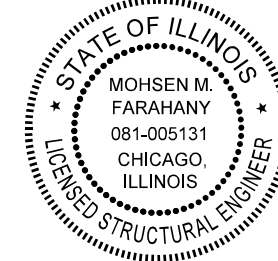
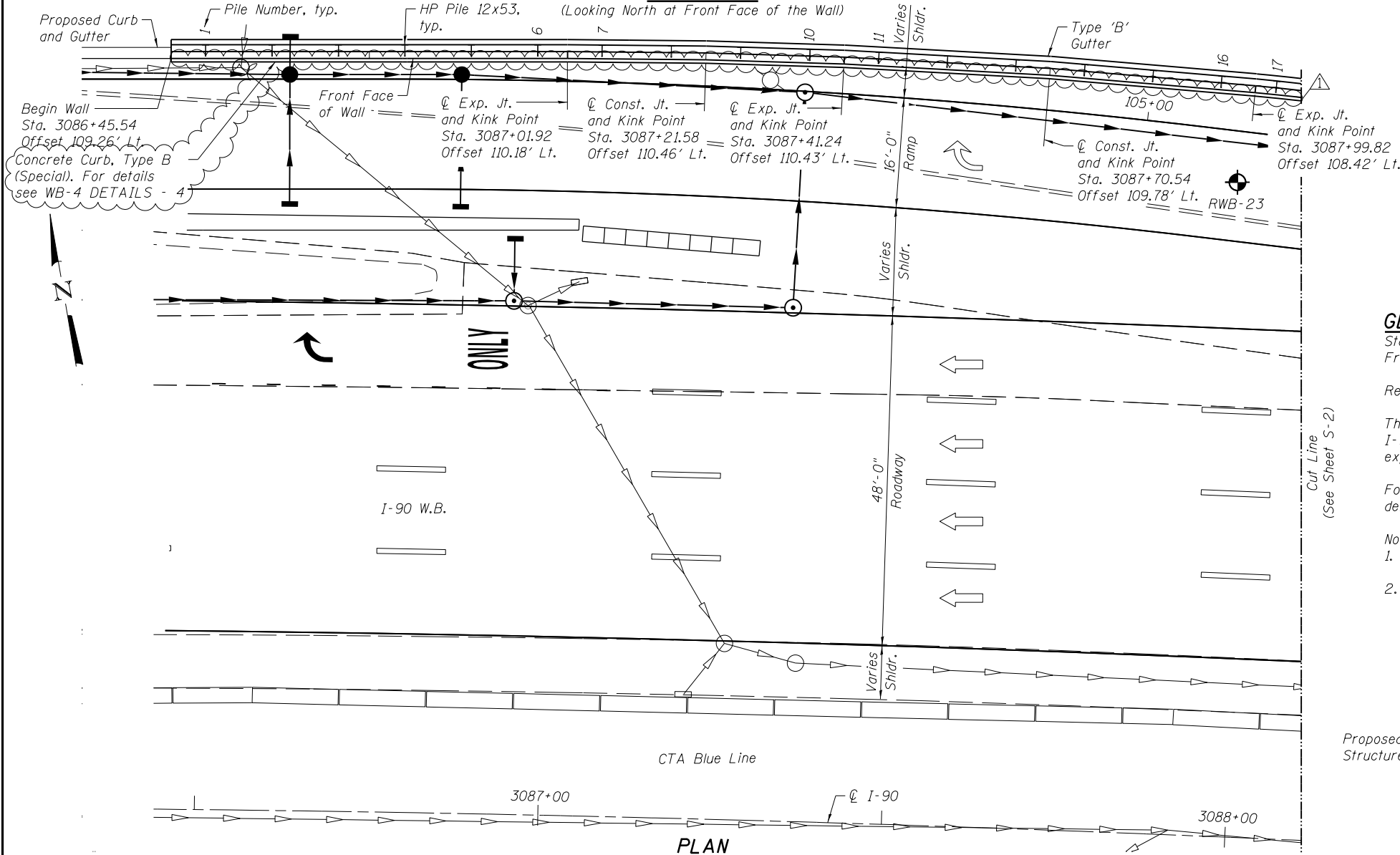
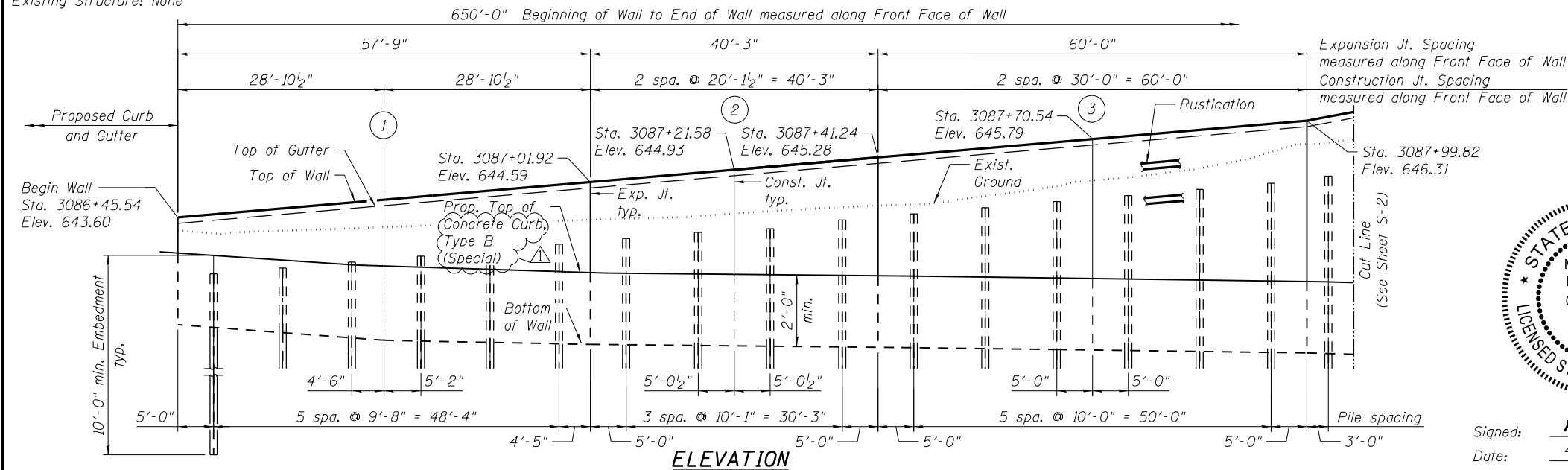
RETAINING WALL WB-2 PLAN AND ELEVATION - 3
STRUCTURE NO. 016-Z037

SHEET NO. S-3 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	481
CONTRACT NO. 60Y39				

Bench Mark: TBM #17 (Elev. 637.45) - "x" cut SW bolt of light pole (FH8) on North side of WB I-90, 3rd pole West of CTA bridge West of Harlem Ave.

Existing Structure: None



Signed: *Mohsen M. Farahany*
 Date: 4/21/2018
 Exp: 11/30/2018
 Sheets: S-1 to S-12

STATION 3086+45.54
 BUILT 201L BY
 STATE OF ILLINOIS
 F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
 LOADING HL-93
 STRUCTURE NO. 016-Z038

NAME PLATE
 See Std. 515001

GENERAL NOTES

Stations and Offsets are measured from C I-90 to Front Face of wall.

Reinforcement bars designated (E) shall be epoxy coated.

The geometry of the wall follows curvature of the C I-90 . The wall may be constructed on chords between expansion/construction joints.

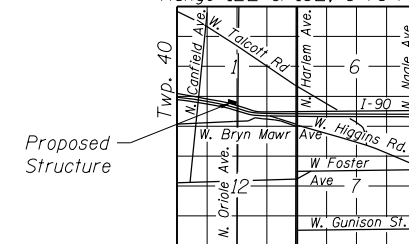
For Section thru wall, Construction and Expansion joint details and Pile Table see Sheet S-7 of 12.

Notes:

1. For continuation see Sheet S-2 of 12.

2. For panel details see Sheets S-4 thru S-7 of 12.

Range 12E & 13E, 3 rd P.M.



LOCATION SKETCH

INDEX OF SHEETS

- S-1 Retaining Wall WB-4 Plan & Elevation - 1
- S-2 Retaining Wall WB-4 Plan & Elevation - 2
- S-3 Retaining Wall WB-4 Plan & Elevation - 3
- S-4 Retaining Wall WB-4 Details - 1
- S-5 Retaining Wall WB-4 Details - 2
- S-6 Retaining Wall WB-4 Details - 3
- S-7 Retaining Wall WB-4 Details - 4
- S-8 Retaining Wall WB-4 Soil Boring Logs - 1
- S-9 Retaining Wall WB-4 Soil Boring Logs - 2
- S-10 Retaining Wall WB-4 Soil Boring Logs - 3
- S-11 Retaining Wall WB-4 Soil Boring Logs - 4
- S-12 Retaining Wall WB-4 Soil Boring Logs - 5

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	258
Concrete Structures	Cu Yd	161.6
Stud Shear Connectors	Each	498
Reinforcement Bars, Epoxy Coated	Pound	23,980
Name Plates	Each	1
Furnishing Soldier Piles (HP section)	Foot	995
Driving Soldier Piles	Foot	995
Untreated Timber Lagging	Sq Ft	3,387
Concrete Sealer	Sq Ft	3,712
Geocomposite Wall Drain	Sq Yd	376
Pipe Underdrains for Structures, 4 in	Foot	650

LEGEND:

- | | | |
|----------|----------|-----------------|
| Existing | Proposed | Inlet |
| ○ | ● | Catch Basin |
| ○ | ○ | Manhole |
| ○ | ○ | Storm Sewer |
| ○ | ○ | Pipe Underdrain |
| ○ | ○ | Light Pole |
| ○ | ○ | Boring |
| ○ | ○ | Panel Type |

DESIGN STRESSES

FIELD UNITS

- $f'c = 3,500$ psi
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 50,000$ psi (M270 Grade 50)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions

GENERAL PLAN AND ELEVATION I
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3086+45.54 TO 3092+81.73
STRUCTURE NO. 016-Z038

5/30/2018
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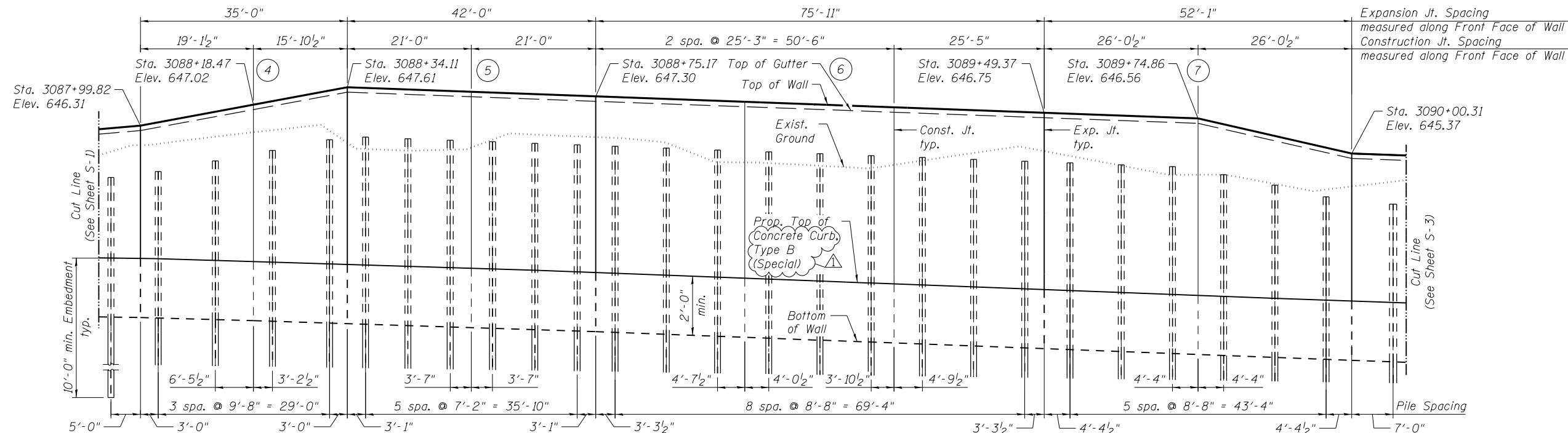
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DEPARTMENT OF TRANSPORTATION

