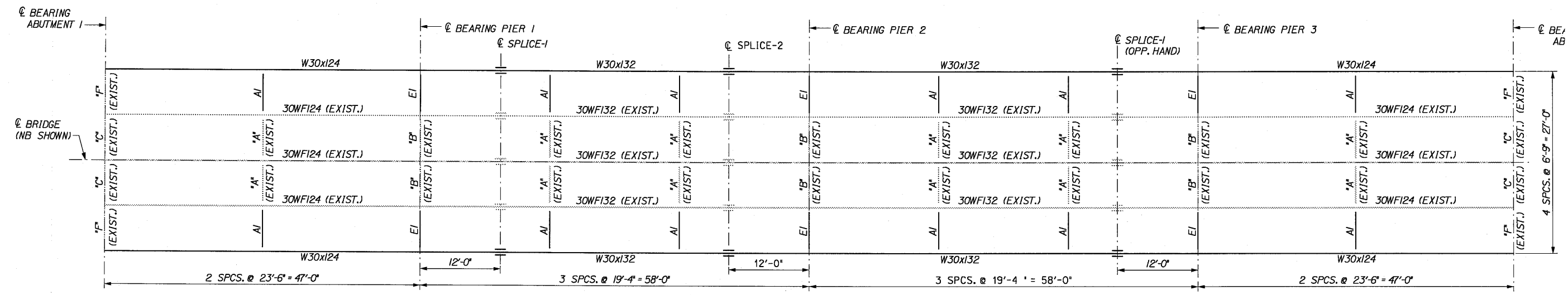


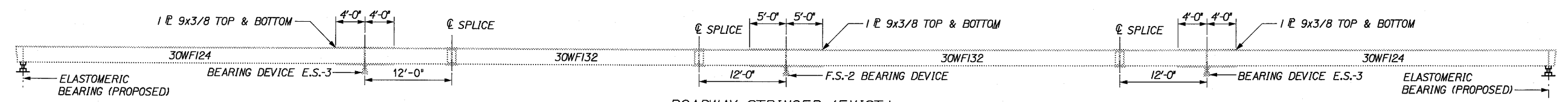
EXISTING FRAMING PLAN
1/8"=1'-0"

DIAPHRAGMS ARE NOTED THUS "A", "B", "C", "E" & "F".

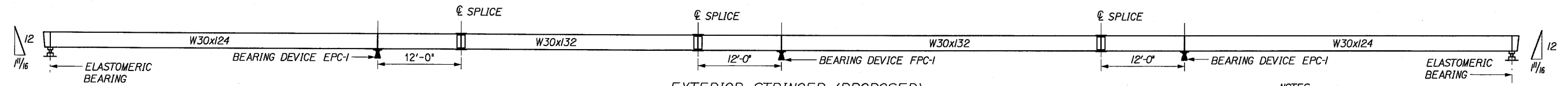


PROPOSED FRAMING PLAN
1/8"=1'-0"

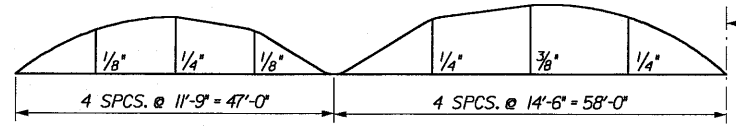
DIAPHRAGMS ARE NOTED THUS "A", "AI", "B", "C", "EI" & "F".



ROADWAY STRINGER (EXIST.)
N.T.S.



EXTERIOR STRINGER (PROPOSED)
N.T.S.



EXTERIOR STRINGER CAMBER DIAGRAM
N.T.S.

SYMM.
ABOUT
BEARING
PIER 2

- NOTES:
1. ALL BEARING STIFFENERS AT POINTS OF SUPPORT 7 x 3/8 PLATES.
 2. BEVEL SHOWN AT END OF BEAMS IS TRUE WITH R₁ TO AXIS OF BEAMS ONLY.
 3. CONTRACTOR SHALL SET PROPOSED STRINGERS SO OF THE PROPOSED EXTERIOR STRINGERS MATCHES THE EXISTING EXTERIOR STRINGERS.

Date: 3/28/2006

Filename: ...3-28-06\CS-SI_FramPlan.dgn

Scale:

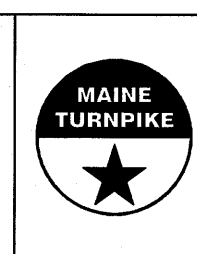
No.	Revision	By	Date

Designed by:

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	By	Date	Checked	By	Date
Designed	ZH	02/06	Checked	PMK	02/06
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THE GOLD STAR
MEMORIAL HIGHWAY

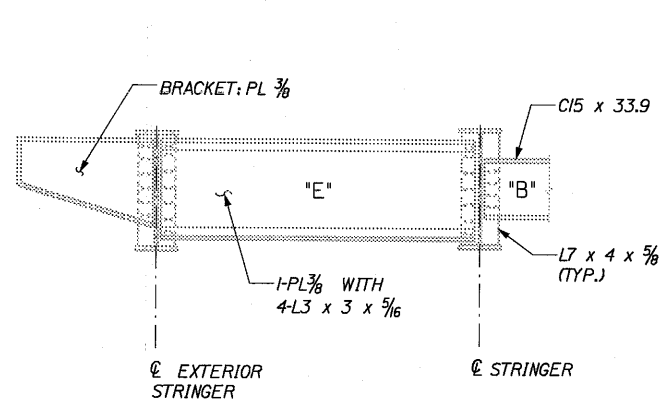
COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
FRAMING PLAN

SHEET NUMBER

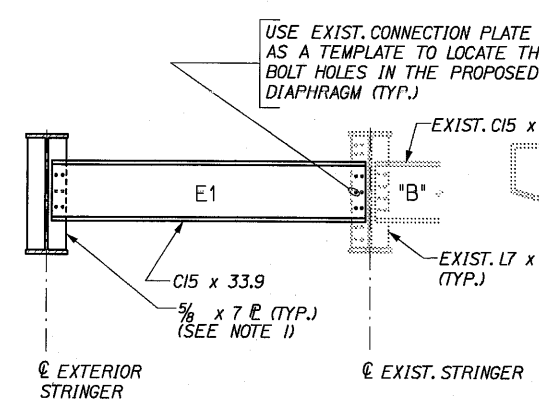
CONTRACT: 2006.03

Date: 3/28/2006

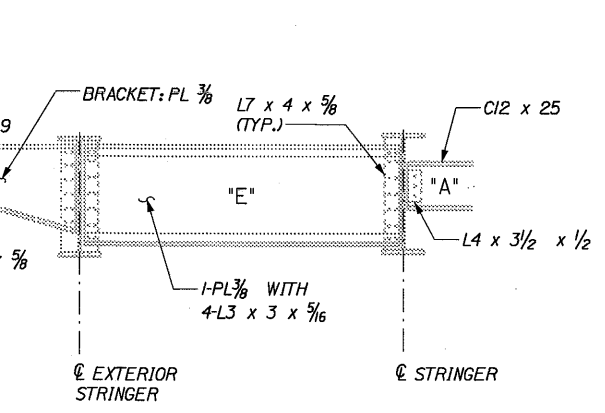
Filename: ...3-28-06\CS-S2_SteelDetails.dgn



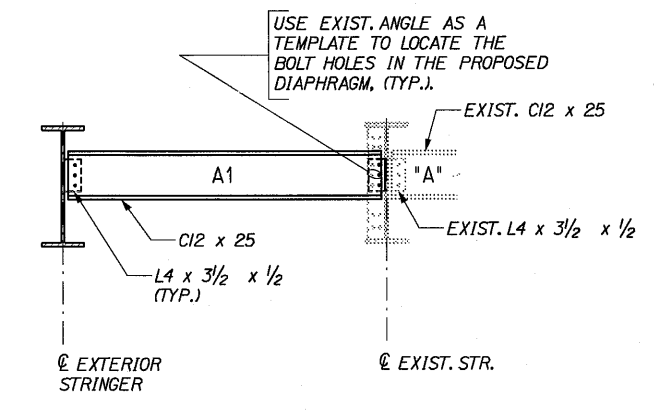
TYPICAL SECTION (EXISTING)
AT PIER (E-B)
1/2" = 1'-0"



TYPICAL SECTION (PROPOSED)
AT PIER (E1-B)
1/2" = 1'-0"

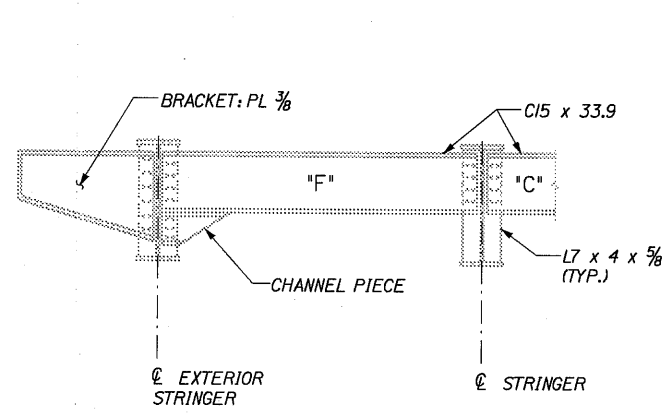


TYPICAL SECTION (EXISTING)
AT INTERMEDIATE DIAPHRAGM (E-A)
1/2" = 1'-0"

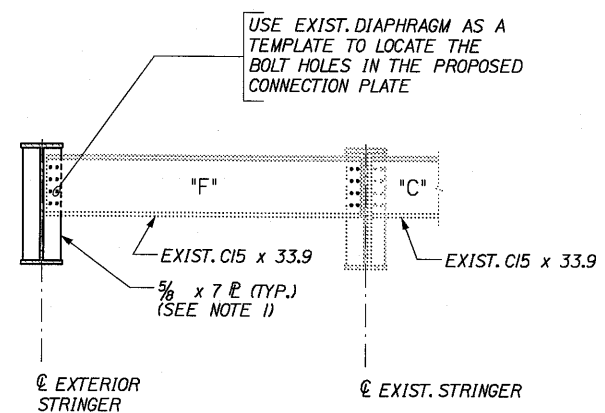


TYPICAL SECTION (PROPOSED)
AT INTERMEDIATE DIAPHRAGM (A1-A)
1/2" = 1'-0"

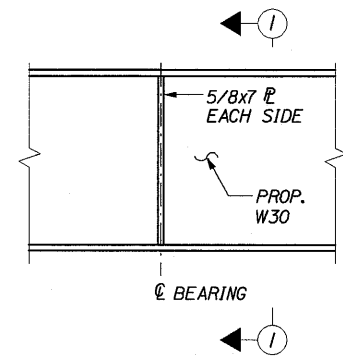
- NOTES:
1. STIFFENER PLATES AT PO SUPPORT SHALL BE MILLED AT BOTTOM AND FIT TIGHT
 2. ALL BOLTS ARE GALVANIZE IN 5/16" ϕ HOLE UNLESS NOT OTHERWISE.



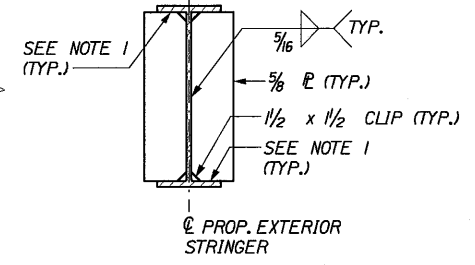
TYPICAL SECTION (EXISTING)
AT END DIAPHRAGMS (F-C)
1/2" = 1'-0"



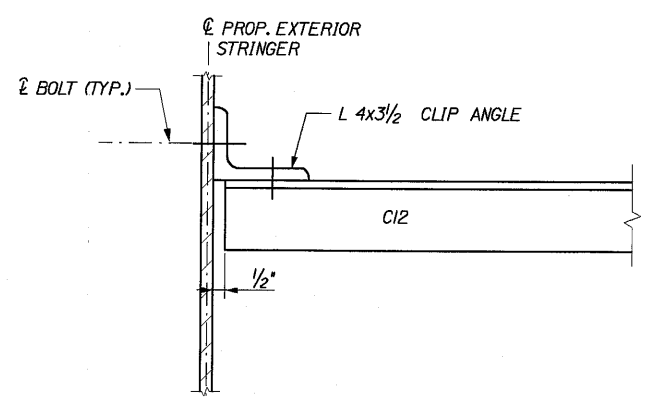
TYPICAL SECTION (PROPOSED)
AT END DIAPHRAGMS F-C
1/2" = 1'-0"



BEARING STIFFENER
NO SCALE



SECTION I-I
NO SCALE



DIAPHRAGM (A1) TO STRINGER CONNECTION
3" = 1'-0"

Scale:

No.	Revision	By	Date

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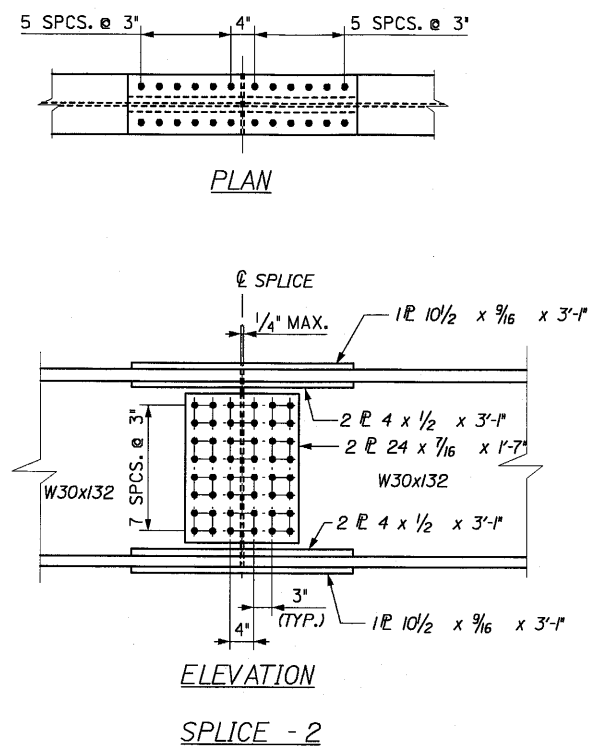
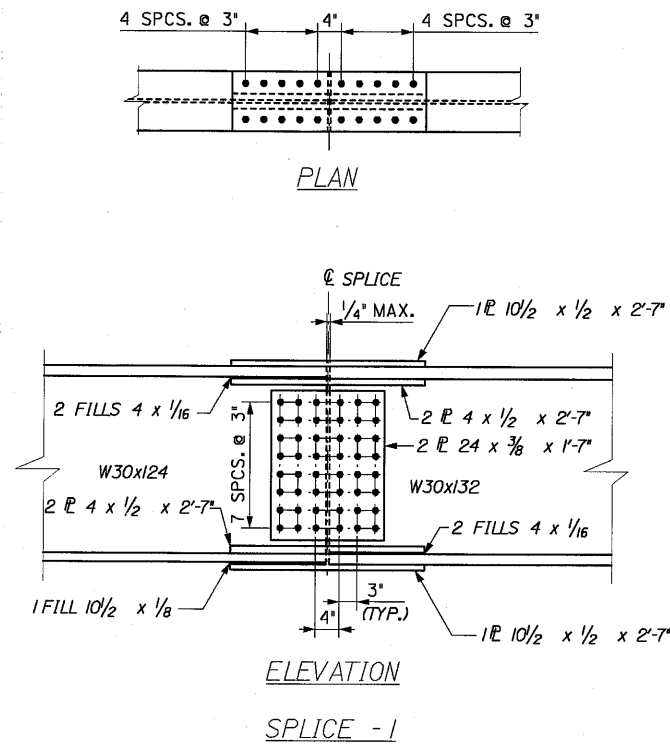
**THE GOLD STAR
MEMORIAL HIGHWAY**

COBBOSSÉECONTEE STREAM
BRIDGE REHABILITATION
STRUCTURAL STEEL DETAILS
SHEET 1 OF 2

SHEET NUMBER
CONTRACT: 2006.03

Date: 3/28/2006

Filename: ...3-28-06\CS-S3_SteelDets2.dgn



PROPOSED FIELD SPLICES
3/4" = 1'-0"

NOTE:
1. SEE GENERAL NOTES FOR TYPE OF STEEL

Scale:				
No.	Revision	By	Date	

Designed by:						
HNTB						
Designed	By	Date	Checked	By	Date	
Drawn	RJC	02/06	In Charge of	RAL	02/06	

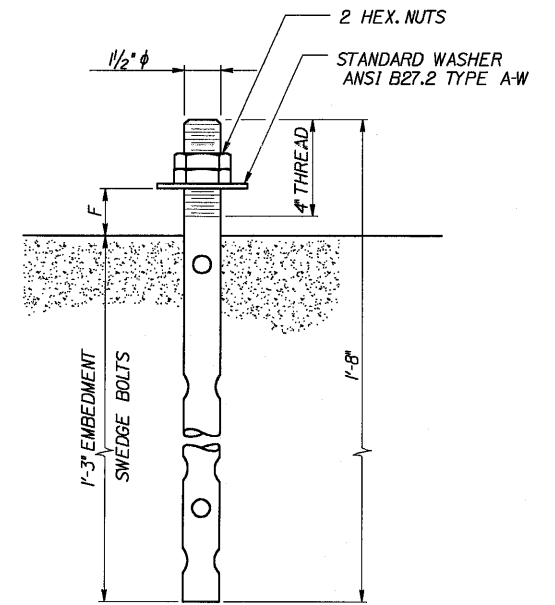
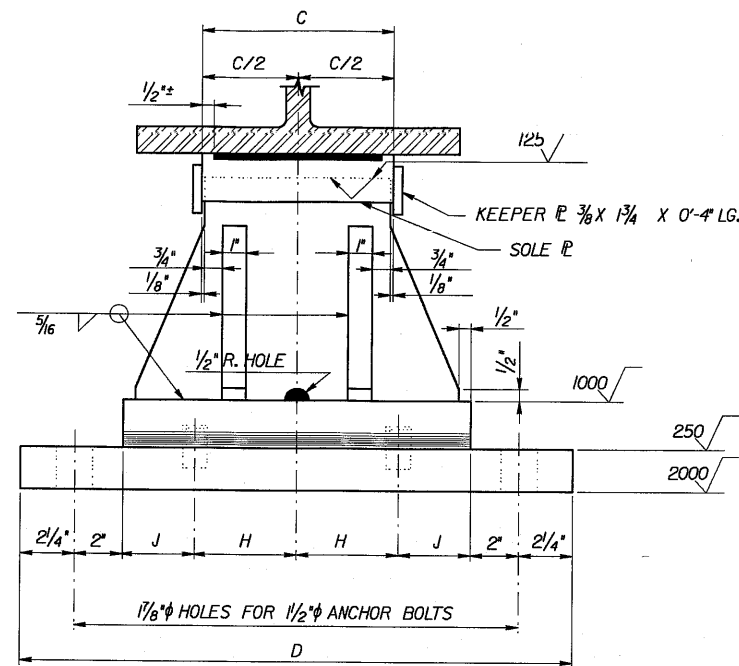
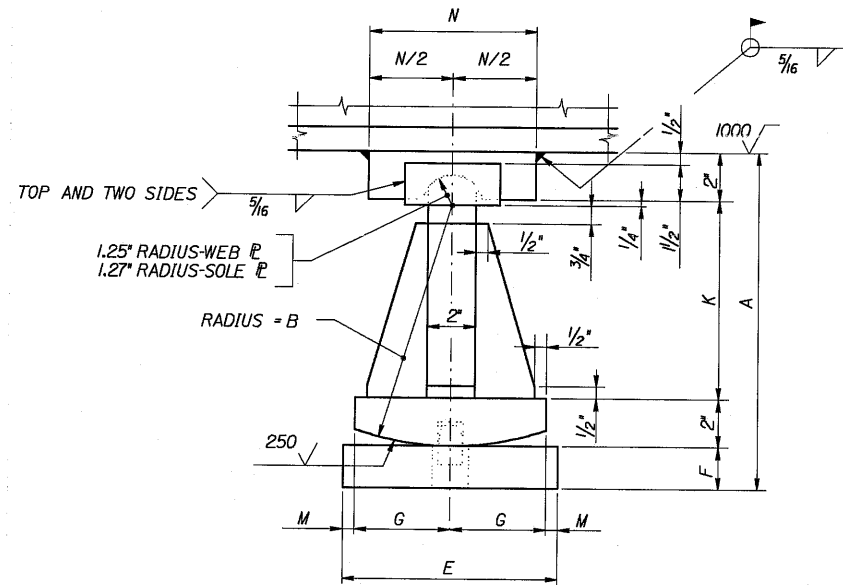
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**THE GOLD STAR
MEMORIAL HIGHWAY**

**COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
STRUCTURAL STEEL DETAILS
SHEET 2 OF 2**

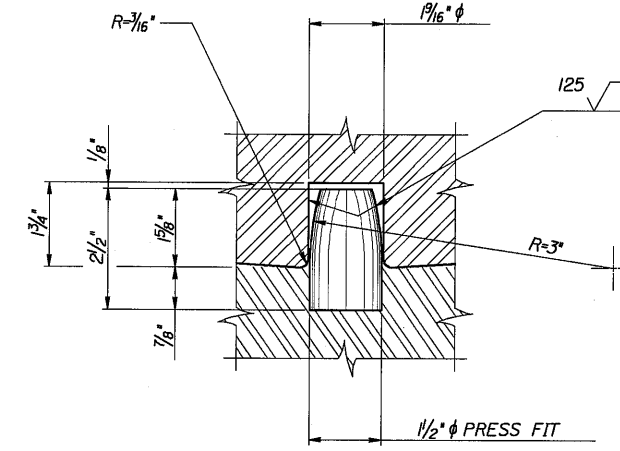
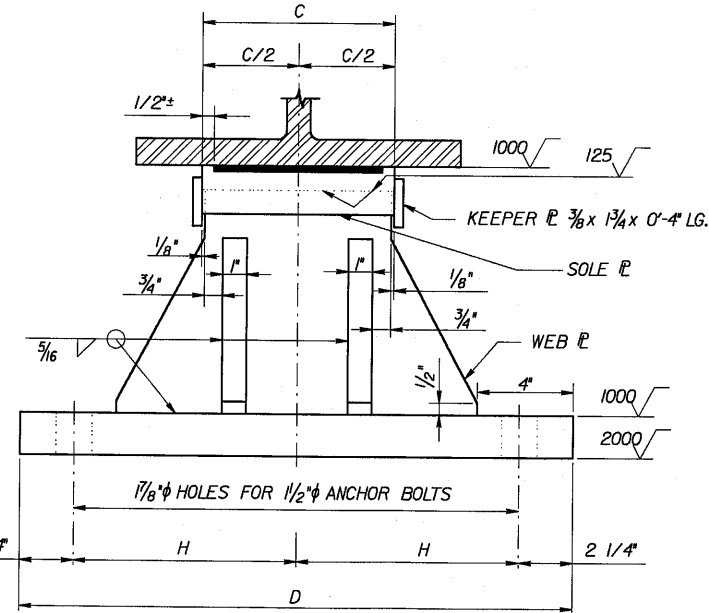
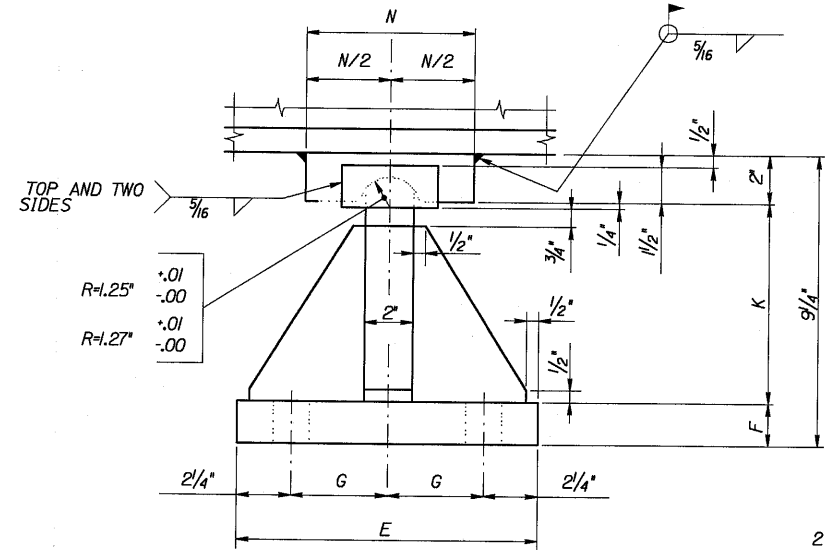
CONTRACT: 2006.03 SHEET NUMBER



EXPANSION PEDESTAL - EPC - 1
N.T.S.

