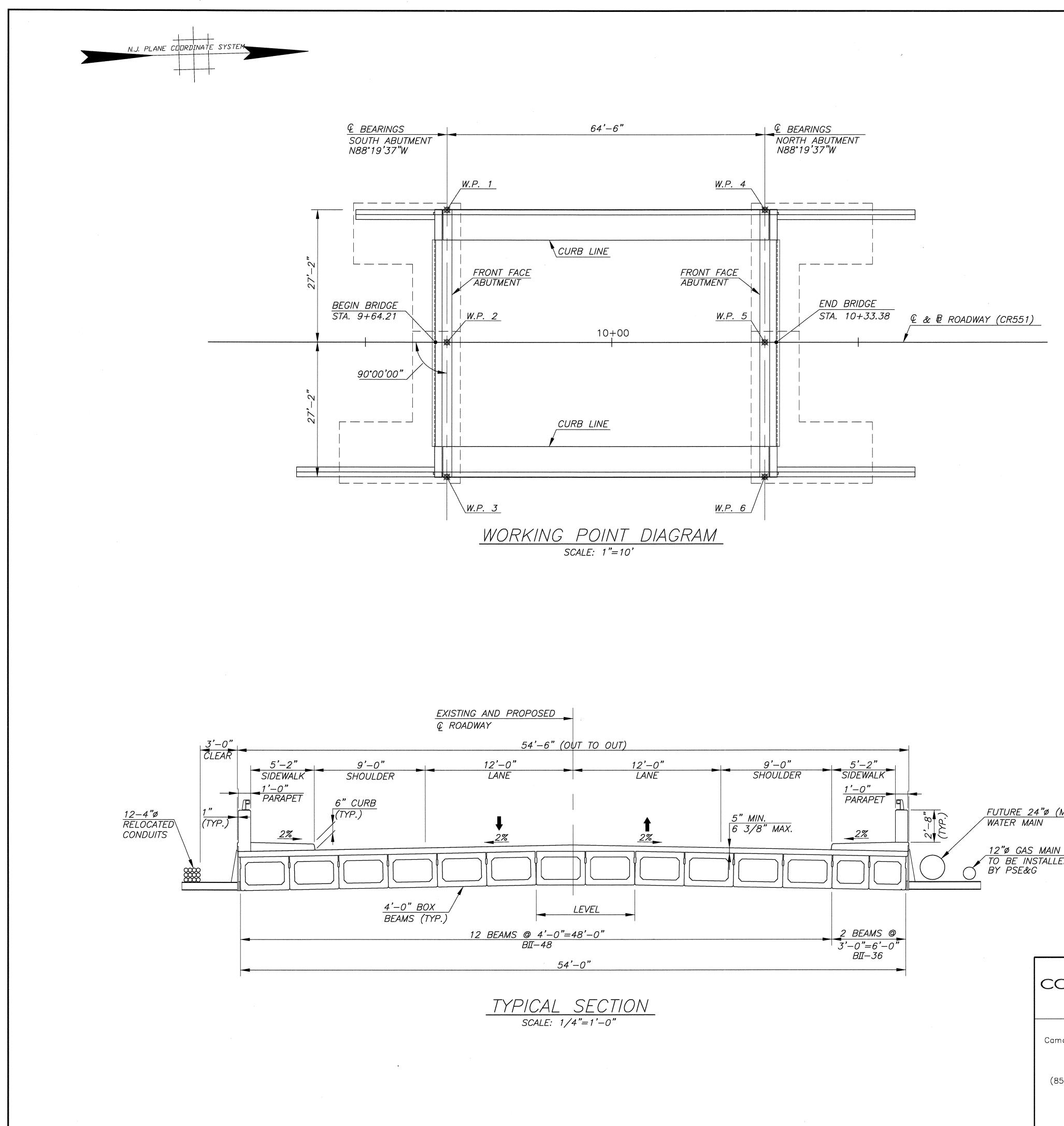


Image: No. REVISION Date By or construction Image: No. REPLACEMENT OF BROADWAY (CR 551) BRIDGE OVER LITTLE TIMBER CREEK (STRUCTURE NO. 45A010) Image: No. Borough of BrookLawn, Camben country, New JERSEY Image: Norks Image: Norks Image: Norks Image: Norks REGORY D. BITSKO 2988 Professional Engineer, N.J. LIC. No. GE 035238 2988 Image: Norks Professional Corporation											
(4) 2004 AND/O LIPS DESIGN SPECIFICATIONS (STD LERICH WHIT CHREMEN BROCES AND STRUCTURES (4) 2001 MILLION SPECIFICATIONS FOR ROAD AND BROSE CONSTRUCTION AS (5) CONSTRUCTURES (5) CONSTRUCTURES		GEI	VE.	RAL NOTES.	•						
(4) 2001 NUTCE STANDARD SPECIFICATIONS FOR RANA AND BRIDDE CONSTRUCTION AS MONTED BY THE SUPERIMENTARY SPECIFICATION AS MARKET GOVERNS. MARKET GOVERNS. MARKET GOVERNS. MARKET GOVERNS. CONSERVE GOVERNS. CONS	1.			2004 AASHTO LRFD E INTERIMS) AS MODIFIE	ED BY SE						IT 1
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(a) SPECIEND DESIGN COMPRESSIVE STRENCH (f*) (b) ACCORDINATES WITH THE REST LUMI FOR PAY-ADJISTMENT ITEMS AS SPECIFIED IN TIGLE 914-4 OF THE INDOT STANDARD SPECIFICATIONS AND AS SPECIFIED IN TIGLE 914-4 OF THE INDOT STANDARD SPECIFICATIONS AND AS (CASS B	3.	<u>LIVE L</u>			VEHICUL	AR LIVE L	OADING OR	° NJDOT	PERMIT V	ÆHICLE,	
 (6) CLASS DESIGN STREUCHS (7) ACCORDANCE WITH TABLE 914-3 OF THE INDOT STANDARD SPECIFICATIONS). CLASS A	-			SPECIFIED DESIGN CO (IN ACCORDANCE WITH SPECIFIED IN TABLE MODIFIED BY THE SP CLASS A CLASS B (THE RETEST LIMIT FO	H THE RE 914–4 OI ECIAL PRO OR NON–	TEST LIMI F THE NJL OVISIONS). PAY-ADJU	T FOR PAY DOT STAND, 	ARD SPE DOO PSI DOO PSI EMS SHAI	CIFICATIOI LL BE AS	NS AND AS	
 (C) ALLOWABLE STRESSES, EXTREME PREPR IN COMPRESSION (fc) CLASS A		(Έ)	CLASS DESIGN STREN (IN ACCORDANCE WIT CLASS A	'GTHS H TABLE	914—3 Of	- THE NJD 	500 PSI	DARD SPE	ECIFICATIONS).
 (2) CONCERTE PROVIDED FOR FOOTINGS, ABUTMENT WALLS AND RETAINING WALLS SHALL BE CLASS B. PRESTRESSEE CONCRETE BOX BEAMS SHALL BE CLASS P. ALL OTHER CONCRETE SHALL BE CLASS A. 5. BEINFORCEMENT STEEL (a) ASTM ASTS (GRADE 60) 1s=24,000 PSi (b) ALL RENFORCEMENT STEEL TO BE HOT-DIP GALVANIZED. (c) ALL RENFORCEMENT STEEL TO BE HOT-DIP GALVANIZED. (c) ALL RENFORCEMENT STEEL TO BE HOT-DIP GALVANIZED. (c) SUPERSTRUCTURE (c) OFMMER ALL DEXPOSED CONCRETE BEDGES 3/4*3/4* UNILESS OTHERWISE NOTED. (c) SEE OPERSTRESSED CONCRETE BEDGES 3/4*3/4* UNILESS OTHERWISE NOTED. (d) SEESIND CERFORMANCE CATEGORY (SPC) B (e) SEESIND (f) SEESIND (f) SEESIND (h) SEISIND CERFORMANCE CATEGORY (SPC) B (f) SEISING PERFORMANCE CATEGORY (SPC) B (f) SEISING CERFORMANCE CATEGORY (SPC) B (f) SEISING CERFORMANCE CATEGORY (SPC) B (g) ACCELERATION COEFFICIENT S=1.0 (h) SEISING PERFORMANCE CATEGORY (SPC) B (f) SEISING CERFORMANCE CATEGORY (SPC) B (g) CONTRACTOR SHALL DEATON OF BORINGS. LOG NO. (h) ABUTMENTS AND WINCWALLS SHALL BE FOUNDED ON CAST-IN-PLACE CONCRETE (g) VERTICAL DATUM: NUT STATE COORDINATE PLANE (h) ABUTMENTS AND WINCWALLS SHALL BE FOUNDED ON CAST-IN-PLACE CONCRETE (g) VERTICAL DATUM: NUT BATTLE COORDINATE PLANE (h) HORZONTAL DATUM: NUT STATE COORDINATE PLANE (g) VERTICAL DATUM: NUT STATE COORDINATE PLANE (h) ABUTMENTS AND WINCWALLS SHALL BE FOUNDED TO COORDINATE AND SCHEDULE RELOCATION OF UTILITES. (A) ABUTMENTS AND WINCWALLS SHALL BE AND VERIFY IN THE FIELD ALL EXISTING CONDIT (A) ABUTMENTS AND WINCHALLS SHALL BE AND VERIFY IN THE FIELD ALL EXISTING CONDITA (A) THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO COORDINATE AND SCHEDULE RELOCATION OF UTILITES. (A) THE CONTRACTOR SHALL MARKES AND PROVING AND MARKET HE APPROVED (A) THE CO		(<i>"C)</i>	ALLOWABLE STRESSES CLASS A DECK SLABS OF V	, EXTREM EHICULAR	E FIBER I BRIDGES	N COMPRE 1,6 1,4	SSION (f 500 PSI 400 PSI	<i>c)</i>		
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 (A) ● - INDICATES LOCATION OF BORINGS. LOG NO. 9. FOUNDATION (A) ABUTMENTS AND WINGWALLS SHALL BE FOUNDED ON CAST-IN-PLACE CONCRETE PLIES, 12" DUMETER WITH 45 TON ALLOWABLE CAPACITY. (A) ABUTMENTS AND WINGWALLS SHALL BE FOUNDED ON CAST-IN-PLACE CONCRETE PLIES, 12" DUMETER WITH 45 TON ALLOWABLE CAPACITY. (A) HORIZONTAL DATUM: NJ STATE COORDINATE PLANE 	7.	(.	A) B)	SEISMIC PERFORMANC	ICIENT A		В				
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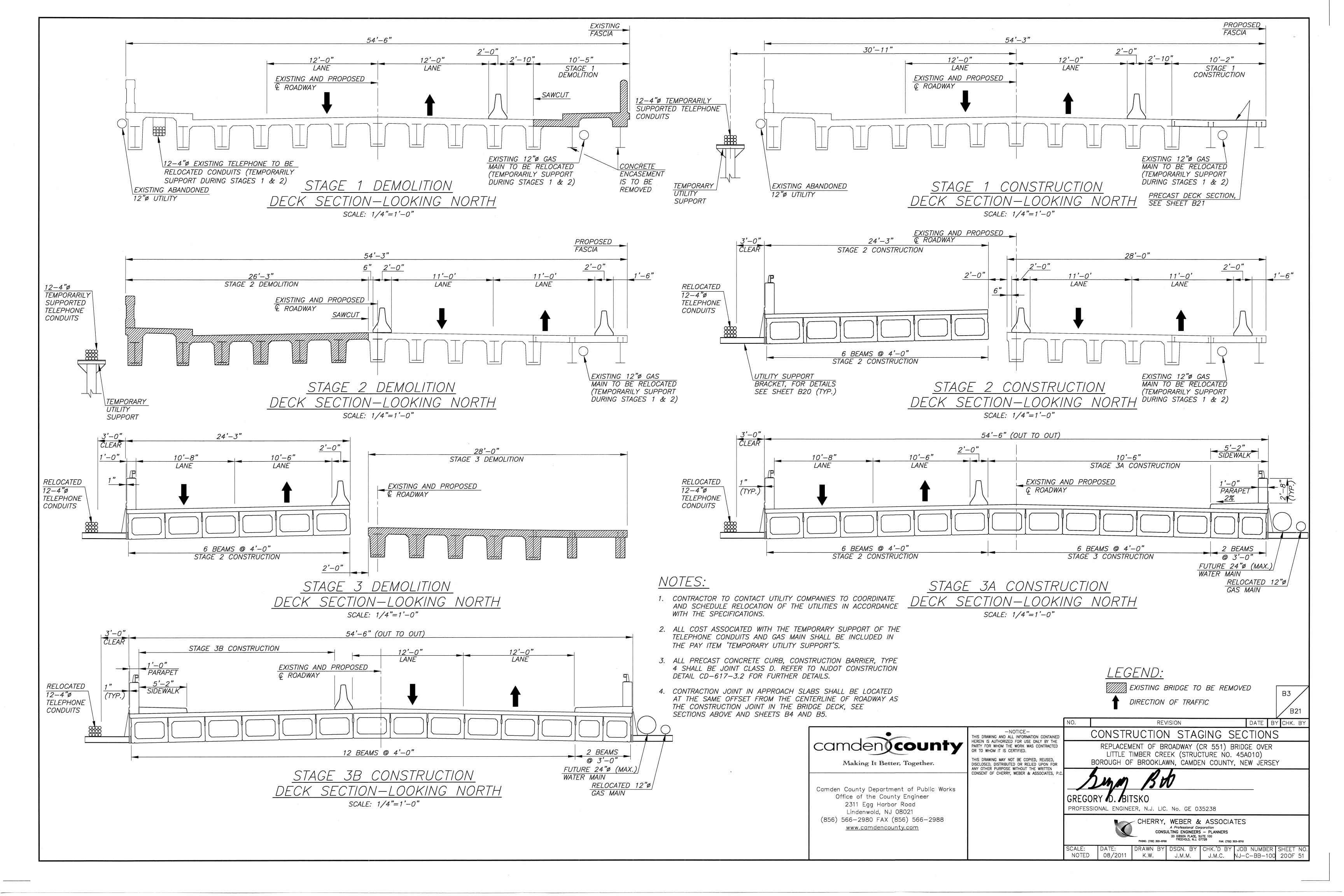


