

1-17-14 LETTING ITEM 122

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UTILITY COMPANIES

CommED
JOLIET, ILLINOIS

NICOR GAS
NAPERVILLE, ILLINOIS

MEDIACOM
ELBURN, ILLINOIS

FRONTIER
BLOOMINGTON, ILLINOIS

MARSEILLES TELEPHONE
METAMORA, ILLINOIS

INVENERGY
MARSEILLES, ILLINOIS

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

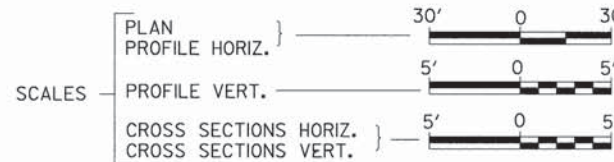
CONTRACT NO. 87558

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM - BRIDGE
LASALLE COUNTY
SECTION 14-00728-00-BR
F.A.S. 268 (CH 15) OVER COVEL CREEK
PROJECT NO. BRS-0268(113)
JOB NUMBER C-93-063-13

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87558	

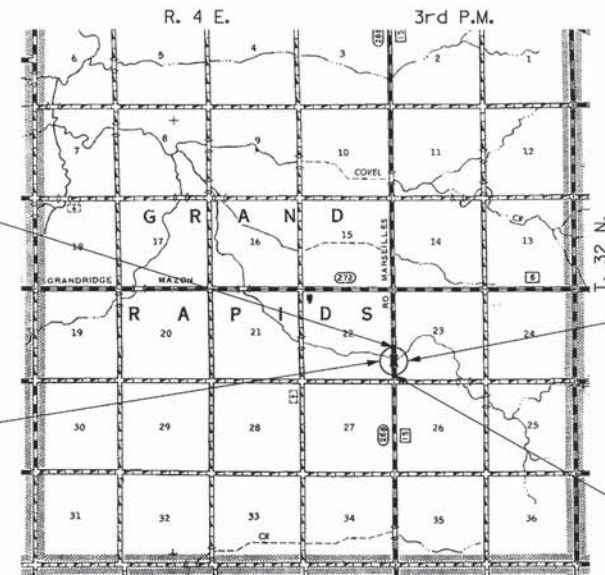


PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

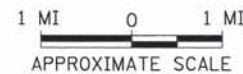


SECTION 14-00728-00-BR
ENDS
STATION 23+75.00

PROPOSED STRUCTURE NO. 050-3610
SINGLE SPAN 42" P.P.C. I-BEAM WITH
CONCRETE DECK SUPERSTRUCTURE
ON CONC. INTEGRAL ABUTMENTS,
70'-0" BK. TO BK. AND 31'-0" O. TO O.,
NO SKEW.



LOCATION MAP



NET LENGTH OF PROJECT = 600.00 FEET = 0.114 MILES
DESIGN CLASSIFICATION: MAJOR-COLLECTOR (NON-URBAN)
DESIGN ADT = 1130 (2034)
DESIGN SPEED = 50 MPH

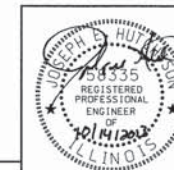
EXISTING STRUCTURE 050-3024
SINGLE SPAN PRECAST NELSON BEAM BRIDGE
ON TIMBER PILE CLOSED ABUTMENTS WITH
REINFORCED CONCRETE CAPS
33'-9" BK. TO BK., AND 26'-3" O. TO O.,
NO SKEW (TO BE REMOVED)

SECTION 14-00728-00-BR
BEGINS
STATION 17+75.00

Hutchison Engineering, Inc.
JACKSONVILLE-SHOREWOOD-PEORIA

2013

JOB#3328



Lic Exp 11/30/2013
SIGNATURE

ENGINEER'S SEAL

PLANS DESIGNED IN ACCORDANCE WITH BUREAU
OF LOCAL ROADS AND STREETS MANUAL GUIDELINES
FOR TWO LANE RURAL COLLECTORS - RECONSTRUCTION

APPROVED October 16, 2013 2013

James J. King
LASALLE COUNTY ENGINEER

PASSED Oct 30 2013

David R. E.
DISTRICT THREE ENGINEER OF
LOCAL ROADS & STREETS

Released For
Bld Based on
Limited Review Oct 30 2013

Paul D. Coetzee
DEPUTY DIRECTOR OF HIGHWAYS,
REGION TWO ENGINEER

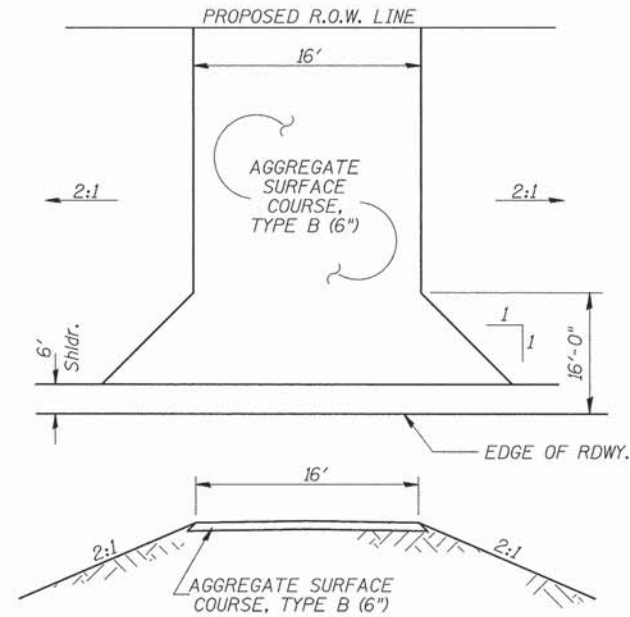
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

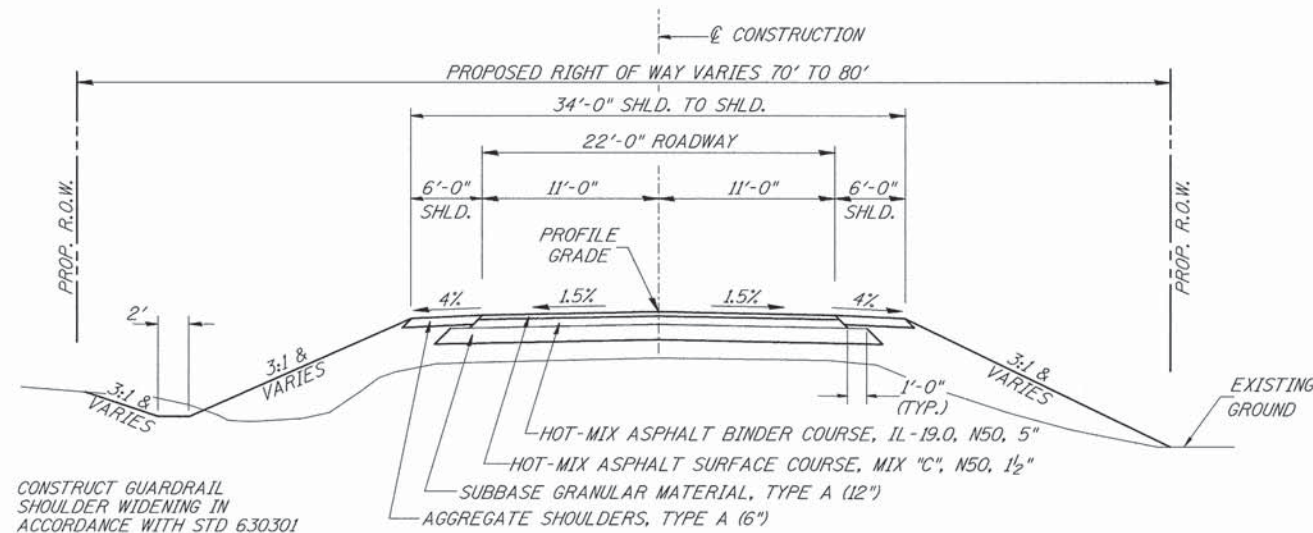
	HMA BINDER	HMA SURFACE
PG GRADE	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL-19.0	IL-9.5
FRICTION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	CORES	CORES

**STRUCTURAL DESIGN INFORMATION
COUNTY HIGHWAY 15**

ROAD CLASSIFICATION: CLASS III 80,000 lb./20 YEAR DESIGN
STRUCTURAL DESIGN TRAFFIC:
PV = 942 SU = 75 MU = 54
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 88% S = 7% M = 5%
MINIMUM SUBGRADE SUPPORT RATING: FAIR
FLEXIBLE PAVEMENT DESIGN: MINIMUM TF = 0.29
ASPHALT PAVEMENT THICKNESS: 6 1/2"
SUB-BASE GRANULAR MATERIAL, TYPE A: 12"



**PROPOSED FIELD ENTRANCE
STA 22+19 LT**



PROPOSED TYPICAL SECTION

STA. 17+75.00 TO STA. 19+31.00
STA. 20+69.00 TO STA. 23+75.00
EXCEPT TRANSITIONS

BRIDGE APPROACH PAVEMENT CONNECTOR
STA. 19+31.00 TO STA. 19+36.00
STA. 20+64.00 TO STA. 20+69.00

BRIDGE APPROACH PAVEMENT
STA. 19+36.00 TO STA. 19+66.00
STA. 20+34.00 TO STA. 20+64.00

BRIDGE OMISSION
STA. 19+66.00 TO STA. 20+34.00

CONSTRUCT GUARDRAIL
SHOULDER WIDENING IN
ACCORDANCE WITH STD 630301

GENERAL NOTES

THE REMOVAL OF EXISTING ASPHALT SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

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

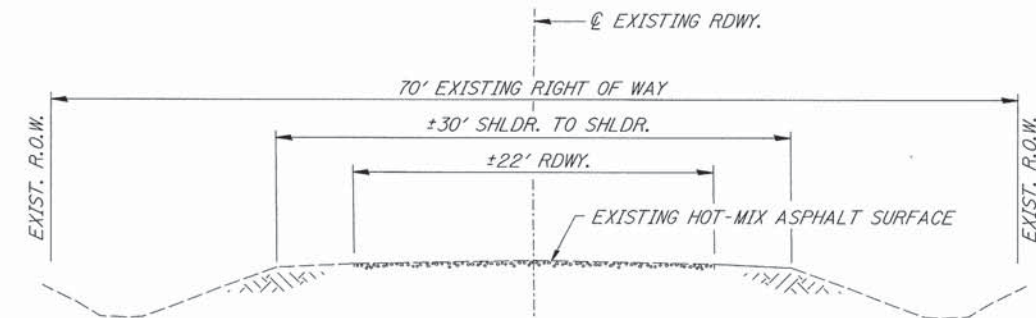
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES 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.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

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



EXISTING TYPICAL SECTION

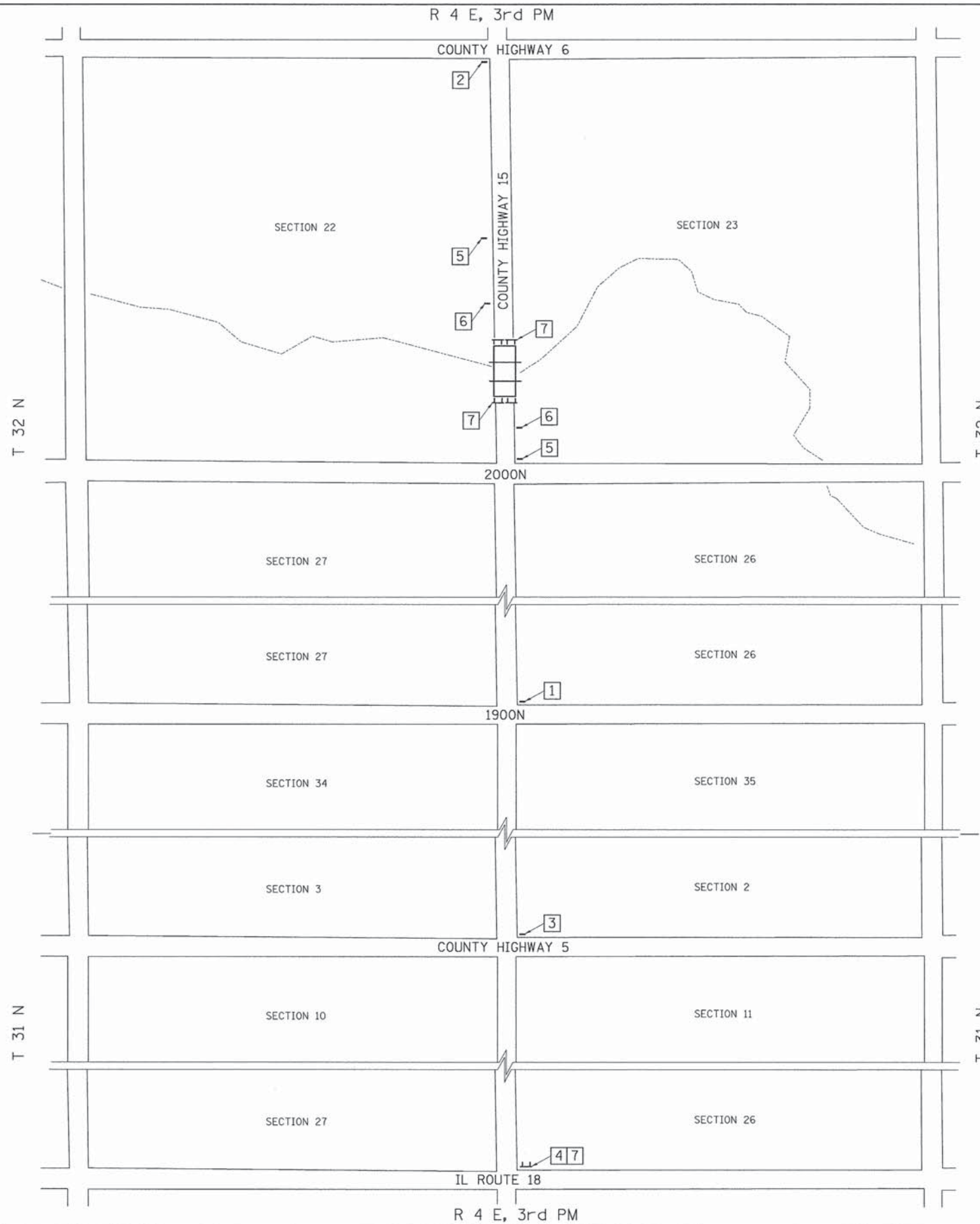
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		DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 15
OVER COVEL CREEK**

GENERAL NOTES, DETAILS, TYPICAL SECTIONS

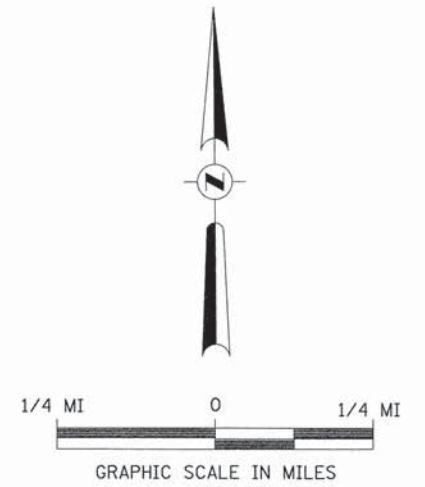
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 17+75.00 TO STA. 23+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	2
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)	



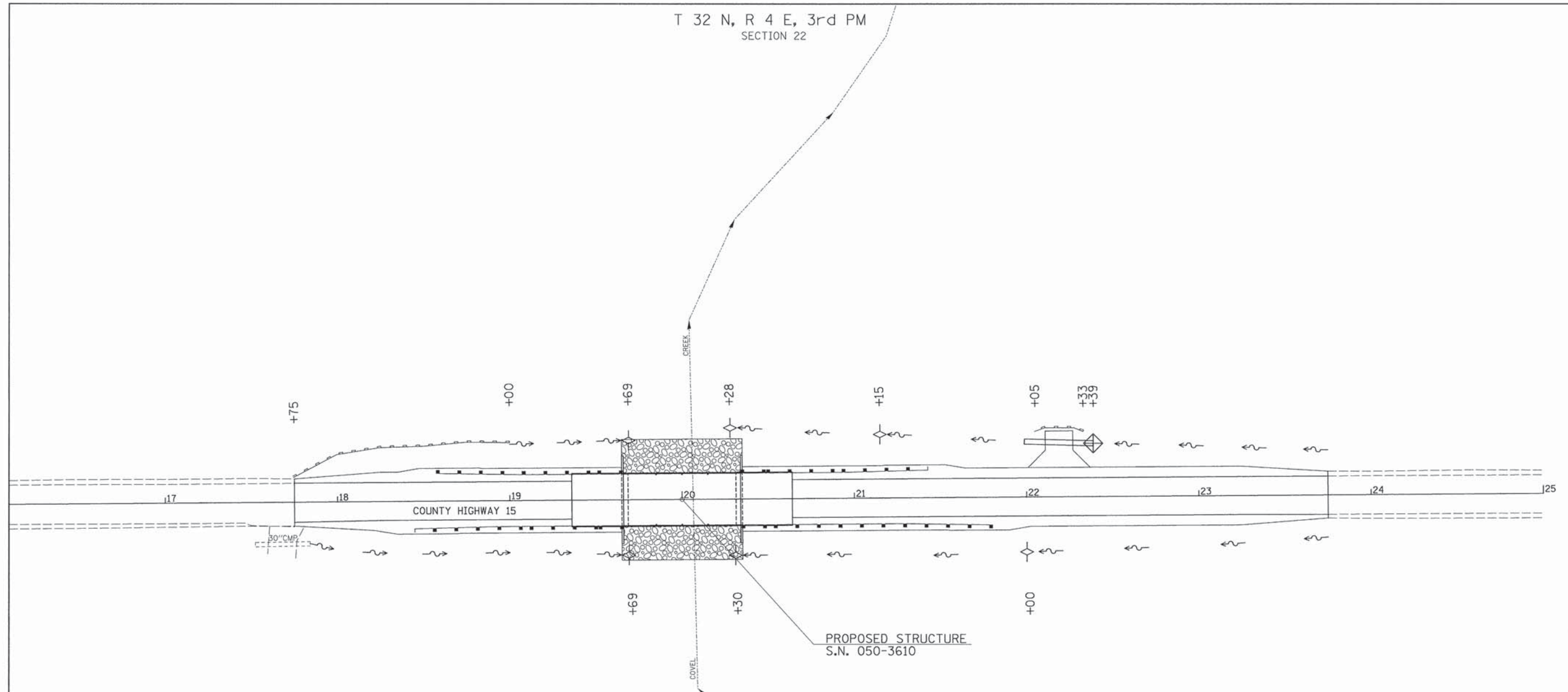
- | | |
|---|---|
| <p>1 ROAD CLOSED
1 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3</p> | <p>ROAD CLOSED
1 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY</p> |
|---|---|
- | | |
|--|--|
| <p>2 ROAD CLOSED
3/4 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3</p> | <p>ROAD CLOSED
3/4 MILE AHEAD
LOCAL TRAFFIC ONLY</p> |
|--|--|
- | | |
|---|---|
| <p>3 ROAD CLOSED
3 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3</p> | <p>ROAD CLOSED
3 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY</p> |
|---|---|
- | | |
|---|---|
| <p>4 ROAD CLOSED
7 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3</p> | <p>ROAD CLOSED
7 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY</p> |
|---|---|
- | | |
|---------------------------------------|--------------------------|
| <p>5 ROAD CLOSED AHEAD
W20-3</p> | <p>ROAD CLOSED AHEAD</p> |
|---------------------------------------|--------------------------|
- | | |
|--|---------------------------|
| <p>6 ROAD CLOSED 500 FT
W20-3</p> | <p>ROAD CLOSED 500 FT</p> |
|--|---------------------------|
- | | |
|-------------------------------|----------------------------|
| <p>7 TYPE III BARRICADES</p> | <p>TYPE III BARRICADES</p> |
|-------------------------------|----------------------------|

SEE STANDARDS BLR 21 & BLR 22 AND SPECIAL PROVISIONS



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PLOT SCALE = 1:8000' / in.	CHECKED -	REVISIED -	REVISIED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 17+75.00	TO STA. 23+75.00	FED. ROAD DIST. NO. 7 ILLINOIS	FED. AID PROJECT BRS-0268(1)3	CONTRACT NO. 87558
PLOT DATE = 10/9/2013	DATE -	REVISIED -	REVISIED -							






T 32 N, R 4 E, 3rd PM
SECTION 22

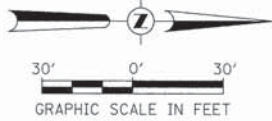


PROPOSED STRUCTURE
S.N. 050-3610

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 AND PIPE PROTECTION
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  PROPOSED RIPRAP



T 32 N, R 4 E, 3rd PM
SECTION 23

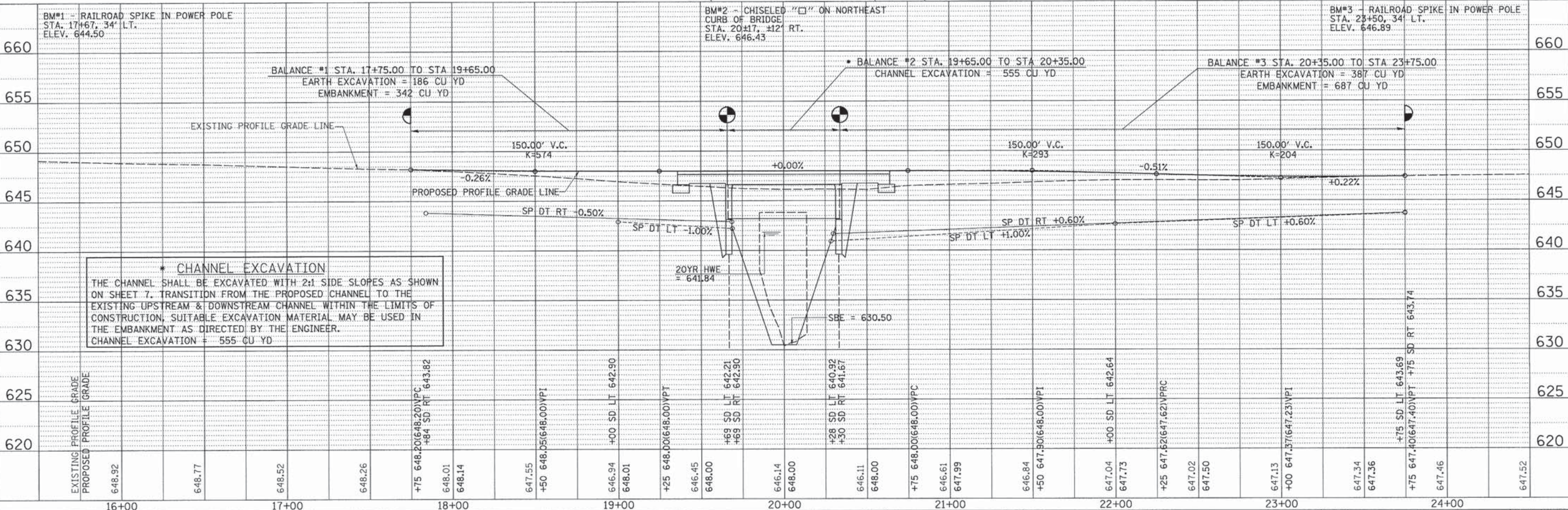
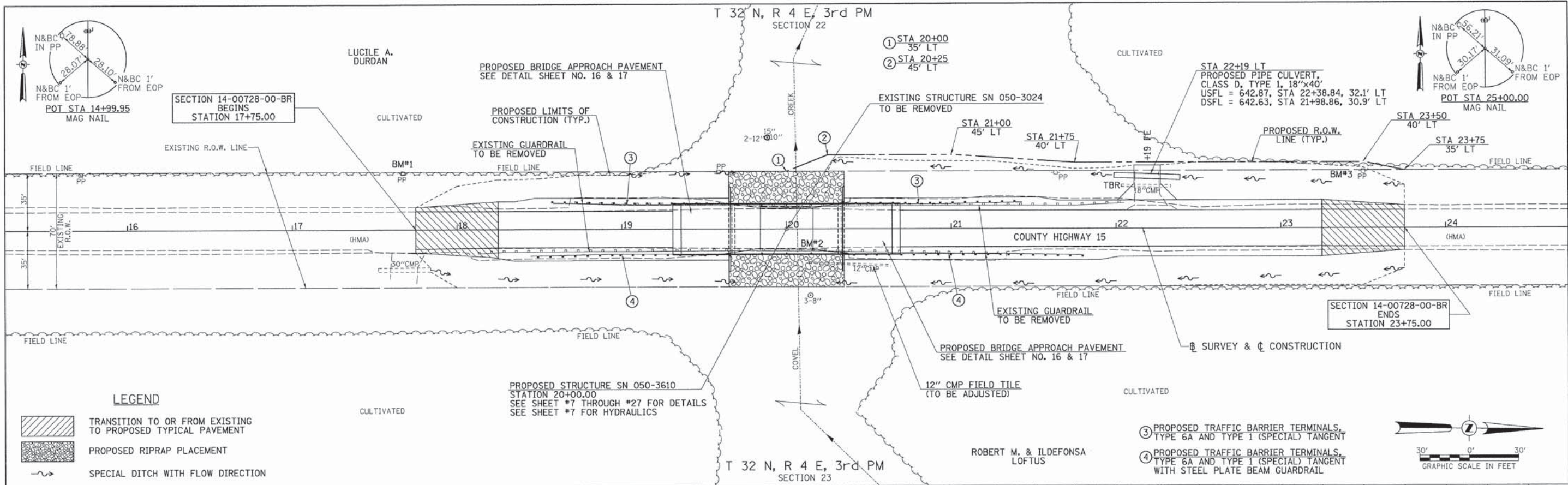
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	PLOT DATE = 10/9/2013	DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 15
OVER COVELL CREEK**

EROSION CONTROL PLAN

SCALE: 1" = 30' SHEET NO. 1 OF 1 SHEETS STA. 17+75.00 TO STA. 23+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	5
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BR5-0268(113)	



DATE	
BY	
PLANNED	
DESIGNED	
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DATE	
BY	
PLANNED	
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DRAWN	
CHECKED	
DATE	

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		CHECKED -	REVISED -
		DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 15
OVER COVELL CREEK**

PLAN AND PROFILE
SCALE: 1"=30'
SHEET NO. 1 OF 1 SHEETS
STA. 17+75.00 TO STA. 23+75.00

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	6
CONTRACT NO. 87558				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-02680131	

B.M.: RR Spike in Power Pole Sta. 17+67.34' Lt. Elev. 644.50
 RR Spike in Power Pole Sta. 23+50.34' Lt. Elev. 646.89

Existing Structure:
 Single span precast channel beam bridge on timber pile closed abutments with reinforced concrete caps. The structure is 33'-9" back to back of abutments, 26'-3" out to out deck, and is not skewed. Str. No. 050-3024

Salvage: None

Road to be closed to traffic during construction.

