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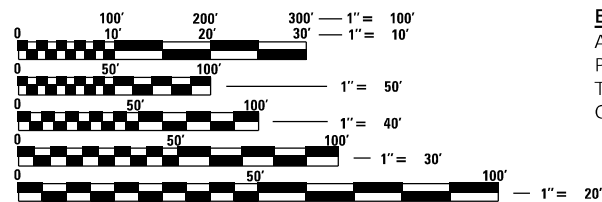
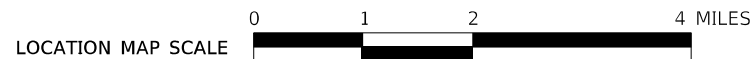
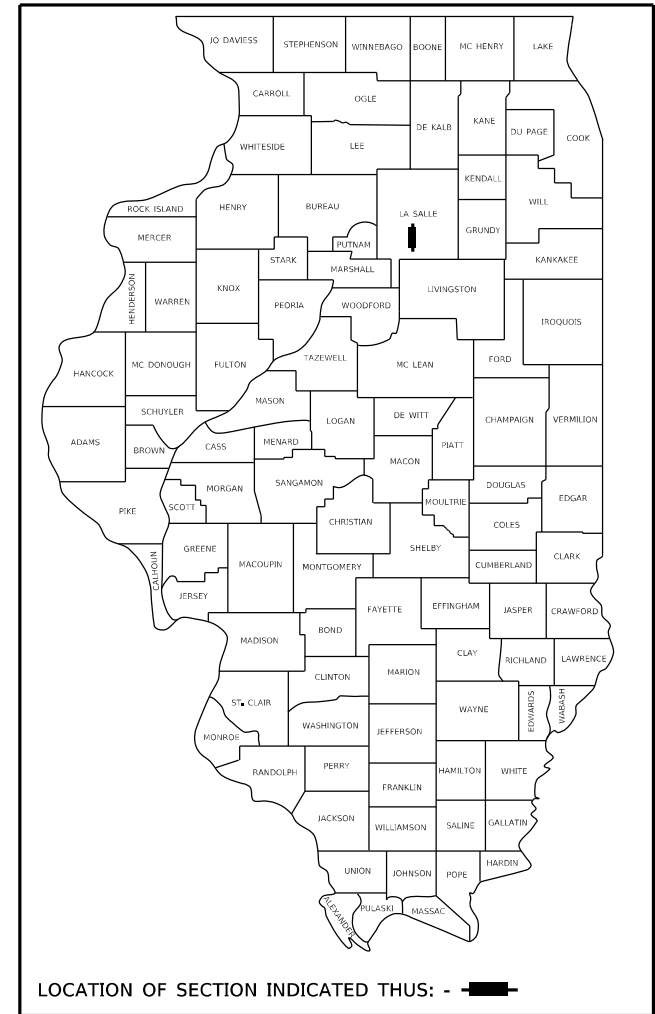
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
PROGRAM
F.A.S. 1275 (C.H. 57)
SECTION 15-00760-00-BR
PROJECT 6F9S(994)
STRUCTURE REPLACEMENT
LASALLE COUNTY

C-93-046-17

F.A.S. RTE. 1275	SECTION 15-00760-00-BR	COUNTY LASALLE	TOTAL SHEETS 59	SHEET NO. 1
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



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.

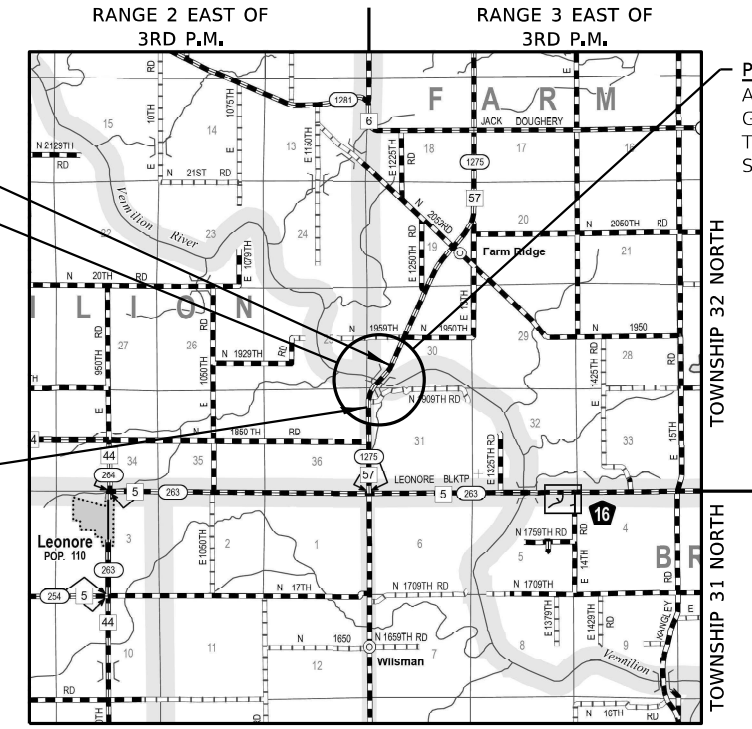
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER - DCB
PROJECT MANAGER - DCB

CONTRACT NO. 87673

EXISTING STRUCTURE: S.N. 050-3150
 A THREE SPAN (50'-0":192'-0":50'-0") WELDED PLATE GIRDER BRIDGE ON FOOTING SUPPORTED TIMBER PILES AND STUB ABUTMENTS ON PRECAST CONCRETE PILES. AT STATION 20+00. NO SKEW.

FUNCTIONAL CLASSIFICATION
MINOR COLLECTOR
POSTED SPEED 55 MPH
DESIGN SPEED 30 MPH
2022 ADT = 208
3R GUIDELINES



CONSTRUCTION ENDS STA. 24+00.00

CONSTRUCTION BEGINS STA. 15+75.00

PROPOSED STRUCTURE: S.N. 050-3627
 A THREE SPAN (80'-0":150'-0":80'-0") STEEL GIRDER BRIDGE WITH CONCRETE DECK ON SPILL THRU INTEGRAL ABUTMENTS AND DRILLED SHAFT SUPPORTED STEM PIERS AT 20+00.00. NO SKEW.

GROSS LENGTH = 825 FT = 0.156 MILE
 NET LENGTH = 825 FT = 0.156 MILE



DATE: **8-18-22**
 EXPIRES 11/30/23

WILLETT, HOFMANN & ASSOCIATES, INC.
 PE SIGNATURE

LASALLE COUNTY HIGHWAY DEPARTMENT

Donald Ernat 18 August 2022 | 14:41
 APPROVED _____ 2022
Disapproved by
Signature of Donald Ernat
 LASALLE COUNTY ENGINEER

PASSED NOVEMBER 9, 2022
Signature
 DISTRICT 3 LOCAL ROADS & STREETS ENGINEER

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW NOVEMBER 9, 2022
Signature
 REGION 2 ENGINEER

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



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HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREA OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420406-00 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- 515001-04 NAME PLATE FOR BRIDGES
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-02 DELINEATORS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUADRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

THE CONTRACTORS SHALL BE RESPONSIBLE FOR FOLLOWING AND ADHERE TO ALL APPLICABLE CONSTRUCTION PRACTICES, MATERIAL SPECIFICATIONS, AND REQUIREMENTS AS SPECIFIED IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022.

A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, 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.

THE REMOVAL OF ALL BITUMINOUS SURFACING REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS PAVEMENT REMOVAL, AND TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PER SQ YD FOR PAVEMENT REMOVAL. ANY BITUMINOUS AND CONCRETE MATERIAL SHALL BE DISPOSED OF AND IS NOT SUITABLE FOR FILL MATERIAL.

ANY FILL MATERIAL DETERMINED TO BE SUITABLE BY THE ENGINEER THAT IS PRODUCED FROM EARTH EXCAVATION (SPECIAL), CHANNEL EXCAVATION AND WEIR INSTALLATION OPERATIONS CAN BE USED AS NEEDED FOR ANY FURNISHED EXCAVATION.

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 CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR TOPSOIL FURNISH AND PLACE, 4" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.

ALL "AGGREGATE SUBGRADE IMPROVEMENT"(IDOT D3), SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING IS TO BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ALL PAVEMENT SHALL BE CLEANED AND "FRESH OIL" SIGNS SHALL BE PLACED AT ALL INTERSECTIONS OF THE STREETS PRIOR TO APPLYING BITUMINOUS MATERIALS (PRIME COAT).

ACCESS ROAD CONSTRUCTION SHALL AVOID TREE REMOVAL. TREE REMOVAL AND TRIMMING SHALL BE COORDINATED WITH THE COUNTY AND THE PROPERTY OWNER.

GENERAL NOTES (CONT.)

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FIELD TILES, UNDERGROUND AND SURFACE UTILITIES AS OUTLINED IN SECTION 107 OF THE STANDARD SPECIFICATIONS, EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY FIELD TILE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS ENCOUNTERED UNTIL AN OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS, UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

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 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 LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

COMED ATTN: KYLE ISEK 1 LINCOLN CENTRE OAKBROOK TERRACE, IL 60181 (630) 684 - 2753 KYLE.ISEK@COMED.COM	FRONTIER COMMUNICATIONS (NORTH) ATTN: KALIN HINSHAW 112 ELM STREET SYCAMORE, IL 60178 (815) 895 - 1515 KALIN.HINSHAW@FTR.COM
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AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS AS PRESENTED IN THESE PLAN DOCUMENTS ARE SUBSTANTIALLY CORRECT; IF DISCREPANCIES ARE DETECTED THE CONTRACTORS SHALL NOTIFY THE ENGINEER AND OWNER AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION IN ORDER TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION. WORK PERFORMED OR MATERIALS AND EQUIPMENT INSTALLED WITHOUT INSPECTION MAY BE CONSIDERED UNACCEPTABLE AT THE DISCRETION OF THE ENGINEER AND MAY HAVE TO BE REPLACED AT NO COST TO THE ENGINEER OR OWNER.

FINAL INSPECTION OF THE WORK PERFORMED UNDER THIS CONTRACT WILL BE DONE BY THE ENGINEER OR OWNER PRIOR TO FINAL ACCEPTANCE; DEFECTS SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT COST TO THE OWNER PRIOR TO ISSUANCE OF THE FINAL PAYMENT. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED WITH REGARD TO WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL PAYMENT TO THE CONTRACTOR; DEFECTS WHICH ARISE DURING THE GUARANTEE PERIOD SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER WITHIN 30 DAYS OF RECEIVING NOTIFICATION OF THE DEFECT.

ALL EROSION CONTROL MEASURES SHALL BE KEPT IN PROPER FUNCTIONING CONDITION AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES DURING THE COURSE OF THE PROJECT.

AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP OR CLEAN (NOT FLUSH) ANY CONSTRUCTION SOIL MATERIAL FROM THE STREET TO PREVENT TRACKING. THE ENGINEER SHALL HAVE AUTHORITY TO DETERMINE THE ADEQUACY OF CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER SHALL HAVE AUTHORITY TO SUSPEND OR LIMIT THE CONTRACTOR'S OPERATIONS PENDING ADEQUATE PERFORMANCE.

DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUIRED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEROF.

BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT, NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOB SITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY DEBRIS IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS DEBRIS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

GENERAL NOTES (CONT.)

ALL DUST ON-SITE SHALL BE CONTROLLED BY THE USE OF WATER BASED PRODUCTS ONLY. NO OILS OR PETROLEUM BASED AGENTS SHALL BE PERMITTED FOR DUST CONTROL.

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.

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.

COMMITMENTS

- ALL TREE CLEARING (FOR TREES THREE INCHES OR GREATER IN DIAMETER) SHALL TAKE PLACE BETWEEN OCTOBER 1ST AND MARCH 31ST TO SATISFY USFWS BAT REQUIREMENTS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT			
	HMA BINDER	HMA SURFACE	HMA SHOULDER BOTTOM LIFT	HMA SHOULDER TOP LIFT
MIXTURE USE(S):	PG 64-22	PG 64-22	PG 64-22	PG 64-22
BINDER GRADE:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICION AGGREGATE		MIXTURE C		MIXTURE C
MIXTURE WEIGHT	112LBS/SY/IN	112LBS/SY/IN	112LBS/SY/IN	112LBS/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A	N/A
DENSITY TEST METHOD	CORES	CORES	CORES	CORES
MATERIAL TRANSFER DEVICE (REQUIRED)	NO	NO	NO	NO

PROJECT CONTROL

VERTICAL CONTROL				
BENCHMARK	STATION	ELEVATION	DESCRIPTION	
400	33.69' LT 15+42	572.83	RR SPK IN 2ND PP S OF STRUCTURE	
401	14.42' RT 18+41.6	563.28	"□" ON SE END OF STRUCTURE. S END OF WALL	
402	14.74' RT 21+58.7	560.76	"□" NE END OF STRUCTURE. N END OF WALL	
403	42.83' RT 25+86.9	567.08	PK SET IN S END OF 36" CMP FOR FLD ENT N OF STRUCTURE E SIDE OF CH57	

HORIZONTAL CONTROL					
POINT #	STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	23.84' LT 15+19	1654433.833	819657.258	575.26	¾" IPS
2	16.92' RT 18+15.6	1654633.516	819881.859	560.96	¾" IPS
3	17.94' RT 21+75	1654898.790	820124.535	558.42	¾" IPS
4	20.09' RT 24+50.6	1655101.166	820311.516	564.45	¾" IPS

REVISION	DATE	BY	REMARKS

DESIGNED	CBG
DRAWN	CBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



GENERAL NOTES & PROJECT CONTROL

SHEET 1 OF 1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	2
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
+ 20100500	TREE REMOVAL, ACRES	ACRE	0.85
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	110
20300100	CHANNEL EXCAVATION	CU YD	3,962
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,347
25100630	EROSION CONTROL BLANKET	SQ YD	6,234
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	131
28000400	PERIMETER EROSION BARRIER	FOOT	1,030
28100207	STONE RIPRAP, CLASS A4	TON	240
28200200	FILTER FABRIC	SQ YD	139
28300400	AGGREGATE DITCH	TON	119
* 30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	891
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	56
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,325
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	335

* INDICATES SPECIAL PROVISION
 + INDICATES SPECIALTY ITEMS

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	249
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	93.0
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	68
44000100	PAVEMENT REMOVAL	SQ YD	1,478
48101200	AGGREGATE SHOULDERS, TYPE B	TON	195
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	356
* 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
* 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	475
50300100	FLOOR DRAINS	EACH	34
50300225	CONCRETE STRUCTURES	CU YD	381.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	406.4
50300260	BRIDGE DECK GROOVING	SQ YD	1,156
50300300	PROTECTIVE COAT	SQ YD	1,578

* INDICATES SPECIAL PROVISION
 + INDICATES SPECIALTY ITEMS

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REVISION	DATE	BY	REMARKS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



SUMMARY OF QUANTITIES
SHEET 1 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	3
WHA* 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	88.9
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	8.980
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	253.070
50800515	BAR SPLICERS	EACH	492
+ 50900105	ALUMINUM RAILING, TYPE L	FOOT	623
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	880
51202305	DRIVING PILES	FOOT	848
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
51602000	PERMANENT CASING	FOOT	372
* 51603000	DRILLED SHAFT IN SOIL	CU YD	326.8
* 51604000	DRILLED SHAFT IN ROCK	CU YD	64
52100520	ANCHOR BOLTS, 1"	EACH	20

* INDICATES SPECIAL PROVISION
+ INDICATES SPECIALTY ITEMS

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
52100530	ANCHOR BOLTS, 1 1/4"	EACH	40
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	172
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	55
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	40
60108501	PIPE UNDERDRAINS, TYPE 3	FOOT	904
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	122
+ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	412.5
+ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
+ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
+ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	773
67100100	MOBILIZATION	L SUM	1
+ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

* INDICATES SPECIAL PROVISION
+ INDICATES SPECIALTY ITEMS

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REVISION	DATE	BY	REMARKS

DESIGNED CBG
DRAWN GBG
REVIEWED GFS
APPROVED GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



WILLET HOFMANN & ASSOCIATES, INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 609 EAST 2ND STREET, DODD, IL 61021-0367
 T: 815-294-3381 DESIGN FIRM # 04-000918

SUMMARY OF QUANTITIES
SHEET 2 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	4
WHA* 1247013		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
+ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,300
+ 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	13
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
# * Z0076600	TRAINEES	HOUR	1,000
# * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000
* X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	1,838
* X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	8
+* X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	10
* X0327638	STREAM GAUGE	EACH	1
* X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	750
+ * X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.31
* X2600022	REMOVE, STORE AND RE-ERECT SIGN PANEL ASSEMBLY (SPECIAL)	EACH	4
* X2810210	STONE RIPRAP, CLASS A5 (SPECIAL)	TON	557
* X2810212	STONE RIPRAP, CLASS A6 (SPECIAL)	TON	2,816
* X4023000	TEMPORARY ACCESS (ROAD)	EACH	1

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
* X5211435	MULTI-ROTATIONAL BEARINGS, DISC, FIXED-700K	EACH	5
* X5211635	MULTI-ROTATIONAL BEARINGS, DISC, GUIDED EXPANSION-700K	EACH	5
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* INDICATES SPECIAL PROVISION
 + INDICATES SPECIALTY ITEMS
 # 0042

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REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

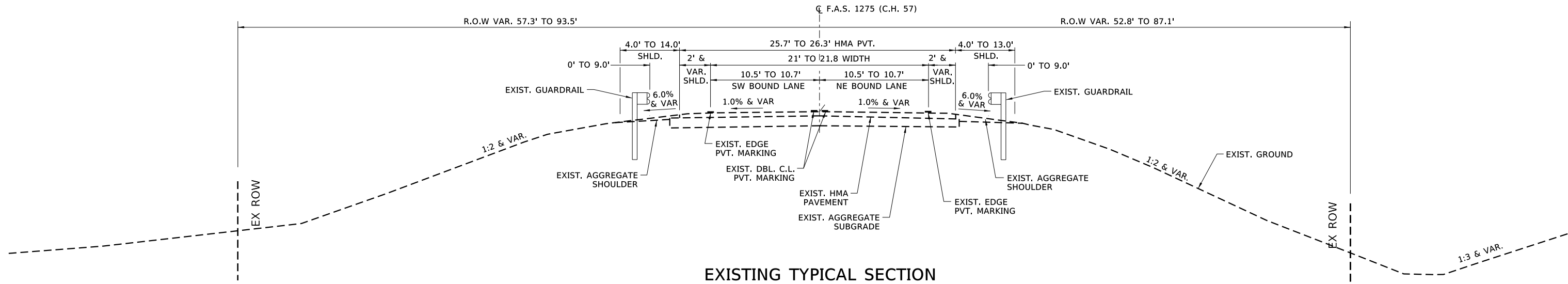
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



SUMMARY OF QUANTITIES
SHEET 3 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	5
WHA* 1247D13			CONTRACT NO. 87673	
[ILLINOIS] FED. AID PROJECT				

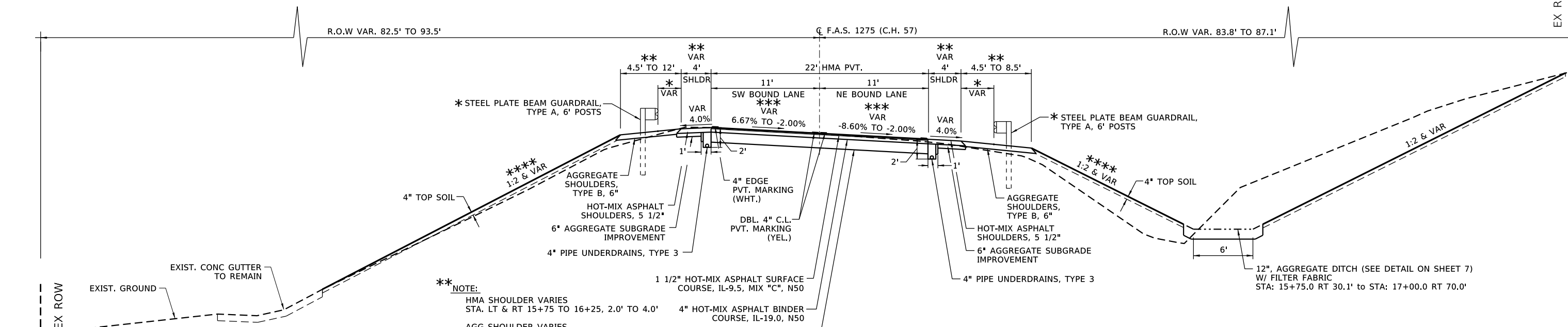
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EXISTING TYPICAL SECTION

F.A.S. 1275 (C.H. 57)

STA: 15+75.00 to STA: 18+14.00
AND
STA: 21+86.00 to STA: 24+00.00



PROPOSED TYPICAL SECTION

F.A.S. 1275 (C.H. 57)

SUPER ELEVATION
STA: 15+75.00 to STA: 17+50.00

**HOT-MIX ASPHALT PAVEMENT
STRUCTURAL DESIGN
F.A.S. 1275 (C.H. 57)**

STRUCTURAL DESIGN TRAFFIC (S.D.T) = YEAR 2032
CLASS IV STREET

USE			
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N50	P.V	88%	309 ADT
4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-50	S.U	9%	
12" AGGREGATE SUB-GRADE IMPROVEMENT	M.U	3%	

- * NOTE:**
STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS
CONNECTIONS TO EXISTING AT: STA: 15+67.3 RT 17.0' & STA: 15+68.7 LT 16.9'
- GUARDRAIL VARIES:**
- STA: 15+67.3 RT 17.0' to STA: 17+92.3 RT 15.4'
- STA: 15+68.7 LT 16.9' to STA: 16+18.7 LT 17.2'
- STA: 17+17.3 LT 15.5' to STA: 17+92.3 LT 15.4'
- TRAFFIC BARRIER TERMINAL, TYPE 1**
- STA: 16+18.7 LT 17.2' to STA: 16+51.4 LT 22.1'
- STA: 16+84.0 LT 19.4' to STA: 17+17.3 LT 15.2'

- ** NOTE:**
HMA SHOULDER VARIES
STA. LT & RT 15+75 TO 16+25, 2.0' TO 4.0'
- AGG SHOULDER VARIES**
STA. LT 15+58 TO 16+25, 6.0' TO 7.0'
STA. RT 15+66 TO 16+25, 5.3' TO 8.0'
- SHOULDER WIDTHS ARE TYPICAL AND SHALL MATCH EXISTING CONDITION AT STA. LT 15+58 AND STA. RT 15+66.**
- *** NOTE:**
SUPERELEVATION
THE SUPERELEVATION ENDS AT STA. 17+50 AND MEETS THE EXISTING CONDITION AT STA. 15+75.
SHOULDER SLOPES VARY TO REMAIN UNDER THE MAXIMUM ROLL-OVER FACTOR OF 10%.
- **** NOTE:**
FRONT & BACK SLOPES VARY, SEE CROSS SECTION SHEETS FOR FURTHER INFORMATION.

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



TYPICAL SECTIONS

SHEET 1 OF 2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	6
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

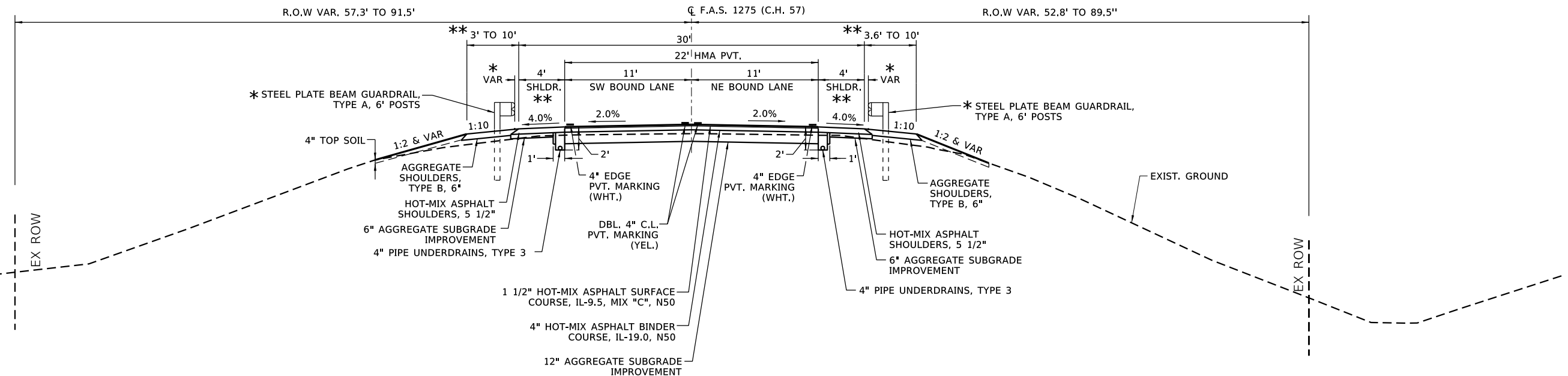
- * NOTE:**
 STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS
 GUARDRAIL VARIES:
 - STA: 22+07.7 RT 15.4' to STA: 22+32.7 RT 15.5'
 - STA: 22+07.7 LT 15.4' to STA: 23+07.7 LT 15.5'
- TRAFFIC BARRIER TERMINAL, TYPE 6
 - STA: 17+92.3 RT 15.4' to STA: 18+29.8 RT 15.4'
 - STA: 17+92.3 LT 15.4' to STA: 18+29.8 LT 15.4'
 - STA: 21+70.2 RT 15.4' to STA: 22+07.7 RT 15.4'
 - STA: 21+70.2 LT 15.4' to STA: 22+07.7 LT 15.4'
- TRAFFIC BARRIER TERMINAL, TYPE 1
 - STA: 22+32.7 RT 15.5' to STA: 22+66.0 RT 19.6'
 - STA: 23+07.7 LT 15.5' to STA: 23+41.0 LT 19.3'

- ** NOTE:**
 HMA SHOULDER VARIES
 STA. LT & RT 23+50 TO 24+00, 2.0' TO 4.0'
- AGG SHOULDER VARIES
 STA. LT 23+50 TO 23+84, 3.0' TO 10.0'
 STA. RT 23+50 TO 24+00, 3.6' TO 4.0'
- SHOULDER WIDTHS ARE TYPICAL AND SHALL
 MATCH EXISTING CONDITION AT STA. 24+00.0.

HOT-MIX ASPHALT PAVEMENT STRUCTURAL DESIGN F.A.S. 1275 (C.H. 57)

STRUCTURAL DESIGN TRAFFIC (S.D.T) = YEAR 2032
 CLASS IV STREET

USE				
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N50	P.V	88%	} 309 ADT	
4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-50	S.U	9%		
12" AGGREGATE SUB-GRADE IMPROVEMENT	M.U	3%		



**PROPOSED TYPICAL SECTION
 F.A.S. 1275 (C.H. 57)**

STA: 17+50.00 to STA: 18+14.00
 AND
 STA: 21+86.00 to STA: 24+00.00

BRIDGE & APPROACH PAVEMENT
 OMITED FROM
 STA: 18+14.00 to 21+86.00

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

**LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00**

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

TYPICAL SECTIONS	
SHEET 2 OF 2	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	7
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410* (Cu Yd)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25% (Cu Yd)	CHANNEL EXCAVATION 20300100 (Cu Yd)	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE 80% (Cu Yd)	EMBANKMENT (Cu Yd)	EARTH BALANCE WASTE (+) OR FURNISHED EXCAVATION (-) 20400800 (Cu Yd)
F.A.S.1275 (C.H. 57)	750	562	3,962	792	563	791
TOTALS	750		3,962			791

TREE REMOVAL, ACRES

STATION	ACRE	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+66.0 to 18+50.0	0.32	
LT 15+75.0 to 18+65.0	0.33	
LT 20+80.0 to 23+80.0	0.11	
RT 20+75.0 to 22+45.0	0.09	
PROJECT TOTAL	0.85	
20100500		

REMOVAL AND DISPOSAL OF UNSITABLE MATERIAL

STATION	CU YD	REMARKS
F.A.S. 1275 (C.H. 57)		
ENTIRE PROJECT	110	10% OF PAVED AREA - 2' DEPTH CONTINGENCY
PROJECT TOTAL	110	
20201200		

TOPSOIL FURNISH AND PLACE, 4"

STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+66.0 to 18+33.2	1,674	4" DEPTH
LT 15+58.0 to 18+33.2	1,618	4" DEPTH
LT 21+66.8 to 23+87.1	516	4" DEPTH
RT 21+66.8 to 24+00.0	539	4" DEPTH
PROJECT TOTAL	4,347	
21101615		

EROSION CONTROL BLANKET

STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+66.0 to 18+33.2	1,674	
LT 15+58.0 to 18+33.2	1,618	
LT 21+66.8 to 23+87.1	516	
RT 21+66.8 to 24+00.0	539	
TEMP ACCESS ROAD (NORTH) 100+15.9 to 107+25.5	1,887	FULL RESTORATION
PROJECT TOTAL	6,234	

SCHEDULE OF QUANTITIES

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+66.0 to 18+33.2	35	
LT 15+58.0 to 18+33.2	34	
LT 21+66.8 to 23+87.1	11	
RT 21+66.8 to 24+00.0	12	
TEMP ACCESS ROAD (NORTH) 100+15.9 to 107+25.5	39	FULL RESTORATION 100 LBS / ACRE
PROJECT TOTAL	131	
28000250		

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 16+13.9 (90.8') to 16+59.2 (89.1')	45	
LT 16+70.5 (89.6') to 18+90.0 (92.5')	220	
RT 17+25.0 (84.2') to 18+60.0 (89.3')	135	
RT 21+25.1 (47.8') to 24+00.0 (75.3')	275	
LT 21+25.1 (50.1') to 23+75.0 (71.1')	250	
TEMP ACCESS ROAD (NORTH) RT to LT 100+15.9	105	
PROJECT TOTAL	1,030	
28000400		

STONE RIPRAP, CLASS A4

STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 17+97.7 to 18+03.7	60	SE QUAD - SLOPE STABILITY (16" MIN)
LT 17+97.7 to 18+17.8	60	SW QUAD - SLOPE STABILITY (16" MIN)
RT 21+82.8 to 21+88.8	30	NE QUAD - SLOPE STABILITY (16" MIN)
LT 21+82.8 to 21+88.8	30	NW QUAD - SLOPE STABILITY (16" MIN)
RT 22+14.0 to 22+20.0	30	NE QUAD - SLOPE STABILITY (16" MIN)
LT 22+14.0 to 22+20.0	30	NW QUAD - SLOPE STABILITY (16" MIN)
PROJECT TOTAL	240	
28100207		

FILTER FABRIC

STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+75.0 (30.1') to 17+00.0 (70.0')	139	AGGREGATE DITCH
PROJECT TOTAL	139	
28200200		

AGGREGATE DITCH

STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+75.0 (30.1') to 17+00.0 (70.0')	119	6FT WIDE DITCH BOTTOM
PROJECT TOTAL	119	
28300400		

AGGREGATE SUBGRADE IMPROVEMENT

STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 18+04.2	390	12" & 3" - HMA ROADWAY (CS01 & CM06)
RT 15+75.0 to 18+04.2	30	6" - HMA SHOULDER (CM06)
LT 15+75.0 to 16+53.7	9	6" - HMA SHOULDER (CM06)
LT 16+80.44 to 18+04.2	17	6" - HMA SHOULDER (CM06)
18+04.2 to 18+14.2	23	12" & 3" - HMA CONNECTOR (CS01 & CM06)
21+85.9 to 21+95.9	23	12" & 3" - HMA CONNECTOR (CS01 & CM06)
21+95.9 to 24+00.0	346	12" & 3" - HMA ROADWAY (CS01 & CM06)
RT 21+95.9 to 24+00.0	26	6" - HMA SHOULDER (CM06)
LT 21+95.9 to 24+00.0	27	6" - HMA SHOULDER (CM06)
PROJECT TOTAL	891	CM06 - 2.05 TON / CU YD CS01 - 1.4 TON / CU YD
* 30300011		

AGGREGATE SURFACE COURSE, TYPE B

STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 16+65.0	56	FIELD ENTRANCE (8" THICKNESS) 2.05 TON / CU YD
PROJECT TOTAL	56	
40200800		

BITUMINOUS MATERIALS (PRIME COAT)

STATION	POUND	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 18+04.2	1,259	MAINLINE - ON AGG BASE
RT 15+75.0 to RT 18+04.2	220	SHOULDER - ON AGG BASE
LT 15+75.0 to LT 16+53.7	65	SHOULDER - ON AGG BASE
LT 16+80.44 to LT 18+04.2	122	SHOULDER - ON AGG BASE
18+04.2 to 18+14.2	75	CONNECTOR - ON AGG BASE
21+85.9 to 21+95.9	75	CONNECTOR - ON AGG BASE
21+95.9 to 24+00.0	1,116	MAINLINE - ON AGG BASE
RT 21+95.9 to 24+00.0	193	SHOULDER - ON AGG BASE
LT 21+95.9 to 24+00.0	200	SHOULDER - ON AGG BASE
PROJECT TOTAL	3,325	0.25 LBS / SQ FT
40600275		

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REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



SCHEDULE OF QUANTITIES

SHEET 1 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	8
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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SCHEDULE OF QUANTITIES

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUND	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 18+04.2	126	MAINLINE - ON HMA
RT 15+75.0 to RT 18+04.2	22	SHOULDER - ON HMA
LT 15+75.0 to LT 16+53.7	6	SHOULDER - ON HMA
LT 16+80.44 to LT 18+04.2	13	SHOULDER - ON HMA
18+04.2 to 18+14.2	8	CONNECTOR - ON HMA
21+85.9 to 21+95.9	8	CONNECTOR - ON HMA
21+95.9 to 24+00.0	112	MAINLINE - ON HMA
RT 21+95.9 to 24+00.0	20	SHOULDER - ON HMA
LT 21+95.9 to 24+00.0	20	SHOULDER - ON HMA
		0.025 LBS / SQ FT
PROJECT TOTAL	335	
40600290		

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		
STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 18+04.2	132	DEPTH 4.0"
21+95.9 to 24+00.0	117	DEPTH 4.0"
		112 LBS / SQ YD / INCH
PROJECT TOTAL	249	
40603080		

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50		
STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 18+04.2	49	DEPTH 1.5"
21+95.9 to 24+00.0	44	DEPTH 1.5"
		112 LBS / SQ YD / INCH
PROJECT TOTAL	93	
40604050		

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB		
STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
18+04.2 to 18+14.2	34	SOUTH APPROACH
21+85.9 to 21+95.9	34	NORTH APPROACH
PROJECT TOTAL	68	
42000070		

PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75 to 18+41	773	SOUTH APPROACH
21+59 to 24+00	705	NORTH APPROACH
PROJECT TOTAL	1,478	
44000100		

AGGREGATE SHOULDERS, TYPE B		
STATION	TON	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 15+58.2 to 16+61.2	31	DEPTH 6"
LT 16+73.0 to 18+43.2	34	DEPTH 6"
RT 15+66.0 to 18+43.2	53	DEPTH 6"
RT 21+56.9 to 24+00.0	40	DEPTH 6"
LT 21+56.9 to 23+84.2	37	DEPTH 6"
		2.05 TON / CU YD
PROJECT TOTAL	195	
48101200		

HOT-MIX ASPHALT SHOULDERS, 5 1/2"		
STATION	SQ YD	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+75.0 to RT 18+04.2	98	
LT 15+75.0 to LT 16+53.7	29	
LT 16+80.44 to LT 18+04.2	54	
RT 21+95.9 to 24+00.0	86	
LT 21+95.9 to 24+00.0	89	
PROJECT TOTAL	356	
48203019		

CONCRETE HEADWALLS FOR PIPE DRAINS		
STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
21.5' RT 18+00.0	1	SAG CONDITION OUTLET
21.5' LT 18+00.0	1	SAG CONDITION OUTLET
21.5' RT 22+17.0	1	SAG CONDITION OUTLET
21.5' LT 22+17.0	1	SAG CONDITION OUTLET
PROJECT TOTAL	4	
60100060		

PIPE UNDERDRAINS 4" (SPECIAL)		
STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
11.5' to 21.5' RT 18+00.0	10	OUTLET PIPE
11.5' to 21.5' LT 18+00.0	10	OUTLET PIPE
11.5' to 21.5' RT 22+17.0	10	OUTLET PIPE
11.5' to 21.5' LT 22+17.0	10	OUTLET PIPE
PROJECT TOTAL	40	
60108100		

PIPE UNDERDRAINS, TYPE 3		
STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+75 to 18+11	239	2' NOMINAL DEPTH
LT 15+75 to 18+11	239	2' NOMINAL DEPTH
RT 21+89 to 24+00	213	2' NOMINAL DEPTH
LT 21+89 to 24+00	213	2' NOMINAL DEPTH
PROJECT TOTAL	904	
60108501		

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+67.3 to 17+92.3	225.0	18 - (12.5' SECTIONS)
LT 15+68.9 to 16+06.4	37.5	3 - (12.5' SECTIONS)
LT 17+17.3 to 17+92.3	62.5	5 - (12.5' SECTIONS)
LT 22+07.7 to 22+95.2	87.5	7 - (12.5' SECTIONS)
PROJECT TOTAL	412.5	
63000001		

TRAFFIC BARRIER TERMINAL, TYPE 6		
STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 17+92.3 to 18+29.8	1	SE QUADRANT
LT 17+92.3 to 18+29.8	1	SW QUADRANT
RT 21+70.2 to 22+07.7	1	NE QUADRANT
LT 21+70.2 to 22+07.7	1	NW QUADRANT
		CONNECT TO TYPE F CONV BRIDGE RAIL
PROJECT TOTAL	4	
63100085		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 22+07.7 to 22+59.2	1	
LT 22+95.2 to 23+46.7	1	
PROJECT TOTAL	2	
63100167		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED		
STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 16+06.4 to 16+57.4	1	
LT 16+78.5 to 17+29.8	1	
PROJECT TOTAL	2	
63100169		

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



SCHEDULE OF QUANTITIES

SHEET 2 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	9
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

GUARDRAIL REMOVAL

STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+67.3 to 18+47.3	280	
LT 15+68.7 to 16+45.7	77	
LT 16+87.5 to 18+47.5	160	
RT 21+53.0 to 23+25.0	172	
LT 21+53.0 to 22+37.0	84	
PROJECT TOTAL	773	
63200310		

TERMINAL MARKER - DIRECT APPLIED

STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 16+57.4	1	TYPE 1 (SPECIAL)
LT 16+78.5	1	TYPE 1 (SPECIAL)
RT 22+59.2	1	TYPE 1 (SPECIAL)
LT 23+46.7	1	TYPE 1 (SPECIAL)
PROJECT TOTAL	4	
72501000		

PAINT PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
F.A.S. 1275 (C.H. 57)		
15+75.0 to 24+00.0	1,650	DOUBLE YELLOW CENTER-LINE
RT 15+75.0 to 24+00.0	825	SOLID WHITE EDGE LINE
LT 15+75.0 to 24+00.0	825	SOLID WHITE EDGE LINE
PROJECT TOTAL	3,300	
78001110		

GUARDRAIL REFLECTORS, TYPE B

STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
LT 15+69.3 to 16+57.4	2	MATCH EXISTING REFLECTOR SPACING WHEN CONNECTING TO AN EXISTING SECTION. FOLLOW THE SPACING REQUIREMENTS PER IDOT STANDARD 782006-01, AND AS DIRECTED BY THE ENGINEER.
RT 15+67.3 to 18+29.2	4	
LT 16+78.5 to 18+29.2	2	
RT 21+70.8 to 22+59.2	2	
LT 21+70.8 to 23+46.7	3	
PROJECT TOTAL	13	
78200006		

LINEAR DELINEATOR PANELS, 6 INCH

STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 18+29.2 to 21+70.8	5	BRIDGE RAIL / PARAPET WALL
LT 18+29.2 to 21+70.8	5	BRIDGE RAIL / PARAPET WALL
PROJECT TOTAL	10	
* X0326649		

SEEDING, CLASS 2 (SPECIAL)

STATION	ACRE	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 15+66.0 to 18+33.2	0.35	
LT 15+58.0 to 18+33.2	0.34	
LT 21+66.8 to 23+87.1	0.11	
RT 21+66.8 to 24+00.0	0.12	
F.A.S. 1275 (C.H. 57)		
100+15.9 to 107+25.5	0.39	FULL RESTORATION
PROJECT TOTAL	1.31	
* X2501000		

REMOVE, STORE AND RE-ERECT SIGN PANEL ASSEMBLY (SPECIAL)

STATION	EACH	REMARKS
F.A.S. 1275 (C.H. 57)		
RT 18+22.6 (21.0')	1	RED-WHITE-BLUE BRIDGE
RT 18+31.6 (17.9')	1	HORIZONTAL ALIGNMENT (W1-2)
LT 21+67.2 (19.8')	1	ORIGINAL CONCRETE BRIDGE SIGN
LT 21+88.6 (22.3')	1	RED-WHITE-BLUE BRIDGE
PROJECT TOTAL	4	
* X2600022		

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FILE - S:\PROJECTS\2013\1247013-LCH57\DESIGN\CAD SHEETS\1247013-Schedule of Quantities.dgn

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



SCHEDULE OF QUANTITIES

SHEET 3 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	10
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				

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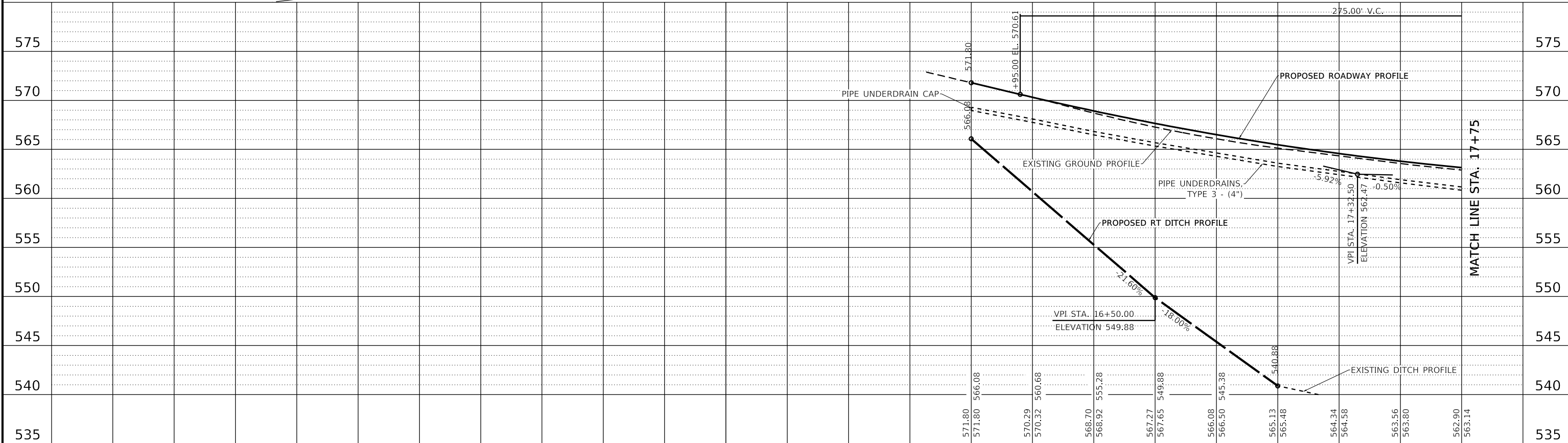
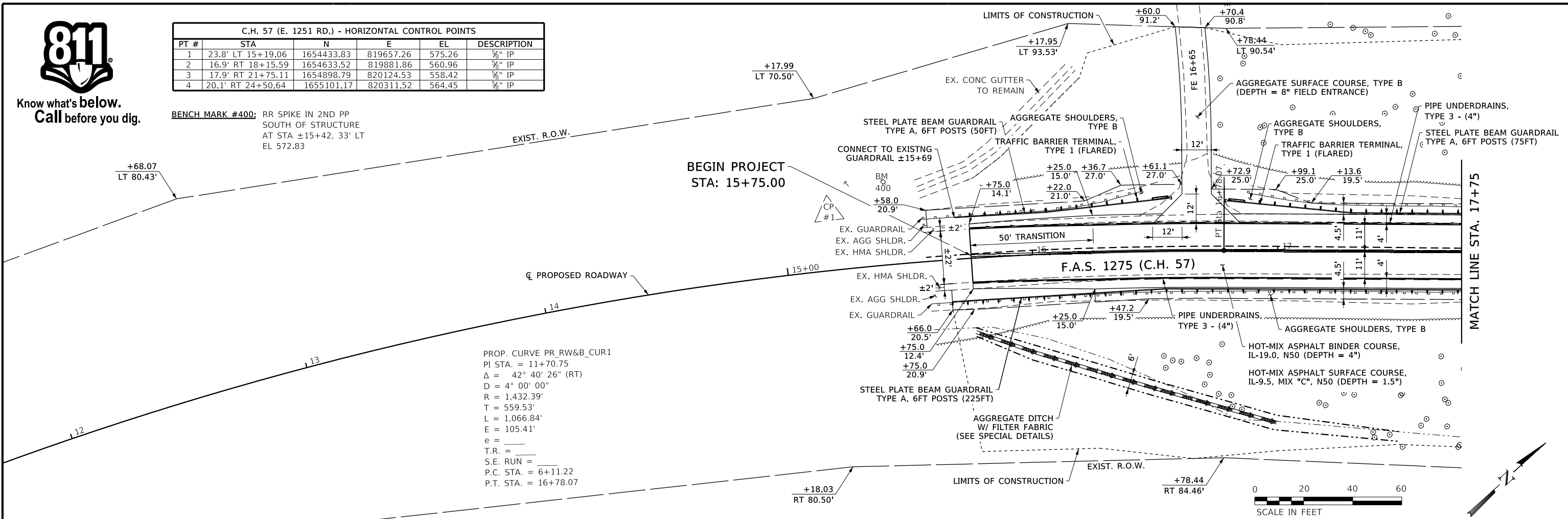


Know what's below.
Call before you dig.

