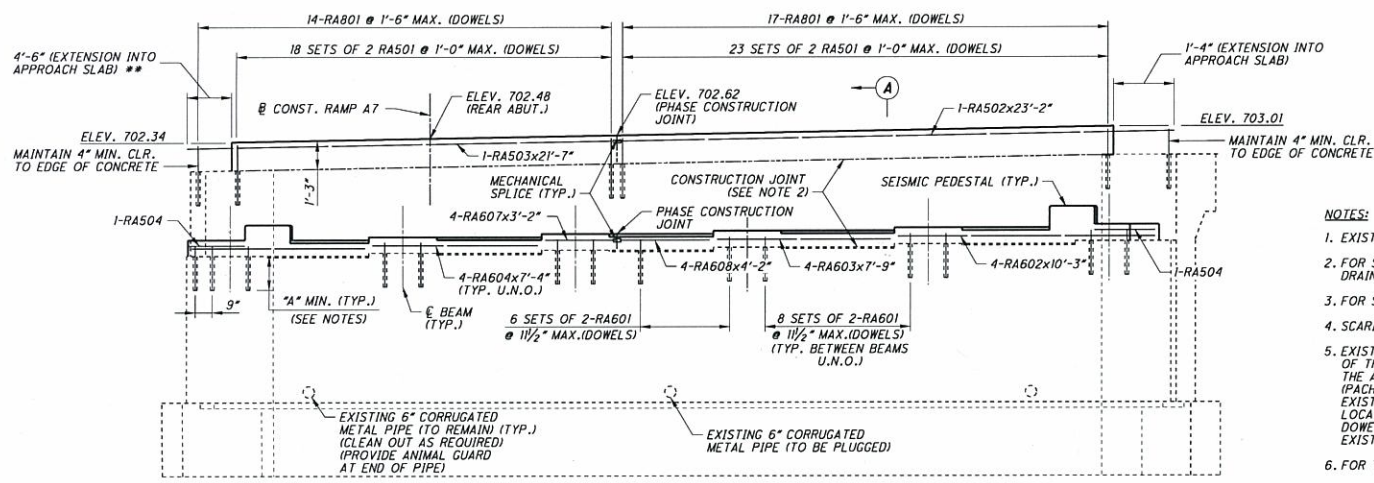


GIRDER SEAT ELEVATIONS		
GIRDER	PROPOSED	EXISTING
A	698.13	697.47
B	698.26	697.59
C	698.39	697.70
D	698.51	697.80
E	698.64	697.91
F	698.77	698.02

• SLOPE 1/8" / FT.

- LENGTH OF REBAR DOES NOT INCLUDE ANY LAP LENGTHS. CONTRACTOR SHALL DETERMINE TOTAL REBAR LENGTH REQUIRED. SEE TABLE FOR MINIMUM LAP LENGTHS.
- OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY



- NOTES:**
1. EXISTING REAR ABUTMENT IS NOW LABELED FORWARD.
 2. FOR SECTION A-A, REINFORCING BAR BEND DIAGRAMS, DRAINAGE PIPE OUTLET DETAIL, AND LEGEND SEE SHEET 12/28.
 3. FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 13/28.
 4. SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4".
 5. EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 6. FOR TABLE OF DIMENSION "A", SEE SHEET 12/28.

NO.	REVISIONS	DATE
		1

DESIGN AGENT
WALSH HNTB

BRIDGE 1
REAR ABUTMENT PLAN AND ELEVATION
BRIDGE NO. CUY-90-1490L
1-90 W.B. OVER STARKWEATHER AVE.

