#### 06-11-2021 **LETING ITEM 182**

#### INDEX OF SHEETS

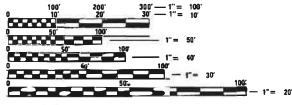
- COVER SHEET
- SUMMARY OF QUANTITIES
- GENERAL NOTES
- GENERAL PLAN AND ELEVATION
- GENERAL DATA
- CAST IN PLACE EXTENSION DETAILS
- CAST IN PLACE EXTENSION DETAILS
- 8-12 SOIL BORINGS

#### HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 001001-02 AREAS OF REINFORCEMENT BARS

001006

DECIMAL OF AN INCH AND OF A FOOT



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.

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

PROJECT ENGINEER: HERVE GELIN SQUAD LEADER: PHILLIP SAWYER

618-346-3175 618-346-3275

CONTRACT NO. 76M36

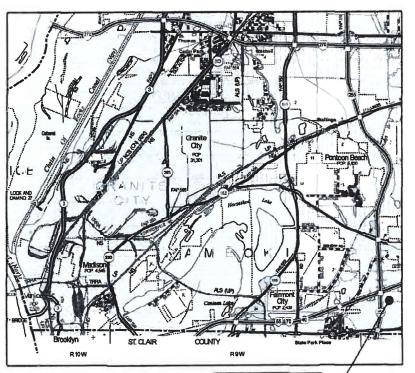
## STATE OF ILLINOIS

# DEPARTMENT OF TRANSPORTATION

# **PROPOSED** HIGHWAY PLANS

FAI 255 (I-255) SECTION 60-8PS-2 DISCHARGE BOX CULVERT REPLACEMENT **MADISON COUNTY** 

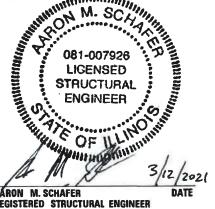
C-98-094-21



**COLLINSVILLE #2** PUMP STATION

MADISON\_COUNTY

NET LENGTH = N/A



AÁRON M. SCHAFER REGISTERED STRUCTURAL ENGINEER STATE OF ILLINOIS NO. 081-007926

COUNTY SHEETS NO. 255 | 60-8PS-2 ILLINOIS CONTRACT NO. 76M36

D-98-064-21



## KLINGNEA & ASSOCIATES, P.C.

Engineers · Architects · Surveyors | 616 North 24th Street, Outroy, IL | Ph (217)223-3670 - Fax (217)222-3670 | Fax (217)223-3670 - Fax (217)223-3670 - Fax (217)223-3670 | Fax (217)223-3670 - Fax (217)223-3670 | Fax (217)

Internet Address: STATE OF ILLINOIS DESIGN FIRM # 1842738

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
SUBMITTED March 1802/
May 7, 2021
May 7, 2021
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- 3. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIAL PROVISIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- 4. DRAWINGS ARE NOT TO SCALE.
- 5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES, GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

18\Work Order 09 - Phase II Pump Station Blanket Agreement\Collinsville Box Culvert Extension\CADD Sheets\D876M3G-s

REV. - MS

Engineers · Architects · Surveyors state of LINGS FFM to, 1842738

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

	CENEDAL	NOTEC		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	GENERAL	NOTES		255	60-8PS-2	MADISON	12	2	
						CONTRACT	NO. 7	6м36	
SHEET 1	OF 1 SHEET:	STA.	TO STA.		ILLINOIS FED. AID PROJECT				

