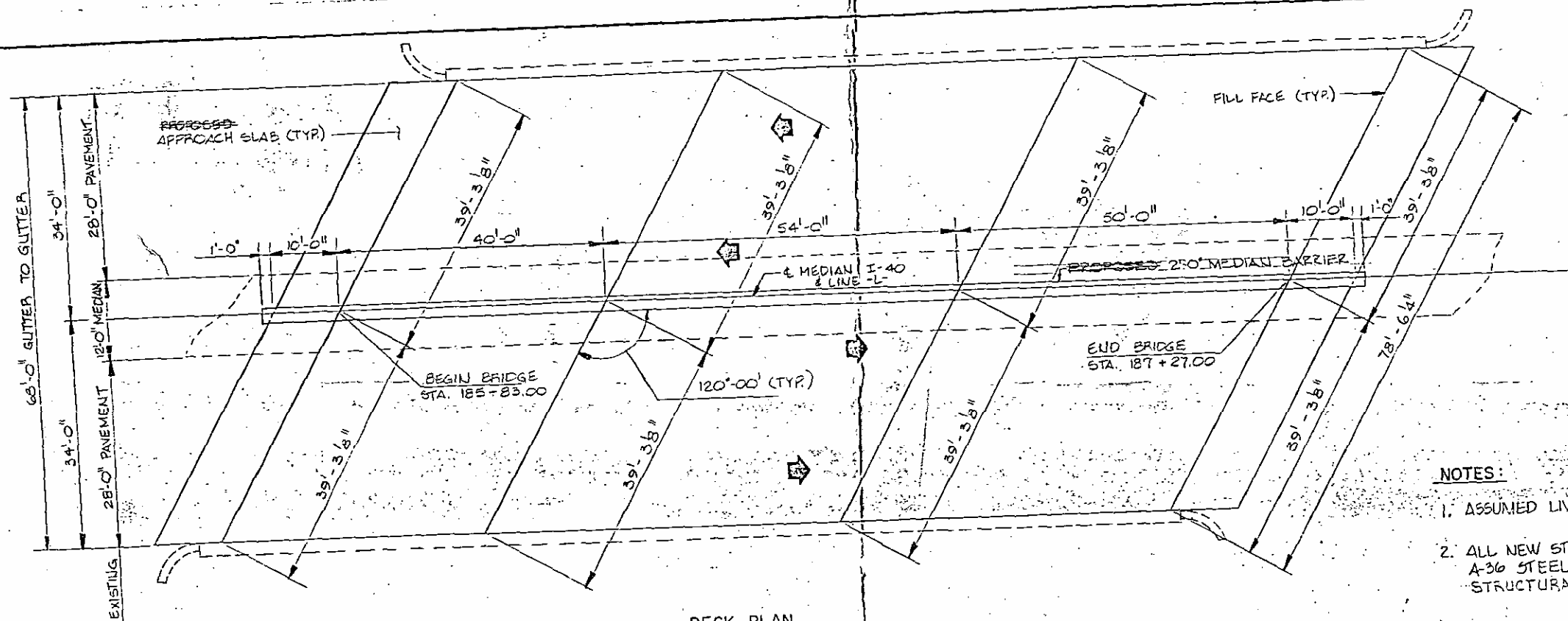
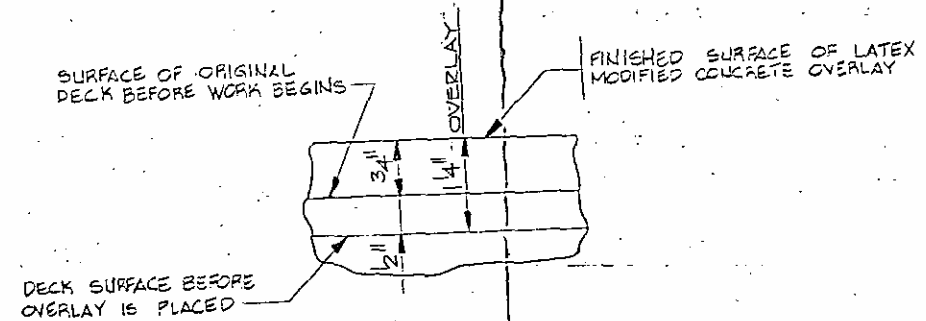