DESIGNED	CHECKED	DATE
AKS	DBT	04-05-11

10/28

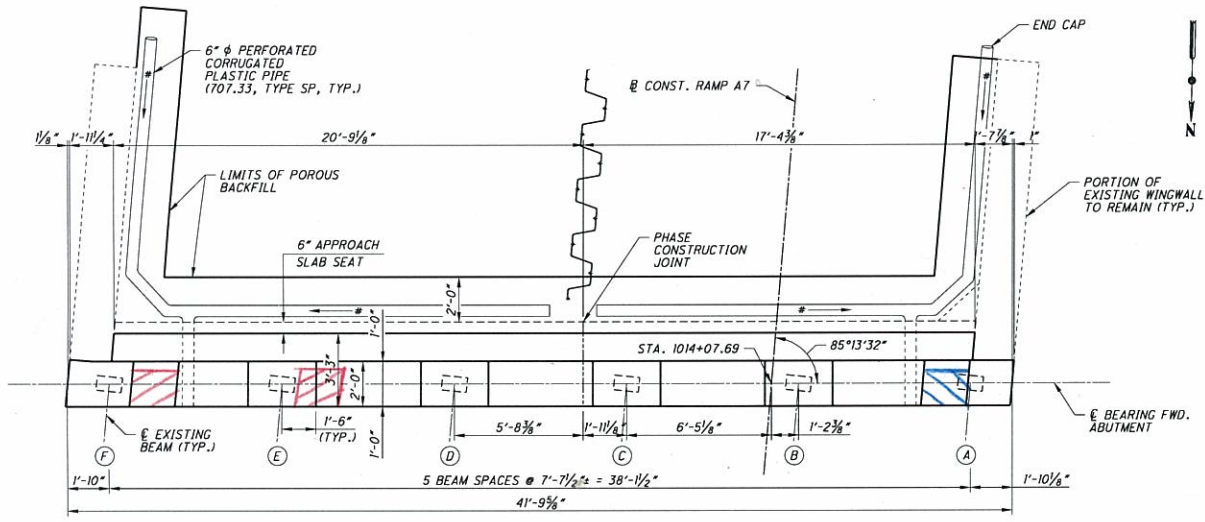
CUY-90-14.90
PID No. 77332/85531

- Partial Pedestal - Restraint to the Left

- Partial Pedestal - Restraint to the Right

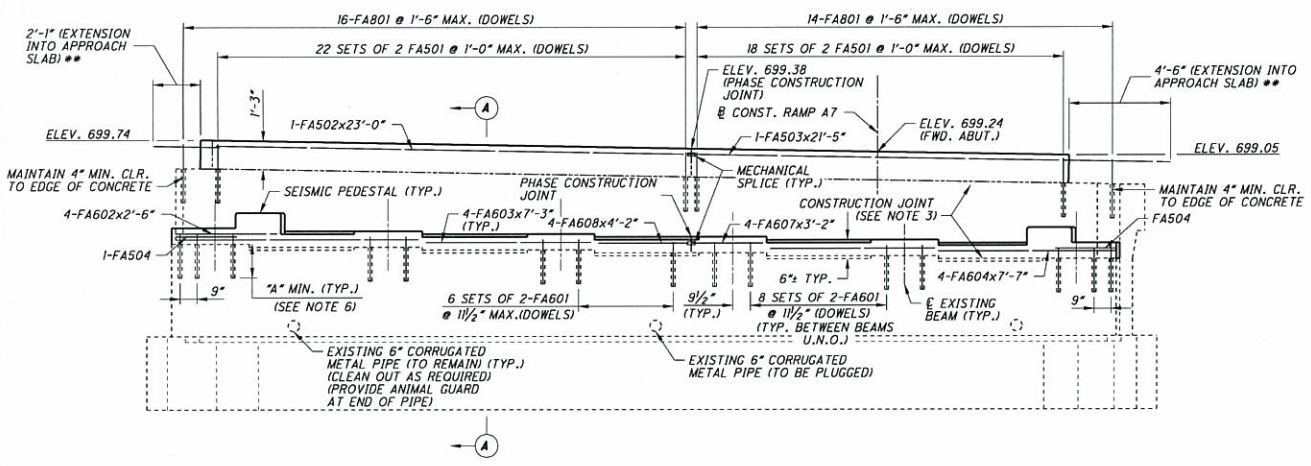
9/2

Date: 5/24/2011
Model: Sheet1
File: 496.13-S-BR-ABD01-1490L.dgn



FORWARD ABUTMENT PLAN

GIRDER SEAT ELEVATIONS		
GIRDER	PROPOSED	EXISTING
A	694.87	694.45
B	695.01	694.57
C	695.13	694.67
D	695.26	694.78
E	695.39	694.89
F	695.53	695.01



FORWARD ABUTMENT ELEVATION
(PILES NOT SHOWN FOR CLARITY)

* $\text{SLOPE } \frac{1}{8} \text{ "/>$

NOTES:

- EXISTING REAR ABUTMENT IS NOW LABELED FORWARD.
 - FOR SECTION A-A, REINFORCING BAR BEND DIAGRAMS, DRAINAGE PIPE OUTLET DETAIL, AND LEGEND SEE SHEET 12/28.
 - FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 13/28.
 - SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4".
 - EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 - FOR TABLE OF DIMENSION "A", SEE SHEET 12/28.
- * LENGTH OF REBAR DOES NOT INCLUDE ANY LAP LENGTHS. CONTRACTOR SHALL DETERMINE TOTAL REBAR LENGTH REQUIRED. SEE TABLE FOR MINIMUM LAP LENGTHS.
- ** OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY

NO.	REVISIONS	DATE	
		BY	CHKD
1	APPROVED FOR CONSTRUCTION		
2	INFORMAL REVIEW SUBMITTAL		
3	DESIGN AGENCY		

DESIGN AGENCY
WALSH HNTB
CONSULTANTS

BRIDGE 1
FORWARD ABUTMENT PLAN AND ELEVATION

BRIDGE NO. CUY-90-1490
1-90 W.B. OVER STARKWEATHER AVE.

DESIGNED	CHECKED	DATE
AKS	DBT	04-05-11
CD	STH	STRUCTURE FILE NUMBER
	NJK	1808342

CUY-90-14.90
PID No. 77332/85531

11/28

Date: 5/24/2011
Model: Sheet12
File: 4.96.33 - S.BR-ABD01-14.90L.dgn

- Partial Pedestal - Restraint to the Left

- Partial Pedestal - Restraint to the Right

9/3



DATE	02-21-10
DESIGNED BY	STH
DRAWN BY	STH
CHECKED BY	STH
APPROVED FOR CONSTRUCTION	STH

BRIDGE 2

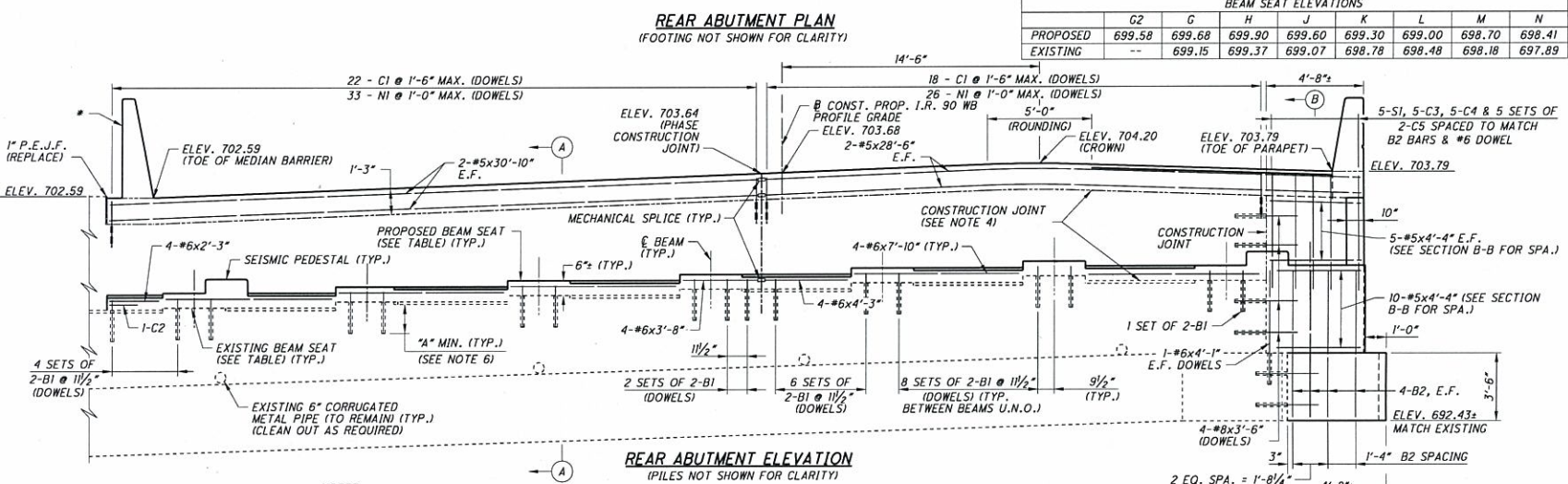
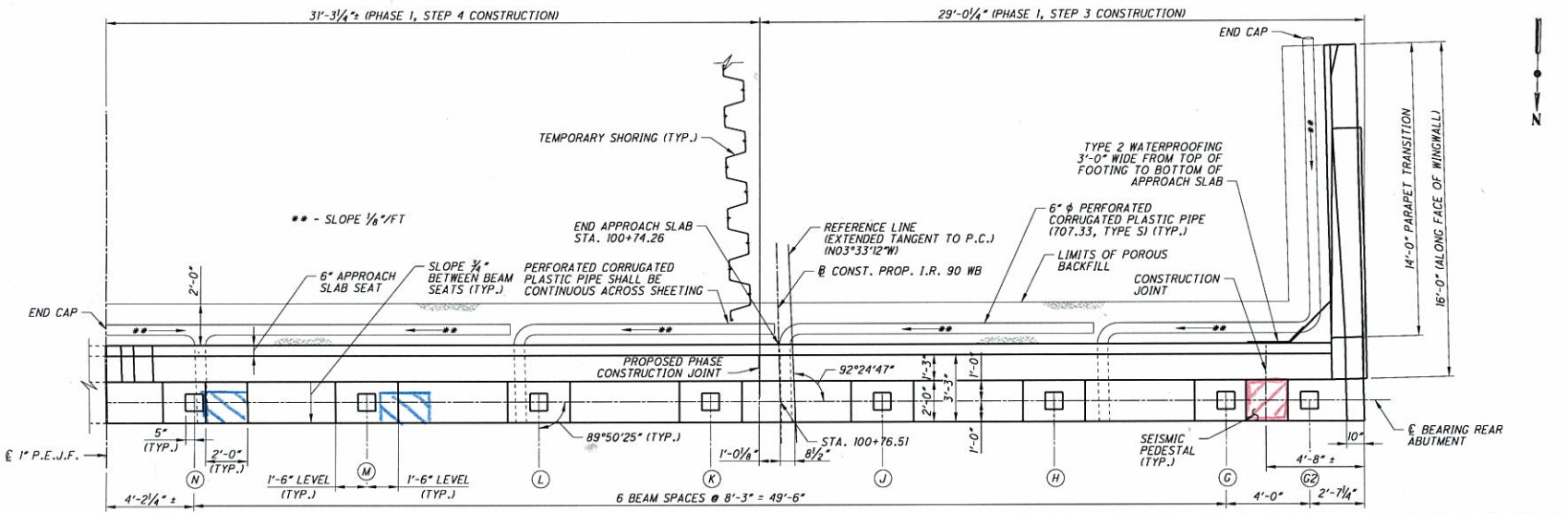
REAR ABUTMENT PLAN AND ELEVATION