# ILLINOIS DEPARTMENT OF TRANSPORTATION

#### SUMMARY OF QUANTITIES

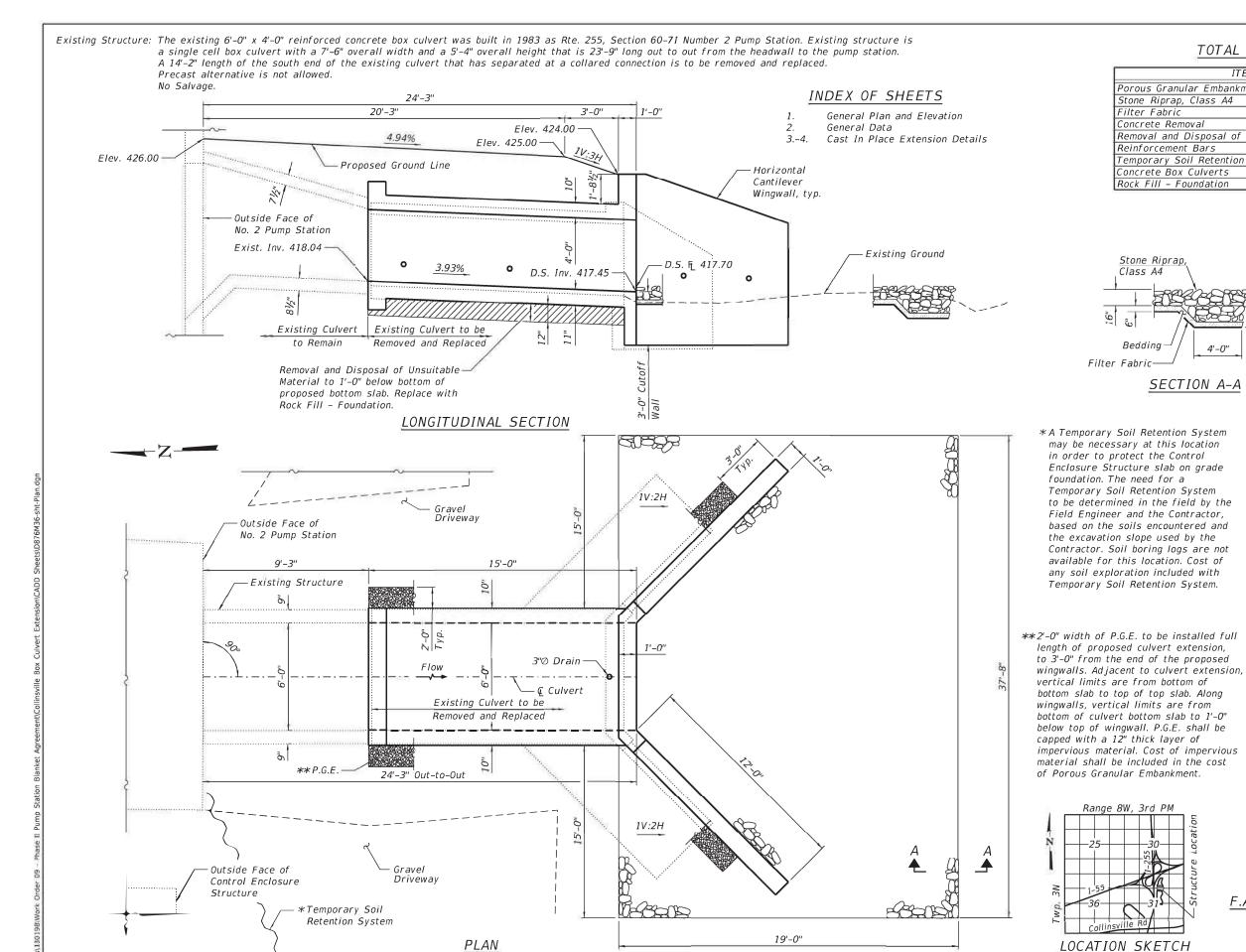
			100% STATE URBAN	CONSTRUCT	TION TYPE CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	MADISON 0044	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	46	46	
28100107	STONE RIPRAP, CLASS A4	SQ YD	80	80	
28200200	FILTER FABRIC	SQ YD	80	80	
50102400	CONCRETE REMOVAL	CU YD	14.5	14.5	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	6	6	
50800105	REINFORCEMENT BARS	POUND	4,240	4,240	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	31	31	
54003000	CONCRETE BOX CULVERTS	CU YD	19.7	19.7	
67100100	MOBILIZATION	L SUM	1	1	
Z0054517	ROCK FILL - FOUNDATION	TON	12	12	

## \* SPECIALTY ITEM

REV. - MS

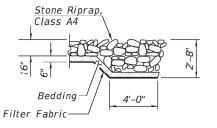
KLINGNER	
& ASSOCIATES, P.C.	
Engineers · Architects · Surveyors	Γ
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	

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#### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	46
Stone Riprap, Class A4	Sq. Yd.	80
Filter Fabric	Sq. Yd.	80
Concrete Removal	Cu. Yd.	14.5
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	6
Reinforcement Bars	Pound	4,240
Temporary Soil Retention System	Sq. Ft.	31
Concrete Box Culverts	Cu. Yd.	19.7
Rock Fill – Foundation	Ton	12



APPROVED

SECTION A-A

\*A Temporary Soil Retention System may be necessary at this location in order to protect the Control Enclosure Structure slab on grade foundation. The need for a Temporary Soil Retention System to be determined in the field by the Field Engineer and the Contractor, based on the soils encountered and the excavation slope used by the Contractor. Soil boring logs are not available for this location. Cost of any soil exploration included with Temporary Soil Retention System.



