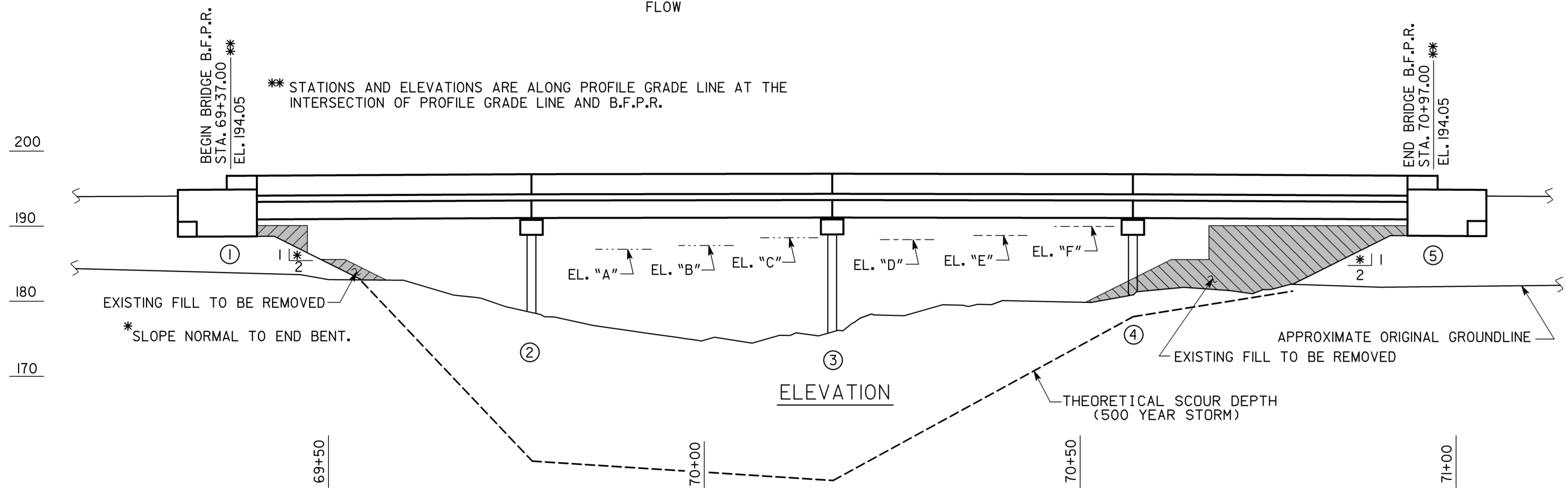


- PROPOSED BRIDGE CONSISTS OF**
- 4 - 40'-0" TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
  - 2 - PILE END BENTS ----- SPECIAL DESIGN
  - 3 - PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
  - 24" TYPE I RIP RAP

- NOTES**
- CROSS-SLOPE - THE PROPOSED BRIDGE DECK IS TO BE BUILT ON A NORMAL CROWN OF 2.0%.
  - DECK DRAINS - DECK DRAINS TO BE PLACED AT 10 FT SPACING. ELIMINATE DECK DRAINS OVER ENDFILLS.
  - BEAM ELEVATION - MINIMUM BOTTOM OF BEAM ELEVATION FOR PROPOSED BRIDGE SHALL BE NO LOWER THAN ELEVATION 190.21.
  - BRIDGE REMOVAL - REMOVE EXISTING BRIDGE. REMOVE EXISTING SUBSTRUCTURE AS PER THE SPECIFICATIONS.
  - SR 64 WILL BE CLOSED TO TRAFFIC DURING THE PROPOSED CONSTRUCTION. TRAFFIC TO BE MAINTAINED BY UTILIZING AN OFF-SITE DETOUR.
  - TOWER BENTS - INTERMEDIATE BENTS 2 AND 3 SHALL NOT BE TOWER BENTS.

BM #2 - 8" NAIL IN TELEPHONE POLE, 47.58 FT RT OF STATION 69+22.60, ELEV. = 184.44 FT.



\*\* STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R.

**DESIGN DATA**

- SPECIFICATIONS ----- AASHTO LRFD 5TH EDITION, 2010
- TYPICAL HL-93 LOADING ----- IMPACT ALLOWED
- FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

**TRAFFIC DATA**

- TRAFFIC ----- ADT = 450 (2018)
- ADT = 600 (2038)
- DESIGN SPEED ----- 55 MPH
- TRUCKS ----- 9.5 %
- 24 HR TRUCKS ----- 11 %
- DIRECTIONAL ----- 60 %

**EXISTING UTILITIES**

OVERHEAD UTILITY DOWNSTREAM SIDE OF EXISTING BRIDGE  
BURIED UTILITY DOWNSTREAM SIDE OF EXISTING BRIDGE

BRIDGE ID NO. 173-00064D-002.61E  
BRIDGE SERIAL NO. 173-0013-0  
BRIDGE PI NO. 0007182

BRIDGE NO. 1

GEORGIA  
**DEPARTMENT OF TRANSPORTATION**  
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT  
S.R. 64 OVER FIVE MILE CREEK  
LANIER COUNTY CSBRG-0007-00(182)

SCALE: 1" = 10'-0" (UNLESS NOTED) MARCH 2014

DATE	
REVISIONS	
BY	

DRAWING NO. 35-001  
BRIDGE SHEET 1 OF 1

DESIGNED CRP CHECKED STB REVIEWED DLC/WMD  
DRAWN WMC DESIGN GROUP STB APPROVED BFR

**FLOODSTAGE ELEVATIONS (CREEK FLOODS)**

- "A" - 50 YEAR CREEK FLOODSTAGE ELEV. = 186.92
- "B" - 100 YEAR CREEK FLOODSTAGE ELEV. = 187.43
- "C" - 500 YEAR CREEK FLOODSTAGE ELEV. = 188.47