C.H. 57 (E. 1251 RD.) - HORIZONTAL CONTROL POINTS					
PT #	STA	N	E	EL	DESCRIPTION
1	23.8' LT 15+19.06	1654433.83	819657.26	575.26	3/4" IP
2	16.9' RT 18+15.59	1654633.52	819881.86	560.96	3/4" IP
3	17.9' RT 21+75.11	1654898.79	820124.53	558.42	3/4" IP
4	20.1' RT 24+50.64	1655101.17	820311.52	564.45	3/4" IP

BENCH MARK #400: RR SPIKE IN 2ND PP SOUTH OF STRUCTURE AT STA ±15+42, 33' LT EL 572.83

PROP. CURVE PR_RW&B_CUR1
 PI STA. = 11+70.75
 $\Delta = 42^\circ 40' 26''$ (RT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 559.53'$
 $L = 1,066.84'$
 $E = 105.41'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 6+11.22$
 $P.T. STA. = 16+78.07$



REVISION	DATE	BY	REMARKS

DESIGNED	GFS
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00

PLAN & PROFILE
 STA: 15+80 - 17+75
 SHEET 1 OF 4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	11
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

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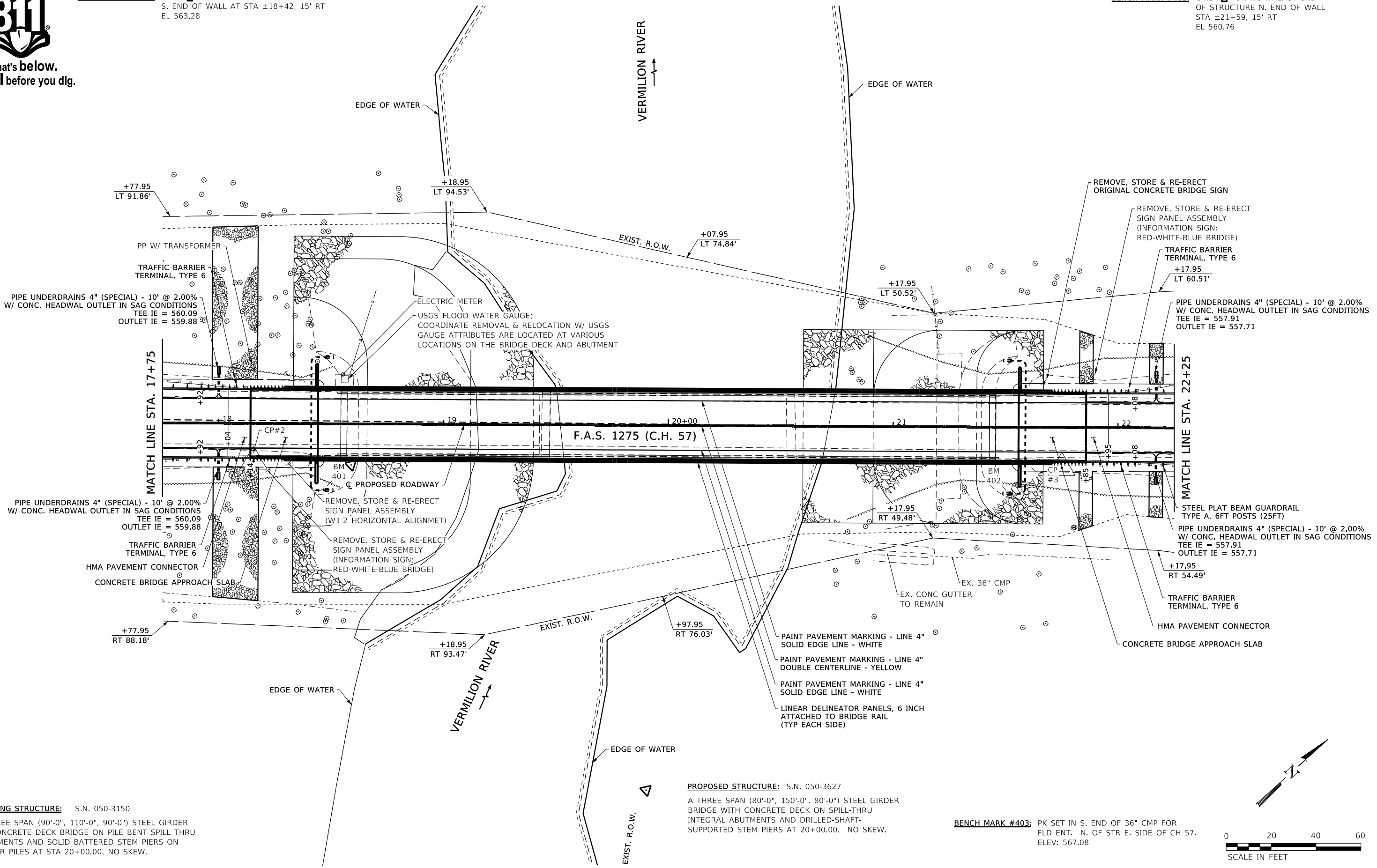
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Know what's below.
Call before you dig.

BENCH MARK #401: CHIS "□" ON SOUTHEAST END OF STRUCTURE
S. END OF WALL AT STA ±18+42, 15' RT
EL 563.28

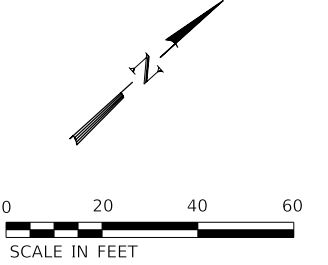
BENCH MARK #402: CHIS "□" ON NORTHEAST END
OF STRUCTURE N. END OF WALL
STA ±21+59, 15' RT
EL 560.76



EXISTING STRUCTURE: S.N. 050-3150
A THREE SPAN (90'-0", 110'-0", 90'-0") STEEL GIRDER
W/ CONCRETE DECK BRIDGE ON PILE BENT SPILL THRU
ABUTMENTS AND SOLID BATTERED STEM PIERS ON
TIMBER PILES AT STA 20+00.00. NO SKEW.

PROPOSED STRUCTURE: S.N. 050-3627
A THREE SPAN (80'-0", 150'-0", 80'-0") STEEL GIRDER
BRIDGE WITH CONCRETE DECK ON SPILL-THRU
INTEGRAL ABUTMENTS AND DRILLED-SHAFT-
SUPPORTED STEM PIERS AT 20+00.00. NO SKEW.

BENCH MARK #403: PK SET IN S. END OF 36" CMP FOR
FLD ENT. N. OF STR E. SIDE OF CH 57.
ELEV: 567.08



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REVISION	DATE	BY	REMARKS

DESIGNED	GFS
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

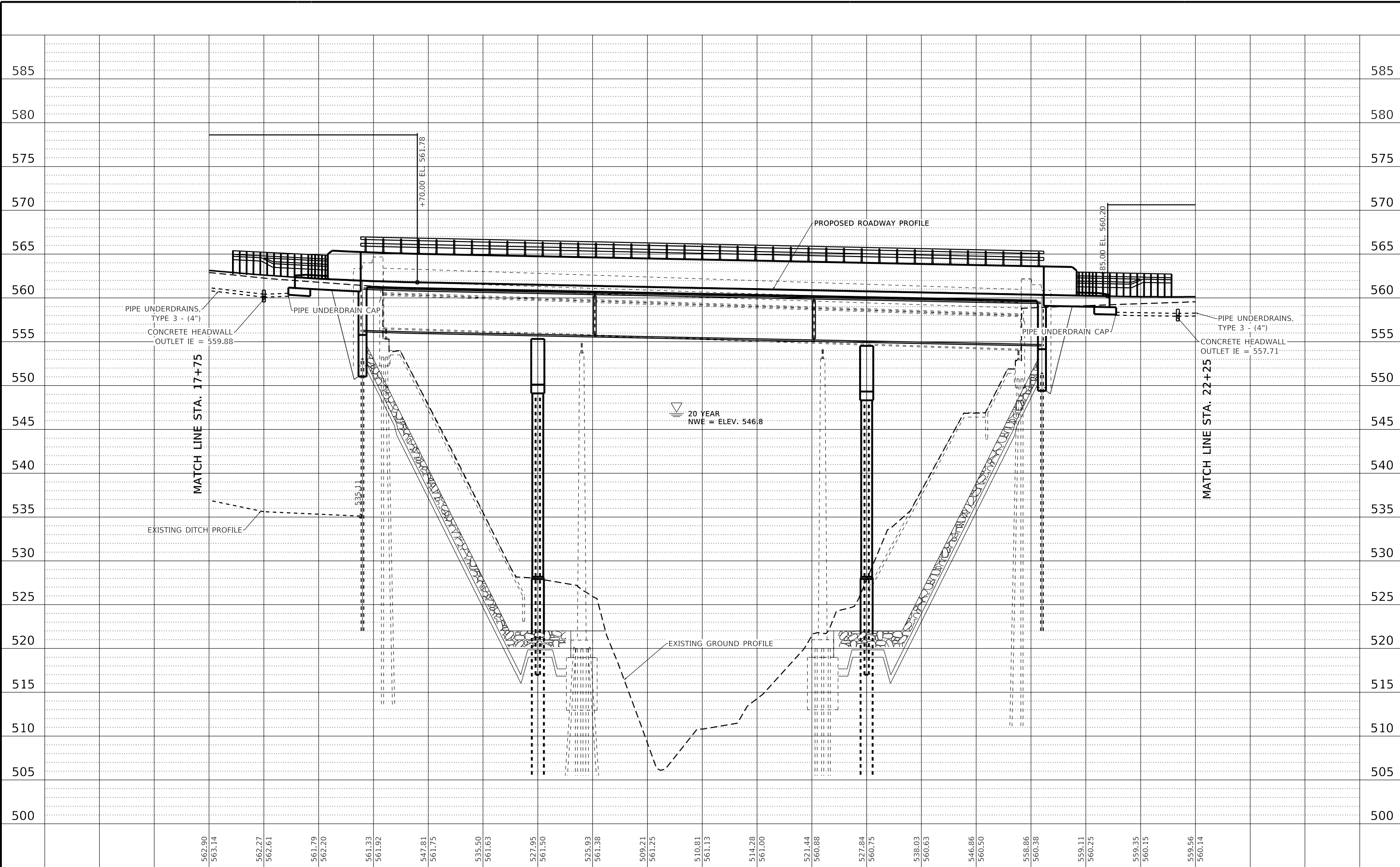
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



PLAN VIEW
STA: 17+75 - 22+25
SHEET 2 OF 4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	12
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	GFS
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY	
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER	
STATION 20+00.00	

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

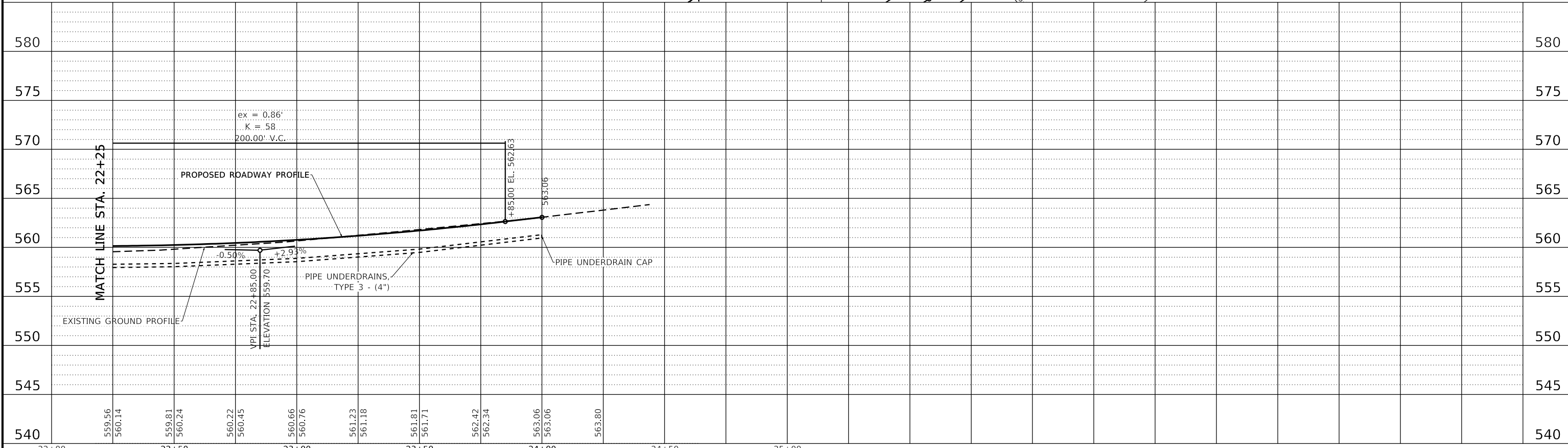
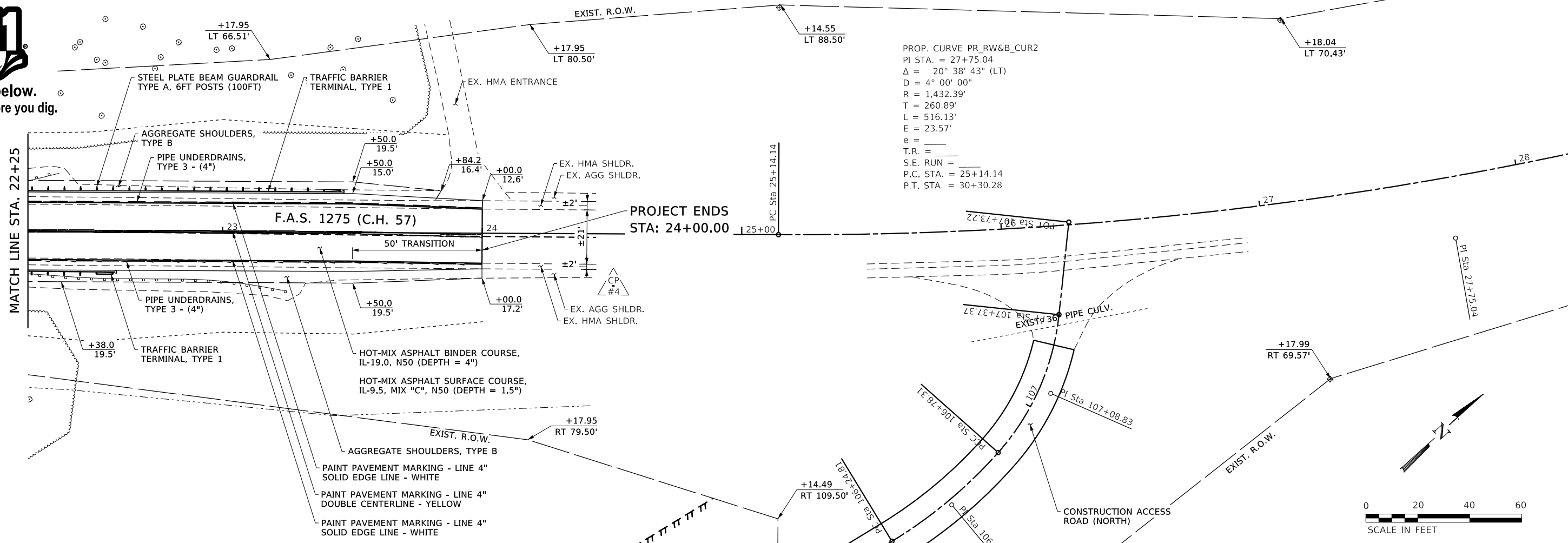
PROFILE VIEW	
STA: 17+75 - 22+25	
SHEET 3 OF 4	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	13
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	GFS
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



PLAN & PROFILE
STA: 22+25 - 24+00

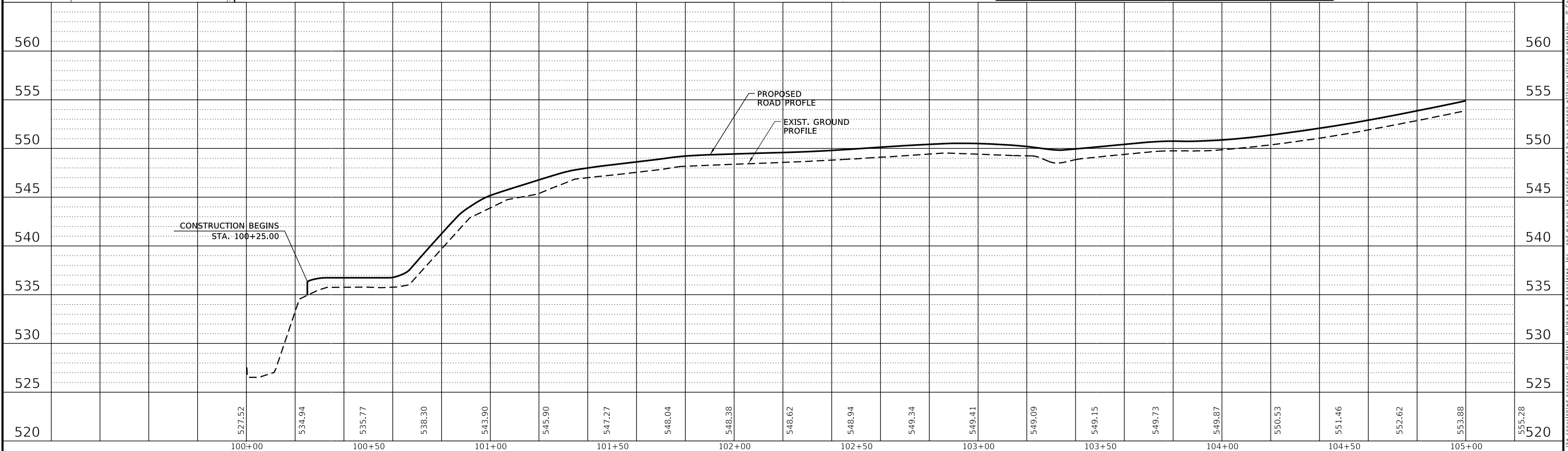
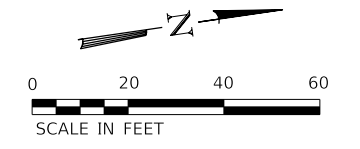
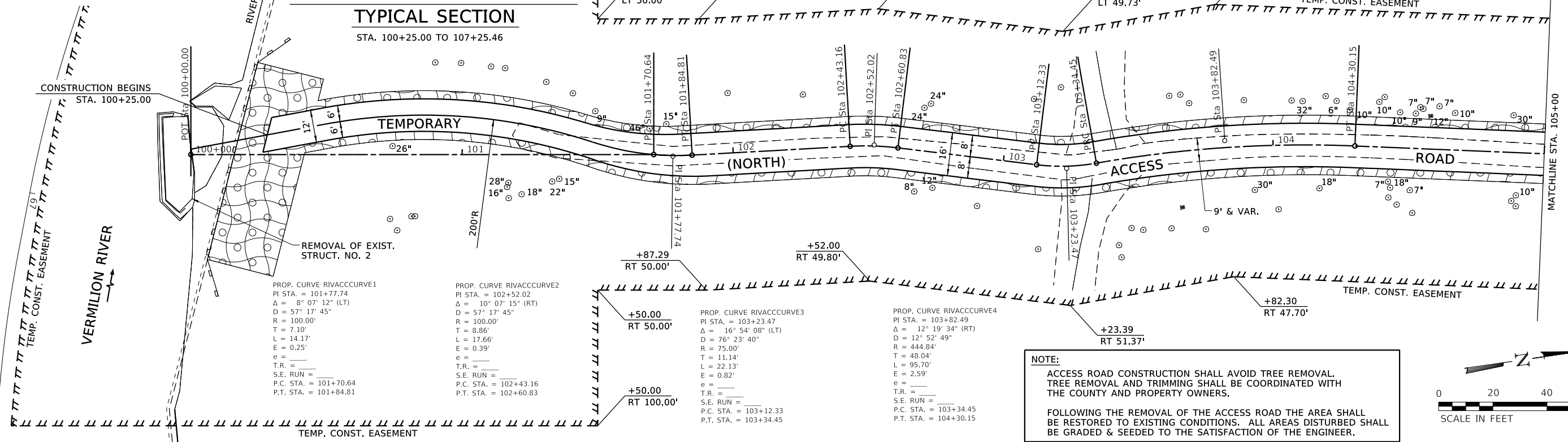
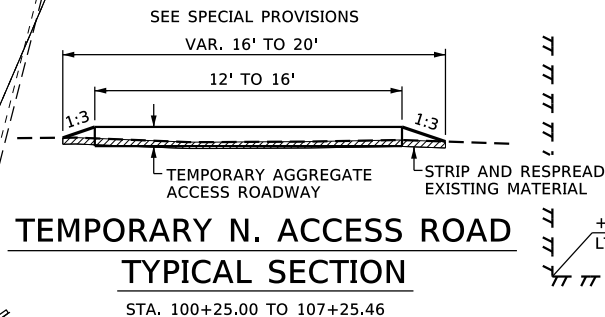
SHEET 4 OF 4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	14
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

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LEGEND

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A (SPECIAL)
- EROSION CONTROL BLANKET



REVISION	DATE	BY	REMARKS

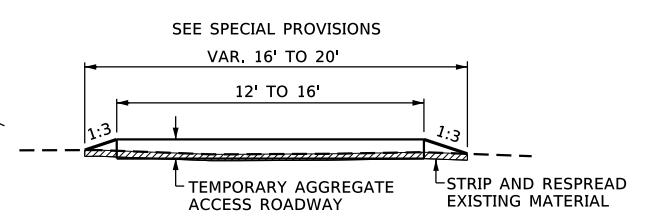
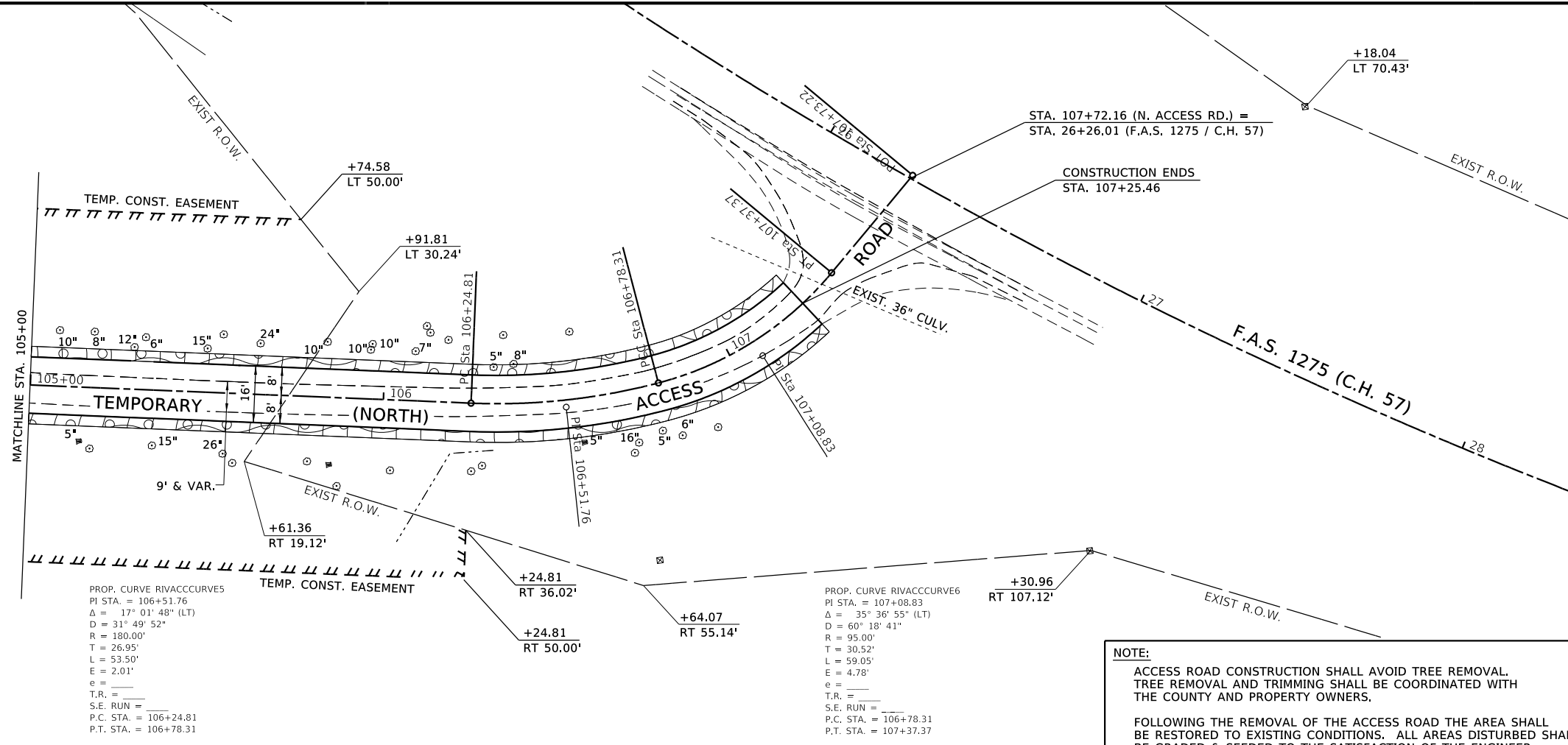
DESIGNED	CFS
DRAWN	GBG
REVIEWED	CFS
APPROVED	CFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

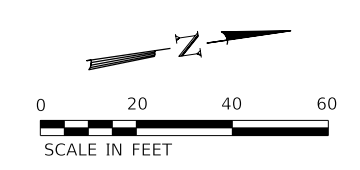
PLAN AND PROFILE
TEMPORARY ACCESS ROAD (NORTH)
SHEET 1 OF 2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	15
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

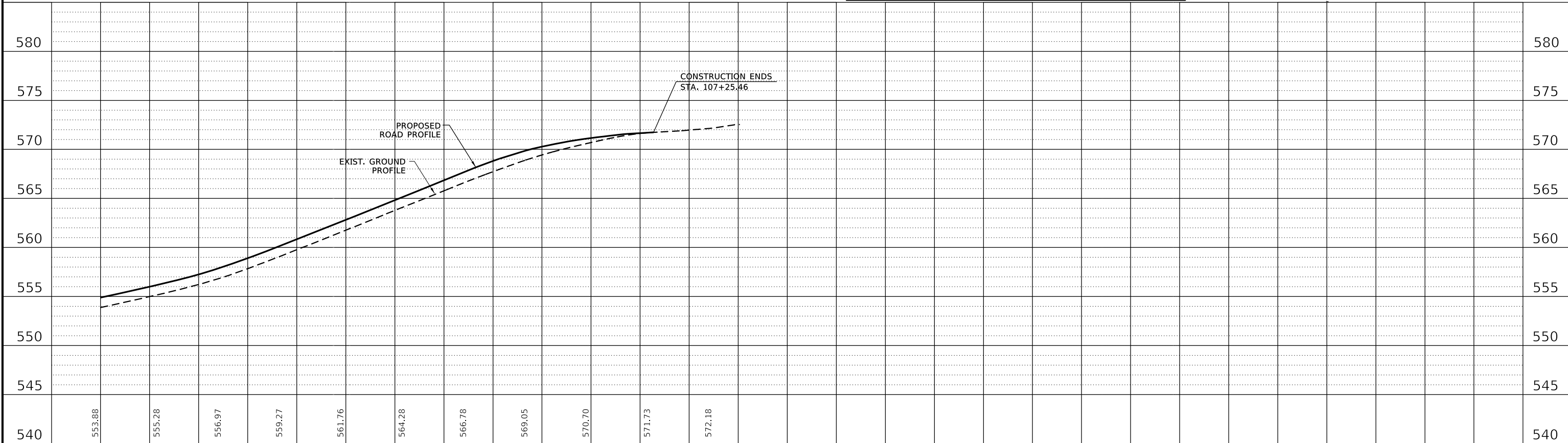


**TEMPORARY N. ACCESS ROAD
TYPICAL SECTION**
 STA. 100+25.00 TO 107+25.46

- LEGEND**
- PERIMETER EROSION BARRIER
 - SEEDING, CLASS 2A (SPECIAL)
 - EROSION CONTROL BLANKET



NOTE:
 ACCESS ROAD CONSTRUCTION SHALL AVOID TREE REMOVAL. TREE REMOVAL AND TRIMMING SHALL BE COORDINATED WITH THE COUNTY AND PROPERTY OWNERS.
 FOLLOWING THE REMOVAL OF THE ACCESS ROAD THE AREA SHALL BE RESTORED TO EXISTING CONDITIONS. ALL AREAS DISTURBED SHALL BE GRADED & SEED TO THE SATISFACTION OF THE ENGINEER.



REVISION	DATE	BY	REMARKS	DESIGNED	CFS	DRAWN	GBG	REVIEWED	CFS	APPROVED	CFS

LASALLE COUNTY		WILLETT HOFMANN & ASSOCIATES INC	
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER		ENGINEERING ARCHITECTURE LAND SURVEYING	
STATION 20+00.00		809 EAST 2ND STREET, DIXON, IL 61021-0367	
		T: 815-284-3381 DESIGN FIRM: #184-000918	

PLAN AND PROFILE		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TEMPORARY ACCESS ROAD (NORTH)		1275	15-00760-00-BR	LASALLE	59	16
SHEET 2 OF 2		WHA# 1247D13		CONTRACT NO. 87673		ILLINOIS FED. AID PROJECT

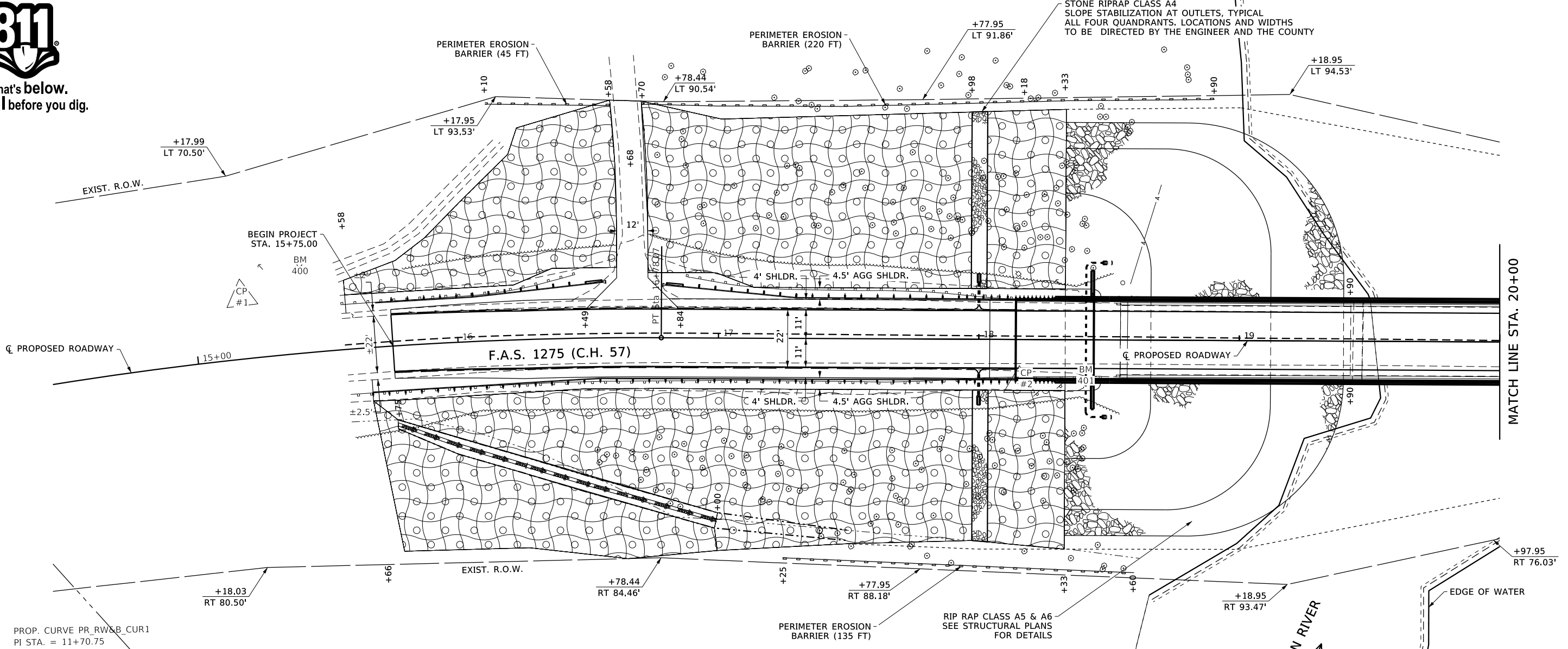
BENCH MARK #400: RR SPIKE IN 2ND PP
SOUTH OF STRUCTURE
AT STA ±15+42, 33' LT
EL 572.83

BENCH MARK #401: CHIS "□" ON SOUTHEAST END OF STRUCTURE
S. END OF WALL AT STA ±18+42, 15' RT
EL 563.28

C.H. 57 (E. 1251 RD.) - HORIZONTAL CONTROL POINTS					
PT #	STA	N	E	EL	DESCRIPTION
1	23.8' LT 15+19.06	1654433.83	819657.26	575.26	3/4" IP
2	16.9' RT 18+15.59	1654633.52	819881.86	560.96	3/4" IP
3	17.9' RT 21+75.11	1654898.79	820124.53	558.42	3/4" IP
4	20.1' RT 24+50.64	1655101.17	820311.52	564.45	3/4" IP



Know what's below.
Call before you dig.



PROP. CURVE PR_RWB_CUR1
PI STA. = 11+70.75
Δ = 42° 40' 26" (RT)
D = 4° 00' 00"
R = 1,432.39'
T = 559.53'
L = 1,066.84'
E = 105.41'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 6+11.22
P.T. STA. = 16+78.07

LEGEND

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A (SPECIAL)
- EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4
- AGG. DITCH W/ FILTER FABRIC

NOTES:

- 1) ANY AREAS DISTURBED BY CONSTRUCTION, AND LEFT DISTURBED FOR SEVEN (7) DAYS SHALL BE TEMPORARY SEEDED AND BLANKETED.

EXISTING STRUCTURE: S.N. 050-3150
A THREE SPAN (90'-0", 110'-0", 90'-0") STEEL GIRDER
W/ CONCRETE DECK BRIDGE ON PILE BENT SPILL THRU
ABUTMENTS AND SOLID BATTERED STEM PIERS ON
TIMBER PILES AT STA 20+00.00. NO SKEW.