BRIDGE NO. CUY-90-1490R
1-71/1-90 OVER STARKWEATHER AVENUE

NO.	1
REVISIONS	

DATE	01-28-11
REVIEWED BY	STH
STRUCTURE FILE NUMBER	1807625
DATE	01-28-11
CHECKED BY	STH
DATE	01-28-11
CHECKED BY	STH
DATE	01-28-11
CHECKED BY	STH
DATE	01-28-11
CHECKED BY	STH

DATE	01-28-11
REVIEWED BY	STH
STRUCTURE FILE NUMBER	1807625
DATE	01-28-11
CHECKED BY	STH
DATE	01-28-11
CHECKED BY	STH
DATE	01-28-11
CHECKED BY	STH



- NOTES:**
- FOR SECTION A-A, B-B, REINFORCING BAR BEND DIAGRAMS AND LEGEND SEE SHEET 16/35.
 - FOR WINGWALL DETAILS AND MEDIAN BARRIER DETAILS, SEE SHEET 17/35.
 - FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 18/35.
 - SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4".
 - EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 - FOR TABLE OF DIMENSION "A", SEE SHEET 16/35.

- Partial Pedestal - Restraint to the Left

- Full Pedestal - Restraint to the Right

Date: 6/23/2011
Model: Sheet1
File: 49633-S-BR-ABD01-1490R.dgn

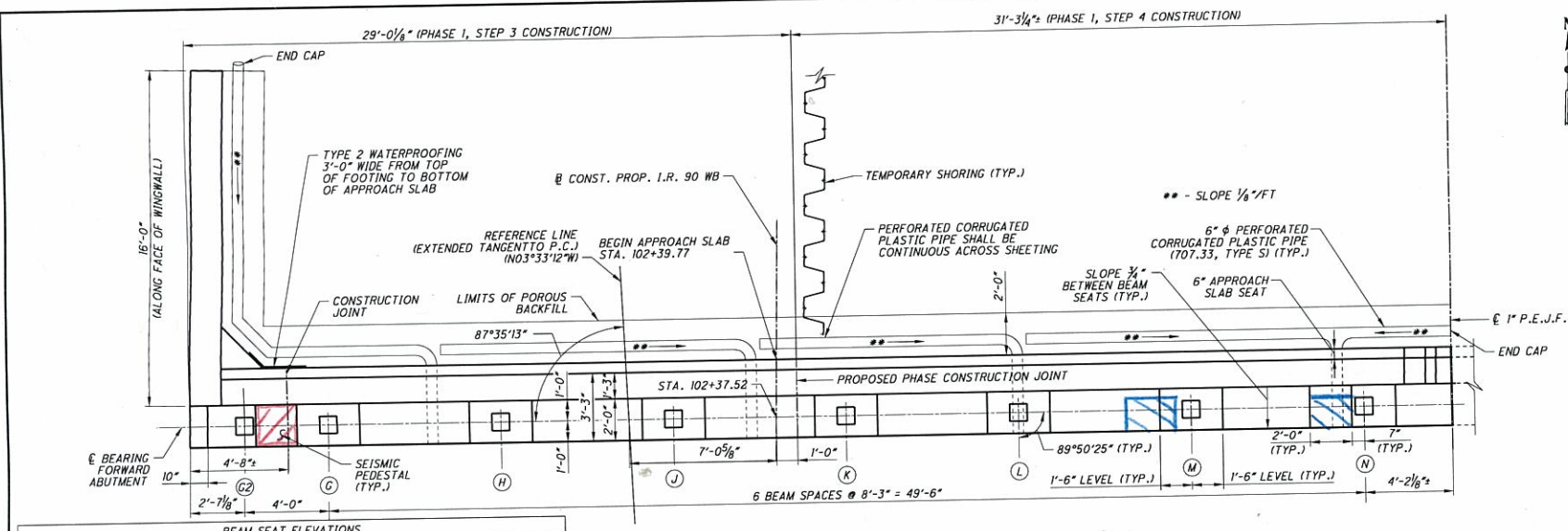


DATE	REVISIONS
12-27-10	1. DESIGN SUBMITTAL
02-02-11	2. WESTERN REVIEW
04-08-11	3. FINAL SUBMISSION REVIEW
	4. APPROVED FOR CONSTRUCTION

DESIGN AGENCY
HNTB
WALSH
CONSULTANTS

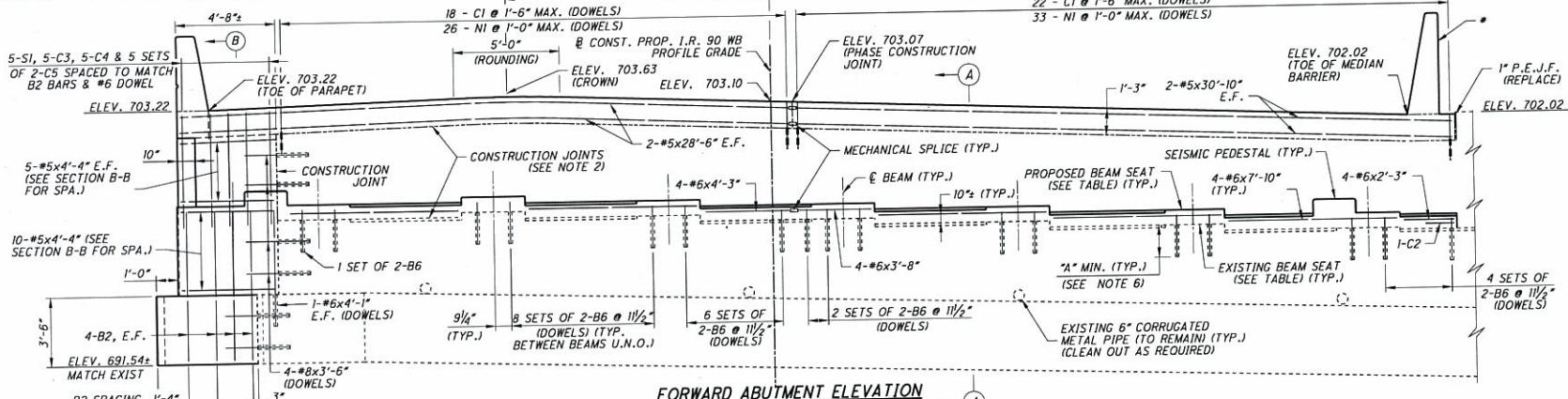
BRIDGE 2
FORWARD ABUTMENT PLAN AND ELEVATION
BRIDGE NO. CUY-90-1490
1-7171-90 OVER STARKWEATHER AVENUE