**FLOODSTAGE ELEVATIONS (ABNORMAL FLOODS)**

- "D" - 50 YEAR ABNORMAL FLOODSTAGE ELEV. = 188.21
- "E" - 100 YEAR ABNORMAL FLOODSTAGE ELEV. = 188.77
- "F" - 500 YEAR ABNORMAL FLOODSTAGE ELEV. = 189.98

**DRAINAGE DATA**

DRAINAGE AREA ----- 36.0 SQ MILES

FLOOD FREQUENCY	CREEK FLOODS			BACKWATER
	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	
50 YEAR	2,650 CFS	2.78 FPS	954 SQ FT	0.35 FT
100 YEAR	3,190 CFS	3.11 FPS	1,025 SQ FT	0.43 FT
500 YEAR	4,440 CFS	3.78 FPS	1,173 SQ FT	0.60 FT

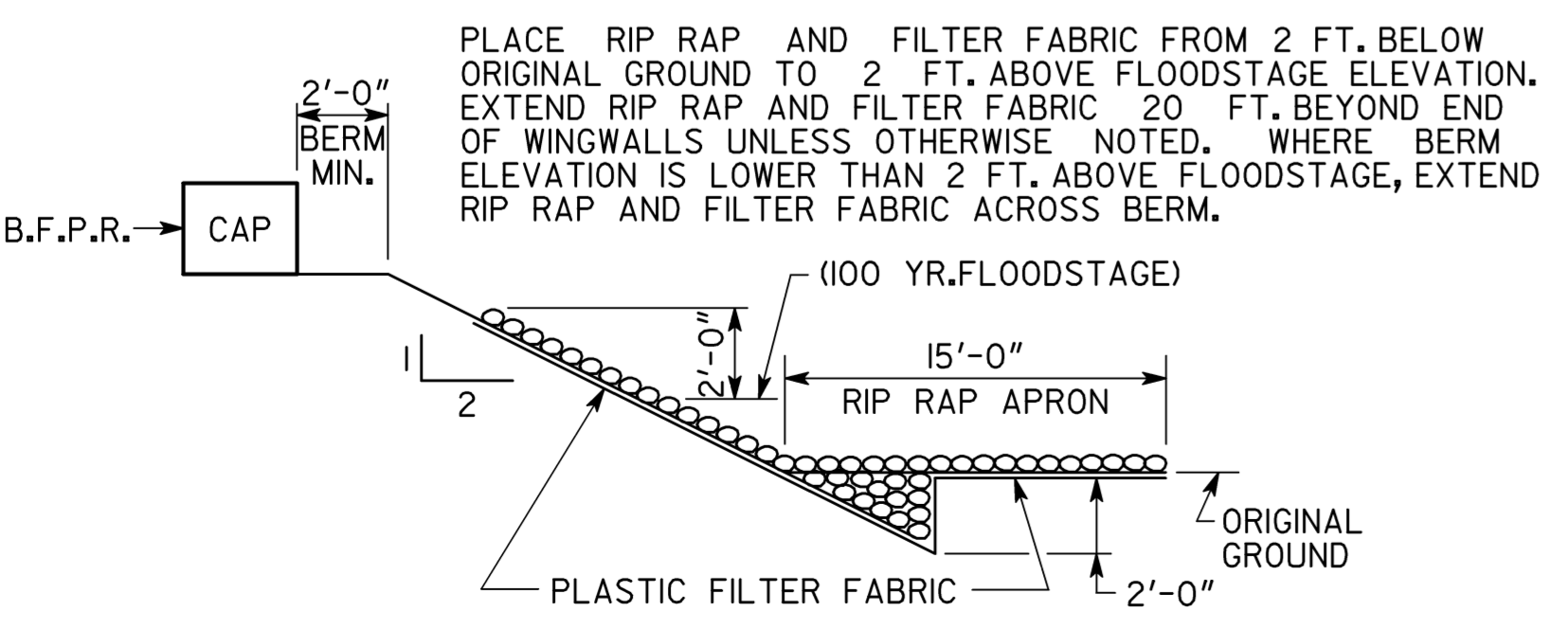
FLOOD FREQUENCY	ABNORMAL FLOODS			BACKWATER
	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	
50 YEAR	2,650 CFS	2.33 FPS	1,137 SQ FT	0.23 FT
100 YEAR	3,190 CFS	2.61 FPS	1,223 SQ FT	0.29 FT
500 YEAR	4,440 CFS	3.15 FPS	1,411 SQ FT	0.39 FT

BENT LOCATION	THEORETICAL SCOUR DEPTHS (FT)					
	100 YEAR STORM			500 YEAR STORM		
	GENERAL	LOCAL	TOTAL	GENERAL	LOCAL	TOTAL
BENTS 2 & 3	9.7	3.2	12.9	16.3	3.5	19.8
BENT 4	0.0	1.8	1.8	0.9	2.0	2.9

THE 500 YEAR SCOUR IN THE CREEK IS 16.3 FT

BERM ELEVATIONS	
END BENT	ELEVATIONS
1 LT	188.28
1 RT	188.14
5 LT	188.14
5 RT	188.28

NOTE: FOR BRIDGE ENDROLL STAKING PURPOSES ONLY.



RIP RAP DETAIL  
NO SCALE

1/4" = 1" WHEN PRINTED FULL SIZE

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3/20/2014