Vincent P. Tabor Licensed Structural Engineer State of Illinois No. 081-007047 Expires 11/30/2022

#### DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

#### LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

#### DESIGN STRESSES

FIELD UNITS (New Construction)

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

FIELD UNITS (Exist. Construction)

f'c = 3.500 psi

fy = 60,000 psi (Reinforcement)

LOCATION SKETCH

GENERAL PLAN AND ELEVATION COLLINSVILLE NO. 2 PUMP STATION BOX CULVERT F.A.P. RTE. 310 (IL 255) SEC. 60-8PS-2 MADISON COUNTY

REV. - MS

LIN ENGINEERING,LTD. Consulting Engineers

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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

**GENERAL PLAN AND ELEVATION COLLINSVILLE NO. 2 PUMP STATION BOX CULVERT** SHEET 1 OF 4 SHEETS

SECTION COUNTY CONTRACT NO. 76M36 ILLINOIS FED. AID PROJECT

#### DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

#### CULVERT CONSTRUCTION SEQUENCE

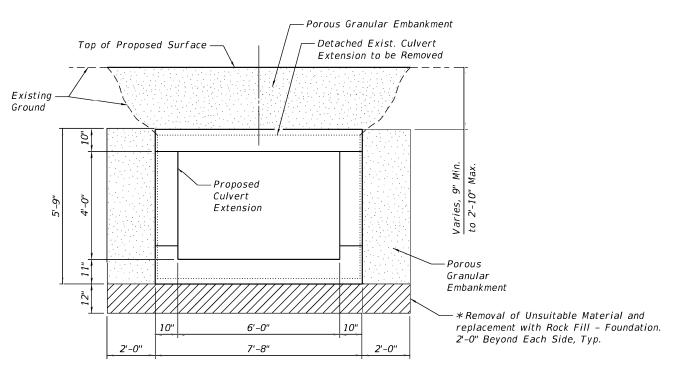
- Divert water from construction area.
- 2. Remove separated existing culvert extension and collar to the extent necessary for installation of the proposed culvert extension.
- 3. Perform construction of proposed culvert extension.
- 4. Remove water diversion measures.
- 5. Place embankment over top of culvert to match existing driveway grade.

#### GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. Elevations shown are based on a combination of survey data and the existing plans. The intention is for the proposed culvert extension to match the existing invert elevation at the interface between the existing and proposed structures. 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.

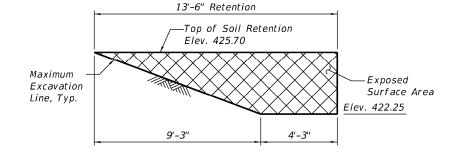
The Contractor shall use care when excavating around existing foundations. Any damage to the existing structure and/or supporting foundation shall be repaired or replaced at the Contractor's expense.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard, unless noted otherwise.



#### SECTION THROUGH BOX CULVERT

\*See GPE Sheet for anticipated length of Rock Fill - Foundation. Final limits to be determined in the field at time of construction.



#### TEMPORARY SOIL RETENTION SYSTEM

Temporary Soil Retention System dimensions and quantities have been determined assuming a 1V:1.5H excavation slope. Actual dimensions and quantities will vary if a different excavation slope is used. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

REV. - MS

LIN ENGINEERING LTD Consulting Engineers

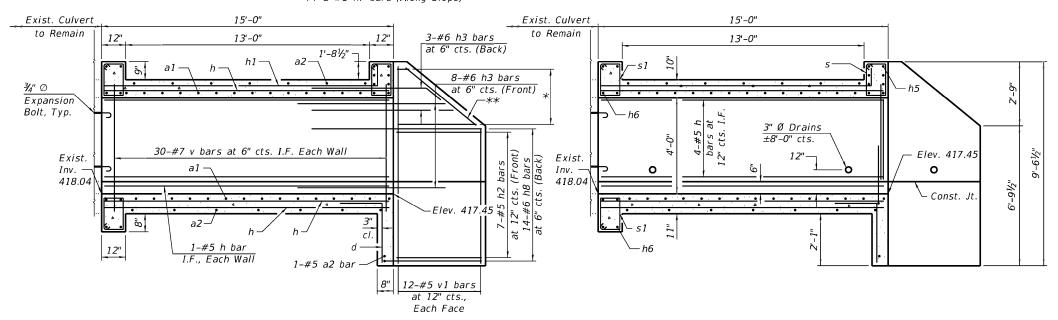
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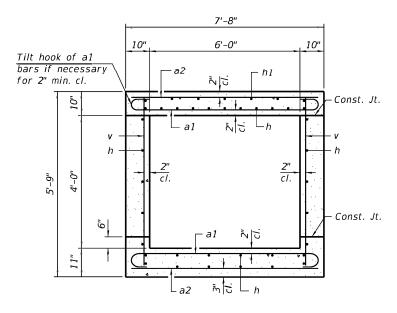
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**GENERAL DATA** COLLINSVILLE NO. 2 PUMP STATION BOX CULVERT SHEET 2 OF 4 SHEETS

