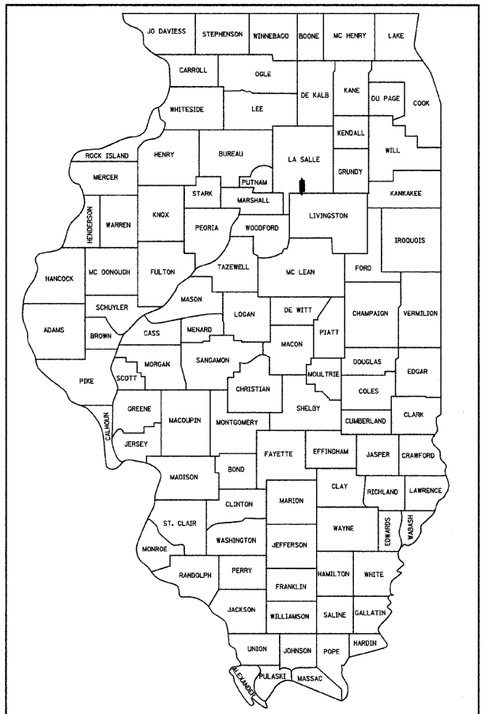
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 87430		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM
LASALLE COUNTY
SECTION 10-00649-00-BR
F.A.U. 6141 (CH 29) OVER
EGG BAG CREEK
PROJECT NO. BRS-0099(043)
JOB NUMBER C-93-164-09

INDEX OF SHEETS

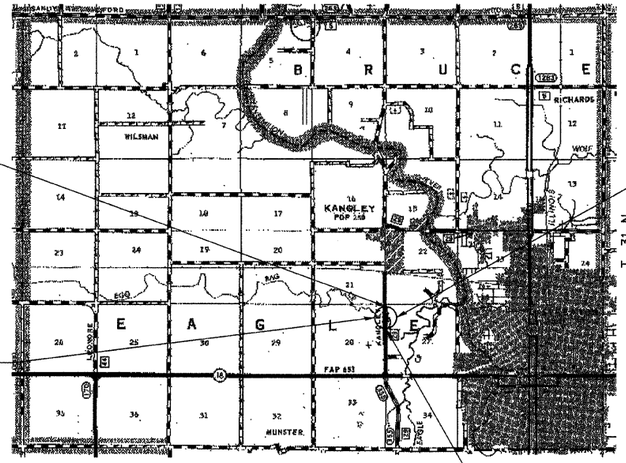
REQUIRED HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
442101-07	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
609006-05	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-05	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



LOCATION OF SECTION INDICATED THUS:- ▬

SCALES
- PLAN, PROFILE HORIZ. — 50′ 0 50′
- PROFILE VERT. — 5′ 0 5′
- CROSS SECTIONS HORIZ., CROSS SECTIONS VERT. — 5′ 0 5′



SECTION 10-00649-00-BR ENDS STATION 45+00.00

PROPOSED STRUCTURE NO. 050-3593
SINGLE SPAN 48" P.P.C. I-DECK BEAM WITH CONCRETE DECK SUPERSTRUCTURE ON CONC. INTEGRAL ABUTMENTS, 87'-0" BK. TO BK. AND 37'-0" O. TO O., NO SKEW

EXISTING STRUCTURE 050-3054
SINGLE SPAN 21" PPC DECK BEAM SUPERSTRUCTURE ON CONCRETE CAP WITH CONCRETE PLANK CLOSED ABUTMENTS ON STEEL PILES, 54'-4" BK. TO BK., AND 36'-0" O. TO O., NO SKEW (TO BE REMOVED)

SECTION 10-00649-00-BR BEGINS STATION 36+50.00

LOCATION MAP
1 MI 0 1 MI
APPROXIMATE SCALE

NET LENGTH OF PROJECT = 850.00 FEET = 0.16 MILES

DESIGN CLASSIFICATION: MAJOR-COLLECTOR (NON-URBAN)
DESIGN ADT = 2650 (2029)
DESIGN SPEED = 60 MPH

PLANS DESIGNED IN ACCORDANCE WITH BUREAU OF LOCAL ROADS AND STREETS MANUAL 3R GUIDELINES FOR TWO LANE RURAL LOCAL ROADS

UTILITY COMPANIES

CommED
JOLIET, ILLINOIS

NICOR GAS
OTTAWA, ILLINOIS

MEDIACOM
ELBURN, ILLINOIS

VERIZON
STREATOR, ILLINOIS

ILLINOIS AMERICAN WATER CO.
STREATOR, ILLINOIS

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

CONTRACT NO. 87430

2656E001

Hutchison Engineering, Inc.
JACKSONVILLE ILLINOIS
SHOREWOOD ILLINOIS
2009 JOB#2656

JOSEPH E. HUTCHISON 56335 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
License Expires 11/30/2009
SIGNATURE

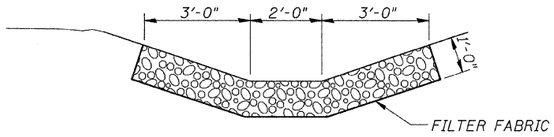
ENGINEER'S SEAL

APPROVED Oct. 8 2009
Lawrence J. Kruger
LASALLE COUNTY ENGINEER

PASSED 10-13 2009
Kenneth L. Fox
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

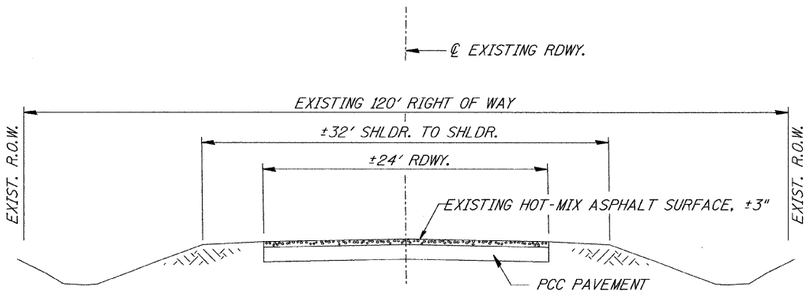
Released For Bid Based on Limited Review 10-13 2009
George E. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

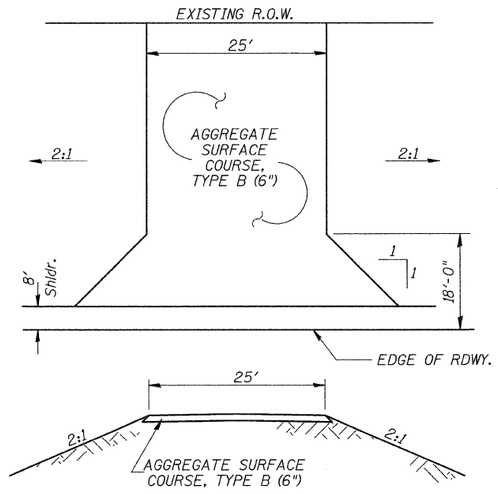


DETAIL OF AGGREGATE DITCH

SEE ARTICLE 283.03 FOR FILTER FABRIC PLACEMENT

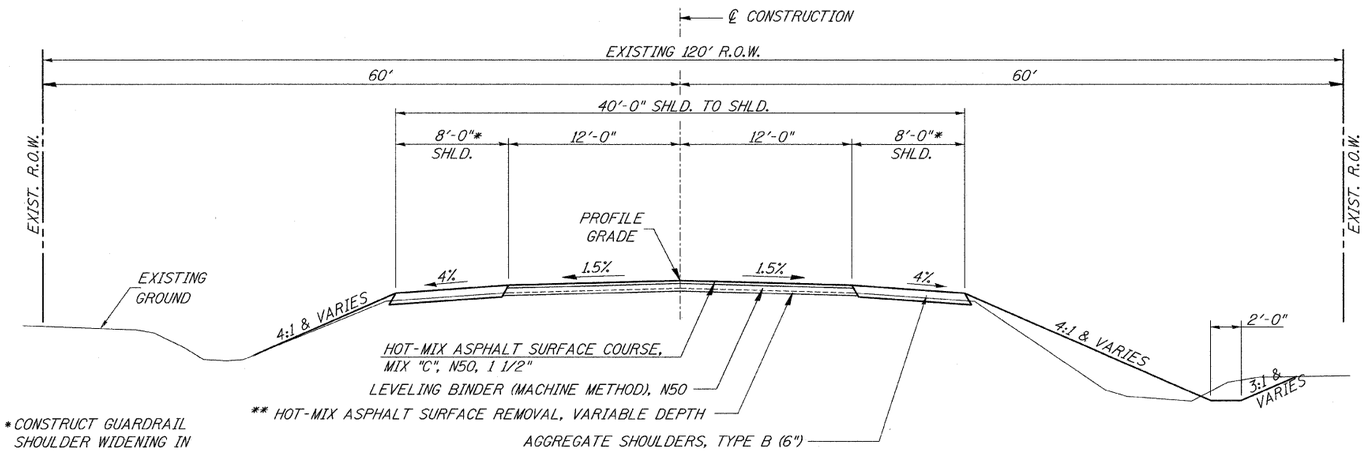


EXISTING TYPICAL SECTION



PROPOSED FIELD ENTRANCE

STA 41+61 RT



*CONSTRUCT GUARDRAIL SHOULDER WIDENING IN ACCORDANCE WITH STD 630301

**REQUIRED TO PROVIDE A MINIMUM 1 1/2" RESURFACING:
STA 36+50.00 TO STA 37+50.00
STA 43+25.00 TO STA 45+00.00

PROPOSED TYPICAL SECTION

STA. 36+50.00 TO STA. 39+21.42
STA. 40+80.42 TO STA. 45+00.00
EXCEPT TRANSITIONS

STA. 39+21.42 TO STA. 39+27.42
STA. 40+74.42 TO STA. 40+80.42
BRIDGE APPROACH PAVEMENT CONNECTOR

STA. 39+27.42 TO STA. 39+57.42
STA. 40+44.42 TO STA. 40+74.42
BRIDGE APPROACH PAVEMENT

BRIDGE OMISSION
STA. 39+57.42 TO STA. 40+44.42

GENERAL NOTES

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	HMA LEVEL BINDER	HMA SURFACE
PG GRADE	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-12.5 OR IL-9.5
FRICTION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	SATISFACTION OF ENGINEER	CORES

WHEN MORE THAN 20% RAP IS USED, A SOFTER ASPHALT BINDER (PG 58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

FILE NAME = V:\Bridge\2656 LaSalle\2656t001.dgn	USER NAME = cthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/30/2009	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

GENERAL NOTES, DETAILS, TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	2
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	QUANTITY
	20200100	EARTH EXCAVATION	CU YD	165
	20300100	CHANNEL EXCAVATION	CU YD	840
①	20400800	FURNISHED EXCAVATION	CU YD	60
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	160
①	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300
	28000305	TEMPORARY DITCH CHECKS	FOOT	99
	28000400	PERIMETER EROSION BARRIER	FOOT	1,540
	28000500	INLET AND PIPE PROTECTION	EACH	1
	28000510	INLET FILTERS	EACH	2
	28100109	STONE RIPRAP, CLASS A5	SQ YD	1,015
	28200200	FILTER FABRIC	SQ YD	1,155
	28300400	AGGREGATE DITCH	TON	71
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	37
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	188
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	192
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	157
	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	247
	42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	50
	44000100	PAVEMENT REMOVAL	SQ YD	283
①	44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	739
	44004000	PAVED DITCH REMOVAL	FOOT	148
	44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	13
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	403
①	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
①	50105220	PIPE CULVERT REMOVAL	FOOT	38
	50200100	STRUCTURE EXCAVATION	CU YD	250
	50300225	CONCRETE STRUCTURES	CU YD	35.6
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	119.2
	50300260	BRIDGE DECK GROOVING	SQ YD	601
	50300280	CONCRETE ENCASEMENT	CU YD	15.4
	50300300	PROTECTIVE COAT	SQ YD	664
	50401005	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 48 IN.	FOOT	513
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	27,880
	50800515	BAR SPLICERS	EACH	74
*	50901050	STEEL RAILING, TYPE SM	FOOT	174
	51201610	FURNISHING STEEL PILES HP12X63	FOOT	258
	51500100	NAME PLATES	EACH	1
	54207801	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM, EQUIVALENT ROUND-SIZE 36"	FOOT	40
	54215547	METAL END SECTIONS 12"	EACH	2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	82
①	60100945	PIPE DRAINS 12"	FOOT	50
	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	154
	60900315	TYPE D INLET BOX, STANDARD 609006	EACH	2
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
	63200310	GUARDRAIL REMOVAL	FOOT	416
	67100100	MOBILIZATION	L SUM	1
①	70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,913
*	78200405	GUARDRAIL MARKERS	EACH	8
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
①	Z0065000	SETTING PILES IN ROCK	EACH	12

① SEE SPECIAL PROVISIONS

CONSTRUCTION CODE TYPE: X081- 2A

* SPECIALTY ITEMS

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)
	CU YD	CU YD	CU YD	CU YD	CU YD
RDWY 36+50.00 - 39+57.42	33			92	(67)
RDWY 40+44.42 - 45+00.00	130			92	6
CHANNEL		840			
STRUCTURE			250		
TOTAL	163	840	250	184	(61)
USE	165	840	250	-	(60)

(@ 25% SHRINKAGE)

APPROACH PAVEMENT DRAINS

STATION	SIDE	METAL END SECTIONS 12" (EACH)	PIPE DRAINS 12" (FOOT)	TYPE D INLET BOX, STANDARD 609006 (EACH)
39+43.00	RIGHT	1	23	1
39+43.00	LEFT	1	27	1
	TOTAL	2	50	2

PAINT PAVEMENT MARKING - LINE 4"

STATION TO STATION	SIDE	DESCRIPTION	FOOT
36+50 - 45+00	LEFT	WHITE EDGE LINE	850
36+50 - 45+00	℄	YELLOW SKIP-DASH	213
36+50 - 45+00	RIGHT	WHITE EDGE LINE	850
		TOTAL	1,913

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SIDE	STATION TO STATION	EACH
LEFT	38+63.67 - 39+13.67	1
RIGHT	38+63.67 - 39+13.67	1
LEFT	40+88.17 - 41+38.17	1
RIGHT	40+88.17 - 41+38.17	1
	TOTAL	4

TRAFFIC BARRIER TERMINAL, TYPE 6A

SIDE	STATION TO STATION	EACH
LEFT	39+13.67 - 39+57.42	1
RIGHT	39+13.67 - 39+57.42	1
LEFT	40+44.42 - 40+88.17	1
RIGHT	40+44.42 - 40+88.17	1
	TOTAL	4

PIPE CULVERTS

STATION	SIDE	CS/A 36" ERS (FOOT)
41+61	RT	40
	TOTAL	40

GUARDRAIL MARKERS

STATION TO STATION	SIDE	GUARDRAIL MARKERS (EACH)
38+63.67 - 41+38.17	LEFT	4
38+63.67 - 41+38.17	RIGHT	4
	TOTAL	8

ALL GUARDRAIL MARKERS SHALL BE BI-DIRECTIONAL

FILE NAME = V:\Bridge\2656 LaSalle\2656q001.dgn	USER NAME = othomas	DESIGNED -	REVISED -	LASALLE COUNTY COUNTY HIGHWAY 29 OVER EGG BAG CREEK	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
		DRAWN -	REVISED -		
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00
	PLOT DATE = 10/1/2009	DATE -	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	3
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

PAVEMENT SCHEDULE

STATION TO STATION	WIDTH	LENGTH	PRIME COAT GALLON 0.10 GAL/SQ YD	LEVELING BINDER (MACHINE METHOD) TON 112#/SQ YD/IN	HOT-MIX ASPHALT SURF CSE TON 112#/SQ YD/IN	HOT-MIX ASPHALT SURF REMOVAL, VARIABLE DEPTH SQ YD	BRIDGE APPROACH PAVEMENT SQ YD	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SQ YD
36+50.00 - 37+50.00	24.17' AVG.	100.00'	27					
37+50.00 - 39+27.42	24.00'	177.42'	47					
40+74.42 - 43+25.00	24.00'	250.58'	67					
43+25.00 - 45+00.00	24.17' AVG.	175.00'	47					
37+25.00 - 39+21.42	24.00'	196.42'		106				
40+80.42 - 43+50.00	24.00'	269.58'		86				
36+50.00 - 37+50.00	24.27' AVG.	100.00'			23			
37+50.00 - 39+21.42	24.13'	171.42'			39			
40+80.42 - 43+25.00	24.13'	244.58'			55			
43+25.00 - 45+00.00	24.27' AVG.	175.00'			40			
36+50.00 - 37+50.00	24.17' AVG.	100.00'				269		
43+25.00 - 45+00.00	24.17' AVG.	175.00'				470		
39+27.42 - 39+57.42	37.00'	30.00'					123	
40+44.42 - 40+74.42	37.00'	30.00'					124	
39+21.42 - 39+27.42	37.00'	6.00'						25
40+74.42 - 40+80.42	37.00'	6.00'						25
		TOTAL	188	192	157	739	247	50

AGGREGATE SHOULDERS, TYPE B 6"

STATION TO STATION	SIDE	WIDTH	LENGTH	TON
36+50.00 - 37+00.00	LEFT	5.40' AVG.	50.00'	9
36+50.00 - 37+00.00	RIGHT	5.60' AVG.	50.00'	10
37+00.00 - 38+40.65	LEFT	8.00'	140.65'	39
37+00.00 - 38+40.65	RIGHT	8.00'	140.65'	39
38+40.65 - 38+53.67	LEFT	9.09' AVG.	13.02'	4
38+40.65 - 38+53.67	RIGHT	9.09' AVG.	13.02'	4
38+53.67 - 38+88.67	LEFT	10.17'	35.00'	12
38+53.67 - 38+88.67	RIGHT	10.17'	35.00'	12
38+88.67 - 38+92.69	LEFT	9.84' AVG.	4.02'	1
38+88.67 - 38+92.69	RIGHT	9.84' AVG.	4.02'	1
38+92.69 - 39+21.42	LEFT	9.50'	28.73'	10
38+92.69 - 39+21.42	RIGHT	9.50'	28.73'	10
39+21.42 - 39+49.92	LEFT	3.00'	28.50'	3
39+21.42 - 39+49.92	RIGHT	3.00'	28.50'	3
39+49.92 - 39+57.42	LEFT	2.75' AVG.	7.50'	1
39+49.92 - 39+57.42	RIGHT	2.75' AVG.	7.50'	1
40+44.42 - 40+51.92	LEFT	2.75' AVG.	7.50'	1
40+44.42 - 40+51.92	RIGHT	2.75' AVG.	7.50'	1
40+51.92 - 40+80.42	LEFT	3.00'	28.50'	3
40+51.92 - 40+80.42	RIGHT	3.00'	28.50'	3
40+80.42 - 40+09.15	LEFT	9.50'	28.73'	10
40+80.42 - 40+09.15	RIGHT	9.50'	28.73'	10
40+09.15 - 41+13.17	LEFT	9.84' AVG.	4.02'	1
40+09.15 - 41+13.17	RIGHT	9.84' AVG.	4.02'	1
41+13.17 - 41+48.17	LEFT	10.17'	35.00'	12
41+13.17 - 41+48.17	RIGHT	10.17'	35.00'	12
41+48.17 - 41+61.19	LEFT	9.09' AVG.	13.02'	4
41+48.17 - 41+61.19	RIGHT	9.09' AVG.	13.02'	4
41+61.19 - 44+50.00	LEFT	8.00'	288.81'	81
41+61.19 - 44+50.00	RIGHT	8.00'	288.81'	81
44+50.00 - 45+00.00	LEFT	5.80' AVG.	50.00'	10
44+50.00 - 45+00.00	RIGHT	5.98' AVG.	50.00'	10
			TOTAL	403

AGGREGATE DITCH**

STATION TO STATION	SIDE	WIDTH	TON	FILTER FABRIC (SQ YD)
39+33.00 - 39+53.00	LT	8'	9	18
39+43.00	RT	6'	8	16
40+44.00 - 41+41.00	RT	8'	45	87
41+81.00 - 42+00.00	RT	8'	9	17
		TOTAL	71	138

** AGGREGATE DITCH SHALL CONFORM TO MATERIAL TYPE A-4 OF THE STANDARD SPECIFICATIONS.

TEMPORARY DITCH CHECKS

STATION	SIDE	FOOT
40+25	RIGHT	11
40+38	RIGHT	11
40+51	RIGHT	11
40+64	RIGHT	11
40+77	RIGHT	11
40+90	RIGHT	11
41+03	RIGHT	11
41+16	RIGHT	11
41+29	RIGHT	11
	TOTAL	99

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
36+50 - 39+57	LEFT	345
36+50 - 39+57	RIGHT	355
40+44 - 45+00	LEFT	490
41+41 - 41+81	RIGHT	45
42+00 - 45+00	RIGHT	305
	TOTAL	1,540

PAVEMENT REMOVAL

STATION TO STATION	LENGTH	WIDTH	SQ YD
39+21.42 - 39+73.51	52.09'	24'	139
40+26.29 - 40+80.42	54.13'	24'	144
		TOTAL	283

INLET FILTERS

STATION	SIDE	EACH
39+43	RIGHT	1
39+43	LEFT	1
	TOTAL	2

PAVED DITCH REMOVAL

STATION TO STATION	SIDE	FOOT
39+54 - 39+82	LEFT	28
40+24 - 41+44	RIGHT	120
	TOTAL	148

AGGREGATE SURFACE COURSE, TYPE B

STATION	TYPE	TON
41+61	FE	37
	TOTAL	37

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	FOOT
38+67 - 39+71	LEFT	104
38+67 - 39+71	RIGHT	104
40+29 - 41+33	LEFT	104
40+29 - 41+33	RIGHT	104
	TOTAL	416

INLET & PIPE PROTECTION

STATION	SIDE	EACH
41+81	RIGHT	1
	TOTAL	1

PIPE CULVERT REMOVAL

STATION	SIDE	FOOT
41+61	RT	38
	TOTAL	38

CLASS B PATCHES, TYPE II, 10 INCH

STATION TO STATION	SIDE	SQ YD
39+12 - 39+21	LEFT	13
	TOTAL	13

FILE NAME = V:\Bridge\2656 LaSalle\2656q002.dgn

USER NAME = jhutchison | PLOT SCALE = 99.9999 ' / IN. | PLOT DATE = 10/29/2009

DESIGNED - | DRAWN - | CHECKED - | DATE -

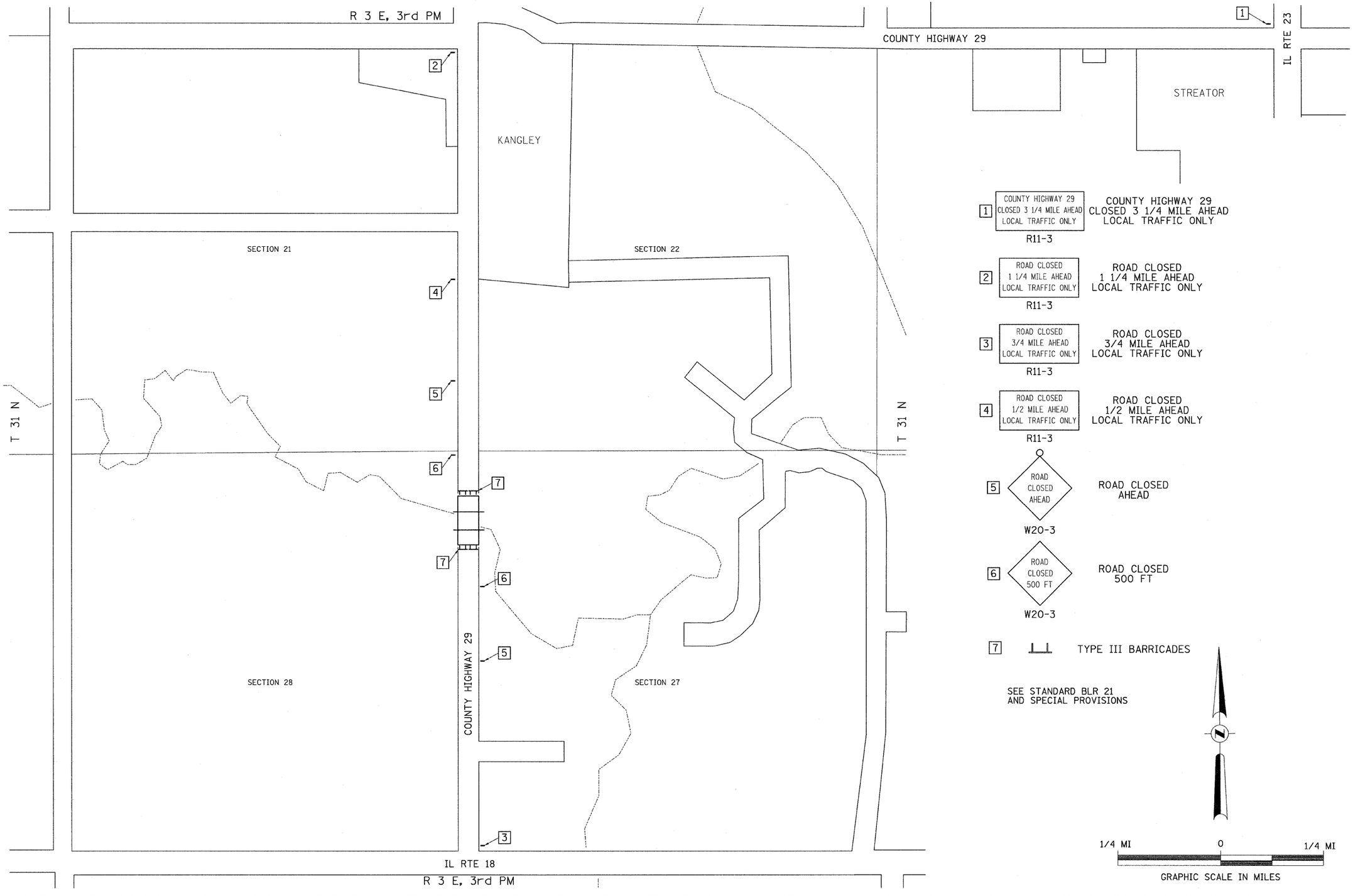
REVISED - | REVISED - | REVISED - | REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