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STRUCTURE NO. 016-Z038

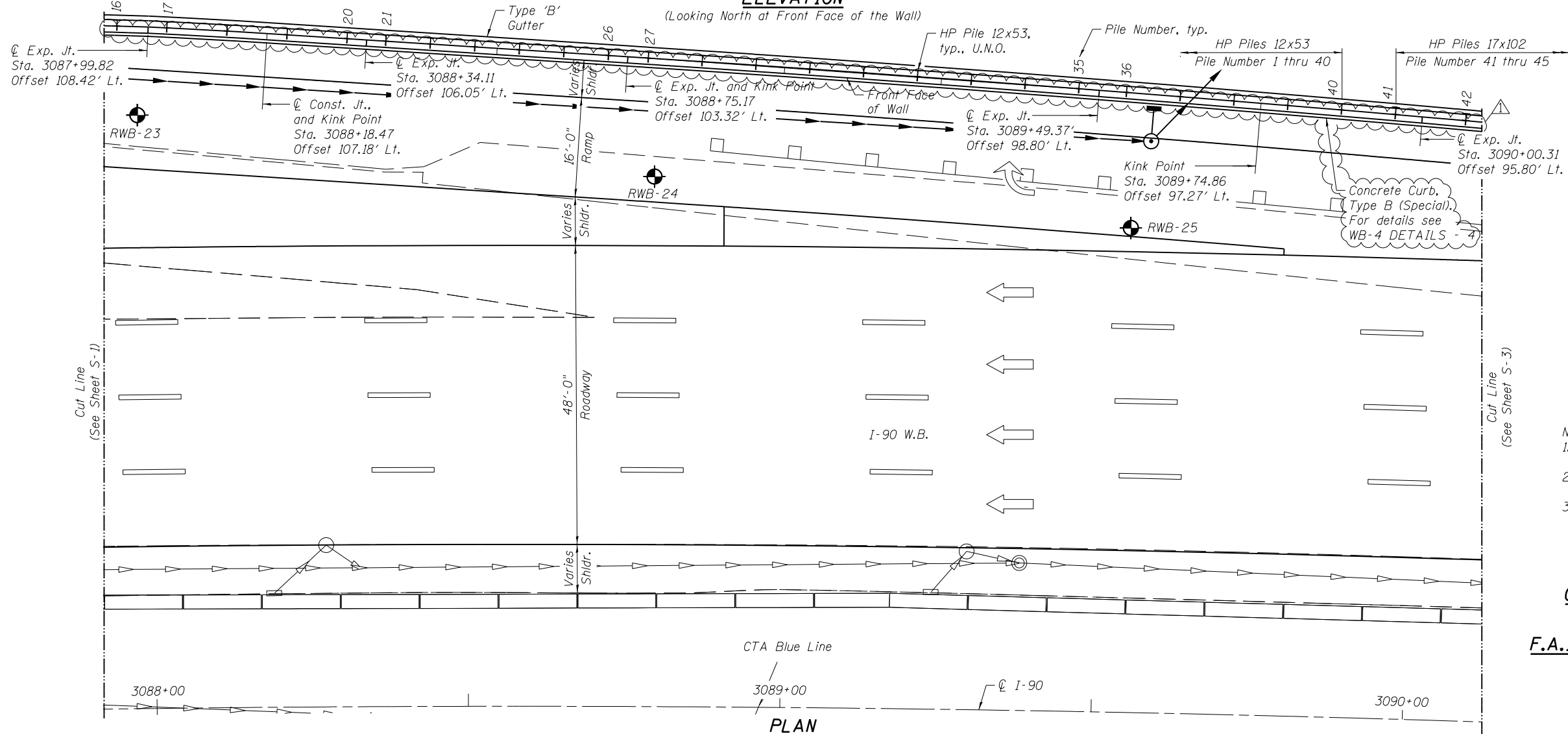
SHEET NO. S-1 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	517
CONTRACT NO. 60Y39			ILLINOIS FED. AID PROJECT	

650'-0" Beginning of Wall to End of Wall measured along Front Face of Wall



ELEVATION
(Looking North at Front Face of the Wall)



PLAN

- Notes:
1. For continuation, see Sheet S-3 of 12.
 2. For Legend and Notes, see Sheet S-1 of 12.
 3. For panel details see Sheets S-4 thru S-7 of 12.

GENERAL PLAN AND ELEVATION II
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3086+45.54 TO 3092+81.73
STRUCTURE NO. 016-Z038

5/30/2018
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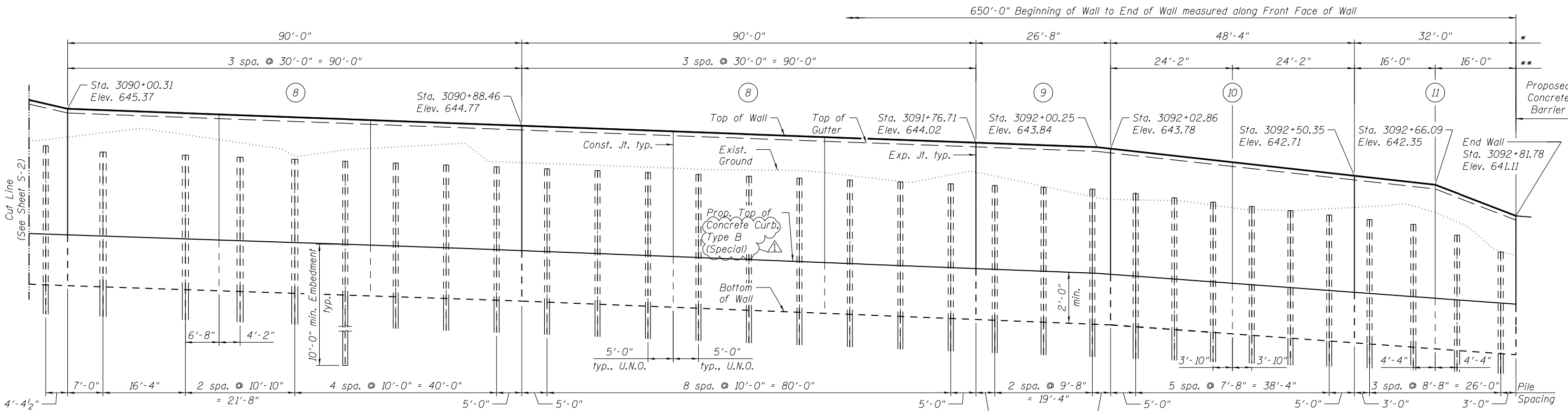
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PLOT DATE = 01/19/2018	CHECKED - PAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-4 PLAN & ELEVATION - 2
STRUCTURE NO. 016-Z038

SHEET NO. S-2 OF 12 SHEETS

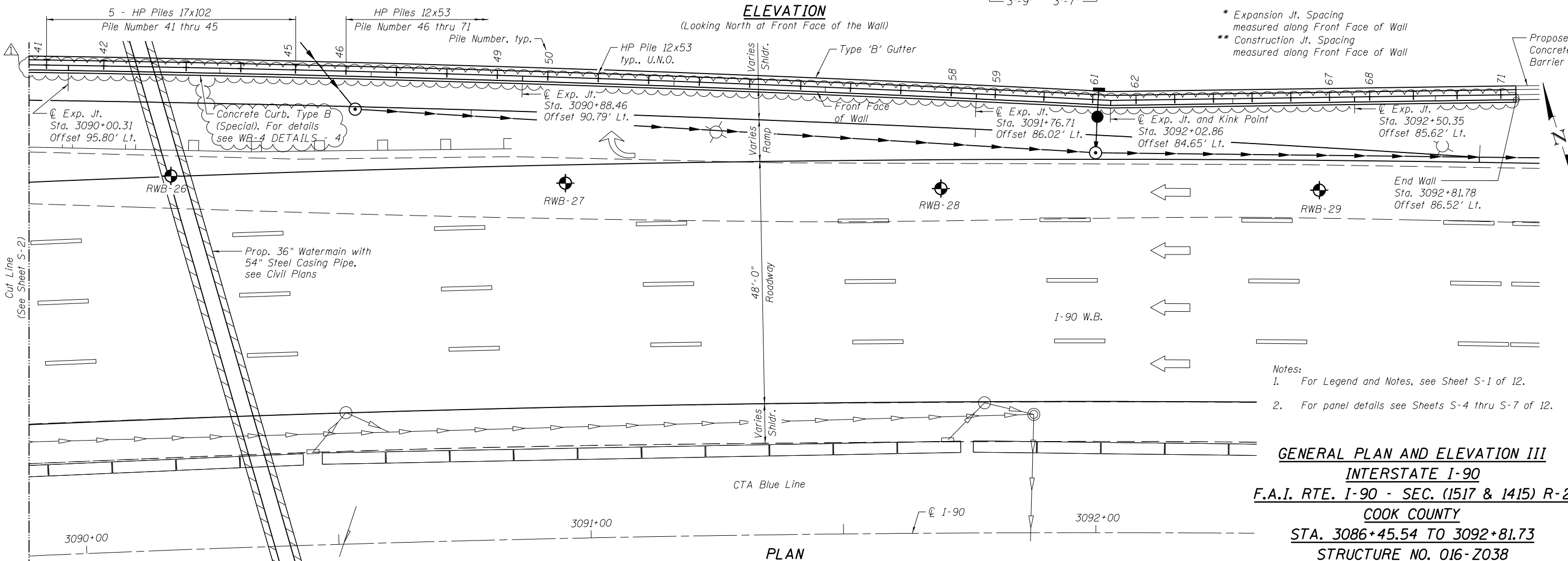
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	518
CONTRACT NO. 60Y39				



ELEVATION

(Looking North at Front Face of the Wall)

- * Expansion Jt. Spacing measured along Front Face of Wall
- ** Construction Jt. Spacing measured along Front Face of Wall



PLAN

- Notes:
1. For Legend and Notes, see Sheet S-1 of 12.
 2. For panel details see Sheets S-4 thru S-7 of 12.

GENERAL PLAN AND ELEVATION III
INTERSTATE I-90
F.A.I. RTE. I-90 - SEC. (1517 & 1415) R-2
COOK COUNTY
STA. 3086+45.54 TO 3092+81.73
STRUCTURE NO. 016-Z038

5/30/2018
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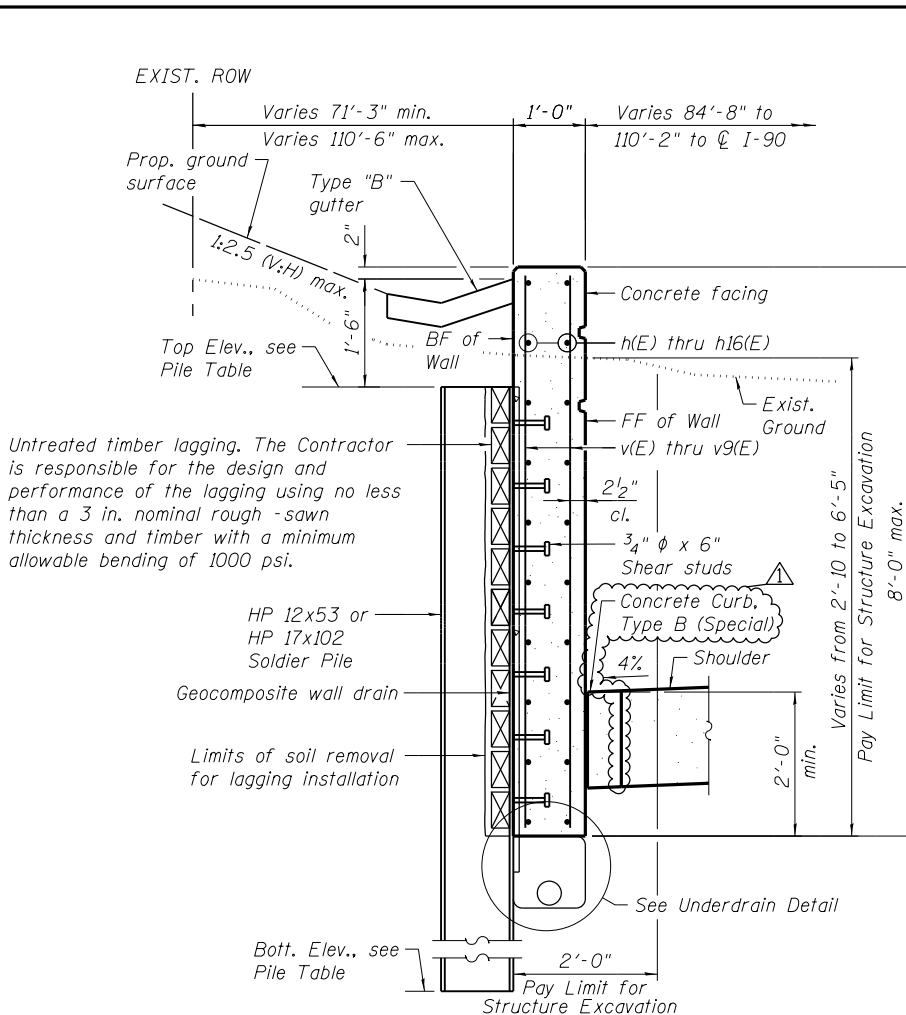
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

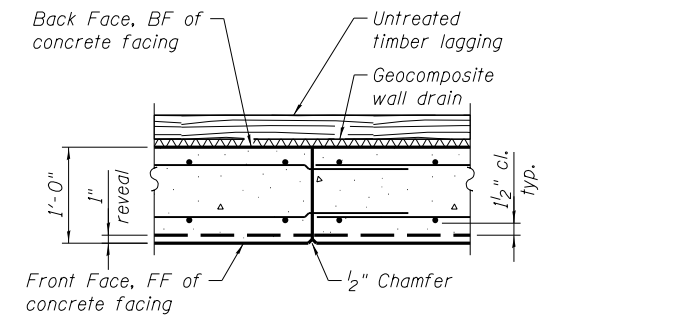
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STRUCTURE NO. 016-Z038