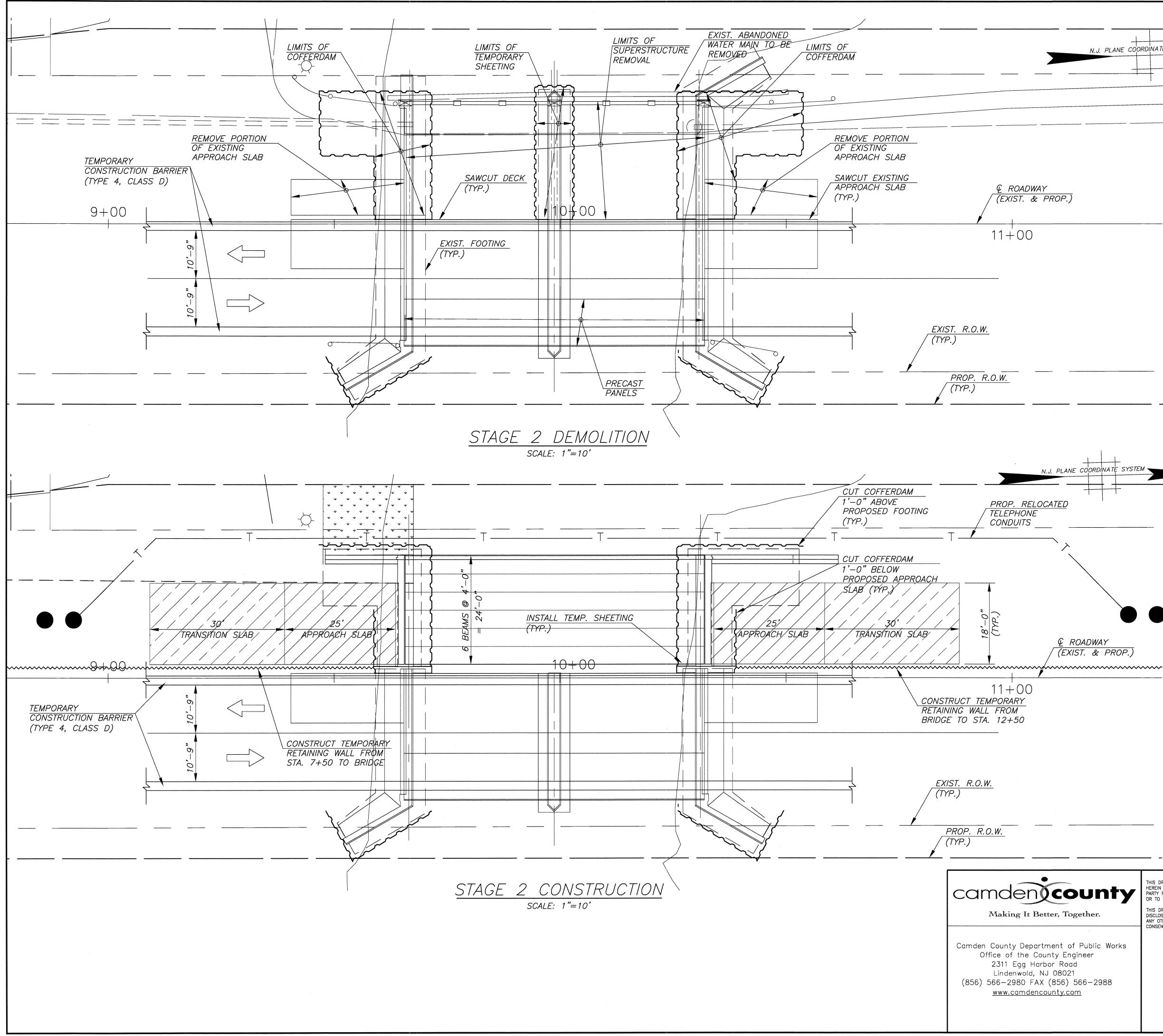
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	SUMMARY OF QUANTITIES			
PAY ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	AS–BUILT QUANTITY
63	CLEARING SITE, BRIDGE	LS	LS	
64	POROUS FILL	CY	620	
65	COARSE AGGREGATE LAYER	CY	75	-
66	FOUNDATION EXCAVATION	CY	769	
67	FOUNDATION EXCAVATION, REGULATED WASTE	CY	735	
68	COFFERDAMS	LS	LS	
69	SOUTH ABUTMENT COFFERDAMS	LS	LS	
70	CONCRETE IN STRUCTURES, FOOTINGS	СҮ	214	-
71	CONCRETE IN STRUCTURES, RETAINING WALLS	CY	200	
72	CONCRETE IN SUBSTRUCTURES, ABUTMENT WALLS	CY	234	-
73	CONCRETE IN SUPERSTRUCTURE, DECK SLABS	CY	73	
74	CONCRETE IN SUPERSTRUCTURE, SIDEWALKS	CY	19	
75	CONCRETE IN SUPERSTRUCTURE, PARAPETS	LF	239	
76	REINFORCEMENT STEEL IN STRUCTURES, GALVANIZED	LB	64,000	
77	EPOXY WATERPROOFING SEAL COAT	SY	31	
78	2 1/2" X 2 1/2" PREFORMED ELASTOMERIC JOINT SEALER	LF	134	-
79	SAWCUT GROOVED DECK SURFACE	SF	2,607	
80	PRESTRESSED CONCRETE BOX BEAMS, (TYPE BII-36), 36" BY 33"	LF	133	
81	PRESTRESSED CONCRETE BOX BEAMS, (TYPE BII-48), 48" BY 33"	LF	794	
82	STRUCTURAL STEEL DECK JOINTS	LS	LS	
83	TEST PILES, DRIVEN	LF	360	
84	TEST PILES, FURNISHED	LF	360	
85	CAST-IN-PLACE CONCRETE PILES, DRIVEN, 12" DIAMETER	LF	5,180	
86	CAST-IN-PLACE CONCRETE PILES, FURNISHED, 12" DIAMETER	LF	5,180	
87	DYNAMIC PILE LOAD TEST	UNIT	6	
88	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	LS	
89	METAL RAILING (1 RAIL, ALUMINUM)	LF	227	-
90	UTILITY SUPPORT BRACKETS	UNIT	14	
91	TEMPORARY UTILITY SUPPORTS	UNIT	3	*
92	PRECAST PANELS	LS	LS	
93	NAME PLAQUE	UNIT	1	-

		WO	rking f	POINTS		
	W.P.	COORDI		STATION	OFFSE	$\overline{\tau}$
	NO.	NORTHING	EASTING			
	1	382978.91	317937.79	9+66.54	27.17'	<u> </u>
	2	382978.17	317964.94	9+66.54	0.00'	
JT TO OUT)	3	382977.32	317992.01	9+66.54	27.17'	
12'-0" 9'-0" 5'-2"	4	383043.38	317939.67	10+31.04	27.17'	<u>L.</u>
LANE SHOULDER SIDEWALK	5	383042.59	317966.83	10+31.04	0.00'	
	6	383041.80	317993.98	10+31.04	27.17'	<i>R</i> .
FUTURE 24"Ø (MAX	·)					
5" MIN. 5" MIN. 1	· <u>/</u>					
12"Ø GAS MAIN TO BE INSTALLED						
BY PSE&G						
48'-0" 2 BEAMS @ 3'-0"=6'-0"						
BII-36				1		, <u></u>
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NE COORDINATE SYSTEM		
		<u>RECOMMENDED STAGE 2</u>
		DEMOLITION STAGING:
	1.	DEMOLISH SUPERSTRUCTURE AND APPROACH SLABS TO LIMITS SHOWN.
	2.	INSTALL TEMPORARY SHEETING AND COFFERDAM TO LIMITS SHOWN. EXISTING WINGWALLS AND SUBSTRUCTURE SHALL BE DEMOLISHED AS NECESSARY TO INSTALL COFFERDAM.
	З.	DEMOLISH SUBSTRUCTURES.
	4.	REMOVE TEMPORARY SHEETING AT LOCATION OF PIER.
SYSTEM		<u>RECOMMENDED STAGE 2</u>
		CONSTRUCTION STAGING:
	1.	CONSTRUCT PROPOSED SUBSTRUCTURE TO LIMITS SHOWN.
	2.	CUT COFFERDAM 1'-O" ABOVE PROPOSED TOP OF FOOTING.
	3.	INSTALL TEMPORARY SHEETING AS NECESSARY TO CONSTRUCT STAGE 3 COFFERDAM.
	4.	CONSTRUCT TEMPORARY RETAINING WALL.
	5.	PLACE PRESTRESSED CONCRETE BOX BEAMS.

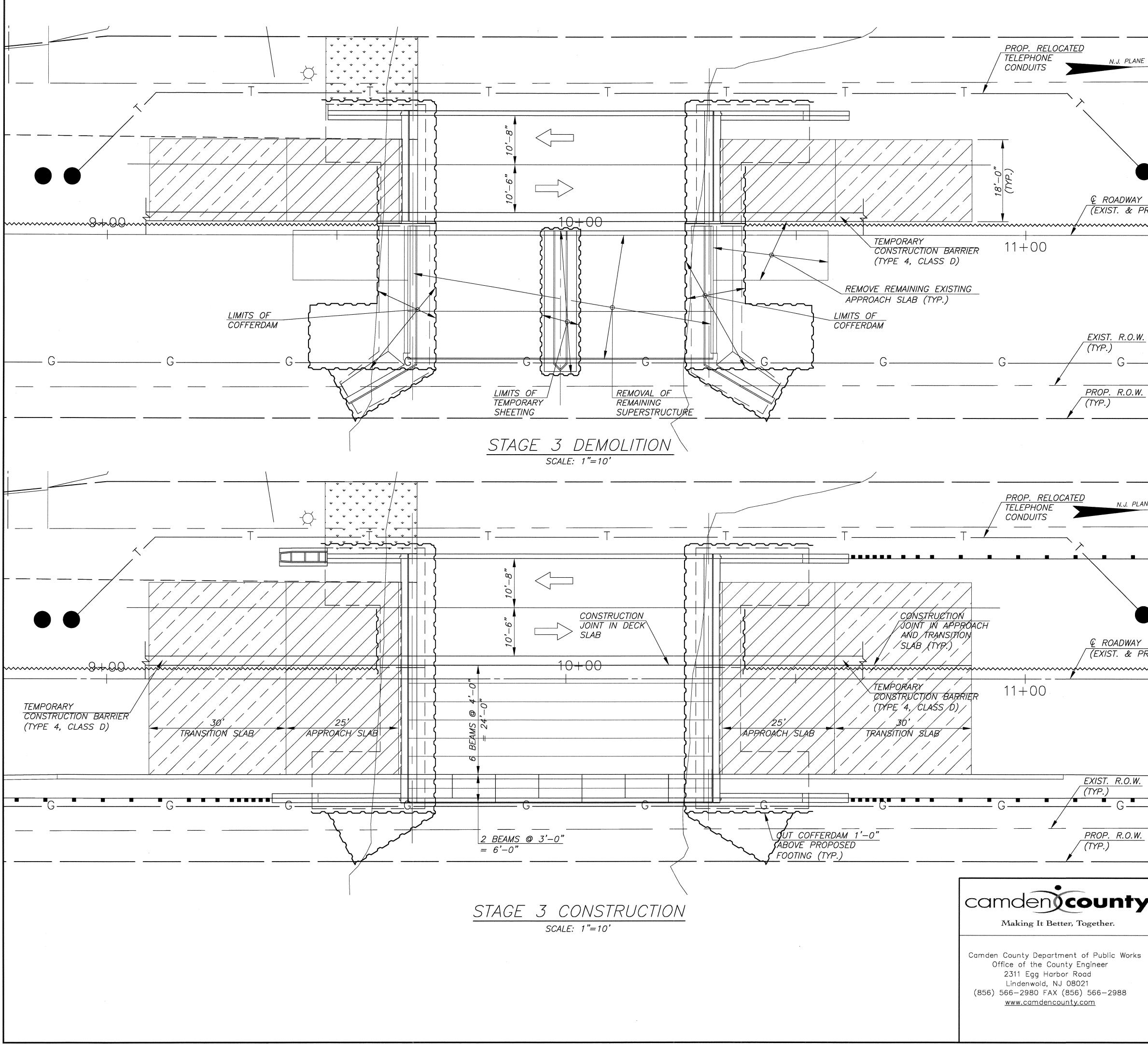
- 6. INSTALL TEMPORARY SHEETING AS NECESSARY TO CONSTRUCT STAGE 3 COFFERDAM.
- 7. CONSTRUCT DECK.
- 8. CONSTRUCT ABUTMENT BACKWALL.
- 9. CONSTRUCT APPROACH AND TRANSITION SLABS.

NOTES:

- 1. EXISTING PIER SHALL BE REMOVED TO 3'-0" BELOW STREAMBED.
- 2. UPON COMPLETION OF SUBSTRUCTURE PRIOR, TO SUPERSTRUCTURE CONSTRUCTION, COFFERDAMS SHALL BE CUT TO 1'-O" ABOVE THE TOP OF FOOTING.
- 3. FOR MAINTENANCE AND PROTECTION OF TRAFFIC, SEE SHEETS TC-1 THRU TC-3.
- 4. FOR BRIDGE CONSTRUCTION STAGING SECTIONS, SEE SHEET B3.

B4

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		NO.		REV	/ISION		DAT	E BY	CHK.	ΒY
_	-NOTICE- THIS DRAWING AND ALL INFORMATION CONTAINED	CON	STRUC	TION S	STAGIN	g plai	N (1	OF	2)	
ity	HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN	REPLACEMENT OF BROADWAY (CR 551) BRIDGE OVER LITTLE TIMBER CREEK (STRUCTURE NO. 45A010) BOROUGH OF BROOKLAWN, CAMDEN COUNTY, NEW JERSEY								
Works	CONSENT OF CHERRY, WEBER & ASSOCIATES, P.C.	GREGORY D. BITSKO PROFESSIONAL ENGINEER, N.J. LIC. No. GE 035238								
88		CHERRY, WEBER & ASSOCIATES A Professional Corporation CONSULTING ENGINEERS - PLANNERS 20 GIBSON PLACE, SUITE 100 FREEHOLD, N.J. 07728 FAX: (732) 303-8710								
		SCALE: NOTED	DATE: 08/2011	DRAWN BY K.W.	DSGN. BY J.M.M.	CHK.'D BY J.M.C.	JOB NUM NJ-C-BB			