DECK PLAN
(SCALE: 3/32" = 1'-0")

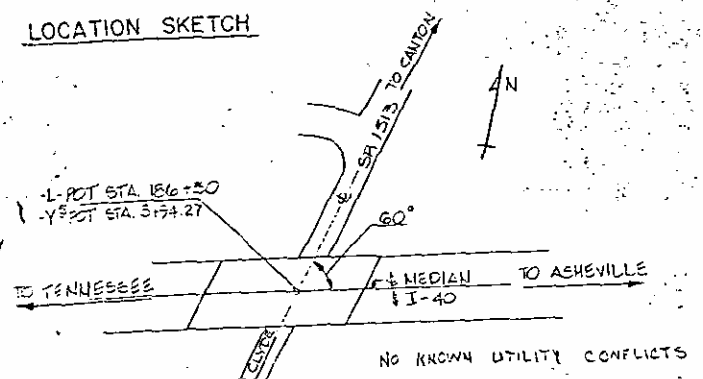


DETAIL FOR LATEX MODIFIED
CONCRETE OVERLAY
(SCALE: 3/4" = 1")

I hereby certify that this structure was
built according to plans except as noted
herein.
R.W. Havel
Resident Engineer

- NOTES:
1. ASSUMED LIVE LOAD = HS-20-44 OR ALTERNATE LOADING.
 2. ALL NEW STRUCTURAL STEEL COVER PLATES ~~SHALL BE~~ A-36 STEEL. SEE SPECIAL PROVISIONS FOR "PAINTING OF STRUCTURAL STEEL COVER PLATES."
 3. QUANTITIES SHOWN FOR CLASS II AND CLASS III SURFACE PREPARATION ARE ESTIMATED. THE QUANTITIES TO BE PAID FOR ~~WILL BE~~ THE ACTUAL NUMBER OF SQUARE YARDS OF CLASS II OR CLASS III SURFACE PREPARATION COMPUTED BY THE ENGINEER FROM MEASUREMENT OF THE AREAS THAT ARE PREPARED TO RECEIVE THE OVERLAY.
 4. SEE SPECIAL PROVISIONS FOR CLASS I, II, AND III SURFACE PREPARATION.
 5. SEE SPECIAL PROVISIONS FOR LATEX MODIFIED CONCRETE.
 6. FOR EXPANSION AND COMPRESSION JOINT SEAL DETAILS AND MEDIAN BARRIER DETAILS, SEE DWG. 46.
 7. FOR APPROACH SLAB DETAILS, SEE DWG. 112.
 8. FOR LOCATION OF COMPRESSION AND EXPANSION JOINT SEALS, SEE DWG. 46.

LOCATION SKETCH



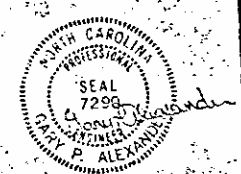
TOTAL BILL OF MATERIALS										
	CLASS I SURFACE PREPARATION SQ. YDS.	CLASS II SURFACE PREPARATION SQ. YDS.	CLASS III SURFACE PREPARATION SQ. YDS.	PLACING AND FINISHING LATEX MOD. CONC. OVERLAY SQ. YDS.	LATEX MODIFIED CONCRETE OVERLAY CU. YDS.	BRIDGE APPROACH SLAB L.S.	EXPANSION JOINT SEAL L.S.	S.A. No. 17 COMPRESSION JOINT SEAL L.S.	CONCRETE MEDIAN BARRIER LN. FT.	STRUCTURAL STEEL APPROX. LBS.
DECK REPAIR	1088	3403 69	11400 90	11577 1088	27.85 37.8	---	---	---	106.4	---
TOTAL	1088	3403 69	11400 90	11577 1088	27.85 37.8	L.S.	L.S.	L.S.	106.4	L.S.Q.