SHEET NO. S-3 OF 12 SHEETS

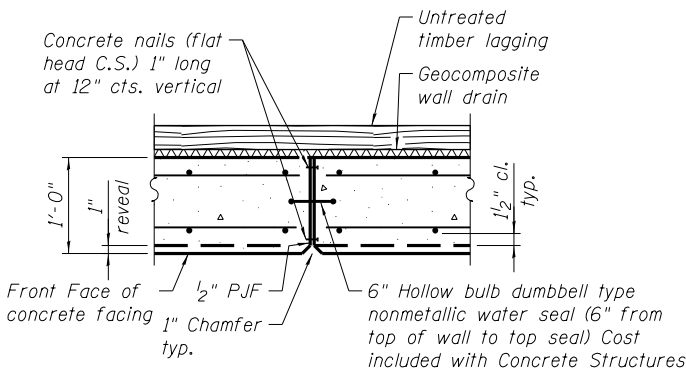
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	519
CONTRACT NO. 60Y39				



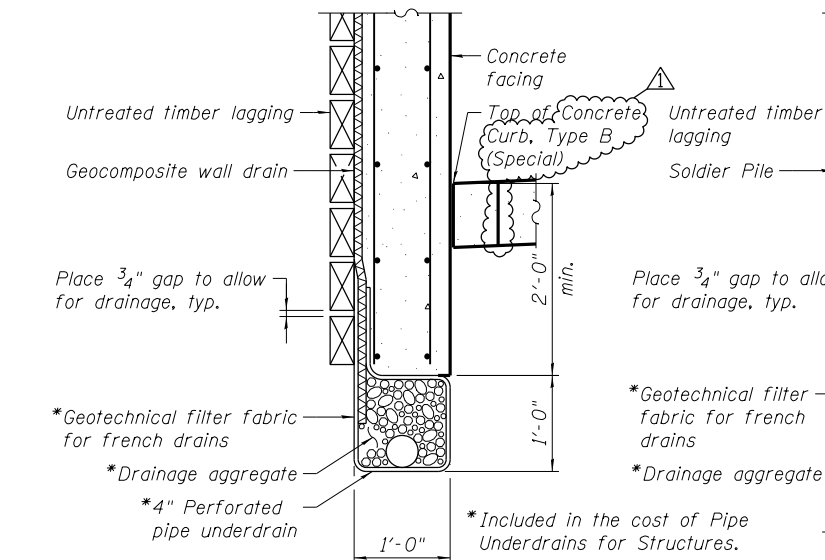
SECTION THRU DRIVEN SOLDIER PILE WALL



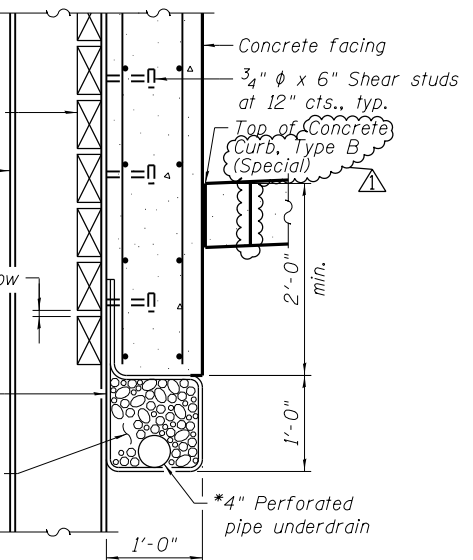
CONSTRUCTION JOINT



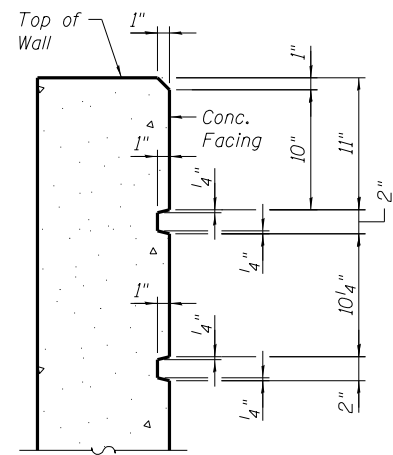
EXPANSION JOINT



BETWEEN SOLDIER PILES



AT SOLDIER PILES



RUSTICATION DETAIL AT TOP OF WALL

Untreated timber lagging. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending of 1000 psi.

HP 12x53 or HP 17x102 Soldier Pile

Geocomposite wall drain

Limits of soil removal for lagging installation

See Underdrain Detail

Bott. Elev., see Pile Table

Pay Limit for Structure Excavation

Pay Limit for Structure Excavation 8'-0" max.

5/30/2018
MODEL: Sheet
D158015-sh1-PRWB-4_DET04.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

USER NAME = EVaysman
DESIGNED - EV
CHECKED - PAH
PLOT SCALE =
DRAWN - EV
PLOT DATE = 01/19/2018
CHECKED - PAH

DESIGNED - EV
CHECKED - PAH
DRAWN - EV
CHECKED - PAH

REVISED - 06/01/2018 - PAH
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL WB-4 DETAILS - 4
STRUCTURE NO. 016-2038

SHEET NO. S-7 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	523
CONTRACT NO. 60Y39				

ILLINOIS FED. AID PROJECT

REV. 6/4/18

PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
1	HP 12X53	642.02	632.02	10	3
2	HP 12X53	642.18	632.18	10	3
3	HP 12X53	642.35	631.35	11	4
4	HP 12X53	642.52	631.52	11	4
5	HP 12X53	642.68	631.68	11	4
6	HP 12X53	642.85	631.85	11	4
7	HP 12X53	643.01	632.01	11	4
8	HP 12X53	643.18	631.18	12	5
9	HP 12X53	643.36	631.36	12	5
10	HP 12X53	643.53	631.53	12	5
11	HP 12X53	643.70	631.70	12	5
12	HP 12X53	643.87	631.87	12	5
13	HP 12X53	644.04	631.04	13	6
14	HP 12X53	644.21	631.21	13	6
15	HP 12X53	644.39	631.39	13	6
16	HP 12X53	644.56	631.56	13	6
17	HP 12X53	644.75	631.75	13	6
18	HP 12X53	645.11	631.11	14	7
19	HP 12X53	645.47	631.47	14	7
20	HP 12X53	645.83	630.83	15	8
21	HP 12X53	645.92	630.92	15	8
22	HP 12X53	645.87	630.87	15	8
23	HP 12X53	645.82	630.82	15	8
24	HP 12X53	645.76	630.76	15	8
25	HP 12X53	645.71	630.71	15	8
26	HP 12X53	645.66	630.66	15	8
27	HP 12X53	645.61	630.61	15	8
28	HP 12X53	645.55	630.55	15	8
29	HP 12X53	645.49	630.49	15	8
30	HP 12X53	645.42	630.42	15	8
31	HP 12X53	645.36	630.36	15	8
32	HP 12X53	645.30	630.30	15	8
33	HP 12X53	645.23	630.23	15	8
34	HP 12X53	645.17	630.17	15	8
35	HP 12X53	645.11	630.11	15	8
36	HP 12X53	645.05	630.05	15	8
37	HP 12X53	644.99	629.99	15	8
38	HP 12X53	644.93	629.93	15	8

PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
39	HP 12X53	644.70	629.70	15	8
40	HP 12X53	644.30	630.30	14	7
41	HP 17X102	643.90	624.90	19	12
42	HP 17X102	643.65	624.65	19	12
43	HP 17X102	643.53	624.53	19	12
44	HP 17X102	643.45	624.45	19	12
45	HP 17X102	643.37	624.37	19	12
46	HP 12X53	643.29	629.29	14	7
47	HP 12X53	643.22	629.22	14	7
48	HP 12X53	643.14	629.14	14	7
49	HP 12X53	643.07	629.07	14	7
50	HP 12X53	642.99	628.99	14	7
51	HP 12X53	642.92	628.92	14	7
52	HP 12X53	642.84	628.84	14	7
53	HP 12X53	642.77	628.77	14	7
54	HP 12X53	642.69	628.69	14	7
55	HP 12X53	642.62	628.62	14	7
56	HP 12X53	642.54	628.54	14	7
57	HP 12X53	642.47	628.47	14	7
58	HP 12X53	642.39	628.39	14	7
59	HP 12X53	642.33	628.33	14	7
60	HP 12X53	642.25	628.25	14	7
61	HP 12X53	642.18	628.18	14	7
62	HP 12X53	642.00	628.00	14	7
63	HP 12X53	641.83	627.83	14	7
64	HP 12X53	641.66	627.66	14	7
65	HP 12X53	641.49	627.49	14	7
66	HP 12X53	641.32	627.32	14	7
67	HP 12X53	641.15	628.15	13	6
68	HP 12X53	640.97	627.97	13	6
69	HP 12X53	640.78	627.78	13	6
70	HP 12X53	640.13	627.13	13	6
71	HP 12X53	639.03	627.03	12	5

Notes:
1. For panel reinforcement, see Sheets S-4 thru S-6 of 12.

Bench Mark: TBM #18 "□" cut on top of barrier wall by light pole FD2, mile marker 80.74, on the North side of I-90 WB, east of the bridge. Elev. 639.02.

Existing Structure: None

Notes:

1. Offsets are measured from C I-90 to Front Face of Wall.
2. The geometry of the wall between Sta. 3098+05.50 to Sta. 3102+78.34 follows curvature of C I-90 . The wall may be constructed on chords between expansion/construction joints.
3. Contractor shall install piles to avoid existing and proposed lighting cables. The pile may be relocated up to 1'-0" from the location shown on these sheets.

INDEX OF SHEETS

S-1	Retaining Wall WB-5 General Plan & Elevation - 1
S-2	Retaining Wall WB-5 General Plan & Elevation - 2
S-3	Retaining Wall WB-5 General Plan & Elevation - 3
S-4	Retaining Wall WB-5 General Plan & Elevation - 4
S-5	Retaining Wall WB-5 Details - 1
S-6	Retaining Wall WB-5 Details - 2
S-7	Retaining Wall WB-5 Details - 3
S-8	Retaining Wall WB-5 Details - 4
S-9	Retaining Wall WB-5 Soil Boring Logs - 1
S-10	Retaining Wall WB-5 Soil Boring Logs - 2
S-11	Retaining Wall WB-5 Soil Boring Logs - 3
S-12	Retaining Wall WB-5 Soil Boring Logs - 4
S-13	Retaining Wall WB-5 Soil Boring Logs - 5
S-14	Retaining Wall WB-5 Soil Boring Logs - 6

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	272.2
Stud Shear Connectors	Each	752
Reinforcement Bars, Epoxy Coated	Pound	35,830
Name Plates	Each	1
Furnishing Soldier Piles (HP Section)	Foot	3,375
Driving Soldier Piles	Foot	3,375
Untreated Timber Lagging	Sq Ft	4,507
Concrete Sealer	Sq Ft	5,675
Geocomposite Wall Drain	Sq Yd	386
Pipe Underdrains for Structures 4"	Foot	1,018

DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 50,000$ psi (M270 Grade 50)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2016 Interim Revisions

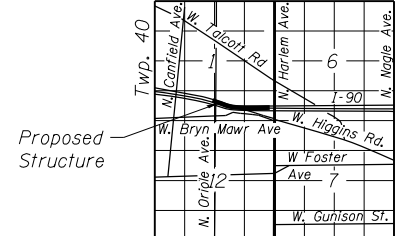
LEGEND:

Existing	Proposed	Inlet
○	●	Catch Basin
○	○	Manhole
—	—	Storm Sewer
—	—	Pipe Underdrain
—	—	Exist. Underground combined sewer
—	—	Fence
○	○	Light Pole
○	○	Boring
—	—	Lighting cable
—	—	Concrete Curb, Type B (SPECIAL)
F.F.		- denotes Front Face
B.F.		- denotes Back Face
E.F.		- denotes Each Face

Panel Type

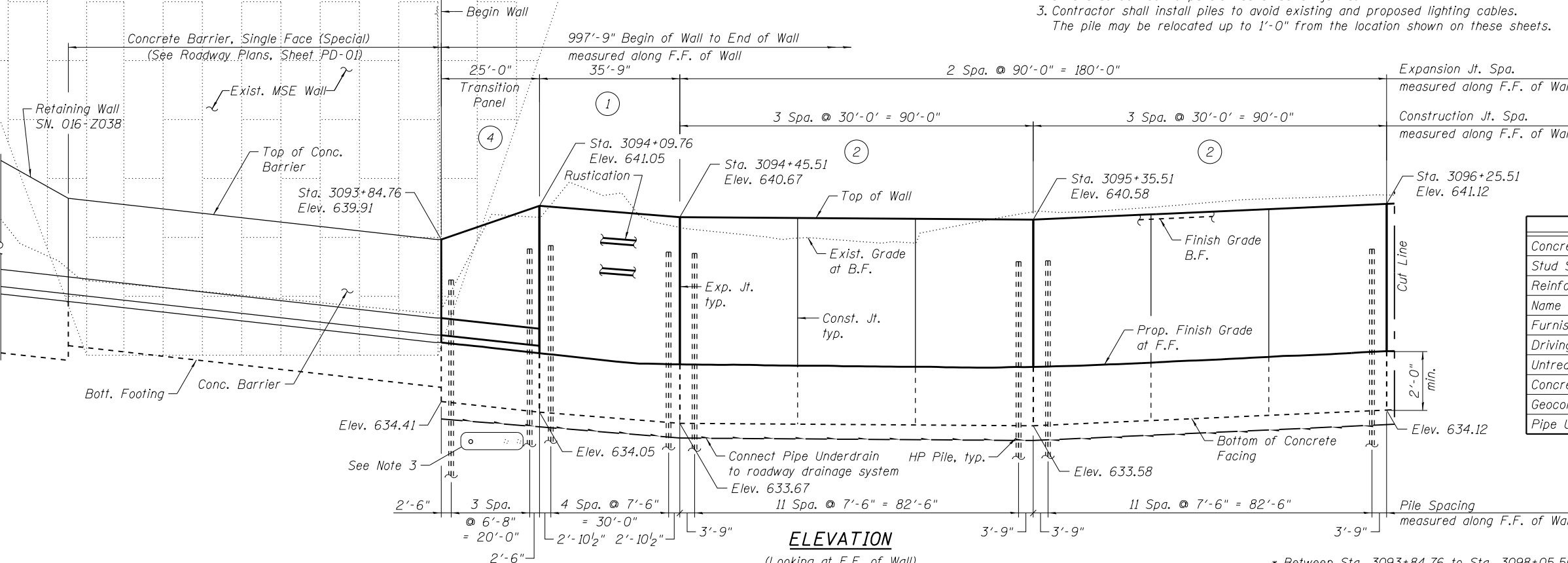
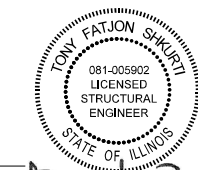
Slope

Range 12E & 13E, 3 rd. P.M.



