

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 62F10	

PROPOSED HIGHWAY PLANS

FOR LIST OF INDEX & HIGHWAY STANDARDS, SEE SHEET NO. 2

F.A.P ROUTE 372 : IL 171 AT N. OF 47TH ST.
SECTION 0102-1
PROJECT NHPP-0372 (014)
RETAINING WALL REPAIR

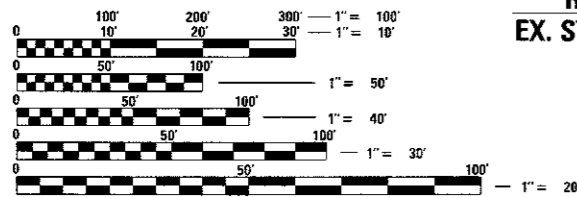
THE IMPROVEMENT IS LOCATED IN
VILLAGE OF LYONS

DESIGN DESIGNATION:

IL 171
ADT (2013) = 38,600
POSTED SPEED LIMIT = 45 MPH
RAMP POSTED SPEED LIMIT = 35 MPH
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

1st AVE (FRONTAGE ROAD)
ADT (2014) = 3,250
POSTED SPEED LIMIT = 35 MPH
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

COOK COUNTY
C - 91 - 213 - 17



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

END IMPROVEMENT
STA 110 + 81.46

RETAINING WALL REPAIR
EX. STRUCTURE NO.: 016-2304

BEGIN IMPROVEMENT
STA 108 + 56.46

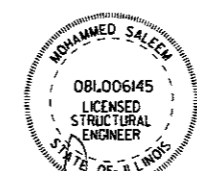


LOCATION MAP

NOT TO SCALE
GROSS LENGTH = 225 FT. = 0.0426 MI.
NET LENGTH = 225 FT. = 0.0426 MI.



Jameel Ahmed
DATE 5/17/17
LICENSE EXPIRES ON 11/30/2017



Mohammed Saleem
DATE 05/17/17
LICENSE EXPIRES ON 11/30/2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *May 18 2017*
Amir Q. Arif REGIONAL ENGINEER
June 30 2017
Mawana M. Adhikari ENGINEER OF DESIGN AND ENVIRONMENT
June 30 2017
DIRECTOR OF PROGRAM, DEVELOPMENT

PROJECT MANAGER: ISSAM RAYYAN, P.E. (847) 705-4178
PROJECT ENGINEER: J. ALAIN MIDY, P.E. (847) 221-3056

CONTRACT NO. 62F10

AES AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-003052

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEET , & STATE STANDARDS.
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8	PLAN AND PROFILE
9	TYPICAL SECTIONS
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12	RESTORATION PLAN
13-19	STRUCTURAL SHEETS
20-28	DISTRICT ONE DETAILS

DISTRICT 1 STANDARDS

STANDARD NO	DESCRIPTION
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-22	PAVEMENT PATCHING FOR HMA SURFACE PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
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TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES
TC-22	ARTERIAL ROAD INFORMATION SIGN

HIGHWAY STANDARDS

STANDARD NO	DESCRIPTION
000001-06	STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
630001-11	STEEL PLATE BEAM GUARD RAIL
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED GREATER THAN OR EQUAL TO 45MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01	TRAFFIC CONTROL SETUP & REMOVAL, FREEWAY/EXPRESSWAY
701446-08	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS

GUARDRAIL SCHEDULE


LOCATION			SIDE	LENGTH
STATION	TO	STATION	LT/RT	(FOOT)
108+56.46	TO	110+81.46	LT	225
TOTAL				225

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	STRUCTURE EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	15% ADJUSTMENT FOR SHRINKAGE (CU YD)	FILL EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE(+) SHORTAGE(-) (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CUYD)
INFRONT OF WALL	120	227	34.8	265.5	334	-68.5	18.33
BEHIND WALL	126	856	98.2	751.2	242	509.2	26.67
TOTAL	246	1083	133	1016.7	576	440.7	45

EARTHWORK EXCAVATION LIMITS/VOLUMES PROVIDED IN THE PLAN AND EARTHWORK SCHEDULE ARE BASED ON CONSERVATIVE ASSUMPTIONS. EXCAVATED MATERIAL SHALL BE USED WITHIN THE PROJECT LIMITS AS TOPSOIL OR FILL. IF USED AS FILL IT CAN BE PLACED IN LIEU OF GRANULAR BACKFILL FOR STRUCTURE BEGINNING AT A LIMIT 4 FEET OUTSIDE THE BACK OF NEW WALL.

P:\60616095\171-PTB177-204-W013-IL 171 Retaining Wall 12.dwg

 AES Services, Inc. 111 S. Wacker Drive, Suite 2910 Chicago, IL 60606 Ph: 312-235-6783	USER NAME = unchained DESIGNED - AWM DRAWN - TOM CHECKED - JA DATE - 05/17/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS INDEX OF SHEETS	F.A.U. RTE. 372 SECTION 0102-1 COUNTY COOK TOTAL SHEETS 28 SHEET NO. 2	CONTRACT NO. 62F10
	PLOT SCALE = 2.0000' / 1"	PLOT DATE = 5/17/2017			SCALE SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF MCCOOK.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.
4. ANY PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTED LONGITUDINAL WEDGE IS USED.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE PREFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND REVISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER
7. THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, IDOT'S DISTRICT ONE AREA TRAFFIC FIELD TECHNICIAN, VIA E-MAIL AT PATRICE.HARRIS@ILLINOIS.GOV AND OR AT (708) 597-9800, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
8. MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.
9. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES, THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST SHORT TERM PAVEMENT MARKING.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT 1 DETAIL " TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW - PLOW RESISTANT)" SHOWN IN THE PLANS
16. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.
17. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
18. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
19. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD. UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED
20. FULL DEPTH SAWCUT OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

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AES Services, Inc.
 111 S. Wacker Drive, Suite 3910
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 Ph: 312-235-6783

USER NAME = tomahmed	DESIGNED - AWM	REVISED -
PLOT SCALE = 2,82000' / 1" =	DRAWN - TOM	REVISED -
PLOT DATE = 5/17/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) & 47th ST. -- RETAINING WALL REPAIRS
 GENERAL NOTES

SCALE SHEET OF SHEETS STA. TO STA.

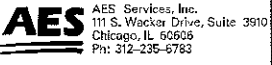
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	3
CONTRACT NO. 62F10			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80/20 (FED/STATE)
				ROADWAY 0004 URBAN
20200100	EARTH EXCAVATION	CU YD	673	673
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	133	133
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	855	855
25000210	SEEDING, CLASS 2A	ACRE	0.18	0.18
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	11	11
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	11	11
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	11	11
28000400	PERIMETER EROSION BARRIER	FOOT	264	264
28000510	INLET FILTERS	EACH	5	5
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	10	10
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	125	125
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	21	21
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	175	175
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7	7

* SPECIALTY ITEMS

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 AES Services, Inc. 111 S. Wacker Drive, Suite 3910 Chicago, IL 60605 Ph: 312-235-6783	USER NAME = tnahammed	DESIGNED - ARM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS SUMMARY OF QUANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / 1" =	DRAWN - TOM	REVISIED -				372	0102-1	COOK	28	4
	PLOT DATE = 5/17/2017	CHECKED - JA	REVISIED -				CONTRACT NO. 62F10				
	DATE - 05/17/2017	REVISED -		SCALE	SHEET OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

Rev

CONSTR. CODE
80/20
(FED/STATE)
ROADWAY
0004
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
42101300	PROTECTIVE COAT	SO YD	25	25
44000400	GUTTER REMOVAL	FOOT	225	225
44000500	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	56	56
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	31	31
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SO YD	127	127
50102400	CONCRETE REMOVAL	CU YD	137	137
50200100	STRUCTURE EXCAVATION	CU YD	300	300
50300225	CONCRETE STRUCTURES	CU YD	166	166
50300300	PROTECTIVE COAT	SO YD	260	260
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	24048	24048
50901730	BRIDGE FENCE RAILING	FOOT	180	180
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	2070	2070
550A0960	STORM SEWERS, CLASS A, TYPE 4 15"	FOOT	16	16
55100700	STORM SEWER REMOVAL 15"	FOOT	16	16

* SPECIALTY ITEMS

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AES Services, Inc.
111 S. Wacker Drive, Suite 2910
Chicago, IL 60606
Ph: 312-235-6793

USER NAME = mohammed	DESIGNED - AWM	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - TON	REVISED -
PLOT DATE = 5/17/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
SUMMARY OF QUANTITIES

SCALE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	5
CONTRACT NO. 62F10			ILLINOIS FED. AID PROJECT	

Rev

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80/20 (FED/STATE)
				ROADWAY 0004 URBAN
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	290	290
60255410	CATCH BASINS TO BE CLEANED	EACH	3	3
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	8	8
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	225	225
* W400200	NONSPECIAL WASTE DISPOSAL	CU YD	885	885
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
* W400450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1
67100100	MOBILIZATION	LSUM	1	1
* W400530	SOIL DISPOSAL ANALYSIS	EACH	3	3
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30
70300100	SHORT TERM PAVEMENT MARKING	FOOT	244	244
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	82	82
70400100	TEMPORARY CONCRETE BARRIER	FOOT	275	275
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	924	924
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	127	127
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	24	24

* SPECIALTY ITEMS

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111 S. Wacker Drive, Suite 3910
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PH: 312-235-6783

USER NAME = smohammed	DESIGNED - AWM	REVISED -
PLOT SCALE = 2.0000 "/ in.	DRAWN - TOM	REVISED -
PLOT DATE = 5/17/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	6
CONTRACT NO. 62F10			ILLINOIS FED. AID PROJECT	

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80/20 (FED/STATE)
				ROADWAY 0004 URBAN
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	4	4
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	36	36
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8
20073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	1	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	182	182
X0549200	CLEANING PAVED DITCH	FOOT	300	300
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	387	387
X7010809	TRAFFIC CONTROL AND PROTECTION, STANDARD TC9	EACH	1	1
X7010817	TRAFFIC CONTROL AND PROTECTION, STANDARD TC17	EACH	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	3	3

* SPECIALTY ITEMS

14

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USER NAME = smohamed	DESIGNED - AWM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2.0000' / 1"	CHECKED - JA	REVISED -
PLOT DATE = 5/17/2017	DATE - 05/17/2017	REVISED -

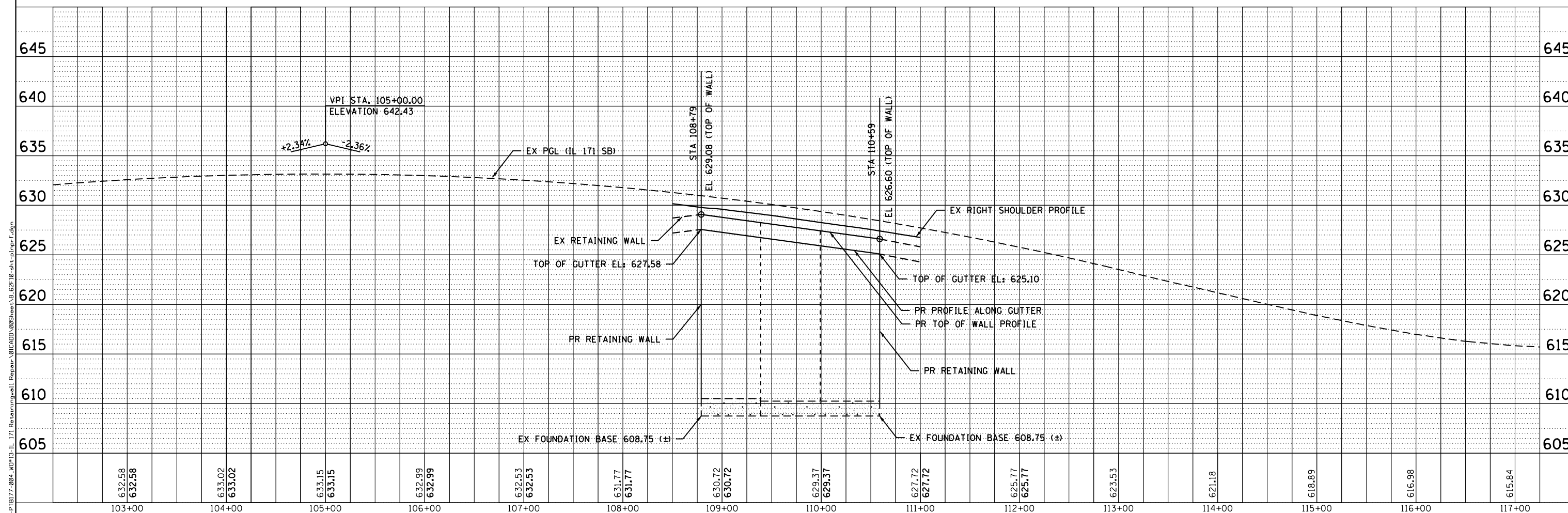
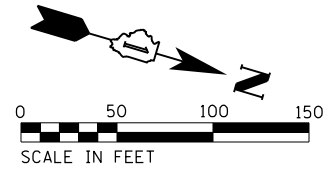
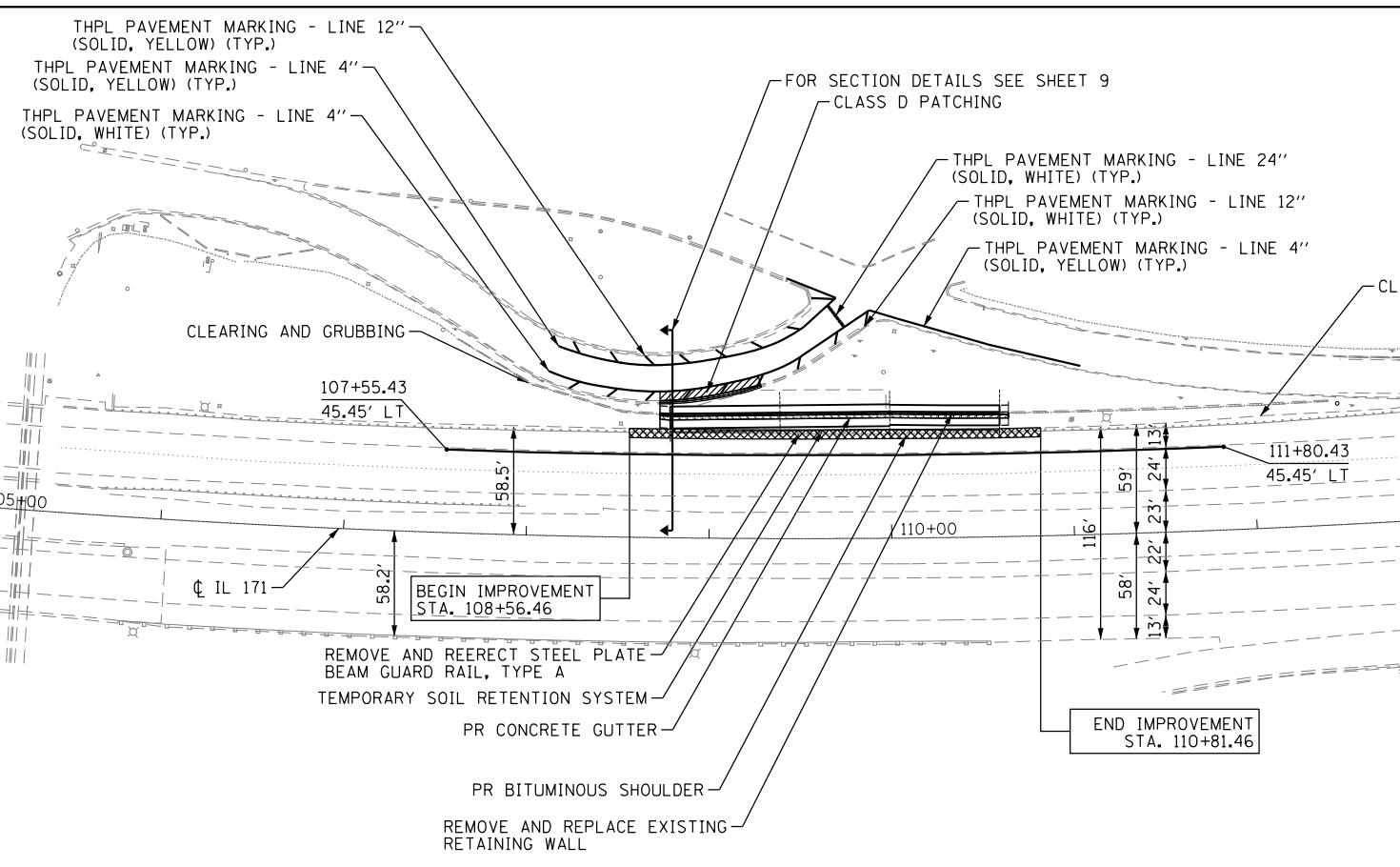
STATE OF ILLINOIS
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IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
SUMMARY OF QUANTITIES

SCALE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	7
CONTRACT NO. 62F10			ILLINOIS FED. AID PROJECT	

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632.58	632.58	633.02	633.02	633.15	633.15	632.99	632.99	632.53	632.53	631.77	631.77	630.72	630.72	629.37	629.37	627.72	627.72	625.77	625.77	623.53	621.18	618.89	616.98	615.84
103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00										

