FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN

THE VILLAGE OF LIBERTYVILLE

2019 ADT = 13,500 (8% TRUCKS)

POSTED SPEED LIMIT = 50 MPH

TRAFFIC DATA

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

DESIGN CLASSIFICATION = OTHER PRINCIPAL ARTERIAL

0

0

0

0

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

#### 

#### D-91-177-21

ADMEDIA SANGLEDA SANG

# ORION

LOCATION OF SECTION INDICATED THUS: -

LICENSED

PROFESSIONAL ENGINEER

**EXPIRES NOV. 30, 2023** 

SIGNATURE
JUN. 02, 2022

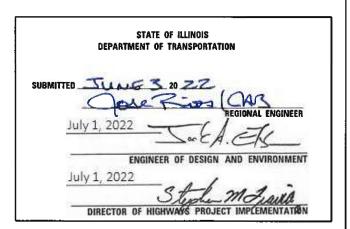
081-007565

LICENSED STRUCTURAL ENGINEER

**EXPIRES NOV. 30. 2022** 

SIGNATURE

JUN. 02, 2022



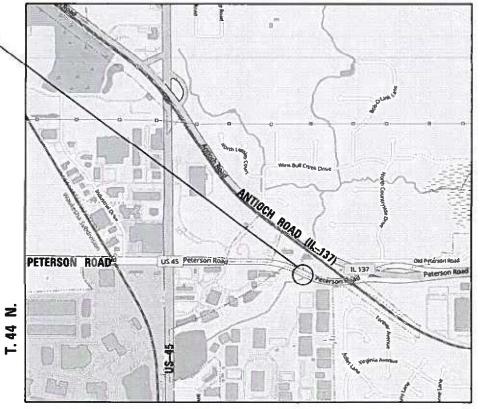
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 371 (PETERSON ROAD) OVER DITCH 0.4 MILES EAST OF US-45 (LAKE STREET) SECTION 2021-066-CR CULVERT REPAIR (STRUCTURE NO. 049-0532) LAKE COUNTY

C-91-213-21

PROJECT LOCATION STRUCTURE NO. 049-0532 3rd PM R. 11 E.



LOCATION MAP

GROSS LENGTH = 410 FT. = 0.078 MILE NET LENGTH = 410 FT. = 0.078 MILE

0 100′ 200′ 300′ 1" 100′ 0 10′ 20′ 30′ 1" 100′ 0 50′ 100′ 1 = 50′ 0 50′ 100′ 1 = 40′ 0 50′ 100′ 1 = 30′ 0 50′ 100′ 1 = 20′

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.1.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: PRAVEEN KAINI, P.E. (847–705–4237)
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847–221–3056)

CONTRACT NO. 62P04

#### **INDEX OF SHEETS**

SHEET NO. SHEET TITLE

COVER SHEET

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS

SUMMARY OF QUANTITIES

ROADWAY TYPICAL SECTIONS

ROADWAY PLAN

TRAFFIC CONTROL TYPICAL SECTIONS

TRAFFIC CONTROL STAGING PLAN

EROSION CONTROL PLAN GENERAL PLAN AND ELEVATION

CULVERT REPAIR DETAILS

CULVERT RECORD DRAWING

SOIL BORING LOGS

TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)

TEMPORARY INFORMATION SIGNING (TC-22)

#### **HIGHWAY STANDARDS**

000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS AREAS OF REINFORCEMENT BARS 001001-02 TEMPORARY EROSION CONTROL SYSTEMS 280001-07 STEEL PLATE BEAM GUARDRAIL 630001-12 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701006-05 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY 701011-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH 701201-05 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701301-04 TRAFFIC CONTROL DEVICES 701901-08

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 782006-01

#### **IDOT DISTRICT 1 STANDARD DRAWINGS**

TEMPORARY CONCRETE BARRIER

STANDARD NO. DESCRIPTION

704001-08

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS TC - 10

ARTERIAL ROAD INFORMATION SIGN TC - 22

#### **GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LIBERTYVILLE. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PRIOR TO START OF CONSTRUCTION.

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

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE, BRIDGE SECTION.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJACENT PROPERTY AT ALL TIMES DURING THE CONSTRUCTION PROJECT.

THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR TO MAINTAIN ALL EXISTING GRADES ALONG EXISTING WATERMAIN TO ENSURE PROPER PIPE COVERAGE.

#### **COMMITMENTS**

ENGINEERS

USER NAME = BBUTTERFIELD	DESIGNED - BB	REVISED -
	DRAWN - NP	REVISED -
PLOT SCALE = 100.0000 / in	CHECKED - LJ	REVISED -
PLOT DATE = 6/3/2022 2:16:19 PM	DATE - 11/12/2021	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY INDEX OF SHEETS, HIGHWAY STANDARDS, 2021-066-CR LAKE 15 2 **GENERAL NOTES, AND COMMITMENTS** CONTRACT NO. 62P04 OF SHEET