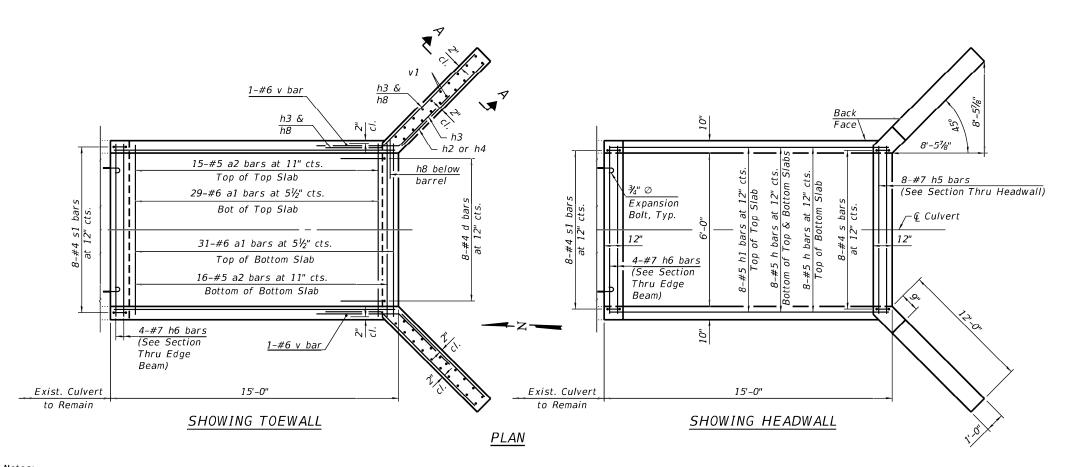
SECTION COUNTY 310 60-8PS-2 Madison 12 5 CONTRACT NO. 76M36

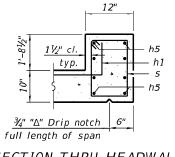


LONGITUDINAL SECTION

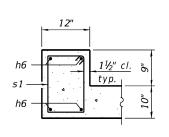


#### SECTION THRU BARREL



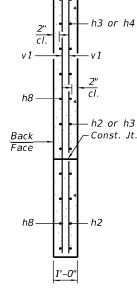


## SECTION THRU HEADWALL



# SECTION THRU EDGE BEAM

(Top Edge Beam Shown, Bottom Edge Beam Similar)



SECTION A-A

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

See Sheet 4 for Field Cutting Diagrams, bar bend details, Expansion Bolt Location detail, and Bill of Material.

Any gaps, spalls, holes, or exposed reinforcement bars within 1'-0" of the end of the existing culvert to remain that is nearest the interface with the proposed culvert extension shall be cleaned and filled with Class SI concrete. Paid for as Concrete Box Culverts.

REV. - MS

E	LIN ENGINEERING,LTD.  Consulting Engineers  Springfeld, Illinois	-
	Springfield, Illinois	ŀ

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
310	60-8PS-2	Madison	12	6
		CONTRACT	NO. 76	M36
	ILLINOIS FED. A	D PROJECT		

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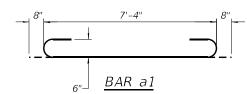
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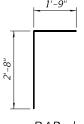
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Sidewalls: 3 @ 15" cts. Top & Bottom Slab: 6 @ 12" cts. EXPANSION BOLT LOCATION FOR

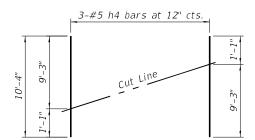
<u>CAST-IN-PLACE EXTENSION</u>

¾" ⊘ hooked Expansion Bolts in accordance with Section 1006.09 of the Standard Specifications, spaced as shown. Hooked bolts shall extend a minimum of 9" into new concrete. Cost included with Concrete Box Culverts.



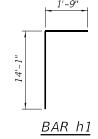


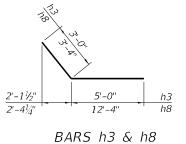
BAR d



## FIELD CUTTING DIAGRAM

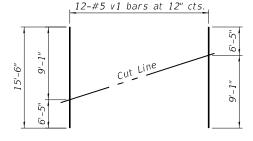
Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.





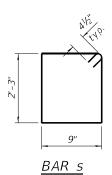
### BILL OF MATERIAL

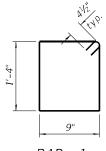
Bar	No.	Size	Length	Shape
a1	60	#6	8'-8"	ر ا
a2	32	#5	7'-4"	
d	8	#4	4'-5"	
h	34	#5	14'-8"	
h1	8	#5	15'-10"	
h2	14	#5	11'-8"	
h3	22	#6	8'-0"	
h4	3	#5	10'-4"	
h5	8	#7	6'-8"	
h6	8	#7	7'-4"	
h7	4	#5	11'-5"	
h8	28	#6	15'-8"	_
S	8	#4	6'-9"	
s 1	16	#4	4'-11"	
V	62	#7	5'-4"	
v 1	24	#5	15'-6"	
Concre	te Box	Culverts	Cu. Yd.	19.7
Reinfo	rcemen	t Bars	Pound	4,260



#### FIELD CUTTING DIAGRAM

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





BAR s1

LIN ENGINEERING,LTD. Consulting Engineers

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

CAST IN PLACE EXTENSION DETAILS COLLINSVILLE NO. 2 PUMP STATION BOX CULVERT SHEET 4 OF 4 SHEETS

COUNTY TOTAL SHEETS NO.