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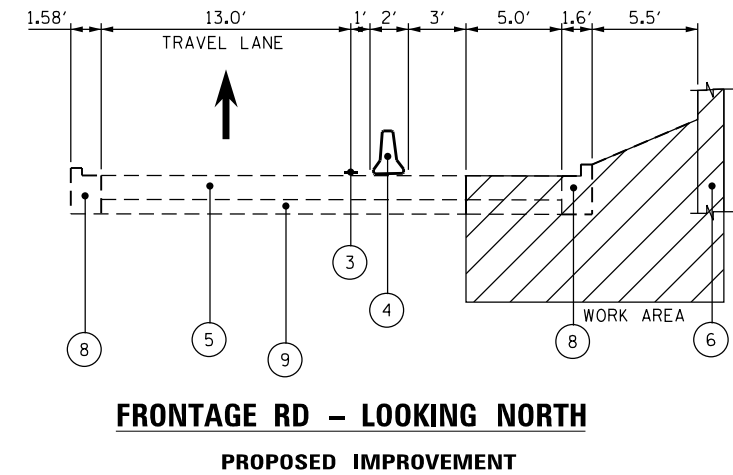
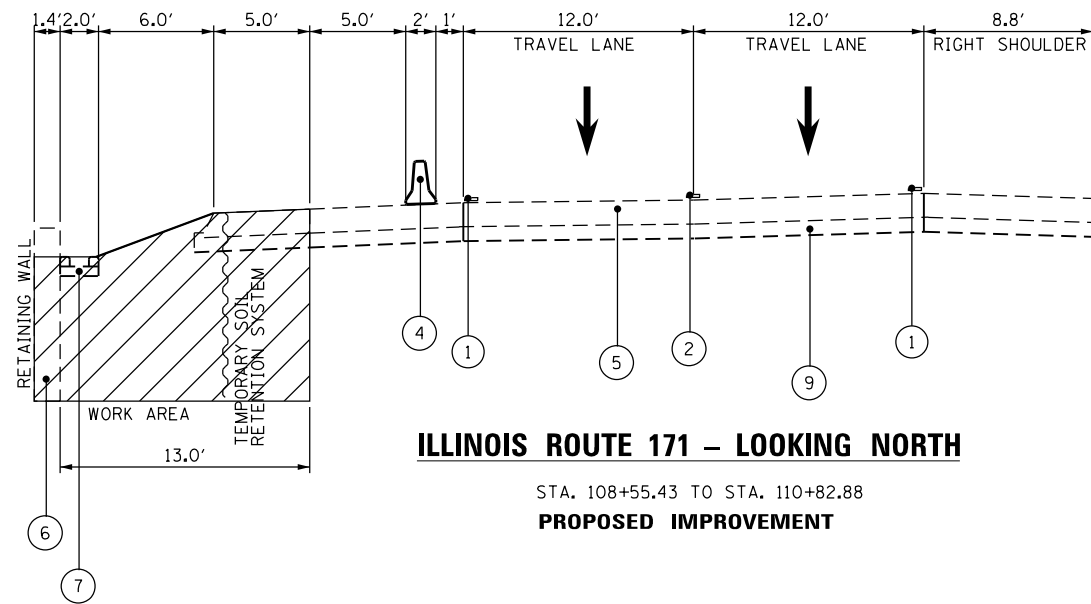
USER NAME = tmohammed	DESIGNED - AWM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - JA	REVISED -
PLOT DATE = 5/17/2017	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
PLAN & PROFILE**

F.A.U. RTE. 372	SECTION 0102-1	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 8
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

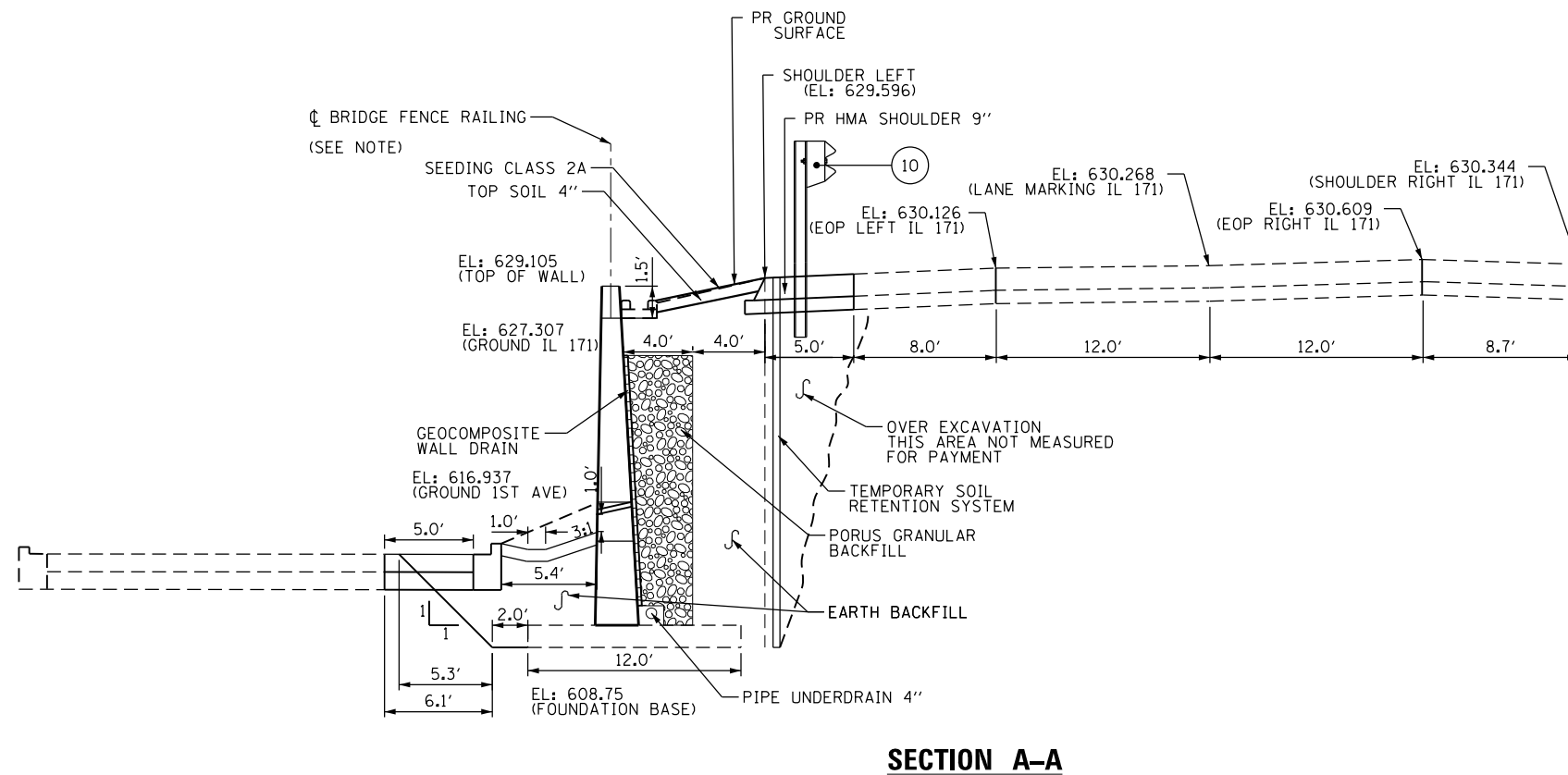
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TRAFFIC NOTES

PERMANENT SHOULDER CLOSURE SHALL BE WITH TEMPORARY CONCRETE BARRIER PER DISTRICT DETAIL " TRAFFIC CONTROL DETAILS" FOR FREEWAY SHOULDER AND PARTIAL RAMP CLOSURE" (TC-17)

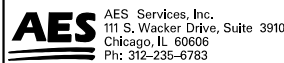
NOTE: BRIDGE FENCE RAILING TO MATCH EXISTING ADJACENT FENCE



LEGEND

- ① EXISTING PAVEMENT MARKING (SOLID LINE)
- ② EXISTING PAVEMENT MARKING (DASH LINE)
- ③ TEMPORARY PAVEMENT MARKING LINE - 4" (SOLID, WHITE)
- ④ TEMPORARY CONCRETE BARRIER
- ⑤ EXISTING PAVEMENT ± 9"
- ⑥ EXISTING RETAINING WALL
- ⑦ EXISTING TYPE B GUTTER
- ⑧ EXISTING CURB AND GUTTER
- ⑨ STABILIZED SUB-BASE ± 4"
- ⑩ REMOVE AND RE-ERECT EXISTING GUARD RAIL

P:\606162005\13-PTB177-004-W013-IL-171 RetainingWall Repair\01CAD\00Sheet\9.62E10-sh-typical.dgn



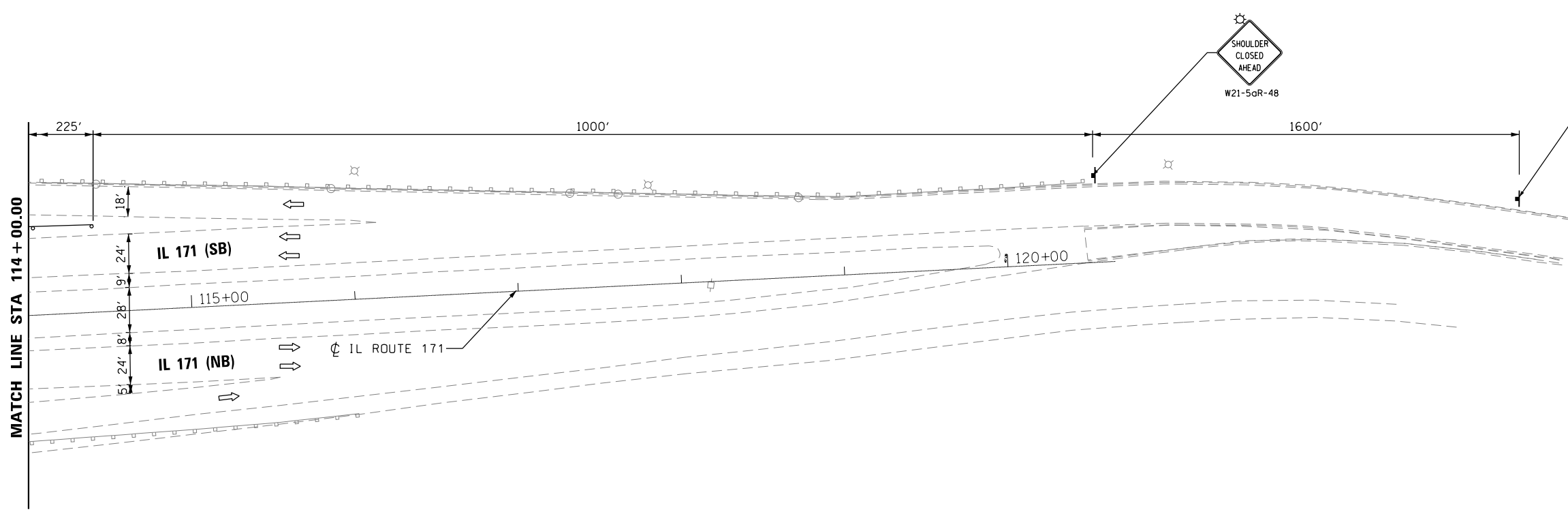
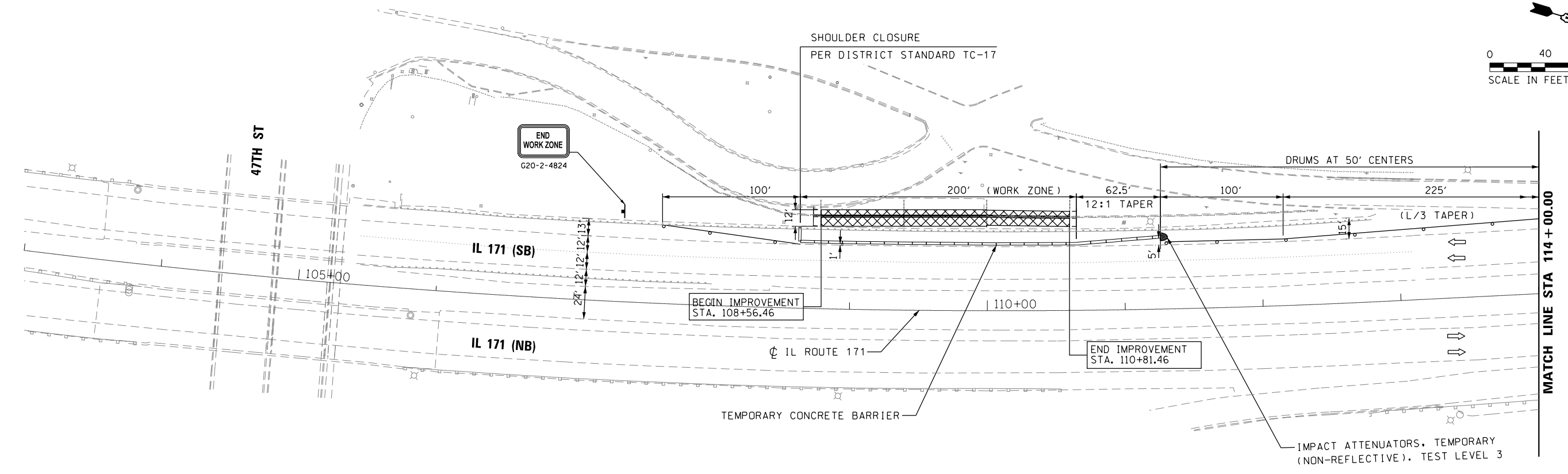
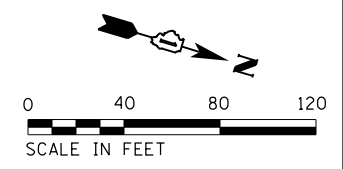
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DRAWN - TOM	REVISOR - _____	REVISOR - _____
PLOT SCALE = 10.0000' / in.	CHECKED - JA	REVISOR - _____
PLOT DATE = 5/17/2017	DATE - 05/17/2017	REVISOR - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) & 47th ST. – RETAINING WALL REPAIRS
 TYPICAL SECTIONS**

SCALE _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	9
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				



LEGEND

- TEMPORARY INFORMATION SIGN
- DRUM OR TYPE II BARRICADE
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REFLECTIVE), TEST LEVEL 3
- EXISTING GUARDRAIL
- EXISTING FENCE

P:\606162005\13-PTB177-004-W013-IL-171-RetainingWall1-Repair-01\CADD\00\Sheets\10-62F10-sh-t-MOT-IL-171.dgn

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

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DRAWN - TOM	REVISOR -	REVISED -
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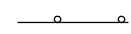

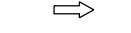


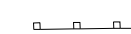

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

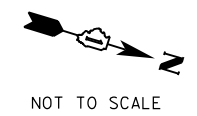
**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
MAINTENANCE OF TRAFFIC - IL 171**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	10
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

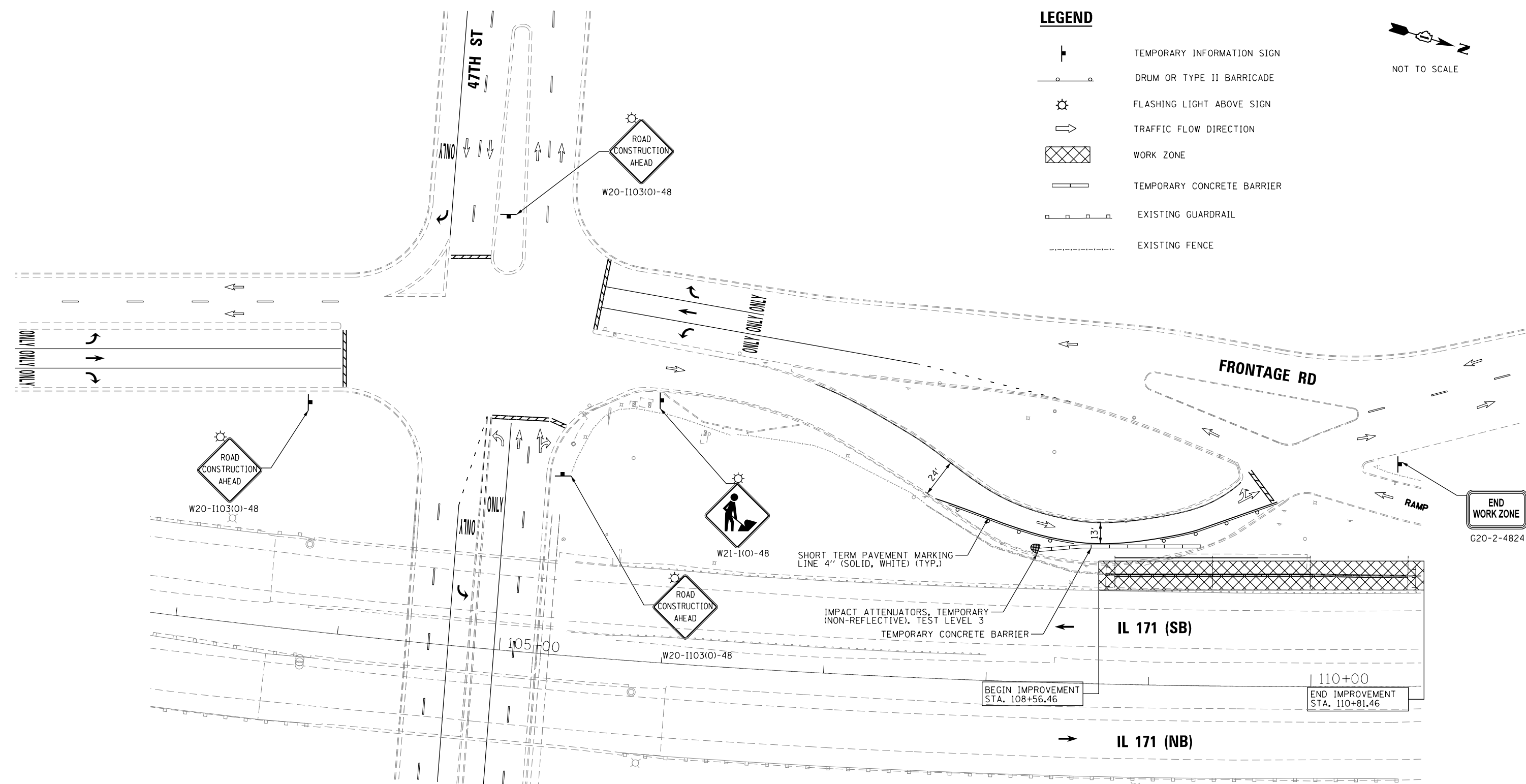
SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
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LEGEND

-  TEMPORARY INFORMATION SIGN
-  DRUM OR TYPE II BARRICADE
-  FLASHING LIGHT ABOVE SIGN
-  TRAFFIC FLOW DIRECTION
-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  EXISTING GUARDRAIL
-  EXISTING FENCE



NOT TO SCALE



END WORK ZONE
G20-2-4824

P:\606162005\13-PTB177-004-W013-IL-171-RetainingWall_Repairs\01\CADD\00\Sheets\11_62F10-sh1-MOT-Frontage_Road.dgn