SCHEDULES OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00

F.A.I.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	4
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		



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		DRAWN -	REVISED -
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	PLOT DATE = 9/30/2009	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

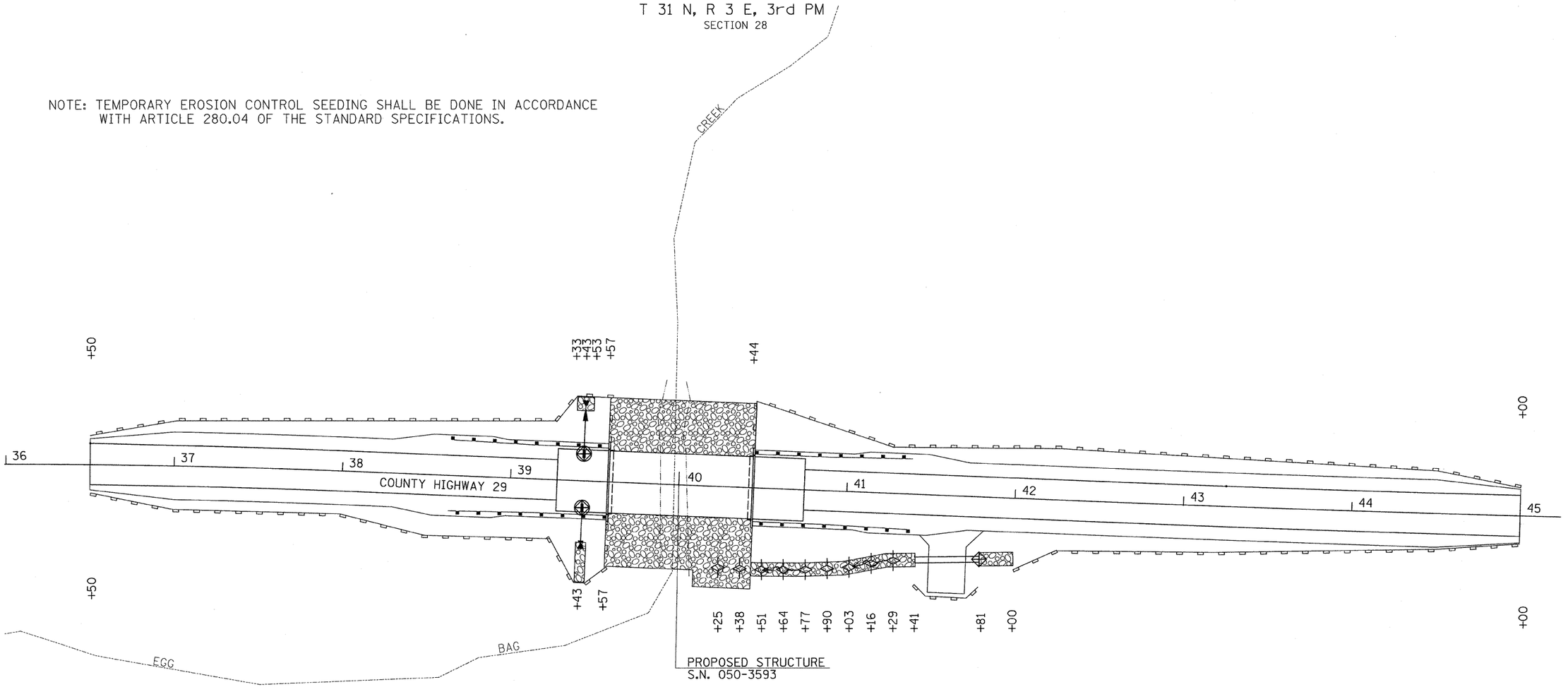
TRAFFIC CONTROL PLAN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	5
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

T 31 N, R 3 E, 3rd PM
SECTION 28

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- INLET FILTERS
- SPECIAL DITCH - FLOW LINE AND DIRECTION
- PROPOSED RIPRAP / AGGREGATE DITCH PLACEMENT

T 31 N, R 3 E, 3rd PM
SECTION 27

50′ 0′ 50′
GRAPHIC SCALE IN FEET

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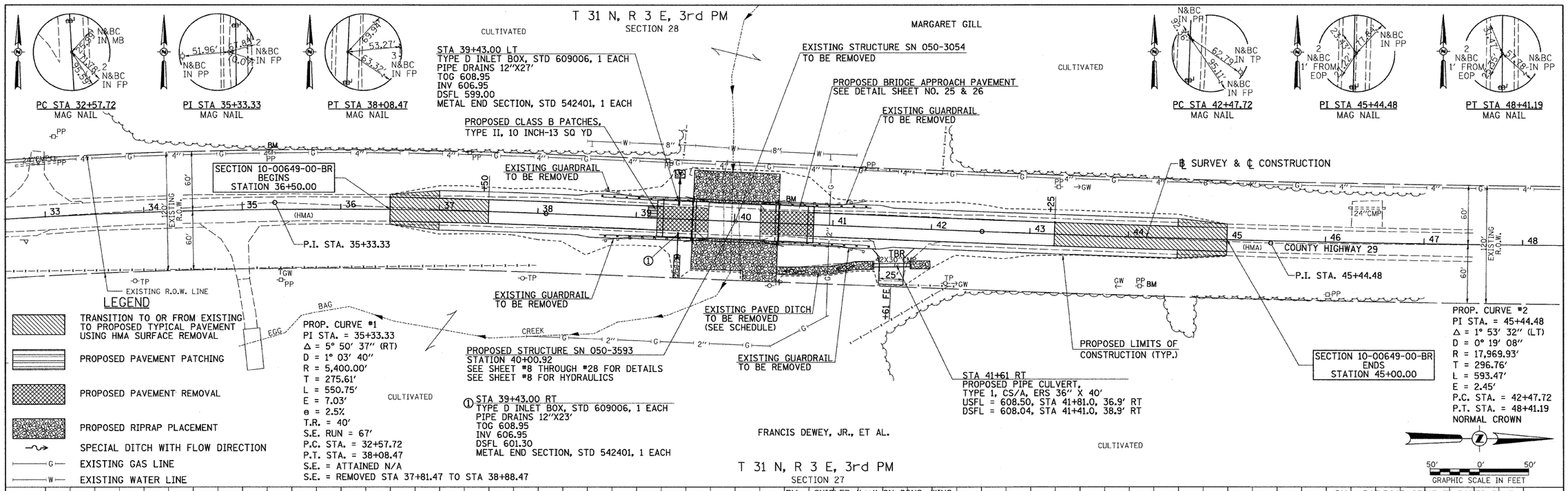
LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

EROSION CONTROL PLAN

SCALE: 1" = 30'-0" | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	6
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		



* CHANNEL EXCAVATION

THE CHANNEL SHALL BE EXCAVATED WITH 2:1 SIDE SLOPES AS SHOWN ON SHEET 8. TRANSITION FROM THE PROPOSED CHANNEL TO THE EXISTING UPSTREAM & DOWNSTREAM CHANNEL BEGINNING 5' BEYOND THE BRIDGE DECK ON EACH SIDE AND ENDING 50' FROM THE CENTERLINE OF CONSTRUCTION. SUITABLE EXCAVATION MATERIAL MAY BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.
CHANNEL EXCAVATION = 840 CU YD

PLAN: DATE | BY | SURVEYED | PLOTTED | GRADES CHECKED | R.P. APPROVED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | GRADES CHECKED | R.P. APPROVED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO.

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		DRAWN -	REVISED -
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	PLOT DATE = 9/30/2009	DATE - 03/03/09	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

PLAN & PROFILE

SCALE: 1"=50'-0" | SHEET NO. 1 OF 1 SHEETS | STA. 36+50.00 TO STA. 45+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	7
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

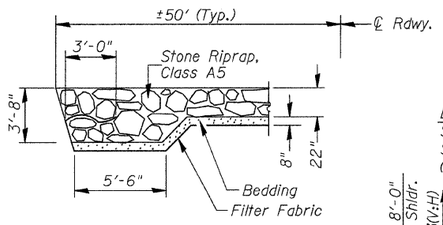
BM: Railroad Spike in Power Pole
Sta. 35+30, 58' Lt.
Elev. 603.36

BM: Railroad Spike in Power Pole
Sta. 44+13, 50' Rt.
Elev. 617.90

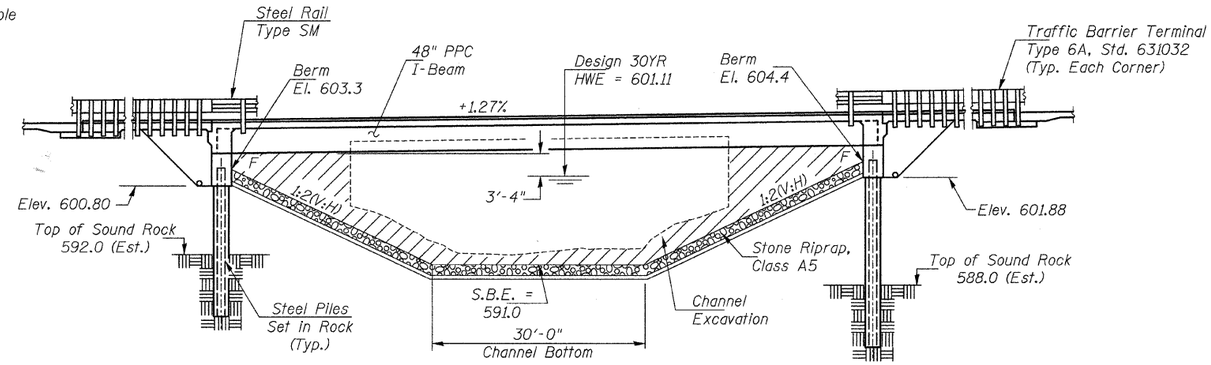
Existing Structure:
Single span 21" PPC deck beam superstructure with steel rail with curb supported on concrete cap with concrete plank closed abutments on steel piles. The structure is 54'-4" back to back of abutments, 36'-0" out to out of deck, with a ±35° driving surface, and is not skewed.
Str. No. 050-3054

Salvage: None

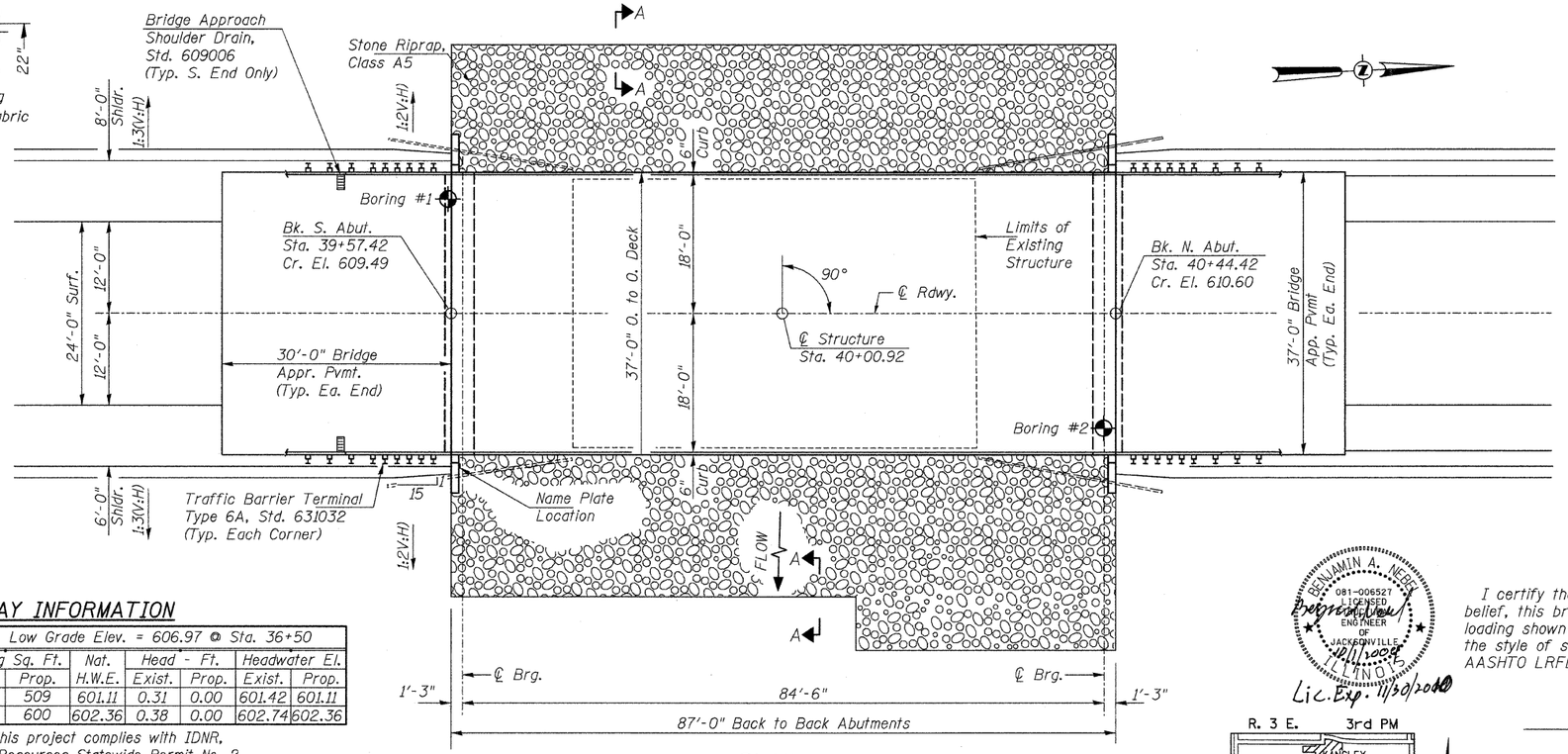
Road to be closed to traffic during construction.



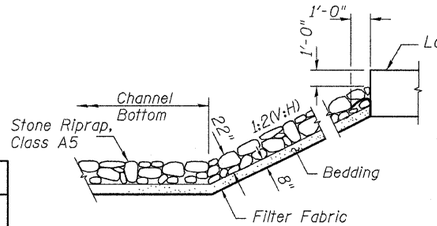
SECTION A-A



ELEVATION



PLAN



STONE RIPRAP DETAIL

WATERWAY INFORMATION

Drainage Area = 15.71 Sq. Mi. — Low Grade Elev. = 606.97 @ Sta. 36+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	2,202	325	509	601.11	0.31	0.00	601.42	601.11
Base	100	2,890	386	600	602.36	0.38	0.00	602.74	602.36

Construction of this project complies with IDNR, Office of Water Resources Statewide Permit No. 2

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.07g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.13g
Soil Site Class = C

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications
4th Edition with Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 7,000 p.s.i.
f'ci = 6,000 p.s.i.
f's = 270,000 p.s.i. (½" ϕ low relaxation strands)
f'si = 201,960 p.s.i. (½" ϕ low relaxation strands)

DESIGNED	B.A.N
CHECKED	J.O.H.
DRAWN	T.A.C.
CHECKED	B.A.N.

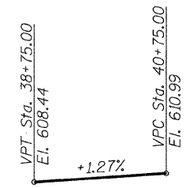
2656B001

NOTE:
For Bill of Material and General Notes, See Sheet 2 of 21.

EGG BAG CREEK
BUILT 20__ BY
LASALLE COUNTY
SEC. 10-00649-00-BR
C.H. 29 STATION 40+00.92
F.A. PROJ. BRS-0099(043)
STR. NO. 050-3593 LOADING HL-93

NAME PLATE

Locate Name Plate on Wingwall
S.E. Corner of Bridge (See Std. 515001)



PROFILE GRADE

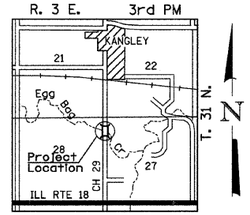
DESIGN SCOUR TABLE

Location	S. Abut	N. Abut
Design Scour Elevation	600.8	601.9

BENJAMIN A. WEBER
081-006527
LICENSED
STRUCTURAL
ENGINEER
OF
ILLINOIS
12/1/2009
Professional
Lic. Exp. 11/30/2010

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 for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

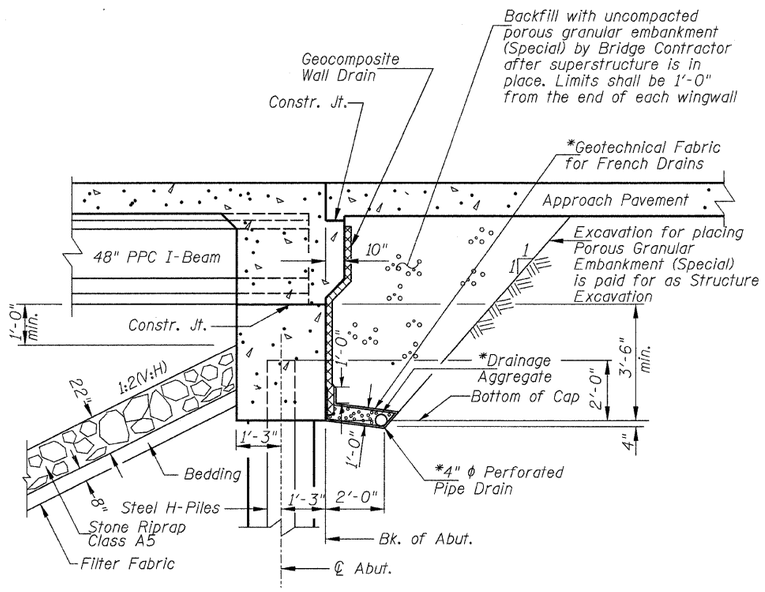
Benjamin A. Weber 12/1/2009
Illinois Structural No. 6527
Expires 11/30/2010



LOCATION SKETCH

GENERAL PLAN & ELEVATION

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	8
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		



*Included in the cost of Pipe Underdrains for Structures. All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into *concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

SECTION THRU INTEGRAL ABUTMENTS

GENERAL NOTES

For Soil Boring Logs, See Sheet #'s 20 & 21 of 21.

Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. See Special Provisions.

Reinforcement Bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

All embedded and seperate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

TOTAL BILL OF MATERIAL

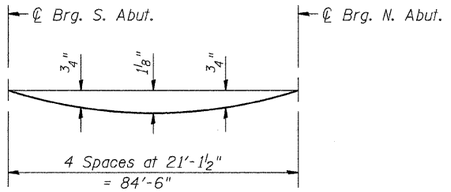
	ITEM	UNIT	SUPER	SUB	TOTAL
(1)	Removal of Existing Structures	EACH	——	——	1
	Channel Excavation	CU YD	——	840	840
	Structure Excavation	CU YD	——	250	250
	Concrete Structures	CU YD	——	35.6	35.6
	Concrete Superstructure	CU YD	119.2	——	119.2
	Bridge Deck Grooving	SQ YD	555	——	555
	Protective Coat	SQ YD	615	——	615
	Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48"	FOOT	513	——	513
(1)	Reinforcement Bars, Epoxy Coated	POUND	22,420	5,460	27,880
	Steel Railing, Type SM	FOOT	174	——	174
	Name Plates	EACH	——	1	1
	Furnishing Steel Piles HP12x63	FOOT	——	258	258
(1)	Setting Piles in Rock	EACH	——	12	12
(1)	Porous Granular Embankment (Special)	CU YD	——	160	160
(1)	Pipe Underdrains for Structures, 4"	FOOT	——	154	154
	Geocomposite Wall Drain	SQ YD	——	82	82
	Concrete Encasement	CU YD	——	15.4	15.4
	Stone Riprap, Class A5	SQ YD	——	1,015	1,015
	Filter Fabric	SQ YD	——	1,015	1,015
	Bar Splicers	EACH	74	——	74
	Bridge Approach Pavement	SQ YD	——	——	247

(1) See Special Provisions

GENERAL NOTES, DETAILS, AND BILL OF MATERIALS

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	9
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

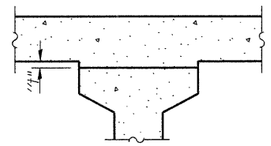
2656B002



DEAD LOAD DEFLECTION DIAGRAM

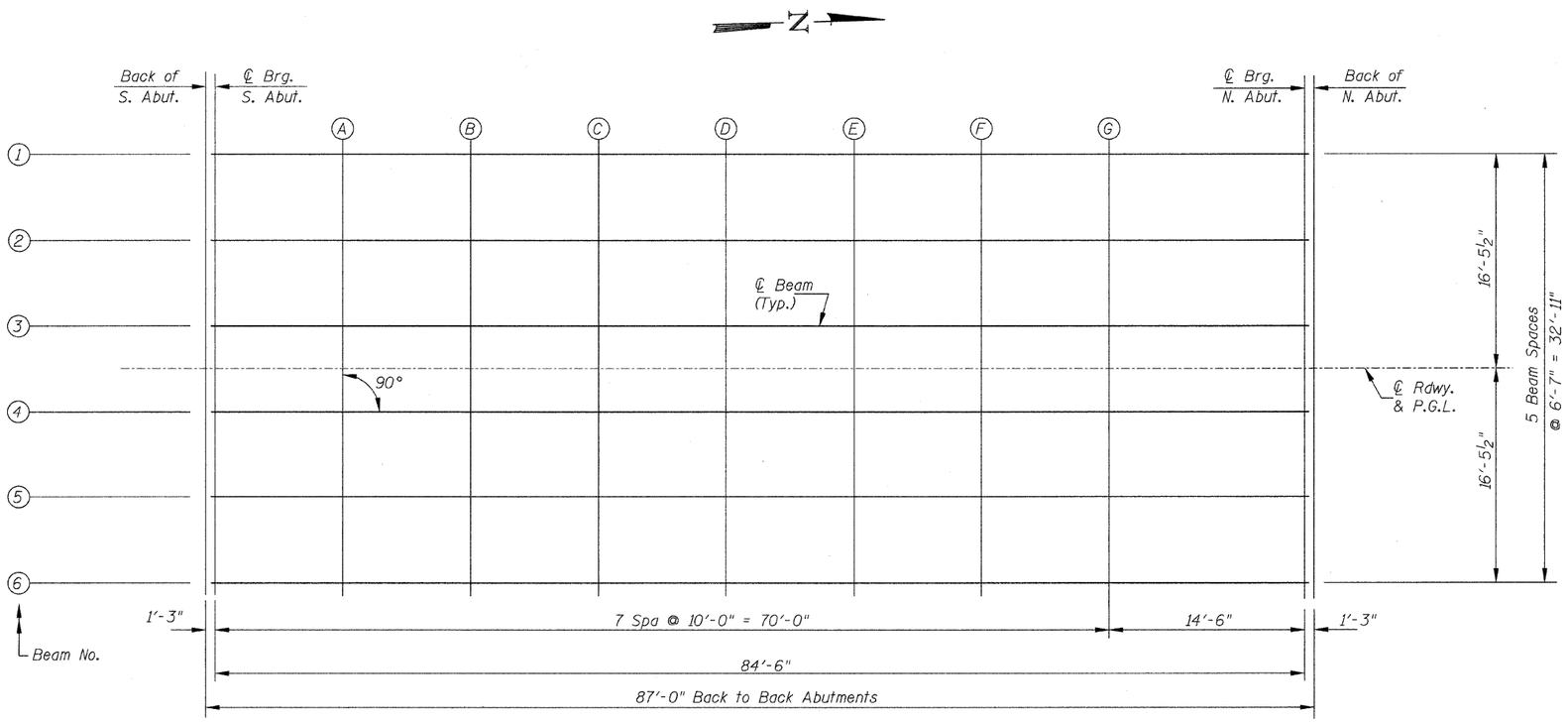
(Includes weight of concrete, excluding beams).

