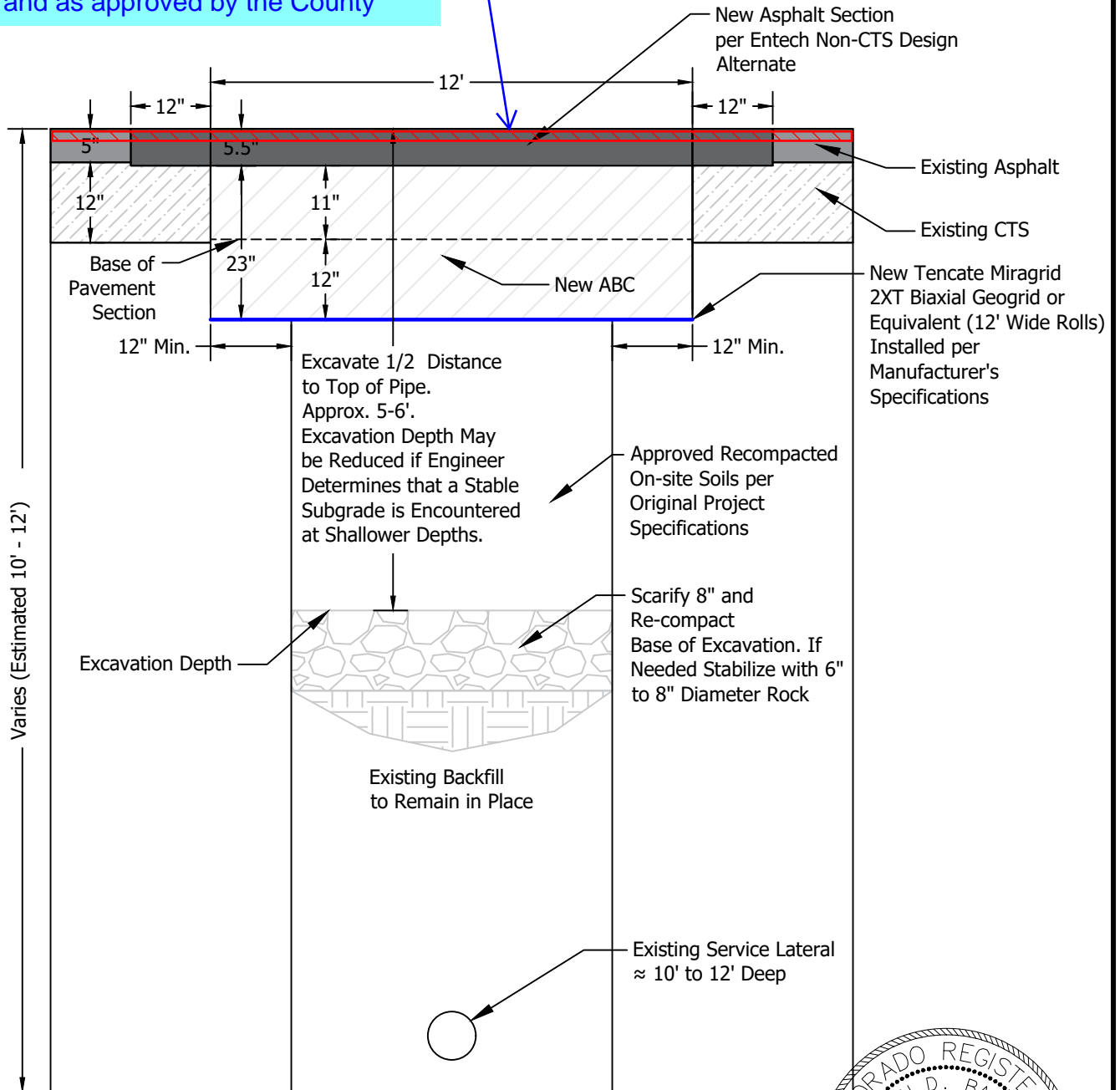


W:\2022\Centennial\22.141.F.Trails at Aspen Ridge Settlement Evaluation\ACAD\22.141.Repair_Details.dwg 11/9/2023 3:27 PM