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

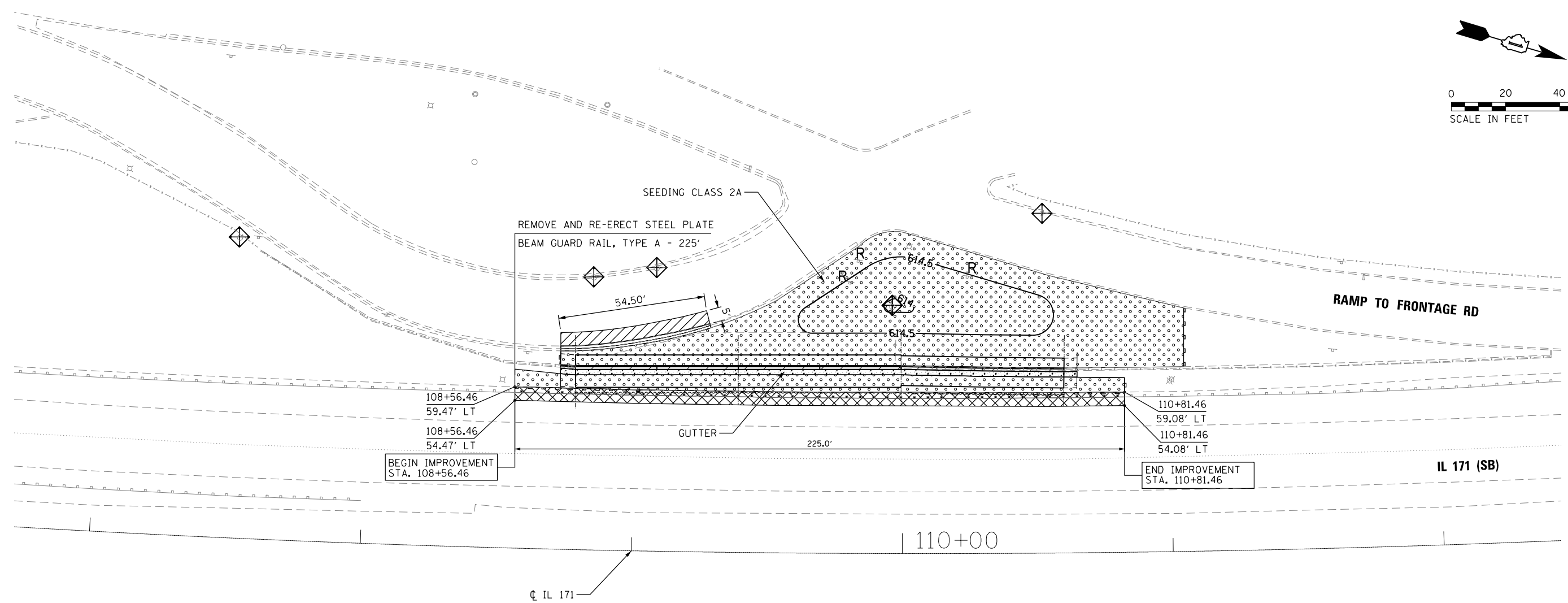
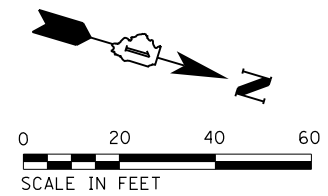
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DRAWN - TOM	REVISOR -	
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PLOT DATE = 5/17/2017	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
MAINTENANCE OF TRAFFIC - FRONTAGE RD**

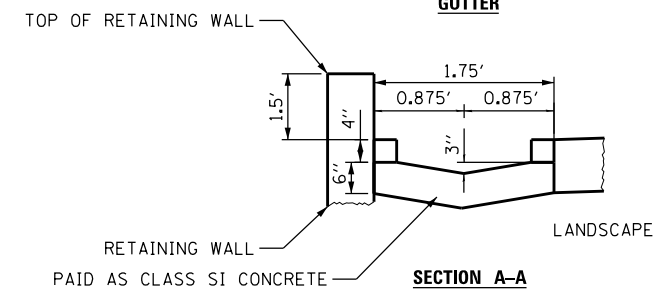
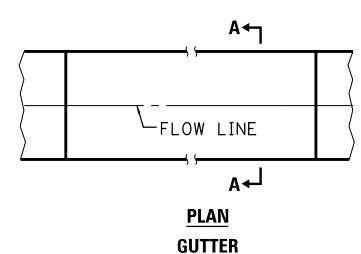
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	11
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

SCALE SHEET OF SHEETS STA. TO STA.



NOTES:

1. THE CONTRACTOR SHALL INSTALL PERIMETER BARRIER PRIOR TO STRIPING OF VEGETATION
2. DIRECT OR INDIRECT PUMPING OF SEDIMENT LADEN WATER INTO STORM WATER FACILITY WITHOUT FILTRATION IS PROHIBITED
3. RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES SHOWN IN IDOT STD. 280001, AND/OR NRCS DETAILS FROM THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL.
4. THE CONTRACTOR SHALL SURROUND ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER
5. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED FOR COVERING SLOPES STEEPER THAN 3H:1V



LEGEND:

- EXISTING STRUCTURE AND PAVEMENT REMOVAL
- INLET FILTERS/ INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- SEEDING CLASS 2A
- PROPOSED BITUMINOUS SHOULDER
- PROPOSED CONCRETE GUTTER
- CLASS D PATCH
- REMOVE AND REERECT STEEL PLATE BEAM GUARD RAIL, TYPE A - 225'
- TEMPORARY SOIL RETENTION SYSTEM
- REMOVE AND RE-ERECT EXISTING SIGN
- 614.5' GRADE CONTOUR

P:\606162005\13-PTB177-004-W013-IL-171-Restoration\1-Repairs\01\CADD\000Sheet\12-62F10-shr-Restoration.dgn

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - AWM	REVISED -
DRAWN - TOM	REVISOR -	REVISED -
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PLOT DATE = 5/17/2017	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
RESTORATION PLAN**

SCALE	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	12
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

BENCH MARK: Elevation NGVD 88: 614.015
 Northing: 1872035.606
 Easting: 1120390.357

INDEX OF SHEETS

Sht No.	Description
S1	General Plan and Elevation
S2	Details I
S3	Details II
S4	Concrete Removal & Excavation I
S5	Concrete Removal & Excavation II
S6	Temporary Soil Retention System & Backfill
S7	Bridge Fence Railing

GENERAL NOTES:

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. such variations shall not be cause for additional compensation for a change in scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work
- Reinforcement bars designated (E) shall be epoxy coated
- Existing storm sewer to be supported during wall repairs. Method of support to be approved by the engineer. Cost of the supporting existing storm sewer shall not be paid separately and shall be included with structure excavation.
- The contractor shall take precautions to protect the existing 15" ϕ storm sewer, existing conduit and adjacent structures during removal/reconstruction of the wall. Any damage done during construction shall be repaired by the contractor at his expense at no charge to IDOT
- Existing elevations have been taken from historical plans.
- For Structure Excavation details, see sheet 16 & 17.
- For Temporary Soil Retention System and backfill details, see sheet 18.
- The contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, structure excavation, installation of Temporary Soil Retention System and other loads applied will not have detrimental effects on the adjacent Retaining wall and roadway. Any damage to the adjacent Retaining wall and roadway during construction shall be repaired by the contractor at this expense at no charge to IDOT.
- The removal of the failed portion of the wall shall be included in Concrete Removal.
- For total Bill of Materials see sheet 15

SCOPE OF WORK:

- Install temporary soil retention system.
- Excavate behind existing wall and support exist. 15" storm sewer
- Remove existing concrete wall above existing footing
- Construct new concrete wall & backfill
- Apply protective coat as per "Protective Coat" 50300300 (260 Sq Yd)

STAGING:

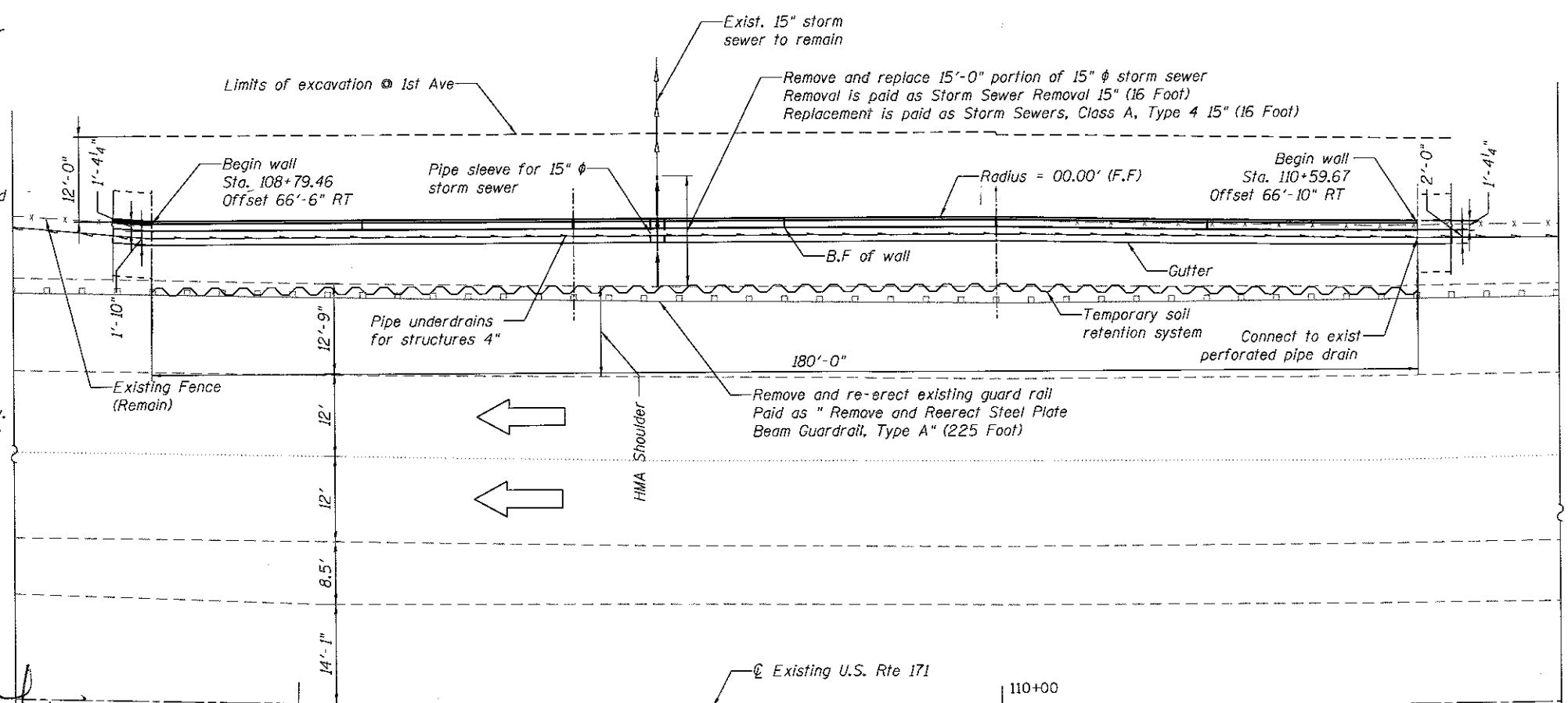
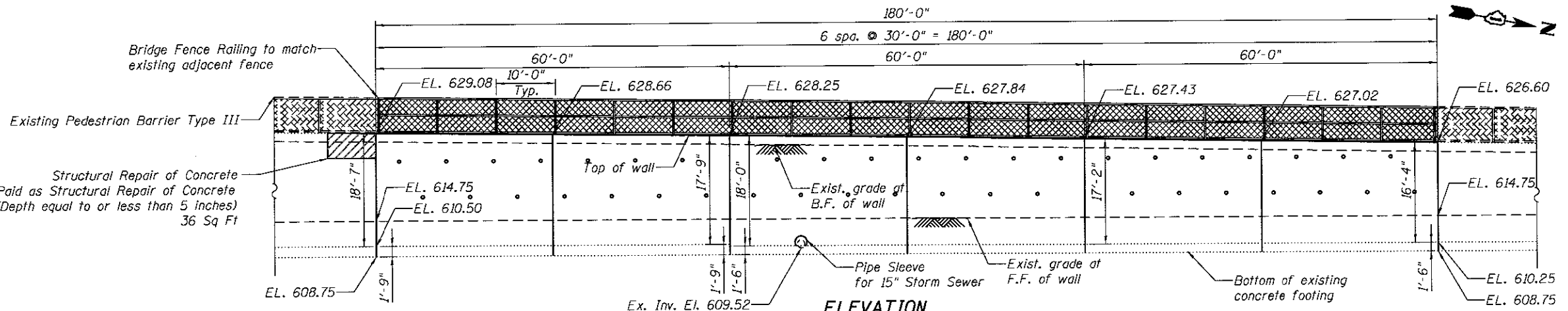
No staging required.

SALVAGE:

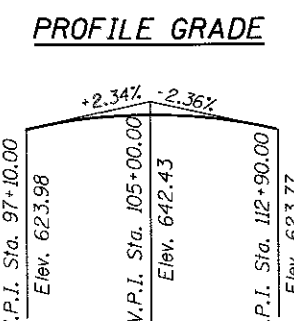
No salvage

LEGEND:

- x - x - x - Exist. Fence
- - - - - Exist. Storm Sewer 15"
- - - - - Prop. Storm Sewer 15"
- - - - - Temp. soil retention system
- - - - - Remove and reerect Existing Guardrail
- - - - - Pipe underdrain for structures 4"
- - - - - Existing perforated pipe drain
- B.F. - Back Face
- F.F. - Front Face



DATE LICENSE EXPIRES ON 11/30/2018 06/07/2017



CURVE DATA

EXIST. CURVE EX171CL-4
PI STA. = 105+97.15
$\Delta = 14^{\circ} 00' 00''$ (LT)
$D = 1^{\circ} 00' 00''$
$R = 5,729.58'$
$T = 703.50'$
$L = 1,400.00'$
$E = 43.03'$
$e =$
T.R. =
S.E. RUN =
P.C. STA. = 98+93.64
P.T. STA. = 112+93.64

HIGHWAY CLASSIFICATION

F.A.P Rte. 372 - U.S. Rte. 171
Functional Class: Other Principal Arterial
ADT IL 171: 38,600 (2013)
ADT 1st Ave (Frontage Road): 3,250 (2014)
Design Speed IL 171: 50 m.p.h.
Design Speed 1st Ave: 40 m.p.h.
Design Speed Ramp: 40 m.p.h.
Posted Speed IL 171: 45 m.p.h.
Posted Speed 1st Ave: 35 m.p.h.
Posted Speed Ramp: 35 m.p.h.

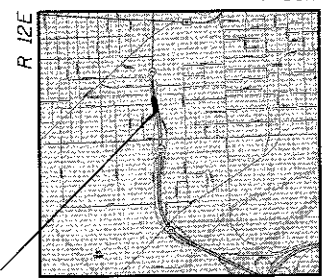
DESIGN SPECIFICATIONS

2012 AASHTO Standard Specifications for Highway Bridges, 6th edition with 2013 interims
 ASTM C 1577

DESIGN STRESSES

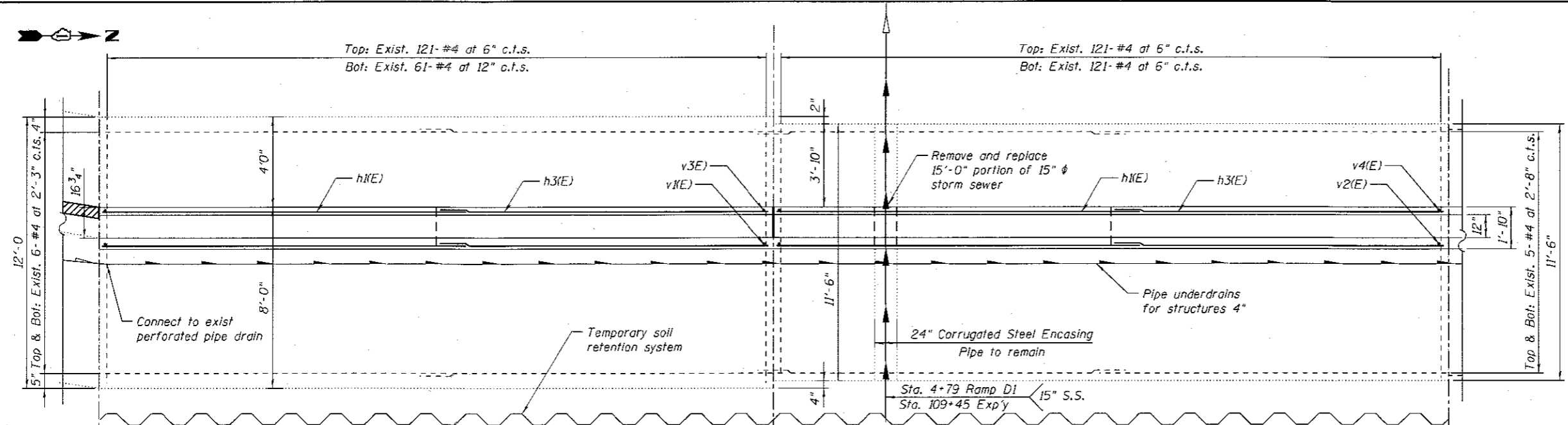
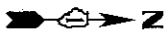
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$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (AASHTO M270 Gr. 36)