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

EROSION CONTROL PLAN
STA: 15+80 - 20+00
SHEET 1 OF 3

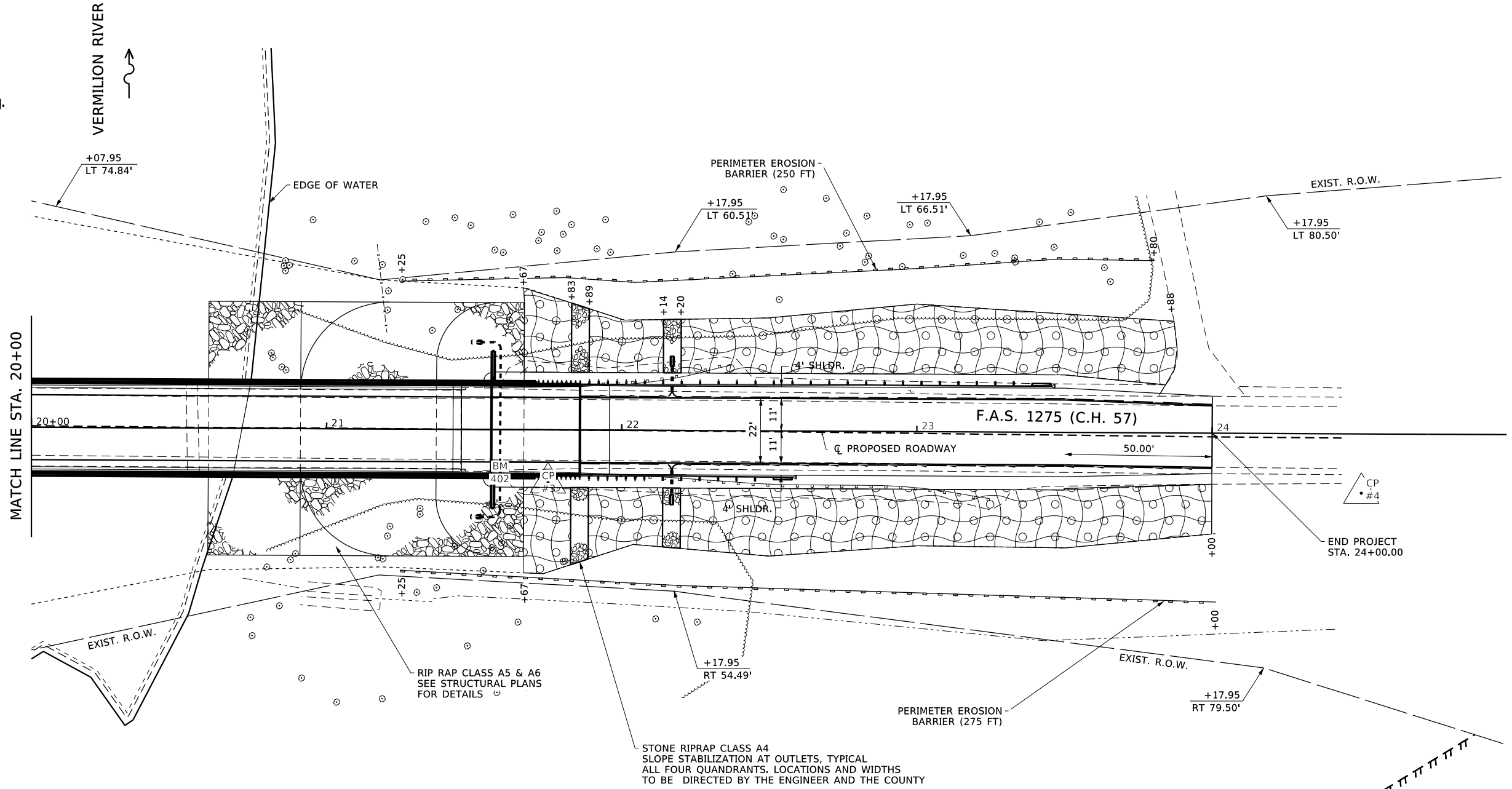
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	17
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

BENCH MARK #402: CHIS "□" ON NORTHEAST END OF STRUCTURE N. END OF WALL
 STA ±21+59, 15' RT
 EL 560.76



Know what's below.
 Call before you dig.

VERMILION RIVER



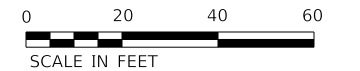
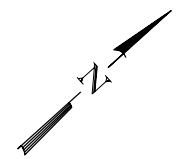
LEGEND

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A (SPECIAL)
- EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4
- AGG. DITCH W/ FILTER FABRIC

NOTES:

- 1) ANY AREAS DISTURBED BY CONSTRUCTION, AND LEFT DISTURBED FOR SEVEN (7) DAYS SHALL BE TEMPORARY SEEDED AND BLANKETED.

BENCH MARK #403: PK SET IN S. END OF 36" CMP FOR FLD ENT. N. OF STR E. SIDE OF CH 57.
 ELEV: 567.08



REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

EROSION CONTROL PLAN
STA: 20+00 - 24+00
SHEET 2 OF 3

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	18
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF A BRIDGE REPLACEMENT ON F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER, ROAD & APPROACH ROADWAY WORK THERETO.
2. CONSTRUCTION INCLUDES EARTH EXCAVATION, ENTRANCES, CHANNEL EXCAVATION, VARIOUS PAVEMENT ITEMS, BRIDGE STRUCTURE AND SUPERSTRUCTRE, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. EARTH EXCAVATION.
2. CHANNEL EXCAVATION.
3. FURNISHED EXCAVATION.
4. STRUCTURE REMOVAL & CONSTRUCTION
5. ROADWAY AGGREGATE BASE AND SHOULDERS
6. PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING AND RIP RAP.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 5.50 ACRES OF WHICH 3.75 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

VERMILION RIVER

CONTROLS – EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION.

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, PERIMETER EROSION BARRIER, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - (A) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.

- (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
 - (D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
 - (E) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADIACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
 - (B) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.
 - (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - (D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
 - (E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - (F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - (G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.
 - (H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY IDOT'S FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



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

EROSION CONTROL PLAN
SWPPP NARRATIVE

SHEET 3 OF 3

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	19
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

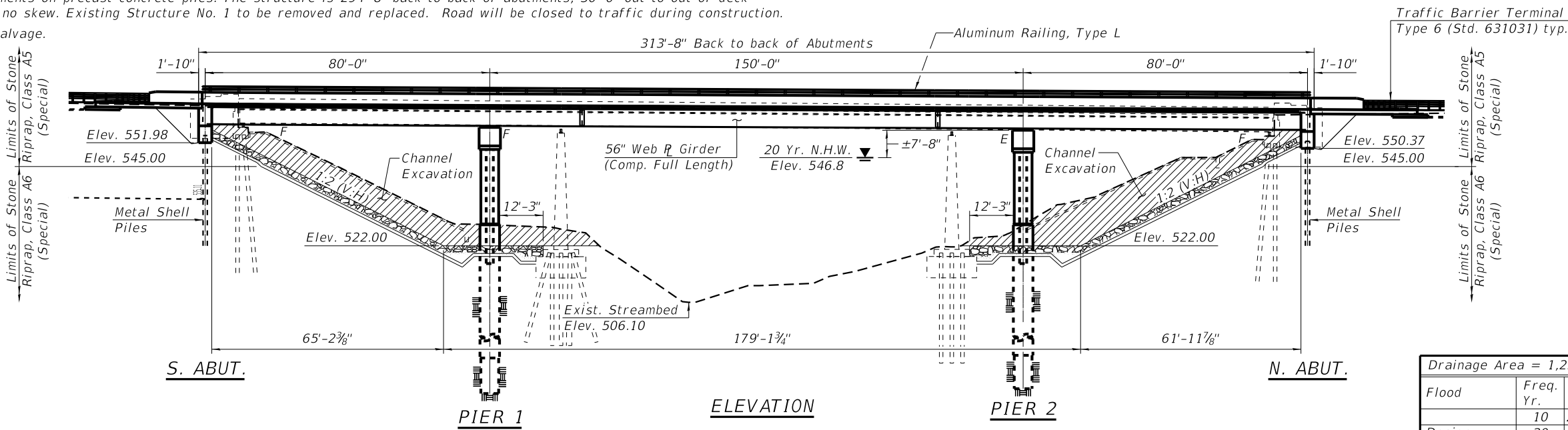
PRINT_ORGANIZER-BW.plt 11/11/2022 11:52:58 AM - PLOTTED

Existing Structure: S.N. 050-3150 built in 1969 as County Highway 57, Section 57-65B. The existing structure is a three span (90'-0": 110'-0": 90'-0") 46" welded plate girder bridge on footing supported piers on timber piles and stub abutments on precast concrete piles. The structure is 294'-8" back to back of abutments, 30'-0" out to out of deck with no skew. Existing Structure No. 1 to be removed and replaced. Road will be closed to traffic during construction. No Salvage.

Bench Mark: Chiseled "□" on SE end of structure, S end of wall of S.N. 050-3150. Elev. 563.28

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Riprap and Pile Layout
- 4-5 Top of Slab Elevations
- 6-7 Top of Approach Slab Elevations
- 8 Superstructure
- 9 Superstructure Details
- 10 Aluminum Railing, Type L
- 11 Diaphragm Details
- 12-13 Bridge Approach Slab Details
- 14 Structural Steel Details
- 15 Framing Plan
- 16-17 Bearing Details
- 18-19 Abutment Details
- 20-23 Pier Details
- 24 Metal Shell Pile Details
- 25-31 Soil Boring Logs



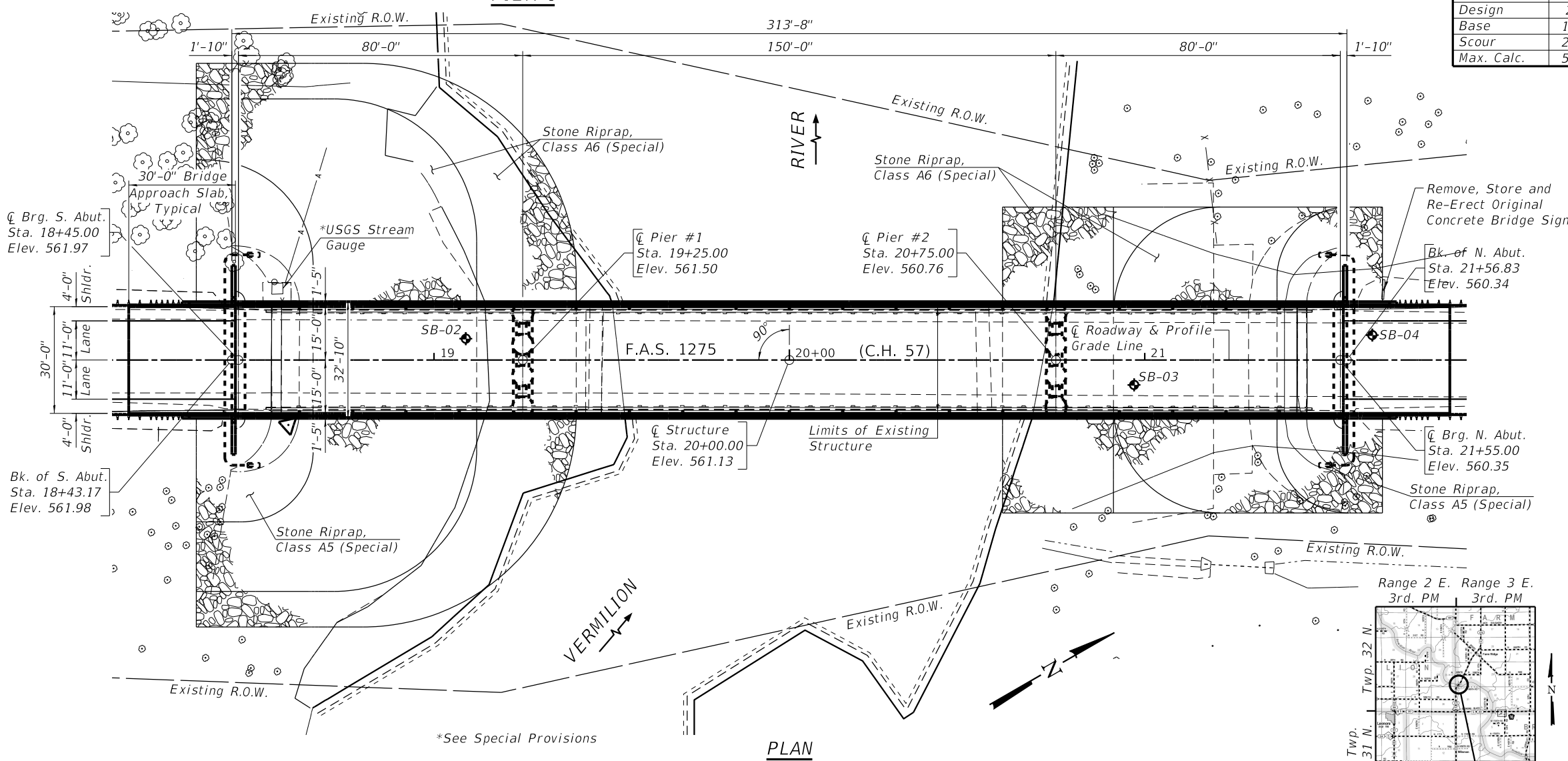
WATERWAY INFORMATION

Drainage Area = 1,250 Sq. Mi. Low Grade Elev. 560.13 @ Sta. 22+14.17

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	24,700	4,536	5,353	545.0	0.2	0.1	545.2	545.1
Base	100	29,500	4,955	5,829	546.8	0.2	0.1	547.0	546.9
Scour	200	39,500	5,685	6,625	549.7	0.2	0.1	549.9	549.8
Max. Calc.	500	44,000	5,998	6,964	550.9	0.2	0.1	551.1	551.0
			6,291	7,279	552.0	0.2	0.1	552.2	552.1

DESIGN SCOUR ELEVATION TABLE

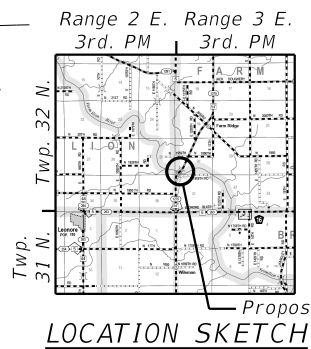
Event / Limit	Design Scour Elevations (ft.)				
	S. Abut.	Pier 1	Pier 2	N. Abut.	Item 113
Q100	551.02	510.48	510.48	549.40	5
Q200	551.02	510.12	510.12	549.40	
Design	551.02	510.48	510.48	549.40	
Check	551.02	510.12	510.12	549.40	
State					



DATE: 11-11-2022
EXPIRES 11/30/24

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE 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 LRFD HIGHWAY BRIDGE SPECIFICATIONS'."

GENERAL PLAN AND ELEVATION
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
SECTION 15-00760-00-BR
LASALLE COUNTY
STATION 20+00.00
STRUCTURE NO. 050-3627



PLAN

*See Special Provisions

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



STRUCTURAL SHEET 1 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	20
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

FILE = S:\PROJECTS\2013\1247D13.LCH57.DESIGN\CAD SHEETS\1247D13.GPE.dgn

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DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi (Substructure)
 $f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Gr. 50W)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.101
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.168
Soil Site Class = D

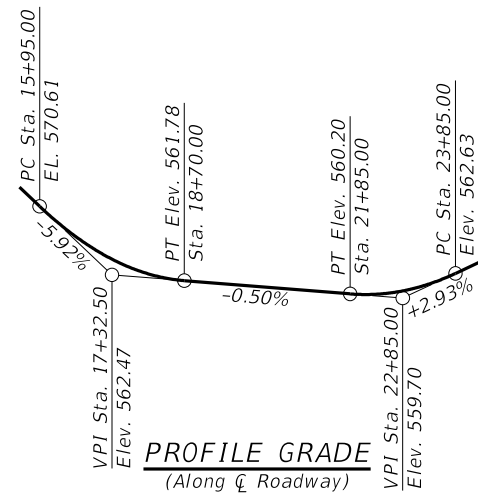
GENERAL NOTES:

Fasteners shall be ASTM F3125 Grade A325 to size specified on Structural sheet 14 of 31.
Splicer bolts shall be as specified per Framing Plan sheet.
Calculated weight of Structural Steel (L. Sum) = 467,771 lbs. (Grade 50W), and 4,299 (Bolts, Nuts & Washers)
All bearings and cross frames shall be AASHTO M 270 Grade 50W.
All plate girder flanges, webs, splicer plates and bearing stiffeners shall be AASHTO M 270 Grade 50W.
Surface preparation and blast-cleaning of weathering steel shall be as specified per Article 506.07 and the Framing Plan sheet.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
No field welding is permitted except as specified in the contract documents.
Reinforcement bars designated (E) shall be epoxy coated.
If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Slipforming Parapet is not allowed.
To minimize or avoid potential adverse impacts, the Department recommends the measures described below be included as commitments in the NRR.
Recommendation 1: Records and suitable habitat for the state listed Greater Redhorse (*Moxostoma valenciennesi*) and River Redhorse (*Moxostoma carinatum*) occur in this stream. To avoid impacts to this species and disturbance during the primary spawning season, the Department recommends no instream work occur from April 1st through May 31st.

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yd	3,962		3,962
* Removal of Existing Structures No. 1	Each			1
* Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu Yd	475		475
Floor Drains	Each	34		34
Concrete Structures	Cu Yd	19.2	362.2	381.4
Concrete Superstructure	Cu Yd	406.4		406.4
Bridge Deck Grooving	Sq Yd	1,156		1,156
Protective Coat	Sq Yd	1,578		1,578
Concrete Superstructure (Approach Slab)	Cu Yd	88.9		88.9
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	8,980		8,980
Reinforcement Bars, Epoxy Coated	Pound	110,520	142,550	253,070
Bar Splicers	Each		492	492
Aluminum Railing, Type L	Foot	623		623
Furnishing Metal Shell Piles 14"x0.250"	Each		880	880
Driving Piles	Each		848	848
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Permanent Casing	Foot		372	372
* Drilled Shaft In Soil	Cu Yd		326.8	326.8
* Drilled Shaft In Rock	Cu Yd		64	64
Anchor Bolts, 1"	Each		20	20
Anchor Bolts, 1 1/4"	Each		40	40
Granular Backfill For Structures	Cu Yd		172	172
Geocomposite Wall Drain	Sq Yd		55	55
Concrete Headwalls for Pipe Drains	Each		4	4
Pipe Underdrains For Structures 4"	Foot		122	122
Crosshole Sonic Logging Access Ducts	Foot		1,838	1,838
Crosshole Sonic Logging Testing	Each		8	8
* Stream Gauge	Each		1	1
* Stone Riprap, Class A5 (Special)	Ton		557	557
* Stone Riprap, Class A6 (Special)	Ton		2,816	2,816
* Multi-Rotational Bearings, Disk, Fixed, 700K	Each		5	5
* Multi-Rotational Bearings, Disk, Guided Expansion, 700K	Each		5	5

* See Special Provisions



VERMILION RIVER
BUILT 2023 BY
LASALLE COUNTY
SECTION 15-00760-00-BR
F.A.S. RT. 1275 STA. 20+00
STR. NO. 050-3627 LOADING HL-93

NAME PLATE LETTERING

GENERAL DATA
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
SECTION 15-00760-00-BR
LASALLE COUNTY
STATION 20+00.00
STRUCTURE NO. 050-3627

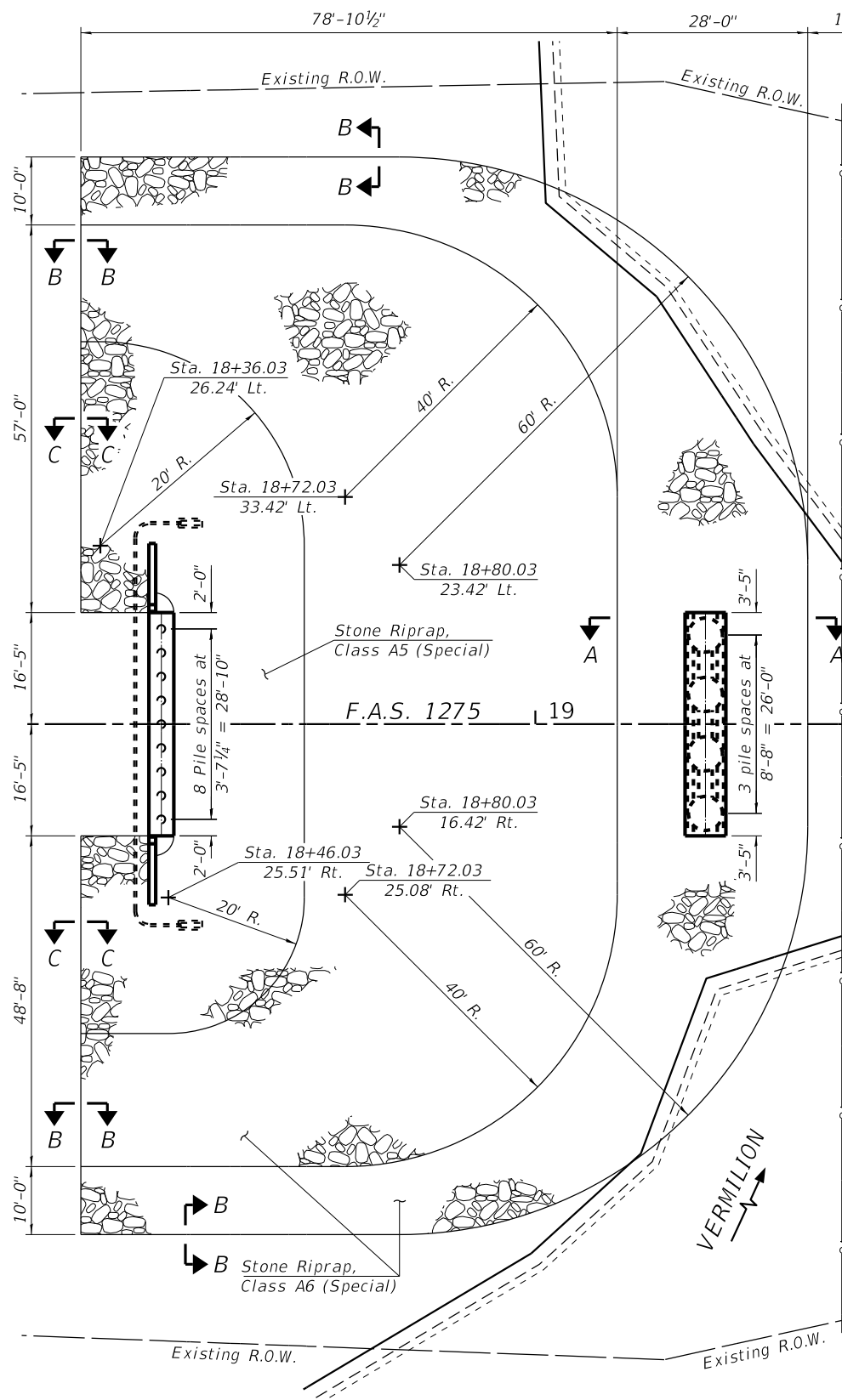
REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



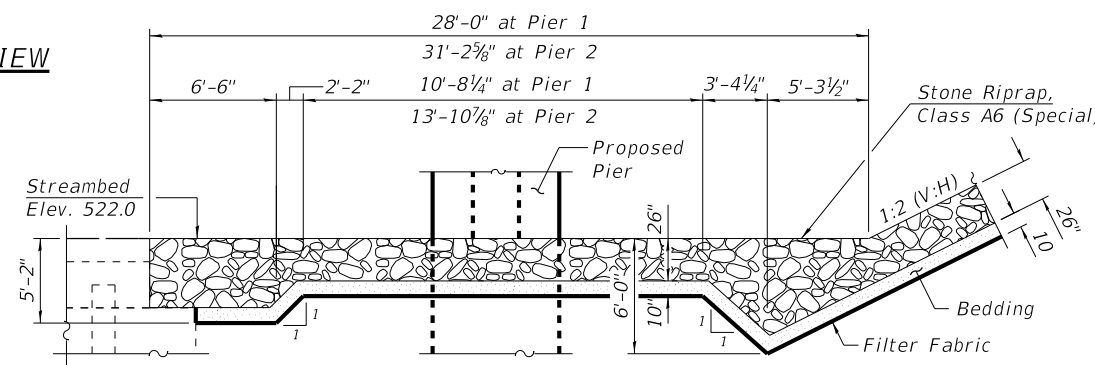
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	21
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				



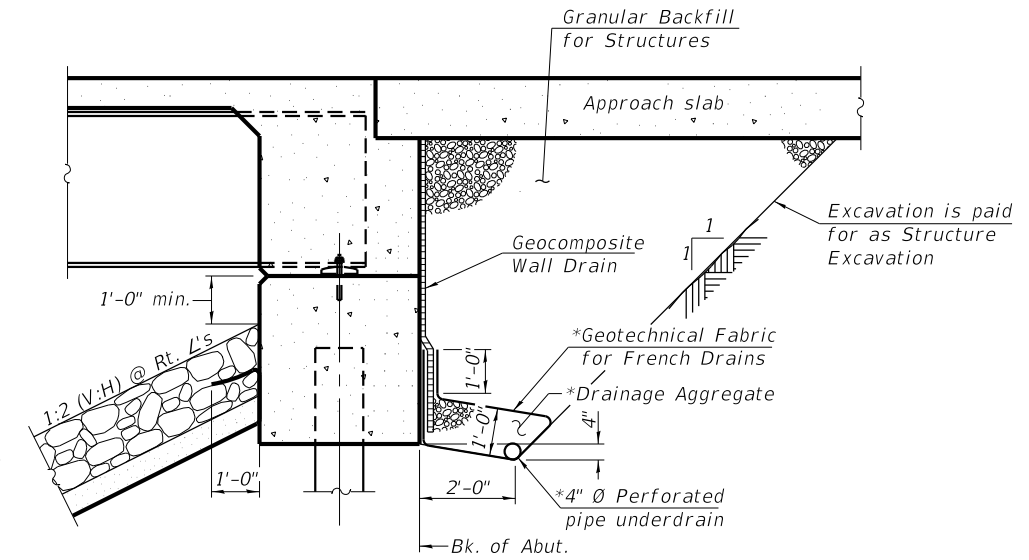
RIVER

VERMILION

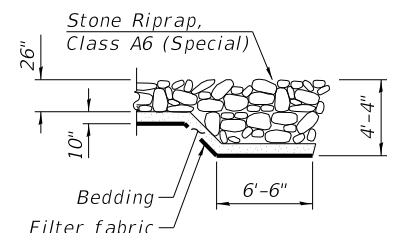
PLAN VIEW



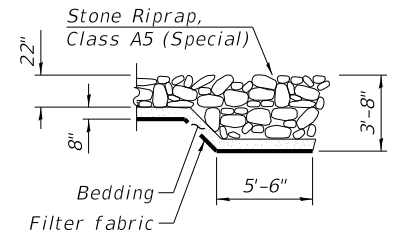
SECTION A-A
(Pier 2 Shown, Pier 1 Similar)



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Headwalls for Pipe Drains	Each	4
Pipe Underdrain for Structures, 4"	Foot	122
Stone Riprap, Class A5 (Special)	Ton	557
Stone Riprap, Class A6 (Special)	Ton	2,816

NOTES:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall be placed as shown above. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions).

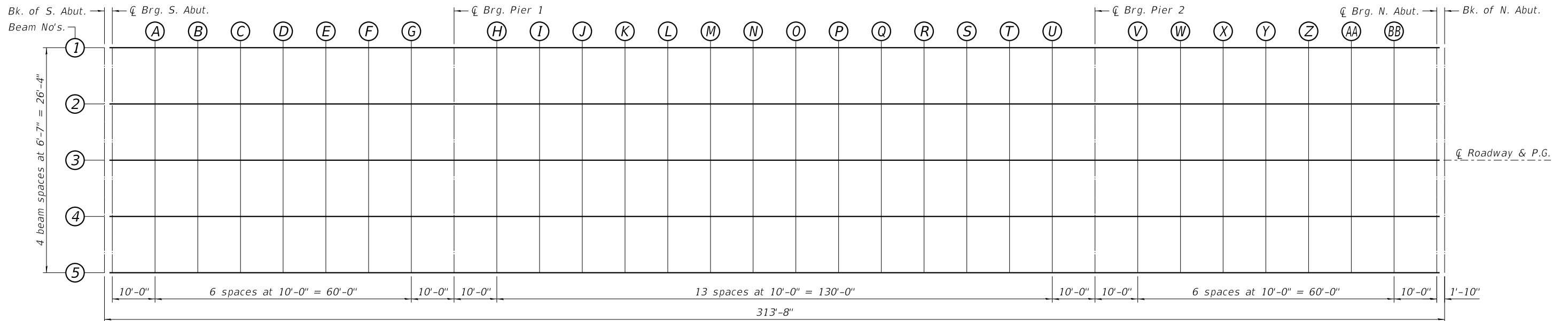
REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

RIPRAP AND PILE LAYOUT
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 3 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	22
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				



BEAM 1

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	18+43.17	13.17	561.77	561.77
Q Brg. S. Abut.	18+45.00	13.17	561.75	561.75
A	18+55.00	13.17	561.66	561.66
B	18+65.00	13.17	561.59	561.59
C	18+75.00	13.17	561.53	561.53
D	18+85.00	13.17	561.48	561.47
E	18+95.00	13.17	561.43	561.42
F	19+05.00	13.17	561.38	561.37
G	19+15.00	13.17	561.33	561.32
Q Brg. Pier 1	19+25.00	13.17	561.28	561.28
H	19+35.00	13.17	561.23	561.25
I	19+45.00	13.17	561.18	561.23
J	19+55.00	13.17	561.13	561.22
K	19+65.00	13.17	561.08	561.21
L	19+75.00	13.17	561.03	561.19
M	19+85.00	13.17	560.98	561.16
N	19+95.00	13.17	560.93	561.12
O	20+05.00	13.17	560.88	561.07
P	20+15.00	13.17	560.83	561.01
Q	20+25.00	13.17	560.78	560.94
R	20+35.00	13.17	560.73	560.86
S	20+45.00	13.17	560.68	560.77
T	20+55.00	13.17	560.63	560.68
U	20+65.00	13.17	560.58	560.60
Q Brg. Pier 2	20+75.00	13.17	560.53	560.53
V	20+85.00	13.17	560.48	560.47
W	20+95.00	13.17	560.43	560.42
X	21+05.00	13.17	560.38	560.37
Y	21+15.00	13.17	560.33	560.32
Z	21+25.00	13.17	560.28	560.28
AA	21+35.00	13.17	560.23	560.23
BB	21+45.00	13.17	560.18	560.18
Q Brg. N. Abut.	21+55.00	13.17	560.13	560.13
Bk. N. Abut.	21+56.83	13.17	560.12	560.12

BEAM 2

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	18+43.17	6.58	561.88	561.88
Q Brg. S. Abut.	18+45.00	6.58	561.87	561.87
A	18+55.00	6.58	561.78	561.78
B	18+65.00	6.58	561.71	561.70
C	18+75.00	6.58	561.65	561.64
D	18+85.00	6.58	561.60	561.58
E	18+95.00	6.58	561.55	561.53
F	19+05.00	6.58	561.50	561.48
G	19+15.00	6.58	561.45	561.44
Q Brg. Pier 1	19+25.00	6.58	561.40	561.40
H	19+35.00	6.58	561.35	561.37
I	19+45.00	6.58	561.30	561.35
J	19+55.00	6.58	561.25	561.33
K	19+65.00	6.58	561.20	561.32
L	19+75.00	6.58	561.15	561.30
M	19+85.00	6.58	561.10	561.27
N	19+95.00	6.58	561.05	561.24
O	20+05.00	6.58	561.00	561.19
P	20+15.00	6.58	560.95	561.12
Q	20+25.00	6.58	560.90	561.05
R	20+35.00	6.58	560.85	560.97
S	20+45.00	6.58	560.80	560.88
T	20+55.00	6.58	560.75	560.80
U	20+65.00	6.58	560.70	560.72
Q Brg. Pier 2	20+75.00	6.58	560.65	560.65
V	20+85.00	6.58	560.60	560.59
W	20+95.00	6.58	560.55	560.53
X	21+05.00	6.58	560.50	560.48
Y	21+15.00	6.58	560.45	560.44
Z	21+25.00	6.58	560.40	560.39
AA	21+35.00	6.58	560.35	560.34
BB	21+45.00	6.58	560.30	560.30
Q Brg. N. Abut.	21+55.00	6.58	560.25	560.25
Bk. N. Abut.	21+56.83	6.58	560.24	560.24

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	18+43.17	0.00	561.99	561.99
Q Brg. S. Abut.	18+45.00	0.00	561.97	561.97
A	18+55.00	0.00	561.88	561.88
B	18+65.00	0.00	561.81	561.81
C	18+75.00	0.00	561.75	561.74
D	18+85.00	0.00	561.70	561.69
E	18+95.00	0.00	561.65	561.63
F	19+05.00	0.00	561.60	561.58
G	19+15.00	0.00	561.55	561.54
Q Brg. Pier 1	19+25.00	0.00	561.50	561.50
H	19+35.00	0.00	561.45	561.47
I	19+45.00	0.00	561.40	561.45
J	19+55.00	0.00	561.35	561.44
K	19+65.00	0.00	561.30	561.42
L	19+75.00	0.00	561.25	561.40
M	19+85.00	0.00	561.20	561.38
N	19+95.00	0.00	561.15	561.34
O	20+05.00	0.00	561.10	561.29
P	20+15.00	0.00	561.05	561.23
Q	20+25.00	0.00	561.00	561.15
R	20+35.00	0.00	560.95	561.07
S	20+45.00	0.00	560.90	560.99
T	20+55.00	0.00	560.85	560.90
U	20+65.00	0.00	560.80	560.82
Q Brg. Pier 2	20+75.00	0.00	560.75	560.75
V	20+85.00	0.00	560.70	560.69
W	20+95.00	0.00	560.65	560.63
X	21+05.00	0.00	560.60	560.58
Y	21+15.00	0.00	560.55	560.54
Z	21+25.00	0.00	560.50	560.49
AA	21+35.00	0.00	560.45	560.45
BB	21+45.00	0.00	560.40	560.40
Q Brg. N. Abut.	21+55.00	0.00	560.35	560.35
Bk. N. Abut.	21+56.83	0.00	560.34	560.34

REVISION	DATE	BY	REMARKS

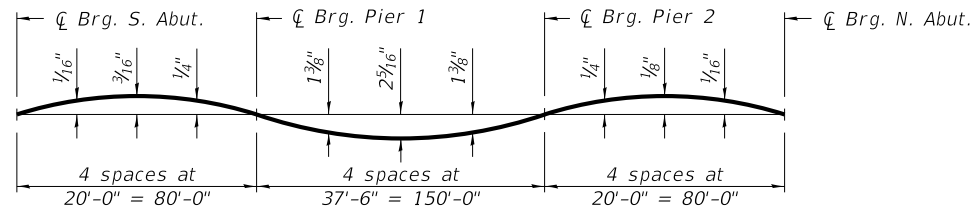
DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



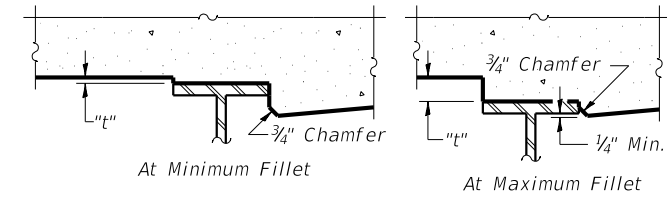
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 4 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	23
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 4

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	18+43.17	6.58	561.88	561.88
C Brg. S. Abut.	18+45.00	6.58	561.87	561.87
A	18+55.00	6.58	561.78	561.78
B	18+65.00	6.58	561.71	561.70
C	18+75.00	6.58	561.65	561.64
D	18+85.00	6.58	561.60	561.58
E	18+95.00	6.58	561.55	561.53
F	19+05.00	6.58	561.50	561.48
G	19+15.00	6.58	561.45	561.44
C Brg. Pier 1	19+25.00	6.58	561.40	561.40
H	19+35.00	6.58	561.35	561.37
I	19+45.00	6.58	561.30	561.35
J	19+55.00	6.58	561.25	561.33
K	19+65.00	6.58	561.20	561.32
L	19+75.00	6.58	561.15	561.30
M	19+85.00	6.58	561.10	561.27
N	19+95.00	6.58	561.05	561.24
O	20+05.00	6.58	561.00	561.19
P	20+15.00	6.58	560.95	561.12
Q	20+25.00	6.58	560.90	561.05
R	20+35.00	6.58	560.85	560.97
S	20+45.00	6.58	560.80	560.88
T	20+55.00	6.58	560.75	560.80
U	20+65.00	6.58	560.70	560.72
C Brg. Pier 2	20+75.00	6.58	560.65	560.65
V	20+85.00	6.58	560.60	560.59
W	20+95.00	6.58	560.55	560.53
X	21+05.00	6.58	560.50	560.48
Y	21+15.00	6.58	560.45	560.44
Z	21+25.00	6.58	560.40	560.39
AA	21+35.00	6.58	560.35	560.34
BB	21+45.00	6.58	560.30	560.30
C Brg. N. Abut.	21+55.00	6.58	560.25	560.25
Bk. N. Abut.	21+56.83	6.58	560.24	560.24

BEAM 5

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	18+43.17	13.17	561.77	561.77
C Brg. S. Abut.	18+45.00	13.17	561.75	561.75
A	18+55.00	13.17	561.66	561.66
B	18+65.00	13.17	561.59	561.59
C	18+75.00	13.17	561.53	561.53
D	18+85.00	13.17	561.48	561.47
E	18+95.00	13.17	561.43	561.42
F	19+05.00	13.17	561.38	561.37
G	19+15.00	13.17	561.33	561.32
C Brg. Pier 1	19+25.00	13.17	561.28	561.28
H	19+35.00	13.17	561.23	561.25
I	19+45.00	13.17	561.18	561.23
J	19+55.00	13.17	561.13	561.22
K	19+65.00	13.17	561.08	561.21
L	19+75.00	13.17	561.03	561.19
M	19+85.00	13.17	560.98	561.16
N	19+95.00	13.17	560.93	561.12
O	20+05.00	13.17	560.88	561.07
P	20+15.00	13.17	560.83	561.01
Q	20+25.00	13.17	560.78	560.94
R	20+35.00	13.17	560.73	560.86
S	20+45.00	13.17	560.68	560.77
T	20+55.00	13.17	560.63	560.68
U	20+65.00	13.17	560.58	560.60
C Brg. Pier 2	20+75.00	13.17	560.53	560.53
V	20+85.00	13.17	560.48	560.47
W	20+95.00	13.17	560.43	560.42
X	21+05.00	13.17	560.38	560.37
Y	21+15.00	13.17	560.33	560.32
Z	21+25.00	13.17	560.28	560.28
AA	21+35.00	13.17	560.23	560.23
BB	21+45.00	13.17	560.18	560.18
C Brg. N. Abut.	21+55.00	13.17	560.13	560.13
Bk. N. Abut.	21+56.83	13.17	560.12	560.12

REVISION	DATE	BY	REMARKS
DESIGNED		DCB	
DRAWN		FDL	
REVIEWED		BKC	
APPROVED		DCB	

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 5 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	24
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

LEFT EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
A	18+14.17	15.00	562.12
B	18+24.17	15.00	561.97
C	18+34.17	15.00	561.84
D	18+44.17	15.00	561.72

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	18+14.17	11.00	562.20
B	18+24.17	11.00	562.05
C	18+34.17	11.00	561.92
D	18+44.17	11.00	561.80

CENTERLINE OF ROADWAY & P.G.L.