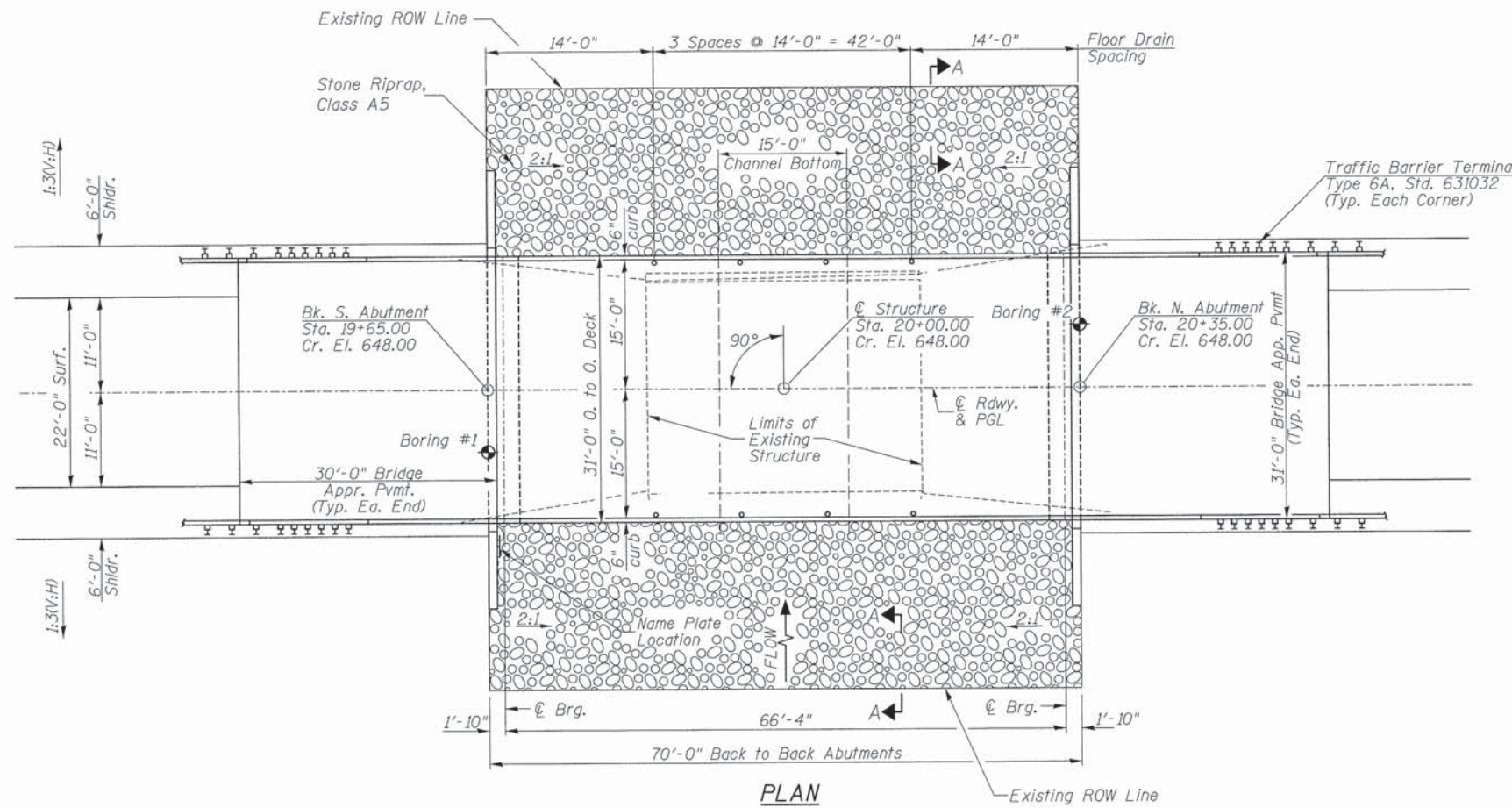
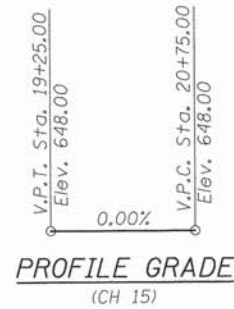
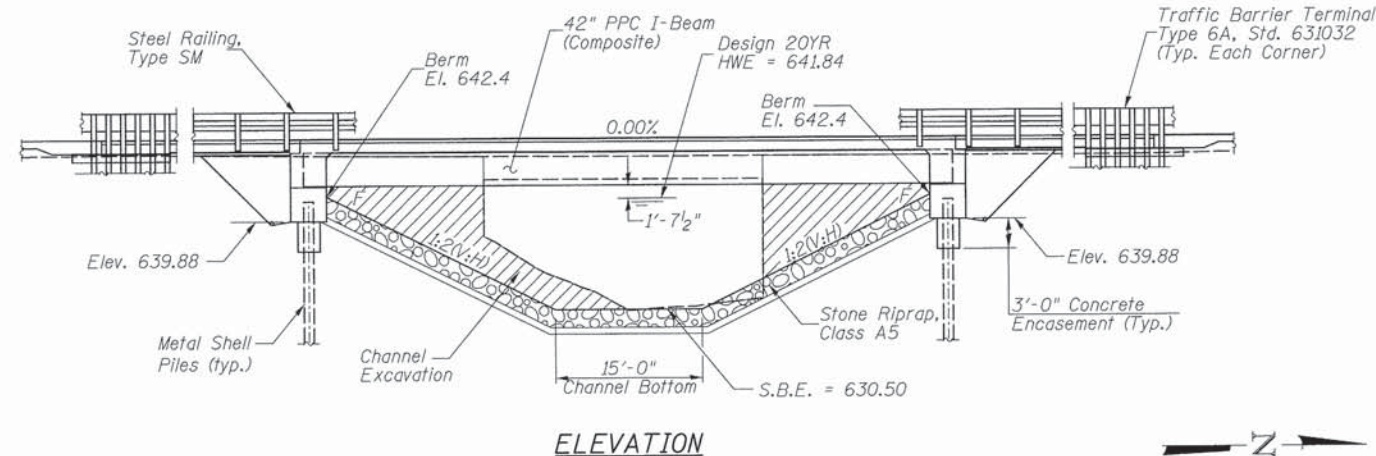
NOTE:
 See Sheet 2 of 21 for Bill of Material, General Notes and Section A-A.

SHEET #'s	DESCRIPTION
1	General Plan & Elevation
2	Bill of Materials, Details and General Notes
3-4	Top of Slab Elevations
5-6	Top of Approach Slab Elevations
7	Superstructure
8	Superstructure Details
9	Diaphragm Details
10-11	Bridge Approach Slab Details
12	Steel Railing Type SM
13	Framing Plan and Details
14	42" PPC I-Beam
15	42" PPC I-Beam Details
16	Abutments
17	Metal Shell Pile Details
18-21	Soil Boring Logs

**COVEL CREEK
 BUILT 2011 BY
 LASALLE COUNTY
 SEC. 14-00728-00-BR
 C.H. 15 STATION 20+00.00
 F.A. PROJ. BRS-0268(113)
 STR. NO. 050-3610 LOADING HL-93**

NAME PLATE

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



DESIGN SCOUR TABLE

Location	S. Abut.	N. Abut.
Design Scour Elevation	639.88	639.88

WATERWAY INFORMATION

Drainage Area = 4.84 Sq. Mi.		Low Grade Elev. = 647.35 @ Sta. 23+29.63		Nat.		Head - Ft.		Headwater El.	
Flood Yr.	Freq.	C.F.S.	Opening Sq. Ft.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	20	1,565	265	428	641.84	0.13	0.00	641.97	641.84
Base	100	2,350	304	513	643.21	0.34	0.00	643.55	643.21

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications
 6th Edition with 2013 Interims

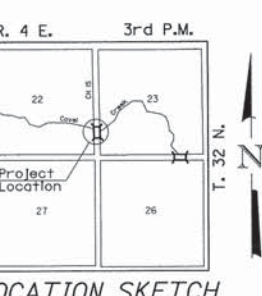
DESIGN STRESSES

(FIELD UNITS)
 $f'_c = 5,000$ p.s.i. (superstructure)
 $f'_c = 3,500$ p.s.i. (substructure)
 $f_y = 60,000$ p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS)
 $f'_c = 6,000$ p.s.i.
 $f'_{ci} = 5,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " Strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " Strands)

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{d1}) = 0.10g
 Design Spectral Acceleration at 0.2 sec. (S_{d5}) = 0.18g
 Soil Site Class = D



GENERAL PLAN & ELEVATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 15	14-00728-00-BR	LASALLE	37	7
S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)		

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. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

M. A. N. 10/11/2013
 Illinois Structural No. 6527
 Expires 11/30/2014

BENJAMIN A. NEER
 081-006527
 LICENSED
 STRUCTURAL
 ENGINEER
 OF
 JACKSONVILLE
 ILLINOIS
 10/11/2013
 Lic. Exp. 11/30/2014

GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Reinforcement bars designated (E) shall be epoxy coated.

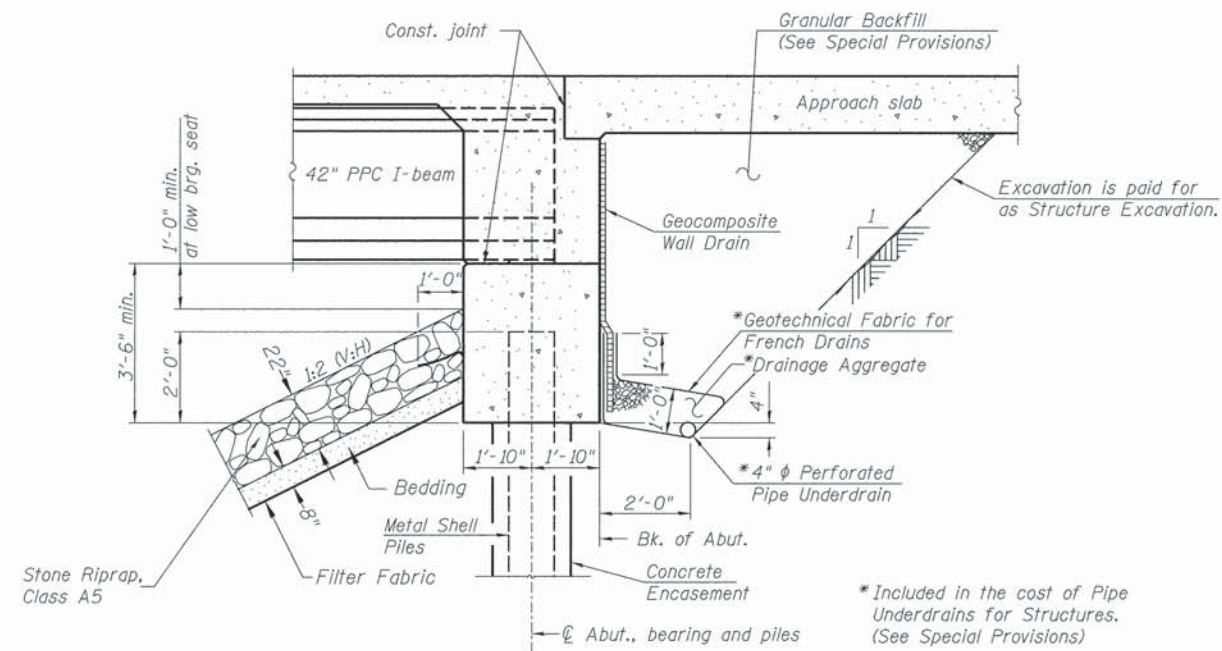
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the engineer.

Protective Coat shall be applied to the top of the deck, approach pavement, and face and top of curbs.

Bridge Deck Grooving is figured 1'-0" from curb face and includes the approach pavements.

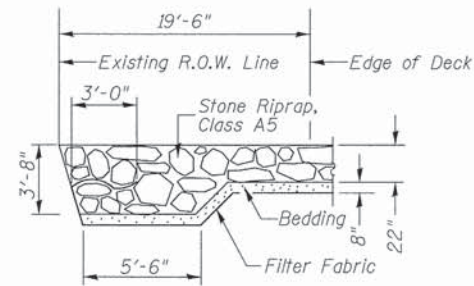
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

For Soil Boring Logs, See Sheets 18 thru 21 of 21.



SECTION THRU INTEGRAL ABUTMENT

Note:
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 A-A

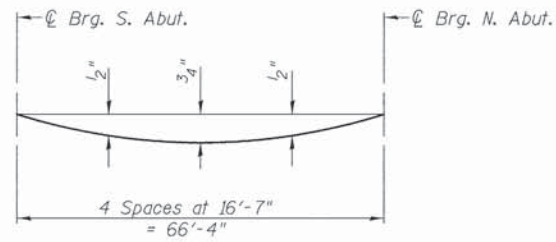
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	555	555
① Granular Backfill For Structures	CU YD	—	120	120
Stone Riprap, Class A5	SQ YD	—	565	565
Filter Fabric	SQ YD	—	565	565
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	165	165
Concrete Structures	CU YD	—	56.8	56.8
Concrete Superstructure	CU YD	180.0	—	180.0
Bridge Deck Grooving	SQ YD	398	—	398
Protective Coat	SQ YD	450	—	450
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	FOOT	337	—	337
① Reinforcement Bars, Epoxy Coated	POUND	42,800	5,630	48,430
Steel Railing, Type SM	FOOT	196	—	196
Furnishing Metal Shell Piles 14"x0.250"	FOOT	—	376	376
Driving Piles	FOOT	—	376	376
Test Pile Metal Shells	EACH	—	2	2
Concrete Encasement	CU YD	—	4.3	4.3
Name Plates	EACH	—	1	1
Geocomposite Wall Drain	SQ YD	—	60	60
① Pipe Underdrains for Structures, 4"	FOOT	—	118	118
Floor Drains	EACH	8	—	8

① See Special Provisions

BILL OF MATERIALS, DETAILS AND GENERAL NOTES

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	CH 15	14-00728-00-BR	LASALLE	37	8
S.N. 050-3610			CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		

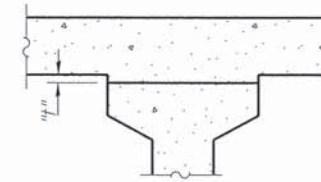


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

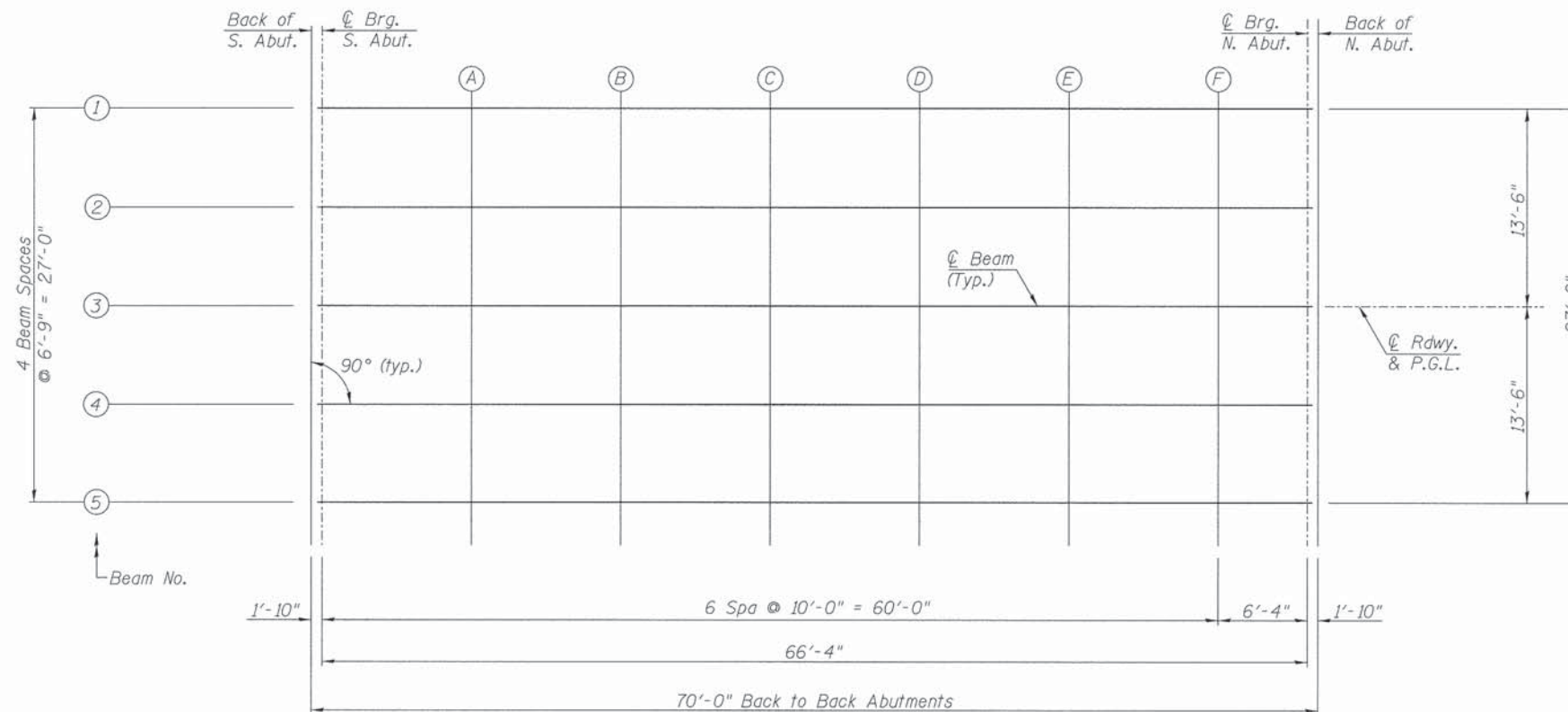
Note:

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 on Sheet 4 of 21.



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 Deflection" shown on Sheet 4 of 21, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

TOP OF SLAB ELEVATIONS

SHEET NO. 3 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	9
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0268(113)		

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	19+65.00	-13.50	647.78	647.78
CL Brg. S. Abut.	19+66.83	-13.50	647.78	647.78
A	19+76.83	-13.50	647.78	647.81
B	19+86.83	-13.50	647.78	647.83
C	19+96.83	-13.50	647.78	647.84
D	20+06.83	-13.50	647.78	647.84
E	20+16.83	-13.50	647.78	647.82
F	20+26.83	-13.50	647.78	647.79
CL Brg. N. Abut.	20+33.17	-13.50	647.78	647.78
Bk. N. Abutment	20+35.00	-13.50	647.78	647.78

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	19+65.00	-6.75	647.89	647.89
CL Brg. S. Abut.	19+66.83	-6.75	647.89	647.89
A	19+76.83	-6.75	647.89	647.92
B	19+86.83	-6.75	647.89	647.95
C	19+96.83	-6.75	647.89	647.96
D	20+06.83	-6.75	647.89	647.95
E	20+16.83	-6.75	647.89	647.94
F	20+26.83	-6.75	647.89	647.91
CL Brg. N. Abut.	20+33.17	-6.75	647.89	647.89
Bk. N. Abutment	20+35.00	-6.75	647.89	647.89

ROADWAY, PROFILE GRADE, & BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	19+65.00	0.00	648.00	648.00
CL Brg. S. Abut.	19+66.83	0.00	648.00	648.00
A	19+76.83	0.00	648.00	648.03
B	19+86.83	0.00	648.00	648.05
C	19+96.83	0.00	648.00	648.06
D	20+06.83	0.00	648.00	648.06
E	20+16.83	0.00	648.00	648.04
F	20+26.83	0.00	648.00	648.02
CL Brg. N. Abut.	20+33.17	0.00	648.00	648.00
Bk. N. Abutment	20+35.00	0.00	648.00	648.00

BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	19+65.00	6.75	647.89	647.89
CL Brg. S. Abut.	19+66.83	6.75	647.89	647.89
A	19+76.83	6.75	647.89	647.92
B	19+86.83	6.75	647.89	647.95
C	19+96.83	6.75	647.89	647.96
D	20+06.83	6.75	647.89	647.95
E	20+16.83	6.75	647.89	647.94
F	20+26.83	6.75	647.89	647.91
CL Brg. N. Abut.	20+33.17	6.75	647.89	647.89
Bk. N. Abutment	20+35.00	6.75	647.89	647.89

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abutment	19+65.00	13.50	647.78	647.78
CL Brg. S. Abut.	19+66.83	13.50	647.78	647.78
A	19+76.83	13.50	647.78	647.81
B	19+86.83	13.50	647.78	647.83
C	19+96.83	13.50	647.78	647.84
D	20+06.83	13.50	647.78	647.84
E	20+16.83	13.50	647.78	647.82
F	20+26.83	13.50	647.78	647.79
CL Brg. N. Abut.	20+33.17	13.50	647.78	647.78
Bk. N. Abutment	20+35.00	13.50	647.78	647.78

TOP OF SLAB ELEVATIONS

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	10
21 SHEETS	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	19+36.00	-15.00	647.74
A	19+46.00	-15.00	647.74
B	19+56.00	-15.00	647.74
N. End South Appr. Pav't.	19+66.00	-15.00	647.74

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	19+36.00	-11.00	647.83
A	19+46.00	-11.00	647.83
B	19+56.00	-11.00	647.83
N. End South Appr. Pav't.	19+66.00	-11.00	647.83

PROFILE GRADE & C ROADWAY

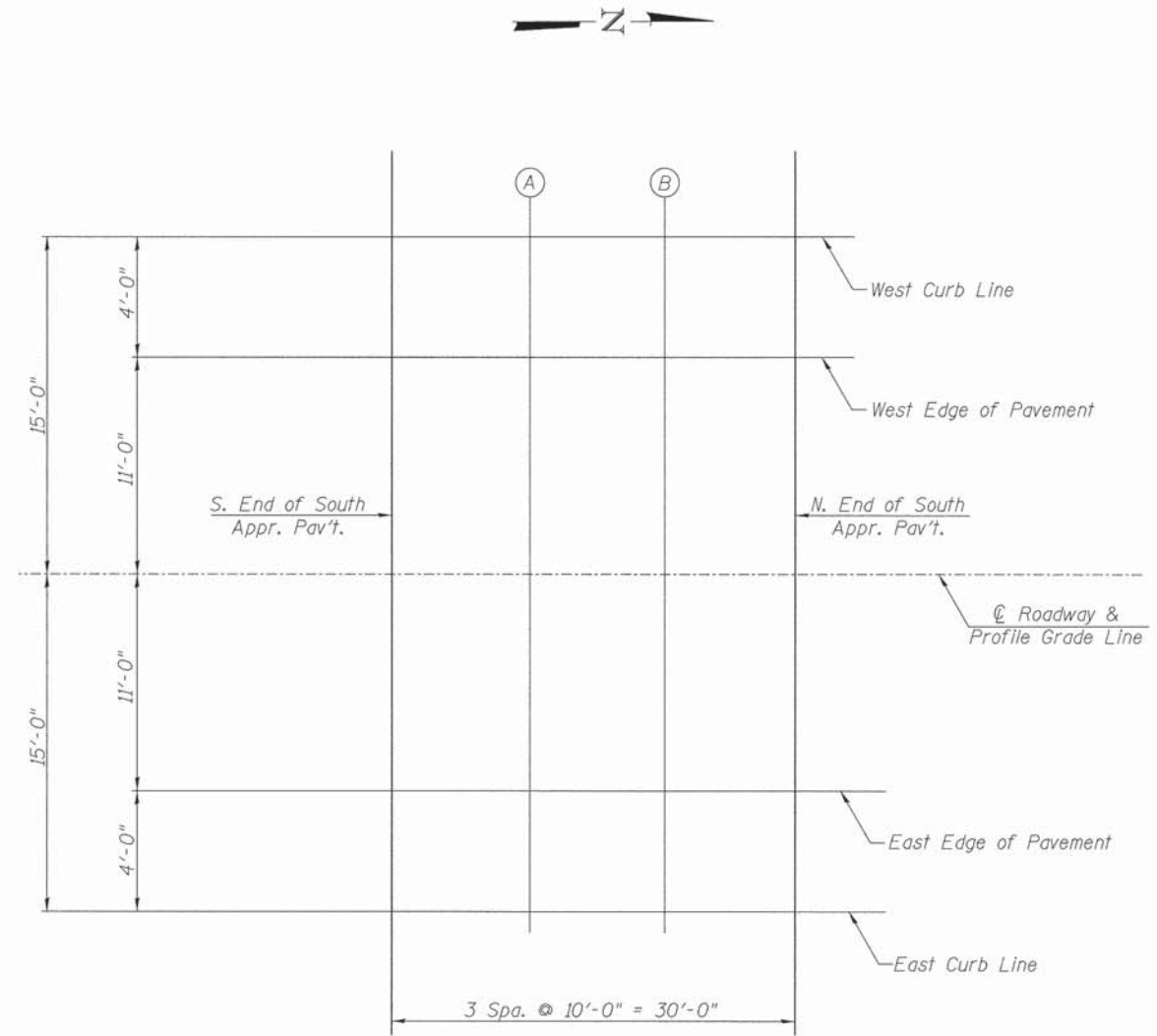
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	19+36.00	0.00	648.00
A	19+46.00	0.00	648.00
B	19+56.00	0.00	648.00
N. End South Appr. Pav't.	19+66.00	0.00	648.00

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	19+36.00	11.00	647.83
A	19+46.00	11.00	647.83
B	19+56.00	11.00	647.83
N. End South Appr. Pav't.	19+66.00	11.00	647.83

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	19+36.00	15.00	647.74
A	19+46.00	15.00	647.74
B	19+56.00	15.00	647.74
N. End South Appr. Pav't.	19+66.00	15.00	647.74