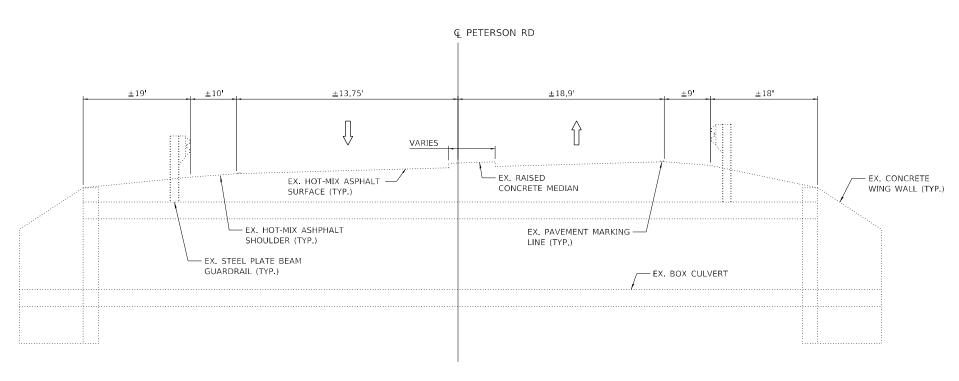
					CONSTRUCTION CODE  CONTRACT MAINTENANCE					CONSTRUCTION CODE  CONTRACT MAINTENANCE
SP	CODE	ITEM	LINIT	URBAN TOTAL QUANTITY	100% STATE BOX CULVERT 0004	SP CODE	ITEM	LINIT	URBAN  TOTAL QUANTITY	100% STATE BOX CULVERT 0004
	NO.				049-0532	NO.				049-0532
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	40	40	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	455.5	455.5
	25000210	SEEDING, CLASS 2A	ACRE	0.08	0.08	67100100	MOBILIZATION	L SUM	1	1
	25000210	SELOTING, CEASS 2A	ACINE		0.00		THE PART OF THE PA	L SOM		
	25000312	SEEDING, CLASS 4A	ACRE	0.27	0.27	70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	7.2	7.2	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	7.2	7.2	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1540	1540	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	28000305	TEMPORARY DITCH CHECKS	FOOT	40	40	78200011	BARRIER WALL REFLECTOR, TYPC C	EACH	61	61
	28000400	PERIMETER EROSION BARRIER	FOOT	637	637	* X0322906	WEEP HOLES CORED	EACH	12	12
	50102400	CONCRETE REMOVAL	CU YD	4.1	4.1	*   X6700407 	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
	50200100	STRUCTURE EXCAVATION	CU YD	12.2	12.2	* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
	50300225	CONCRETE STRUCTURES	CU YD	4.7	4.7	* Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5 INCHES)	SQ FT	16	16
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	720	720	* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
	52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	293	293	* Z0064600	SELECTIVE CLEARING	ACRE	0.022	0.022
						66901001	REGULATED SUBSTANCES PRE - CONSTRUCTION PLAN	L SUM	1	1
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	11.4	11.4	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
						66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	58700300	CONCRETE SEALER	SQ FT	188	188					

ORION	
ENGINEERS	

USER NAME = BBUTTERFIELD	DESIGNED - BB	REVISED -
	DRAWN - NP	REVISED -
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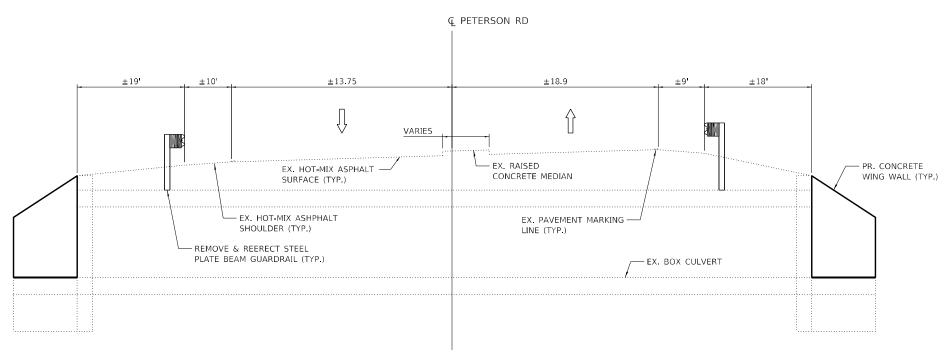
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			F.A.P. RTE.	SECTION	COU
SUMMAR	ly of Qu	JANTITIES	371	2021-066-CR	LA
					CON
SHEET	OF	SHEETS		LILINOIS ( FED. A)	ID DBOILE



EXISTING TYPICAL SECTION
AT STRUCTURE NO. 049-0532
LOOKING EAST

ALL DIMENSIONS ARE PERPENDICULAR TO THE Q OF PETERSON ROAD.