NOTE:
TWO REQUIRED FOR EACH EXPANSION PEDESTAL - EPC.
FOUR REQUIRED FOR EACH FIXED PEDESTAL - FPC.

ANCHOR BOLT DETAIL
3'-4'-0"



FIXED PEDESTAL - FPC - 1
N.T.S.

PINTLE DETAIL
3'-4'-0"

- NOTES:
- ALL STEEL SHALL BE AASHTO M270, GRADE
 - ANCHOR BOLTS SHALL BE GALVANIZED STE F1554, GRADE 55.
 - NUTS SHALL CONFORM TO AASHTO M291, ASTM A563, HEAVY HEX, GRADE A.
 - UPSET THREADS ON ANCHOR BOLTS AFTER ASSEMBLY.
 - BEARING PLATES SHALL BE PLACED ON 1/4\"/>

PEDESTALS - ALLOWABLE LOADS AND DIMENSIONS													
PEDESTAL	LOAD	A	B	C	D	E	F	G	H	J	K	M	N
EPC-1	125K	11 1/2"	7 3/4"	8"	1'-8 1/2"	8"	1 1/2"	3 1/2"	3"	3"	6"	1/2"	6"
FPC-1	125K	-	-	8"	1'-8 1/2"	9 1/2"	1 1/4"	2 1/2"	8"	-	6"	-	6"

Date: 3/28/2006

Filename: ... 3-28-06\CS-S4_BearingDetail.dgn

Scale:

No.	Revision	By	Date

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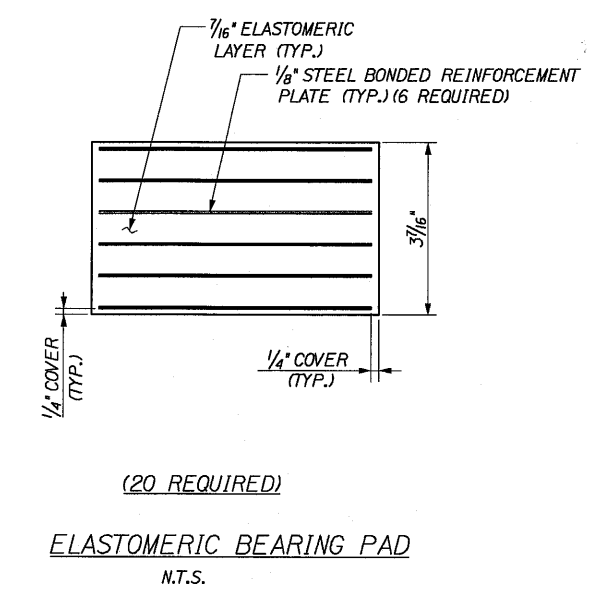
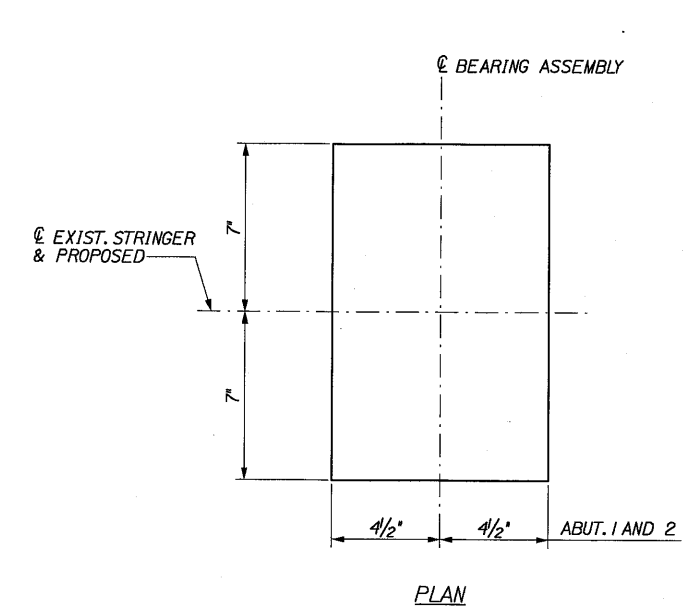
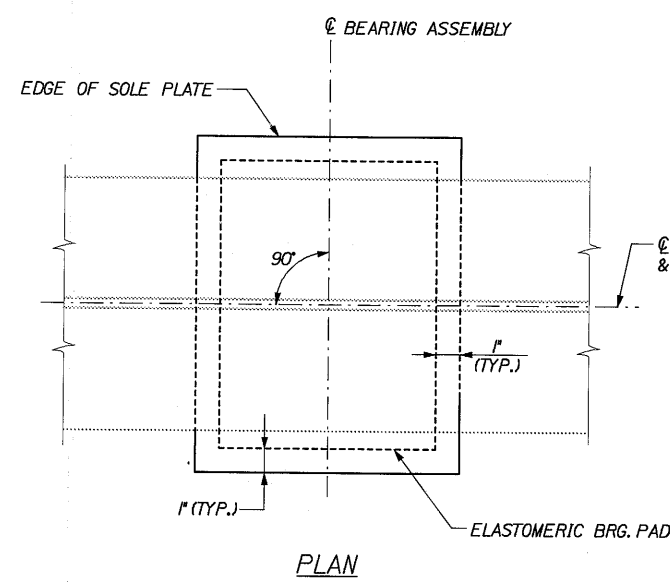
THE GOLD STAR
MEMORIAL HIGHWAY

COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
BEARING DETAILS
SHEET 1 OF 2

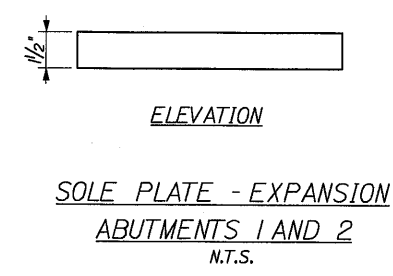
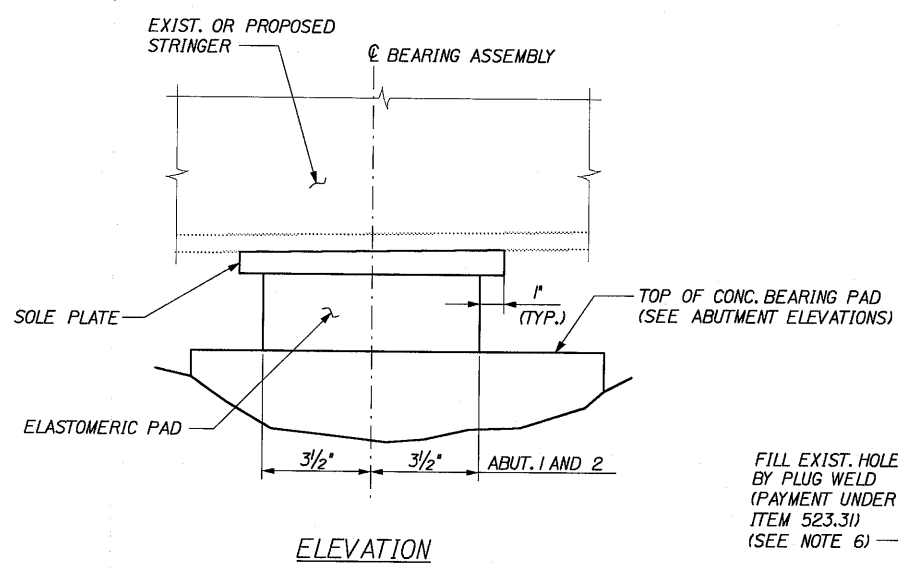
CONTRACT: 2006.03

SHEET NUMBER

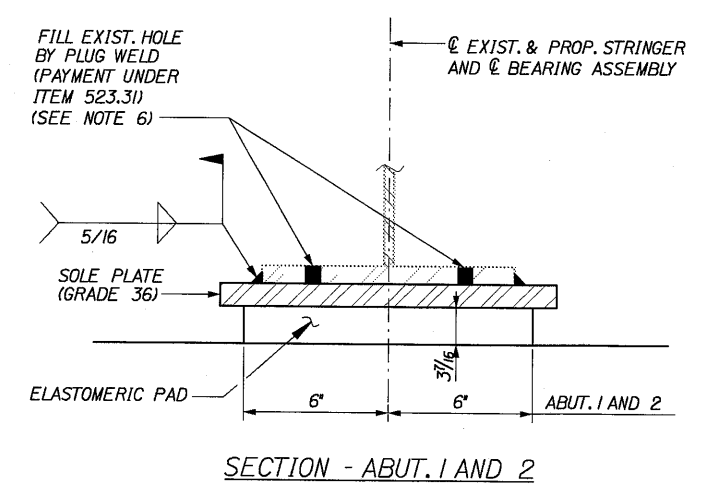
Date: 3/28/2006
Filename: ...3-28-06\CS-S5_BearingDetails2.dgn



- NOTES:**
- ELASTOMER SHALL BE 100% POLYCHLORO (NEOPRENE) WITH DUROMETER HARDNESS
 - SOLE PLATE SHALL BE GALVANIZED IN WITH ASTM 153.
 - CONTRACTOR SHALL RE-FINISH GALVANIZ. AS DIRECTED BY ENGINEER, AFTER WEL.
 - BEARINGS SHALL SATISFY THE AASHTO I SPECIFICATIONS.
 - ELASTOMERIC BEARING PAD IS TO BE FACTORY VULCANIZED TO THE SOLE PLATE
 - BEARING ASSEMBLIES FOR EXISTING ST SHOWN, BEARING ASSEMBLIES FOR PROP STRINGER SIMILAR, EXCEPT NO PLUG WEL.
 - CONCRETE PAD ELEVATIONS TO BE FIELD DETERMINED BY THE RESIDENT. THE AV CONCRETE PAD DEPTH IS 7 1/2".



ABUTMENTS 1 & 2		
DEAD LOAD	LIVE LOAD	TOTAL LOAD
22 KIP	33 KIP	55 KIP



BEARING ASSEMBLY - EXPANSION
ABUTMENTS 1 AND 2
N.T.S.

Scale:

No.	Revision	By	Date

Designed by:

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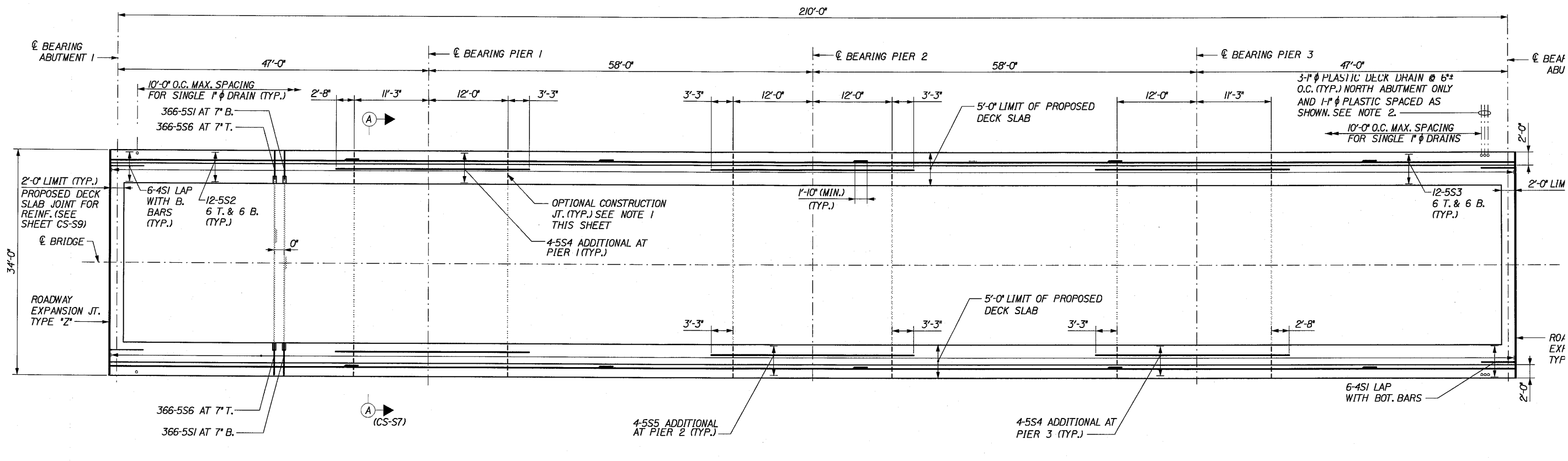
	By	Date		By	Date
Designed	ZH	02/06	Checked	PMK	02/06
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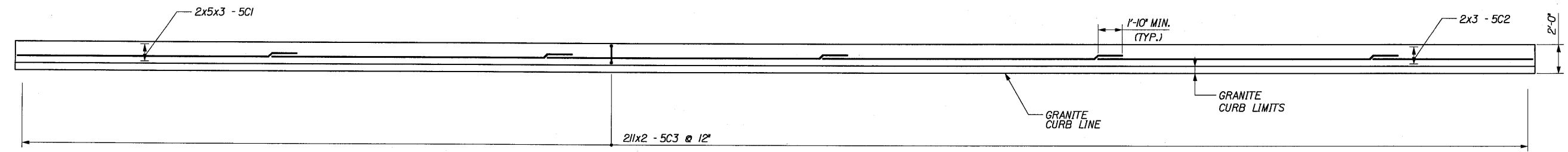


THE GOLD STAR
MEMORIAL HIGHWAY

COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
BEARING DETAILS
SHEET 2 OF 2



DECK PLAN (1 OF 2 DECKS)
(CURB REINF. NOT SHOWN, SEE CURB PLAN BELOW)
1/8"=1'-0"



PROPOSED CURB PLAN
(WEST CURB SHOWN, EAST CURB SIMILAR)
N.T.S.

- NOTES:
- AS AN ALTERNATE, AND AT THE CONTRACTOR'S OPTION, THE DECK CONCRETE MAY BE PLACED IN ONE CONTINUOUS OPERATION THUS ELIMINATING SLAB CONSTRUCTION JOINTS. CONTINUOUS PLACING OF CONCRETE IN DECK SHALL BE MADE WITH THE USE OF AN ACCEPTABLE SET RETARDER.
 - 1" φ PLASTIC DECK DRAIN OUTLETS TO STRINGERS AND FACES OF ABUTMENT: DO NOT COVER WITH MEMBRANE. DEPR. BELOW TOP OF SLAB.

Date: 3/28/2006
Filename: ...3-28-06\CS-S6_DeckPlan.dgn

Scale:

No.	Revision	By	Date

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THE GOLD STAR
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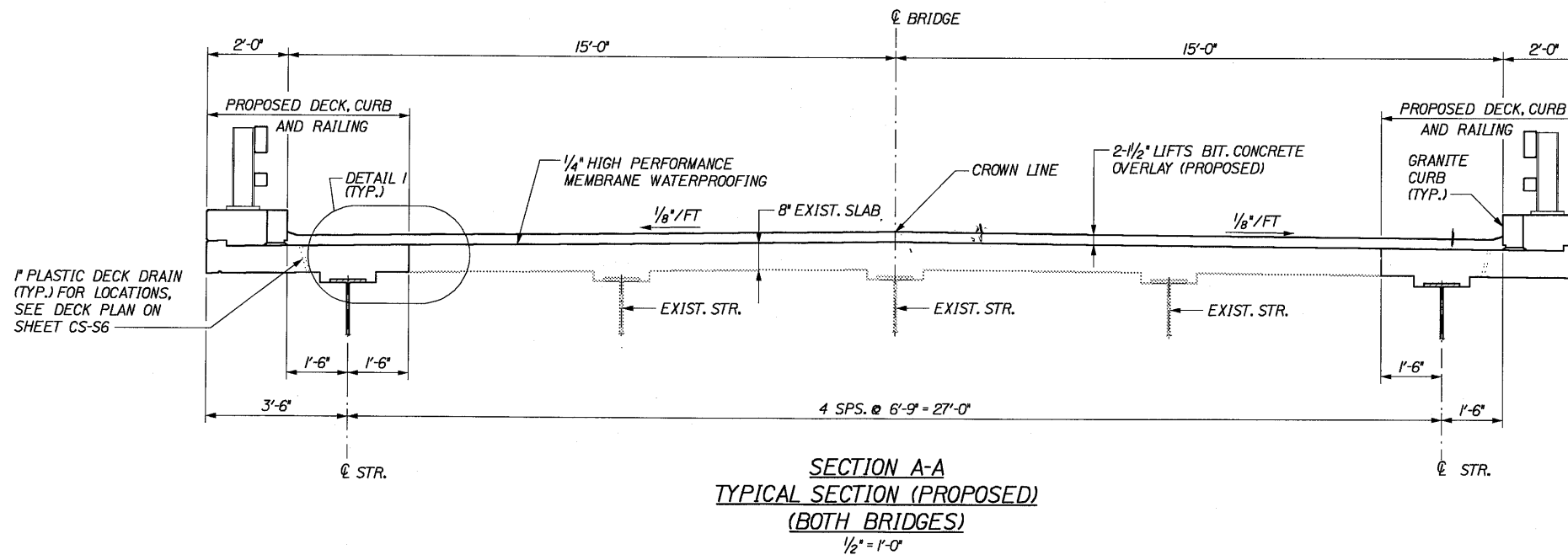
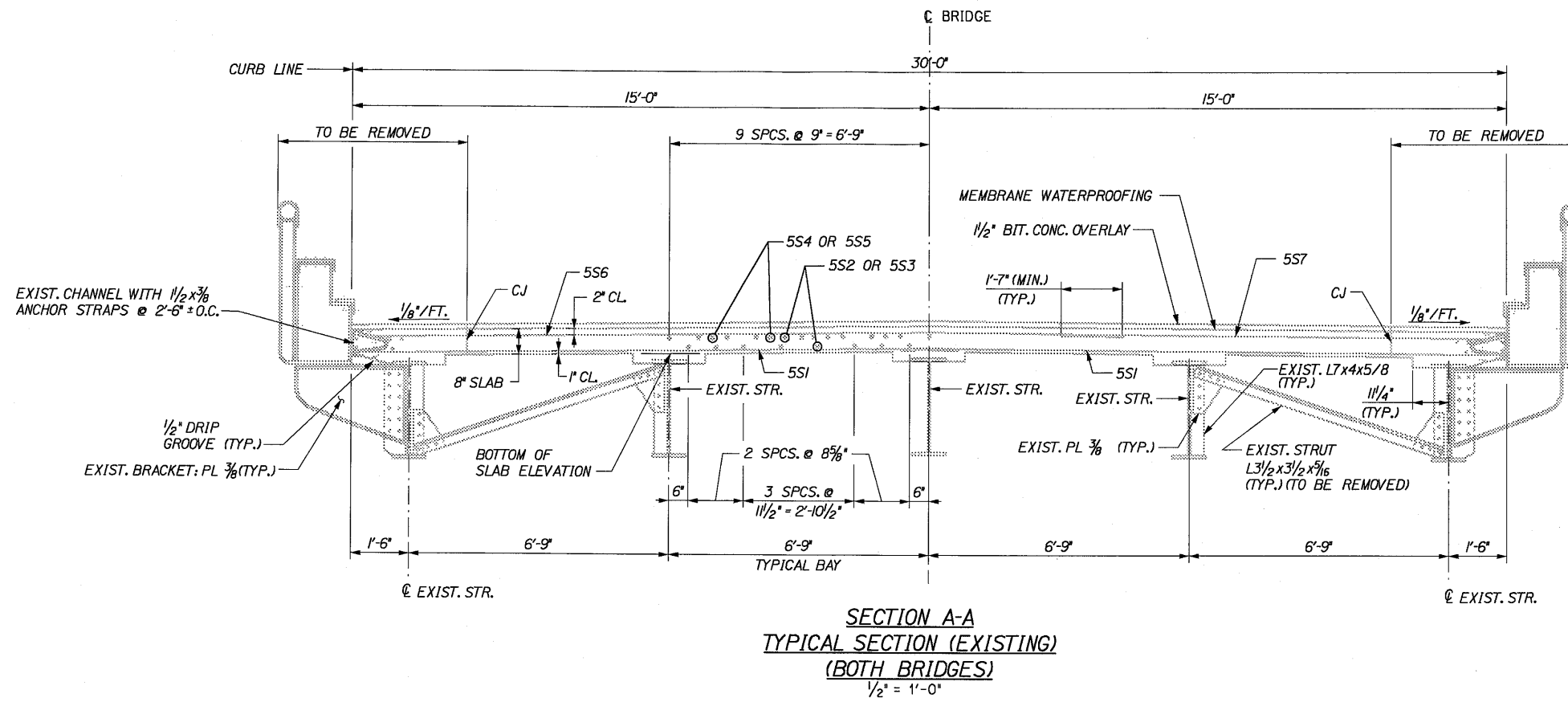
COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
DECK PLAN

SHEET NUMBER

CONTRACT: 2006.03

Date: 3/28/2006

Filename: ...3-28-06\CS-S7_TypSecs.dgn



PLACEMENT NOTES:

1. THE FORMWORK FOR THE CONSTRUCTION JOINTS REMAIN IN PLACE UNTIL A MINIMUM OF 48 HOURS ELAPSED AFTER PLACEMENT OF THE SLAB. AT REMOVAL OF FORMWORK MEETING THE REQUIREMENT OF SECTION 502 (STRUCTURAL) OF THE STANDARD SPECIFICATIONS, MAY PROC.
2. STAY IN PLACE FORMS ARE NOT ALLOWED TO

SUPERSTRUCTURE NOTES:

1. FOR STEEL REINFORCING SCHEDULE, SEE SHEET CS-S13.
2. FOR 2-BAR STEEL BRIDGE RAIL DETAILS, SEE SHEET CS-S8 AND MDOT STANDARD DETAILS.
3. FOR SLAB DETAILS, SEE SHEET CS-S8.
4. FOR EXPANSION JOINT DETAILS, SEE SHEET CS-S9 AND CS-S10.
5. SEE SPECIFICATION FOR LIST OF PREQUALIFIED MECHANICAL SPLICES.
6. 1" PLASTIC DECK DRAIN OUTLETS ARE INSTALLED SUCH THAT THEY DO NOT DRAIN ONTO A FLANGE OR BRIDGE SEAT.
7. ALL BITUMINOUS CONCRETE SHALL BE REMOVED PRIOR TO DEMOLISHING THE DECK.
8. AFTER THE DECK IS DEMOLISHED AS SHOWN, THE TOTAL LIVE LOAD (MANPOWER, EQUIPMENT, AND MATERIALS) ON THE CANTILEVER PORTION SHOULD BE LIMITED TO 80 psf DURING RECONSTRUCTION OF EXTERIOR STRINGER AND DECK.