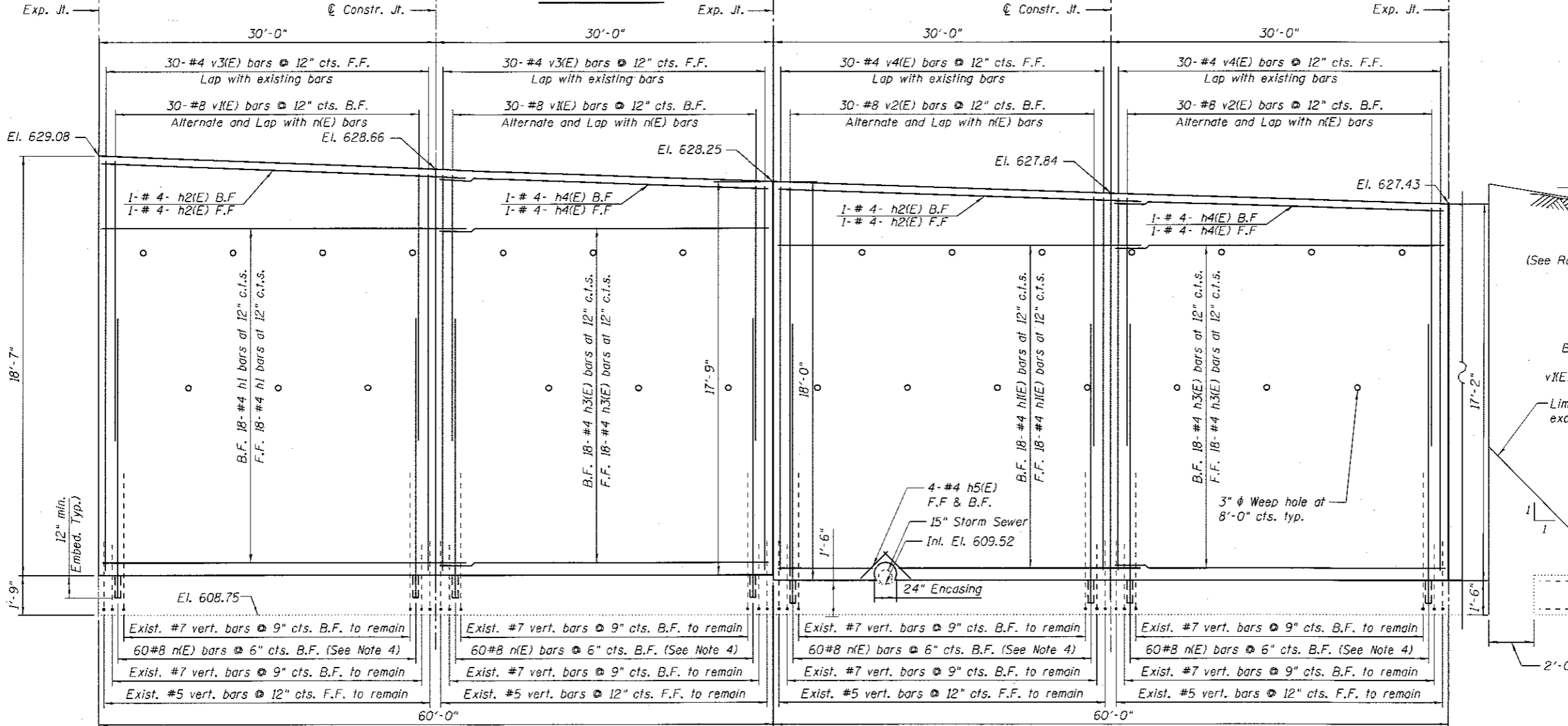


GENERAL PLAN AND ELEVATION
US ROUTE 171
F.A.P. ROUTE 372
SECTION 0102-I
MC COOK COUNTY
STATION 108+79.00 TO 110+59.00
SN 016-2304

P:\686162005\13-PT\13-IL-171-Res\main.dwg 13-PT\13-IL-171-Res\main.dwg 13-PT\13-IL-171-Res\main.dwg



FOOTING PLAN



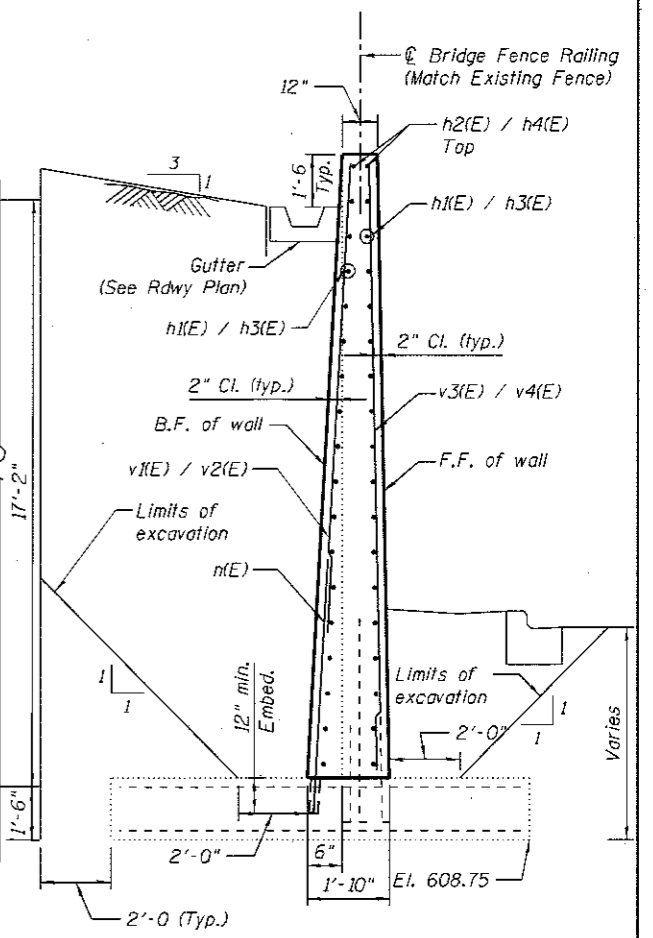
ELEVATION

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. For proposed Temporary Soil Retention System, See Sheet 18.
3. The required sleeve dia. and wall thickness shall be determined by contractor prior to constructing the wall. Cost of Sleeve shall be included with Concrete Structures.
4. Epoxy grout n(E) bars according to Section 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

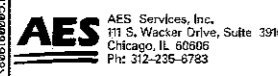
LEGEND:

B.F. - Back Face
F.F. - Front Face



SECTION

P:\6261\0605\13-PT1817-204_IL_171_RetainingWall_Repairs\01CAD\06Sheet14_62F18-struct-12_Plan_Elev_Details.dgn
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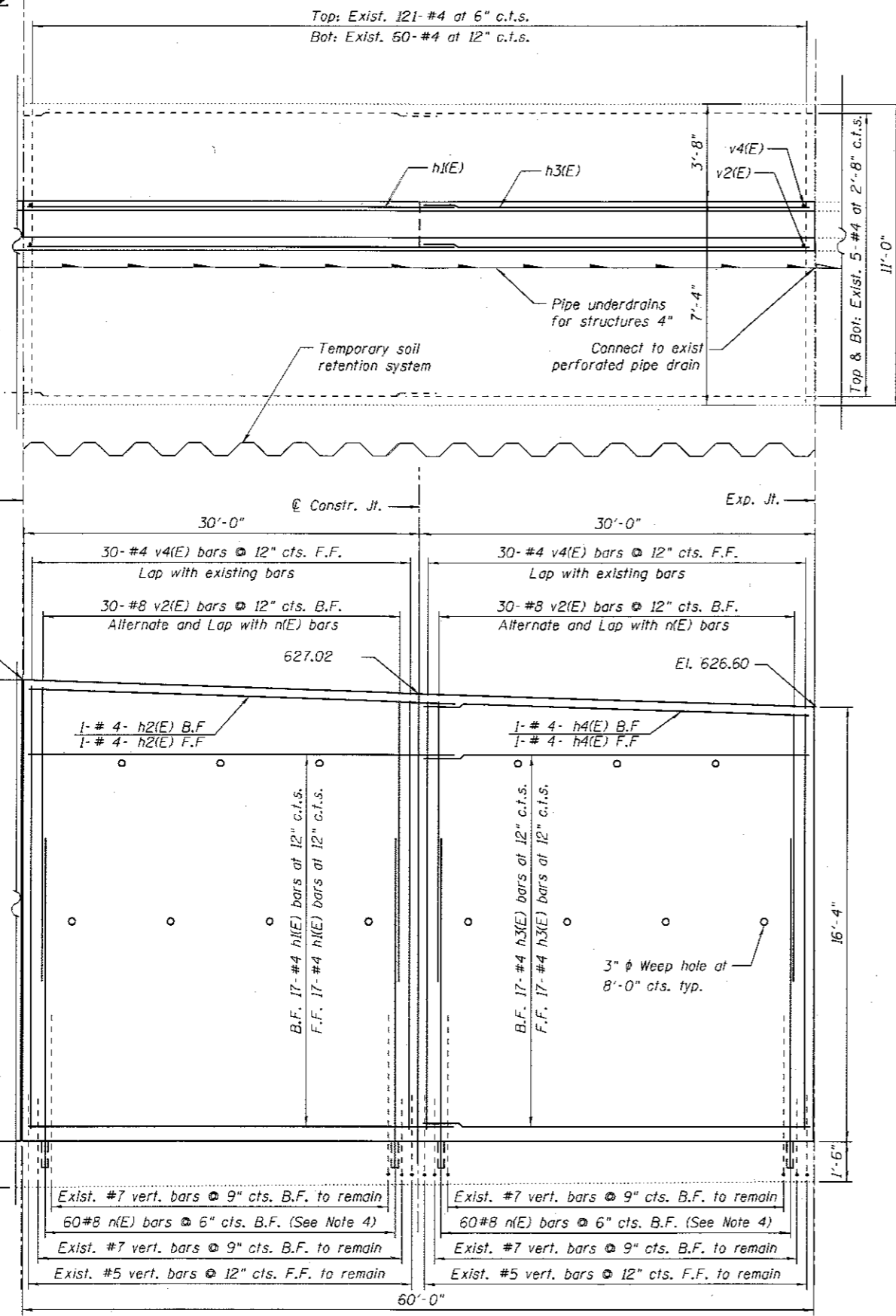


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PLOT DATE = 6/5/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS DETAILS I		F.A.U. R.T.E. 372	SECTION 0102-1	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 14
SCALE	SHEET 2 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 62F10		

ILLINOIS FED. AID PROJECT



ELEVATION

BILL OF MATERIAL

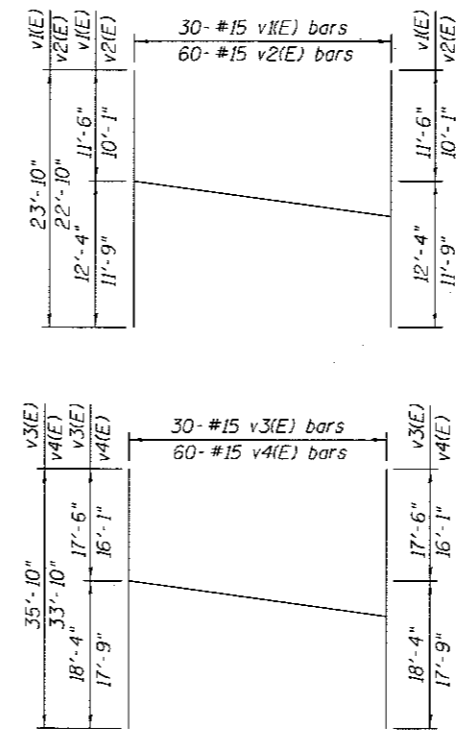
Mark	Number	Size	Length	Shape	
h1(E)	106	4	32'-1"		
h2(E)	6	4	32'-1"		
h3(E)	106	4	29'-8"		
h4(E)	6	4	29'-8"		
h5(E)	4	4	3'-6"		
v1(E)	30	8	23'-10"		
v2(E)	60	8	21'-10"		
v3(E)	30	4	35'-10"		
v4(E)	60	4	33'-10"		
n(E)	360	8	12'-5"		
Reinforcement Bars Epoxy Coated				Pound	24048
Concrete Structures				Cu Yd	166

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu Yd	137
Structure Excavation	Cu Yd	300
Concrete Structures	Cu Yd	166
Protective Coat	Sq Yd	260
Reinforcement Bars Epoxy Coated	Pound	24048
Bridge Fence Railing	Foot	180
Temporary Soil Retention System	Sq Ft	2070
Geocomposite Wall Drain	Sq Yd	290
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq Ft	36
Pipe Underdrains for Structures 4"	Foot	182
Granular Backfill for Structures	Cu Yd	387
Earth Excavation	Cu Yd	673

Minimum Bar Laps

Bar	Lap
#4	2'-1"
#8	5'-5"



BAR CUTTING DIAGRAM

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. For proposed Temporary Soil Retention System, See Sheet 18.
3. The required sleeve dia. and wall thickness shall be determined by contractor prior to constructing the wall. Cost of Sleeve shall be included with Concrete Structures.
4. Epoxy grout n(E) bars according to Section 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included with Reinforcement Bars Epoxy Coated.

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AES Services, Inc.
 111 S. Wacker Drive, Suite 3910
 Chicago, IL 60605
 Ph: 312-235-8783

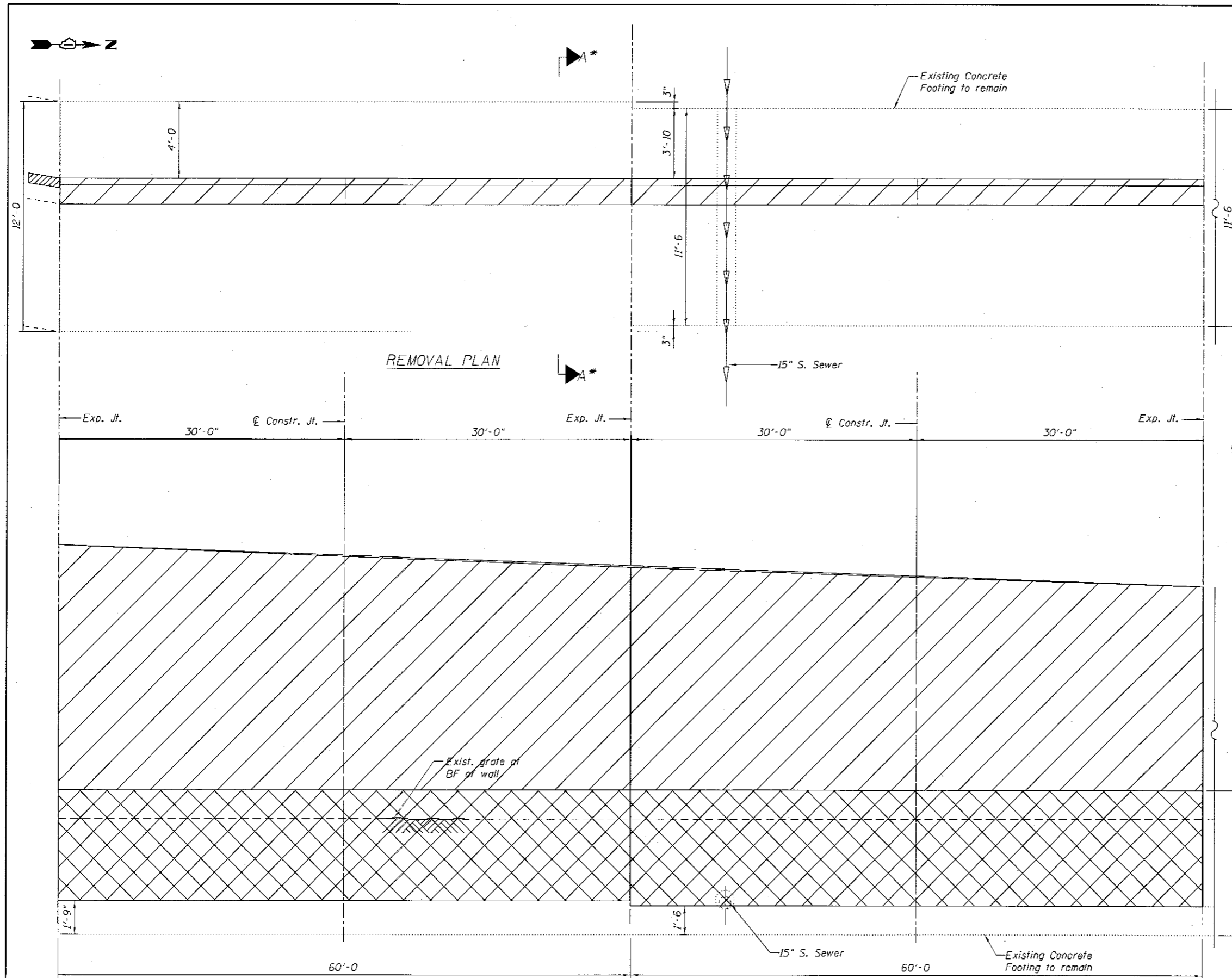
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	DATE - 05/17/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
 DETAILS 2

SCALE	SHEET 3 OF 7 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	15
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

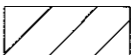



NOTES:

- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal.
- Removal of the portion of the Failed wall that has fallen shall be removed and shall not be paid for separately and shall be included in Concrete Removal.