MADISON 12 7 SECTION 310 60-8PS-2 CONTRACT NO. 76M36

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PROJECT	BRID	GE _		FAI	255	Date	4-26-	-83		
ROUTEFAI 2	255		Pum	p Sta	ation #2	Bored By	J. Ki	ng		
SEC60-71	STA.	_12	86+19	.47,	Sta. 925+00	Checked By _	R. Ne	bel:	sick	
COUNTY Madis	son				Surface Water El.		-			Г
Boring No Station Offset	1 - S.P. 1280+89 502' Rt. E	Zievau0	Qu t/s.f.	w (%)	Groundwater El. at Completion After Hours		Elevation	z	Qu t/s.f.	(%) M
Ground Surface	417.0	0			GRAY SILTY CLAY	L.L. 36.	19			
		$\exists$			3	WET, MEDI		3	0.5	3/4
	-				392.5±		25		0.5	34
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		-5			RED CLAY	WET, STIF	F	6	1.3	41
	DAMP, STIFF	=	5 1.0	0 42					S	-
		Ŧ		1	1	WET, STIF	F	6	1.3	47
408.0 F.W.	L.L. 83.1%	=	S 0.	100	-	L.L. 86.	1% -30			
	DAMP, MEDIUM		0.	9 40	385.0±	WET, STIF	F	3	1.2	54
		10	4 0°.	- 00	GRAY SILTY					
BROWN AND	WET, MEDIUM	+	4 0.	7 38	382.5±	WET, SOFT		5	0.4	39
GRAY SILTY CLAY		-	D	-			-35			
	WET, MEDIUM	=	3 0.8	35	DROWN AND	WET VERY LOO	SE	1	-	NS
	L.L. 30.3%	15			TO MEDIUM					
	WET, MEDIUM	-	2 0.e	32	GRAINED SAND	WET, MEDI	UM —	18	NC	-
		1					-40			
	WET, SOFT	- 1	, B	4 30	(SOME GRAVEL)	WET, MEDI		11	NC	-
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FAI 255 Section 60-7I							DATE 4- BORED BY			
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		45								-
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Associates, P.C.
Engineers - Architects - Surveyors
618 N241 HST. OUNCY, LUNOS 62301 217.223.3670
STATE OF ILLNOS DESIGN FIRM NO, 184-2738

PLOT DATE = 3/12/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET I OF 5 SHEETS STA. TO STA.

Illinois Department of Transportation	r St	abil	ity	and Settlement Analysis	Bridge F Boring L	.og	
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PROJECTBRIDGE	_	FAI	. 2/(	Date	4-27-03		
ROUTEFAI 270	Pu	imp S	tati	lon #2 Bored By	J. King		
SEC. 60-71 STA.	1280	+19.	47,	Sta. 925+00 Checked By	R. Nebels	sick	
COUNTY Madison				Surface Water El.			
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GRAY SILTY —				GRAY SILTY	_		
(Rec. 2.07)		-		392.3 CLAY Sample	-25		
BROWN AND GRAY SILTY				RED CLAY	.2.2)		
412.3 CLAY Sample 2 -							
BROWN AND (Rec.1.5)				389.8 Sample (Rec.			
GRAY SILTY				RED CLAY			
409.8 CLAY Sample 3				387.3 Sample	12		
BROWN AND (Rec.2.4)				(Rec.	-30		
GRAY SILTY				GRAY SANDY			
(P 2-10				384.8 CLAY Sample	13—		
F.W. BROWN AND (Rec.2.4) GRAY SILTY		×					
404.8 <u>CLAY</u> Sample 5		PLE					
BROWN AND (Rec.2.4)		SAMPLER		END OF BORING	-35		
GRAY SILTY —							
402.3 CLAY Sample 6.45		PISTON			_		
BROWN AND		Ь					
GRAY SILTY							
399.8 <u>CLAY</u> Sample 7				39			
BROWN AND (Rec.2.4)					-40		
GRAY SILTY  397.3 CLAY Sample 8							
(Rec. 2 3)							
BROWN AND GRAY SILTY				75 V V V V V V V V V V V V V V V V V V V			
394.8 CLAY Sample 9							
		1	1		-45		

