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09-22-2017 LETTING ITEM 047

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**FOR LIST OF UTILITIES
SEE SHEET NO. 3**

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLAN FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
RURAL – BRIDGE (FY-17)**

TOWNSHIP ROUTE 452 (E 2750TH ROAD)

SECTION 15-22770-00-BR

PROJECT N6T2(810)

STRUCTURE REPLACEMENT

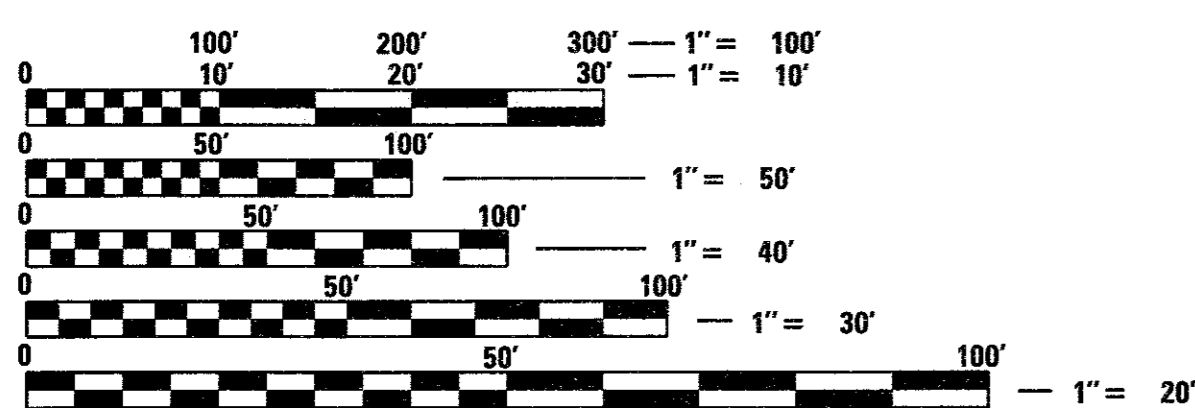
MISSION ROAD DISTRICT

LASALLE COUNTY

C-93-046-16

LOCATION MAP SCALE 0 1 2 4 MILES

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	1
WHA# 1231D15		CONTRACT NO. 87645		
ILLINOIS		FED. AID PROJECT N6T2 (810)		



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

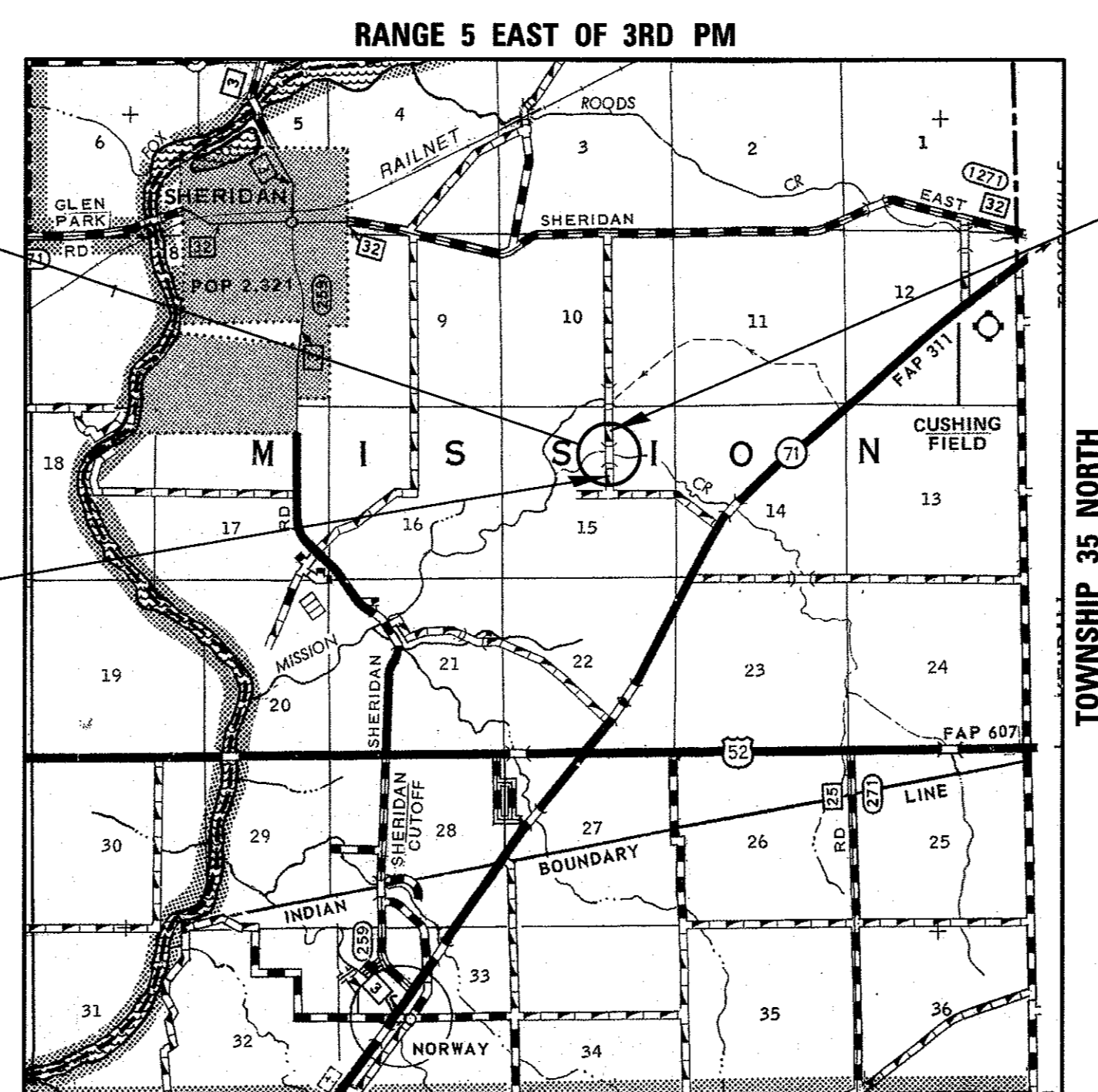
**PROJECT ENGINEER – PLP
PROJECT MANAGER – BKC**

CONTRACT NO. 87645

PROPOSED STRUCTURE: SN 050-3621
TRIPLE BARREL (10'-0" x 9'-0") REINFORCED
CONCRETE BOX CULVERT AT STA 20+00.
SKEWED 15° LT AHEAD.

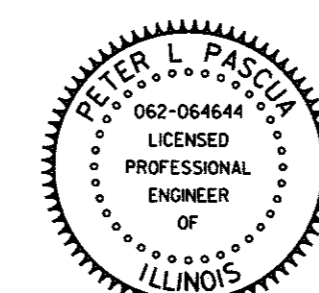
CONSTRUCTION BEGINS
STATION 18+00.00

CONSTRUCTION ENDS
STATION 21+50.00



**FUNCTIONAL CLASSIFICATION
LOCAL ROAD (NON-URBAN)
DESIGN SPEED 30 MPH
2017 ADT = 103
3R GUIDELINES**

GROSS LENGTH = 350 FT = 0.066 MILE
NET LENGTH = 350 FT = 0.066 MILE



DATE: 10-17-16
EXPIRES 11/30/17

LASALLE COUNTY HIGHWAY DEPARTMENT		
APPROVED	10-18	2016
MISSION TOWNSHIP ROAD COMMISSIONER		
APPROVED	10-18	2016
LASALLE COUNTY ENGINEER		
PASSED	11-9	2016
DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER		
RELEASING FOR BID BASED ON LIMITED REVIEW	11-9	2016
REGION 2 ENGINEER		

**WILLETT HOFMANN
& ASSOCIATES INC**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

GENERAL NOTES:

EXISTING WELLS SHALL BE SEALED IN ACCORDANCE WITH SECTION 672 OF THE STANDARD SPECIFICATIONS, AND EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION AND APPROVED BY THE ENGINEER.

ALL UTILITY POLES, GAS PIPES, ETC. IN THE WAY OF THE IMPROVEMENTS SHALL BE MOVED BY THE UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOT BE INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

THE LOCATION OF EXISTING FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN IN THE PLANS ARE NOT TO BE TAKEN AS EXACT. EXACT LOCATION OF ALL FIELD TILES AND UTILITIES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

CORN BELT ENERGY CORP. ATTN: IAN CARDOSI 1702 W. PERU PRINCETON, IL 61356 (815) 875-4480 EXT. 304	FRONTIER COMMUNICATIONS ATTN: ROGER KLINE 112 W. ELM STREET SYCAMORE, IL 60178 (815) 895-1538	AGL RESOURCES (FORMERLY NICOR) ATTN: BRUCE KOPPANG 1844 FERRY ROAD NAPERVILLE, IL 60563 (630) 388-3046
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AMEREN ILLINOIS ATTN: DEBBIE RATAJCZAK 340 RACCUGLIA DRIVE P.O. BOX 1428, MC S-35 LASALLE, IL 61301 (815) 224-6238	MEDIACOM ATTN: PATRICK MCGRAW 808 E. NORTH STREET ELBURN, IL 60119 (815) 597-5103	COMED ATTN: LUCY ANDERBERG 1910 SOUTH BRIGGS ST. JOLIET, IL 60433 (815) 724-5691
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A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS, AND RIGHT OF WAY PINS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

EXISTING TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

COMMITMENTS:

ILLINOIS DEPARTMENT OF TRANSPORTATION - SECTION 7:

ALL TREE CLEARING ACTIVITIES SHALL OCCUR OUTSIDE THE BREEDING SEASON OF THE NORTHERN LONG-EARED BAT AND INDIANA BAT WHICH EXTENDS FROM APRIL 1 TO SEPTEMBER 30.