DESIGNED	DATE	REVIEWED	DATE
CHKD	01-28-11	5TH	01-28-11
DRWN	STR	CHKD	180/1825
CREG	DBT	DBT	
0	15	35	



	G2	G	H	J	K	L	M	N
PROPOSED	699.04	699.16	699.40	699.10	698.80	698.51	698.21	697.91
EXISTING	--	698.26	698.50	698.21	697.92	697.63	697.34	697.04

FORWARD ABUTMENT PLAN
(FOOTING NOT SHOWN FOR CLARITY)





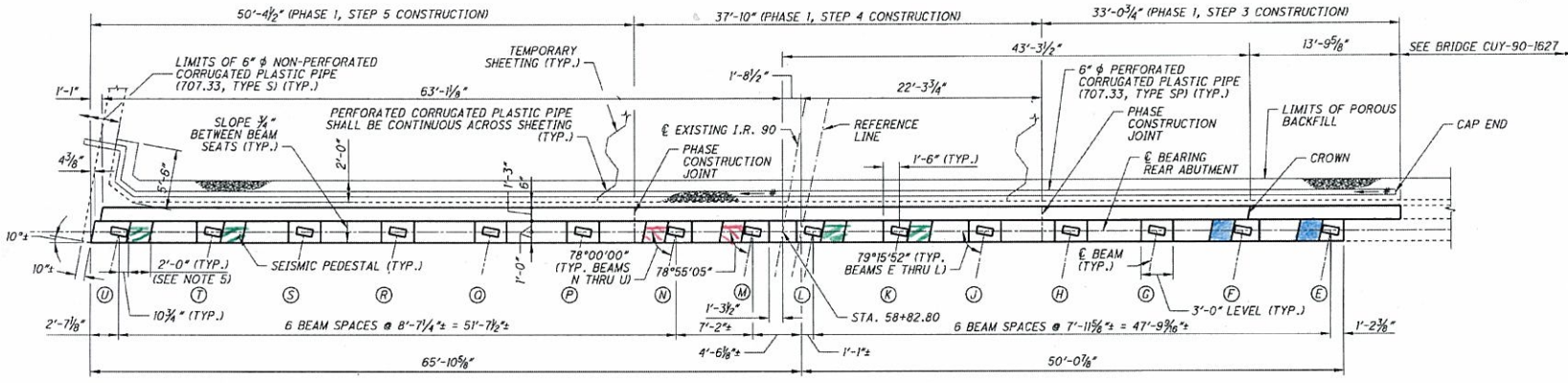
FORWARD ABUTMENT ELEVATION
(PILES NOT SHOWN FOR CLARITY)

- NOTES:**
- FOR SECTION A-A, B-B, REINFORCING BAR BEND DIAGRAMS AND LEGEND SEE SHEET 16/35.
 - FOR WINGWALL DETAILS AND MEDIAN BARRIER DETAILS, SEE SHEET 17/35.
 - FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 18/35.
 - SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4".
 - EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING BAR LOCATOR (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 - FOR TABLE OF DIMENSION "A", SEE SHEET 16/35.

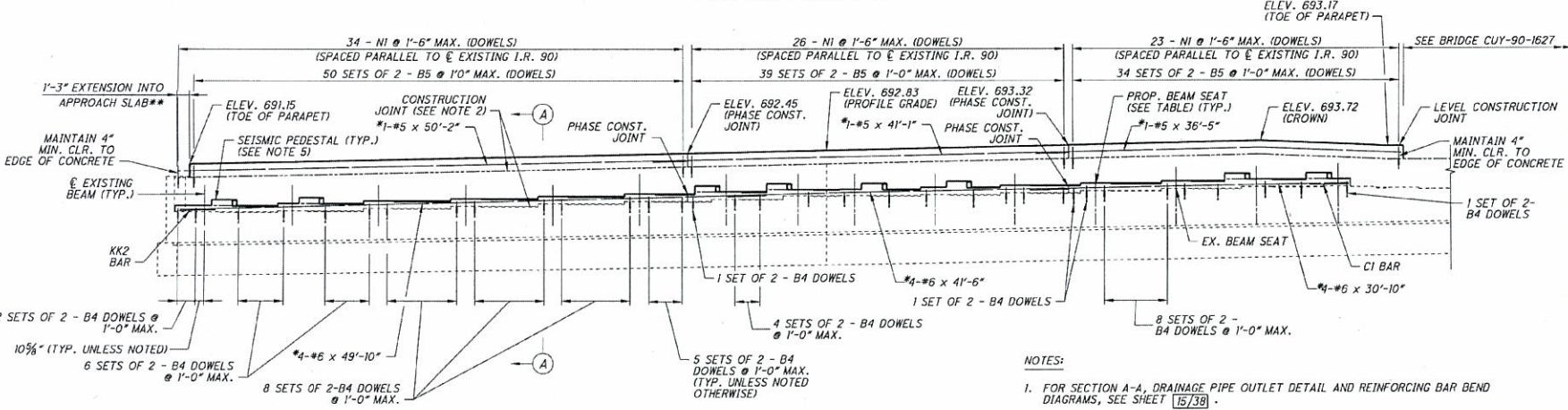
* APPROACH SLAB MEDIAN REINFORCING TO BE CAST INTO TOP OF BACKWALL, FOR ADDITIONAL DETAILS SEE SHEETS 34/35 THRU 35/35.

Date: 6/23/2011
Model: Sheet1
File: 496335-S-BR-AB02-14-90R.dgn

 - Partial Pedestal - Restraint to the Left
 - Full Pedestal - Restraint to the Right.



REAR ABUTMENT PLAN
(FOOTING NOT SHOWN FOR CLARITY)



REAR ABUTMENT ELEVATION
(PILES NOT SHOWN FOR CLARITY)

- * SLOPE 1/8" / FT.
- * LENGTH OF REBAR DOES NOT INCLUDE ANY LAP LENGTHS (SEE MINIMUM LAP LENGTH TABLE). CONTRACTOR SHALL DETERMINE TOTAL REBAR LENGTH REQUIRED.
- ** OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY.