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 precast prestressed beams have 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 Deflections" shown on Sh.#4 of 21, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN (DECK ELEVATIONS)

TOP OF SLAB ELEVATIONS

SHEET NO. 3	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	10
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b003

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	-16.46	609.21	609.21
CL Brg S. Abut.	3958.67	-16.46	609.23	609.23
A	3968.67	-16.46	609.35	609.39
B	3978.67	-16.46	609.48	609.55
C	3988.67	-16.46	609.61	609.69
D	3998.67	-16.46	609.74	609.83
E	4008.67	-16.46	609.86	609.96
F	4018.67	-16.46	609.99	610.07
G	4028.67	-16.46	610.12	610.17
CL Brg N. Abut.	4043.17	-16.46	610.30	610.30
Bk. N. Abutment	4044.42	-16.46	610.32	610.32

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	0.00	609.49	609.49
CL Brg S. Abut.	3958.67	0.00	609.51	609.51
A	3968.67	0.00	609.63	609.67
B	3978.67	0.00	609.76	609.83
C	3988.67	0.00	609.89	609.98
D	3998.67	0.00	610.02	610.11
E	4008.67	0.00	610.14	610.24
F	4018.67	0.00	610.27	610.35
G	4028.67	0.00	610.40	610.45
CL Brg N. Abut.	4043.17	0.00	610.58	610.58
Bk. N. Abutment	4044.42	0.00	610.60	610.60

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	16.46	609.21	609.21
CL Brg S. Abut.	3958.67	16.46	609.23	609.23
A	3968.67	16.46	609.35	609.39
B	3978.67	16.46	609.48	609.55
C	3988.67	16.46	609.61	609.69
D	3998.67	16.46	609.74	609.83
E	4008.67	16.46	609.86	609.96
F	4018.67	16.46	609.99	610.07
G	4028.67	16.46	610.12	610.17
CL Brg N. Abut.	4043.17	16.46	610.30	610.30
Bk. N. Abutment	4044.42	16.46	610.32	610.32

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	-9.88	609.34	609.34
CL Brg S. Abut.	3958.67	-9.88	609.35	609.35
A	3968.67	-9.88	609.48	609.52
B	3978.67	-9.88	609.61	609.67
C	3988.67	-9.88	609.73	609.82
D	3998.67	-9.88	609.86	609.96
E	4008.67	-9.88	609.99	610.08
F	4018.67	-9.88	610.12	610.19
G	4028.67	-9.88	610.24	610.29
CL Brg N. Abut.	4043.17	-9.88	610.43	610.43
Bk. N. Abutment	4044.42	-9.88	610.45	610.45

BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	3.29	609.44	609.44
CL Brg S. Abut.	3958.67	3.29	609.46	609.46
A	3968.67	3.29	609.58	609.62
B	3978.67	3.29	609.71	609.78
C	3988.67	3.29	609.84	609.92
D	3998.67	3.29	609.97	610.06
E	4008.67	3.29	610.09	610.18
F	4018.67	3.29	610.22	610.30
G	4028.67	3.29	610.35	610.40
CL Brg N. Abut.	4043.17	3.29	610.53	610.53
Bk. N. Abutment	4044.42	3.29	610.55	610.55

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	-3.29	609.44	609.44
CL Brg S. Abut.	3958.67	-3.29	609.46	609.46
A	3968.67	-3.29	609.58	609.62
B	3978.67	-3.29	609.71	609.78
C	3988.67	-3.29	609.84	609.92
D	3998.67	-3.29	609.97	610.06
E	4008.67	-3.29	610.09	610.18
F	4018.67	-3.29	610.22	610.30
G	4028.67	-3.29	610.35	610.40
CL Brg N. Abut.	4043.17	-3.29	610.53	610.53
Bk. N. Abutment	4044.42	-3.29	610.55	610.55

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	3957.42	9.88	609.34	609.34
CL Brg S. Abut.	3958.67	9.88	609.35	609.35
A	3968.67	9.88	609.48	609.52
B	3978.67	9.88	609.61	609.67
C	3988.67	9.88	609.73	609.82
D	3998.67	9.88	609.86	609.96
E	4008.67	9.88	609.99	610.08
F	4018.67	9.88	610.12	610.19
G	4028.67	9.88	610.24	610.29
CL Brg N. Abut.	4043.17	9.88	610.43	610.43
Bk. N. Abutment	4044.42	9.88	610.45	610.45

TOP OF SLAB ELEVATIONS

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	11
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b004

WEST CURB LINE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
End S. App. Pvmt.	3927.42	-18.00	608.69
A	3937.42	-18.00	608.85
B	3947.42	-18.00	609.02
Bk. S. Abutment	3957.42	-18.00	609.18

WEST EDGE OF ROADWAY PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. App. Pvmt.	3927.42	-12.00	608.93
A	3937.42	-12.00	609.05
B	3947.42	-12.00	609.18
Bk. S. Abutment	3957.42	-12.00	609.30

℄ ROADWAY & PROFILE GRADE

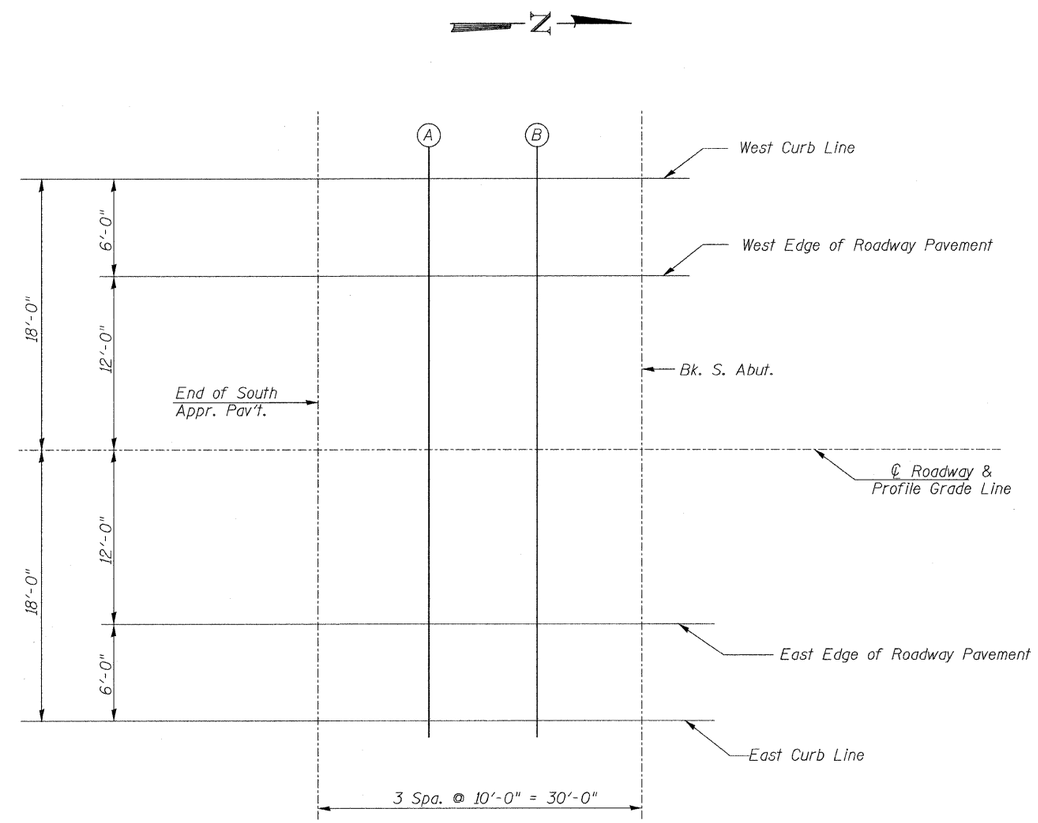
Location	Station	Offset	Theoretical Grade Elevations
End S. App. Pvmt.	3927.42	0.00	609.11
A	3937.42	0.00	609.24
B	3947.42	0.00	609.36
Bk. S. Abutment	3957.42	0.00	609.49

EAST EDGE OF ROADWAY PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. App. Pvmt.	3927.42	12.00	608.93
A	3937.42	12.00	609.05
B	3947.42	12.00	609.18
Bk. S. Abutment	3957.42	12.00	609.30

EAST CURB LINE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. App. Pvmt.	3927.42	18.00	608.69
A	3937.42	18.00	608.85
B	3947.42	18.00	609.02
Bk. S. Abutment	3957.42	18.00	609.18



PLAN SOUTH APPROACH PAVEMENT

TOP OF SOUTH APPROACH SLAB ELEVATIONS

SHEET NO. 5	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	12
	S.N. 050-3593		CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b005

WEST CURB LINE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abutment	4044.42	-18.00	610.29
A	4054.42	-18.00	610.38
B	4064.42	-18.00	610.47
End N. App. Pvmt.	4074.42	-18.00	610.56

WEST EDGE OF ROADWAY PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abutment	4044.42	-12.00	610.41
A	4054.42	-12.00	610.54
B	4064.42	-12.00	610.67
End N. App. Pvmt.	4074.42	-12.00	610.80

℄ ROADWAY & PROFILE GRADE

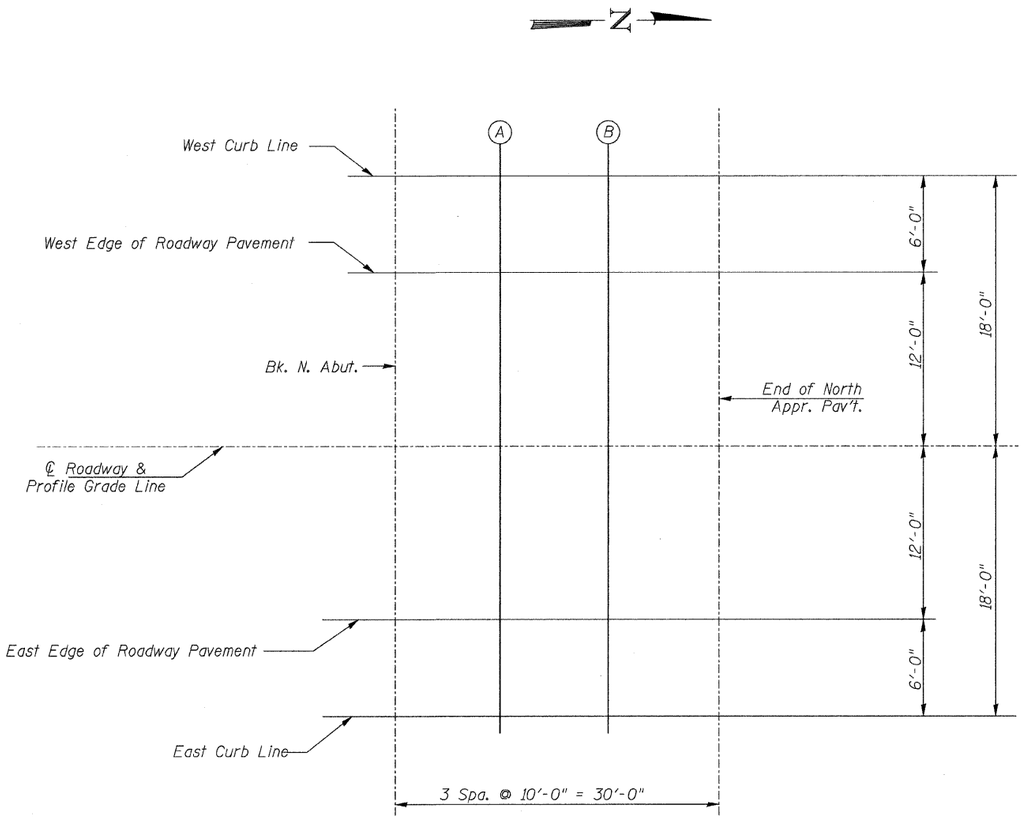
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abutment	4044.42	0.00	610.60
A	4054.42	0.00	610.73
B	4064.42	0.00	610.86
End N. App. Pvmt.	4074.42	0.00	610.98

EAST EDGE OF ROADWAY PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abutment	4044.42	12.00	610.41
A	4054.42	12.00	610.54
B	4064.42	12.00	610.67
End N. App. Pvmt.	4074.42	12.00	610.80

EAST CURB LINE OF APPROACH PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abutment	4044.42	18.00	610.29
A	4054.42	18.00	610.38
B	4064.42	18.00	610.47
End N. App. Pvmt.	4074.42	18.00	610.56

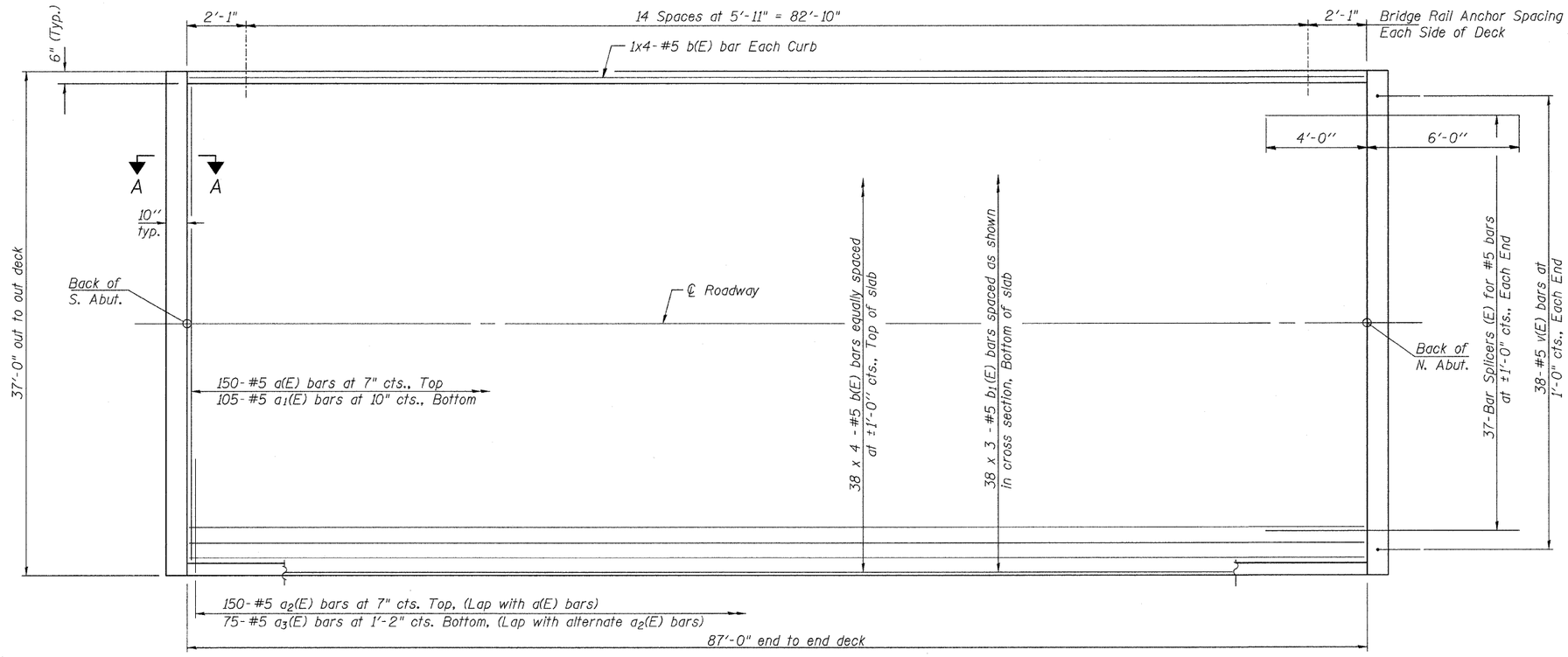


PLAN NORTH APPROACH PAVEMENT

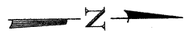
TOP OF NORTH APPROACH SLAB ELEVATIONS

SHEET NO. 6	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	13
	S.N. 050-3593		CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b006



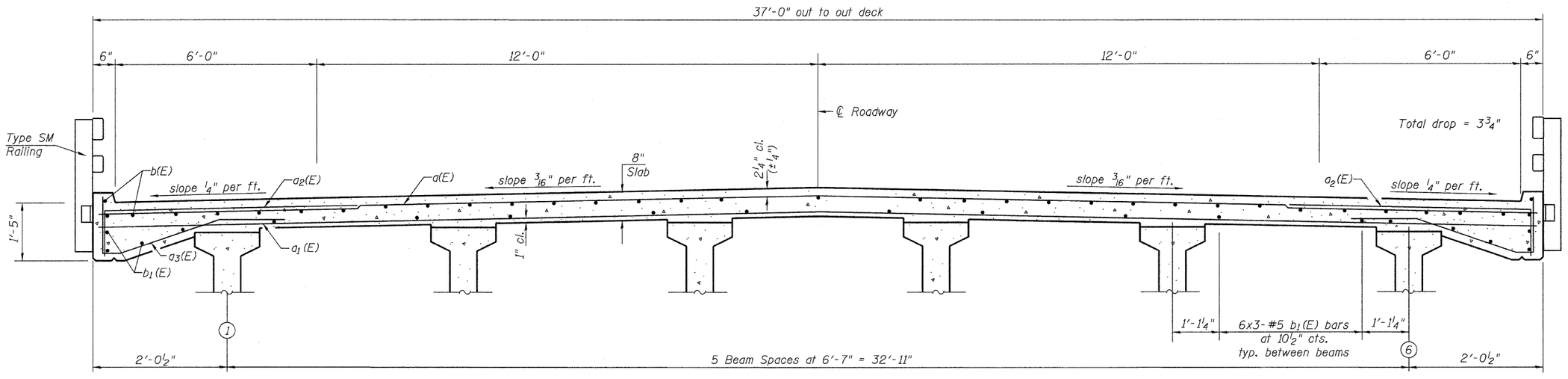
PLAN



MIN. BAR LAP

#5 = 1'-8"

Notes:
See Sheet 8 of 21 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 9 of 21 for Section A-A & Diaphragm Details.

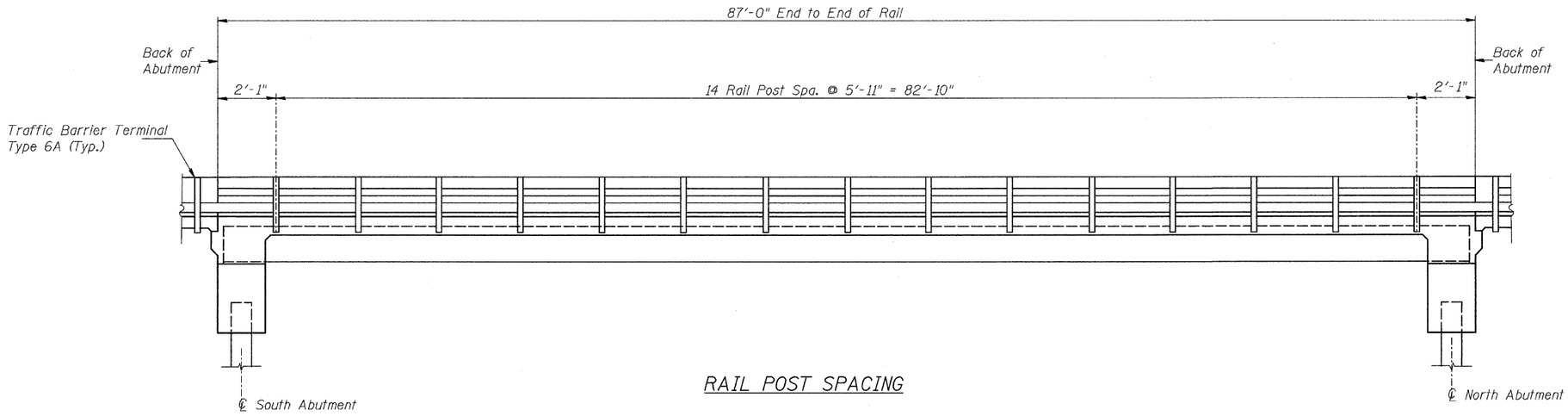


CROSS SECTION
(Looking North)

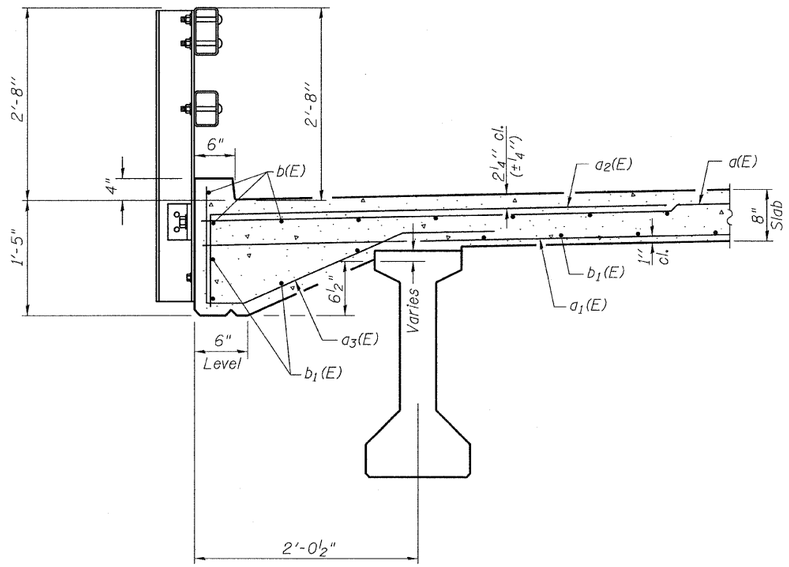
SUPERSTRUCTURE

SHEET NO. 7	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	14
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b007

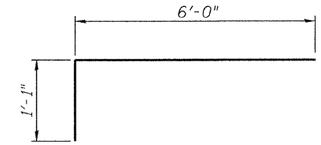


RAIL POST SPACING

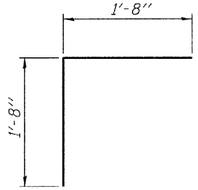


SECTION THRU PARAPET

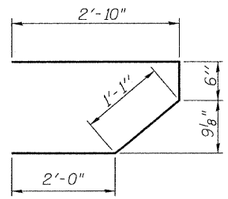
See Sheet 10 of 21 for Rail Post Anchor Details



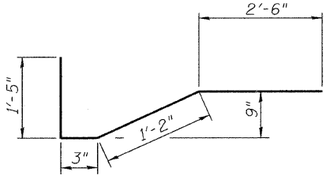
BAR a2(E)



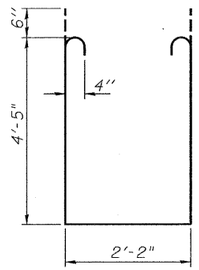
BAR v(E)



BAR s(E)



BAR a3(E)



BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	150	#5	36'-9"	———
a1(E)	105	#5	35'-9"	———
a2(E)	300	#5	7'-1"	⌐¬
a3(E)	150	#5	5'-4"	⌐‾
b(E)	160	#5	23'-0"	———
b1(E)	114	#5	30'-1"	———
m(E)	10	#6	36'-8"	———
m1(E)	24	#6	8'-5"	———
m2(E)	10	#6	4'-5"	———
m3(E)	4	#6	0'-9"	———
s(E)	82	#5	6'-5"	⊐
s1(E)	68	#4	12'-0"	⊓
v(E)	76	#5	3'-4"	⌐
① Reinforcement Bars, Epoxy Coated			Pound	22,420
Concrete Superstructure			Cu. Yd.	119.2

① See Special Provisions

SUPERSTRUCTURE DETAILS

SHEET NO. 8	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	15
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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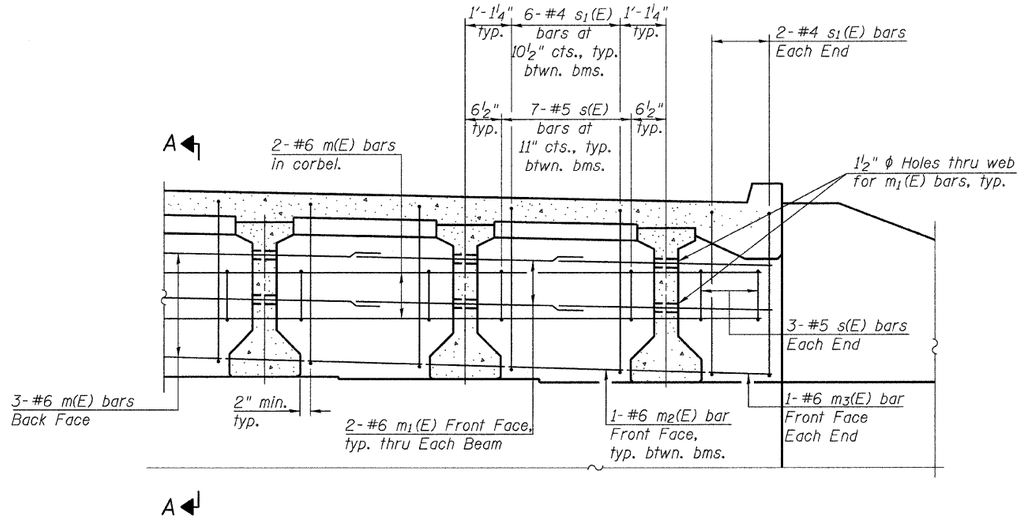
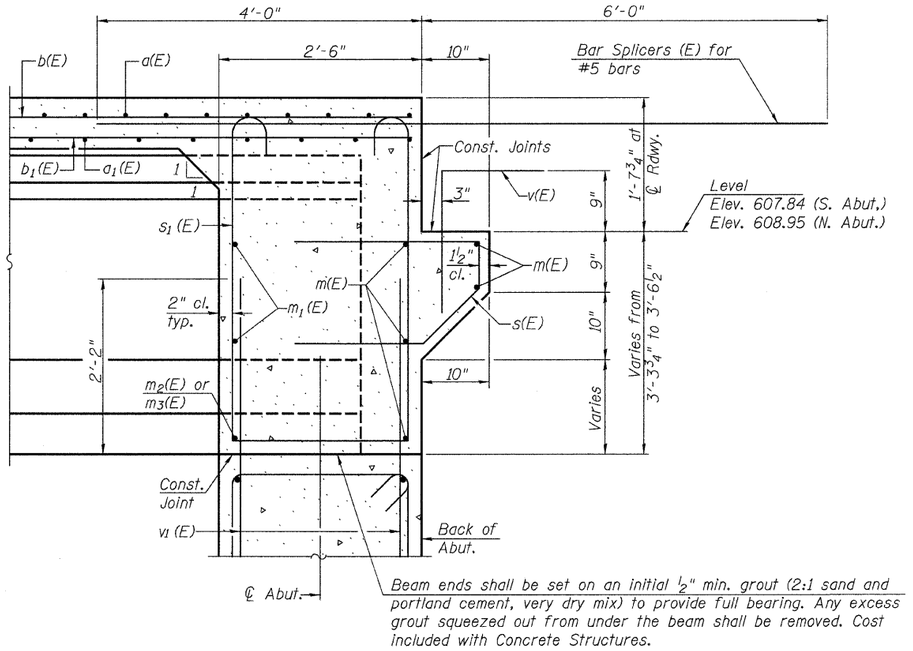


DIAPHRAGM ELEVATION AT ABUTMENT



Beam ends shall be set on an initial ½" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

SECTION A-A

Dimensions at right angles to abutment

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 21.

Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 21.

For details of bar s(E) see sheet 8 of 21.

For placement of v(E) bars see sheet 14 and 15 of 21.

MIN. BAR LAP

#6 bar = 2'-9"

DIAPHRAGM DETAILS

SHEET NO. 9	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	16
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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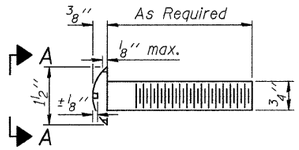
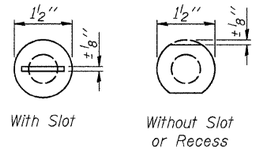
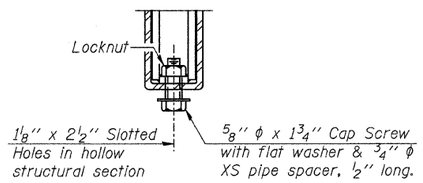
FOR RAIL POST SPACING SEE SH.#8 OF 21.



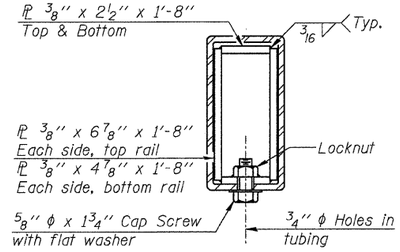
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



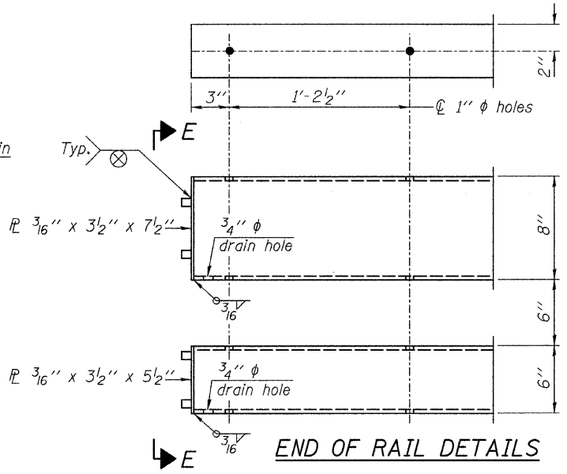
VIEW A-A



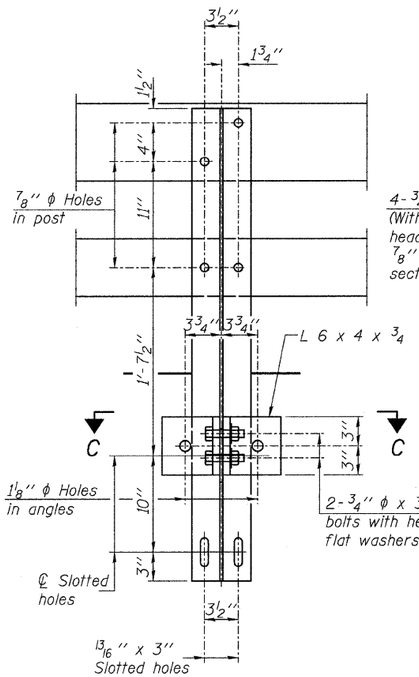
RAIL SPLICE CONNECTION AT EXPANSION JT.



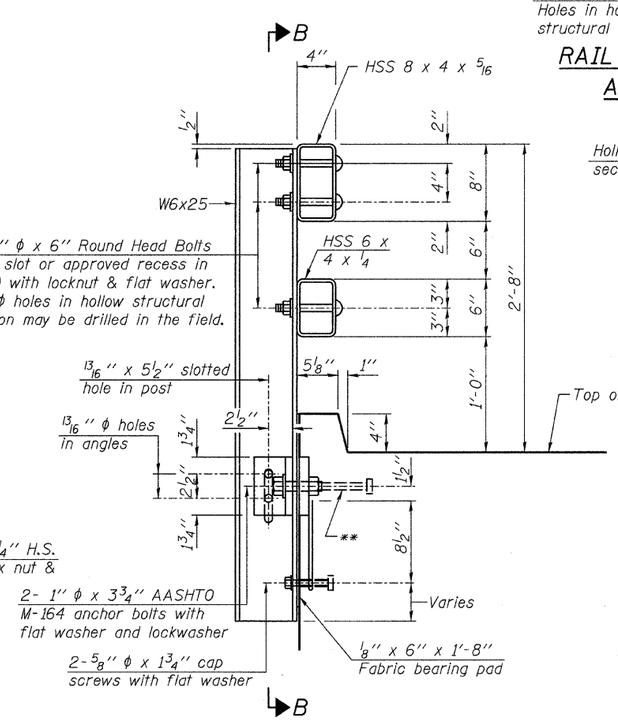
SECTION AT RAIL SPLICE



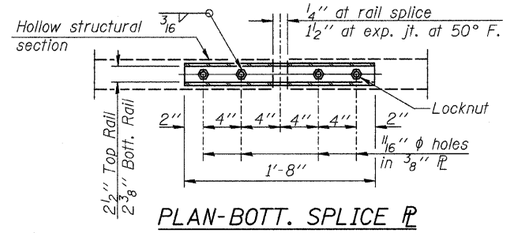
END OF RAIL DETAILS



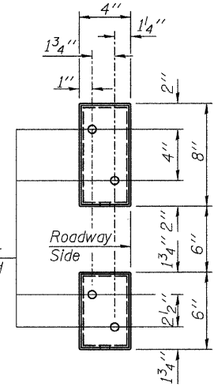
SECTION B-B



SECTION AT RAIL POST



PLAN-BOTT. SPLICE ℄ TYPICAL



VIEW E-E

℄ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

VIEW D-D

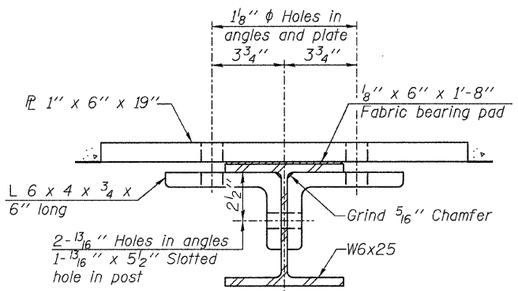
Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

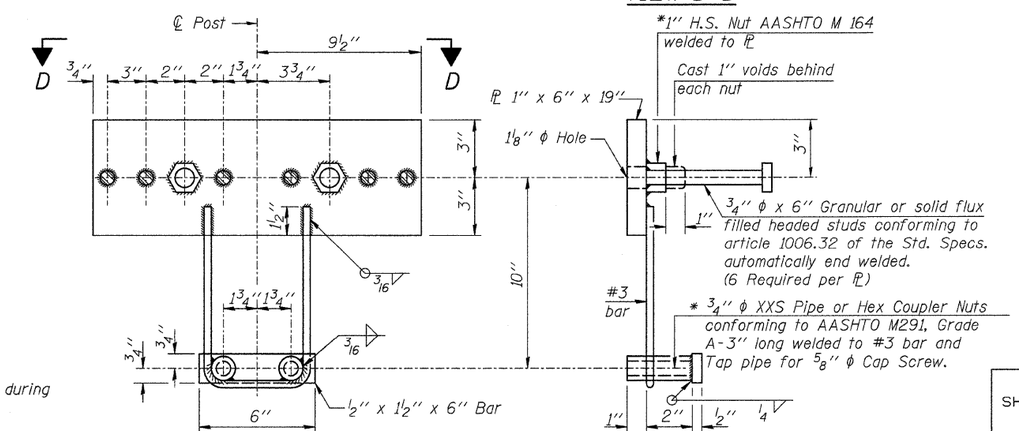
All steel railing elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION C-C

* Threaded areas shall be plugged or blocked off during pouring of deck. Galvanized after fabrication.



ANCHOR DEVICE

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	174

STEEL RAILING TYPE SM, WITH CONCRETE CURB

SHEET NO. 10	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	17
	S.N. 050-3593		CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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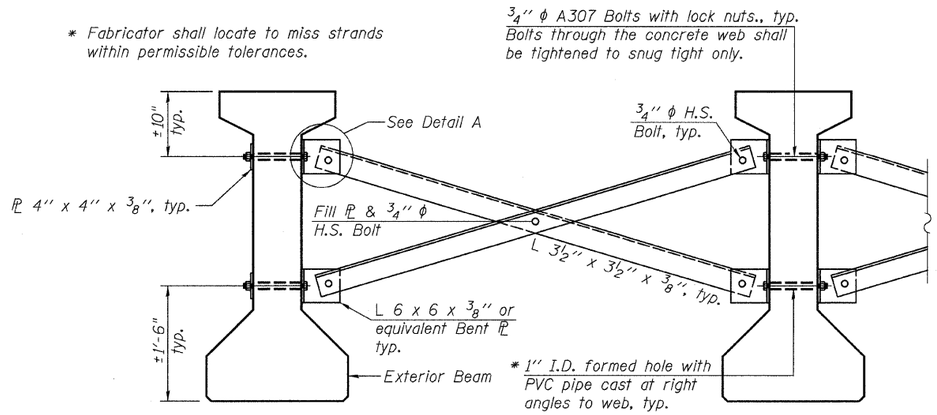


Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

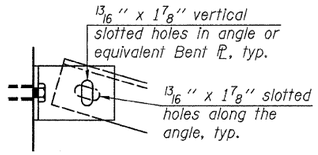
Two hardened washers are required for each set of oversized holes.

All holes shall be 15/16"ϕ unless otherwise noted.

5/16" x 3" x 3" plate washers are required over all slotted holes.

All bolts shall be galvanized according to AASHTO M232.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.



DETAIL A

PERMANENT BRACING DETAILS

Permanent bracing shall not be paid for separately but shall be included in the cost of Furnishing and Erecting Precast Prestressed I-Beams, 48".

I: Non-composite moment of inertia of beam section ($in.^4$).

I': Composite moment of inertia of beam section ($in.^4$).

S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).

S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).

S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).

S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: 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.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

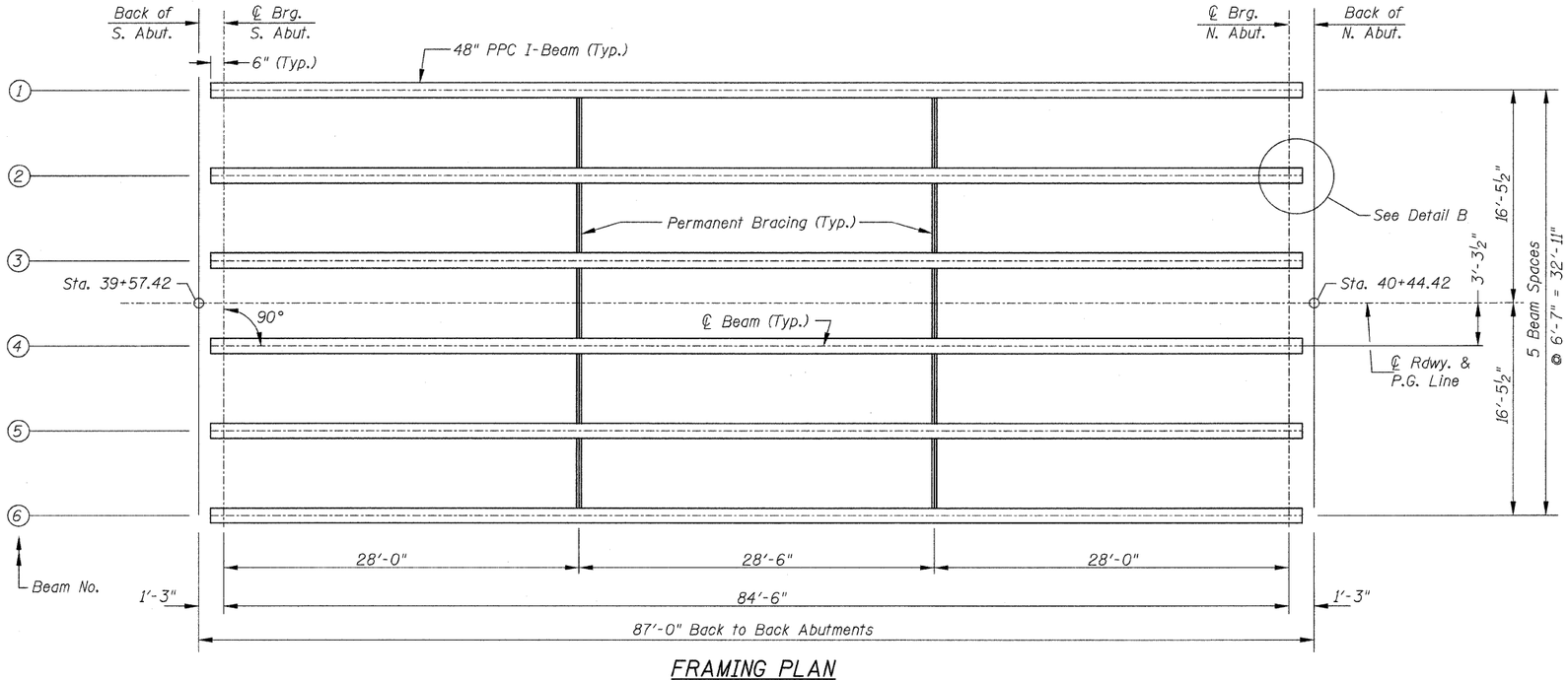
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).

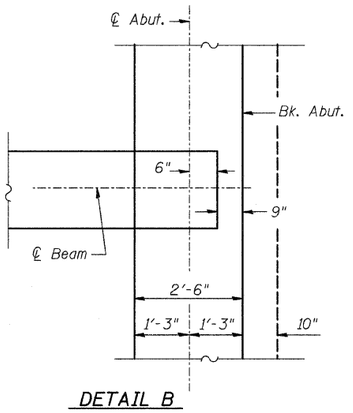
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in^4)	144,117
I'	(in^4)	385,826
S_b	(in^3)	6,834
S_b'	(in^3)	11,127
S_t	(in^3)	5,355
S_t'	(in^3)	28,956
DC1	(k/')	1.29
M_{DC1}	('k)	1,157
DC2	(k/')	0.03
M_{DC2}	('k)	30
DW	(k/')	0.33
M_{DW}	('k)	294
M_{L+Imp}	('k)	1,347

INTERIOR BEAM REACTION TABLE		
		Abut.
R_{DC1}	(k)	54.5
R_{DC2}	(k)	1.4
R_{DW}	(k)	13.9
R_{L+Imp}	(k)	80.0
R_{Total}	(k)	149.8



FRAMING PLAN



DETAIL B

(Typical @ Abutments)

SHEET NO. 11	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	18
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FRAMING PLAN

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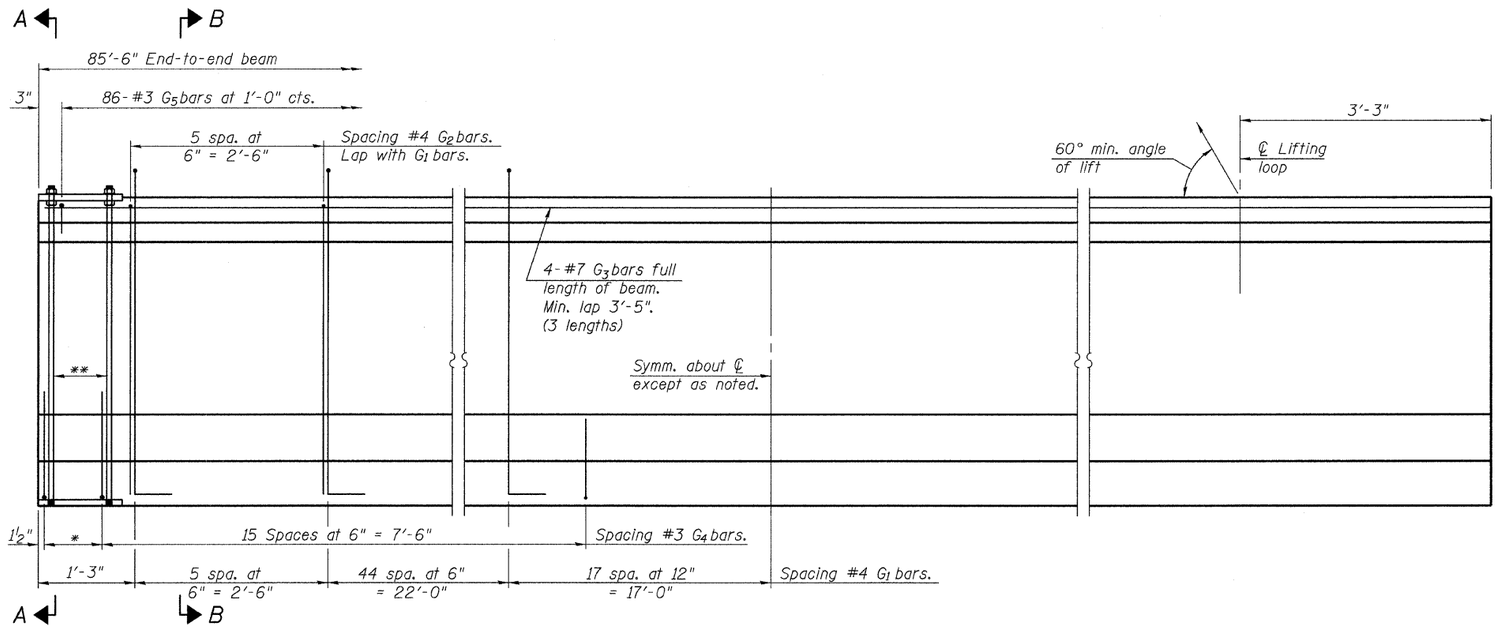
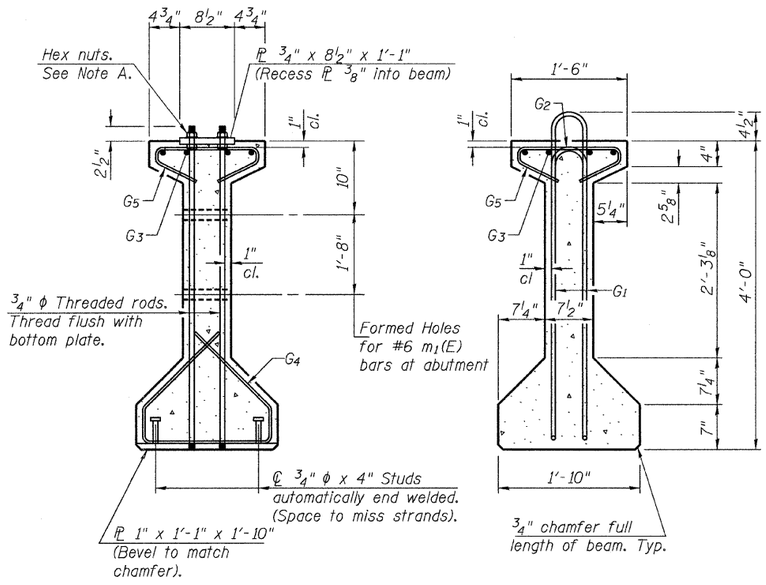


*3 spaces at 3" = 9".
**4-¾" ϕ threaded dowel rods at 3" cts., Each Face.

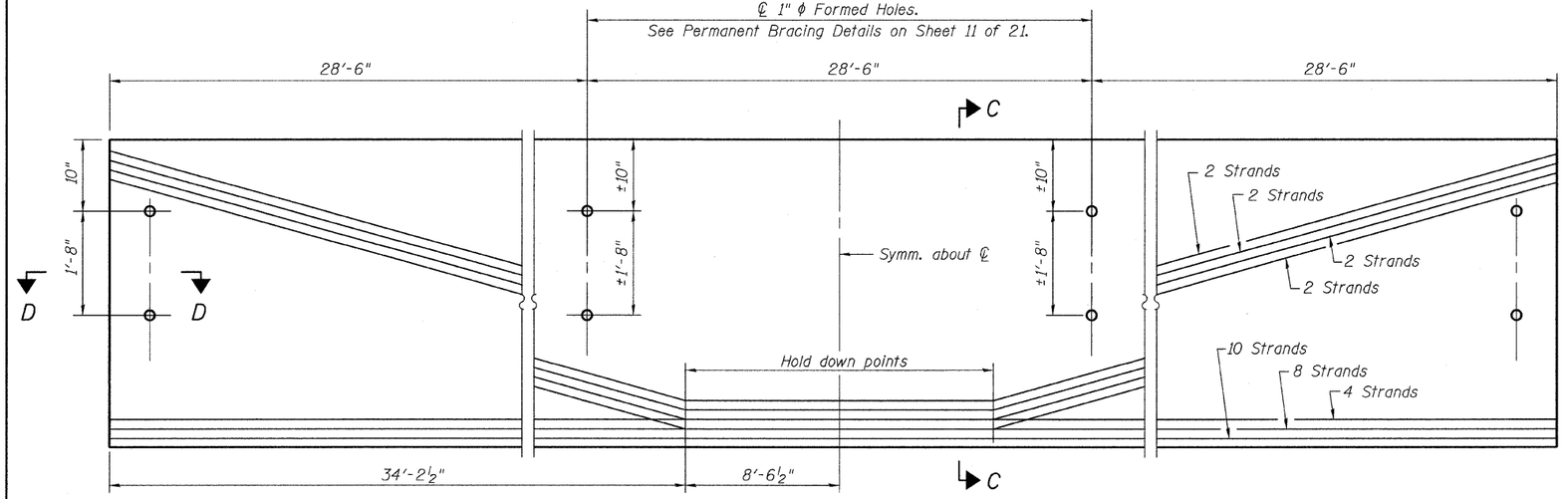
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



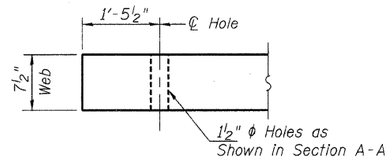
SECTION A-A

SECTION B-B

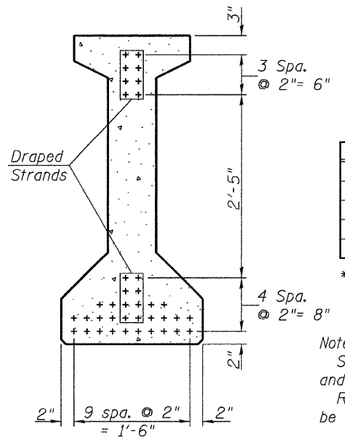
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION D-D



SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	133	#4	9'-6"	
G_2	12	#4	7'-11"	
G_3	12	#7	30'-9"	
G_4	38	#3	5'-3"	
G_5	86	#3	2'-9"	

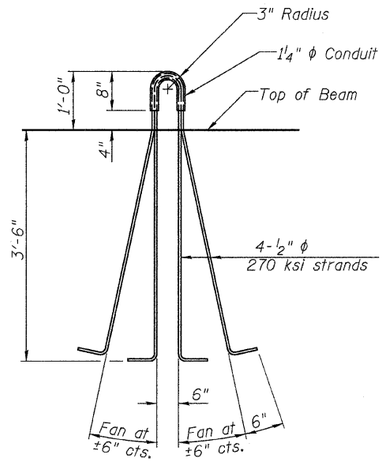
***For information only

Notes:
See sheet 12 of 21 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6,000 psi.

2656b012

48" PPC I-BEAM

SHEET NO. 12	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	19
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		



LIFTING LOOP DETAIL

NOTES

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

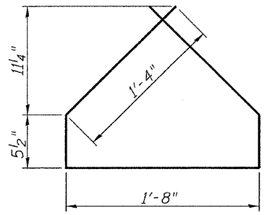
A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Tilt G_6 bars when necessary to maintain 1½" clearance.

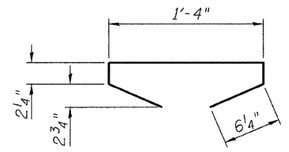
The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111.

