

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

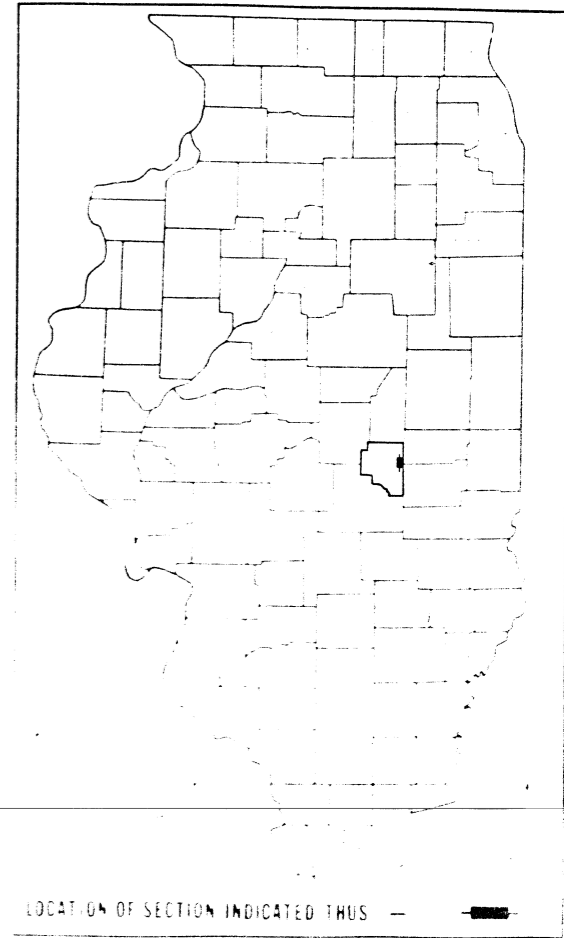
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

ROUTE	SECTION	COUNTY	TOTAL SHEETS
659	8BR	*	22
* MOULTRIE			P-95-002-19

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	TYPICAL CROSS SECTIONS
3.	SUMMARY OF QUANTITIES, GENERAL NOTES
4.	SOIL BORINGS
5.	PLAN & PROFILE
6.	QUANTITIES & PROFILE DETAILS
7.	SPECIAL DETAILS
8. - 9.	BRIDGE APPROACH DETAILS
10. - 17.	STRUCTURE PLANS
18. - 22.	CROSS SECTIONS

SCALES { PLAN 1"=50'
 PROFILE HOR 1"=50'
 PROFILE VERT 1"=5'
 CROSS SECTIONS 1"=5' VERT., 1"=10' HORIZ.



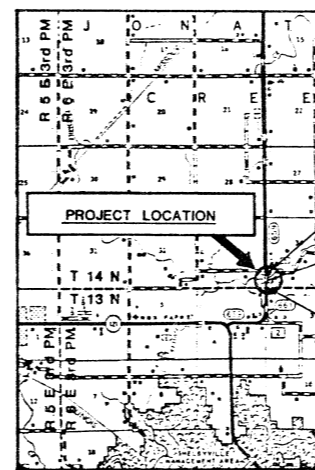
F. A. S. ROUTE 659 (CADWELL ROAD)
 SECTION 8 BR
 PROJECT ACBRS-659 (105)
 MOULTRIE COUNTY
 C-95-002-88
 BRIDGE REPLACEMENT

STANDARDS

STD. NO.	DESCRIPTION
1686-4	SYMBOLS & ABBREVIATIONS
2113 - 2	NAMEPLATE FOR BRIDGES
2135	PERMANENT SURVEY MARKERS (BRONZE TABLET)
2228 - 4	METAL END SECTION FOR PIPE CULVERTS
2230 - 14	STEEL PLATE BEAM GUARD RAIL (2 SHEETS)
2298 - 7	TRAFFIC CONTROL (2 SHEETS)
2299 - 10	TRAFFIC CONTROL
2300 - 3	FLAGMAN TRAFFIC CONTROL SIGN
2302 - 5	TYPICAL APPLICATION TRAFFIC CONTROL
2303 - 6	TYPICAL APPLICATION TRAFFIC CONTROL
2305 - 5	TYPICAL APPLICATION TRAFFIC CONTROL
2306 - 6	TYPICAL APPLICATION TRAFFIC CONTROL
2307 - 6	TYPICAL APPLICATION TRAFFIC CONTROL
2308 - 4	TYPICAL APPLICATION TRAFFIC CONTROL (2 SHEETS)
2323 - 8	PAVEMENT JOINTS
2324 - 6	BRIDGE APPROACH SHOULDER PAVEMENT
2336 - 4	TRAFFIC BARRIER TERMINAL TYPE 1 & 1A
2341 - 1	TRAFFIC BARRIER TERMINAL TYPE 6
2381	TEMPORARY EROSION CONTROL SYSTEMS

DESIGN DESIGNATION

1750 (06) MAJOR COLLECTOR



SECTION 8 BR / PROJ. ACBRS-659 (105)
 END SECTION STA. 69+05

SPECIAL BRIDGE DESIGN —
 SINGLE SPAN, REINFORCED CONCRETE DECK
 ON STEEL I-BEAMS AND PILE BENT ABUTMENTS
 63'-5" BACK TO BACK OF ABUTMENTS
 32'-0" HORIZONTAL CLEARANCE, 15° SKEW

SECTION 8 BR / PROJ. ACBRS-659 (105)
 BEGIN SECTION STA. 63+20

LOCATION MAP

NET LENGTH OF SECTION = 585 FEET = 0.111 MILES
 NET LENGTH OF PROJECT = 585 FEET = 0.111 MILES

TOLL FREE "JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS" (J.U.L.I.E.) TELEPHONE NUMBER 1-800-892-0123

JONATHAN CREEK TOWNSHIP

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED _____ DATE 10-26-87

APPROVED _____ DATE 10-26-87

APPROVED _____ DATE 10-26-87

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

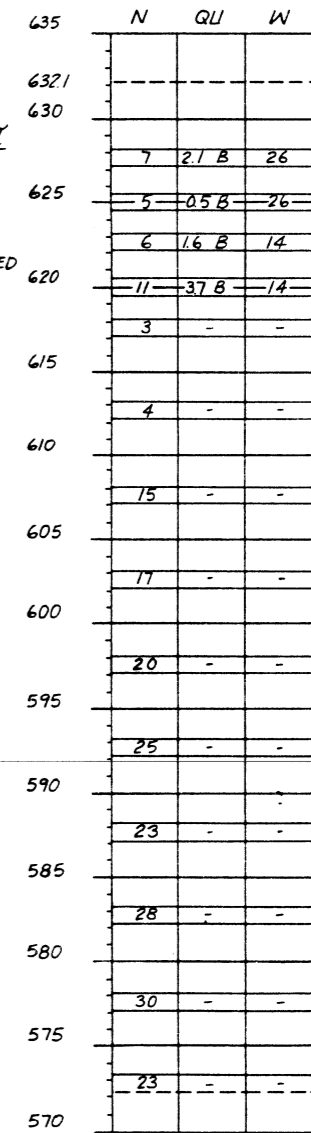
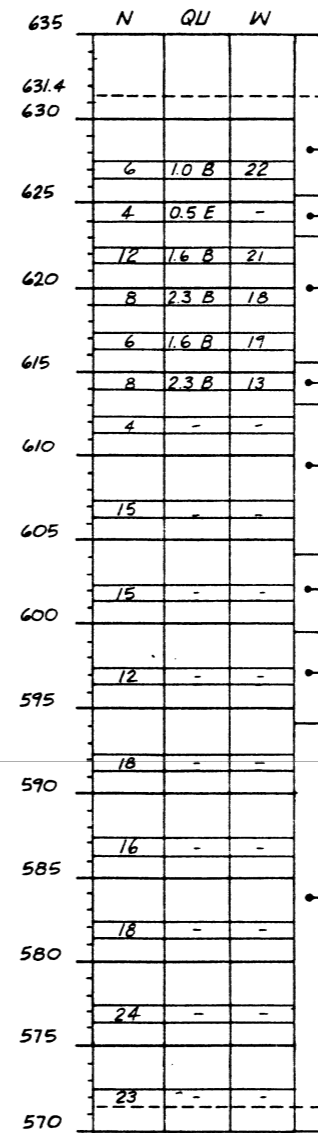
APPROVED _____ DATE _____