TR 452 (E 2750TH RD) EARTHWORK TOTALS				
LOCATION	EARTH EXCAVATION (SPECIAL)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 35%	EMBANKMENT	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD
STA 18+00 - 21+50	692	450	473	23
PROJECT TOTAL	692	450	473	23

*X2020410

SCHEDULE OF QUANTITIES

TREE REMOVAL, ACRES		
STATION	ACRE	REMARKS
STA 19+50 - 19+95 (SW QUADRANT)	0.01	
STA 18+70 - 19+60 (SE QUADRANT)	0.04	
STA 20+30 - 21+45 (NW QUADRANT)	0.05	
STA 19+92 - 21+30 (NE QUADRANT)	0.05	
PROJECT TOTAL	0.15	

20100500

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
LT STA 18+00 - 21+50	20	100 LBS/ACRE
RT STA 18+00 - 21+50	19	100 LBS/ACRE
PROJECT TOTAL	39	

28000250

TEMPORARY DITCH CHECKS		
STATION	FOOT	REMARKS
LT STA 18+25	10	
LT STA 19+00	10	
LT STA 19+60	10	
LT STA 20+40	10	
LT STA 21+25	10	
RT STA 18+25	10	
RT STA 19+00	10	
RT STA 19+60	10	
RT STA 20+40	10	
RT STA 21+25	10	
PROJECT TOTAL	100	

28000305

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
LT STA 18+92 - 19+19	27	
LT STA 19+32 - 19+85	56	
LT STA 20+35 - 21+50	117	
RT STA 18+00 - 19+65	168	
RT STA 20+20 - 21+50	133	
PROJECT TOTAL	501	

28000400

INLET AND PIPE PROTECTION		
STATION	EACH	REMARKS
PEL STA 18+85	1	
PEL STA 19+25	1	
PROJECT TOTAL	2	

28000500

SCHEDULE OF QUANTITIES - CONT.

AGGREGATE SURFACE COURSE, TYPE B		
STATION	TON	REMARKS
STA 18+00 - 21+50	446	12"
PEL STA 18+85	17	8"
PEL STA 19+25	18	8"
PROJECT TOTAL	481	

*40200800

PIPE CULVERT REMOVAL		
STATION	FOOT	REMARKS
PEL STA 18+85	20	12"
PEL STA 19+25	20	12"
PEL STA 19+70	12	12"
PROJECT TOTAL	52	

50105220

PIPE CULVERTS, CLASS D, TYPE 1 12"		
STATION	FOOT	REMARKS
PEL STA 18+85	23	
PEL STA 19+25	31	
PROJECT TOTAL	54	

5420217

STONE RIPRAP, CLASS A4 (SPECIAL)		
STATION	TON	REMARKS
LT STA 20+00	64	
RT STA 20+00	63	
PROJECT TOTAL	127	

*X2810208

SEEDING, CLASS 2 SPECIAL		
STATION	SQ YD	REMARKS
LT STA 18+00 - 21+50	938	
RT STA 18+00 - 21+50	934	
PROJECT TOTAL	1872	

*XX004446

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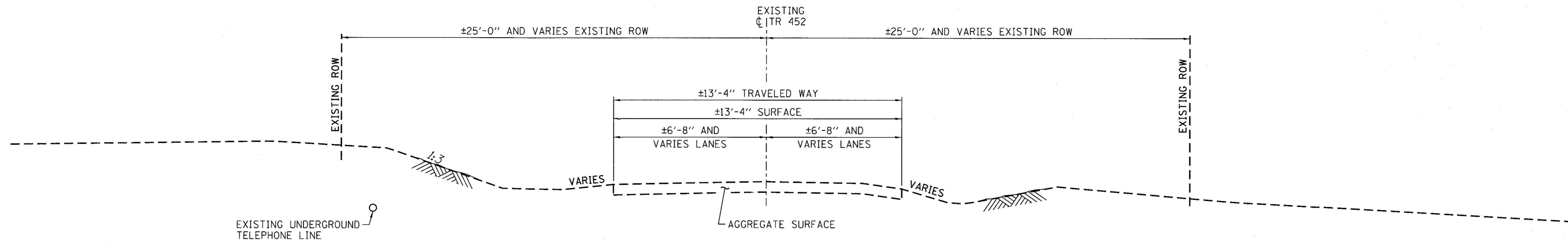


DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

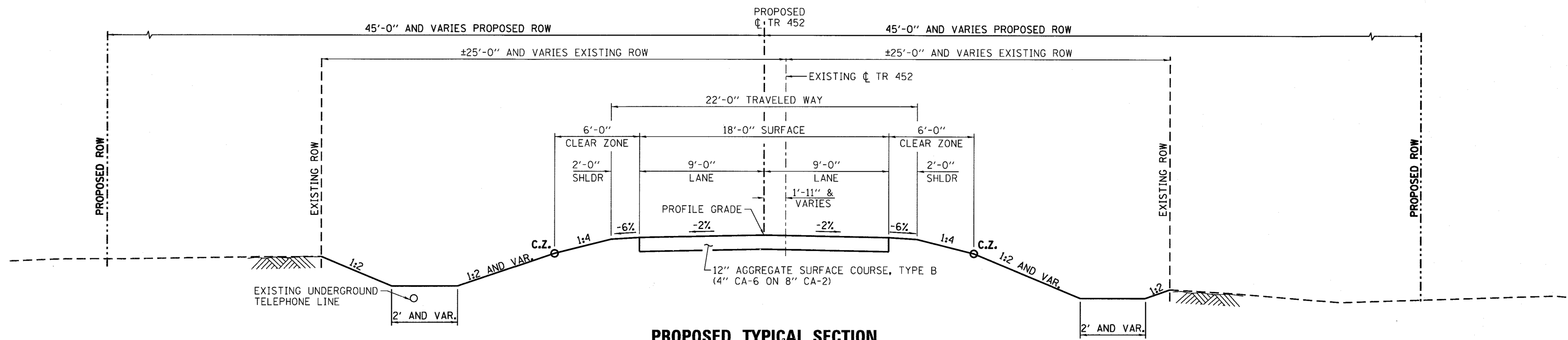
LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

GENERAL NOTES AND SCHEDULE OF QUANTITIES

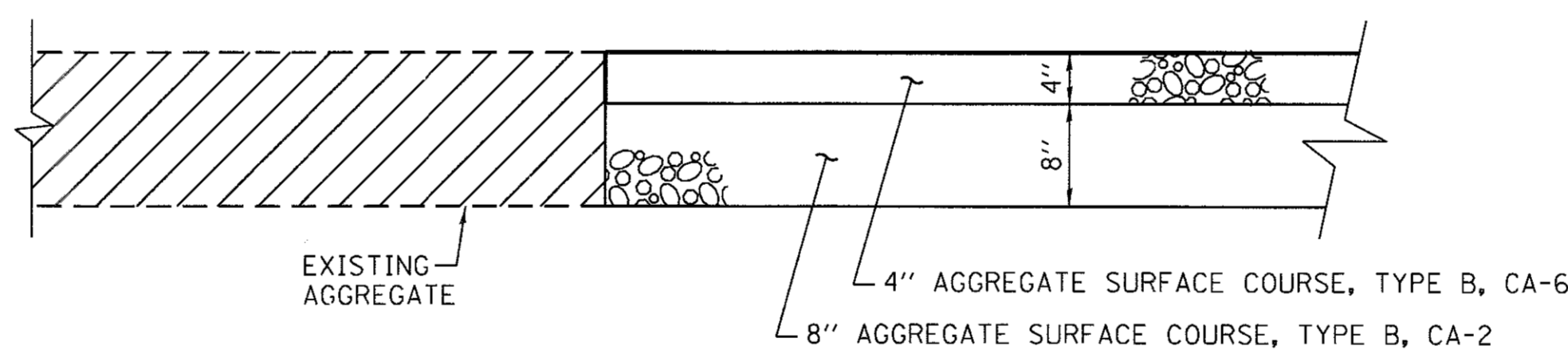
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	3
WHA# 1231015		CONTRACT NO. 87645		
ILLINOIS FED. AID PROJECT N6T2 (810)				