MINIMUM LAP LENGTH TABLE	
#5	3'-3"
#6	3'-10"

BEAM SEAT ELEVATIONS																
	E	F	G	H	J	K	L	M	N	P	O	R	S	T	U	
PROPOSED	689.27	689.38	689.22	689.02	688.83	688.62	688.40	688.34	688.14	687.95	687.71	687.49	687.28	687.04	686.83	
EXISTING	688.5	688.5	688.3	688.1	687.9	687.8	687.7	687.6	687.3	687.1	686.9	686.7	686.5	686.2	686.1	

- NOTES:**
- FOR SECTION A-A, DRAINAGE PIPE OUTLET DETAIL AND REINFORCING BAR BEND DIAGRAMS, SEE SHEET 16/38.
 - SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4", PER ITEM 202, PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.
 - EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING STEEL BAR LOCATER (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL HOLE SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 - POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE AND LATERALLY TO THE LIMITS SHOWN IN THE PLANS.
 - FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 16/38.
 - FOR APPROACH SLAB DETAILS, SEE SHEET 36/38 THRU 38/38.

NO.		DATE		REVISIONS	
1	03-29-11	JUL	03-29-11	1	ISSUED FOR PERMIT
2	03-29-11	JUL	03-29-11	2	FINAL SUBMITTAL REVISED
3	03-29-11	JUL	03-29-11	3	APPROVED FOR CONSTRUCTION

BRIDGES 7 & 8

REAR ABUTMENT PLAN AND ELEVATION

BRIDGE NO. CUY-90-14-90
PID No. 77332/85531

1-90 WESTBOUND AND EASTBOUND OVER E 9TH STREET

- Full Pedestal (already Placed) - Restraint in the Right

- Partial Pedestal - Restraint in the Right

- Partial Pedestal - Restraint in the Left



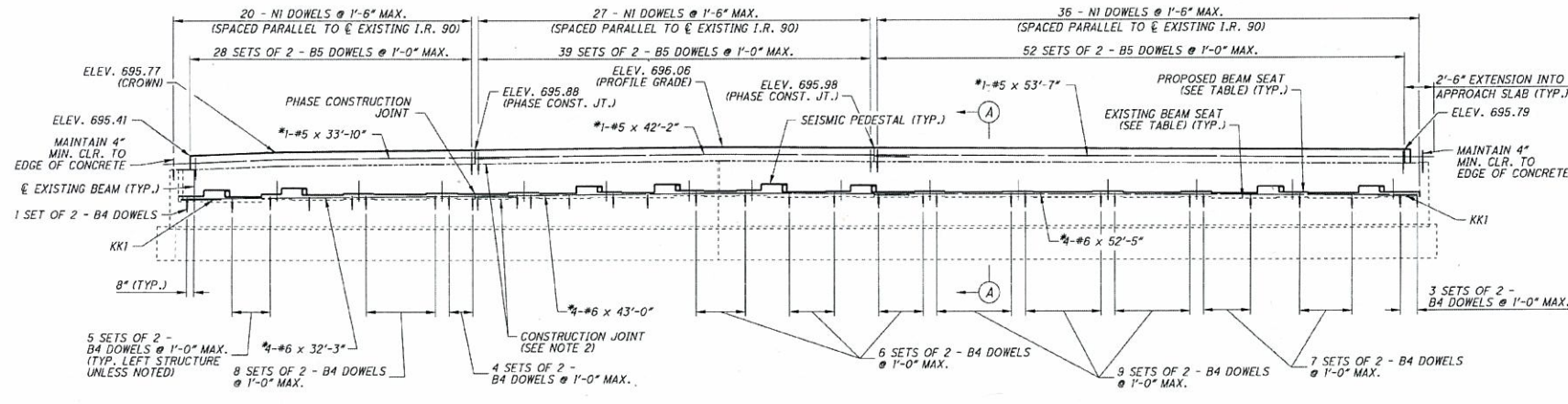
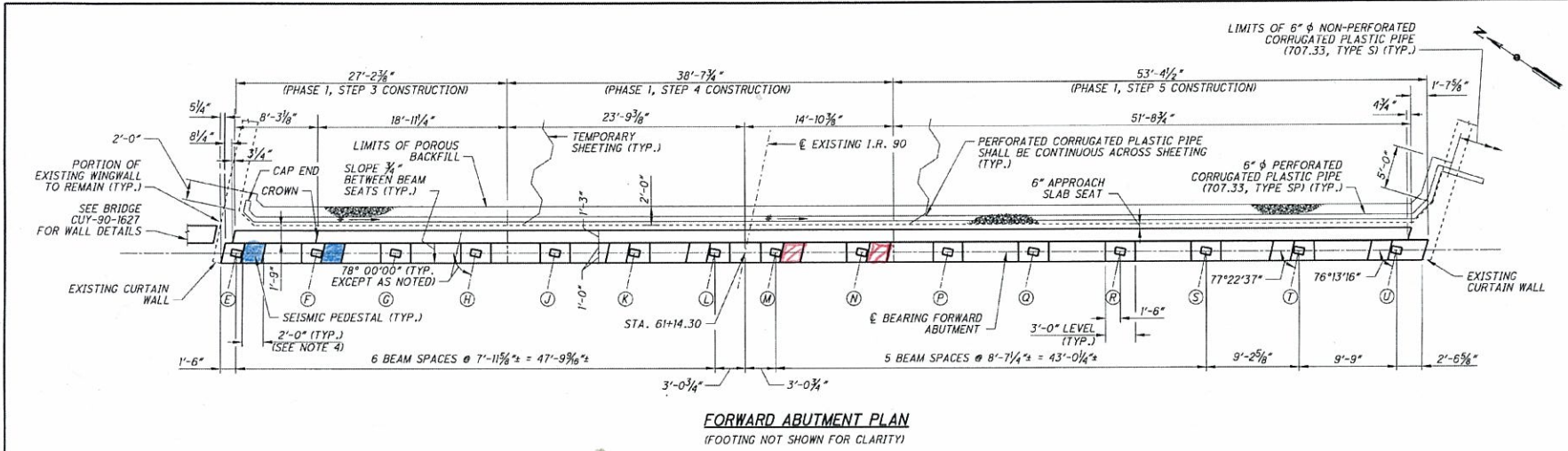
DATE	12-7-2011
NO.	1
REVISIONS	
1	APPROVED FOR CONSTRUCTION
2	FINAL SUBMITTAL
3	FINAL SUBMITTAL
4	FINAL SUBMITTAL
5	FINAL SUBMITTAL

DESIGN AGENCY
WILSH HNTB

BRIDGES 7 & 8
FORWARD ABUTMENT PLAN AND ELEVATION
BRIDGE NO. CUY-90-14.90
I-90 WESTBOUND AND EASTBOUND OVER E 9TH STREET

DATE
03-29-11
STRUCTURE FILE NUMBER
1807498 / 1807714

DESIGNED	JRS	CHECKED	JTW
DATE	03-29-11	STRUCTURE FILE NUMBER	1807498 / 1807714
NO.	14	PID No.	77332, 85531



- * SLOPE 1/8" / FT.
- * LENGTH OF REBAR DOES NOT INCLUDE ANY LAP LENGTHS (SEE MINIMUM LAP LENGTH TABLE). CONTRACTOR SHALL DETERMINE TOTAL REBAR LENGTH REQUIRED.
- ** OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY.

