

**OWNER / APPLICANT**

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
(TRANSCO)  
P.O. BOX 1396  
2800 POST OAK BLVD.  
HOUSTON, TX 77056

CONTACT: KAREN OLSON  
PERMIT AGENT  
(713) 215-4232

**PLAN PREPARER**

AECOM  
625 WEST RIDGE PIKE, SUITE E-100  
CONSHOHOCKEN, PA 19428

CONTACT: PETER HAAS, P.E.  
PROJECT ENGINEER  
(610) 832-8832

CERTIFYING ENGINEER: KEVIN MCKEON, P.E.

**PROJECT DESCRIPTION**

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO) IS PROPOSING TO CONSTRUCT ITS COMPRESSOR STATION (CS 206) IN FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY. THE PROJECT WILL INVOLVE THE CONSTRUCTION OF SMALL BUILDINGS, GRAVEL ACCESS ROAD AND PARKING AREAS, EQUIPMENT PADS, AND THE INSTALLATION OF TWO GAS PIPELINES (A SUCTION LINE AND A GAS DISCHARGE LINE) TO CONNECT THE PROPOSED COMPRESSOR STATION TO THE EXISTING NATURAL GAS TRANSMISSION LINE.

THESE DRAWINGS SHOW THE SITE GRADING AND POST CONSTRUCTION STORMWATER MANAGEMENT MEASURES PLANNED IN CONJUNCTION WITH CS206, IN ACCORDANCE WITH N.J.A.C. 7-8 (STORMWATER MANAGEMENT) SUBCHAPTER 5.

THIS EXPANSION PROJECT IS REGULATED BY THE U.S. DEPARTMENT OF ENERGY, FEDERAL ENERGY REGULATORY COMMISSION (FERC), IN ADDITION TO STATE AND LOCAL REQUIREMENTS. THIS EROSION AND SEDIMENT CONTROL PLAN INCLUDES MITIGATION MEASURES FOR PIPELINE CONSTRUCTION SPECIFIED BY FERC IN ITS PLAN AND PROCEDURES DOCUMENTS, UPLAND EROSION CONTROL, REVEGETATION AND MAINTENANCE PLAN, MAY 2013 AND WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES, MAY 2013.

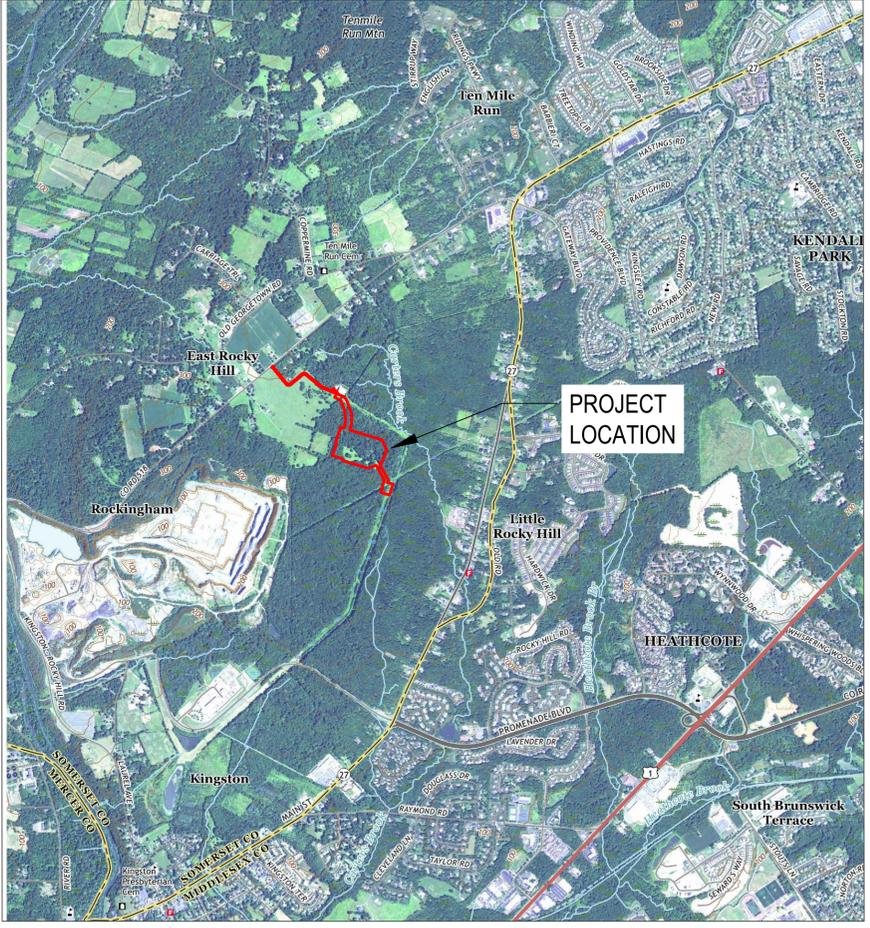
**ANTICIPATED CONSTRUCTION & RESTORATION SCHEDULE**

|              | START       | END         |
|--------------|-------------|-------------|
| CONSTRUCTION | SPRING 2020 | SPRING 2021 |
| RESTORATION  | SPRING 2021 | FALL 2021   |

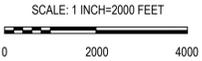
# SOIL EROSION AND SEDIMENT CONTROL PLAN NORTHEAST SUPPLY ENHANCEMENT PROJECT COMPRESSOR STATION NO. 206 HIGGINS FARM ACCESS ROAD FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY

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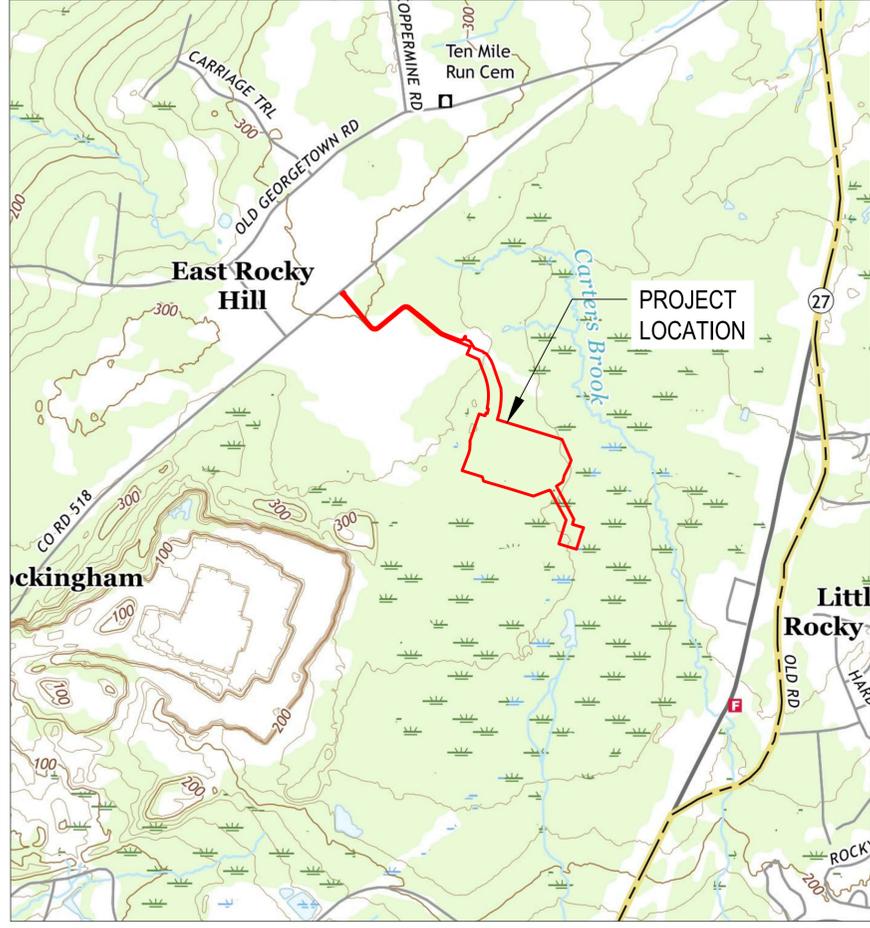
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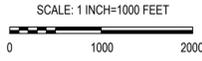
**USGS AERIAL MAP**



MAP SOURCE  
MONMOUTH JUNCTION, NJ QUADRANGLE  
U.S. GEOLOGICAL SURVEY, 2016



**USGS TOPOGRAPHIC MAP**



MAP SOURCE  
MONMOUTH JUNCTION, NJ QUADRANGLE  
U.S. GEOLOGICAL SURVEY, 2016



**PROJECT LOCATION**

**REFERENCES**

- EXISTING FEATURE INFORMATION (TOPOGRAPHY, PROPERTY LINES, UTILITIES, ETC.) BASED ON FIELD SURVEY PROVIDED BY TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO)
- STREAM AND WETLAND INFORMATION SHOWN BASED ON FIELD DELINEATION PERFORMED BY ECOLOGY & ENVIRONMENT AND PROVIDED BY TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO).
- PROPOSED SITE LAYOUT INFORMATION (ROADWAY, COMPRESSOR STATION FACILITIES, GRADING, ETC.) PROVIDED BY HUNT GUILLOT & ASSOCIATES (HGA).

**SEQUENCE OF CONSTRUCTION**

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SE&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST SEVEN (7) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE SE&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- MAKE NOTIFICATIONS ACCORDING TO PERMIT REQUIREMENTS.
- HOLD PRE-CONSTRUCTION MEETING WITH ENVIRONMENTAL INSPECTOR.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES AND OTHER TEMPORARY PERIMETER EROSION CONTROL MEASURES (I.E. SEDIMENT BARRIER) AS INDICATED ON THE SE&S PLANS AND DETAILS PRIOR TO EARTH DISTURBING ACTIVITIES.
- CONSTRUCT THE SEDIMENT BASIN, INCLUDING OUTLET STRUCTURE, OUTLET PROTECTION AND EMERGENCY SPILLWAY AS INDICATED ON THE SE&S PLANS AND DETAILS. CARE SHOULD BE TAKEN TO AVOID COMPACTION OF THE BASIN BOTTOM. REFER TO THE 'BASIN COMPACTION NOTES'. DO NOT INSTALL THE SAND MEDIA IN THE BASIN BOTTOM AT THIS TIME.

- REMOVE TOPSOIL FROM VEGETATED AREAS TO BE DISTURBED DURING EXCAVATION AND STOCKPILE IN STOCKPILE AREA.
- COMPLETE WORK ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF COMPRESSOR STATION, ACCESS ROAD, LOOP ROAD, VALVES AND PIPING, VEGETATED SWALES ETC.
- RETURN TOPSOIL TO DESIGNATED AREAS.
- COMPLETE FINAL STABILIZATION INCLUDING SOIL TREATMENT, SEEDBED PREPARATION, SEED APPLICATION AND MULCHING.
- AFTER FINAL STABILIZATION IS COMPLETED BY REVEGETATION AND OTHER PERMANENT STABILIZATION MEASURES, AS APPLICABLE, CONSTRUCT DETENTION BASINS #1 AND #2, CLEAN OUT THE SEDIMENT BASIN AND CONVERT TO AN INFILTRATION BASIN BY INSTALLING SAND MEDIA IN THE BASIN BOTTOM.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS AND CLEAN UP PROJECT SITE.
- SUBMIT A COMPLETED NOTICE OF TERMINATION TO THE CONSERVATION DISTRICT.

**MAINTENANCE**

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE SEDIMENT BARRIER SHALL BE CHECKED REGULARLY FOR UNDERMINING, AND DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION IS HALF WAY TO THE TOP OF THE BARRIER. THE SEEDING AREAS SHALL BE CHECKED TO ENSURE THAT THE DEVELOPMENT OF A GOOD VEGETATIVE STAND AND GROWTH CONTINUES. THE AREAS SHALL BE FERTILIZED AND RESEEDED AS NEEDED.

| DISTURBED AREA         |            |
|------------------------|------------|
| AREA DESCRIPTION       | ACREAGE    |
| COMPRESSOR STATION 206 | 21.5 ACRES |

KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO. GE32586

**AECOM**  
625 WEST RIDGE PIKE, SUITE E-100  
CONSHOHOCKEN, PA 19428  
(610) 832-3500

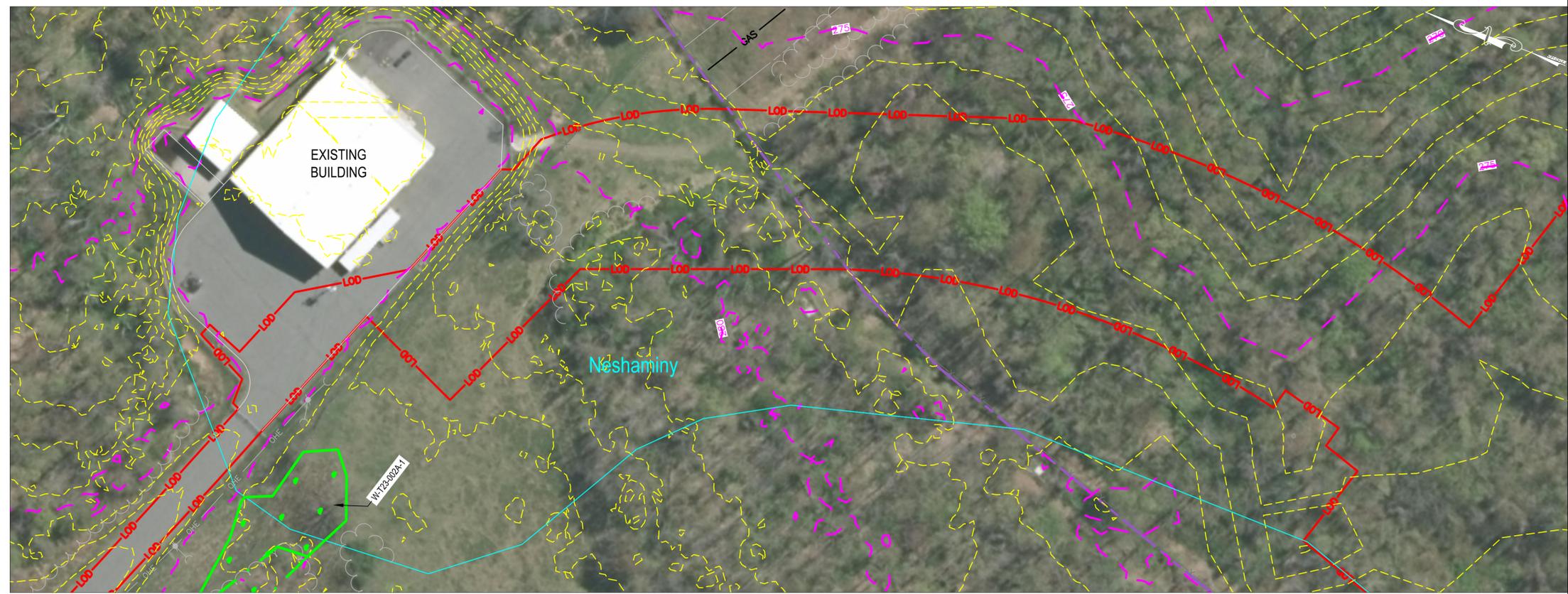
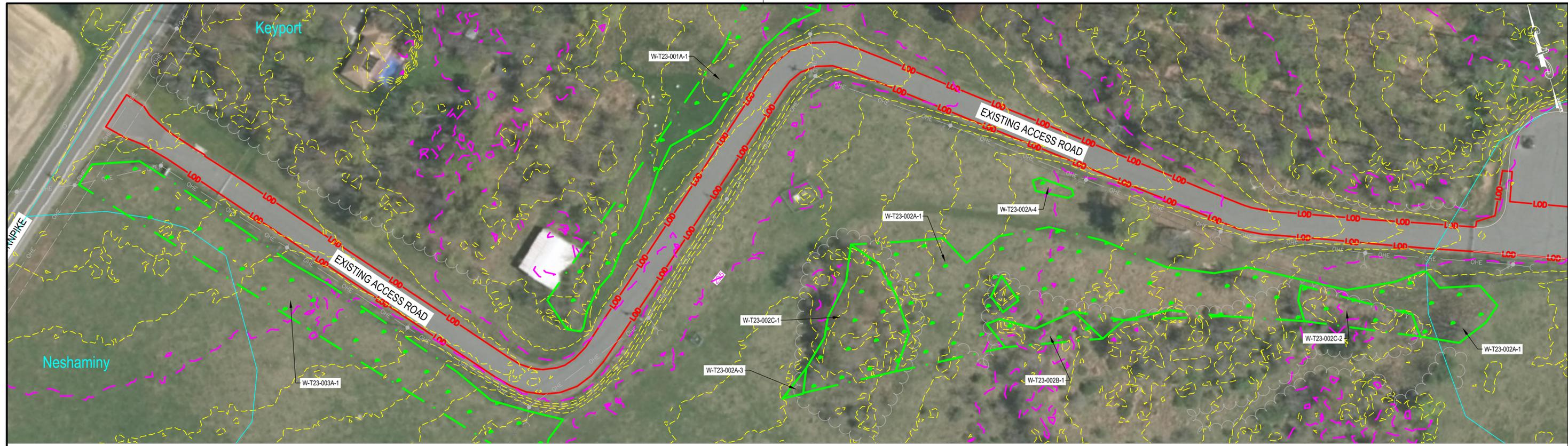
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|-----------|------------|-----|------------------|----------|-----------|
| NO.       | DATE       | BY  | DESCRIPTION      | W.O. NO. | CHK. APP. |
| 0         | 01/15/2020 | PPH | NUDEP SUBMISSION | 1185732  | TFP KDM   |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION AND SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
COVER SHEET  
FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

|                  |                  |                              |               |
|------------------|------------------|------------------------------|---------------|
| DRAWN BY: PPH    | DATE: 01/15/2020 | ISSUED FOR BID: TBD          | SCALE: N.T.S. |
| CHECKED BY: TFP  | DATE: 01/15/2020 | ISSUED FOR CONSTRUCTION: TBD | REVISION: 0   |
| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 1 OF 13 |
| W.O. 1185732     |                  |                              |               |

Drawn By: Date/Time: hause Jan 10, 2020 - 2:00pm  
Drawing Location & Name: S:\Projects\ENV\60537393\_NESE\_CS206\900-CAD-GIS\910-CAD\30-E&S SHEETS\EPA Road\01 - E&S Cover\_CS 206 - EPA Road.dwg

Drawn By: & Date/Time: harsp Jan 10, 2020 - 2:00pm  
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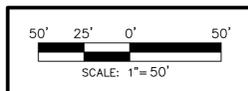
**LEGEND**

- | EXISTING FEATURES |                              | PROPOSED FEATURES |                      |
|-------------------|------------------------------|-------------------|----------------------|
|                   | 265 EXISTING MAJOR CONTOUR   |                   | LIMIT OF DISTURBANCE |
|                   | EXISTING MINOR CONTOUR       |                   |                      |
|                   | STREAM CENTERLINE            |                   |                      |
|                   | WETLAND                      |                   |                      |
|                   | PARCEL LINE                  |                   |                      |
|                   | EXISTING ACCESS ROADS        |                   |                      |
|                   | EXISTING FENCE               |                   |                      |
|                   | EXISTING OVERHEAD POWER LINE |                   |                      |
|                   | EXISTING PIPELINE            |                   |                      |
|                   | EXISTING RIGHT OF WAY        |                   |                      |
|                   | SOIL TYPE BOUNDARY           |                   |                      |
|                   | SOIL TYPE                    |                   |                      |



- NOTES:**
- THIS BASE MAP WAS PREPARED ON AERIAL TOPOGRAPHY AND ACTUAL FIELD SURVEY PROVIDED BY WILLIAMS AND ARE REFERENCED TO THE NEW JERSEY STATE PLANE DATUM.
  - PROPERTY LINE INFORMATION PROVIDED BY WILLIAMS.
  - PROPOSED COMPRESSOR STATION SITE WILL BE STABILIZED WITH CLEAN CRUSHED ROCK (GRAVEL).

- SOIL LEGEND:**
- MJA MOUNT LUCAS SILT LOAMS
  - NehB NESHAMINY SILT LOAMS
  - WasA WATCHUNG SILT LOAM



KEVIN MAREON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

| REVISIONS |            |     |                  | W.O. NO. | CHK | APP. |
|-----------|------------|-----|------------------|----------|-----|------|
| NO        | DATE       | BY  | DESCRIPTION      |          |     |      |
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EXISTING CONDITIONS AND SOILS MAP (1 OF 3)  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

|                  |                  |                              |               |
|------------------|------------------|------------------------------|---------------|
| DRAWN BY: PPH    | DATE: 01/15/2020 | ISSUED FOR BD: TBD           | SCALE: 1"=50' |
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| WO: 1185732      |                  |                              |               |

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### LEGEND

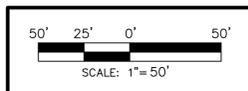
- EXISTING FEATURES**
- 265 EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - STREAM CENTERLINE
  - WETLAND
  - PARCEL LINE
  - EXISTING ACCESS ROADS
  - X EXISTING FENCE
  - OHE EXISTING OVERHEAD POWER LINE
  - EXISTING PIPELINE
  - EXISTING RIGHT OF WAY
  - SOIL TYPE BOUNDARY
  - WasA SOIL TYPE

- PROPOSED FEATURES**
- LOD LIMIT OF DISTURBANCE



- NOTES:**
1. THIS BASE MAP WAS PREPARED ON AERIAL TOPOGRAPHY AND ACTUAL FIELD SURVEY PROVIDED BY WILLIAMS AND ARE REFERENCED TO THE NEW JERSEY STATE PLANE DATUM.
  2. PROPERTY LINE INFORMATION PROVIDED BY WILLIAMS.
  3. PROPOSED COMPRESSOR STATION SITE WILL BE STABILIZED WITH CLEAN CRUSHED ROCK (GRAVEL).

- SOIL LEGEND:**
- MuA MOUNT LUCAS SILT LOAMS
  - NehB NESHAMINY SILT LOAMS
  - WasA WATCHUNG SILT LOAM



**AECOM**  
 625 WEST RIDGE PIKE, SUITE E-100  
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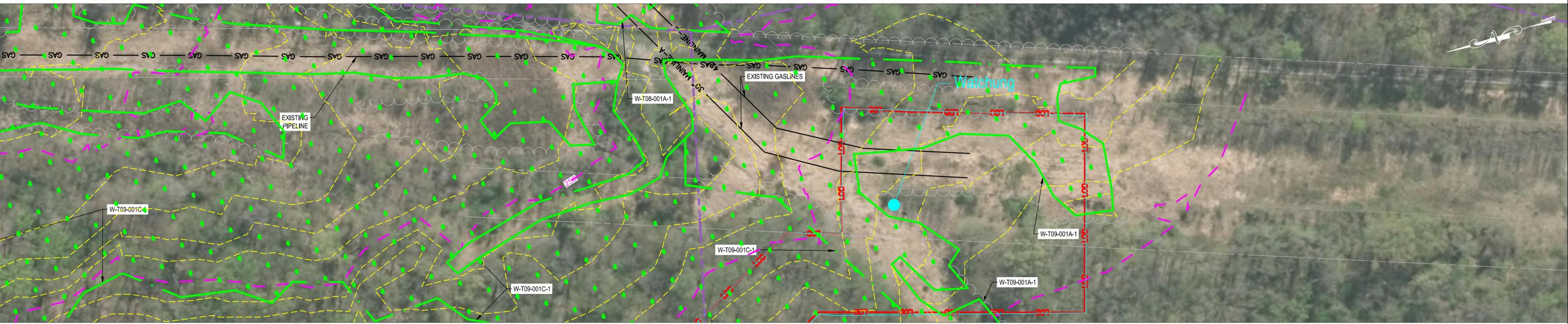
KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

| REVISIONS |            |     |                  |         |         |
|-----------|------------|-----|------------------|---------|---------|
| NO        | DATE       | BY  | DESCRIPTION      | W.O. NO | CHK APP |
| 0         | 01/15/2020 | PPH | NUDEP SUBMISSION | 1185732 | TFP KDM |

**TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.**  
**SOIL EROSION AND SEDIMENT CONTROL PLAN**  
**NORTHEAST SUPPLY ENHANCEMENT PROJECT**  
**COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD**  
**EXISTING CONDITIONS AND SOILS MAP (2 OF 3)**  
**FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ**

|                  |                  |                              |               |
|------------------|------------------|------------------------------|---------------|
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| WO: 1185732      |                  |                              |               |

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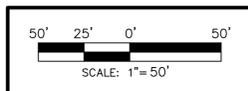


### LEGEND

- | EXISTING FEATURES |                              | PROPOSED FEATURES |                          |
|-------------------|------------------------------|-------------------|--------------------------|
|                   | 265 EXISTING MAJOR CONTOUR   |                   | LOD LIMIT OF DISTURBANCE |
|                   | EXISTING MINOR CONTOUR       |                   |                          |
|                   | STREAM CENTERLINE            |                   |                          |
|                   | WETLAND                      |                   |                          |
|                   | PARCEL LINE                  |                   |                          |
|                   | EXISTING ACCESS ROADS        |                   |                          |
|                   | EXISTING FENCE               |                   |                          |
|                   | EXISTING OVERHEAD POWER LINE |                   |                          |
|                   | EXISTING PIPELINE            |                   |                          |
|                   | EXISTING RIGHT OF WAY        |                   |                          |
|                   | SOIL TYPE BOUNDARY           |                   |                          |
|                   | SOIL TYPE                    |                   |                          |

- NOTES:**
- THIS BASE MAP WAS PREPARED ON AERIAL TOPOGRAPHY AND ACTUAL FIELD SURVEY PROVIDED BY WILLIAMS AND ARE REFERENCED TO THE NEW JERSEY STATE PLANE DATUM.
  - PROPERTY LINE INFORMATION PROVIDED BY WILLIAMS.
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- SOIL LEGEND:**
- MuA MOUNT LUCAS SILT LOAMS
  - NeB NESHAMINY SILT LOAMS
  - WasA WATCHUNG SILT LOAM



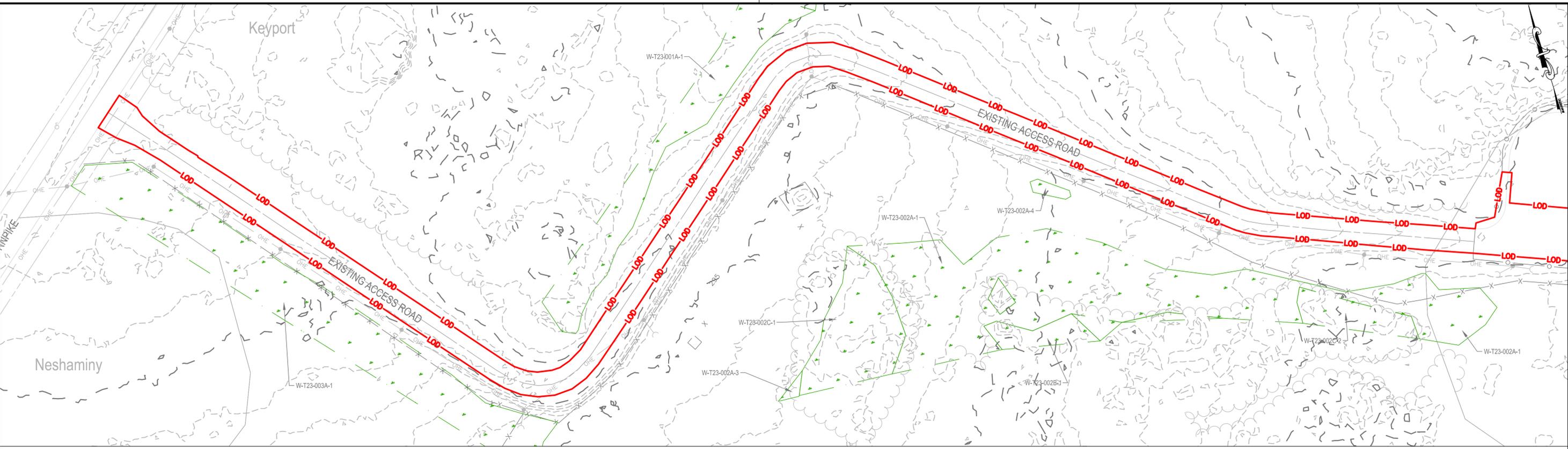
KEVIN MCKEON, P.E.  
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| REVISIONS |            |     |                  |          |      |      |
|-----------|------------|-----|------------------|----------|------|------|
| NO.       | DATE       | BY  | DESCRIPTION      | W.O. NO. | CHK. | APP. |
| 0         | 01/15/2020 | PPH | NJDEP SUBMISSION | 1185732  | TFP  | KDM  |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EXISTING CONDITIONS AND SOILS MAP (3 OF 3)  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