LOCATION SKETCH

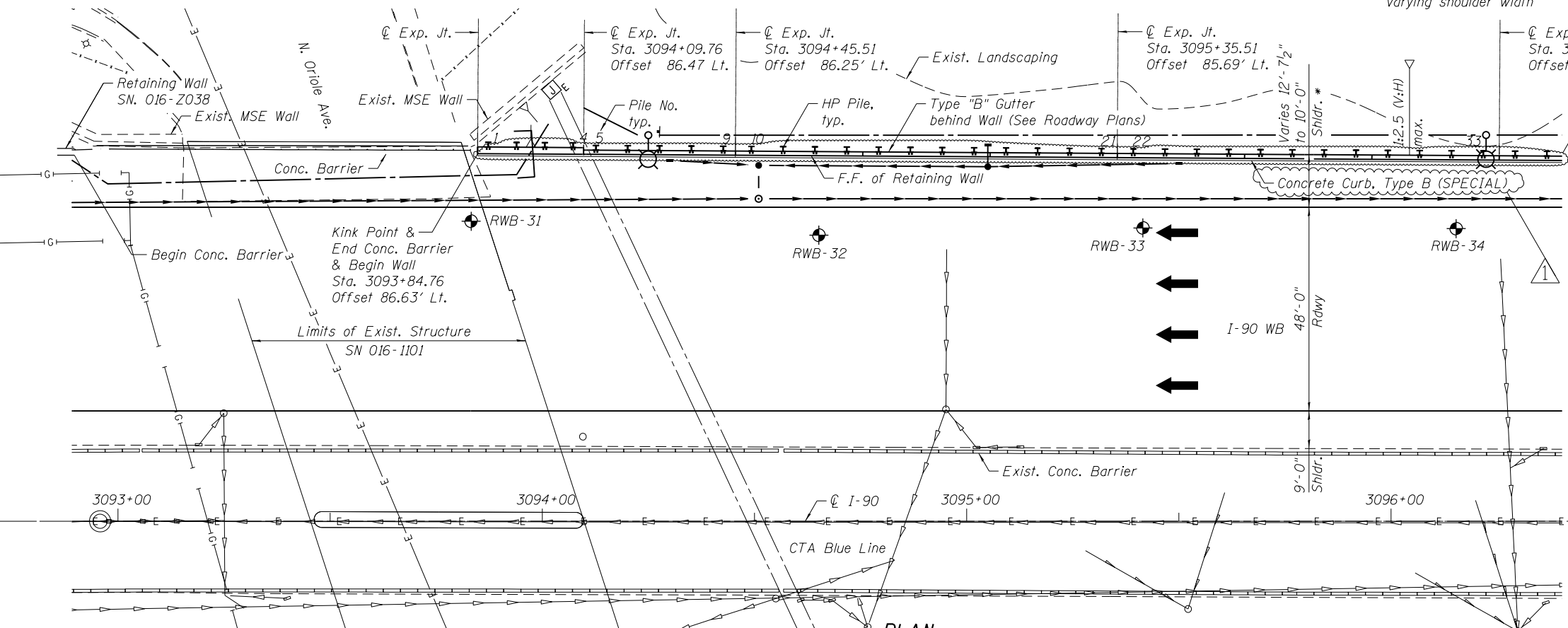
Signed: *[Signature]*
 Date: 1/19/2018
 Exp: 11/30/2018
 Sheets: S-1 thru S-14



ELEVATION

(Looking at F.F. of Wall)

* Between Sta. 3093+84.76 to Sta. 3098+05.50 varying shoulder width



PLAN



USER NAME = ogliganc	DESIGNED ACF	REVISED - 06/01/2018 - AMG
CHECKED MLK	REVISOR -	
DRAWN LK	REVISOR -	
DATE 01/19/2018	REVISOR -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

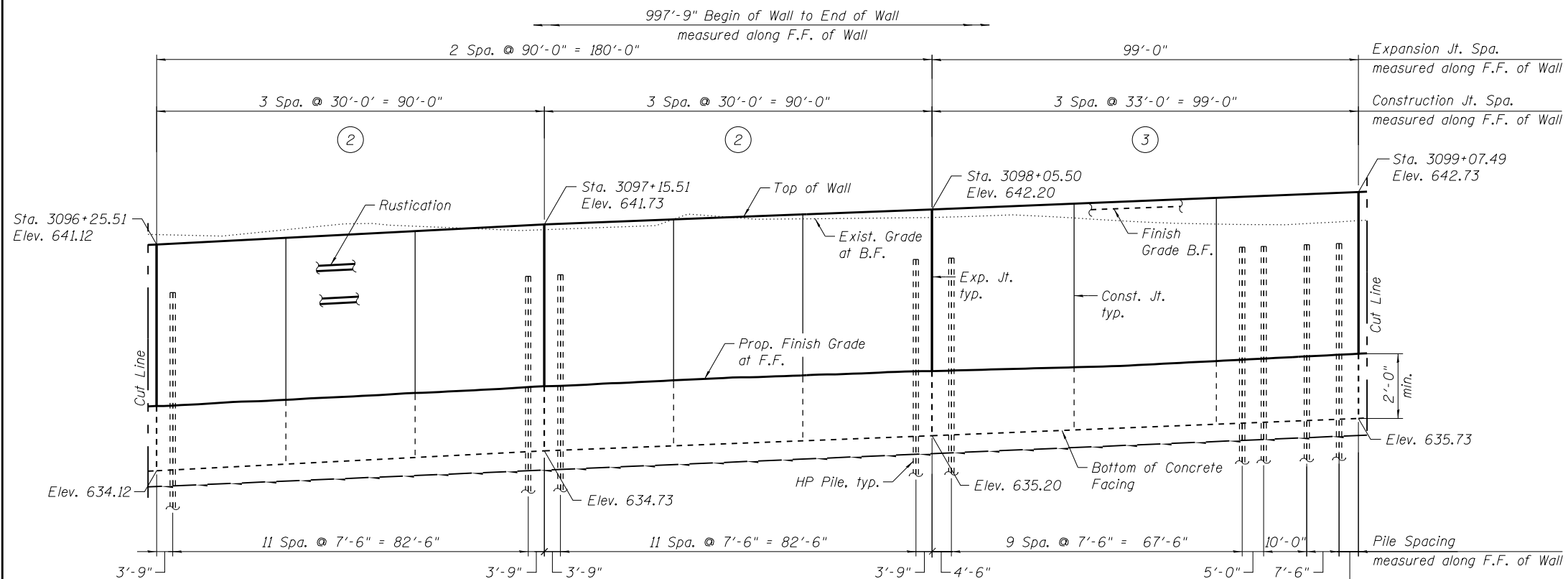
RETAINING WALL WB-5 GENERAL PLAN & ELEVATION - 1
 STRUCTURE NO. 016-2039

SHEET NO. 1 OF 14 SHEETS

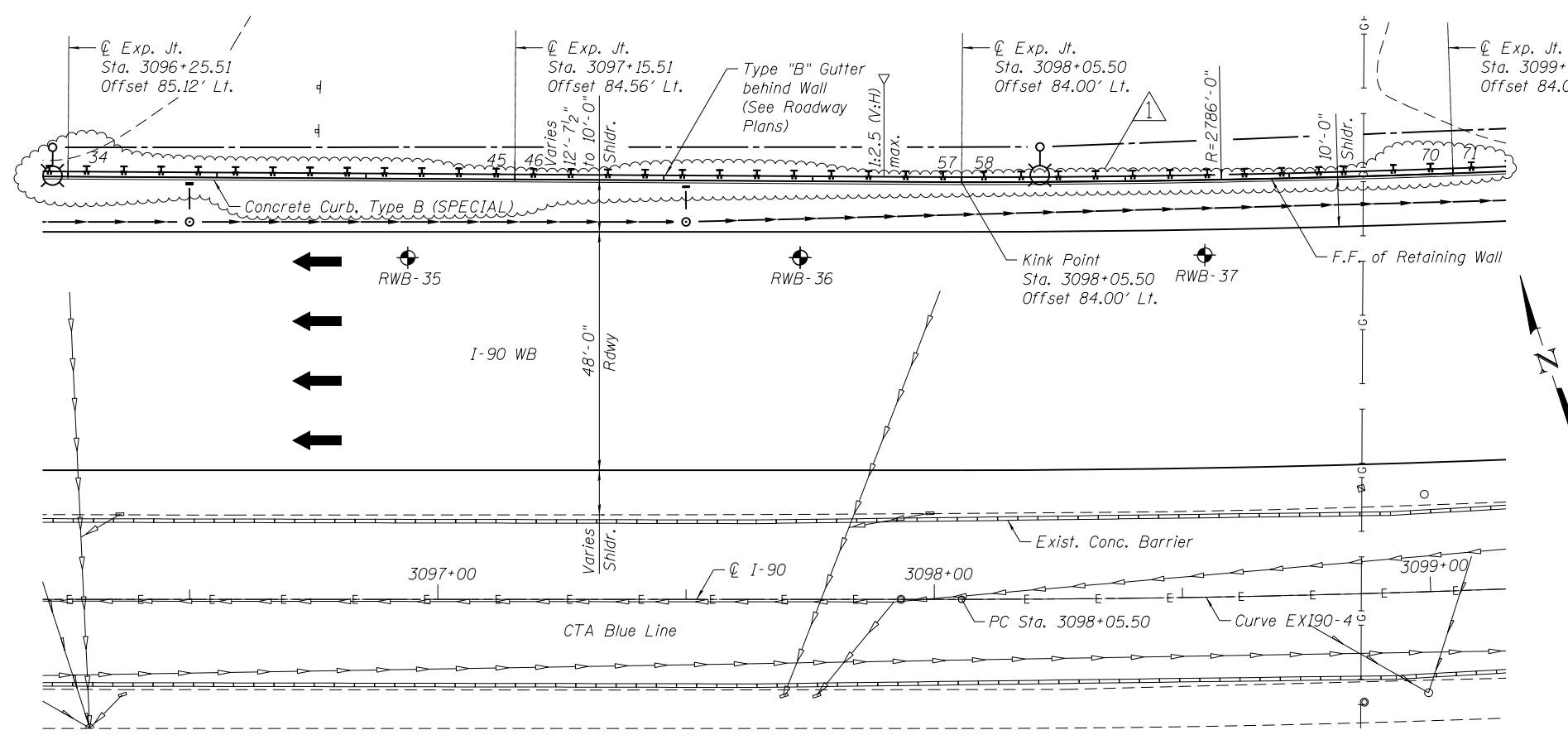
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	529
CONTRACT NO. 60Y39				