#### PROPOSED TYPICAL SECTION

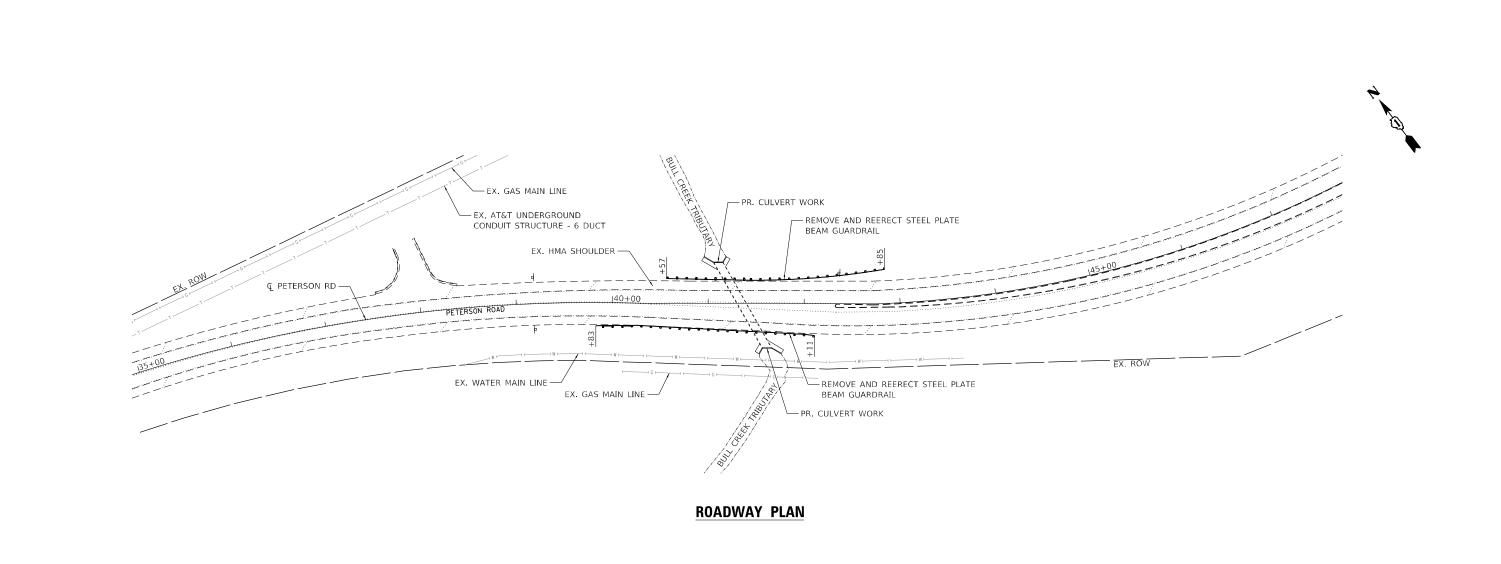
AT STRUCTURE NO. 049-0532 LOOKING EAST

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		F.A.P. RTE	SEC <sup>-</sup>	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.		
		371	2021-0	66-CR		LAKE	15	4		
								CONTRAC	T NO. 6	52P04
SHEET	OF	SHEETS				ILLINOIS	FED. A	ID PROJECT		



ORION
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 ROADWAY
 PLAN
 F.A.P. RTE.
 SECTION
 COUNTY SHEETS
 TOTAL SHEETS NO.

 371
 2021-066-CR
 LAKE
 15
 5

 CONTRACT

 SHEET
 OF
 SHEETS
 ILLINOIS FED. AID PROJECT

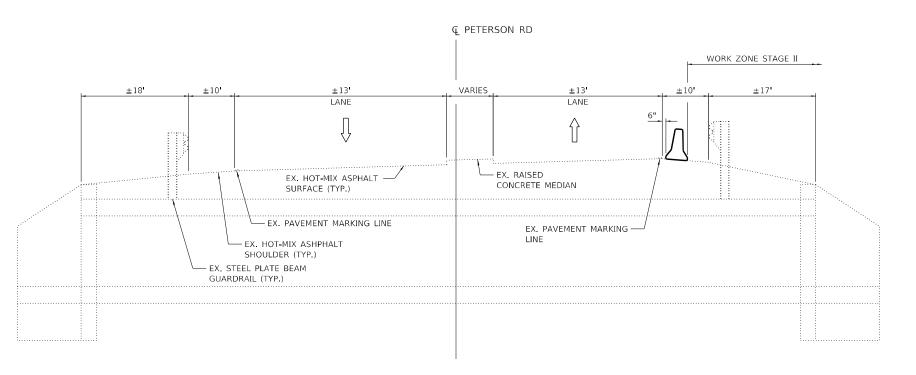
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#### TRAFFIC CONTROL TYPICAL SECTION - STAGE I

AT STRUCTURE NO. 049-0532 LOOKING EAST

ALL DIMENSIONS ARE PERPENDICULAR TO THE Q OF PETERSON ROAD.