PLAN SOUTH APPROACH PAVEMENT

TOP OF SOUTH APPROACH SLAB ELEVATIONS

SHEET NO. 5 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	11
S.N. 050-3610			CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0268(113)		

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	20+34.00	-15.00	647.74
A	20+44.00	-15.00	647.74
B	20+54.00	-15.00	647.74
N. End North Appr. Pav't.	20+64.00	-15.00	647.74

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	20+34.00	-11.00	647.83
A	20+44.00	-11.00	647.83
B	20+54.00	-11.00	647.83
N. End North Appr. Pav't.	20+64.00	-11.00	647.83

PROFILE GRADE & C ROADWAY

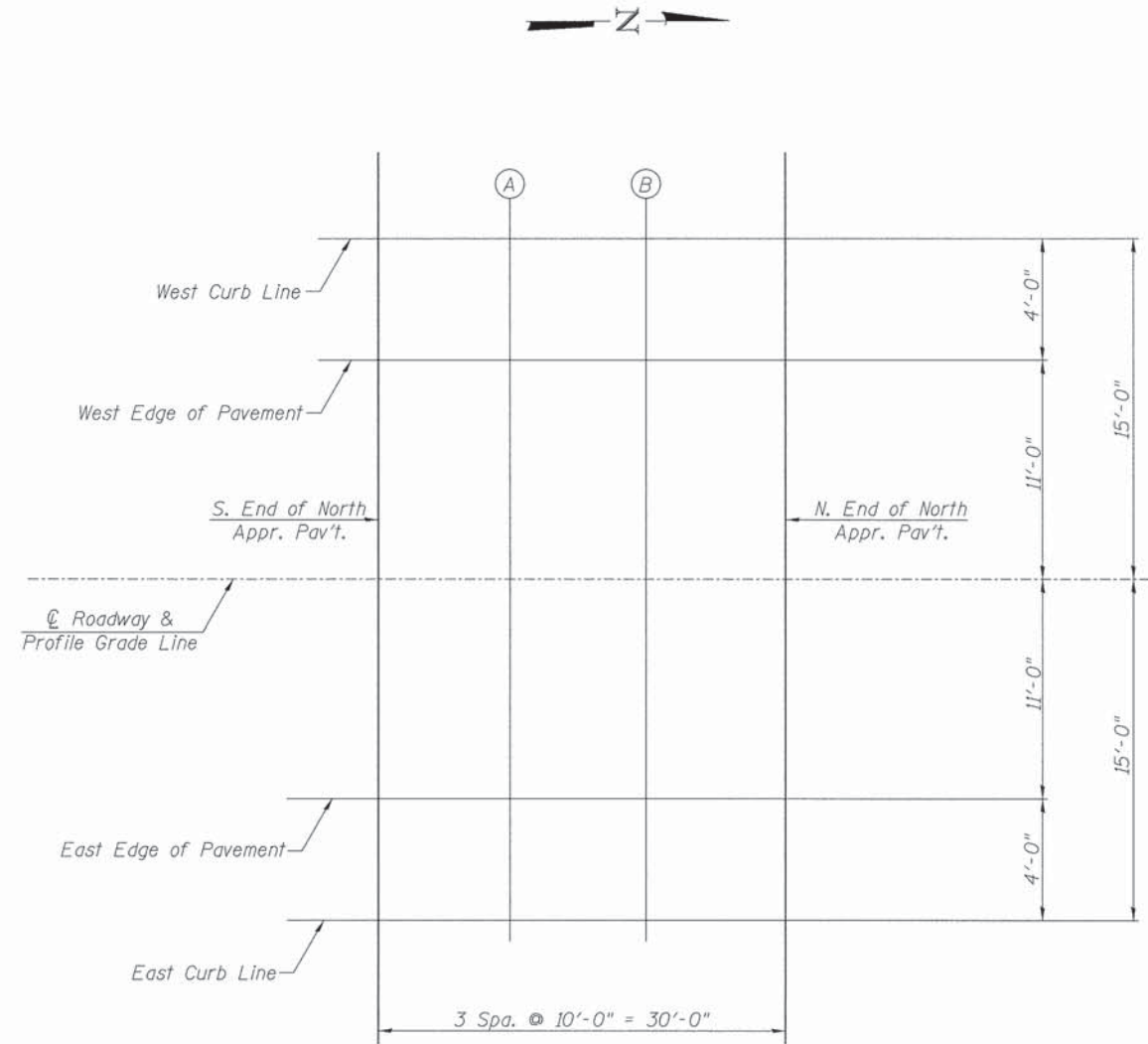
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	20+34.00	0.00	648.00
A	20+44.00	0.00	648.00
B	20+54.00	0.00	648.00
N. End North Appr. Pav't.	20+64.00	0.00	648.00

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	20+34.00	11.00	647.83
A	20+44.00	11.00	647.83
B	20+54.00	11.00	647.83
N. End North Appr. Pav't.	20+64.00	11.00	647.83

EAST CURB LINE

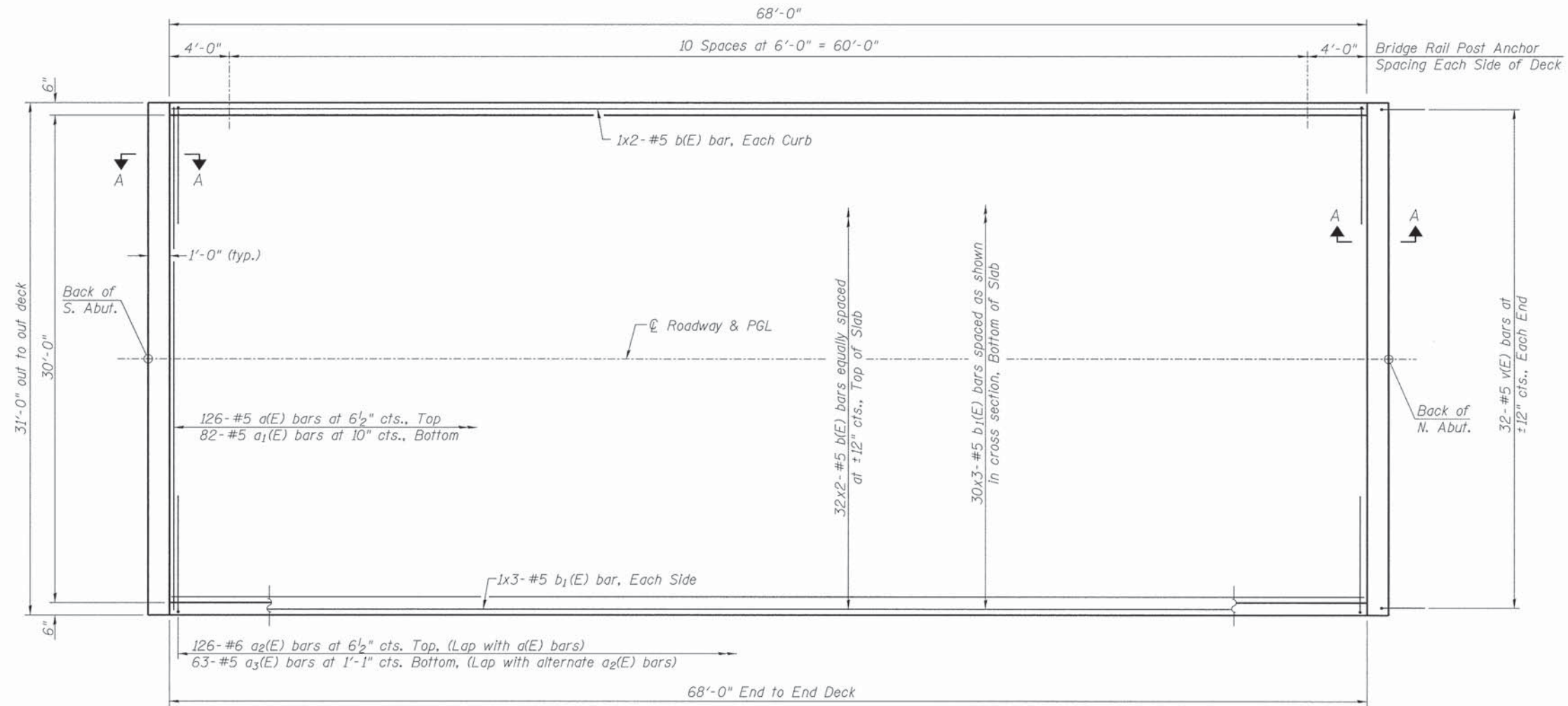
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	20+34.00	15.00	647.74
A	20+44.00	15.00	647.74
B	20+54.00	15.00	647.74
N. End North Appr. Pav't.	20+64.00	15.00	647.74



PLAN NORTH APPROACH PAVEMENT

TOP OF NORTH APPROACH SLAB ELEVATIONS

SHEET NO. 6 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	12
S.N. 050-3610			CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		

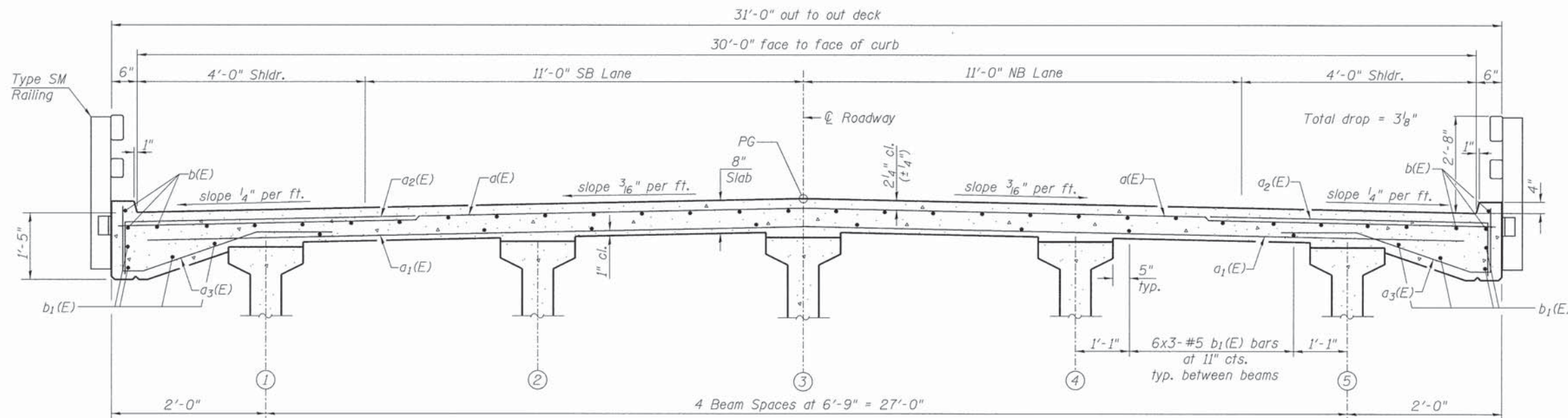


PLAN



MIN. BAR LAP
#5 = 2'-7"

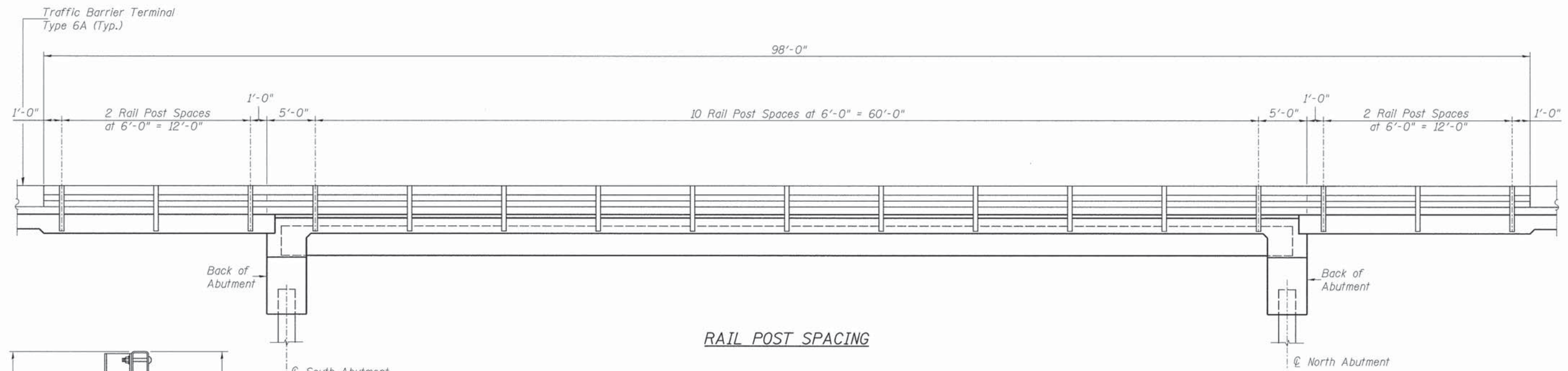
Notes:
See Sheet 8 of 21 for superstructure details and Bill of Material.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 9 of 21 for Section A-A & Diaphragm Details.
See Sheet 12 of 21 for Rail Post Anchor Details.



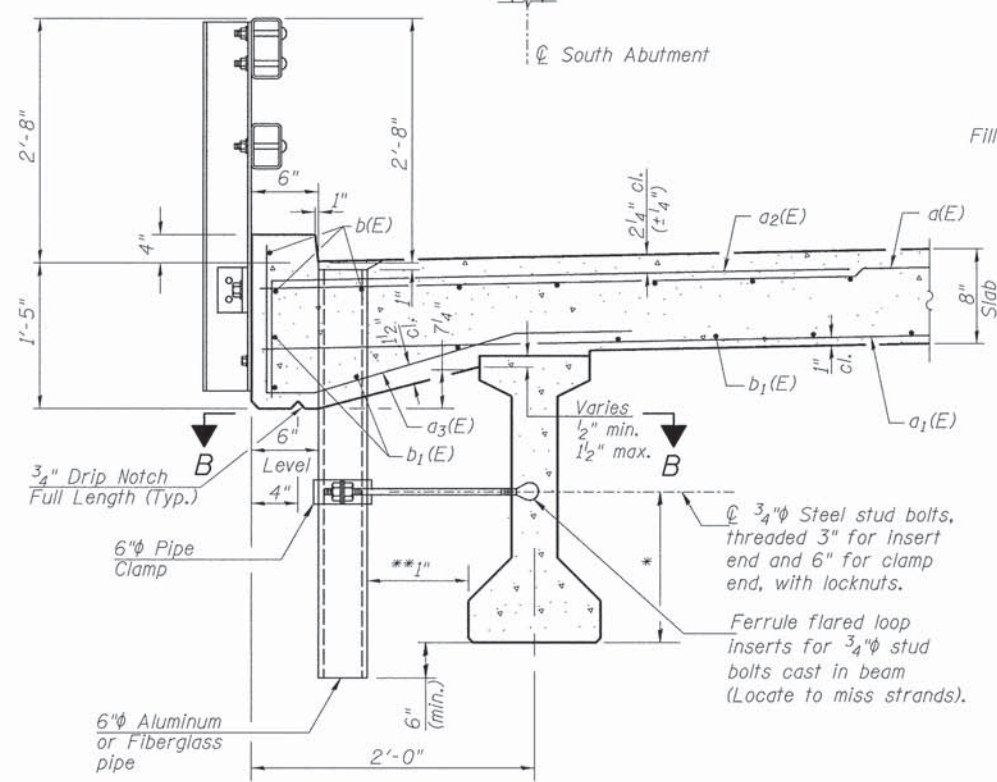
CROSS SECTION
(Looking North)

SUPERSTRUCTURE

SHEET NO. 7 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	13
	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		

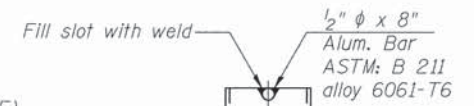


RAIL POST SPACING

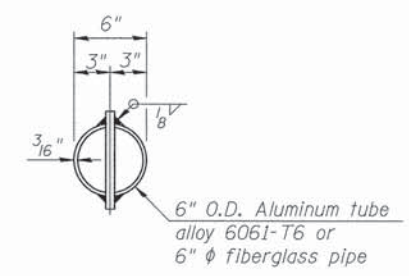


* For insert locations See sheet 14 of 21.
 ** Tilt Floor Drain as necessary to maintain clearance.
SECTION THRU PARAPET
 See Sheet 12 of 21 for Rail Post Anchor Details.

Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.



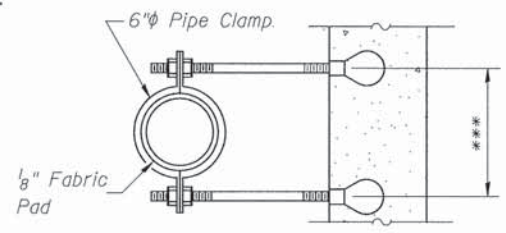
ALUMINUM TUBE



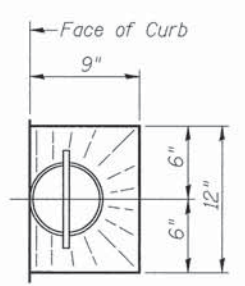
TOP PLAN
(Showing aluminum tube)



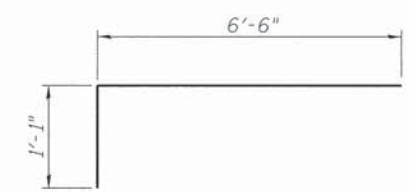
FIBERGLASS PIPE



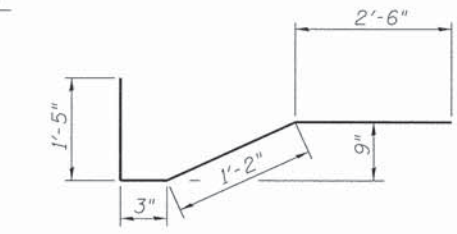
SECTION B-B
 ***Dimension as required by Pipe Clamp



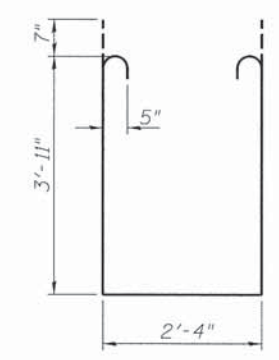
TOP PLAN



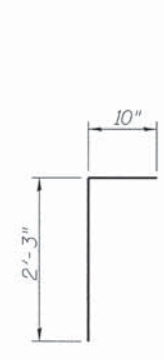
BAR a2(E)



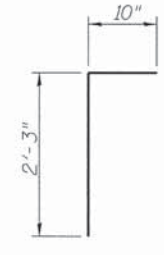
BAR a3(E)



BAR s(E)



BAR s1(E)



BAR v(E)

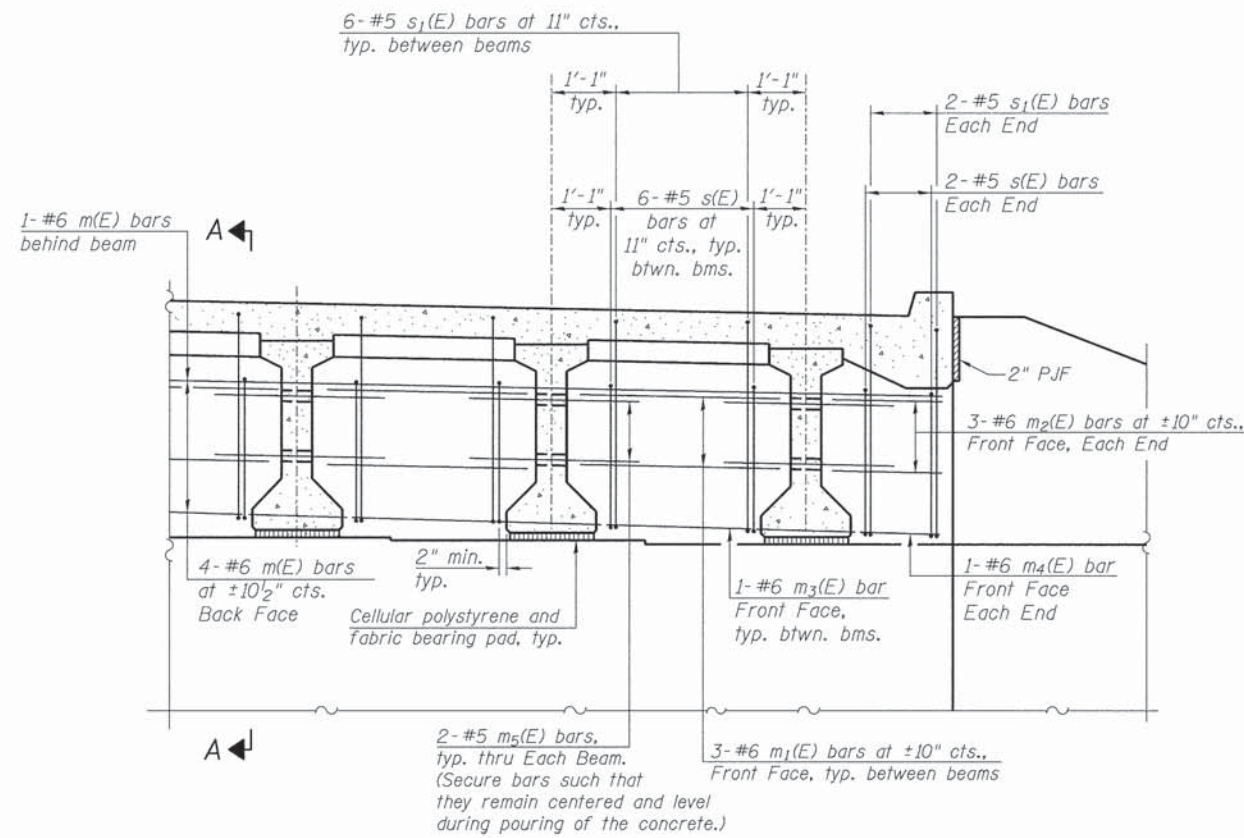
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	126	#5	30'-9"	—
a1(E)	82	#5	29'-9"	—
a2(E)	252	#6	7'-7"	┌
a3(E)	126	#5	5'-4"	┌
b(E)	68	#5	35'-2"	—
b1(E)	96	#5	24'-4"	—
m(E)	10	#6	30'-9"	—
m1(E)	24	#6	6'-0"	—
m2(E)	12	#6	1'-6"	—
m3(E)	8	#6	4'-8"	—
m4(E)	4	#6	0'-10"	—
m5(E)	20	#5	4'-0"	—
s(E)	56	#5	8'-4"	┌
s1(E)	56	#5	11'-4"	┌
v(E)	64	#5	3'-1"	┌
① Reinforcement Bars, Epoxy Coated			POUND	17,290
Concrete Superstructure			CU YD	84.6

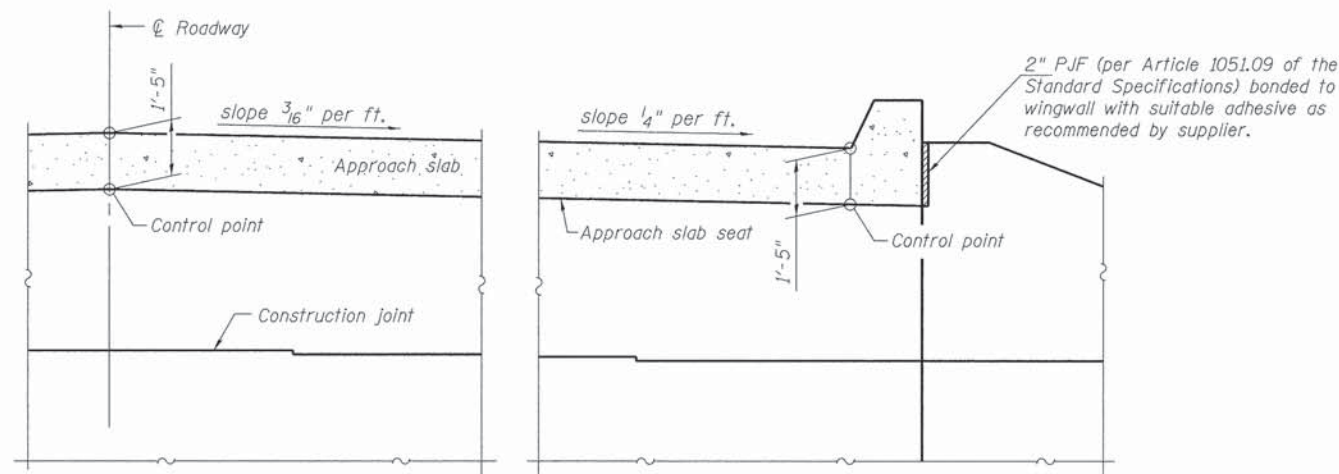
① See Special Provisions

SUPERSTRUCTURE DETAILS

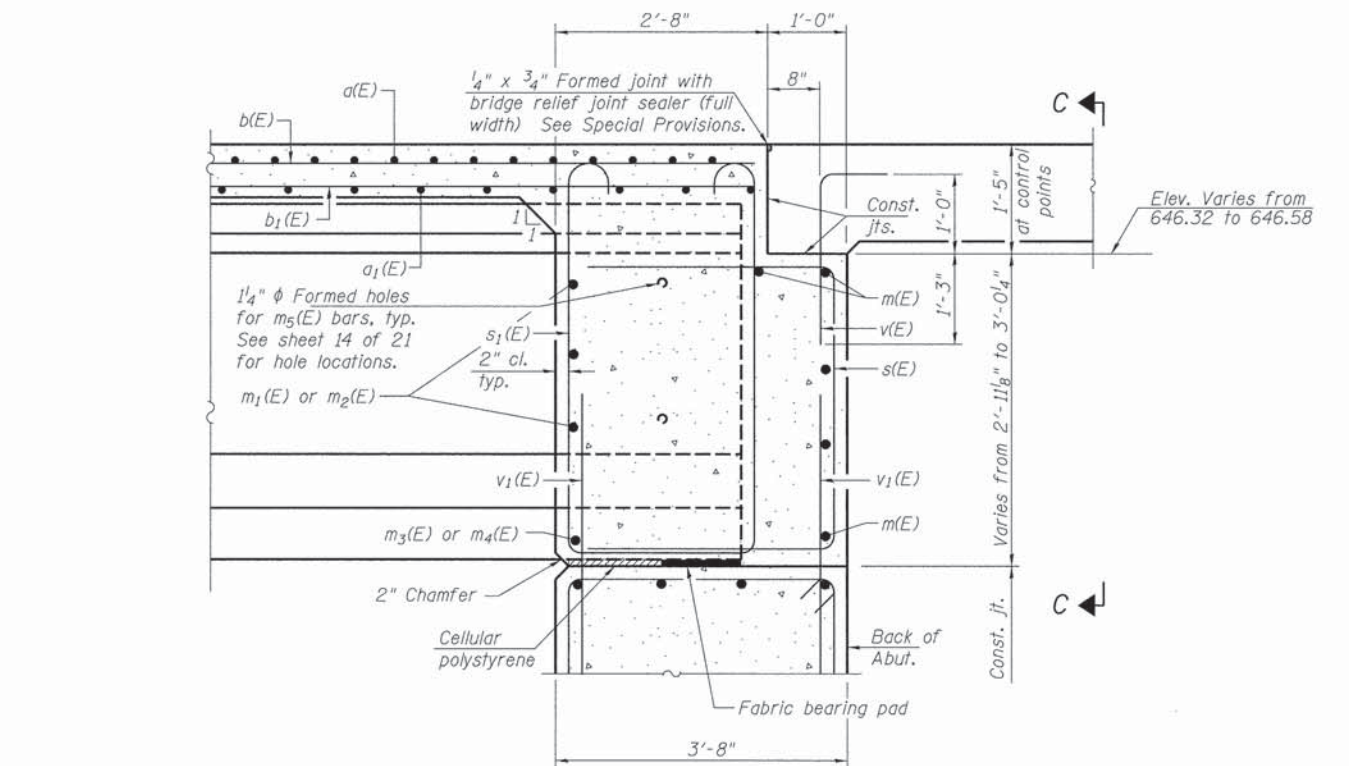
SHEET NO. 8 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	14
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)			