PROJECT NO. 81940205
HAYWOOD-BUNCOMBE COUNTY
STATION: 186+50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING FOR DECK REPAIR OF
NO. 236 OVER SR 1513

REVISIONS					DATE	BY	NO.	NO.	DATE	BY	NO.	NO.	DATE	BY	NO.
NO.	BY	DATE	NO.	BY											
1			2												
2			3												



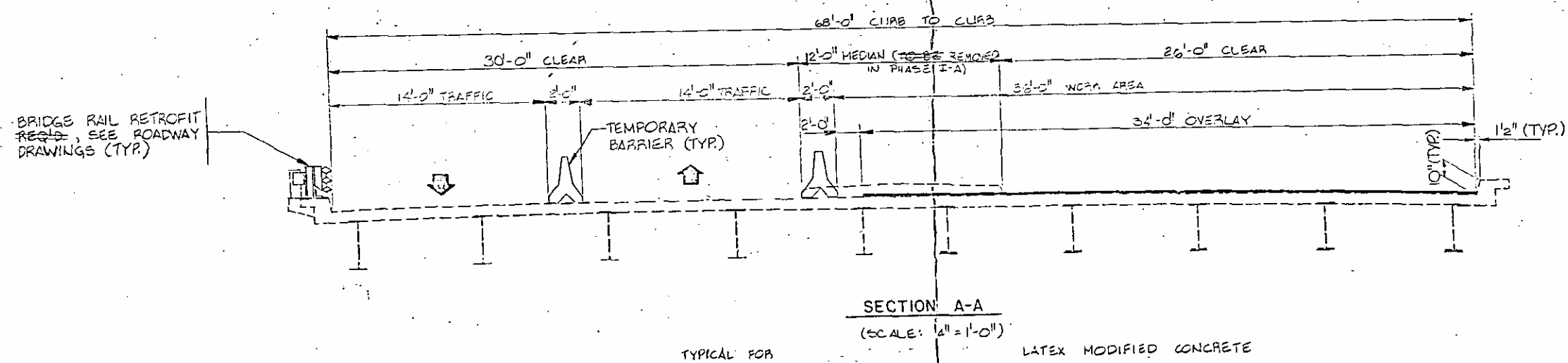
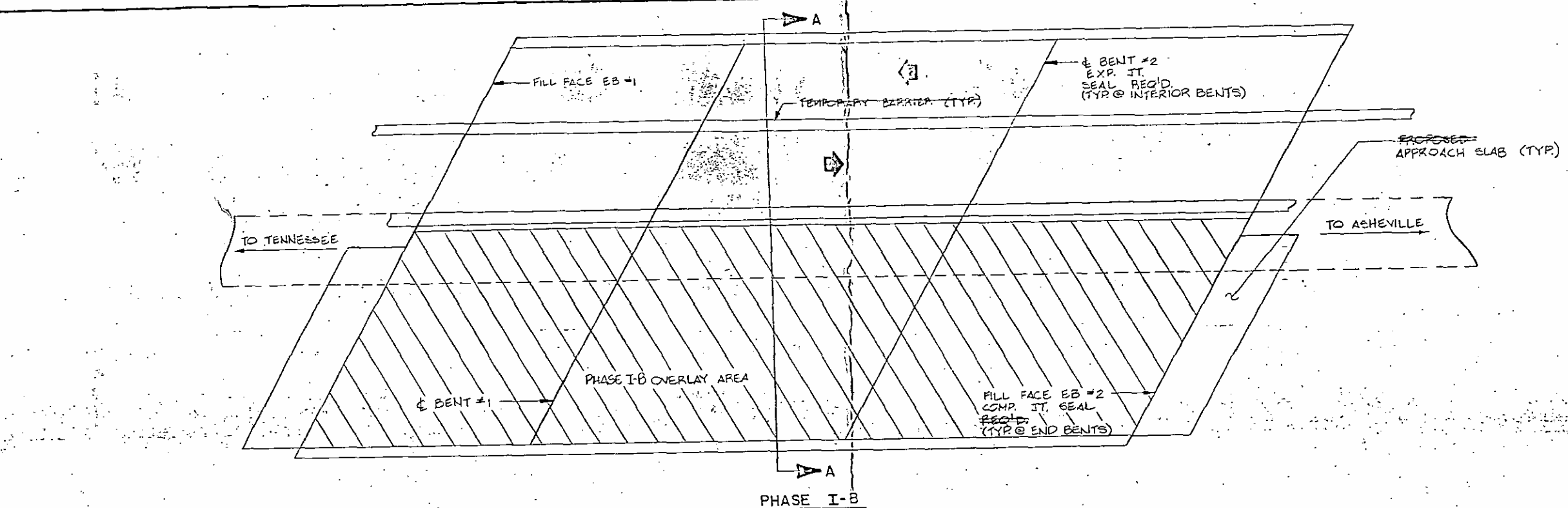
HARLAND EARTHQUAKE & ASSOCIATES, INC.
4900 WATERS EDGE DR., SUITE 150
RALEIGH, NORTH CAROLINA 27606