EXISTING TYPICAL SECTION

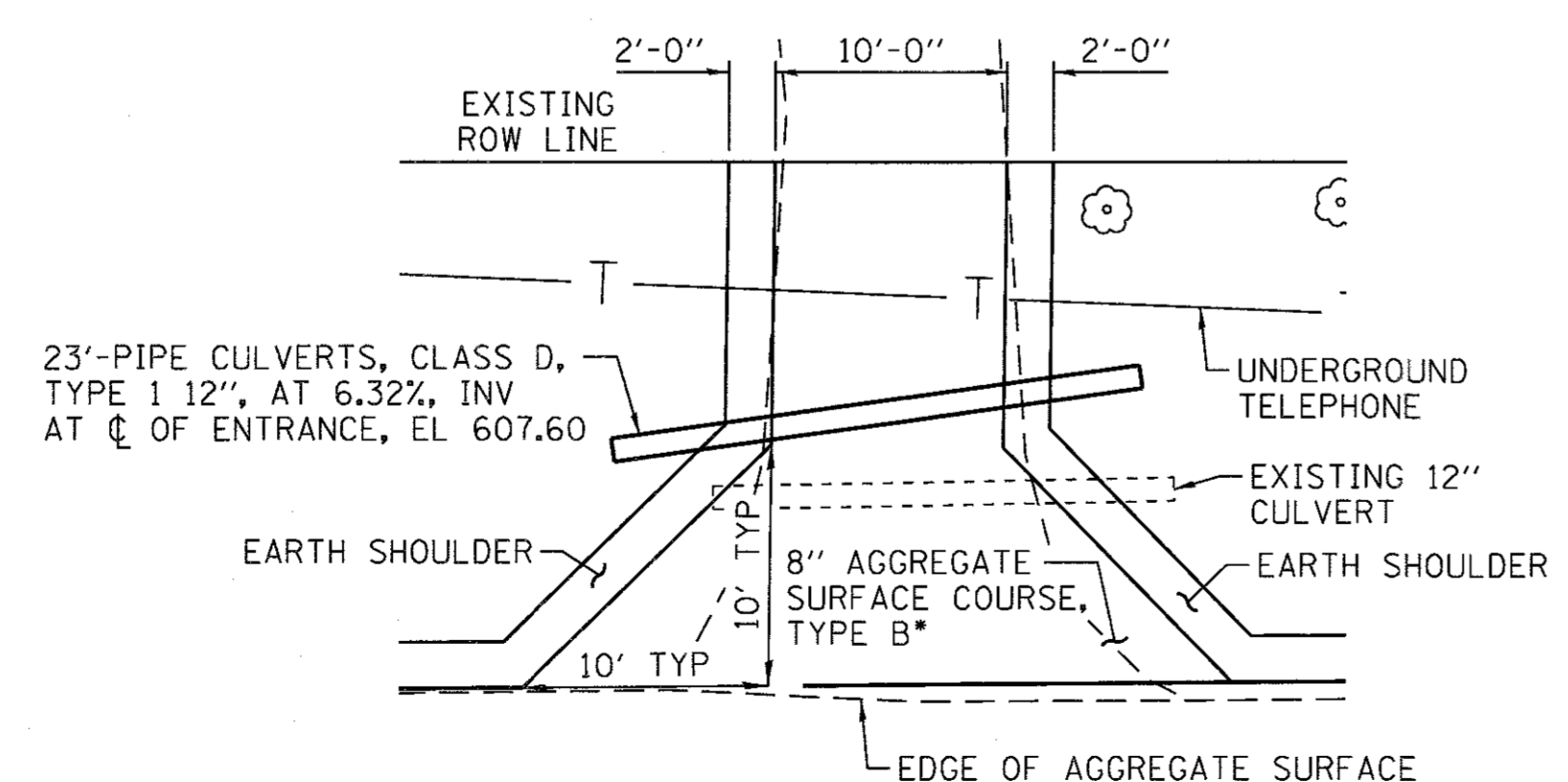


PROPOSED TYPICAL SECTION
STA. 19+09 TO STA. 20+54



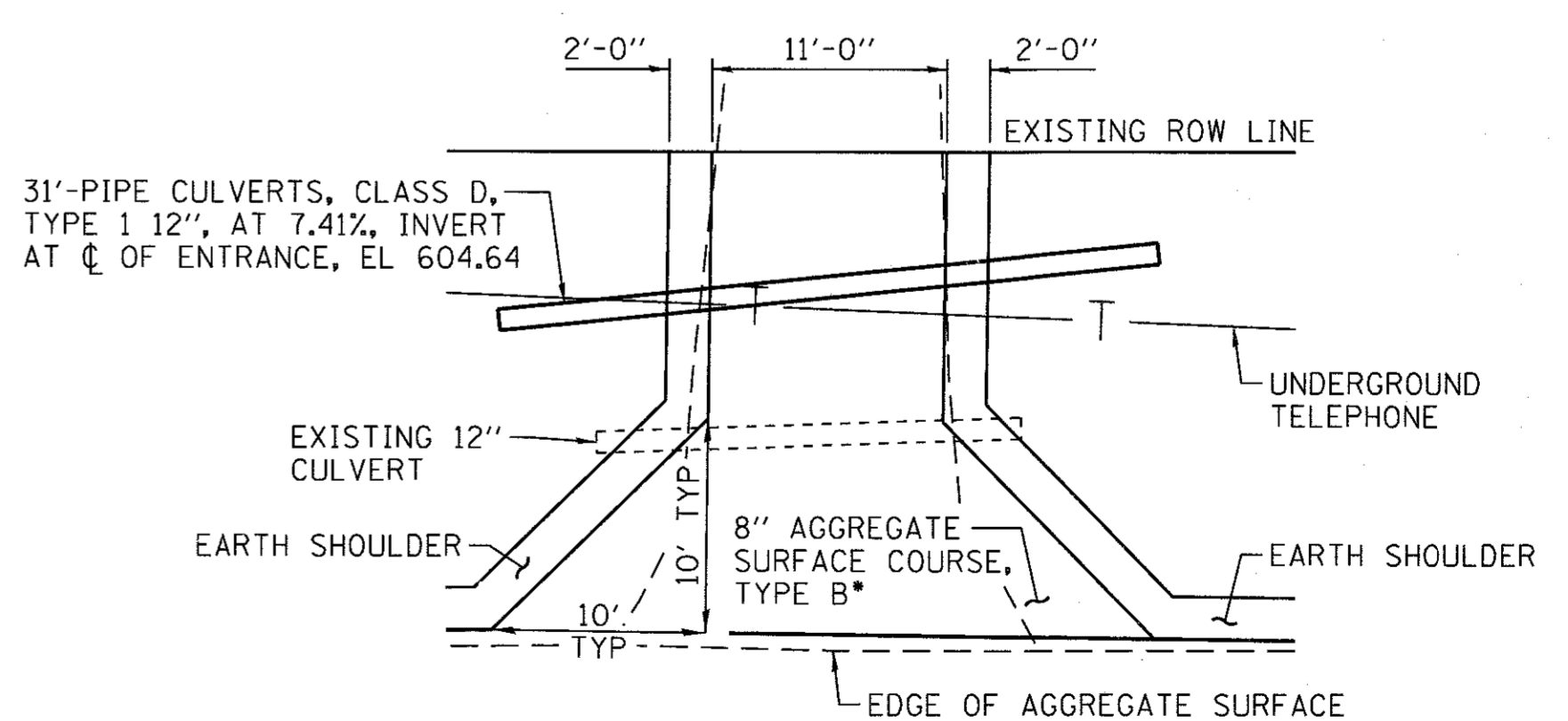
TYPICAL CORE JOINT DETAIL
STATION 18+00 & 21+50

TR 452 - HORIZONTAL CONTROL POINTS					
PT. #	LOCATION	N	E	EL	DESCRIPTION
1	16.4' RT OF ±STA 16+74.15	1764324.18	899142.78	615.52	5/8" IPS
2	12.0' LT OF ±STA 19+42.32	1764591.62	899108.44	609.01	5/8" IPS
3	10.7' LT OF ±STA 22+63.87	1764913.28	899105.55	611.05	5/8" IPS
4	12.1' LT OF ±STA 24+98.98	1765148.46	899103.84	614.51	5/8" IPS



PEL 18+85

*SEE SPECIAL PROVISIONS



PEL 19+25

*SEE SPECIAL PROVISIONS



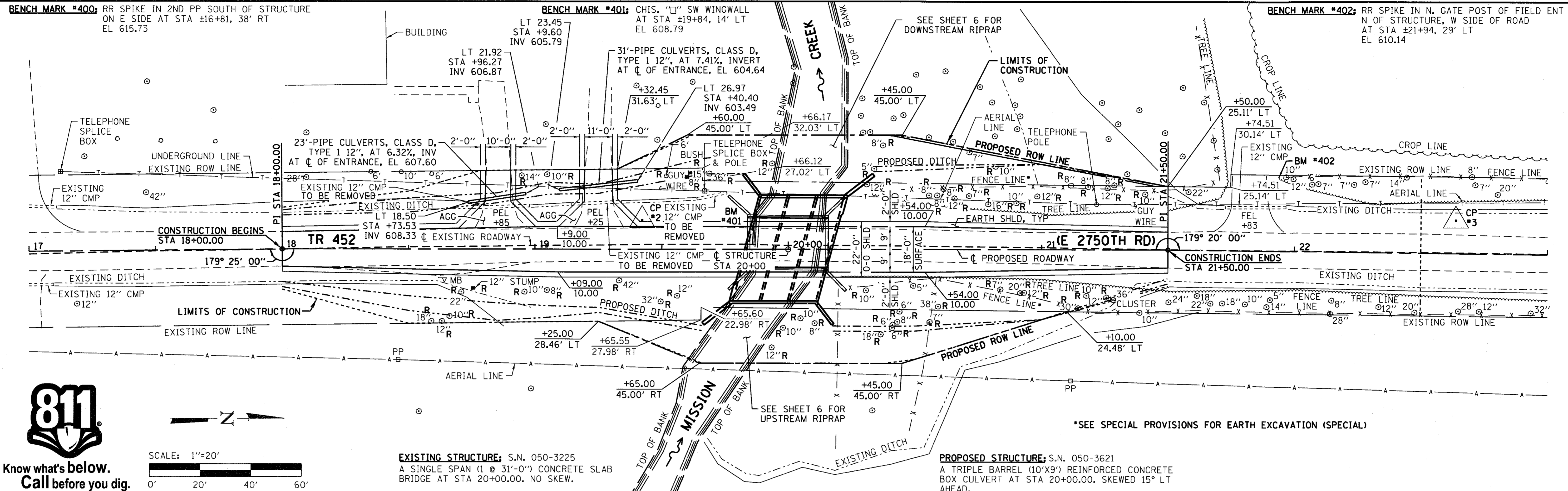
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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

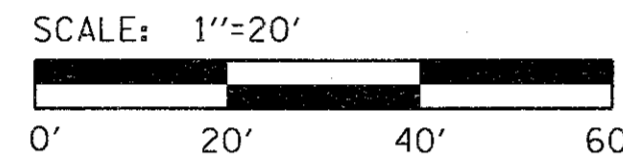
TYPICAL SECTIONS AND DETAILS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	4
WHA# 1231015			CONTRACT NO. 87645	
ILLINOIS FED. AID PROJECT N6T2 (810)				