PILE TABLE

PILE NO.	SIZE	TOP ELEV.	BOTT. ELEV.	PILE LENGTH (FEET)	NO. OF SHEAR STUDS
1	HP14x73	638.36	613.36	25.00	4
2	HP14x73	638.66	613.66	25.00	5
3	HP14x73	638.97	613.97	25.00	5
4	HP14x73	639.27	614.27	25.00	6
5	HP14x73	639.35	614.35	25.00	6
6	HP14x73	639.27	614.27	25.00	6
7	HP14x73	639.19	614.19	25.00	6
8	HP14x73	639.11	614.11	25.00	6
9	HP14x73	639.03	614.03	25.00	6
10	HP14x73	639.00	614.00	25.00	6
11	HP14x73	638.99	613.99	25.00	6
12	HP14x73	638.98	613.98	25.00	6
13	HP14x73	638.98	613.98	25.00	6
14	HP14x73	638.97	613.97	25.00	6
15	HP14x73	638.96	613.96	25.00	6
16	HP14x73	638.95	613.95	25.00	6
17	HP14x73	638.95	613.95	25.00	6
18	HP14x73	638.94	613.94	25.00	6
19	HP14x73	638.93	613.93	25.00	6
20	HP14x73	638.92	613.92	25.00	6
21	HP14x73	638.92	613.92	25.00	6
22	HP14x73	638.94	613.94	25.00	6
23	HP14x73	638.98	613.98	25.00	6
24	HP14x73	639.03	614.03	25.00	6
25	HP14x73	639.07	614.07	25.00	6
26	HP14x73	639.12	614.12	25.00	6
27	HP14x73	639.16	614.16	25.00	6
28	HP14x73	639.21	614.21	25.00	6
29	HP14x73	639.25	614.25	25.00	6
30	HP14x73	639.30	614.30	25.00	6
31	HP14x73	639.34	614.34	25.00	6
32	HP14x73	639.39	614.39	25.00	6
33	HP14x73	639.43	614.43	25.00	6
34	HP14x73	639.48	614.48	25.00	6
35	HP14x73	639.53	614.53	25.00	6
36	HP14x73	639.58	614.58	25.00	6
37	HP14x73	639.63	614.63	25.00	6
38	HP14x73	639.68	614.68	25.00	6
39	HP14x73	639.73	614.73	25.00	6
40	HP14x73	639.78	614.78	25.00	6
41	HP14x73	639.83	614.83	25.00	6
42	HP14x73	639.89	614.89	25.00	6
43	HP14x73	639.94	614.94	25.00	6
44	HP14x73	639.99	614.99	25.00	6
45	HP14x73	640.04	615.04	25.00	6
46	HP14x73	640.08	615.08	25.00	6



ELEVATION
(Looking at F.F. of Wall)



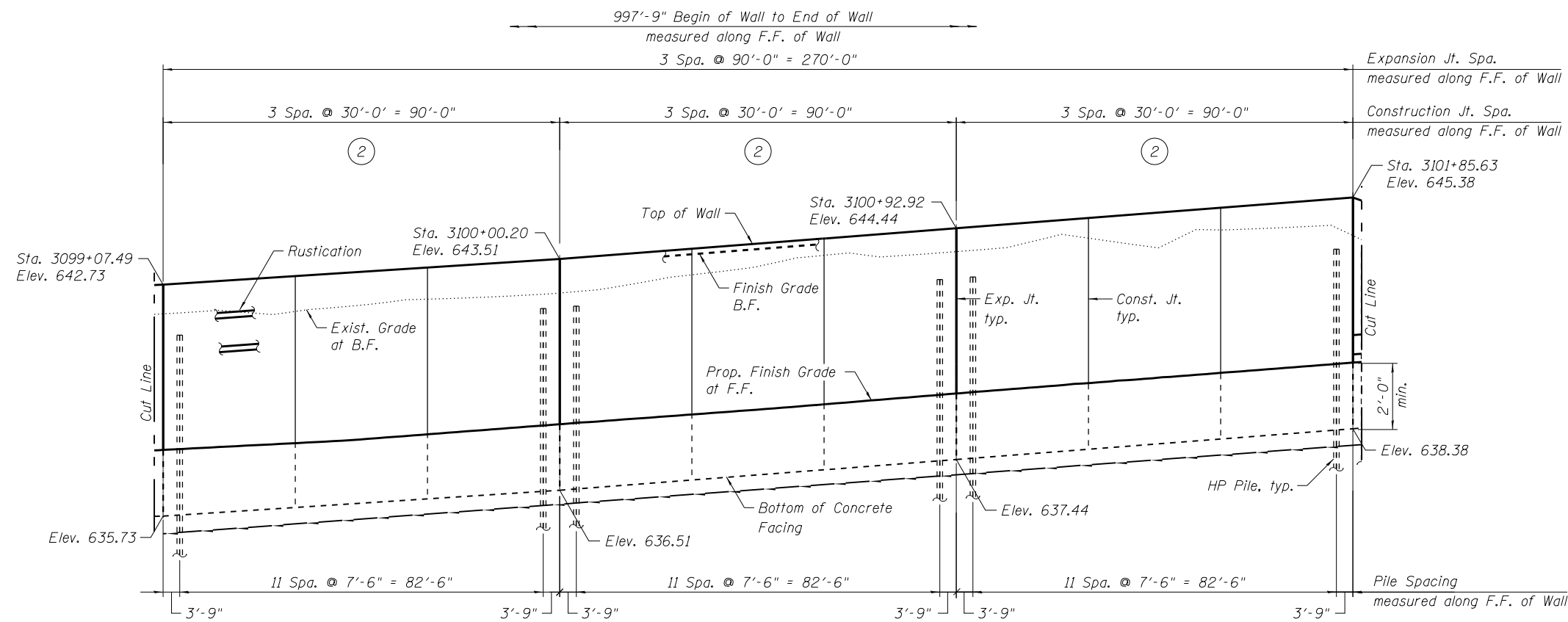
PLAN

EXIST. CURVE EX190-4

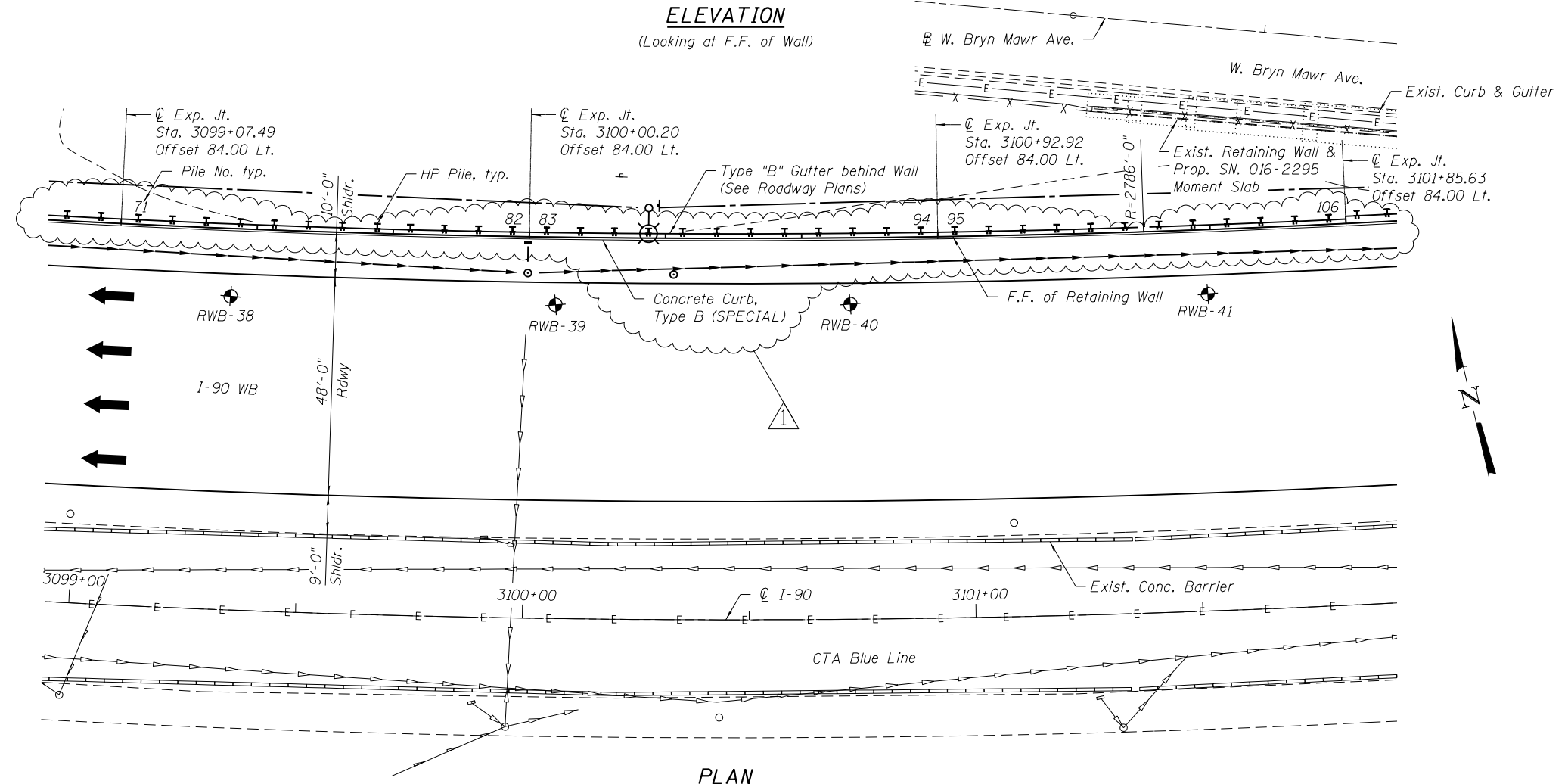
PI Sta. = 3102+83.35
 $\Delta = 18^\circ 54' 22''$ (LT)
 $D = 1^\circ 59' 47''$
 $R = 2,870.00'$
 $T = 477.85'$
 $L = 947.02'$
 $E = 39.51'$
 $e = 4.4\%$
 $T.R. = 90^\circ$
 S.E. Run = 265'
 P.C. Sta. = 3098+05.50
 P.T. Sta. = 3107+52.52

Notes:
1. For Legend and Notes, see Sheet 1 of 14.

	USER NAME = agligantic	DESIGNED ACF	REVISED - 06/01/2018 - AMG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL WB-5 GENERAL PLAN & ELEVATION - 2 STRUCTURE NO. 016-2039	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.16667" = 1'	CHECKED MLK	REVISED -			90	(1517 & 1415) R-2	COOK	734	530
	PLOT DATE = 5/30/2018	DRAWN LK	REVISED -			CONTRACT NO. 60Y39				
SHEET NO. 2 OF 14 SHEETS					ILLINOIS FED. AID PROJECT					



ELEVATION
(Looking at F.F. of Wall)

