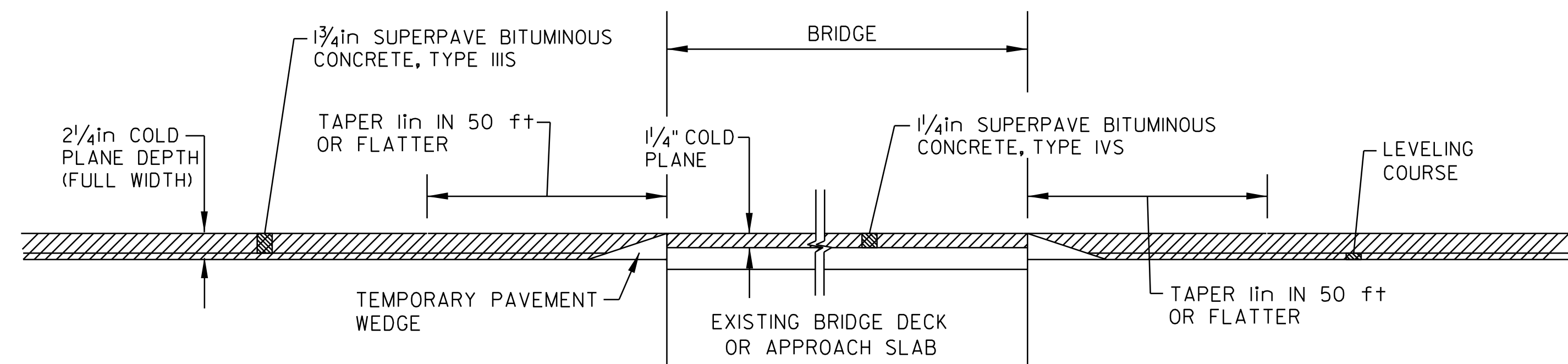


**MAINLINE APPROACH AREA DETAIL  
LOCATION**

**STA 4170+67 - BEGINNING OF PROJECT**



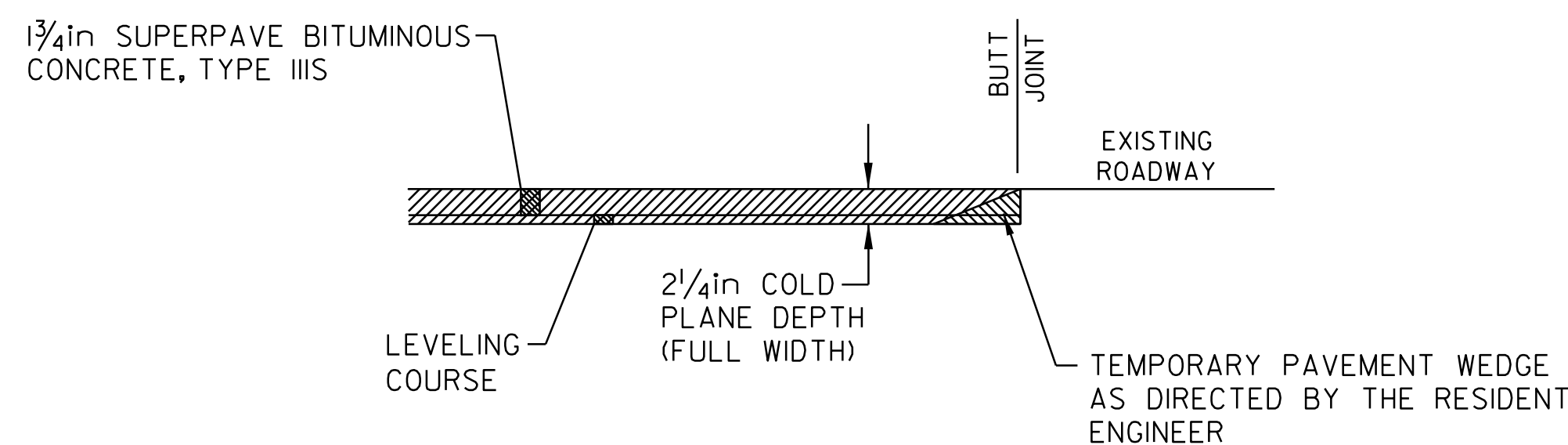
**COLD PLANE DETAIL BRIDGE**

**LOCATION  
NORTHBOUND**

- BRIDGE #61-N, STA 4432+98
- BRIDGE #63-N, STA 4487+52
- BRIDGE #65-N, STA 4604+45
- BRIDGE #66-N, STA 4614+56

NOTE:

THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION. ANY DAMAGE WHICH OCCURS TO MEMBRANES AS A RESULT OF COLD PLANE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE WILL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.