DWG. NO. 8/47

SPECIAL
DESIGNED BY: GPA
DRAWN BY: LAS
CHECKED BY: GPA
DATE: 4-84
DATE: 5-84
DATE: 5-84

4

1984
SHEET NO. 210
5-7
TOTAL SHEETS 46



PROJECT NO. 8.1940205
HAYWOOD-BUNCOMBE COUNTY
STATION: 186+50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

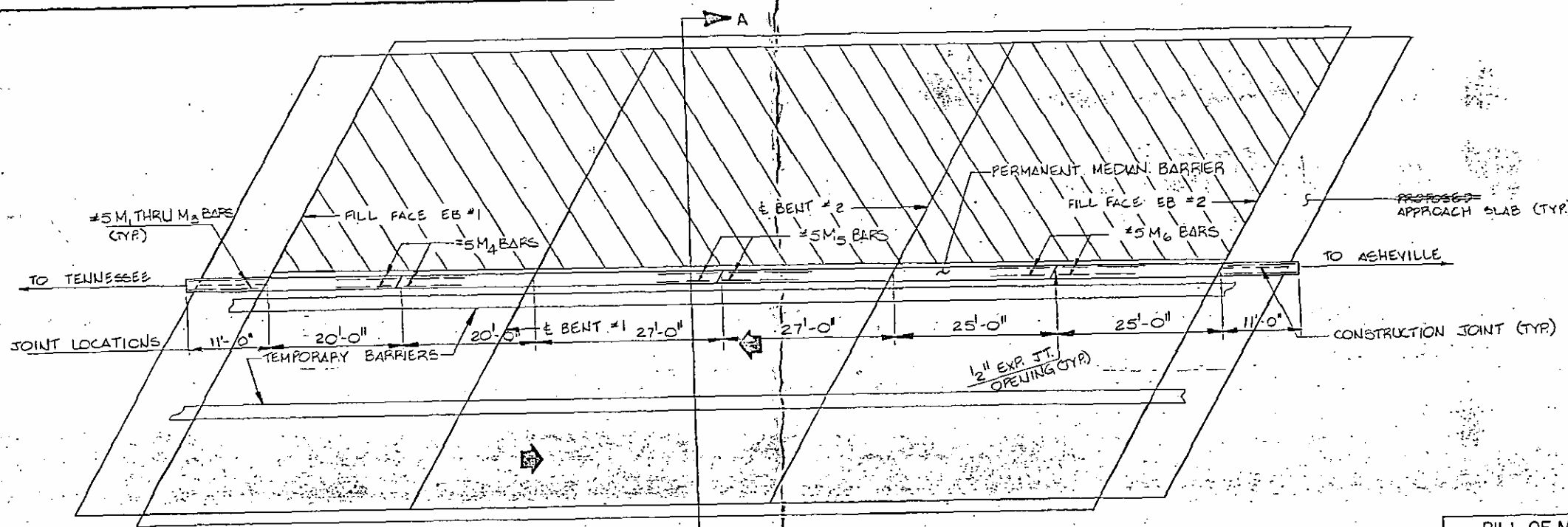
DECK REPAIR FOR I-40
OVER SR 1513
PHASE I-B