#### TRAFFIC CONTROL TYPICAL SECTION - STAGE II

AT STRUCTURE NO. 049-0532 LOOKING EAST

#### **LEGEND**

\_\_>

DIRECTION OF TRAFFIC

 $\prod$ 

TEMPORARY CONCRETE BARRIER

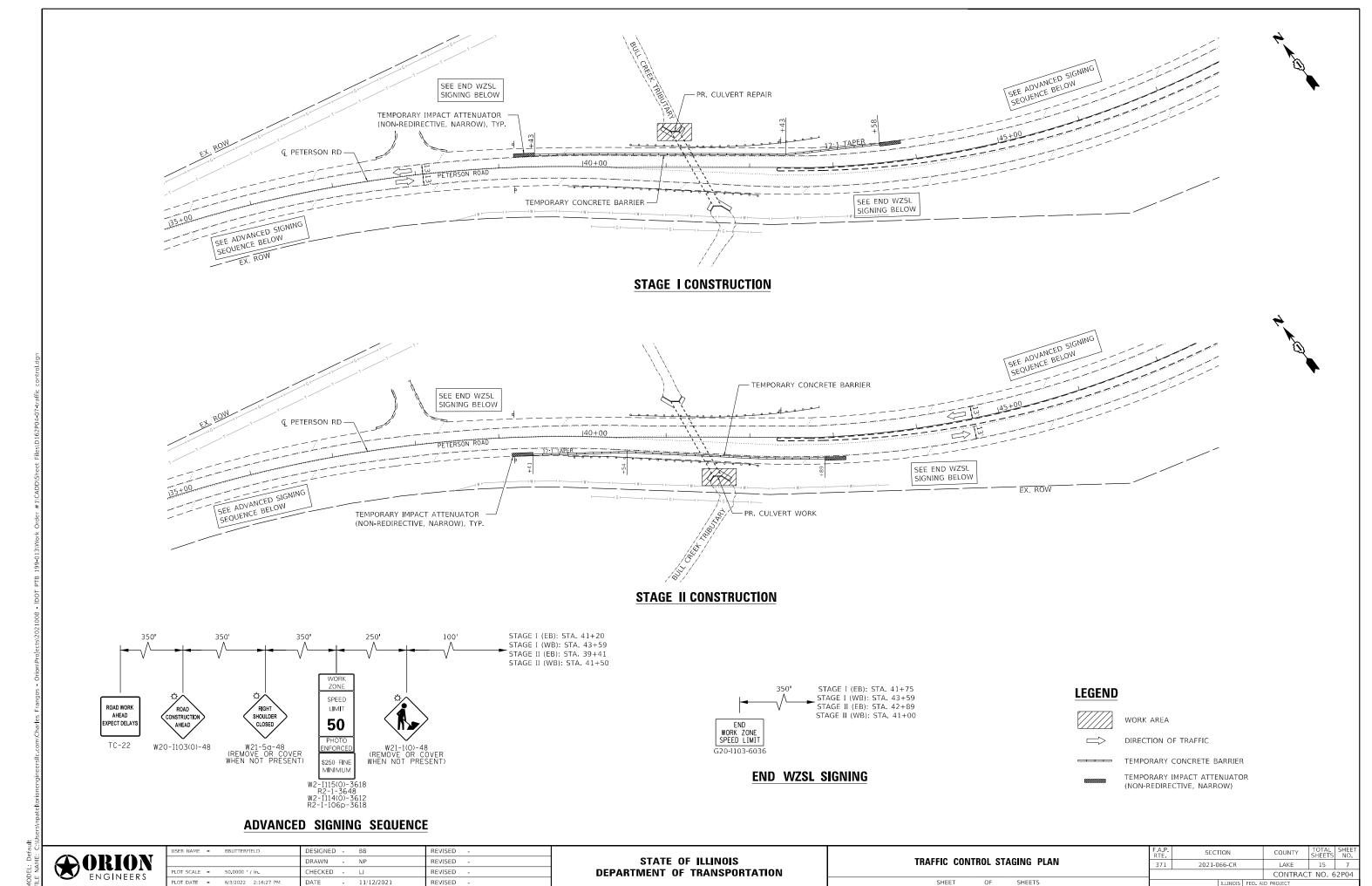


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL TYPICAL SECTIONS

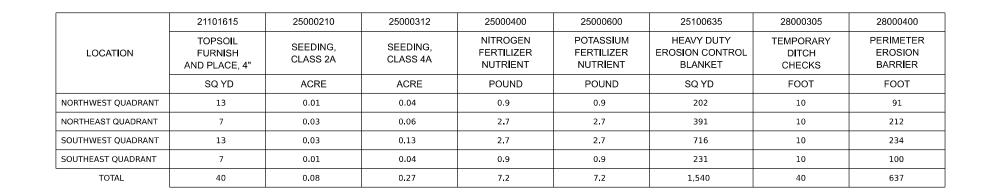
SHEET OF SHEETS

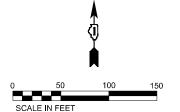
F.A.P. SECTION COUNTY TOTAL SHEETS NO. 371 2021-066-CR LAKE 15 6 CONTRACT NO. 62P04

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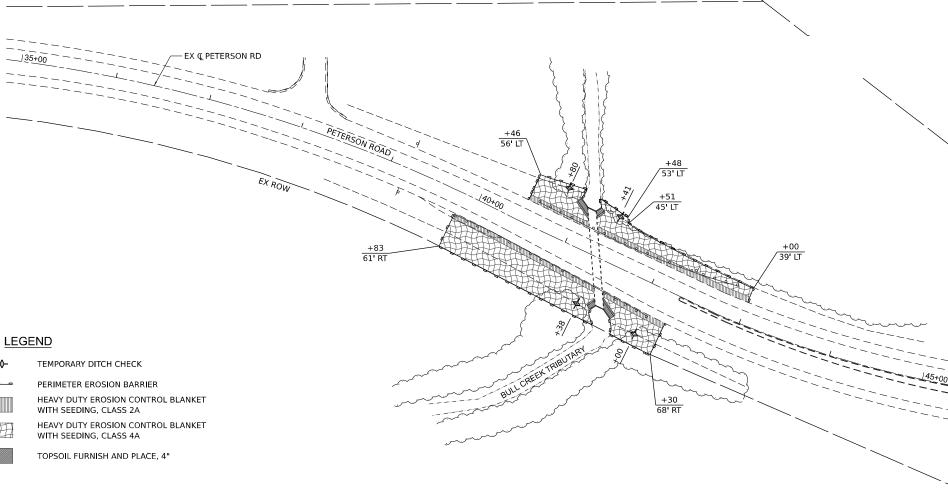


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EX ROW



#### NOTES

- SEEDING, CLASS 2A SHALL BE PLACED FOR A WIDTH OF SIX (6) FEET FROM THE EDGE OF PAVEMENT AND SEEDING, CLASS 4A SHALL BE PLACED BEYOND SEEDING, CLASS 2A TO THE LIMITS OF THE R.O.W OR AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- 3. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL PRIOR TO THE START OF ANY EARTHWORK.
- 5. THE LIMITS OF SELECTIVE CLEARING ARE NOT SHOWN ON THIS SHEET; HOWEVER, THE CONTRACTOR SHALL CLEAR EXISTING VEGETATION AND SHRUBBERY WITHIN DIRECT VICINITY OF THE PROPOSED WORK AND AS NECESSARY TO FACILITATE CONSTRUCTION EQUIPMENT ACCESS. THE FINAL QUANTITY FOR SELECTIVE CLEARING SHALL BE MEASURED IN THE FIELD AND APPROVED BY THE ENGINEER.



USER NAME = jennifer morales	DESIGNED - AOA	REVISED -
	DRAWN - AOA	REVISED -
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PLOT DATE = 1/13/2022	DATE - 01/14/2022	REVISED -

SCALE: 1"=50'

SHEET 1

EROSION CONTR	F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.		
PETERSON ROAD CULVERT				2021-066-CR			LAKE	15	8
LILIIOUN NUAD	COLVEILI					CONTRACT	NO. 62F	204	
OF 1 SHEETS	STA. 35+00	TO STA. 45+00	ILLINOIS FED. AID PROJECT						

Existing Structure: SN 049-0532 is an 8' x 5' single -cell reinforced concrete culvert constructed in 1967. The culvert length is approximately 103'. The existing reinforced concrete wingwalls at each quadrant of the structure have either failed/fallen into the channel or exhibit significant lateral movement.

