



INDIANA DEPARTMENT OF TRANSPORTATION

Design Memo No. 24-01

January 09, 2024

TO: All Design Personnel and Consultants

FROM: /s/ Athar Khan
Athar Khan
Director, Geotechnical Engineering
Engineering Department

SUBJECT: Subgrade Treatment

REVISES: *Indiana Design Manual* Section 603-4.0

EFFECTIVE: Lettings on or after June 1, 2024

The Standards Committee approved revisions to *Standard Specifications* section 207, Subgrade, at the October 2023 meeting. Revisions address the desire to reduce the number of standard subgrade treatments and refine the compaction and construction requirements. The following subgrade treatment types have been deleted.

- ID, 12 in. coarse aggregate with Type 2B geotextile in accordance with 918.02(e).
- IV, 12 in. coarse aggregate No. 53 with Type IB geogrid in accordance with 214.
- IVA, 12 in. coarse aggregate with geocell confinement system in accordance with 214.

RSP 207-R-781 should be included in all contracts with a subgrade treatment pay item. The RSP will be included on the February 2024 [RSP Menu](#).

Subgrade Treatment Recommendations

Where the project geotechnical report includes a recommendation for subgrade treatment Type ID, Type IV, or Type IVA, these subgrade treatment types should be revised to Type IC on Geogrid Type IB. A copy of this memo should be appended to the Geotechnical Report.

Geogrid Type IB should be quantified and paid for separately in accordance with *Standard Specifications* section 214.

Approved Pavement Designs

Previously approved pavement designs need not be resubmitted but should be amended as follows.

Where the pavement design includes subgrade treatment Type ID, Type IV, or Type IVA, these subgrade treatment types should be revised to Type IC on Geogrid Type IB. A copy of this memo should be appended to the Final Pavement Design file submitted with the Final Tracings package.

Pay Items

| Pay Item | Pay Item Description | Unit |
|---|------------------------------|-------------|
| For lettings on or after June 1, 2024, the following pay items should no longer be used. | | |
| 207-12498 | SUBGRADE TREATMENT, TYPE ID | SYS |
| 207-08268 | SUBGRADE TREATMENT, TYPE IV | SYS |
| 207-12151 | SUBGRADE TREATMENT, TYPE IVA | SYS |
| Pay items above should be replaced with the following. | | |
| 207-09935 | SUBGRADE TREATMENT, TYPE IC | SYS |
| 214-11796 | GEOGRID, TYPE IB | SYS |

Revisions

Plans, quantities, and estimate should be updated to reflect the revised subgrade treatment type.

IDM Revisions

References to Subgrade Treatment Types IV and Type IVA have been deleted from IDM Section 603-4.0, Widening.

Questions

Questions regarding revised subgrade treatment recommendations should be directed to the INDOT Geotechnical Engineering Division, Athar Khan, at atkhan@indot.in.gov.

Questions regarding pavement designs should be directed to the INDOT Office of Pavement Engineering, Kumar Dave, at kdave@indot.in.gov.