#5	3'-3"
#6	3'-10"

FORWARD ABUTMENT ELEVATION
(PILES NOT SHOWN FOR CLARITY)

- NOTES:
1. FOR SECTION A-A, SEE SHEET 15/38.
 2. SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4", PER ITEM 202, PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.
 3. FOR ADDITIONAL NOTES, SEE SHEET 15/38.
 4. FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 16/38.
 5. FOR APPROACH SLAB DETAILS, SEE SHEET 36/38 THRU 38/38.

	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
PROPOSED	691.14	691.40	691.42	691.44	691.47	691.54	691.59	691.58	691.58	691.55	691.48	691.50	691.45	691.34	691.23
EXISTING	690.5	690.7	690.8	690.8	690.8	690.9	691.0	691.0	690.9	690.9	690.8	690.8	690.8	690.7	690.7



Date: 28-APR-2011
Model: Sheet1
File: P:\PWP\dms22447\496333\5-BR-ABR002-162.RL.dgn

8/5



NO.	DATE	REVISIONS
1	12-25-09	INITIAL REVIEW SUBMITTAL
2	02-25-10	APPROVED FOR CONSTRUCTION

DESIGN AGENCY
WALSH HNTB
MANUFACTURING

BRIDGE 9
REAR ABUTMENT PLAN AND ELEVATION

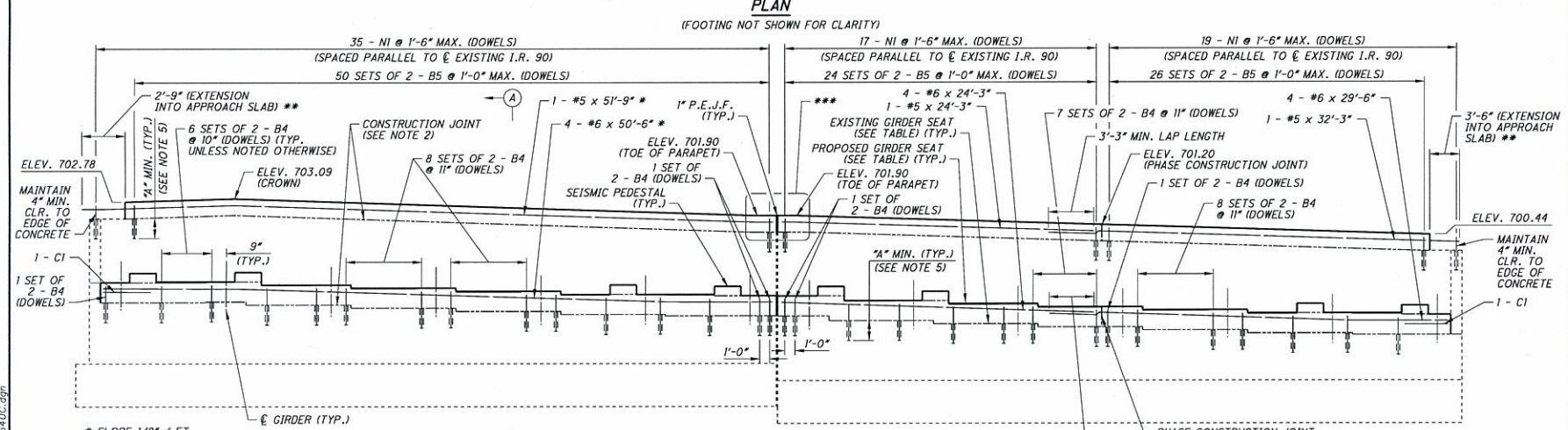
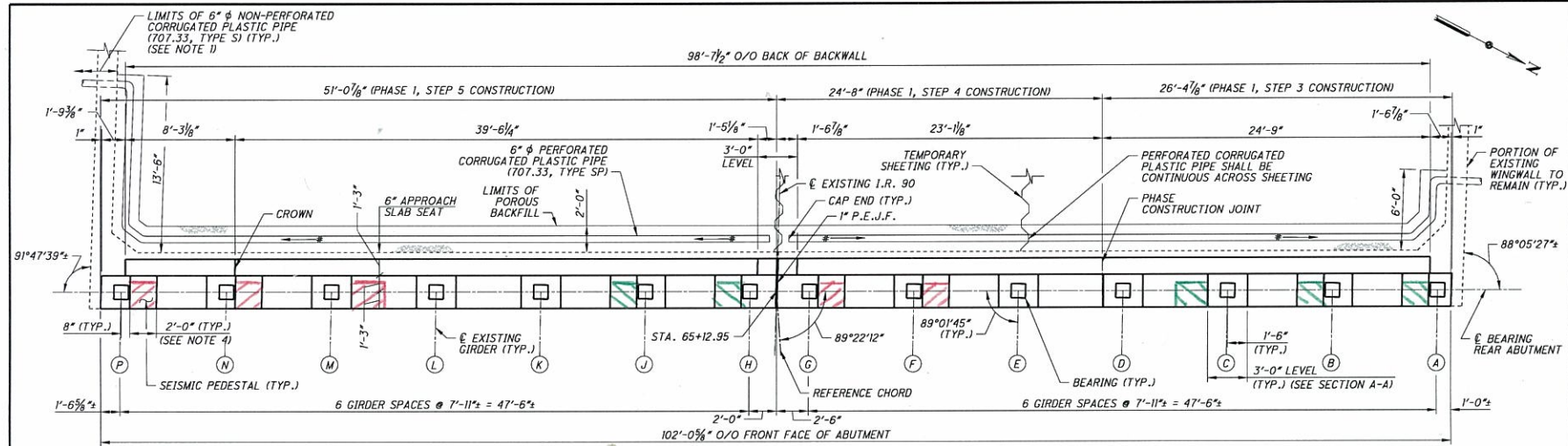
BRIDGE NO. CUY-90-1490
1-90 EASTBOUND AND WESTBOUND OVER I-77 SOUTHBOUND

DATE	REVISION	BY	CHKD
03-14-11	JUL		

STRUCTURE FILE NUMBER 1807773

CUY-90-1490
PID No. 77932/85591

13/42



#5	3'-3"
#6	3'-10"

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
PROPOSED	692.79	693.02	693.29	693.49	693.74	693.94	694.14	694.34	694.54	694.64	694.91	695.14	695.36	695.16
EXISTING	692.4±	692.6±	692.7±	692.9±	693.1±	693.4±	693.7±	693.7±	693.8±	694.1±	694.3±	694.6±	694.8±	694.8±