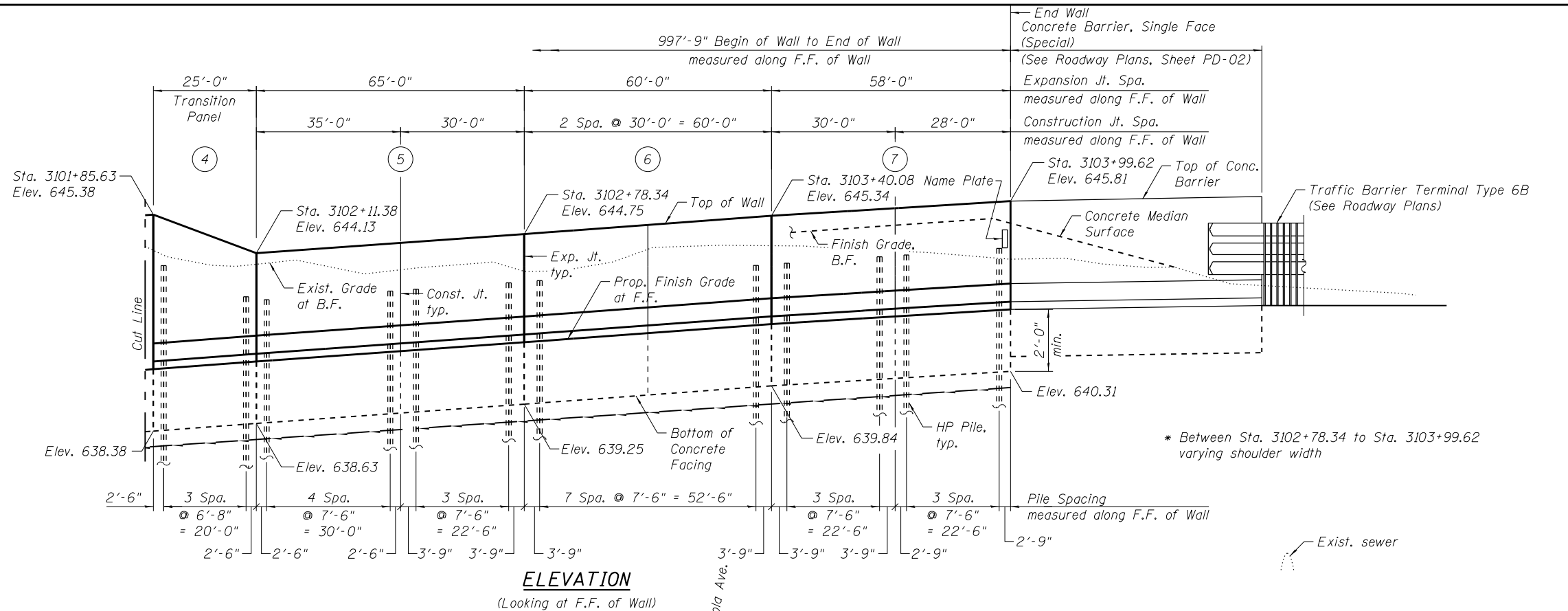


PLAN

PILE TABLE					
Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length (feet)	No. of Shear Studs
47	HP14x73	640.12	615.12	25.00	6
48	HP14x73	640.16	615.16	25.00	6
49	HP14x73	640.20	615.20	25.00	6
50	HP14x73	640.24	615.24	25.00	6
51	HP14x73	640.28	615.28	25.00	6
52	HP14x73	640.32	615.32	25.00	6
53	HP14x73	640.36	615.36	25.00	6
54	HP14x73	640.40	615.40	25.00	6
55	HP14x73	640.44	615.44	25.00	6
56	HP14x73	640.47	615.47	25.00	6
57	HP14x73	640.51	615.51	25.00	6
58	HP14x73	640.56	615.56	25.00	6
59	HP14x73	640.59	615.59	25.00	6
60	HP14x73	640.63	615.63	25.00	6
61	HP14x73	640.66	615.66	25.00	6
62	HP14x73	640.70	615.70	25.00	6
63	HP14x73	640.74	615.74	25.00	6
64	HP14x73	640.77	615.77	25.00	6
65	HP14x73	640.81	615.81	25.00	6
66	HP14x73	640.85	615.85	25.00	6
67	HP14x73	640.89	615.89	25.00	6
68	HP14x73	640.92	615.92	25.00	6
69	HP14x73	640.99	615.99	25.00	6
70	HP14x73	641.03	616.03	25.00	6
71	HP14x73	641.10	616.10	25.00	6
72	HP14x73	641.16	616.16	25.00	6
73	HP14x73	641.23	616.23	25.00	6
74	HP14x73	641.29	616.29	25.00	6
75	HP14x73	641.36	616.36	25.00	6
76	HP14x73	641.42	616.42	25.00	6
77	HP14x73	641.49	616.49	25.00	6
78	HP14x73	641.55	616.55	25.00	6
79	HP14x73	641.62	616.62	25.00	6
80	HP14x73	641.68	616.68	25.00	6
81	HP14x73	641.75	616.75	25.00	6
82	HP14x73	641.81	616.81	25.00	6
83	HP14x73	641.88	616.88	25.00	6
84	HP14x73	641.96	616.96	25.00	6
85	HP14x73	642.04	617.04	25.00	6
86	HP14x73	642.11	617.11	25.00	6
87	HP14x73	642.19	617.19	25.00	6
88	HP14x73	642.27	617.27	25.00	6
89	HP14x73	642.35	617.35	25.00	6
90	HP14x73	642.42	617.42	25.00	6
91	HP14x73	642.50	617.50	25.00	6
92	HP14x73	642.58	617.58	25.00	6
93	HP14x73	642.66	617.66	25.00	6
94	HP14x73	642.73	617.73	25.00	6
95	HP14x73	642.81	617.81	25.00	6
96	HP14x73	642.89	617.89	25.00	6
97	HP14x73	642.97	617.97	25.00	6
98	HP14x73	643.05	618.05	25.00	6
99	HP14x73	643.13	618.13	25.00	6
100	HP14x73	643.20	618.20	25.00	6
101	HP14x73	643.28	618.28	25.00	6

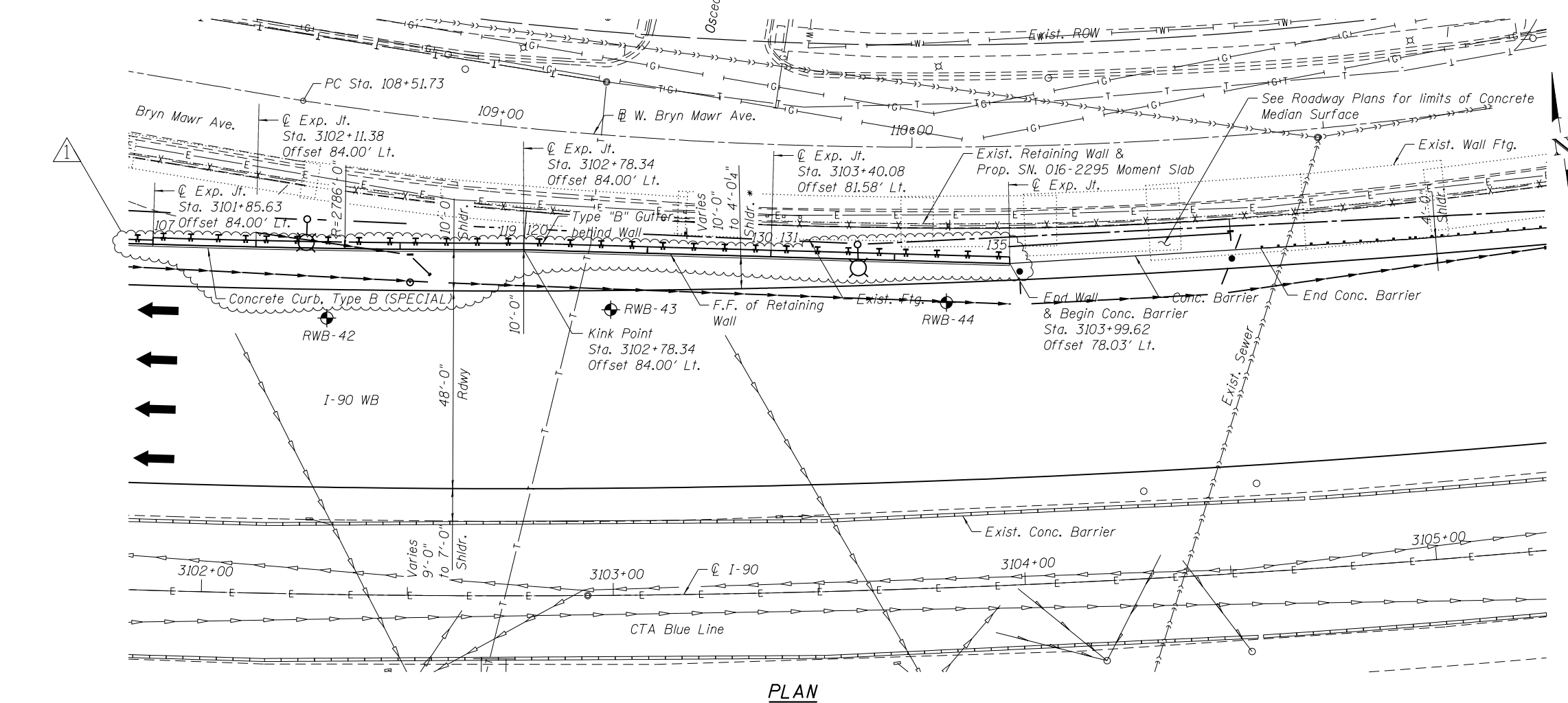
Notes:
1. For Legend and Notes, see Sheet 1 of 14.

	USER NAME = ogilvic	DESIGNED ACF	REVISED - 06/01/2018 - AMG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL WB-5 GENERAL PLAN & ELEVATION - 3 STRUCTURE NO. 016-2039	F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 531	
	PLOT SCALE = 0.16667' / in.	CHECKED MLK	REVISED -			CONTRACT NO. 60Y39					
	PLOT DATE = 5/30/2018	DRAWN LK	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE 01/19/2018	REVISED -			SHEET NO. 3 OF 14 SHEETS					



ELEVATION
(Looking at F.F. of Wall)

PILE TABLE					
Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length (feet)	No. of Shear Studs
102	HP14x73	643.36	618.36	25.00	6
103	HP14x73	643.44	618.44	25.00	6
104	HP14x73	643.52	618.52	25.00	6
105	HP14x73	643.60	618.60	25.00	6
106	HP14x73	643.67	618.67	25.00	6
107	HP14x73	643.59	618.59	25.00	6
108	HP14x73	643.26	618.26	25.00	5
109	HP14x73	642.92	617.92	25.00	5
110	HP14x73	642.59	617.59	25.00	4
111	HP14x73	642.49	617.49	25.00	4
112	HP14x73	642.55	617.55	25.00	4
113	HP14x73	642.62	617.62	25.00	4
114	HP14x73	642.68	617.68	25.00	4
115	HP14x73	642.75	617.75	25.00	4
116	HP14x73	642.81	617.81	25.00	4
117	HP14x73	642.89	617.89	25.00	4
118	HP14x73	642.97	617.97	25.00	4
119	HP14x73	643.04	618.04	25.00	4
120	HP14x73	643.12	618.12	25.00	4
121	HP14x73	643.19	618.19	25.00	4
122	HP14x73	643.27	618.27	25.00	4
123	HP14x73	643.34	618.34	25.00	4
124	HP14x73	643.42	618.42	25.00	4
125	HP14x73	643.49	618.49	25.00	4
126	HP14x73	643.56	618.56	25.00	4
127	HP14x73	643.64	618.64	25.00	4
128	HP14x73	643.70	618.70	25.00	4
129	HP14x73	643.76	618.76	25.00	4
130	HP14x73	643.82	618.82	25.00	4
131	HP14x73	643.88	618.88	25.00	4
132	HP14x73	643.93	618.93	25.00	4
133	HP14x73	643.99	618.99	25.00	4
134	HP14x73	644.06	619.06	25.00	4
135	HP14x73	644.12	619.12	25.00	4



PLAN

STATION 3093+84.76
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 90
STR. NO. 016-2039

NAME PLATE
See Std. 515001

Notes:
1. For Legend and Notes, see Sheet 1 of 14.



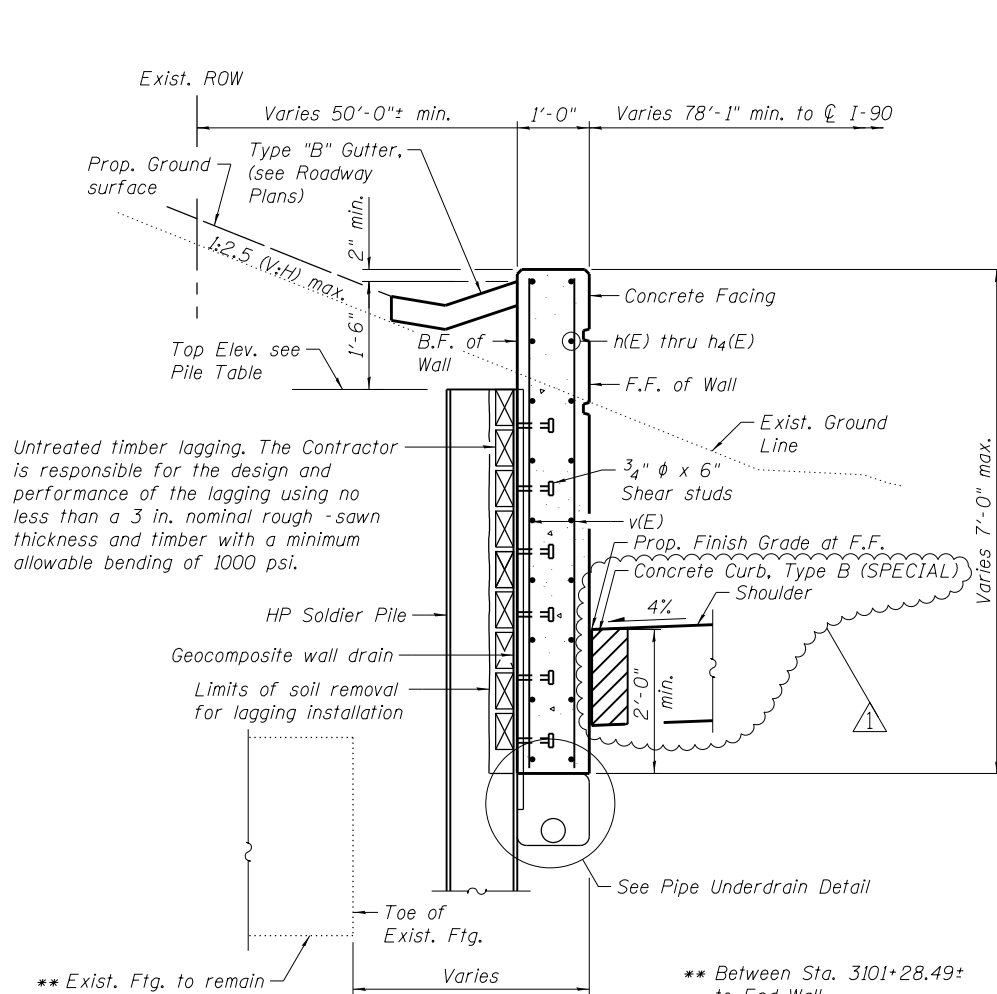
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CHECKED MLK	REVISOR -	
DRAWN LK	REVISOR -	
DATE 01/19/2018	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