DIVISION ENGINEER

James B. Upchurch
 JAMES B. UPCHURCH
 professional engineer

CONTRACT NO. 42889

070-0045



SOIL BORING #1
STA. 65+90 14'LT.

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon 12" with 140 LB. hammer falling 30".

W - Water Content - percentage of oven dry weight - %

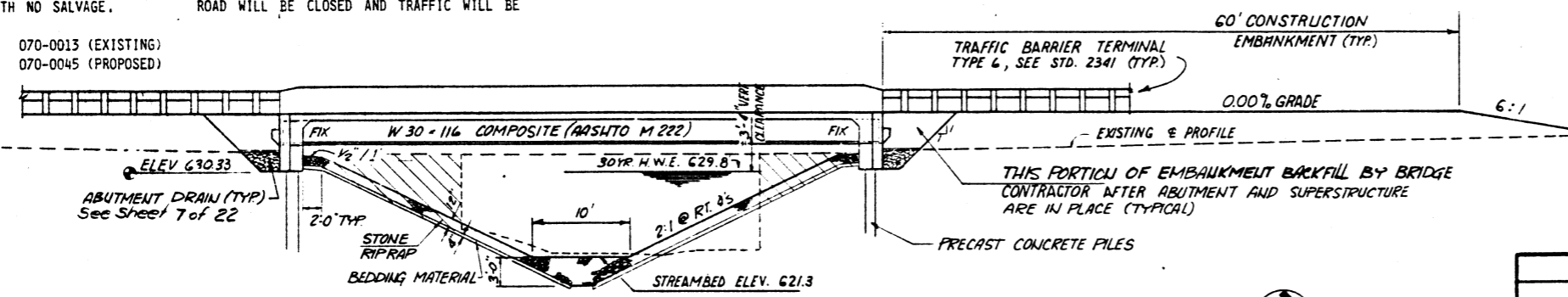
Type failure:
B - Bulge Failure
S - Shear Failure
E - Estimated Value
P - Penetrometer
Qu - Unconfined Compressive Strength - t/sf

SOIL BORING #2
STA. 65+30 15'LT.

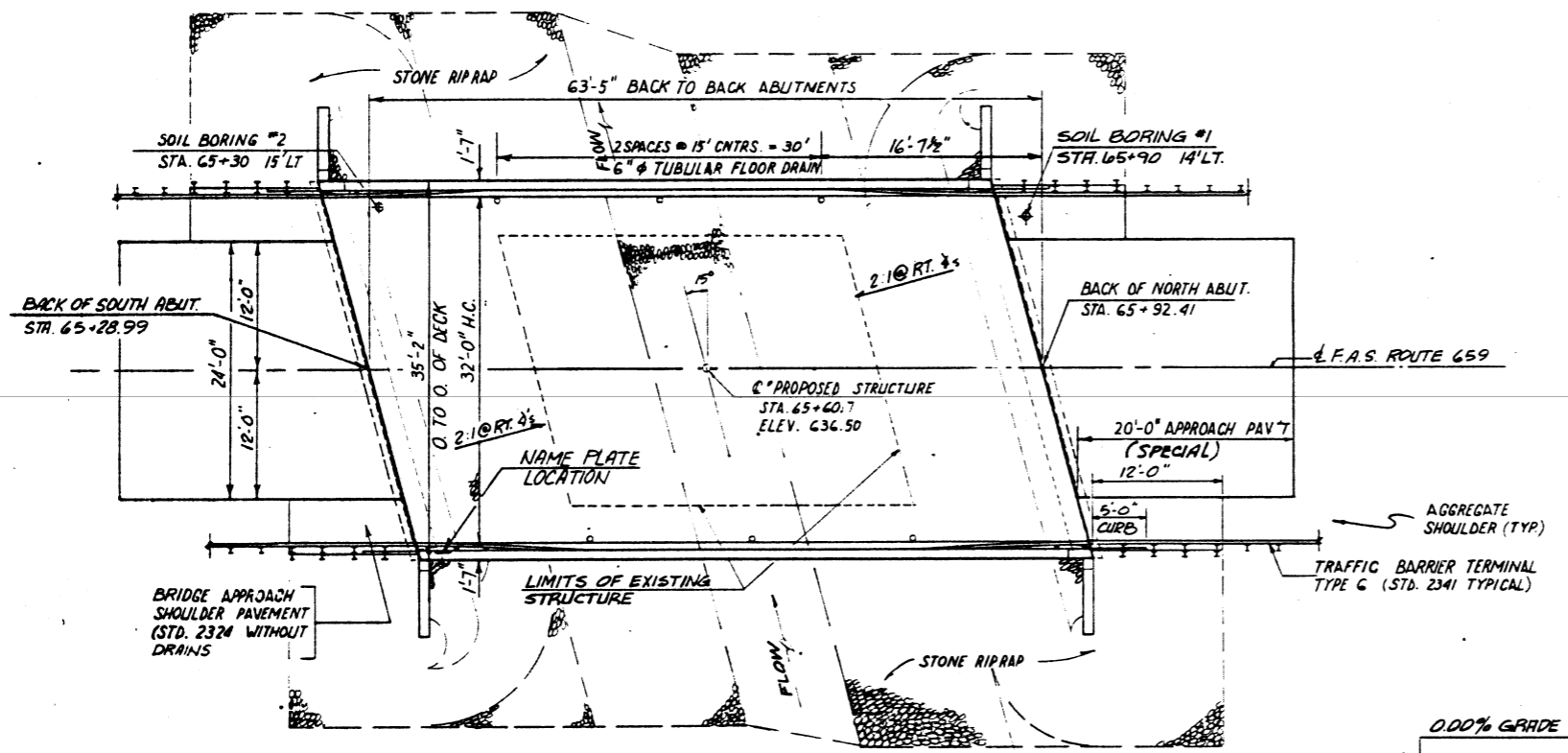
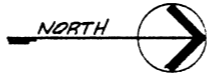
BENCH MARK "C"
 CHISLED "C" ON SOUTH END OF EAST HUB GUARD ELEV. 633.09
 DESCRIPTION OF EXISTING STRUCTURE:
 THE EXISTING SINGLE SPAN STRUCTURE, CONSTRUCTED IN 1935, CONSISTS OF A STEEL REINFORCED CONCRETE DECK ON STEEL I-BEAMS ON CREOSOTED TIMBER BENT ABUTMENTS. EXISTING STRUCTURE IS 31'-0" ± IN LENGTH F. TO F. OF ABUTMENTS AND HAS AN EXISTING HORIZONTAL CLEARANCE OF 23'-8". ENTIRE EXISTING STRUCTURE TO BE REMOVED WITH NO SALVAGE. ROAD WILL BE CLOSED AND TRAFFIC WILL BE DETOURED.