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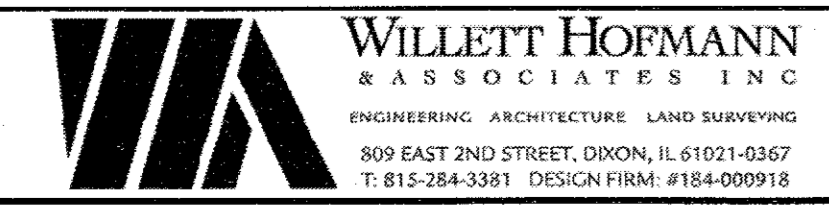
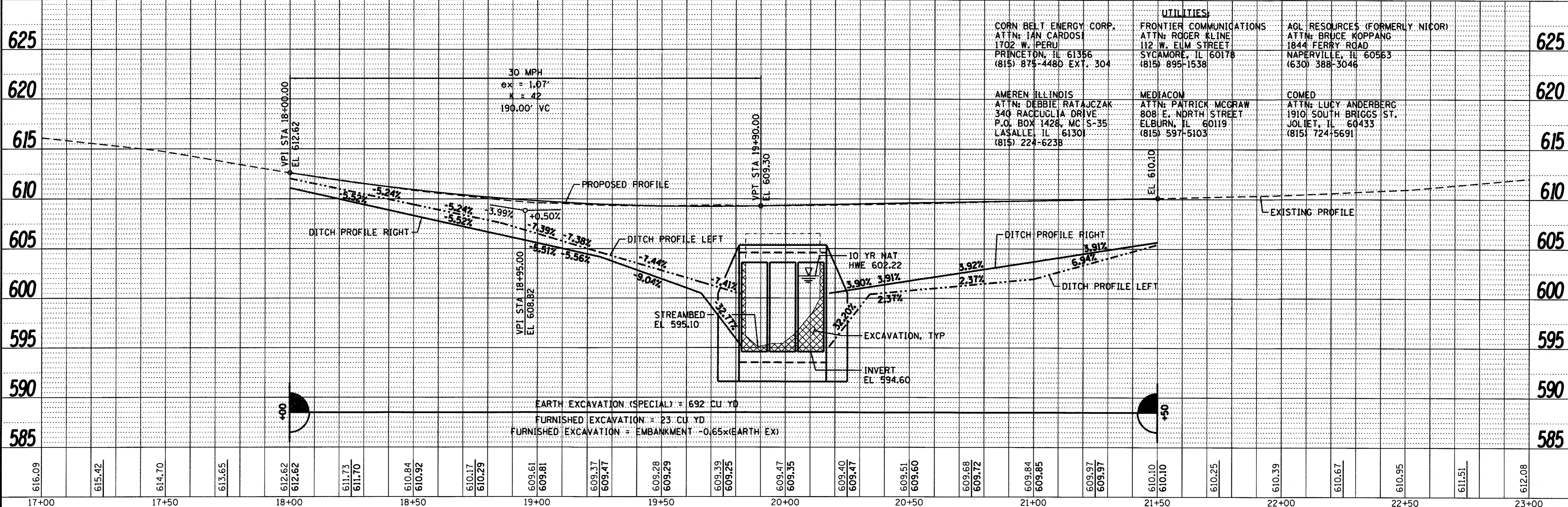


Know what's below.
Call before you dig.



DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
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DATE	
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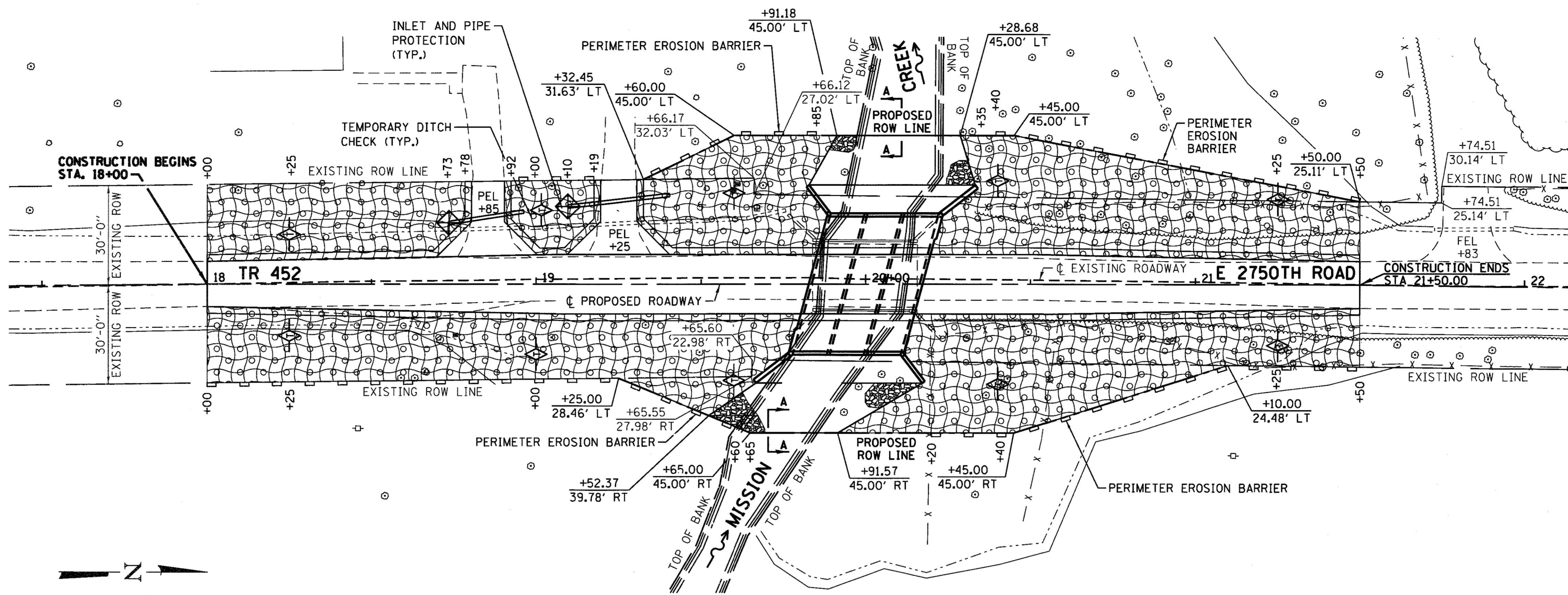


DESIGNED -	PLP	REVISED -	
CHECKED -	BKC	REVISED -	
DRAWN -	DAN	REVISED -	
CHECKED -	PLP	REVISED -	

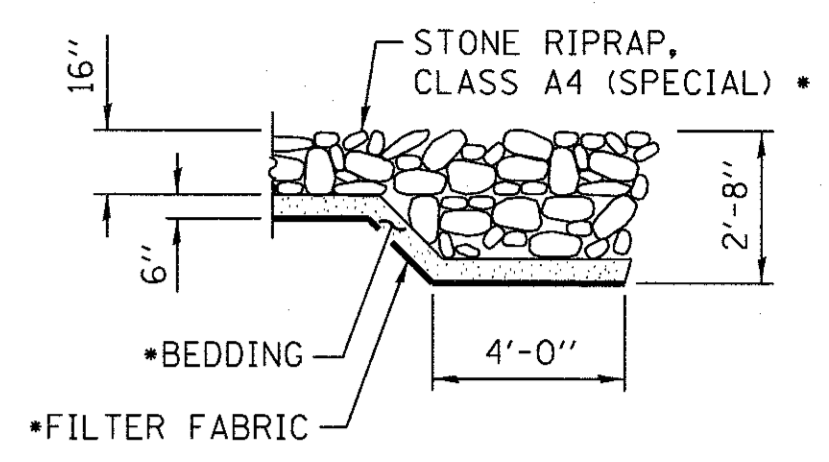
LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

PLAN & PROFILE
SCALE: 1" = 20'-0" SHEET NO. 1 OF 1 SHEETS STA 17+00 TO STA 23+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	5
WHA# 1231D15			CONTRACT NO. 87645	
ILLINOIS FED. AID PROJECT			N672 (810)	



PLAN - EROSION CONTROL



SECTION A-A

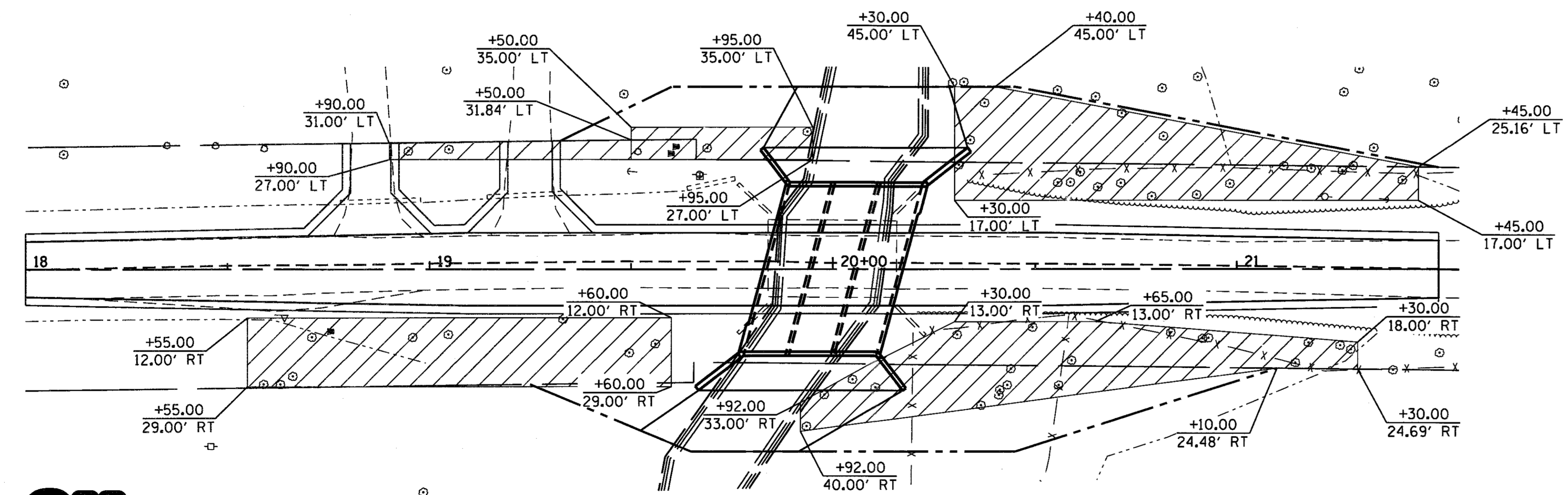
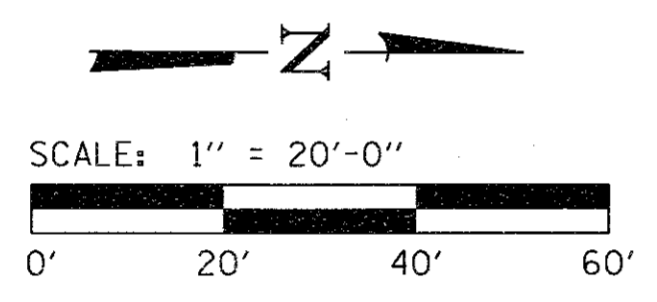
* = SEE SPECIAL PROVISIONS

LEGEND

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2 (SPECIAL)
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- STONE RIPRAP, CLASS A4 (SPECIAL)



Know what's below.
Call before you dig.