#### General Notes

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. 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 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 based at the unit price bid for the work.

#### DESIGN SPECIFICATIONS

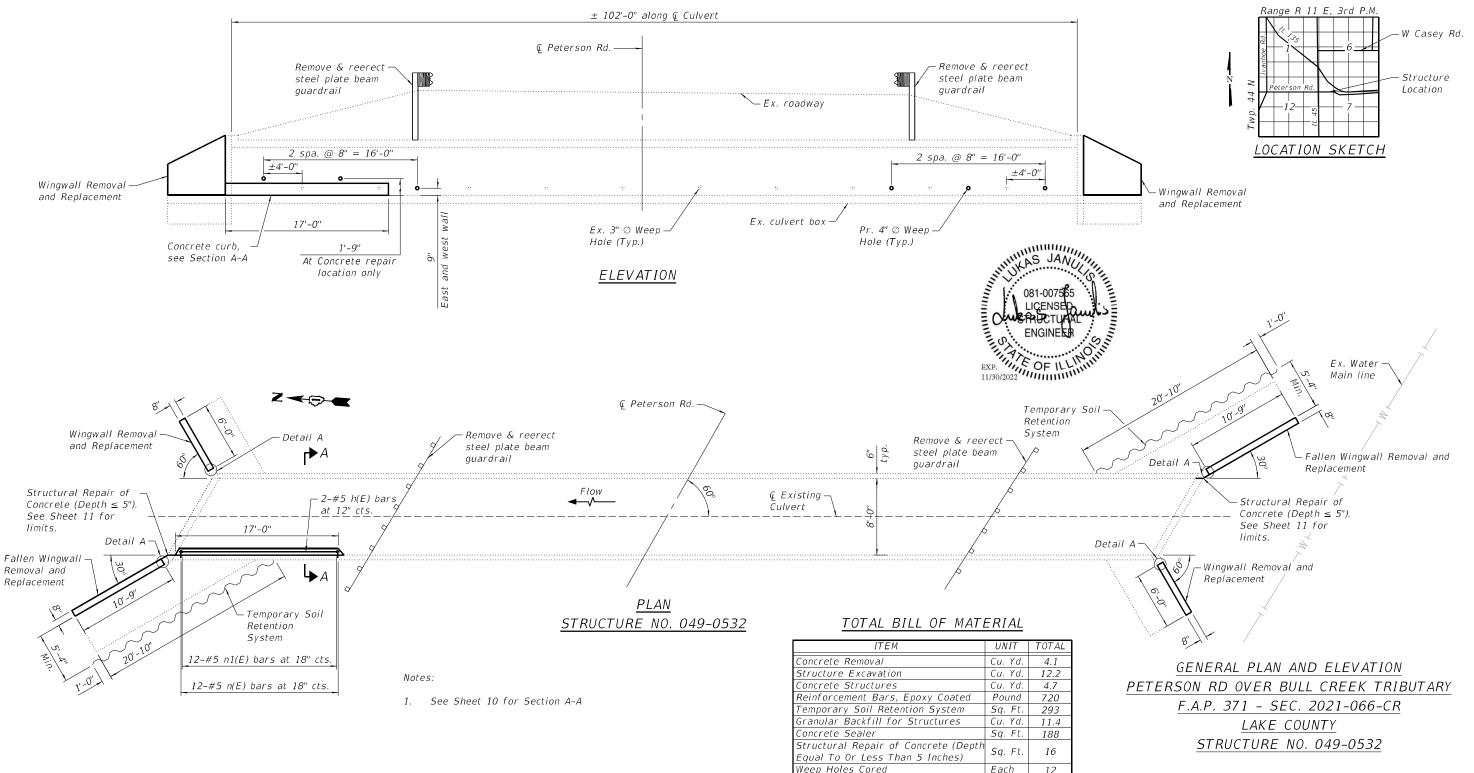
2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

#### DESIGN STRESSES

f'c = 3,500 psi (Concrete) fy = 60,000 psi (Reinforcement)

#### SCOPE OF WORK

- Remove existing damaged and/or fallen wingwalls.
- 2. Install TSRS & perform excavation.
- 3. Construct new wingwalls & perform culvert concrete repairs.
- Add concrete sealer to the new concrete surfaces.
- 5. Backfill w/Granular Backfill for Structures.



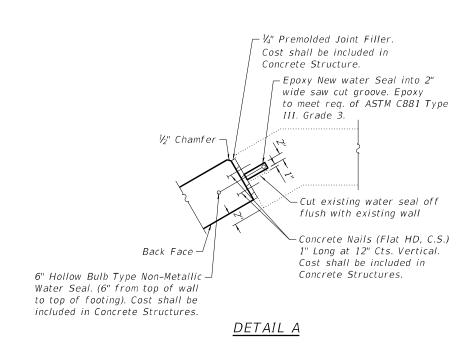
ORION ENGINEERS

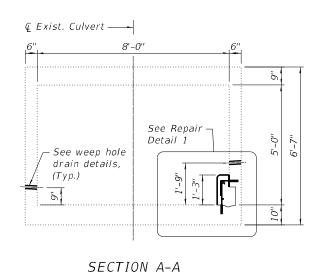
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