STRUCTURE:
 070-0013 (EXISTING)
 070-0045 (PROPOSED)

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
659	8BR	*	22	10
FEB. ROAD DIST. NO. 9 ILLINOIS PROJECT				
* MOULTRIE				
SHEET 1 OF 8				

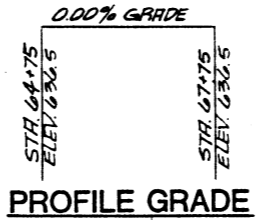


ELEVATION

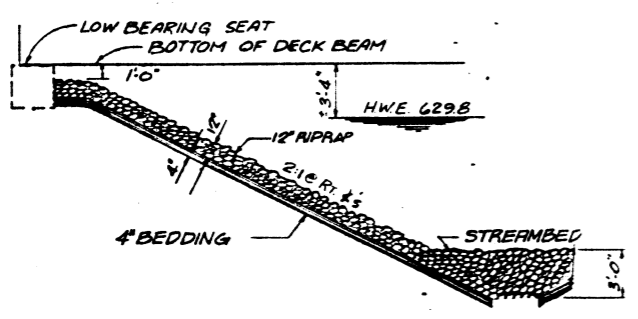


PLAN

NOTE:
 LAYOUT OF STONE RIP RAP MAY BE VARIED TO SUIT GROUND CONDITIONS IN THE FIELD, AS DIRECTED BY THE ENGINEER



PROFILE GRADE



RIPRAP DETAIL

WATERWAY INFORMATION

Drainage Area 11.35 SQ. MI.		Low Grade Elev. 632.0' (e) 636.5' (p) @ Sta. 65+77 64+75							
Flood Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. Prop. H.W.E.	Head-Ft. Exist.	Prop.	Headwater El. Exist.	Prop.		
Design	30	1625	232	230	629.8'	1.93	1.10	631.63	632.90
Base	100	2087	232	252	630.3'	1.94	1.70	632.24	632.00
Overtopping									
Max. Calc.	500	2684		280	630.9'		2.72		633.60

TOTAL BILL OF MATERIAL				
ITEM	UNIT	SUBSTR.	SUPER.	TOTAL
CLASS "X" CONCRETE	CU. YD.	23.4		23.4
REINFORCEMENT BARS	POUNDS	3275	1476	4751
REINFORCEMENT BARS (EPOXY COATED)	POUNDS		17,600	17,600
STRUCTURAL STEEL	L. SUM.		1	1
NAME PLATES	EACH		1	1
FLOOR DRAINS	EACH		6	6
PROTECTIVE COAT	SQ. YD.		54	54
PRECAST CONCRETE PILES 14"	LIN. FT.	443		443
TEST PILES PRECAST CONCRETE	EACH	1		1
STONE RIPRAP	SQ. YD.	550		550
REMOVAL OF EXISTING STRUCTURES	EACH	1		1
STRUCTURE EXCAVATION	CU. YD.	30		30
STUD SHEAR CONNECTORS	EACH		1470	1470
Class X Concrete Superstructure	Cu. Yd.		87.8	87.8

Station 65+60.70
 Built 198_ By
 State of Illinois
 F.A.S. Rte. 659 Sec. 8BR
 PROJECT ACBR-659(105)
 Loading HS 20
 Structure No. 070-0045

NAME PLATE
 SEE STD. 2113

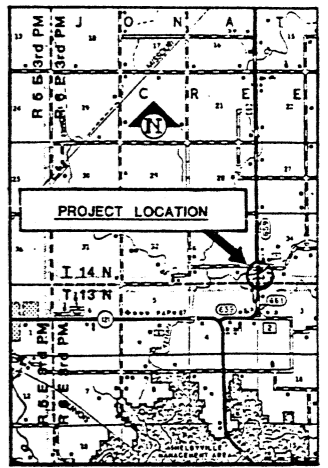
DESIGN STRESSES

$f'_c = 3500$ p.s.i. (CLASS X CONCRETE)
 $f_y = 60,000$ p.s.i. (REINFORCEMENT BARS)
 $f_y = 50,000$ p.s.i. (STRUCTURAL STEEL)
 $n = 9$ (COMPOSITE)

LOADING HS20-44
 DESIGN SPECIFICATIONS: AASHTO 1983,
 1984 & 1985 INTERIMS
 25' / 50 FT INCLUDED IN DEAD LOAD FOR
 FUTURE WEARING SURFACE

APPROVE
 James J. Fayburn

PATRICK H. McHOOD
 structural engineer



LOCATION PLAN

GENERAL PLAN & ELEVATION
 F.A.S. ROUTE 659 SEC 8BR.
 MOULTRIE COUNTY
 STATION 65+60.70

GENERAL NOTES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
659	8BR	*	22	//

FED. ROAD DIST. NO. 9 ILLINOIS PROJECT

* MOULTRIE

SHEET 2 OF 8

SEE SHEET # 4 OF 22 FOR BIDDING DATA.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 37,810 POUNDS.

ALL STRUCTURAL STEEL SHALL BE AASHTO M 222 AND SHALL *NOT BE PAINTED*.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS, ZONE 2. THESE COMPONENTS ARE THE WIDE FLANGE BEAMS.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60

LAYOUT OF STONE RIPKAP SLOPE WALLS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DRIVE ONE PRECAST PILE IN A PERMANENT LOCATION AT THE SOUTH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONTRACTOR SHALL REMOVE THE EXISTING TIMBER, DEADMEN AND 3/4" Ø STEEL TIE RODS THAT WILL INTERFERE WITH CONSTRUCTION PRIOR TO DRIVING THE PILES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVAL OF EXISTING STRUCTURES.