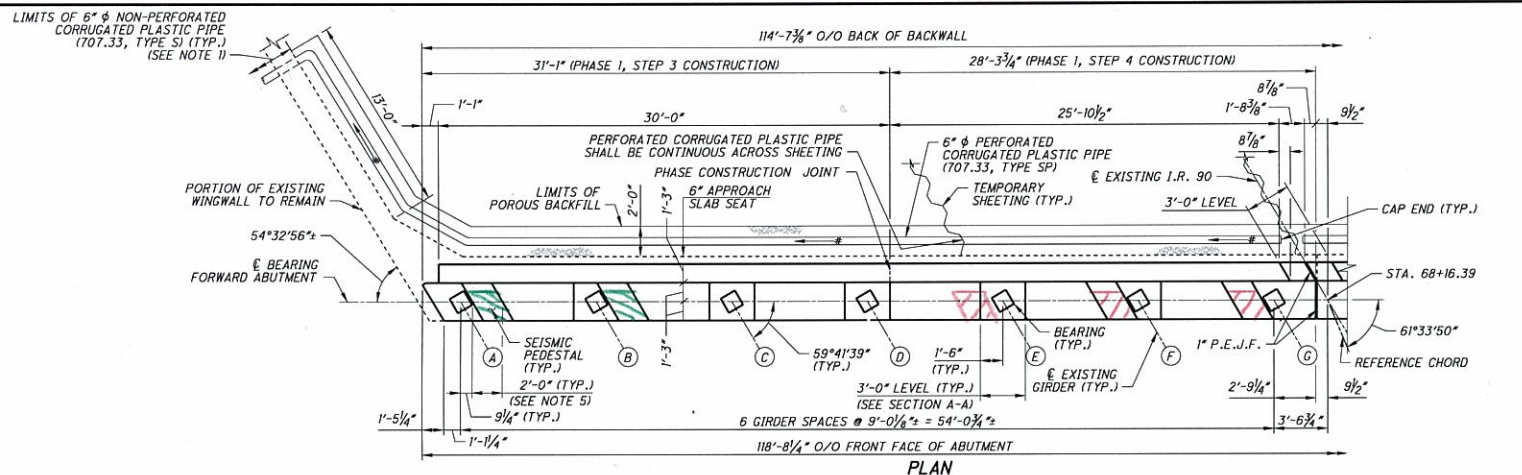
- NOTES:
- FOR SECTION A-A, DRAINAGE PIPE OUTLET DETAIL, TOP OF BACKWALL ELEVATION LOCATION, REINFORCING BAR BEND DIAGRAMS AND ADDITIONAL NOTES, SEE SHEET 16/42.
 - SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4", PER ITEM 202, PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.
 - EXISTING REINFORCING STEEL BARS IN THE AREA OF THE DOWEL HOLES SHALL BE LOCATED WITH THE AID OF A REINFORCING STEEL BAR LOCATER (PACHOMETER) PRIOR TO DRILLING HOLES. IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, THE DOWEL HOLE SHALL BE MOVED TO EITHER SIDE OF THE EXISTING BAR.
 - FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 17/42.
 - FOR TABLE OF DIMENSION "A", SEE SHEET 16/42.

- Restraint to the Left - Partial Pedestal

- Restraint to the Right - Partial Pedestal

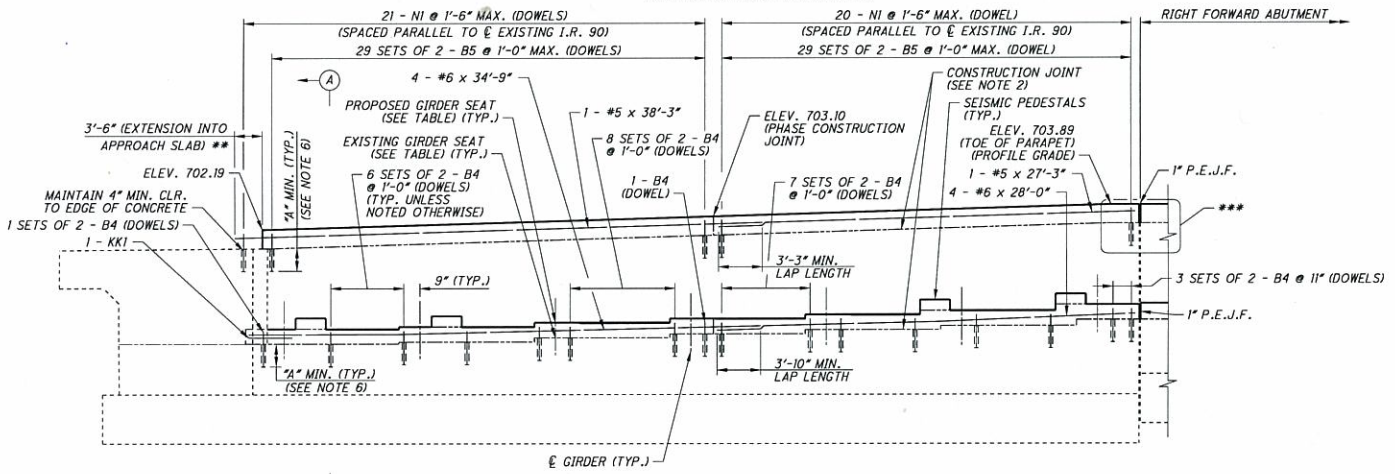
Date: 15-MAR-2011
Model: Sheet1
File: P:\PWP\dms72457\496333-S-BR-ABD001-1640C.dgn

6/2



PLAN

(FOOTING NOT SHOWN FOR CLARITY)



ELEVATION

(PILES NOT SHOWN FOR CLARITY)

- * SLOPE 1/8" / FT.
- ** OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY
- *** APPROACH SLAB MEDIAN REINFORCING TO BE CAST INTO TOP OF BACKWALL. FOR ADDITIONAL DETAILS SEE SHEETS 140/42 THRU 142/42.

- NOTES:**
1. FOR SECTION A-A, DRAINAGE PIPE OUTLET DETAIL AND REINFORCING BAR BEND DIAGRAMS, SEE SHEET 16/42.
 2. SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4", PER ITEM 202, PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.
 3. FOR ADDITIONAL NOTES, SEE SHEET 16/42.
 4. FOR RIGHT FORWARD ABUTMENT DETAILS, SEE SHEET 15/42.
 5. FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 17/42.
 6. FOR TABLE OF DIMENSION "A", SEE SHEET 16/42.

GIRDER SEAT ELEVATIONS							
	A	B	C	D	E	F	G
PROPOSED	694.45	694.75	695.03	695.30	695.56	695.82	695.08
EXISTING	694.0±	694.2±	694.4±	694.7±	695.0±	695.3±	695.6±

MINIMUM LAP LENGTH TABLE	
#5	3'-3"
#6	3'-10"

- Restraint to The Left - Partial Pedestal

- Restraint to the Right - Partial Pedestal

NO.	REVISIONS	DATE
A	INTERIM REVIEW SUBMITTAL	02-20-09
B	APPROVED FOR CONSTRUCTION	03-25-09

DESIGN AGENCY: **WALSH HNTB**

PROJECT: **BRIDGE 9**

DESCRIPTION: **FORWARD ABUTMENT PLAN AND ELEVATION - 1**

LOCATION: **1-90 EASTBOUND AND WESTBOUND OVER I-77 SOUTHBOUND**

BRIDGE NO. CUY-90-1640

DESIGNED	CHECKED	DATE	STRUCTURE FILE NUMBER
JTW	NJ	03-14-11	1807773

CUY-90-14.90
PID No. 77332/85531

14 42

Date: 16-MAR-2011
Model: Sheet12
File: P:\PWP\dms72457\49633-S BR-ABD01-1640C.dgn