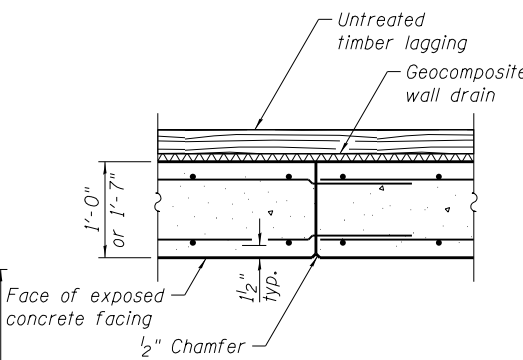
RETAINING WALL WB-5 GENERAL PLAN & ELEVATION - 4
STRUCTURE NO. 016-2039

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	532
CONTRACT NO. 60Y39				

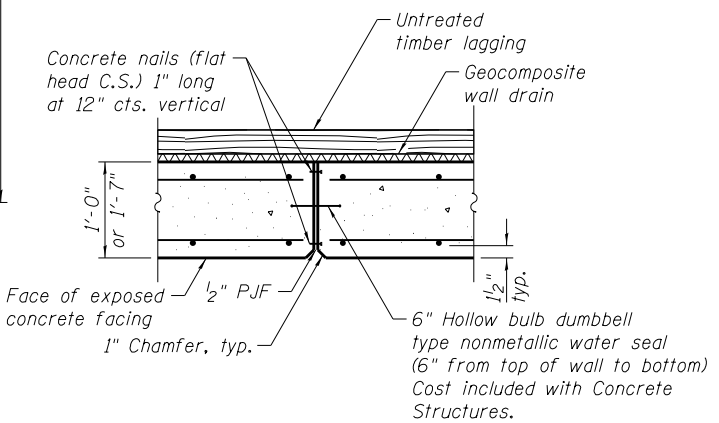
SHEET NO. 4 OF 14 SHEETS



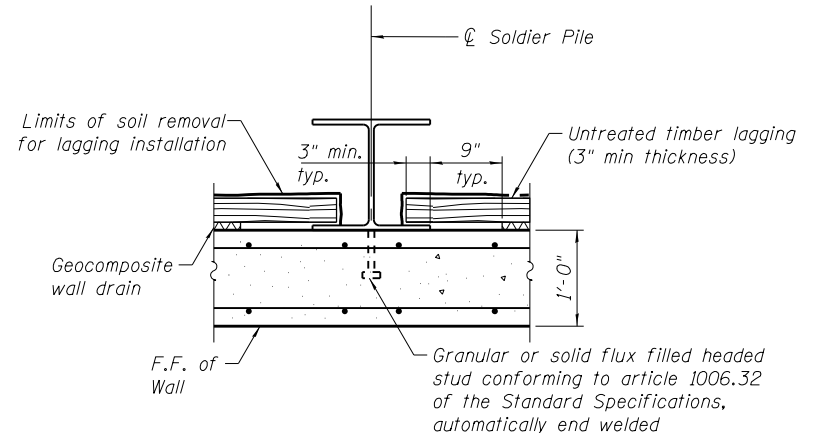
SECTION C-C
SECTION THRU DRIVEN
SOLDIER PILE WALL



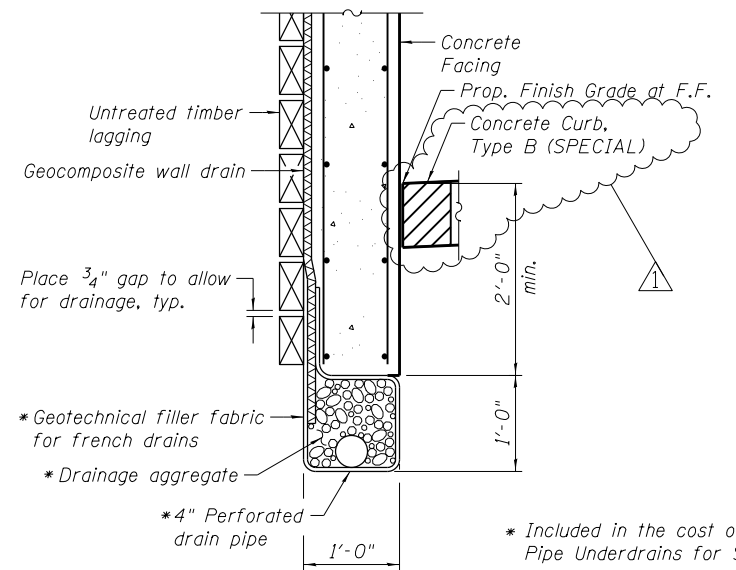
CONSTRUCTION JOINT



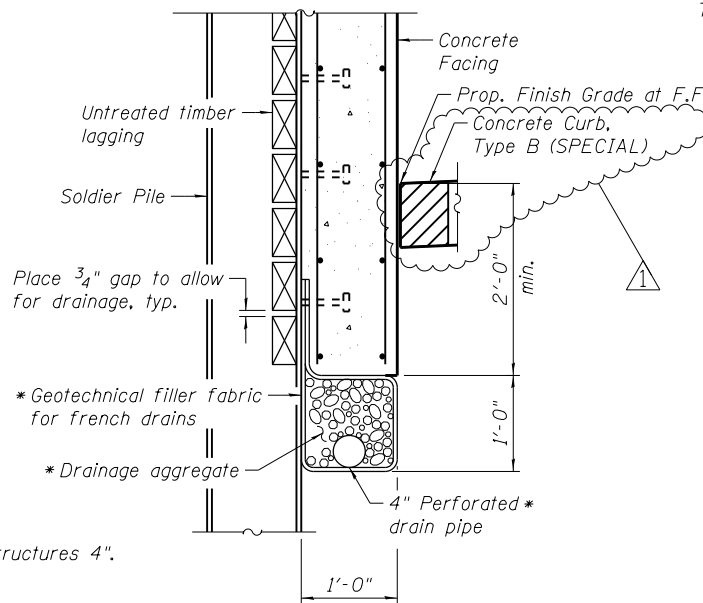
EXPANSION JOINT



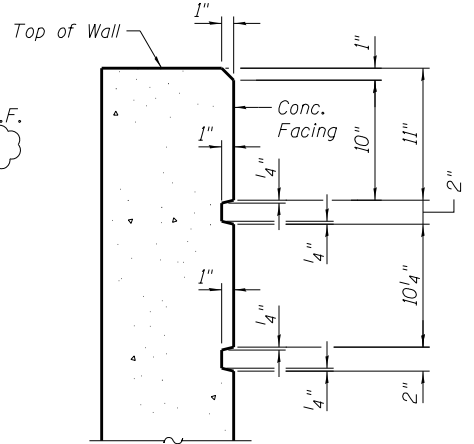
SECTION THRU SOLDIER PILE



BETWEEN SOLDIER PILES



AT SOLDIER PILES



RUSTICATION DETAIL
AT TOP OF WALL

- Notes:
1. For panel reinforcement, see Sheets 5 through 6 of 14.
 2. See Roadway Plans for material behind the retaining wall.
 3. For location of section C-C, see Sheet 5 of 14.
 4. Concrete Sealer shall be applied to exposed surfaces of the front face and the top of wall.



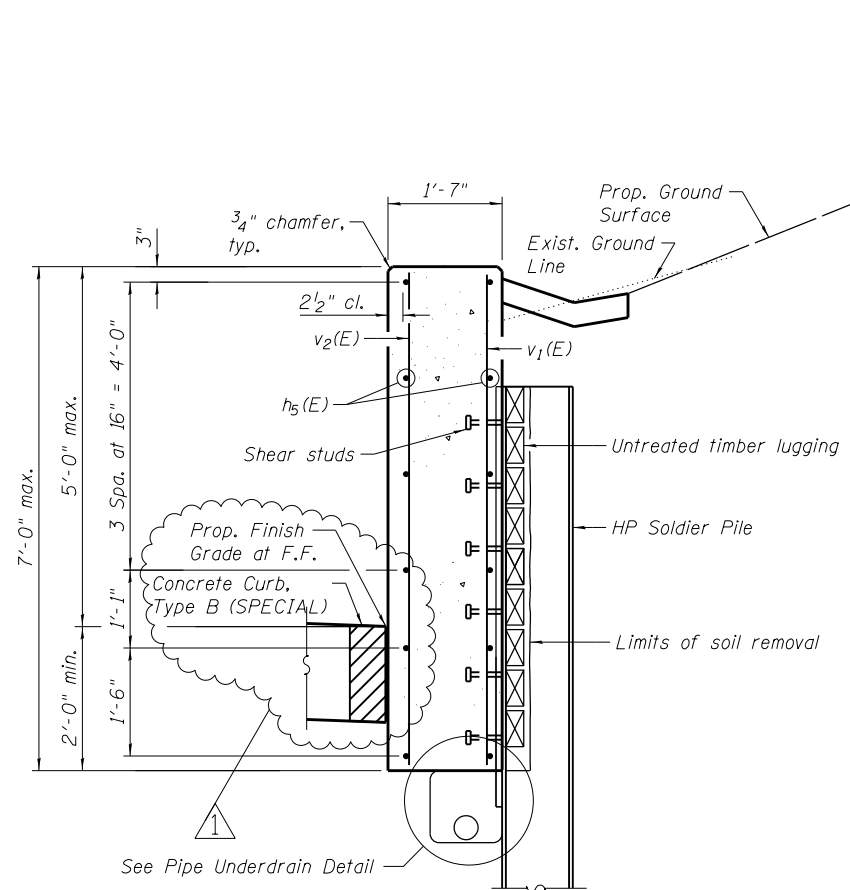
USER NAME = ogilvic	DESIGNED ACF	REVISED - 06/01/2018 - AMG
PLOT SCALE = 0:1.999996 '1' / 1"	CHECKED MLK	REVISED -
PLOT DATE = 5/30/2018	DRAWN LK	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

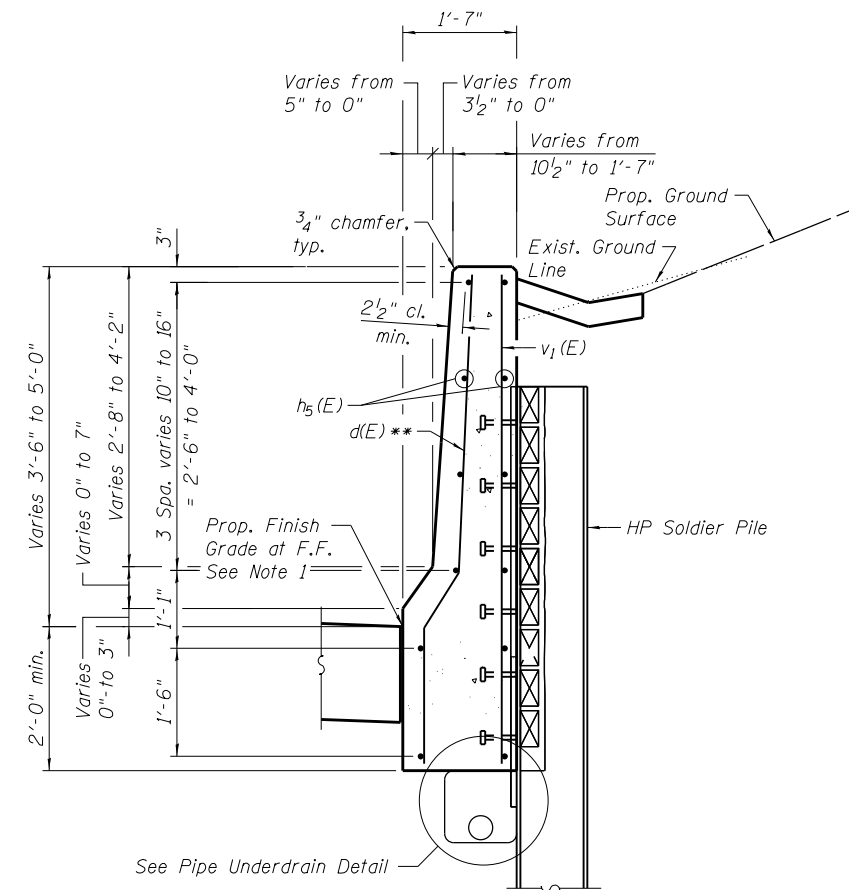
RETAINING WALL WB-5 DETAILS - 3
STRUCTURES NO. 016-2039

SHEET NO. 7 OF 14 SHEETS

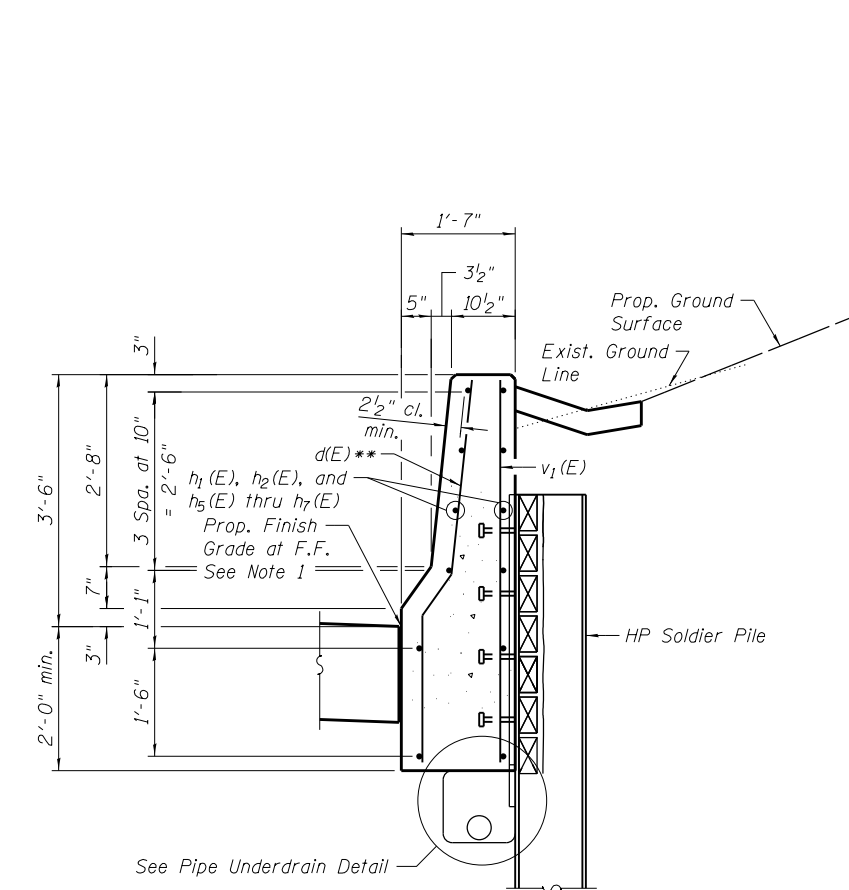
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	535
CONTRACT NO. 60Y39				