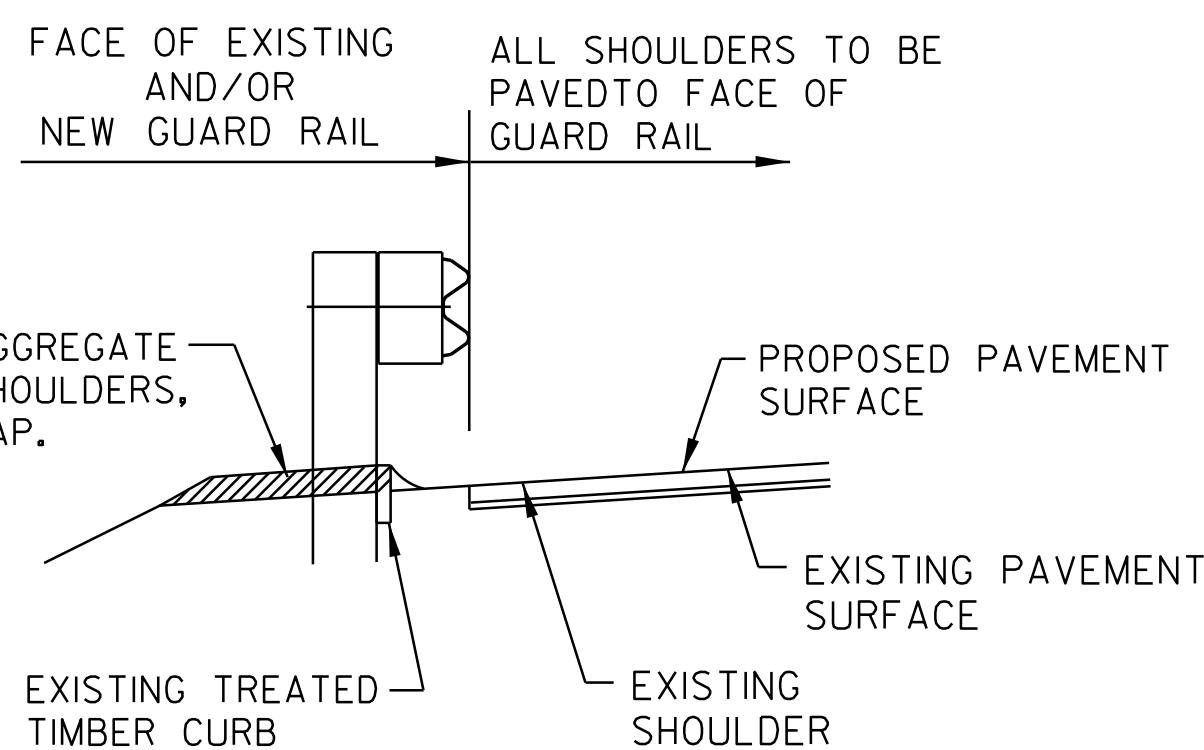


**RAMP APPROACH AREA DETAIL  
LOCATION**

**INTERCHANGE 12 - NORTHBOUND OFF RAMP  
INTERCHANGE 12 - NORTHBOUND ON RAMP**

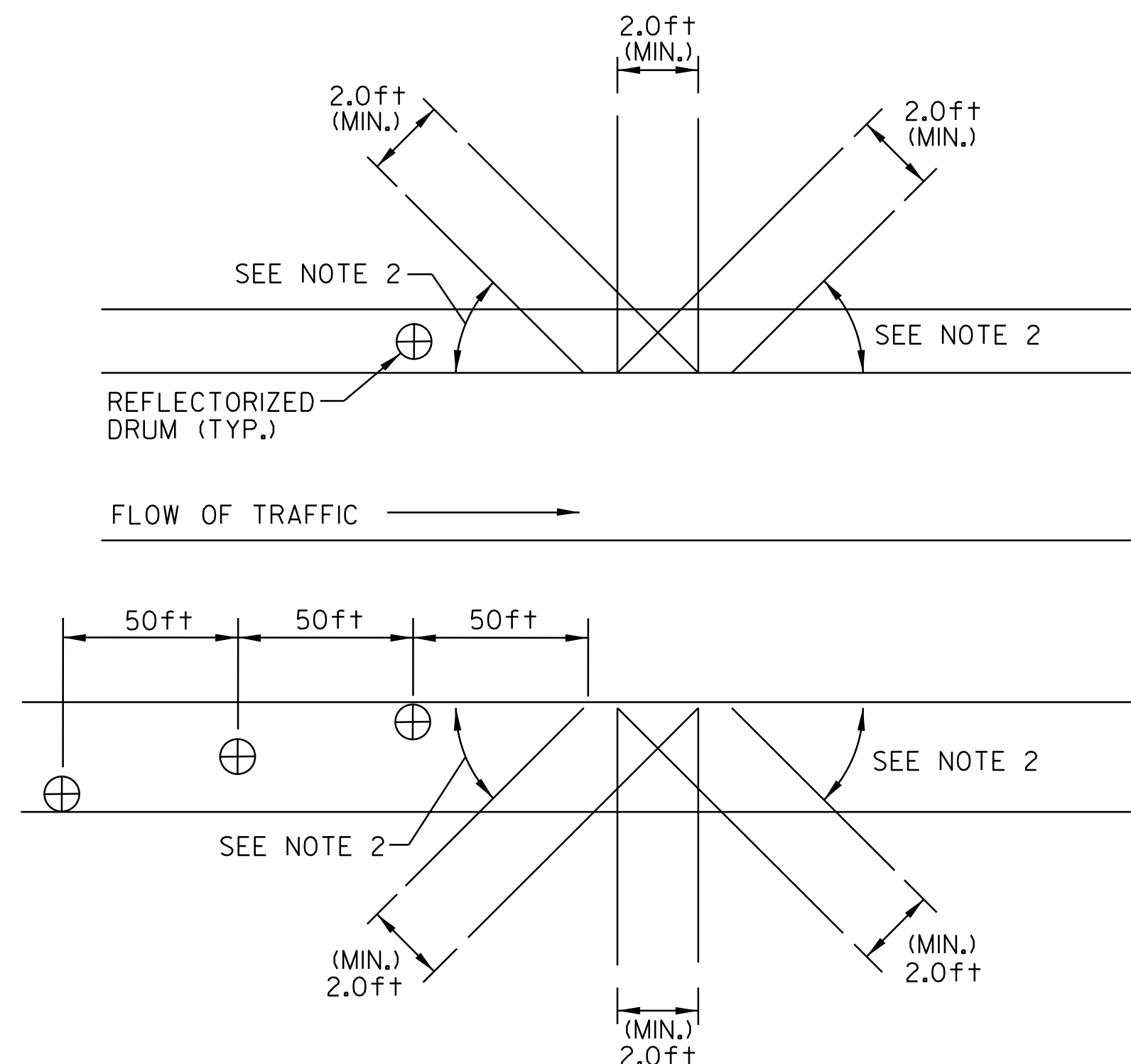
NOTES:

1. PROVIDE TEMPORARY PAVEMENT WEDGES AS DIRECTED BY THE RESIDENT ENGINEER (TAPER 1 in IN 50 ft MIN.)
2. BRIDGE #61N
  - 3" +/- OF EXISTING PAVEMENT
  - HAS MEMBRANE
  - 2 STEEL EXPANSION JOINTS,
  - 2 ASPHALTIC PLUG JOINTS
3. BRIDGE #63N
  - 3" +/- OF EXISTING PAVEMENT
  - HAS MEMBRANE
  - 2 ASPHALTIC PLUG JOINTS
4. BRIDGE #65N
  - 3" +/- OF EXISTING PAVEMENT
  - HAS MEMBRANE
  - 2 STEEL EXPANSION JOINTS,
  - 2 ASPHALTIC PLUG JOINTS
5. BRIDGE #66N
  - 3" +/- OF EXISTING PAVEMENT
  - HAS MEMBRANE
  - 2 STEEL EXPANSION JOINTS,
  - 2 ASPHALTIC PLUG JOINTS



**- TYPICAL SECTION AT GUARD RAIL -  
(@ EXISTING STEEL BEAM W/TREATED TIMBER CURBING)**

ALL GUARDRAIL SHALL BE STEEL BEAM WITH STEEL POSTS AND WOOD BLOCKOUTS (OR APPROVED ALTERNATIVE MATERIAL). NEW GUARDRAIL SHALL BE INSTALLED IN COMPLIANCE WITH STANDARD G-1.



**BLEEDER DETAIL**

NOTES:

1. BLEEDERS ARE TO BE CUT WHILE COLD PLANING, AT LOCATIONS SPECIFIED BY THE RESIDENT ENGINEER.
2. ANGLE BLEEDERS TO BEST ACCEPT WATER FLOW.
3. CUT ALL BLEEDERS TO THE DEPTH OF COLD PLANING AND GRADE TO DRAIN. PAYMENT INCIDENTAL TO ITEM 210.10.
4. BLEEDERS ARE TO BE FILLED DURING PAVING WITH ITEM 490.30 OR AS DESIGNATED BY THE RESIDENT ENGINEER.
5. REFLECTORIZED DRUMS MUST BE PLACED AS SHOWN TO WARN MOTORISTS OF THE GAP IN THE SHOULDER.
6. BLEEDERS ARE NOT REQUIRED IF THE COLD PLANED AREAS ARE PAVED BACK THE SAME DAY.

**SEEDING FORMULA  
RURAL AREAS**

% WT.	lbs./ACRE	NAME	PUR%	GERM%
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3	RED TOP	95	90
15.0	9	BIRDSFOOT TREFOIL	98	85
5.0	3	ANNUAL RYEGRASS	95	85
100.0	60			

SEED MIXTURE:  
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED:  
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER:  
FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 lbs/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:  
TO BE APPLIED AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH:  
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:  
TO BE USED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

**PROJECT  
TYPICAL  
SHEET #2**

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p01a030.dgn		
PRF FILE	p01a030+yp2.i	DATE PLOTTED	*****DATE*
PROJ. NAME	RICHMOND-SO. BURLINGTON		
PROJ. NO.	IM089-2(39)		
SHEET	52	OF	91 SHEETS