

NOTES

1. THE WEARING COURSE SHALL BE TYPE IIIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE LEVEING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE SHALL BE PG 64-28.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT A RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 INCH (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
4. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL- DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT ALL APPROACHES AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.
5. THE CONTRACTOR SHALL PAVE ALL U-TURNS LOCATED WITHIN THE PROJECT AREA AS DIRECTED BY THE RESIDENT ENGINEER.
6. ALL EDGES OF PAVEMENT AND TREATED TIMBER CURB SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
7. ITEM 616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS AROUND DROP INLETS) SHALL BE PAID FOR AT THE CONTRACT PRICE FOR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28).
8. AREAS ADJACENT TO THE SHOULDER WHERE EXISTING GUARDRAIL IS BEING RETAINED THAT HAVE BUILT-UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 203.40 SHOULDER BERM REMOVAL.
9. ESTIMATED QUANTITIES OF EARTH BORROW AND AGGREGATE SHOULDERS, RAP HAVE BEEN INCLUDED FOR CONSTRUCTING AND RESHAPING THE MANUFACTURED TERMINAL SECTION FLARES WHICH SHALL BE CAPPED WITH AN ESTIMATED 3" DEPTH OF AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDER MATERIAL, RAP AND 10 CUBIC YARDS OF EARTH BORROW FOR EACH GUARDRAIL TERMINAL BEING RESHAPED AND 25 CUBIC YARDS OF EARTH BORROW FOR EACH NEW GUARDRAIL TERMINAL BEING INSTALLED.
10. ALL DELINEATORS WITHIN THE PROJECT AREA ARE TO BE REPLACED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 676.10 DELINEATOR WITH STEEL POST.
11. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
12. AREAS ADJACENT TO THE SHOULDER THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN AS DIRECTED BY THE RESIDENT ENGINEER AND SHALL BE PAID FOR UNDER ITEM 608.15 POWER GRADER RENTAL.
13. ESTIMATED QUANTITIES OF ITEM 613.10 STONE FILL, TYPE I; ITEM 649.31 GEOTEXTILE UNDER STONE FILL; ITEM 653.20 TEMPORARY EROSION MATTING; AND ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I HAVE BEEN INCLUDED TO PROVIDE FOR THE REPAIR OF EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.
14. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR RENTAL OR POWER GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER.

**SEEDING FORMULA
RURAL AREAS**

| % WT. | LBS./A. | NAME | PUR % | GERM % |
|-------|---------|---------------------|-------|--------|
| 37.5 | 22.5 | CREEPING RED FESCUE | 98 | 85 |
| 37.5 | 22.5 | TALL FESCUE | 95 | 90 |
| 5.0 | 3.0 | RED TOP | 95 | 90 |
| 15.0 | 9.0 | BIRDSFOOT TREFOIL | 98 | 85 |
| 5.0 | 3.0 | ANNUAL RYEGRASS | 95 | 85 |
| 100.0 | 60.0 | | | |

GENERAL NOTES

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

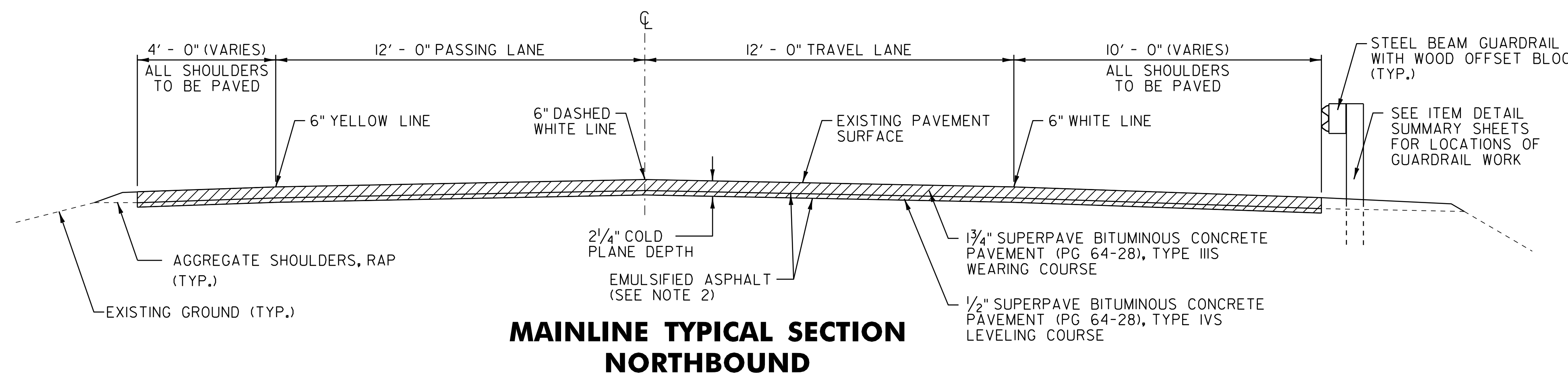
SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

