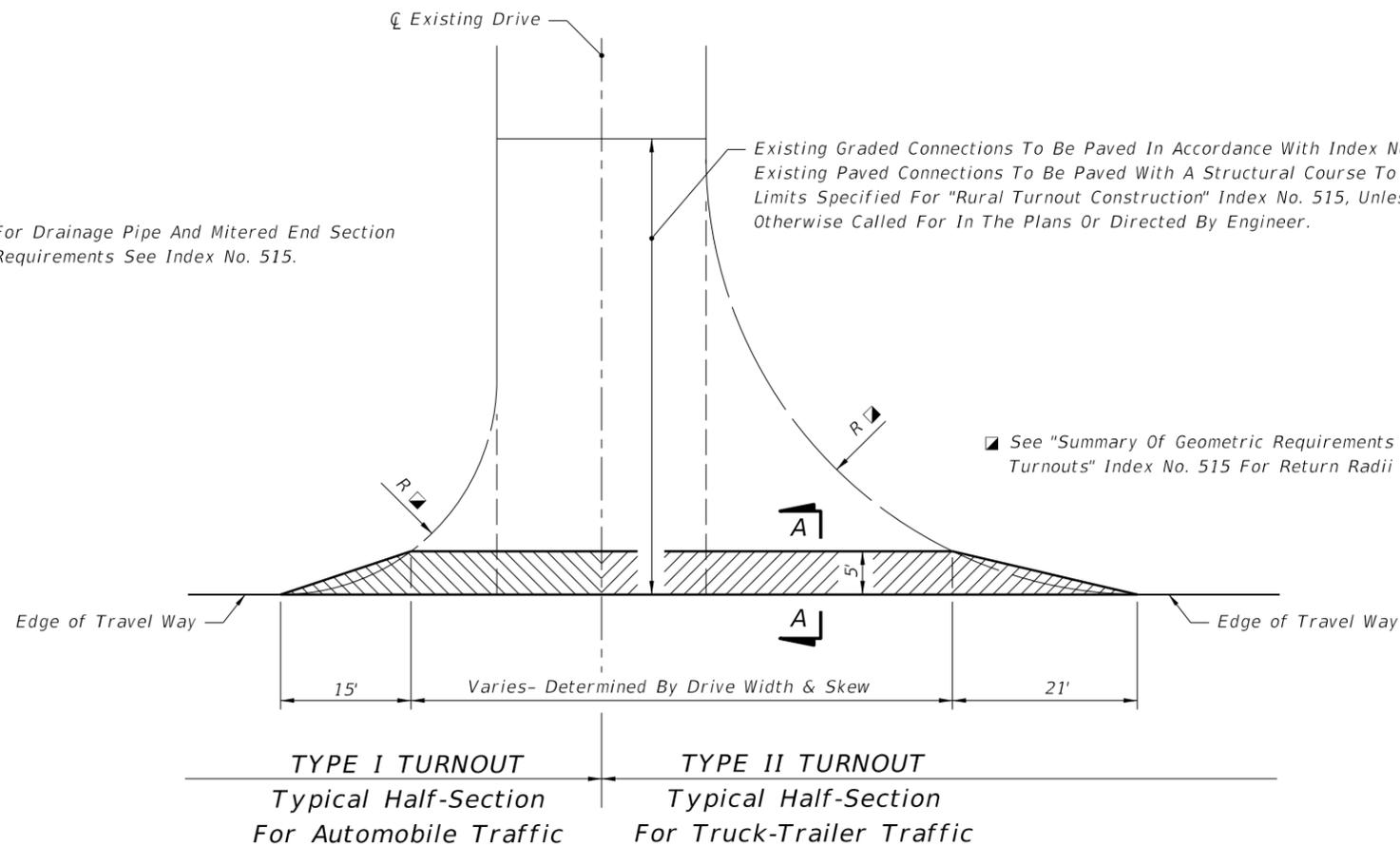
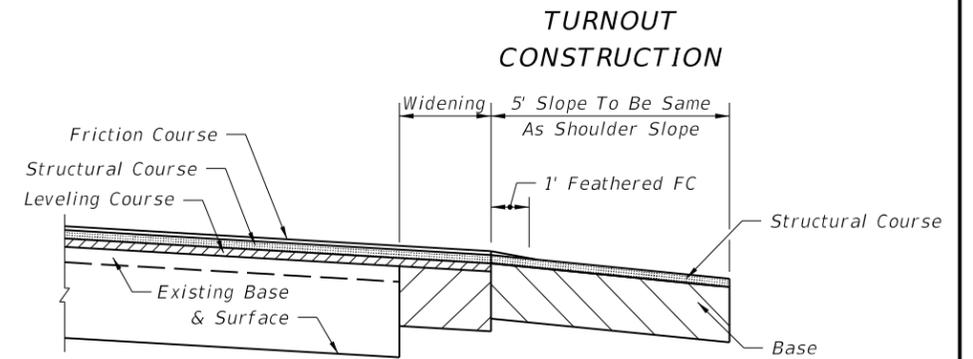