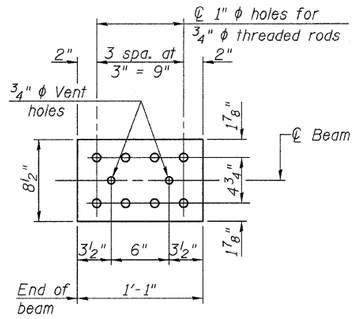
Threaded rods shall be ASTM F 1554 Grade 55.



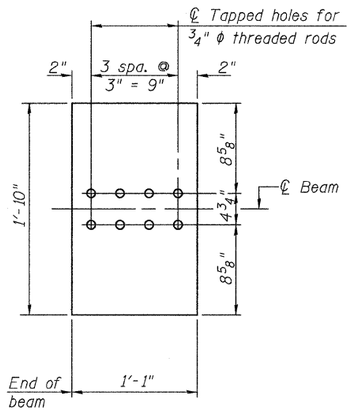
BAR G4



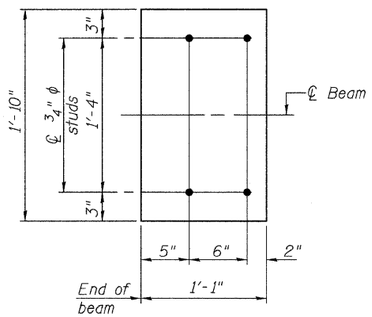
BAR G5



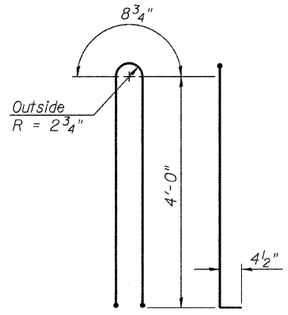
TOP PLATE



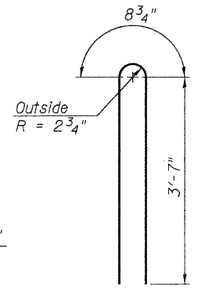
BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)



BAR G1



BAR G2

BILL OF MATERIAL

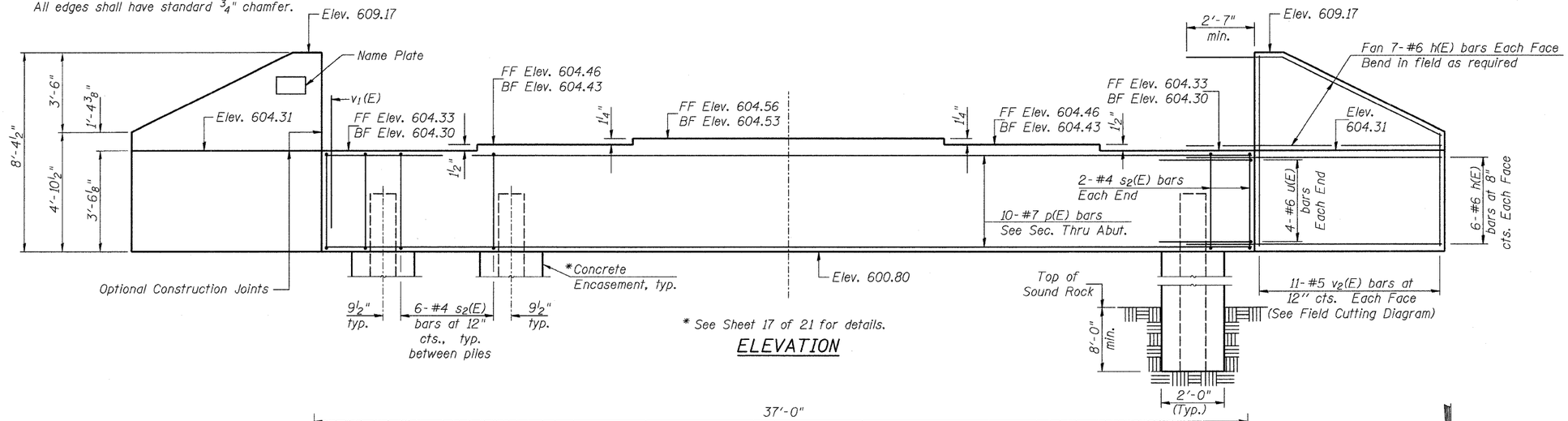
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48"	Ft.	513

48" PPC I-BEAM DETAILS

SHEET NO. 13	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	20
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

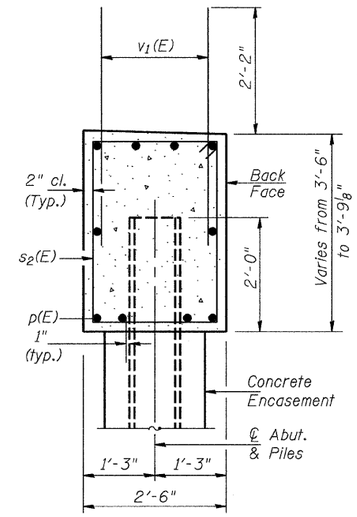
2656b013

Notes:
Pour steps monolithically with cap.
All edges shall have standard $\frac{3}{4}$" chamfer.

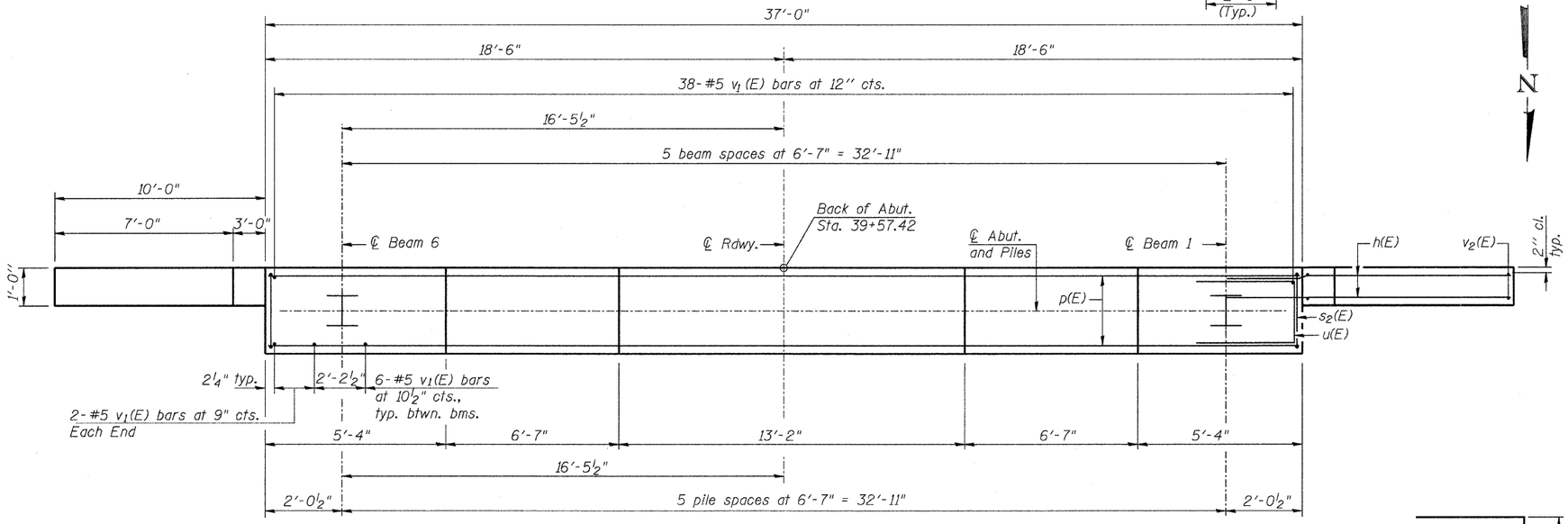


* See Sheet 17 of 21 for details.

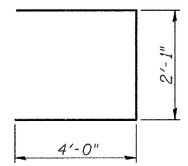
ELEVATION



SEC. THRU ABUT.



PLAN



BAR u(E)

BILL OF MATERIAL
SOUTH ABUTMENT

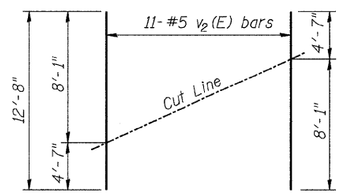
	Bar	No.	Size	Length	Shape
	h(E)	52	#6	12'-6"	——
	p(E)	10	#7	36'-9"	——
	s_2(E)	34	#4	11'-5"	□
	u(E)	8	#6	10'-1"	⊐
	v_1(E)	72	#5	4'-4"	——
	v_2(E)	22	#5	12'-8"	——
	Structure Excavation			Cu. Yd.	125
	Concrete Structures			Cu. Yd.	17.8
(1)	Reinforcement Bars, Epoxy Coated			Pound	2,730
	Name Plates			Each	1
	Furnishing Steel Piles HP12x63			Foot	114
	Concrete Encasement			Cu. Yd.	6.3
(1)	Setting Piles in Rock			Each	6

(1) See Special Provisions

For details of Piles and Concrete Encasement, see sheet 17 of 21.

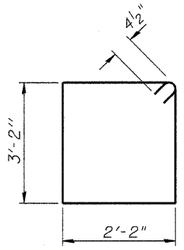
PILE DATA

Type: HP12x63
Nominal Required Bearing: Set in Rock (497k)
Factored Resistance Available: (249k)
Est. Length: 19'
No. Required: 6



FIELD CUTTING DIAGRAM

Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



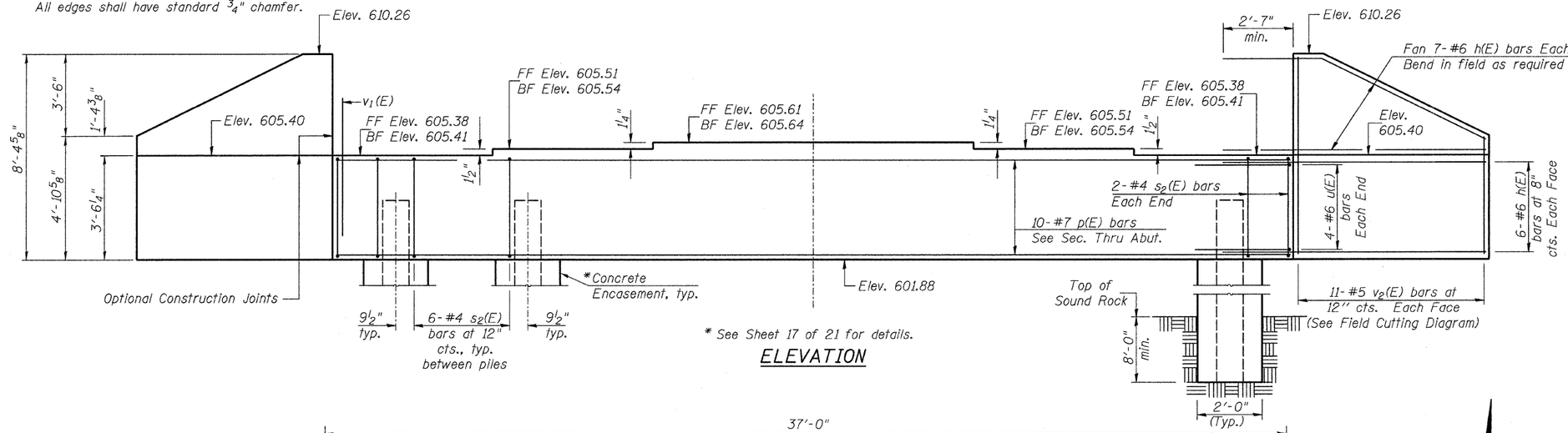
BAR s_2(E)

SOUTH ABUTMENT

SHEET NO. 14	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	21
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

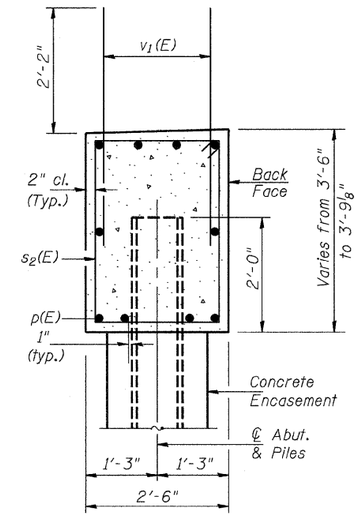
2656b014

Notes:
Pour steps monolithically with cap.
All edges shall have standard $\frac{3}{4}$" chamfer.

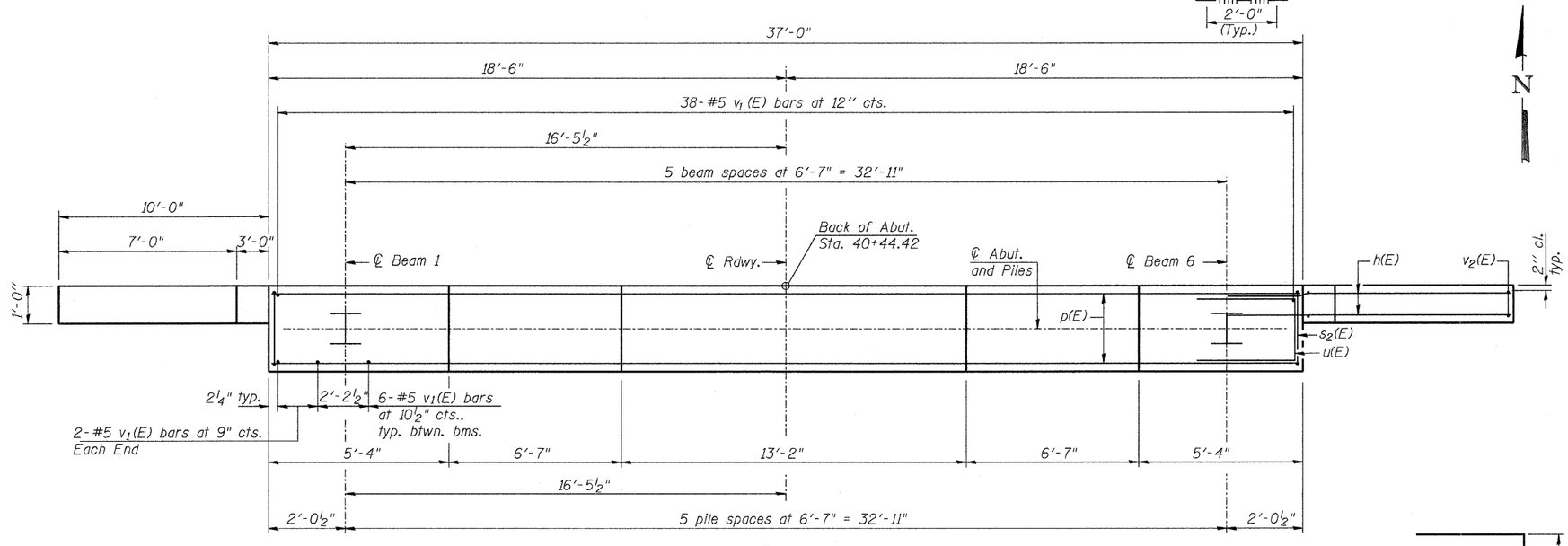


* See Sheet 17 of 21 for details.

ELEVATION



SEC. THRU ABUT.



PLAN

BILL OF MATERIAL
NORTH ABUTMENT

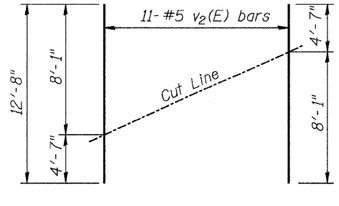
	Bar	No.	Size	Length	Shape
	h(E)	52	#6	12'-6"	
	p(E)	10	#7	36'-9"	
	s2(E)	34	#4	11'-5"	
	u(E)	8	#6	10'-1"	
	v1(E)	72	#5	4'-4"	
	v2(E)	22	#5	12'-8"	
	Structure Excavation			Cu. Yd.	125
	Concrete Structures			Cu. Yd.	17.8
(1)	Reinforcement Bars, Epoxy Coated			Pound	2,730
	Furnishing Steel Piles HP12x63			Foot	144
	Concrete Encasement			Cu. Yd.	9.1
(1)	Setting Piles in Rock			Each	6

(1) See Special Provisions

For details of Piles and Concrete Encasement, see sheet 17 of 21.

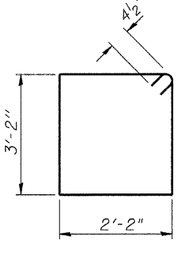
PILE DATA

Type: HP12x63
Nominal Required Bearing: Set in Rock (497k)
Factored Resistance Available: (249k)
Est. Length: 24'
No. Required: 6

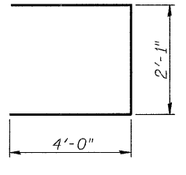


FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)

NORTH ABUTMENT

SHEET NO. 15	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	22
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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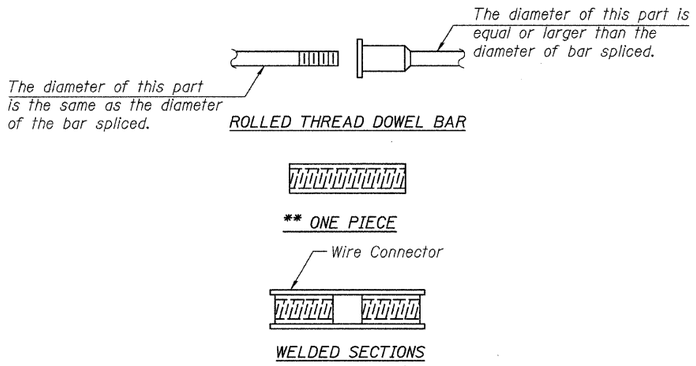
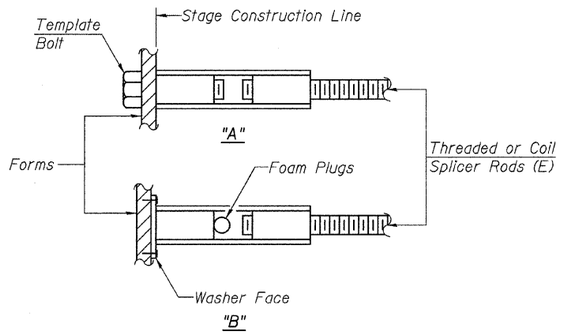


BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

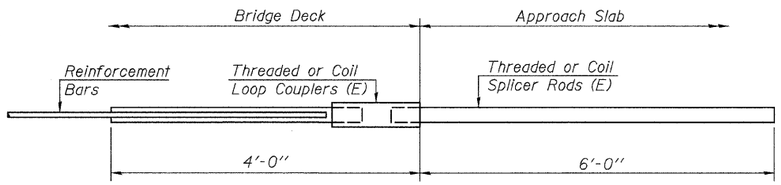
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times fy \times A_t$

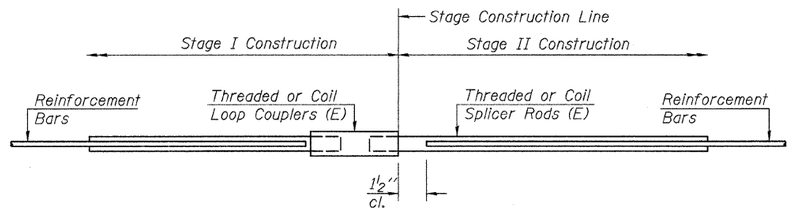
Where fy = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 74



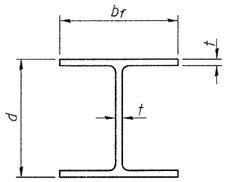
STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS

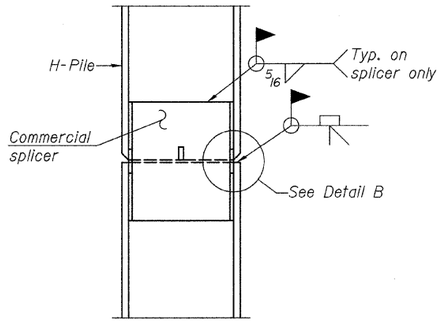
SHEET NO. 16	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	23
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b016

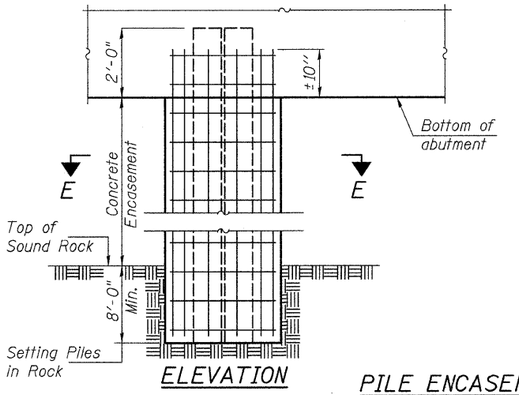


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

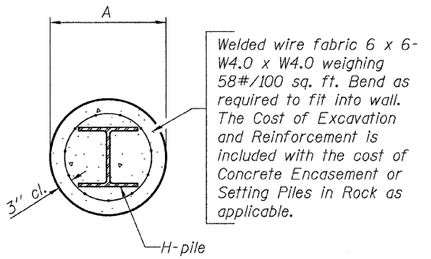


ELEVATION



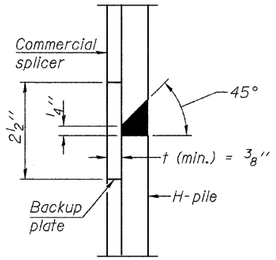
ELEVATION

PILE ENCASEMENT

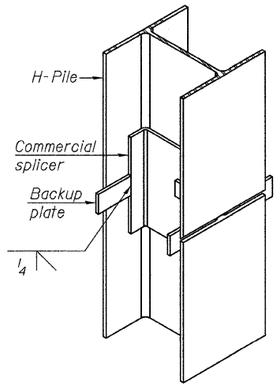


Note:
Forms for encasement may be omitted when soil conditions permit.

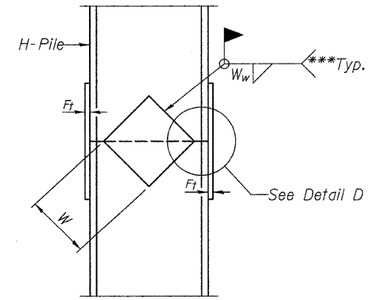
SECTION E-E



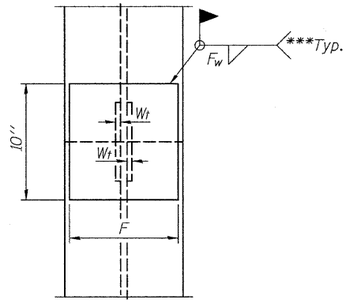
DETAIL "B"



ISOMETRIC VIEW

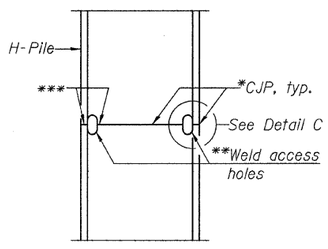


ELEVATION

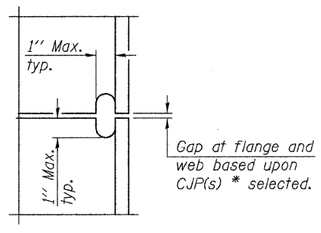


END VIEW

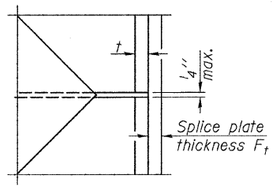
WELDED COMMERCIAL SPLICE



ELEVATION



DETAIL C



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

COMPLETE PENETRATION WELD SPLICE

* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

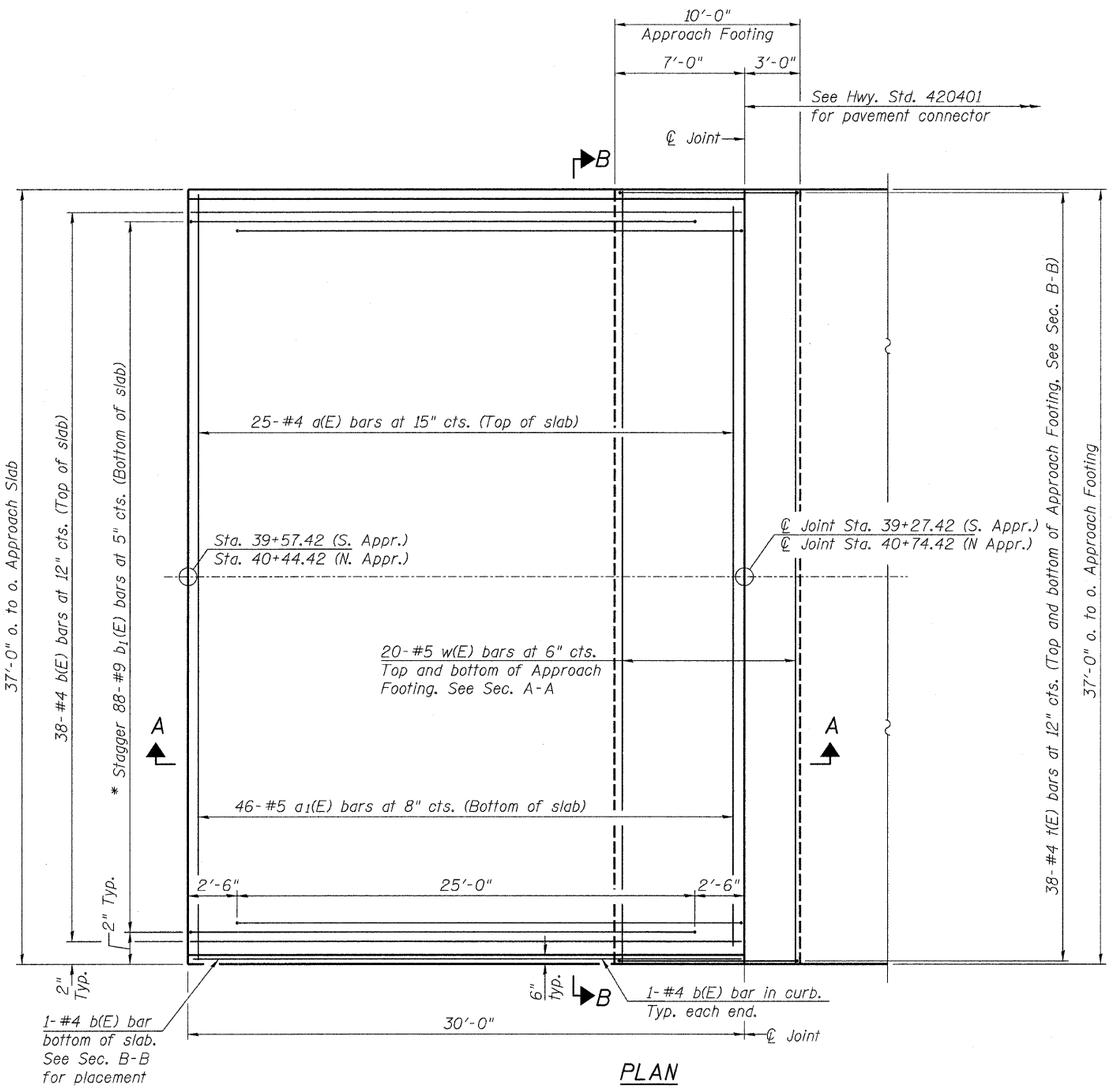
*** Interrupt welds 1/4" from end of each pile.