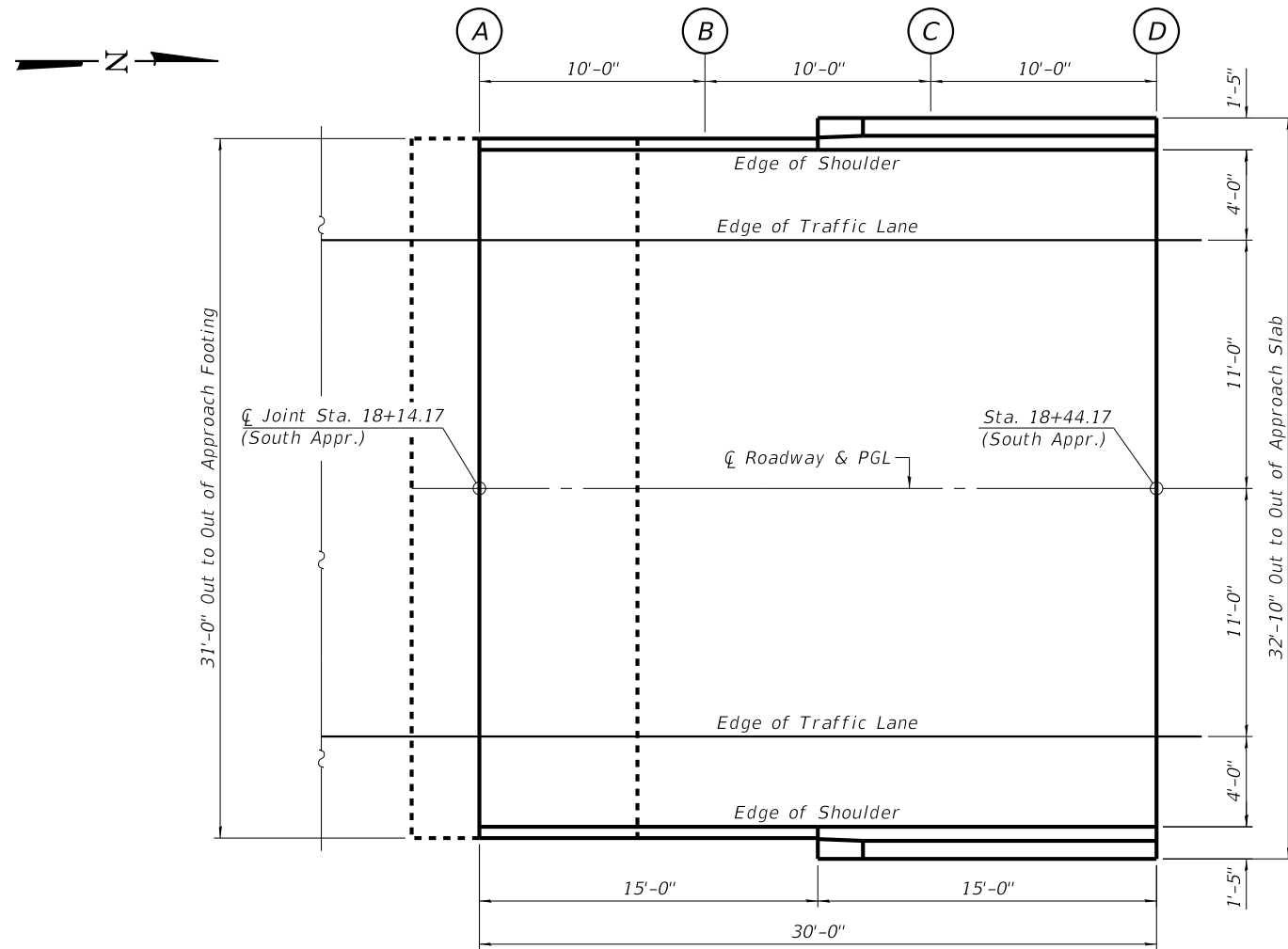
Location	Station	Offset	Theoretical Grade Elevations
A	18+14.17	0.00	562.37
B	18+24.17	0.00	562.22
C	18+34.17	0.00	562.09
D	18+44.17	0.00	561.97

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	18+14.17	11.00	562.20
B	18+24.17	11.00	562.05
C	18+34.17	11.00	561.92
D	18+44.17	11.00	561.80

RIGHT EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
A	18+14.17	15.00	562.12
B	18+24.17	15.00	561.97
C	18+34.17	15.00	561.84
D	18+44.17	15.00	561.72



PLAN

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



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

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 6 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	25
WHA# 1247D13			CONTRACT NO. 87673	
ILLINOIS FED. AID PROJECT				

LEFT EDGE OF SHOULDER

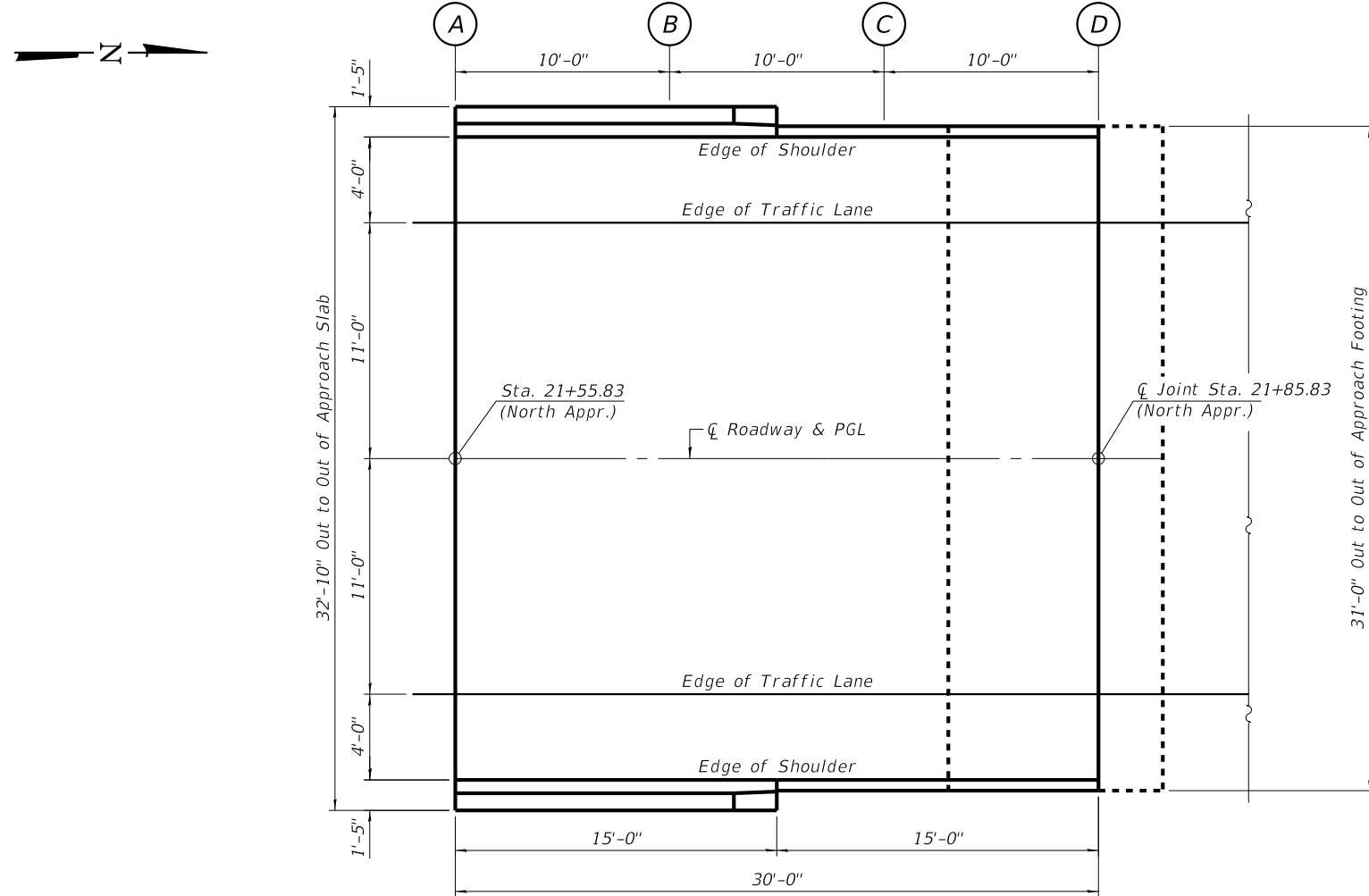
Location	Station	Offset	Theoretical Grade Elevations
A	21+55.83	15.00	560.10
B	21+65.83	15.00	560.05
C	21+75.83	15.00	560.00
D	21+85.83	15.00	559.95

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	21+55.83	11.00	560.18
B	21+65.83	11.00	560.13
C	21+75.83	11.00	560.08
D	21+85.83	11.00	560.03

CENTERLINE OF ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
A	21+55.83	0.00	560.35
B	21+65.83	0.00	560.30
C	21+75.83	0.00	560.25
D	21+85.83	0.00	560.20



RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	21+55.83	11.00	560.18
B	21+65.83	11.00	560.13
C	21+75.83	11.00	560.08
D	21+85.83	11.00	560.03

RIGHT EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
A	21+55.83	15.00	560.10
B	21+65.83	15.00	560.05
C	21+75.83	15.00	560.00
D	21+85.83	15.00	559.95

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

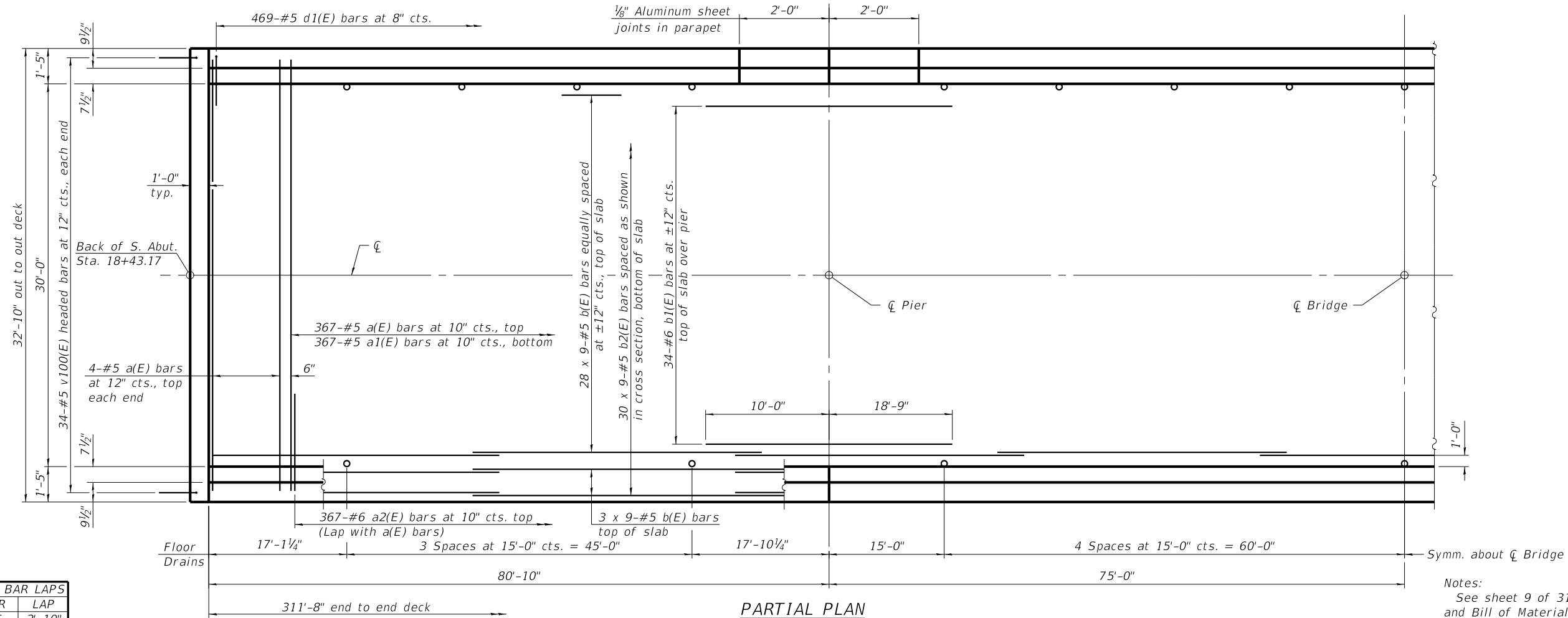
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



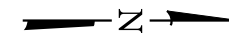
TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 7 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	26
WHA# 1247D13			CONTRACT NO. 87673	
ILLINOIS FED. AID PROJECT				

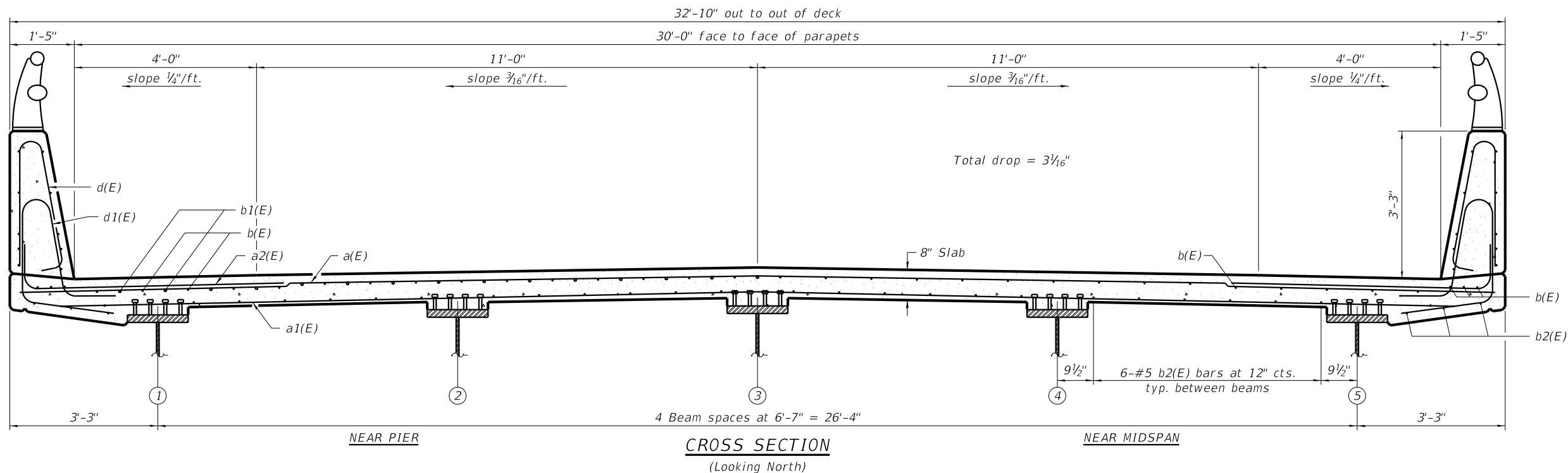


PARTIAL PLAN



Notes:
 See sheet 9 of 31 for superstructure details and Bill of Material.
 Bars indicated thus 28 x 9-#5 etc. indicates 28 lines of bars with 9 lengths per line.
 Top and bottom bars shall not be spliced in the same location. This applies to both transverse and longitudinal bars.

MIN. BAR LAPS	
BAR	LAP
#5	2'-10"
#6	3'-0"



CROSS SECTION
(Looking North)

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

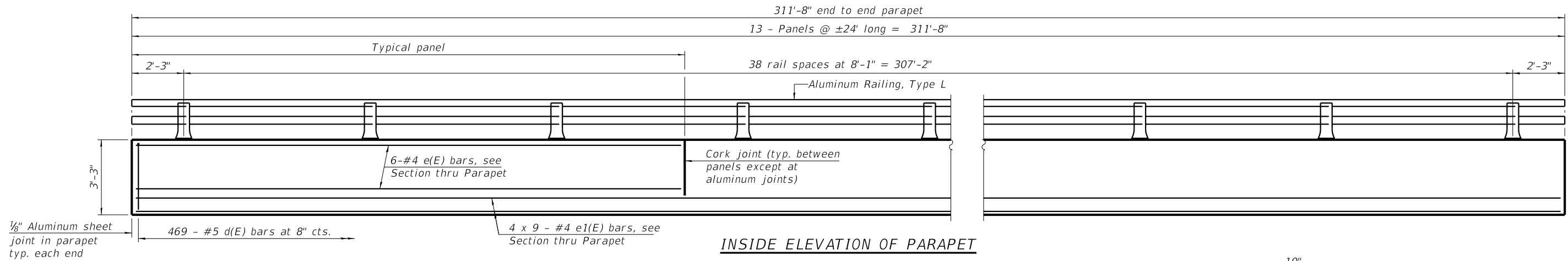
LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00



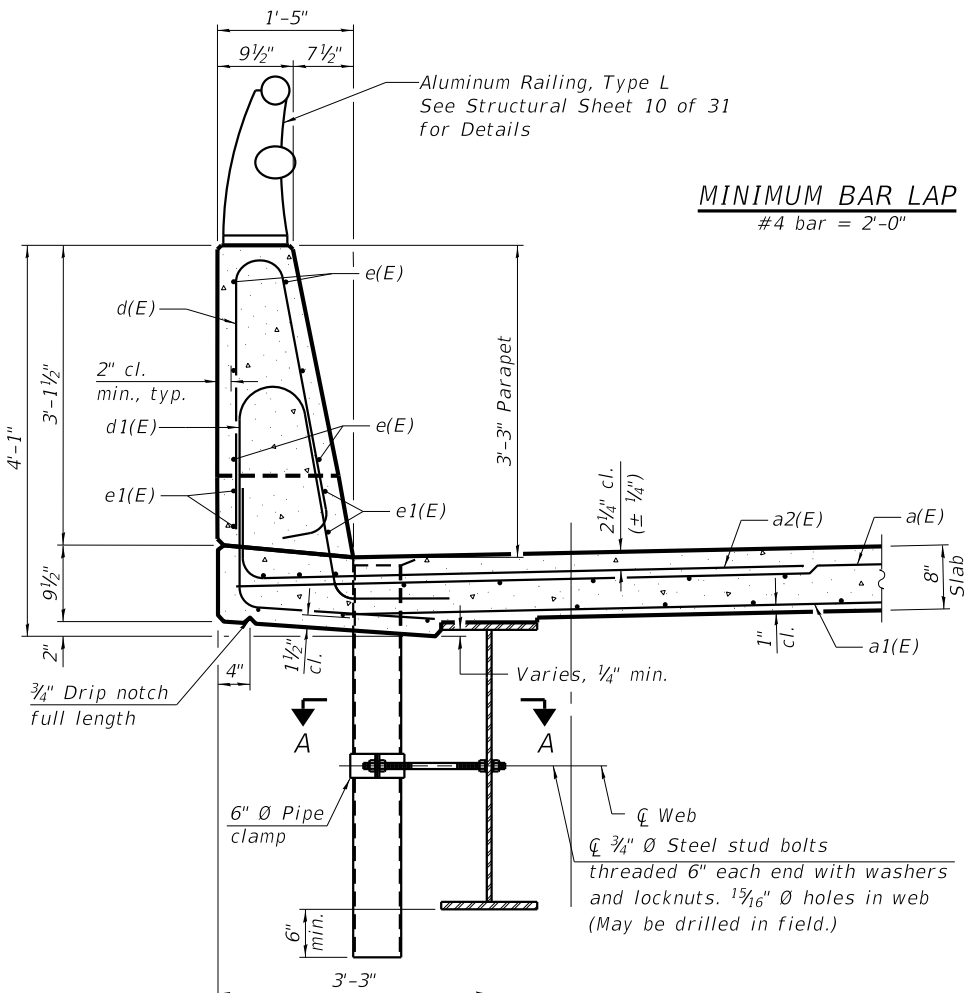
WILLET HOFMANN
 & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

SUPERSTRUCTURE
 STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 8 OF 31 SHEETS

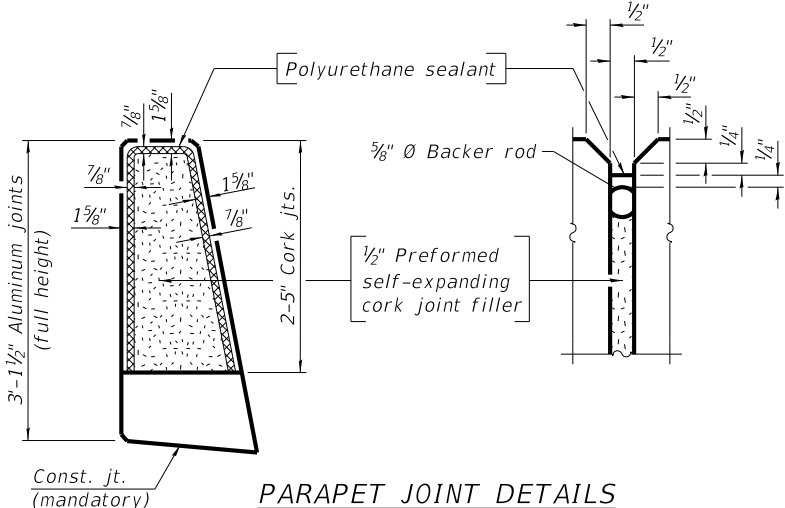
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	27
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET

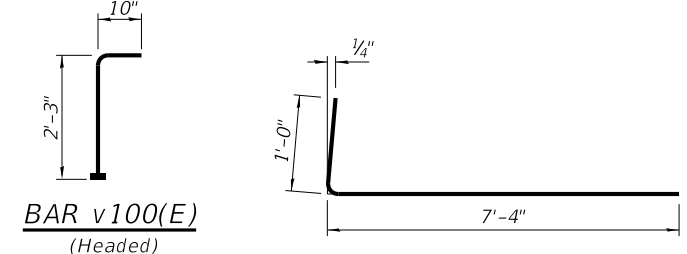


SECTION THRU PARAPET



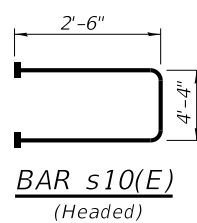
PARAPET JOINT DETAILS

Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

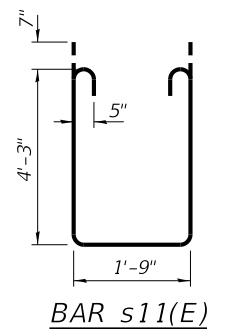


BAR v100(E) (Headed)

BAR a2(E)



BAR s10(E) (Headed)

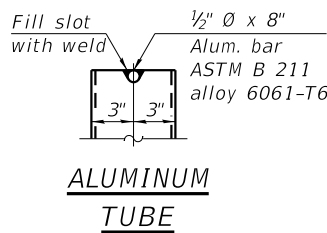


BAR s11(E)

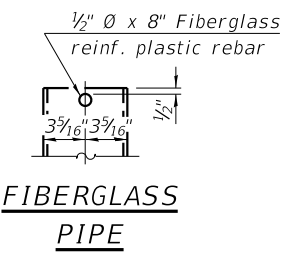
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	375	#5	32'-6"	—
a1(E)	367	#5	32'-6"	—
a2(E)	367	#6	8'-4"	—
b(E)	306	#5	37'-2"	—
b1(E)	68	#5	28'-8"	—
b2(E)	270	#5	37'-2"	—
d(E)	938	#5	6'-5"	—
d1(E)	938	#5	6'-2"	—
e(E)	156	#4	23'-8"	—
e1(E)	72	#4	37'-2"	—
m10(E)	12	#6	32'-6"	—
m11(E)	10	#6	32'-6"	—
s10(E)	60	#5	9'-4"	—
s11(E)	60	#5	11'-5"	—
v100(E)	68	#5	3'-1"	—
Floor Drains	Each			34
Concrete Superstructure		Cu. Yds.		398.6
Bridge Deck Grooving		Sq. Yds.		1,156
Protective Coat		Sq. Yds.		1,578
Reinforcement Bars, Epoxy Coated		Lbs.		73,270

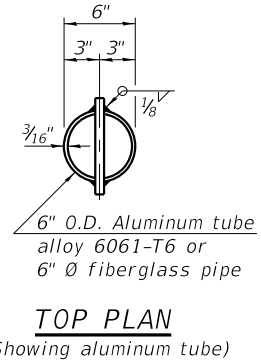
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



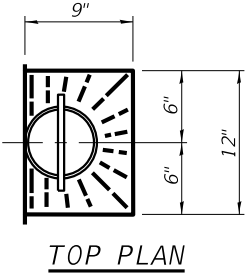
ALUMINUM TUBE



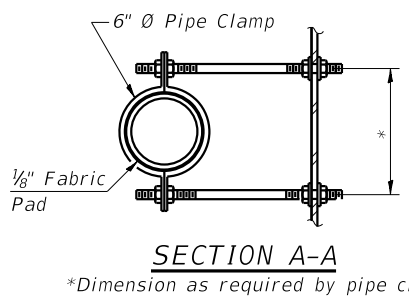
FIBERGLASS PIPE



TOP PLAN (Showing aluminum tube)

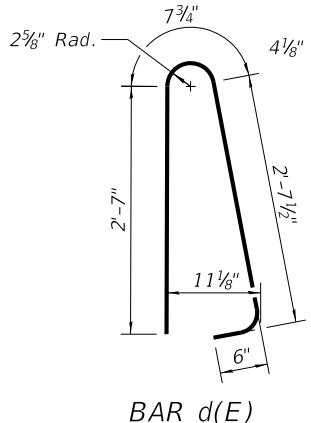


TOP PLAN

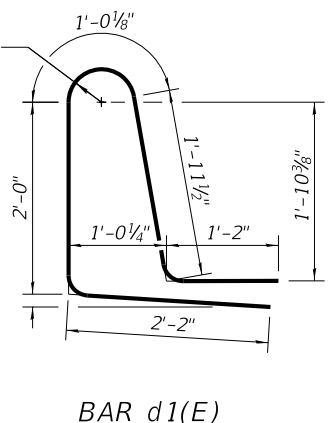


SECTION A-A

*Dimension as required by pipe clamp



BAR d(E)



BAR d1(E)

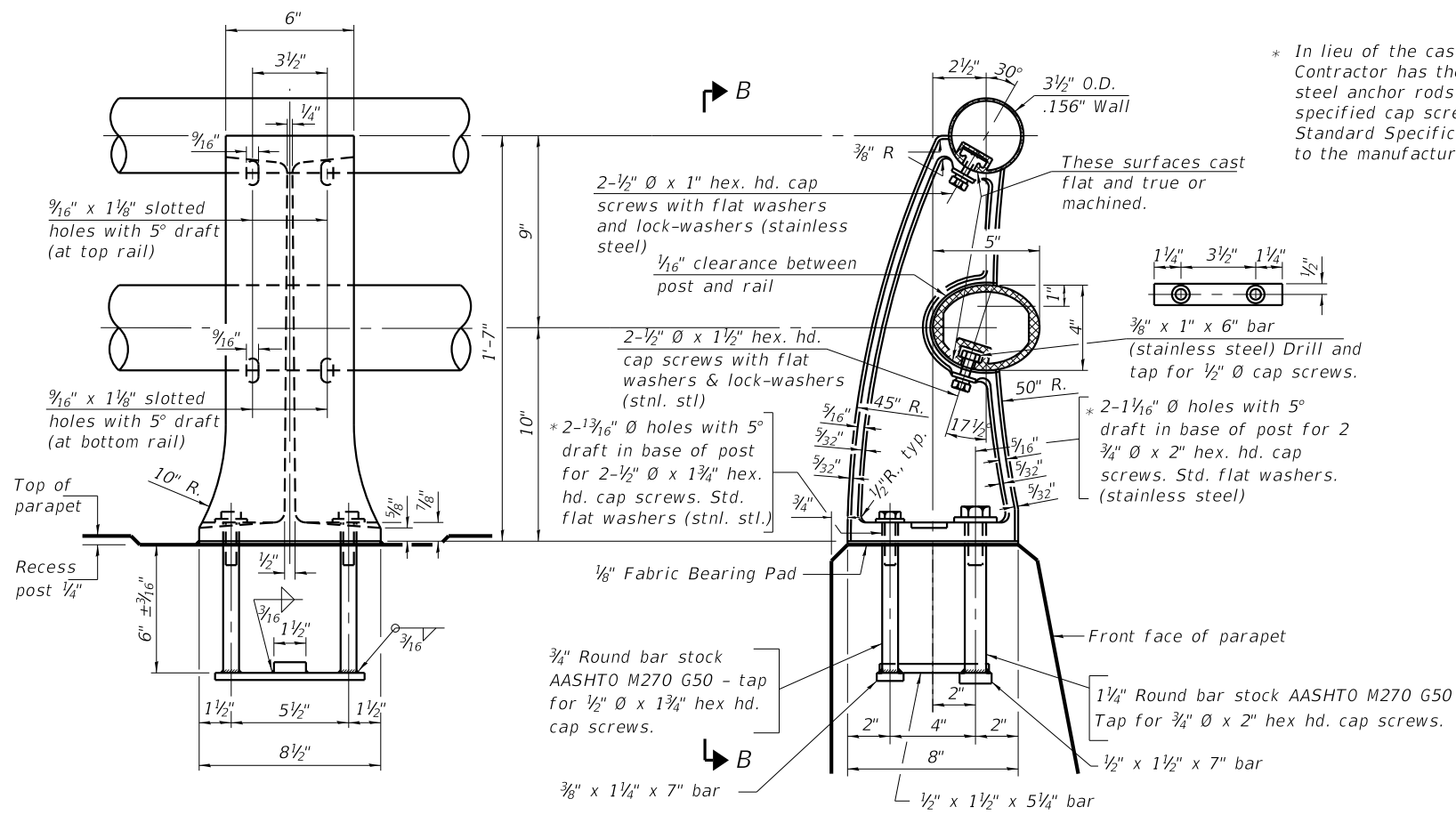
REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

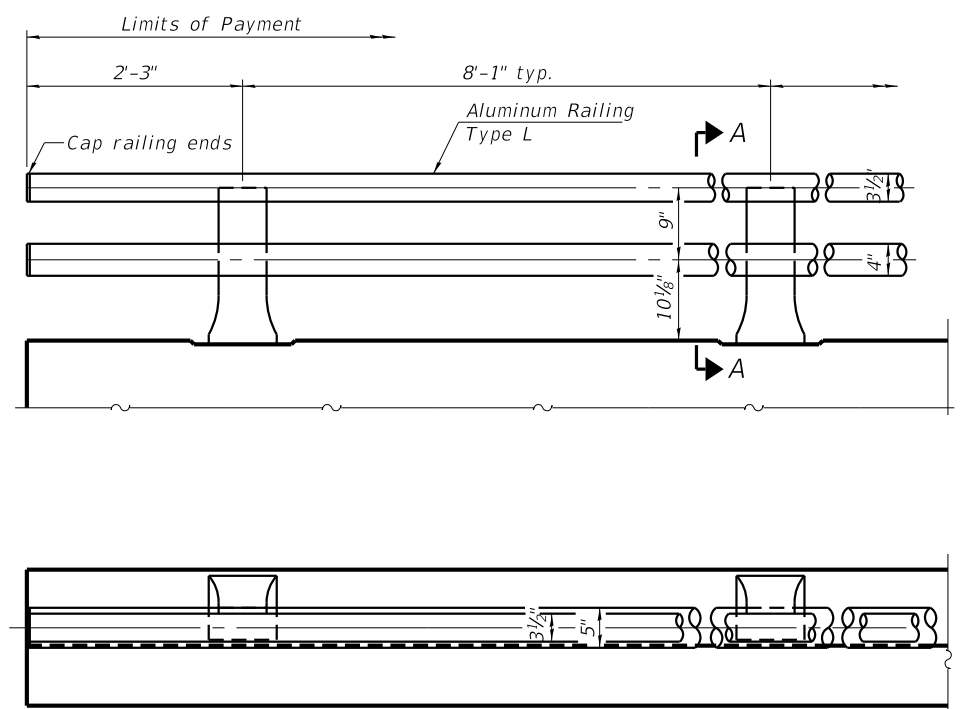
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 9 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	28
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



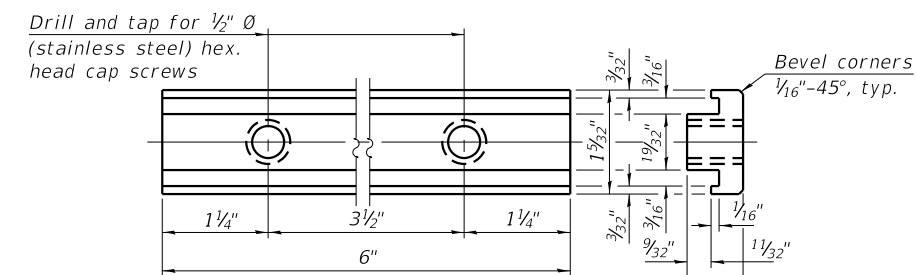
* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



RAIL TERMINAL SECTION

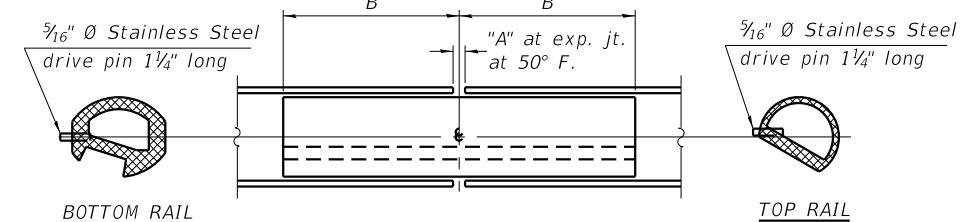
Note: The end rail post shall be set back as required for the terminal rail section.

RAIL POST DETAILS



RAIL POST CLAMP BAR

For Top Rail

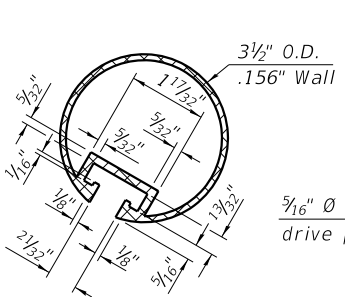


RAIL SPLICE

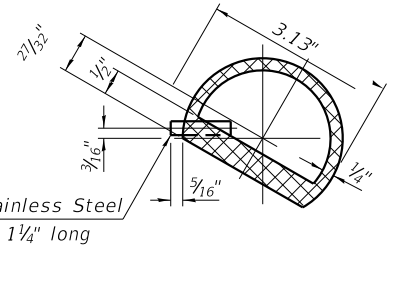
SPLICE DIMENSIONS

Location	T	A	B
All locs. not over exp. jts.	0	3/8"	1'-2"
Over Strip Seal Jt.	≤ 4"	2 1/2"	1'-2"
Over Finger or Modular Jt.	≤ 9 1/2"	5 1/2"	1'-7 3/4"
Over Finger or Modular Jt.	≤ 15"	8 1/4"	2'-1 1/4"

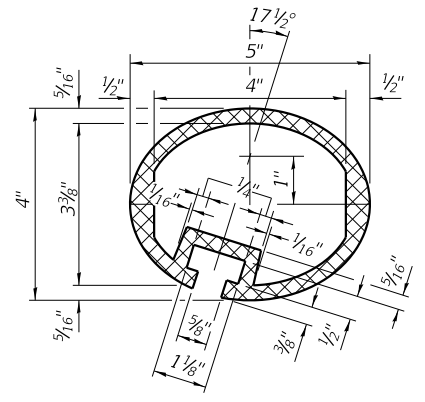
T = ; total movement along centerline of roadway at expansion joint.



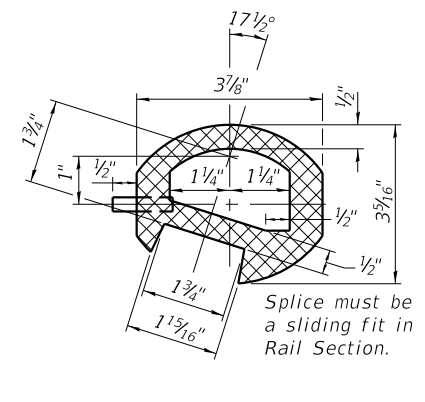
SECTION THRU TOP RAIL



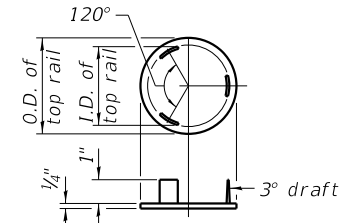
SECTION THRU TOP RAIL SPLICE



SECTION THRU BOTTOM RAIL

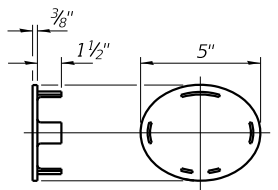


SECTION THRU BOTTOM RAIL SPLICE



CAST END CAP

For top rail Drive Fit Type



CAST END CAP

For bottom rail Drive Fit Type

Notes: All Posts shall be normal to parapet. All joints in rail shall be spliced per detail. All exposed rail ends shall be capped per detail.

Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade, high spots shall be ground and low spots shimmed. Place reinforcement bars to miss anchor rod locations. See structural sheet 9 of 31 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	623

RAILING CRITERIA

NCHRP 350 Test Level	4
Post Spacing Range	7'-0" - 10'-0"
Rail Weight (plf)	40

REVISION	DATE	BY	REMARKS

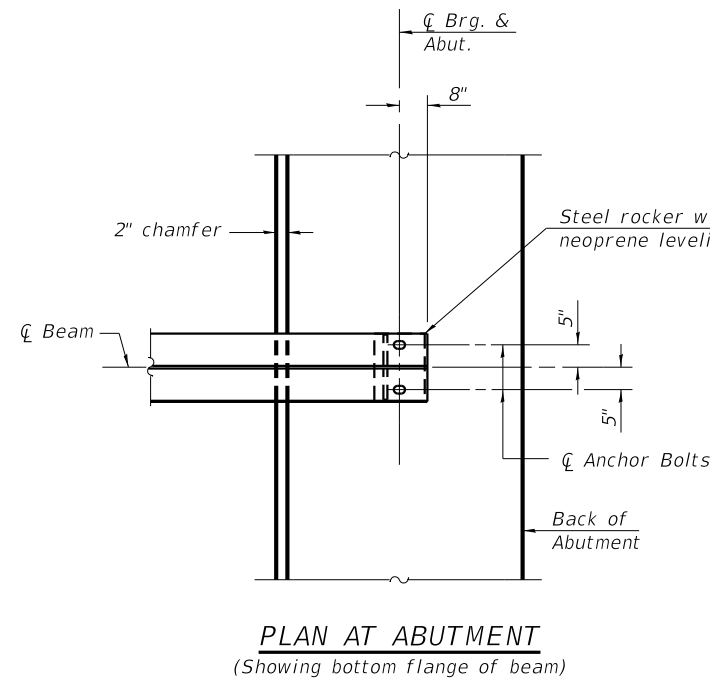
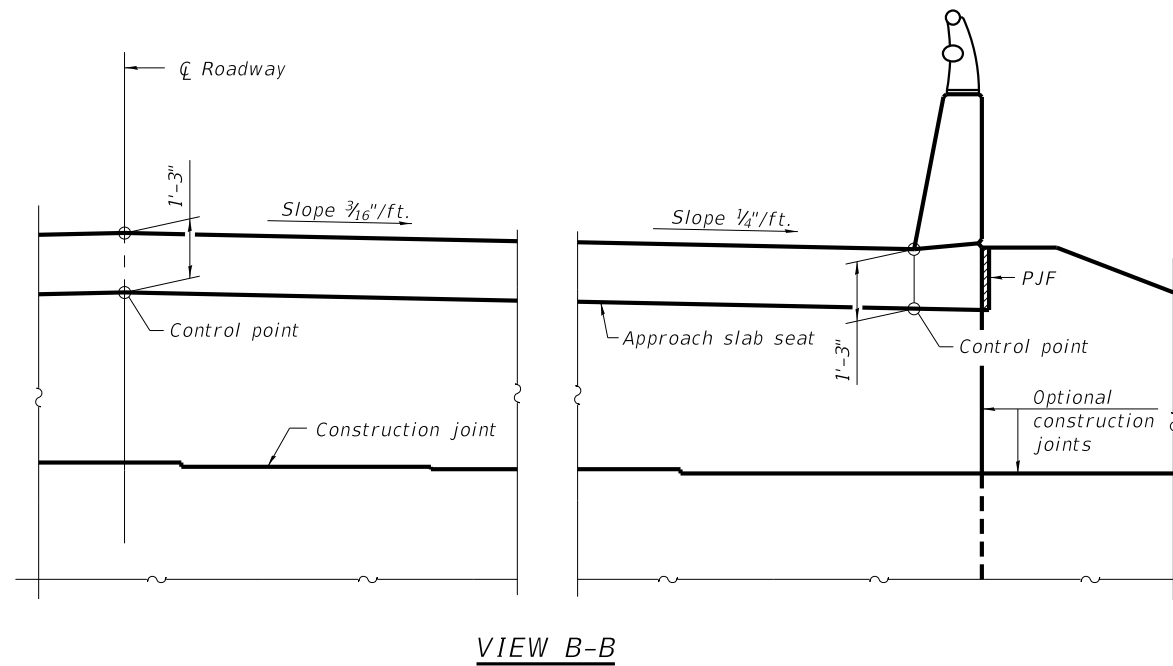
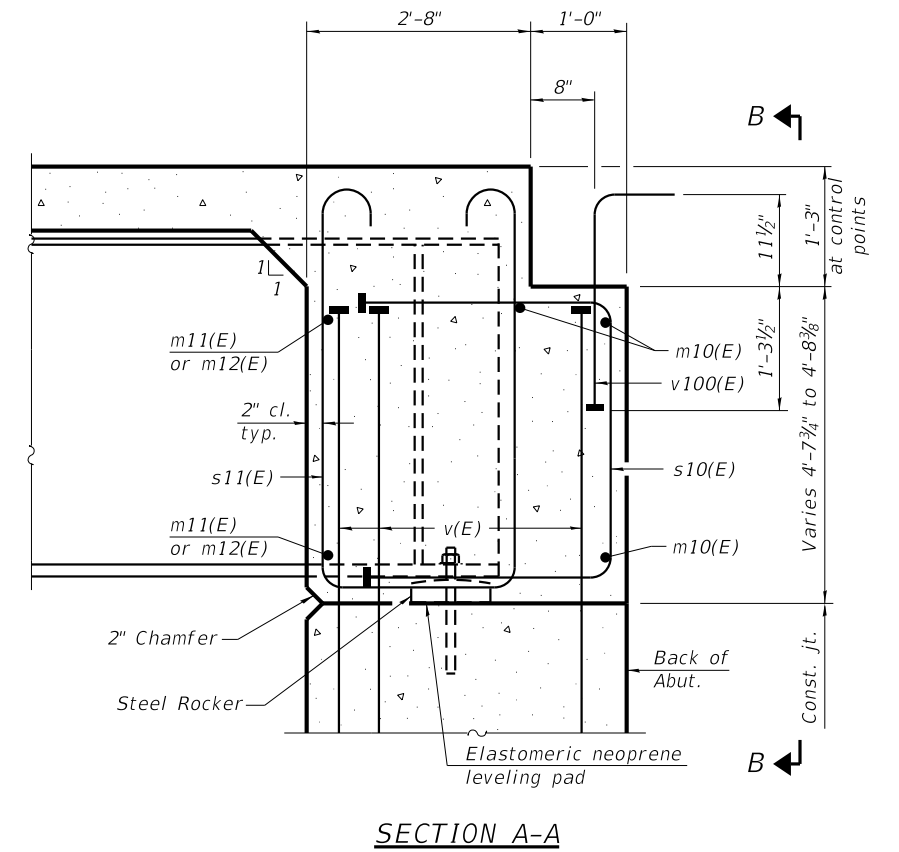
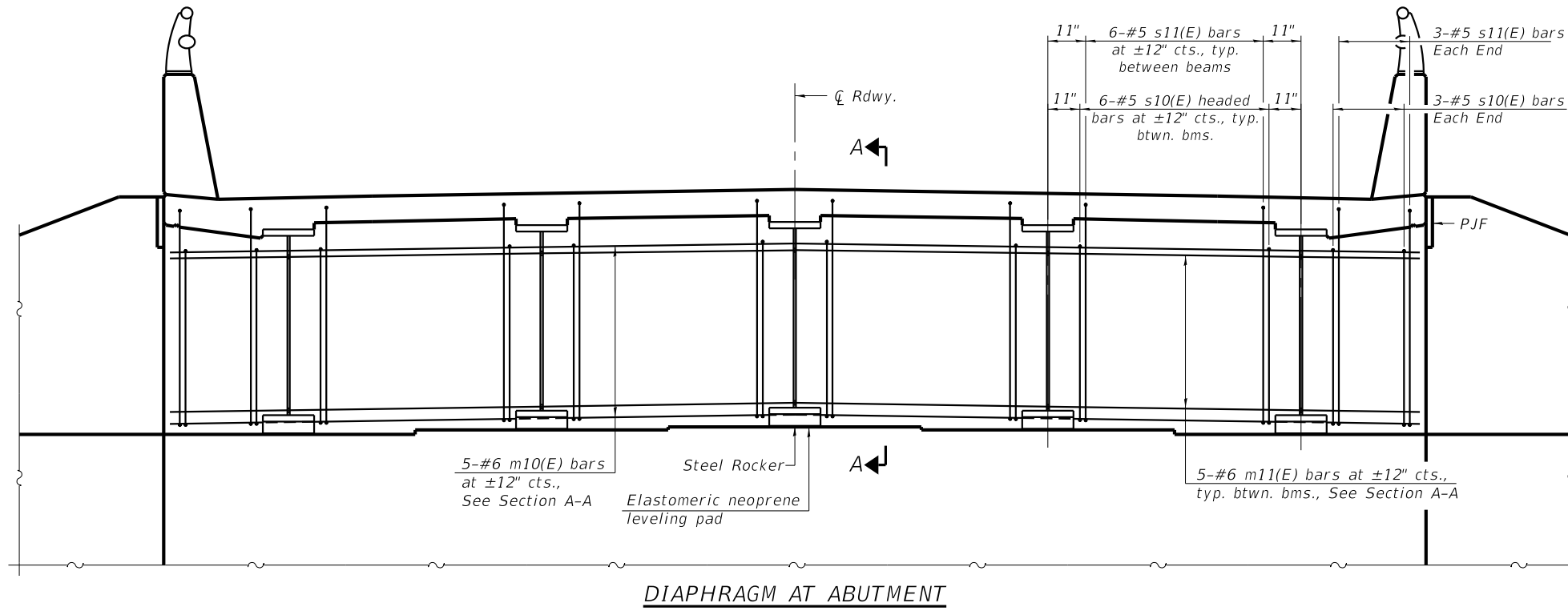
DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

**ALUMINUM RAILING, TYPE L
STRUCTURE NO. 050-3627**
STRUCTURAL SHEET 10 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	29
	WHA# 1247D13		CONTRACT NO.	87673
ILLINOIS FED. AID PROJECT				



Notes:
See Structural sheet 9 of 31 for superstructure details and Bill of Material.
See Structural sheet 9 of 31 for P.J.F. details.
The approach slab seat shall have a constant slope determined from the control points shown.

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

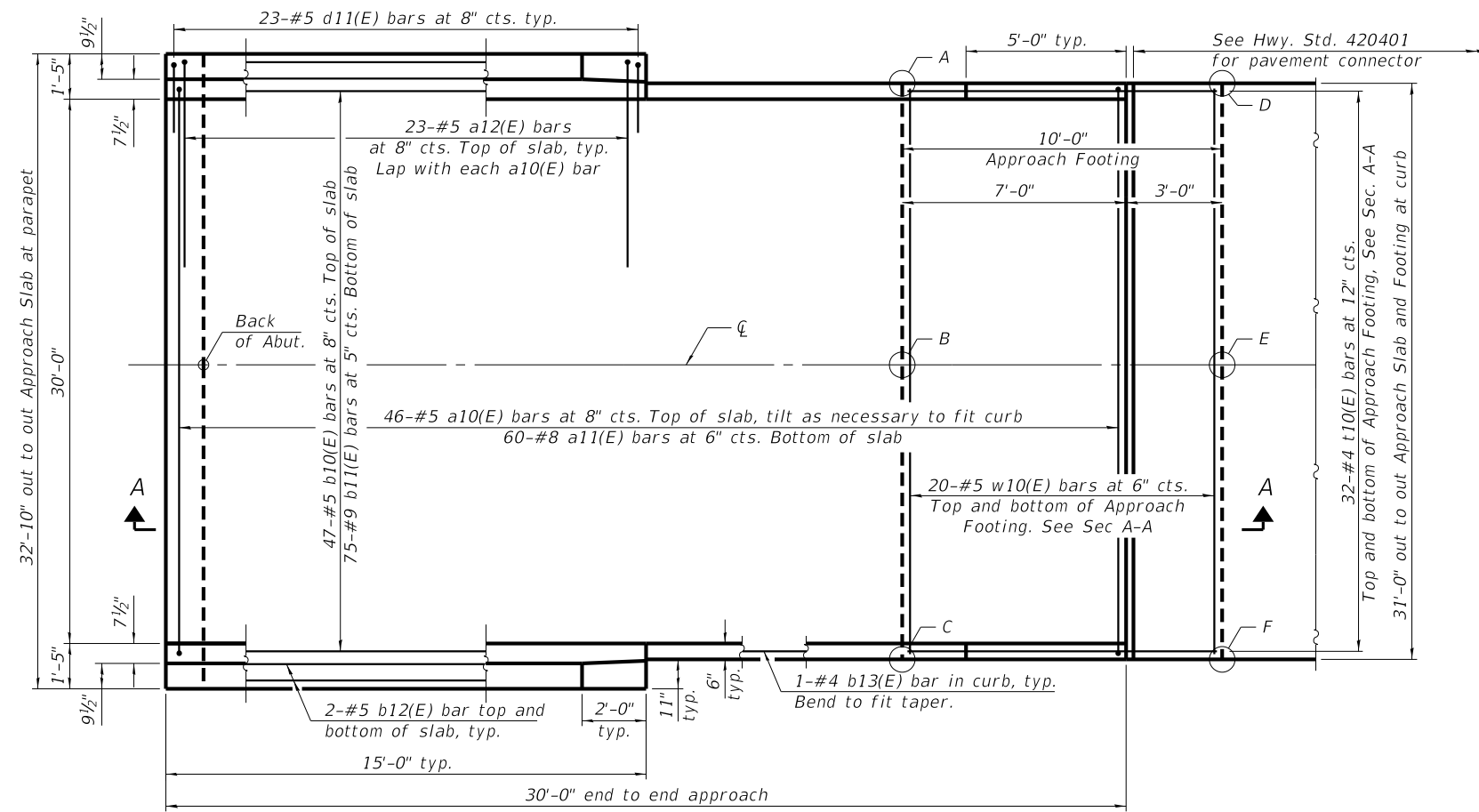


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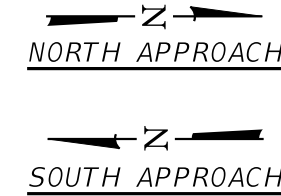
DIAPHRAGM DETAILS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 11 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				

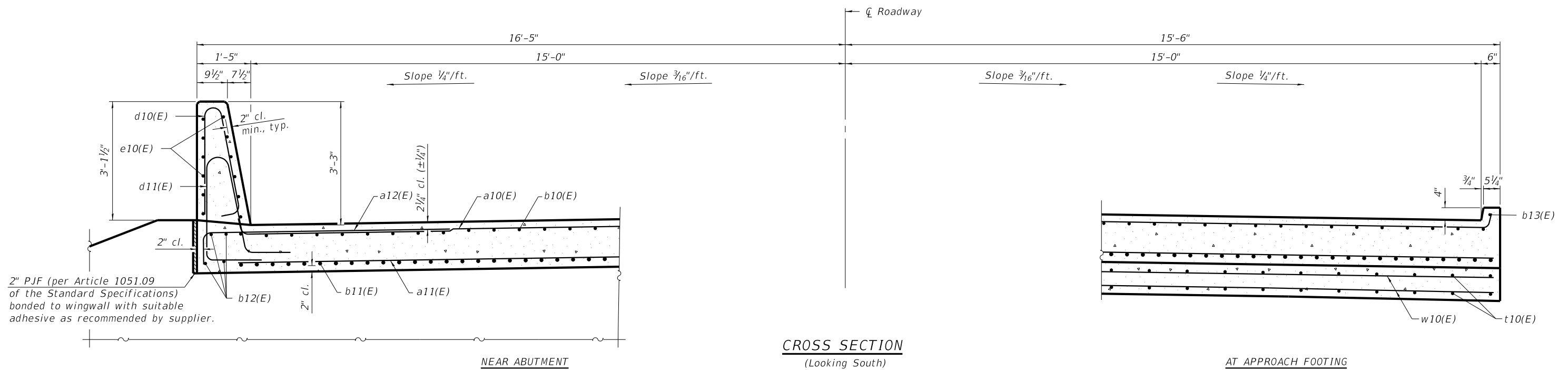


PLAN



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	560.74	559.91	558.72	557.89
B	561.01	560.18	558.99	558.16
C	560.74	559.91	558.72	557.89
D	560.90	560.07	558.67	557.84
E	561.17	560.34	558.94	558.11
F	560.90	560.07	558.67	557.84



NEAR ABUTMENT

CROSS SECTION (Looking South)

AT APPROACH FOOTING

(Sheet 1 of 2)

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

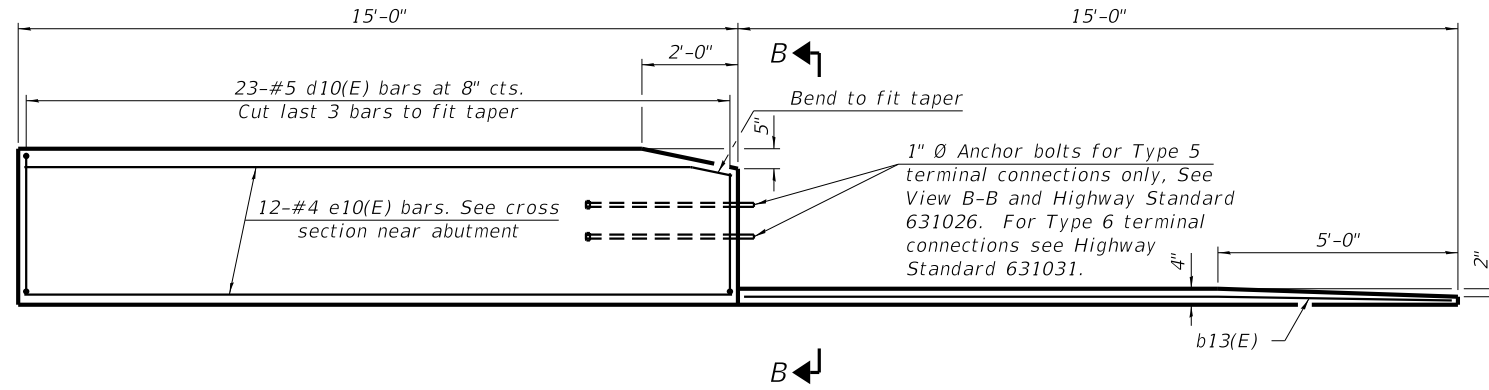
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 050-3627

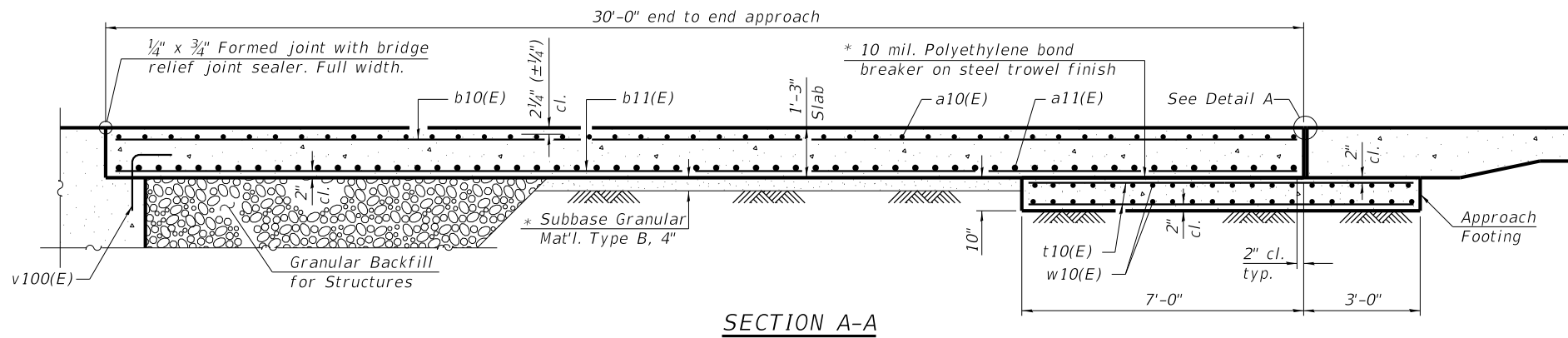
STRUCTURAL SHEET 12 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	31
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

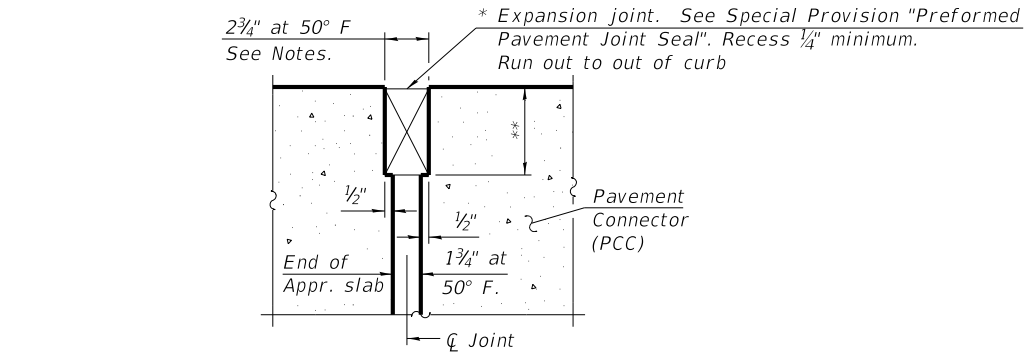


INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see Structural sheet 3 of 31.

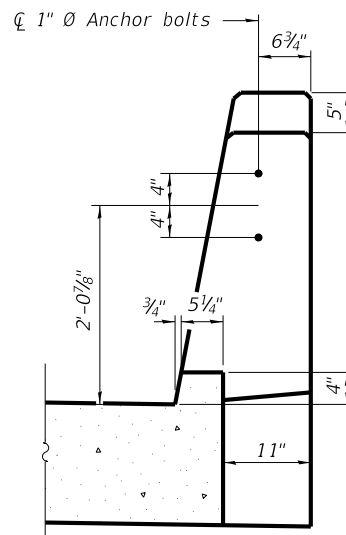


SECTION A-A

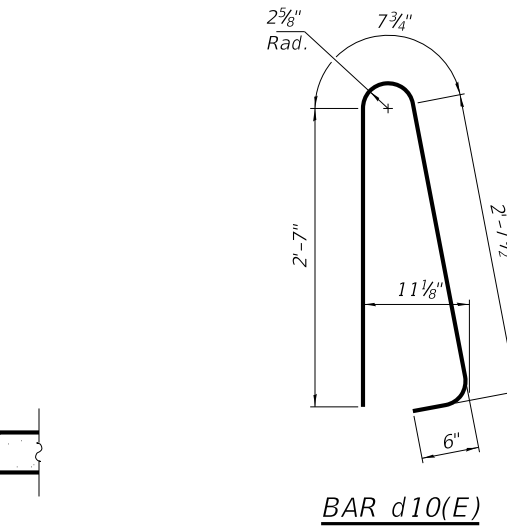


DETAIL A

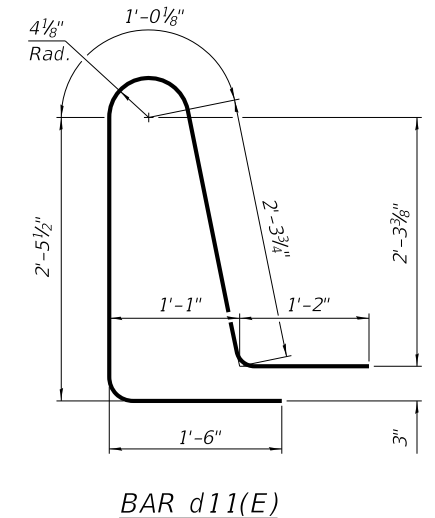
* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations



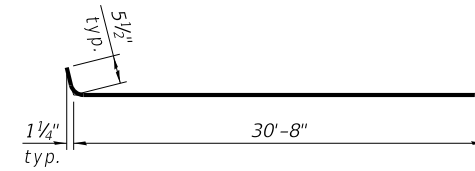
VIEW B-B



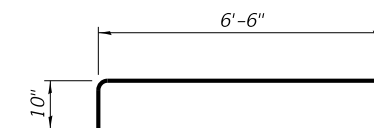
BAR d10(E)



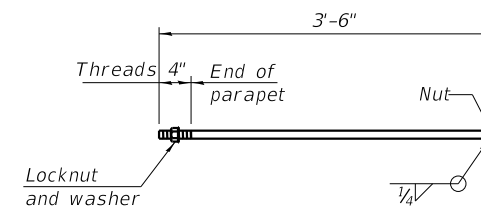
BAR d11(E)



BAR a10(E)



BAR a12(E)



*** 1" Ø ANCHOR BOLT**

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	31'-7"	U
a11(E)	120	#8	30'-11"	U
a12(E)	92	#5	7'-4"	U
b10(E)	94	#5	29'-8"	U
b11(E)	150	#9	29'-8"	U
b12(E)	16	#5	14'-8"	U
b13(E)	4	#4	14'-8"	U
d10(E)	92	#5	6'-5"	J
d11(E)	92	#5	8'-6"	J
e10(E)	48	#4	14'-8"	U
t10(E)	128	#4	9'-8"	U
w10(E)	80	#5	30'-8"	U
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	88.9
Concrete Structures			Cu. Yd.	19.2
Reinforcement Bars, Epoxy Coated			Pound	37,250

(Sheet 2 of 2)

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

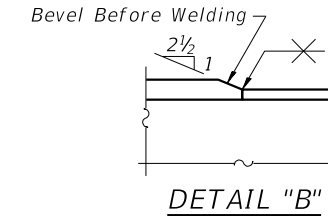
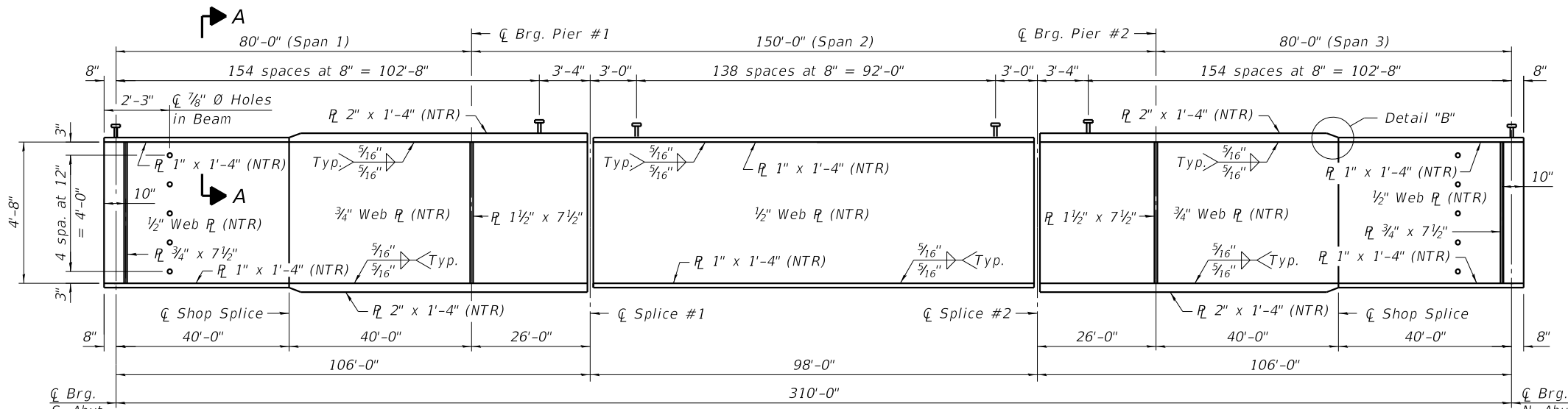
LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00

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

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 13 OF 31 SHEETS

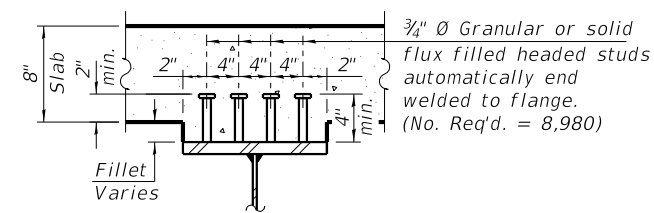
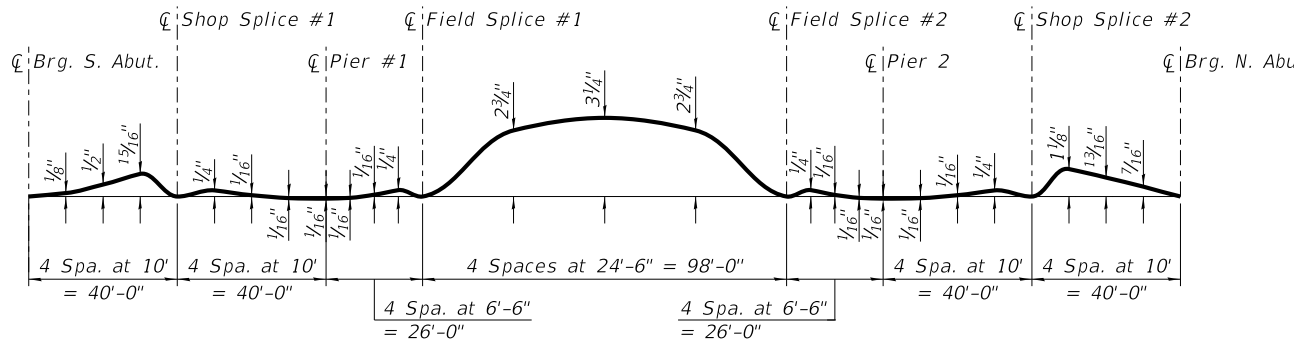
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	32
WHA# 1247D13			CONTRACT NO. 87673	
ILLINOIS FED. AID PROJECT				



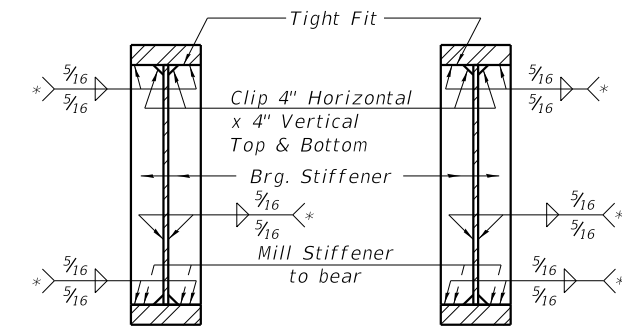
I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing *f_s*(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
I_c(n), S_c(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
I_c(3n), S_c(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
I_c(cr), S_c(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f_s* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

		0.5 Sp. 2	Pier
<i>I_s</i>	(in ⁴)	33,312	64,821
<i>I_c(n)</i>	(in ⁴)	79,136	122,944
<i>I_c(3n)</i>	(in ⁴)	58,430	92,443
<i>I_c(cr)</i>	(in ⁴)	—	—
<i>S_s</i>	(in ³)	1,149	2,161
<i>S_c(n)</i>	(in ³)	4,254	—
<i>S_c(3n)</i>	(in ³)	2,078	—
<i>S_c(cr)</i>	(in ³)	—	—
DC1	(k/ft)	0.992	1.113
MDC1	(k)	924	1,840
DC2	(k/ft)	0.180	0.180
MDC2	(k)	220	385
DW	(k/ft)	0.329	0.329
MDW	(k)	401	489
<i>M_L + i_M</i>	(k)	1,232	1,629
<i>M_u</i> (Strength I)	(k)	4,186	6,365
<i>∅f Mn</i>	(k)	8,104	9,359
<i>f_s</i> DC1	(ksi)	9.65	10.22
<i>f_s</i> DC2	(ksi)	1.27	2.14
<i>f_s</i> DW	(ksi)	2.31	2.71
<i>f_s</i> (L+IM)	(ksi)	4.52	11.76
<i>f_s</i> (Service II)	(ksi)	17.75	26.83
0.95R _h F _{yf}	(ksi)	—	—
<i>f_s</i> (Total)(Strength I)	(ksi)	24.17	35.34
<i>∅f F_n</i>	(ksi)	—	—
V _f	(k)	29.8	—

DC1: Un-factored non-composite dead load (kips/ft.).
 MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_L + i_M: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



Beam Number	∅ Brg S. Abut.	Splice #1	Splice #2	∅ Brg N. Abut.
1	560.737	560.042	559.553	559.117
2	560.847	560.157	559.668	559.227
3	560.947	560.261	559.772	559.327
4	560.847	560.157	559.668	559.227
5	560.737	560.042	559.553	559.117



	Abut.	Pier
RDC1	(k)	23.3
RDC2	(k)	3.6
RDW	(k)	6.6
R _L + i _M	(k)	68.1
RTotal	(k)	101.6

M_u (Strength I): Factored design moment (kip-ft.).
 1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 *M_L + i_M*
∅f Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 MDC1/ S_{nc}
f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 MDC2/ S_c(3n) or MDC2/ S_c(cr) as applicable.
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 MDW/ S_c(3n) or MDW/ S_c(cr) as applicable.
f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_L + i_M / S_c(n) or *M_L + i_M* / S_c(cr) as applicable.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	L. Sum	1
Stud Shear Connectors	Each	8,980

NOTES:
 All plate girder flanges, webs, splicer plates and bearing stiffeners shall be AASHTO M 270 Grade 50W.

* Terminate 1/4" (±1/8") from the end of plate intersects.

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00

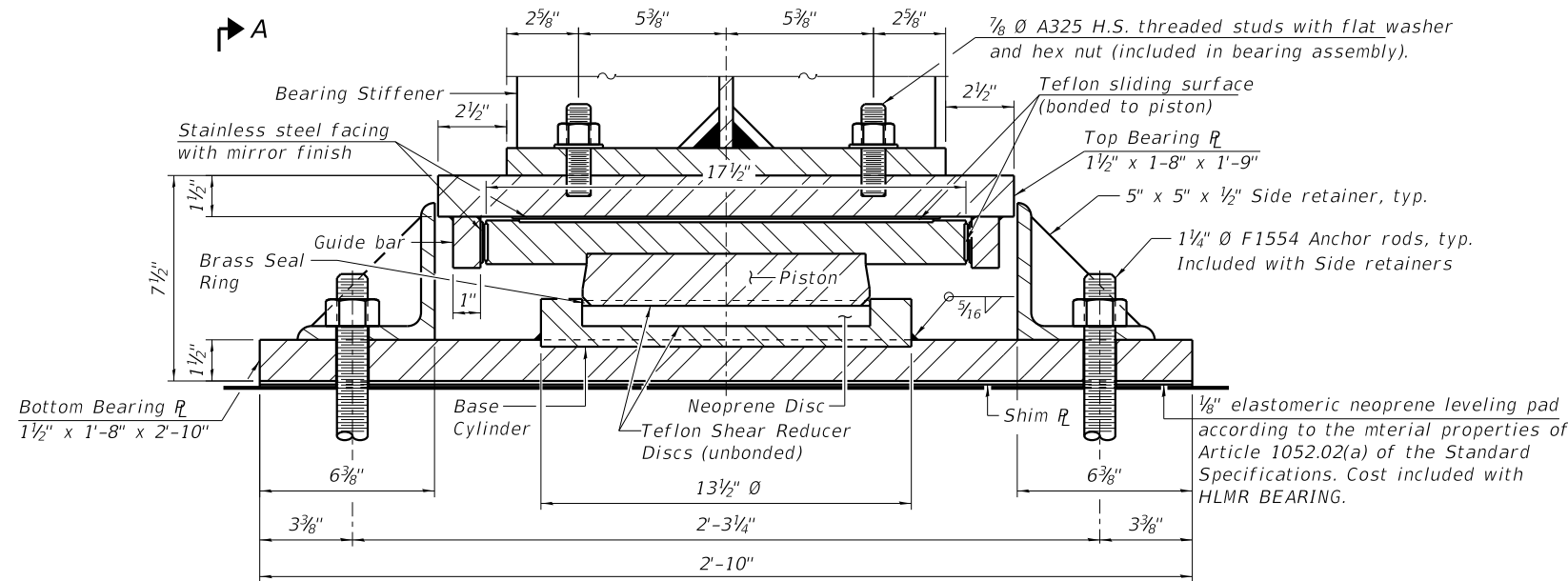


STRUCTURAL STEEL
 STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 14 OF 31 SHEETS

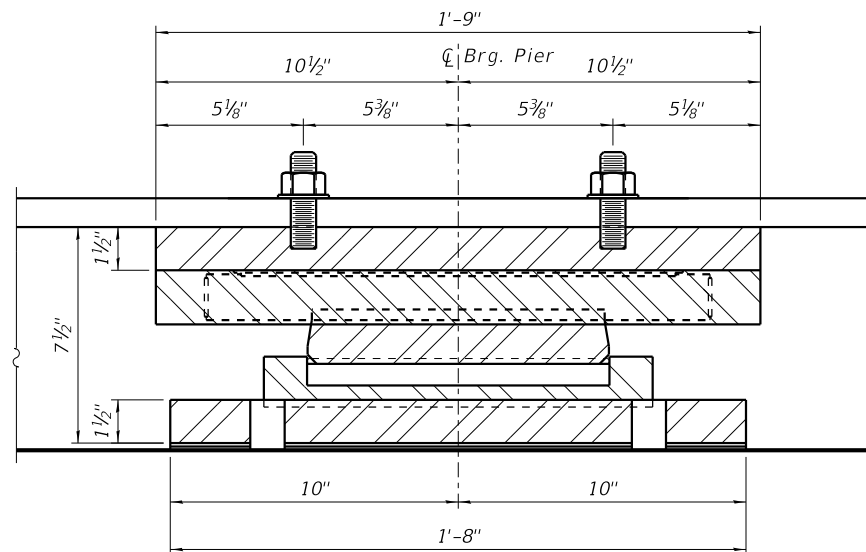
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	33
WHA# 1247D13			CONTRACT NO. 87673	
ILLINOIS FED. AID PROJECT				

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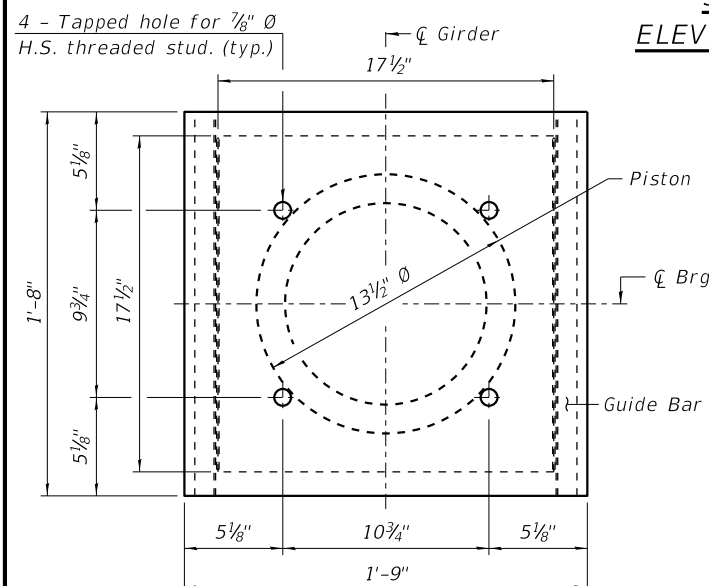
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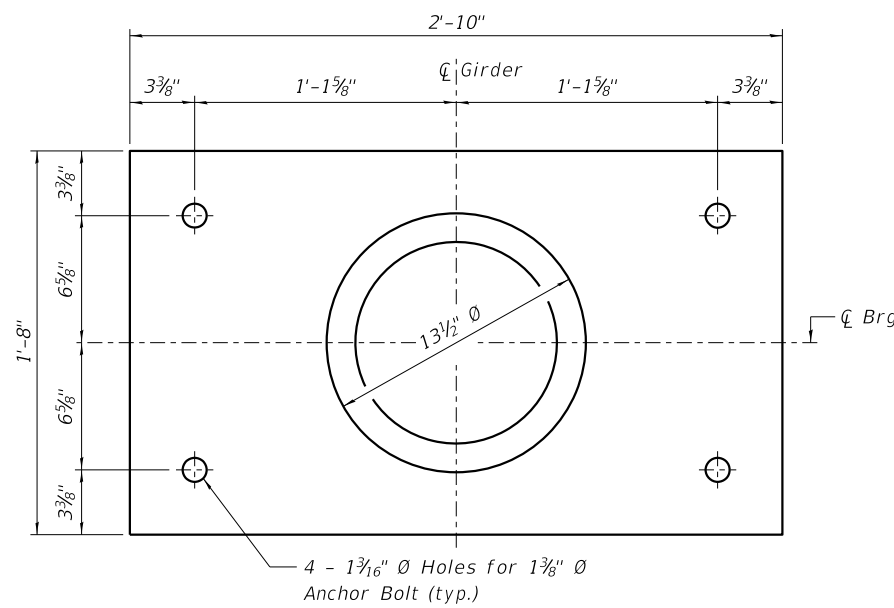
GUIDED EXPANSION FLOATING BEARING - 700K



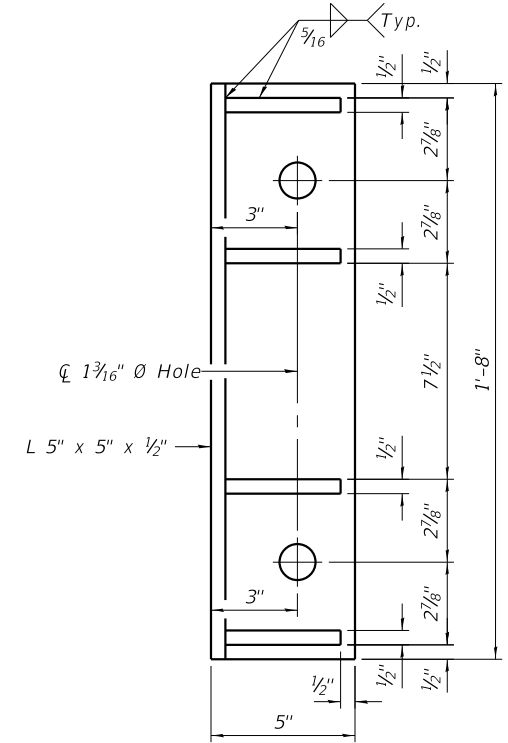
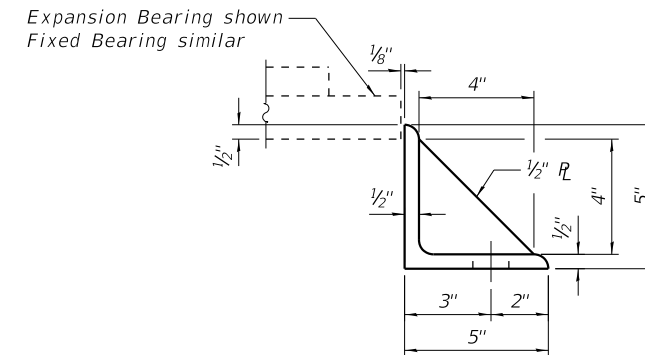
**SECTION A-A
ELEVATION AT PIER 2
(Looking West)**



TOP BEARING PLATE AND PISTON PLAN



BOTTOM BEARING PLATE AND BASE CYLINDER PLAN



SIDE RETAINER

Equivalent welded plates with stiffeners will be allowed in lieu of rolled angle.