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).

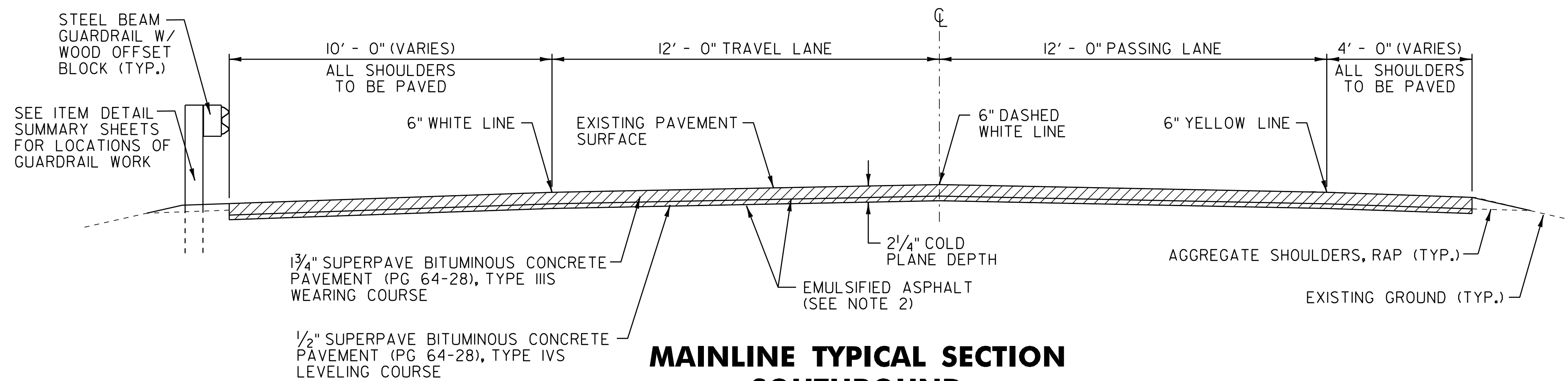
AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

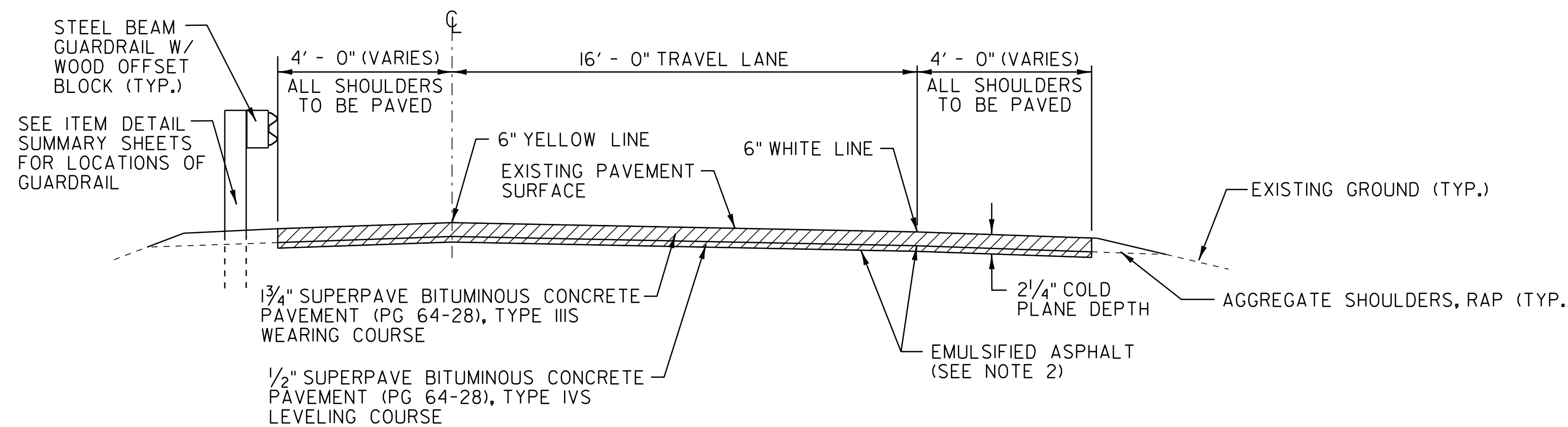
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.