Scale:				Designed by:			
No.	Revision	By	Date	<div style="text-align: center;"> <p>HNTB</p> <p>HNTB CORPORATION 2 Thomas Drive Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 772-7410</p> </div>			
		By	Date	By	Date	By	Date
		Designed	ZH 02/06	Checked	PMK 02/06		
		Drawn	RJC 02/06	In Charge of	RAL 02/06		

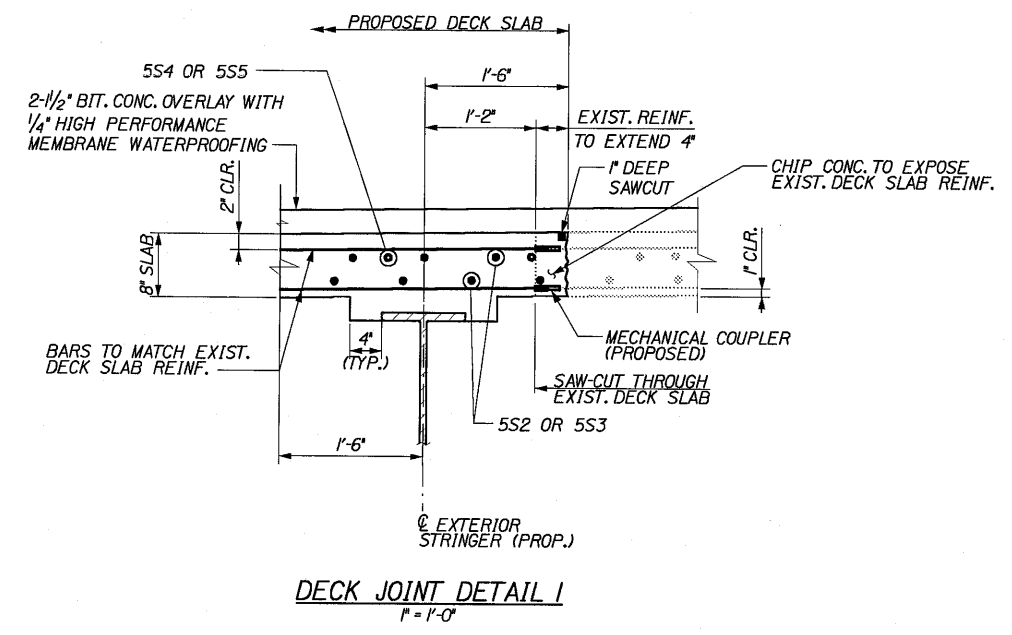


**THE GOLD STAR
MEMORIAL HIGHWAY**

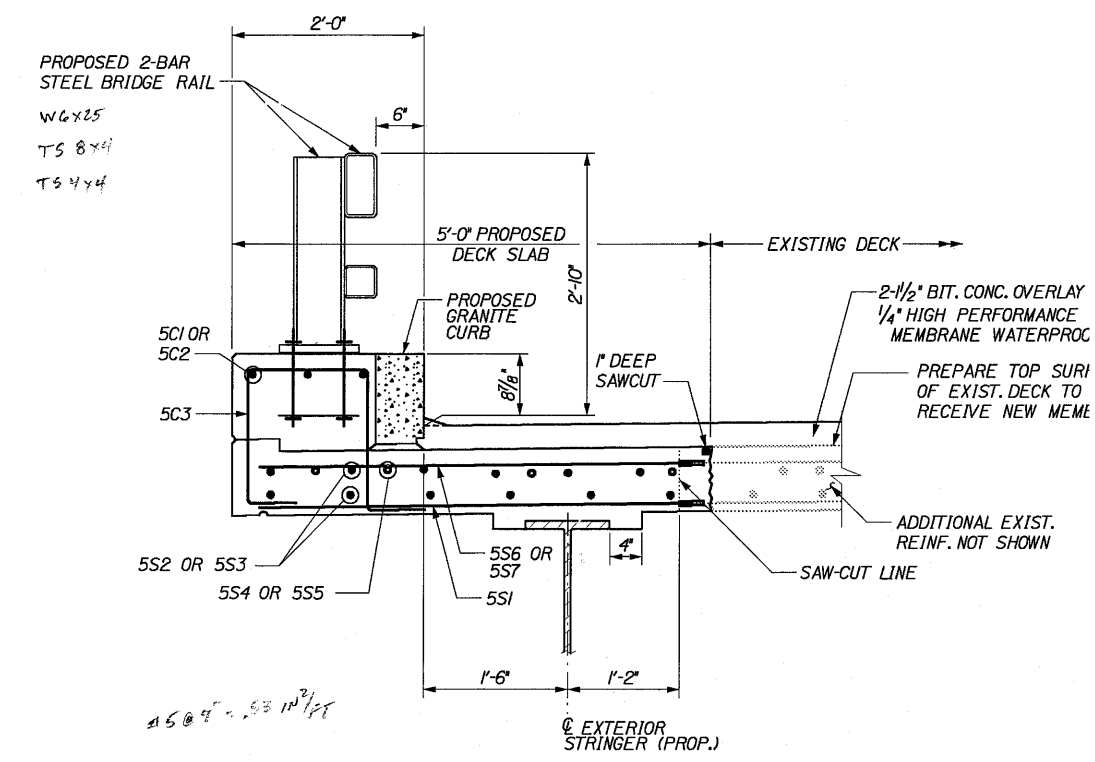
**COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
PROPOSED AND EXISTING
TYPICAL SECTION A-A**

Date: 3/28/2006

Filename: ...3-28-06 CS-58_DckSlabDets.dgn



DECK JOINT DETAIL I
1'-1'-0"



SECTION B-B (CS-S11)
PROPOSED 2 - BAR BRIDGE RAIL
1'-1'-0"

Scale:

No.	Revision	By	Date

Designed by:

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	By	Date		By	Date
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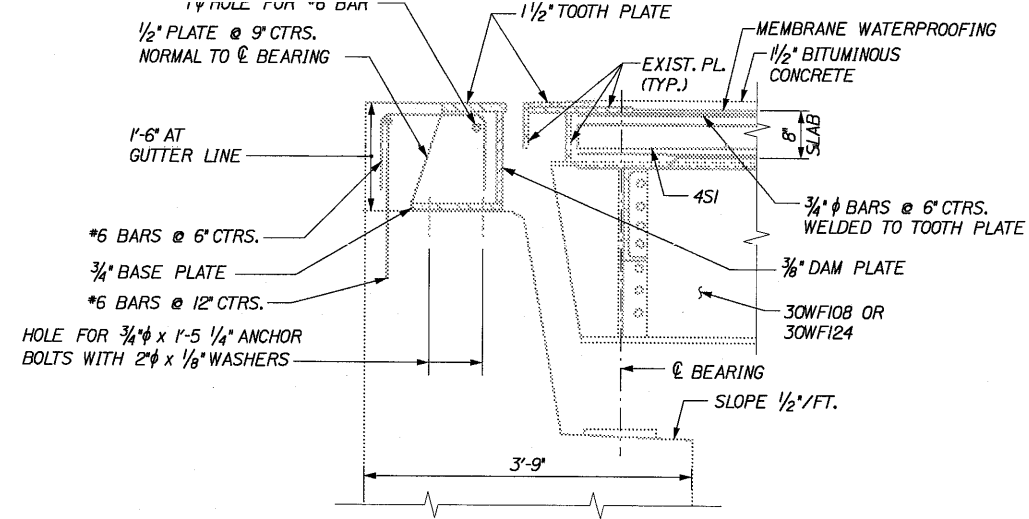
**COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
DECK SLAB DETAILS**

SHEET NUMBER

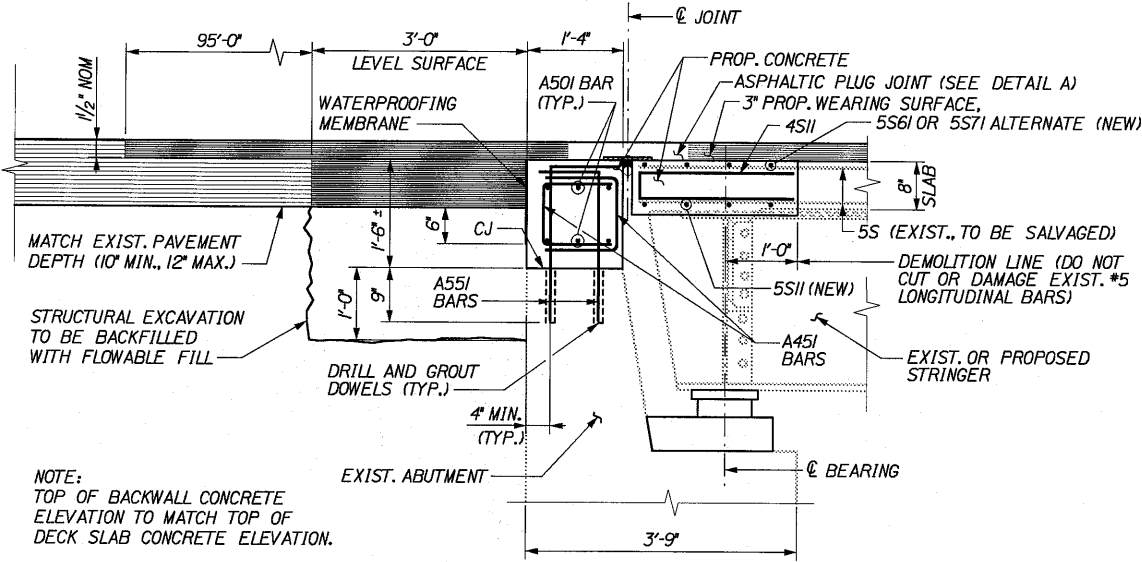
CONTRACT: 2006.03

Date: 3/28/2006

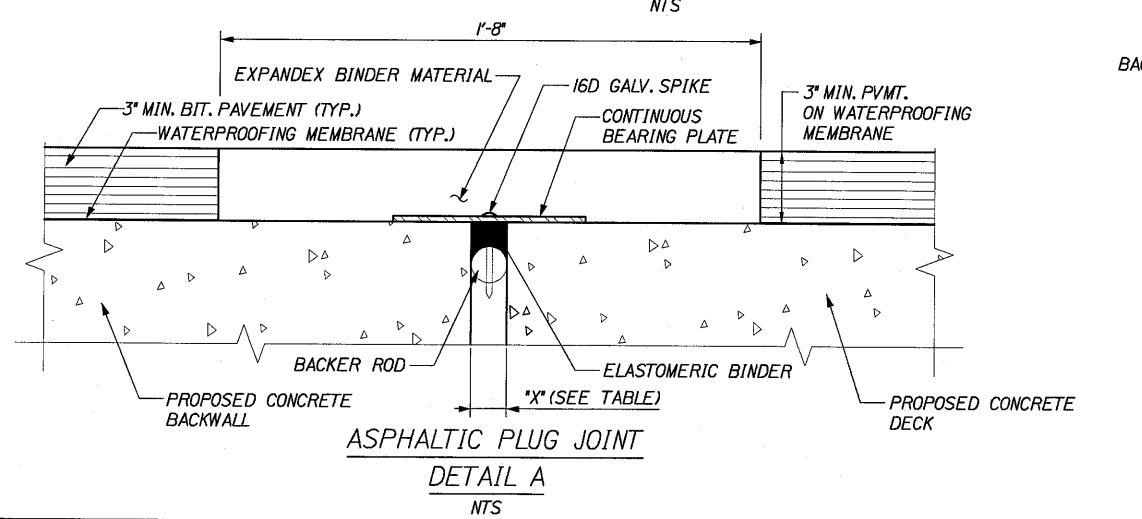
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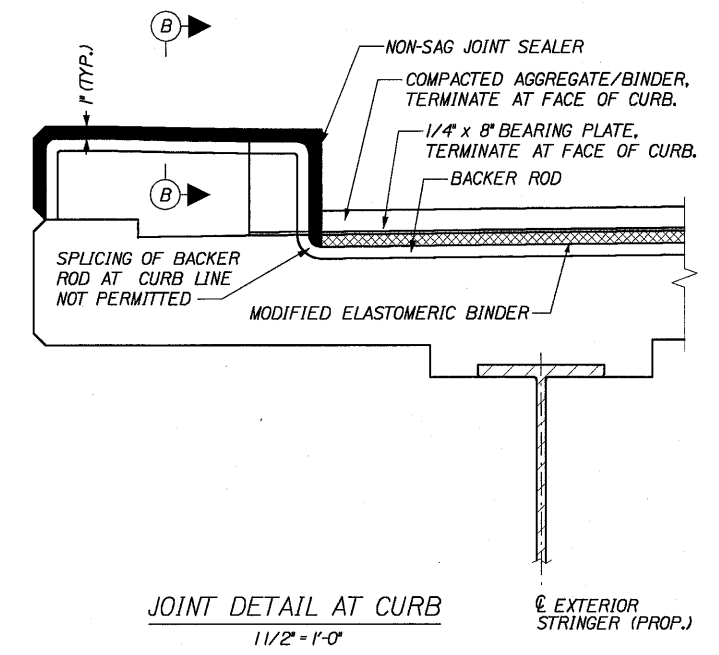
EXISTING SECTION
(FIELD VERIFY TYPICAL ALL ABUTMENTS)



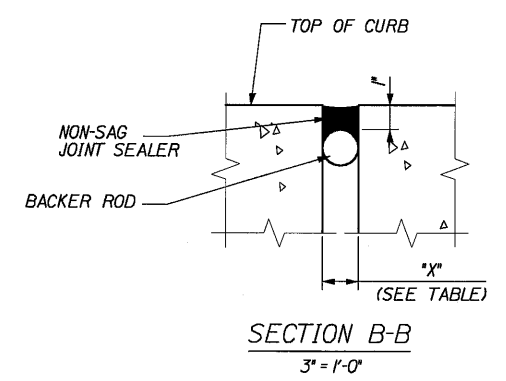
PROPOSED SECTION
(TYPICAL ALL ABUTMENTS)



ASPHALTIC PLUG JOINT
DETAIL A



JOINT DETAIL AT CURB
1 1/2\"/>



SECTION B-B
3\"/>

ASPHALTIC PLUG JOINT NOTES:

- 1. DECK AND BACKWALL REINFORCING NOT SHOWN FOR CLARITY.
- 2. CENTERING NAILS SHALL BE SPACED AT 12\"/>
- 3. THE BEARING PLATE SHALL BE GALVANIZED STEEL 1/4\"/>
- 4. ASPHALTIC PLUG JOINT SHALL BE ONE OF THE ASPHALTIC PLUG JOINT SYSTEMS LISTED IN THE SPECIFICATION. EQUIVALENT JOINT SYSTEMS MAY BE USED WITH APPROVAL OF THE ENGINEER.
- 5. ASPHALTIC PLUG JOINT SHALL BE INSTALLED AT THE END OF EACH PHASE OF CONSTRUCTION PRIOR TO TRAFFIC BEING PERMITTED TO TRAVEL ON THE REHABILITATED BRIDGE DECK.

JOINT INSTALLATION TABLE - NB AND SB BRIDGES

NORTH AND SOUTH ABUTMENTS							
TEMP. (°F)	20°	30°	40°	45°	50°	60°	70°
*X\"/>							

Scale:

No.	Revision	By	Date

Designed by:

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By	Date	By	Date
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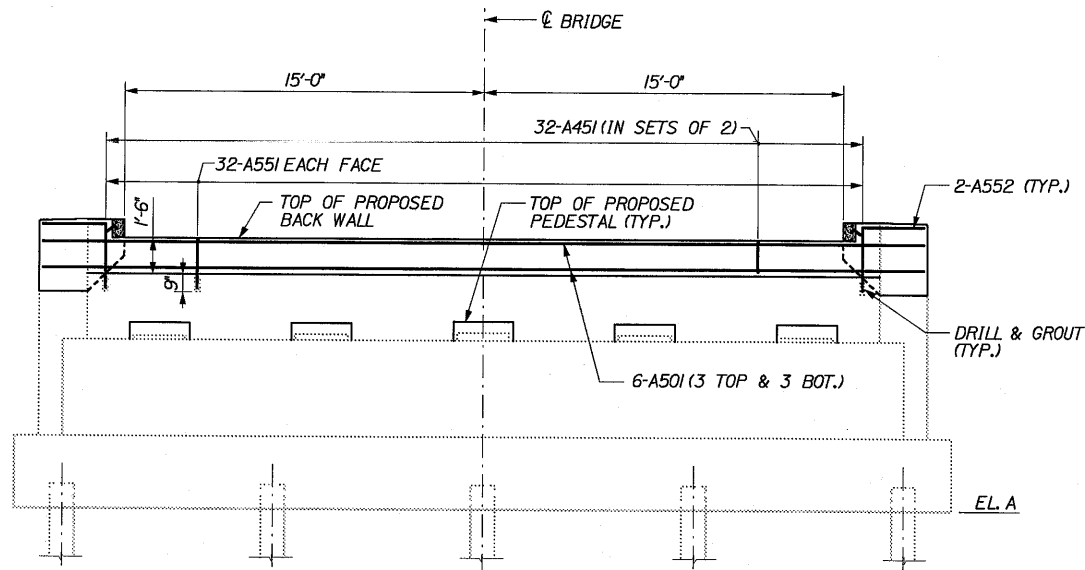
COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
EXPANSION JOINT DETAILS
SHEET 1 OF 2

SHEET NUMBER

CONTRACT: 2006.03

Date: 3/28/2006

Filename: ...3-28-06\CS-S10_ExpJtDets.dgn



NOTE:
FOR ADDITIONAL DIMENSIONAL
INFORMATION SEE SHEET CS-S18.

PROPOSED ELEVATION
(TYPICAL ALL ABUTMENTS)
N.T.S.