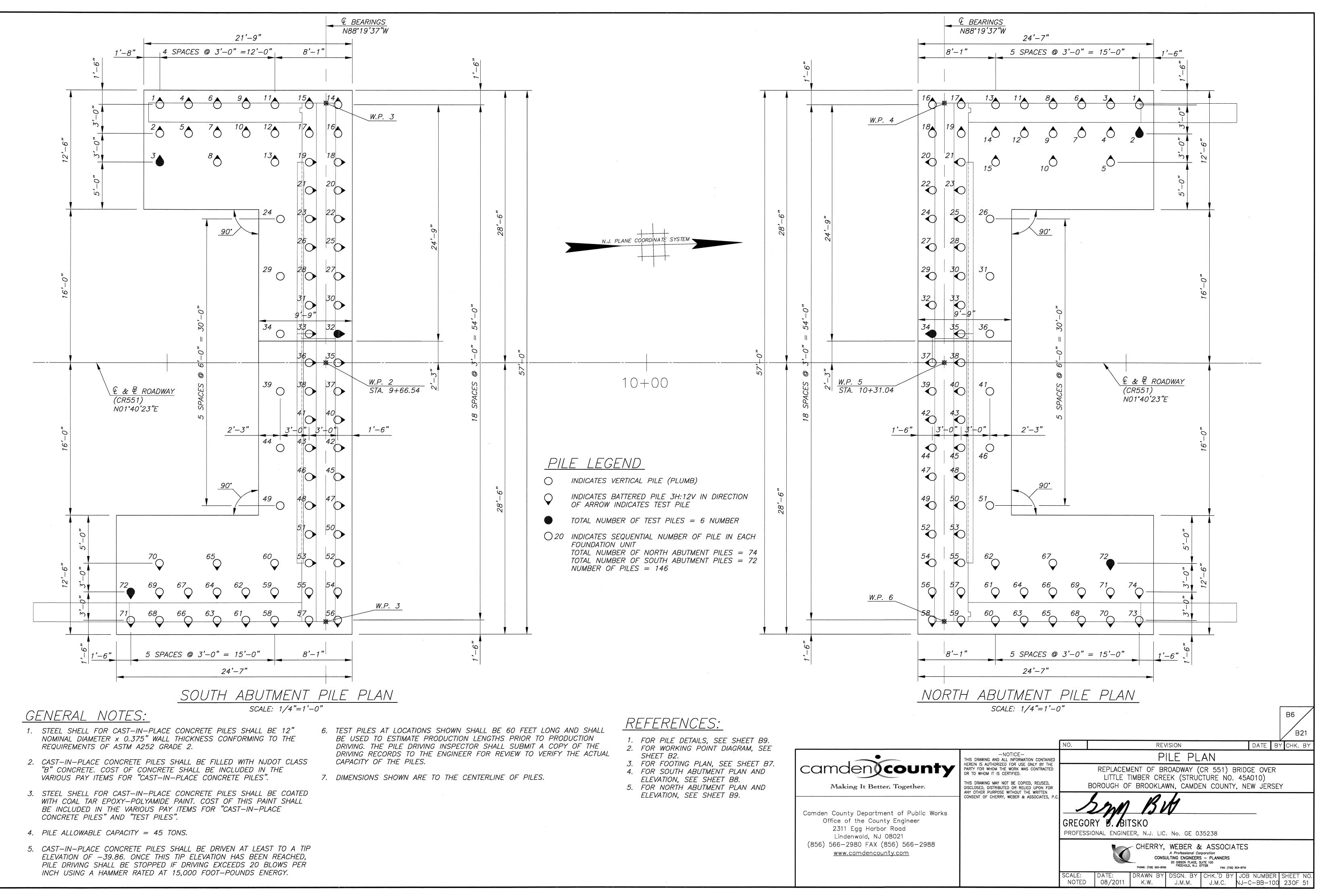


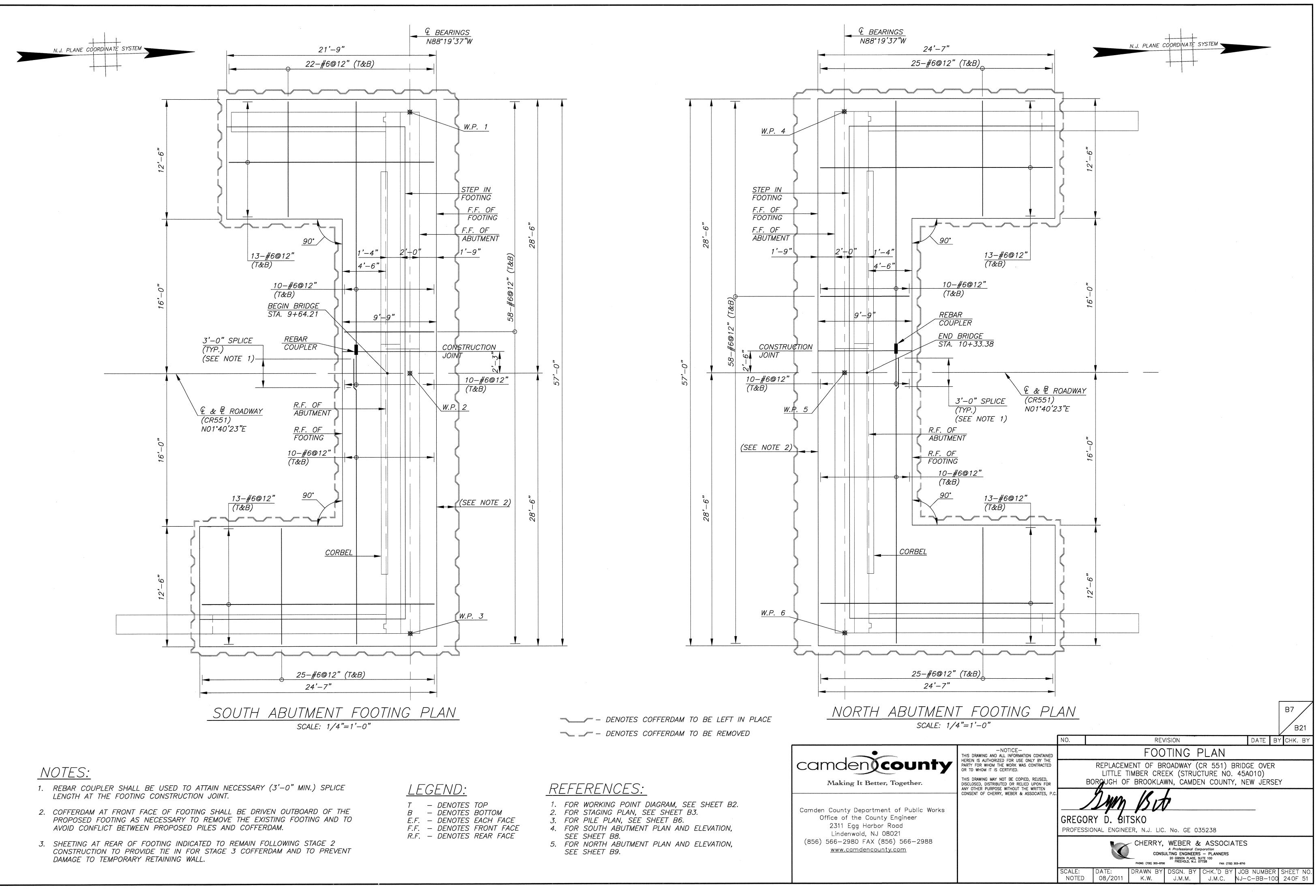
	DORDINATE SYSTEM	
IV. U. 1 LT		RECOMMENDED STAGE 3
		DEMOLITION STAGING:
、		1. DEMOLISH SUPERSTRUCTURE AND APPROACH SLABS TO LIMITS SHOWN.
		2. INSTALL TEMPORARY SHEETING AND COFFERDAM TO LIMITS SHOWN. EXISTING WINGWALLS AND SUBSTRUCTURE SHALL BE DEMOLISHED AS NECESSARY TO INSTALL COFFERDAM.
		3. DEMOLISH SUBSTRUCTURES.
ROADWAY IST. & PRO	<u>P.)</u>	4. REMOVE TEMPORARY SHEETING AT LOCATION OF PIER.
	·····	
TRO.W.		
<u>T. R.O.W.</u> 2.)		
_ (;		
P. <u>R.O.W.</u> .)		
N.I PLANE	COORDINATE SYSTEM	- RECOMMENDED STAGE 3
/		CONSTRUCTION STAGING:
	.	1. CONSTRUCT PROPOSED SUBSTRUCTURE TO LIMITS SHOWN.
L		2. CUT COFFERDAM 1'-O" ABOVE PROPOSED TOP OF FOOTING.
		3. PLACE PRESTRESSED CONCRETE BOX BEAMS.
		4. CONSTRUCT DECK.
		5. CONSTRUCT ABUTMENT HEADER.
ROADWAY IST. & PRO	<u>P.)</u>	6. CONSTRUCT APPROACH AND TRANSITION SLABS.
	NOTE	
		PIER SHALL BE REMOVED TO 3'-0" BELOW STREAMBED.
	SUPERSTI	RUCTURE CONSTRUCTION, COFFERDAMS SHALL BE CUT ABOVE THE TOP OF FOOTING.
T. R.O.W.		NTENANCE AND PROTECTION OF TRAFFIC, SEE SHEETS RU TC-3.
) - G	4. FOR BRID	DGE CONSTRUCTION STAGING SECTIONS, SEE SHEET B3.
P. R.O.W.		DE
)		B5 B21
		NO. REVISION DATE BY CHK. BY
	-NOTICE- THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED	CONSTRUCTION STAGING PLAN (2 OF 2)
er.	OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR	REPLACEMENT OF BROADWAY (CR 551) BRIDGE OVER LITTLE TIMBER CREEK (STRUCTURE NO. 45A010) BOROUGH OF BROOKLAWN, CAMDEN COUNTY, NEW JERSEY
	ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF CHERRY, WEBER & ASSOCIATES, P.C.	
olic Works		

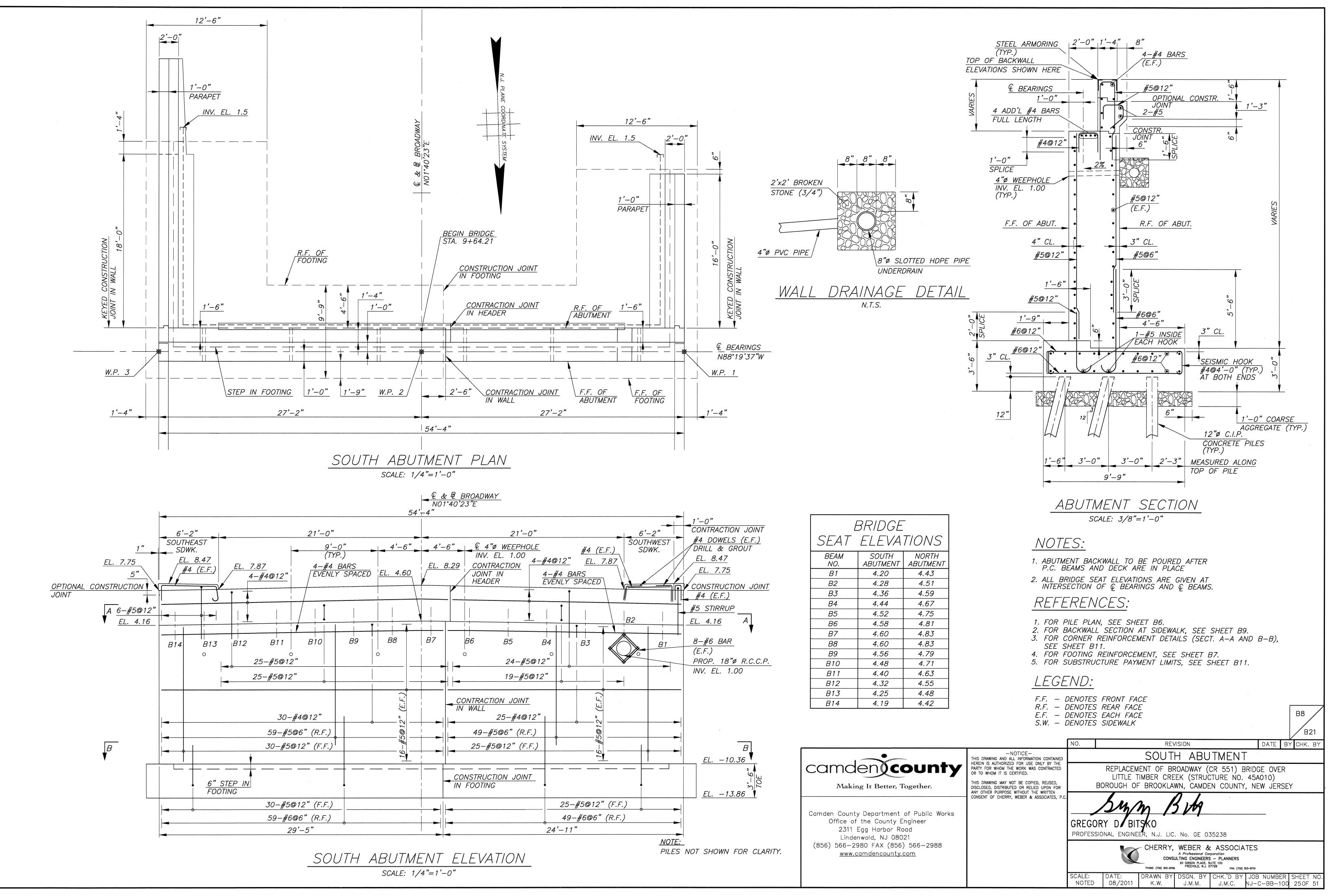
CHERRY, WEBER & ASSOCIATES *A Professional Corporation* CONSULTING ENGINEERS - PLANNERS 20 GIBSON PLACE, SUITE 100 FREEHOLD, N.J. 07728 FAX: (732) 303-8710 DRAWN BY DSGN. BY CHK.'D BY JOB NUMBER SHEET NO. K.W. J.M.M. J.M.C. NJ-C-BB-100 220F 51 SCALE: DATE: NOTED 08/2011