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

HP PILE DETAILS

SHEET NO. 17	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	24
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b017



PLAN

* Tilt #9 b_1(E) bars as required to maintain clearance.

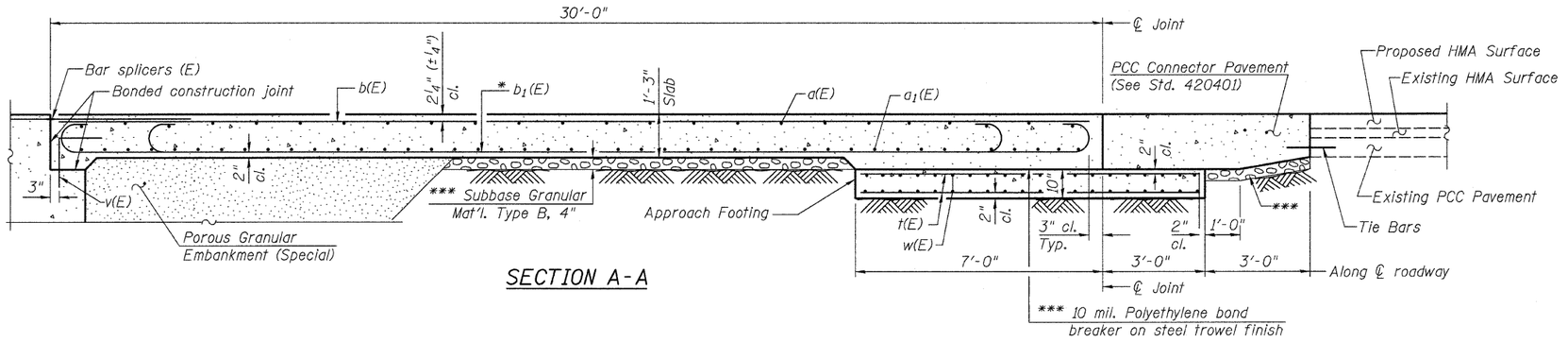
Notes:
See sheet 19 of 21 for Sections A-A & B-B.
a(E), a_1(E), and w(E) bar spacings measured perpendicular to ℄ Rdwy.

(Sheet 1 of 2)

BRIDGE APPROACH SLAB DETAILS

SHEET NO. 18	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	25
	S.N. 050-3593		CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b018



SECTION A-A

Notes:

For v(E) bar details, see sheet 8 of 21.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

For bar splicer details, see sheet 16 of 21.

For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 21.

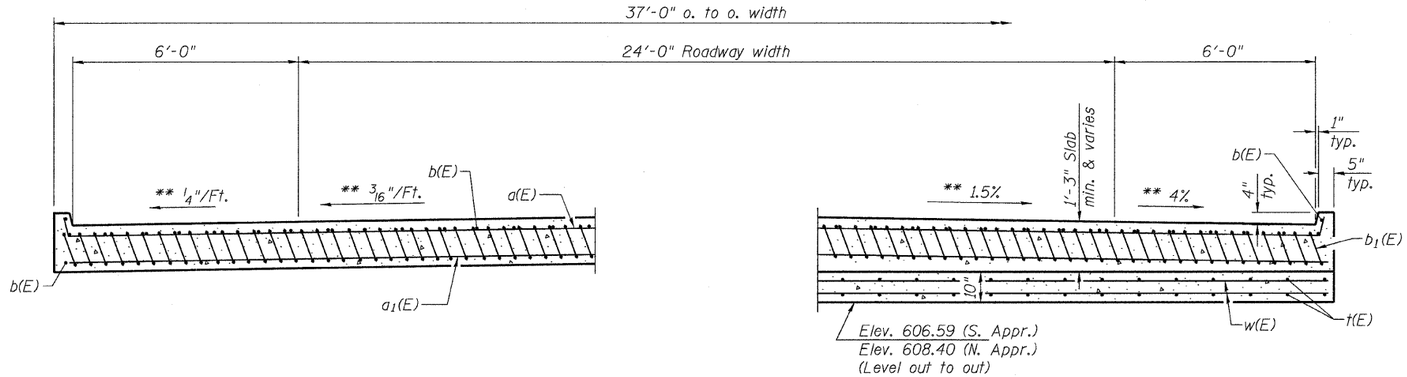
Approach slab concrete shall be Class BS.

Approach footing concrete shall be Class SI.

The cost of concrete and reinforcement in approach slab and footing are included with Bridge Approach Pavement.

The cost of Excavation for approach footing is included with Bridge Approach Pavement.

The cost of tie bars between the existing and connector pavements is included with Bridge Approach Pavement Connector (PCC).



NEAR ABUTMENT

AT APPROACH FOOTING

SECTION B-B

(See Plan for dimensions not shown)

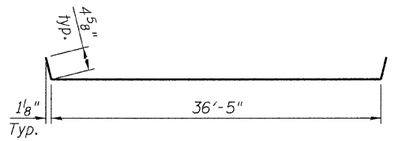
* Tilt #9 b_1(E) bars as required to maintain clearance.

** Slopes transition on approach slab from 3/16"/Ft. to 1.5% on lanes and from ¼"/Ft. to 4% on shoulders.

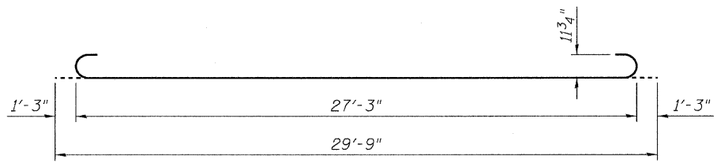
*** Cost included with Bridge Approach Pavement or Bridge Approach Pavement Connector (PCC), as applicable.

BAR LIST
ONE APPROACH PAVEMENT

Bar	No.	Size	Length	Shape
a(E)	25	#4	37'-3"	
a_1(E)	46	#5	36'-8"	
b(E)	41	#4	29'-8"	
b_1(E)	88	#9	29'-9"	
t(E)	76	#4	9'-8"	
w(E)	40	#5	36'-8"	



BAR a(E)



BAR b_1(E)

TWO APPROACHES
BILL OF MATERIAL

Item	Unit	Total
Bridge Approach Pavement	Sq Yd	247

(Sheet 2 of 2)

BRIDGE APPROACH SLAB DETAILS

SHEET NO. 19	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	26
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b019

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

BORING LOG

Sheet 1 of 2

Client: Hutchison Engineering, Inc.
Project Name: Sec 10-00649-00-BR CH-29 Over Egg Bag Creek
Project Site: LaSalle County, Illinois

Boring No. B-1
Surface Elev. 609.05
Auger Depth 41' Rotary Depth NA
Start Date 11/23/08 Finish Date 11/23/08

Location: 15' Left of Station 39+57

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
609.05											
608.05			1								
607.05			2								
606.05	Stiff Brown And Gray Gravely Clay (Fill)		3	1	SS	1.7	14	S	16		
605.05			4								
604.05			5	2	SS	1.4	12	S	19		
603.05			6								
602.05			7								
601.05			8	3	SS	1.9	12	B	21		
600.05			9								
599.05			10								
598.05	Stiff Black Silty Clay		11	4	SS	1.5	10	B	23		
597.05			12								
596.05			13	5	SS	---	76	---	13		
595.05			14								
594.05			15								
593.05	Very Dense Gray Shale		16	6	SS	---	83	---	13		
592.05			17								
591.05			18	7	SS	---	100/10"	---	12		
590.05			19								
589.05			20	8	SS	---	100/6"	---	10		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

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Peru, IL 61354
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Fax: 815-223-6659
e-mail: midwest.07@insightbb.com

BORING LOG

Sheet 2 of 2

Client: Hutchison Engineering, Inc.
Project Name: Sec 10-00649-00-BR CH-29 Over Egg Bag Cre
Project Site: LaSalle County, Illinois

Boring No. B-1
Surface Elev. 609.05
Auger Depth 41' Rotary Depth NA
Start Date 11/23/08 Finish Date 11/23/08

Location: 15' Left of Station 39+57

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
588.05											
587.05			22								
586.05			23	9	SS	---	100/7"	---	12		
585.05			24								
584.05			25	10	SS	---	100/8"	---	13		
583.05			26								
582.05			27								
581.05			28	11	SS	---	100/6"	---	11		
580.05			29								
579.05	Very Dense Gray Shale With Concretions		30								
578.05			31	12	SS	---	100/6"	---	10		
577.05			32								
576.05			33								
575.05			34								
574.05			35	13	SS	---	100/4"	---	10		
573.05			36								
572.05			37								
571.05			38								
570.05			39								
569.05			40								
568.05	Bottom of Boring		41	14	SS	---	100/3"	---	10		

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

SOIL BORING LOGS

SHEET NO. 20	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	27
	S.N. 050-3593		CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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

BORING LOG

Sheet 1 of 2

Client: Hutchison Engineering, Inc.
Project Name: Sec 10-00649-00-BR CH-29 Over Egg Bag Creek
Project Site: LaSalle County, Illinois

Boring No. B-2
Surface Elev. 610.04
Auger Depth 41' Rotary Depth NA
Start Date 11/23/08 Finish Date 11/23/08

Location: 13' Right of Station 40+43

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
610.04											
609.04			1								
608.04			2								
607.04			3	1	SS	2.2	15	S	15		
606.04			4								
605.04			5	2	SS	1.8	11	B	20		
604.04	Very Stiff To Stiff Black, Brown And Gray Clay To Gravely Clay (Fill)		6								
603.04			7								
602.04			8	3	SS	1.1	8	B	24		
601.04			9								
600.04			10								
599.04			11	4	SS	2.3	14	S	18		
598.04			12								
597.04	Stiff Brownish Gray Silty Clay		13	5	SS	1.8	12	B	20		
596.04			14								
595.04			15	6	SS	---	33	---	---		
594.04			16								
593.04	Dense Brown And Gray Fine Coarse Sand		17								
592.04			18	7	SS	---	38	---	---		
591.04			19								
590.04	Dense Olive Brown And Gray Weathered Shale		20	8	SS	---	47	---	---		

Groundwater Data: Seepage encountered at 17' depth.
Comments: Static water level after auger removal 17' depth.

Midwest Testing Services, Inc.
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Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: midwest.07@insightbb.com

BORING LOG

Sheet 2 of 2

Client: Hutchison Engineering, Inc.
Project Name: Sec 10-00649-00-BR CH-29 Over Egg Bag Cre
Project Site: LaSalle County, Illinois

Boring No. B-2
Surface Elev. 610.04
Auger Depth 41' Rotary Depth NA
Start Date 11/23/08 Finish Date 11/23/08

Location: 13' Right of Station 40+43

DRILLED BY: Randy Safranski
Diedrich D-120

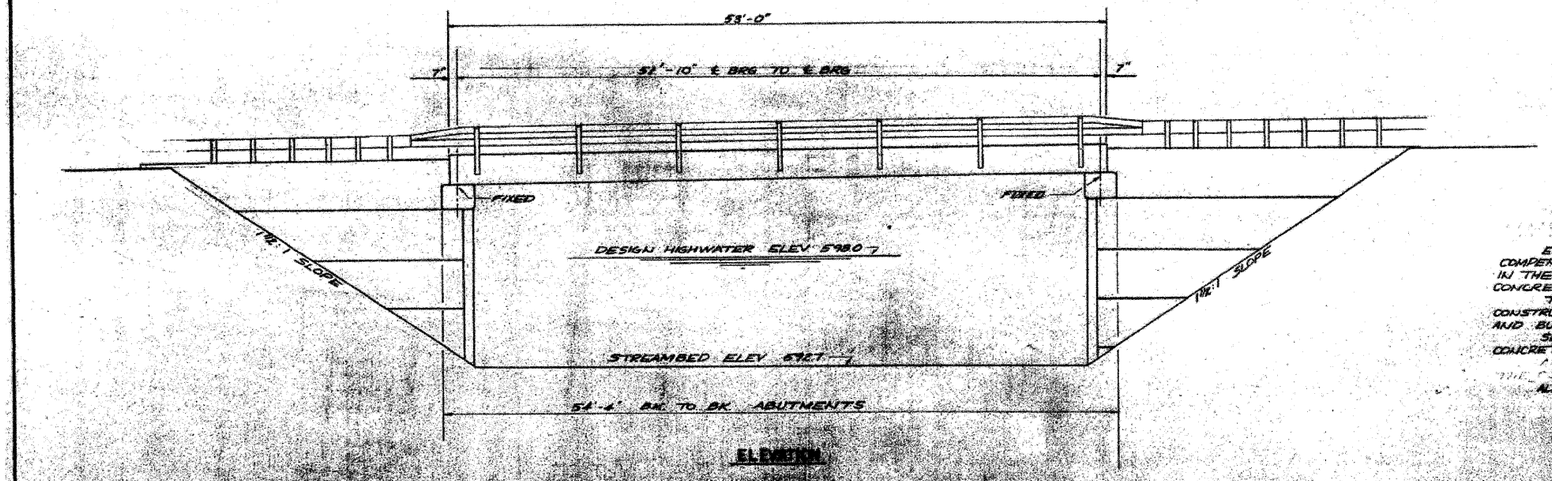
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
589.04			22								
588.04			23	9	SS	---	100 / 9"	---	12		
587.04			24								
586.04			25								
585.04			26	10	SS	---	100 / 6"	---	12		
584.04			27								
583.04			28	11	SS	---	100 / 5"	---	11		
582.04			29								
581.04	Very Dense Gray Shale With Concretions		30								
580.04			31	12	SS	---	100 / 7"	---	11		
579.04			32								
578.04			33								
577.04			34								
576.04			35								
575.04			36	13	SS	---	100 / 4"	---	10		
574.04			37								
573.04			38								
572.04			39								
571.04			40								
570.04			41	14	SS	---	100 / 2"	---	9		
569.04	Bottom of Boring										

Groundwater Data: Seepage encountered at 17' depth.
Comments: Static water level after auger removal 17' depth.

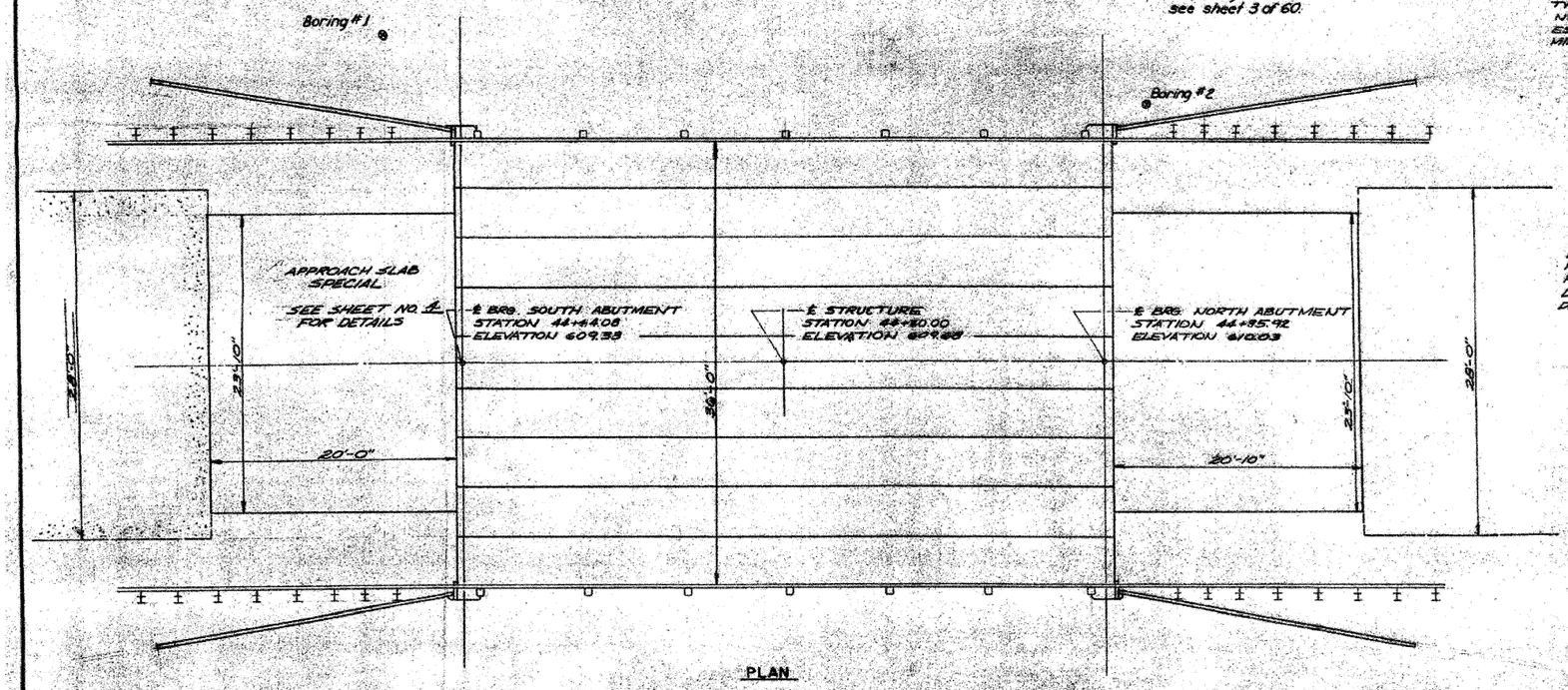
SOIL BORING LOGS

SHEET NO. 21	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	28
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b021



Note: For boring locations see sheet 3 of 60.



GENERAL NOTES

EXCAVATION FOR STRUCTURES SHALL NOT BE CLASSIFIED COMPENSATION FOR SUCH SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST PRESTRESSED CONCRETE PLANK.

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED BY THE DEPARTMENT OF PUBLIC WORKS AND BUILDINGS ON JANUARY 2, 1974 SHALL APPLY TO THIS WORK.

SEE SPECIAL PROVISIONS FOR THE ITEM PRECAST PRESTRESSED CONCRETE PLANK.

ALL HARDWARE SHALL BE HOT-DIPPED GALVANIZED.

PILE DATA

TYPE ..... STEEL PILE HP 8"x36"
NUMBER REQUIRED 36
ESTIMATED LENGTH ..... (19 Abut Piles) (17 Wing Piles)
MINIMUM CAPACITY ..... As Detailed

WATERWAY INFORMATION

DRAINAGE AREA	15.9	SQ MILES
EXISTING OPENING	202	SQ FT
REQUIRED OPENING	260	SQ FT
PROPOSED OPENING	260	SQ FT
DESIGN FREQUENCY	25	YEARS
DESIGN DISCHARGE	1441	C.F.S.

NAME PLATE

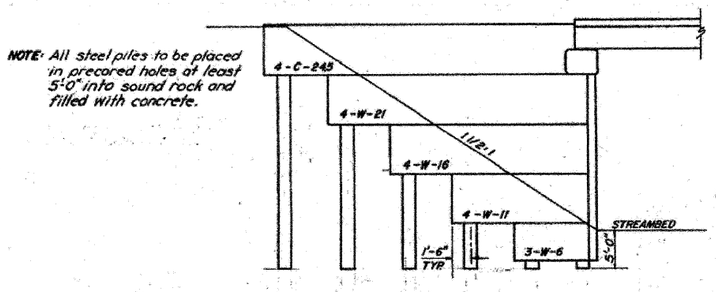
STATION 44+70.00
EGG BAG CREEK
BUILT 197
FAS RTE 1284 SEC. 138-G
FAS PROJ. S-1284(106)
LOADING HS 20

GENERAL PLAN & ELEVATION
EGG BAG CREEK
SECTION 138-G
LASALLE COUNTY
STATION 44+70.00

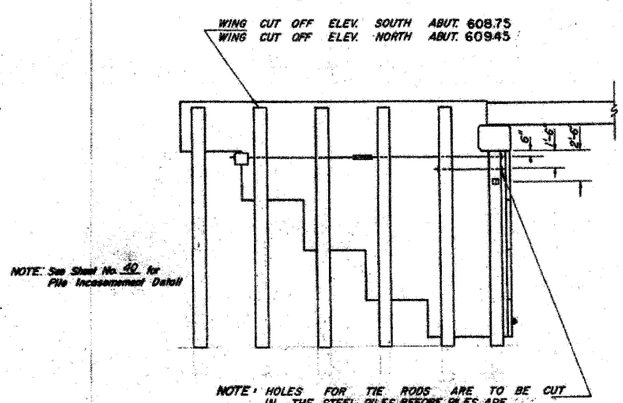
EXISTING STRUCTURE PLANS

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	29
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

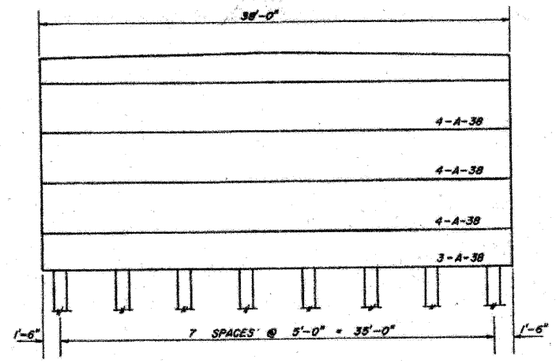
2656b022



WING ELEVATION



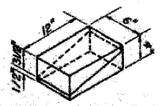
SECTION A-A



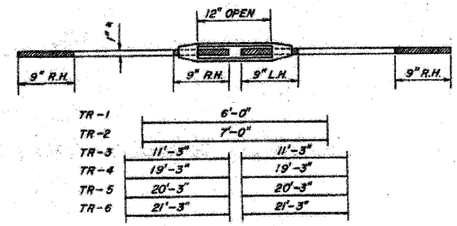
ABUTMENT ELEVATION

NOTE: SEE SHEET NO. 41 FOR PLANK HANGING DETAIL.

Note: Planks 4-W-11 & 3-W-6 may be omitted if sound rock is encountered in the field.