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
	By	Date		By	Date
Designed	ZH	02/06	Checked	PMK	02/06
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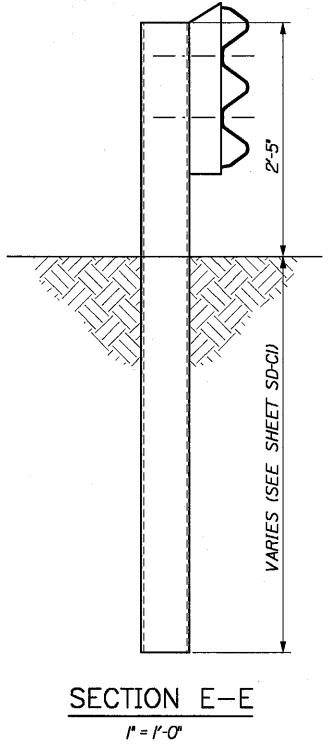
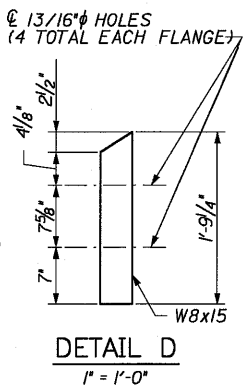
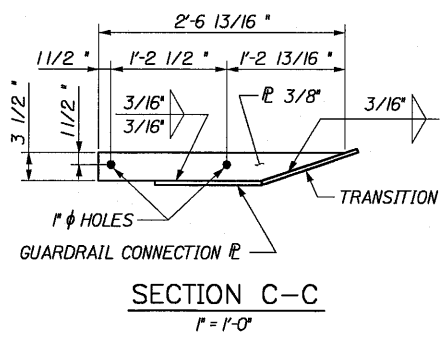
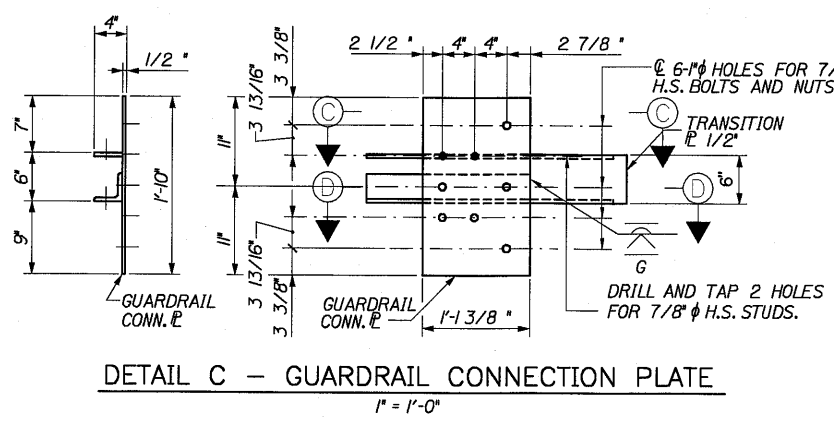
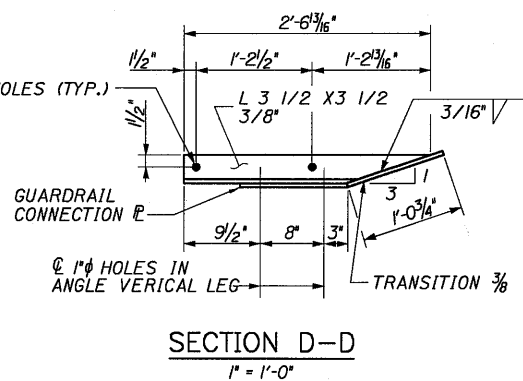
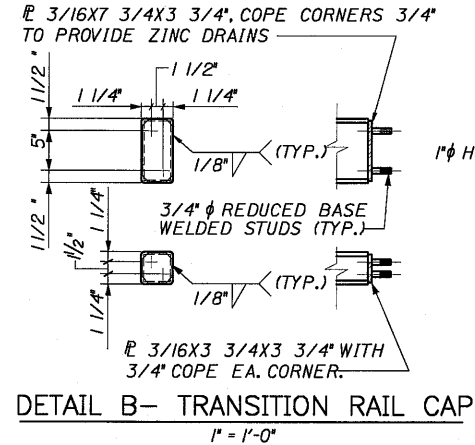
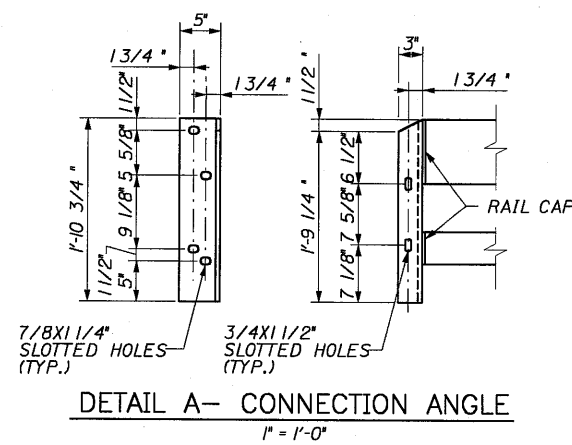
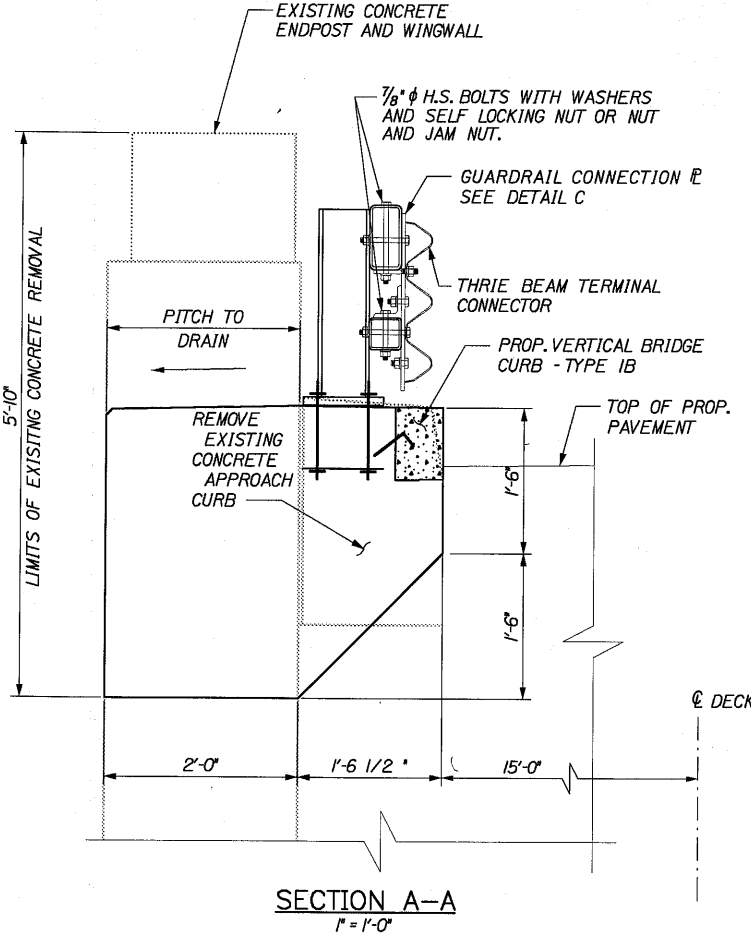
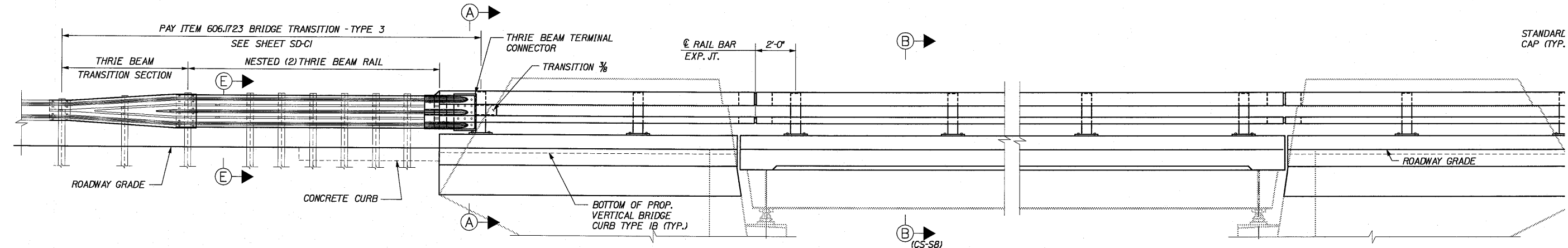
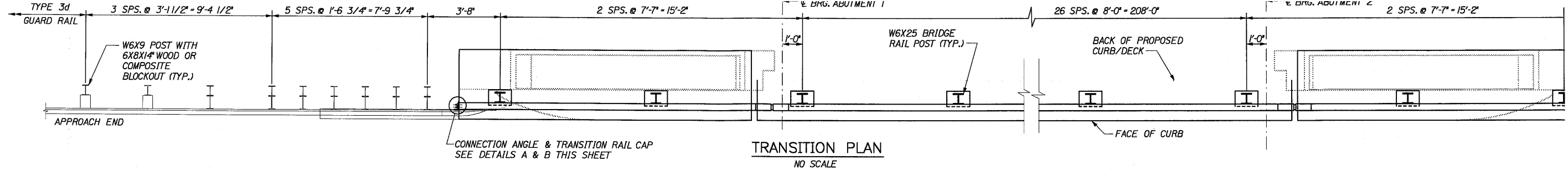


**THE GOLD STAR
MEMORIAL HIGHWAY**

COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
EXPANSION JOINT DETAILS
SHEET 2 OF 2

CONTRACT: 2006.03

SHEET NUMB



NOTE
 1. FOR BRIDGE RAIL NOTES SEE SHEET CCS
 2. FOR DIMENSIONS AND DEMOLITION SEE SH

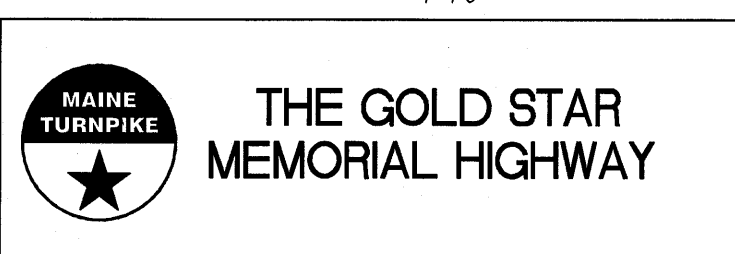
Date: 3/28/2006
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No.	Revision	By	Date

Scale: _____ Designed by: **HNTB**

	By	Date		By	Date
Designed	ZH	02/06	Checked	PMK	02/06
Drawn	RJT	02/06	In Charge of	RAL	02/06

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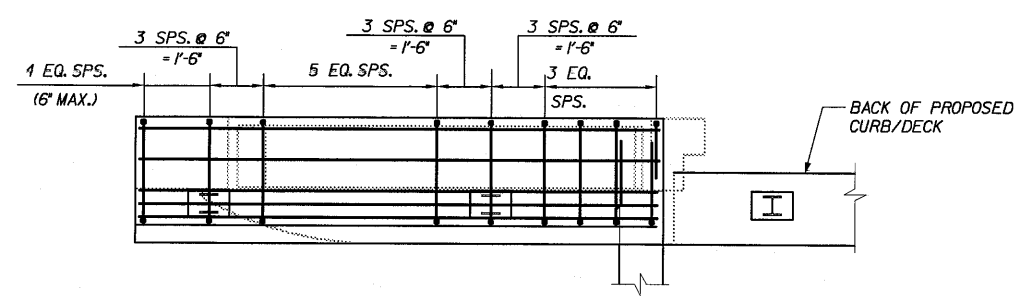


**COBBOSSECONTEE STREAM
 BRIDGE REHABILITATION
 BRIDGE RAIL MODIFICATION TRANS
 DETAILS**

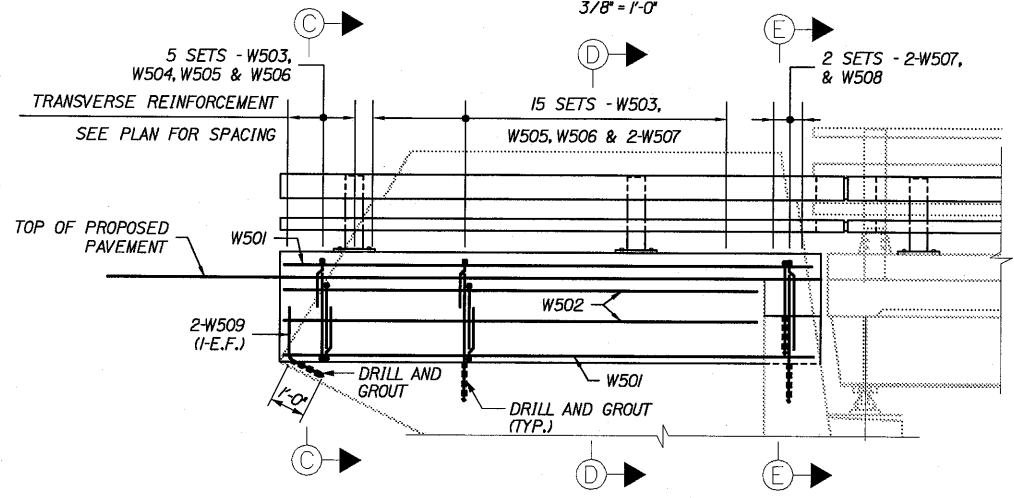
CONTRACT: 2006.03 SHEET NUMBER _____

Date: 3/28/2006

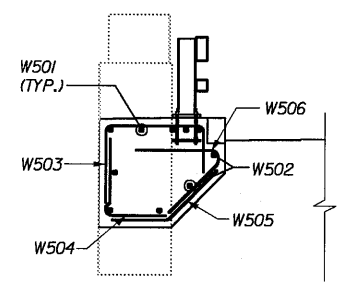
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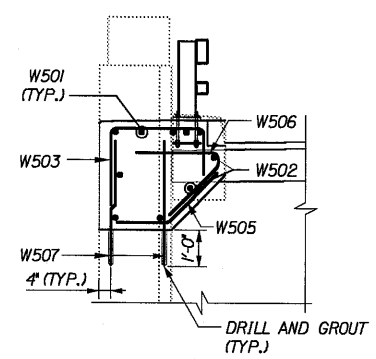
REINFORCEMENT PLAN
3/8" = 1'-0"



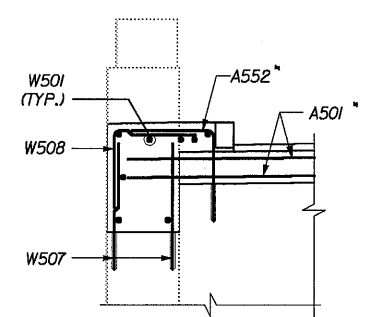
REINFORCEMENT ELEVATION
3/8" = 1'-0"



SECTION C-C
3/8" = 1'-0"



SECTION D-D
3/8" = 1'-0"



SECTION E-E
3/8" = 1'-0"

* COORDINATE PLACEMENT OF A501 AND A552 REINFORCING BARS WITH BACKWALL MODIFICATIONS

NOTES

1. DRILL AND GROUT ALL REINFORCING BARS 12 IN MINIMUM.
2. DRILLING AND GROUTING THE REINFORCING STEEL BARS SHALL BE INCIDENTAL TO THE REINFORCING STEEL, PLACING PAY ITEM.
3. THE ANCHORING MATERIAL SHALL BE ONE OF THE PRODUCTS LISTED ON THE MAINE DEPARTMENT OF TRANSPORTATION LIST OF PREQUALIFIED TYPE ANCHORING MATERIALS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
	By	Date		By	Date
	Designed	ZH 02/06	Checked	PMK	02/06
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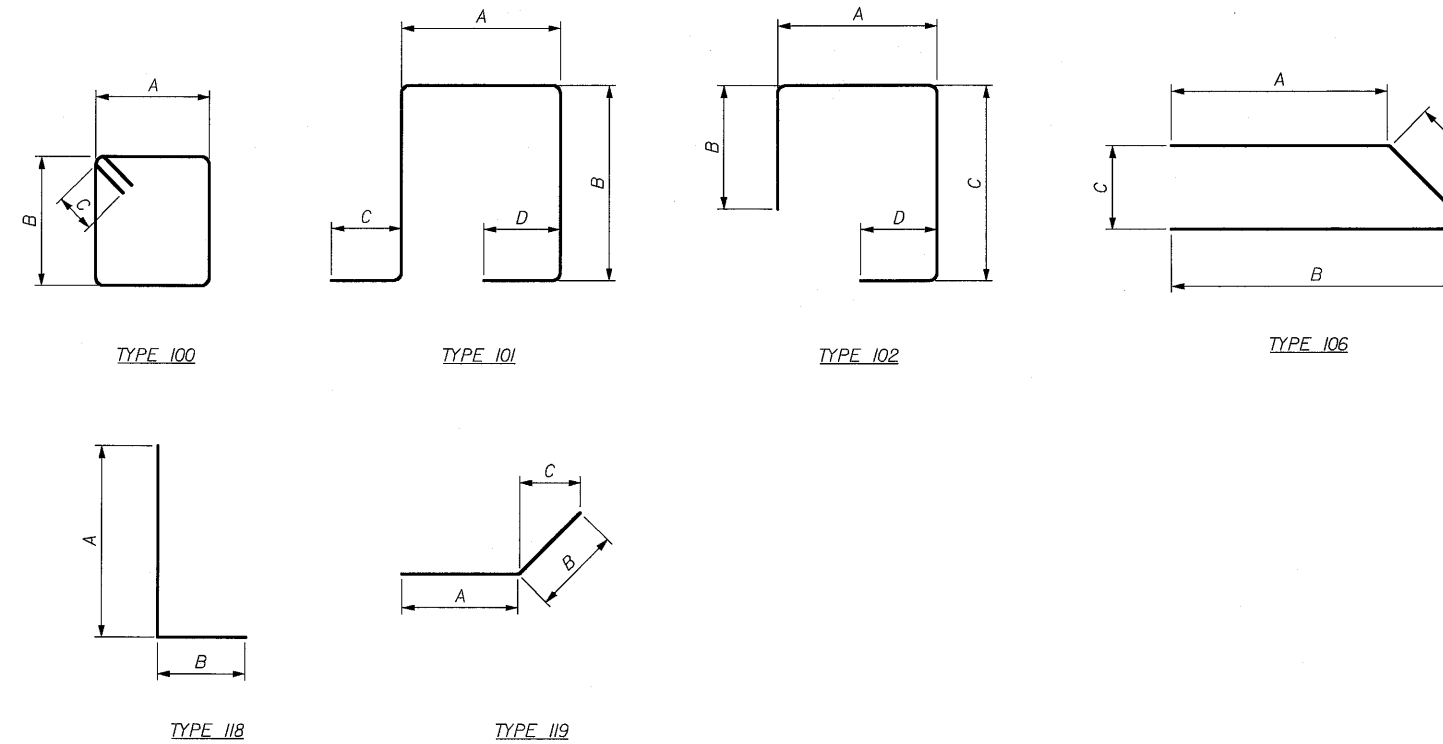
**THE GOLD STAR
MEMORIAL HIGHWAY**

**COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
WINGWALL REINFORCEMENT
DETAILS**

MARK	SIZE	NO.*	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
DECK SLAB										
4SI	4	48	10'-5"	10I	5"	5'-0"				AT ABUTMENT JOINTS
4SII	4	116	4'-1"	10I	5"	1'-10"				
5SI	5	1464	4'-9"	STR						TRANSVERSE BOTTOM
5SII	5	32	17'-8"	STR						
5S2	5	240	40'-0"	STR						LONG. DISTR. T & B
5S3	5	48	22'-1"	STR						LONG. DISTR. T & B
5S4	5	32	29'-2"	STR						PIER 1 & 3 TOP ADDITIONAL
5S5	5	16	30'-6"	STR						PIER 2 TOP ADDITIONAL
5S6	5	1464	4'-9"	STR						TRANSVERSE TOP
5S6I	5	16	22'-0"	STR						TRANSVERSE TOP
5S7I	5	16	13'-3"	STR						TRANSVERSE TOP
CONCRETE CURB										
5C1	5	60	40'-0"	STR						LONG.
5C2	5	12	22'-1"	STR						LONG. DISTR.
5C3	5	844	5'-3"	10I	1'-1"	1'-3"	10"	10"		STIRRUPS
ABUTMENTS										
5A1	5	32	4'-0"	10I	12"	1'-6"				PEDESTAL
5A2	5	32	4'-0"	10I	12"	1'-6"				PEDESTAL
5A3	5	16	4'-0"	10I	12"	1'-6"				PEDESTAL
5A4	5	40	1'-10"	STR						PEDESTAL
A45I	4	256	3'-1"	10I	1'-1"	12"				BACKWALL - STIRRUPS
A50I	5	24	36'-8"	STR						LONGITUDINAL
A55I	5	256	2'-10"	118	2'-0"	10"				DOWEL BARS
A552	5	16	4'-9"	118	2'-7"	2'-2"				DOWEL BARS
PIERS										
6P1	6	56	9'-2"	10I	2'-8"	3'-3"				STIRRUPS
6P2	6	32	7'-6"	10I	2'-8"	2'-5"				STIRRUPS
6P3	6	10	5'-7"	STR						
6P4	6	10	5'-4"	STR						
6P5	6	4	4'-4"	STR						
6P6	6	4	4'-7"	STR						
6P7	6	48	3'-4"	STR						
6P8	6	2	3'-7"	STR						
6P9	6	2	3'-4"	STR						
6P10	6	32	4'-7"	106	12"	12"	2'-6"	2'-7"		

MARK	SIZE	NO.*	LENGTH	TYPE	DIMENSIONS					LOCATION AND REMARKS
					A	B	C	D	E	
WINGWALLS										
W501	5	64	14'-5"	STR	-	-	-	-	-	LONGITUDINAL
W502	5	16	13'-2"	STR	-	-	-	-	-	LONGITUDINAL
W503	5	160	6'-1"	102	2'-7"	1'-3"	2'-3"	-	-	TRANSVERSE
W504	5	40	3'-11"	118	2'-3"	1'-8"	-	-	-	TRANSVERSE
W505	5	160	3'-9"	119	1'-10"	1'-11"	1'-4"	-	-	TRANSVERSE
W506	5	160	4'-3"	106	-	2'-3"	1'-9"	2'-0"	-	TRANSVERSE
W507	5	272	3'-2"	STR	-	-	-	-	-	DOWEL
W508	5	16	4'-6"	118	2'-3"	2'-3"	-	-	-	TRANSVERSE
W509	5	16	2'-6"	119	1'-6"	1'-0"	6"	-	-	TRANSVERSE DOWEL

*NOTE: STEEL COUNT IS FOR BOTH BRIDGES



Date: 3/28/2006

Filename: ...CS-S13_Reinf_Sitl_Schedule.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
	By	Date		By	Date
Designed	ZH	02/06	Checked	PMK	02/06
Drawn	RJC	02/06	In Charge of	RAL	02/06