PROFESSIONAL ENGINEER, N.J. LIC. No. GE 035238

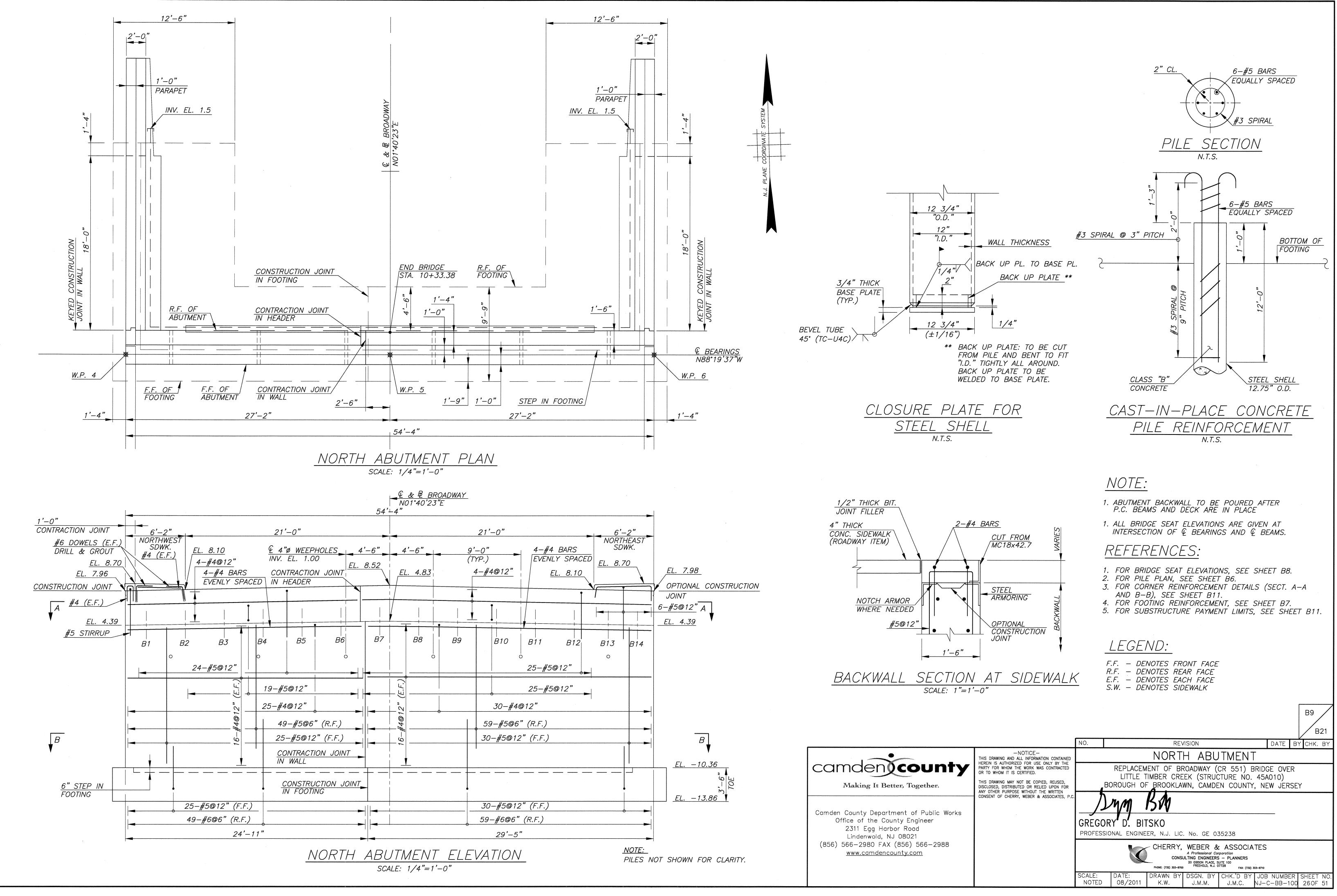
GREGORY D. BITSKO

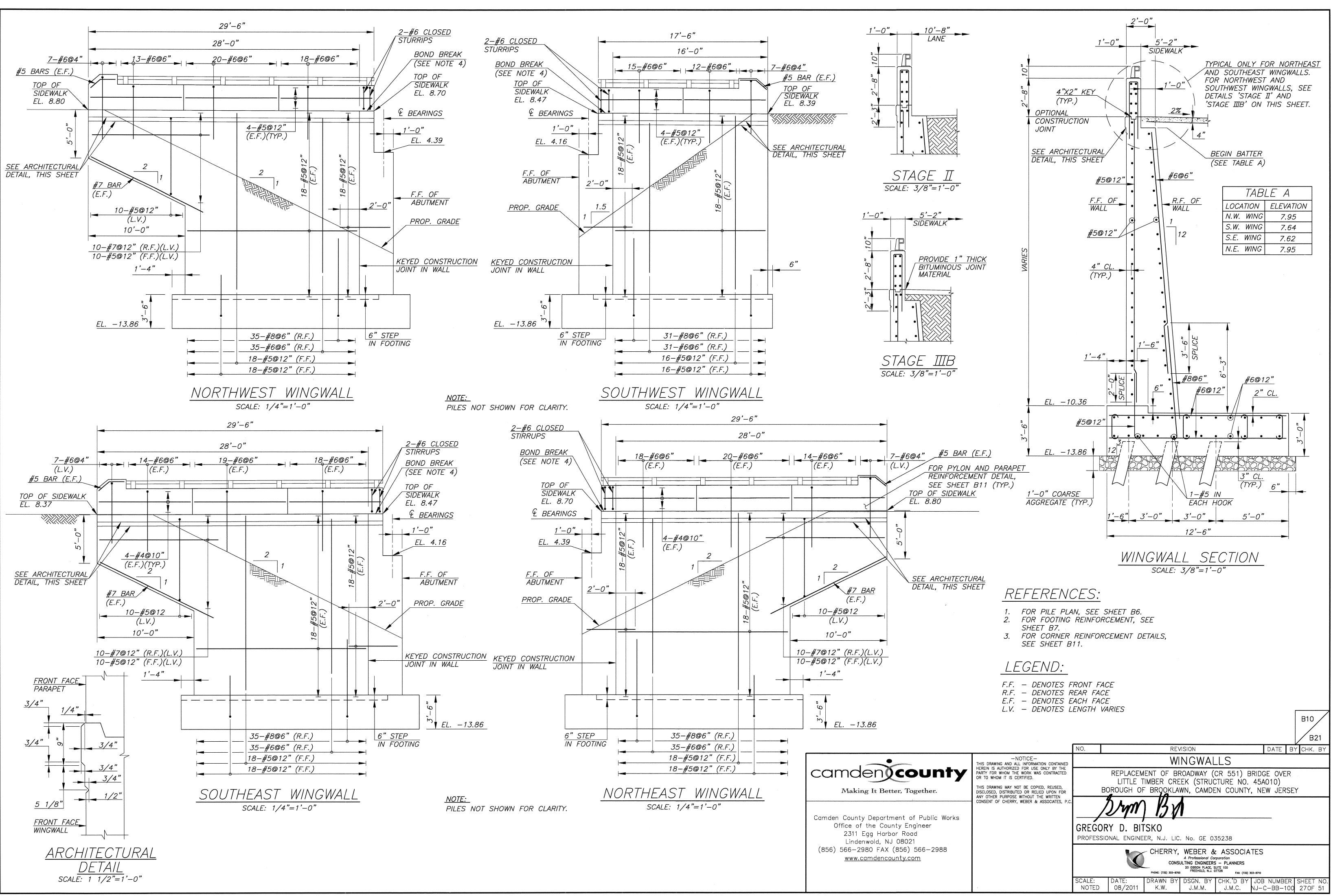




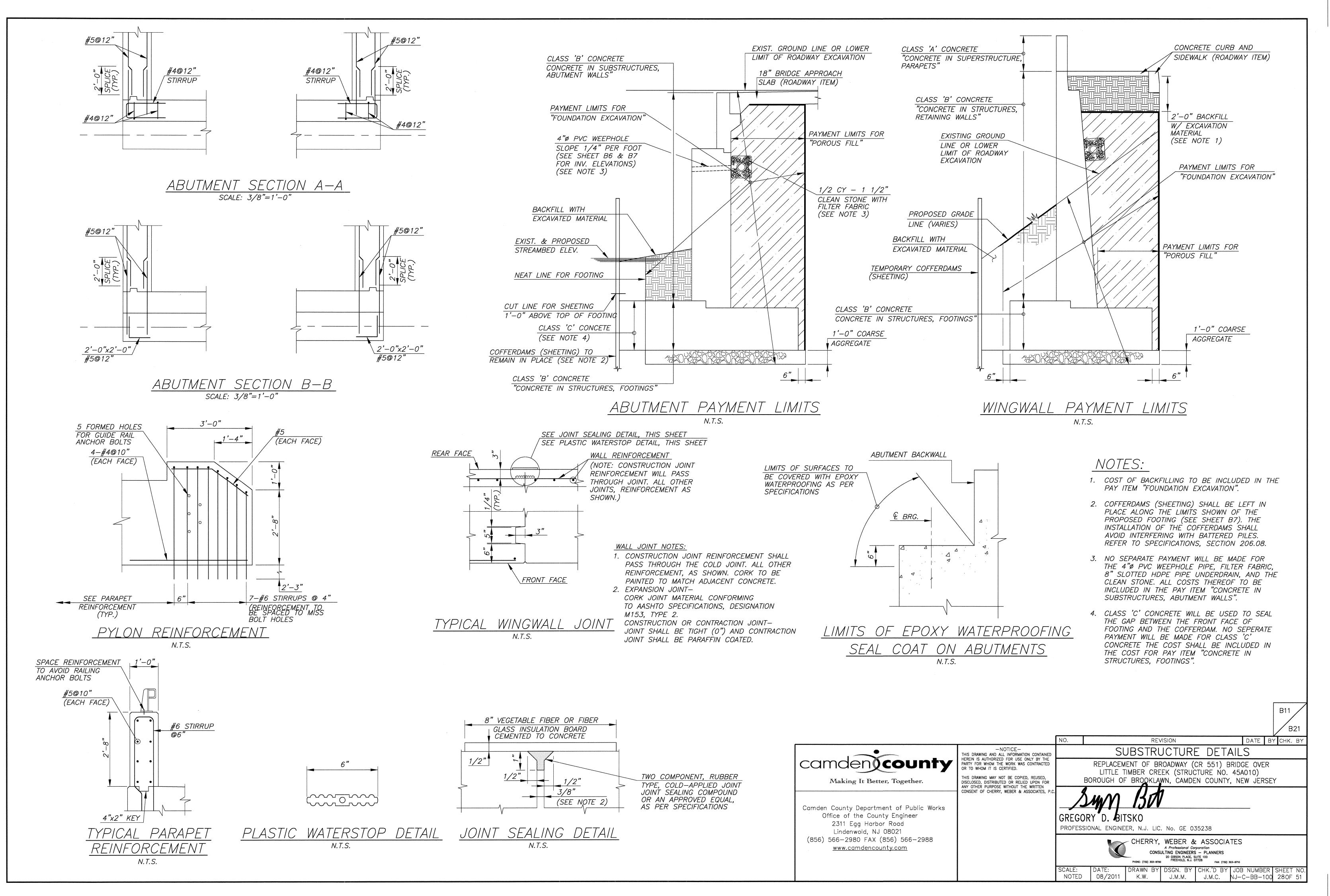


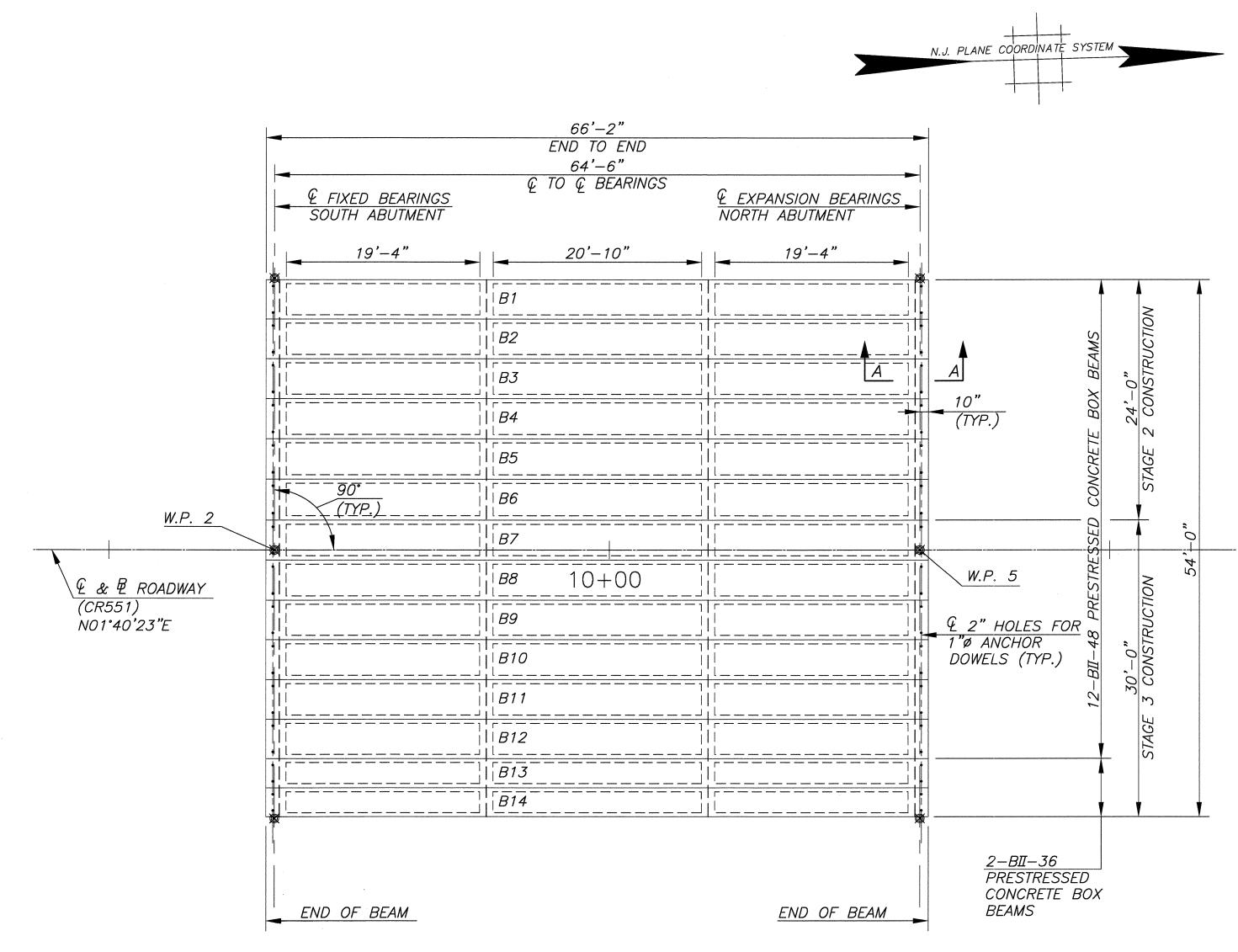
		-
	BRIDGE	
SEAT	ELEVA	TION.
BEAM	SOUTH	NORT
<i>NO</i> .	ABUTMENT	ABUTME
B1	4.20	4.43
B2	4.28	4.51
B3	4.36	4.59
B4	4.44	4.67
B5	4.52	4.75
<i>B6</i>	4.58	4.81
<i>B7</i>	4.60	4.83
<i>B8</i>	4.60	4.83
<i>B9</i>	4.56	4.79
B10	4.48	4.71
B11	4.40	4.63
B12	4.32	4.55
B13	4.25	4.48
B14	4.19	4.42



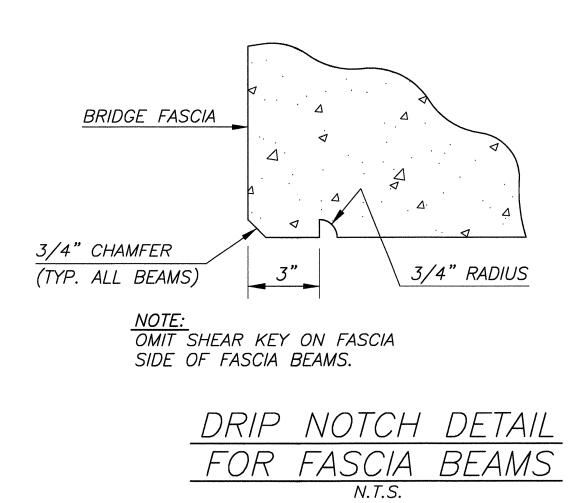


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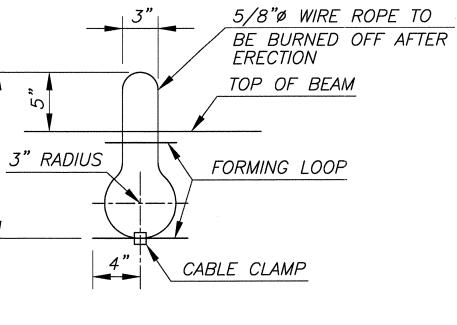




FRAMING PLAN SCALE: 1/8"=1'-0"