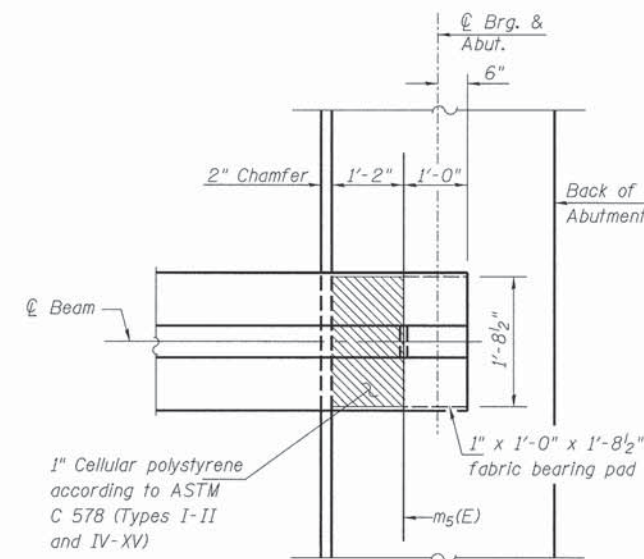
DIAPHRAGM ELEVATION AT ABUTMENT



VIEW C-C



SECTION A-A



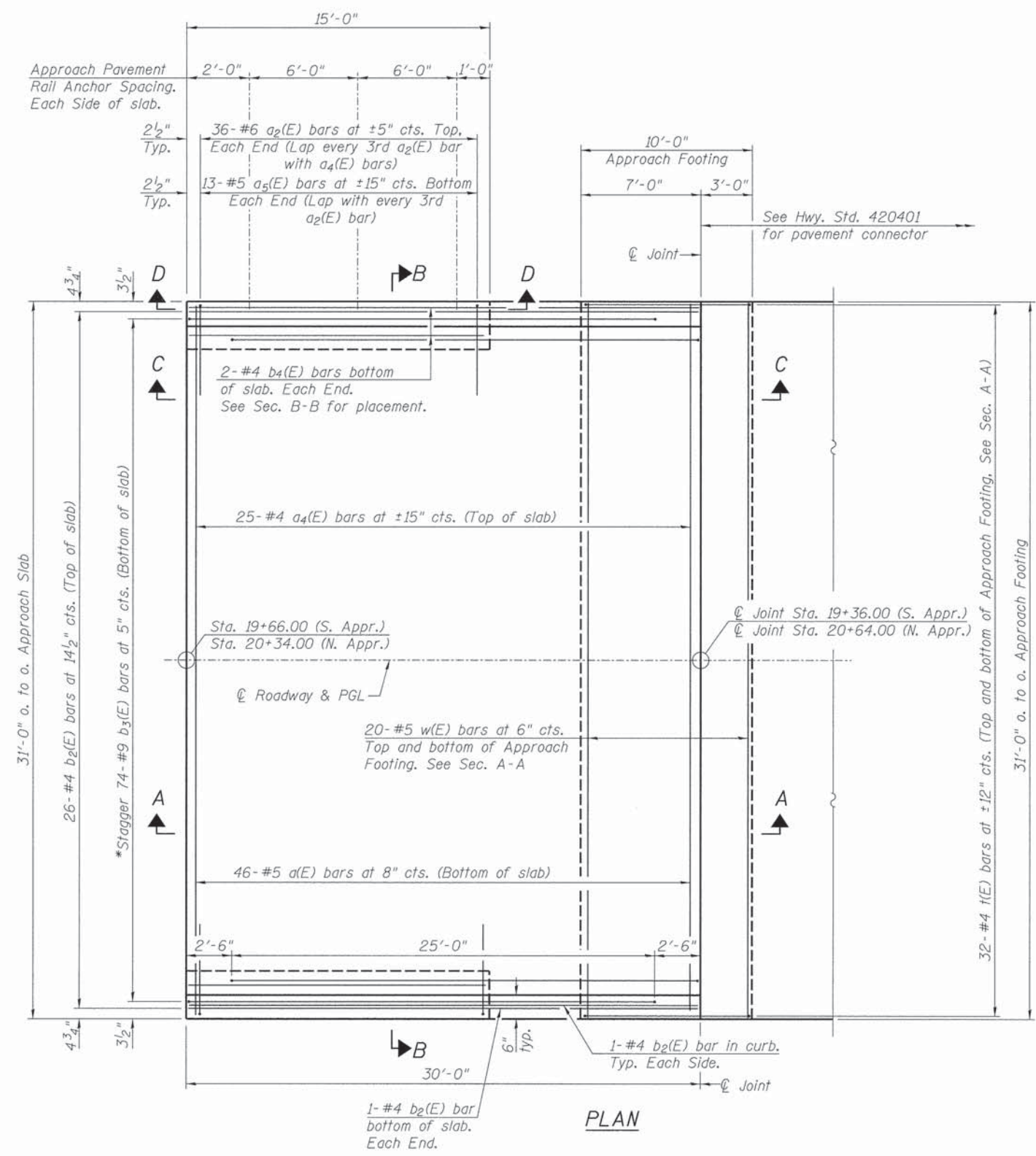
PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

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.
 See sheet 8 of 21 for details of bar s(E), s1(E), and v(E).
 The approach slab seat shall have a constant slope determined from the control points shown.
 Cost of cellular polystyrene is included with Concrete Superstructure. See sheet 16 of 21 for v1(E) bar placement.

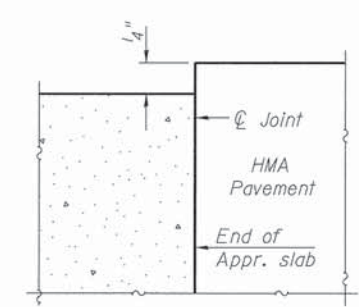
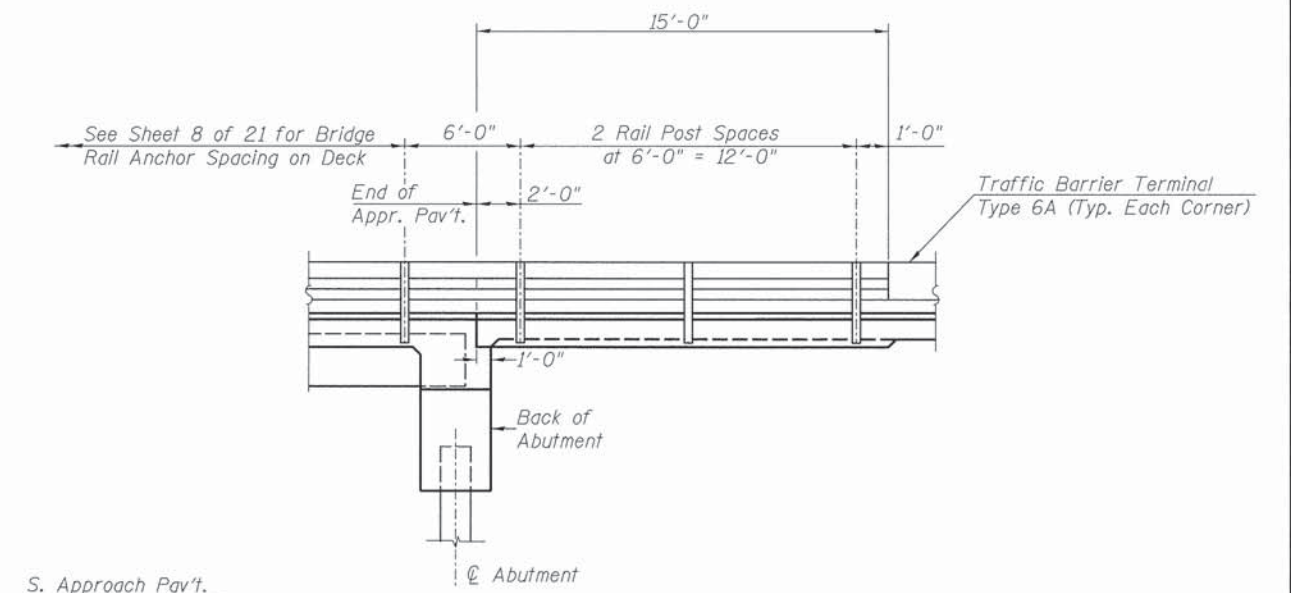
DIAPHRAGM DETAILS

SHEET NO. 9 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	15
	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)		

Notes:
 See sheet 11 of 21 for Sections A-A, B-B, D-D and View C-C.
 $a_1(E)$, $a_2(E)$, $a_4(E)$, and $a_5(E)$ bar spacings measured along \varnothing Rdwy.
 See Sheet 12 of 21 for Rail Post Anchor Details.



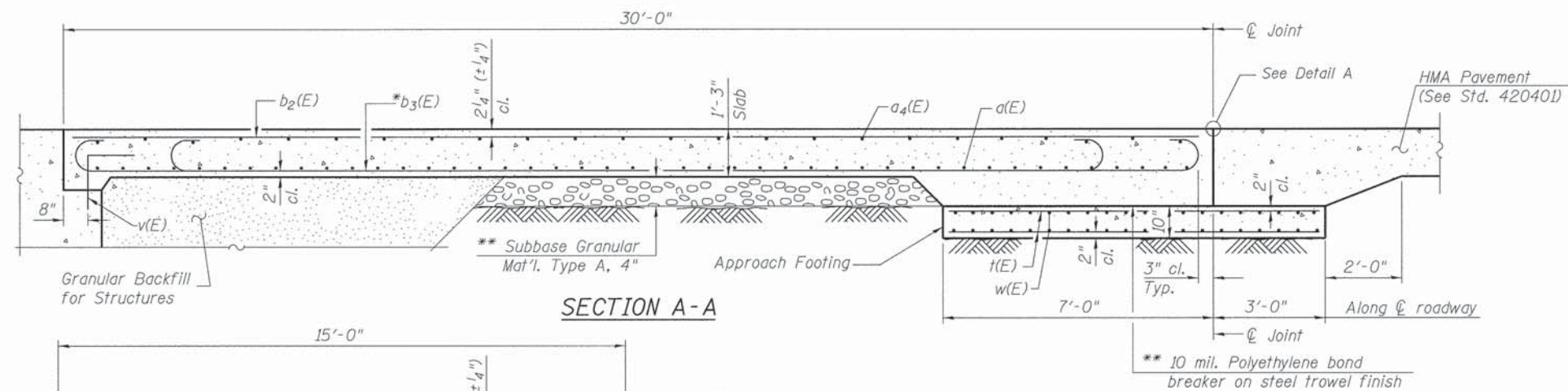
* Tilt #9 $b_3(E)$ bars as required to maintain clearance.



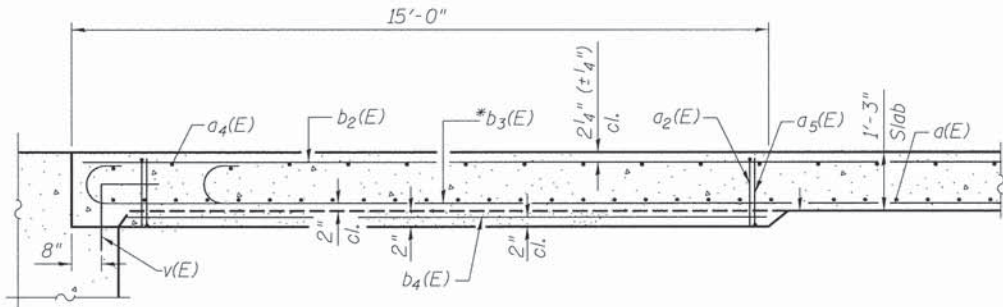
(Sheet 1 of 2)

BRIDGE APPROACH SLAB DETAILS

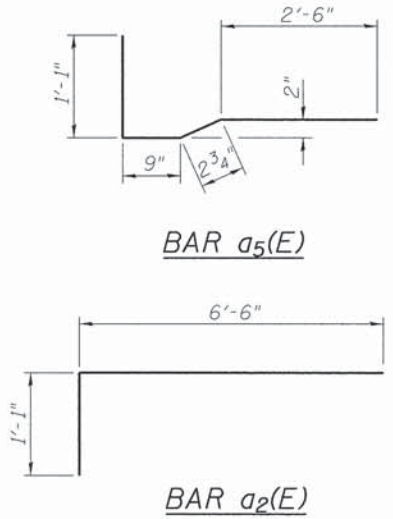
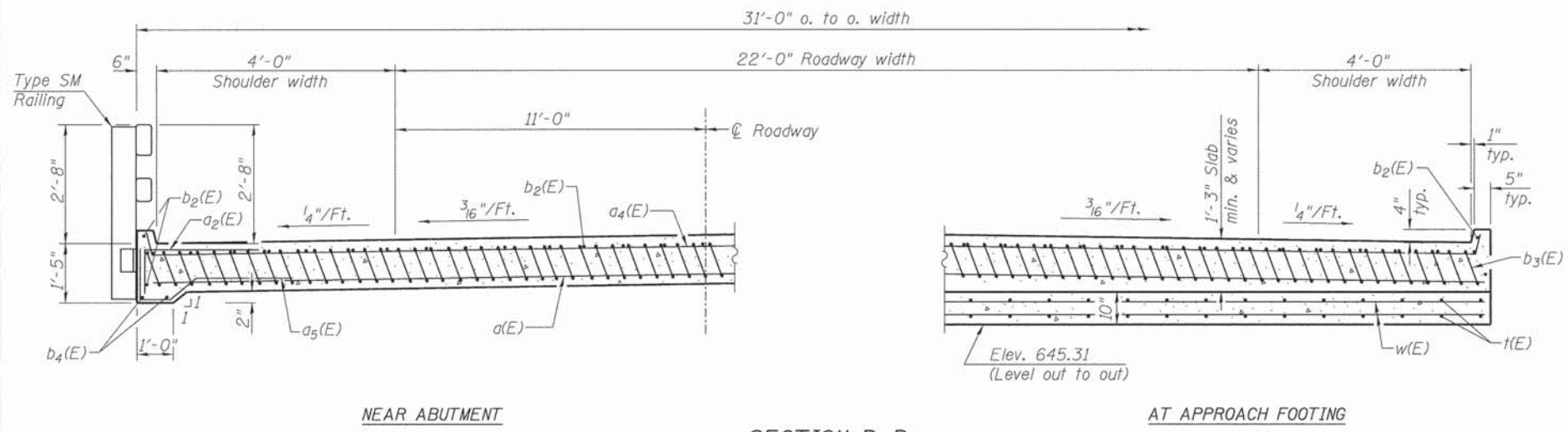
SHEET NO. 10 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	16
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0268(113)		



Notes:
 See sheet 10 of 21 for Detail A.
 Approach slab and curb shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 See sheet 8 of 21 for v(E) bar details.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See sheet 2 of 21 for Granular Backfill and drainage treatment details.

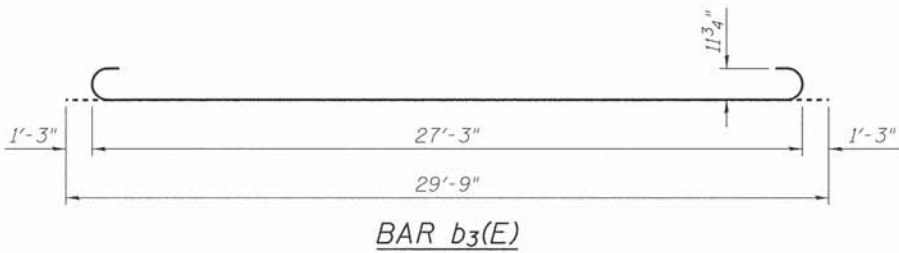
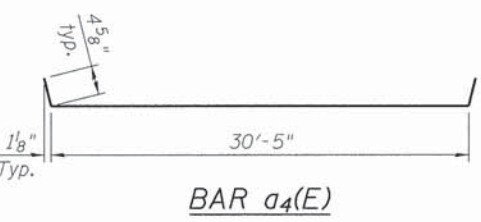
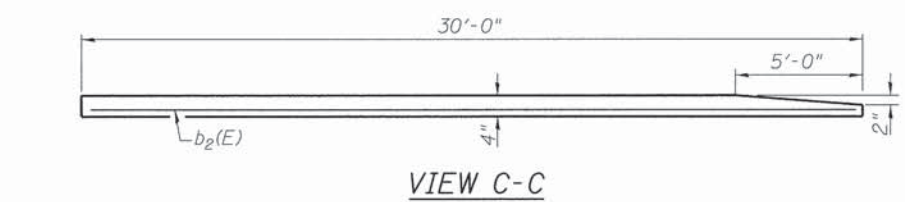


* Tilt #9 b3(E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure



**TWO APPROACHES
 BILL OF MATERIAL**

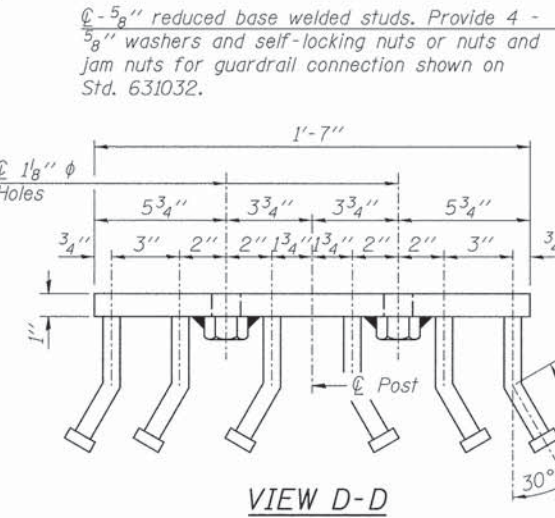
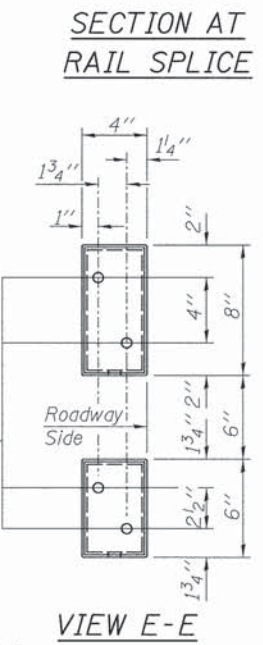
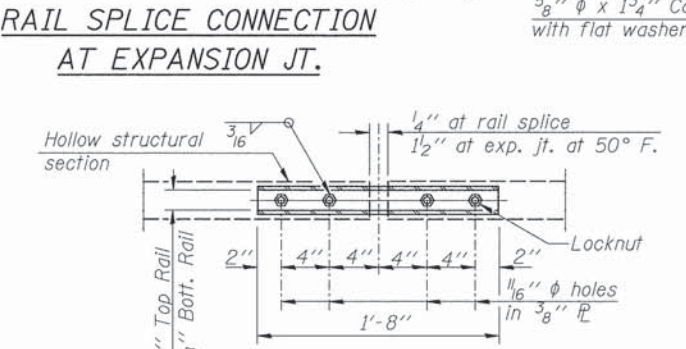
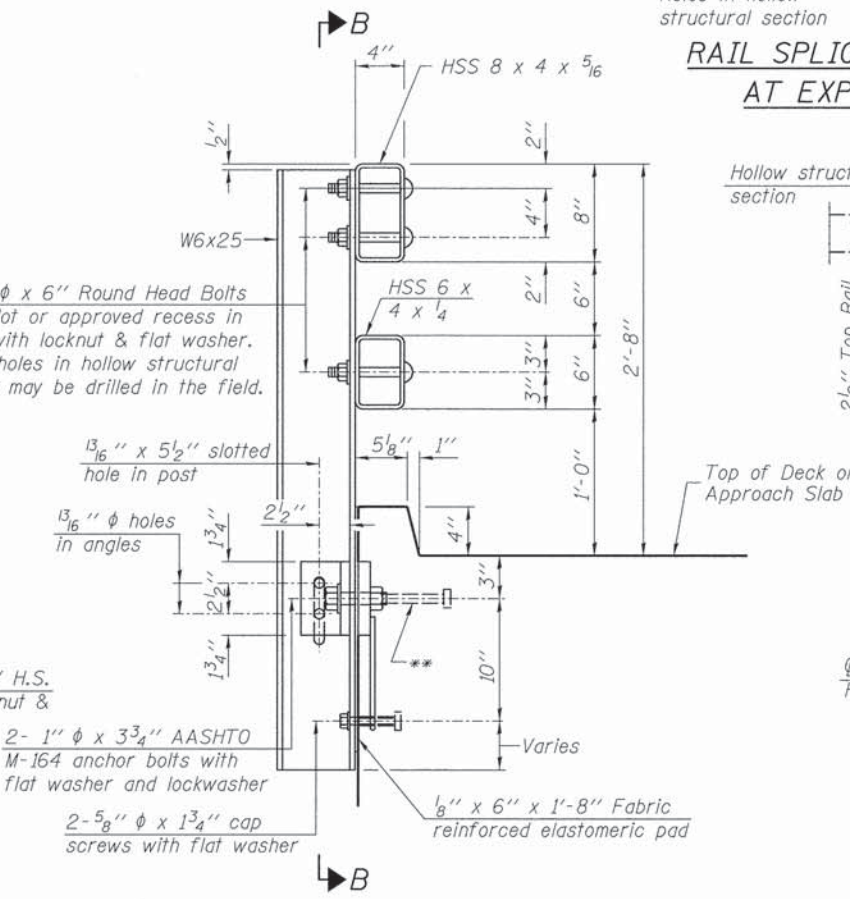
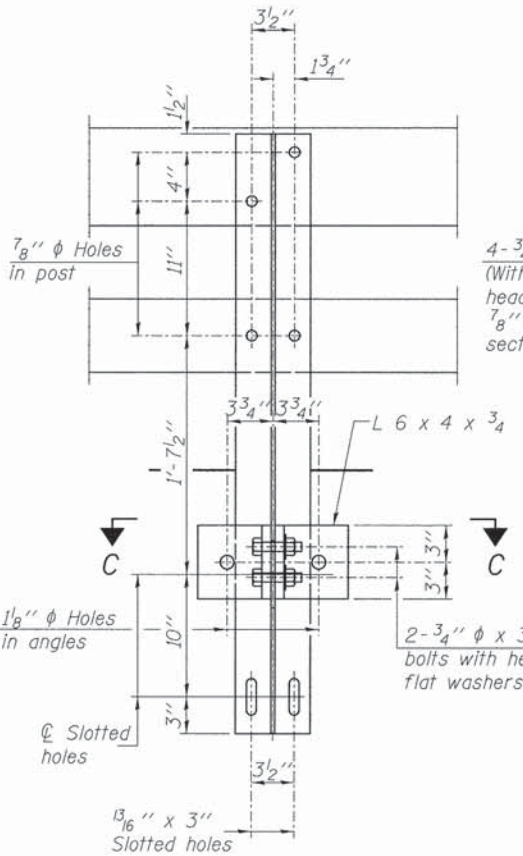
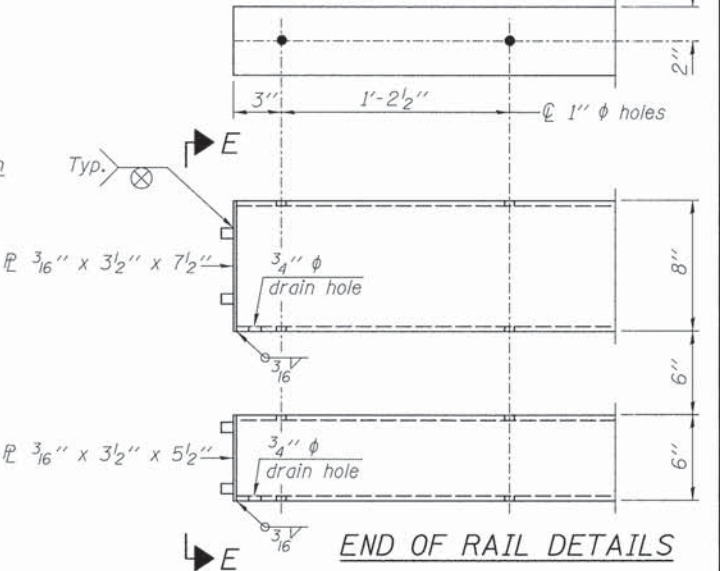
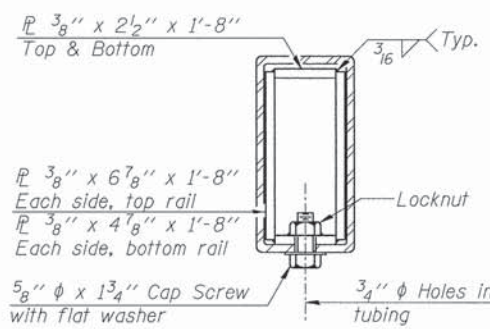
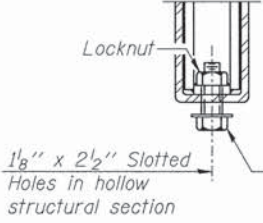
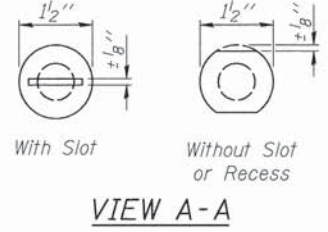
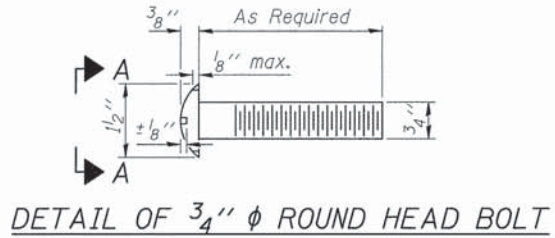
Bar	No.	Size	Length	Shape
a(E)	92	#5	30'-9"	—
a2(E)	144	#6	7'-7"	┌
a4(E)	50	#4	31'-3"	┌
a5(E)	52	#5	4'-7"	┌
b2(E)	60	#4	29'-8"	—
b3(E)	148	#9	29'-9"	┌
b4(E)	8	#4	14'-8"	—
t(E)	128	#4	9'-8"	—
w(E)	80	#5	30'-8"	—
Concrete Superstructure			CU YD	95.4
Concrete Structures			CU YD	19.2
① Reinforcement Bars, Epoxy Coated			POUND	25,510