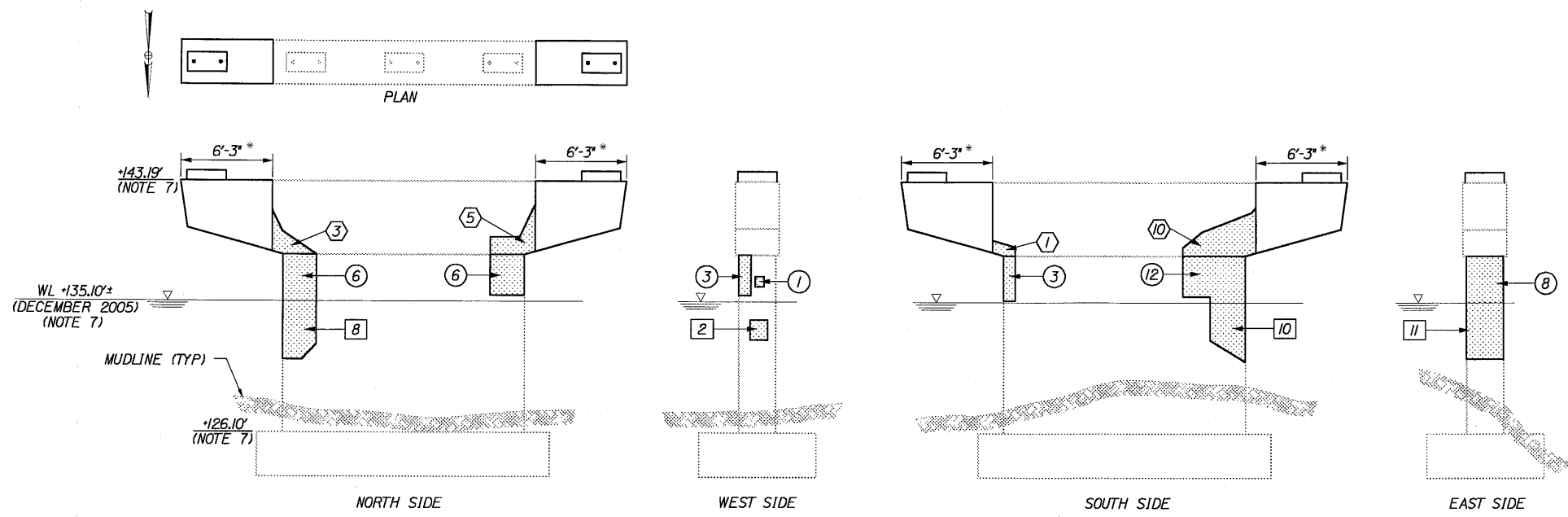
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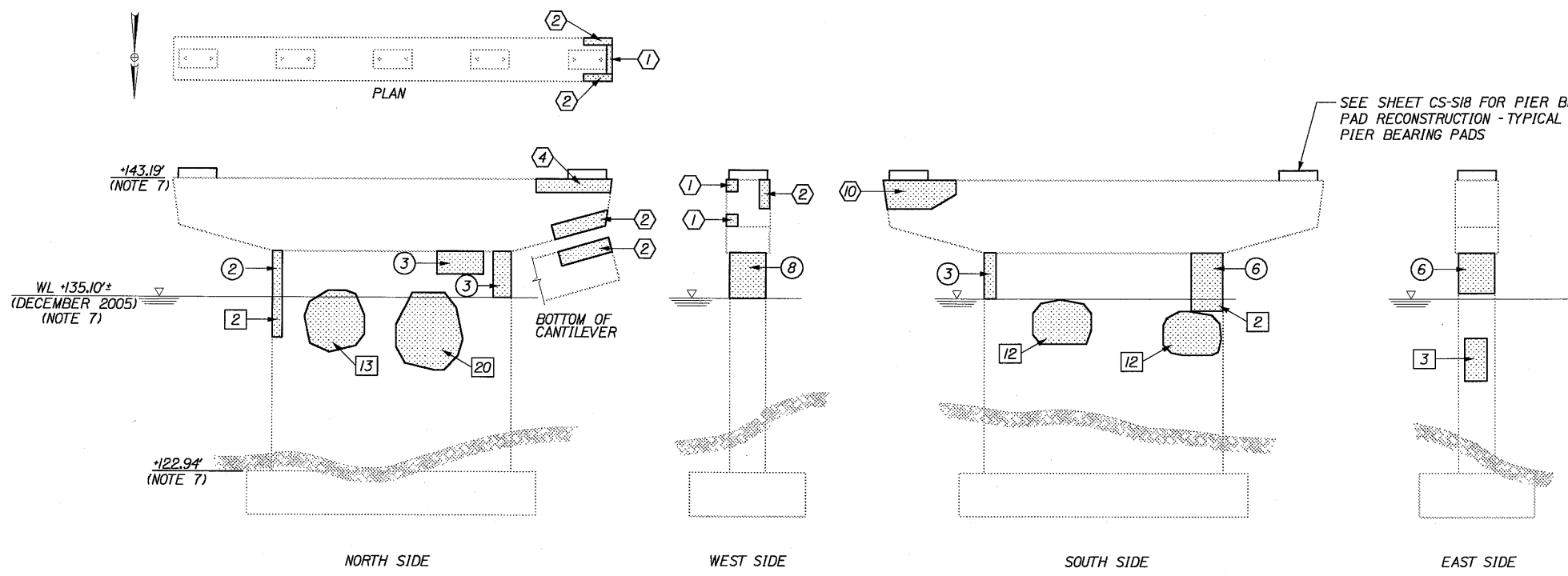
**THE GOLD STAR
MEMORIAL HIGHWAY**

**COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
REINFORCEMENT STEEL SCHEDULE**

CONTRACT: 2006.03 SHEET NUMBER



ELEVATION WEST PIER I
SCALE: 3/16"=1'-0"



ELEVATION EAST PIER I
SCALE: 3/16"=1'-0"

- LEGEND:**
- (3) INDICATES APPROXIMATE PIER CAP REPAIR AREA SQUARE FEET OF REPAIR.
 - (3) INDICATES APPROXIMATE PIER STEM REPAIR AREA (ABOVE WATER) AND SQUARE FEET OF REPAIR.
 - (13) INDICATES APPROXIMATE PIER STEM REPAIR AREA (BELOW WATER) AND SQUARE FEET OF REPAIR.
 - [] AREA OF REPAIR
 - [] MUDLINE ADJACENT TO STRUCTURE

- NOTES:**
- 1.) MUDLINE COVERS ENTIRE FOOTING OF BOTH PIERS.
 - 2.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE NOTES ON SHEET CS-S17)
 - 3.) * INDICATES CANTILEVER SECTION TO BE REMOVED AND REPLACED. (SEE SHEET CS-S17 FOR DETAILS)
 - 4.) ON FULL CANTILEVER REMOVALS THE #10 BARS IN THE HAMMERHEAD SHALL REMAIN. THE CONCRETE REMOVAL TECHNIQUE SHOULD NOT DAMAGE THE NOTED #10 REINFORCING STEEL.
 - 5.) ALL PIER CONCRETE (ABOVE THE WATER LINE) SHALL BE COATED WITH PIGMENTED CONCRETE PROTECTIVE COATING AFTER THE CONCRETE REPAIRS AND HAMMERHEAD MODIFICATIONS ARE COMPLETED.
 - 6.) PRIOR TO THE START OF THE CONCRETE REPAIRS THE RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOULD THE REPAIR AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.
 - 7.) ELEVATIONS ARE FROM NGVD 29 AND ARE GIVEN FOR REFERENCE ONLY.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPTH REPAIR (INCLUDING ADDITIONAL 10%):

PIER I WEST	=	(2)	(43)	(34)
PIER I EAST	=	(28)	(34)	(70)

SEE SHEET CS-S18 FOR PIER BEARING PAD RECONSTRUCTION - TYPICAL ALL PIER BEARING PADS

Date: 3/28/2006

Filename: ... \CS-S14_Pier_Repairs1.dgn

Scale:

No.	Revision	By	Date

Designed by:

HNTB

	By	Date		By	Date
Designed	ZH	02/06	Checked	PMK	02/06
Drawn	RJC	02/06	In Charge of	RAL	02/06

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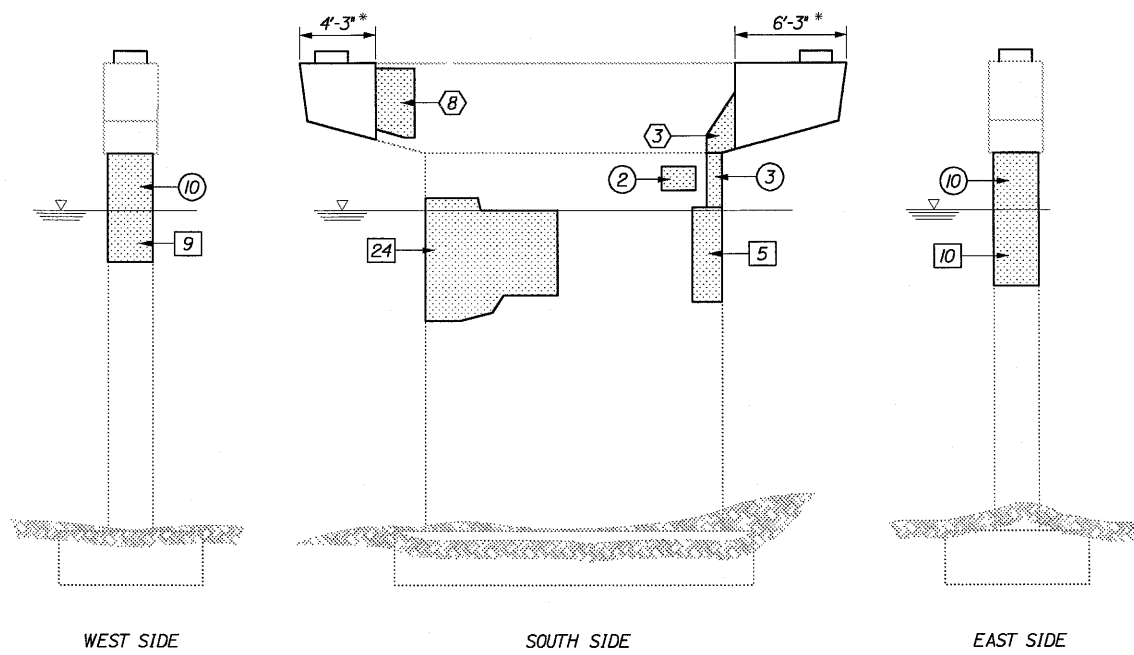
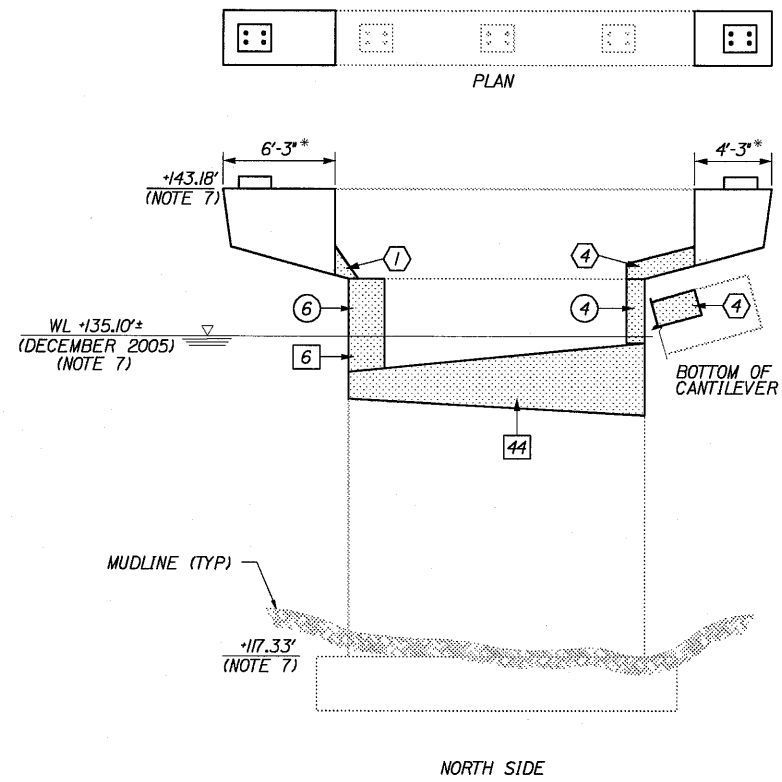


THE GOLD STAR
MEMORIAL HIGHWAY

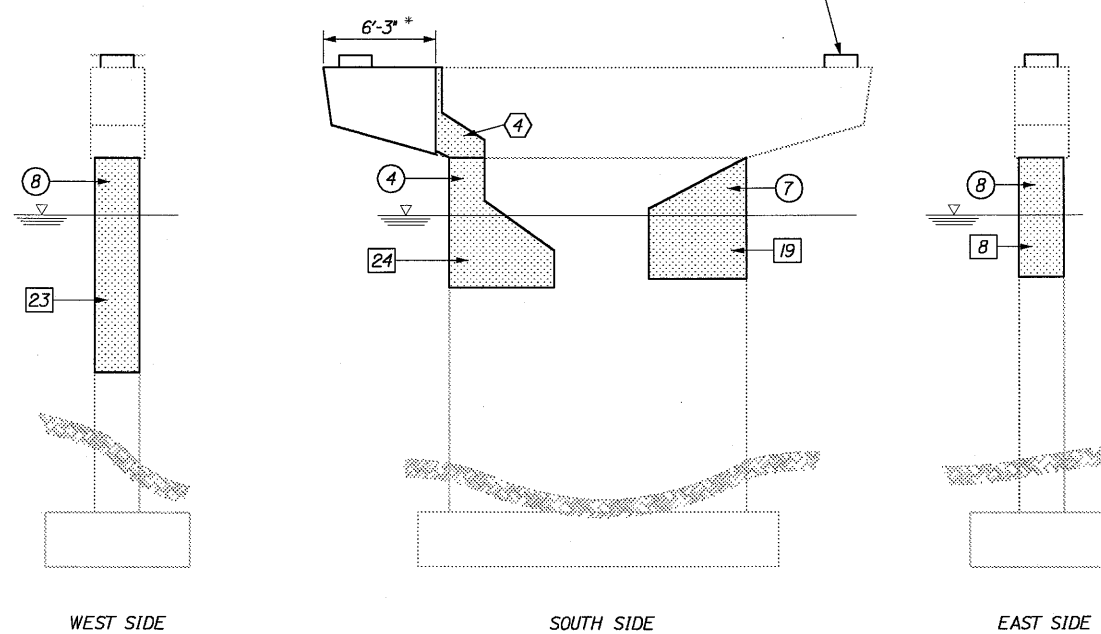
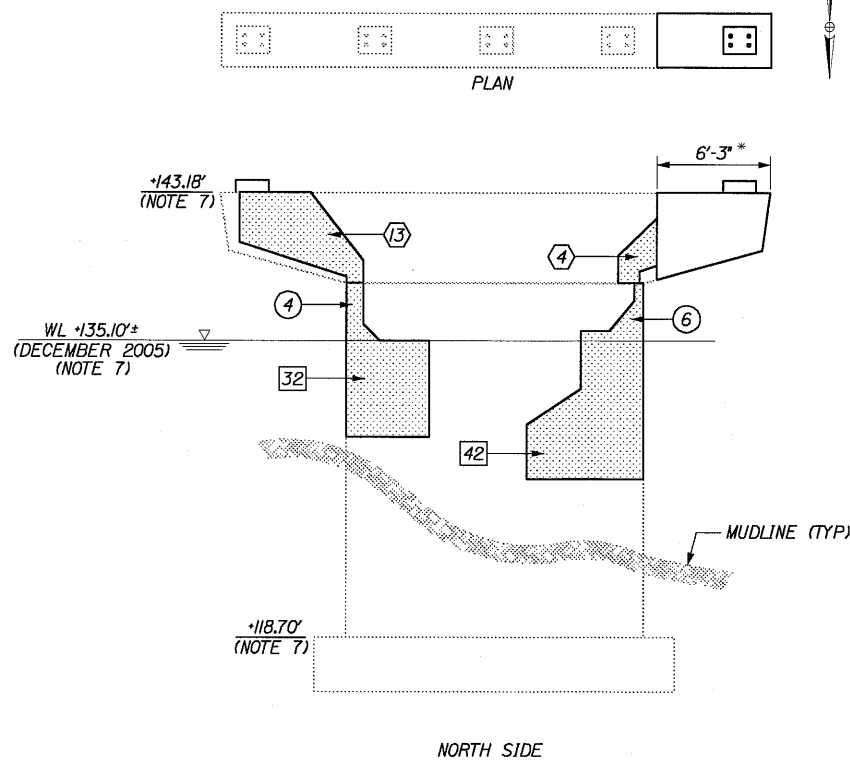
COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
PIER REPAIRS
SHEET 1 OF 4

SHEET NUMBER

CONTRACT: 2006.03



ELEVATIONS WEST PIER 2
SCALE: 3/16"=1'-0"



ELEVATIONS EAST PIER 2
SCALE: 3/16"=1'-0"

LEGEND:

- ⑬ INDICATES APPROXIMATE PIER CAP REPAIR AREA AND SQUARE FEET OF REPAIR.
- ⑬ INDICATES APPROXIMATE PIER STEM REPAIR AREA (ABOVE WATER) AND SQUARE FEET OF REPAIR.
- ⑬ INDICATES APPROXIMATE PIER STEM REPAIR AREA (BELOW WATER) AND SQUARE FEET OF REPAIR.
- AREA OF REPAIR
- ▨ MUDLINE ADJACENT TO STRUCTURE

NOTES:

- 1.) MUDLINE COVERS ENTIRE FOOTING OF BOTH PIERS.
- 2.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE NOTES ON SHEET CS-S17)
- 3.) * INDICATES CANTILEVER SECTION TO BE REMOVED AND REPLACED. (SEE SHEET CS-S17 FOR DETAILS)
- 4.) ON FULL CANTILEVER REMOVALS THE #10 BARS IN THE HAMMERHEAD SHALL REMAIN. THE CONCRETE REMOVAL TECHNIQUE SHOULD NOT DAMAGE THE NOTED #10 REINFORCING STEEL.
- 5.) ALL PIER CONCRETE (ABOVE THE WATER LINE) SHALL BE COATED WITH PIGMENTED CONCRETE PROTECTIVE COATING AFTER THE CONCRETE REPAIRS AND HAMMERHEAD MODIFICATIONS ARE COMPLETED.
- 6.) PRIOR TO THE START OF THE CONCRETE REPAIRS THE RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOULD THE REPAIR AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.
- 7.) ELEVATIONS ARE FROM NGVD 29 AND ARE GIVEN FOR REFERENCE ONLY.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPTH REPAIR (INCLUDING ADDITIONAL 10%):

PIER 2 WEST = 22 39 108
PIER 2 EAST = 23 41 163

Date: 3/28/2006

Filename: ... \CS-S15_Pier_Repairs2.dgn

No.	Revision	By	Date

Designed by:			
HNTB			
	By	Date	
Designed	ZH	02/06	Checked
Drawn	RJC	02/06	In Charge of
	By	Date	
	PMK	02/06	
	RAL	02/06	

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**THE GOLD STAR
MEMORIAL HIGHWAY**

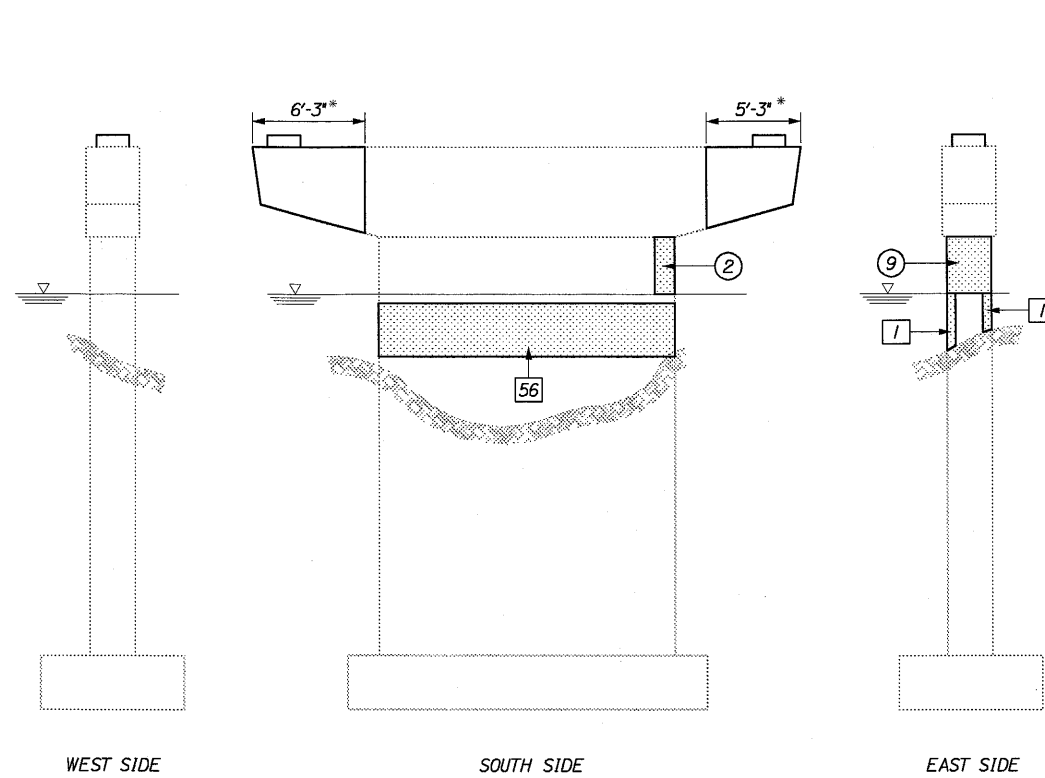
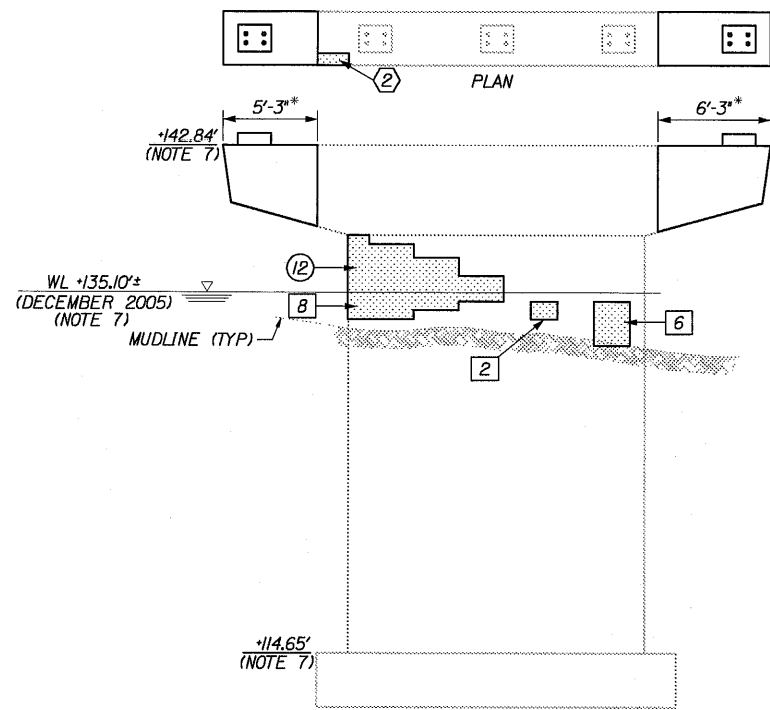
COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
PIER REPAIRS
SHEET 2 OF 4