PLAN - TREE REMOVAL

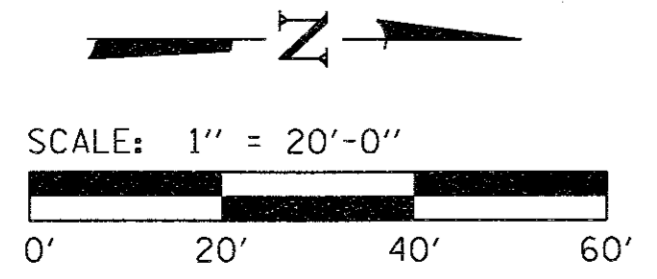
SEE SHEET 3 FOR COMMITMENTS

LEGEND

- TREE REMOVAL, ACRES



Know what's below.
Call before you dig.



EROSION CONTROL NOTES

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2" OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.

PERIMETER EROSION BARRIER SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH STATIONS SHOWN ON THE SCHEDULE OF QUANTITIES SHEET OR AS DIRECTED BY THE ENGINEER.

SILT FENCE SHALL BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF ALL AREAS ADJACENT TO THE ON-SITE DRAINAGES. THE SILT FENCE WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

FOR SEEDING, CLASS 2 (SPECIAL) SEE SPECIAL PROVISIONS.

EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AND TO ALL DISTURBED AREAS AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FOR BASIS OF PAYMENT, SEE SPECIAL PROVISIONS FOR SEEDING, CLASS 2 (SPECIAL).

THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.

TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001-07.

TEMPORARY DITCH CHECKS SHALL BE PLACED AT STATIONS CALLED OUT IN THE SCHEDULE OF QUANTITIES OR AS DIRECTED BY THE ENGINEER.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

ALL ADJACENT ENTRANCES MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

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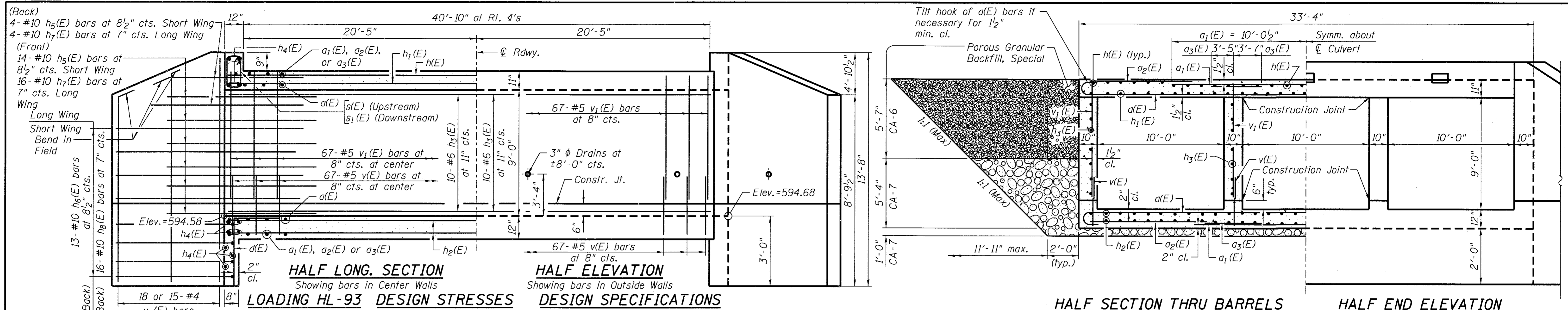
WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0347
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

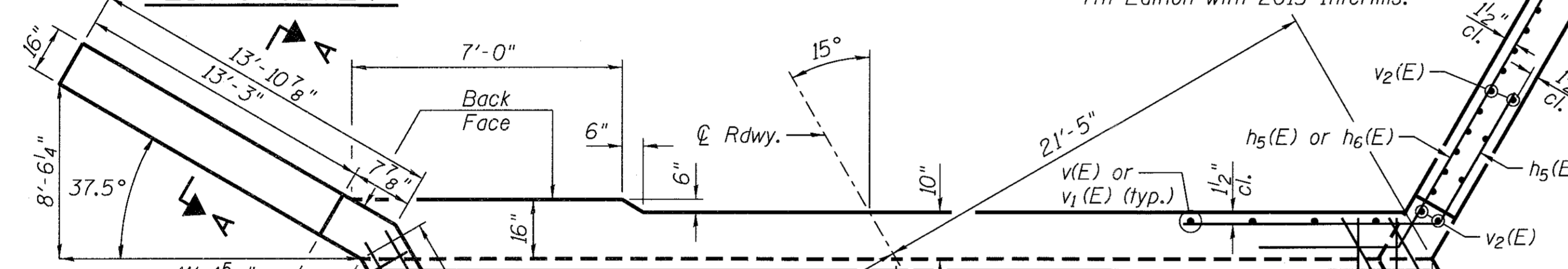
LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20 + 00

EROSION CONTROL AND TREE REMOVAL PLAN
SCALE: 1" = 20'-0"
SHEET NO. 1 OF 1 SHEET
STA. 17+40.00 TO STA. 22+15.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	6
WHA# 1231D15		CONTRACT NO. 87645		
		ILLINOIS FED. AID PROJECT N&T2 (810)		



REINFORCEMENT



SIZE	LAP
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"



DATE: 10/19/2016
EXPIRES 11/30/16

"I Certify That To The Best Of My Knowledge, Information And Belief, This Culvert Design Is Structurally Adequate For The Design Loading Shown On The Plans, The Design Is An Economical One, & Complies With Requirements Of The Current AASHTO Bridge Design Specifications."