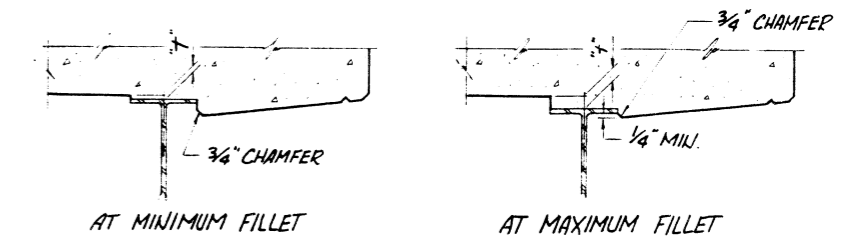
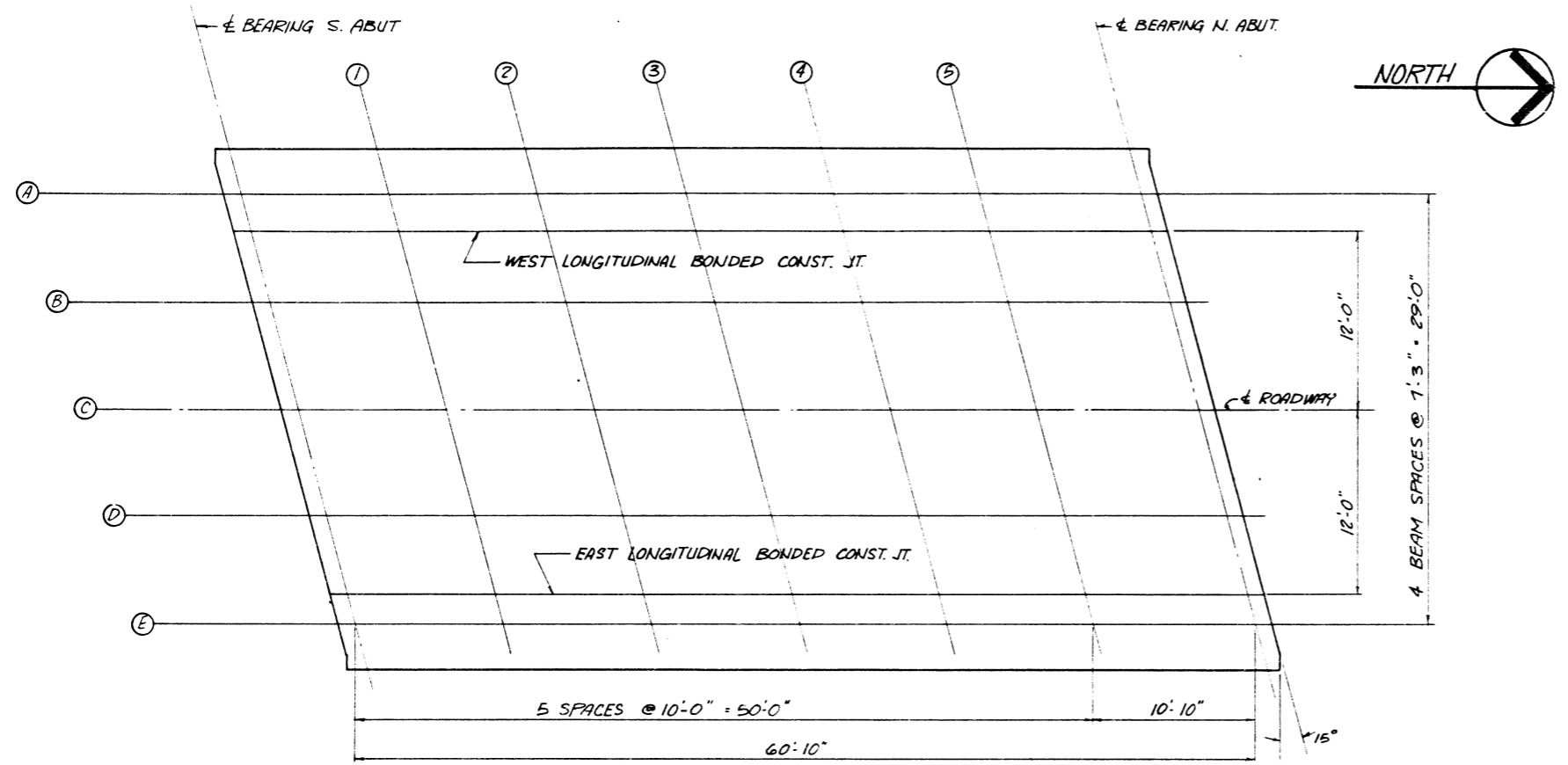
FASTENERS SHALL BE HIGH STRENGTH BOLTS AASHTO M164, TYPE 3.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

All structural steel fabricators performing work on the main load carrying components of steel structures shall be certified under Category I (AISC) of the Quality Certification Program.

All high strength bolt connections shall conform to the requirements of the latest issue of the Specifications for Structural Joints using ASTM A325 (M164) or A490 (M253) bolts for slip-critical connections. Except tightening methods using either the load indicating washers or the calibrated wrench are not allowed.

GENERAL NOTES
F.A.S. ROUTE 659 SEC. 8BR.
MOULTRIE COUNTY
STATION 65+60.70



FILLET HEIGHT "1"

TO DETERMINE "1": AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT INTERVALS SHOWN. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN, MINUS SLAB THICKNESS, EQUALS THE FILLET HEIGHT "1" ABOVE TOP FLANGES OF BEAMS.

BEAM A				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+26.395	14.50'	636.260	636.260
1.	65+36.395	14.50'	636.260	636.326
2.	65+46.395	14.50'	636.260	636.373
3.	65+56.395	14.50'	636.260	636.392
4.	65+66.395	14.50'	636.260	636.376
5.	65+76.395	14.50'	636.260	636.331
BRG. N. ABUT.	65+87.228	14.50'	636.260	636.260

WEST LONGITUDINAL BONDED CONST. JT.				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+27.065	12.00'	636.312	636.312
1.	65+37.065	12.00'	636.312	636.378
2.	65+47.065	12.00'	636.312	636.425
3.	65+57.065	12.00'	636.312	636.444
4.	65+67.065	12.00'	636.312	636.428
5.	65+77.065	12.00'	636.312	636.382
BRG. N. ABUT.	65+87.898	12.00'	636.312	636.312

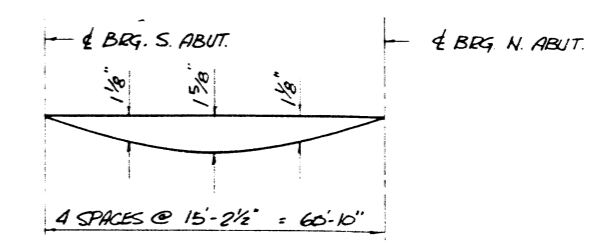
BEAM B				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+28.337	7.25'	636.386	636.386
1.	65+38.337	7.25'	636.386	636.452
2.	65+48.337	7.25'	636.386	636.500
3.	65+58.337	7.25'	636.386	636.518
4.	65+68.337	7.25'	636.386	636.503
5.	65+78.337	7.25'	636.386	636.457
BRG. N. ABUT.	65+89.171	7.25'	636.386	636.386

BEAM C				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+30.280	0'	636.500	636.500
1.	65+40.280	0'	636.500	636.566
2.	65+50.280	0'	636.500	636.613
3.	65+60.280	0'	636.500	636.632
4.	65+70.280	0'	636.500	636.616
5.	65+80.280	0'	636.500	636.570
BRG. N. ABUT.	65+91.113	0'	636.500	636.500

BEAM D				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+32.223	7.25'	636.386	636.386
1.	65+42.223	7.25'	636.386	636.452
2.	65+52.223	7.25'	636.386	636.500
3.	65+62.223	7.25'	636.386	636.518
4.	65+72.223	7.25'	636.386	636.503
5.	65+82.223	7.25'	636.386	636.457
BRG. N. ABUT.	65+93.056	7.25'	636.386	636.386

EAST LONGITUDINAL BONDED CONST. JT.				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+33.495	12.00'	636.312	636.312
1.	65+43.495	12.00'	636.312	636.378
2.	65+53.495	12.00'	636.312	636.425
3.	65+63.495	12.00'	636.312	636.444
4.	65+73.495	12.00'	636.312	636.428
5.	65+83.495	12.00'	636.312	636.382
BRG. N. ABUT.	65+94.329	12.00'	636.312	636.312

BEAM E				
LOCATION	STATION	OFFSET	T	ADJ.
BRG. S. ABUT.	65+34.165	14.50'	636.260	636.260
1.	65+44.165	14.50'	636.260	636.326
2.	65+54.165	14.50'	636.260	636.373
3.	65+64.165	14.50'	636.260	636.392
4.	65+74.165	14.50'	636.260	636.376
5.	65+84.165	14.50'	636.260	636.331
BRG. N. ABUT.	65+94.999	14.50'	636.260	636.260