* For Section A-A see sheet 17

LEGEND:

-  - Concrete Wall Failed
-  - Concrete Removal

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

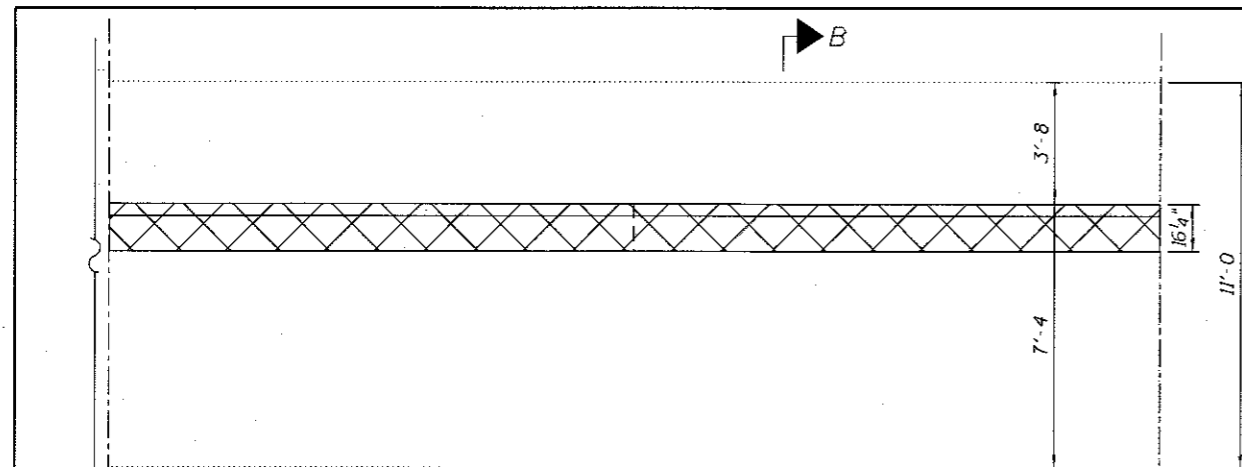
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DRAWN - TOM	REVISED -	
CHECKED - JA	REVISED -	
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PLT DATE = 8/6/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

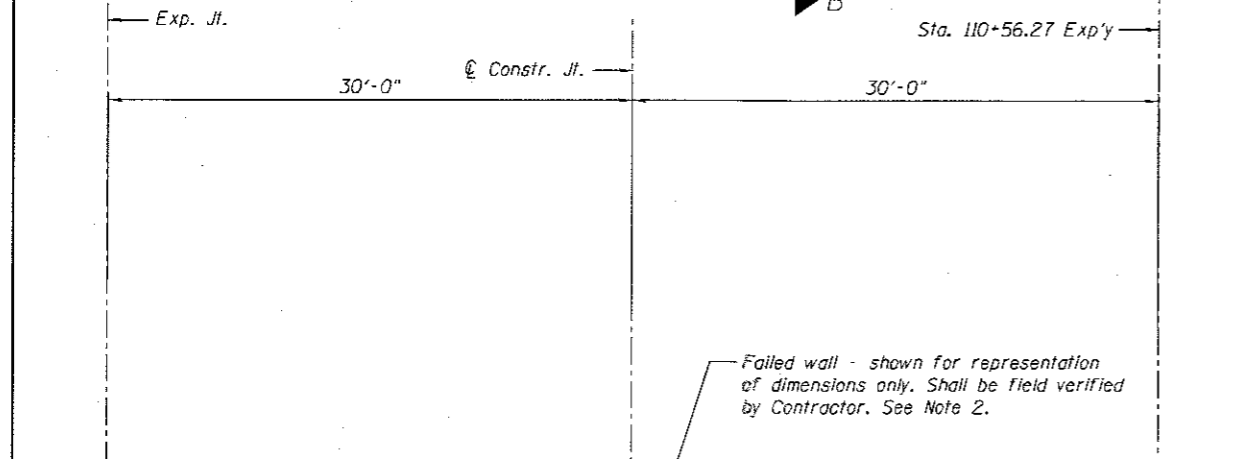
**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
CONCRETE REMOVAL & EXCAVATION I**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

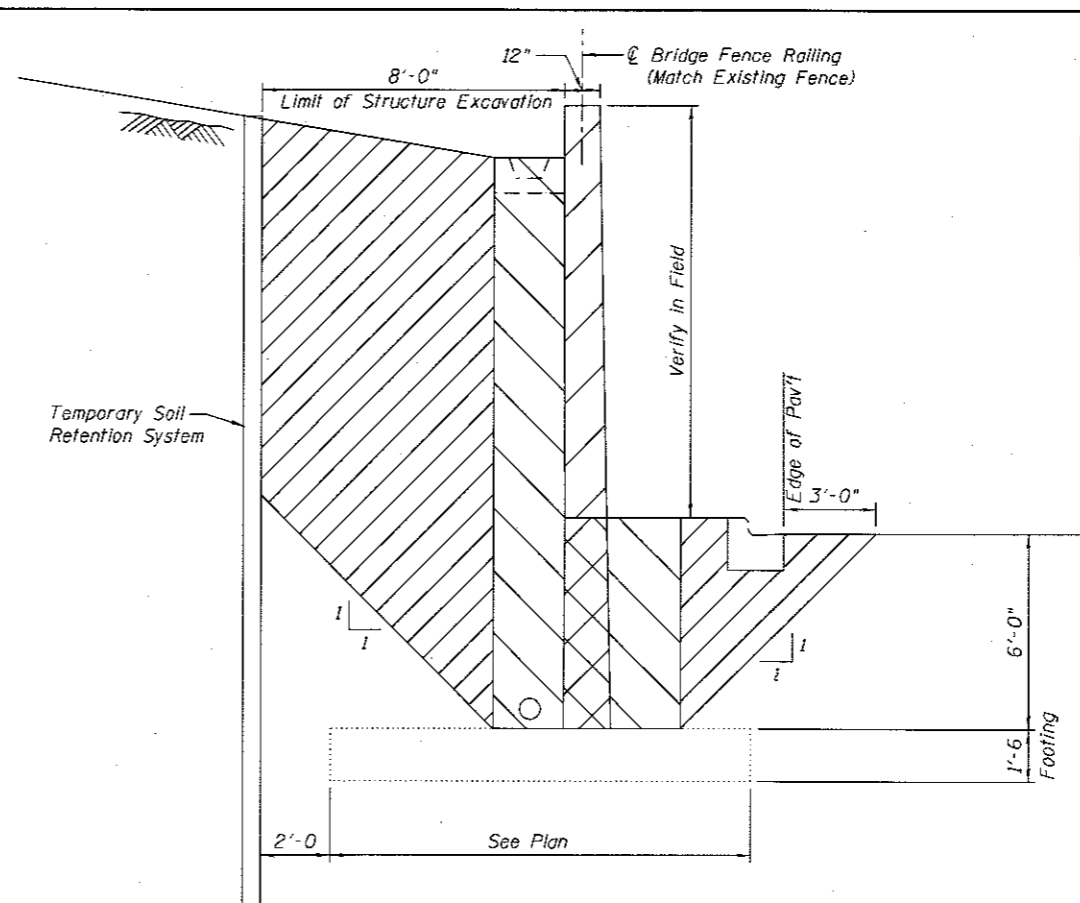
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CONTRACT NO. 62F10				
[ILLINOIS] FED. AID PROJECT				



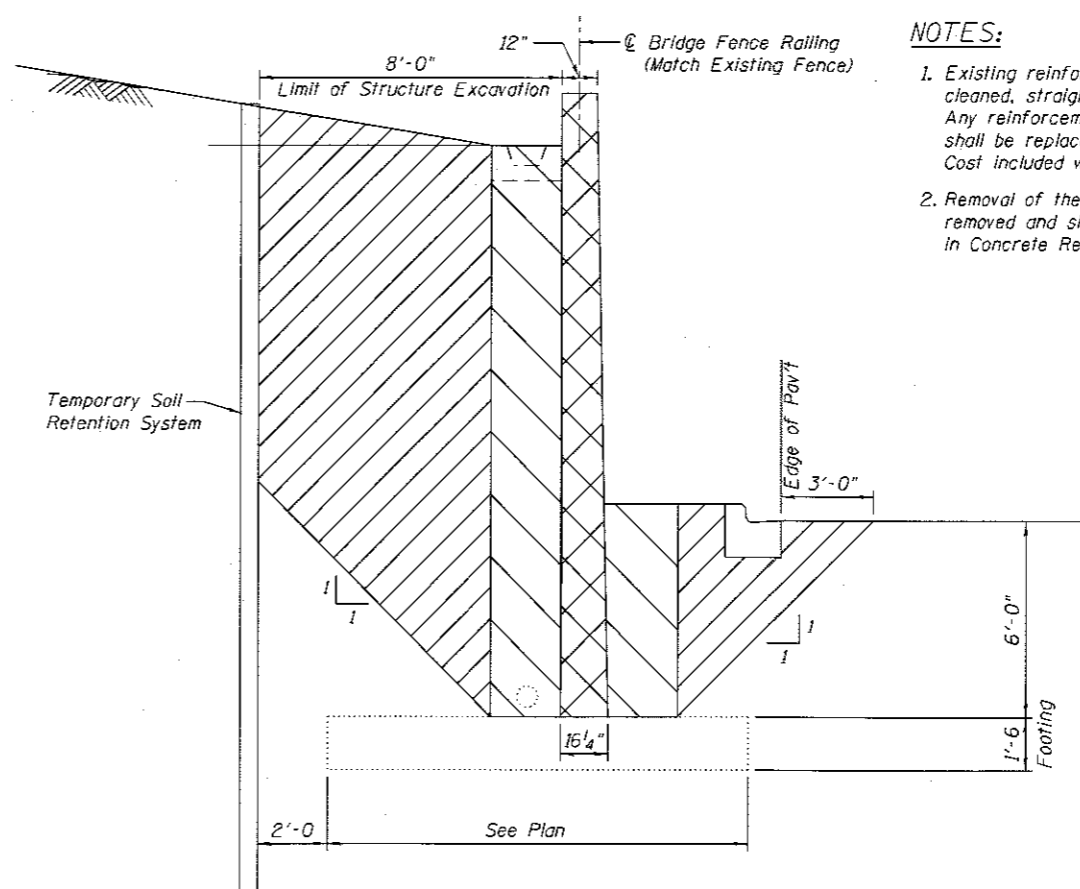
REMOVAL PLAN



REMOVAL ELEVATION



STRUCTURE EXCAVATION FOR WALL PANEL FAILED (SECTION A-A)



STRUCTURE EXCAVATION FOR WALL PANEL REMOVAL (SECTION B-B)

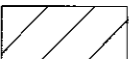

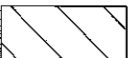
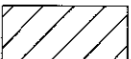
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu Yd	137
Earth Excavation	Cu Yd	673
Structure Excavation	Cu Yd	300

NOTES:

- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal.
- Removal of the portion of the Failed wall that has fallen shall be removed and shall not be paid for separately and shall be included in Concrete Removal.

LEGEND:

-  - Concrete Wall Failed
-  - Concrete Removal
-  - Structure Excavation
-  - Earth Excavation

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

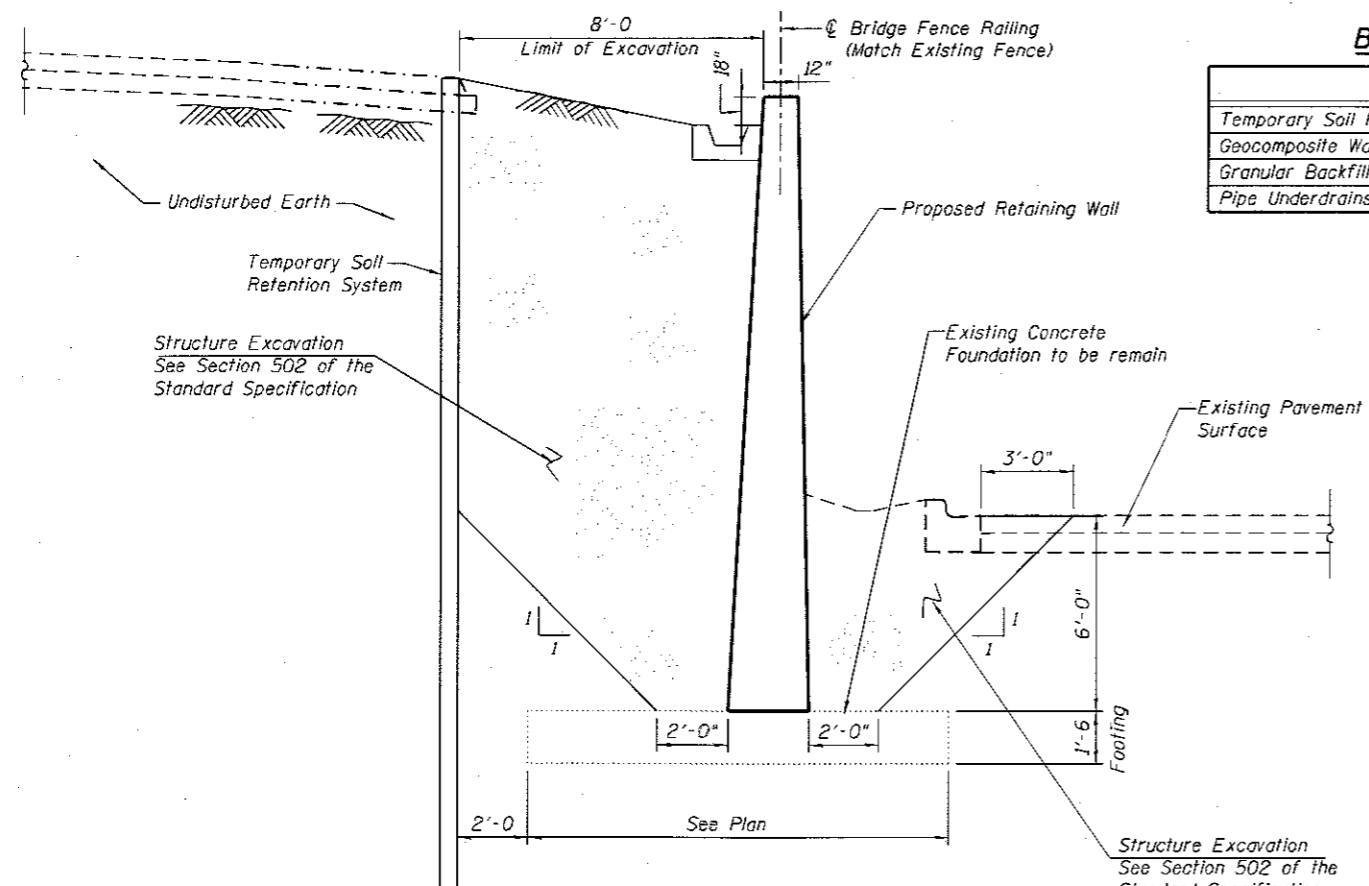
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PLOT SCALE - *SCALE*	DRAWN - TOM	REVISED -
PLOT DATE - 8/6/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

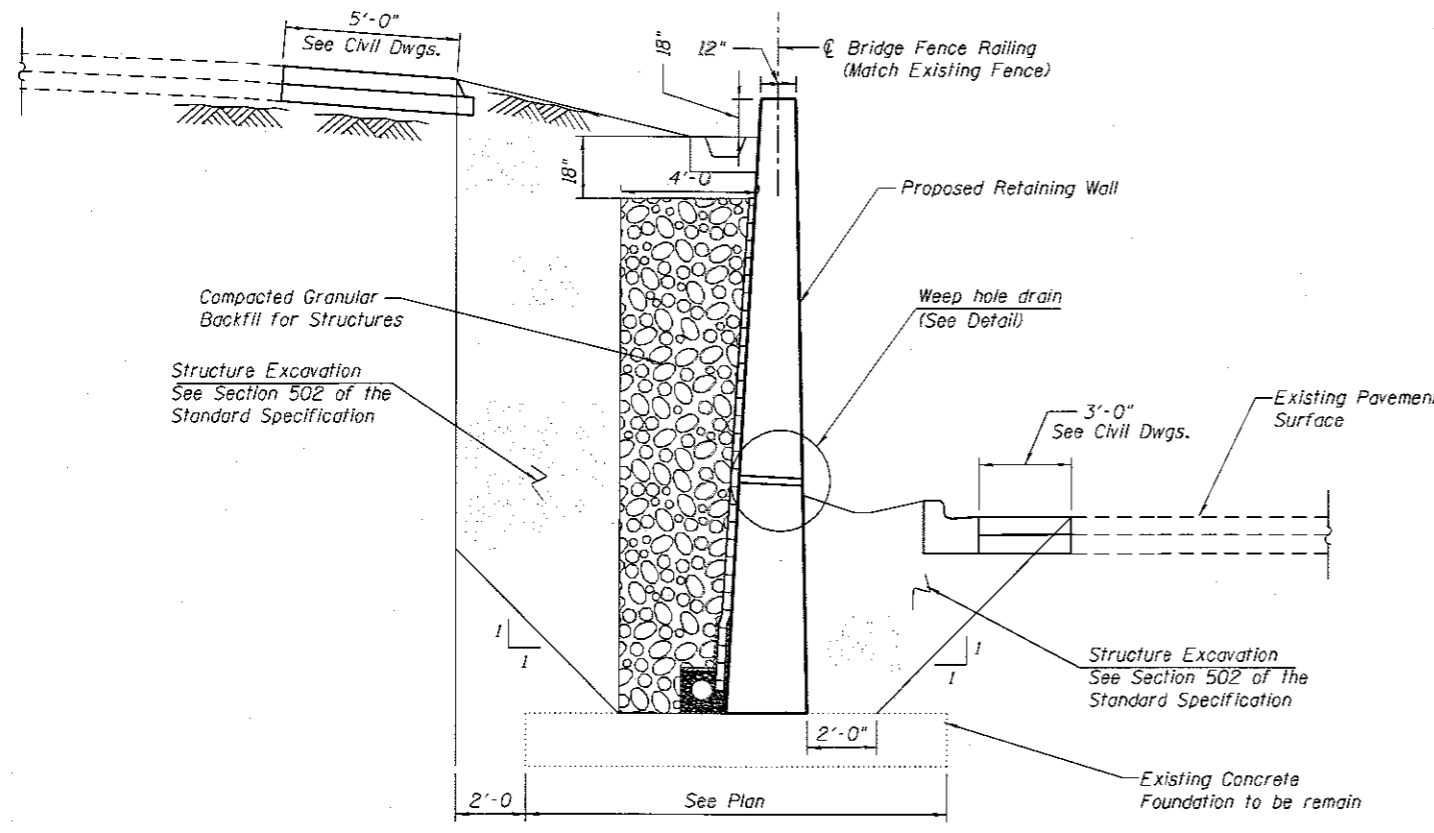
**IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
CONCRETE REMOVAL & EXCAVATION II**

SCALE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	26	17
CONTRACT NO. 62F10			ILLINOIS FED. AID PROJECT	



TEMPORARY SOIL RETENTION SYSTEM



GRANULAR BACKFILL

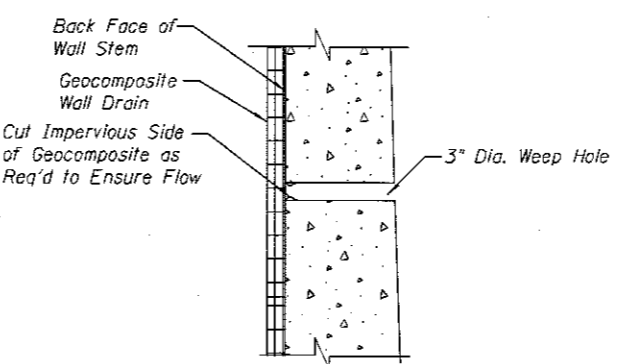
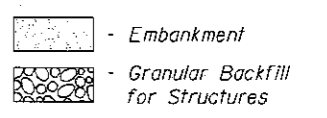
BILL OF MATERIAL

Item	Unit	Quantity
Temporary Soil Retention System	Sq Ft	2070
Geocomposite Wall Drain	Sq Yd	290
Granular Backfill for Structures	Cu Yd	387
Pipe Underdrains For Structures 4"	Foot	182

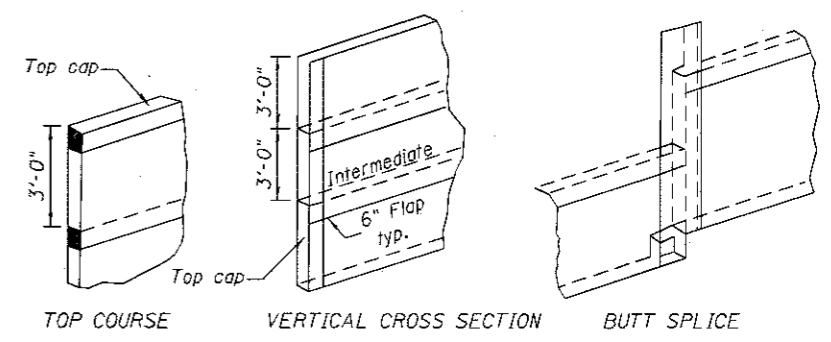
NOTES:

1. The contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, Structure excavation, installation of Temporary Soil Retention System and other loads applied will not have detrimental effects on the adjacent abutments and roadway. Any damage to the adjacent or roadway during construction shall be repaired by the contractor at his expense at no charge to IDOT.