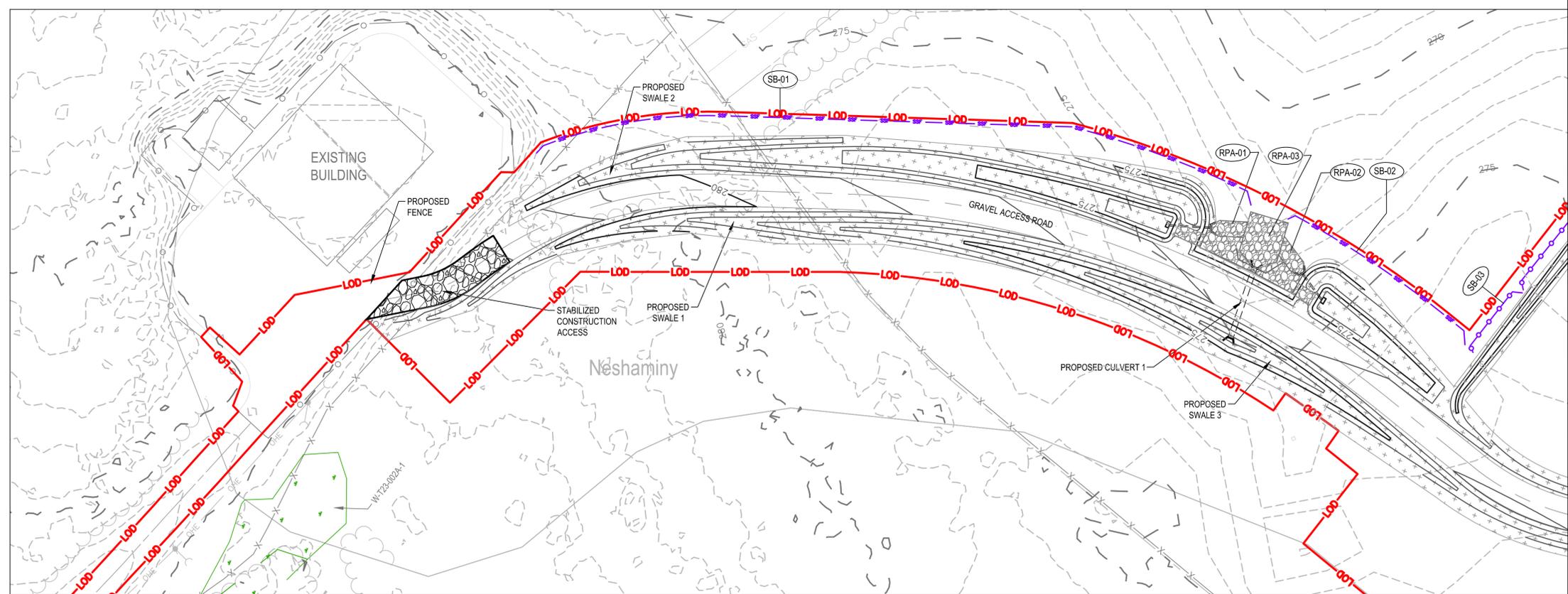
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| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 4 OF 13 |
| WO: 1185732      |                  |                              |               |

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### LEGEND

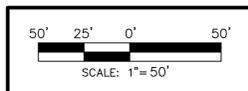
| EXISTING FEATURES |                              | PROPOSED FEATURES |                                     |
|-------------------|------------------------------|-------------------|-------------------------------------|
|                   | 265 EXISTING MAJOR CONTOUR   |                   | LOD LIMIT OF DISTURBANCE            |
|                   | EXISTING MINOR CONTOUR       |                   | 265 PROPOSED CONTOUR MAJOR          |
|                   | STREAM CENTERLINE            |                   | PROPOSED CONTOUR MINOR              |
|                   | WETLAND                      |                   | PROPOSED PIPELINE                   |
|                   | EXISTING TREE LINE           |                   | CULVERT                             |
|                   | PARCEL LINE                  |                   | CONDUIT OUTLET PROTECTION           |
|                   | EXISTING ACCESS ROADS        |                   | PROPOSED FENCE                      |
|                   | EXISTING FENCE               |                   | PROPOSED TREE LINE                  |
|                   | EXISTING OVERHEAD POWER LINE |                   | EROSION CONTROL BLANKET             |
|                   | EXISTING PIPELINE            |                   | PROPOSED GRAVEL                     |
|                   | EXISTING RIGHT OF WAY        |                   | PROPOSED CONCRETE                   |
|                   | SOIL TYPE BOUNDARY           |                   | SEDIMENT BARRIER (SILT FENCE)       |
|                   | SOIL TYPE                    |                   | SEDIMENT BARRIER (SUPER SILT FENCE) |
|                   |                              |                   | TEMPORARY SAFETY FENCE              |
|                   |                              |                   | STABILIZED CONSTRUCTION ACCESS      |
|                   |                              |                   | TEMPORARY STOCKPILE                 |
|                   |                              |                   | RIPRAP SLOPE PROTECTION             |



- NOTES:**
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  - PROPERTY LINE INFORMATION PROVIDED BY WILLIAMS.
  - PROPOSED COMPRESSOR STATION SITE WILL BE STABILIZED WITH CLEAN CRUSHED ROCK (GRAVEL).

**SOIL LEGEND:**

|      |                        |
|------|------------------------|
| MuA  | MOUNT LUCAS SILT LOAMS |
| NehB | NESHAMINY SILT LOAMS   |
| WasA | WATCHUNG SILT LOAM     |



KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

| REVISIONS |            |     |                  | W.O. NO. | CHK. | APP. |
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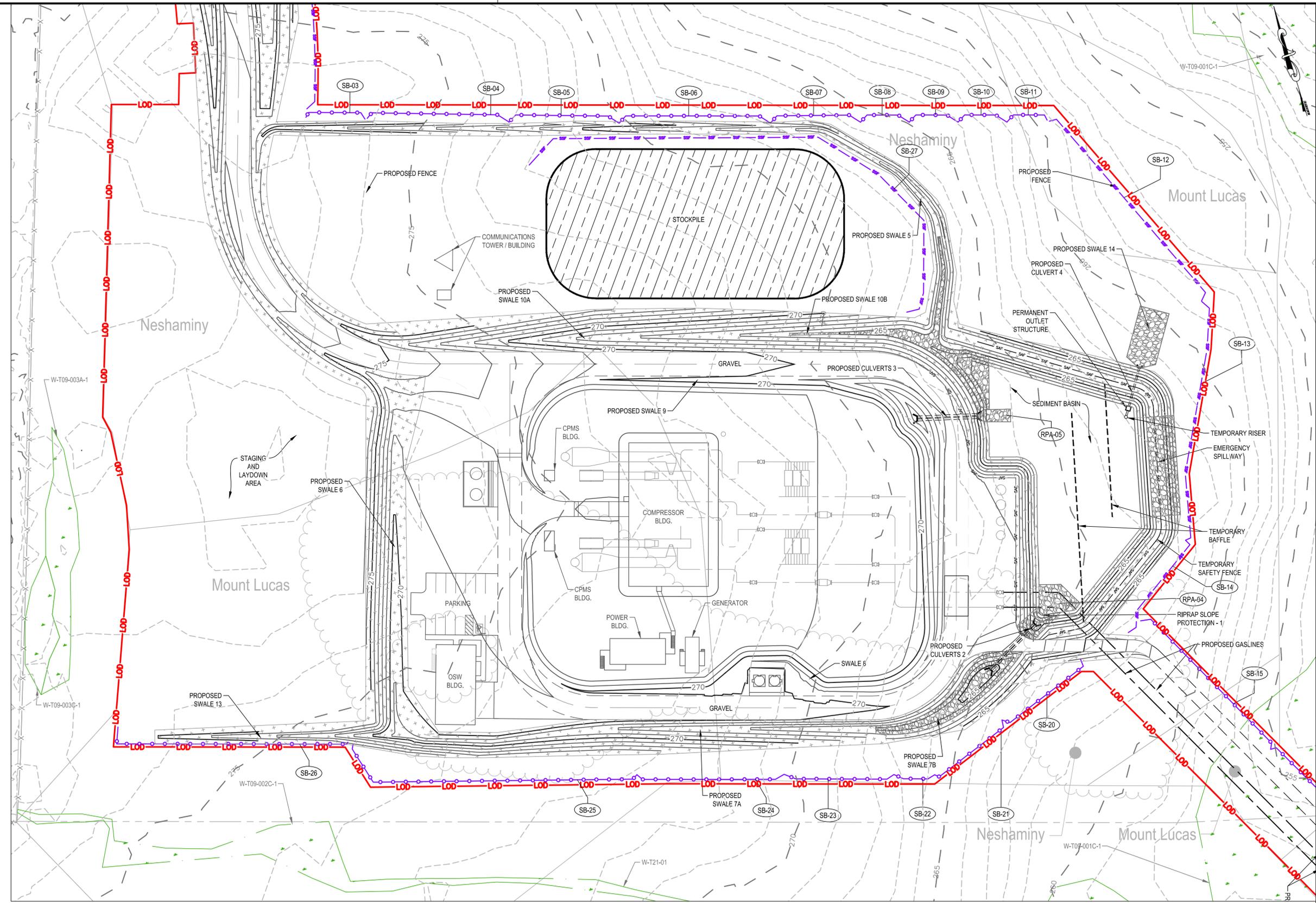
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EROSION CONTROL PLAN (1 OF 3)  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

|                  |                  |                              |               |
|------------------|------------------|------------------------------|---------------|
| DRAWN BY: PPH    | DATE: 01/15/2020 | ISSUED FOR BID: TBD          | SCALE: 1"=50' |
| CHECKED BY: TFP  | DATE: 01/15/2020 | ISSUED FOR CONSTRUCTION: TBD | REVISION: 0   |
| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 5 OF 13 |
| WO: 1185732      |                  |                              |               |

**LEGEND**

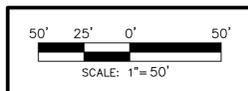
- EXISTING FEATURES**
- 265 EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - STREAM CENTERLINE
  - WETLAND
  - EXISTING TREE LINE
  - PARCEL LINE
  - EXISTING ACCESS ROADS
  - EXISTING FENCE
  - EXISTING OVERHEAD POWER LINE
  - EXISTING PIPELINE
  - EXISTING RIGHT OF WAY
  - SOIL TYPE BOUNDARY
  - SOIL TYPE

- PROPOSED FEATURES**
- LOD LIMIT OF DISTURBANCE
  - 265 PROPOSED CONTOUR MAJOR
  - PROPOSED CONTOUR MINOR
  - PROPOSED PIPELINE
  - CULVERT
  - CONDUIT OUTLET PROTECTION
  - PROPOSED FENCE
  - PROPOSED TREE LINE
  - EROSION CONTROL BLANKET
  - PROPOSED GRAVEL
  - PROPOSED CONCRETE
  - SEDIMENT BARRIER (SILT FENCE)
  - SEDIMENT BARRIER (SUPER SILT FENCE)
  - TEMPORARY SAFETY FENCE
  - STABILIZED CONSTRUCTION ACCESS
  - TEMPORARY STOCKPILE
  - RIPRAP SLOPE PROTECTION



- NOTES:**
1. THIS BASE MAP WAS PREPARED ON AERIAL TOPOGRAPHY AND ACTUAL FIELD SURVEY PROVIDED BY WILLIAMS AND ARE REFERENCED TO THE NEW JERSEY STATE PLANE DATUM.
  2. PROPERTY LINE INFORMATION PROVIDED BY WILLIAMS.
  3. PROPOSED COMPRESSOR STATION SITE WILL BE STABILIZED WITH CLEAN CRUSHED ROCK (GRAVEL).

- SOIL LEGEND:**
- MuA MOUNT LUCAS SILT LOAMS
  - NehB NESHAMINY SILT LOAMS
  - WasA WATCHUNG SILT LOAM



KEVIN MCKEON, P.E.  
NEW JERSEY PROFESSIONAL ENGINEER NO GE32586

| REVISIONS |            |     |                  |          |      |      |
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| NO.       | DATE       | BY  | DESCRIPTION      | W.O. NO. | CHK. | APP. |
| 0         | 01/15/2020 | PPH | NJDEP SUBMISSION | 1185732  | TFP  | KDM  |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION AND SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
EROSION CONTROL PLAN (2 OF 3)  
FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

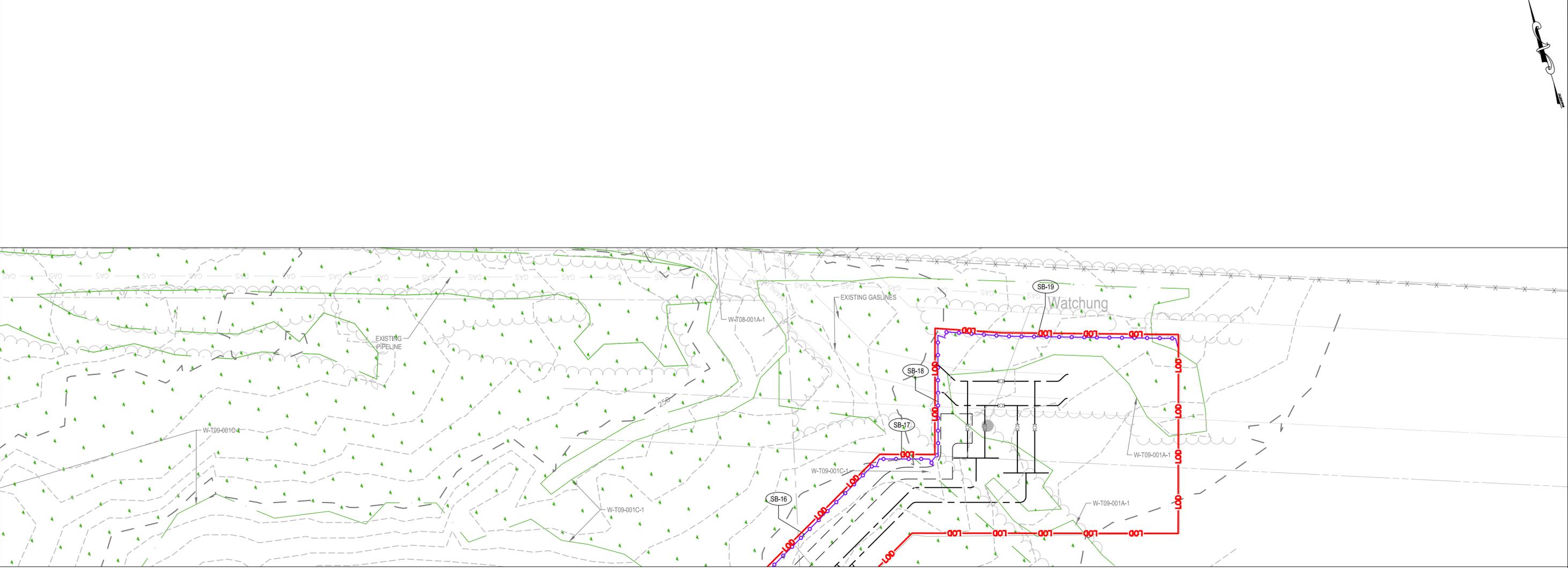
**Williams**  
GAS PIPELINE

|                  |                  |                              |               |
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SHEET 6 OF 13