MISSION CREEK
BUILT 2017 BY
LASALLE COUNTY
SECTION 15-22770-00-BR
TWP RTE 452 STATION 20+00
SN 050-3621 LOADING HL-93

NAME PLATE LETTERING
Refer to Std. 515001

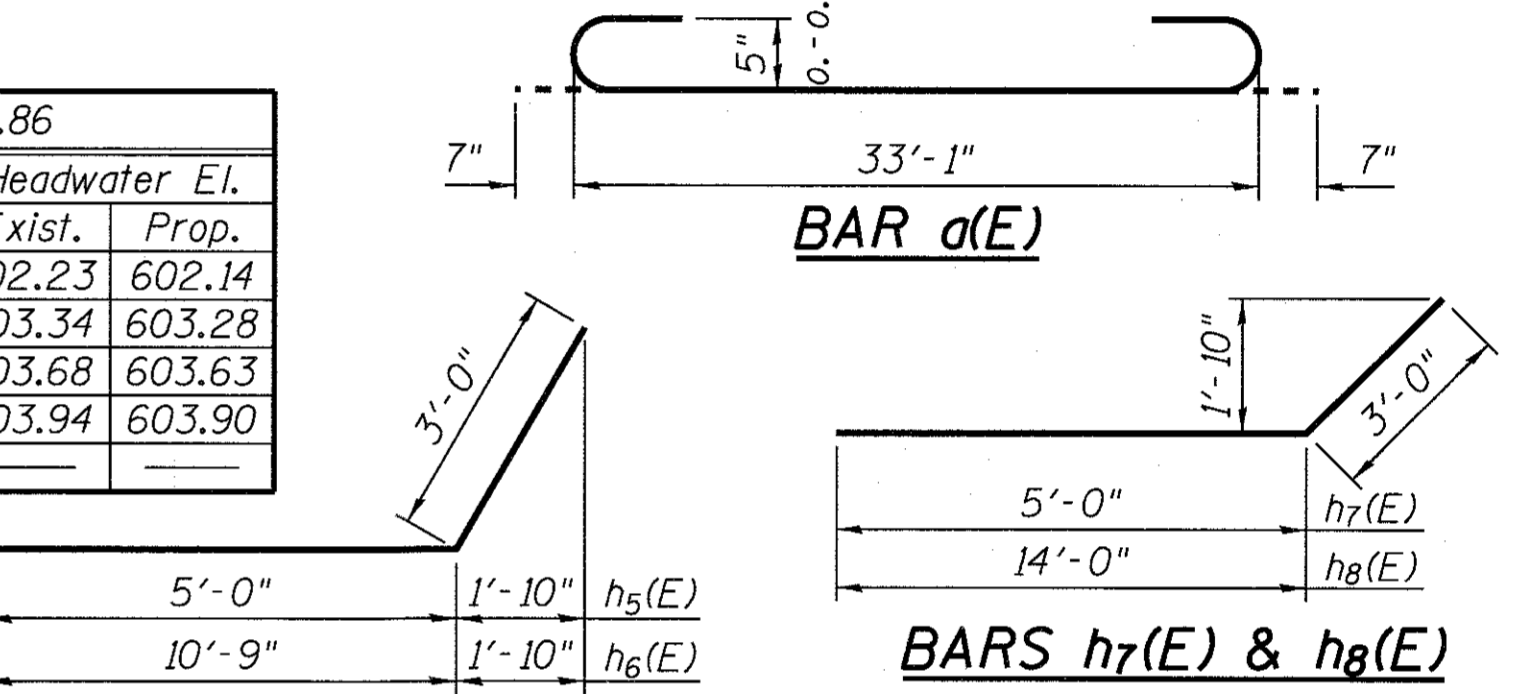
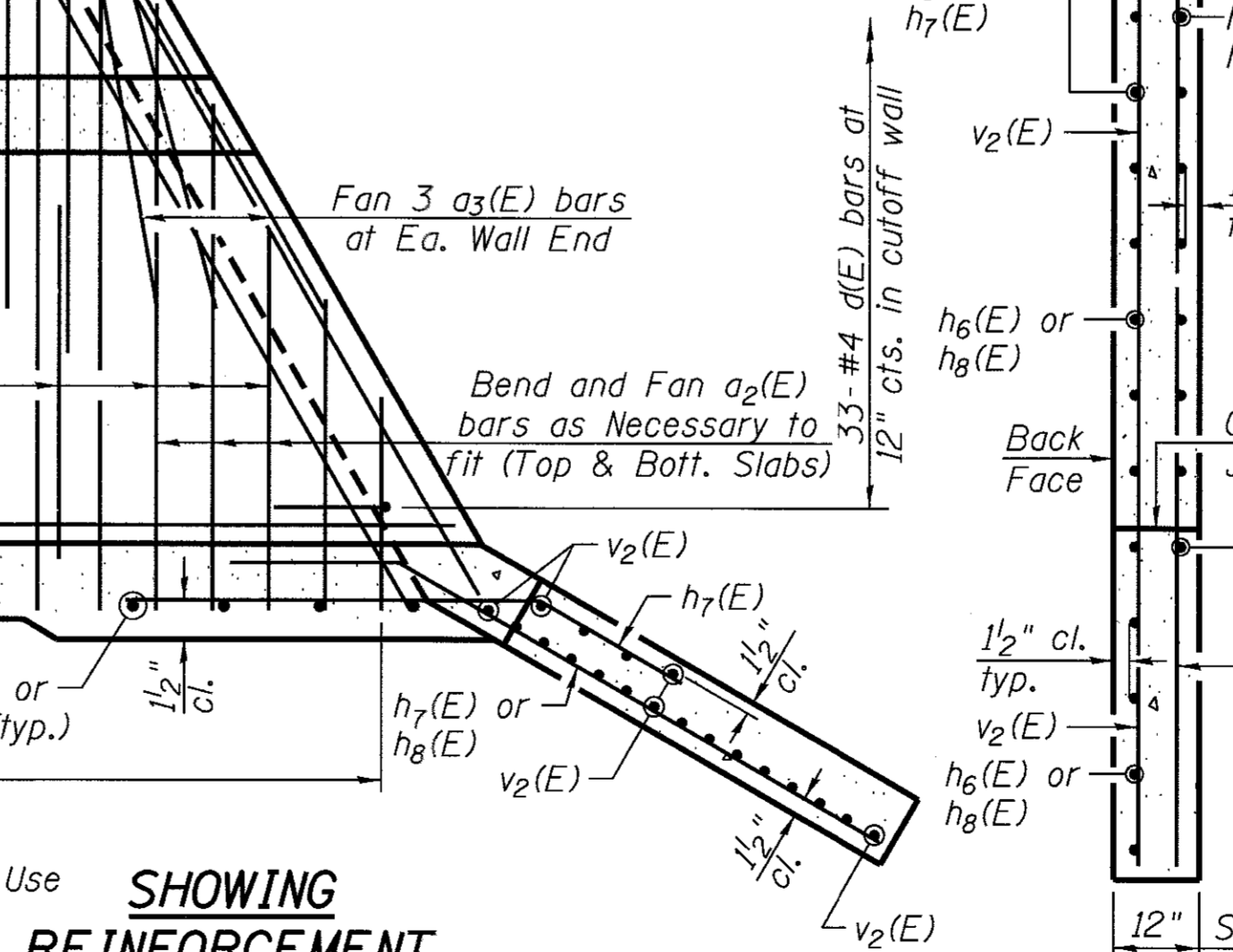
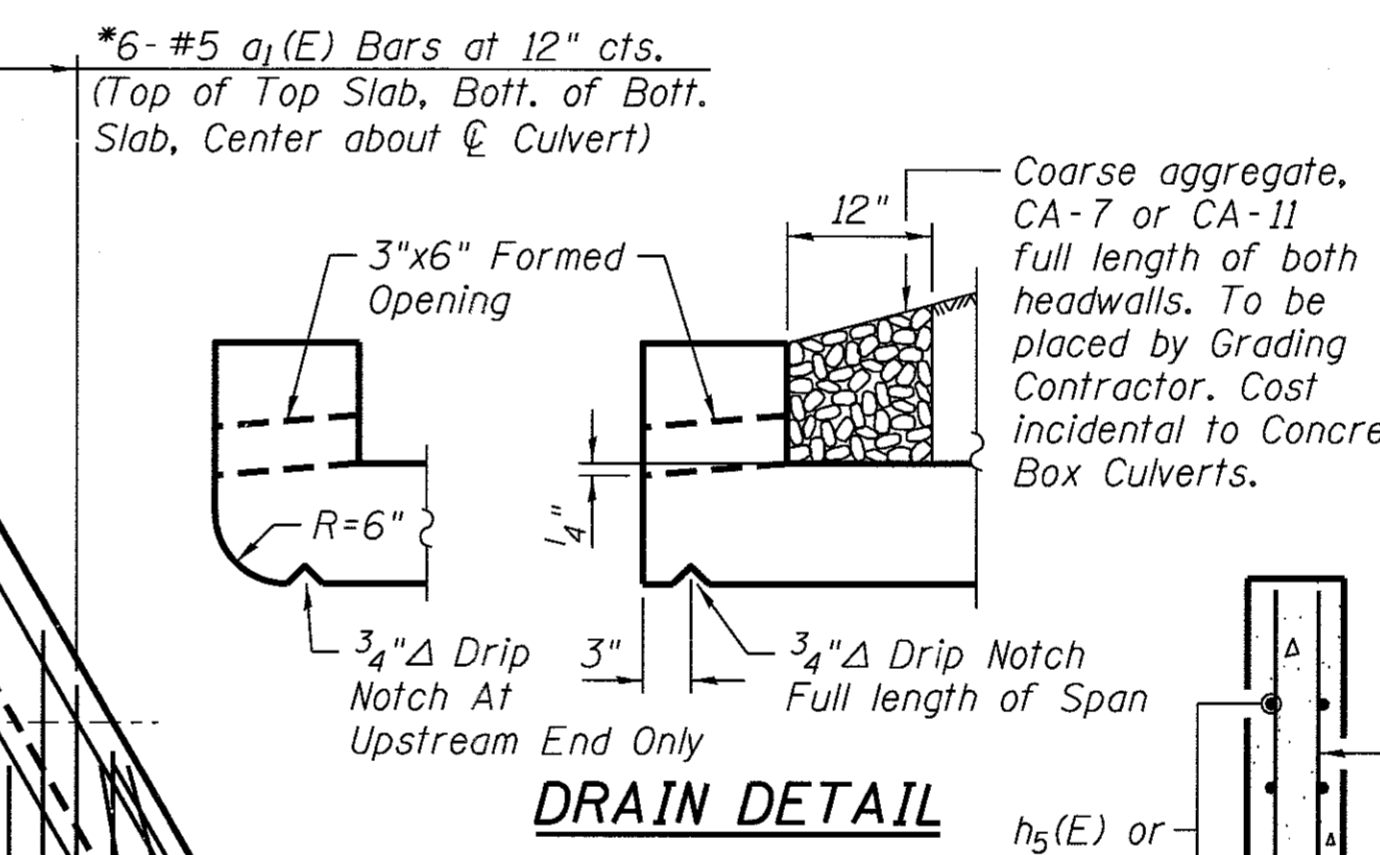
LOADING HL-93 DESIGN STRESSES
Allow for 50 #/sq. ft. future wearing surface
 $f_y = 60,000$ p.s.i.
 $f'_c = 3,500$ p.s.i.

DESIGN SPECIFICATIONS
Design in accordance with 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims.

WATERWAY INFORMATION

Drainage Area = 4.51 sq. mi. Low Grade El. 609.25 at Sta. 19+68.86

Flood	Freq. Yr.	Q CFS	Opening Sq. Ft.		Nat. HWE	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	505	176	213	602.22	0.02	0	602.23	602.14
Base	100	868	207	244	603.25	0.10	0.06	603.34	603.28
Scour Check	200	1,010	217	255	603.60	0.08	0.03	603.68	603.63
Max. Calc.	500	1,120	217	255	603.86	0.09	0.03	603.94	603.90
Overtopping									



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	152	#5	34'-3"	U
a2(E)	90	#5	20'-1"	U
a3(E)	180	#4	10'-4"	U
a3(E)	176	#5	7'-0"	U
d(E)	66	#4	4'-6"	L
h(E)	66	#4	23'-4"	U
h1(E)	36	#5	44'-0"	U
h2(E)	66	#5	44'-0"	U
h3(E)	40	#6	44'-0"	U
h4(E)	22	#6	33'-2"	U
h5(E)	36	#10	8'-0"	U
h6(E)	26	#10	13'-9"	U
h7(E)	40	#10	8'-0"	U
h8(E)	32	#10	17'-0"	U
s1(E)	34	#4	4'-11"	U
s1(E)	34	#4	5'-1"	U
v1(E)	284	#5	4'-8"	U
v2(E)	284	#5	9'-2"	U
v2(E)	66	#4	13'-5"	U

Removal of Existing Structures Each 1
Reinforcement Bars, Epoxy Coated Pound 30,910
Name Plates Each 1
Concrete Box Culverts Cu Yd 186.6
Porous Granular Backfill, Special Cu Yd 366

NOTES:
Precast concrete box culvert option not allowed.
All exposed edges shall be chamfered 3/4" unless otherwise noted.

DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

TRIPLE BARREL BOX CULVERT DETAILS
STRUCTURE NO. 050-3621
STRUCTURAL SHEET NO. 1 OF 3 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	7
WHA# 1231D15		CONTRACT NO. 87645		
		ILLINOIS FED. AID PROJECT	N&T2 (810)	

FILE: S:\PROJECTS\2015\1231D15\LCH\DESIGN\STRUCT\2D\Drawings\231D15_Triple Barrel Box Culvert Details.dgn

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 1 of 3
Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL
Boring No. B-1
Surface Elev. 609.50
Auger Depth 50' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 19+70

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
609.50									Jeff Safranski D-120	
608.50	Medium Brown Gravel (Fill)		1							
607.50			2							
606.50			3	1	SS	-	23	-	10	
605.50	Stiff Brownish Gray Clay (Fill)		4							
604.50			5	2	SS	1.4	7	B	21	
603.50			6							
602.50	Stiff Brownish Sandy Clay		7							
601.50			8	3	SS	1.6	10	S	17	
600.50			9							
599.50			10	4	SS	2.4	16	S	14	
598.50			11							
597.50	Very Stiff Brownish Gray Clay		12							
596.50			13	5	SS	2.0	12	B	16	
595.50			14							
594.50			15	6	SS	2.1	13	B	16	
593.50			16							
592.50			17							
591.50			18	7	SS	2.0	13	B	15	
590.50			19							
589.50	Stiff Brownish Gray & Black Clay w/ Organics		20	8	SS	1.3	14	S	23	

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 2 of 3
Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL
Boring No. B-1
Surface Elev. 609.50
Auger Depth 50' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 19+70

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
588.50									Jeff Safranski D-120	
587.50			22							
586.50	Stiff Brownish Gray & Black Clay w/ Organics		23	9	SS	1.4	15	S	22	
585.50			24							
584.50			25							
583.50			26	10	SS	1.2	15	S	38	
582.50			27							
581.50			28	11	SS	1.1	10	B	18	
580.50	Stiff Gray Clay		29							
579.50			30	12	SS	1.0	11	B	20	
578.50			31							
577.50			32							
576.50			33	13	SS	1.2	12	B	16	
575.50			34							
574.50			35							
573.50			36	14	SS	1.0	10	B	17	
572.50			37							
571.50			38							
570.50	Dense Gray Sandy Shale		39							
569.50			40							
568.50			41	15	SS	---	42	---	12	

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
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e-mail: mts37@comcast.net

BORING LOG
Sheet 3 of 3
Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL
Boring No. B-1
Surface Elev. 609.50
Auger Depth 50' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 19+70

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
567.50									Jeff Safranski D-120	
566.50			43							
565.50			44							
564.50	Dense Gray Sandy Shale		45							
563.50			46	16	SS	---	46	---	12	
562.50			47							
561.50			48							
560.50			49							
559.50	Refusal Limestone Bedrock		50							
558.50			51							
557.50			52							
556.50			53							
555.50			54							
554.50			55							
553.50			56							
552.50			57							
551.50			58							
550.50			59							
549.50			60							
548.50			61							
547.50			62							

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:



DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

BORING LOGS
STRUCTURE NO. 050-3621
STRUCTURAL SHEET NO. 2 OF 3 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	8
WHA# 1231D15			CONTRACT NO. 87645	
ILLINOIS FED. AID PROJECT N6T2 (816)				

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Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL

Boring No. B-2
Surface Elev. 609.50
Auger Depth 52' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 20+30

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
609.50									Jeff A. Sufanski D-120	
608.50	Medium Brown Gravel (Fill)		1							
607.50			2							
606.50			3	1	SS	---	16	---	12	
605.50	Stiff Brownish Gray Clay (Fill)		4							
604.50			5	2	SS	1.0	5	B	22	
603.50			6							
602.50	Stiff Brownish Gray Sandy Clay		7							
601.50			8	3	SS	1.7	8	B	20	
600.50			9							
599.50	Stiff Brown Gravelly Clay		10	4	SS	1.9	12	B	16	
598.50			11							
597.50	Very Stiff Brownish Gray Clay		12							
596.50			13	5	SS	2.2	16	S	17	
595.50			14							
594.50			15	6	SS	2.0	14	S	16	
593.50			16							
592.50			17							
591.50	Stiff Brownish Gray & Black Clay w/Organics		18	7	SS	1.4	15	S	20	
590.50			19							
589.50			20	8	SS	1.2	13	S	25	

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL

Boring No. B-2
Surface Elev. 609.50
Auger Depth 52' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 20+30

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
588.50									Jeff Sufanski D-120	
587.50	Stiff Brownish Gray & Black Clay w/Organics		22							
586.50			23	9	SS	1.3	16	B	29	
585.50			24							
584.50			25	10	SS	1.3	12	B	21	
583.50			26							
582.50			27							
581.50			28	11	SS	1.2	12	B	20	
580.50			29							
579.50	Stiff Gray Clay with Limestone fragments		30	12	SS	1.3	12	B	18	
578.50			31							
577.50			32							
576.50			33	13	SS	1.0	10	B	21	
575.50			34							
574.50			35							
573.50			36	14	SS	1.1	10	B	19	
572.50			37							
571.50			38	15	SS	---	31	---	16	
570.50			39							
569.50	Dense Gray Sandy Shale		40							
568.50			41	16	SS	---	38	---	13	

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG
Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willett Hofmann & Assoc. Inc.
Project Name: Section 15-2270-00-BR
Project Site: Mission Twp
LaSalle County, IL

Boring No. B-2
Surface Elev. 609.50
Auger Depth 52' Rotary Depth NA
Start Date 03/04/16 Finish Date 03/04/16

Location: 6 'Lt Station 20+30

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
567.50									Jeff Sufanski D-120	
566.50			43							
565.50			44							
564.50			45							
563.50	Dense Gray Sandy Shale		46	17	SS	---	40	---	15	
562.50			47							
561.50			48							
560.50			49							
559.50			50							
558.50			51	18	SS	---	45	---	14	
557.50	Refusal Limestone		52							
556.50			53							
555.50			54							
554.50			55							
553.50			56							
552.50			57							
551.50			58							
550.50			59							
549.50			60							
548.50			61							
547.50			62							

Groundwater Data: Static water table after auger removal - Elevation 602.5
Comments:

FILE: S:\PROJECTS\2015\123015.LCH\DESIGN\STRUCT\20.Drawings\123015.Boring_Log.dgn

WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

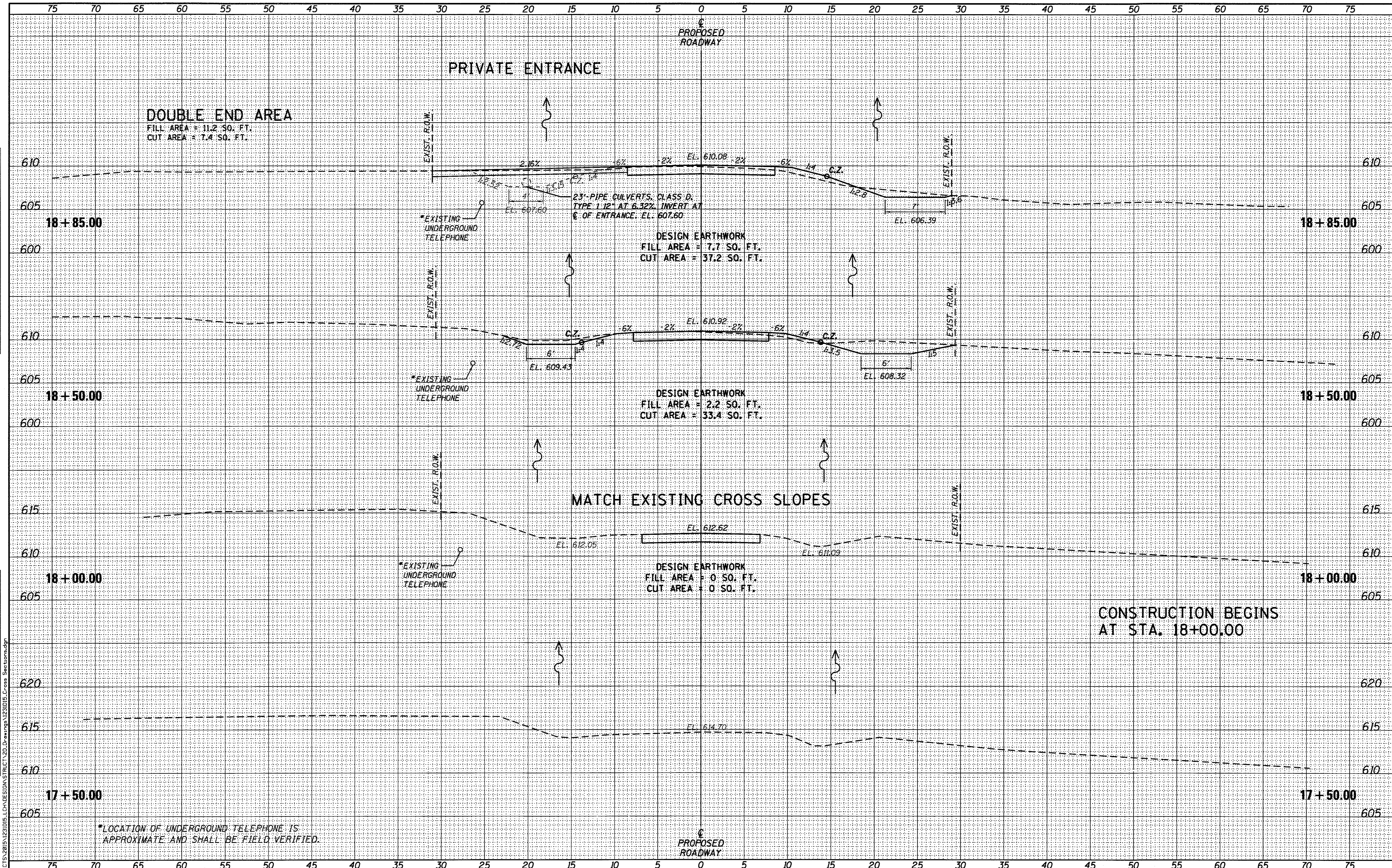
LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 050-3621
STRUCTURAL SHEET NO. 3 OF 3 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	9
WHA# 1231D15			CONTRACT NO. 87645	
[ILLINOIS] FED. AID PROJECT			N6T2(810)	

DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



*LOCATION OF UNDERGROUND TELEPHONE IS APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE: S:\PROJECTS\2815\1231D15.LCA\DESIGN\STRUCT\20.Dwg\Comp\1231D15_Cross_Section.dwg



DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - BSK	REVISED -
CHECKED - PLP	REVISED -