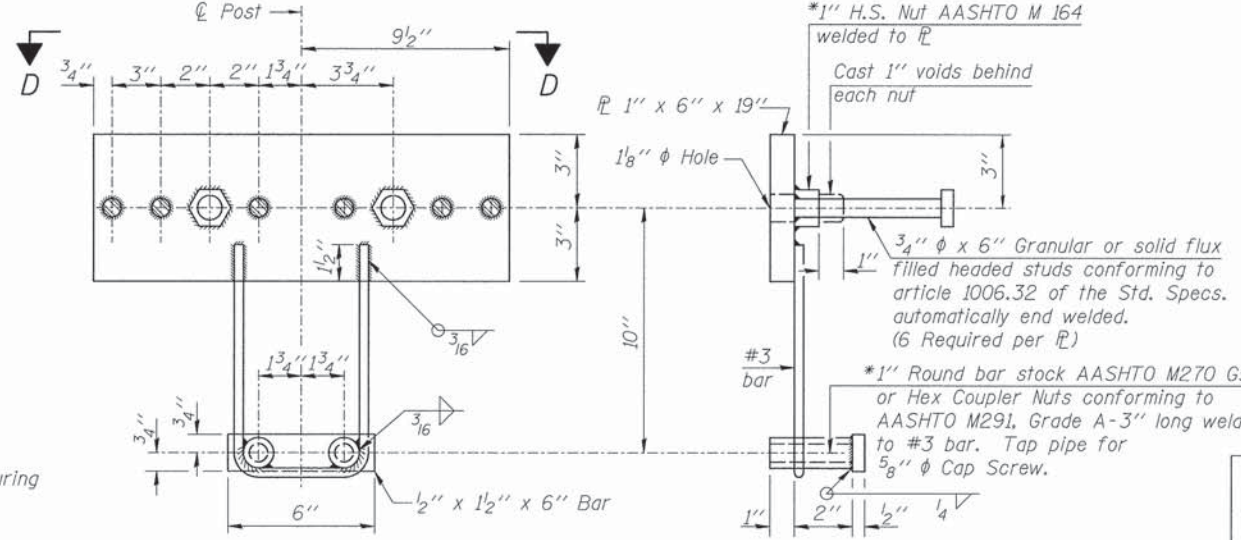
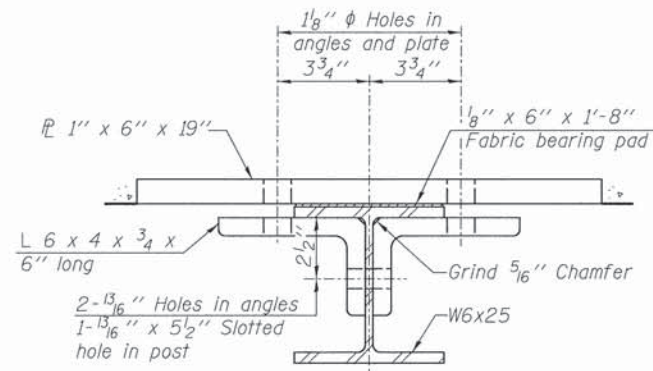
(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS

SHEET NO. 11 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	17
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)			

FOR RAIL POST SPACING SEE SHEET #8 OF 21.



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.



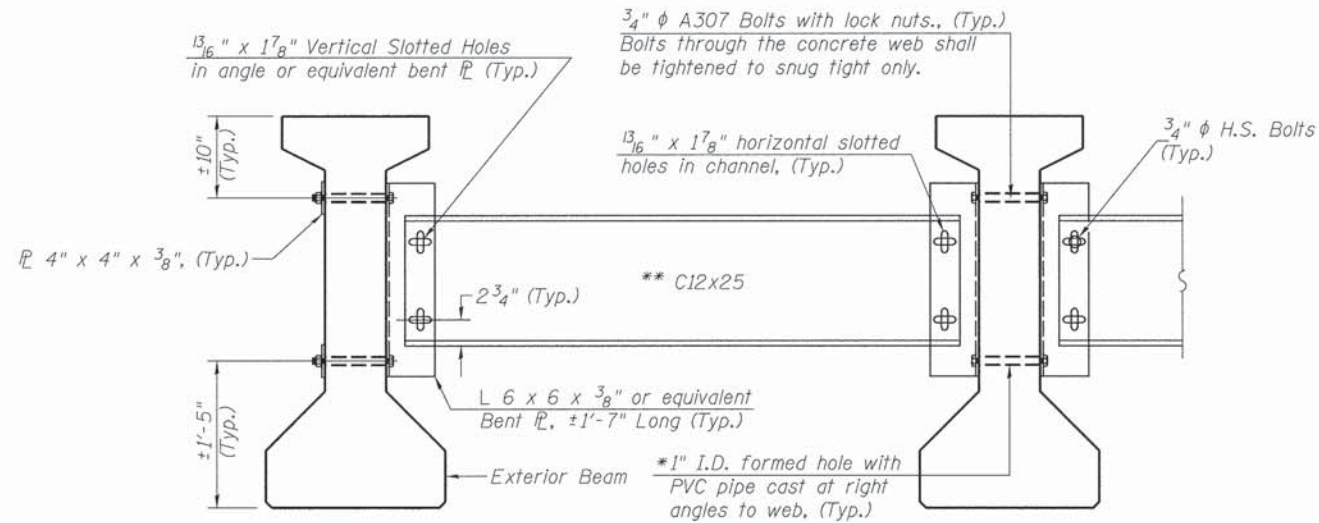
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	FOOT	196

STEEL RAILING TYPE SM

SHEET NO. 12	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	18
21 SHEETS	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		

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



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 inch unless otherwise noted.
 5/16 inch x 3 inch x 3 inch 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.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.
 All structural steel for permanent bracing shall be AASHTO M270 Gr. 50.

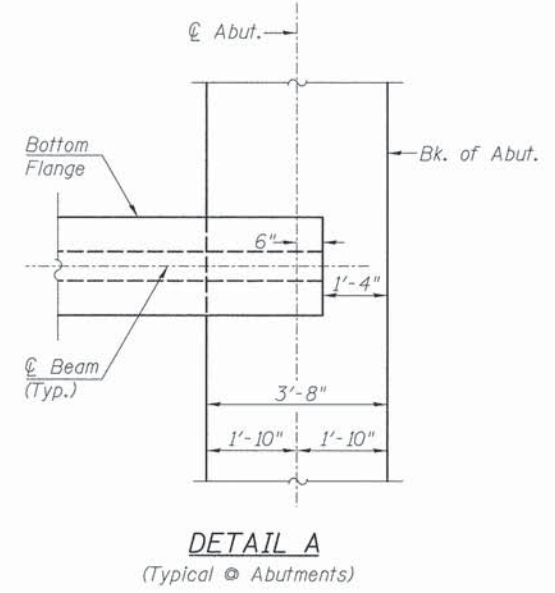
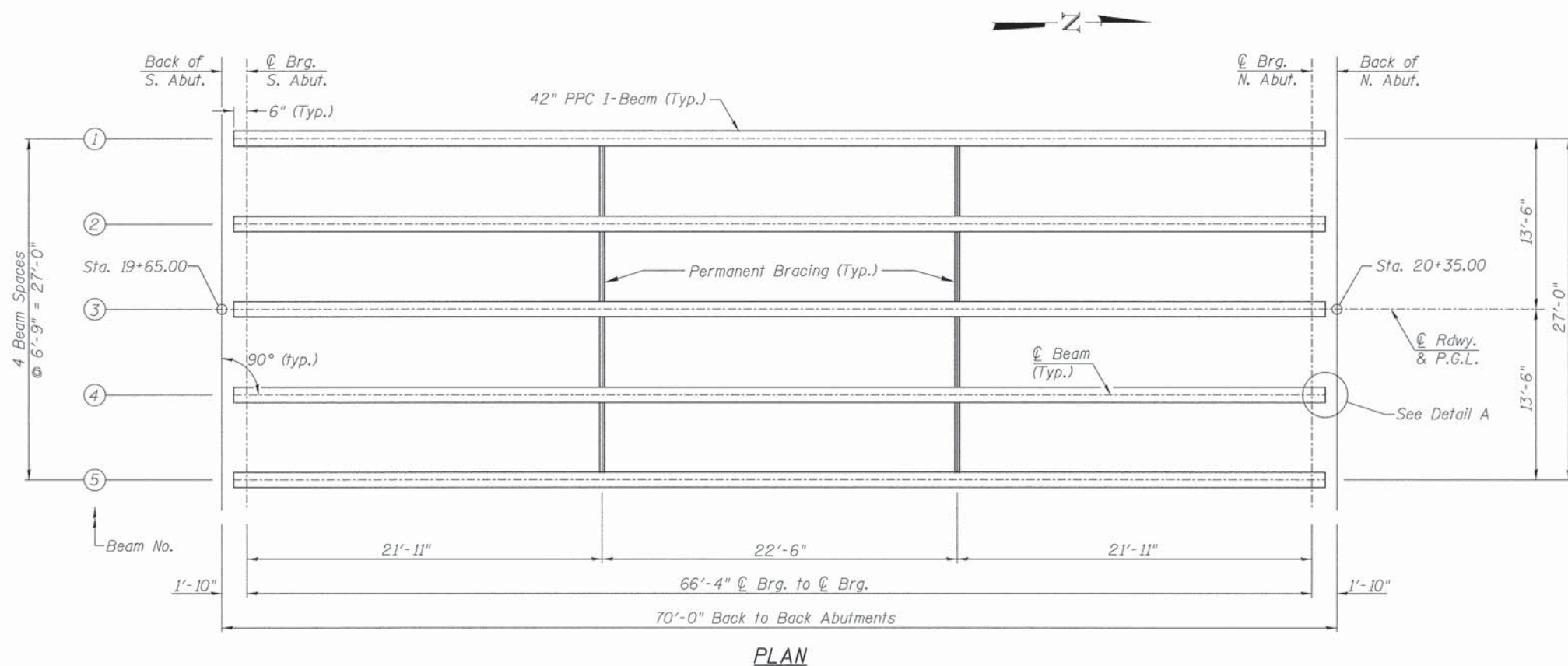
* Fabricator shall locate to miss strands within permissible tolerances.
 ** Alternate C12x30 channels are permitted to facilitate material acquisition.

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)	90,956
I'	(in^4)	286,151
S_b	(in^3)	5,153
S_b'	(in^3)	8,866
S_t	(in^3)	3,736
S_t'	(in^3)	29,425
$DC1$	($k/ft.$)	1.186
M_{DC1}	(k)	652
$DC2$	($k/ft.$)	0.03
M_{DC2}	(k)	17
DW	($k/ft.$)	0.338
M_{DW}	(k)	186
$M_L + IM$	(k)	1,011

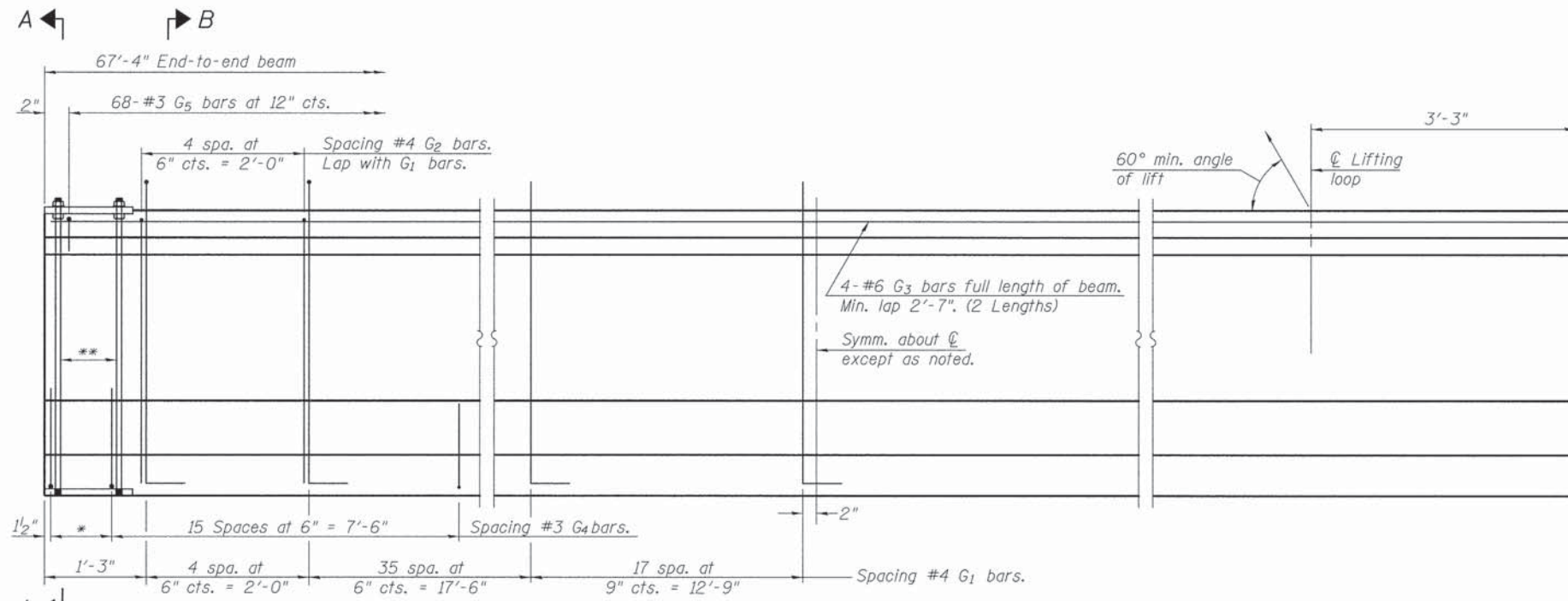
INTERIOR BEAM REACTION TABLE		
		Abut.
R_{DC1}	(k)	39.3
R_{DC2}	(k)	1.0
R_{DW}	(k)	11.2
$R_L + IM$	(k)	75.1
R_{Total}	(k)	126.6

PERMANENT BRACING DETAILS FOR 42" PPC I-BEAMS



FRAMING PLAN AND DETAILS

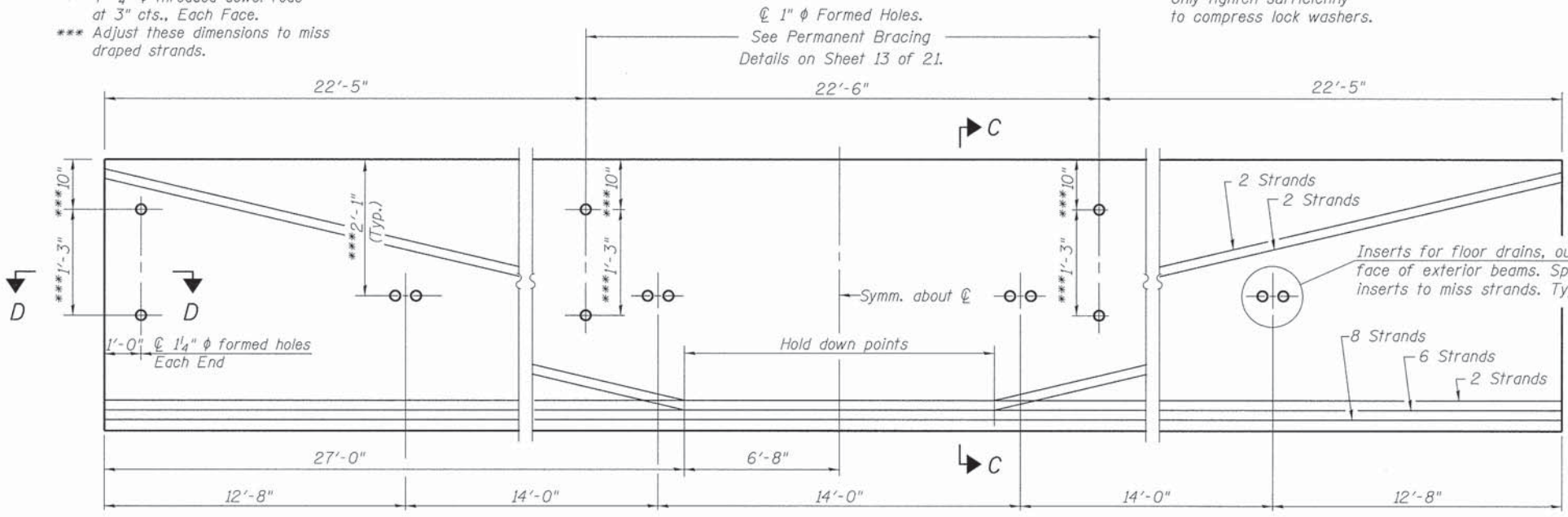
SHEET NO. 13 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	19
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		



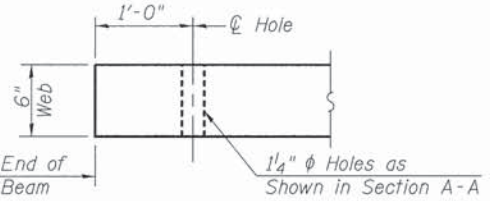
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

- * 3 spaces at 3" = 9"
- ** 4-3/4" φ threaded dowel rods at 3" cts., Each Face.
- *** Adjust these dimensions to miss draped strands.

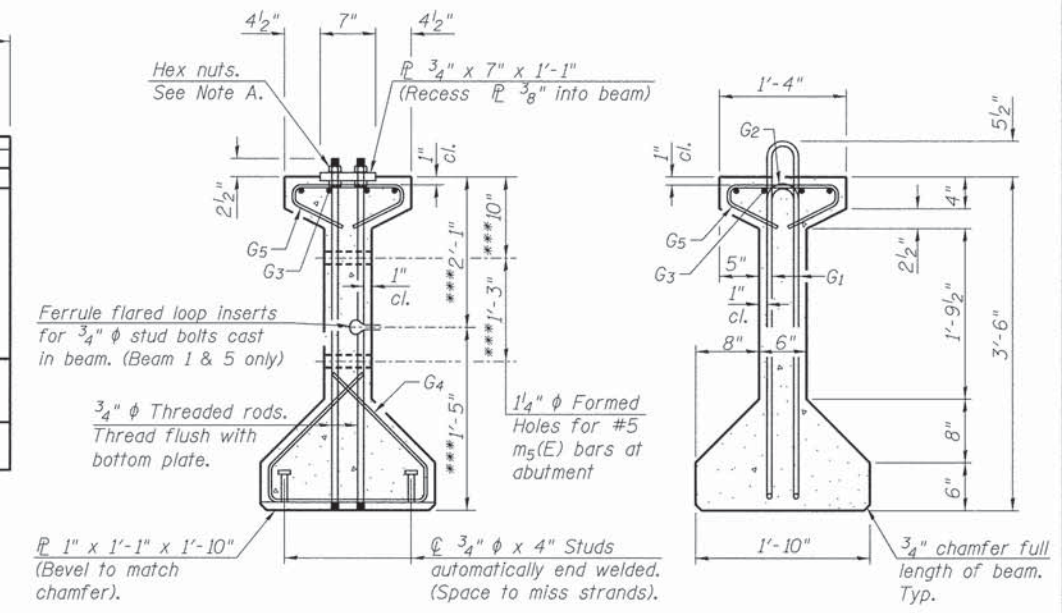
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



ELEVATION OF BEAM
(Showing prestressing steel)

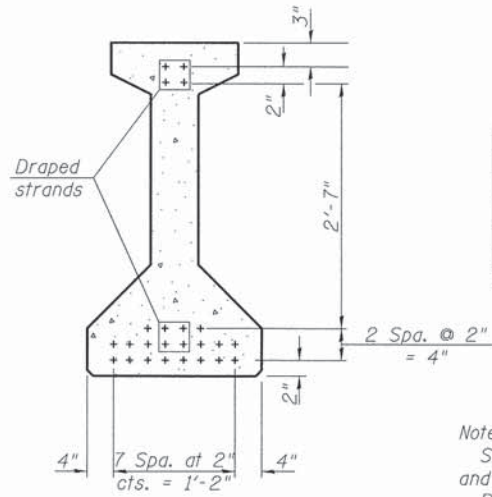


SECTION D-D



SECTION A-A

SECTION B-B



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

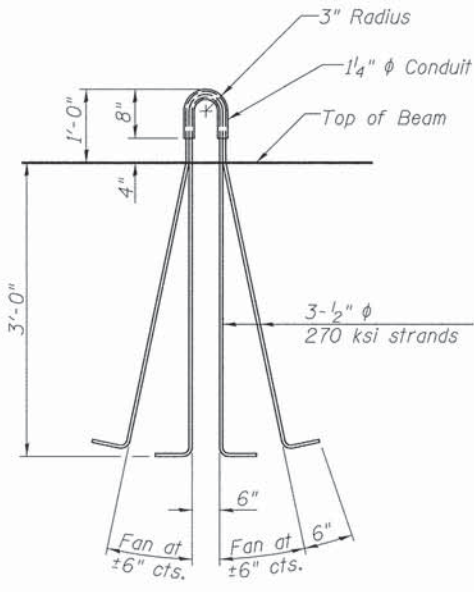
Bar	No.	Size	Length	Shape
G ₁	114	#4	8'-7"	∩ L
G ₂	10	#4	6'-8"	∩
G ₃	8	#6	34'-10"	—
G ₄	38	#3	4'-11"	∩
G ₅	68	#3	2'-6"	∩

***For Information only

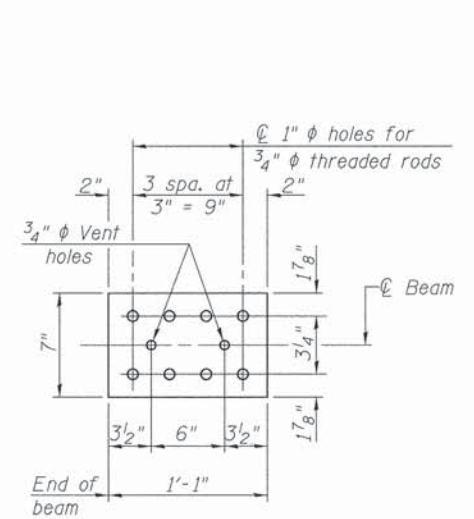
Notes:
See sheet 15 of 21 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

SHEET NO. 14		ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS		CH 15	14-00728-00-BR	LASALLE	37	20
		S.N. 050-3610		CONTRACT NO. 87558		
		FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		

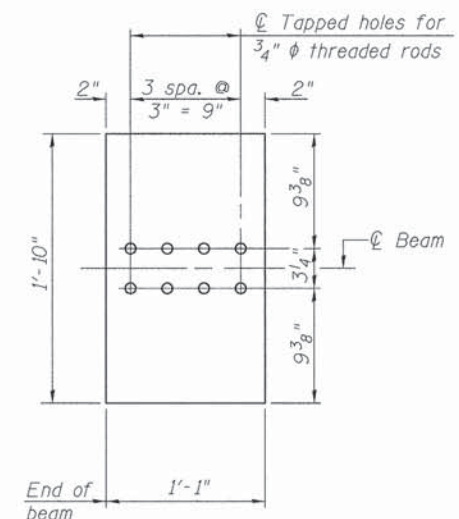
42" PPC I-BEAM



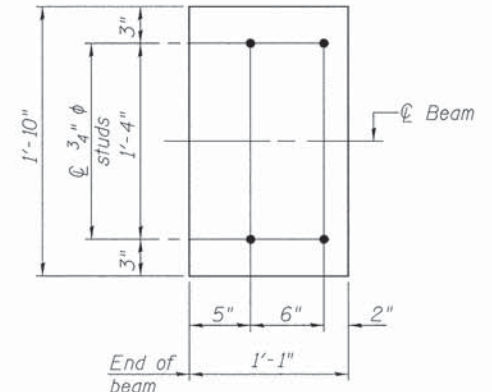
LIFTING LOOP DETAIL



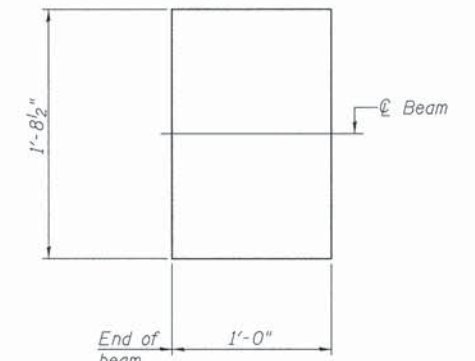
TOP PLATE



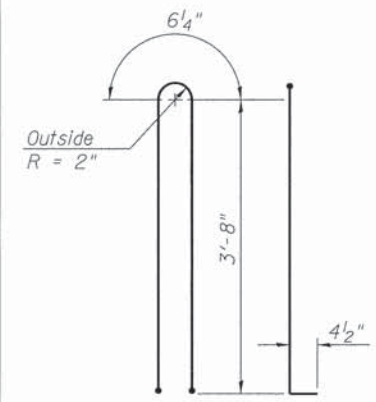
BOTTOM PLATE
(Showing threaded rods)



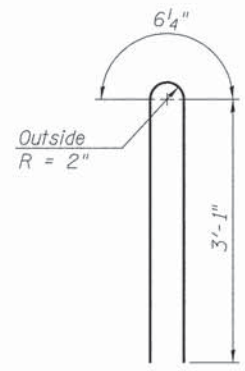
BOTTOM PLATE
(Showing studs)



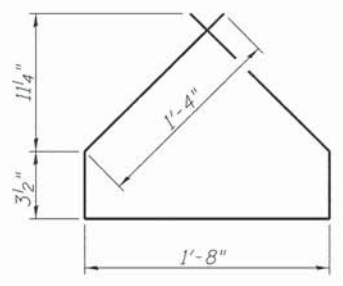
1" FABRIC BEARING PAD



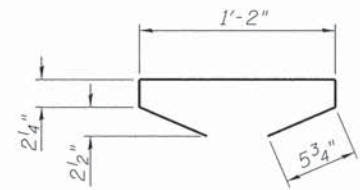
BAR G1



BAR G2



BAR G4



BAR G5

NOTES

Inserts for 3/4" 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 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
 The top and bottom plates shall be AASHTO M270 Grade 50.
 The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
 Threaded rods shall be ASTM F 1554 Grade 55.