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

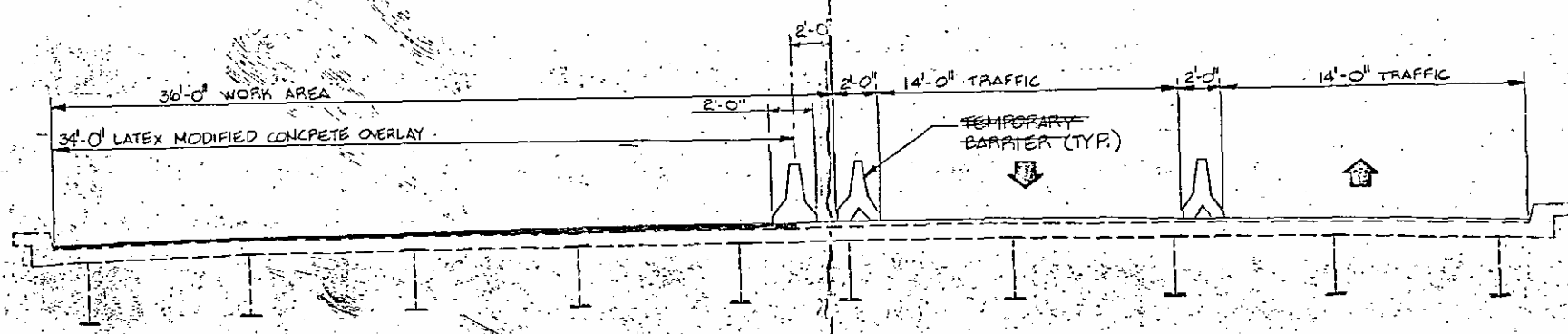
REVISED
DWG NO. 9/47

SHEET NO.
211
TOTAL SHEETS
46

SPECIAL	DESIGNED BY	LAS	DATE	4-84
	DRAWN BY	LAS	DATE	4-84
	TRACED BY		DATE	
	CHECKED BY	GPA	DATE	5-84



PHASE I-C



SECTION A-A
(SCALE: 1/4" = 1'-0")
TYPICAL FOR LATEX MODIFIED CONCRETE

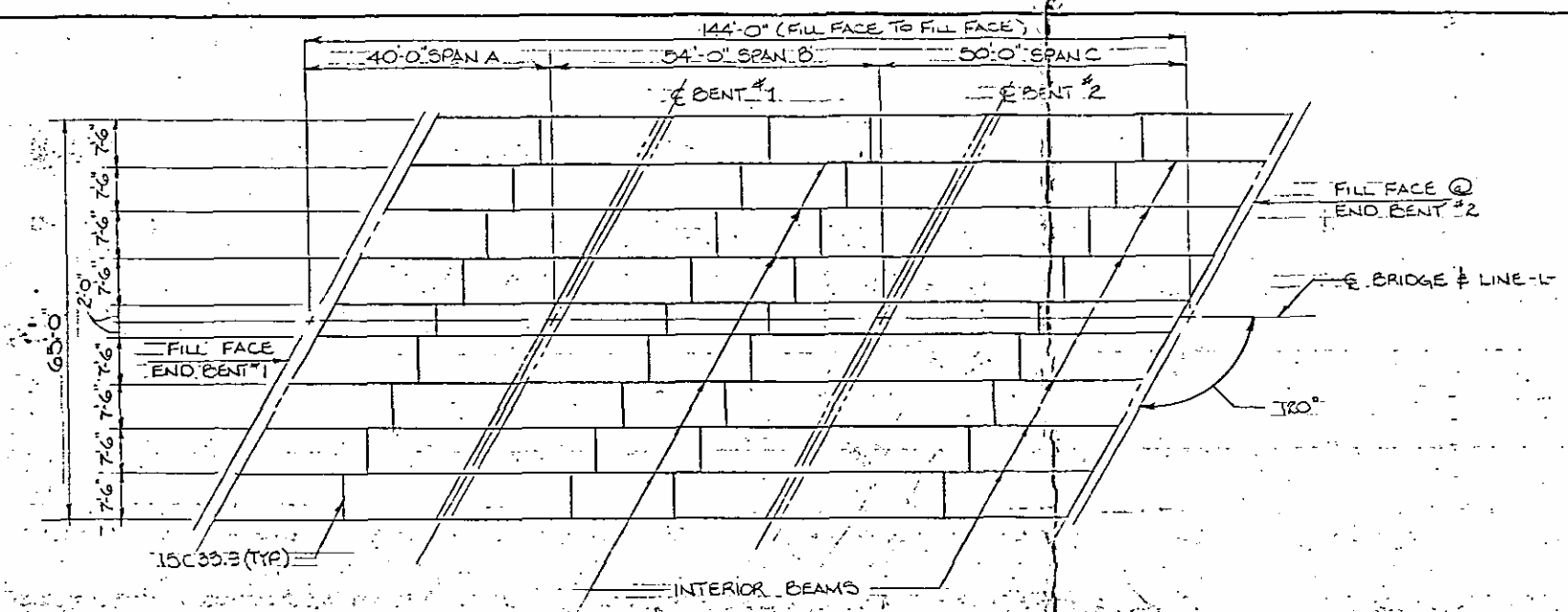
BILL OF MATERIAL FOR MEDIAN BARRIER					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
M ₁	4	5	STR.	10'-8"	45
M ₂	8	1	↓	10'-5"	87
M ₃	4	1	↓	10'-0"	42
M ₄	16	↓	↓	10'-8"	328
M ₅	16	↓	↓	26'-8"	445
M ₆	16	5	STR.	24'-8"	412
S ₂₁	166	5	1	5'-4"	923
S ₂₂	40	5	2	1'-10"	76
REINFORCING STEEL				LB'S.	2353
CLASS AA CONCRETE				CU. YDS.	17.0
5/8" φ BOLT ASSEMBLIES				NUMBER	288

NOTE: SEE DWG. NO. 46 FOR CONCRETE MEDIAN BARRIER SECTIONS AND BAR BENDS.