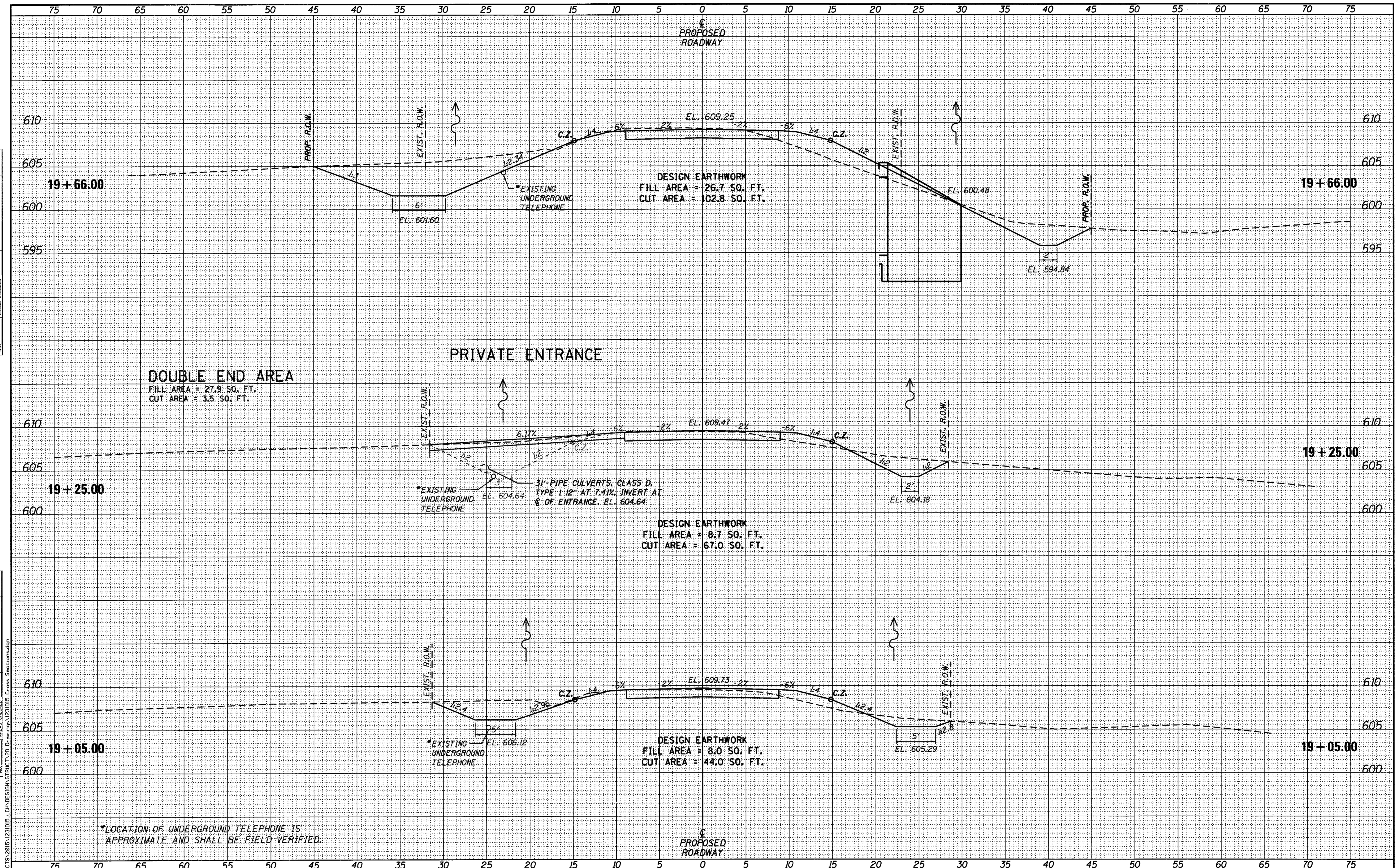
LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20 + 00

CROSS SECTIONS
 SCALE: 1" = 5'-0"
 SHEET NO. 1 OF 4 SHEETS
 STA. 18+00.00 TO STA. 18+85.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	10
WHA# 1231D15			CONTRACT NO. 87645	
ILLINOIS FED. AID PROJECT			N6T2 (810)	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	



*LOCATION OF UNDERGROUND TELEPHONE IS APPROXIMATE AND SHALL BE FIELD VERIFIED.



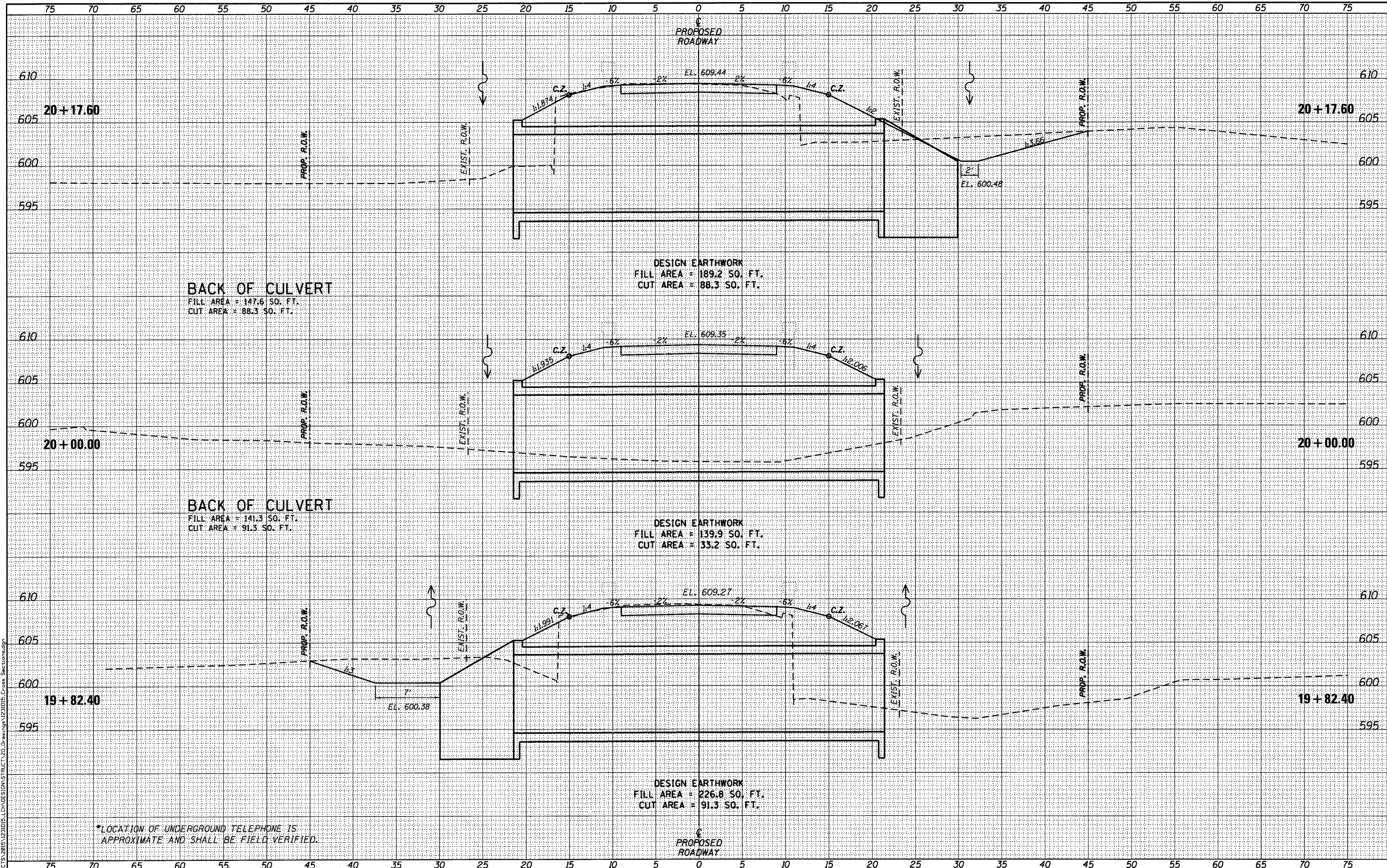
DESIGNED - PLP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - BSK	REVISED -
CHECKED - PLP	REVISED -

LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

CROSS SECTIONS
 SCALE: 1" = 5'-0"
 SHEET NO. 2 OF 4 SHEETS
 STA. 19+05.00 TO STA. 19+66.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	11
WHA# 1231D15		CONTRACT NO. 87645		
ILLINOIS FED. AID PROJECT N672(810)				

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BACK OF CULVERT
 FILL AREA = 147.6 SQ. FT.
 CUT AREA = 88.3 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 189.2 SQ. FT.
 CUT AREA = 88.3 SQ. FT.

BACK OF CULVERT
 FILL AREA = 141.3 SQ. FT.
 CUT AREA = 91.3 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 139.9 SQ. FT.
 CUT AREA = 33.2 SQ. FT.

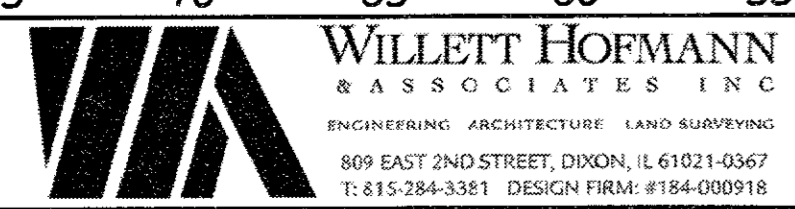
DESIGN EARTHWORK
 FILL AREA = 226.8 SQ. FT.
 CUT AREA = 91.3 SQ. FT.

*LOCATION OF UNDERGROUND TELEPHONE IS APPROXIMATE AND SHALL BE FIELD VERIFIED.

DATE	
BY	
FINAL SURVEY	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
TEMPLATE	
AREAS CHECKED	
NO.	

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DESIGNED -	PLP	REVISED -	
CHECKED -	BKC	REVISED -	
DRAWN -	BSK	REVISED -	
CHECKED -	PLP	REVISED -	

LASALLE COUNTY
TR 452 (E 2750TH RD) OVER MISSION CREEK
STATION 20+00

CROSS SECTIONS
 SCALE: 1" = 5'-0"
 SHEET NO. 3 OF 4 SHEETS
 STA. 19+82.40 TO STA. 20+17.60

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
452	15-22770-00-BR	LASALLE	13	12
WHA# 1231D15		CONTRACT NO. 87645		
ILLINOIS FED. AID PROJECT N6T2(310)				