SHEET NUMBER

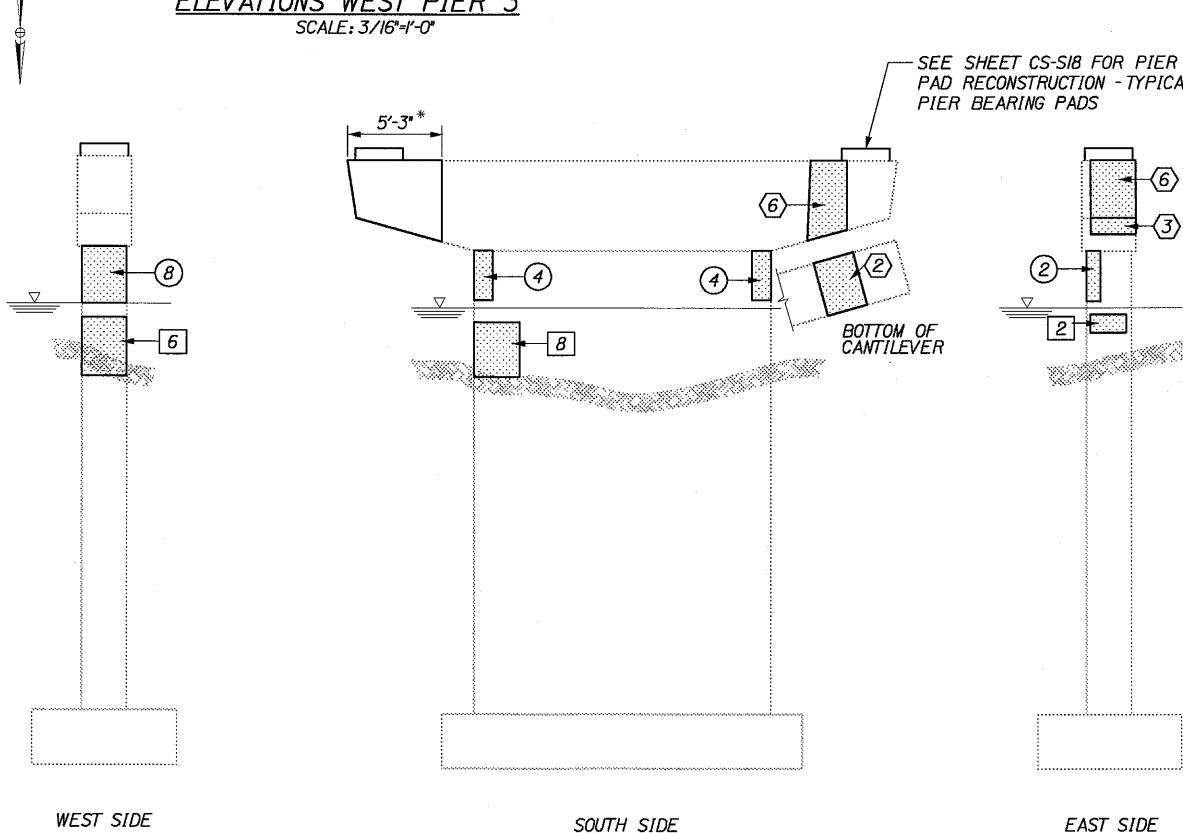
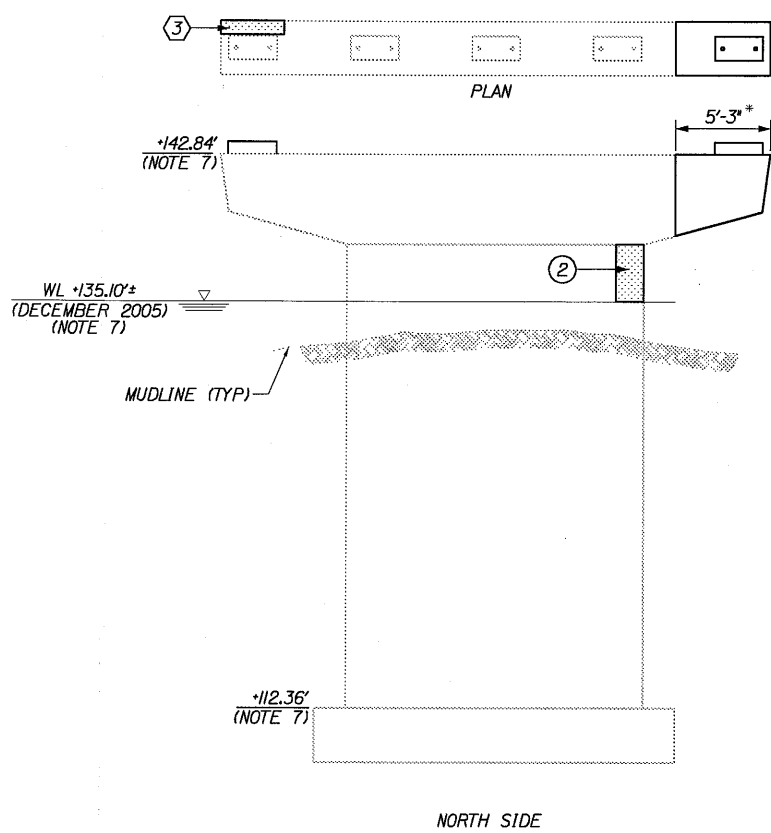
CONTRACT: 2006.03

Date: 3/28/2006

Filename: ... \CS-S16_Pier_Repairs3.dgn



ELEVATIONS WEST PIER 3
SCALE: 3/16"=1'-0"



ELEVATIONS EAST PIER 3
SCALE: 3/16"=1'-0"

LEGEND:

- (12) INDICATES APPROXIMATE PIER CAP REPAIR AREA, SQUARE FEET OF REPAIR.
- (13) INDICATES APPROXIMATE PIER STEM REPAIR AREA (ABOVE WATER) AND SQUARE FEET OF REPAIR.
- (13) INDICATES APPROXIMATE PIER STEM REPAIR AREA (BELOW WATER) AND SQUARE FEET OF REPAIR.
- [SHADING] AREA OF REPAIR
- [HATCHING] MUDLINE ADJACENT TO STRUCTURE

NOTES:

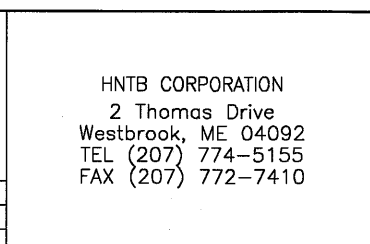
- 1.) MUDLINE COVERS ENTIRE FOOTING OF BOTH PIERS.
- 2.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE NOTES ON SHEET CS-S17)
- 3.) * INDICATES CANTILEVER SECTION TO BE REMOVED AND REPLACED. (SEE SHEET CS-S17 FOR DETAILS)
- 4.) ON FULL CANTILEVER REMOVALS THE #10 BARS IN THE HAMMERHEAD SHALL REMAIN. THE CONCRETE REMOVAL TECHNIQUE SHOULD NOT DAMAGE THE NOTED #10 REINFORCING STEEL.
- 5.) ALL PIER CONCRETE (ABOVE THE WATER LINE) SHALL BE COATED WITH PIGMENTED CONCRETE PROTECTIVE COATING AFTER THE CONCRETE REPAIRS AND HAMMERHEAD MODIFICATIONS ARE COMPLETED.
- 6.) PRIOR TO THE START OF THE CONCRETE REPAIRS THE RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOULD THE REPAIR AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.
- 7.) ELEVATIONS ARE FROM NGVD 29 AND ARE GIVEN FOR REFERENCE ONLY.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPTH REPAIR (INCLUDING ADDITIONAL 10%):

PIER 3 WEST	(2)	(26)	(82)
PIER 3 EAST	(22)	(22)	(18)

Scale:				Designed by:				
No.	Revision	By	Date					
				By	Date	Checked	By	Date
				ZH	02/06		PMK	02/06
				RJC	02/06	In Charge of	RAL	02/06

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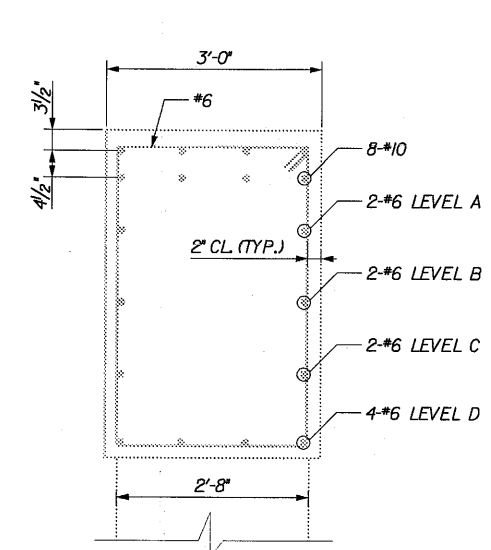
THE GOLD STAR
MEMORIAL HIGHWAY

COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
PIER REPAIRS
SHEET 3 OF 4

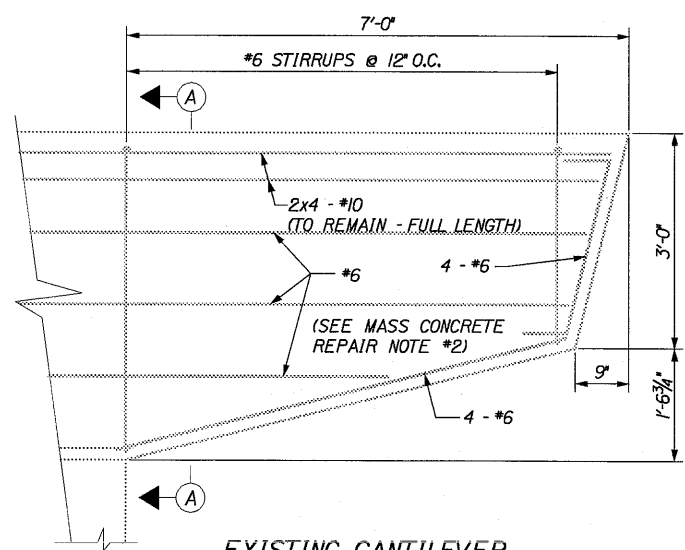
CONTRACT: 2006.03

SHEET NUMBER

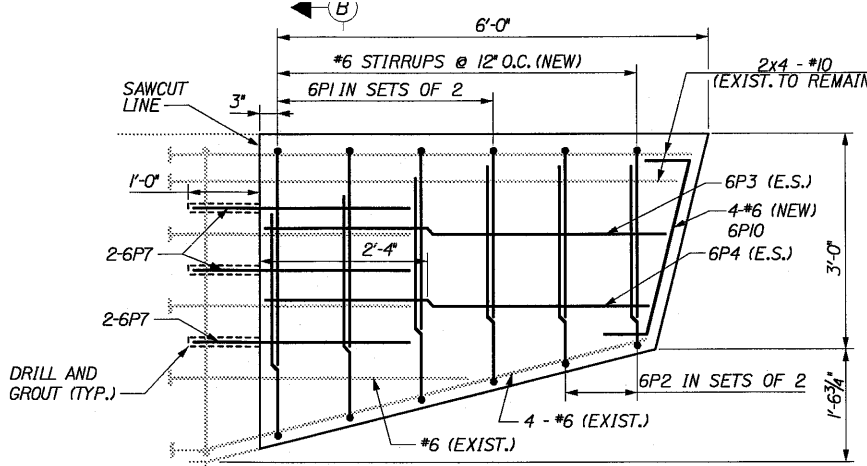
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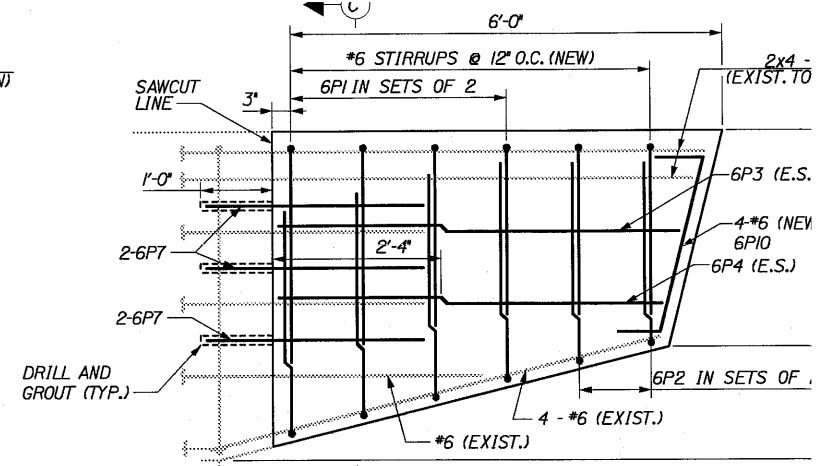
SECTION A-A (EXIST.)
3/4" = 1'-0"



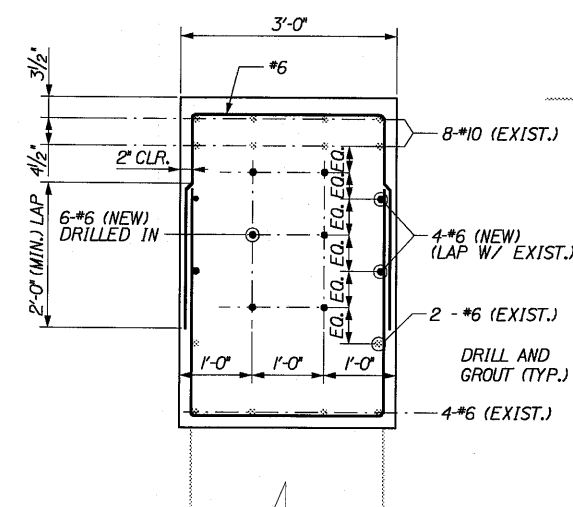
EXISTING CANTILEVER
3/4" = 1'-0"



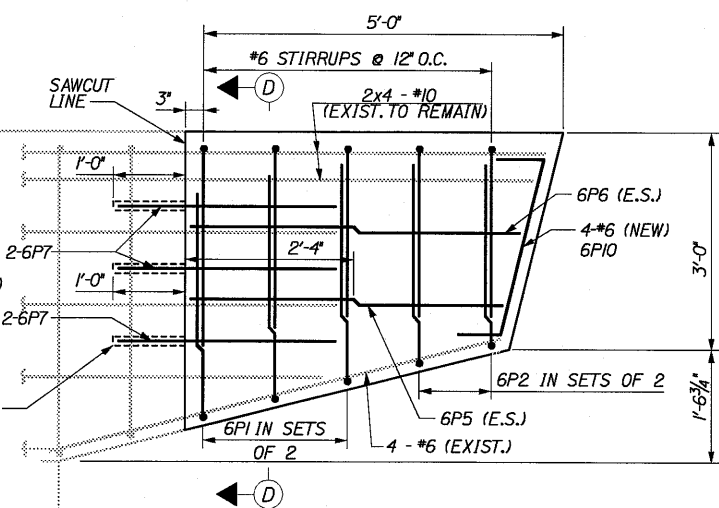
CANTILEVER REPLACEMENT
PIER 1: WEST, EAST CANTILEVER SHOWN
WEST, WEST CANTILEVER OP HAND
PIER 2: WEST, EAST CANTILEVER SHOWN
EAST, WEST CANTILEVER OP HAND
3/4" = 1'-0"



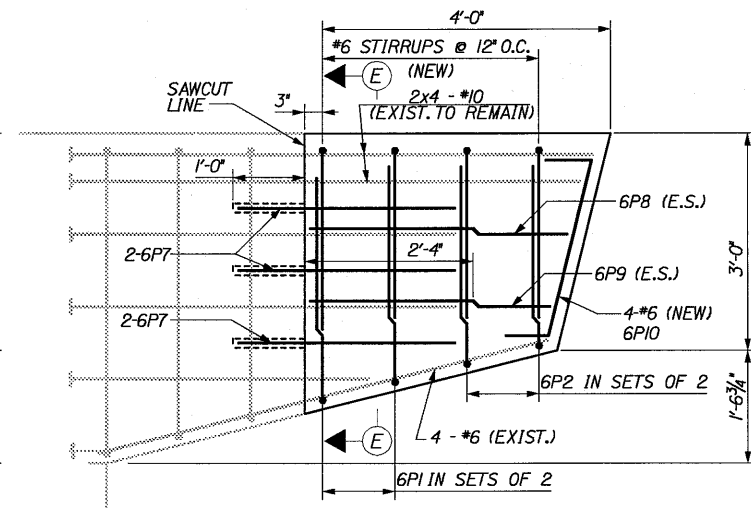
CANTILEVER REPLACEMENT
PIER 3: WEST, WEST CANTILEVER
3/4" = 1'-0"



SECTIONS B-B, C-C, D-D & E-E
PROPOSED CANTILEVER
3/4" = 1'-0"



CANTILEVER REPLACEMENT
PIER 3: WEST, EAST CANTILEVER SHOWN
PIER 3: EAST, WEST CANTILEVER OP. HAND
3/4" = 1'-0"

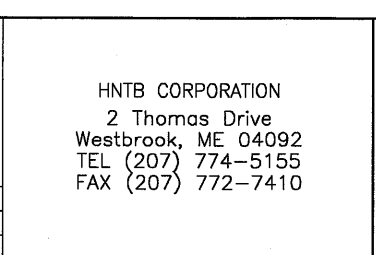


CANTILEVER REPLACEMENT
PIER 2: WEST, WEST CANTILEVER
3/4" = 1'-0"

- PIER REPAIR PROCEDURES:**
- A. MASS CONCRETE REPAIR:
 1. COMPLETE REMOVAL OF PIER CANTILEVER CONCRETE TO THE DISTANCE INDICATED. SAVE THE EXISTING MAIN LONGITUDINAL REINFORCING. PROVIDE NEW STIRRUPS, TEMPERATURE AND SHRINKAGE REINFORCING AND RECAST THE CANTILEVERS WITH CLASS AAA CONCRETE.
 2. THE FOLLOWING LONGITUDINAL #6 REINFORCING SHALL ALSO BE SAVED AND RECAST INTO THE NEW CANTILEVER.
 - LEVELS A & B - 2'-4" BEYOND THE VERTICAL CUT LINE.
 - LEVELS C & D - FULL LENGTH BEYOND THE VERTICAL (
 3. AT THE CONTRACTOR'S OPTION THE LONGITUDINAL #6 REINFORCING BARS (LEVELS A, B, C, & D) MAY BE CUT 6" BEYOND THE VERTICAL LINE AND SPLICED WITH MECHANICAL/WELDED SPLICES. PAYMENT FOR THE MECHANICAL SPLICE AND ADDITIONAL #6 REINFORCING SHALL BE INCIDENTAL TO THE CUBIC YARD PAY ITEM.
 - B. PARTIAL DEPTH HAMMERHEAD REPAIR - SURFACE PATCH AREAS ARE INCLUDED IN THE MASS CONCRETE REPAIR AREAS:
 1. CHIP, PREP AND PATCH REPAIR AREAS WITH CLASS AAA MODIFIED CONCRETE. SEE SPECIFICATIONS FOR MATERIAL, PREPARATION, PLACEMENT AND CURING REQUIREMENTS.
 - C. PARTIAL DEPTH PIER REPAIR - ABOVE WATER AND BELOW WATER REPAIR:
 1. CHIP, PREP AND PATCH REPAIR AREAS WITH A STRUCTURAL FC MODIFIED CONCRETE. SEE SPECIFICATIONS FOR MATERIAL, PREPARATION, PLACEMENT AND CURING REQUIREMENTS.