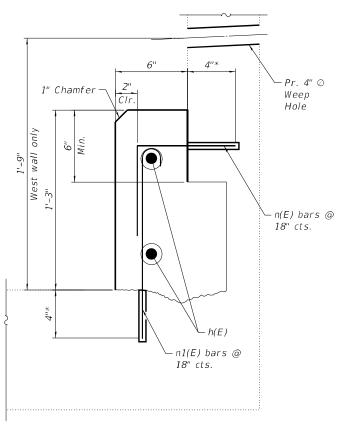
S.N. 049–0532

GENERAL PLAN AND ELEVATION

SHEET S1 OF S5 SHEETS

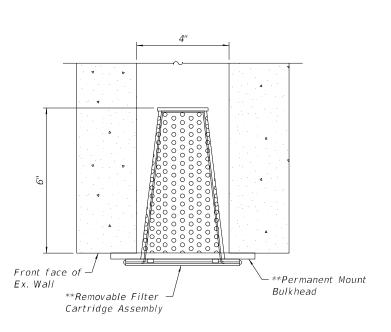


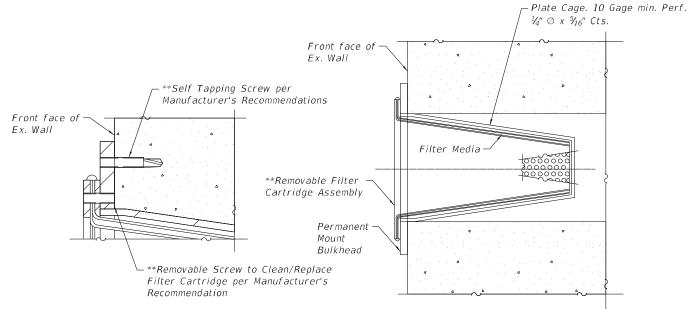




#### REPAIR DETAIL 1

\*Epoxy Grout #5 n(E) and n1(E) bars in ½" ⊘ drilled holes. See Art. 584 Std. Specs. Cost shall be included with Reinforcement Bars, Epoxy Coated





<u>CORED WEEP HOLE</u> ASSEMBLY PLAN VIEW CORED WEEP HOLE ASSEMBLY
MOUNTING DETAIL

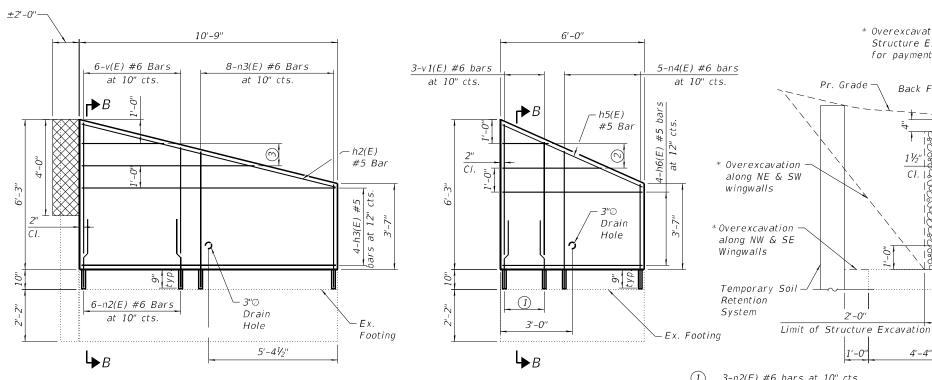
<u>SECTION THRU CORED</u> <u>WEEP HOLE ASSEMBLY</u>

\*\*Cost included with "Weep Holes Cored"



USER NAME =	BBUTTERFIELD	DESIGNED	-	BB	REVISED	-
		DRAWN	-	NP	REVISED	-
PLOT SCALE =		CHECKED	-	LJ	REVISED	-
PLOT DATE =	6/20/2022 10:46:20 AM	DATE	-	11/12/2021	REVISED	-

S.N. 049–0532 CULVERT REPAIR DETAILS I		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2021-066-CR	LAKE	15	10
COLVENT NEI AIN DETAILS I	CONTRACT NO. 62P04				
SHEET S2 OF S5 SHEETS	ILLINOIS FED. AID PROJECT				



1) 3-n2(E) #6 bars at 10" cts.

2-h4(E) #5 bars at 12" cts.

NORTHEAST WINGWALL

Southwest Wingwall Similar

3 2-h1(E) #5 bars at 12" cts.

SECTION B-B

\* Overexcavation beyond the limits of

for payment

Back Face —

Pr. Grade →

Structure Excavation not measured

— Granular Backfill

for Structures

-h2(E) or h5(E)

v(E) or v1(E)

· n2(E), n3(E) ₹

or n4(E)

#### BILL OF MATERIAL

Bar	No.	Size	Longth	Shape
			Length	Зпаре
h(E)	2	#5	16'-8"	
h1(E)	2 2	#5	10'-2"	
h2(E)	2	#5	10'-9"	
h3(E)	8	#5	10'-5"	
h4(E)	2	#5	5'-9"	
h5(E)	2	#5	6'-3"	
h6(E)	8	#5	5'-8"	
n(E)	12	#5	1'-3"	
n1(E)	12	#5	1'-11"	
n2(E)	18 #6		3'-9"	
n3(E)	8	#6	9'-9"	
n4(E)	5	#6	9'-10"	
<i>v(E)</i>	6	#6	10'-7"	
v1(E)	3	#6	10'-11"	
Concre	te Rem	oval	Cu. Yd.	4.1
Structu	ire Exc	avation		12.2
Concre	te Stru	ctures	Cu. Yd.	4.7
	rcemen Coated		Pound	720
	ar Back ructure		Cu. Yd.	11.4
	te Seal		Sq. Ft.	188
Structu	ıral Re	pair of	,	
	te (Dep	'	C = 5'	1.0
	To Or L		Sq. Ft.	16
Than 5	Inches	5)		
	rary So		C = 51	202
Retent	ion <sup>'</sup> Sys	tem	Sq. Ft.	293