HLMR BEARING DATA

Vertical Design Load (kips)	Lateral Design Load (kips)	Total Required Movement (in.)	Total Required Rotation (rad.)	L (in.)	D (in.)	Tt (in.)	Tb (in.)	Th (in.)
700	Hu 57	0.00	0.0200	17.5	13.5	1.5	1.5	7.5

Expansion Length = 230'-0"

Dead Load = 283.0 k
Live Load = 367.0 k

NOTES:

- The structural steel plates of bearing assembly shall conform to the requirements of AASHTO M 270 Grade 50W.
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in bearing details.
- Total Bearing Heights (Th) are based on values taken from a specific manufacturer's design tables. Actual bearing heights may differ from contract plans. Contractor to verify bearing heights and adjust seat elevations if required.
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1 1/4"	Each	20
High Load Multi-Rotation Bearings, Disk, Guided Expansion, 700k	Each	5

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

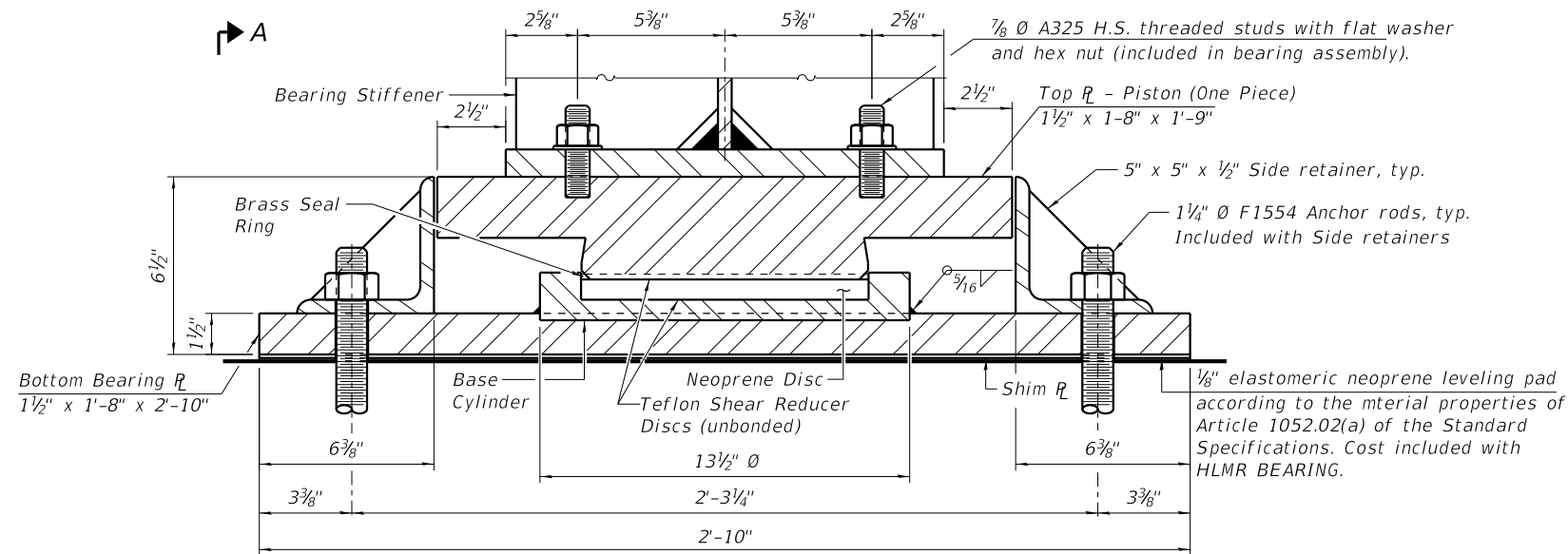
**LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
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809 EAST 2ND STREET, DIXON, IL 61021-0367
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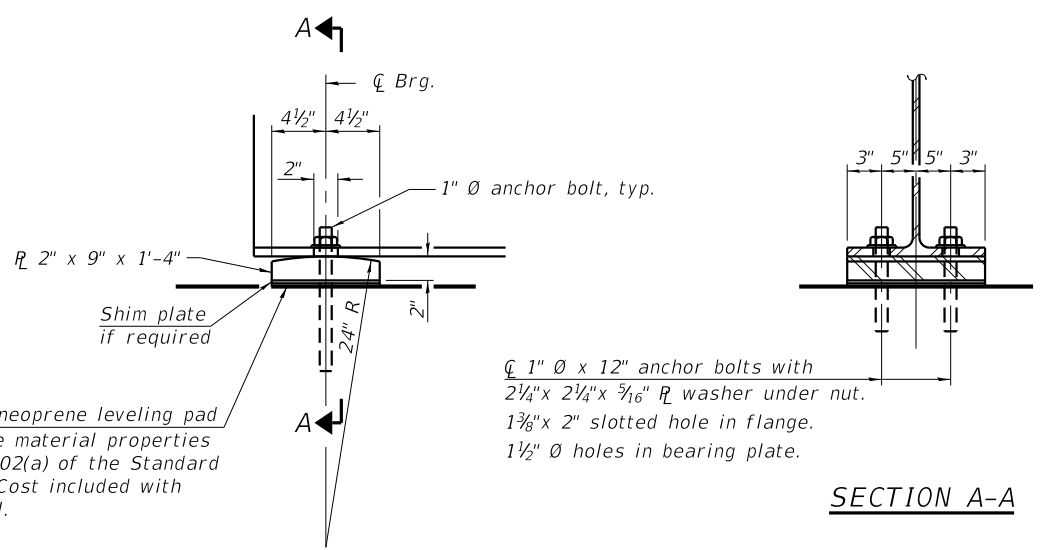
**BEARING DETAILS
STRUCTURE NO. 050-3627**
STRUCTURAL SHEET 17 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	35
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

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FIXED FLOATING BEARING - 700K



ELEVATION AT ABUTMENT

SECTION A-A

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1" Ø x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" Ø holes in bearing plate.

FIXED BEARING

Notes:
 Anchor bolts shall be according to Article 521.06 of the Standard Specifications. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
 Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

HLMR BEARING DATA

Vertical Design Load (kips)	Lateral Design Load (kips)	Total Required Movement (in.)	Total Required Rotation (rad.)	L (in.)	D (in.)	Tt (in.)	Tb (in.)	Th (in.)
700	Hu 57	0.0	0.0200	17.5	13.5	1.5	1.5	6.5

Expansion Length = 230'-0"

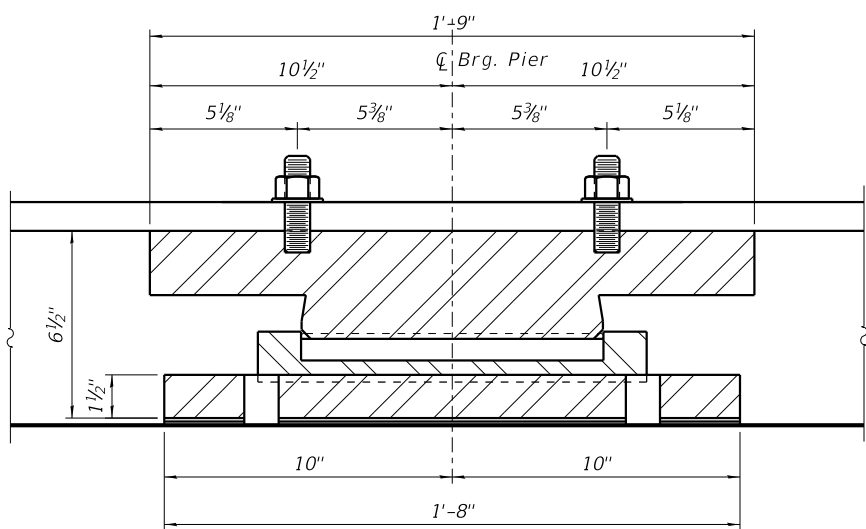
Dead Load = 283.0 k
 Live Load = 367.0 k

NOTES:

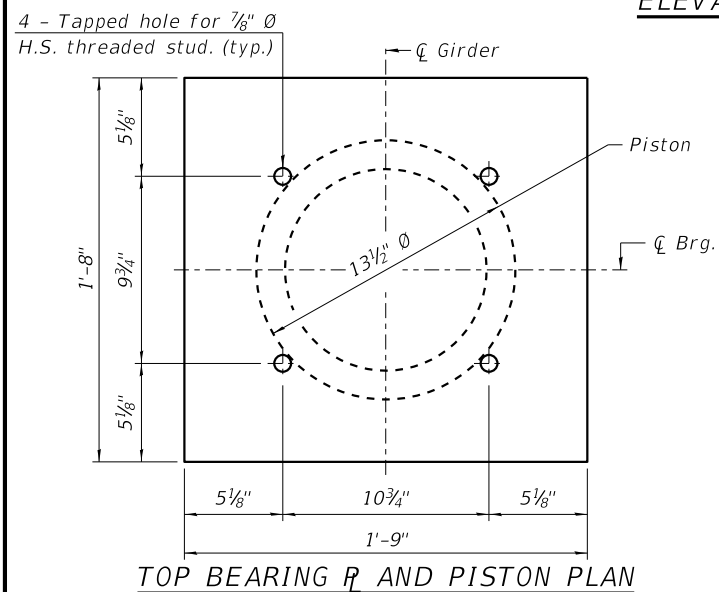
The structural steel plates of both bearing assemblies shall conform to the requirements of AASHTO M 270 Grade 50W.
 Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in bearing details.
 Total Bearing Heights (Th) are based on values taken from a specific manufacturer's design tables. Actual bearing heights may differ from contract plans. Contractor to verify bearing heights and adjust seat elevations if required.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 Side Retainer details and notes are on Structural Sheet 17 of 31.

BILL OF MATERIAL

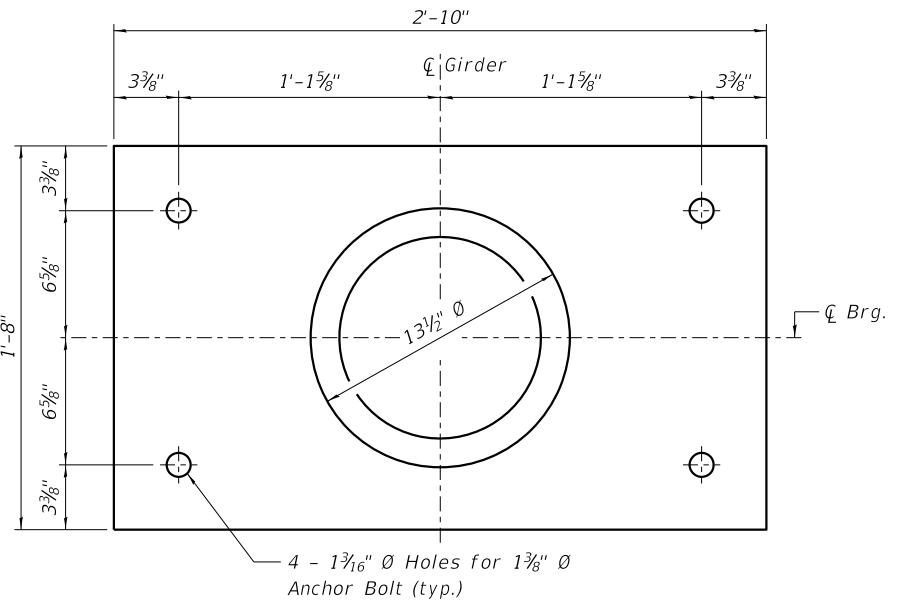
Item	Unit	Total
Anchor Bolts, 1"	Each	20
Anchor Bolts, 1 1/2"	Each	20
Load Multi-Rotation Bearings, Disk, Fixed, 700k	Each	5



**SECTION A-A
 ELEVATION AT PIER 1
 (Looking West)**



TOP BEARING R AND PISTON PLAN



BOTTOM BEARING R AND BASE CYLINDER PLAN

REVISION	DATE	BY	REMARKS

DESIGNED DCB
 DRAWN FDL
 REVIEWED BKC
 APPROVED DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

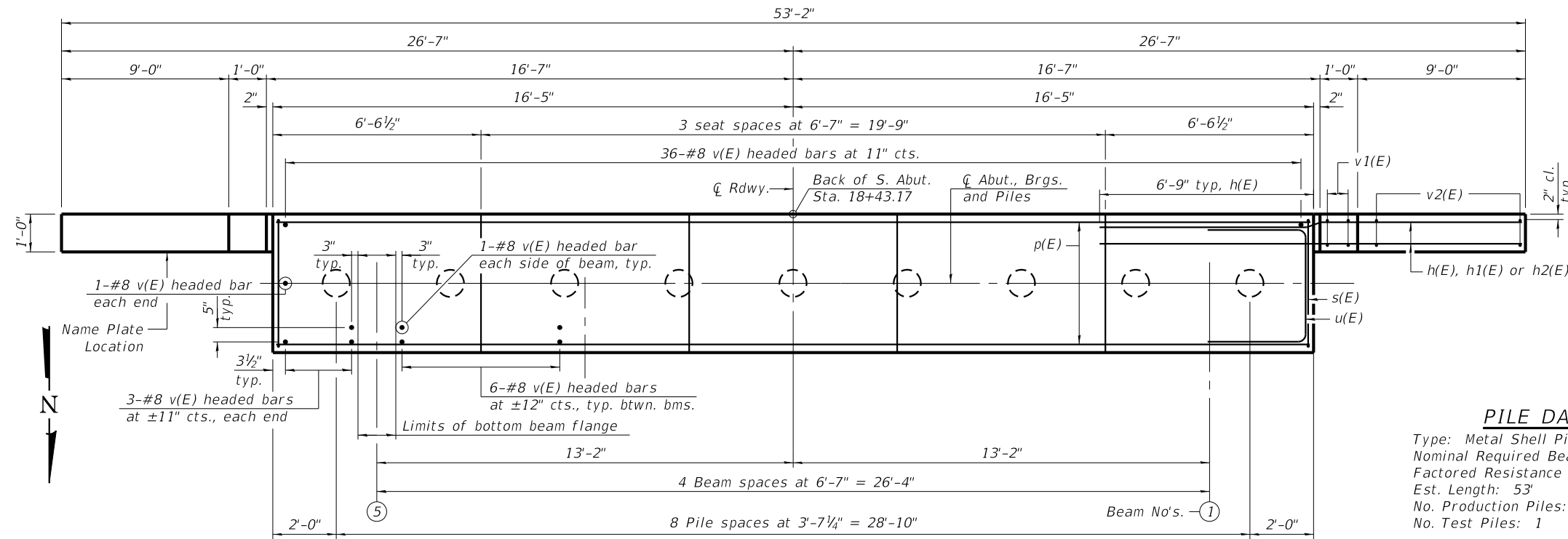
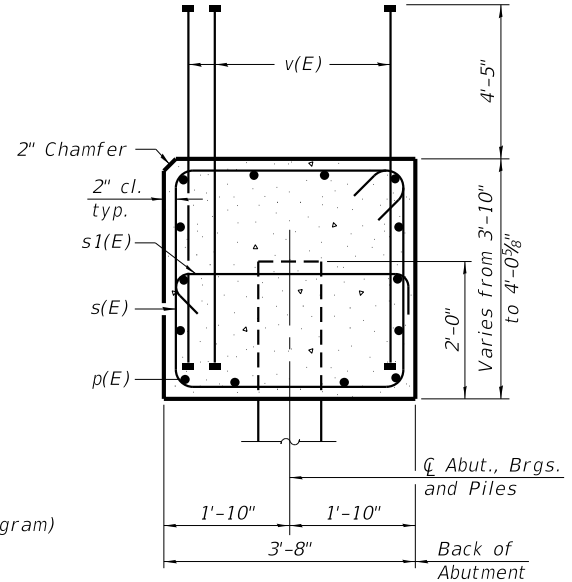
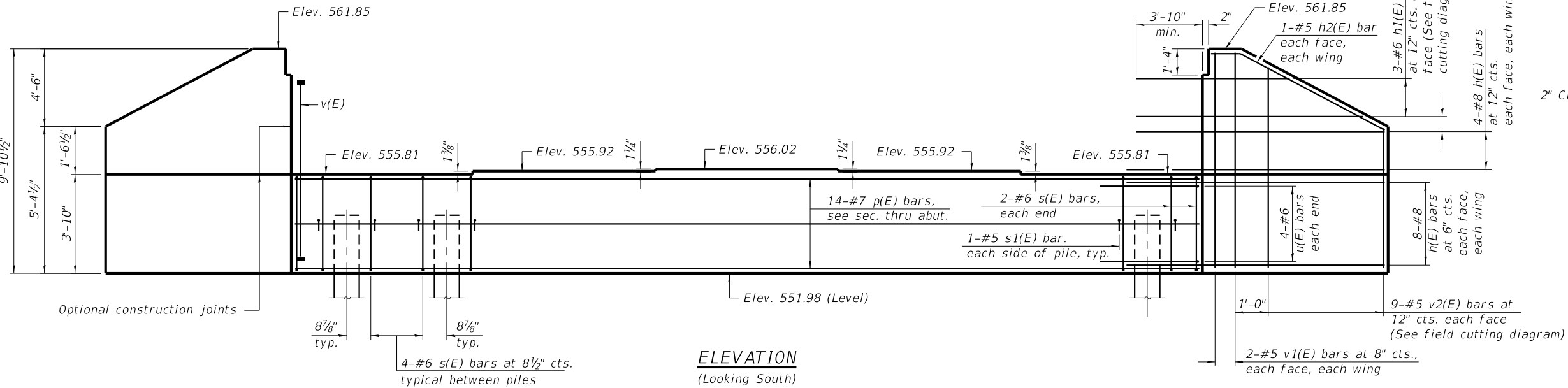
BEARING DETAILS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 16 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	36

WHA# 1247D13 CONTRACT NO. 87673

ILLINOIS FED. AID PROJECT

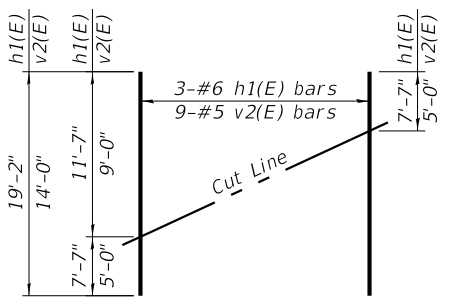


BILL OF MATERIAL

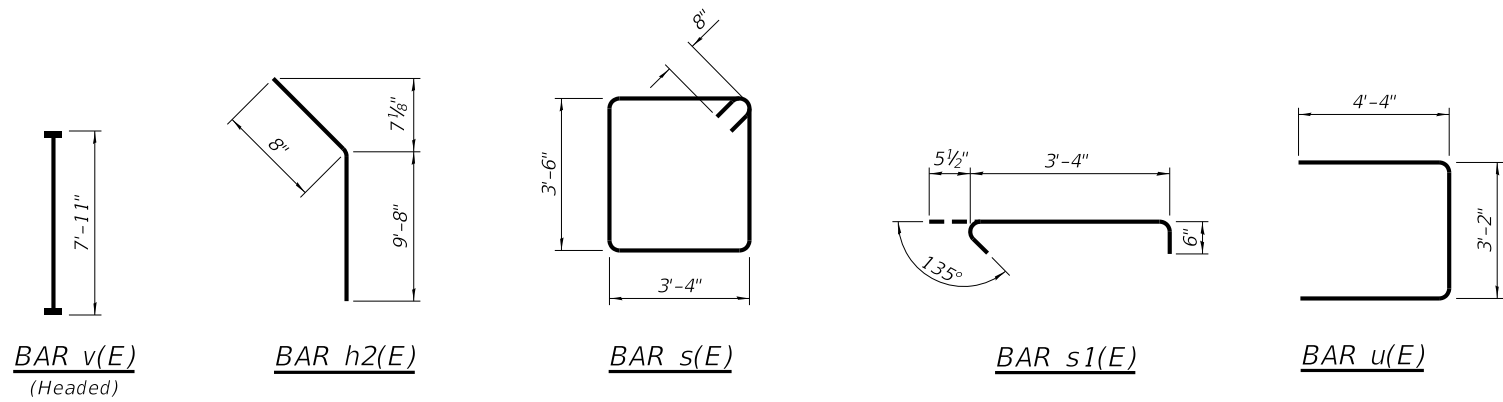
Bar	No.	Size	Length	Shape
h(E)	48	#8	16'-9"	—
h1(E)	12	#6	13'-10"	—
h2(E)	4	#5	10'-4"	—
p(E)	14	#7	32'-6"	—
s(E)	36	#6	15'-0"	□
s1(E)	16	#5	4'-4"	┌
u(E)	8	#6	11'-10"	—
v(E)	78	#8	7'-11"	—
v1(E)	8	#5	9'-6"	—
v2(E)	36	#5	14'-0"	—
Structure Excavation		Cu. Yd.	248	
Concrete Structures		Cu. Yd.	23.5	
Reinforcement Bars, Epoxy Coated		Pound	6,650	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	440	
Driving Piles		Foot	424	
Test Pile		Each	1	
Name Plate		Each	1	
Granular Backfill for Structures		Cu. Yds.	87	
Geocomposite Wall Drain		Sq. Yd.	28	
Pipe Underdrain for Structures 4"		Foot	61	

PILE DATA

Type: Metal Shell Piles, 14" Ø x 0.25"
 Nominal Required Bearing: 459 k
 Factored Resistance Available: 224 k
 Est. Length: 53'
 No. Production Piles: 8
 No. Test Piles: 1



FIELD CUTTING DIAGRAM
 Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



NOTES:

For details of piles see Structural Sheet 24 of 31.
 For drainage details, see Structural Sheet 3 of 31.
 Pour steps monolithically with cap.
 All exposed edges shall have 3/4" chamfers, except as noted.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

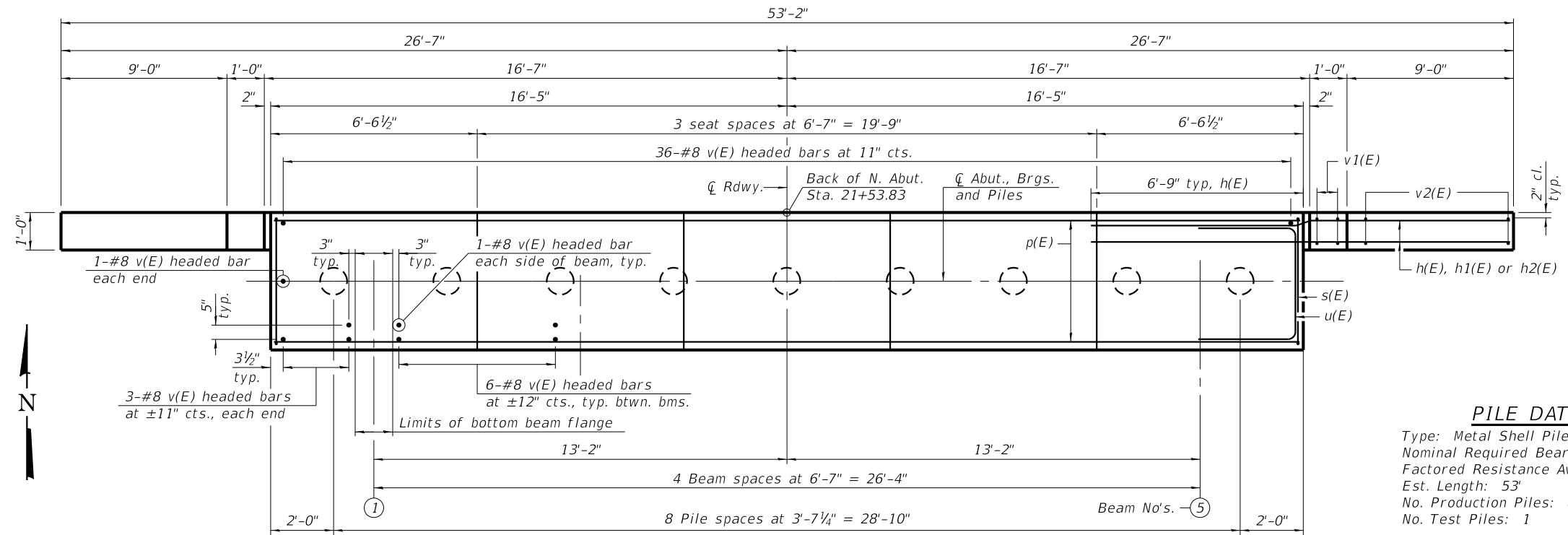
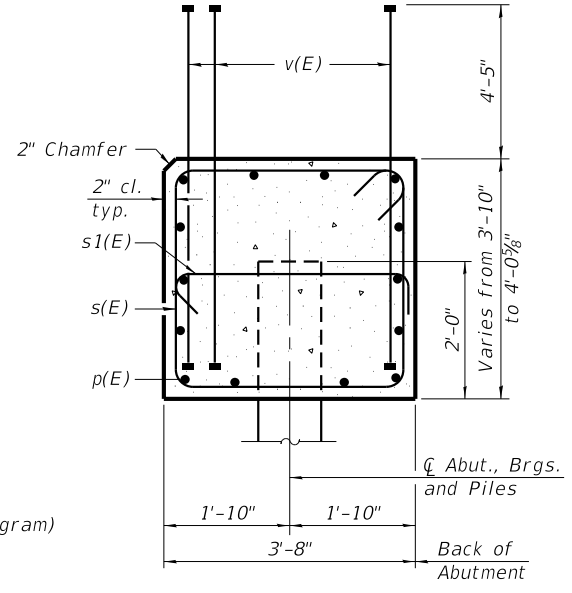
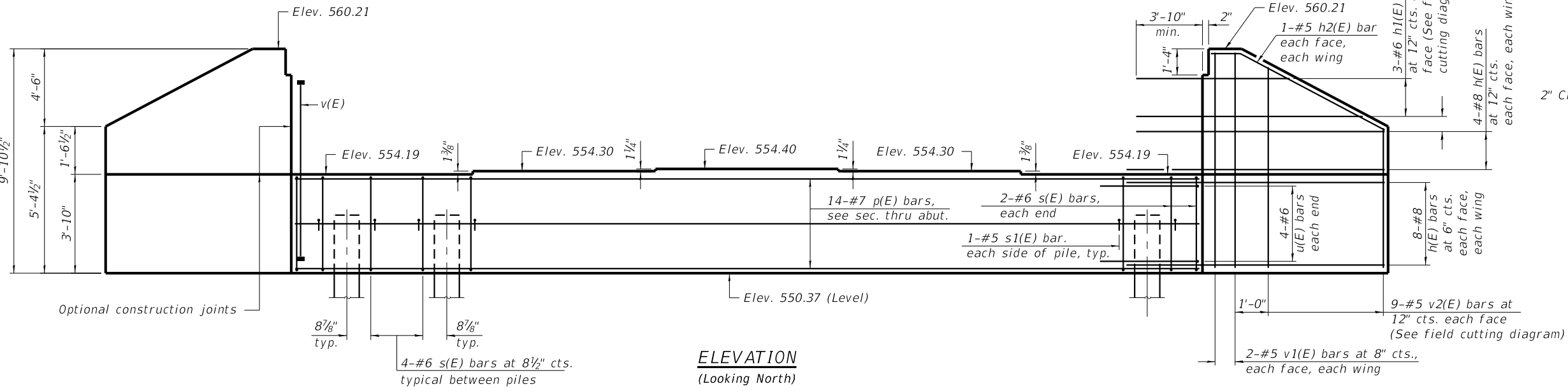
REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00

SOUTH ABUTMENT DETAILS
 STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 18 OF 31 SHEETS

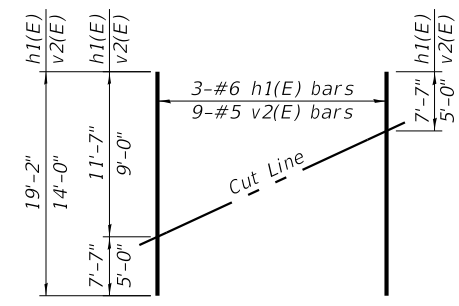
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	37
WHA* 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				



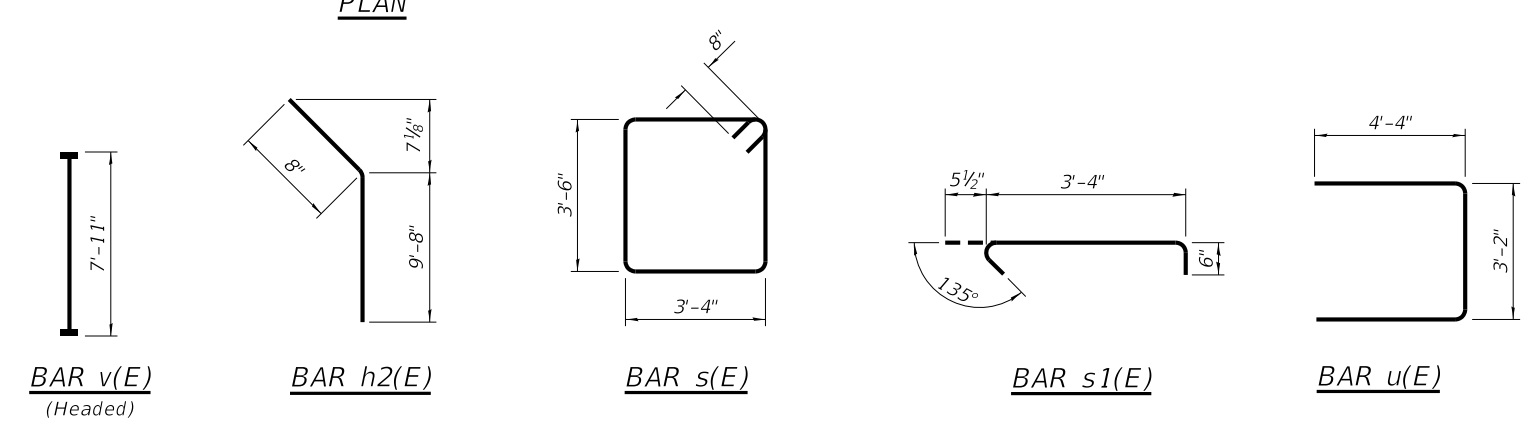
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#8	16'-9"	—
h1(E)	12	#6	13'-10"	—
h2(E)	4	#5	10'-4"	—
p(E)	14	#7	32'-6"	—
s(E)	36	#6	15'-0"	□
s1(E)	16	#5	4'-4"	┌
u(E)	8	#6	11'-10"	—
v(E)	78	#8	7'-11"	—
v1(E)	8	#5	9'-6"	—
v2(E)	36	#5	14'-0"	—
Structure Excavation		Cu. Yd.	227	
Concrete Structures		Cu. Yd.	23.5	
Reinforcement Bars, Epoxy Coated		Pound	6,650	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	440	
Driving Piles		Foot	424	
Test Pile		Each	1	
Granular Backfill for Structures		Cu. Yd.	85	
Geocomposite Wall Drain		Sq. Yd.	27	
Pipe Underdrain for Structures 4"		Foot	61	

PILE DATA
 Type: Metal Shell Piles, 14" Ø x 0.25"
 Nominal Required Bearing: 459 k
 Factored Resistance Available: 224 k
 Est. Length: 53'
 No. Production Piles: 8
 No. Test Piles: 1



FIELD CUTTING DIAGRAM
 Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



NOTES:
 For details of piles see Structural Sheet 24 of 31.
 For drainage details, see Structural Sheet 3 of 31.
 Pour steps monolithically with cap.
 All exposed edges shall have 3/4" chamfers, except as noted.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

REVISION	DATE	BY	REMARKS

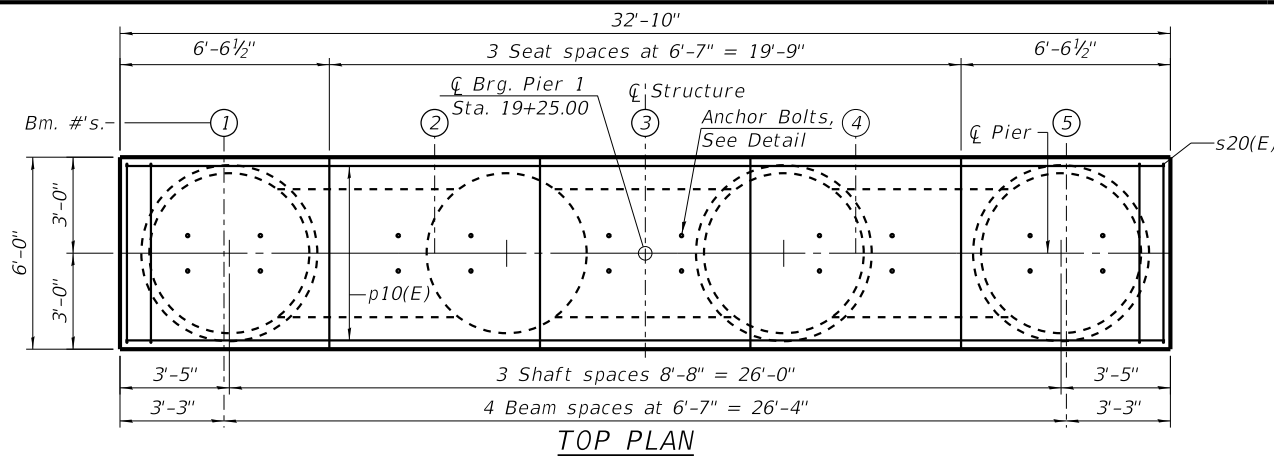
DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00

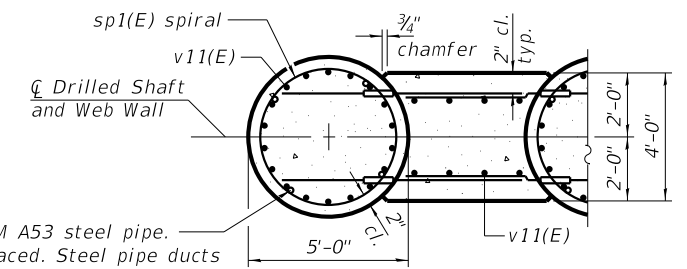


NORTH ABUTMENT DETAILS
 STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 19 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	38
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

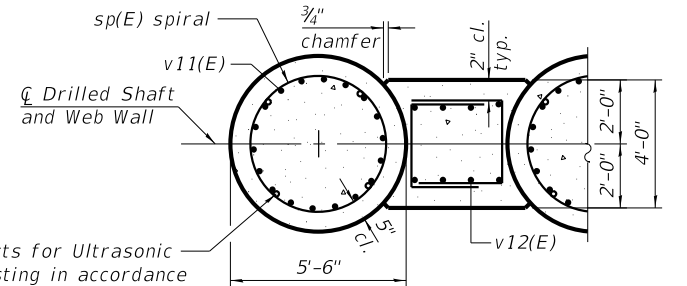


TOP PLAN



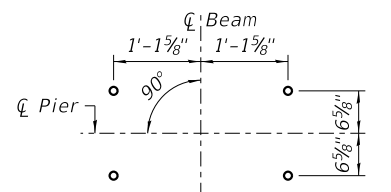
SECTION A-A

2" \varnothing standard ASTM A53 steel pipe. 4 places evenly spaced. Steel pipe ducts shall extend to the bottom of the drilled shaft. Steel conduits shall be installed in all drilled shafts. Payment for this item shall be incidental to the appropriate Drilled Shaft pay item.

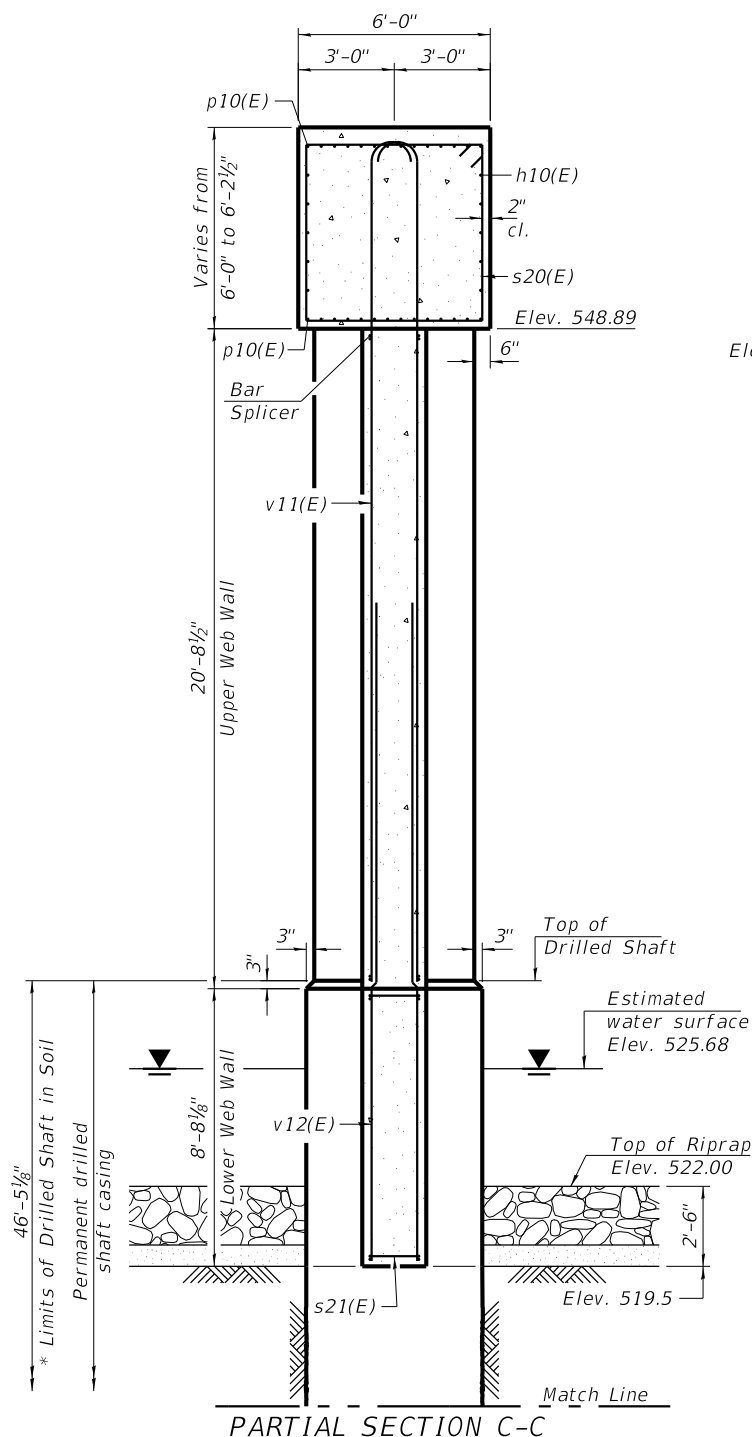


SECTION B-B

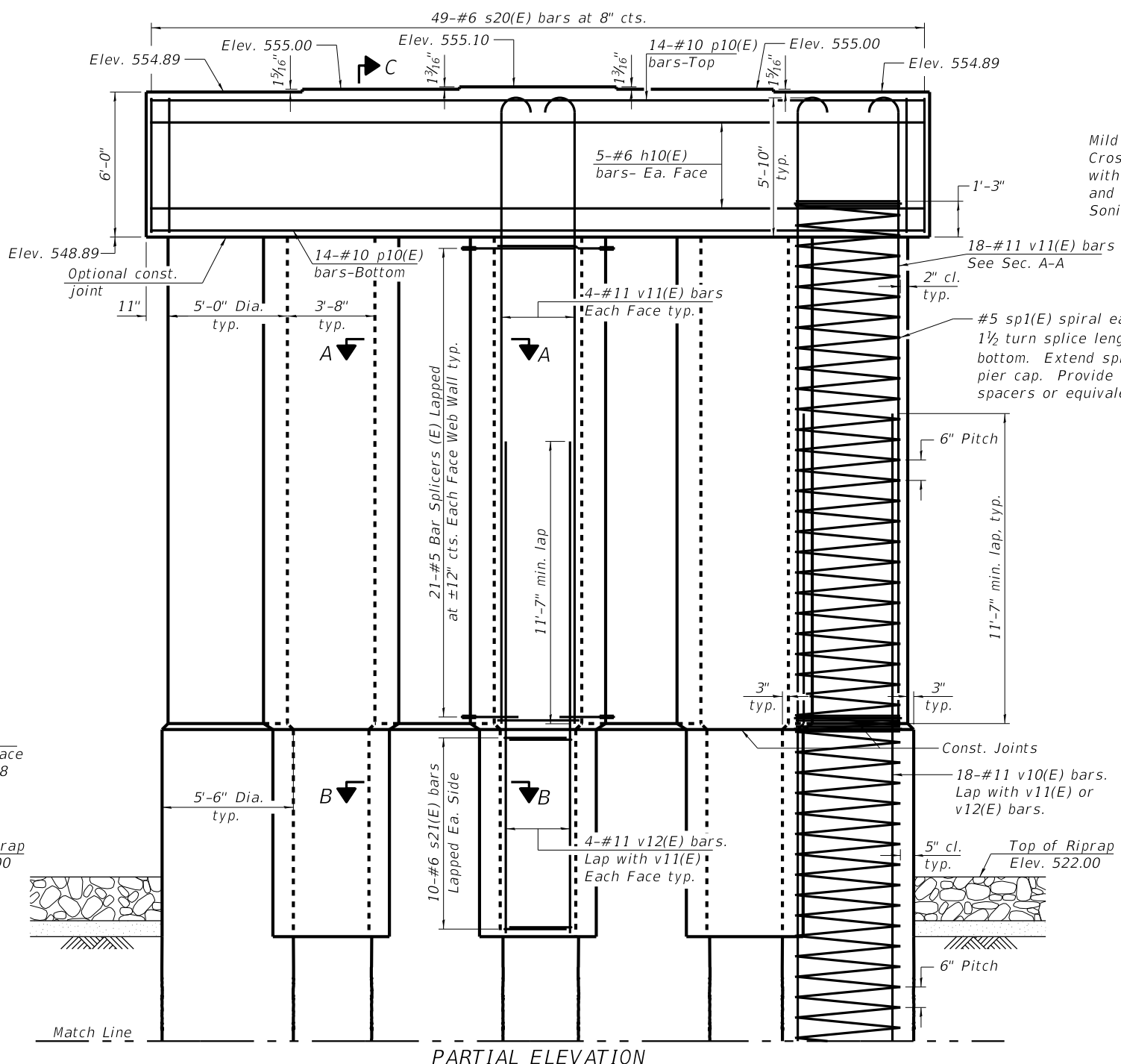
Mild steel ducts for Ultrasonic Crosshole Testing in accordance with Illinois Modified ASTM D6760 and GBSP91. Paid for as Crosshole Sonic Logging Access Ducts.