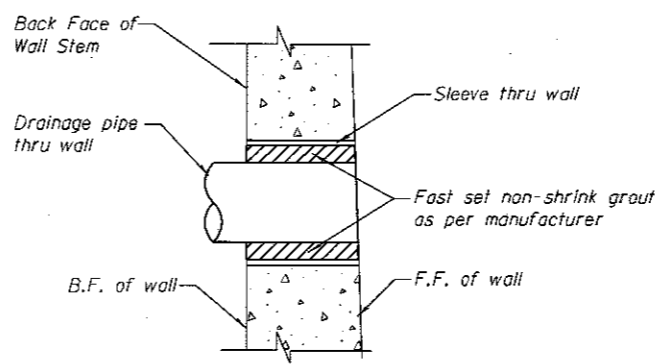
LEGEND:



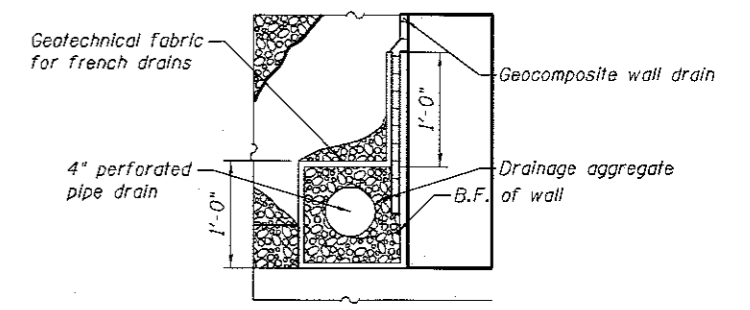
WEEP HOLE DRAIN DETAIL



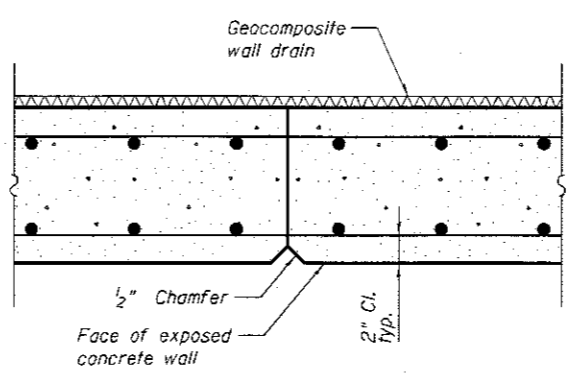
GEOCOMPOSITE WALL DRAIN DETAIL



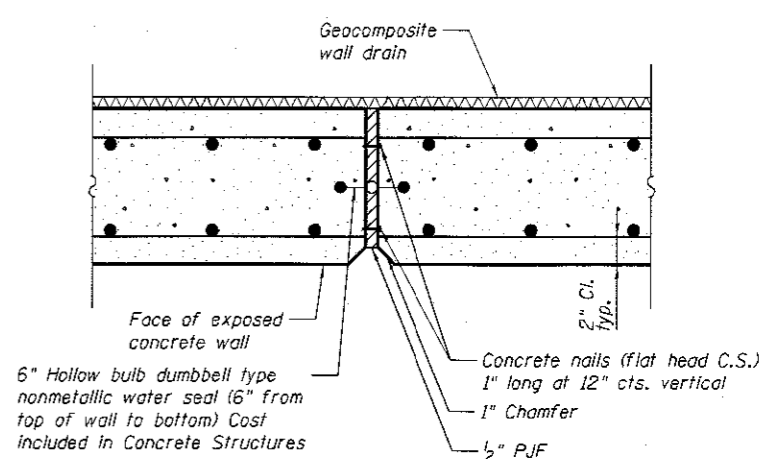
SLEEVE THRU WALL DETAIL



PIPE UNDERDRAIN DETAIL



CONSTRUCTION JOINT



EXPANSION JOINT

PL 606 (08/05) 13-PT1817-204, MD-13-IL-171 Retaining Wall Repairs, 010200, 08 Sheet 18-62F (R-INT-STRUCTURE-Temp. Soil Retention and Backfill.dwg)

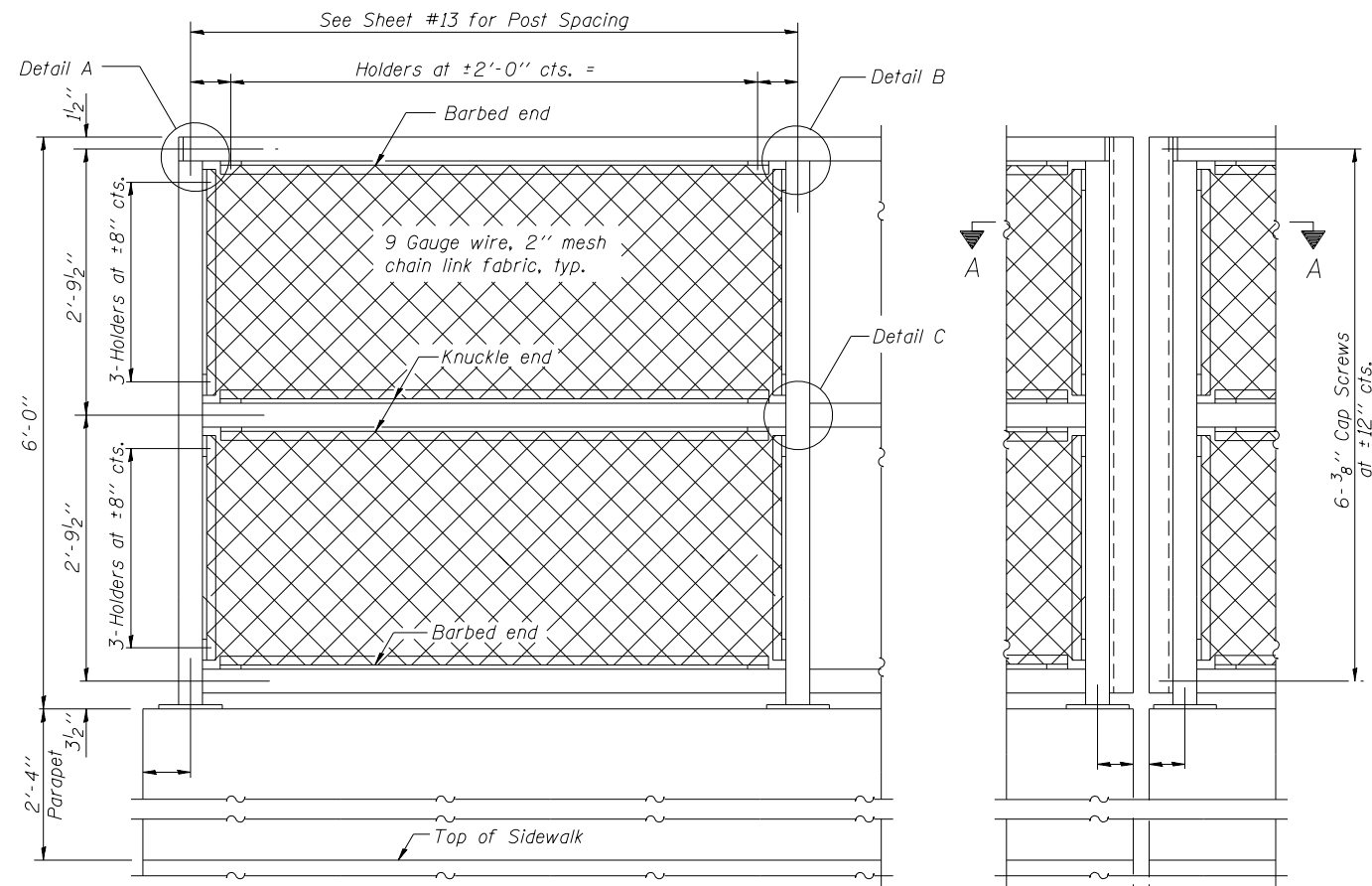
AES Services, Inc.
 111 S. Wacker Drive, Suite 3910
 Chicago, IL 60606
 Ph: 312-236-6783

USER NAME = tmoanmed	DESIGNED - AWM	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - TOM	REVISED -
PLOT DATE = 5/6/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

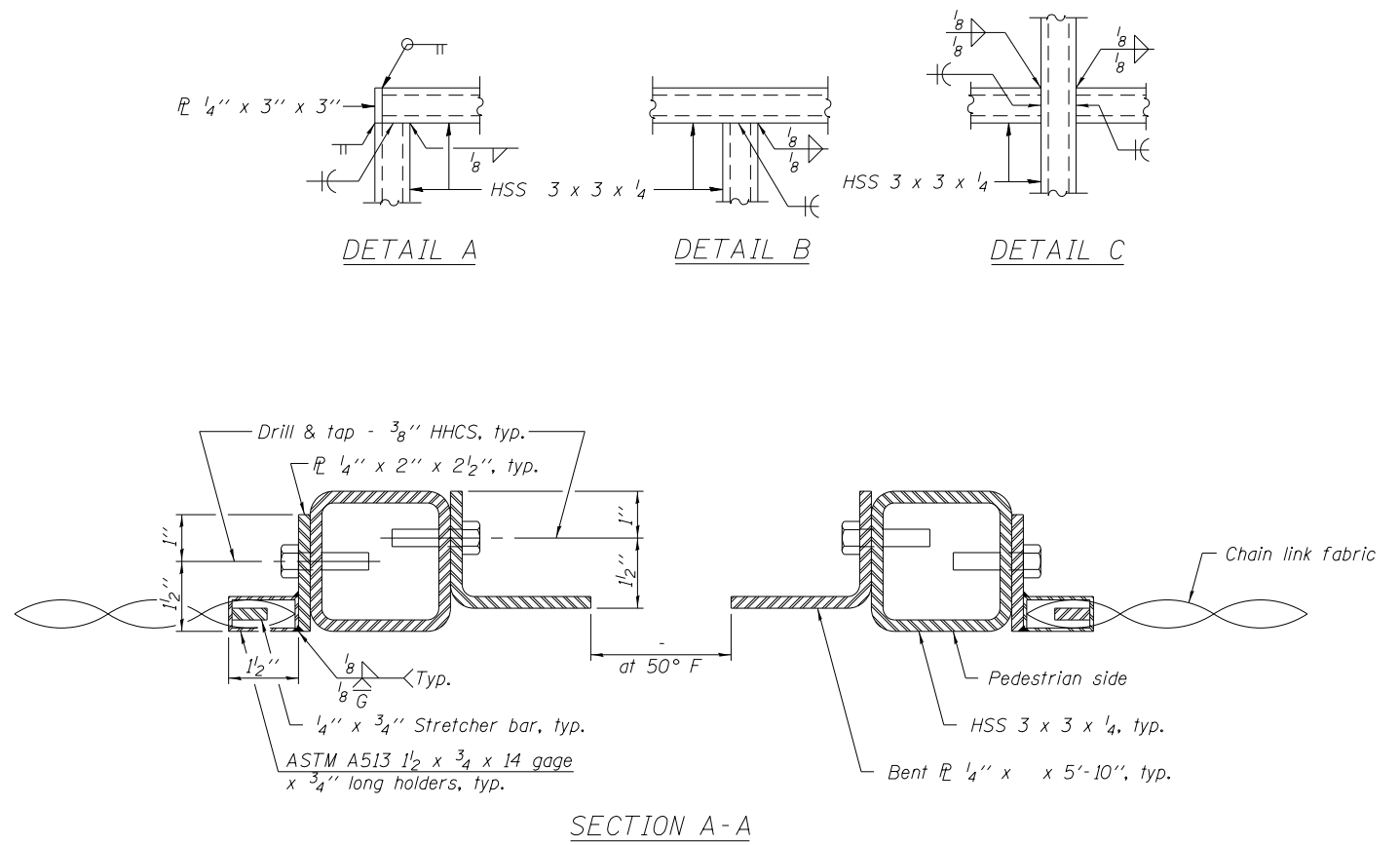
IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS TEMPORARY SOIL RETENTION SYSTEM & BACKFILL	
SCALE	SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	18
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				



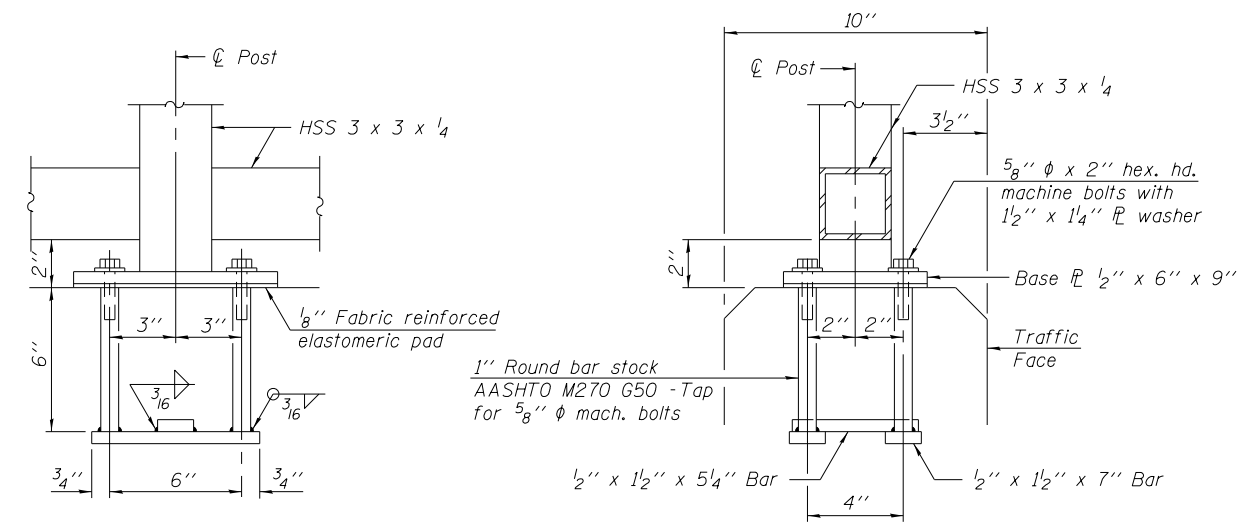
ELEVATION
(Inside Face)

ELEVATION
(At Expansion Joint)



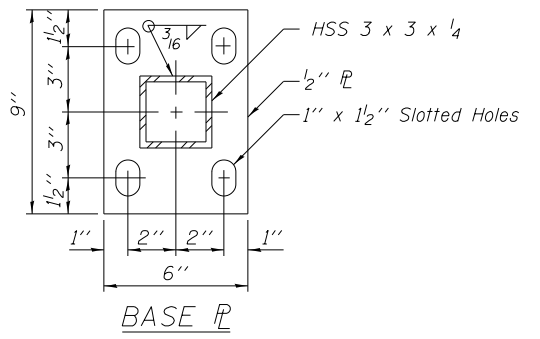
SECTION A-A

A. When railing is galvanized:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

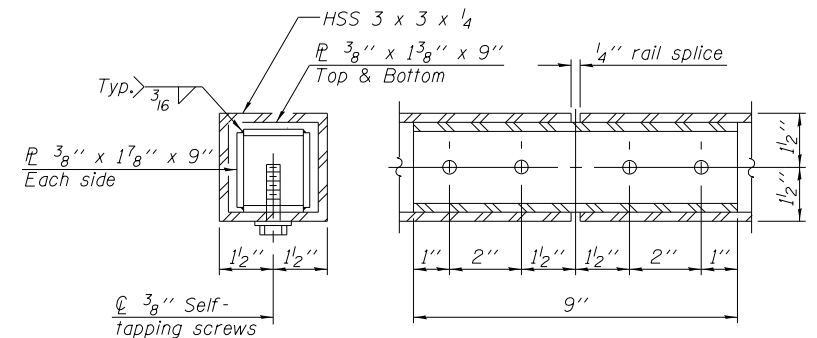


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BASE PL



RAIL SPLICE

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	180

R-28

AES Services, Inc.
111 S. Wacker Drive, Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

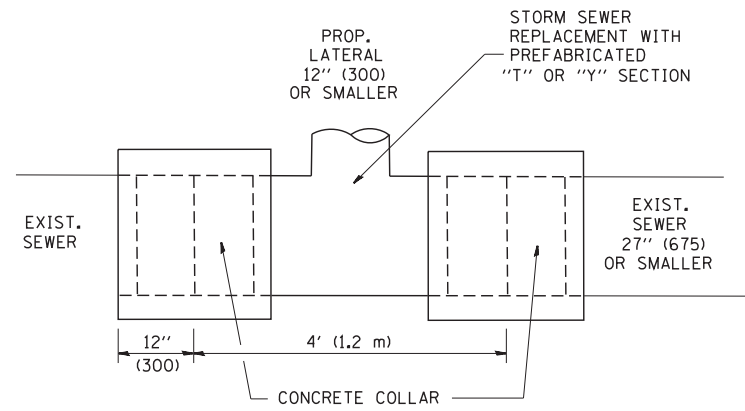
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PLOT DATE = 5/17/2017	CHECKED - JA	REVISED -
	DATE - 05/17/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) & 47th ST. - RETAINING WALL REPAIRS
BRIDGE FENCE RAILING

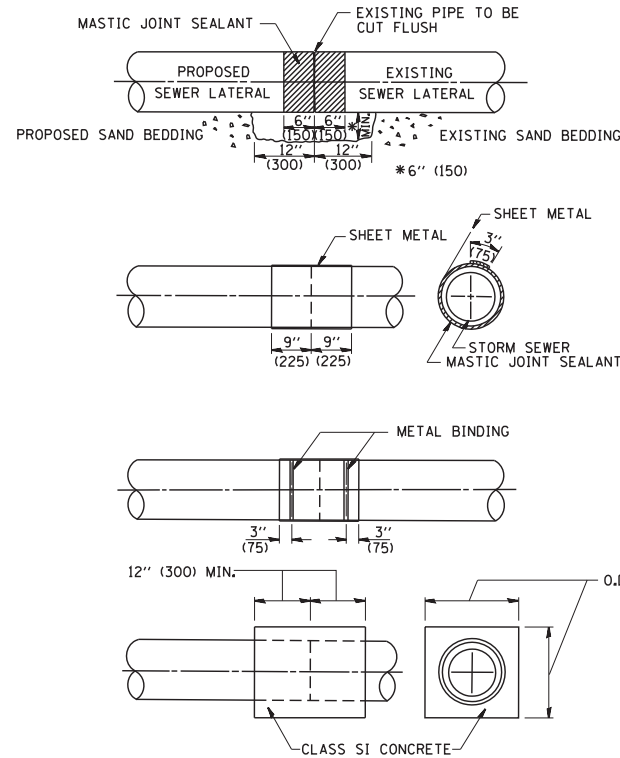
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	19
CONTRACT NO. 62F10				
ILLINOIS FED. AID PROJECT				

SCALE SHEET OF SHEETS STA. TO STA.