2





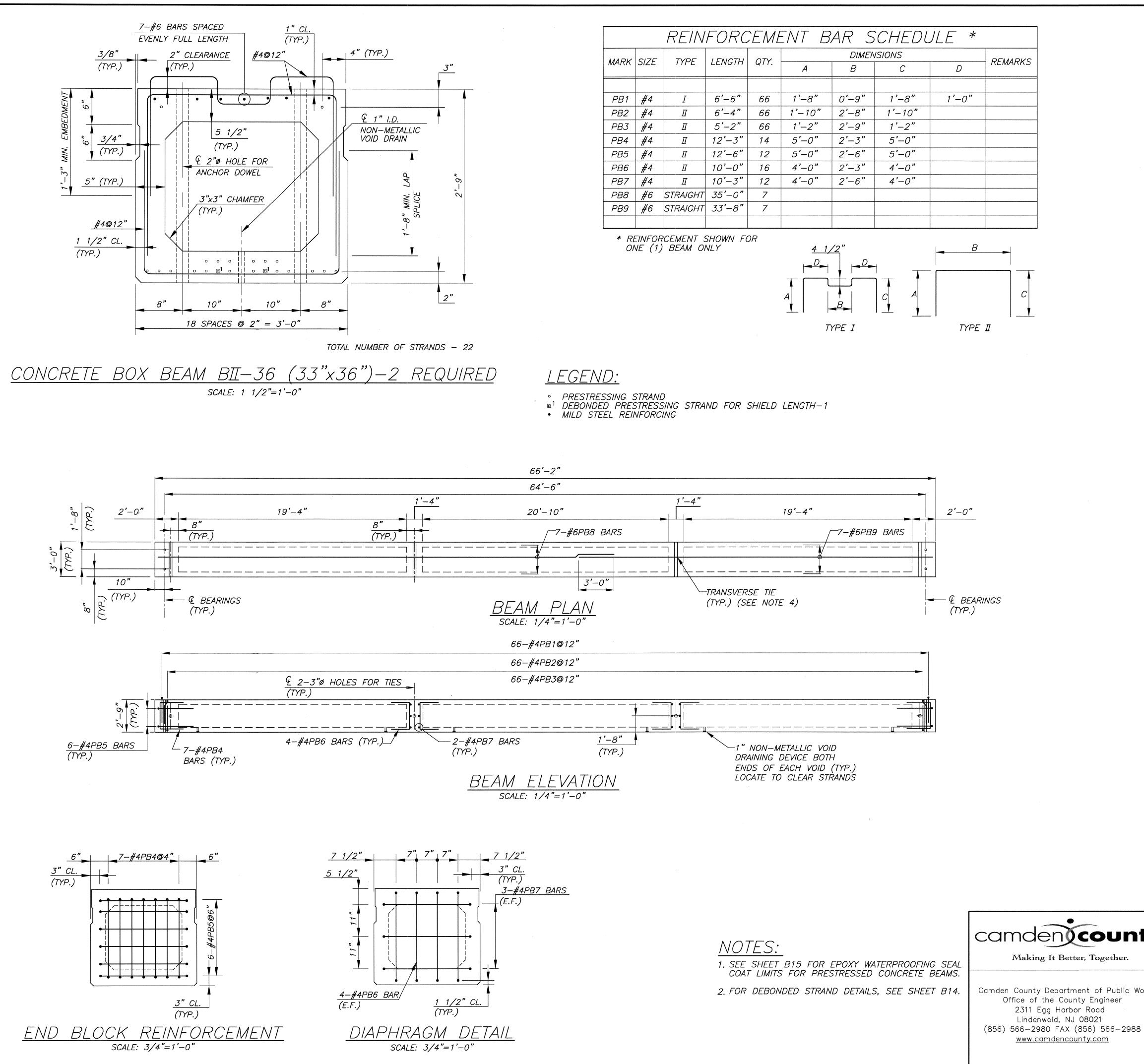
SEE S

BACKWALL TO BE PO AFTER P.S. BEAMS AN OVERLAY SLAB ARE IN 3"ø TRANSVE TIE DUCT (T

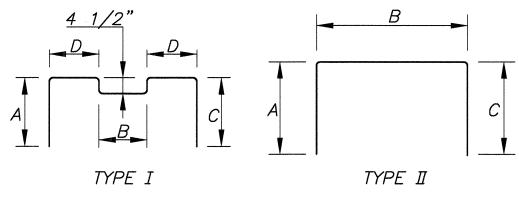
€ 2"ø HOLE IN ABU SEAT TO BE DRILLED CORED, FOR 1" Ø AN DOWELS. AFTER BEAM ERECTED AND TRANS TIES TIGHTENED, FILL NON–SHRINK GROUT.



	E BEA	RING						
SHEET B17 FOR								
JOINT DETAILS	5" (N			FILL 2"ø	REAM HO	IFS WITH	NON-	
UUINI DETAILU	CONC	RETE SLA	В	SHRINK G				
				EPOXY MO				
ND				MASTIC OI			JBBER	
IN PLACE		r		ASPHALT EXPANSIO				
ERSE					IN LIND. (· · · · <i>·</i> ·		
YP.) 2" M			4					
$\left(\frac{2}{(TYF)}\right)$								
		1'-0"		<u>1" I.D. NC</u>				
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YP.)			EA	CH VOID.	LOCATE T	Γ <u></u>		
-0"			CL	EAR STRAI	NDS (TYP	?.)		
-0 YP.)								
			TRANSVEI	RSE TIE FO	OR			
				CONSTRUC				
TMENT			(BEAMS I	31 <i>B6 O</i> N	ILY)			
D OR	>		~		-			
NCHOR		\	GALVANIZ	ED DOWEL	S			
MS ARE SVERSE		2 F	PER BEAM					
WITH								
. (TYP.)								
	SECTION A	A - A						
-	SCALE: 3/4"=1'	-0"						
		-						
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								B12
								B21
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		NO.			ISION		DATE B	Ү СНК. ВҮ
	-NOTICE-			FRA	MING	PLAN		
PARTY FOR	AUTHORIZED FOR USE ONLY BY THE WHOM THE WORK WAS CONTRACTED		REPLACEM	ENT OF BR	ROADWAY (CR 551) B	RIDGE OVER	
THIS DRAW	DM IT IS CERTIFIED. NG MAY NOT BE COPIED, REUSED,	_	LITTLE T	IMBER CRE	EK (STRUC	CTURE NO.	45A010)	
 DISCLOSED, 	DISTRIBUTED OR RELIED UPON FOR PURPOSE WITHOUT THE WRITTEN	<u>В</u>	UKUUGH OF	RKOOKLAN	WN, CAMDE	N COUNTY	, NEW JERSE	.Y
	F CHERRY, WEBER & ASSOCIATES, P.C		An MA.		4			
c Works			M	JJV	1			
		GREGOE	RY D. BIT	SKO				
			ONAL ENGINE		No GE O	35238		
988							TEO	
					A Professional Co	c ASSOCIA	IES	
					JLTING ENGINEERS 20 GIBSON PLACE, S	S – PLANNERS		
		SCALE:	DATE:	PHONE: (732) 303-8700		FRA: (732) 3		CHEET NO
		NOTED	08/2011	K.W.	DSGN. BY J.M.M.		JOB NUMBER NJ-C-BB-100	



	REINFORCEMENT BAR SCHEDULE *										
	CIZE		LENGTH	QTY.		DIMEN	ISIONS		DEMADIZE		
MARK	SIZE	TYPE	LENGIA	QTT.	A	В	С	D	REMARKS		
PB1	#4	Ι	6'-6"	66	1'-8"	0'-9"	1'-8"	1'-0"			
PB2	#4	П	6'-4"	66	1'-10"	2'-8"	1'-10"				
PB3	#4	П	5'-2"	66	1'-2"	2'-9"	1'-2"				
PB4	#4	П	12'-3"	14	5'-0"	2'-3"	5'-0"				
PB5	#4	П	12'-6"	12	5'-0"	2'-6"	5'-0"				
PB6	#4	П	10'-0"	16	4 <i>`</i> -0"	2'-3"	4'-0"				
PB7	#4	П	10'-3"	12	4 <i>`</i> -0"	2'-6"	4 <i>`</i> -0"				
PB8	#6	STRAIGHT	35'-0"	7							
PB9	#6	STRAIGHT	33'-8"	7							



PRECAST BOX BEAM NOTES:

1. CONCRETE:

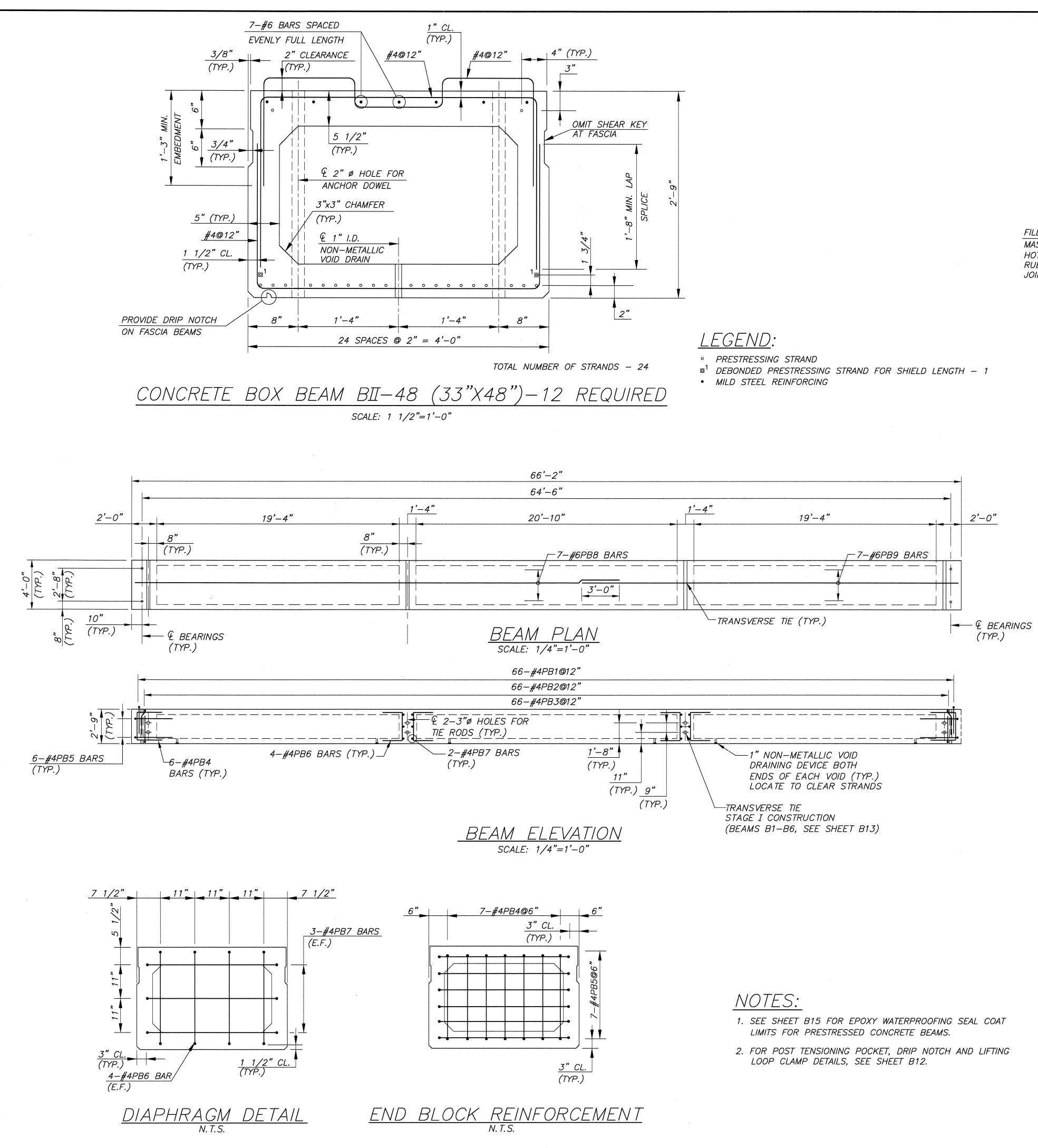
SPECIFIED DESIGN COMPRESSIVE STRENGTH (f'c) (IN ACCORDANCE WITH THE RETEST LIMIT FOR PAY ADJUSTMENT ITEMS AS SPECIFID IN TABLE 914.4 OF THE NJDOT STANDARD SPECIFICATIONS AND AS MODIFIED BY THE SUPPLEMENTARY SPECIFICATIONS)

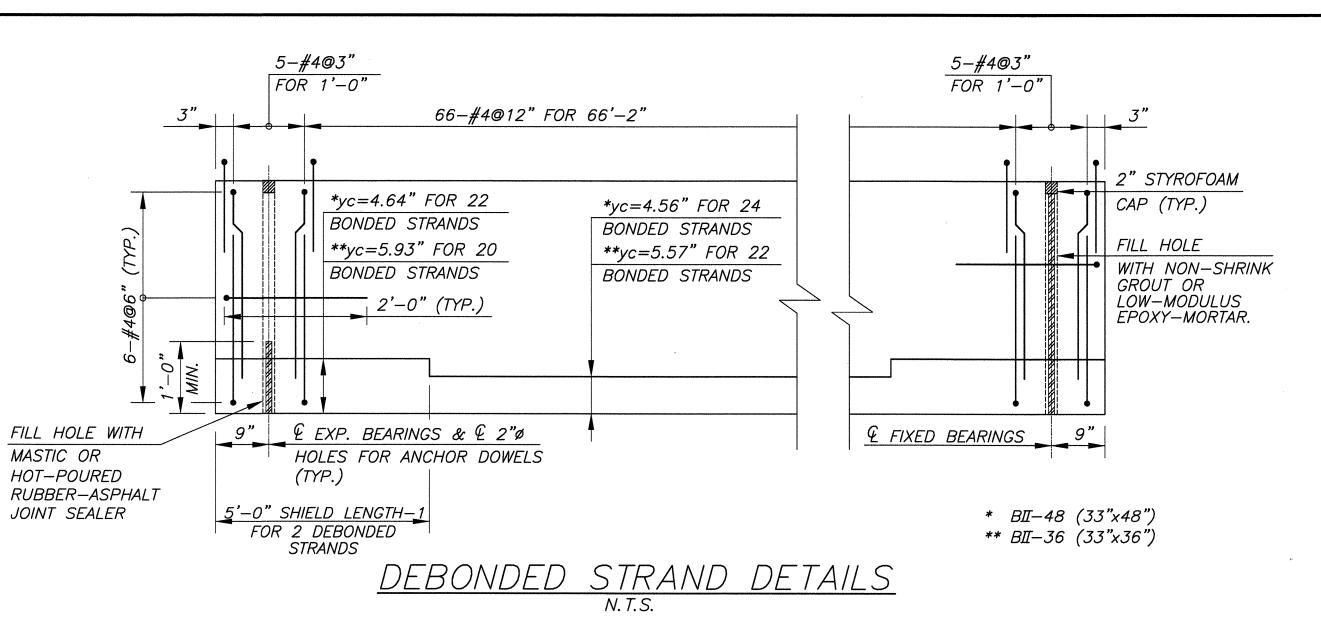
@28 DAYS: 5000 PSI (CLASS P) @TRANSFER: 4000 PSI (CLASS P) CLASS DESIGN STRENGTH (28 DAYS): 5500 PSI (CLASS P)

2. STEEL:

- A. 7 WIRE 1/2"Ø LOW RELAXATION STRANDS, A=0.153 IN², ULTIMATE STRENGTH = 41,300 LBS (GRADE 270).
- B. FORCE @ PRETENSIONING = 29.0 KIPS PER STRAND. C. REINFORCEMENT DOWELS AND MILD STEEL REINFORCEMENT IN P.C. BEAMS TO BE INCLUDED IN ITEM:
- PRESTRESSED CONCRETE BOX BEAMS. D. ALL MILD REINFORCING STEEL SHALL BE GRADE 60, UNCOATED. EXPOSED PORTIONS OF STIRRUPS FOR COMPOSITE ACTION SHALL BE CLEANED AND GIVEN TWO (2) COATS OF ZINC RICH PAINT.
- 3. BEAMS TO BE ERECTED BY MEANS OF LIFTING DEVICES LOCATED AT ENDS OF BEAMS.
- 4 TRANSVERSE TIES SHALL BE 7-WIRE, 1/2" DIA., 270 KSI POLYSTRAND CP (OR APPROVED EQUAL) WITH FORCE AT TENSION = 43 KIPS. USE 3 STRANDS PER DUCT. PRECAUTION SHALL BE TAKEN TO PREVENT DAMAGE TO CONCRETE UNDER BEARING PLATES.
- 5. PAYMENT FOR THE FOLLOWING SHALL BE INCLUDED IN THE ITEM: PRESTRESSED CONCRETE BOX BEAMS (TYPE B#-36), 33" X 36" OR OR (TYPE BII-48), 33" X 48" ITEM: ELASTOMERIC BEARING PADS, NONSHRINK GROUT, THREADED INSERTS, TRANSVERSE TIES, SHOP COAT EPOXY WATERPROOFING SEAL COAT, ALL REINFORCEING STEEL IN BOX BEAMS ANCHOR DOWELS INCLUDING DRILLING AND PLATE WITH STUDS FOR ARMORED JOINT.
- 6. SHEAR KEYS TO BE SAND BLASTED PRIOR TO PLACING GROUT. TRANSVERSE TIES SHALL BE INSTALLED THROUGH PREFORMED HOLES AND TENSIONED BEFORE THE LONGITUDINAL KEYWAY BETWEEN ADJACENT PRESTRESSED BOX BEAMS ARE GROUTED.
- 7. SUBSEQUENT TO PLACING P.C. BEAMS, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE BEAMS AT THE 1/4 POINTS TO FINALIZE THE DECK PROFILE. THE CONTRACTOR SHALL NOT POUR THE DECK UNTIL GIVEN AUTHORIZATION BY THE ENGINEER.
- 8. TOP OF BEAMS TO RECEIVE A "ROUGHENED SURFACE".
- 9. ALL EXPOSED CORNERS SHALL BE CHAMFERED 1", UNLESS OTHERWISE NOTED.