Future Mill & Overlay extent to be determined based on field condition and as approved by the County



ABC = Aggregate Base Course
 CTS = Cement Treated Subgrade

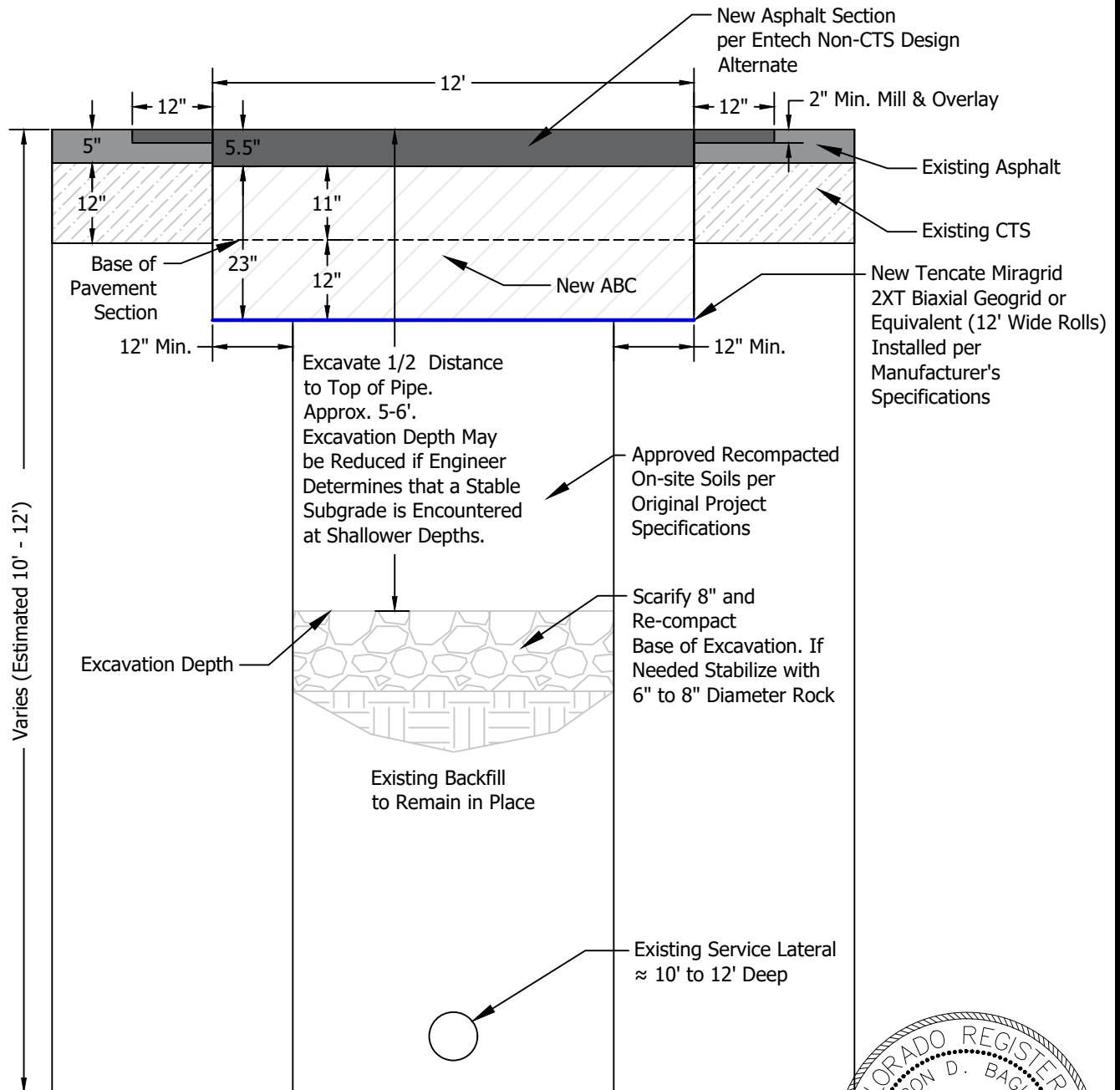
Accepted for File
 By: Gilbert LaForce, P.E.
 Engineering Manager
 Date: 11/14/2023 10:32:37 AM
 El Paso County Department of Public Works