PROJECT NO. 8.1940203
HAYWOOD-BUNCOMBE COUNTY
STATION: 186 + 50 -L-

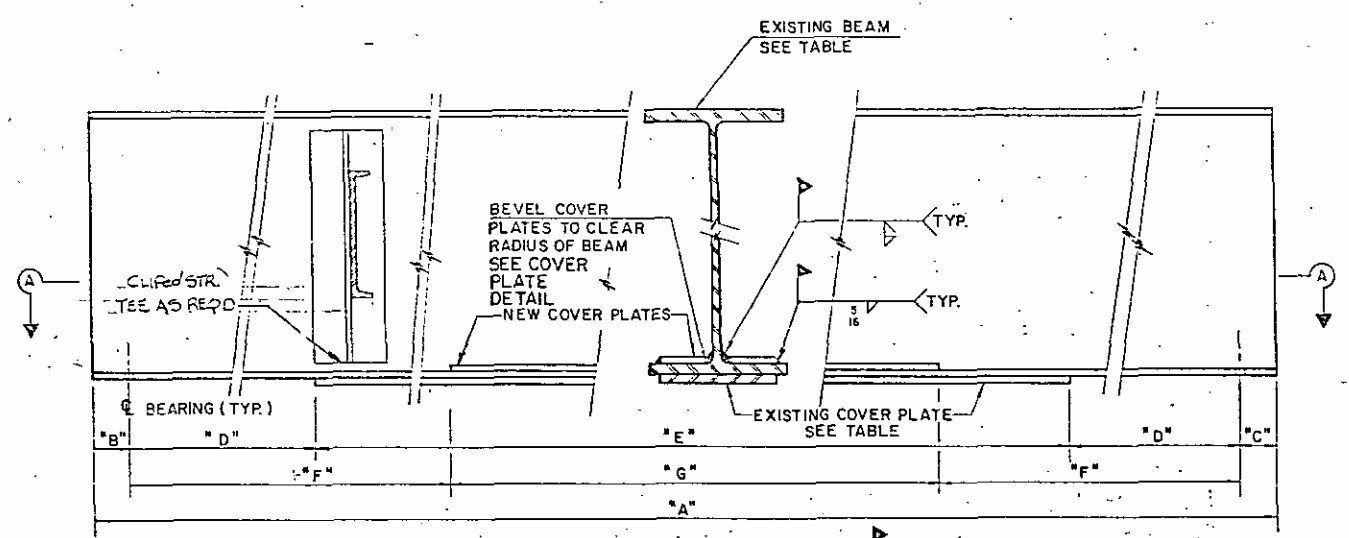
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR FOR I-40 OVER SR 1513 PHASE I-C					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		
DWG. NO. 10/47					46

SPECIAL	DESIGNED BY	LAS	DATE	4-84
	DRAWN BY	LAS	DATE	4-84
	CHECKED BY	GPA	DATE	5-84



PLAN

SCALE: 1"=30'-0"
TOTAL WEIGHT OF STRUCTURAL STEEL
COVER PLATES IS 3690 LBS.



ELEVATION

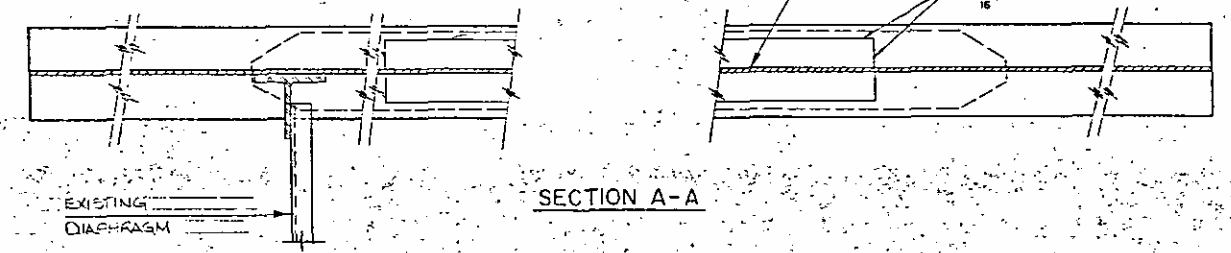
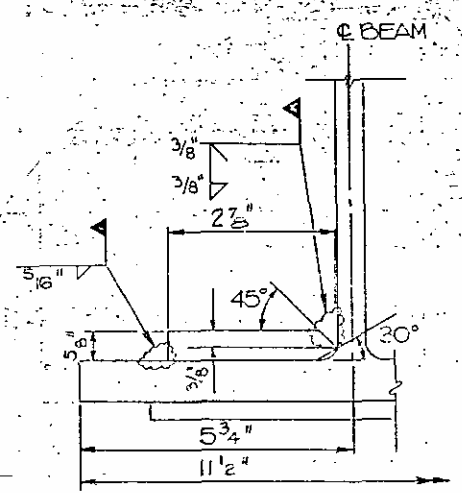