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		02/06		RAL	02/06



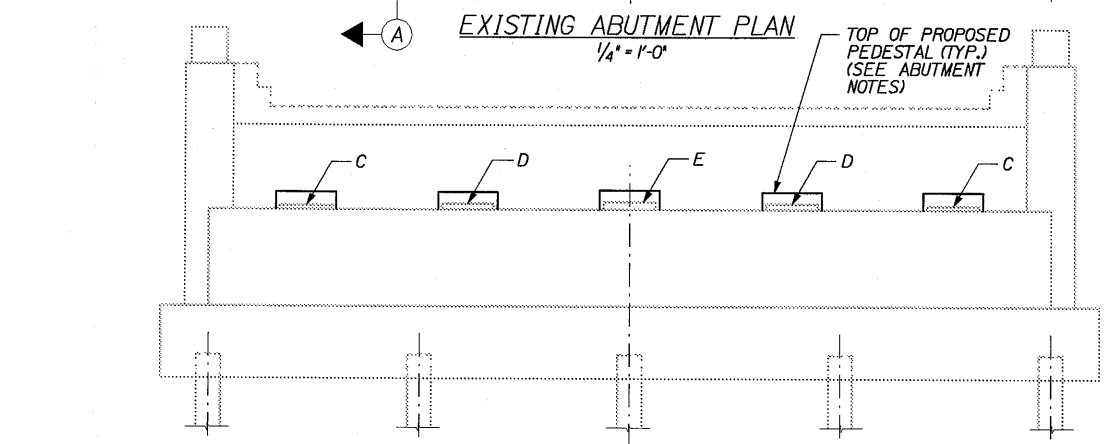
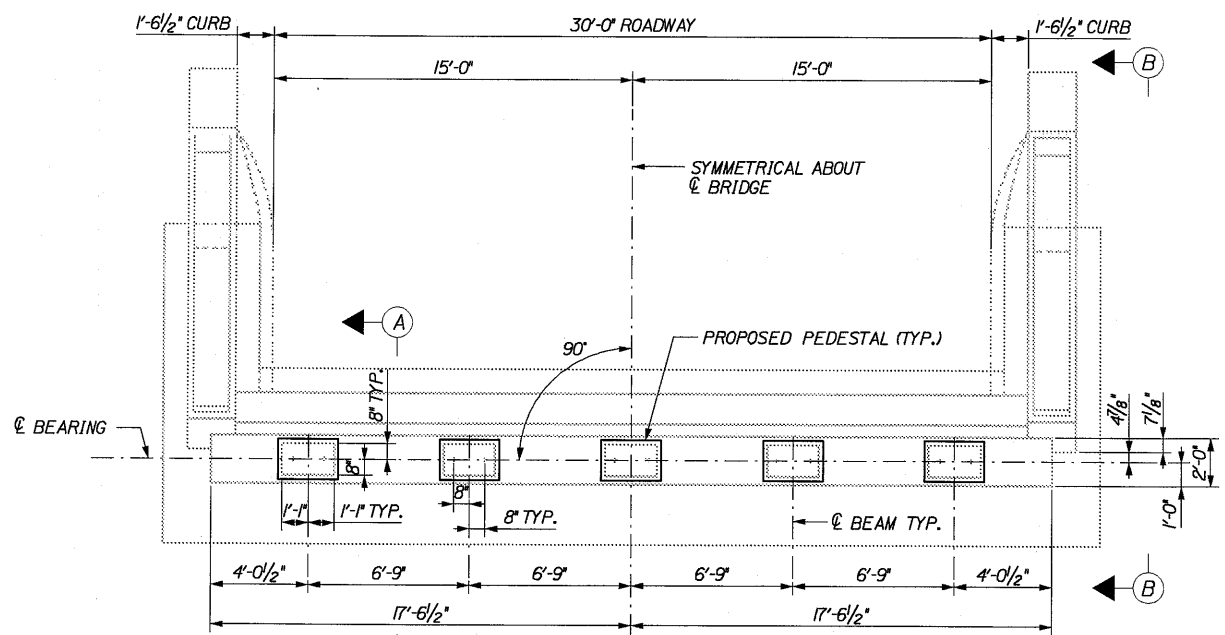
**THE GOLD STAR
MEMORIAL HIGHWAY**

**COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
PIER REPAIRS
SHEET 4 OF 4**

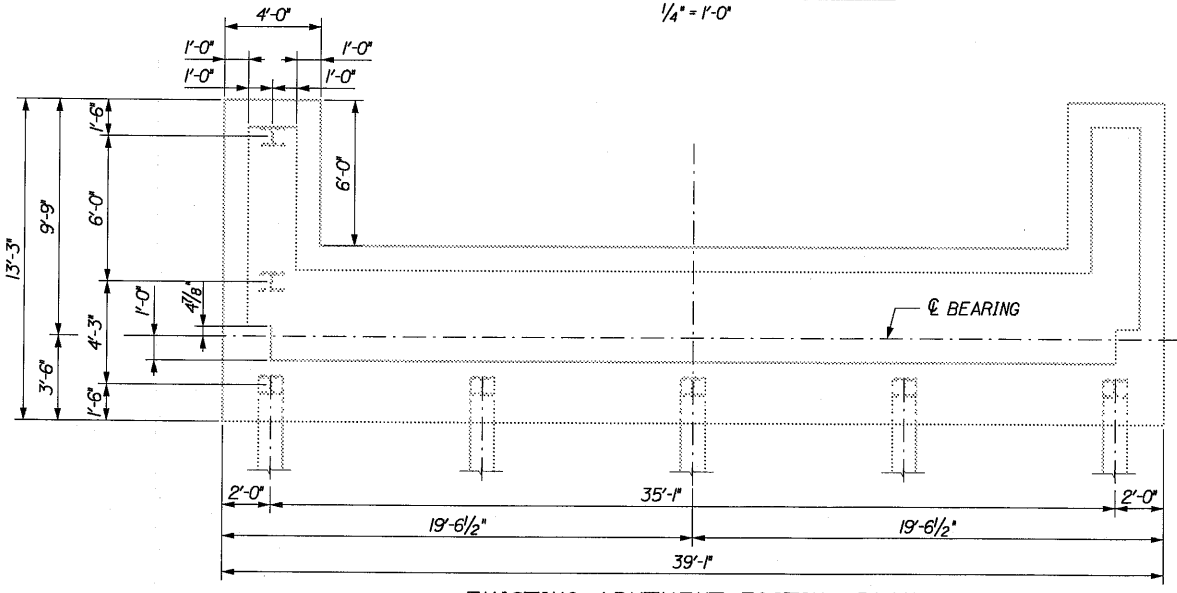
SHEET NUMBER
CONTRACT: 2006.03

Date: 3/28/2006

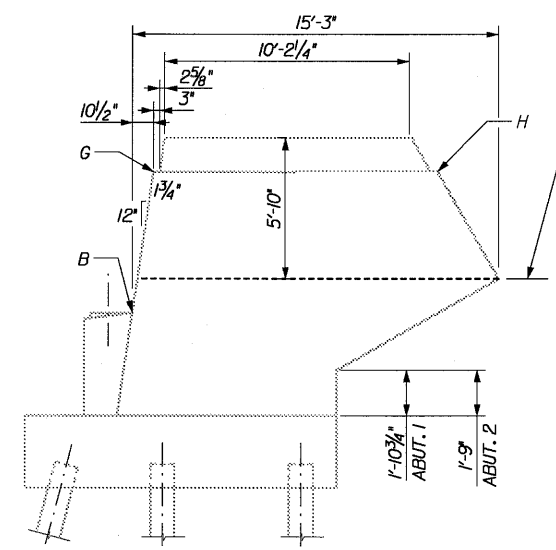
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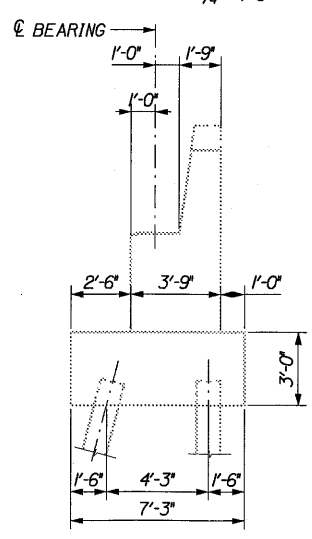
EXISTING ABUTMENT ELEVATION
1/4\"/>



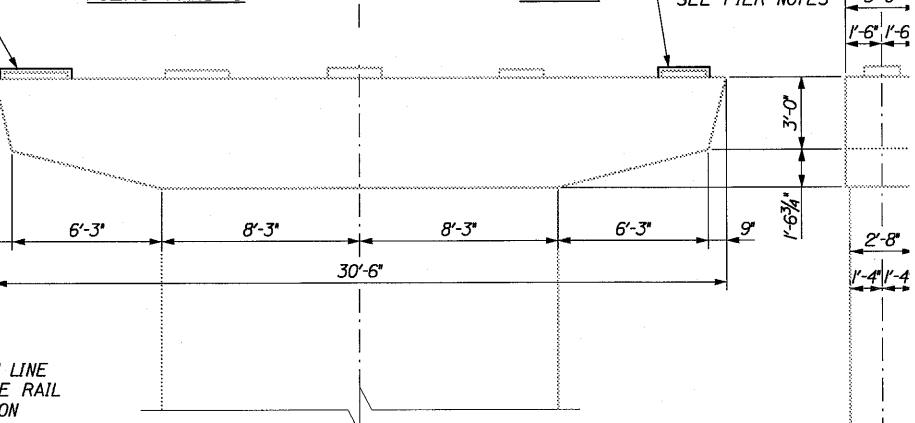
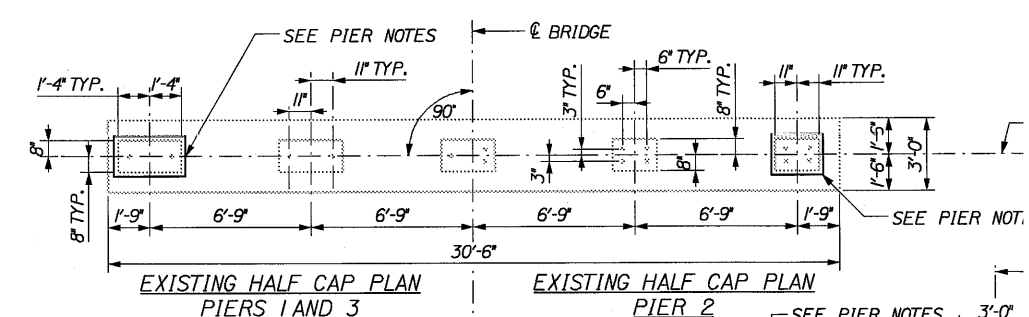
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1/4\"/>



EXISTING ELEVATION B-B
1/4\"/>



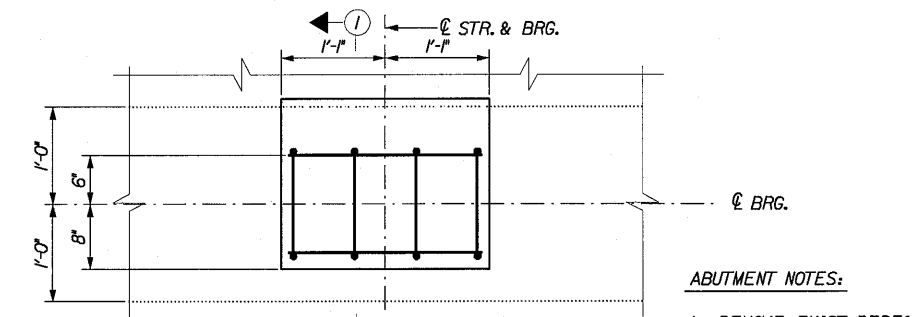
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1/4\"/>



EXISTING PIER ELEVATION
1/4\"/>

PIER NOTES

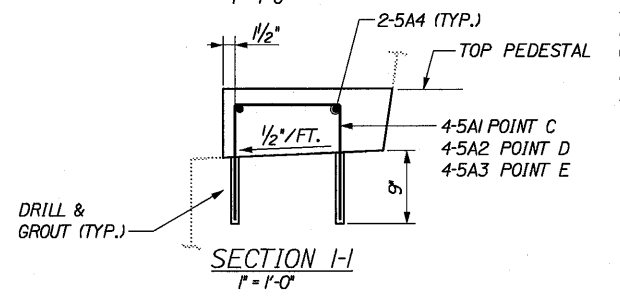
1. REMOVE EXISTING LEVELING PAD. PROVIDE PROPOSED LEVELING PAD.
2. FINAL PIER BEARING PAD HEIGHTS SHALL BE DETERMINED BY THE RESIDENT IN THE FIELD BASED ON THE STEEL BEARING DIMENSIONS AND FINAL DECK AND PIER CANTILEVER ELEVATIONS. PIER BEARING PAD REINFORCEMENT IS NOT REQUIRED.
3. MASS CONCRETE CANTILEVER REPLACEMENT NOT SHOWN THIS ELEVATION. SEE SHEET CS-S17 FOR DETAILS.



PROPOSED BEARING PEDESTAL PLAN
1\"/>

ABUTMENT NOTES:

1. REMOVE EXIST. PEDES. PROVIDE PROPOSED F
2. FINAL BEARING PAD H. SHALL BE DETERMINE. ENGINEER IN THE FIL ON THE ELASTOMERIC DIMENSIONS AND FINA AND BACKWALL ELEVAI



SECTION I-I
1\"/>

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No.	Revision	By	Date

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THE GOLD STAR
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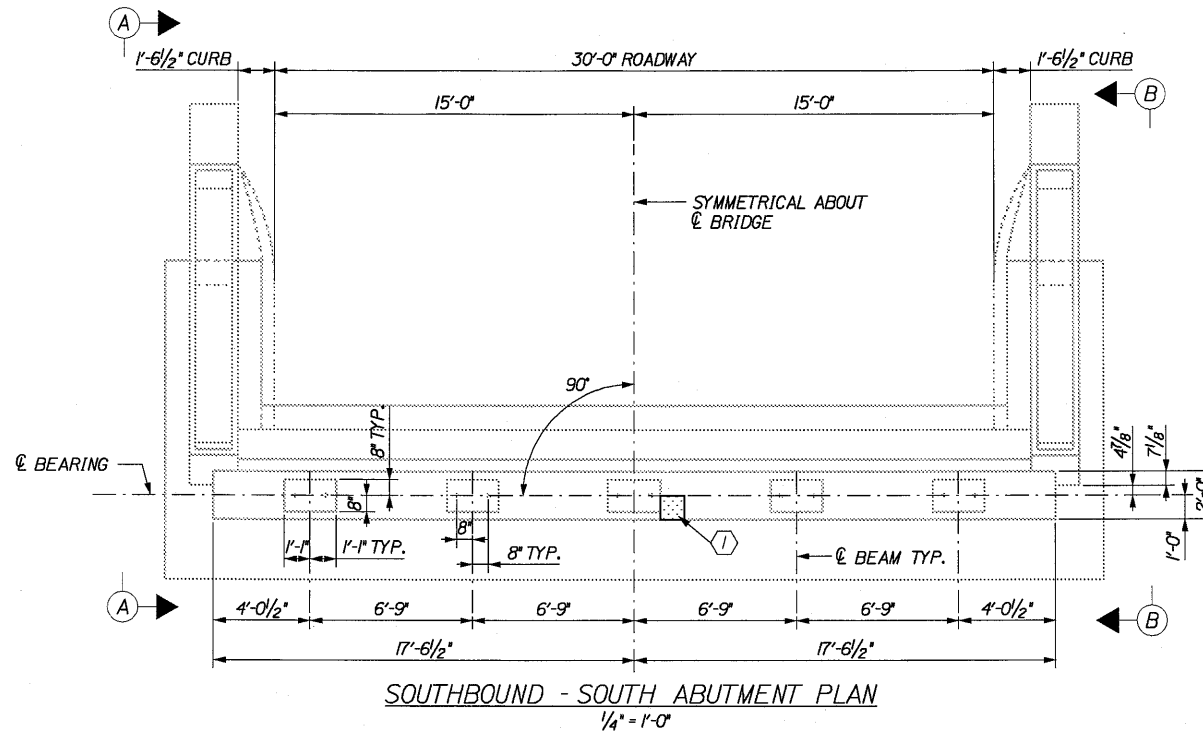
COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
ABUTMENT AND WINGWALL REP;
SHEET 1 OF 5

CONTRACT: 2006.03

SHEET NUMB

Date: 3/28/2006

Filename: ... \CS-S19_Abut_WingWalls2.dgn



LEGEND:

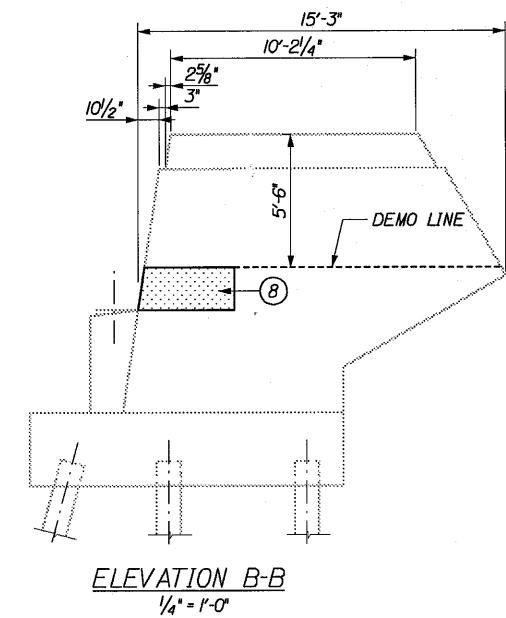
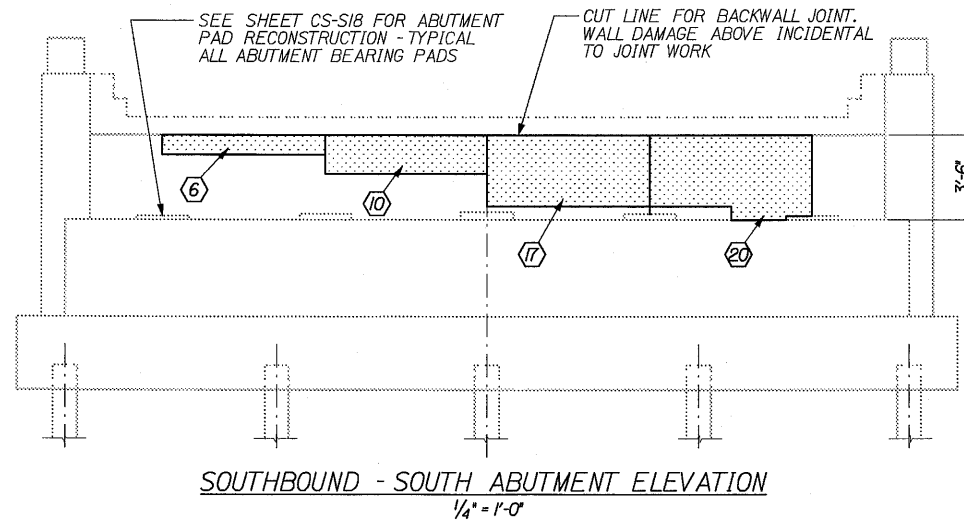
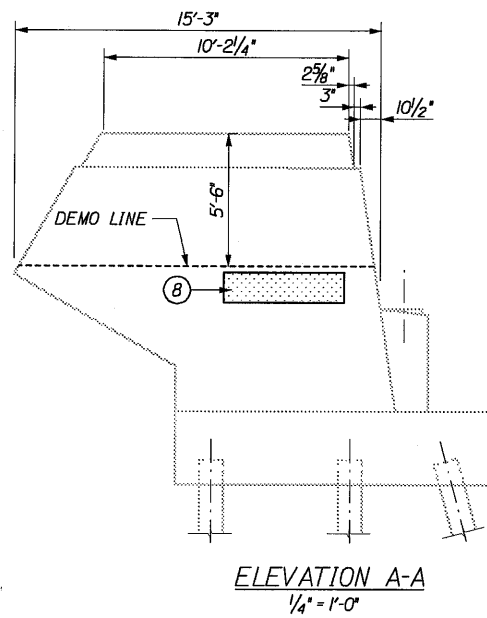
- (13) INDICATES APPROXIMATE ABUTMENT WALL AREA AND SQUARE FEET OF REPAIR.
- (13) INDICATES APPROXIMATE WINGWALL REPAIR AREA AND SQUARE FEET OF REPAIR.
- [Shaded Box] AREA OF REPAIR

NOTE:

- 1.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE SHEET CS-S17).
- 2.) ALL EXPOSED CONCRETE (BACKWALLS, BEARINGS, BEARINGS AND WINGWALLS) SHALL BE COATED WITH PIGMENTED CONCRETE PROTECTIVE COATING AFTER THE CONCRETE REPAIRS AND ABUTMENT MODIFICATIONS ARE COMPLETED.
- 3.) PRIOR TO THE START OF THE CONCRETE REPAIRS, THE RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOULD THE REPAIR AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPTH CONCRETE REPAIR (INCLUDING ADDITIONAL 10%):

SOUTHBOUND SOUTH ABUTMENT = (60) (18)



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**MAINE
TURNPIKE**

THE GOLD STAR
MEMORIAL HIGHWAY

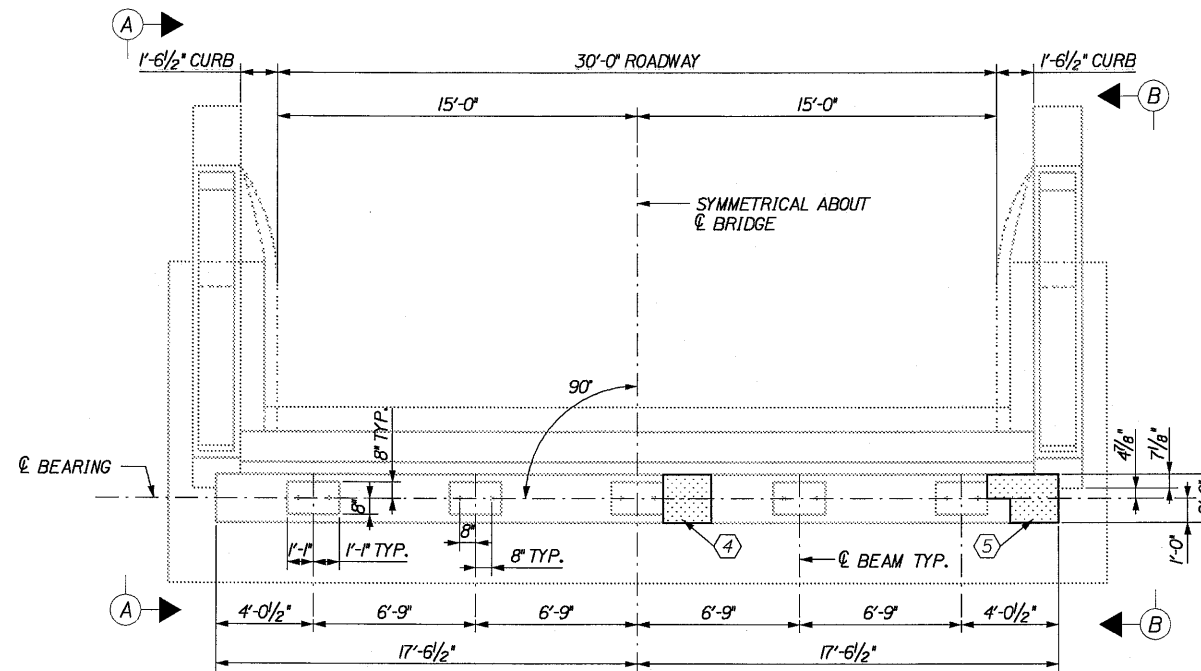
COBBOSSEECONTEE STREAM
BRIDGE REHABILITATION
ABUTMENT AND WINGWALL REPAIR
SHEET 2 OF 5