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Drawing Location & Name: S:\Projects\ENV\60537393\_NESE\_CS206\900-CAD-030-E&S SHEETS\EPA Road\05-07 - E&S Plan\_CS 206 - EPA Road.dwg

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 Drawing Location & Name: S:\Projects\ENV\60537393\_NESE\_CS206\900-CAD-GIS\910-CAD-E&S SHEETS\EPA Road\05-07 - E&S Plan CS 206 - EPA Road.dwg



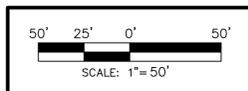
### LEGEND

| EXISTING FEATURES     |                              | PROPOSED FEATURES                   |                                     |
|-----------------------|------------------------------|-------------------------------------|-------------------------------------|
| 265                   | EXISTING MAJOR CONTOUR       | <b>LOD</b>                          | LIMIT OF DISTURBANCE                |
| - - - 265             | EXISTING MINOR CONTOUR       | - - - 265                           | PROPOSED CONTOUR MAJOR              |
| —                     | STREAM CENTERLINE            | - - -                               | PROPOSED CONTOUR MINOR              |
| WETLAND               | WETLAND                      | - - -                               | PROPOSED PIPELINE                   |
| EXISTING TREE LINE    | EXISTING TREE LINE           | - - -                               | CULVERT                             |
| PARCEL LINE           | PARCEL LINE                  | CONDUIT OUTLET PROTECTION           | CONDUIT OUTLET PROTECTION           |
| EXISTING ACCESS ROADS | EXISTING ACCESS ROADS        | X                                   | PROPOSED FENCE                      |
| EXISTING FENCE        | EXISTING FENCE               | - - -                               | PROPOSED TREE LINE                  |
| OHE                   | EXISTING OVERHEAD POWER LINE | EROSION CONTROL BLANKET             | EROSION CONTROL BLANKET             |
| EXISTING PIPELINE     | EXISTING PIPELINE            | PROPOSED GRAVEL                     | PROPOSED GRAVEL                     |
| EXISTING RIGHT OF WAY | EXISTING RIGHT OF WAY        | PROPOSED CONCRETE                   | PROPOSED CONCRETE                   |
| SOIL TYPE BOUNDARY    | SOIL TYPE BOUNDARY           | SEDIMENT BARRIER (SILT FENCE)       | SEDIMENT BARRIER (SILT FENCE)       |
| SOIL TYPE             | SOIL TYPE                    | SEDIMENT BARRIER (SUPER SILT FENCE) | SEDIMENT BARRIER (SUPER SILT FENCE) |
|                       |                              | TEMPORARY SAFETY FENCE              | TEMPORARY SAFETY FENCE              |
|                       |                              | STABILIZED CONSTRUCTION ACCESS      | STABILIZED CONSTRUCTION ACCESS      |
|                       |                              | TEMPORARY STOCKPILE                 | TEMPORARY STOCKPILE                 |
|                       |                              | RIPRAP SLOPE PROTECTION             | RIPRAP SLOPE PROTECTION             |

- NOTES:**
1. THIS BASE MAP WAS PREPARED ON AERIAL TOPOGRAPHY AND ACTUAL FIELD SURVEY PROVIDED BY WILLIAMS AND ARE REFERENCED TO THE NEW JERSEY STATE PLANE DATUM.
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**SOIL LEGEND:**

|      |                        |
|------|------------------------|
| MJA  | MOUNT LUCAS SILT LOAMS |
| NehB | NESHAMINY SILT LOAMS   |
| WasA | WATCHUNG SILT LOAM     |



KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EROSION CONTROL PLAN (3 OF 3)  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

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| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 7 OF 13 |
| WO: 1185732      |                  |                              |               |

1. SOIL EROSION AND SEDIMENT CONTROL SPECIFICATIONS

1.1 SCOPE OF WORK

CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS, AND EQUIPMENT TO CONTROL EROSION OF THE SOIL DISTURBED BY CONSTRUCTION ACTIVITIES AS INDICATED ON THE COMPANY'S DRAWINGS AND AS SPECIFIED HEREIN. IF A VARIANCE FROM THESE DOCUMENTS IS DESIRED, CONTRACTOR SHALL SUBMIT PROPOSED SUBSTITUTIONS TO COMPANY'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL. WORK INCLUDES, BUT IS NOT LIMITED TO, THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES, INSTALLATION OF PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND PLOWING OR SCARIFYING TO ATTAIN THE INDICATED SOIL CONDITIONS.

1.2 GENERAL

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE STATE OF NEW JERSEY.

1.3 EXECUTION

A. GENERAL:

WORK SHALL PROCEED EXPEDITIOUSLY, MINIMIZING THE DURATION AND AREAL EXTENT OF EXPOSURE TO EROSION FORCES. WORK SHALL BE SCHEDULED TO FOLLOW THE SEQUENCE DESCRIBED HEREIN.

B. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES:

TEMPORARY CONTROL MEASURES TO CONTROL SOIL EROSION AND SEDIMENTATION, SUCH AS GRAVELED CONSTRUCTION ENTRANCES, SEDIMENT BARRIERS AND DIVERSION TERRACES SHALL BE INSTALLED PRIOR TO ALL EARTH MOVING ACTIVITIES.

C. CLEARING:

THE MINIMUM AREA NECESSARY FOR CONSTRUCTION SHALL BE CLEARED OF TREES, BRUSH, AND OTHER VEGETATION, IF APPLICABLE. ADJACENT VEGETATION, AND WATER RESOURCES, SHALL BE PROTECTED FROM DAMAGE.

ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. IN THE STATION YARD AREA THAT WILL BE DISTURBED BY CONSTRUCTION AND IS COVERED WITH CRUSHED STONE (CHAT), CONTRACTOR SHALL REMOVE THE EXISTING STONE COVER PRIOR TO THE START OF ALL WORK IN THAT AREA. THIS EXISTING STONE SHALL BE SEGREGATED, AS IS PRACTICAL, AND STOCKPILED TO BE RETURNED FOR EROSION AND SEDIMENT CONTROL AFTER CONSTRUCTION IS COMPLETED.

D. ROUGH GRADING:

ROUGH GRADING SHALL BE AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. ROUGH GRADING SHALL BE PERFORMED TO ACHIEVE THE PROPER LEVELS, ELEVATIONS AND SLOPES REQUIRED TO ACCOMPLISH THE WORK AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.

FOR DEEP SOILS THAT WERE PREVIOUSLY IN FLOOD PLAINS AND STREAM TERRACES, 12 INCHES OF TOPSOIL SHALL BE SEGREGATED. IN ALL OTHER AREAS A MINIMUM OF 8 INCHES OF TOPSOIL SHALL BE SEGREGATED.

DURING THE CONSTRUCTION OF THE PROJECT, TOPSOIL STOCKPILES, IF APPLICABLE, SHALL BE STABILIZED AND PROTECTED WITH SEDIMENT CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE. STONES GREATER THAN 4 INCHES IN ANY DIMENSION SHALL BE REMOVED FROM THE SEGREGATED TOPSOIL.

E. EXCAVATION:

TRENCH EXCAVATION, IF REQUIRED, SHALL NOT BE LIMITED TO LENGTH OF PIPE PLACED AND BACKFILLED THE SAME DAY, AS LONG AS SOIL EROSION CONTROL MEASURES ARE INSTALLED AS INDICATED ON COMPANY'S DRAWINGS AND AS SPECIFIED HEREIN. CONTRACTOR SHALL OBTAIN APPROVAL FROM COMPANY'S AUTHORIZED REPRESENTATIVE PRIOR TO IMPORTING SOILS FOR BACKFILL OR COVER.

F. FINAL GRADING AND CLEAN-UP:

FINAL CLEAN-UP AND PERMANENT EROSION CONTROL MEASURES SHALL BE COMPLETED WITHIN 10 DAYS AFTER CONSTRUCTION IS COMPLETED, UNLESS COMPANY'S AUTHORIZED REPRESENTATIVE DETERMINES AN EXTENSION OF TIME IS NECESSARY DUE TO WEATHER AND SOIL CONDITIONS.

AREAS COMPACTED AFTER TOPSOIL REPLACEMENT SHALL BE LOOSENED BY ADDITIONAL TILLING.

CONTRACTOR SHALL REMOVE DEBRIS AND WOODY MATERIAL FROM THE CONSTRUCTION SITE AND SHALL FINAL GRADE TO LEAVE THE SOIL IN THE PROPER CONDITION FOR REVEGETATION AND OTHER PERMANENT STABILIZATION MEASURES, AS APPLICABLE.

CONTRACTOR SHALL RESTORE THE REMOVED STONE IN THE CONSTRUCTION AREA TO THE LEVEL THAT PROVIDES FOR PROPER DRAINAGE, AND SHALL REPLISH THE STONE LOST BY RELOCATING TO, AND RETURNING FROM, THE STOCKPILE.

CONTRACTOR SHALL CONSTRUCT PERMANENT DIVERSION TERRACES TO DIVERT SURFACE RUNOFF TO A STABILIZED OUTLET AS INDICATED IN COMPANY DRAWINGS, IF APPLICABLE.

IF DISTURBED, TURF, ORNAMENTAL SHRUBS, AND OTHER LANDSCAPING SHALL BE RESTORED BY THE CONTRACTOR AS INDICATED ON THE COMPANY'S DRAWINGS.

CONTRACTOR SHALL RESTORE PUBLIC AND PRIVATE ROADWAY CROSSINGS AND ACCESS POINTS TO SAFE AND ACCEPTABLE CONDITIONS RELATIVE TO PRE-CONSTRUCTION STATUS.

G. STABILIZATION:

DIVERSION TECHNIQUES AND SEDIMENT BARRIERS SHALL BE INSTALLED WHERE SHOWN IN COMPANY DRAWINGS TO CONTROL SEDIMENT MOVEMENT PRIOR TO AND DURING ALL EARTH MOVING ACTIVITIES.

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND NATURAL DRAINAGE PATTERNS RESTORED WHEN PERMANENT VEGETATION COVERS 70 PERCENT OF EACH SQUARE YARD OF DISTURBED AREA.

AREAS DISTURBED BY REMOVAL OF EROSION CONTROL MEASURES SHALL BE STABILIZED ACCORDING TO THE REVEGETATION SPECIFICATIONS.

H. MAINTENANCE:

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF EROSION CONTROL MEASURES. AFTER CONSTRUCTION, MAINTENANCE OF EROSION CONTROL MEASURES WILL BE THE COMPANY'S RESPONSIBILITY. PERIODIC OBSERVATIONS WILL BE PERFORMED BY COMPANY MAINTENANCE PERSONNEL TO IDENTIFY AREAS OF EXCESSIVE EROSION, AND ALL REQUIRED CORRECTIVE ACTIONS WILL BE IMPLEMENTED IN ACCORDANCE WITH THIS PLAN.

2. REVEGETATION SPECIFICATIONS

2.1 SCOPE OF WORK

CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS, AND EQUIPMENT FOR DISKING, HARROWING, AND SCARIFYING THE TOPSOIL, ADDING LIME AND FERTILIZER, PLACING SEED, PLACING MULCH AND MULCH BINDERS, PLANTING SHRUBS, AND SPRIGGING INDIGENOUS PLANTS AS INDICATED ON COMPANY DRAWINGS AND AS SPECIFIED HEREIN.

2.2 GENERAL

VEGETATION SHALL BE USED AS A TEMPORARY AND PERMANENT EROSION CONTROL MEASURE.

A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE LOCAL SOIL CONSERVATION DISTRICT ADMINISTRATOR OR HIS DESIGNATED AGENT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

2. REVEGETATION SPECIFICATIONS

2.3 EXECUTION

A. TILLAGE:

CONTRACTOR SHALL THOROUGHLY LOOSEN THE SURFACE OF THE ENTIRE DISTURBED AREA TO A DEPTH OF AT LEAST 6 TO 12 INCHES BY HARROWING, OR BY OTHER APPROVED METHODS UNTIL THE TILLAGE IS SATISFACTORY. TILL OR SCARIFY AREAS WHEN THE SURFACE IS GLAZED OR CRUSTED.

B. SEEDING:

CONTRACTOR SHALL SEED THE PROJECT AREA UPLANDS DURING THE SPECIFIED TIMEFRAME WITH THE FOLLOWING SEED MIX TO ESTABLISH A PERMANENT VEGETATIVE COVER:

TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS): PLANTED AT A RATE OF 150 LBS/ACRE BETWEEN MARCH 1 AND NOVEMBER 15.

CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER, OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF ¼ TO ½ INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE ¼ INCH DEEPER ON COARSE TEXTURED SOIL.

SEED AREAS ARE TO BE REVEGETATED WITHIN 6 WORKING DAYS OF FINAL GRADING.

PURCHASE SEED IN ACCORDANCE WITH THE PURE LIVE SEED (PLS) SPECIFICATIONS FOR SEED MIXES.

SEED SHALL BE USED WITHIN 12 MONTHS OF TESTING.

WHERE CRITICAL AREAS ARE LEFT EXPOSED BY CONSTRUCTION DELAYS OF MORE THAN THIRTY (30) DAYS OR WHERE UNFAVORABLE CONDITIONS PRECLUDE PERMANENT SEEDING, A TEMPORARY GROUND COVER OF QUICK GERMINATING GRASSES SHALL BE ESTABLISHED UTILIZING THE FOLLOWING SEED MIXTURE:

PERENNIAL RYEGRASS: PLANTED AT A RATE OF 40 LBS/ACRE BETWEEN MARCH 1 AND OCTOBER 1.