3/6



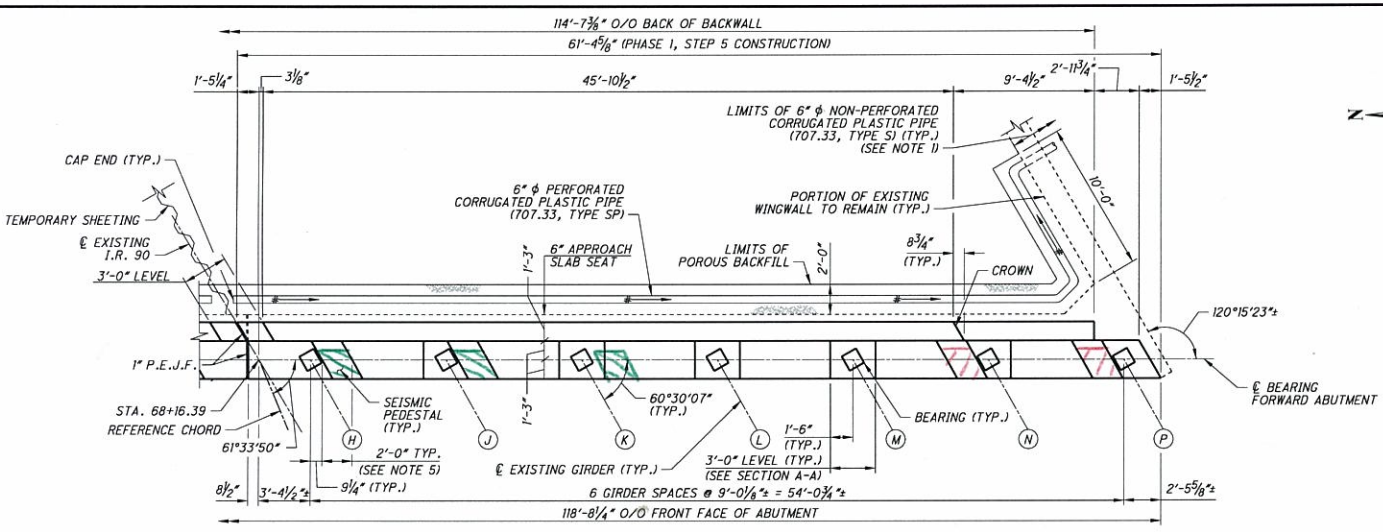
DATE	REVISIONS
12-02-10	INTERNAL REVIEW SUBMITTAL
02-25-11	FINAL SUBMITTAL
02-25-11	APPROVED FOR CONSTRUCTION

DESIGN AGENCY
WALSH HNTB

BRIDGE 9
FORWARD ABUTMENT PLAN AND ELEVATION-2
BRIDGE NO. CUY-90-1640
I-90 EASTBOUND AND WESTBOUND OVER I-77 SOUTHBOUND

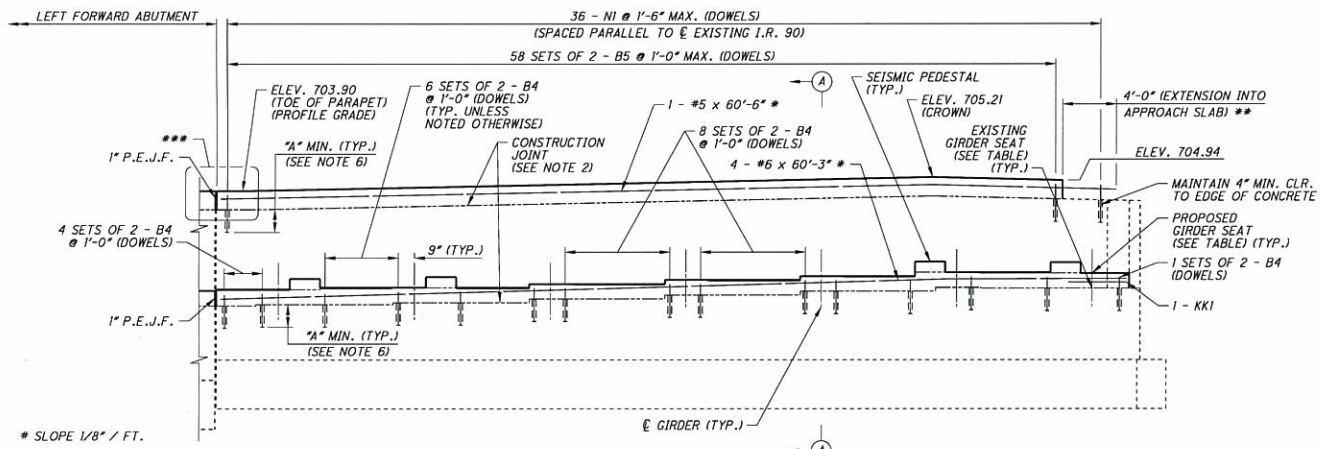
DESIGNED	CHECKED	DATE	STRUCTURE FILE NUMBER
JTW	NJ	03-14-11	1807773

CUY-90-14.90
PID No. 77392/85591



PLAN

(FOOTING NOT SHOWN FOR CLARITY)



ELEVATION

(PILES NOT SHOWN FOR CLARITY)

- * SLOPE 1/8" / FT.
- ** LENGTH OF REBAR DOES NOT INCLUDE ANY LAP LENGTHS. CONTRACTOR SHALL DETERMINE TOTAL REBAR LENGTH REQUIRED. SEE TABLE FOR MINIMUM LAP LENGTHS.
- *** OTHER APPROACH SLAB REBAR NOT SHOWN FOR CLARITY.
- **** APPROACH SLAB MEDIAN REINFORCING TO BE CAST INTO TOP OF BACKWALL. FOR ADDITIONAL DETAILS SEE SHEETS 40/42 THRU 42/42.

#	LENGTH
#5	3'-3"
#6	3'-10"

	H	J	K	L	M	N	P
PROPOSED	696.14	696.44	696.71	697.00	697.26	697.50	697.30
EXISTING	695.8±	695.8±	696.1±	696.3±	696.7±	696.9±	696.9±

NOTES:

- FOR SECTION A-A, DRAINAGE PIPE OUTLET DETAIL AND REINFORCING BAR BENDS, SEE SHEET 16/42.
- SCARIFY THE TOP OF EXISTING SURFACES TO A DEPTH OF 1/4", PER ITEM 202, PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.
- FOR ADDITIONAL NOTES, SEE SHEET 16/42.
- FOR LEFT FORWARD ABUTMENT, SEE SHEET 14/42.
- FOR SEISMIC PEDESTAL DETAILS, SEE SHEET 17/42.
- FOR TABLE OF DIMENSION "A", SEE SHEET 16/42.

- Restraint to the Left - Partial Pedestal

- Restraint to the Right - Partial Pedestal

6/17

Date: 15-MAR-2011
Model: S:\m33
File: P:\PWP\cdms24571_49633-S-BR-ABD01-1640C.dgn