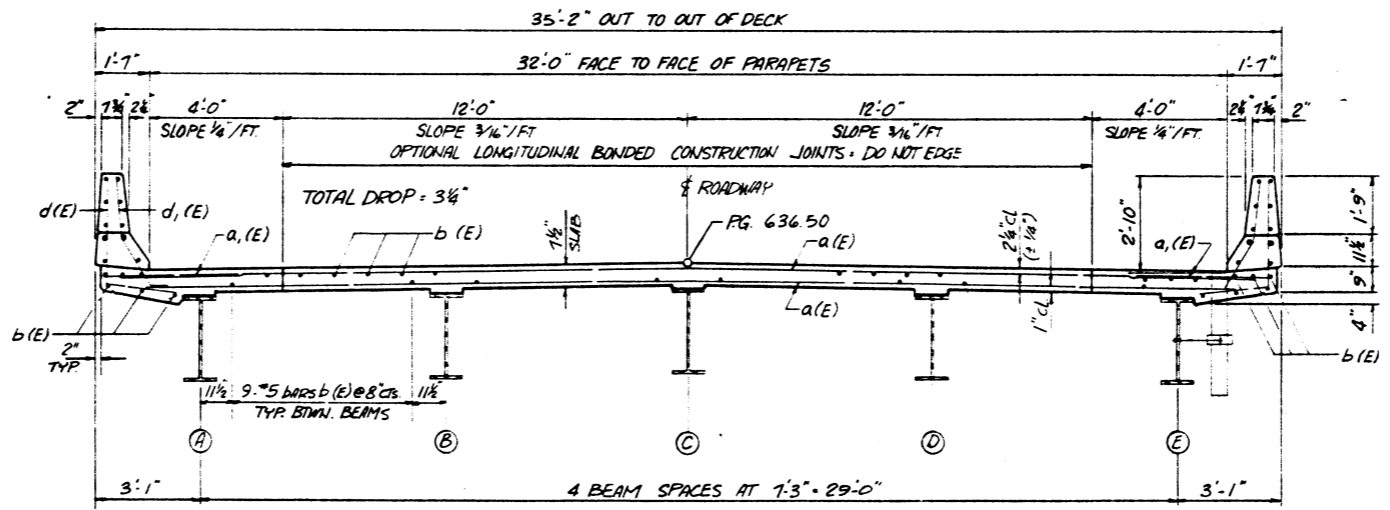
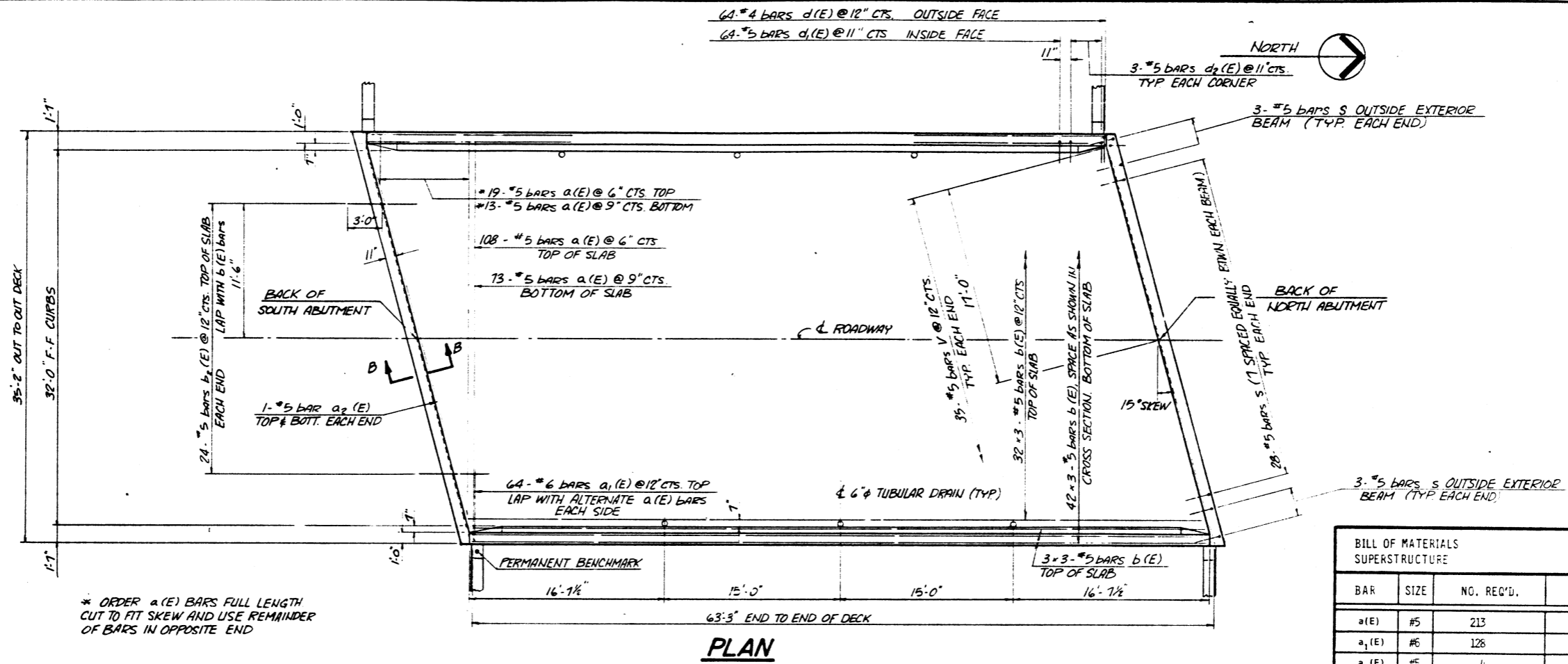


DEAD LOAD DEFLECTION DIAGRAM *
(INCLUDES WEIGHT OF CONCRETE ONLY)

T = THEORETICAL GRADE ELEVATION
ADJ = THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION.

*NOTE:
THESE 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.

SLAB ELEVATIONS
F.A.S. ROUTE 659 SEC. 8BR.
MOULTRIE COUNTY
STATION 65+60.70



MIN. BAR LAPS

#4	1'-5"
#5	1'-9"
#6	3'-8"

BILL OF MATERIALS SUPERSTRUCTURE				
BAR	SIZE	NO. REQ'D.	LENGTH	SHAPE
a(E)	#5	213	33' - 0"	—
a ₁ (E)	#6	126	4' - 0"	—
a ₂ (E)	#5	4	36' - 0"	—
a ₃	#6	8	36' - 1"	—
a ₄	#4	4	16' - 4"	—
a ₅	#4	4	18' - 11"	—
a ₆	#5	8	7' - 2"	—
a ₇	#5	4	3' - 0"	—
b(E)	#5	252	22' - 2"	—
b ₂ (E)	#5	48	6' - 0"	—
b ₃ (E)	#6	8	33' - 7"	—
d(E)	#4	126	4' - 11"	—
d ₁ (E)	#5	128	3' - 11"	—
d ₂ (E)	#5	12	4' - 2"	—
e(E)	#4	48	15' - 7"	—
v	#5	70	3' - 3"	—
s	#5	68	3' - 10"	—
s ₁	#4	60	8' - 1"	—

CLASS "X" CONCRETE Superstr.	CU. YD.	87.8
REINFORCEMENT BARS	POUNDS	1470
REINF. BARS (EPOXY COATED)	POUND	17600
PROTECTIVE COAT	SG. YD.	54
FLOOR DRAIN	EACH	6