TABLE OF BEAM AND COVER PLATE DIMENSIONS

	SPAN A		SPAN B		SPAN C	
	INT.	EXT.	INT.	EXT.	INT.	EXT.
EXISTING BEAM			30" W 130		30" W 130	
EXISTING COVER PLATE			5/8" X 10'		1/2" X 6'	
NEW COVER PLATE			2-5/8" X 27'		2-5/8" X 27'	
"A"			35'-0"		49'-3"	
"B"			4'-		4'-	
"C"			4'-		10'-6"	
"D"			11'-6"		13'-9 3/8"	
"E"			30'-0"		20'-6"	
"F"			14'-7 1/2"		10'-9 3/8"	
"G"			23'-9"		26'-6"	



COVER PLATE DETAIL
SCALE: 1/2" = 1"

PROJECT NO. 8.1940203
HAYWOOD-BUNCOMBE COUNTY
STATION: 186+50.0-L

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

COVER PLATE DETAILS
BRIDGE NO. 236

REVISIONS						1984
NO.	BY	DATE	NO.	BY	DATE	213
1			2			5-10
3			4			AG

DWG. NO. 11/47

SPECIAL
DESIGNED BY: G. PALEXANDER DATE: JUNE 1984
DRAWN BY: L. D. THOMAS DATE: JUNE 1984
TRACKED BY: M. BRIDGEMORTH DATE: JULY 84
CHECKED BY: G. PALEXANDER DATE: JULY 84

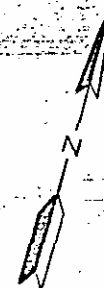


Diagram illustrating the plan view of a bridge approach slab and bracket. The diagram shows the existing approach slab, the existing approach curb, and the existing fill face. A proposed approach slab is indicated by a dashed line. The diagram is labeled with 'PROPOSED APPROACH SLAB', 'EXISTING APPROACH SLAB BRACKET', 'EXIST. FILL FACE', 'EXIST. APPROACH CURB', and 'PLAN'.

APPROACH SLAB

JOINT SEALER

APPROACH CURB

30°

APPROACH SLAB BRACKET

1/2" EXP. JT. MATERIAL

2 LAYERS OF 30LB. ROOFING FELT TO PREVENT BOND

SECTION K-K

DETAIL OF EXPANSION JOINT MATERIAL
BETWEEN APPROACH SLAB & APPROACH CURB

HIGH BEAM BOLSTER UPPER (RSU)
 @ 3'-0" CTRS. ACROSS SLAB

#6 #2 BARS @ 6' CTRS.
 TOP & BOTTOM

#4 #1 BARS @ 15" MAX. CTRS.
 TOP & BOTTOM

SUBDRAIN FINE AGGREGATE

APPROVED WIRE BAR
 SUPPORTS @ 3'-0" CTRS.
 EACH WAY

1/4" FOR LATEX MODIFIED CONC.

SURFACE BEFORE OVERLAY

ORIGINAL DECK SURFACE

FINISHED DECK SURFACE

SEE DETAIL 'A'

EXIST. SLAB

2 LAYERS OF 30 LB.
 ROOFING FELT TO
 PREVENT BOND

EXIST. SUBST.

4" MIN.
 IMPERV.

6" PERF. C.S.P. SET
 ON 1% MIN. GRADE

1'-0" MIN.

SECTION THRU SLAB

SUBDRAIN FINE AGG.

SUEDRAIN FINE AGGREGATE ~~TO BE~~
CONTINUOUS ALONG FILL FACE OF
END BENT FROM OUTSIDE EDGE TO
OUTSIDE EDGE OF SUPERSTRUCTURE.

PROJECT NO. 8.1940205
HAYWOOD - BUNCOMBE COUNTY
 STATION: 186+50-L

BRIDGE NO. 236

SPECIAL	DESIGNED BY	GPA	DATE	4-4-84
	DRAWN BY	JHO	DATE	4-6-84
	TRACED BY	MB	DATE	4-10-84
	CHECKED BY	GPA	DATE	4-11-84