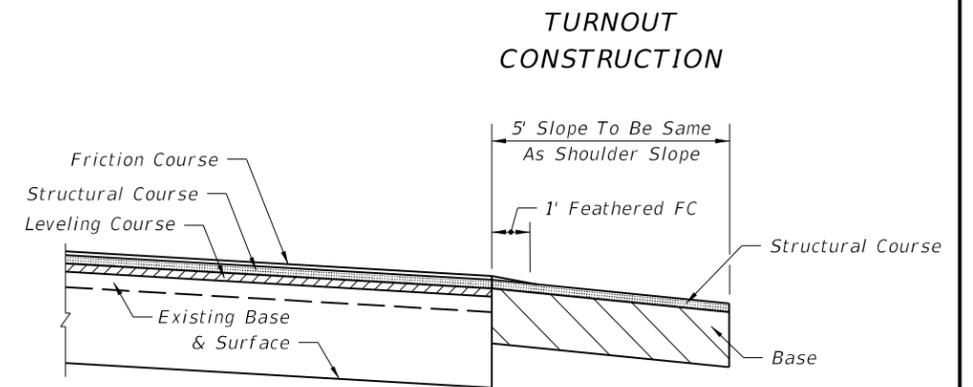
For Drainage Pipe And Mitered End Section Requirements See Index No. 515.



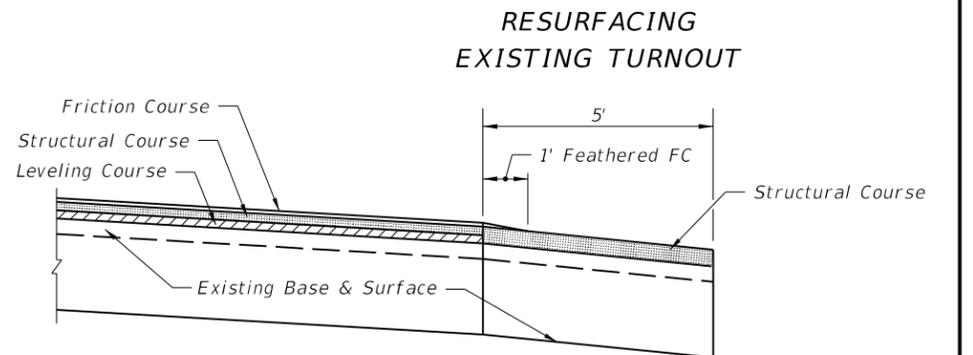
See "Summary Of Geometric Requirements For Turnouts" Index No. 515 For Return Radii Lengths.



SECTION AA WITH WIDENING



SECTION AA



SECTION AA

AREAS FOR ONE 5' DEEP TURNOUT (SY)

| Drive Width (Ft.) | Intersection |         |        |         |
|-------------------|--------------|---------|--------|---------|
|                   | Normal       |         | Skewed |         |
|                   | Type I       | Type II | Type I | Type II |
| 12                | 26           | 51      | 31     | 60      |
| 14                | 27           | 52      | 33     | 61      |
| 16                | 28           | 53      | 34     | 63      |
| 18                | 29           | 54      | 35     | 64      |
| 20                | 31           | 55      | 37     | 65      |
| 22                | 32           | 56      | 38     | 67      |
| 24                | 33           | 57      | 39     | 68      |
| 26                | 34           | 58      | 40     | 69      |
| 28                | 35           | 59      | 42     | 70      |
| 30                | 36           | 61      | 43     | 72      |
| 32                | 37           | 62      | 44     | 73      |
| 34                | 38           | 63      | 46     | 74      |
| 36                | 39           | 64      | 47     | 76      |
| 38                | 41           | 65      | 48     | 77      |
| 40                | 42           | 66      | 49     | 78      |
| 42                | 43           | 67      | 51     | 79      |
| 44                | 44           | 68      | 52     | 81      |
| 46                | 45           | 69      | 53     | 82      |
| 48                | 46           | 71      | 55     | 83      |
| 50                | 47           | 72      | 56     | 85      |
| 52                | 48           | 73      | 57     | 86      |
| 54                | 49           | 74      | 58     | 87      |
| 56                | 51           | 75      | 60     | 88      |
| 58                | 52           | 76      | 61     | 90      |
| 60                | 53           | 77      | 62     | 91      |

PAVEMENT STRUCTURE FOR 5' DEEP TURNOUTS

| Course     | Material                          | Minimum Thickness |
|------------|-----------------------------------|-------------------|
| Structural | Asphaltic Concrete                | 1"                |
| Base       | Optional Base (See Index No. 514) | O.B.G. 1          |

Notes:

- Turnout structural course to be the same material as roadway leveling or structure course. Structural course not required if asphalt base course and its thickness increased to match edge of roadway pavement.
- Any Department approved pavement structure equivalence may be used at the discretion of the Engineer.
- Additional structural strength may be required if heavy truck loads are anticipated.

GENERAL NOTES

- Turnouts are to be constructed or resurfaced for low volume (single family, duplex, farm, etc.) residential connections as directed by the Engineer.
- Turnout construction is not required for low volume residential connections where roadway shoulders are paved.
- Connections outside the 5' limit are to be constructed as directed by the Engineer.
- The contract unit price for Turnout Construction includes the cost for excavation and base.
- Payment for structural course is to be included in roadway resurfacing pay item.
- Payment for feathering friction course is to be included in the unit price for Asphaltic Concrete Friction Course placed on the roadway. Feathered areas will not be included in measured quantities. Feathering is not required for FC-5 friction course.

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