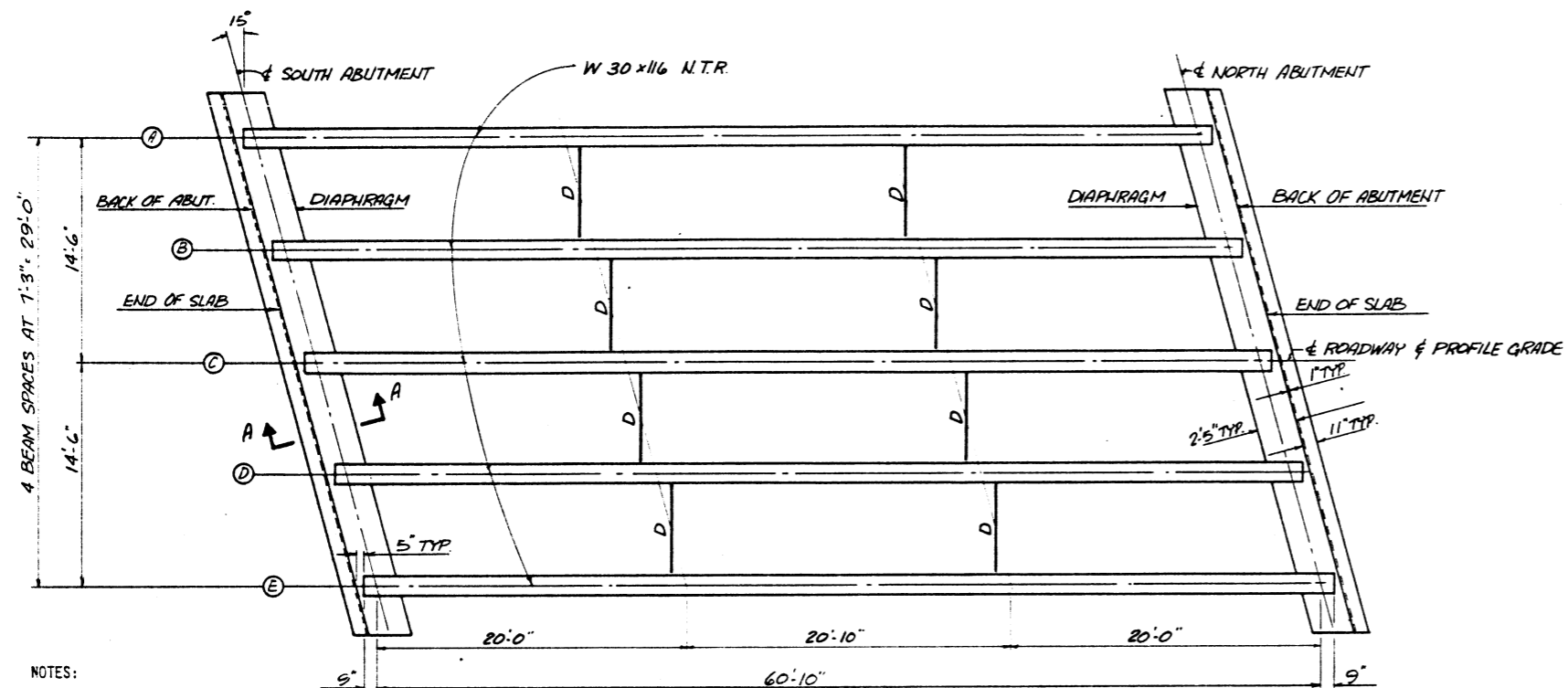
BARS INDICATED THIS - 32 x 3 - #5 ETC... INDICATES 32 LINES OF BARS WITH 3 LENGTHS PER LINE.
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 SEE SHEET 5 FOR SECTION E-E.

SUPERSTRUCTURE
F.A.S. ROUTE 659 SEC. 8BR.
MOULTRIE COUNTY
STATION 65+60.70

WORK THIS SHEET WITH SHEET 5.

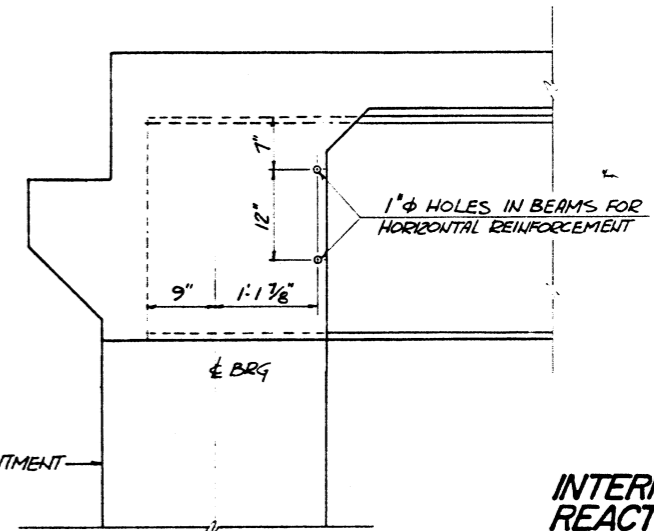
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
659	8BR	*	22	15

FED. ROAD DIST. NO. 9 ILLINOIS PROJECT
 * MOULTRIE
 SHEET 6 OF 8



NOTES:
 N.T.R. INDICATES NOTCH TOUGHNESS REQUIREMENTS, ZONE 2.
 STRUCTURAL STEEL SHALL BE M 222.