SECTION D1-D1



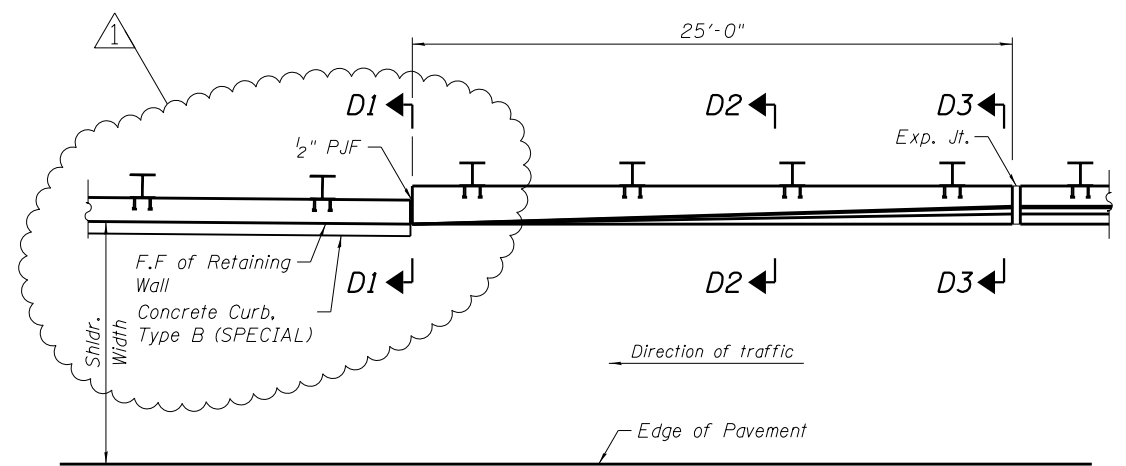
SECTION D2-D2



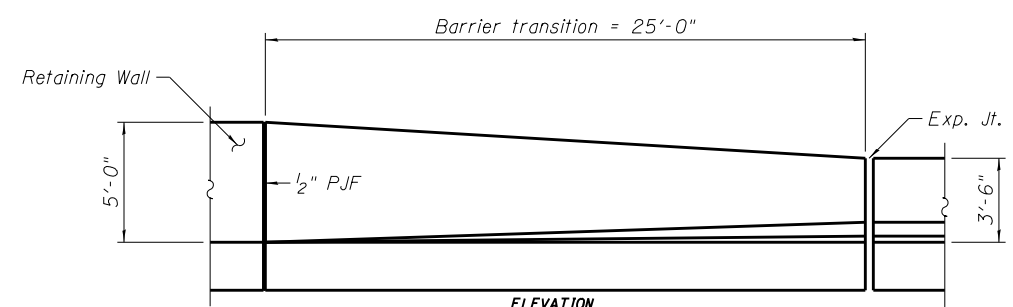
SECTION D3-D3

** Cut to fit in field
2" vertical clearance

- Notes:
1. Top shoulder edge of barrier base gutter shall match the top of shoulder elevation.
 2. See Section C-C on Sheet 7 of 14 for additional details not shown on this sheet.



PLAN



ELEVATION

RETAINING WALL TRANSITION PANEL
East Transition Panel shown, West Transition Panel similar



USER NAME = ogilviano	DESIGNED ACF/JRK	REVISED - 06/01/2018 - AMG
CHECKED PCA	REVISOR	
PLOT SCALE = 0.166666' / in.	DRAWN LK	REVISOR
PLOT DATE = 5/30/2018	DATE 01/19/2018	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

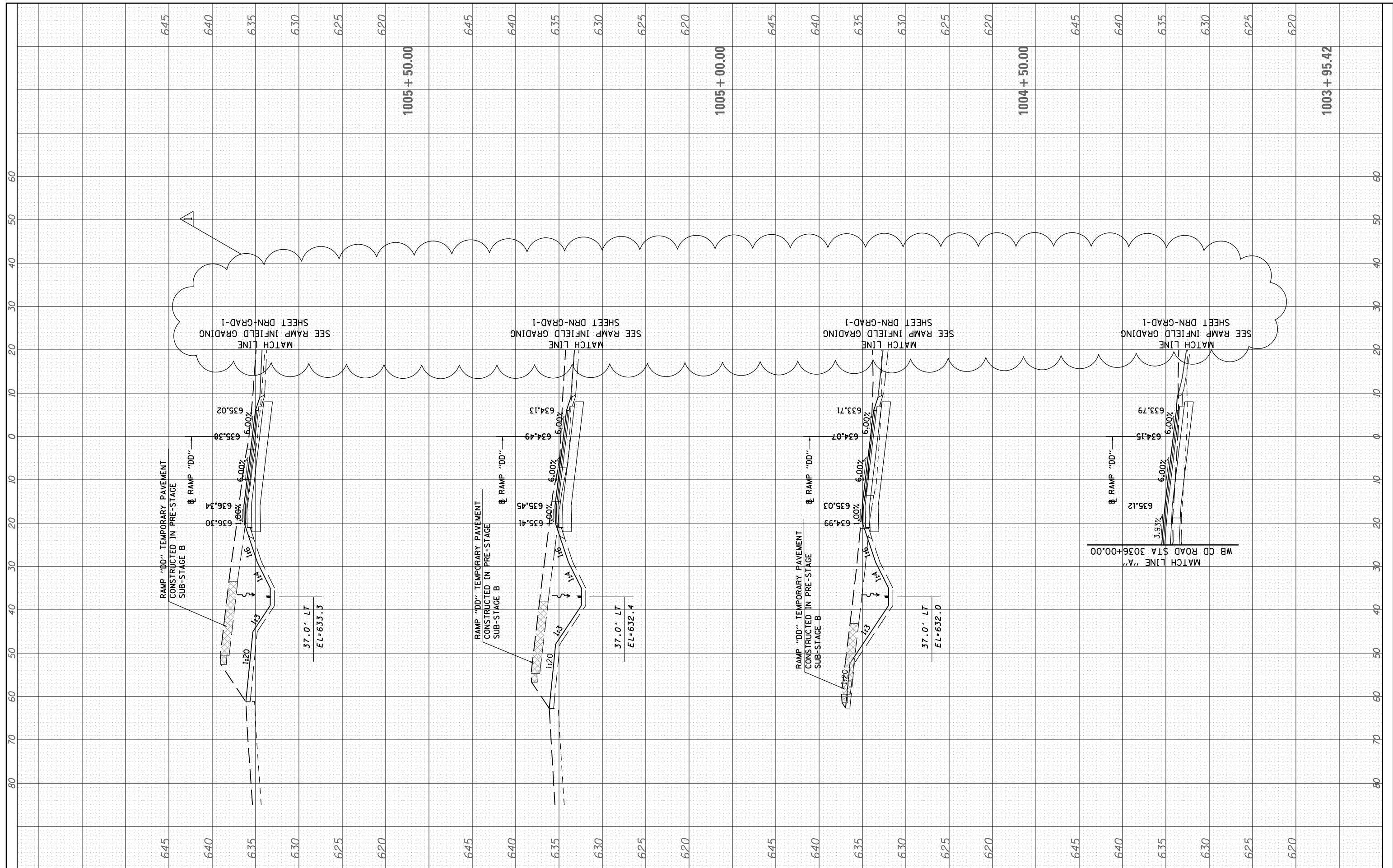
RETAINING WALL WB-5 DETAILS - 4
STRUCTURE NO. 016-2039

SHEET NO. 8 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	536
CONTRACT NO. 60Y39				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = mamiller	DESIGNED - BAJ	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.0000' / in.	DRAWN - BAJ	REVISED -
PLOT DATE = 5/30/2018	CHECKED - MAM	REVISED -
	DATE - 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

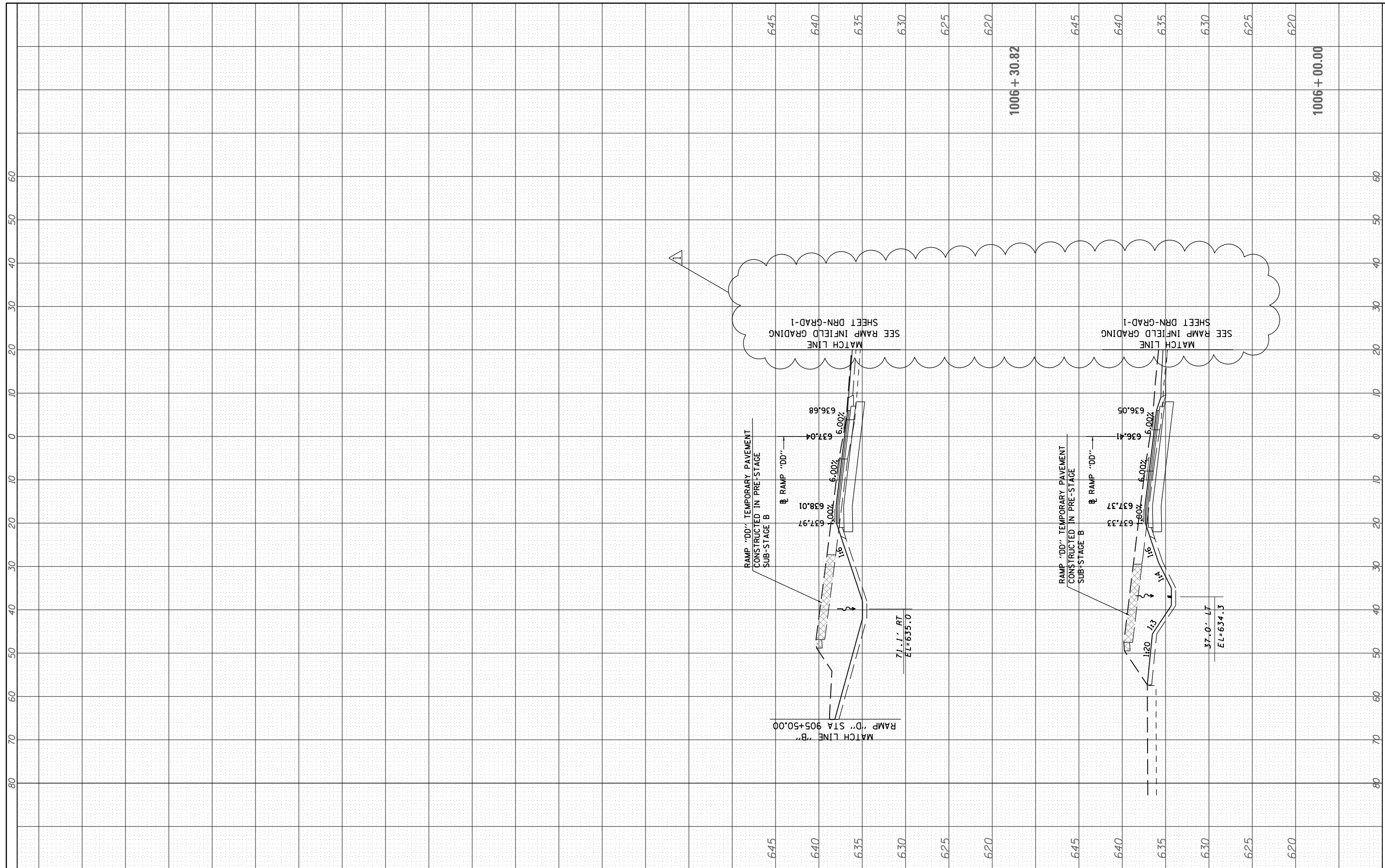
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED CROSS SECTIONS
WESTBOUND CUMBERLAND EXIT RAMP DD**

SCALE: 10' H : 5' V SHEET 1 OF 2 SHEETS STA. 1003+95.42 TO STA. 1005+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	651
CONTRACT NO. 60Y39			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = mamiller	DESIGNED - BAJ	REVISED - 06/01/2018 - MAM
PLOT SCALE = 2.0000' / in.	DRAWN - BAJ	REVISED -
PLOT DATE = 5/30/2018	CHECKED - MAM	REVISED -
	DATE - 01/19/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED CROSS SECTIONS
WESTBOUND CUMBERLAND EXIT RAMP DD**

SCALE: 10' H : 5' V SHEET 2 OF 2 SHEETS STA. 1006+00.00 TO STA. 1006+30.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	652
CONTRACT NO. 60Y39			ILLINOIS FED. AID PROJECT	