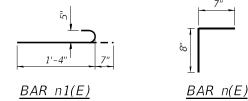
#### NORTHWEST WINGWALL

Southeast Wingwall Similar

v1(E)	v(E)	n4(E)	n3(E)	h4(E)	h1(E)		h1(E)	h4(E)	n3(E)	n4(E)	v(E)	v1(E)
5'-0"	4'-8"	4'-2"	4'-2"	"6-'I	3'-2"							
5'-11"	5'-11"	5'-8"	5'-7"	4'-0"	7'-0"		1,-0.,	4'-0"	5'-7"	5'-8"	5'-11"	5'-11"
							3'-2"	1'-9"	4'-2"	4'-2"	4'-8"	5'-0"

#### BAR CUTTING DIAGRAM

Order bars full length. use remainder of bars in the opposite wingwall



#### MINIMUM BAR LAP

 $\#6 \; Bar = 2'-9''$ 

#### *LEGEND*

Structural Repair of Concrete (Depth Equal to or less than 5 Inches)

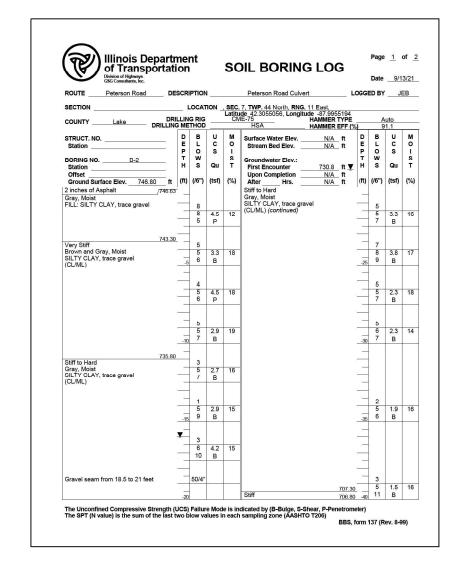
#### Notes:

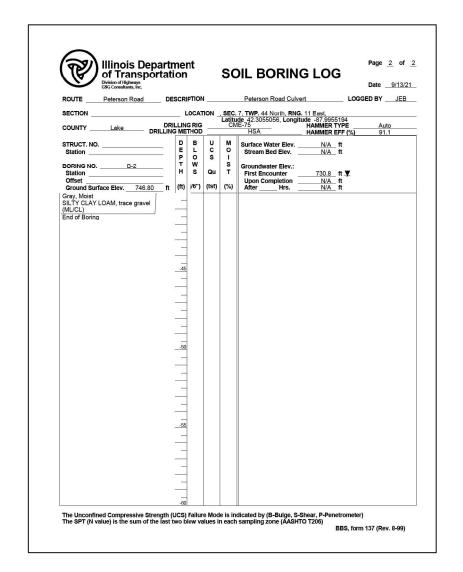
- 1. Drill and Epoxy Grout 9" minimum into existing concrete base according to article 584 of the standard specification.
  Concrete Sealer shall be applied to exposed
- face of Wingwalls.



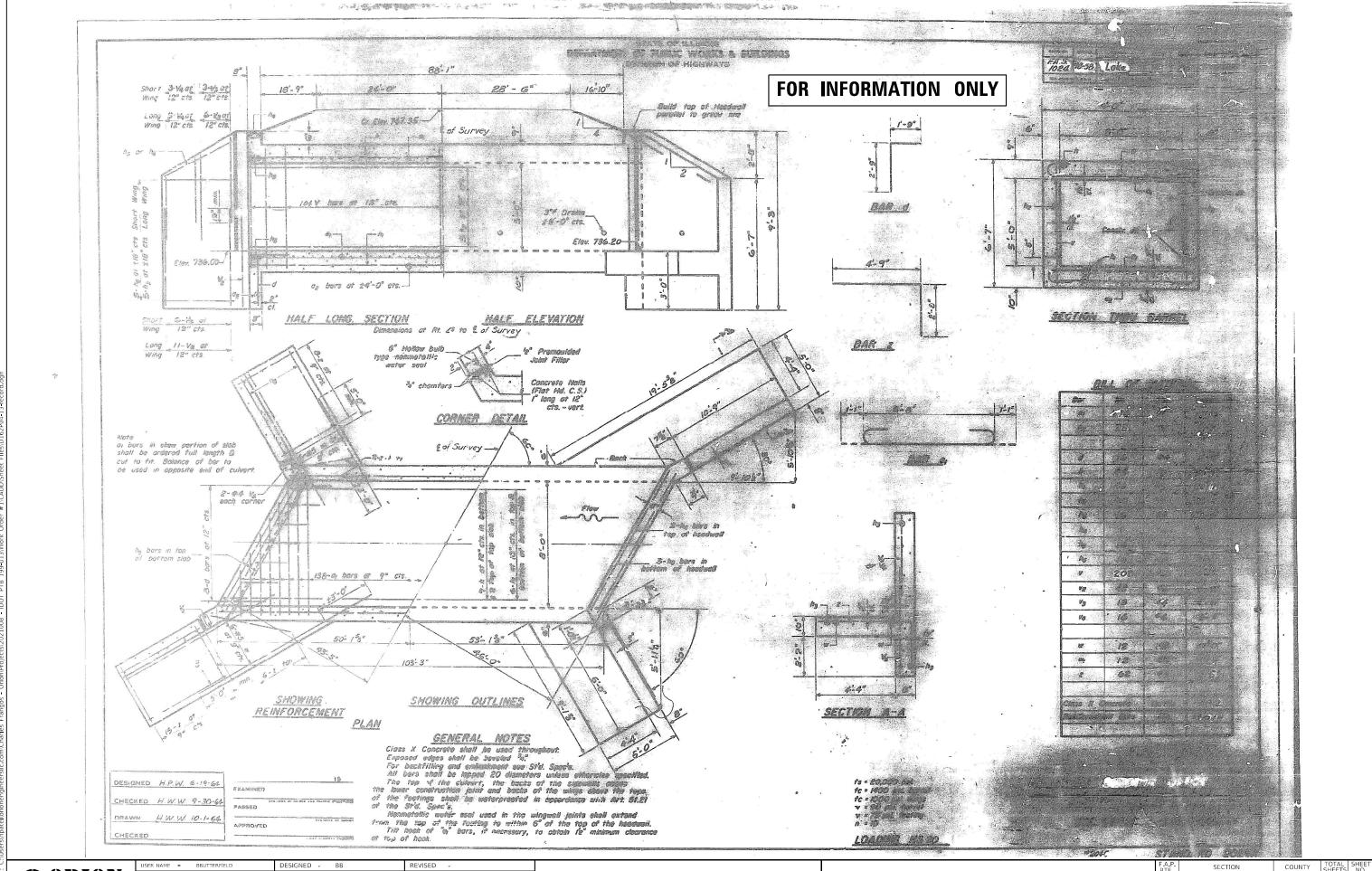
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PLOT DATE = 6/20/2022 10:46:22 AM	DATE - 11/12/2021	REVISED -