**Partial Depth Trench Backfill
 Remediation Option With Future Mill & Overlay**

| | | | |
|---------------|---|-------------|-----|
| PROJECT NO: | 22.141 | | |
| PROJECT NAME: | Trails at Aspen Ridge Settlement Evaluation | | |
| DRAWN BY: | MSR | CHECKED BY: | ADB |
| DWG DATE: | 11.09.23 | REV. DATE: | -- |





ABC = Aggregate Base Course
 CTS = Cement Treated Subgrade

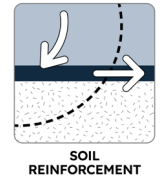
Accepted for File
 By: Gilbert LaForce, P.E.
 Engineering Manager
 Date: 11/14/2023 10:32:51 AM
 El Paso County Department of Public Works



**Partial Depth Trench Backfill
 Remediation Option Without Future Mill & Overlay**

| | | | |
|---------------|---|-------------|-----|
| PROJECT NO: | 22.141 | | |
| PROJECT NAME: | Trails at Aspen Ridge Settlement Evaluation | | |
| DRAWN BY: | MSR | CHECKED BY: | ADB |
| DWG DATE: | 11.09.23 | REV. DATE: | -- |





MIRAGRID 2XT

MIRAGRID® 2XT biaxial geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. MIRAGRID 2XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

MIRAGRID 2XT geogrid is used as soil reinforcement in MSE structures such as segmental retaining walls, precast modular block walls, wire faced walls, geosynthetic wrapped faced walls and steepened slopes. MIRAGRID 2XT is also used in MSE stabilized platforms for voids bridging, embankments on soft soils, landfill veneer stability, reducing differential settlement and for foundation seismic stability. TenCate Geosynthetics Americas (A Solmax Company) is accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

MIRAFI 2XT meets Build America, Buy America Act, Pub. L. No. 117-58, div. G §§ 70901-52.

| MECHANICAL PROPERTIES | TEST METHOD | UNIT | MINIMUM AVERAGE ROLL VALUE | |
|--|-----------------------------------|---------------|----------------------------|-------------|
| | | | MD | CD |
| Tensile Strength @ Ultimate | ASTM D6637(Method B) | lbs/ft (kN/m) | 2300 (33.6) | 2300 (33.6) |
| Tensile Strength @ 5% strain | ASTM D6637(Method B) | lbs/ft (kN/m) | 1080 (15.8) | 550 (8.0) |
| | | | MINIMUM ROLL VALUE | |
| | | | MD | CD |
| Creep Rupture Strength ¹ | ASTM D5262/D6992 | lbs/ft (kN/m) | 1597 (23.3) | 1597 (23.3) |
| Long Term Design Strength ² | | lbs/ft (kN/m) | 1383 (20.2) | 1383 (20.2) |
| PHYSICAL PROPERTIES | UNIT | | ROLL SIZE | |
| Roll Dimensions ³ (width x length) | ft (m) | | 4 x 50 (1.2 x 15) | |
| | | | 6 x 150 (1.8 x 46) | |
| | | | 12 x 150 (3.6 x 46) | |
| Roll Area | yd ² (m ²) | | 22 (18) | |
| | | | 100 (84) | |
| | | | 200 (167) | |
| Estimated Roll Weight | lbs (kg) | | 25 (11) | |
| | | | 50 (23) | |
| | | | 109 (49) | |

¹ 75-year design life based on NTPEP Report [REGEO-2016-01-062](#).

² Value based on Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request)

³ Special order roll lengths are available upon request.

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Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.
FGS000116 ETQR39