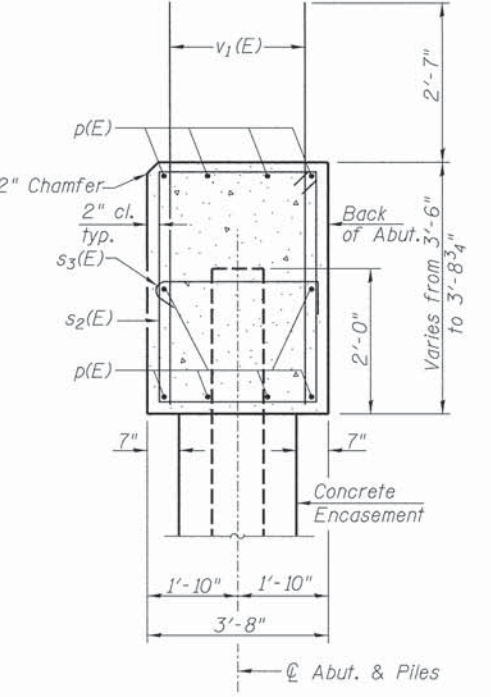
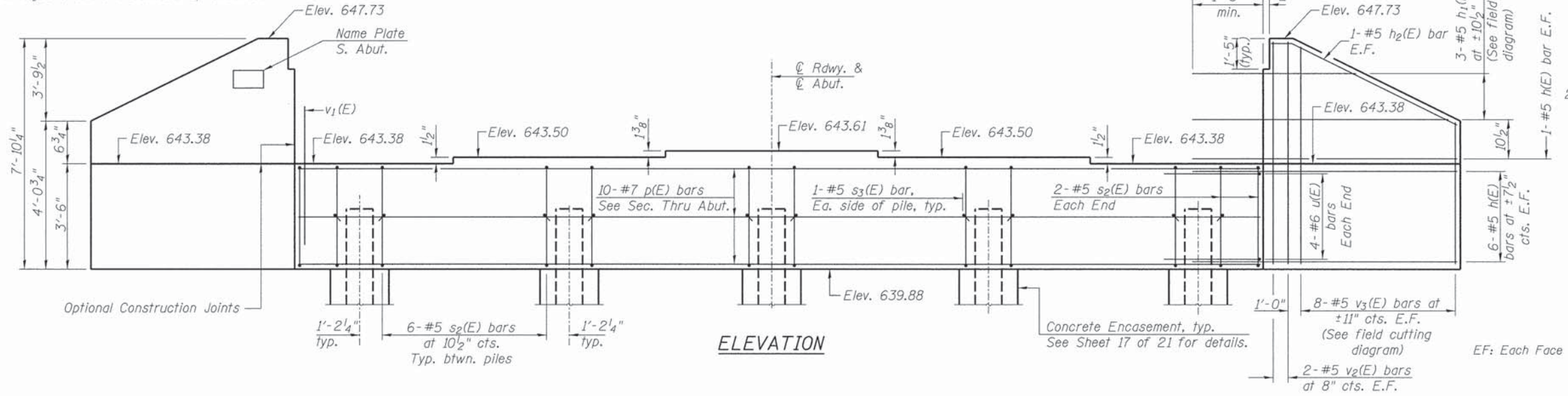
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	FOOT	337

42" PPC I-BEAM DETAILS

SHEET NO. 15	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	21
21 SHEETS	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		

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

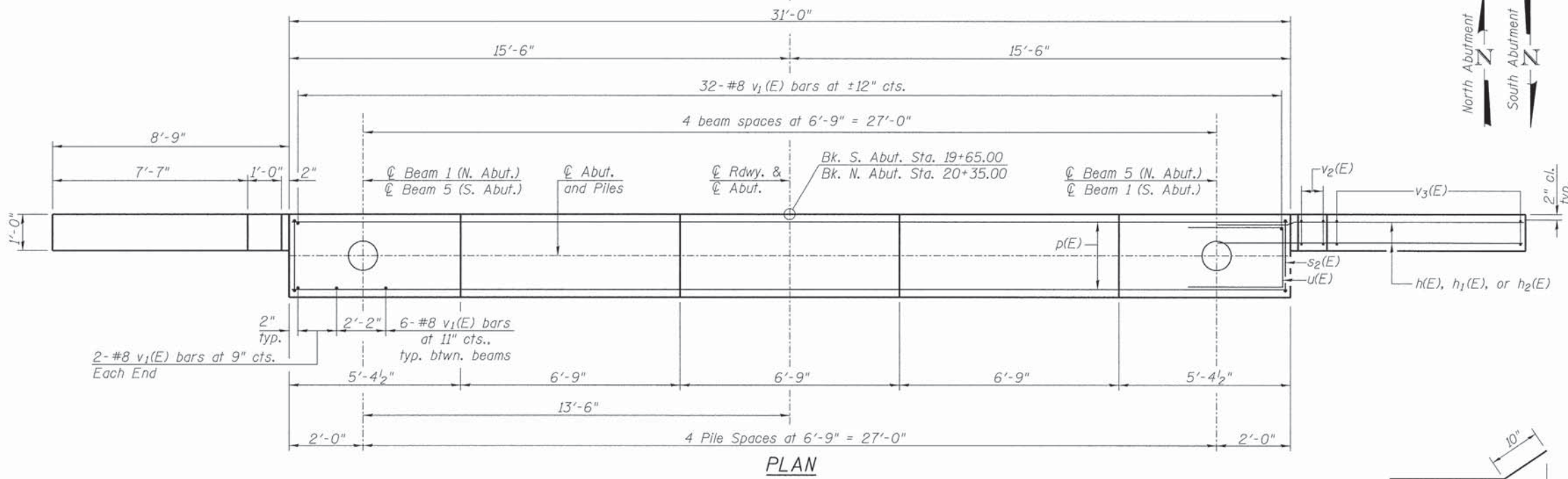


SEC. THRU ABUT.

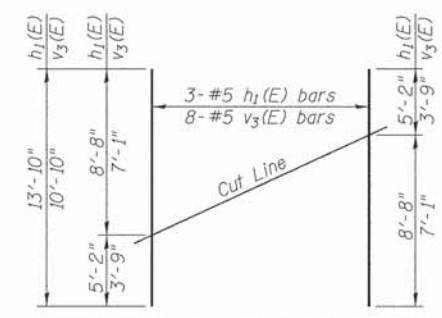
**BILL OF MATERIALS
 TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
h(E)	56	#5	9'-10"	—
h ₁ (E)	12	#5	13'-10"	—
h ₂ (E)	8	#5	9'-2"	—
p(E)	20	#7	30'-9"	—
s ₂ (E)	56	#5	13'-11"	□
s ₃ (E)	20	#5	4'-4"	◁
u(E)	16	#6	11'-0"	□
v ₁ (E)	120	#8	5'-11"	—
v ₂ (E)	16	#5	7'-6"	—
v ₃ (E)	32	#5	10'-10"	—
Structure Excavation	CU YD		165	
Concrete Structures	CU YD		37.6	
Reinforcement Bars, Epoxy Coated	POUND		5,630	
Name Plates	EACH		1	
Furnishing Metal Shell Piles 14"x0.250"	FOOT		376	
Driving Piles	FOOT		376	
Test Pile Metal Shells	EACH		2	
Concrete Encasement	CU YD		4.3	

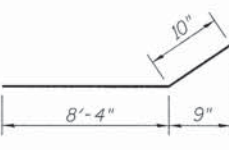
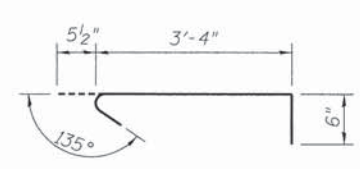
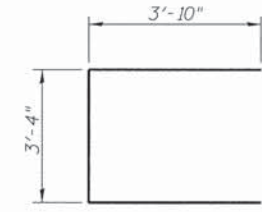
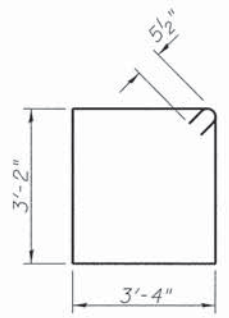
① See Special Provisions
 For details of Piles and Concrete Encasement,
 see sheet 17 of 21.



PILE DATA
 Type: Metal Shell 14"x0.250"
 Nominal Required Bearing: 416 kips
 Factored Resistance Available: 229 kips
 Est. Length: 47' S. Abutment
 47' N. Abutment
 No. Required: 10 (Includes 1 Test
 Pile at Each Abut.)



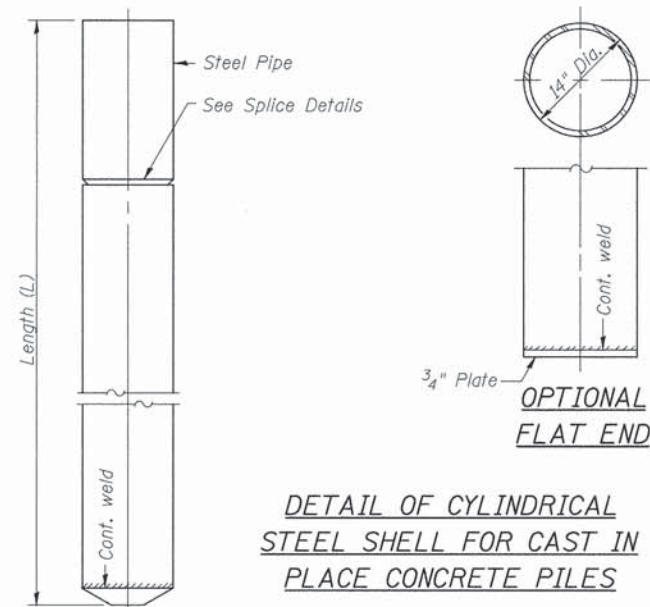
Order h₁(E) and v₃(E) full length. Cut as
 shown and use remainder of bars in opposite face.



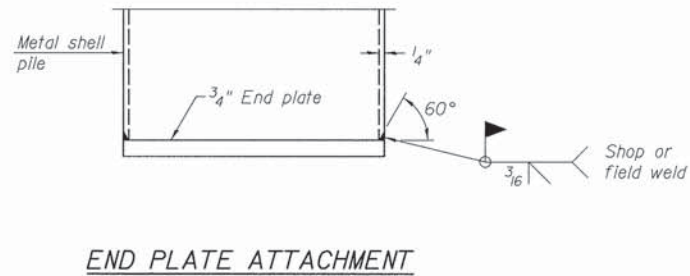
ABUTMENTS

SHEET NO. 16 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	22
S.N. 050-3610			CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)			

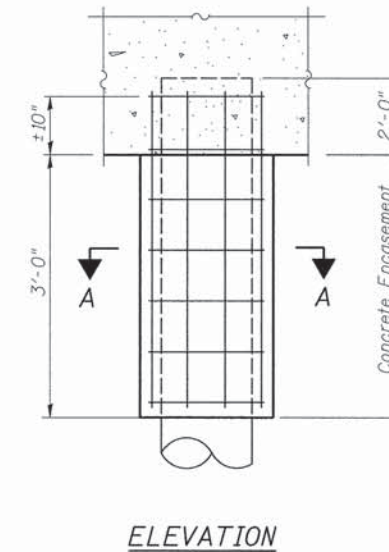
Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.



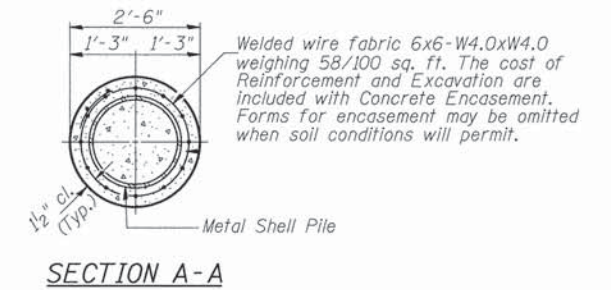
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



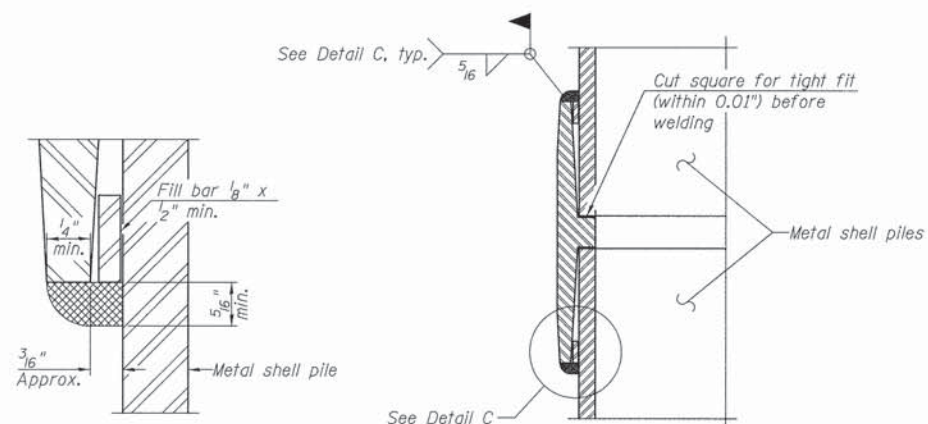
END PLATE ATTACHMENT



ELEVATION



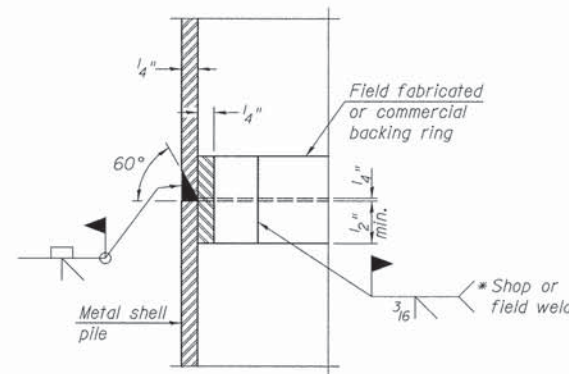
**SECTION A-A
DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS**



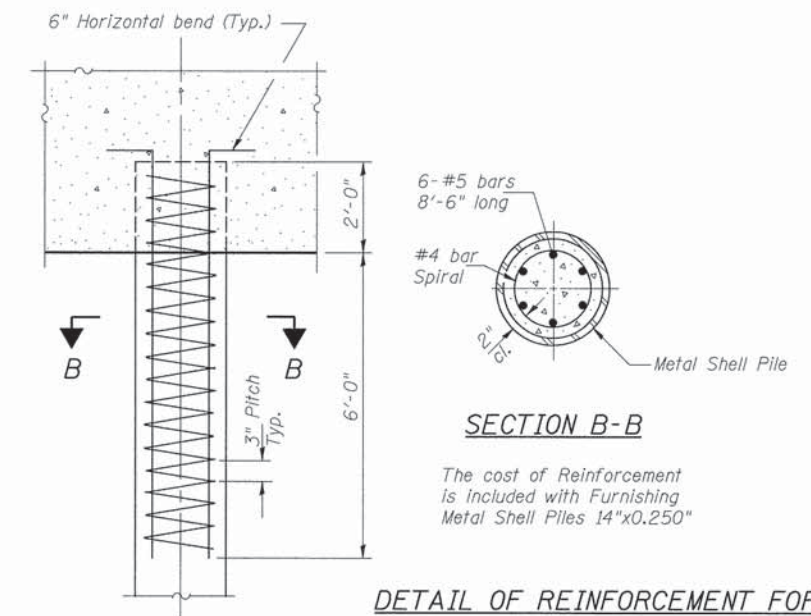
DETAIL C

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

WELDED COMMERCIAL SPLICE



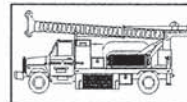
COMPLETE PENETRATION WELD SPLICE
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**SECTION B-B
DETAIL OF REINFORCEMENT FOR METAL SHELLS AT ABUTMENTS**

METAL SHELL PILE DETAILS

SHEET NO. 17 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	23
S.N. 050-3610			CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)			



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

BORING LOG

Sheet 1 of 4

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

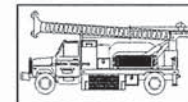
Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-1
Surface Elev. 646.20
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

Location: 7' Right of Station 19+65

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
646.20										Randy Safranski Diedrich D-120	
645.20	Stiff Brown Clay (Fill)		1								
644.20			2								
643.20			3	1	SS	1.8	10	B	18		
642.20			4								
641.20			5								
640.20	Stiff Black Silty Clay		6	2	SS	1.6	8	B	21		
639.20			7								
638.20			8	3	SS	1.0	5	B	26		
637.20			9								
636.20	Stiff Gray Clay		10	4	SS	1.4	8	B	25		
635.20			11								
634.20			12								
633.20			13	5	SS	1.6	9	B	22		
632.20			14								
631.20			15								
630.20			16	6	SS	1.6	9	B	23		
629.20	Very Stiff Brownish Gray Silty Clay Till		17								
628.20			18	7	SS	2.0	11	B	21		
627.20			19								
626.20	Very Stiff Gray Silty Clay Till		20	8	SS	2.2	11	B	21		

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:



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

BORING LOG

Sheet 2 of 4

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

Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-1
Surface Elev. 646.20
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

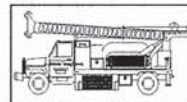
Location: 7' Right of Station 19+65

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
625.20										Randy Safranski Diedrich D-120	
624.20	Very Stiff Gray Silty Clay Till		22								
623.20			23	9	SS	2.5	15	B	18		
622.20			24								
621.20			25								
620.20			26	10	SS	3.1	17	B	16		
619.20			27								
618.20			28	11	SS	2.4	15	B	17		
617.20			29								
616.20			30								
615.20			31	12	SS	2.3	14	B	18		
614.20			32								
613.20			33	13	SS	2.6	16	B	18		
612.20			34								
611.20			35								
610.20			36	14	SS	2.9	15	B	17		
609.20		37									
608.20		38									
607.20		39									
606.20		40									
605.20		41	15	SS	3.1	17	B	15			

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:

SOIL BORING LOGS

SHEET NO. 18 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	24
	S.N. 050-3610			CONTRACT NO. 87558	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0268(113)		



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

BORING LOG

Sheet 3 of 4

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

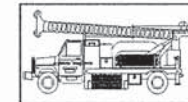
Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-1
Surface Elev. 646.20
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

Location: 7' Right of Station 19+65

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
604.20										Randy Safranski Diedrich D-120	
603.20			43								
602.20			44								
601.20	Very Stiff Gray Silty Clay Till		45	16	SS	3.5	19	B	---		
600.20			46								
599.20			47								
598.20			48								
597.20			49								
596.20			50								
595.20	Dense Brownish Gray Fine To Coarse Sand With Clay Seams		51	17	SS	---	30	---	---		
594.20			52								
593.20			53								
592.20			54								
591.20			55								
590.20			56	18	SS	---	35	---	---		
589.20			57								
588.20			58								
587.20			59								
586.20			60								
585.20			61	19	SS	---	35	---	---		
584.20			62								

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:



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

BORING LOG

Sheet 4 of 4

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

Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-1
Surface Elev. 646.20
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

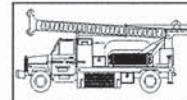
Location: 7' Right of Station 19+65

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
583.20										Randy Safranski Diedrich D-120	
582.20	Dense Brownish Gray Fine To Coarse Sand With Clay Seams		64								
581.20			65								
580.20			66	20	SS	---	37	---	---		
579.20			67								
578.20			68								
577.20			69								
576.20			70								
575.20			71								
574.20			72								
573.20			73								
572.20			74								
571.20			75								
570.20			76								
569.20			77								
568.20			78								
567.20			79								
566.20			80								
565.20			81								
564.20			82								
563.20			83								

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:

SOIL BORING LOGS

SHEET NO. 19	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	25
21 SHEETS	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		



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

BORING LOG

Sheet 1 of 4

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

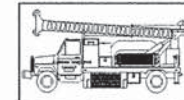
Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-2
Surface Elev. 646.10
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

Location: 7' Left of Station 20+35

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
646.10									Randy Safranski Diedrich D-120	
645.10	Stiff Brown Clay (Fill)		1							
644.10			2							
643.10			3	1	SS	1.7	12	S	14	
642.10	Stiff Black Silty Clay		4							
641.10			5	2	SS	1.5	7	B	23	
640.10	Stiff Brownish Gray Silty Clay		6							
639.10			7							
638.10			8	3	SS	1.1	6	B	20	
637.10	Stiff To Very Stiff Gray Clay		9							
636.10			10	4	SS	1.4	8	B	25	
635.10			11							
634.10	Very Stiff Gray Silty Clay Till		12							
633.10			13	5	SS	1.8	11	B	21	
632.10			14							
631.10			15	6	SS	2.0	11	B	21	
630.10			16							
629.10			17							
628.10			18	7	SS	1.9	10	B	23	
627.10			19							
626.10			20	8	SS	2.3	12	B	20	

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:



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

BORING LOG

Sheet 2 of 4

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

Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-2
Surface Elev. 646.10
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

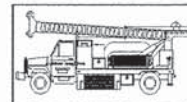
Location: 7' Left of Station 20+35

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		
625.10									Randy Safranski Diedrich D-120	
624.10	Very Stiff Gray Silty Clay Till		22							
623.10			23	9	SS	2.4	14	B	19	
622.10			24							
621.10			25							
620.10			26	10	SS	2.9	16	B	17	
619.10			27							
618.10			28	11	SS	2.5	14	B	17	
617.10			29							
616.10			30							
615.10			31	12	SS	2.5	13	B	18	
614.10			32							
613.10			33	13	SS	2.2	14	B	18	
612.10			34							
611.10			35							
610.10			36	14	SS	2.8	16	B	18	
609.10		37								
608.10		38								
607.10		39								
606.10		40								
605.10		41	15	SS	3.3	18	B	17		

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:

SOIL BORING LOGS

SHEET NO. 20 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	26
	S.N. 050-3610			CONTRACT NO. 87558	
	FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0268(113)	



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

BORING LOG

Sheet 3 of 4

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

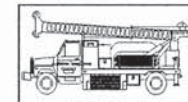
Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-2
Surface Elev. 646.10
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

Location: 7' Left of Station 20+35

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
604.10										Randy Safranski Diedrich D-120	
603.10	Very Stiff Gray Silty Clay Till		43								
602.10			44								
601.10			45	16	SS	2.7	18	B	17		
600.10			46								
599.10	Medium To Dense Brownish Gray Fine To Coarse Sand With Clay Seams		47								
598.10			48								
597.10			49								
596.10			50								
595.10			51	17	SS	---	26	---	---		
594.10			52								
593.10			53								
592.10			54								
591.10			55	18	SS	---	31	---	---		
590.10			56								
589.10			57								
588.10			58								
587.10			59								
586.10			60	19	SS	---	36	---	---		
585.10			61								
584.10			62								

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:



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

BORING LOG

Sheet 4 of 4

Phone: 815-223-6696
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Client: Hutchison Engineering, Inc.
Project Name: Section 14-00728-00-BR
Project Site: CH - 15 Over Covell Creek
LaSalle County, IL.