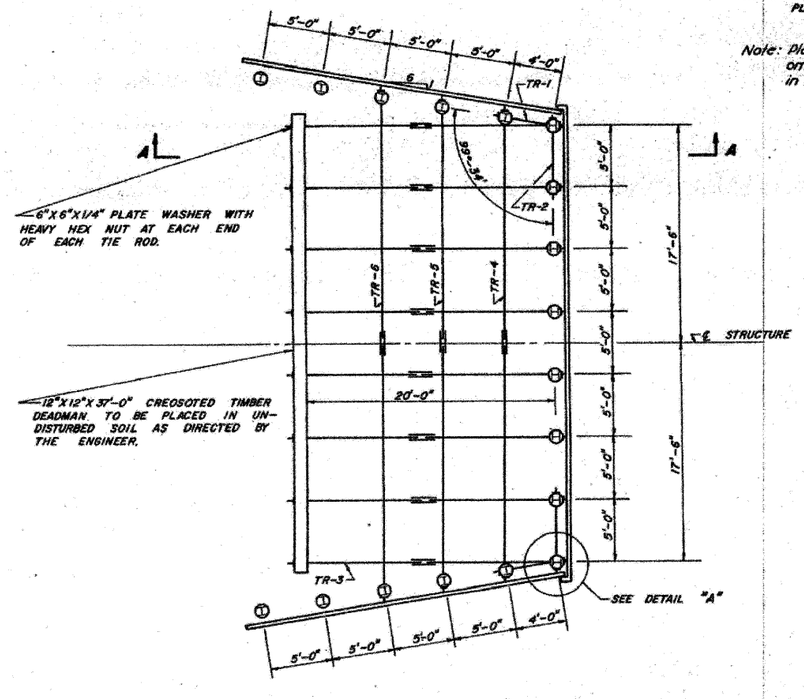


TIMBER WEDGES

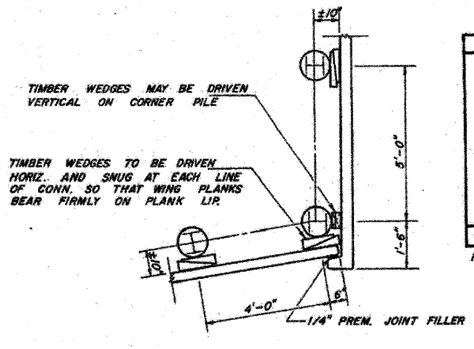


TR-1	6'-0"
TR-2	7'-0"
TR-3	11'-3" / 11'-3"
TR-4	19'-3" / 19'-3"
TR-5	20'-3" / 20'-3"
TR-6	21'-3" / 21'-3"

TIE RODS



PLAN



DETAIL "A"

HARDWARE

NO.	ITEM	LENGTH
4	TIE RODS 1" ø TR-1	6'-0"
4	TIE RODS 1" ø TR-2	7'-0"
16	TIE RODS 1" ø TR-3	22'-6"
2	TIE RODS 1" ø TR-4	36'-6"
2	TIE RODS 1" ø TR-5	40'-6"
2	TIE RODS 1" ø TR-6	42'-6"
22	TURNBUCKLES 1" ø	
60	6"X6"X1/4" PLATE WASHERS	
60	HEAVY HEX NUTS	
TOTAL POUNDS		2068

INCLUDES 3 1/2 % FOR GALVANIZING

TREATED TIMBER

NO	ITEM	SIZE	LENGTH
2	DEADMEN	12"X12"	37'-0"
248	WEDGES (PAIR)	4"X6"	1'-0"
TOTAL F.B.M.			1408

ABUTMENT DETAIL
EGG BAG CREEK
SECTION 138-G
LASALLE COUNTY
STATION 44+70.00

EXISTING STRUCTURE PLANS

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	30
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b023

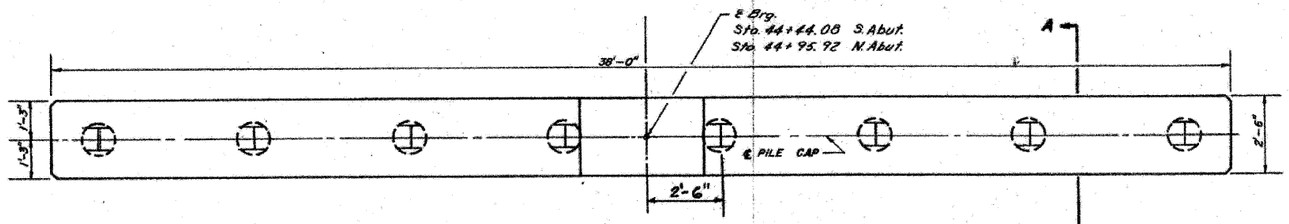
U BAR

S BAR

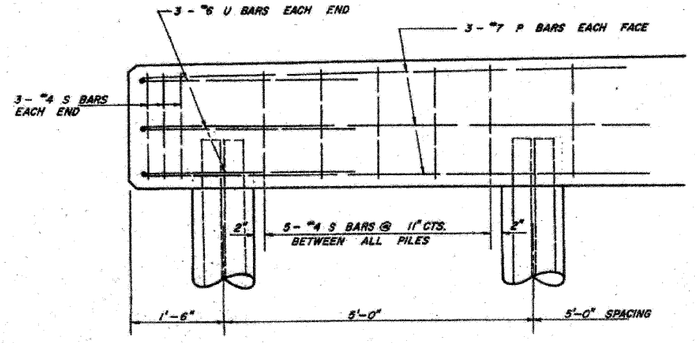
BILL OF MATERIAL *

BAR	NO.	SIZE	LENGTH	SHAPE
P	6	#7	37'-9"	
S	41	#4	8'-5"	
U	6	#6	9'-1"	
REINFORCEMENT BARS			LBS.	775
CLASS X CONCRETE			CU. YD.	7.3

* QUANTITY IS FOR ONE CAP ONLY

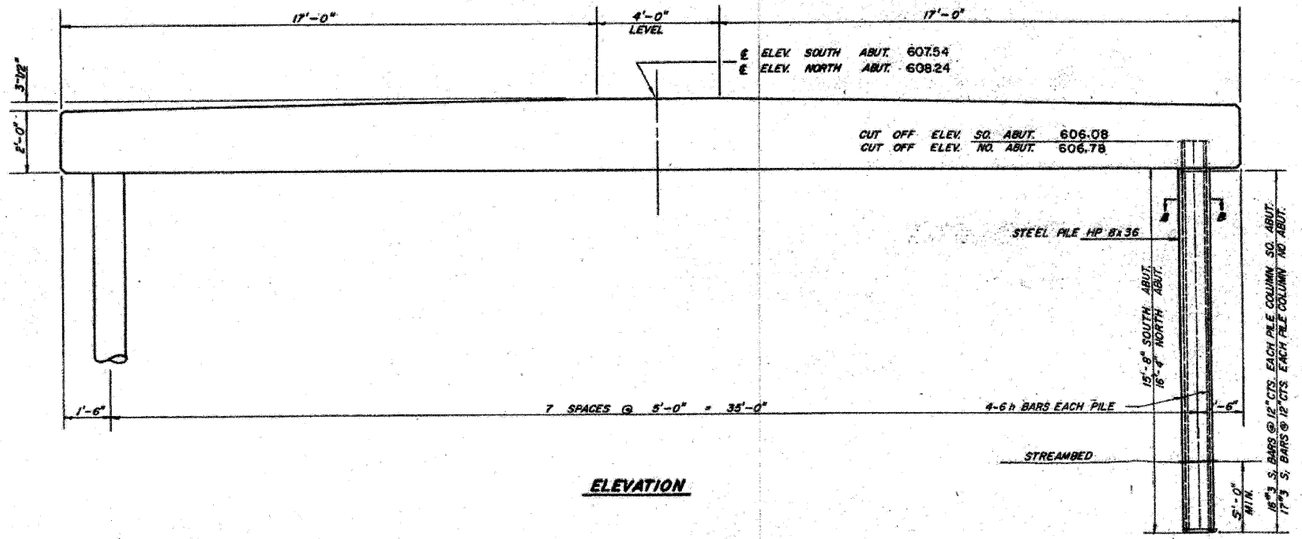


PLAN



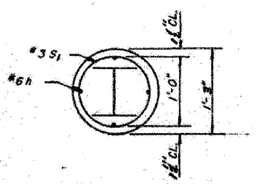
PARTIAL ELEVATION SHOWING REINFORCEMENT

NOTE: ALL REINFORCEMENT BARS SHALL BE LAPPED A MINIMUM OF 24 BAR DIA.

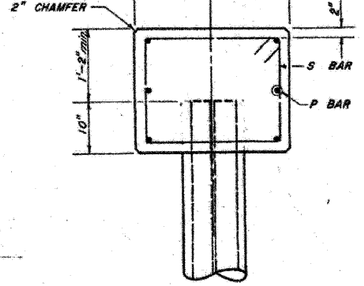


ELEVATION

S_1 BAR



SECTION B-B



SECTION A-A

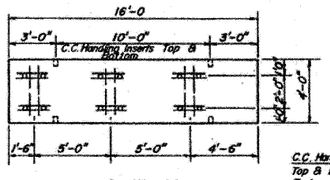
Note: For setting of piles in rock see Special Provisions.

CONCRETE PILE CAP
EGG BAG CREEK
SECTION 138-G
LASALLE COUNTY
STATION 44+70.00

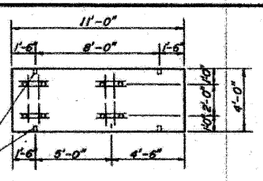
EXISTING STRUCTURE PLANS

SHEET NO. 3	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	31
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

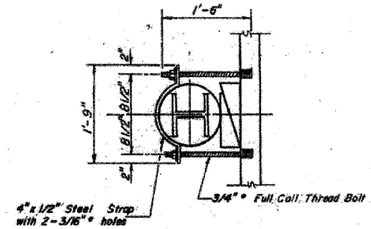
2656b024

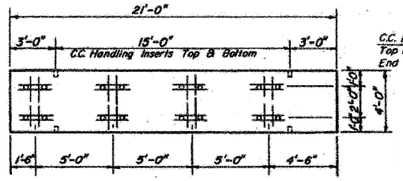


4 - W - 16
4 - Required

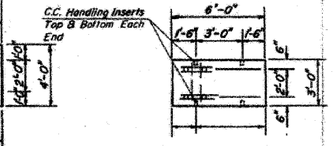


4 - W - 11
4 - Required

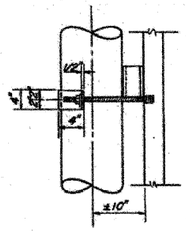




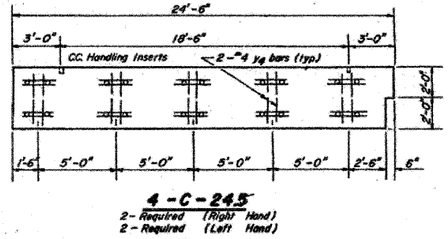
4 - W - 21
4 - Required



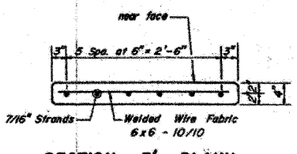
3 - W - 6
4 - Required



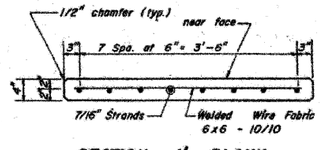
HANGING DETAIL



4 - C - 24.5
2 - Required (Right Hand)
2 - Required (Left Hand)



SECTION 3' PLANK
Shown in casting position



SECTION 4' PLANK
Shown in casting position

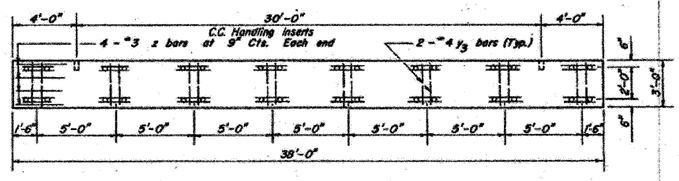
BILL OF MATERIAL
CONCRETE PLANK - 2 ABUTMENTS *

Bar	Number	Size	Length	Shape
y3	44	#4	2'-10"	
y4	220	#4	3'-10"	
z	88	#3	4'-8"	
Concrete			Cu. Yd.	29.6
Reinforcement Bars			Lbs.	900
7/16" Strands			Lbs.	1998
Welded Wire Fabric			Lbs.	494
3/4" Coil Hanger Frames			Each	248
3/4" Coil Loops (Handling Inserts)			Each	88
3/4" Full Coil Thread Bolt			Each	496
3/4" Cut Washers			Each	496
1/2"x4" Steel Straps			Each	248

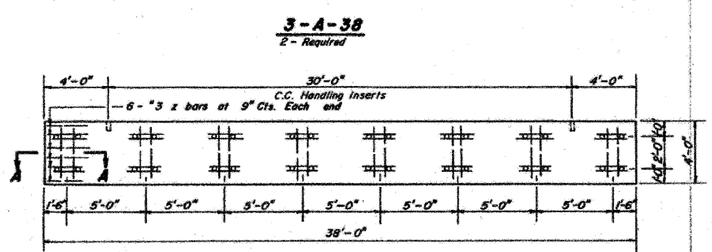
* This information for fabrication of Plank only. Payment for all items to be in the contract unit price per sq. ft. of Precast Prestressed Concrete Plank.

BILL OF CONCRETE PLANK

Mk.	No.	Width	Sq. Ft. Ea.	Total Sq. Ft.
4-A-38	6	4'	152	912
3-A-38	2	3'	114	228
4-C-24.5	4	4'	97	388
4-W-21	4	4'	84	336
4-W-16	4	4'	64	256
4-W-11	4	4'	44	176
3-W-6	4	3'	18	72
Total Sq. Ft.				2368



3 - A - 38
2 - Required



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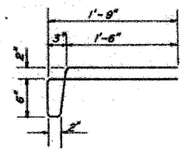
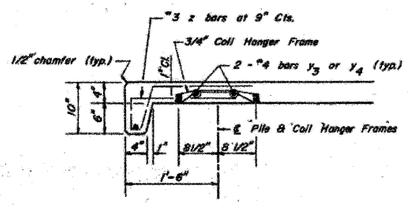


Z BAR



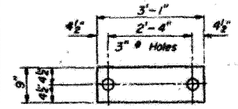
SECTION A-A

CONCRETE PLANK DETAIL
EGG BAG CREEK
SECTION 138-G
LASALLE COUNTY
STATION 44+70.00

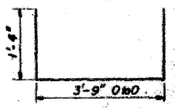
EXISTING STRUCTURE PLANS

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	32
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

2656b025



FABRIC BEARING PAD



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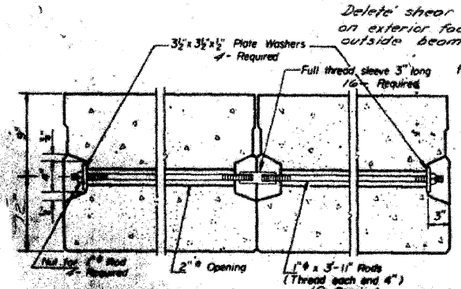
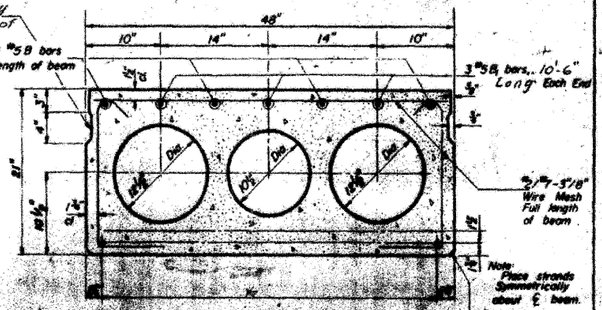
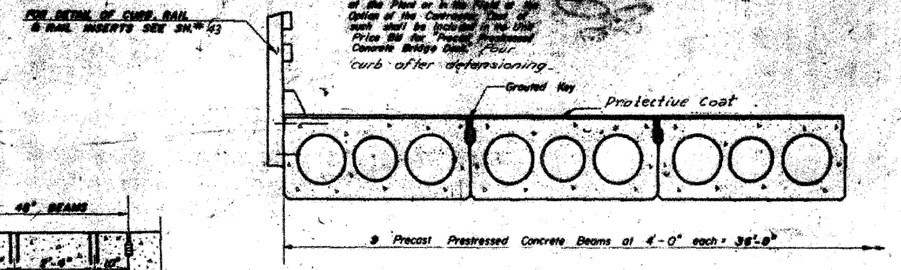


TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION



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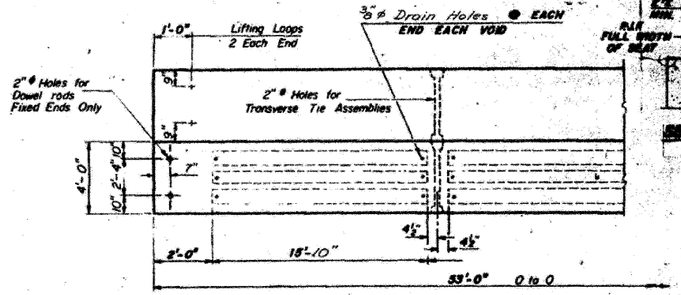
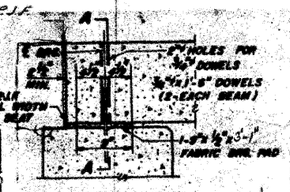
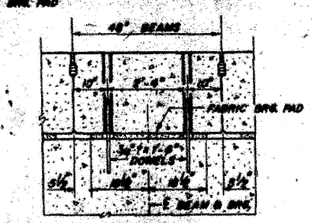


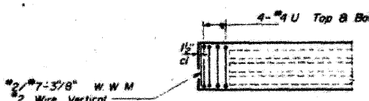
PLAN



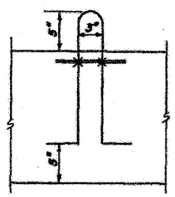
SEC. THRU ABUT. FIXED



SECTION A-A



END PLAN



LIFTING LOOP DETAIL

PD-2-S 11-19-65

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.109 sq. in.

LIFTING LOOPS SHALL BE MULTIPLE OF 3 ⅜" OR ½" STRANDS AT EACH POINT OF LIFTING.

The ⅝" ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 1:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.

Steel for dowel rods, transverse tie rods, shall be S.A.E. 1020, structural steel A.S.T.M. Designation A-306, Grade 70-80.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.

Cost of reinforcement and accessories cast into the beam, of bearing pads, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Bridge Deck."

AN ALTERNATE STRAND PATTERN USING EXTRA HIGH PRESTRESSING STRAND (270 KSI) IS PERMITTED.

BILL OF MATERIAL

PRECAST PRESTRESSED CONCRETE BRIDGE DECK	SQ.FT.	1908
Protective Coat	Sq.Yd.	216

DECK DETAIL
EGG BAG CREEK
SECTION 138-G
LASALLE COUNTY
STATION 44+70.00

EXISTING STRUCTURE PLANS

SHEET NO. 5	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5 SHEETS	CH 29	10-00649-00-BR	LASALLE	43	33
		S.N. 050-3593	CONTRACT NO. 87430		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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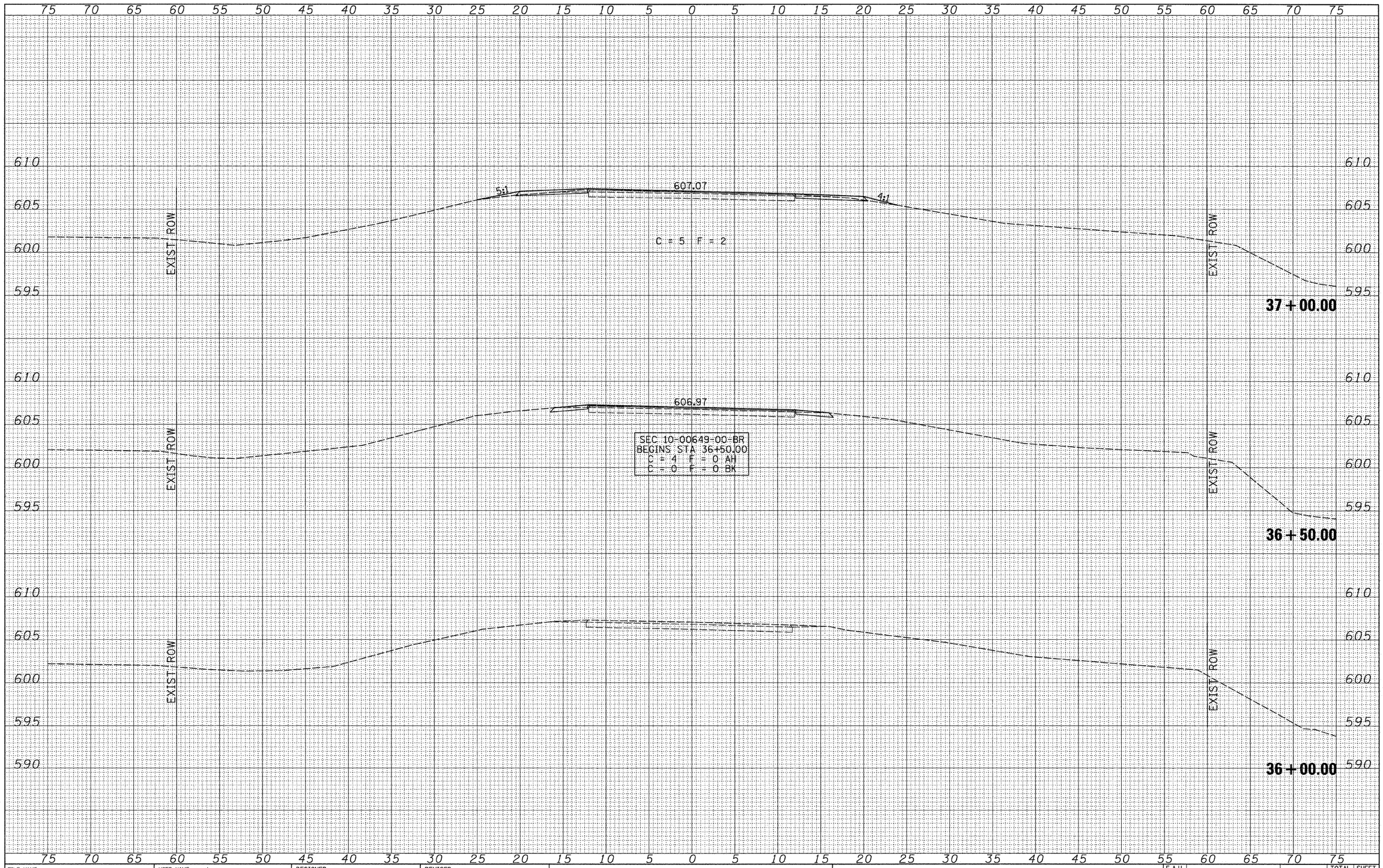
	ADJUSTED		
NOTE BOOK	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 1 OF 10 SHEETS | STA. 36+00.00 | TO STA. 37+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	34
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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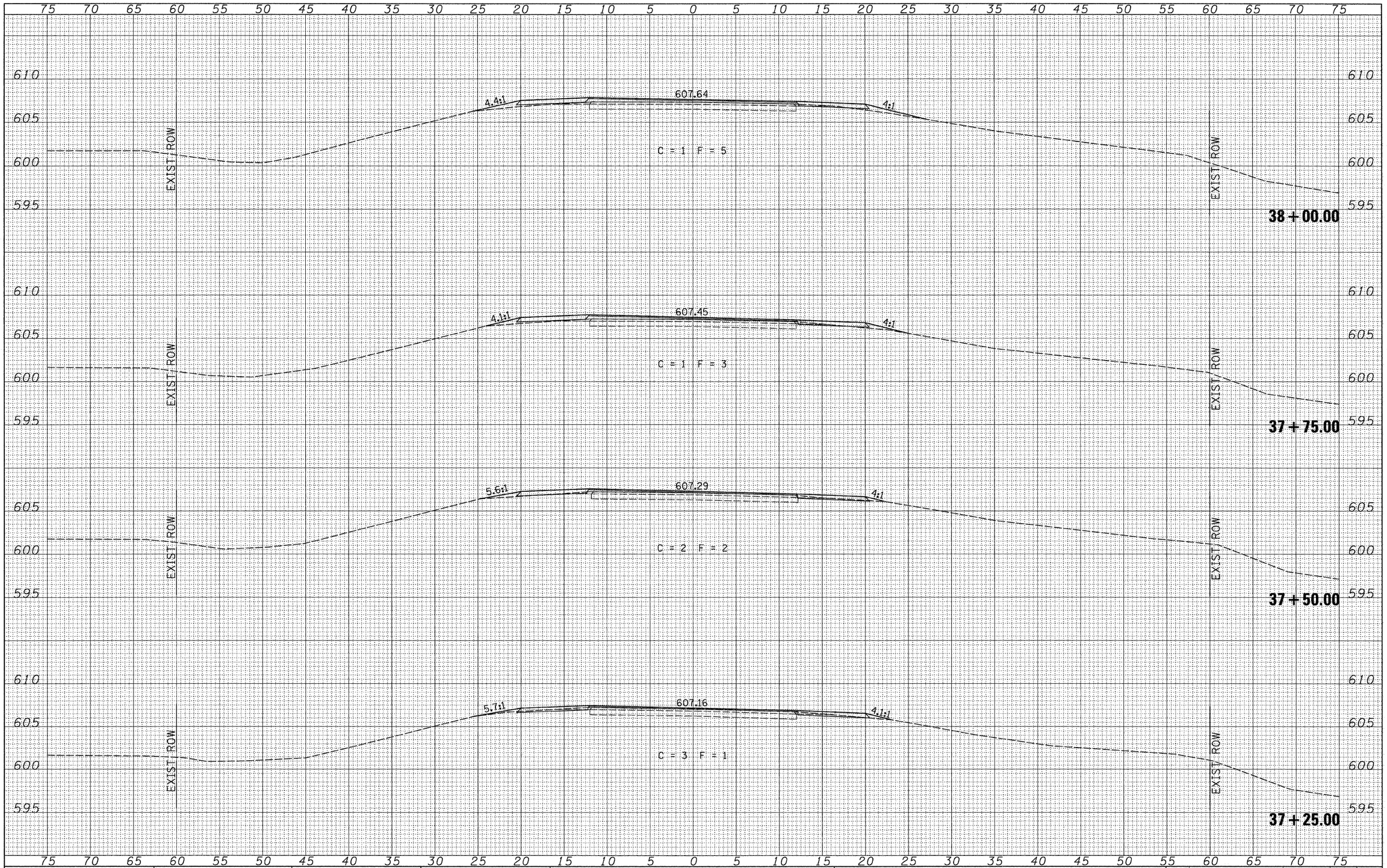
	AREAS CHECKED		