ANCHOR BOLT LAYOUT (Typical)



PARTIAL SECTION C-C



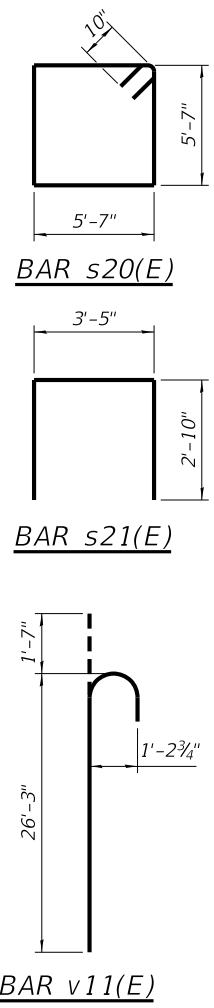
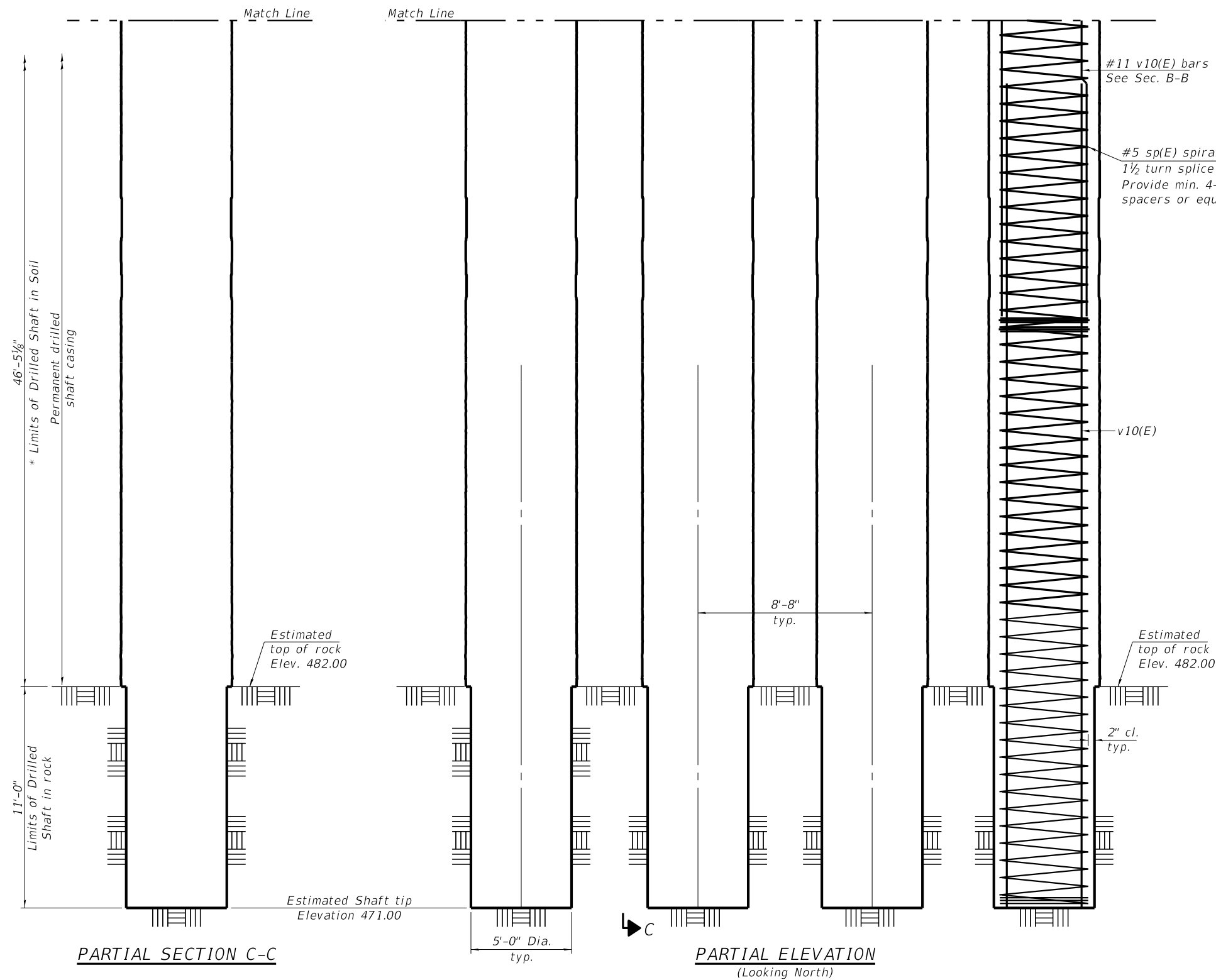
PARTIAL ELEVATION (Looking North)

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



PIER 1 DETAILS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 20 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	39
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#6	32'-6"	—
p10(E)	28	#10	32'-6"	—
s20(E)	49	#6	24'-0"	□
s21(E)	60	#6	9'-1"	U
** sp(E)	4	#5	57'-5"	⋈
** sp1(E)	4	#5	21'-11"	⋈
v10(E)	144	#11	40'-2"	—
v11(E)	96	#11	28'-1"	—
v12(E)	24	#11	20'-1"	—
Concrete Structures	Cu. Yd.	159.7		
Reinforcement Bars, Epoxy Coated	Pound	64,900		
Bar Splicers	Each	252		
Permanent Casing	Foot	186		
Drilled Shaft in Soil	Cu. Yd.	163.4		
Drilled Shaft in Rock	Cu. Yd.	32		
Crosshole Sonic Logging Access Ducts	Foot	919		
Crosshole Sonic Logging Testing	Each	4		

Cast steps monolithically with cap.
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 0'-9"
 ** Length is height of spiral.
 Furnished length of sp(E) bar = 7,106'-0"
 Furnished length of sp1(E) bar = 2763'-8"
 (Furnished lengths and weight quantities include 1 hooked splice along the height per sp bar and furnished length is for all 4 shafts).

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

- Construction Sequence for Web Wall:**
- Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required.
 - Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
 - If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
 - Construct Columns.
 - Construct upper web walls.

REVISION	DATE	BY	REMARKS

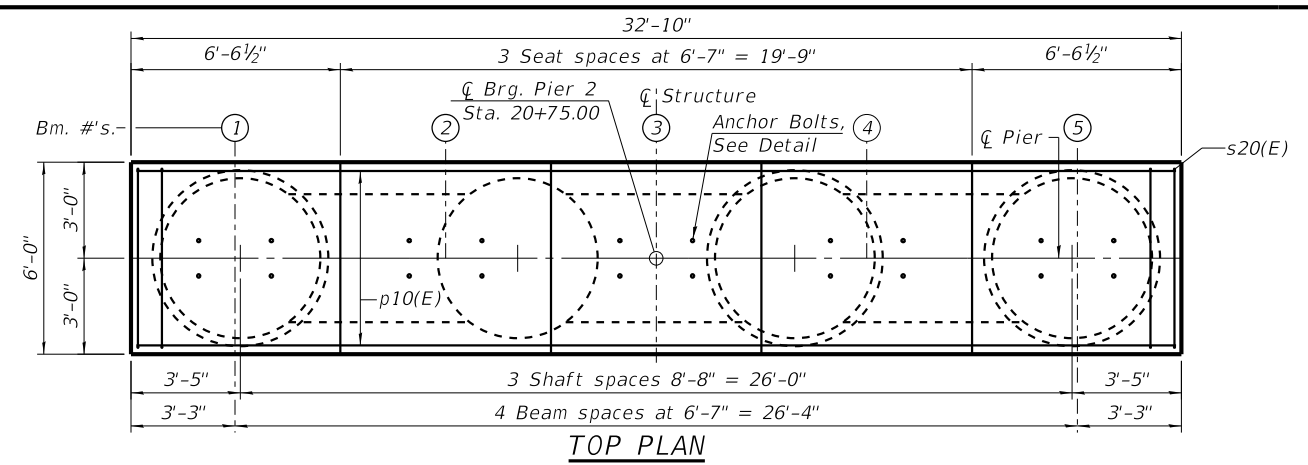
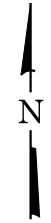
DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
 F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
 STATION 20+00.00



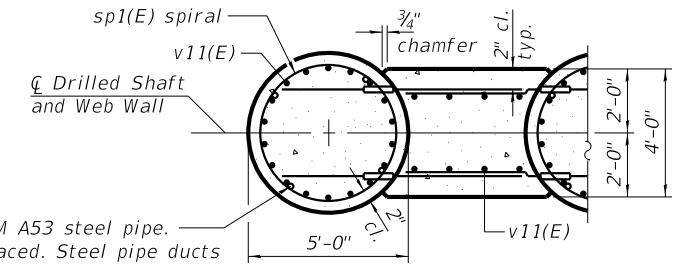
PIER 1 DETAILS
 STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 21 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	40
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				

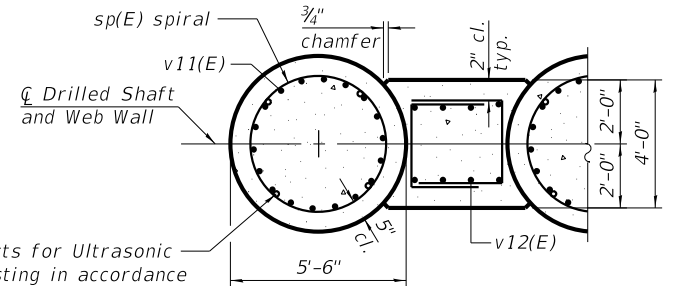


TOP PLAN

2" Ø standard ASTM A53 steel pipe.
4 places evenly spaced. Steel pipe ducts shall extend to the bottom of the drilled shaft. Steel conduits shall be installed in all drilled shafts. Payment for this item shall be incidental to the appropriate Drilled Shaft pay item.

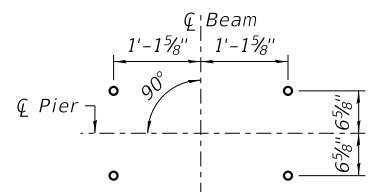


SECTION A-A

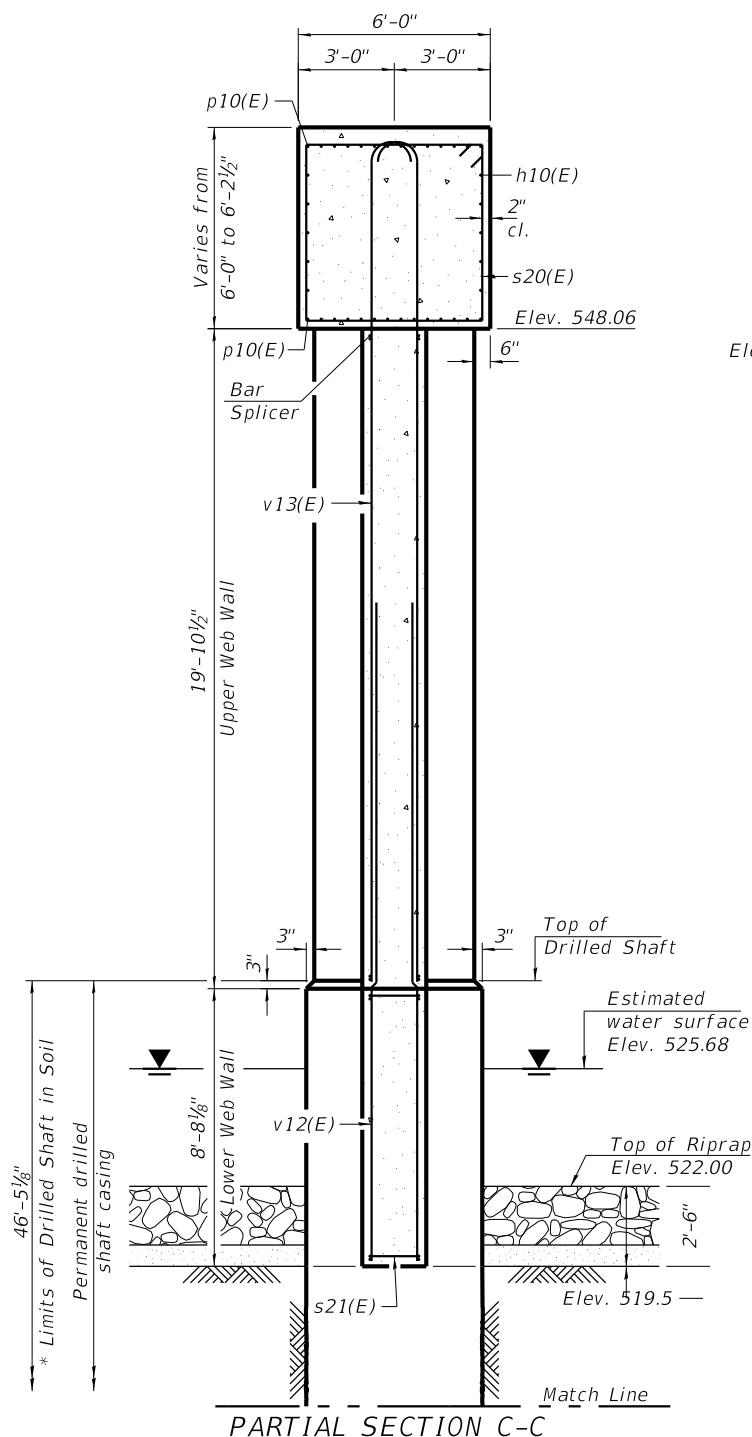


SECTION B-B

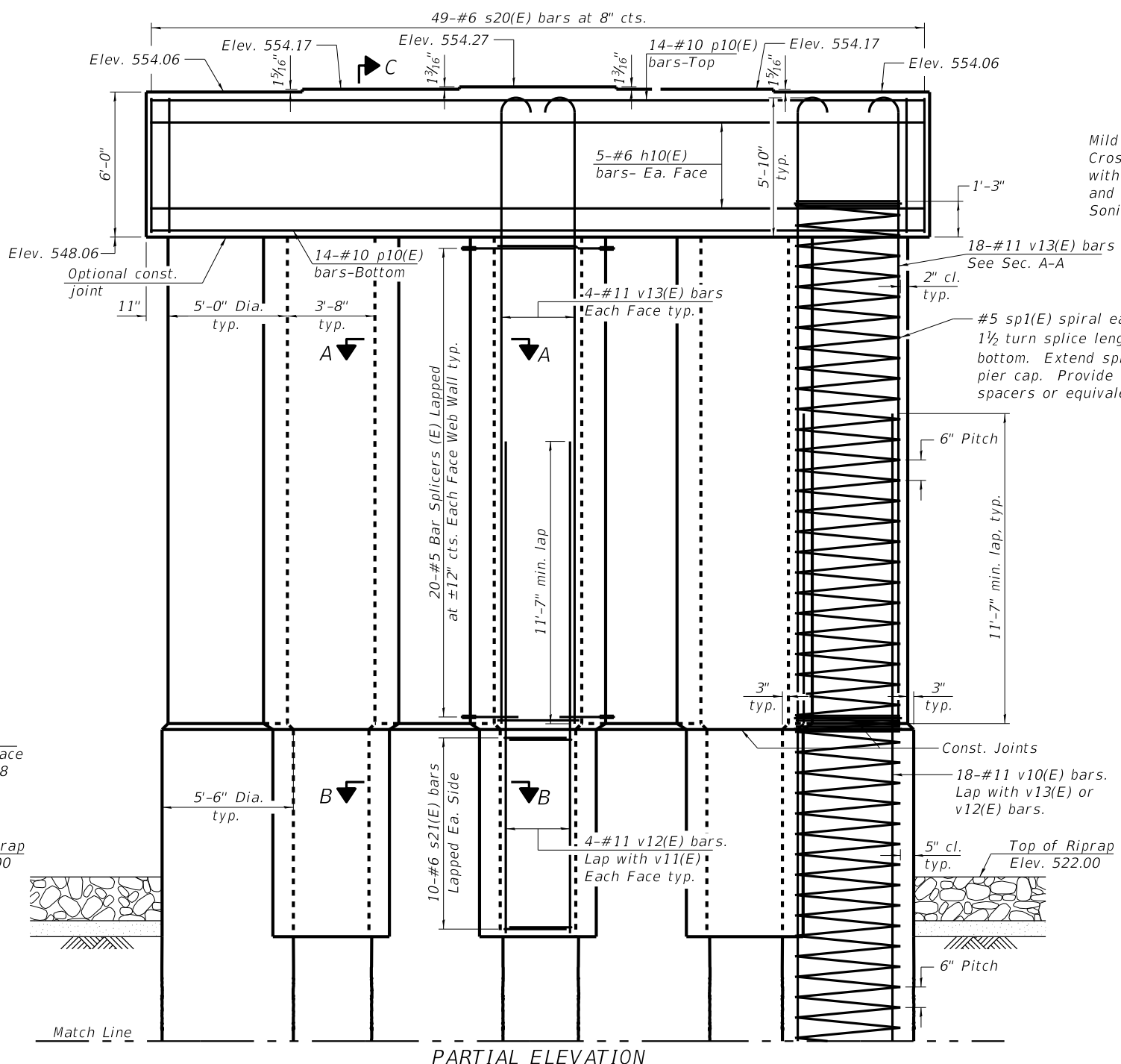
Mild steel ducts for Ultrasonic Crosshole Testing in accordance with Illinois Modified ASTM D6760 and GBSP91. Paid for as Crosshole Sonic Logging Access Ducts.



ANCHOR BOLT LAYOUT (Typical)



PARTIAL SECTION C-C



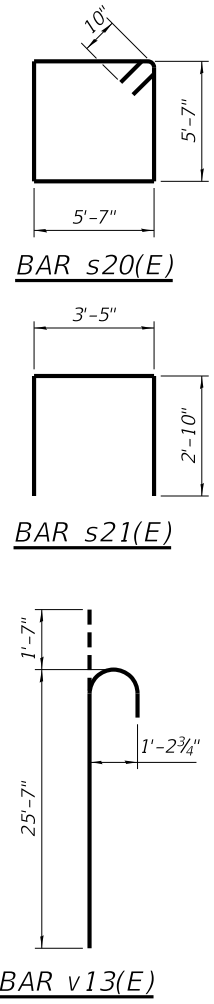
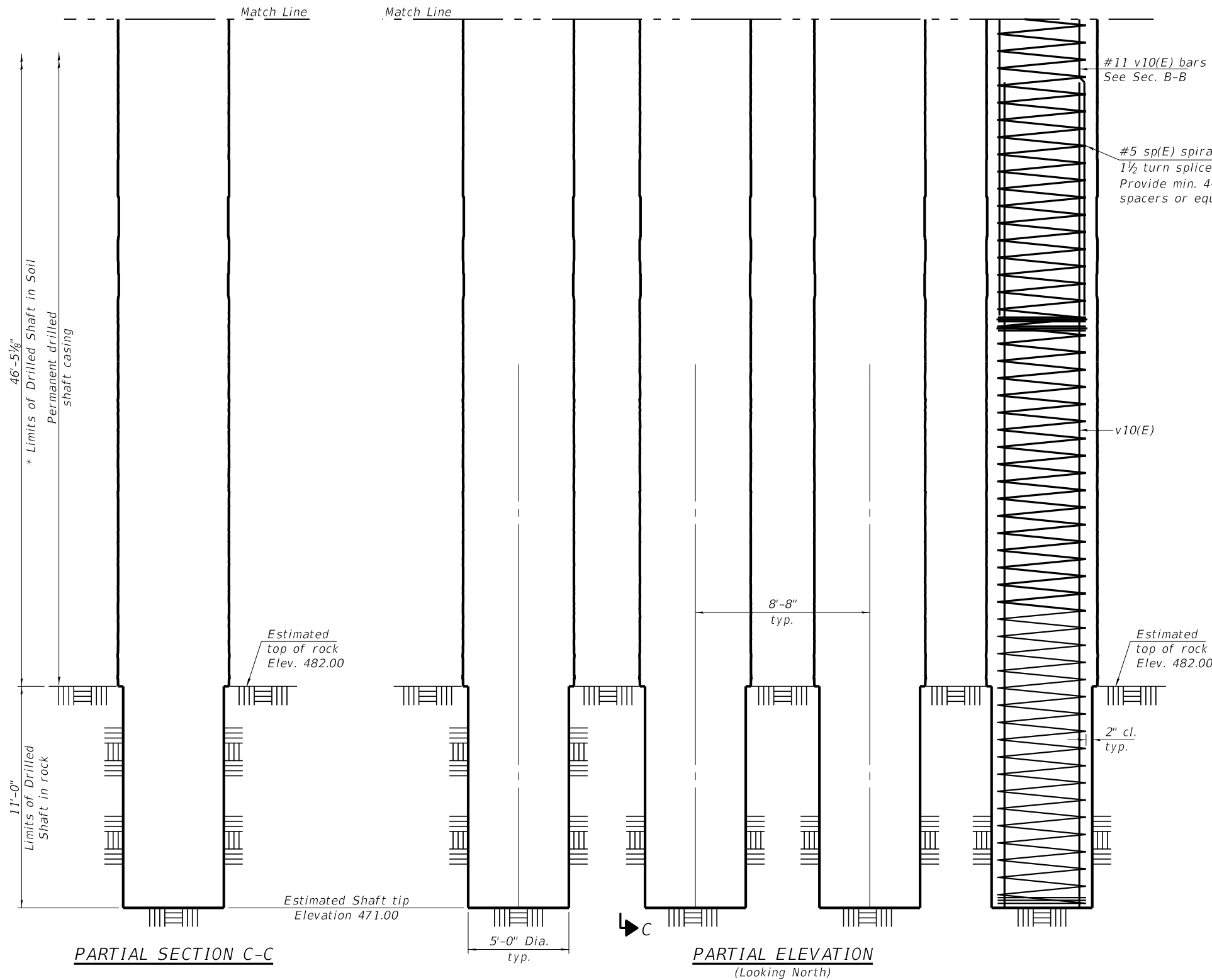
PARTIAL ELEVATION (Looking North)

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

PIER 2 DETAILS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 22 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	41
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	10	#6	32'-6"	—
p10(E)	28	#10	32'-6"	—
s20(E)	49	#6	24'-0"	□
s21(E)	60	#6	9'-1"	U
** sp(E)	4	#5	57'-5"	⋈
** sp1(E)	4	#5	21'-1"	⋈
v10(E)	144	#11	40'-2"	—
v12(E)	24	#11	20'-1"	—
v13(E)	96	#11	27'-3"	U
Concrete Structures	Cu. Yd.	155.5		
Reinforcement Bars, Epoxy Coated	Pound	64,350		
Bar Splicers	Each	240		
Permanent Casing	Foot	186		
Drilled Shaft in Soil	Cu. Yd.	163.4		
Drilled Shaft in Rock	Cu. Yd.	32		
Crosshole Sonic Logging Access Ducts	Foot	919		
Crosshole Sonic Logging Testing	Each	4		

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

- Construction Sequence for Web Wall:**
- Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required.
 - Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
 - If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
 - Construct Columns.
 - Construct upper web walls.

REVISION	DATE	BY	REMARKS

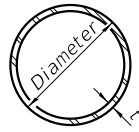
DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



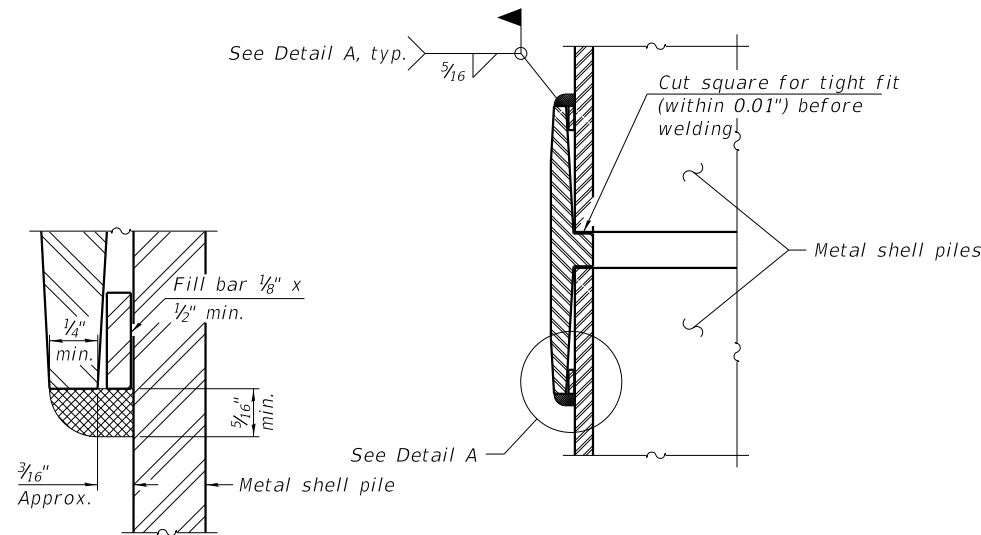
PIER 2 DETAILS
STRUCTURE NO. 050-3627
 STRUCTURAL SHEET 23 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	42
WHA# 1247D13		CONTRACT NO.	87673	
ILLINOIS FED. AID PROJECT				

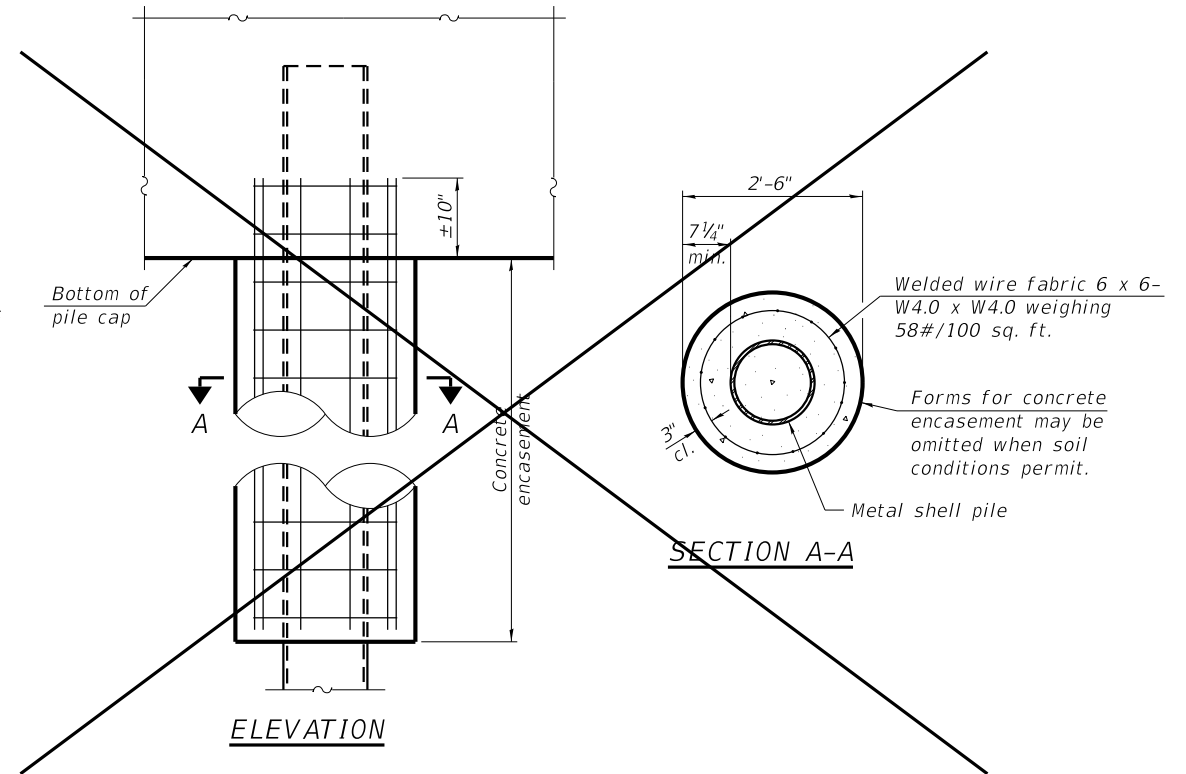


METAL SHELL PILE TABLE

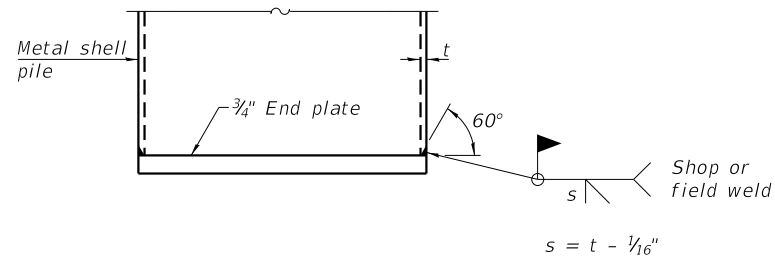
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A



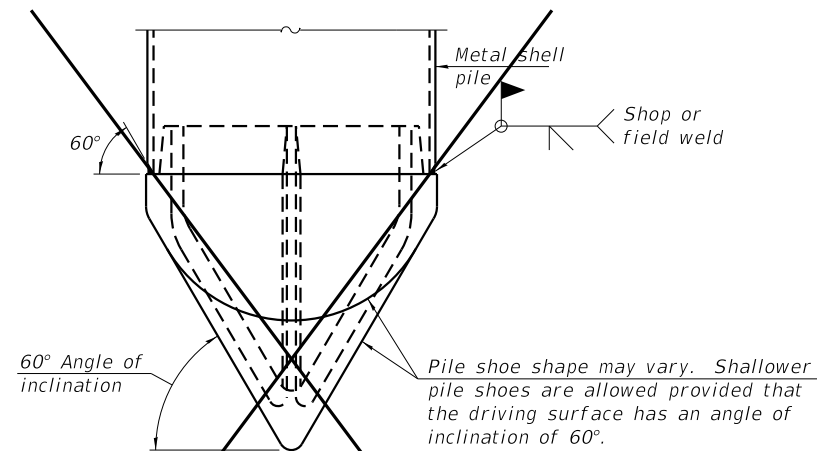
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

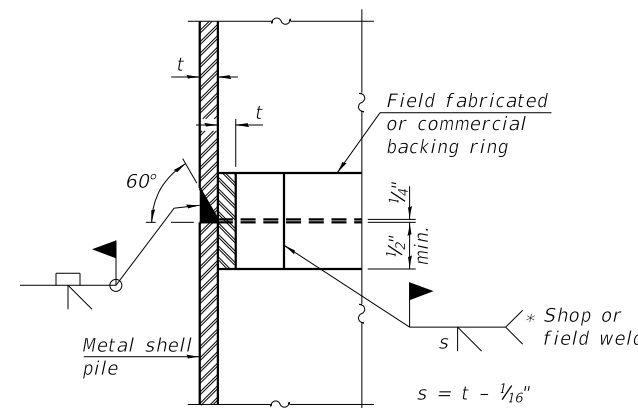
WELDED COMMERCIAL SPLICE

NOTES:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



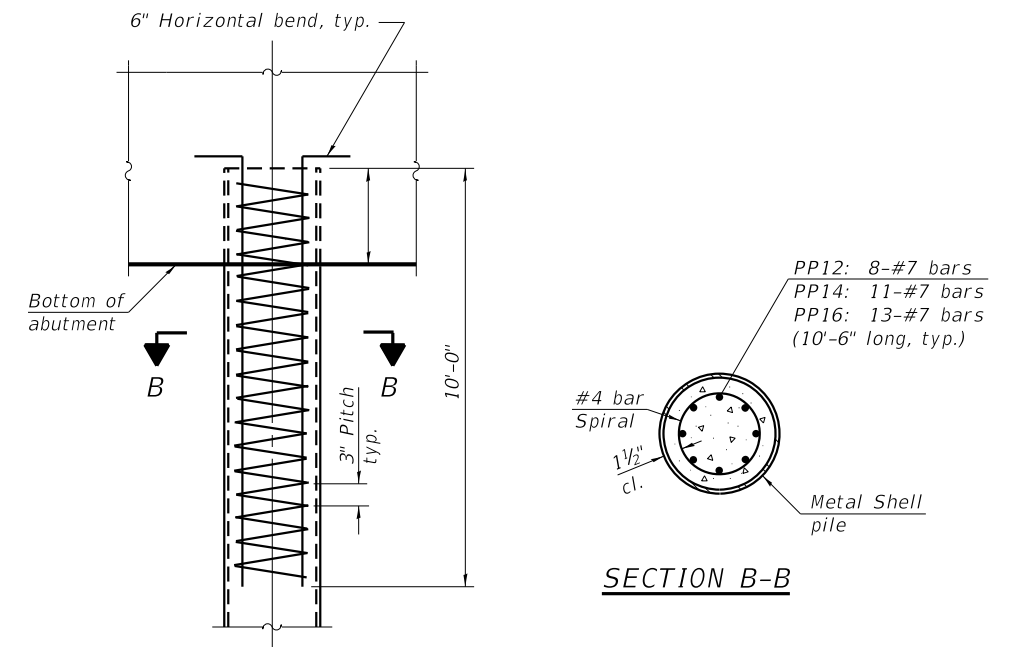
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

NOTE:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

REVISION	DATE	BY	REMARKS

DESIGNED	DCB
DRAWN	FDL
REVIEWED	BKC
APPROVED	DCB

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



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

METAL SHELL PILE DETAILS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 24 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	43
WHA# 1247D13		CONTRACT NO.		87673
ILLINOIS FED. AID PROJECT				

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3705 Progress Blvd., Suite 2
Peru, Illinois, 61354
815-780-8486

SOIL BORING LOG

Solutions You Can Build On

Date 10/28/19

ROUTE CH-57 DESCRIPTION N. Abutment SB Lane Red, White & Blue Bridge LOGGED BY TLM

SECTION 15-00760-00-BR LOCATION SW 1/4, SEC. 30, TWP. 32N, RNG. 3, 3rd PM, Latitude, Longitude

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-3150
Station _____

BORING NO. SB-04
Station 21+64
Offset 7.0 ft Lt.
Ground Surface Elev. 559.00 ft

DEPTH (ft)	BLOW S (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. - ft	DEPT H (ft)	BLOW S (ft)	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------	--------------------------	-------------	-------------	-----------	-----------

HMA, Agg base									Loose brown Loamy Sand
	11					2			
557.00	10	3.0	11			1	0.7	21	
	4	P				3	B		
556.00									
Stiff brownish-gray Clay Loam fill, moist									
553.50	2					2			
	2	1.2	13			2	-	17	
	3	B				2			
553.50									
Stiff gray brown Clay fill, moist									
	3					2			
	4	1.9	24			3	0.5	21	
	3	B							
531.00									
Loose brown Silty Sand, moist									
	2					2			
	3	2.0	20			3	-	21	
	3	B				3			
527.00									
Loose gravel with some Sand, wet									
	2					4			
	3	0.8	22			4	1.5	20	
	3	B				8	B		
524.50									
Stiff gray Clay Loam									
	2								
	2	0.7	20						
	2	B							
522.00									
Medium dense Fine Sand									
	1					6			
	1	0.6	20			13	-	18	
	1	B				12			
539.00									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



3705 Progress Blvd., Suite 2
Peru, Illinois, 61354
815-780-8486

SOIL BORING LOG

Solutions You Can Build On

Date 10/28/19

ROUTE CH-57 DESCRIPTION N. Abutment SB Lane Red, White & Blue Bridge LOGGED BY TLM

SECTION 15-00760-00-BR LOCATION SW 1/4, SEC. 30, TWP. 32N, RNG. 3, 3rd PM, Latitude, Longitude

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-3150
Station _____

BORING NO. SB-04
Station 21+64
Offset 7.0 ft Lt.
Ground Surface Elev. 559.00 ft

DEPTH (ft)	BLOW S (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. - ft	DEPT H (ft)	BLOW S (ft)	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------	--------------------------	-------------	-------------	-----------	-----------

Medium dense Fine Sand (continued)									Medium dense brown Medium Coarse Sand (continued)
517.00									
Loose gray Silt, trace Very Fine Sand, wet									
	4								11
	4	-	30						13
	5								13
507.00									
Medium dense brown Medium Coarse Sand									
	12								9
	12	-	26						14
	12								14
507.00									
Medium dense brown Medium Coarse Sand									
	10								10
	13	-	17						10
	13								13
487.00									
Medium dense gray Medium Coarse to Coarse Sand									
482.00									
Limestone									
	8								50/1"
	11	-	21						
	15								
479.00									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

REVISION	DATE	BY	REMARKS
DESIGNED	DCB		
DRAWN	FDL		
REVIEWED	BKC		
APPROVED	DCB		

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

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

SOIL BORING LOGS
STRUCTURE NO. 050-3627
STRUCTURAL SHEET 30 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	49
	WHA# 1247D13			CONTRACT NO. 87673
				ILLINOIS FED. AID PROJECT

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 815-780-8486

SOIL BORING LOG

Solutions You Can Build On

Date 10/28/19

ROUTE CH-57 DESCRIPTION N. Abutment SB Lane Red, White & Blue Bridge LOGGED BY TLM

SECTION 15-00760-00-BR LOCATION SW 1/4, SEC. 30, TWP. 32N, RNG. 3, 3rd PM, Latitude, Longitude