Illinois Departmen of Transportation	l				Bridg Borin			datior
For	Stab	ility	and	Settlement Analysis		Sh.	.1 o	f 1 Sh
PROJECTBRIDO	GE	F	AI 2	55 Date	4-21	-83		
ROUTE FAI 255	I	ump	Stat	ion #1 Bored By	J. K	ing		
				amp 8 Checked By _				
COUNTY Madison				Surface Water El.				$\overline{}$
COONIT		4:	-	Groundwater El. at	tion		S.f.	(%)
Boring No. 1 - ST Station 110+95	z	Qu t/s.f.	(%) M	Completion	Elevation	z	Qu t/s.f.	8
Offset 72 KC. E	-	0		After Hours	- "		0	
Ground Surface 420.8 (Rec. 2.3)	0			399.5 (Rec.2	551 =			
				GRAY SILT				
418.5 Sample 1	-	-		396.0 Sample	10 25			
BROWN AND (Rec.2.4) GRAY SILTY				GRAY SILT (Rec.2	2.5)			
416.0 CLAY Sample 2	5							
415.3 F.W. (Rec.2.4)	Ĭ			393.5 Sample	11-			
BROWN AND GRAY SILTY	7			GRAY SANDY SILT	_			
413.5 CLAI Sample 3— (Rec.2.0)	=			391.0 Sample	12 30			
BROWN AND GRAY SILTY CLAY					-		- 1	
411.0 Sample 4	0			END OF BORING				
(Rec.2.0) BROWN AND GRAY		M M			_=			
408.5 SILTY CLAY Sample 5		SAMPLER		Proposed Fill Height = 12	, _			
(Rec.1.9)	7	SAN		see attached design	-35			
SILTY CLAY	7	PISTON						
406.0 Sample 6 (Rec.2.4)	5	PIS			_			
BROWN AND GRAY SILTY CLAY								
403.5 Sample 7 —								
(Rec.2.5) BROWN AND GRAY					40			
SILTY CLAY — Sample 8	10				_			
(Rec.2.4)				7. 7.1	_			
BROWN AND GRAY SILTY CLAY					_			
398.5 Sample 9	Ⅎ	1			-45			
N-Standard Penetration Test-	u-Und			ompressive Type failure: B - Bulge Failur	- 2		ı	1 1

LINGSIER USER NAME = ams

Associates, P.C.
Engineers - Architects - Surveyors
618 N241 HST. OUNCY, LUNOS 62301 217.223.3670
STATE OF ILLNOS DESIGN FIRM NO, 184-2738

PLOT DATE = 3/12/2021

DESIGNED REVISED DRAWN REVISED CHECKED REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SOIL BORINGS COLLINSVILLE NO. 2 PUMP STATION BOX CULVERT SCALE: NONE SHEET 2 OF 5 SHEETS STA.

COUNTY TOTAL SHEET NO. MADISON 12 9 F.A.I. RTE. 255 SECTION 60-8PS-2 CONTRACT NO. 76M36

of Trans	Department sportation						Bridg Borir	ig L	oun	aa
PROJECT	BRIDGE			FAI :	255 D	ate	4-21		.1 0	f
ROUTEFAI					tation Be					
	ISTA					7.				
COUNTYMadis	son				Surface Water El.					
Boring No Station	110+75 6	z	Qu t/s.f.	(%) M	Groundwater El. at Completion		Elevation	z	Qu t/s.f.	100
Offset Ground Surface	82' Rt. W	1	_		After Hours					H
		-			396.5±	WET, MEDIU		2	0.7	5
	4						-	-	0.7	-
	DAMP, SOFT	2	0,3	35		No.	25			-
	L.L.=39.8% -5				GRAY SILT	WET, MEDIL	M	6	-	32
414.0 F.W.		5	B 0.8	31						L
=						WET, MEDIL	M	3	-	30
	WET, MEDIUM	4	B 0.5	31			-30			L
		7	0.5	31	389.0±	WET, MEDIU	M	3	-	35
	L.L.=45.2%-10	4	1.4	31			_			L
BROWN AND GRAY SILTY	WET, STIFF	7	2.4	31		WET, MEDIL	M _	12	NC	-
CLAY	LIET COLUMN	,	S 1.2				-35			L
	WET, STIFF	4	1.2	45	GRAY FINE	WET, MEDIU	M	26	NC	-
	15	-	S	-	GRAINED SAND					
	WET, STIFF	4	1.0	44		WET, MEDIU	M	15	NS	-
	L.L.=81.5%		R	_			-40			
	WET, STIFF	4	1.0	49		WET, MEDIU	м	17	NS	-
	-20		0		5	10.0	_			
	WET, MEDIUM	3	S 0.8	44	376.5±	WET, MEDIU	м —	23	NC	-
	_		-				-45			