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NOTE BOOK	PLOTTED		
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NO.	AREAS		
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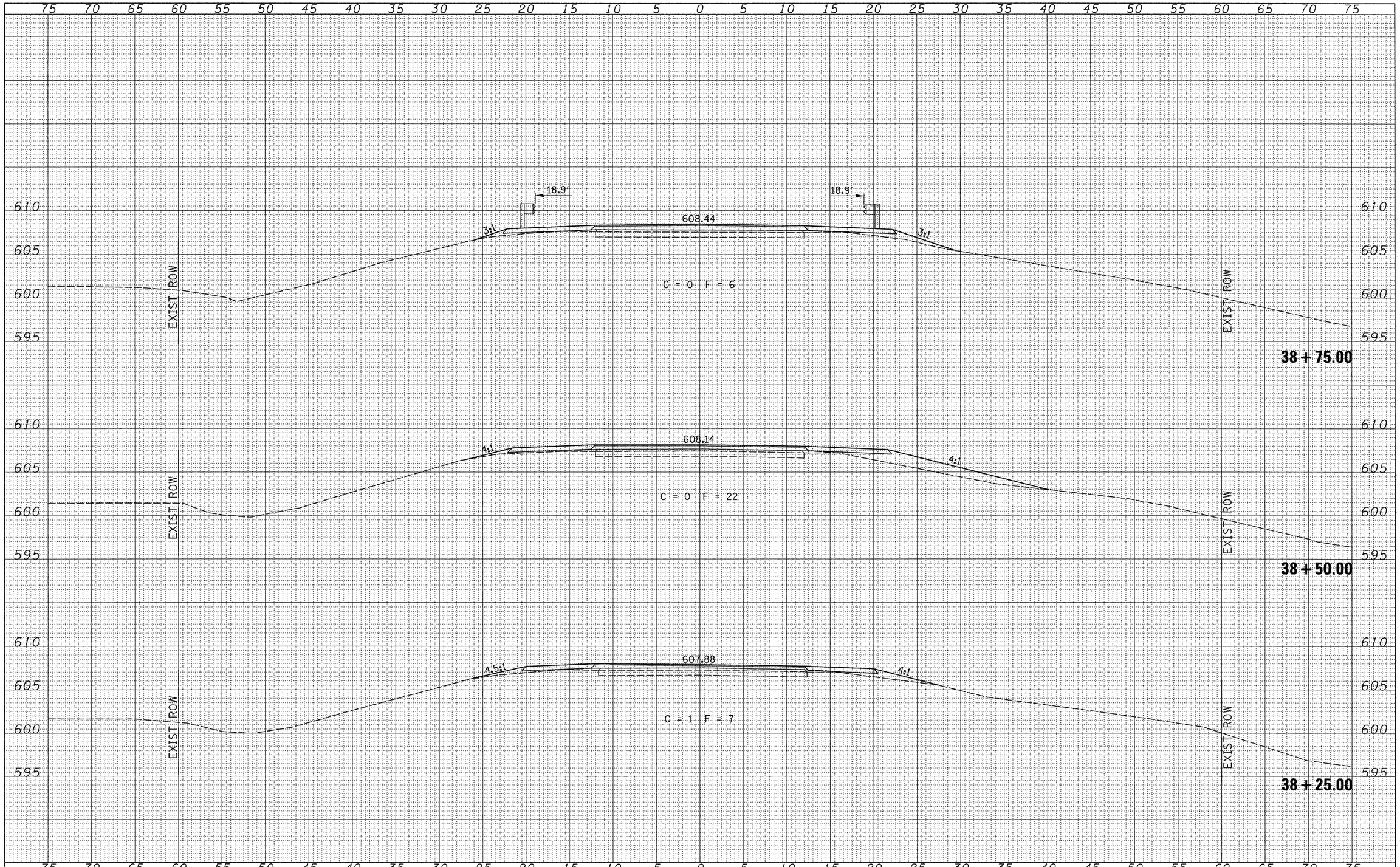
LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 2 OF 10 SHEETS | STA. 37+25.00 TO STA. 38+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	35
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE



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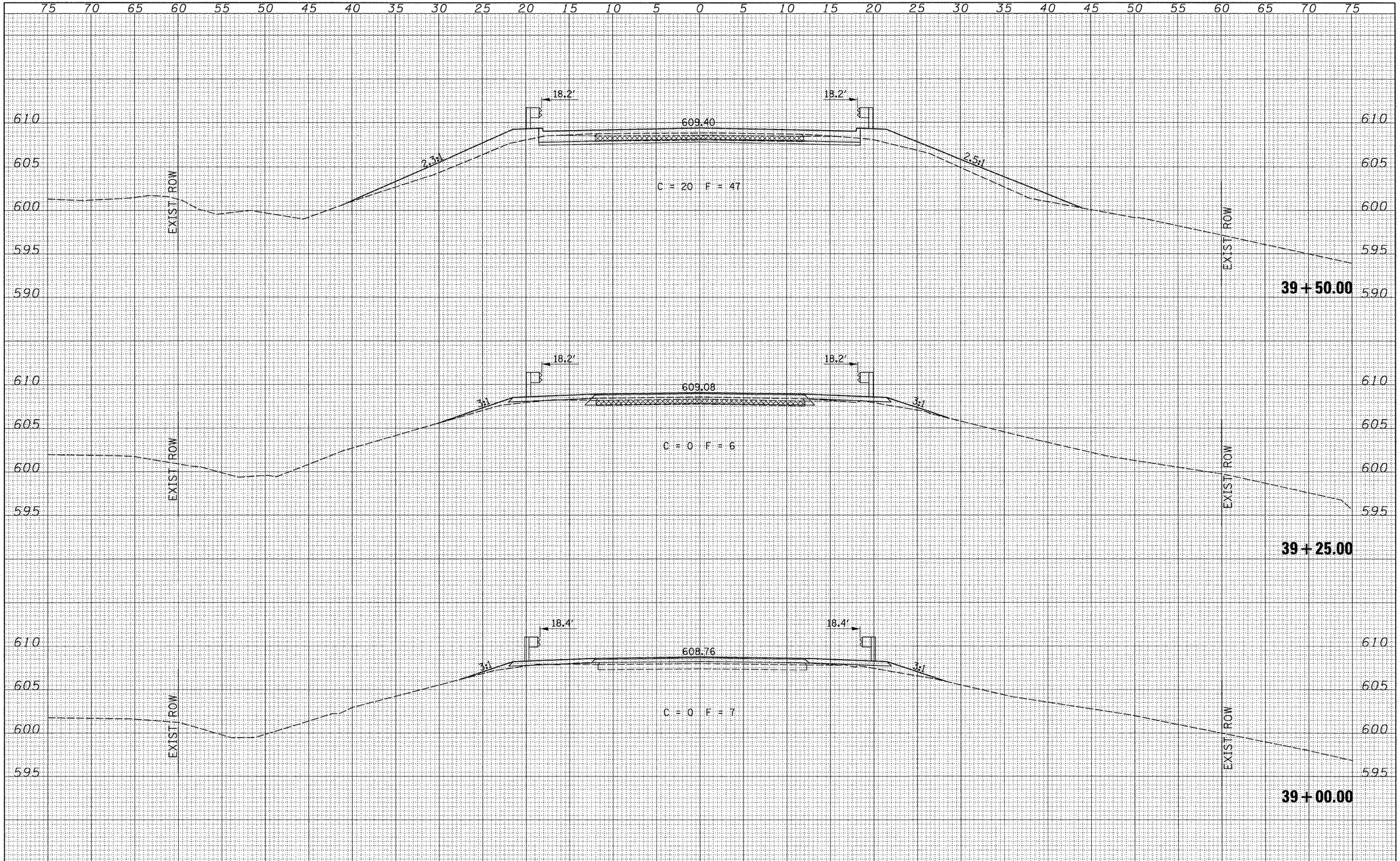
LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 3 OF 10 SHEETS | STA. 38+25.00 TO STA. 38+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	36
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		



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	AREAS		
	AREAS CHECKED		

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LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 4 OF 10 SHEETS | STA. 39+00.00 TO STA. 39+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	37
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

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NOTE BOOK	TEMPLATE		
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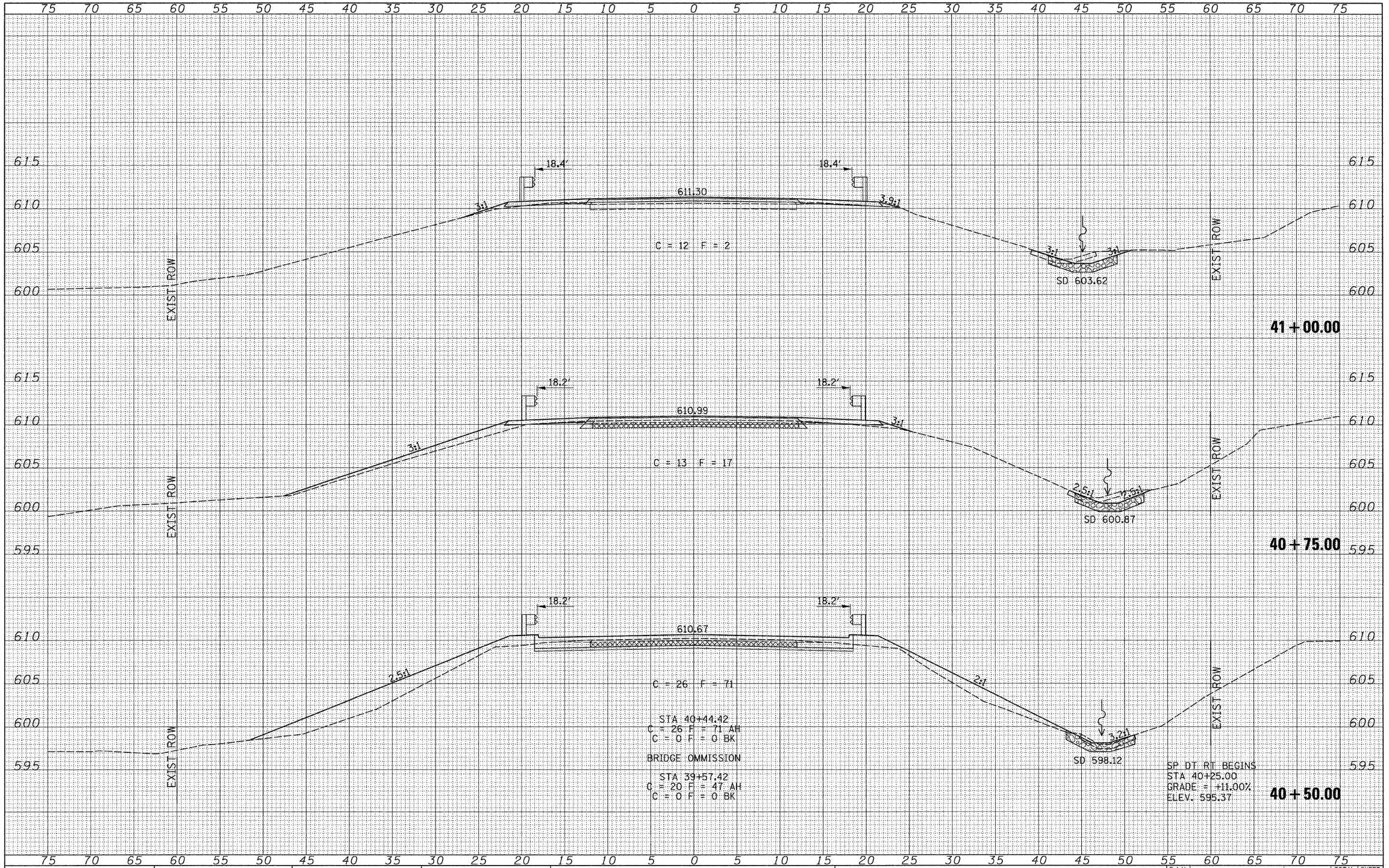

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NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 5 OF 10 SHEETS | STA. 40+50.00 TO STA. 41+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	38
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

615 610 605 600

EXIST. ROW

6.6:1

612.03

C = 8 F = 3

1%

EXIST. 42"x30" TBR

36" ESR CS/A
INV 608.27

EXIST. ROW

41 + 61.00
FE RT

615 610 605 600

EXIST. ROW

5.5:1

611.91

C = 7 F = 3

EXIST. 42"x30" TBR

36" ESR CS/A
INV 608.14

EXIST. ROW

SP DT LT BEGINS
STA 41+40.00
GRADE = +1.20%
ELEV = 608.02

SP DT LT ENDS
STA 41+40.00
GRADE = +11.00%
ELEV = 608.02

41 + 50.00

615 610 605 600

EXIST. ROW

18.9'

3:1

611.61

18.9'

3.8:1

C = 7 F = 3

3:1

3:1

SD 606.37

EXIST. ROW

41 + 25.00

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

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LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 6 OF 10 SHEETS | STA. 41+25.00 | TO STA. 41+61.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	39
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
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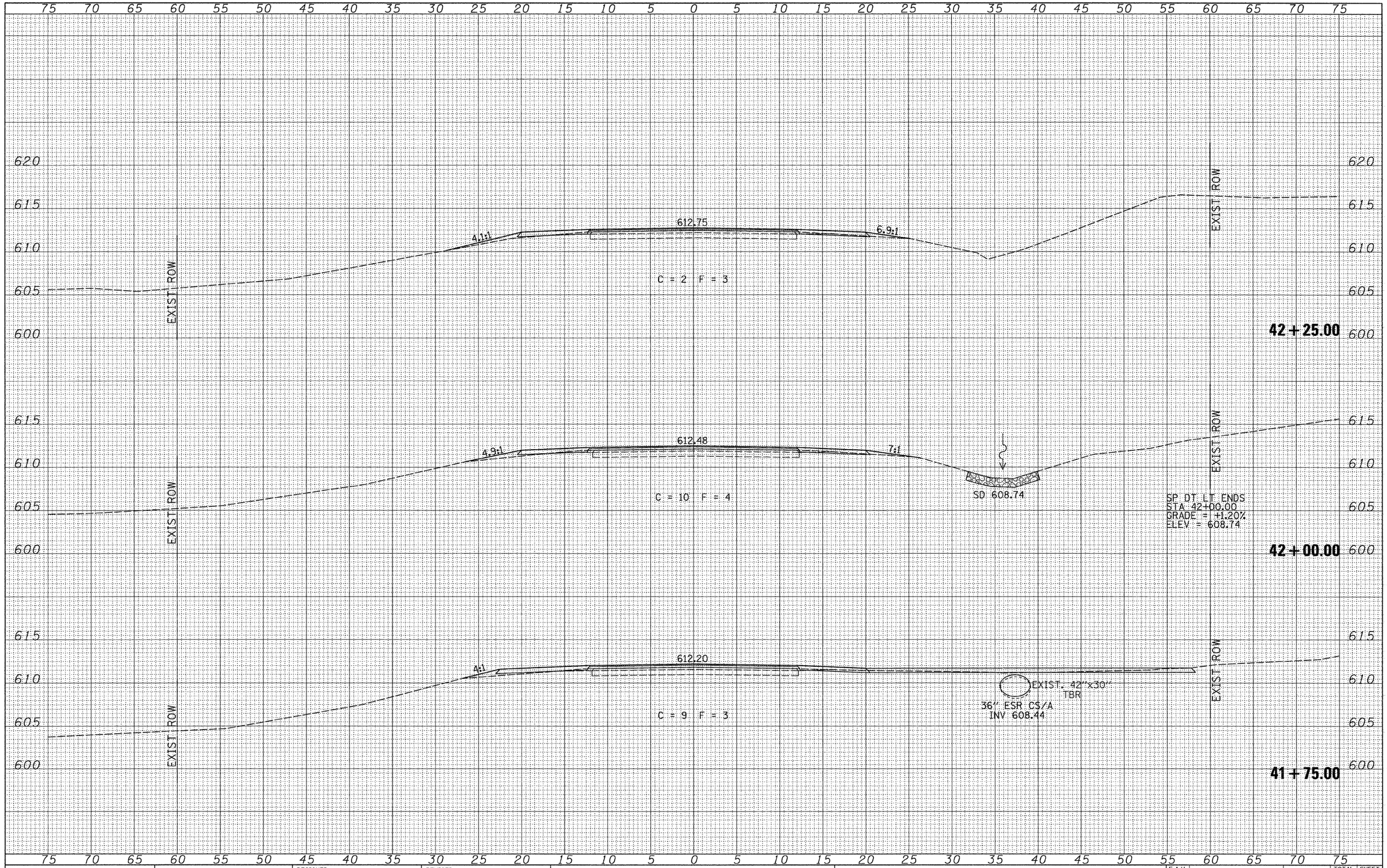
	AREAS		
	AREAS CHECKED		



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LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

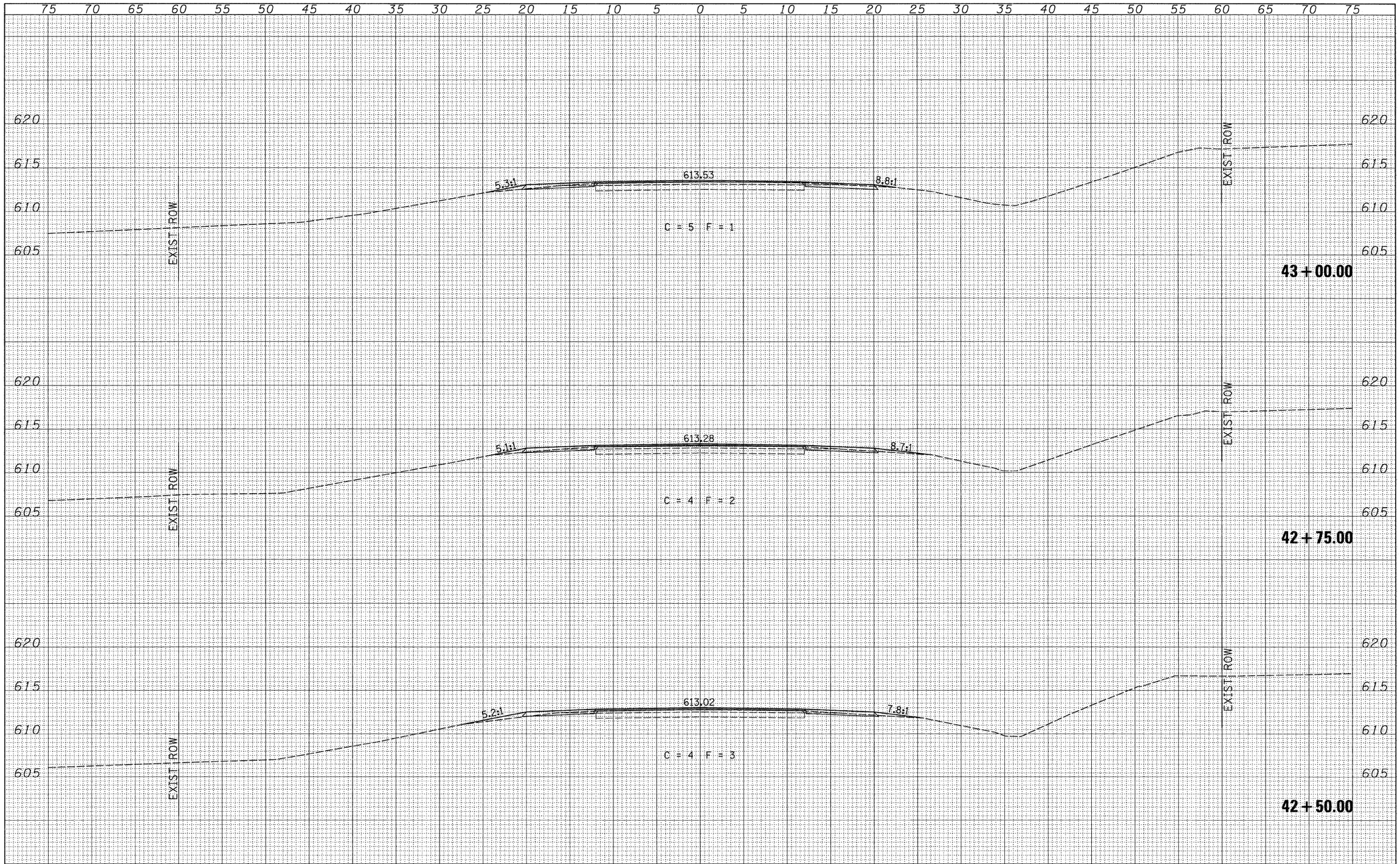
CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 7 OF 10 SHEETS | STA. 41+75.00 | TO STA. 42+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	40
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



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	PLOT DATE = 10/1/2009	DATE -	REVISED -

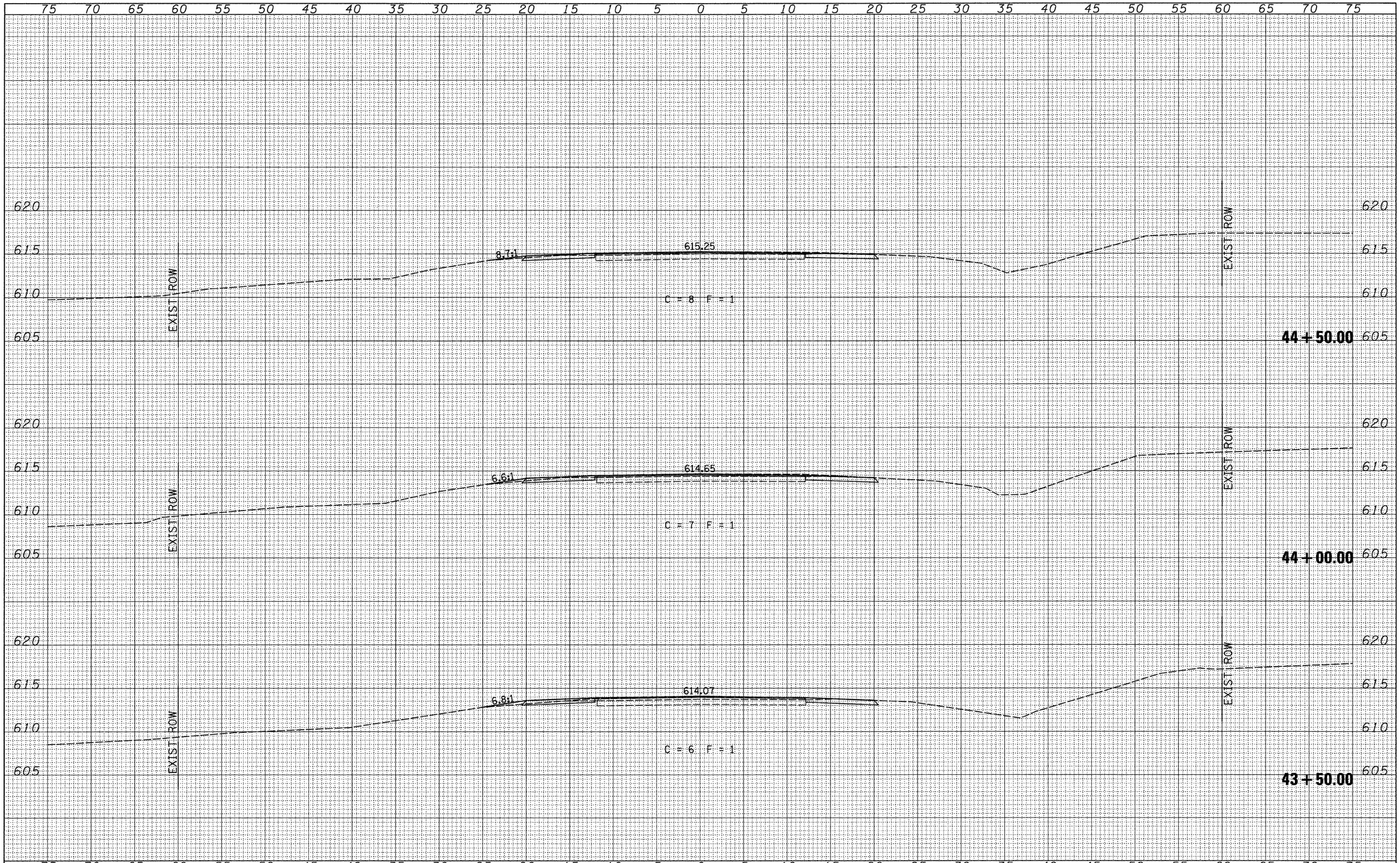
LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 8 OF 10 SHEETS | STA. 42+50.00 TO STA. 43+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	41
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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	PLOT DATE = 10/1/2009	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 9 OF 10 SHEETS | STA. 43+50.00 TO STA. 44+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	42
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

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620
615
610

EXIST. ROW

SEC 10-00649-00-BR
ENDS STA 45+00.00
C = 0 F = 0 AH
C = 4 F = 0 BK

8:1

615.89

45+50.00

45+00.00

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	PLOT DATE = 10/1/2009	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 29 OVER
EGG BAG CREEK

CROSS SECTIONS

SCALE: 1" = 5'-0" | SHEET NO. 10 OF 10 SHEETS | STA. 45+00.00 TO STA. 45+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6141	10-00649-00-BR	LASALLE	43	43
		CONTRACT NO. 87430		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0099(043)		