Boring No. B-2
Surface Elev. 646.10
Auger Depth 66' Rotary Depth NA
Start Date 06/29/13 Finish Date 06/29/13

Location: 7' Left of Station 20+35

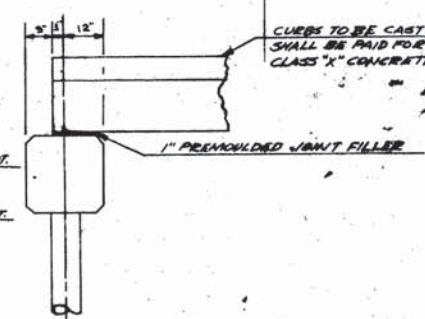
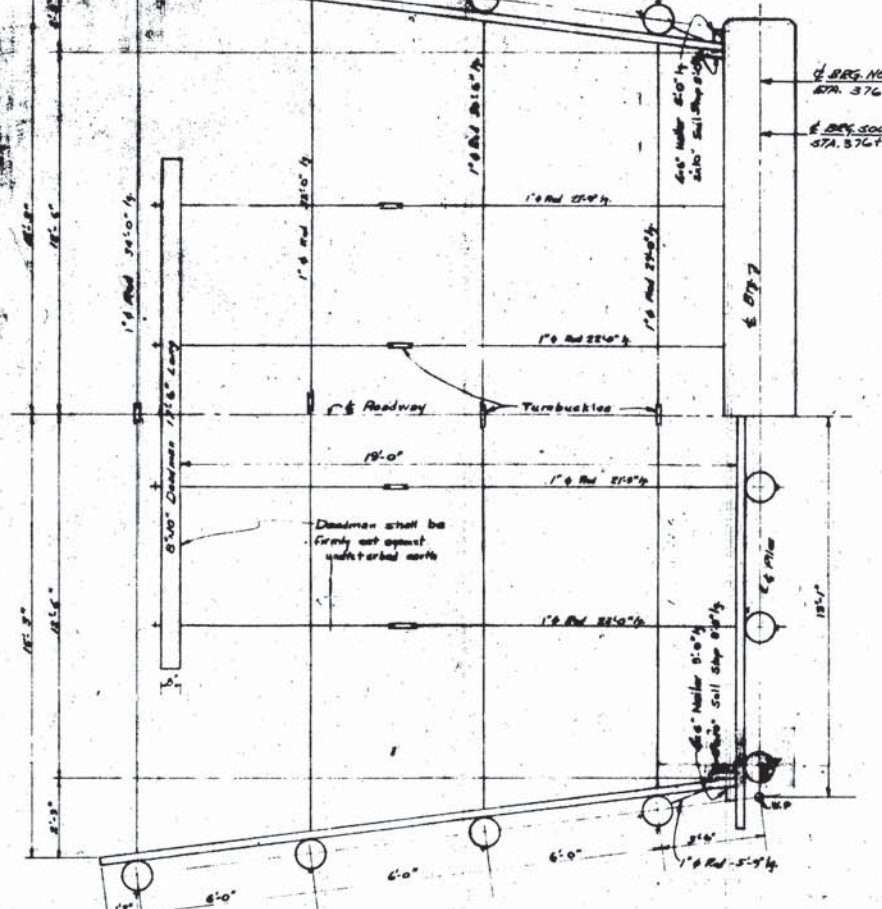
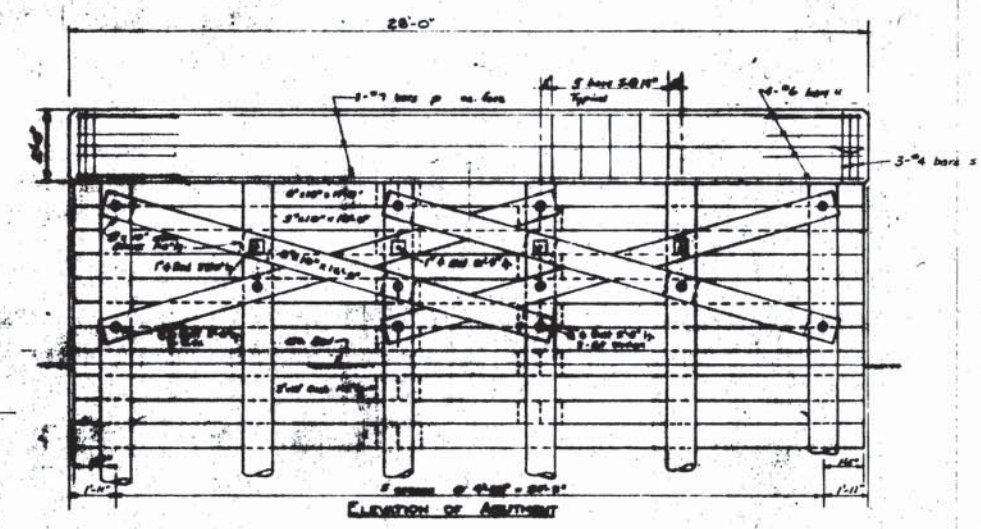
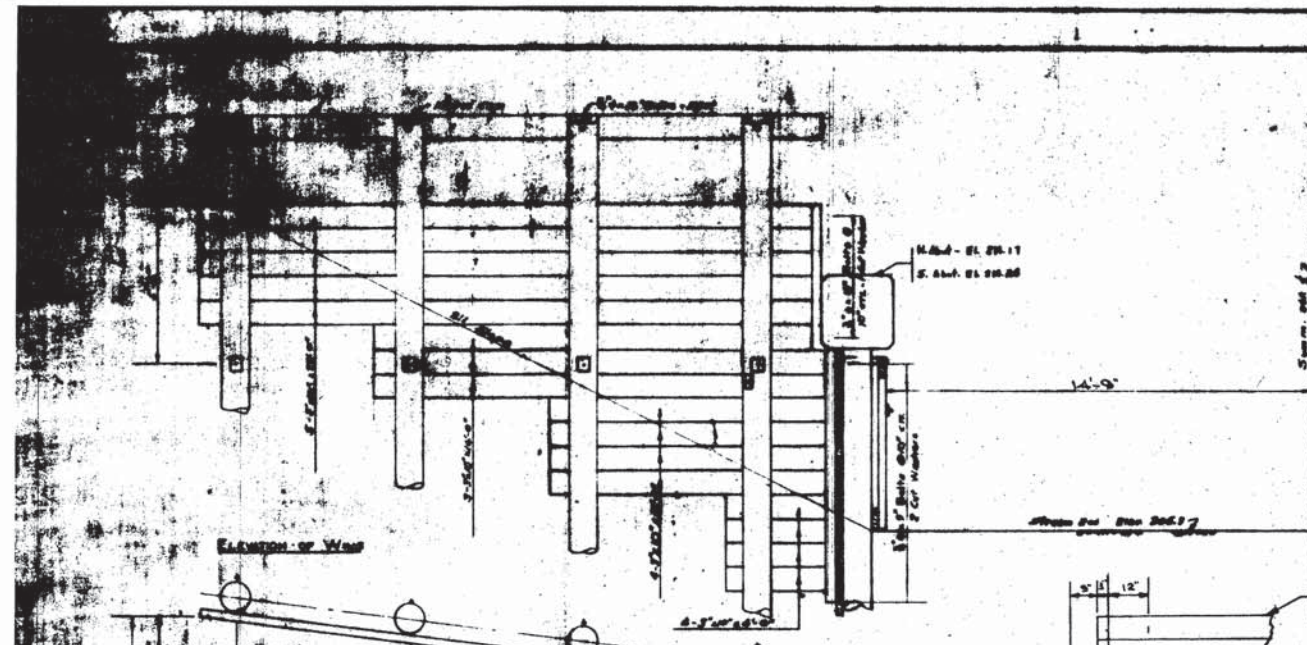
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
583.10										Randy Safranski Diedrich D-120	
582.10	Dense Brownish Gray Fine To Coarse Sand With Clay Seams		64								
581.10			65	20	SS	---	44	---	---		
580.10			66								
579.10			67								
578.10			68								
577.10			69								
576.10			70								
575.10			71								
574.10			72								
573.10			73								
572.10			74								
571.10			75								
570.10			76								
569.10			77								
568.10			78								
567.10			79								
566.10			80								
565.10			81								
564.10			82								
563.10			83								

Groundwater Data: Static water level after auger removal - elevation 621.0
Comments:

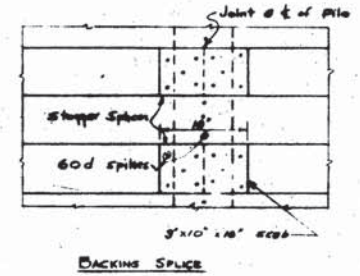
SOIL BORING LOGS

SHEET NO. 21 21 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	27
	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		

5B	LA SALLE	27	17
----	----------	----	----



PILE DATA
 Abutment Piles
 20 Ton Capacity
 12 Required
 Est. Length 26'
 Wing Piles
 10 Ton Capacity
 16 Required
 Est. Length 20'



NOTE: All tie rods shall be threaded 3/8" dia and provided with a 3/4" x 1/2" x 6" nut.
 All hardware shall be hot dipped galvanized steel and shall be galvanized after fabrication. 0.2% copper bearing steel may be substituted for galvanized steel. The Contractor shall cut off 1/2" from exposure of rods projecting more than 1" beyond nut.

LETTERING FOR NAME PLATE:

STA. 376+87
 BUILT 1987 BY
 LASALLE COUNTY
 SECTION 719X-MRT.
 LOADING H15-S12
 CS-302-L

WATER WAY INFORMATION
 DRAINAGE AREA 8800 ACRES
 CHARACTER ROLLING TO LEVEL
 OPENING DESIGN FORMULA 198 SQ. FT.
 PRESENT OPENING 179 SQ. FT.
 OPENING PROVIDED (15-YEAR FLOOD) 200 SQ. FT.
 ASSUMED "C" 0.40

BILL OF MATERIALS - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
1				
2	12	07	27'-0"	
3	62	04	9'-0"	
4	16	06	9'-0"	

PRECAST CONCRETE ABUTMENT

CAPS EACH 2

Treated Timber RBM 4773
 Driving Timber Pile LSP 760
 Steel Pin EA 1
 Turnbuckle LSP 1070
 Factory Coated Pile 2x12' LSP 760

BILL OF HARDWARE

No.	Item	Quantity
2	1" Rod	20
3	"	20
4	"	20
5	"	20
6	"	20
7	"	20
8	"	20
9	"	20
10	"	20
11	"	20
12	"	20
13	"	20
14	"	20
15	"	20
16	"	20
17	"	20
18	"	20
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93	"	20
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97	"	20
98	"	20
99	"	20
100	"	20

BILL OF LUMBER

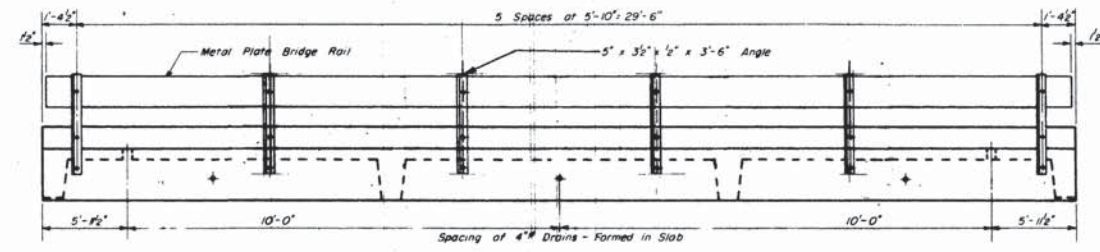
Creosoted (Full Edge Rough)

No.	Use	Size	Length
22	Abut Backing	5x10'	16'-0"
23	"	"	11'-0"
24	Bracing	"	16'-0"
25	Backing Splice	"	1'-6"
26	Backing Shim	"	1'-0"
27	Wing Backing	"	22'-0"
28	"	"	16'-0"
29	"	"	10'-0"
30	"	"	6'-0"
31	Ball Stop	"	5'-0"
32	"	"	5'-0"
33	Nutler	2x6	5'-0"
34	"	"	9'-0"
35	Deadman	8x10'	17'-6"
36	Vertical Stud	"	"
37	"	"	22'-0"

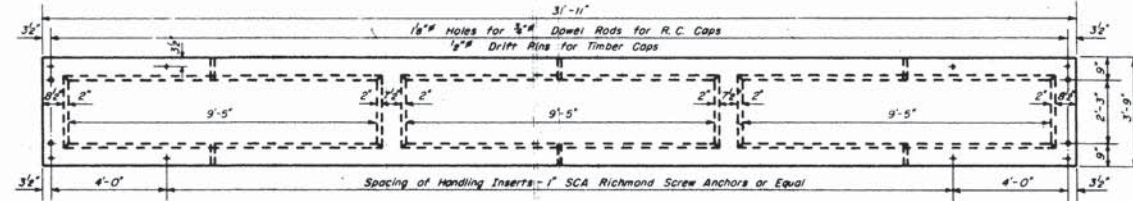
LA SALLE COUNTY
 SEC. 71-9X MFT
 COUNTY HIGHWAY 5-B
 STA. 376+87

EXISTING STRUCTURE PLANS

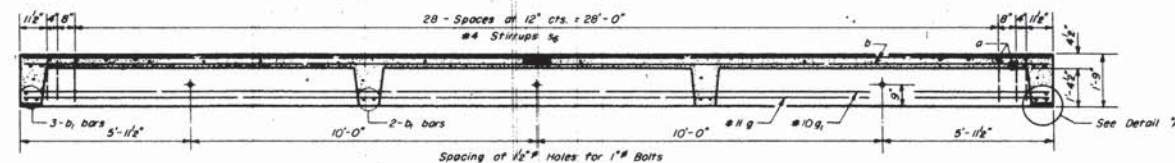
SHEET NO. 1 3 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	28
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)		



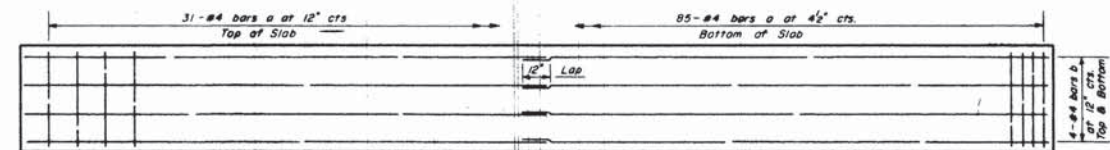
ELEVATION



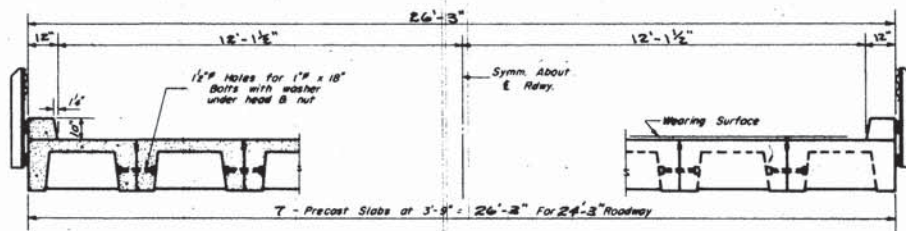
PLAN



SECTION ALONG E OF BEAM



PLAN SHOWING SLAB REINFORCEMENT



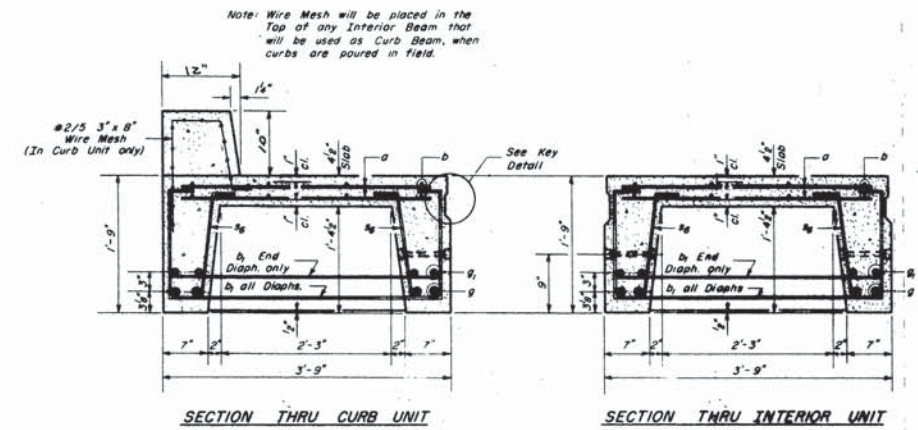
HALF SECTION

HALF END ELEVATION

NOTE: WEARING SURFACE TO BE APPLIED BY COUNTY

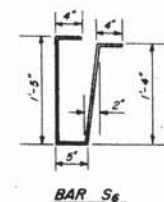
DESIGN STRESSES
 P_c = 4500 psi.
 f_c = 1800 psi.
 f_s = 20,000 psi.
 n = 8

LOADING H15-S12-44



SECTION THRU CURB UNIT

SECTION THRU INTERIOR UNIT



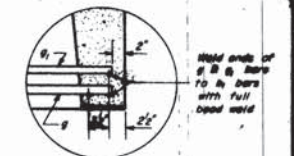
BAR S_e

BILL OF MATERIAL

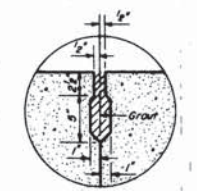
Bar	Size	No.	Length	Weight
a	#4	116	3'-3"	252
b	#4	16	16'-4"	175
b ₁	#4	10	3'-6"	83
g	#11	4	31'-7"	671
h	#10	4	31'-7"	544
g ₂	#4	66	3'-10"	170
Class X Concrete				Cu. Yd. 4.2
Reinforcement Bars				Lbs. 2035
Total Weight of Beam				Lbs. 16,960

Reinforcing and Concrete for Curbs not included in above Bill of Material.

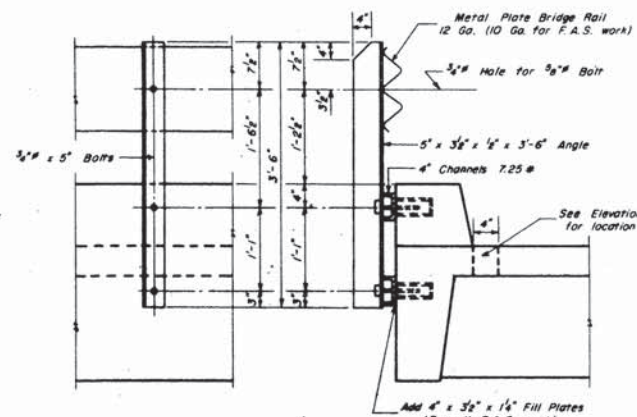
Note: Wearing Surface to be provided with a maximum of 1 1/2" thickness.



DETAIL "A"



KEY DETAIL

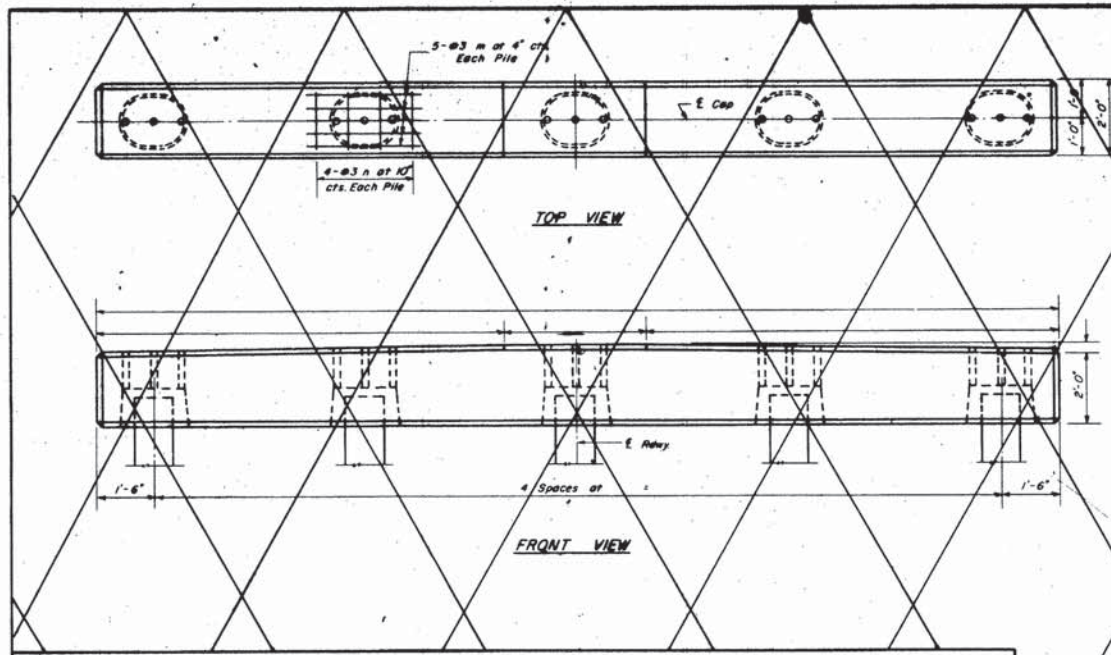


RAIL POST CONNECTION DETAIL

PRECAST CONCRETE SLAB BRIDGE USING 32 FT. BEAMS
LASALLE COUNTY
SEC. 71GX M.F.T.
C.H. 5-B
STA. 376+87

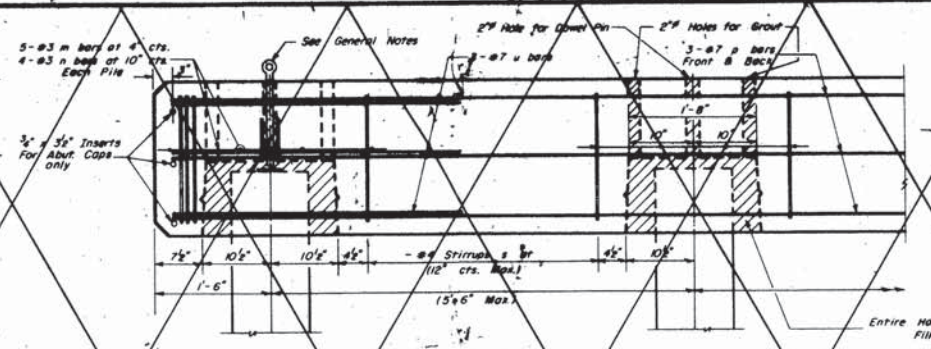
EXISTING STRUCTURE PLANS

SHEET NO. 2 3 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 15	14-00728-00-BR	LASALLE	37	29
	S.N. 050-3610		CONTRACT NO. 87558		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0268(113)		

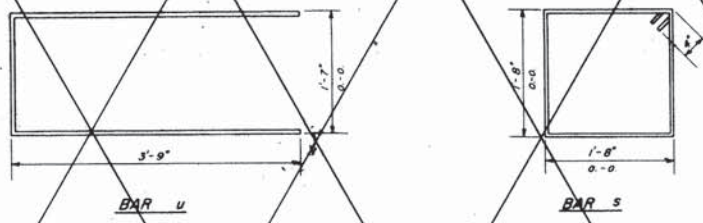


TOP VIEW

FRONT VIEW



DETAIL OF REINFORCEMENT



BAR U

BAR S

DESIGN STRESSES

$f_c = 1800$ psi.
 $f_c = 4500$ psi.
 $f_s = 20,000$ psi.
 $n = 8$

BILL OF MATERIAL

Bar	Size	No.	Length	Shape
m	#3	20	3'-0"	—
n	#3	24	1'-6"	—
p	#7	6	27'-6"	—
s	#4	3	7'-6"	—
u	#7	6	9'-7"	—
Concrete		Cu. Yds.	3.7	
Reinforcement Bars		Lbs.	6500	
Total Weight of Cap		Lbs.	15,030	

GENERAL NOTES

Precast Concrete Caps are for use with the 12', 16', 20', 24', 28', 30' & 40' Precast Slabs and 12" Timber or 14" Precast Concrete Piling.

Crowns will be added to the Precast Caps to provide a 1" Rise to the E of Roadway for bridges with 20'-3" Roadway or 1/4" Rise to a point 1'-10 1/2" from E of Roadway for bridges with 24'-0" Roadway, 13'-9" Level at center.

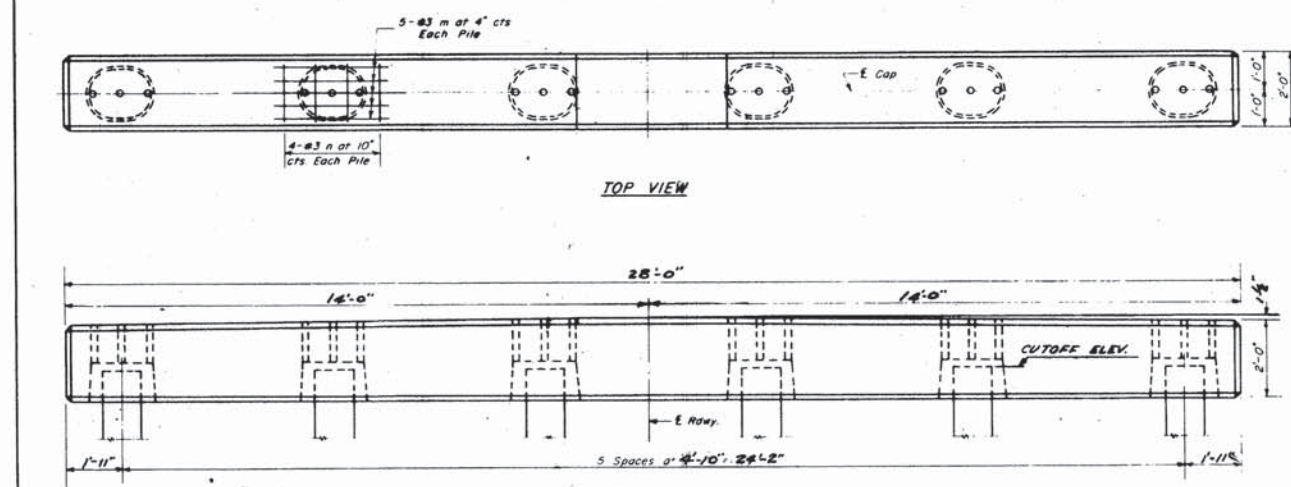
Lengths available: 24', 28', 32' & 36'.

Inserts are Richmond Screw Eye Anchor 1" Helical Spring. Plate is 2" x 2" x 1/4". Hole in plate to be reamed slightly to reduce friction. Plate is tacked to piling only. Inserts to be placed at each outside pile and at center. Dowel holes to be provided for Standard Precast Bridge Slabs.

Grout Mixture provided consists of:
 Sand ----- 1 Part
 Cement ----- 1 Part
 Chps. pea gravel - 1/2 Part
 (Water for 1" Slump)
 Grout Mixture vibrated in place.

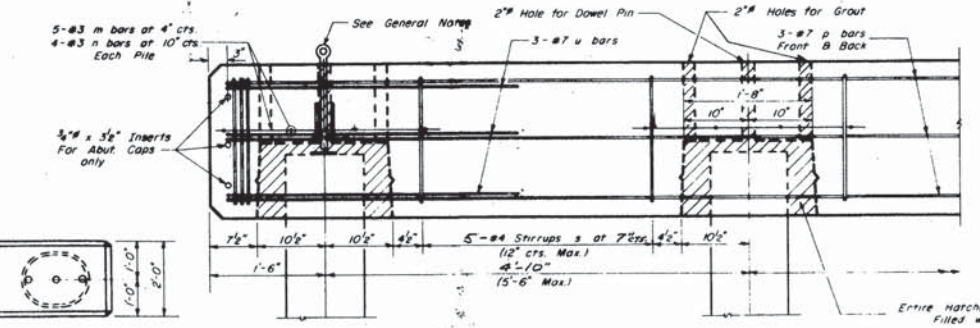
Dowel Holes for Abutment Caps on E of Cap.