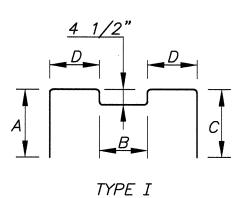
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-NOTICE- THIS DRAWING AND ALL INFORMATION CONTAINED BII-36 BEAM DETAILS	
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consent of cherry, weber & associates, p.c.	
GREGORY D. BITSKO PROFESSIONAL ENGINEER, N.J. LIC. No. GE 035238	
CHERRY, WEBER & ASSOCIATES A Professional Corporation CONSULTING ENGINEERS - PLANNERS 20 GIBSON PLACE, SUITE 100 FREEHOLD, N.J. 07728 FAX: (732) 303-8710	
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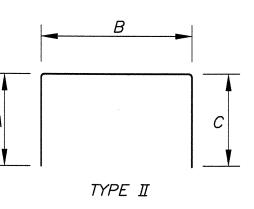




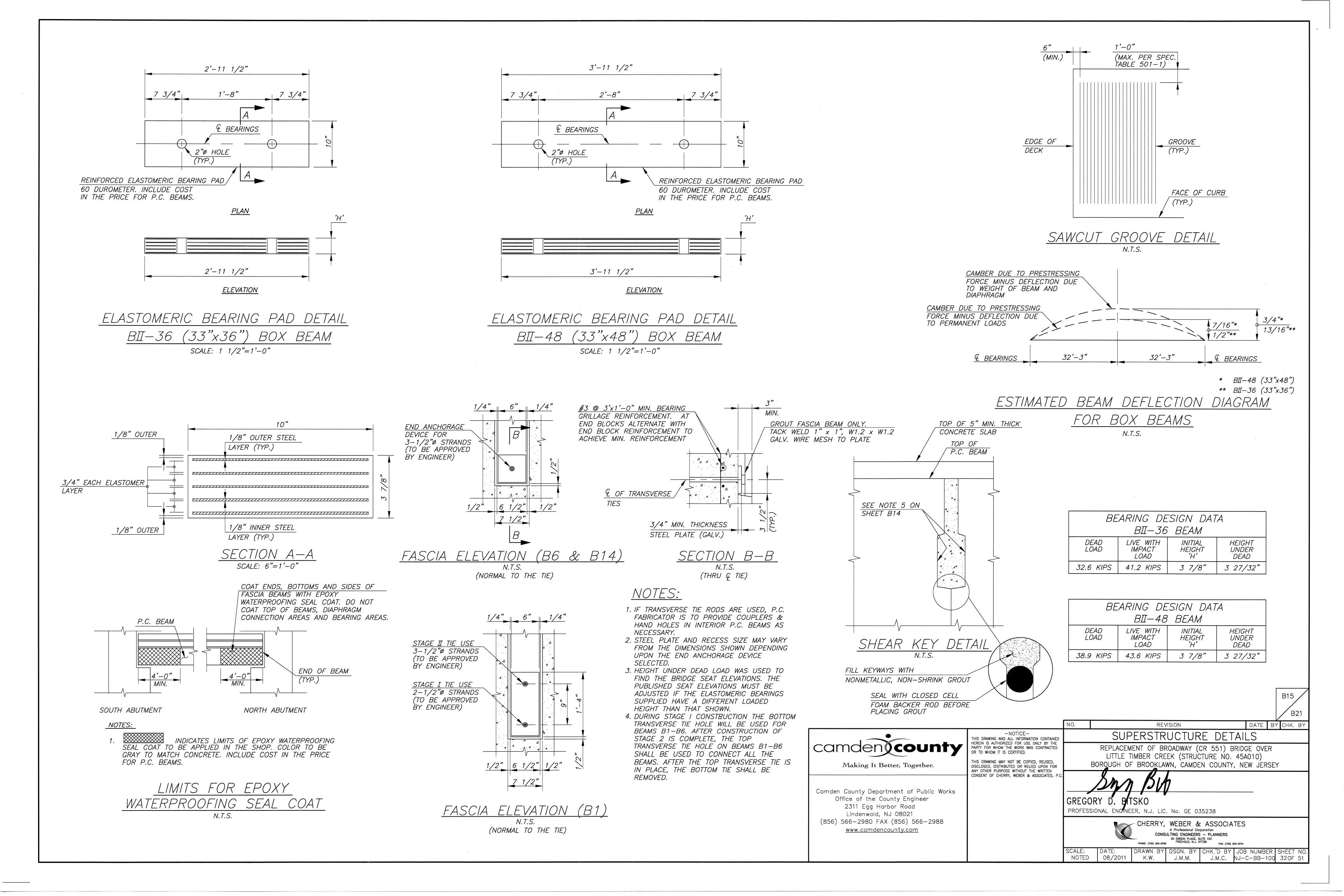


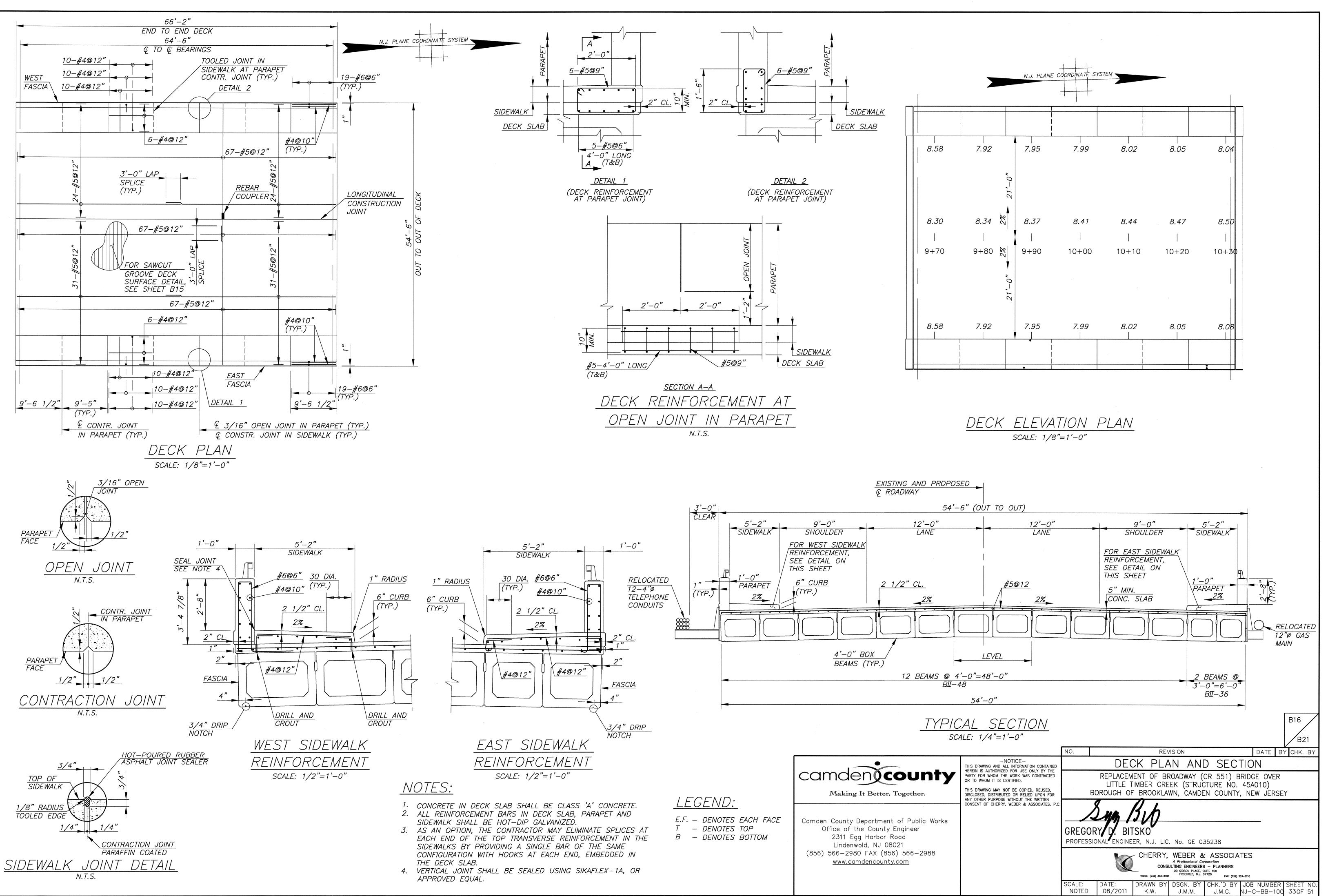
MARK	SIZE	TYPE	LENGTH	QTY.					
					A	В	С	D	REMARKS
PB1	#4	I	7'–8"	66	1'-8"	0'-9"	1'-8"	1'-2 1/2"	
PB2	#4	Ш	8'–2"	66	1'-10"	2'-8"	1'-10"		
PB3	#4	Ш	7'-10"	66	1'-2"	2'-9"	1'-2"		
PB4	#4	Ш	12'–3"	14	5'-0"	2'-3"	5'-0"		
PB5	#4	Ш	13'-6"	12	5'-0"	3'-6"	5'-0"		
PB6	#4	Ш	10'-3"	16	4'-0"	2'-3"	4'-0"		
PB7	#4	Ш	11'-6"	12	4'-0"	3'-6"	4'-0"		
PB8	#6	STRAIGHT	35'-0"	7					
PB9	#6	STRAIGHT	33'-8"	7					