FAI 255 Section 60-71						DAT BOR	E 4-21 ED BY	L-83	2 of ing	2
Madison County Boring No. 1 Station 110+75 Offset 82' Rt.	£	Elevation	z	Qu t/s.f.	(%) w		Elevation	z	Qu t/s.f.	
		45			П					İ
	WET, ME	DIUM	13	NC	-		_			١
		_	1							
	WET, ME	MITU	25	NC			_			l
			-	110	П		-75			١
		50			Н		_			١
	WET, ME	DIUM	18	NC	-					١
		-								
	WET, DE	NSE _	30	NC			-			
		_			П		-80			
BROWN AND GRAY MEDIUM	-	55			Н		-			
TO COARSE GRAINED	WET, ME	DIUM	20	NC	-		_			
SAND							_			
(SOME GRAVEL)	WET, MEI	DIUM _	29	NC	_		_			
							-85			
		60			Н		_			
	WET, MEI	MUIC	26	NC	H		_			
					Ц		=			
	WET, DEN	ISE	37	NC	L					
							-90			
354.4	LIPT DPM	<u>-65</u>			Н		_			
	WET, DEN		38	NC	Ħ					
END OF BORING		=					_			
DIN OF BOKING			1				-95			
		-70					-33			
		70					-			

LINCENER USER NAME = oms

& ASSOCIATES, P.C.

Engineers · Architects · Surveyors

SIGNATHS COUNCY, LINCOR 52901 217.23.3870

STATE OF ILLNOIS DESIGN FIRM NO, 184-2738

PLOT DATE = 3/12/2021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION COUNTY TOTAL SHEET NO.

60-8PS-2 MADISON 12 10

CONTRACT NO. 76M36

| ILLINOIS | FED. AID | PROJECT

of Tran	Departme sportation	ח						Borin			da
ROJECT 1-255-	7(165)7 BR	IDGE	FA	I Rot	ute 2	255 #36181 <b>D</b> a	ate	1-26		. 1 c	of
OUTEFAI	255			Воз	k Cu	lvert Bo	ored By	J. K	ing		_
EC60-7	STST	A		U.5	S. Ro	oute 40Ch	necked By	R. N	ebe1	sick	1
Boring No Station Offset	1 343+34 50' Lt.£	Elevation	z	Qu t/s.f.	(%) M	Surface Water El. Groundwater El. at Completion After Hours		Elevation	z	Qu t/s.f.	
Ground Surface	421.6	0									
BROWN AND GRAY SILT						BROWN AND GRAY SILT	WET, MEDIUM		2	S 0.5	
417.1±	DAMP, MEDIU	M -	9	S 0.6	22		WET, SOFT	25		S 0.3	
	DAMP, MEDIL	M	4	B 0.6	29		WET, SOFT		2	S 0.3	-
412.6 G.W.	DAMP VERY STIFF	-	10	B 2.0	29	390.1±	WET, MEDIUM	30	6	S 0.6	
BROWN AND	WET, MEDIUM	-10	6	0.5	29	BROWN AND GRAY SANDY SILT 387.6±	WET VERY SOFT		1	NC	100
CLAY	WET,STIFF		5	S 1.0	48		WET, MEDIUM	-35	25	NC	
	WET,STIFF-	-15	5	S 1.1	49						
102 64	HET MEDITING		2	S			WET, DENSE	-40	36	NC	
402.6±	WET, MEDIUM	-20	3	0.7 S	46		WET, MEDIUM		25	NC	-
	WET, MEDIUM		6	0.5	38		WET, MEDIUM	-45	15	NC	-