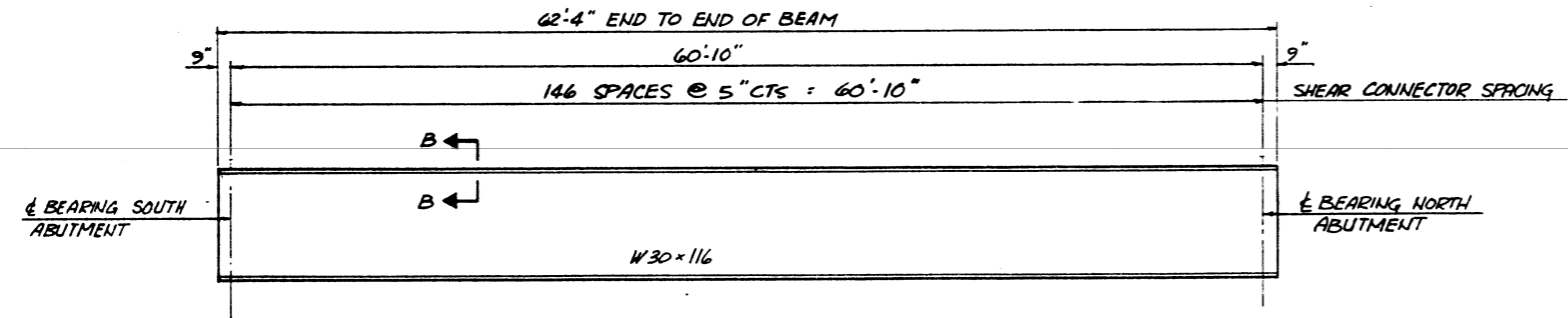
FRAMING PLAN



SECTION A-A

INTERIOR BEAM REACTION TABLE

	ABUTS.
R _{PN.C.} + R _{PC.} (K)	34.4
R _L (K)	40.2
R _{M.P.} (K)	10.8
R _{TOTAL} (K)	85.4

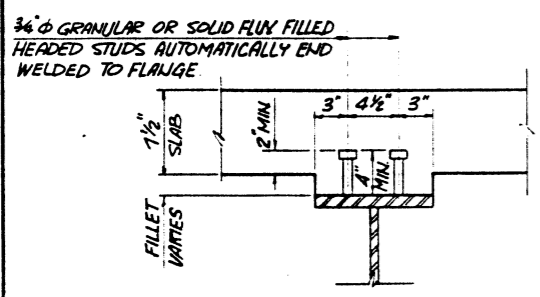


GIRDER ELEVATION

INTERIOR BEAM MOMENT TABLE

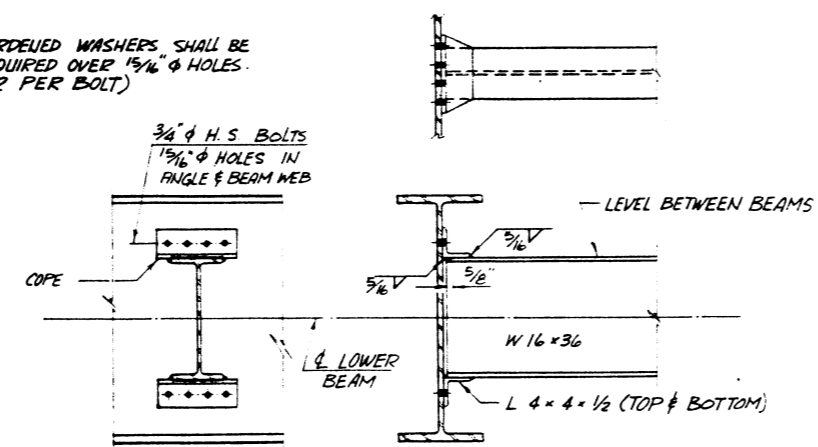
		0.5 SPAN
I _s	(IN. ⁴)	4,930
I _c	(IN. ⁴)	14,115
S _s	(IN. ³)	329
S _c	(IN. ³)	495
M _{D.N.C.}	(K)	0.810
M _{PC.}	(K)	373
M _{PC.}	(K)	0.323
M _{PC.}	(K)	149
M _L	(K)	537
M _{M.P.}	(K)	144
S ₂ (M _L + I)	(K)	1,130
M _A	(K)	2,156
M _U	(K)	2,722
FS _{D.N.C.}	(K.S.I.)	13.6
FS _{PC.}	(K.S.I.)	3.6
FS _{S₂(L + I)}	(K.S.I.)	27.3
FS (OVERLOAD)	(K.S.I.)	44.5
V _P	(K)	51.0

I_s AND S_s ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING F_s (OVERLOAD).
 I_c AND S_c ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTIONS USED IN COMPUTING F_s (OVERLOAD).
 V_P IS THE MAXIMUM (L + I) SHEAR RANGE IN THE SPAN.
 F_s (OVERLOAD) IS THE SUM OF THE STRESSES DUE TO M_{D.N.C.} + M_{PC.} + S₂(M_L + I).
 M_A (APPLIED MOMENT) = 1.3 (M_{D.N.C.} + M_{PC.} + S₂(M_L + I)).
 M_U = FULL PLASTIC MOMENT CAPACITY FOR COMPACT, BRACED SECTION. THE FULLY PLASTIC MOMENT CAPACITY (M_U) IS COMPUTED ACCORDING TO AASHTO 10.48.1 & 10.50.1.1.
 M_{D.N.C.} - MOMENT DUE TO DEAD LOADS ON NON-COMPOSITE SECTION.
 M_{PC.} - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION.
 M_L - MOMENT DUE TO LIVE LOAD ON COMPOSITE SECTION.
 I - LIVE LOAD IMPACT.



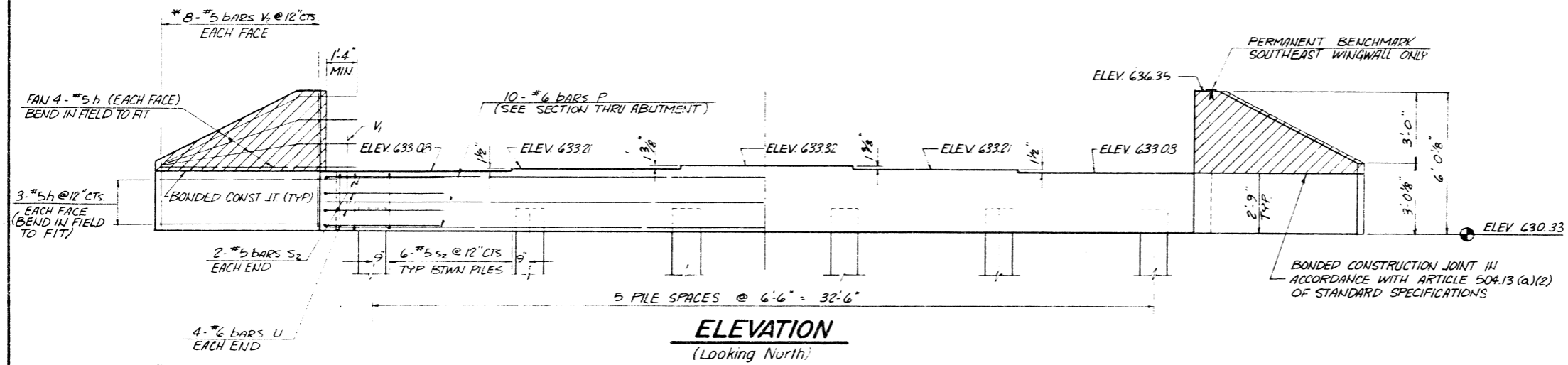
SECTION B-B
 1470 REQUIRED

NOTE: HARDENED WASHERS SHALL BE REQUIRED OVER 1 5/16" HOLES. (2 PER BOLT)



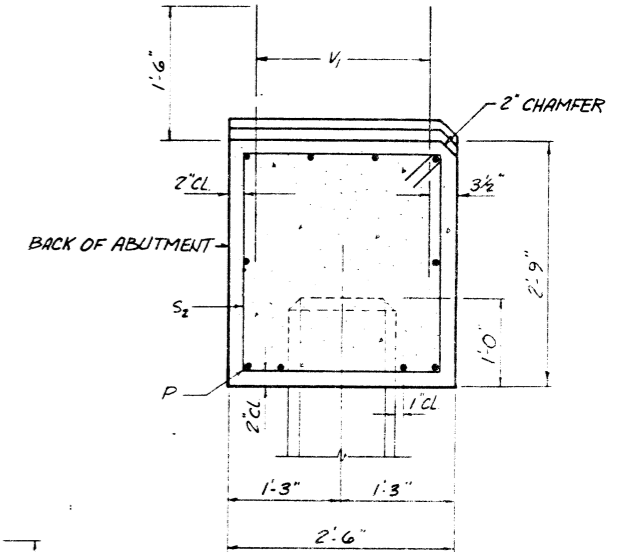
DIAPHRAGM D
 3 REQUIRED

**DIAPHRAGM DETAIL
 STRUCTURAL STEEL
 F.A.S. ROUTE 659 SEC. 8BR
 MOULTRIE COUNTY
 STATION 65+60.70**

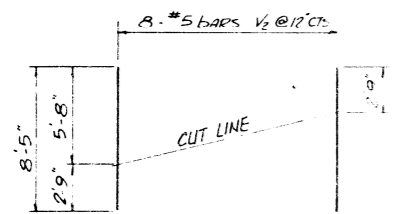


ELEVATION
(Looking North)