DETAIL "A"

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

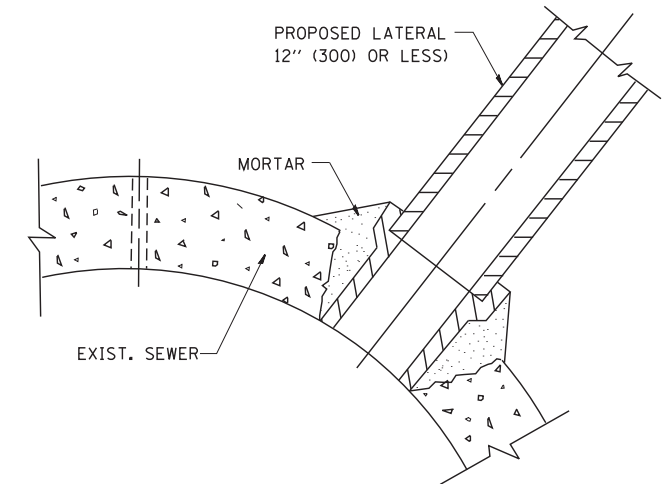


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

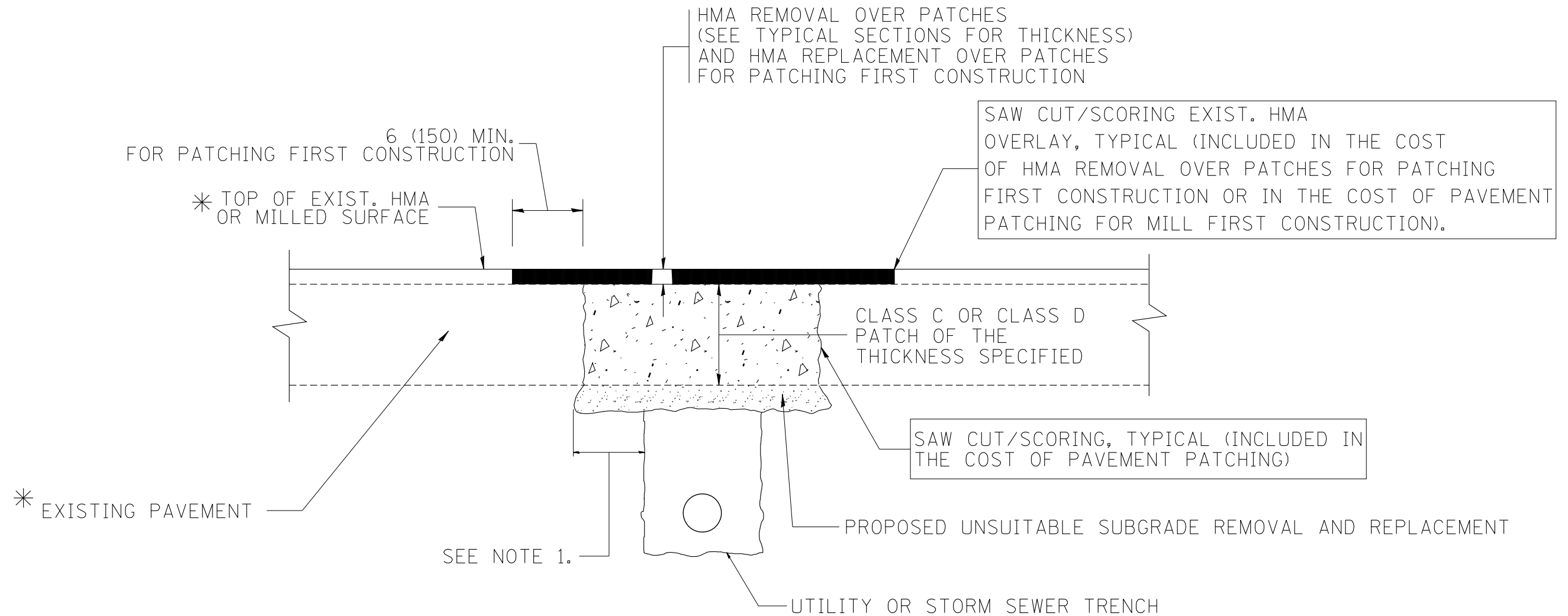
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	20
BD500-01 (BD-7)			CONTRACT NO. 62F10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	21
BD400-04 (BD-22)			CONTRACT NO. 62F10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

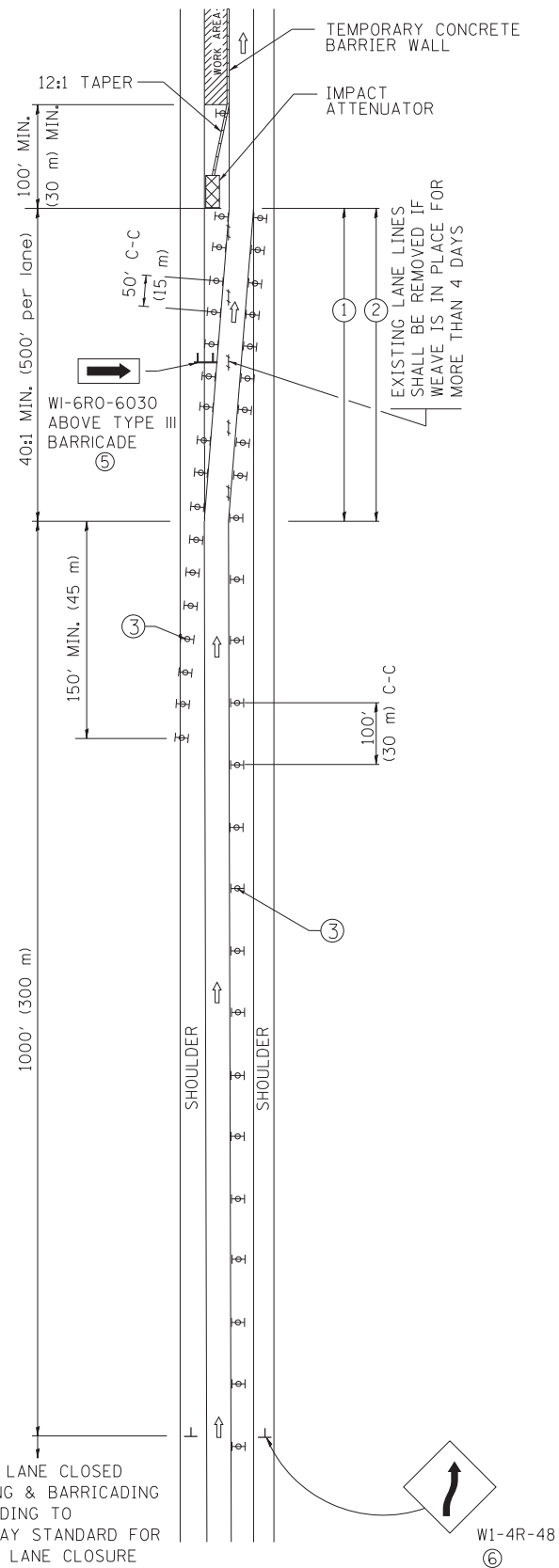
⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

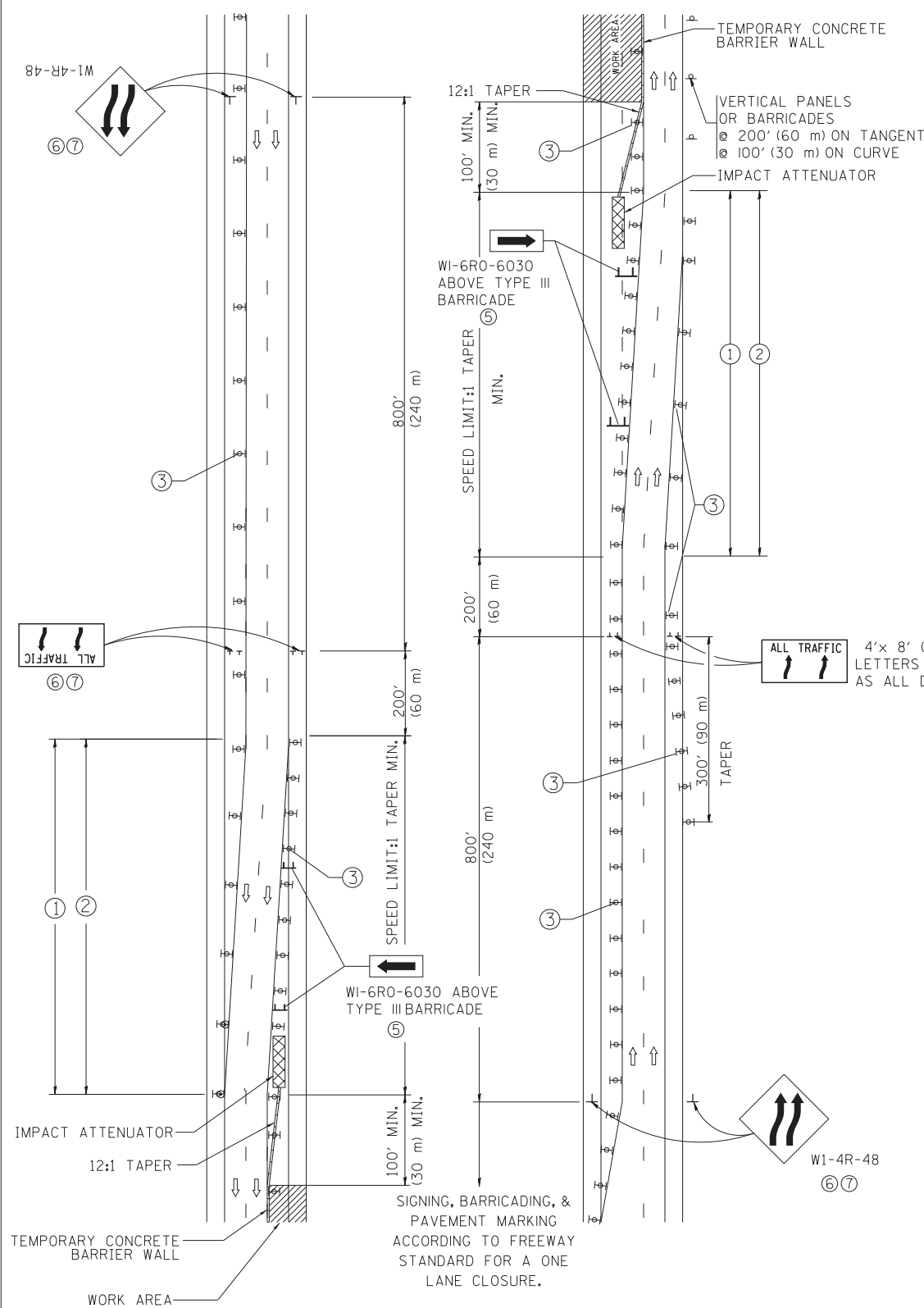
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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ct:\pw\work\p\dot\drivakosgn\0108315\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			372	0102-1	COOK	28	22
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 62F10		
PLOT DATE = 12/15/2009	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SINGLE LANE WEAVE



MULTI-LANE WEAVE



- ### GENERAL NOTES
- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

	DIRECTION OF TRAFFIC
	WORK AREA
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	W1-4R-48
	W24-1-48

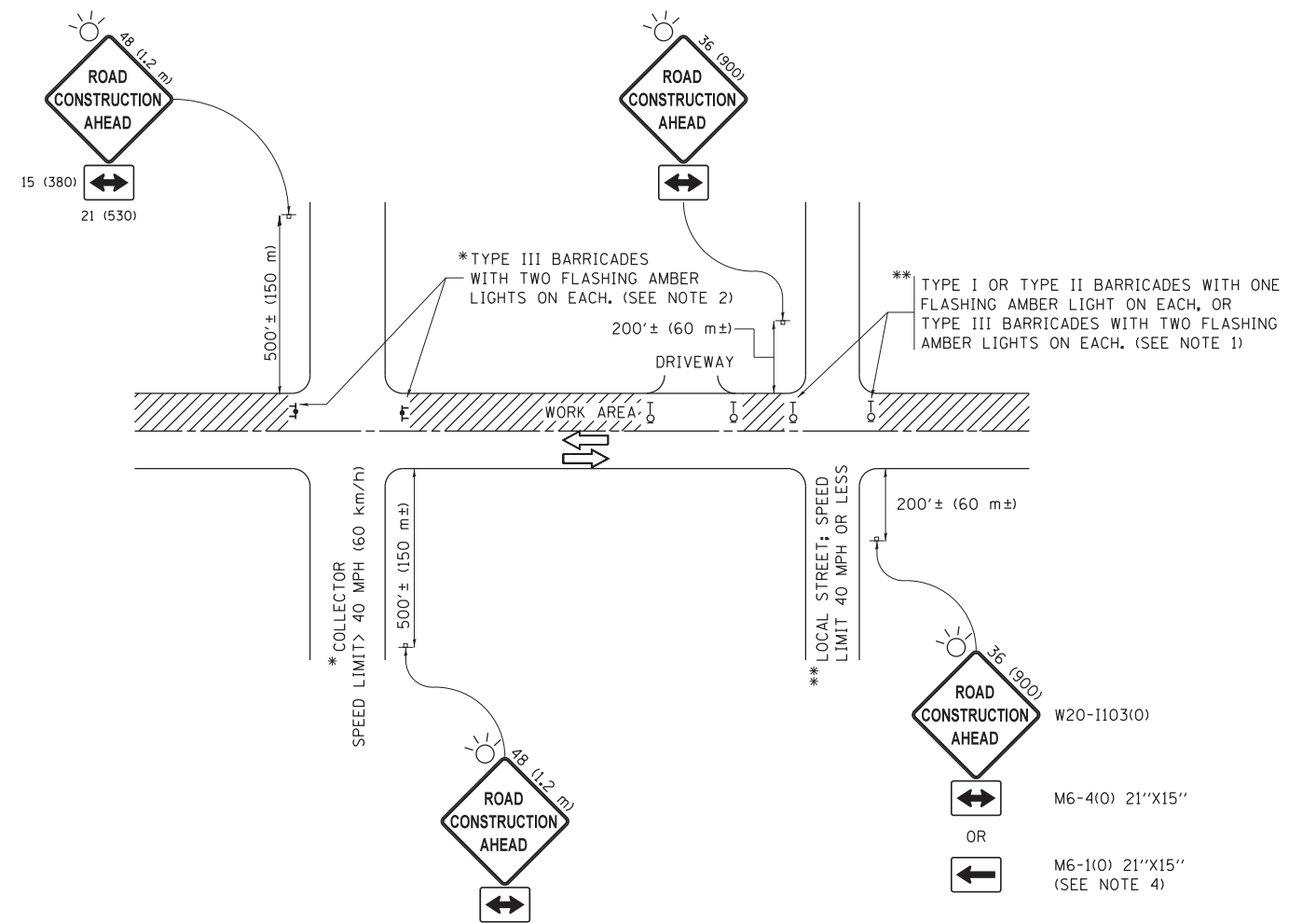
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	23
TC-09		CONTRACT NO. 62F10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

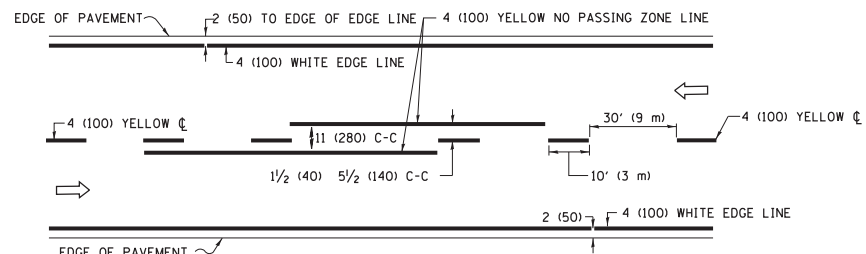
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p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\to\CAD\sheets\tc10.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

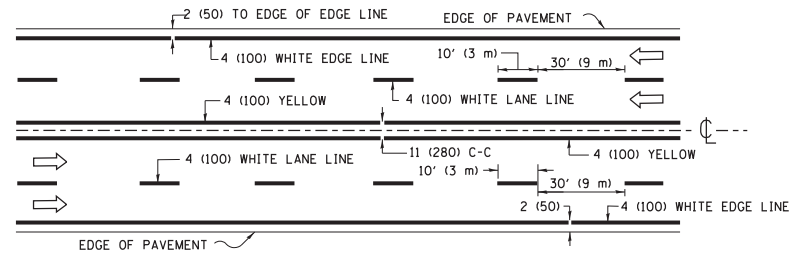
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