ALL SOIL DISTURBANCE OCCURRING OUTSIDE OF THE RECOMMENDED PERMANENT SEEDING SEASON, OR ANY BARE SOIL LEFT UNSTABILIZED BY VEGETATION, SHALL BE MULCHED. ALL SEEDING SHALL BE DONE WITHIN THE RECOMMENDED DATES. IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES, TEMPORARY EROSION CONTROL SHALL BE USED AND SEEDING OF PERMANENT COVER SHALL BE DONE AT THE BEGINNING OF THE NEXT SEEDING SEASON.

C. SOIL SUPPLEMENTS:

PRIOR TO TILLAGE SOIL SUPPLEMENTS SHALL BE APPLIED UNIFORMLY TO THE AREAS SEEDED.

ON AREAS WITH TOPSOIL, BLEND THE INITIAL SOIL SUPPLEMENTS INTO THE SOIL TO A DEPTH OF 4 INCHES BY RAKING, DISKING, HARROWING, OR BY ANOTHER APPROVED METHOD. THE BLENDING OF SUPPLEMENTS INTO THE SOIL MAY BE PERFORMED DURING THE TILLAGE OPERATIONS.

SUPPLEMENTS SHALL BE APPLIED AT THE FOLLOWING RATES:

GROUND LIMESTONE: 2 TONS/ACRE (90 LBS/1,000 SQUARE FEET)

FERTILIZER: 500 LBS/ACRE (11 LBS/1,000 SQUARE FEET) OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN

D. MULCHING

MULCHING IS REQUIRED ON ALL SEEDING.

MULCH SHALL BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE, EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER THE RATE OF APPLICATION IS 3 TONS PER ACRE.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING SHALL BE DONE BY ONE OF THE FOLLOWING METHODS ACCORDING TO THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY:

1. PEG AND TWINE
2. MULCH NETTINGS
3. CRIMPER
4. LIQUID MULCH-BINDERS

MULCH MUST BE DISTRIBUTED EVENLY WITH 85% OF THE SOIL SURFACE COVERED BY THE MULCH.

EROSION AND SEDIMENT CONTROL NOTES

3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT.
8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
18. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
23. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
25. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS. AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
27. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
30. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

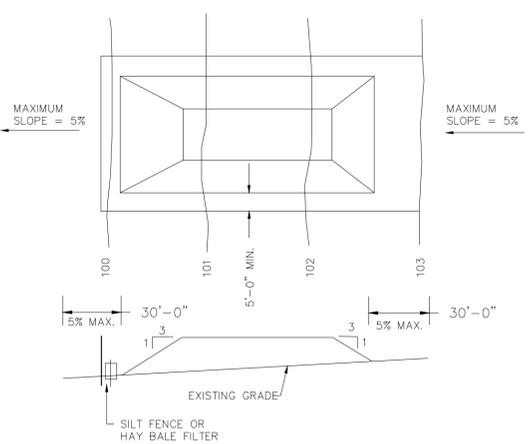


| KEVIN MCKEON, P.E. |            | REVISIONS |                  |          |      |      |  |
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EROSION CONTROL NOTES  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

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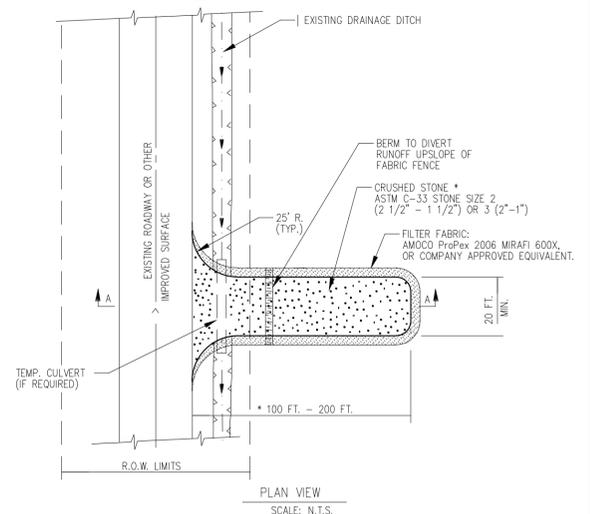
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- NOTES:
1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  2. ALL SIDE SLOPES SHALL BE 3 TO 1 OR FLATTER.
  3. ONCE SHAPED, TEMPORARY STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH TEMPORARY VEGETATIVE COVER STANDARDS SHOWN HEREON.
  4. SILT FENCE OR HAY BALE FILTER SHALL BE INSTALLED AS DETAILED HEREON.

**TEMPORARY STOCKPILE DETAIL**  
N.T.S.

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| NEW JERSEY |      |                                                                                                            |           |
| NO.        | DATE | REVISION DESCRIPTION                                                                                       | CHK. APP. |
|            |      | TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC<br>STANDARD ENVIRONMENTAL DETAIL<br>TEMPORARY STOCKPILE DETAIL |           |

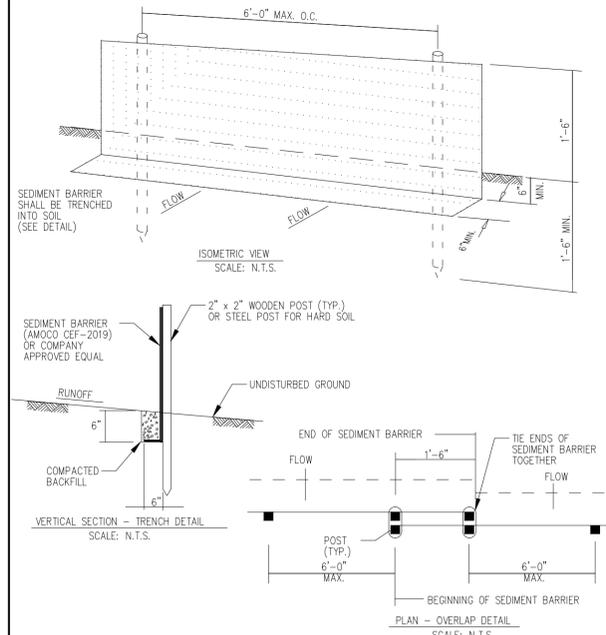


- NOTES:
1. STABILIZED ENTRANCE SHALL BE INSTALLED WHERE EQUIPMENT ENTERS AND EXITS CONSTRUCTION SITES ONTO PAVED ROADWAY OR OTHER IMPROVED SURFACE.
  2. LOCATE ALL ROADWAY CROSSINGS AND ENTRANCES TO ENSURE SAFE AND ACCESSIBLE CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.
  3. THE ENTRANCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION IN A CONDITION WHICH WILL MINIMIZE TRACKING OF SEDIMENT ONTO A PUBLIC ROADWAY.
  4. ALL SEDIMENT TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING OR SCRAPING.
  5. TOP SOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND STONE.
  6. WHERE DRAINAGE DITCH EXISTS, CONTRACTOR SHALL PROVIDE A FLUME PIPE.
  7. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND AREA RESTORED AS PART OF FINAL GRADING AND CLEAN UP. REMOVAL IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
  8. GRADE 0% TO 2% LENGTH EQUALS 100 FEET. GRADE 2% TO 5% LENGTH EQUALS 200 FEET FOR GRADE GREATER THAN 5% THE ENTIRE SURFACE SHALL BE STABILIZED WITH FABC (FINE AGGREGATE BASE CONCRETE), BASE COARSE AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

**CONSTRUCTION ENTRANCE**

TEMPORARY EROSION CONTROL MEASURE  
TO BE INSTALLED IN AREAS WHERE SOILS ARE FINE (SILT & CLAY)

|            |      |                                                                                                       |           |
|------------|------|-------------------------------------------------------------------------------------------------------|-----------|
| NEW JERSEY |      |                                                                                                       |           |
| NO.        | DATE | REVISION DESCRIPTION                                                                                  | CHK. APP. |
|            |      | TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC<br>STANDARD ENVIRONMENTAL DETAIL<br>CONSTRUCTION ENTRANCE |           |

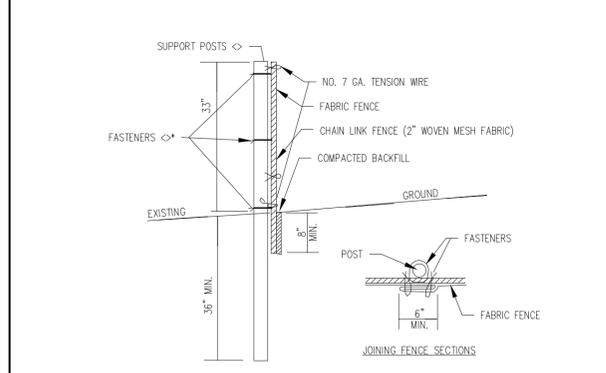


- NOTES:
1. SEDIMENT BARRIER SHALL BE INSTALLED TO FILTER SEDIMENT FROM SURFACE RUNOFF.
  2. INSTALLATIONS SHALL BE PERIODICALLY CHECKED, THE SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SEDIMENT BARRIER.
  3. SEDIMENT BARRIER SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
  4. SEDIMENT BARRIER SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SEDIMENT BARRIER.
  5. AREA DISTURBED AS A RESULT OF REMOVING THE SEDIMENT BARRIER SHALL BE RESTABILIZED BY BACKFILLING, COMPACTING, AND SEEDING IN ACCORDANCE WITH THE REVEGETATION PLAN.
  6. SEDIMENT BARRIER SHALL BE PLACED TO FOLLOW (RUN PARALLEL TO) THE CONTOURS.
  7. ON UP SLOPE INSTALLATIONS, BOTH ENDS OF THE SEDIMENT BARRIER SHALL BE TURNED AND EXTENDED UP SLOPE.
  8. SEDIMENT BARRIER SHALL BE CONSTRUCTED OF AMOCO CEF-2019 FABRIC OR A SIMILAR COMPANY APPROVED FABRIC WITH A TENSILE STRENGTH OF 50 LB./LINEAR INCH AT 20% (MAX.) ELONGATION.

**SEDIMENT BARRIER (STANDARD SILT FENCE)**

TEMPORARY EROSION CONTROL MEASURE

|            |      |                                                                                                                        |           |
|------------|------|------------------------------------------------------------------------------------------------------------------------|-----------|
| NEW JERSEY |      |                                                                                                                        |           |
| NO.        | DATE | REVISION DESCRIPTION                                                                                                   | CHK. APP. |
|            |      | TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC<br>STANDARD ENVIRONMENTAL DETAIL<br>SEDIMENT BARRIER (STANDARD SILT FENCE) |           |



- \* POSTS SPACED @ 10' MAX. USE 2 1/2" DIA. GALVANIZED OR ALUMINUM POSTS.  
\*\* CHAIN LINK TO POST FASTENERS SPACED @ 14" MAX. USE NO. 6 GA. ALUMINUM WIRE OR NO. 9 GALVANIZED STEEL PRE-FORMED CLIPS. CHAIN LINK TO TENSION WIRE FASTENERS SPACED @ 60" MAX. USE NO. 10 GA. GALVANIZED STEEL WIRE. FABRIC TO CHAIN FASTENERS SPACED @ 24" MAX. C TO C.

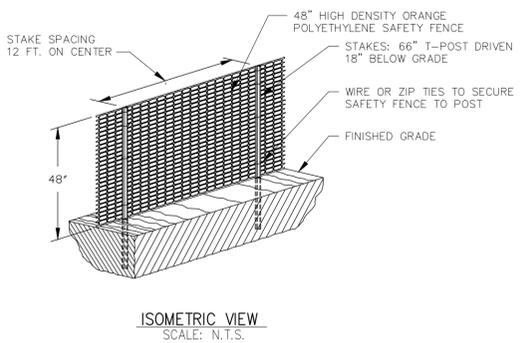
- NOTES:
1. NO. 7 GAUGE TENSION WIRE SHALL BE INSTALLED HORIZONTALLY AT TOP AND BOTTOM OF CHAIN LINK FENCE.
  2. SUPER SILT FENCE MUST BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO MAIN BARRIER ALIGNMENT.
  3. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
  4. REINFORCED SILT FENCE SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
  5. AREA DISTURBED AS A RESULT OF REMOVING THE REINFORCED SEDIMENT BARRIER SHALL BE RESTABILIZED BY SEEDING IN ACCORDANCE WITH THE REVEGETATION PLAN.

TABLE 2  
MAXIMUM SLOPE LENGTHS FOR SUPER SILT FENCE

| SLOPE - PERCENT | MAXIMUM SLOPE LENGTH (FT) |
|-----------------|---------------------------|
| 2 (OR LESS)     | 1,000                     |
| 5               | 500                       |
| 10              | 300                       |
| 20              | 200                       |
| 30              | 100                       |
| 40              | 75                        |
| 50              | 50                        |

**SEDIMENT BARRIER (SUPER SILT FENCE)**  
TEMPORARY EROSION CONTROL MEASURE

|            |      |                                                                                                                     |           |
|------------|------|---------------------------------------------------------------------------------------------------------------------|-----------|
| NEW JERSEY |      |                                                                                                                     |           |
| NO.        | DATE | REVISION DESCRIPTION                                                                                                | CHK. APP. |
|            |      | TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC<br>STANDARD ENVIRONMENTAL DETAIL<br>SEDIMENT BARRIER (SUPER SILT FENCE) |           |



- NOTES:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
  2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
  3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
  4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE POST.
  5. THE FENCE MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

**SAFETY FENCE**

PERMANENT EROSION CONTROL MEASURE

|            |      |    |                                                                                              |
|------------|------|----|----------------------------------------------------------------------------------------------|
| NEW JERSEY |      |    |                                                                                              |
| NO.        | DATE | BY | REVISION DESCRIPTION                                                                         |
|            |      |    | TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC<br>STANDARD ENVIRONMENTAL DETAIL<br>SAFETY FENCE |

Drawn By: & Date/Time: hoase, Jan 10, 2020 - 2:01pm  
Drawing Location & Name: S:\Projects\ENV\60537393\_NESE\_CS206\900-CAD-GIS\910-CAD-E&S SHEETS\EPA Road\08-13 - E&S Detail Sheets - EPA Road.dwg



KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO G232586

| REVISIONS |            |     |                  | W.D. NO. | CHK. | APP. |
|-----------|------------|-----|------------------|----------|------|------|
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| 0         | 01/15/2020 | PPH | NUDEP SUBMISSION | 1185732  | TFP  | KDM  |