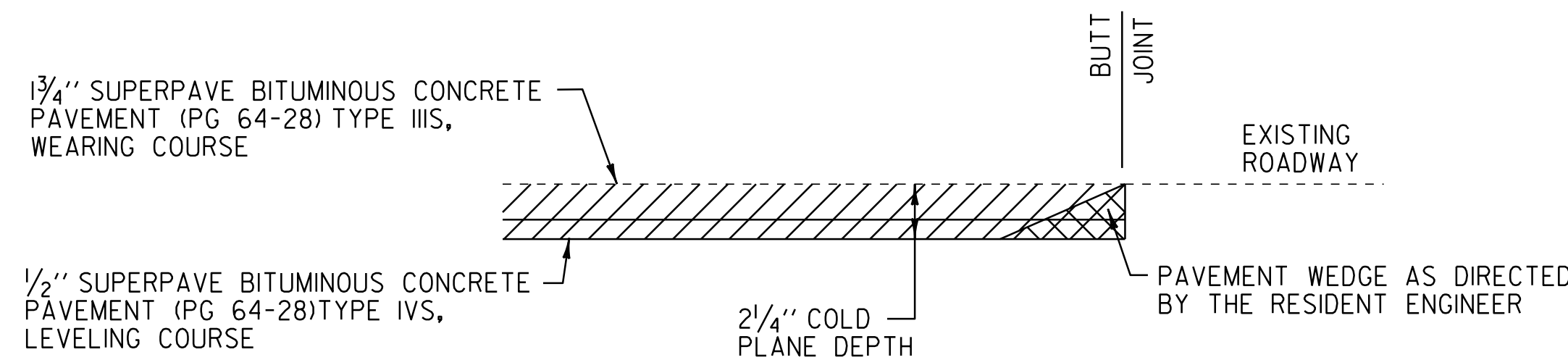
**MAINLINE TYPICAL SECTION
NORTHBOUND**



**MAINLINE TYPICAL SECTION
SOUTHBOUND**



RAMP TYPICAL



TYPICAL APPROACH AREA DETAIL

BETHEL: NORTHBOUND: MM 25.344 - BEGIN IM 089-(152)
SOUTHBOUND: MM 25.400 - BEGIN IM 089-(152)

RANDOLPH: NORTHBOUND MM 30.450 - END IM 089-(152)/BEGIN IM 089-(122)
SOUTHBOUND MM 30.450 - END IM 089-(152)/BEGIN IM 089-(122)
RAMP A STA. A1+00.00 - INTERCHANGE #4
RAMP B STA. B21+32.00 - INTERCHANGE #4
RAMP C STA. C16+86.00 - INTERCHANGE #4
RAMP D STA. D1+00.00 - INTERCHANGE #4

BROOKFIELD: NORTHBOUND MM 37.702 - END IM 089-(122)
SOUTHBOUND MM 36.933 - END IM 089-(122)

**COMPOSITE
TYPICAL
SECTION
SHEET**

PROJECT NAME: BETHEL - RANDOLPH & RANDOLPH - BROOKFIELD
PROJECT NUMBER: IM 089-1(52) & IM 089-1(22)
FILE NAME: p99a200.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: D.W.E.
IPARM FILE: p06a048c+tpl.i
PLOT DATE: \$DATE\$
DRAWN BY: C.A.K.
CHECKED BY: D.W.E.
SHEET 3 OF 61

NOT TO SCALE