SHEET NUMBER

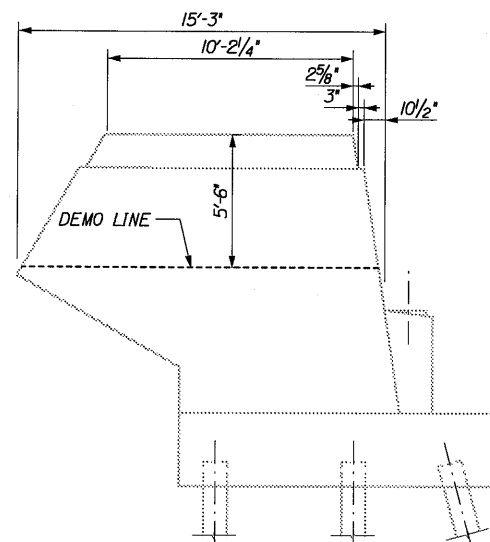
CONTRACT: 2006.03

Date: 3/28/2006

Filename: ... \CS-S20_Abut_WingWalls3.dgn

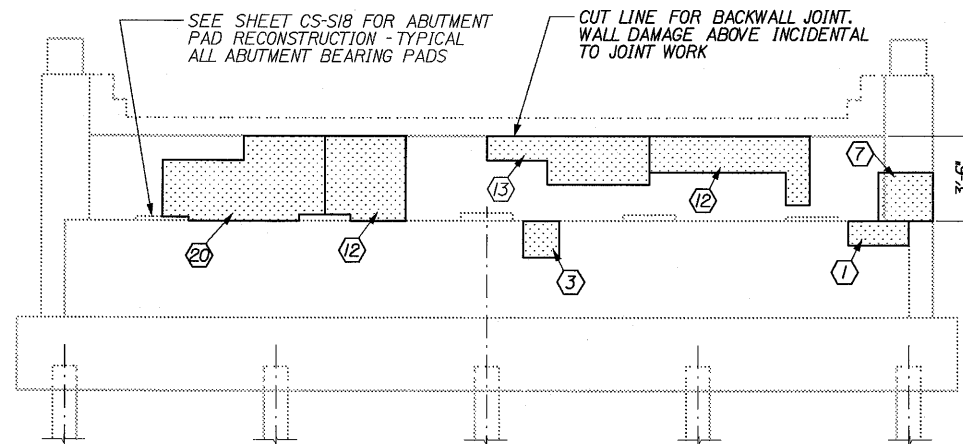


NORTHBOUND - SOUTH ABUTMENT PLAN
1/4" = 1'-0"

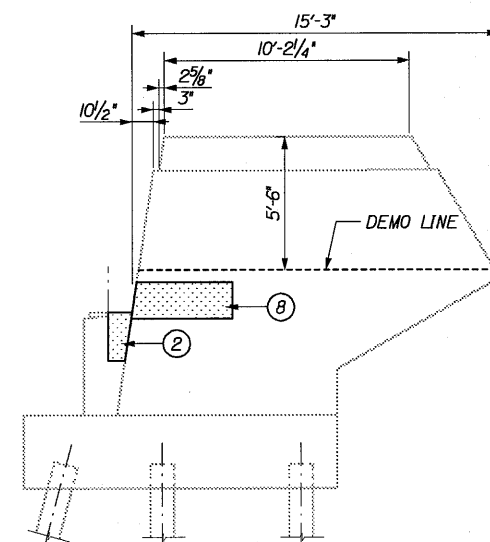


ELEVATION A-A
1/4" = 1'-0"

NO DAMAGE ON END POST/WINGWALLS BELOW DEMO LINE



NORTHBOUND - SOUTH ABUTMENT ELEVATION
1/4" = 1'-0"



ELEVATION B-B
1/4" = 1'-0"

LEGEND:

- ⑥ INDICATES APPROXIMATE ABUTMENT WALL AREA AND SQUARE FEET OF REPAIR.
- ⑬ INDICATES APPROXIMATE WINGWALL REPAIR AREA AND SQUARE FEET OF REPAIR.
- ▨ AREA OF REPAIR

NOTE:

- 1.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE N ON SHEET CS-S17).
- 2.) ALL EXPOSED CONCRETE (BACKWALLS, BEARINGS, BREA: WALLS AND WINGWALLS) SHALL BE COATED WITH PIGMI CONCRETE PROTECTIVE COATING AFTER THE CONCRET REPAIRS AND ABUTMENT MODIFICATIONS ARE COMPLE
- 3.) PRIOR TO THE START OF THE CONCRETE REPAIRS T RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOU THE REPAIR AREA LIMITS APPEAR TO CHANGE DURJ DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHA AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPT (INCLUDING ADDITIONAL 10%):

NORTHBOUND SOUTH ABUTMENT = ⑥ ⑬ ⑪

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THE GOLD STAR
MEMORIAL HIGHWAY

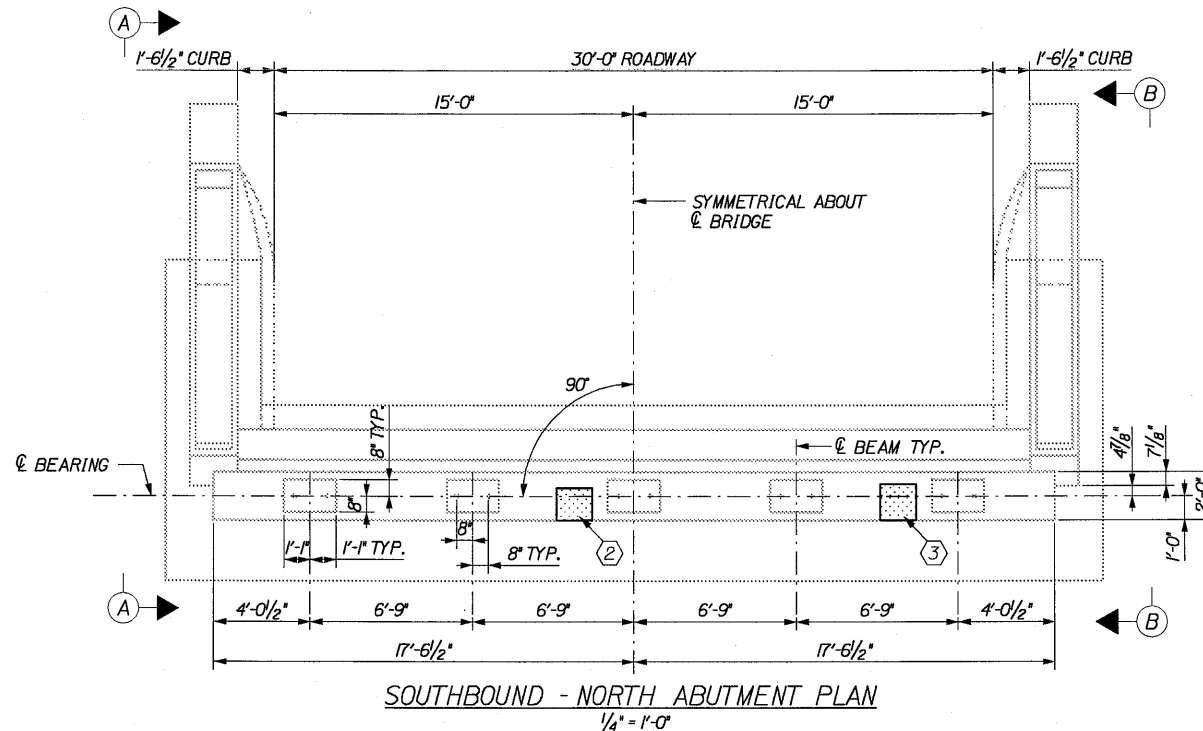
COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
ABUTMENT AND WINGWALL REPA
SHEET 3 OF 5

SHEET NUMBER

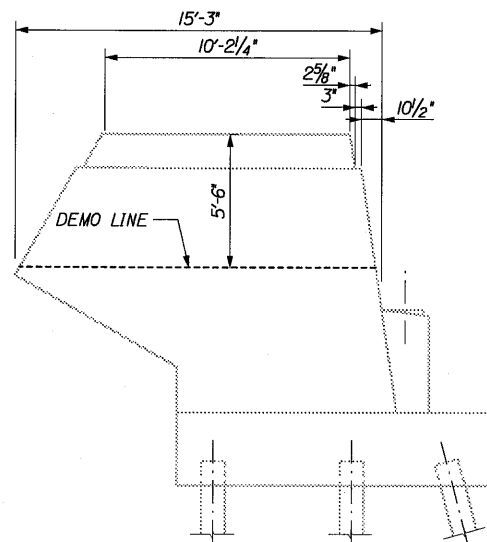
CONTRACT: 2006.03

Date: 3/28/2006

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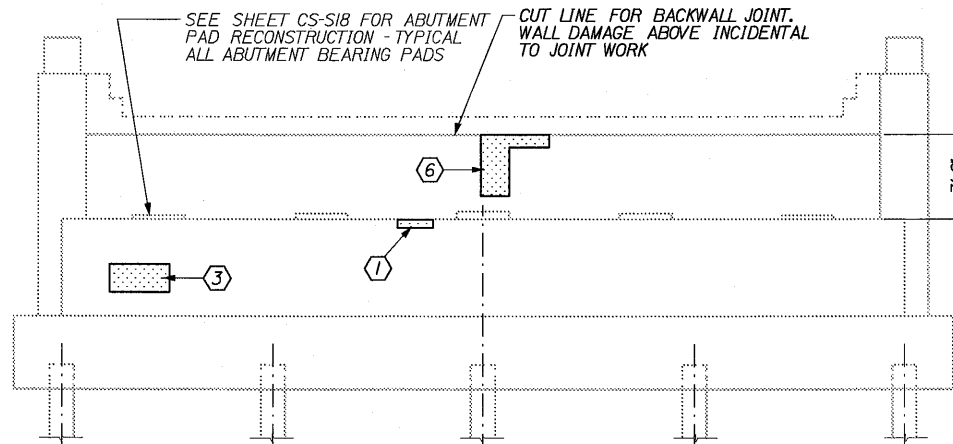


SOUTHBOUND - NORTH ABUTMENT PLAN
1/4" = 1'-0"

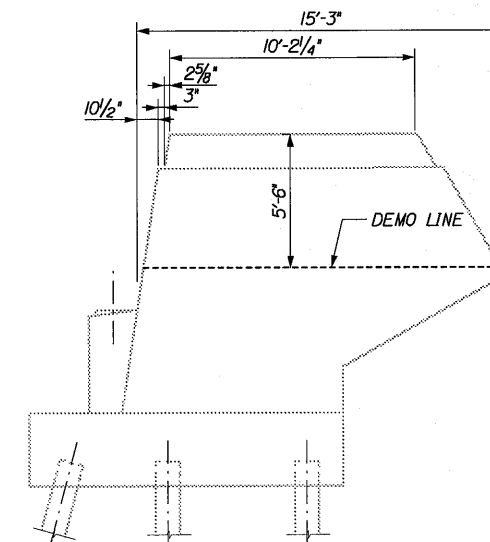


ELEVATION A-A
1/4" = 1'-0"

NO DAMAGE ON END POST/WINGWALLS BELOW DEMO LINE



SOUTHBOUND - NORTH ABUTMENT ELEVATION
1/4" = 1'-0"



ELEVATION B-B
1/4" = 1'-0"

NO DAMAGE ON END POST/WINGWALLS BELOW DEMO LINE

LEGEND:

- (17) INDICATES APPROXIMATE ABUTMENT WALL AREA AND SQUARE FEET OF REPAIR.
- (13) INDICATES APPROXIMATE WINGWALL REPAIR AREA AND SQUARE FEET OF REPAIR.
- [Hatched Box] AREA OF REPAIR

NOTE:

- 1.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE 1 ON SHEET CS-S17).
- 2.) ALL EXPOSED CONCRETE (BACKWALLS, BEARINGS, BREA WALLS AND WINGWALLS) SHALL BE COATED WITH PIGM CONCRETE PROTECTIVE COATING AFTER THE CONCRE REPAIRS AND ABUTMENT MODIFICATIONS ARE COMPL.
- 3.) PRIOR TO THE START OF THE CONCRETE REPAIRS, RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOULD THE REPAIR AREA LIMITS APPEAR TO CHANGE DURING DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.

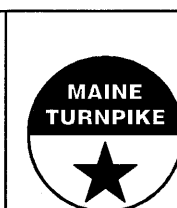
TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPTH (INCLUDING ADDITIONAL 10%):

SOUTHBOUND
NORTH ABUTMENT = (17) (13)

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**THE GOLD STAR
MEMORIAL HIGHWAY**

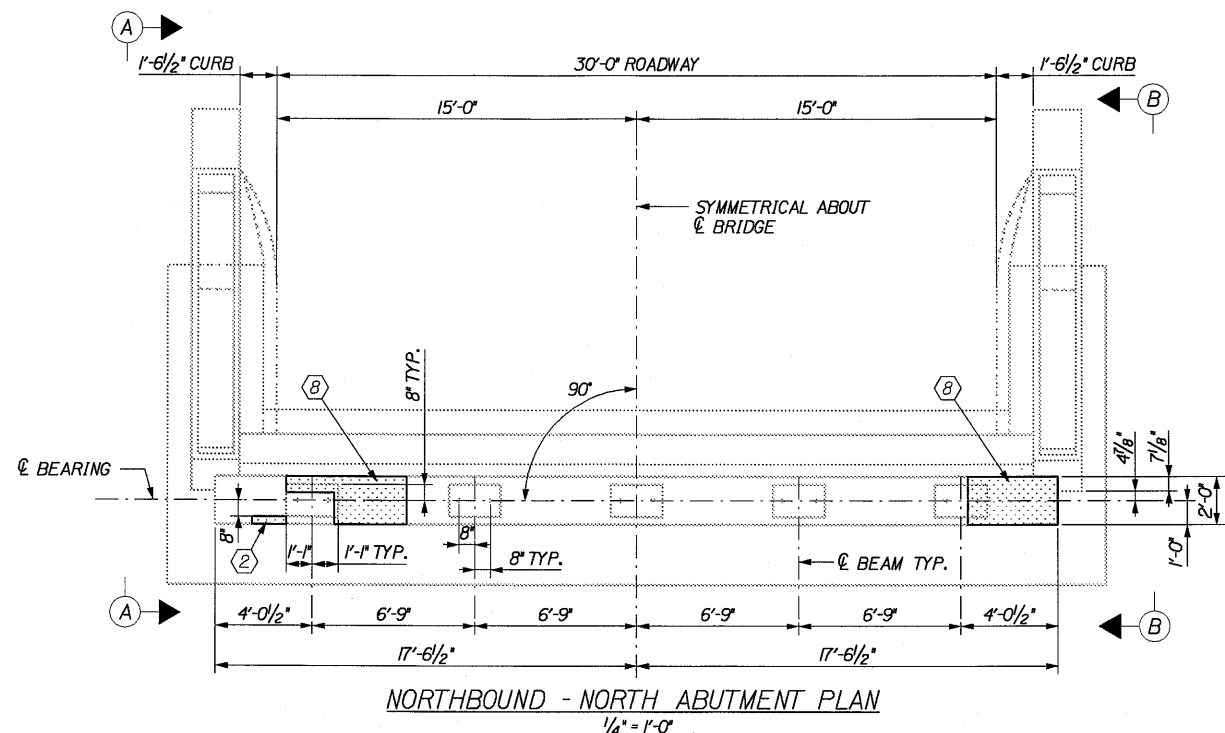
COBBOSEECONTEE STREAM
BRIDGE REHABILITATION
ABUTMENT AND WINGWALL REP,
SHEET 4 OF 5

SHEET NUMBER

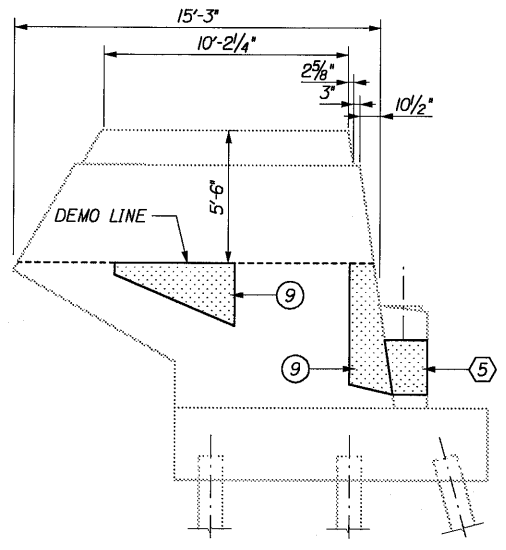
CONTRACT: 2006.03

Date: 3/28/2006

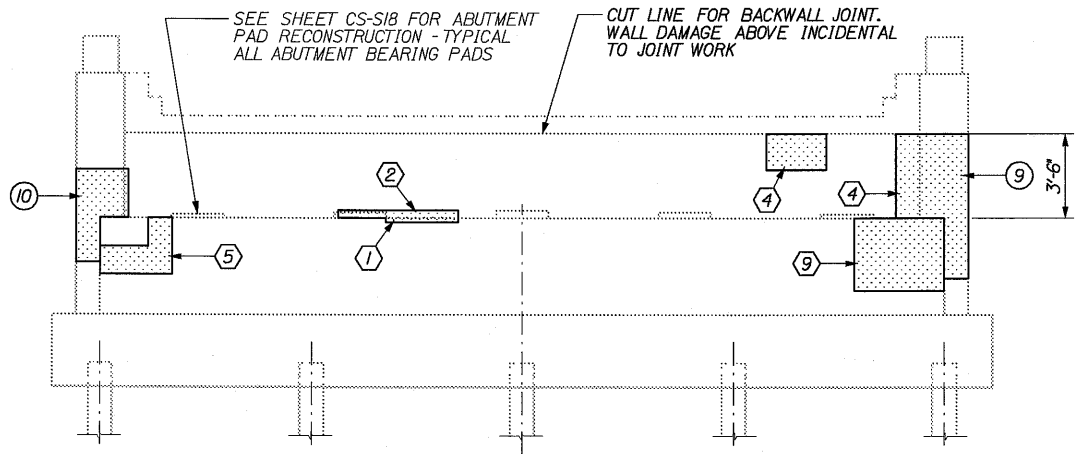
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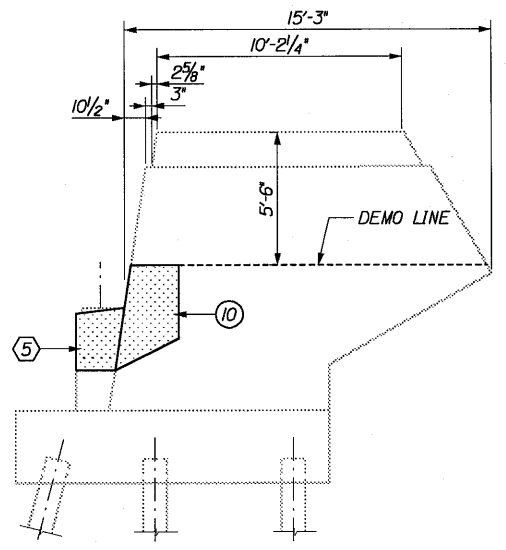
NORTHBOUND - NORTH ABUTMENT PLAN
1/4" = 1'-0"



ELEVATION A-A
1/4" = 1'-0"



NORTHBOUND - NORTH ABUTMENT ELEVATION
1/4" = 1'-0"



ELEVATION B-B
1/4" = 1'-0"

LEGEND:

- (13) INDICATES APPROXIMATE ABUTMENT WALL F AREA AND SQUARE FEET OF REPAIR.
- (13) INDICATES APPROXIMATE WINGWALL REPAIR AREA AND SQUARE FEET OF REPAIR.
- [Hatched Box] AREA OF REPAIR

NOTE:

- 1.) LOCATION OF SHADED AREA INDICATES APPROXIMATE AREA OF PARTIAL DEPTH CONCRETE REPAIR. (SEE NC ON SHEET CS-S17).
- 2.) ALL EXPOSED CONCRETE (BACKWALLS, BEARINGS, BRES WALLS AND WINGWALLS) SHALL BE COATED WITH PIGME CONCRETE PROTECTIVE COATING AFTER THE CONCRET REPAIRS AND ABUTMENT MODIFICATIONS ARE COMPLET
- 3.) PRIOR TO THE START OF THE CONCRETE REPAIRS TH RESIDENT AND THE CONTRACTOR SHALL SOUND THE CONCRETE AND AGREE ON THE REPAIR LIMITS. SHOUL THE REPAIR AREA LIMITS APPEAR TO CHANGE DURIN DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHAL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE DEMOLITION.

TOTAL ESTIMATED AREA (SQUARE FEET) OF PARTIAL DEPT (INCLUDING ADDITIONAL 10%):

NORTHBOUND
SOUTH ABUTMENT = (59) (52)

Scale:			
No.	Revision	By	Date

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**THE GOLD STAR
MEMORIAL HIGHWAY**

COBBOSSECONTEE STREAM
BRIDGE REHABILITATION
ABUTMENT AND WINGWALL REPA
SHEET 5 OF 5

CONTRACT: 2006.03

SHEET NUMBER