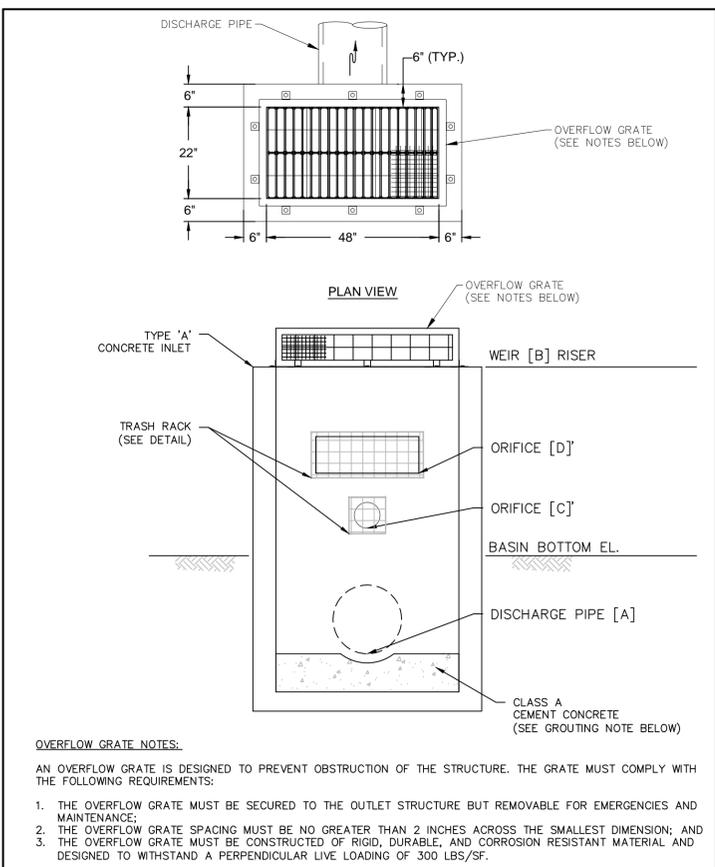
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION AND SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
EROSION CONTROL DETAILS  
FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

William's GAS PIPELINE

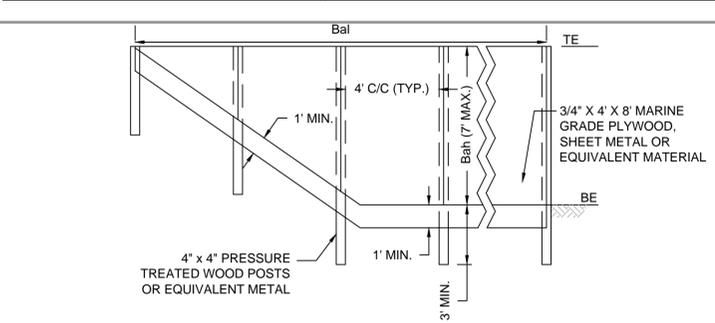
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| CHECKED BY: TFP  | DATE: 01/15/2020 | ISSUED FOR CONSTRUCTION: TBD | REVISION: 0   |
| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 9 OF 13 |
| NO. 1185732      |                  |                              |               |



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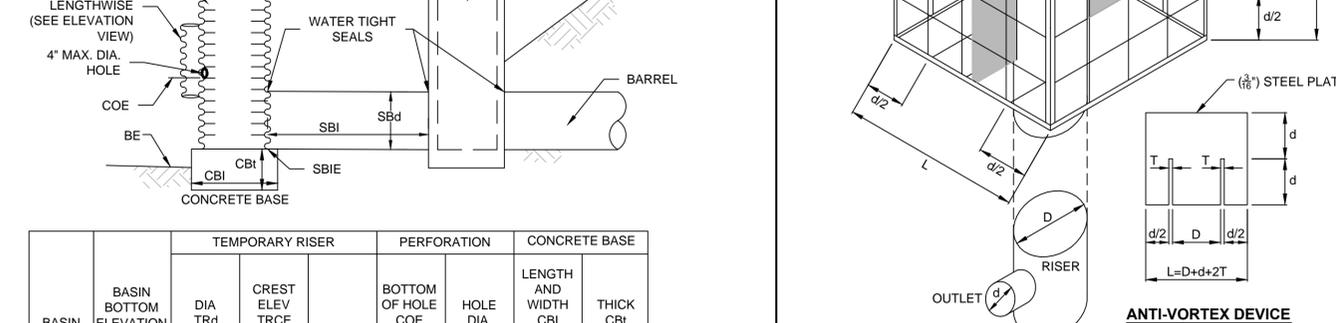
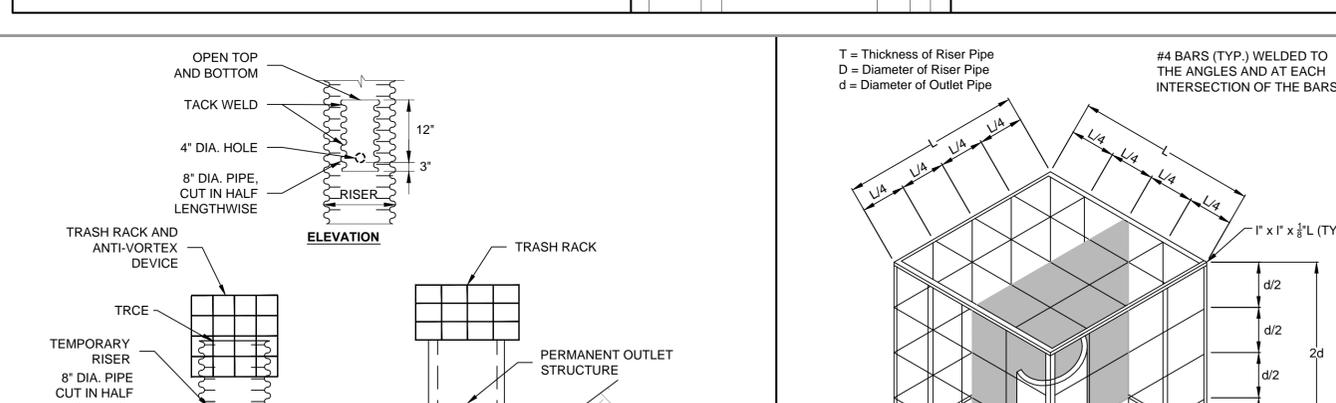
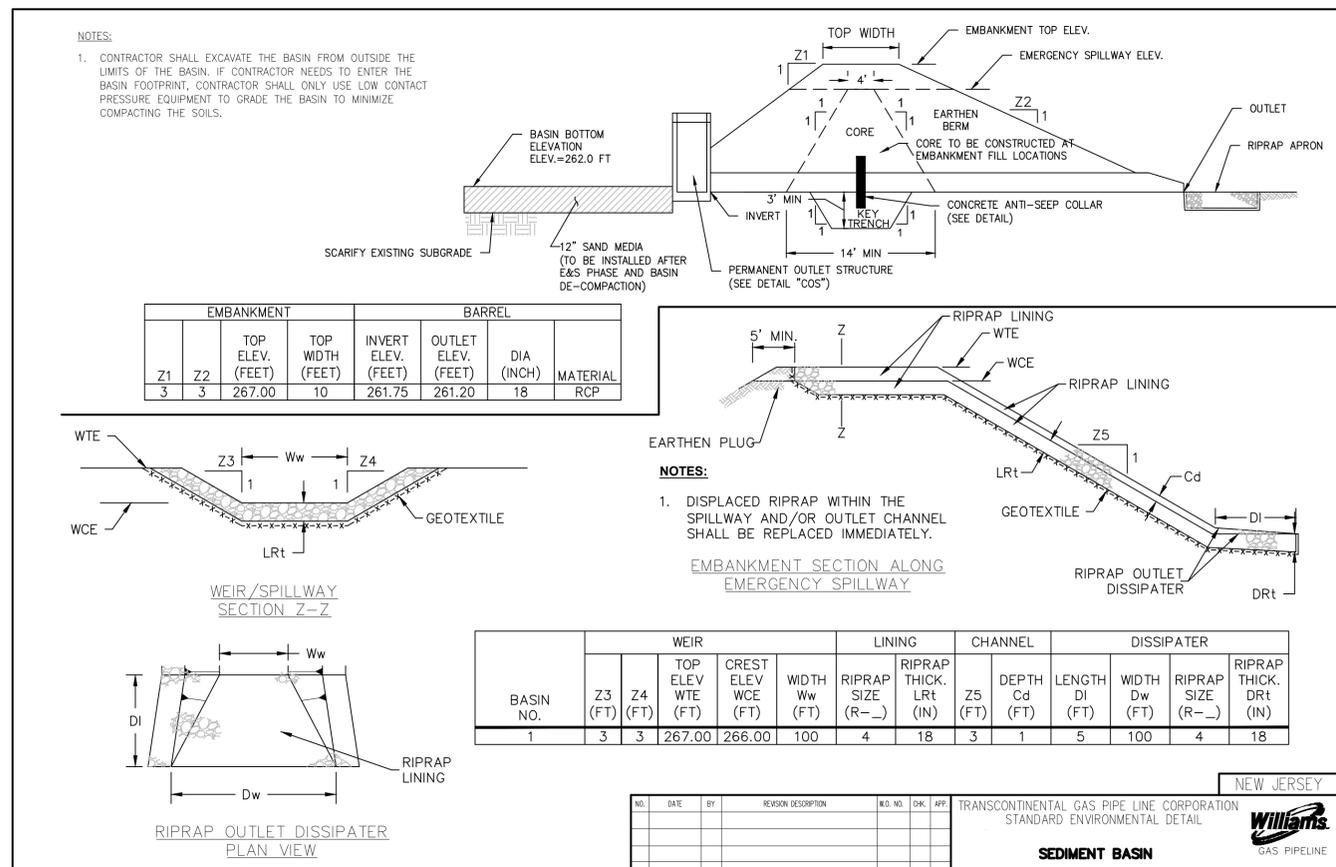
| BASIN NO.      | BASIN BOTTOM |               | CULVERT [A] OUTFALL |        | WEIR [B] RISER |            | ORIFICE [C]      |            | ORIFICE [D] |            |
|----------------|--------------|---------------|---------------------|--------|----------------|------------|------------------|------------|-------------|------------|
|                | ELEV.        | SIZE/MATERIAL | INV. ELEV.          | ELEV.  | SIZE           | INV. ELEV. | SIZE             | INV. ELEV. | SIZE        | INV. ELEV. |
| SEDIMENT BASIN | 262.00       | 18" RCP       | 261.75              | 265.50 | 4"             | 262.15     | 0.5' H<br>0.8' W | 263.25     |             |            |



| BAFFLE          |                 | TOP              | BOTTOM              |
|-----------------|-----------------|------------------|---------------------|
| LENGTH Bal (FT) | HEIGHT Bah (FT) | TOP ELEV TE (FT) | BOTTOM ELEV BE (FT) |
| 210             | 4.0             | 266.0            | 262.00              |
| 140             | 4.0             | 266.0            | 262.00              |

**NOTES:**  
1. SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY NJDEP OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.  
2. DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.  
3. REFER TO PLAN SHEET FOR BAFFLE CONFIGURATIONS.

**SEDIMENT BASIN BAFFLE**  
N.T.S.

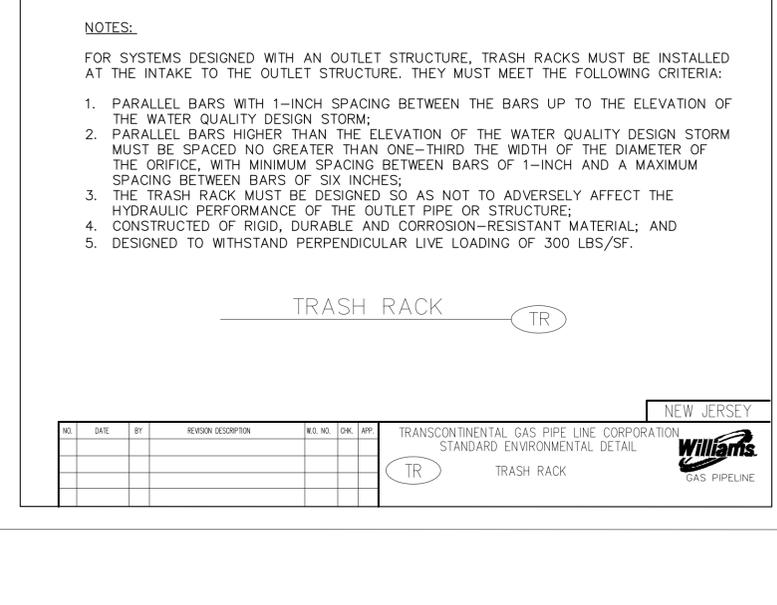
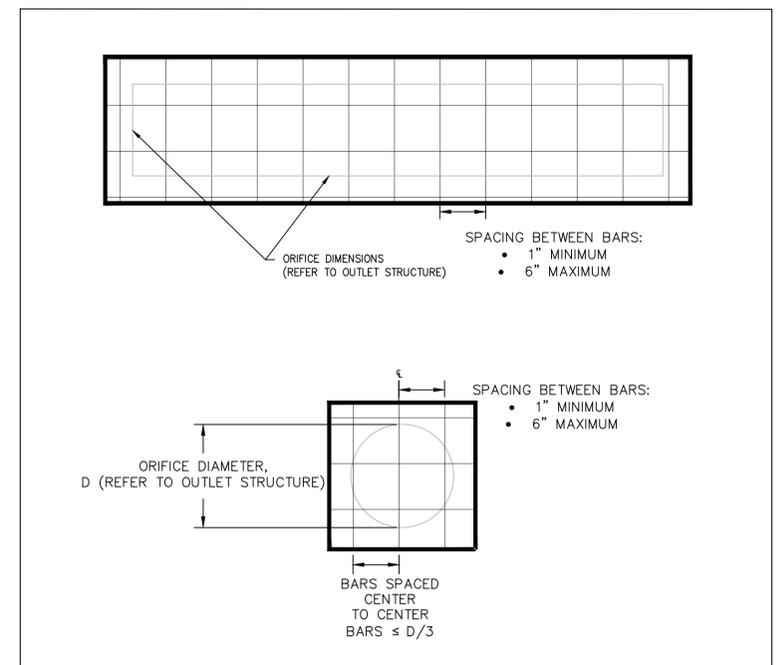


| BASIN NO. | TEMPORARY RISER           |              | PERFORATION          |          | CONCRETE BASE           |                |                           |                |
|-----------|---------------------------|--------------|----------------------|----------|-------------------------|----------------|---------------------------|----------------|
|           | BASIN BOTTOM ELEVATION BE | DIA TRd (IN) | CREST ELEV TRCE (FT) | MATERIAL | BOTTOM OF HOLE COE (FT) | HOLE DIA. (IN) | LENGTH AND WIDTH CBI (IN) | THICK CBI (IN) |
| SED       | 262.00                    | 18           | 265.00               | CMP      | 263.00                  | 4              | 48                        | 12             |

| BASIN NO. | TEMPORARY STUB |                       |                 |
|-----------|----------------|-----------------------|-----------------|
|           | DIA Sbd (IN)   | INVERT ELEV SBIE (FT) | LENGTH SBI (FT) |
| SED       | 18             | 261.75                | 5               |

**NOTES:**  
1. A MINIMUM 2 #8 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.  
2. CONCRETE BASE SHALL BE POURED IN SUCH A MANNER TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.