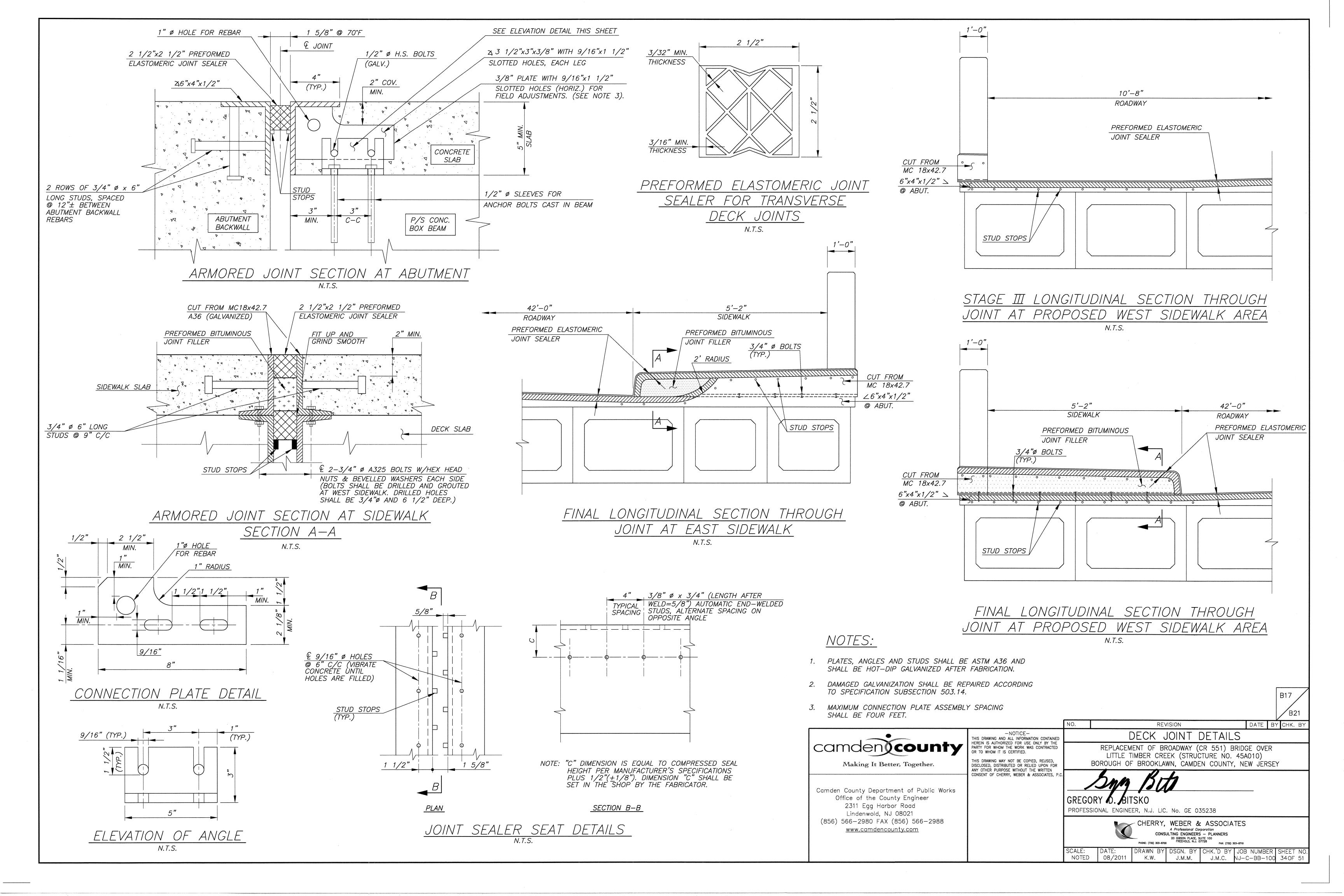


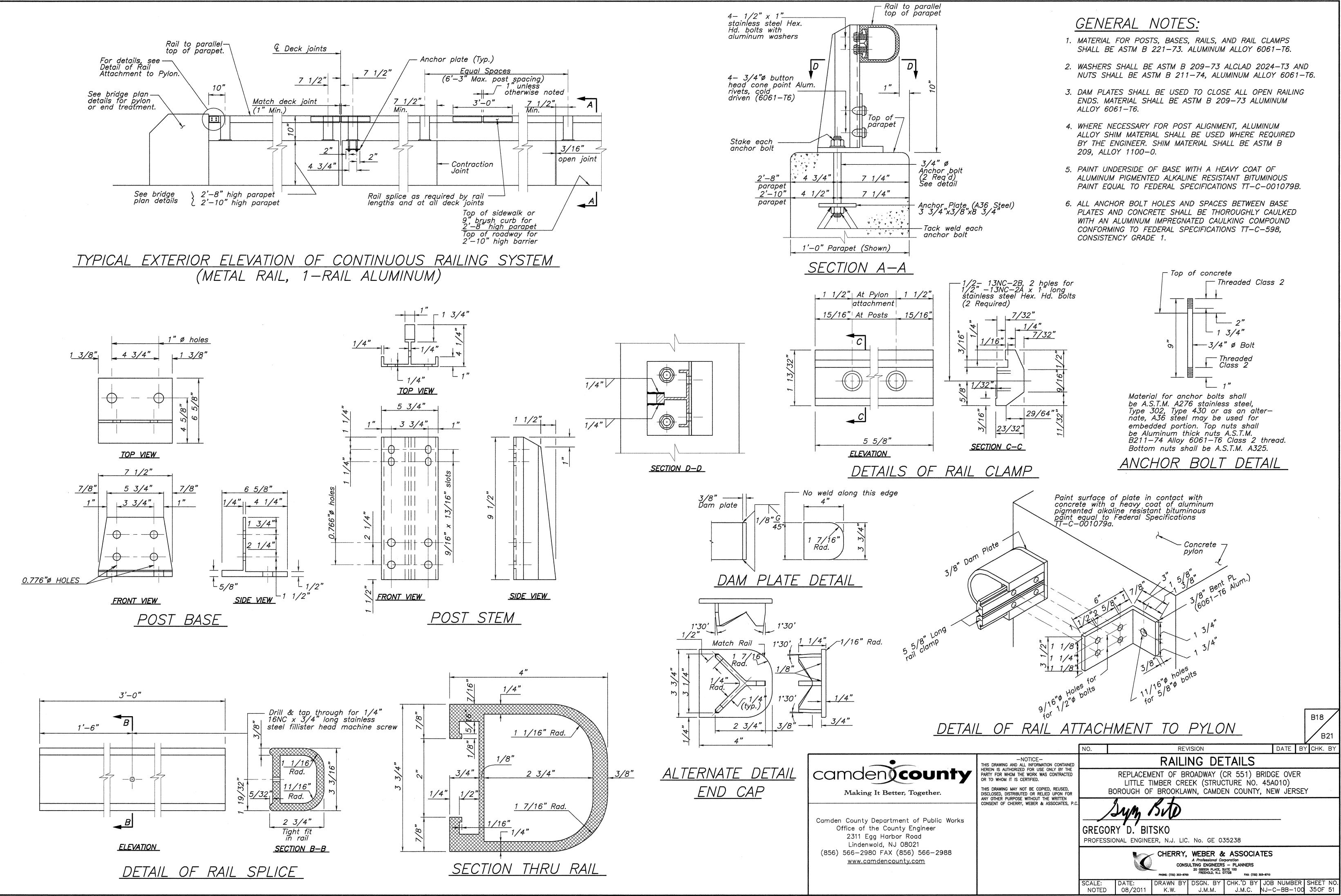


									B14 B21
		NO.		REV	ISION		DATE	ΒY	CHK. BY
_	NOTICE THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR	BI-48 BEAM DETAILS							
nty		REPLACEMENT OF BROADWAY (CR 551) BRIDGE OVER LITTLE TIMBER CREEK (STRUCTURE NO. 45A010) BOROUGH OF BROOKLAWN, CAMDEN COUNTY, NEW JERSEY							
c Works	ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF CHERRY, WEBER & ASSOCIATES, P.C.	GREGO	DRY D. BK	JBV SKO	6				
		PROFESSIONAL ENGINEER, N.J. LIC. No. GE 035238							
988		CHERRY, WEBER & ASSOCIATES A Professional Corporation CONSULTING ENGINEERS - PLANNERS 20 GIBSON PLACE, SUITE 100 FREEHOLD, N.J. 07728 FAX: (732) 303-8710							
		SCALE: NOTED	DATE: 08/2011	DRAWN BY K.W.	DSGN. BY J.M.M.		B NUMB		SHEET NO. 310F 51

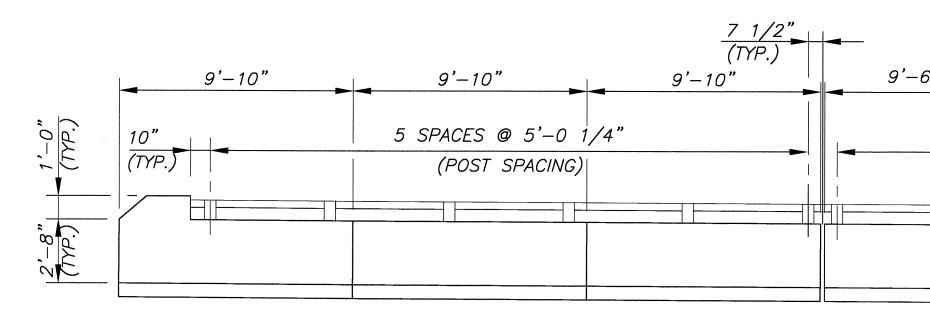


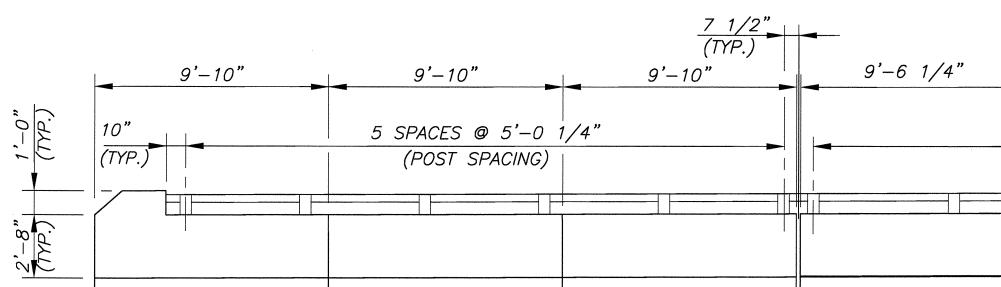


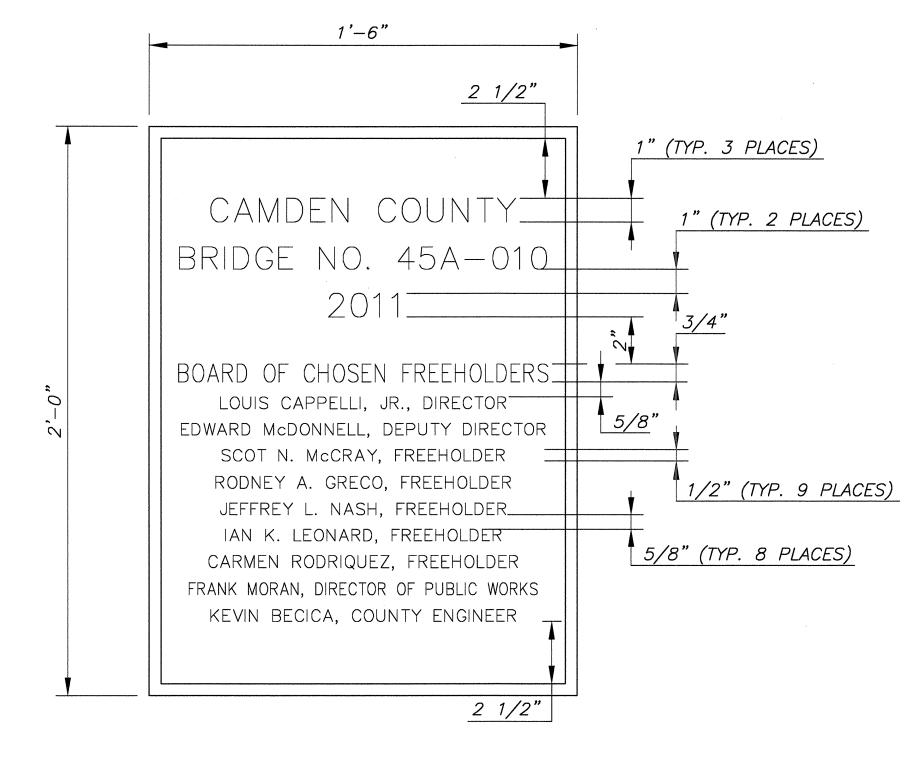












NAME PLAQUE DETAIL N.T.S.

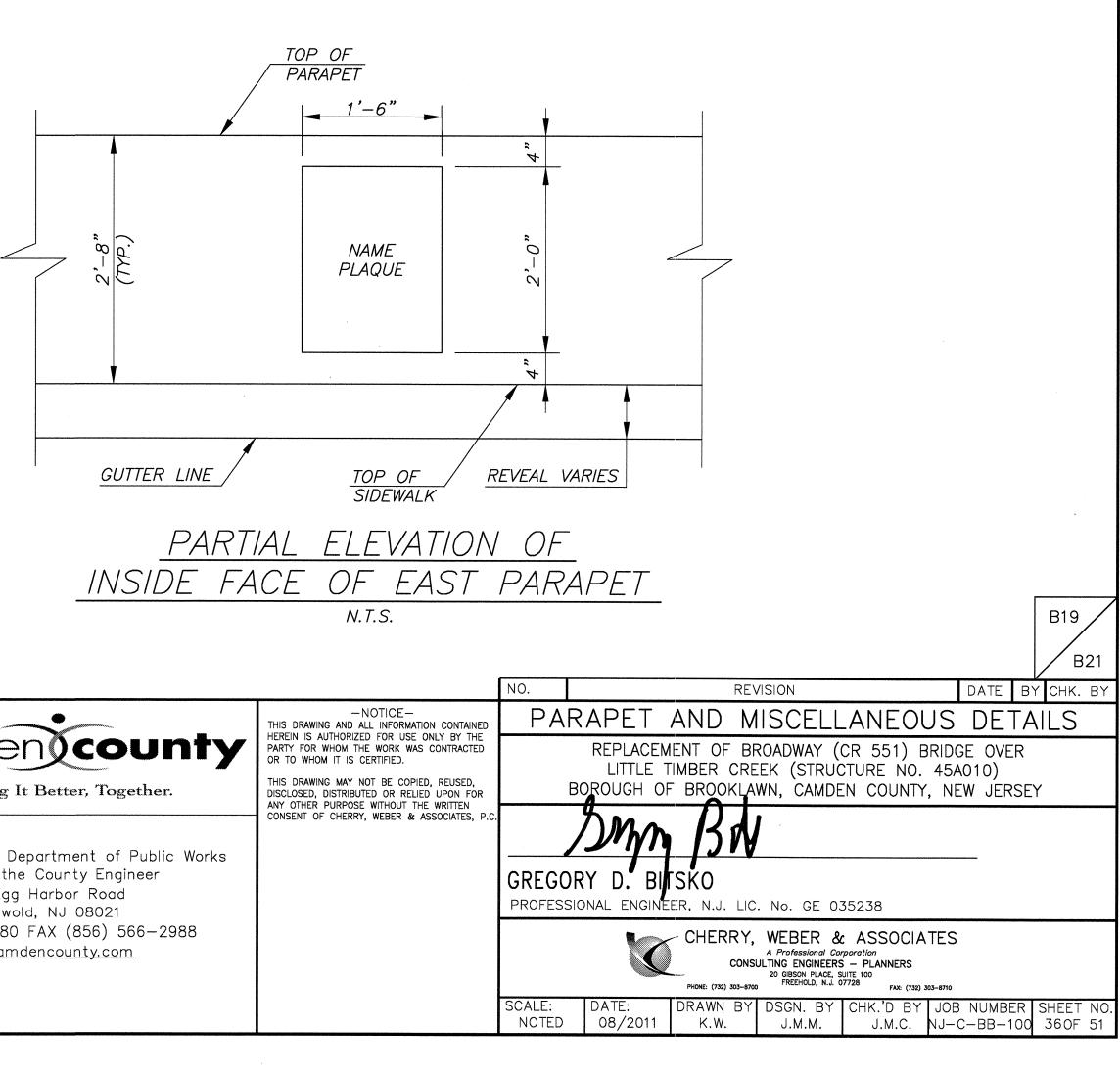
6 1/4"	9'-5"	9'-5"	9'-5"	9'-5"	<i>9'</i> -5"
			11 SPACES @ 5'-11"		
			(POST SPACES @ 5 = 11 (POST SPACING)		

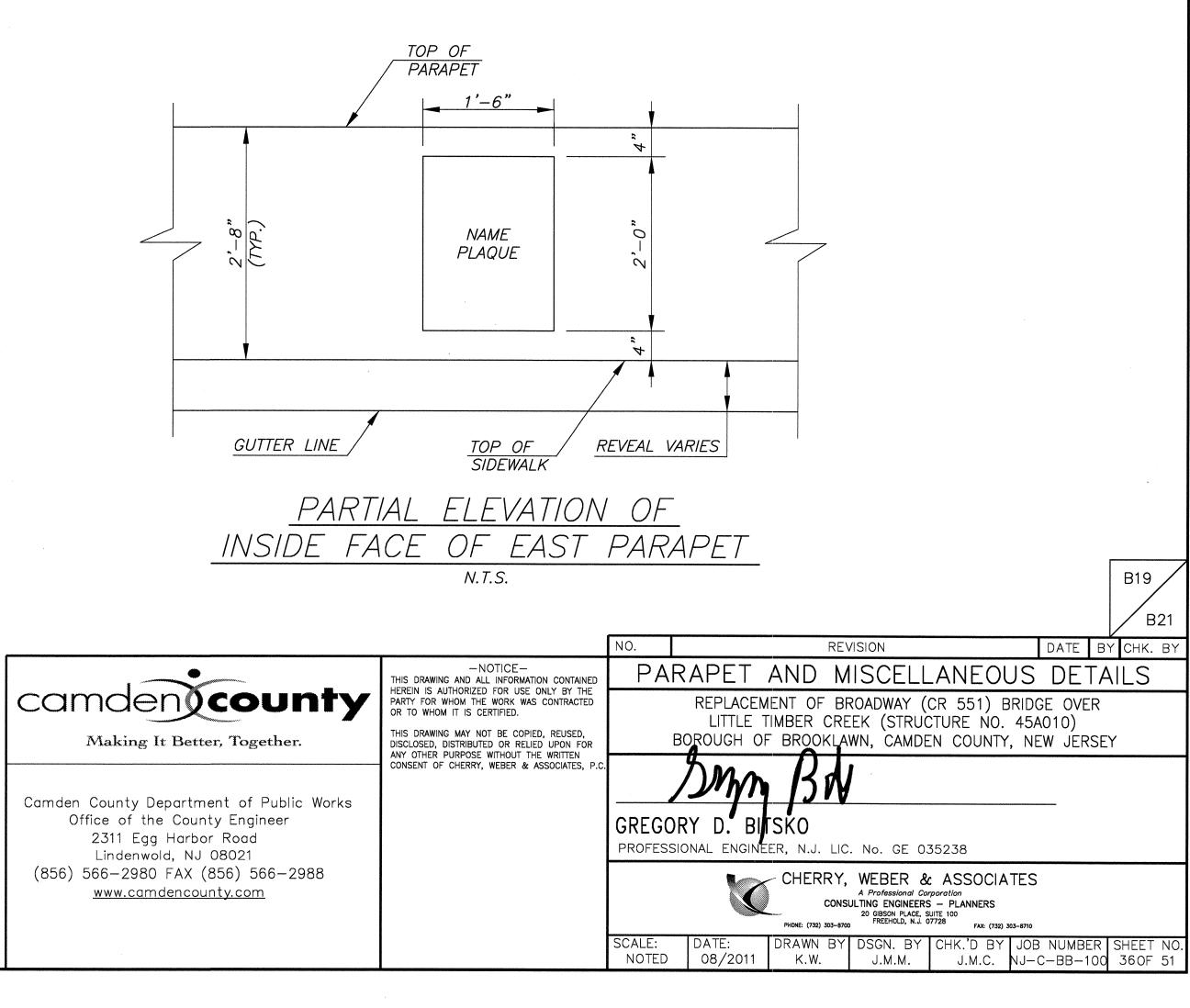
WEST PARAPET ELEVATION (LOOKING EAST) SCALE: 1/4"=1'-0"