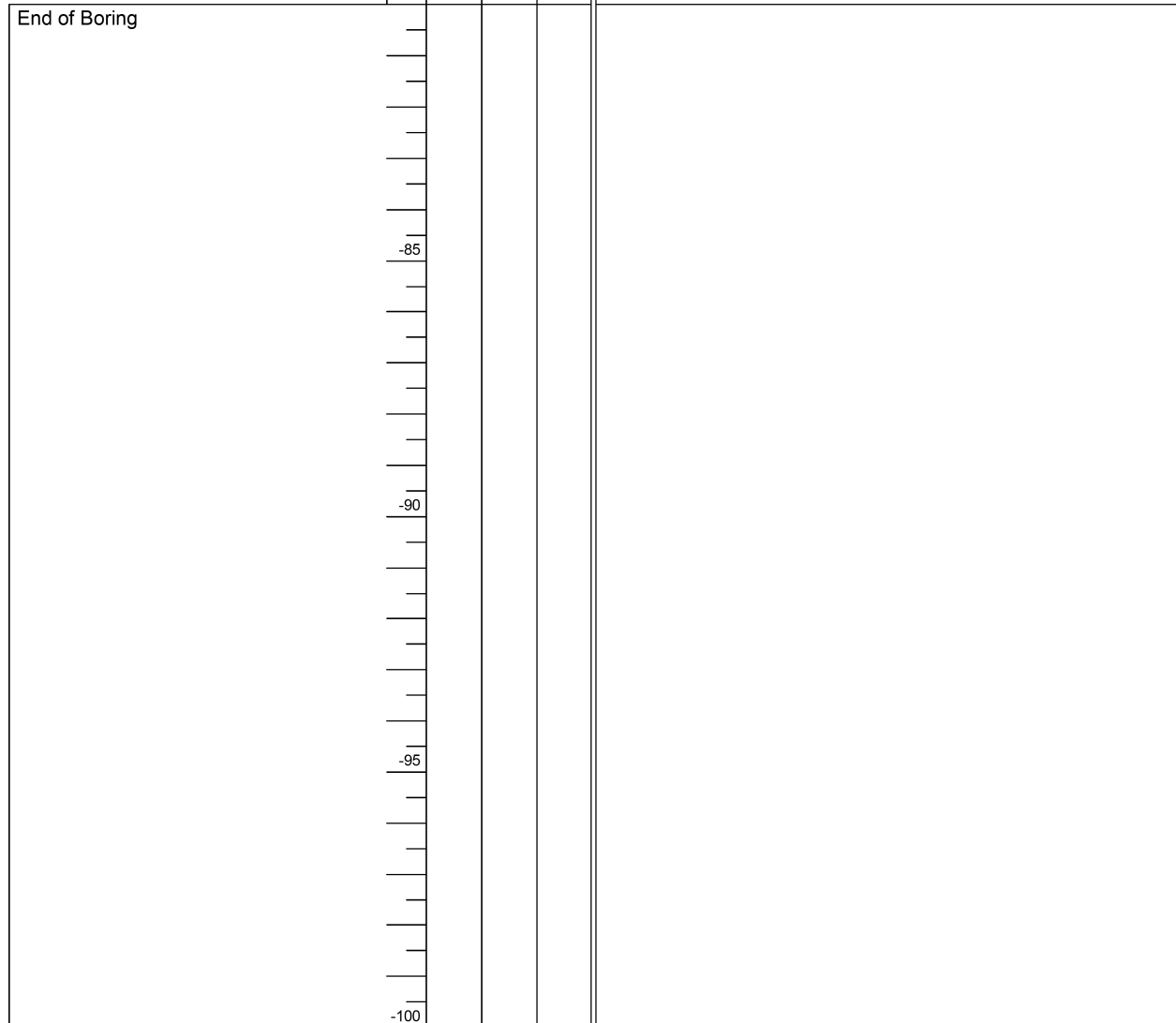
COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-3150
 Station

BORING NO. SB-04
 Station 21+64
 Offset 7.0 ft Lt.
 Ground Surface Elev. 559.00 ft

D E P T H	B L O W S	U C S Qu	M O I S T
(ft)	(/6")	(tsf)	(%)

Surface Water Elev. - ft
 Stream Bed Elev. - ft
 Groundwater Elev.:
 First Encounter 527.0 ft ▼
 Upon Completion - ft
 After - Hrs. - ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

REVISION	DATE	BY	REMARKS
DESIGNED	DCB		
DRAWN	FDL		
REVIEWED	BKC		
APPROVED	DCB		

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

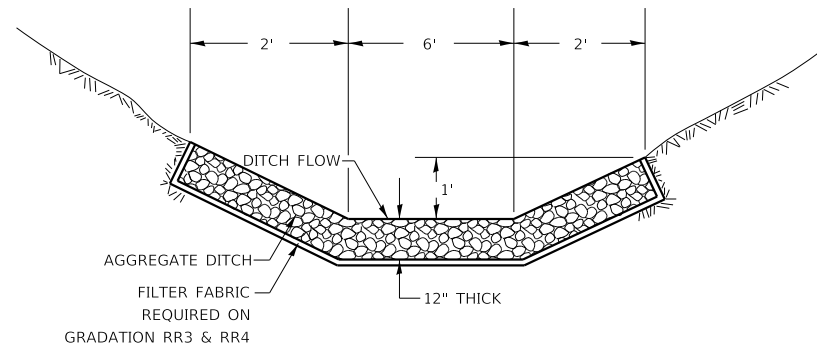
WILLET HOFMANN & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

SOIL BORING LOGS
STRUCTURE NO. 050-3627

STRUCTURAL SHEET 31 OF 31 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	50
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING

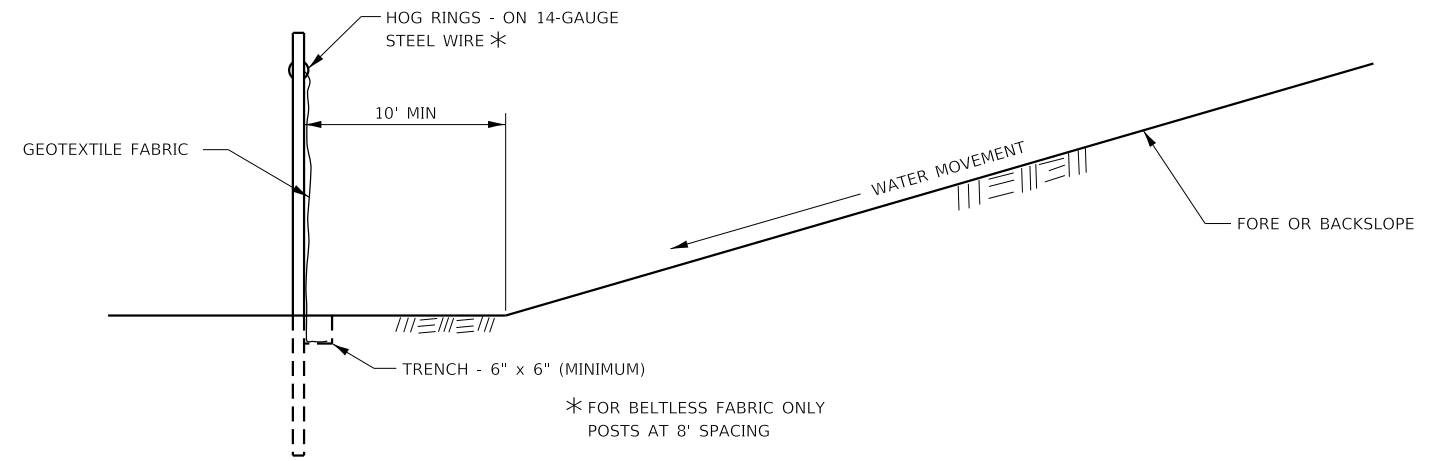
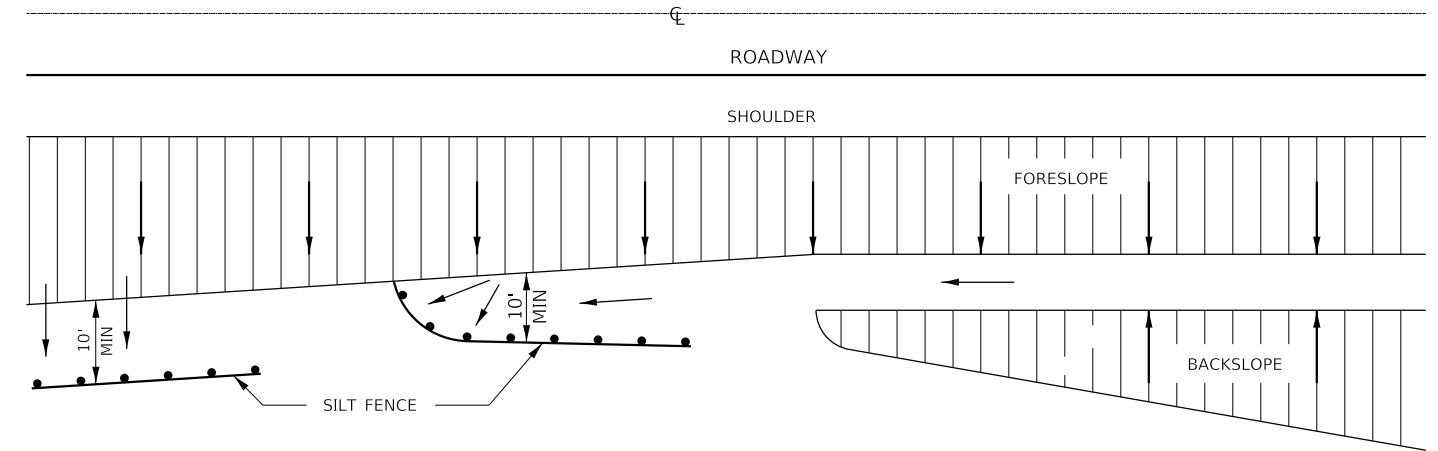


CLASS A4 WILL BE REQUIRED ON THIS PROJECT AT THE LOCATION SHOWN ON THE PLANS.

THIS WORK SHALL BE DONE ACCORDING TO SECTION 283 OF THE STANDARD SPECIFICATION. AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN TON OF ACTUAL SURFACE AREA. AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE DITCH. FILTER FABRIC WILL BE MEASURED FOR PAYMENT ACCORDING TO SECTION 282 OF THE STANDARD SPECIFICATION..

AGGREGATE DITCH

EROSION CONTROL DETAILS FOR SILT FENCE



* FOR BELTLESS FABRIC ONLY
POSTS AT 8' SPACING

DETAILS OF SILT FENCE

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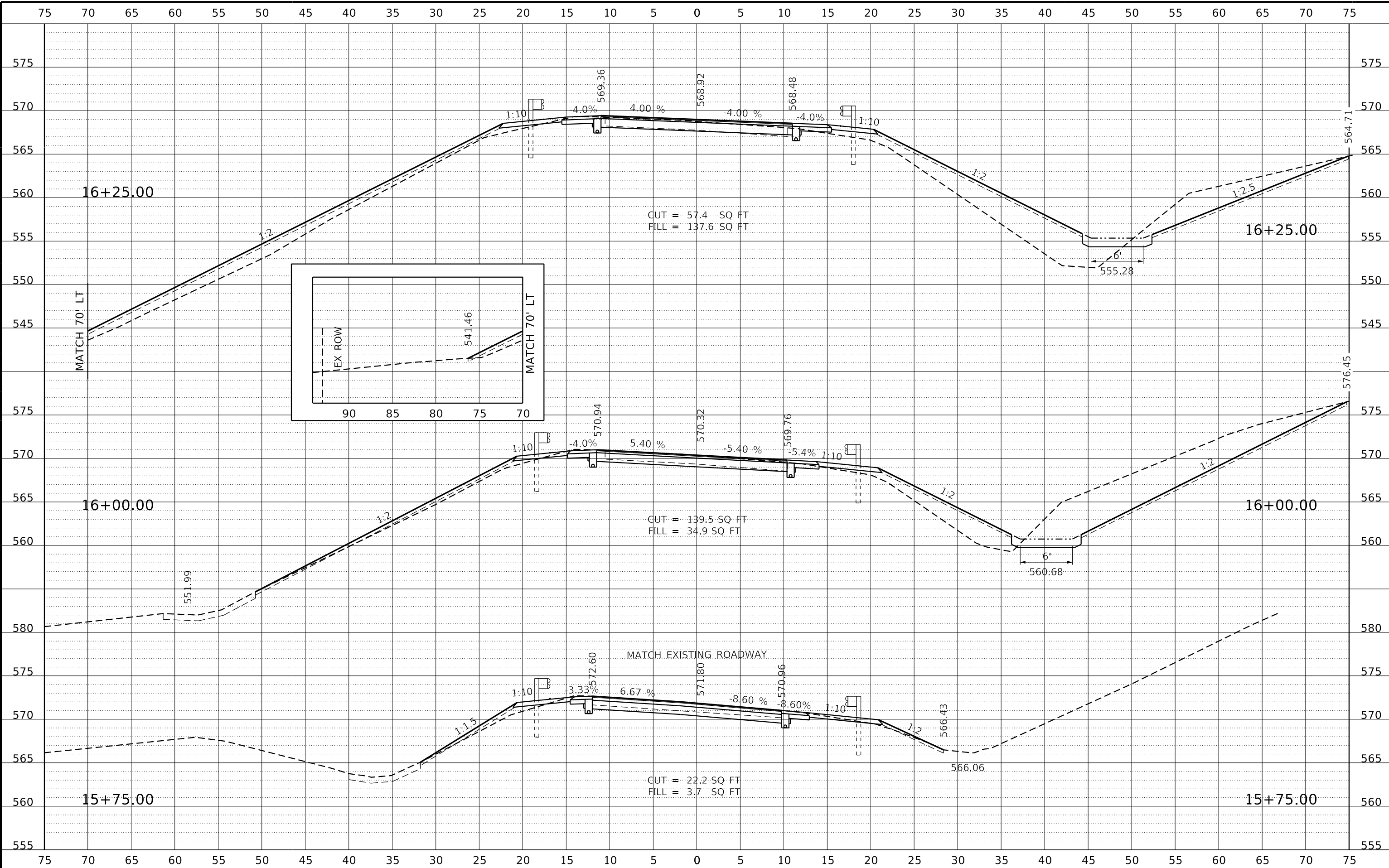
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DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

SPECIAL DETAILS
DISTRICT 3 STANDARDS
SHEET 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	51
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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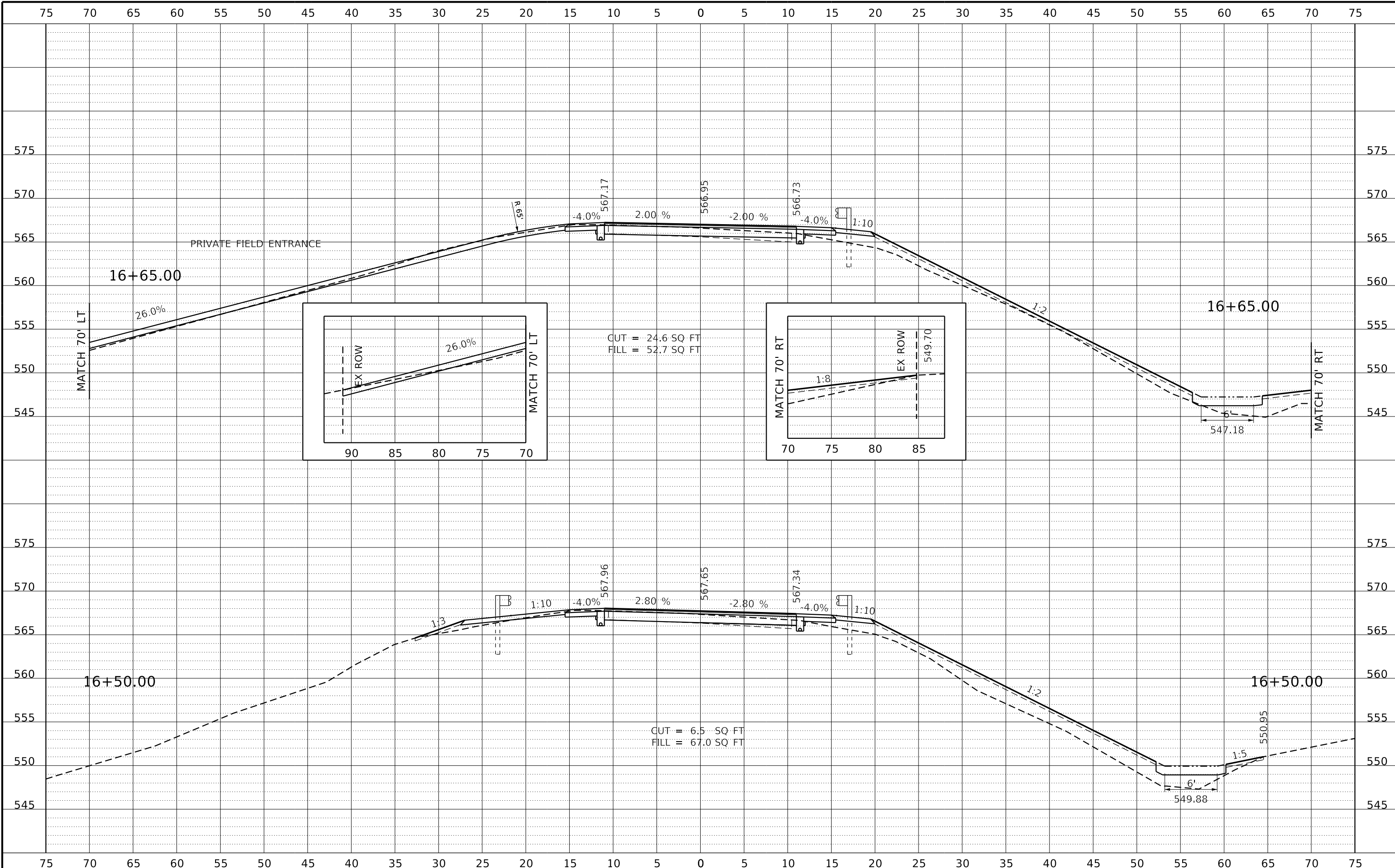
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DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 1 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	52
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



REVISION	DATE	BY	REMARKS

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REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

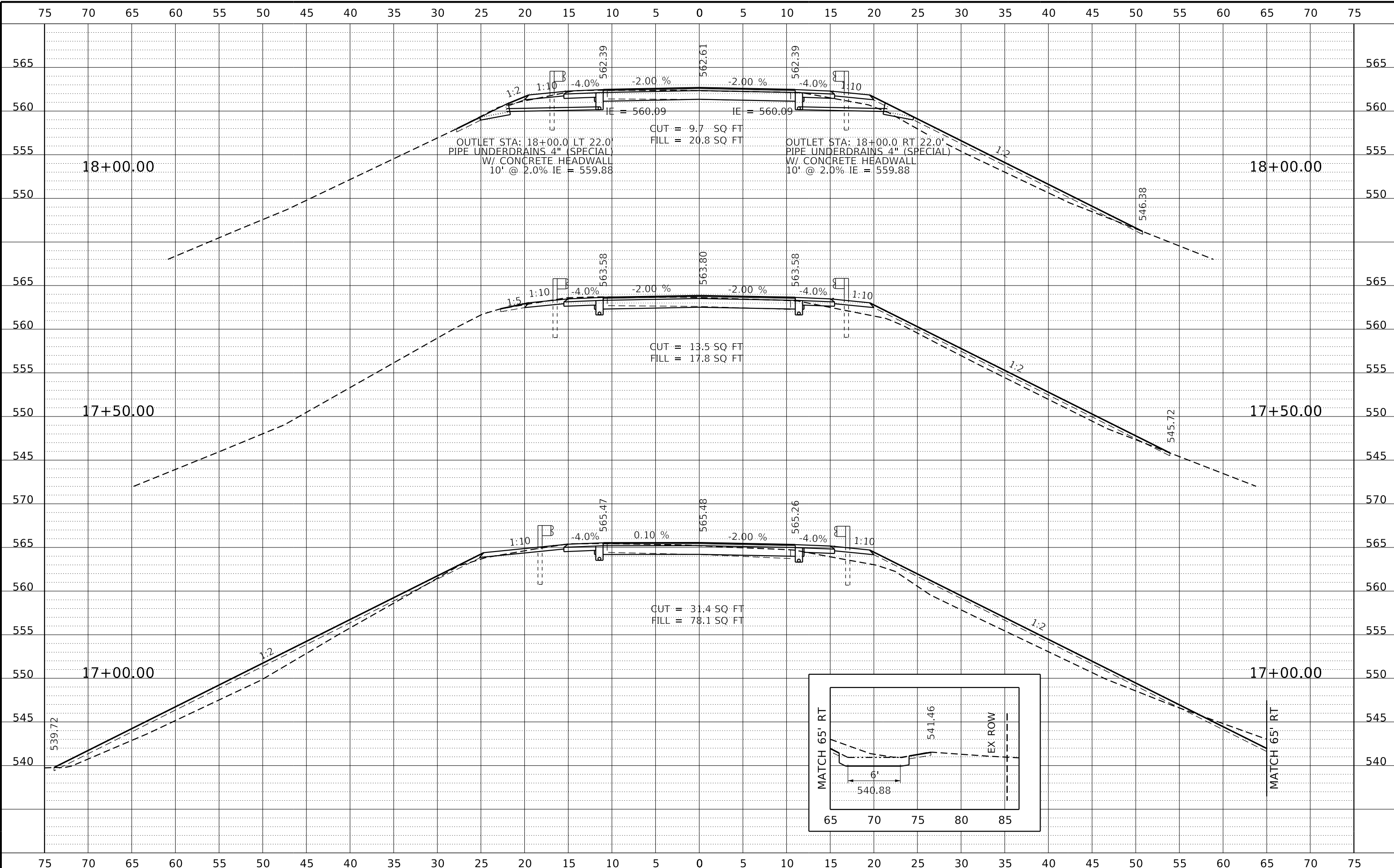


F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 2 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	53
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

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REVIEWED	GFS
APPROVED	GFS

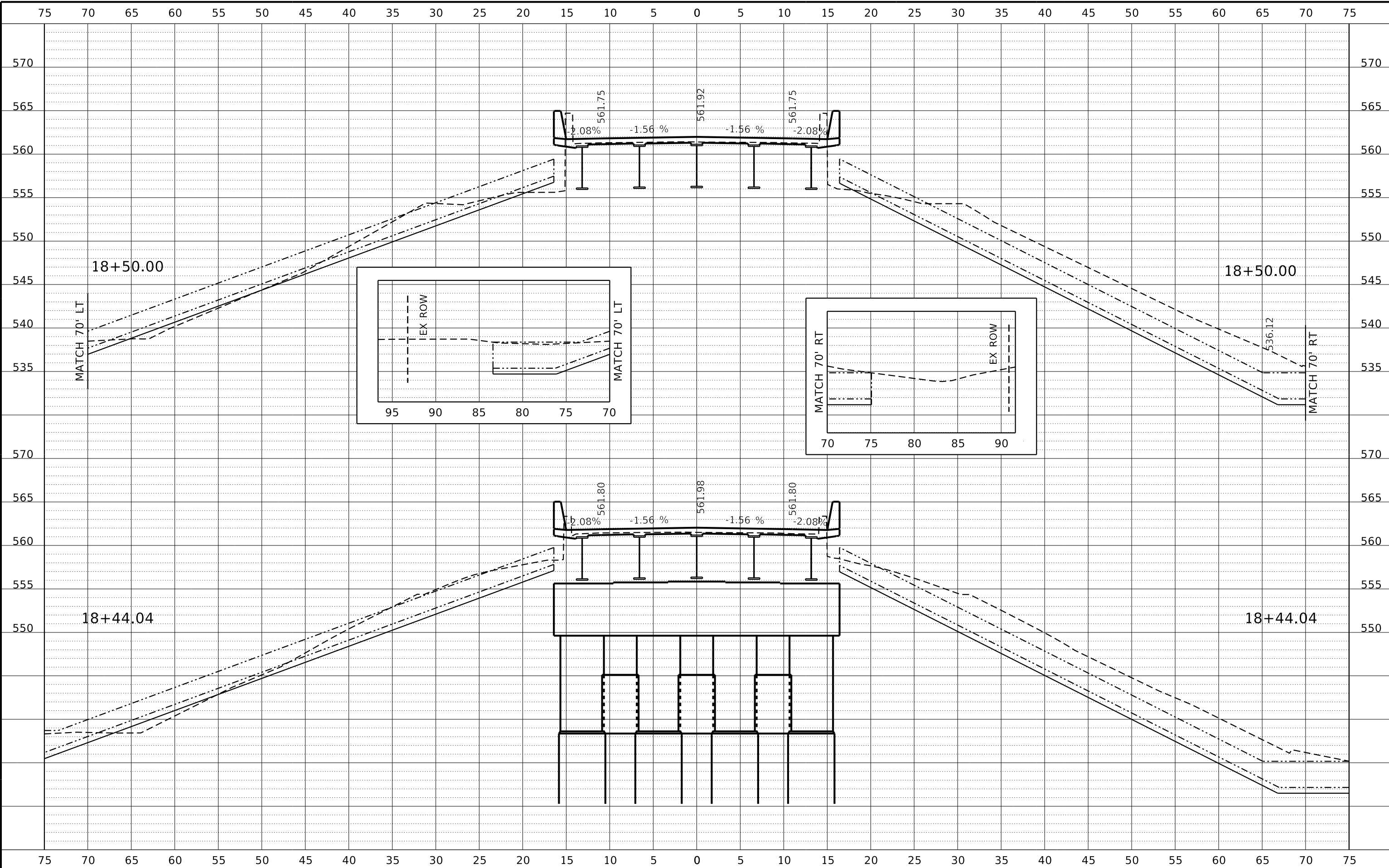
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 3 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	54
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	GBG
DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00

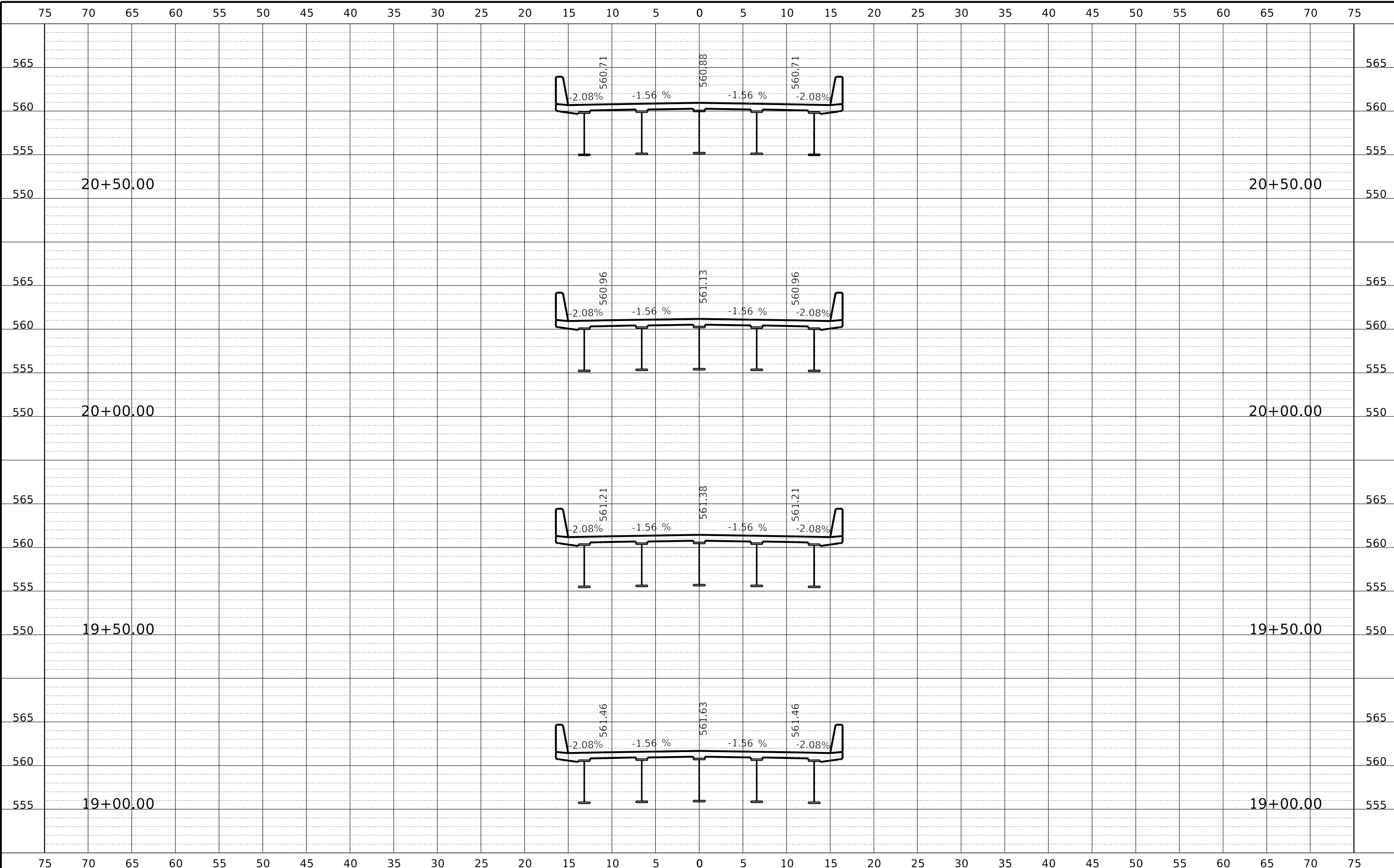


F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 4 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	55
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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REVISION	DATE	BY	REMARKS

DESIGNED	GBG
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REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



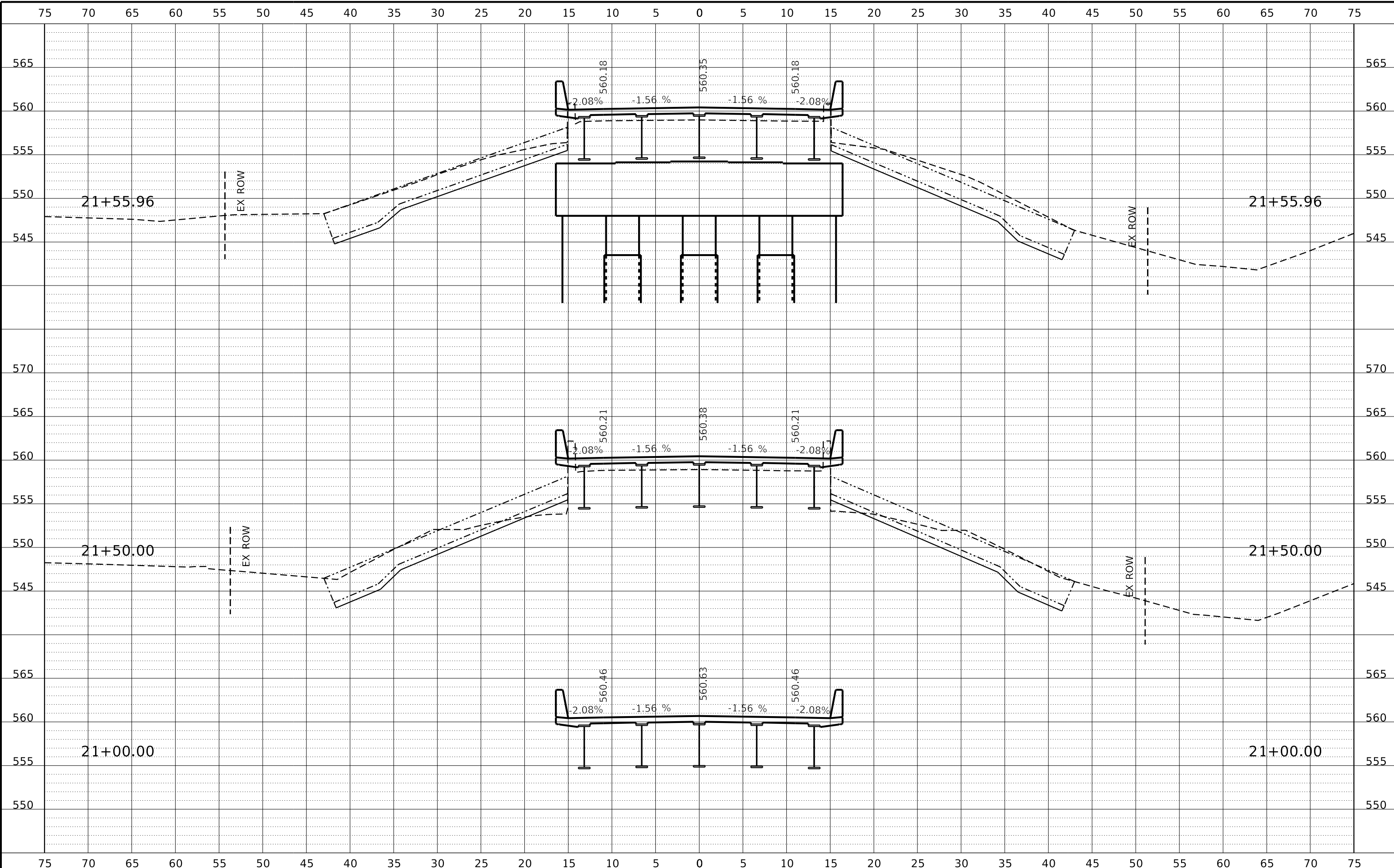
F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 5 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	56
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				

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APPROVED	GFS

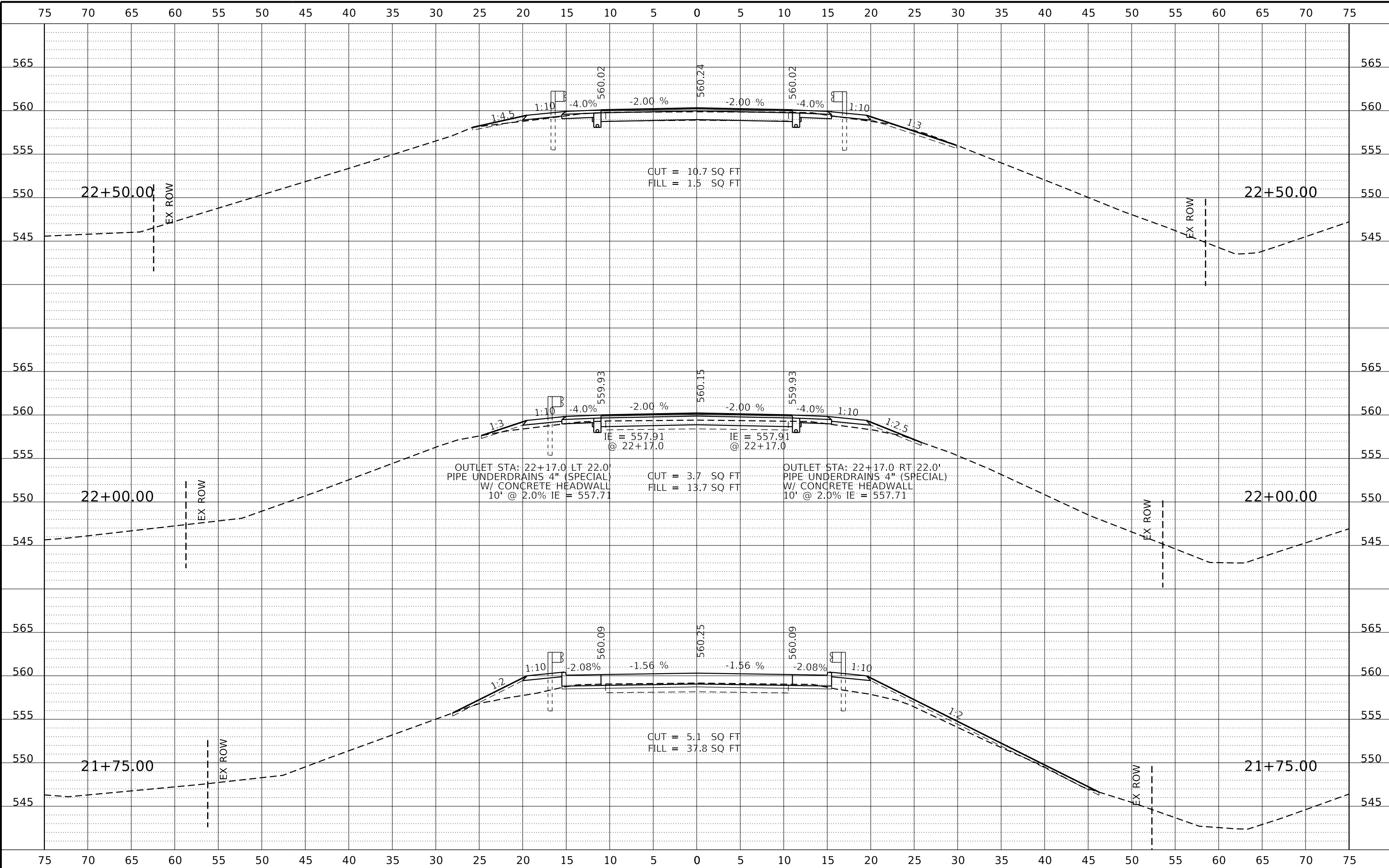
LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
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F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 6 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	57
WHA# 1247D13		CONTRACT NO. 87673		
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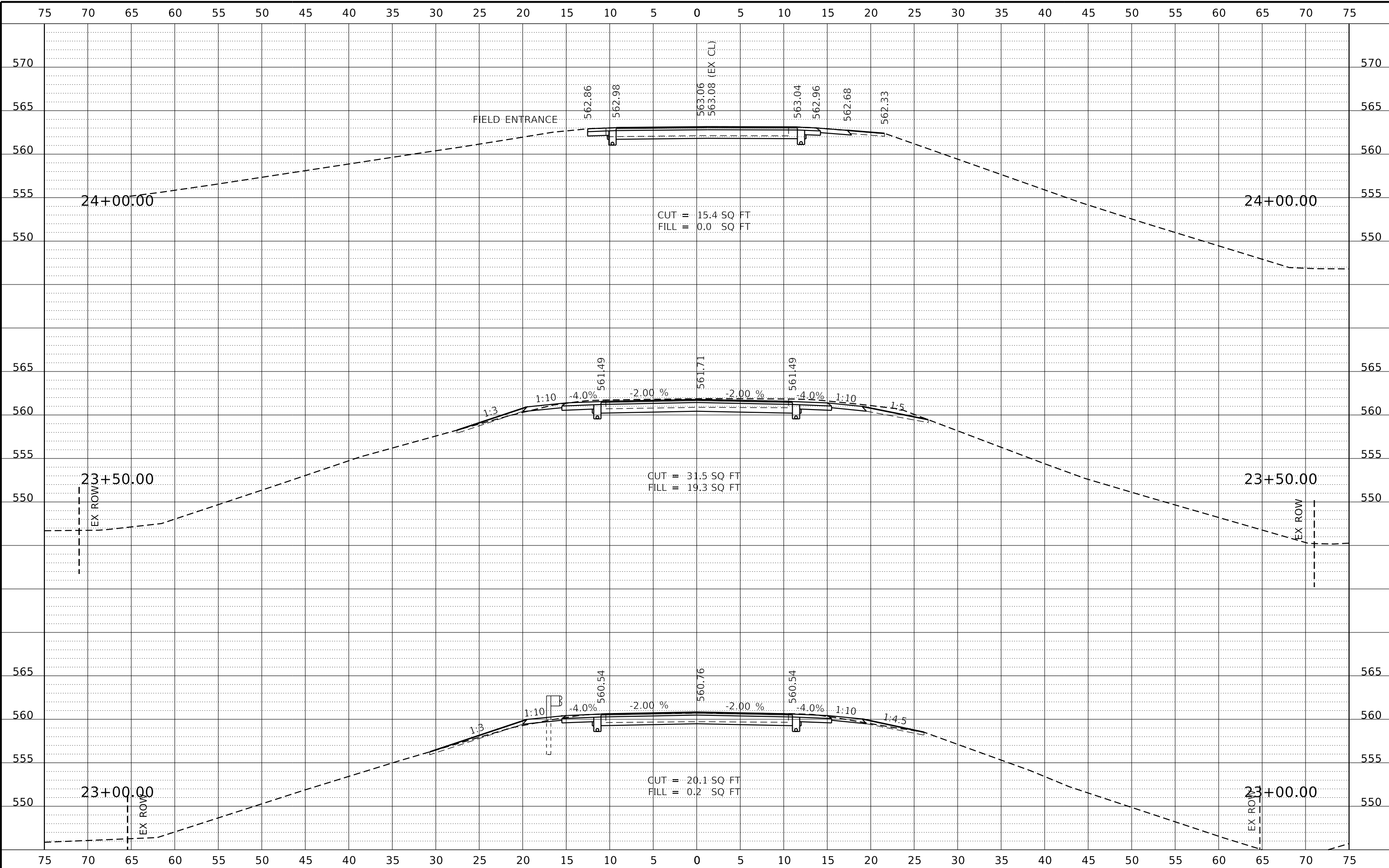
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DRAWN	GBG
REVIEWED	GFS
APPROVED	GFS

LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 7 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	58
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				



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LASALLE COUNTY
F.A.S. 1275 (C.H. 57) OVER VERMILION RIVER
STATION 20+00.00



F.A.S. 1275 (C.H. 57)
CROSS SECTIONS
SHEET 8 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1275	15-00760-00-BR	LASALLE	59	59
WHA# 1247D13		CONTRACT NO. 87673		
ILLINOIS FED. AID PROJECT				