6/20/2022 10:46:22 AM





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			DRAWN	-	NP	REVISED -	
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ORION

 USER NAME
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 BBUTTERFIELD
 DESIGNED
 BB
 REVISED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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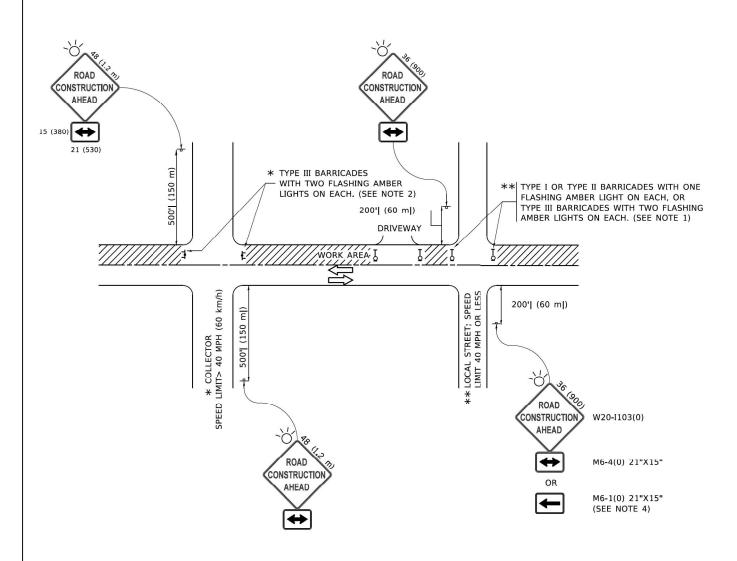
 371
 2021

RTE. SECTION COUNT SHEETS NO.

371 2021-066-CR LAKE 15 13

CONTRACT NO. 62P04

| ILLINOIS | FEO. 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.
- 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.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
  b) 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)
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
  4. 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
- 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.



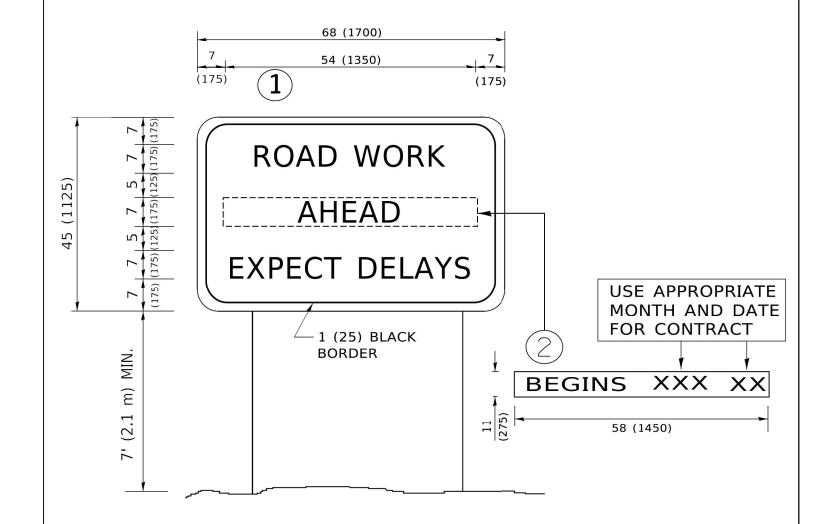
USER NAME = BBUTTERFIELD	DESIGNED - BB	REVISED -
	DRAWN - NP	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - LJ	REVISED -
PLOT DATE = 6/3/2022 2:17:18 PM	DATE - 11/12/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)								
	SHEET	OF	SHEETS					

F.A.P. RTE	SEC <sup>-</sup>	SECTION			TOTAL SHEETS	SHE
371	2021-066-CR			LAKE	15	1
TC-10				CONTRAC	T NO. 6	2PC
		ILLINOIS	FED. A	ID PROJECT		

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### 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.



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1	USER NAME =	BBUTTERFIELD	DESIGNED	-	BB	REVISED	-

TEMPORARY INFORMATION SIGNING (TC-22)		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2021-066-CR	LAKE	15	15
		TC-22	CONTRAC	T NO. 6	52P04
SHEET OF SHEETS		TILIMOIS FED	ID PROJECT		

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