5 PILE - PRECAST CAP DETAILS

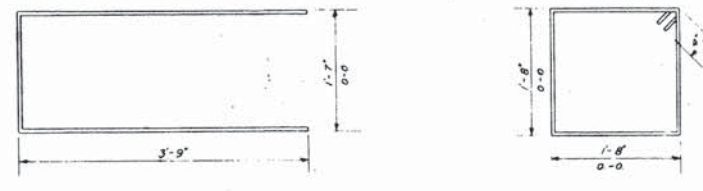


TOP VIEW

FRONT VIEW



DETAIL OF REINFORCEMENT



BAR U

BAR S

DESIGN STRESSES

$f_c = 1800$ psi.
 $f_c = 4500$ psi.
 $f_s = 20,000$ psi.
 $n = 8$

BILL OF MATERIAL

Bar	Size	No.	Length	Shape
m	#3	30	3'-0"	—
n	#3	24	1'-6"	—
p	#7	6	27'-6"	—
s	#4	3	7'-6"	—
u	#7	6	9'-7"	—
Concrete		Cu. Yds.	3.7	
Reinforcement Bars		Lbs.	6500	
Total Weight of Cap		Lbs.	15,030	

6 PILE - PRECAST CAP DETAILS

PAGE XII

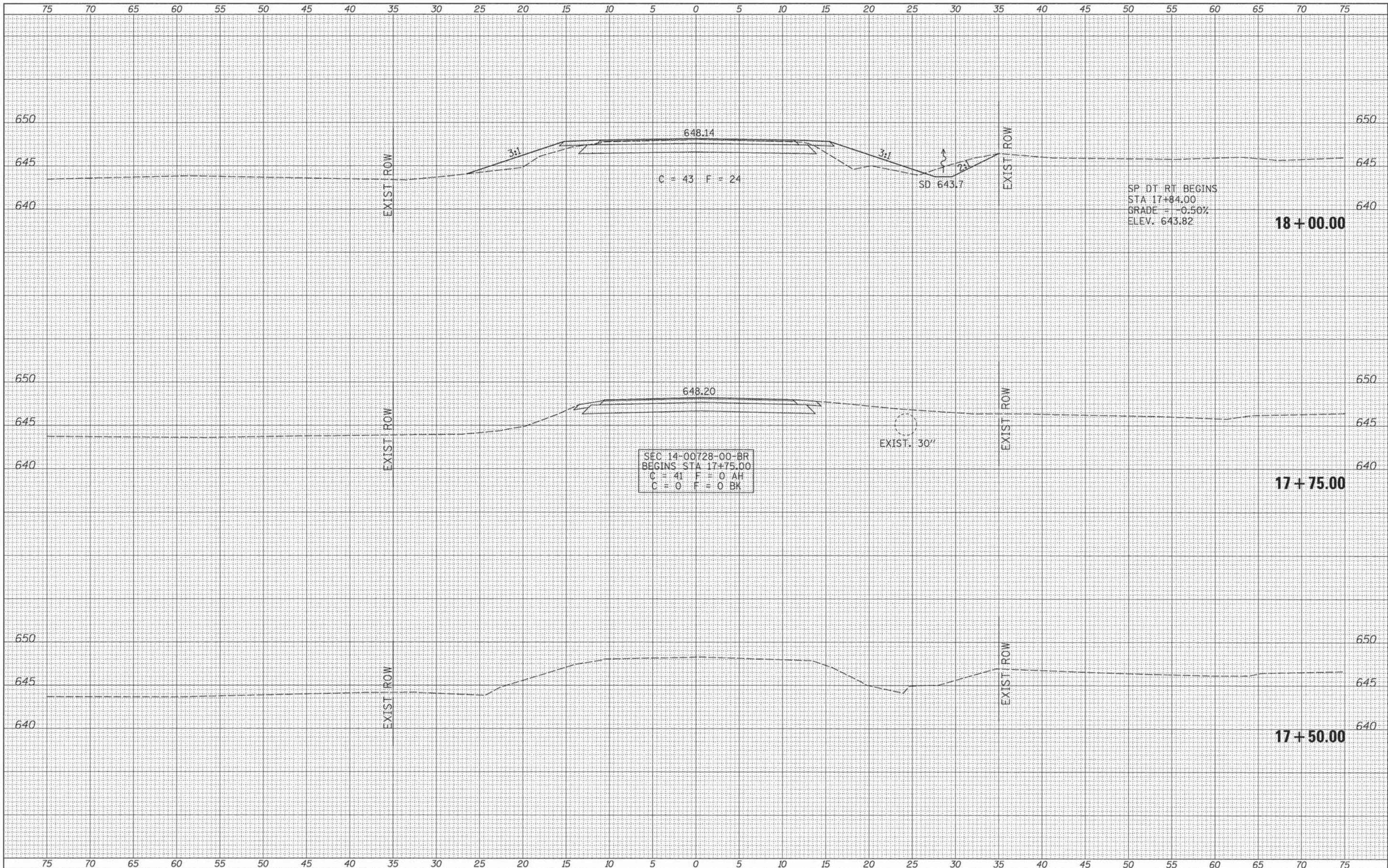
REV. 8-5-58

EXISTING STRUCTURE PLANS

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	CH 15	14-00728-00-BR	LASALLE	37	30
	S.N. 050-3610		CONTRACT NO. 87558		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0268(113)			

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SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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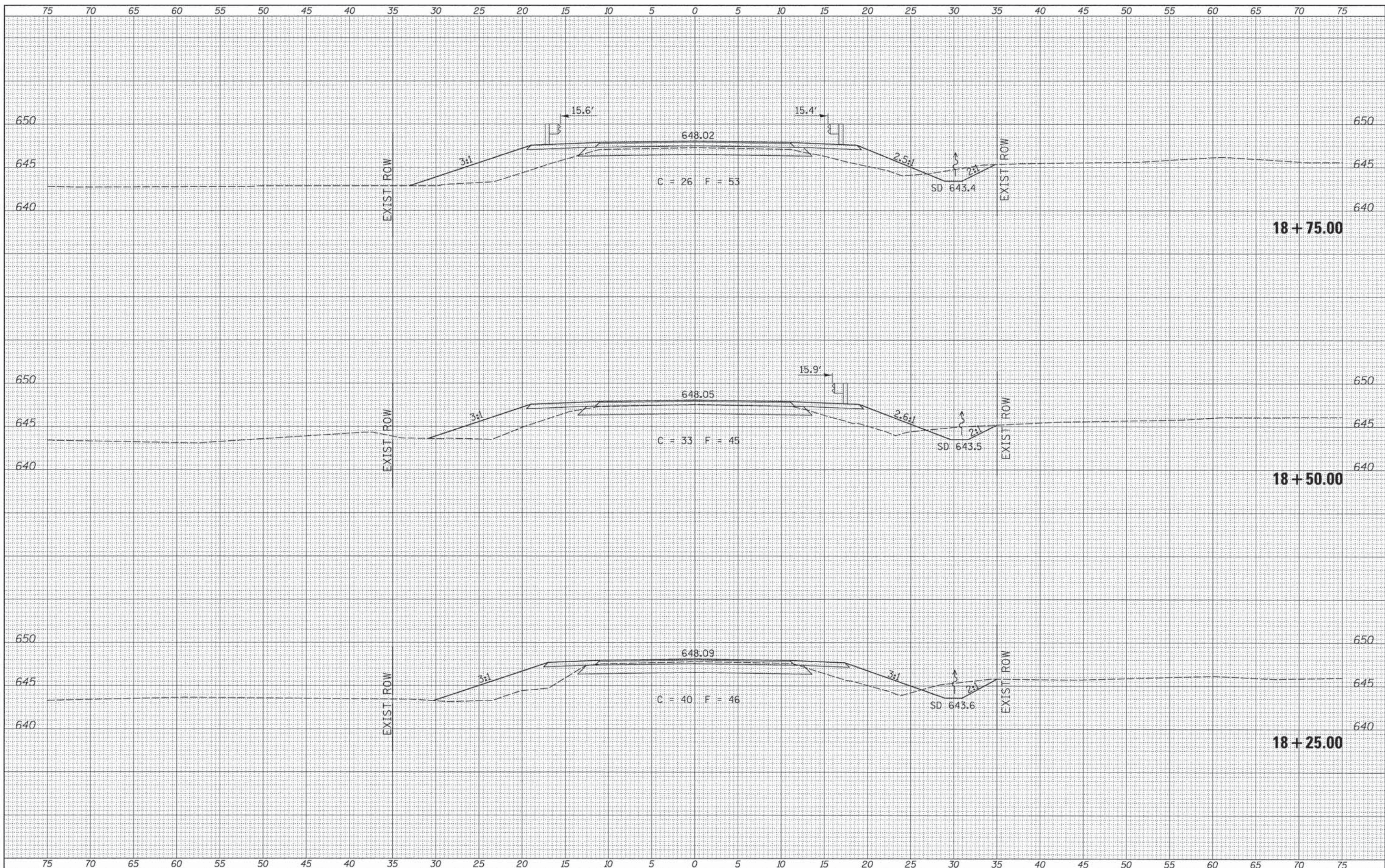
**LASALLE COUNTY
 COUNTY HIGHWAY 15
 OVER COVEL CREEK**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 1 OF 7 SHEETS
 STA. 17+50.00 TO STA. 18+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	31
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(13)	

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NOTE BOOK	
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NOTE BOOK	
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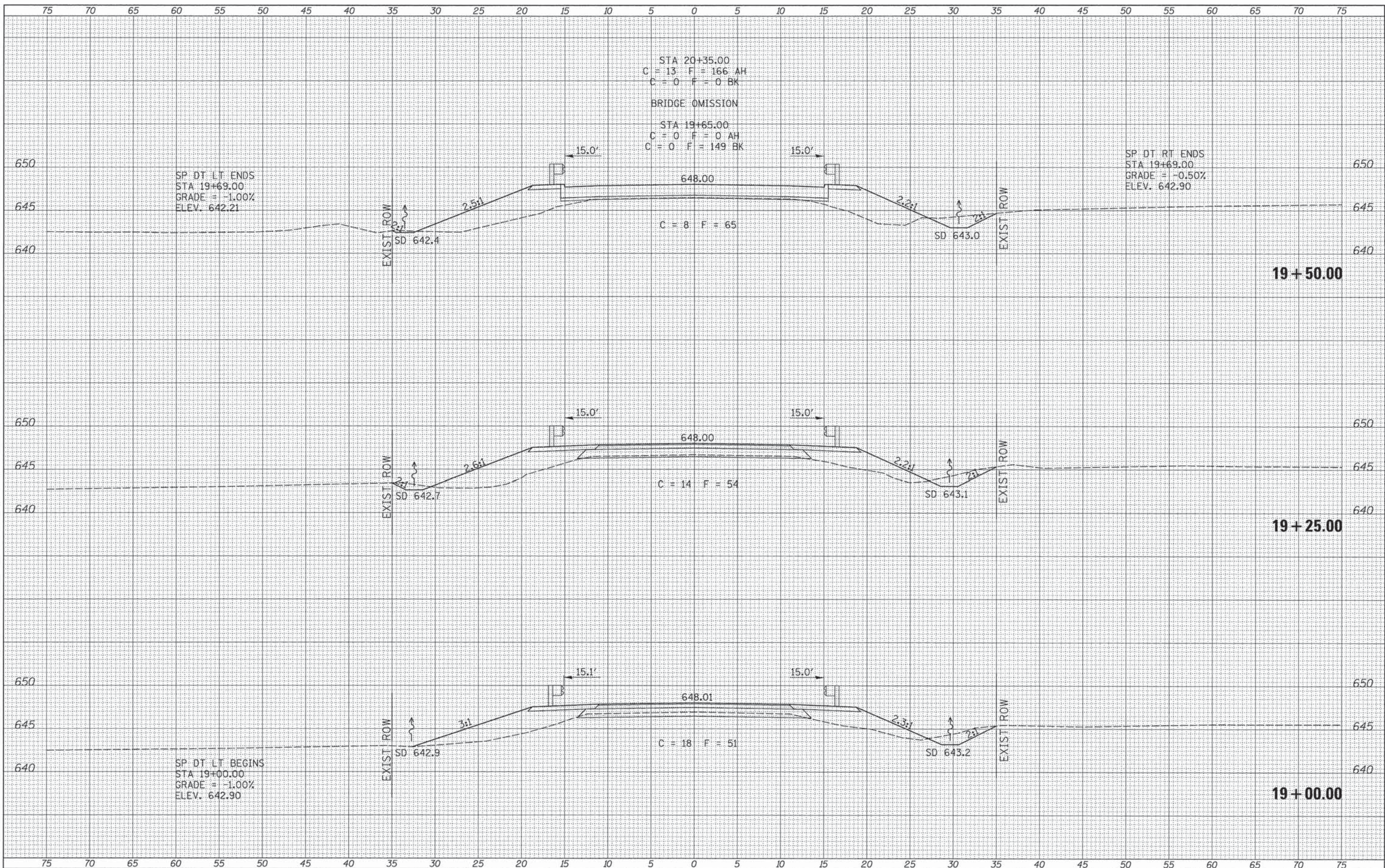
**LASALLE COUNTY
 COUNTY HIGHWAY 15
 OVER COVELL CREEK**

CROSS SECTIONS
 SCALE: 1"=5' SHEET 2 OF 7 SHEETS STA. 18+25.00 TO STA. 18+75.00

F.A.S. RTE. 268	SECTION 14-00728-00-BR	COUNTY LASALLE	TOTAL SHEETS 37	SHEET NO. 32
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0268(113)	

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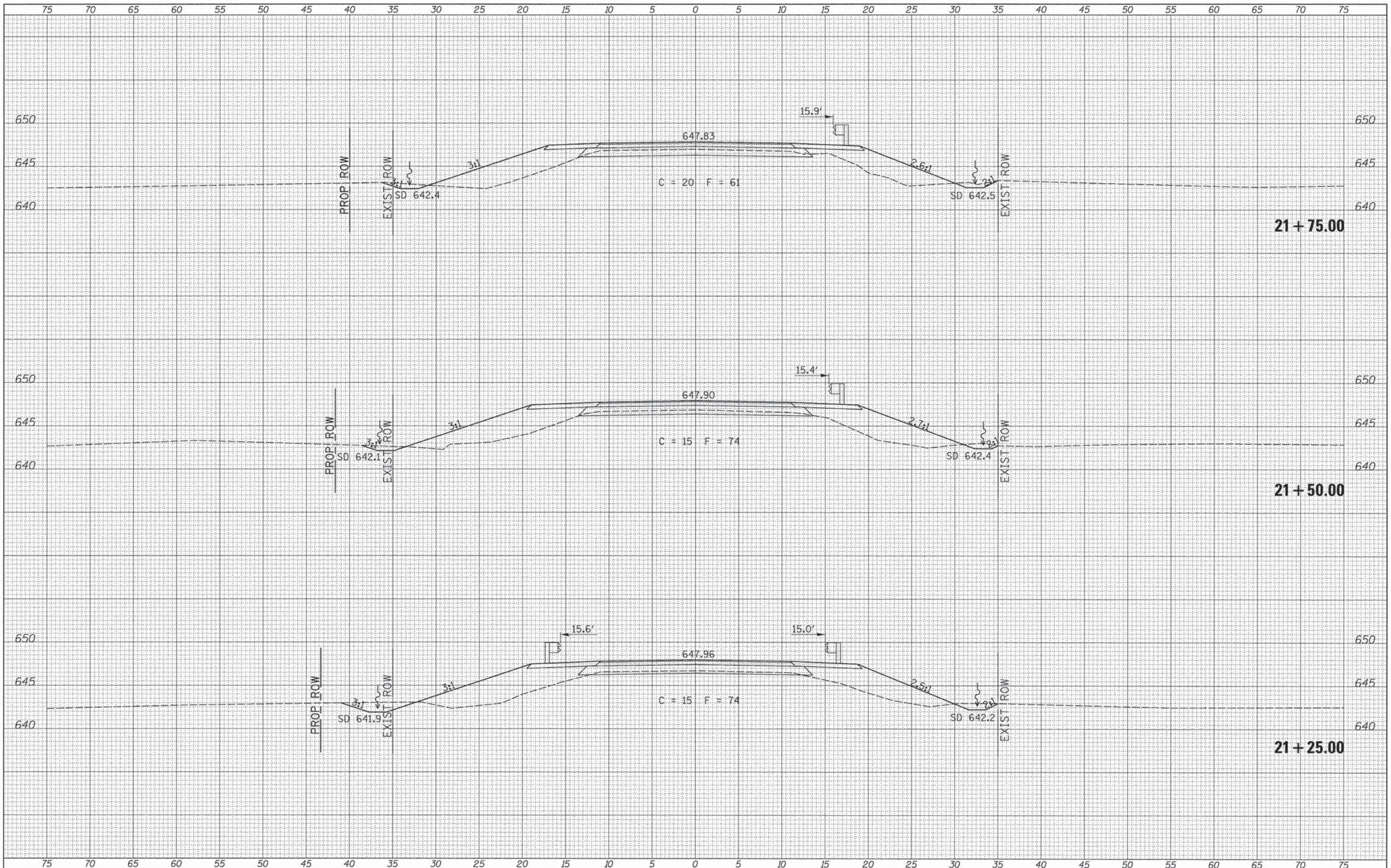
**LASALLE COUNTY
 COUNTY HIGHWAY 15
 OVER COVEL CREEK**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 3 OF 7 SHEETS STA. 19+00.00 TO STA. 19+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
268	14-00728-00-BR	LASALLE	37	33
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87558	
FED. AID PROJECT BRS-0268(13)				

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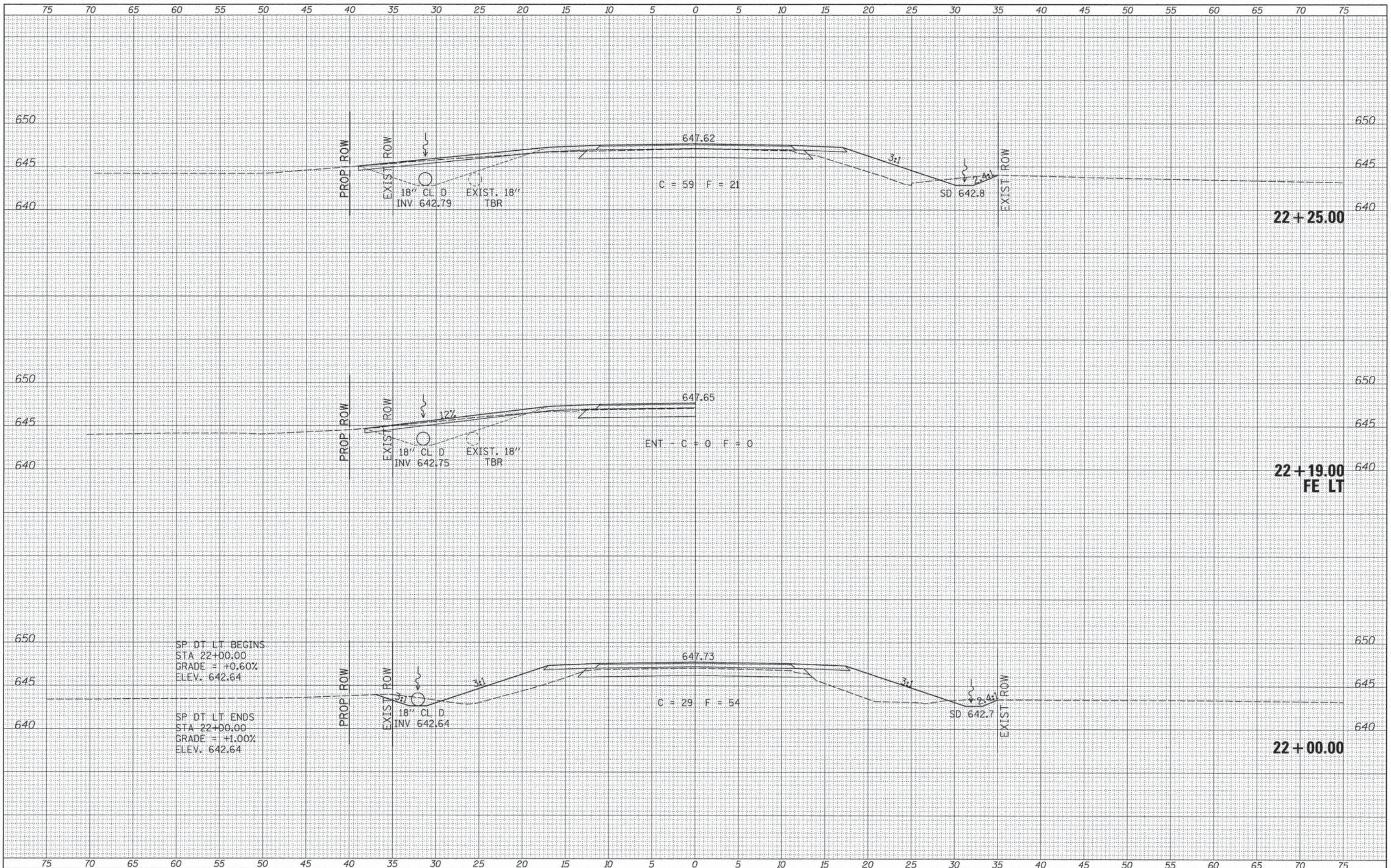
**LASALLE COUNTY
 COUNTY HIGHWAY 15
 OVER COVEL CREEK**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 5 OF 7 SHEETS STA. 21+25.00 TO STA. 21+75.00

F.A.S. RTE. 268	SECTION 14-00728-00-BR	COUNTY LASALLE	TOTAL SHEETS 37	SHEET NO. 35
FED. ROAD DIST. NO. 7 [ILLINOIS]			FED. AID PROJECT BRS-0268(13)	

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NOTE BOOK	
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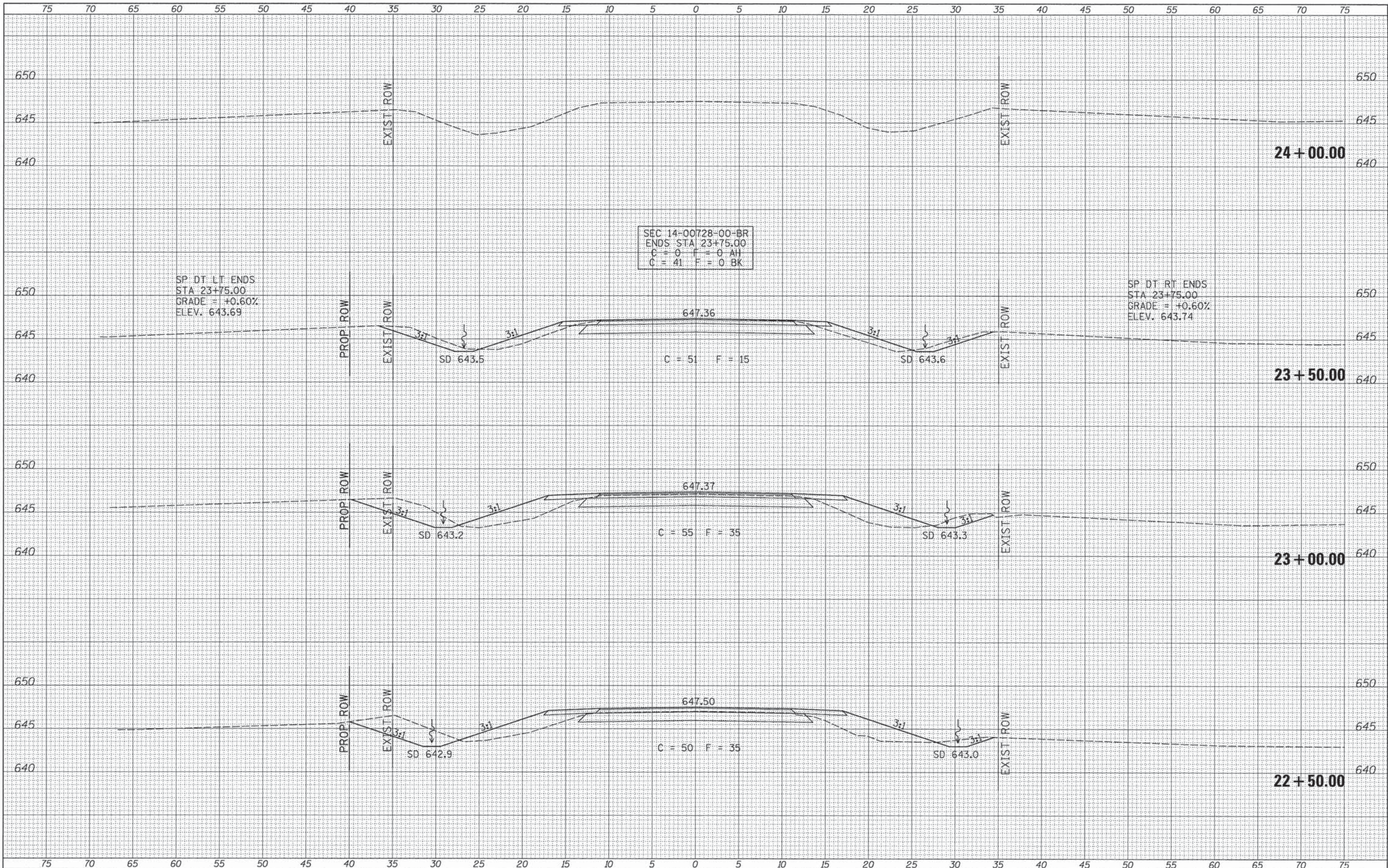
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 STA 22+00.00
 GRADE = +0.60%
 ELEV. 642.64

SP DT LT ENDS
 STA 22+00.00
 GRADE = +1.00%
 ELEV. 642.64

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PLOT DATE = 10/18/2013	DATE -	REVISED -	FED. ROAD DIST. NO. 7 ILLINOIS							
Default			FED. AID PROJECT BRS-0268(113)							

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PLOT DATE = 10/18/2013	CHECKED -	REVISED -
	DATE -	REVISED -

**LASALLE COUNTY
 COUNTY HIGHWAY 15
 OVER COVEL CREEK**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 7 OF 7 SHEETS
 STA. 22+50.00 TO STA. 24+00.00

F.A.S. RTE. 268	SECTION 14-00728-00-BR	COUNTY LASALLE	TOTAL SHEETS 37	SHEET NO. 37
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87558	
			FED. AID PROJECT BRS-0268(13)	