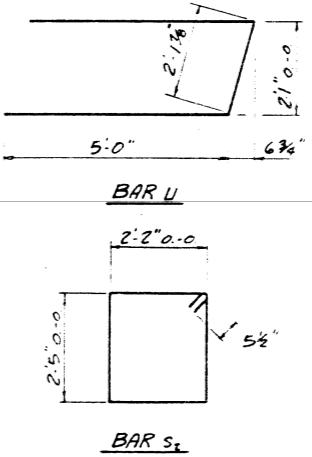
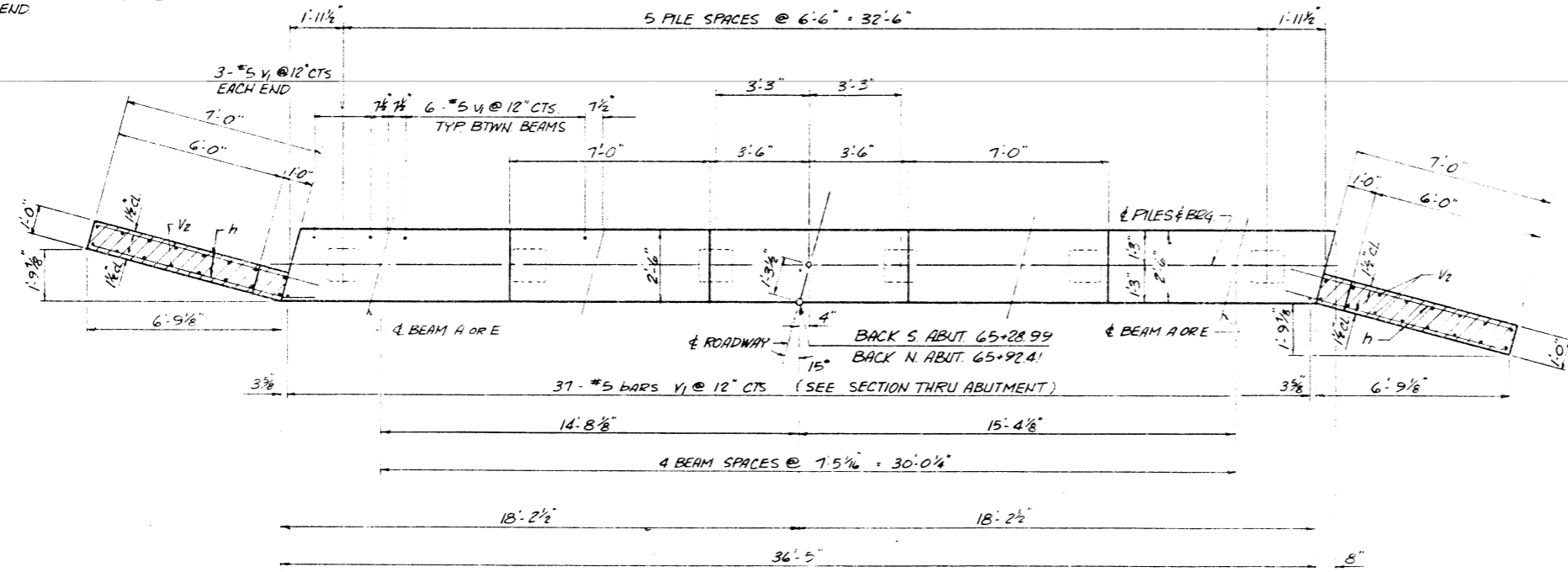
NOTE: HATCHED AREA TO BE POURED WITH DECK AFTER BEAMS ARE IN PLACE QUANTITY OF CLASS X CONCRETE INCLUDED WITH SUPERSTRUCTURE



SECTION THRU ABUTMENT



* FIELD CUTTING DIAGRAM
ORDER V₂ BARS FULL LENGTH, CUT TO FIT AND USE THE REMAINDER IN THE OPPOSITE END



BILL OF MATERIALS 2 ABUTS.				
BAR	SIZE	NO. REQ'D.	LENGTH	SHAPE
V	#5	56	8' - 3"	—
P	#6	20	36' - 1"	—
S ₂	#5	68	10' - 1"	□
U	#6	16	12' - 2"	—
V ₁	#5	134	3' - 0"	—
V ₂	#5	32	8' - 5"	—
CLASS "X" CONCRETE		CU. YD.	23.6	
REINFORCEMENT BARS		POUNDS	3175	
PRECAST CONC. PILES 14"		LIN. FT.	443	
TEST PILES PRECAST CONC.		EACH	1	

SEE SHEET 8 FOR CONCRETE PILE DETAILS.

PILE DATA

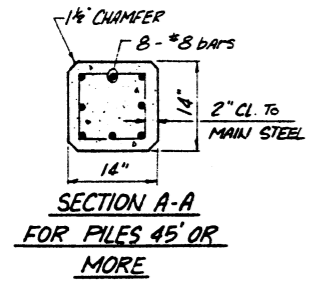
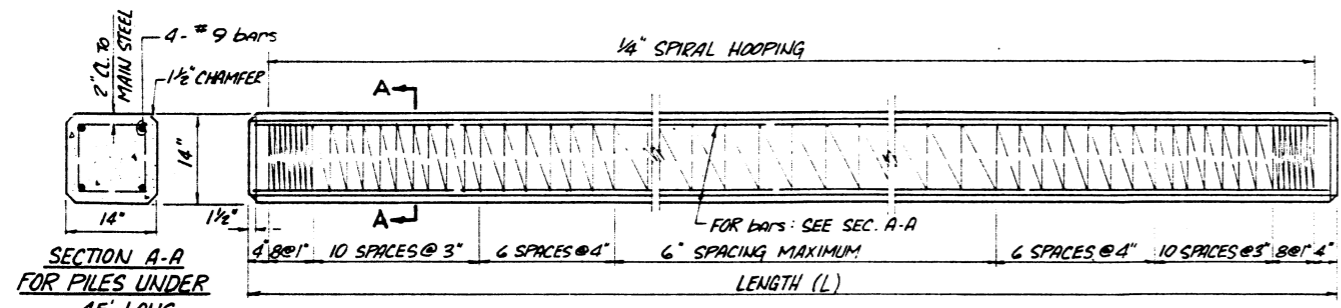
TYPE	PRECAST CONCRETE 14"
NO. REQ'D. (2 ABUTS.)	12 **
CAPACITY	45 TONS/PILE
EST. LENGTH	37 FEET/PILE S. ABUT. 43 FEET/PILE N. ABUT.

** INCLUDES ONE TEST PILE TO BE DRIVEN IN A PERMANENT LOCATION AT THE SOUTH ABUTMENT.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
659	8BR	*	22	17

PUB. ROAD DIST. NO. 9 | ILLINOIS | PROJECT

* MOULTRIE
SHEET 8 OF 8



HANDLING:
 FOR PILE LENGTHS UP TO 45 FT. USE TWO (2) SLINGS
 PLACED AT A DISTANCE OF 0.21 L* FROM EACH END. FOR
 PILES LONGER THAN 45 FT. USE THREE (3) SLINGS PLACED AT
 A DISTANCE OF 0.12 L* FROM EACH END AND AT MID-POINT OF
 PILE.

*L = OVER ALL LENGTH OF PILE TO BE HANDLED.

DETAIL OF PRECAST CONCRETE PILES

CONCRETE PILE DETAILS
 F.A.S. ROUTE 659 SEC. 8BR.
 MOULTRIE COUNTY
 STATION 65+60.70