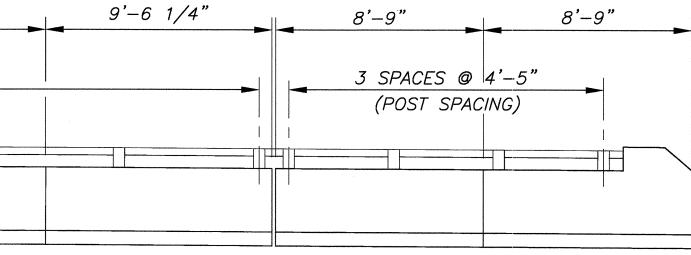
9'-5"	9'-5"	9'-5"	9'-5"	9'-5"	
		11 SPACES @ 5'-11"			
		(POST SPACING)			
 		<u> </u>			
· · · · · · · · · · · · · · · · · · ·					
		4'-8 1/2"			
	FAST PARAPE	PLAQU			
-	(LOOKING) SCALE: 1/		-		
				I	

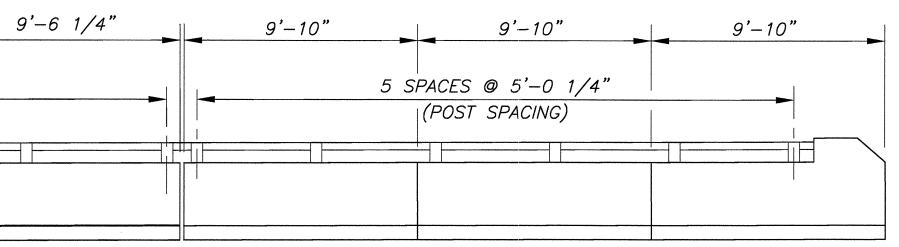
PARAPET/PLAQUE NOTES:

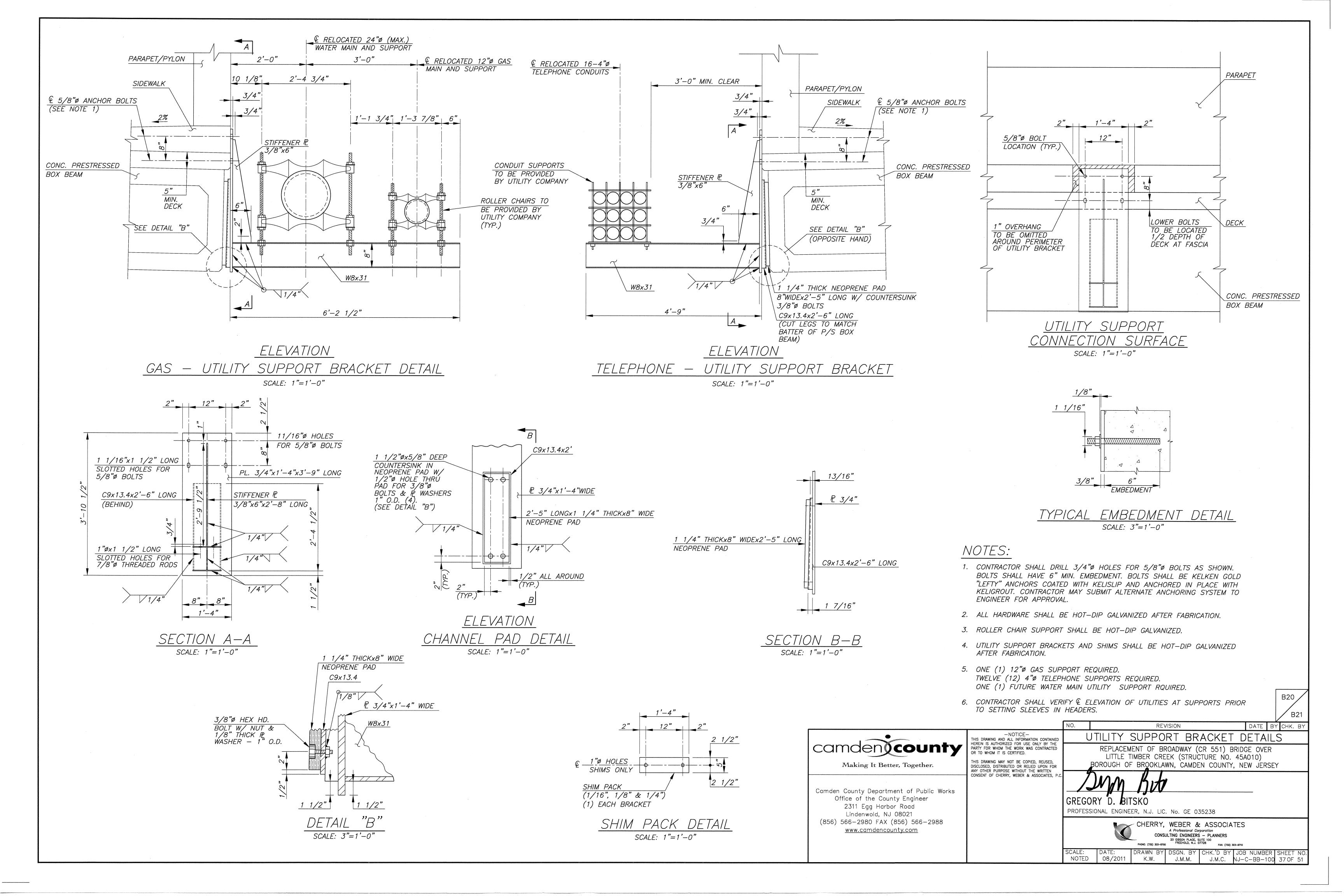
- 1. PLAQUE SHALL BE POLISHED BLACK GRANITE OF 1"+ THICKNESS.
- 2. PLAQUE SHALL BE RECESSED IN PARAPET TO PROVIDE FOR A FLUSH FRONT SURFACE.
- 3. ATTACHMENT STUDS FOR PLAQUE AS SUPPLIED BY PLAQUE FABRICATION SHALL BE POSITIONED TO CLEAR PARAPET REINFORCEMENT STEEL. EPOXY TYPE MATERIAL BE USED TO ATTACH PLAQUE.
- 4. PROVIDE RUBBINGS PRIOR TO MANUFACTURING OF PLAQUE.
- 5. COST OF PLAQUE AND INSTALLATION SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 6. BRIDGE PLAQUE TO BE MOUNTED AS SHOWN, OR AS DIRECTED BY THE ENGINEER.
- 7. GUIDE RAIL ATTACHMENTS AND ALUMINUM BRIDGE RAILING NOT SHOWN FOR CLARITY.
- 8. THE ENGRAVING ON THE PLAQUE SHALL BE APPROVED BY THE COUNTY ENGINEER PRIOR TO MANUFACTURING.

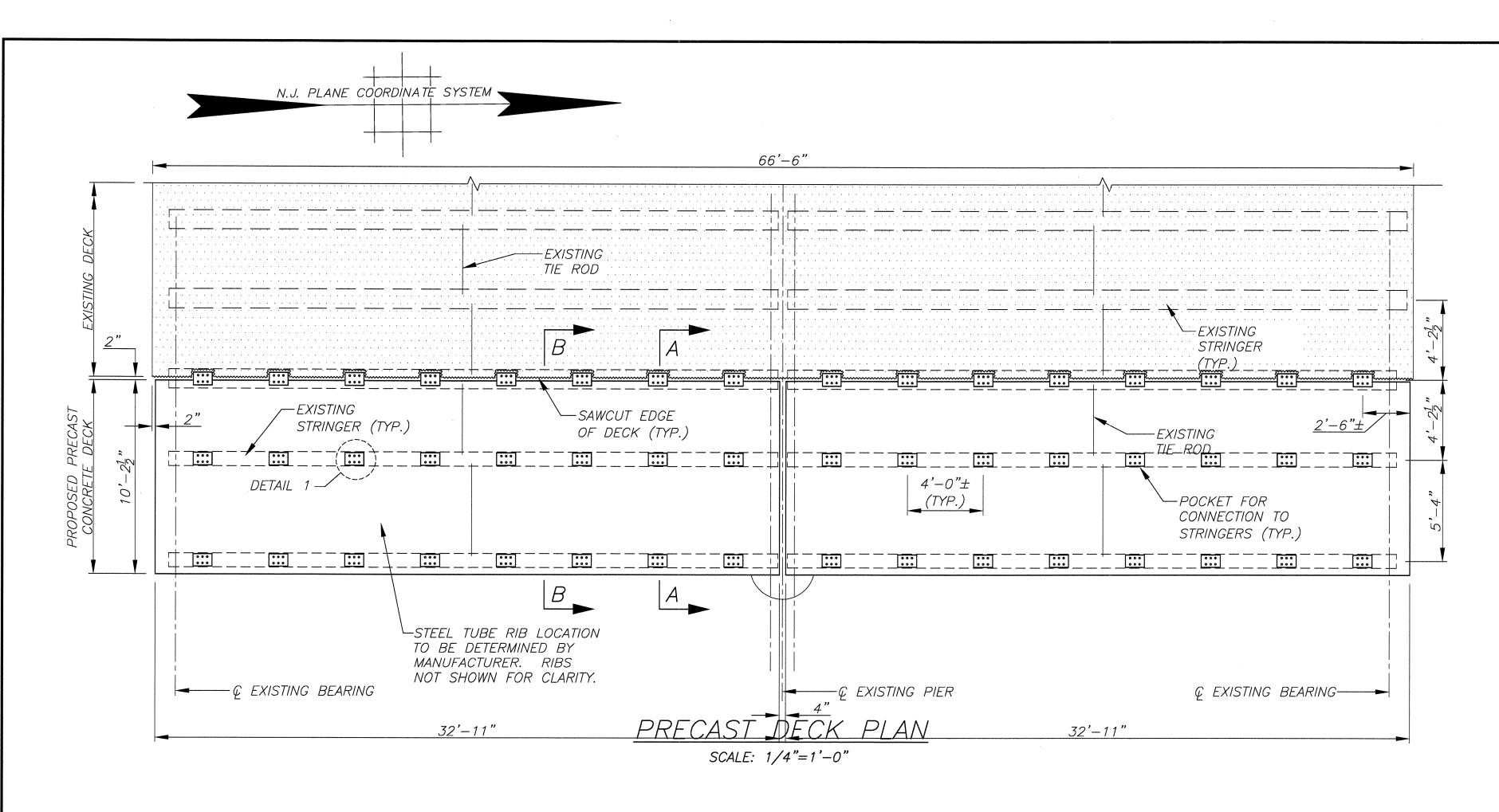


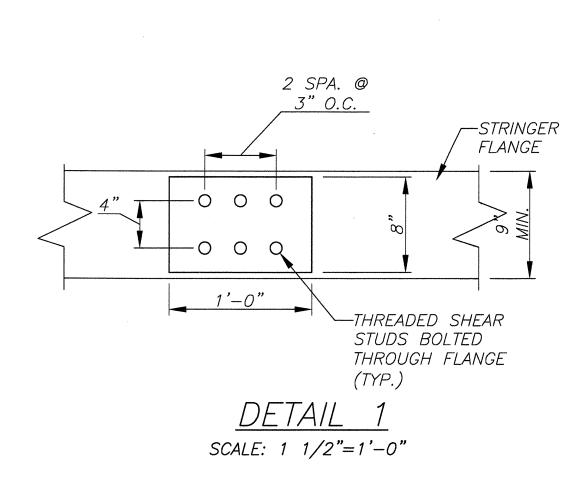


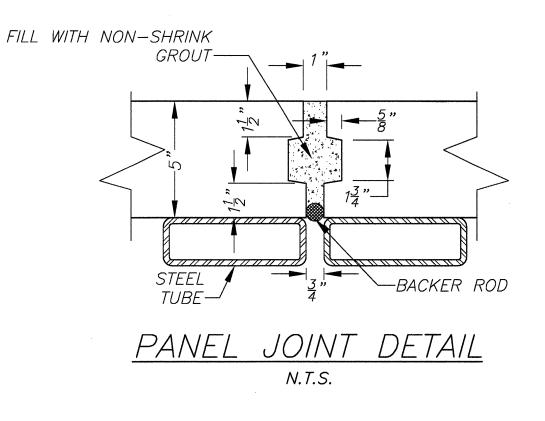


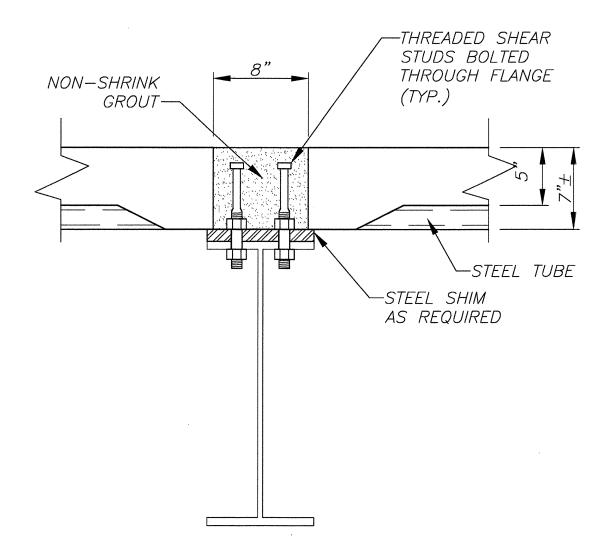


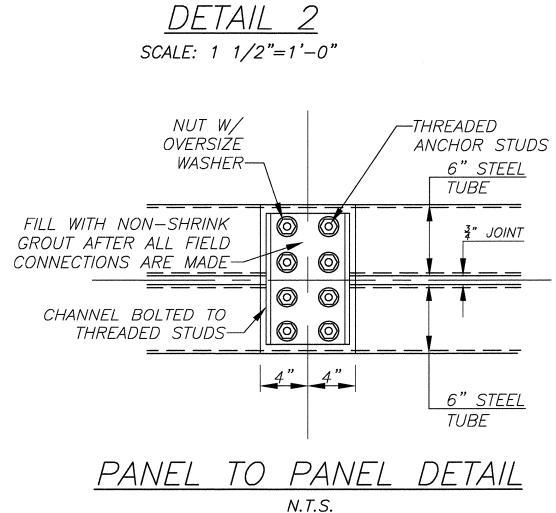












- NOTES:
- 1. PRECAST CONCRETE PANEL SHALL BE INSTALLED FOLLOWING STAGE I DEMOLITION. THE PRECAST PANEL SHALL BE REMOVED DURING STAGE III DEMOLITION.
- 2. CONSTRUCT SUPERPAVE HOT MIX ASPHALT 12.5H64 SURFACE COURSE AS DIRECTED TO MATCH EXISTING DECK ELEVATIONS. COST TO BE INCLUDED IN THE COSTS FOR PAY ITEM 'PRECAST PANELS'.