GRAVEL   45	WET, MEDIUM 15 NC -  (GRAVEL)  BROWN AND GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 22 NC -  -80  -80  -80  -80	WET, MEDIUM   15 NC   -	WET, MEDIUM 15 NC -  (GRAVEL) -  BROWN AND GRAY FINE GRAINED SAND 370.4 WET, MEDIUM 20 NC -  END OF BORING  WET, MEDIUM 20 NC -  -555  -855  -855  -955  -955	WET, MEDIUM   15 NC	FAI 255 Section 60-7I County Madison Boring No. 1 Station 343+34	1 3	z	Qu t/s.f	(%) M	DATE 1-26-84 BORED BY J.King	Elevation	z	Qu t/s.f.	(%)
WET, MEDIUM   15 NC   -	WET, MEDIUM   15 NC -	WET, MEDIUM   15 NC   -	WET, MEDIUM 15 NC -  (GRAVEL) -	WET, MEDIUM 15 NC -  (GRAVEL)		(GRAVEL) -45					-75			
BROWN AND GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 22 NC -  (GRAVEL) -50  WET, MEDIUM 20 NC -  END OF BORING  -55  -85  -85	GRAVEL   WET, MEDIUM   22 NC   - RECT   RE	BROWN AND GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 22 NC -  (GRAVEL) -500  WET, MEDIUM 20 NC -  END OF BORING  -555  -856  -900  -9	-100	-100		-		NC	-		크			
BROWN AND GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 22 NC	BROWN AND GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 20 NC -  END OF BORING  WET, MEDIUM 20 NC -  -55  -85  -85	BROWN AND GRAY FINE GRAINED SAND 370.4 WET, MEDIUM 22 NC	-100	-100		(GRAVEL)					-			
GRAY FINE GRAINED SAND 370.4 WET, MEDIUM 20 NC -  END OF BORING  -55 -55 -85 -85 -85 -85	GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 20 NC -  END OF BORING  -55  -85  -85  -85	GRAY FINE GRAINED SAND 370.4  WET, MEDIUM 20 NC -  END OF BORING  -55  -85  -85  -95	-100	-100		WET, MEDIUM -	22	NC	-		$\exists$			
370.4 WET, MEDIUM 20 NC - END OF BORING	370.4 WET, MEDIUM 20 NC - END OF BORING -55 -85 -85	370.4 WET, MEDIUM 20 NC	-100	-100							-80			
END OF BORING	END OF BORING -55 -85 -85 -80 -90 -90 -90	END OF BORING  -55 -85 -85 -80 -90 -95		-100	370.4	WET, MEDIUM	20	NC	-				: A	
-60 -30			-100	-100	END OF BORING	-55					-85			
-60 -90	-60 -90	-60 -90 -1 -1 -1 -65 -95	=     -100											
		-95	=     -100			-60					-90			
-100			=     -   -     -											
			11 11 11			76					-100			
-75 -75		-70		78		-/5					-100			

USER NAME = ems

& ASSOCIATES, P.C.

Engineers · Architects · Surveyors
6 in N2th 5 collary & Linkols 8290 121/223870
STATE OF ILLNOIS DESIGN FIRM NO, 184-2738

PLOT DATE = 3/12/2021

GW-Ground Water

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.

SECTION COUNTY TOTAL SHEET NO.

5 60-8PS-2 MADISON 12 11

CONTRACT NO. 76M36

of Tran	Departm sportatio	ent n					i	Borin		oun .og	dat
ROJECT	-7(165)7 BI	RIDGE	F	AI Ro	ute	255 #36181 Da	ite	1-2		. 1 o	of 2
OUTE FAI 2	55			Во	x Cu	ilvert Bo	red By	J. 1	King	,	
EC. 60-7I	s	TA		Ra	mp 8	Ch_Ch	necked By	R. 1	Nebe	lsic	k
Boring No Station Offset		Elevation	z	Qu t/s.f.	(%) M	Surface Water El. Groundwater El. at Completion After Hours		Elevation	z	Qu t/s.f.	(%) M
Ground Surface	421.8	0				Andnous					
BROWN AND GRAY SILT						BROWN AND GRAY SILT	WET, SOFT		6	S 0.2	
417.8±	DAMP, MEDI	UM	3	S 0.7	35	395.3±	WET, SOFT	-25	4	S 0.3	- 3
		-5		В		BROWN AND GRAY					
	DAMP, MEDI	UM =	5		36	SANDY <u>SILT</u> 392.8±	WET, SOFT		3	NC	3
412.8 G.W.	DAMP, MEDI	UM	5	B 0.8	31		WET, LOOSE	-30	9	NC	_
=		-10		В				_			
BROWN AND GRAY SILTY	WET, MEDIU	<u> </u>	6	0.9	30		WET, LOOSE		7	NC	-
CLAY	WET, STIFF		5	S 1.4	39	BROWN AND	WET, MEDIUM	-35	24	NC	-
		-15		S		GRAY FINE GRAINED SAND		_			
	WET, STIFF		5	1.1	50		WET, MEDIUM		19	NC	-
402.8±	WET, MEDIUM	1	2	0.6	45		WET, MEDIUM	-40	20	NC	_
		-20					111111111111111111111111111111111111111	_	20	110	
	WET, MEDIUM	1 -	5	0.5	39	377.8±	WET, MEDIUM	_	23	NC	-
		$\exists$						-45			

FAI 255 Section 60-7I County Madison Boring No. 2 Station 112+35	Elevation	z	Qu t/s,f	(%) M	DATE 1-26-84 BORED BY J.King	Elevation	Qu t/s.f.
BROWN AND GRAY MEDIUM TO COARSE GRAINED SAND	-45 WET, DENSE	34	NC	-		-75 	
(SOME GRAVEL)	WET, MEDIUM	28	NC	-		11   2	
370.8	-50 WET, DENSE	30	NC	-		-80	
	-55						

LINGSIER USER NAME = ams

Associates, P.C.
Engineers - Architects - Surveyors
618 N241 HST. OUNCY, LUNOS 62301 217.223.3670
STATE OF ILLNOS DESIGN FIRM NO, 184-2738

PLOT DATE = 3/12/2021

GW-Ground Water

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.