**SEDIMENT BASIN TEMPORARY RISER**  
N.T.S.



NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
Williams  
GAS PIPELINE

| NO. | DATE       | BY  | REVISION DESCRIPTION | NO.     | CHK | APP. |
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**TRASH RACK**

NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION AND SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
EROSION CONTROL DETAILS  
FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

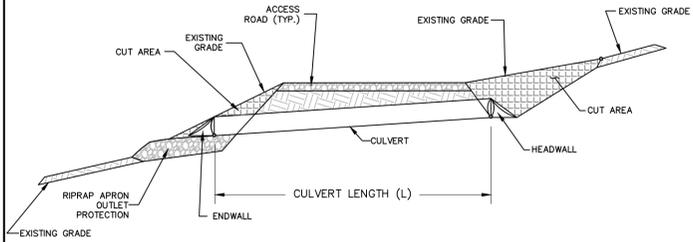
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| CHECKED BY: TPF  | DATE: 01/15/2020 | ISSUED FOR CONSTRUCTION: TBD | REVISION: 0 |
| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 11    |
| NO: 1185732      |                  |                              | OF 13       |



NEW JERSEY  
PROFESSIONAL ENGINEER NO. GE32586

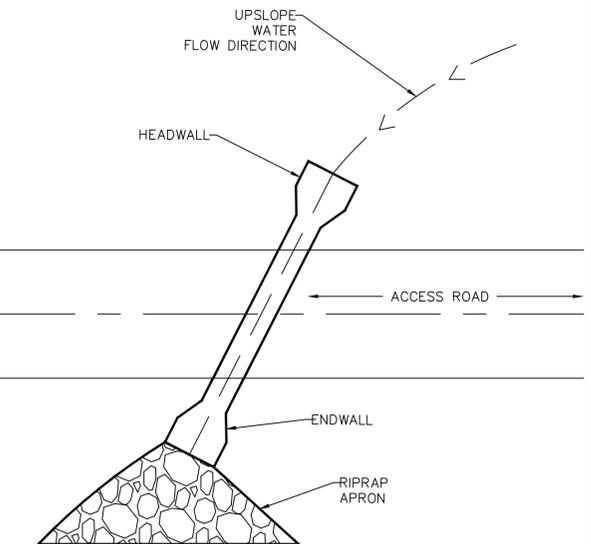
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 Drawing Location & Name: S:\Projects\ENV\60537393\_NESE\_CS206\900-CAD-GIS\910-CAD-E&S SHEETS\EPA Road\08-13 - E&S Detail Sheets - EPA Road.dwg

| CULVERT NO. | CULVERT DIAMETER (IN.) | CULVERT LENGTH, L (FT) | EMBEDMENT DEPTH, D BELOW INVERT IN ELEV. (FT.) | INVERT IN (ELEV.) | INVERT OUT (ELEV.) | PIPE SLOPE (%) | MATERIAL |
|-------------|------------------------|------------------------|------------------------------------------------|-------------------|--------------------|----------------|----------|
| 1           | 4 X 4 BOX              | 60                     | 1.0                                            | 273.00            | 272.40             | 1.0            | RCP      |
| 2           | 18 (QTY 2)             | 64                     | N/A                                            | 264.63            | 264.31             | 0.5            | RCP      |
| 3           | 24 (QTY 2)             | 68                     | N/A                                            | 266.00            | 265.00             | 1.5            | RCP      |



- NOTES:**
- CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROADWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF A SURFACE WATER WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST. STEEP SLOPES AT 3H:1V OR STEEPER SHALL BE PROTECTED AGAINST EROSION WITH EROSION CONTROL BLANKET SUITABLE FOR THE ESTABLISHMENT OF VEGETATION.
  - A DURABLE TOP DRESSING SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.
  - UPSLOPE CUT AREA SHALL BE LINED WITH EROSION CONTROL BLANKET.
  - ROADWAY SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED ROADWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.
  - BOX CULVERTS SHALL BE EMBEDDED 12 INCHES.

CROSS SECTION

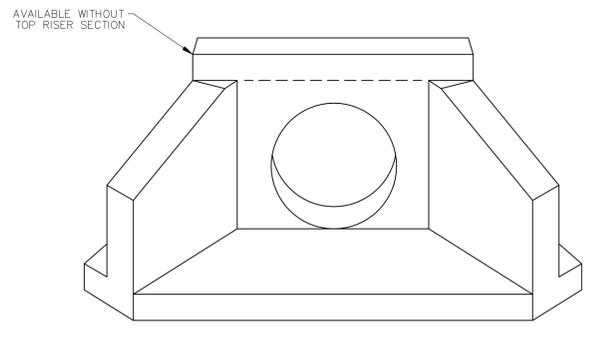


- NOTES:**
- TEMPORARY STORMWATER BYPASS BENEATH ACCESS ROAD WILL BE INSTALLED PRIOR TO EARTH DISTURBANCE AT ASSOCIATED GRAVEL WORK AREA, AS APPLICABLE.
  - STORMWATER RUNOFF FROM UPSLOPE BYPASS AREAS WILL BE DIRECTED BENEATH ACCESS ROAD AND WILL DISCHARGE OVER A RIPRAP APRON.

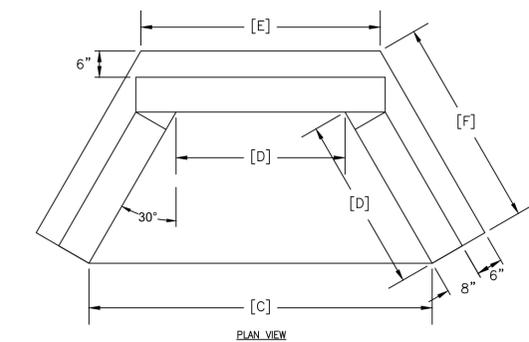
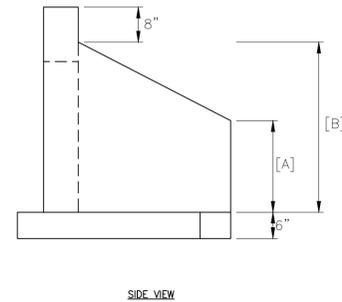
PLAN VIEW

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NEW JERSEY  
 TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 PROJECT SPECIFIC DETAIL  
 ACCESS ROAD CULVERT FOR NON-STREAM CROSSINGS

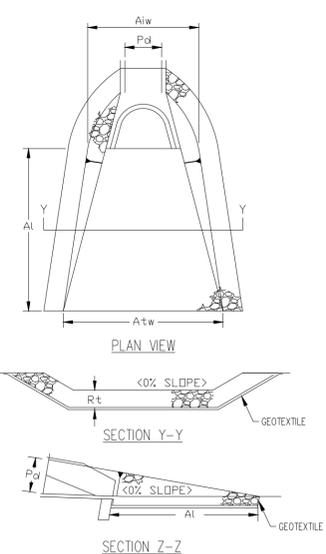


| MAXIMUM CULVERT DIA (IN) | [A] (IN) | [B] (IN) | [C] (IN) | [D] (IN) | [E] (IN) | [F] (IN) |
|--------------------------|----------|----------|----------|----------|----------|----------|
| 15                       | 11       | 21       | 48       | 24       | 38       | 34       |
| 18                       | 12       | 26       | 52       | 26       | 43       | 33       |
| 21                       | 12       | 26       | 52       | 26       | 43       | 33       |
| 24                       | 21       | 39       | 80       | 40       | 55       | 55       |
| 36                       | 21       | 39       | 80       | 40       | 55       | 55       |
| 48                       | 23       | 52       | 104      | 52       | 73       | 60       |



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NEW JERSEY  
 TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 PROJECT SPECIFIC DETAIL  
 EW TYPICAL DW ENDWALL



| NATIONAL STONE ASSOCIATION NUMBER | SIZE OF ROCKS (INCHES) |             |         | MIN THICKNESS OF RIPRAP LAYER (IN.) | TOE (FEET) |
|-----------------------------------|------------------------|-------------|---------|-------------------------------------|------------|
|                                   | MAXIMUM                | 50% AVERAGE | MINIMUM |                                     |            |
| R-1                               | 1?                     | ?           | NO. 8   | 2                                   | 1          |
| R-2                               | 3                      | 1?          | 1       | 4                                   | 1.25       |
| R-3                               | 6                      | 3           | 2       | 9                                   | 1.5        |
| R-4                               | 12                     | 6           | 3       | 18                                  | 2.5        |
| R-5                               | 18                     | 9           | 4       | 27                                  | 4          |
| R-6                               | 24                     | 12          | 6       | 36                                  | 4          |
| R-7                               | 30                     | 18          | 12      | 45                                  | 5          |
| R-8                               | 42                     | 24          | 15      | 63                                  | 6          |

- MATERIAL NOTES:**
- ROCK UTILIZED FOR RIPRAP SHALL CONSIST OF SOUND, DURABLE ROCK, INSOLUBLE IN WATER, AND RESISTANT TO WEATHERING.
  - ALL MATERIAL SHALL BE FREE OF STRUCTURAL DEFECTS, SHALE SEAMS AND ORGANIC MATTER.
  - INDIVIDUAL PIECES SHOULD BE SHARPLY ANGULAR, BLOCK SHAPED AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5.
  - NO PIECE SHALL HAVE A LENGTH EXCEEDING THREE (3) TIMES ITS WIDTH OR DEPTH.
  - EACH LOAD OF ROCK SHALL BE OF WELL-GRADED MIXTURE. A WELL-GRADED MIXTURE, AS USED HEREIN, IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE, BUT WITH A SUFFICIENT MIXTURE OF SMALLER SIZES TO FILL THE VOIDS.
  - MATERIAL SHALL MEET NSA SPECIFICATIONS - SEE TABLE.
  - IF STREAM WIDTH IS EQUAL TO OR LESS THAN 2 TIMES THE TOE WIDTH, RIPRAP SHALL BE PLACED ACROSS THE ENTIRE STREAM WIDTH.

\* THE "AVERAGE SIZE", OR d50, IS DEFINED AS A SIZE THAT IS EXCEEDED BY AT LEAST 50% OF THE TOTAL WEIGHT SHIPPED. (I.E. 50% OF THE TONNAGE SHIPPED CONSISTS OF PIECES LARGER THAN THE "AVERAGE SIZE" SHOWN IN CHART.)

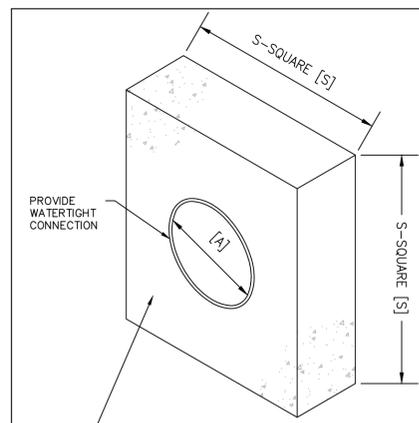
\*\* PIECES SMALLER THAN THE "MINIMUM SIZE" SHOWN SHALL NOT EXCEED 15% OF THE TONNAGE SHIPPED.

| APRON NO. | RIPRAP    |                |                | APRON INITIAL WIDTH Atw (FT) | APRON TERMINAL WIDTH Atw (FT) | CULVERT       |                       |                               |
|-----------|-----------|----------------|----------------|------------------------------|-------------------------------|---------------|-----------------------|-------------------------------|
|           | SIZE (R-) | THICK. Rt (IN) | LENGTH Lt (FT) |                              |                               | DIAMETER (IN) | EFFECTIVE HEIGHT (FT) | MIN. APRON LINING HEIGHT (FT) |
| RPA-01    | R-3       | 9              | 25             | 5                            | 12                            | 12            | 1.0                   | 0.75                          |
| RPA-02    | R-3       | 9              | 25             | 5                            | 12                            | 12            | 1.0                   | 0.75                          |
| RPA-03    | R-4       | 18             | 40             | 10                           | 20                            | 4 X 4 BOX     | 3.0                   | 2.0                           |
| RPA-04    | R-4       | 18             | 18             | 20                           | 20                            | 18 (QTY 2)    | 1.5                   | 1.0                           |
| RPA-05    | R-4       | 18             | 36             | 12                           | 12                            | 24 (QTY 2)    | 2.0                   | 1.34                          |

- NOTES:**
- WHERE THERE IS A WELL-DEFINED CHANNEL DOWNSTREAM OF THE APRON, THE BOTTOM WIDTH OF THE APRON SHALL BE AT LEAST EQUAL TO THE BOTTOM WIDTH OF THE CHANNEL; AND THE STRUCTURAL LINING SHALL EXTEND AT LEAST ONE FOOT ABOVE THE TAILWATER ELEVATION BUT NO LOWER THAN TWO-THIRDS OF THE VERTICAL CONDUIT DIMENSION ABOVE THE CONDUIT INVERT.
  - BOX CULVERTS SHALL BE EMBEDDED 12 INCHES.