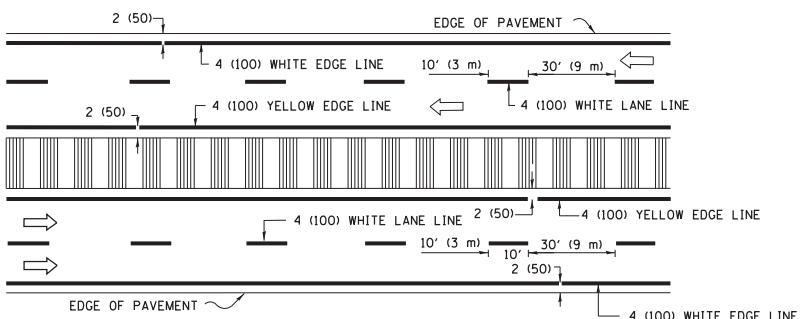
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	0102-1	COOK	28	24
TC-10			CONTRACT NO. 62F10	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

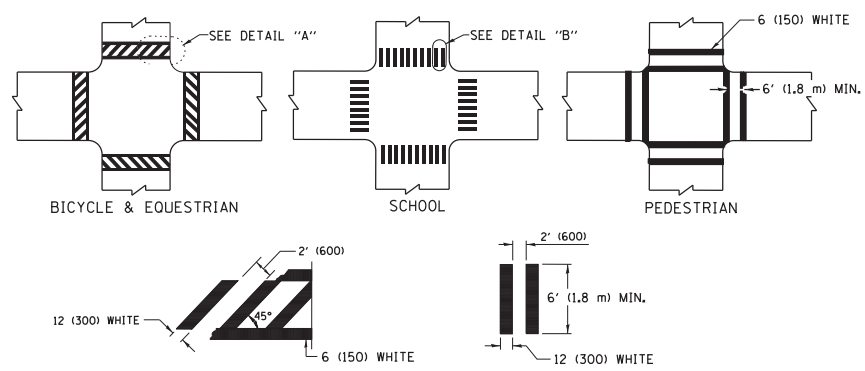


MULTI-LANE UNDIVIDED



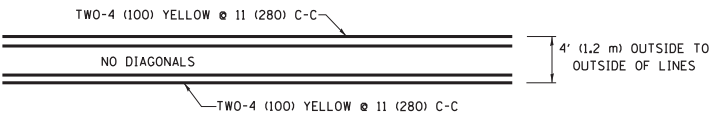
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

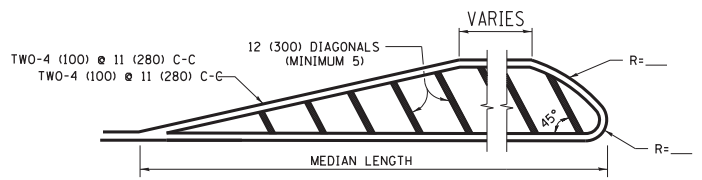


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

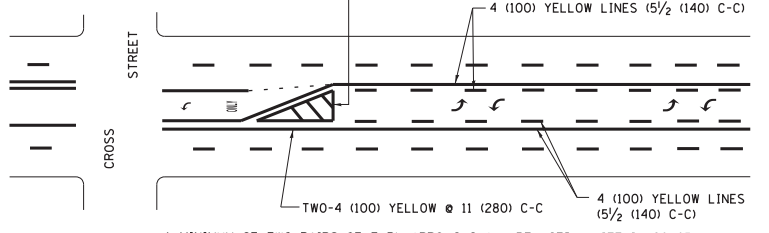


4' (1.2 m) WIDE MEDIANS ONLY

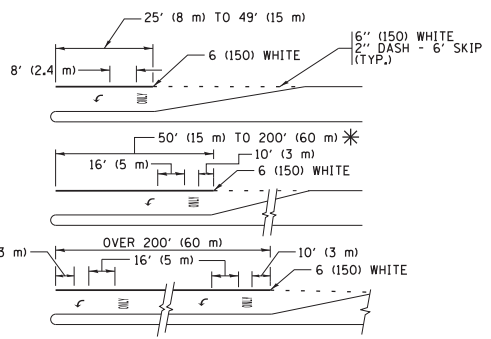


MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

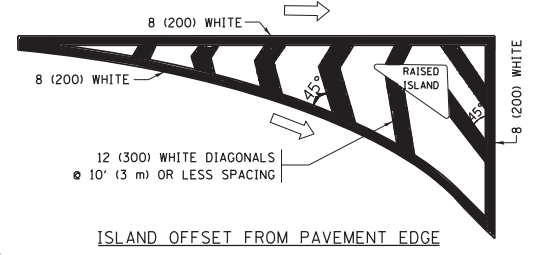


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

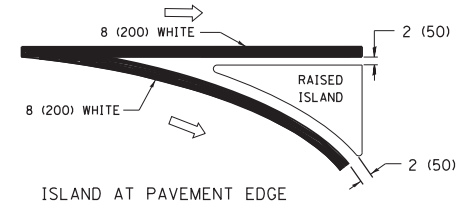


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

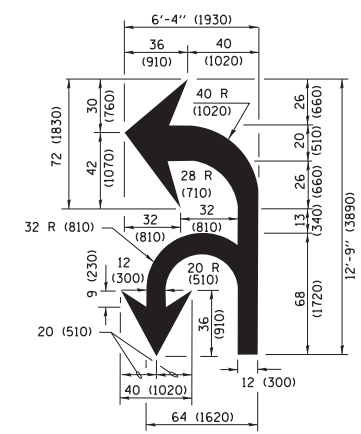
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



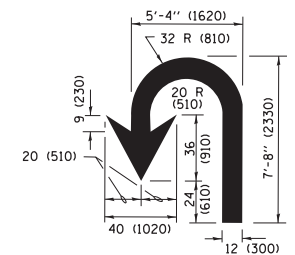
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

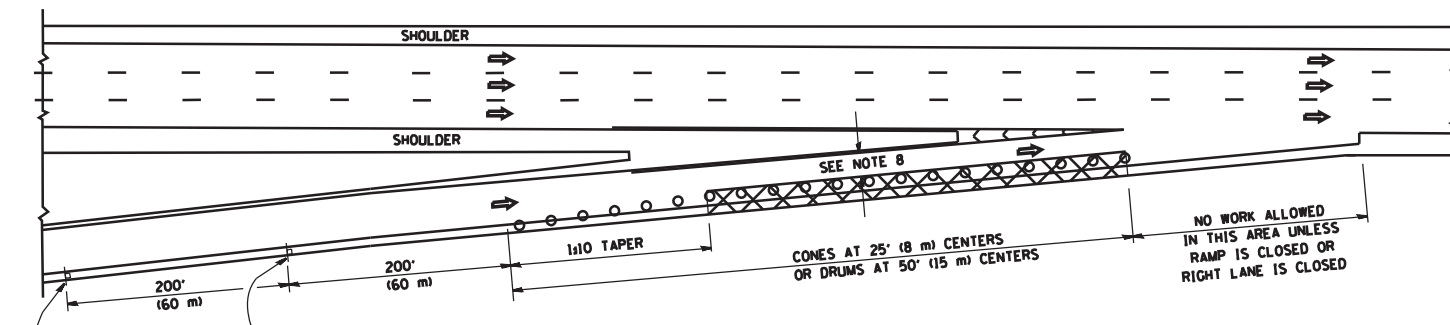
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pw:\IL084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\084EBID\CADD\CAD\Drawings\13.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 50.0000 / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

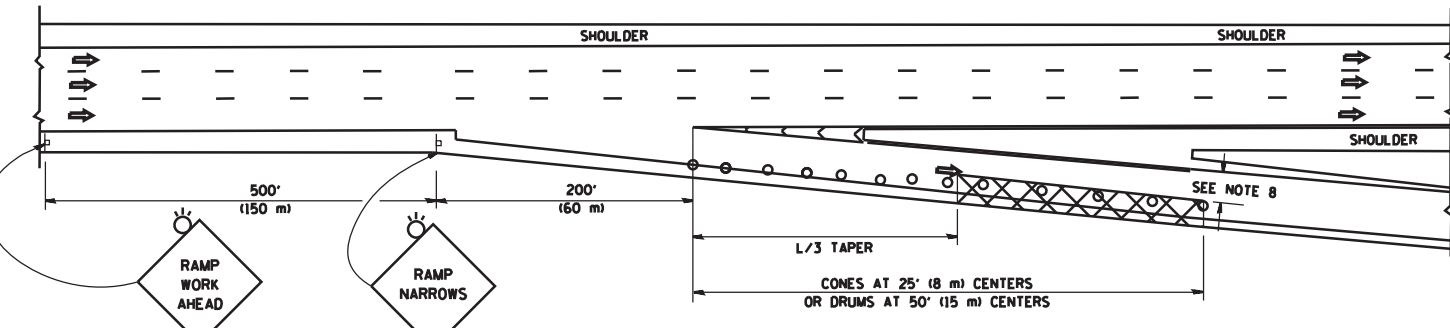
DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE. 372	SECTION 0102-1	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 25
TC-13			CONTRACT NO. 62F10	
ILLINOIS FED. AID PROJECT				

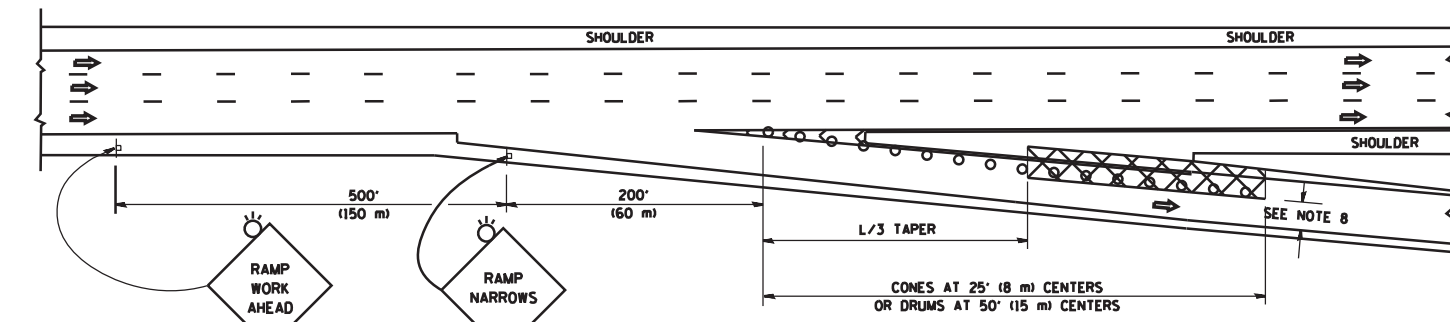
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

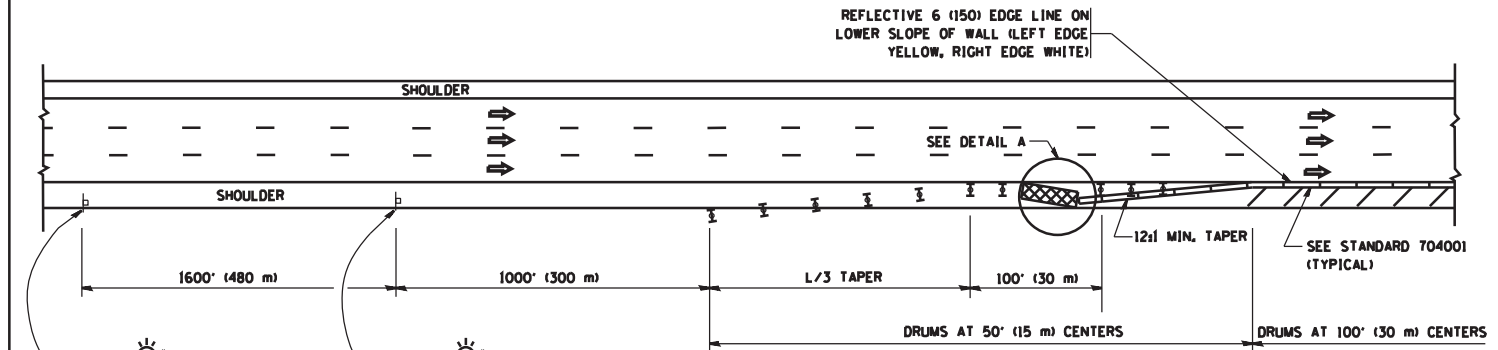
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

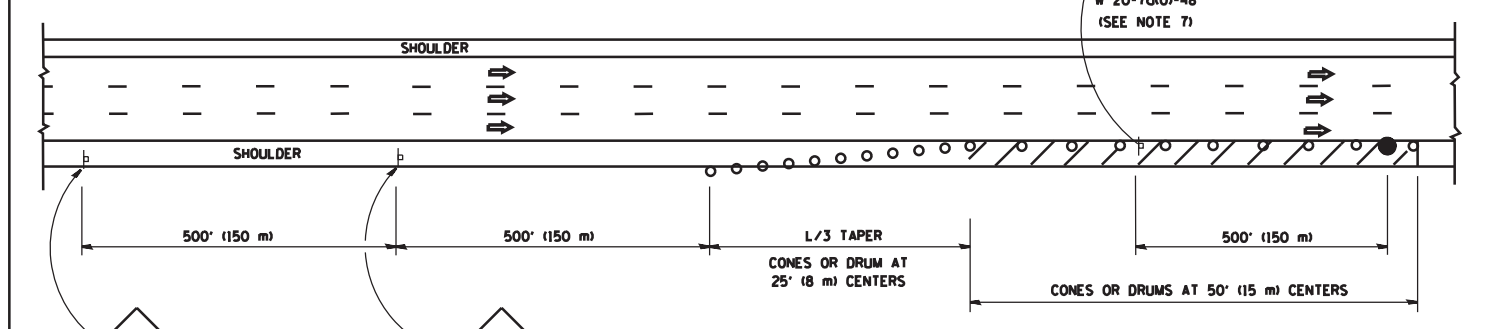
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L = 0.65(WNS)$ $L = (WNS)$

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

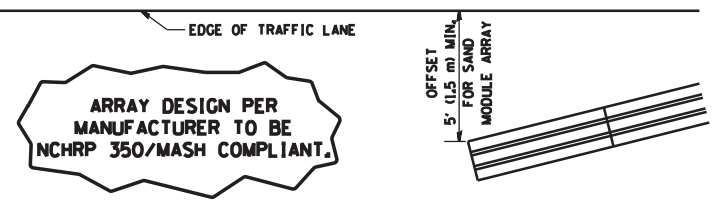
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

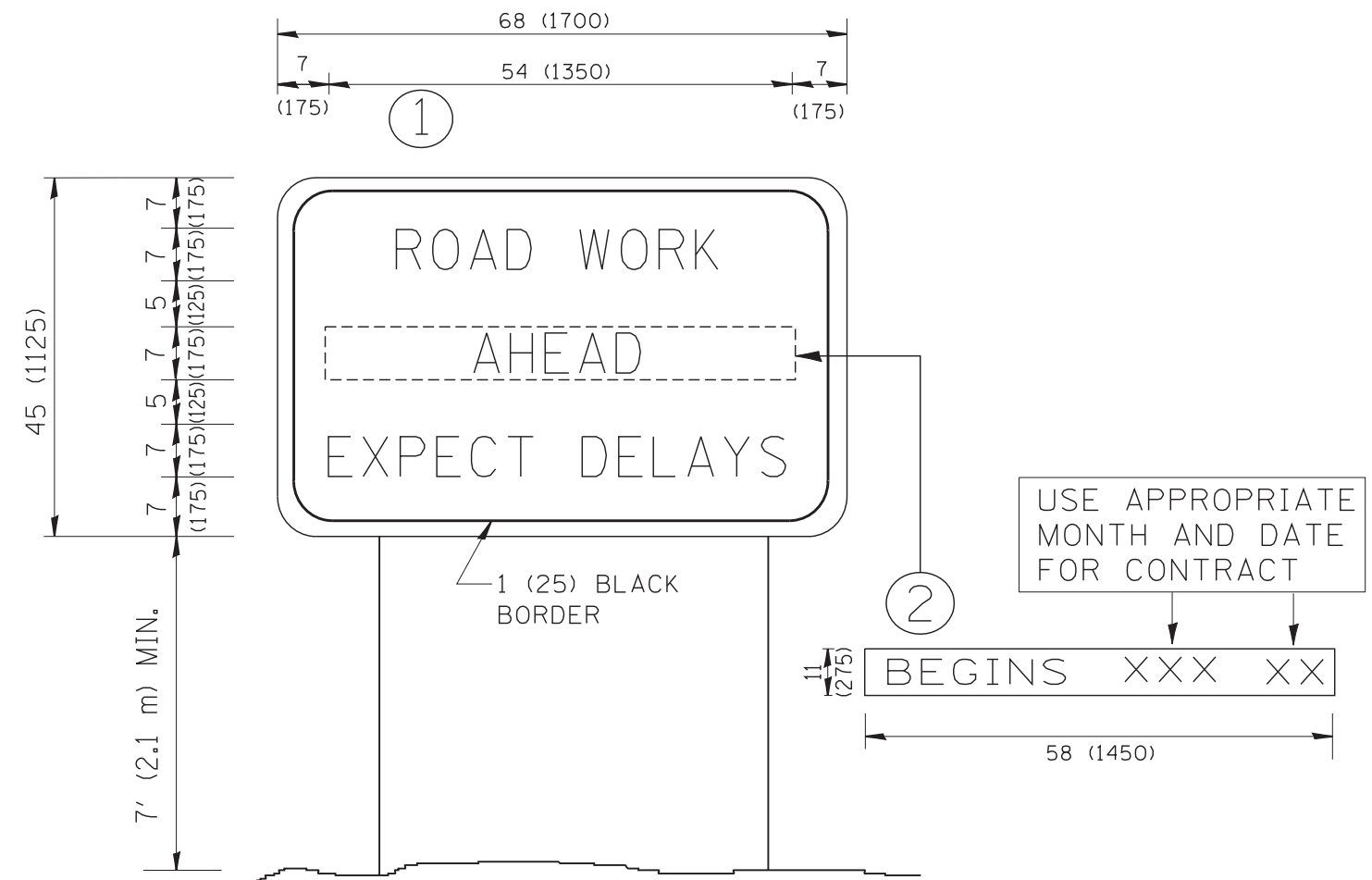


DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = lveysa	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\pwwork\lveysa\0108315\ct17.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		372	0102-1	COOK	28	27			
PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED - S.P.B. 12-09		TC-17			CONTRACT NO. 62F10				
PLOT DATE = 4/17/2014		DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegltonbt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE. 372	SECTION 0102-1	COUNTY COOK	TOTAL SHEETS 28	SHEET NO. 28
TC-22			CONTRACT NO. 62F10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				