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NEW JERSEY  
 TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 STANDARD ENVIRONMENTAL DETAIL  
 RPA RIPRAP APRON



| BASIN NO.    | PIPE DIAMETER (IN) [A] | S (IN) [S] | NO. OF COLLARS | DISTANCE RISER TO 1ST COLLAR (FT) |
|--------------|------------------------|------------|----------------|-----------------------------------|
| INFIL. BASIN | 18                     | 64         | 1              | 20                                |

- NOTES:**
- ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
  - COLLARS SHALL NOT BE INSTALLED CLOSER THAN 2 FEET TO A PIPE JOINT.

| NO. | DATE | BY | REVISION DESCRIPTION | NO. | CHK. | APP. |
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NEW JERSEY  
 TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 PROJECT SPECIFIC DETAIL  
 CONCRETE ANTI-SEEP COLLAR



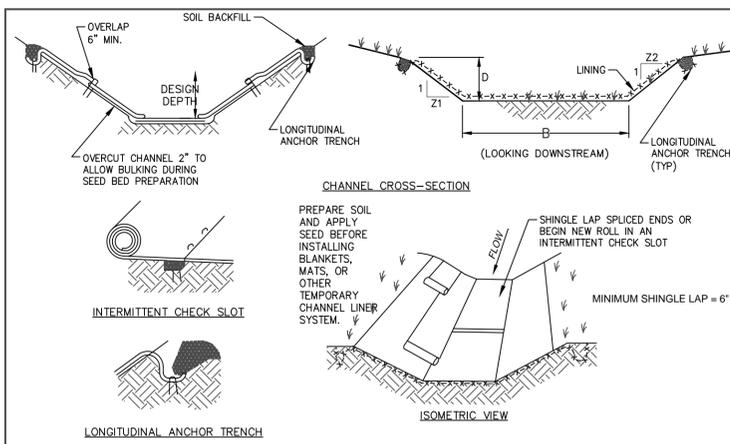
KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO. GE32586

| REVISIONS |            |     |                  |         |      |      |
|-----------|------------|-----|------------------|---------|------|------|
| NO.       | DATE       | BY  | DESCRIPTION      | NO.     | CHK. | APP. |
| 0         | 01/15/2020 | PPH | NUDEP SUBMISSION | 1185732 | TFP  | KDM  |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION AND SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 COMPRESSOR STATION NO. 206 - HIGGINS FARM ACCESS ROAD  
 EROSION CONTROL DETAILS  
 FRANKLIN TOWNSHIP, SOMERSET COUNTY, NJ

|                  |                  |                              |                |
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| DRAWN BY: PPH    | DATE: 01/15/2020 | ISSUED FOR BID: TBD          | SCALE:         |
| CHECKED BY: TFP  | DATE: 01/15/2020 | ISSUED FOR CONSTRUCTION: TBD | REVISION: 0    |
| APPROVED BY: KDM | DATE: 01/15/2020 | DRAWING NUMBER:              | SHEET 12 OF 13 |

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 Drawing Location & Name: S:\Projects\ENV\60527393\_NESE\_CS206\900-CAD-GIS\910-CAD-E&S SHEETS\EPA Road\08-13 - E&S Detail Sheets - EPA Road.dwg



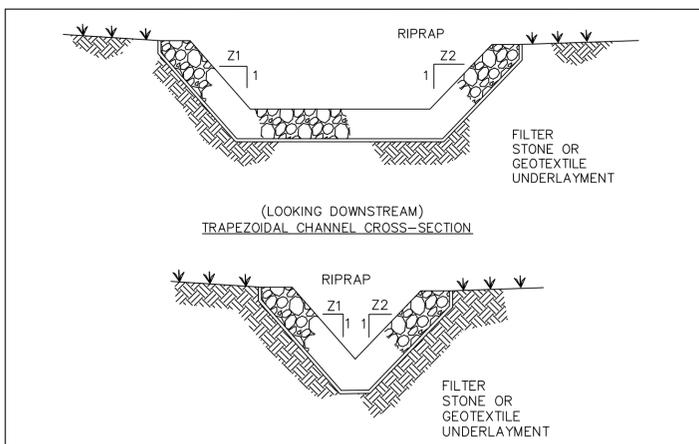
| CHANNEL | BOTTOM WIDTH B (FT) | DEPTH D (FT) | TOP WIDTH W (FT) | Z1 (FT) | Z2 (FT) | LINING    |
|---------|---------------------|--------------|------------------|---------|---------|-----------|
| 1       | 2                   | 2.0          | 18               | 4       | 4       | SC250/VEG |
| 2       | 4                   | 1.0          | 12               | 4       | 4       | SC250/VEG |
| 3       | 2                   | 1.5          | 14               | 4       | 4       | SC250/VEG |
| 5       | 2                   | 1.5          | 8                | 2       | 2       | SC250/VEG |
| 6       | 2                   | 1.5          | 14               | 4       | 4       | SC250/VEG |
| 7A      | 2                   | 1.5          | 14               | 4       | 4       | SC250/VEG |
| 10A     | 2                   | 1.5          | 14               | 4       | 4       | SC250/VEG |
| 13      | 2                   | 1.5          | 8                | 2       | 2       | SC250/VEG |

- NOTES:**
- SEE MANUFACTURER'S INSTALLATION DETAIL FOR STAPLE PATTERNS, AND VEGETATION STABILIZATION SPECIFICATIONS FOR SOIL AMENDMENTS, SEED MIXTURES, AND MULCHING INFORMATION.
  - ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
  - CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
  - NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.
  - NORTH AMERICAN GREEN (NAG) SC-250 EROSION CONTROL MATTING (OR EQUIVALENT) SHALL BE USED CHANNEL LINING.

NEW JERSEY

| NO. | DATE | BY | REVISION DESCRIPTION                                                     | REV. NO. | CHK. | APP. |
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|     |      |    | TRANSCONTINENTAL GAS PIPE LINE CORPORATION STANDARD ENVIRONMENTAL DETAIL |          |      |      |

VC VEGETATED CHANNEL



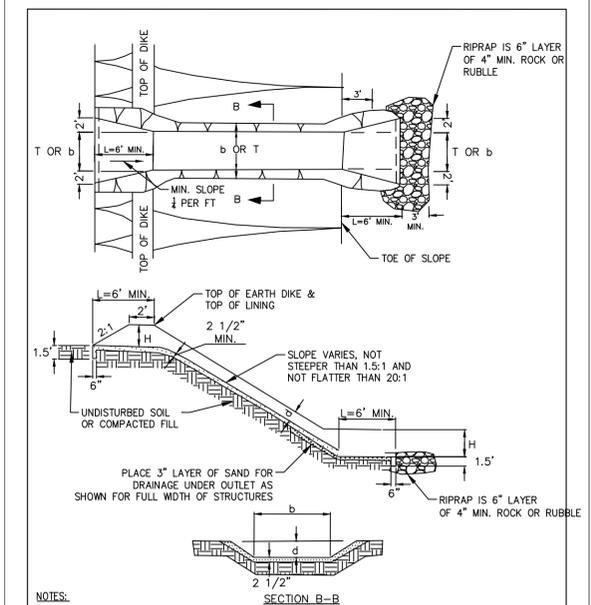
- NOTES:**
- FILTER STONE UNDERLAYMENT FOR BED SLOPES  $\geq 0.10$  FT/FT (10%) SHALL BE USED.
- CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL AFTER ROCK PLACEMENT. CHANNEL MUST BE OVER-EXCAVATED A SUFFICIENT AMOUNT TO ALLOW FOR THE VOLUME OF ROCK PLACED WITHIN THE CHANNEL WHILE PROVIDING THE SPECIFIED FINISHED DIMENSIONS.
- CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.
- DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
- THE MINIMUM ROCK THICKNESS (t) SHALL BE 1.5 TIMES THE MAX ROCK SIZE.

| CHANNEL | SHAPE (TRAPEZOIDAL OR TRIANGULAR) | BOTTOM WIDTH B (FT) | DEPTH D (FT) | TOP WIDTH W (FT) | Z1 (FT) | Z2 (FT) | LINING | THICKNESS t (IN) |
|---------|-----------------------------------|---------------------|--------------|------------------|---------|---------|--------|------------------|
| 7B      | TRAPEZOIDAL                       | 4                   | 2.0          | 20               | 4       | 4       | R-3    | 6                |
| 8       | TRIANGULAR                        | 0                   | 1.5          | 15               | 5       | 5       | R-3    | 6                |
| 9       | TRIANGULAR                        | 0                   | 1.5          | 15               | 5       | 5       | R-3    | 6                |
| 10B     | TRAPEZOIDAL                       | 2                   | 2.0          | 18               | 4       | 4       | R-3    | 6                |
| 14      | TRAPEZOIDAL                       | 20                  | 1.0          | 36               | 8       | 8       | R-4    | 12               |

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| NO. | DATE | BY | REVISION DESCRIPTION                                               | REV. NO. | CHK. | APP. |
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|     |      |    | TRANSCONTINENTAL GAS PIPE LINE CORPORATION PROJECT SPECIFIC DETAIL |          |      |      |

RIPRAP CHANNEL



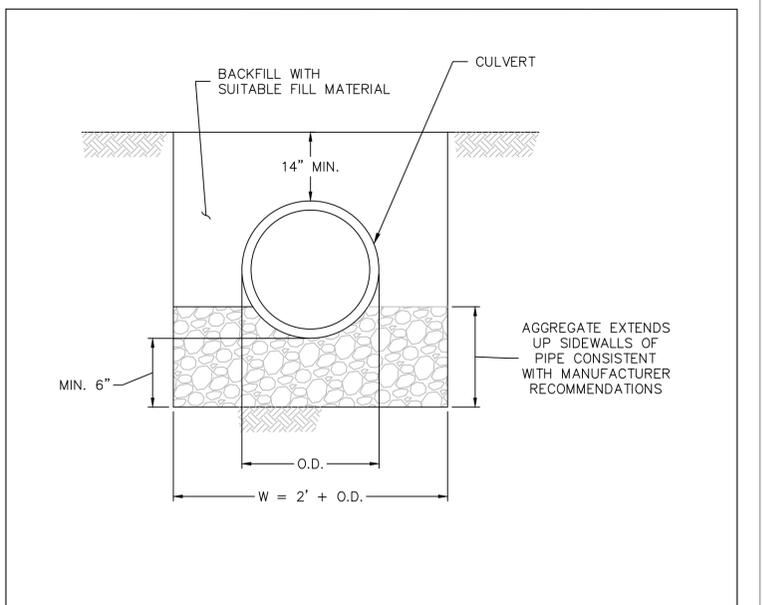
- NOTES:**
- LINING SHALL BE RIPRAP.
  - SOME TYPE OF ENERGY DISSIPATOR, SUCH AS THE ONE SHOWN ABOVE, MUST BE USED TO PREVENT EROSION AT THE OUTLET.

| RIPRAP SLOPE PROTECTION | BOTTOM WIDTH b (FT) | HEIGHT H (FT) | DEPTH d (FT) | LINING |
|-------------------------|---------------------|---------------|--------------|--------|
| 1                       | 25                  | 2.0           | 0.75         | R-3    |

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| NO. | DATE | BY | DESCRIPTION                                                        | REV. NO. | CHK. | APP. |
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RIPRAP SLOPE PROTECTION

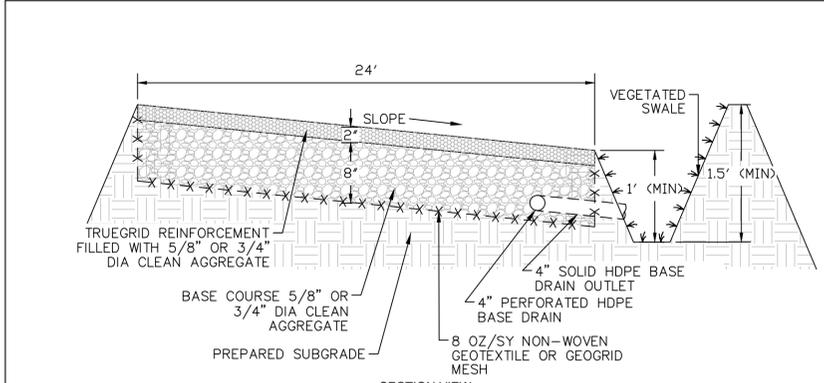


NEW JERSEY

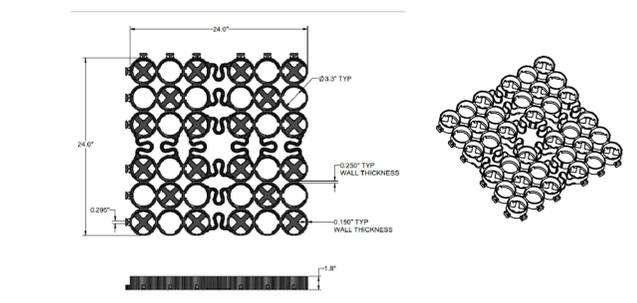
| DATE | BY | REVISION DESCRIPTION |
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TRANSCONTINENTAL GAS PIPE LINE CORPORATION PROJECT SPECIFIC DETAIL

PIPE BEDDING



- NOTES:**
- ONCE SUBGRADE HAS BEEN PREPARED, INSTALL GEOTEXTILE OR GEOGRID MESH.
  - INSTALL BASE DRAIN AND BACKFILL BASE COURSE MATERIAL IN 4-INCH LIFTS, LEVELED AND COMPACTED TO LOCK IN ANGULAR STONE.
  - INSTALL TRUEGRID REINFORCEMENT UNITS BY PLACING CELLS FACE UP, RE-CONFIGURED AND CUT AS NECESSARY TO MEET THE PROJECT GEOMETRY.
  - BACKFILL SURFACE COURSE MATERIAL BY BACK DUMPING DIRECTLY FROM DUMP TRUCKS OR FROM BUCKETS MOUNTED TO TRACTORS. HAND SHOVELING IS ALSO ACCEPTABLE. SPREAD MATERIAL USING STEER LOADERS, POWER BROOMS, BLADES, FLAT-BOTTOMED SHOVELS, AND/OR WIDE "ASPHALT RAKES" TO FILL THE CELLS. ONCE CELLS ARE AT CAPACITY, COMPACT AGGREGATE WITH A ROLLER OR VIBRATING PLATE.
  - ALL AGGREGATE SHALL BE UNIFORMLY GRADED AND CLEAN PRIOR TO INSTALLATION.
  - REFER TO PLANS FOR VEGETATED SWALE LOCATIONS AND DETAILS FOR LINING AND DIMENSION REQUIREMENTS.
  - BASE DRAIN SHALL DAYLIGHT A MINIMUM OF 200' FEET OF LINEAR ROAD AT A MINIMUM SLOPE OF 0.5%



**TRUEGRID BLOCK REFERENCE VIEW**  
N.T.S.

PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. RECONFIGURE AS NEEDED. NO EXTRA TOOLING OR ACCESSORIES REQUIRED.

NEW JERSEY

| DATE | BY | REVISION DESCRIPTION |
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TRANSCONTINENTAL GAS PIPE LINE CORPORATION PROJECT SPECIFIC DETAIL

REINFORCED GRAVEL ACCESS ROAD

**AECOM**  
625 WEST RIDGE PIKE, SUITE E-100  
CONSHOHOCKEN, PA 19428  
(610) 832-3500

KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO G232586

| REVISIONS |            |     |                  |          |      |      |
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| NO.       | DATE       | BY  | DESCRIPTION      | W.D. NO. | CHK. | APP. |
| 0         | 01/15/2020 | PPH | NUDEP SUBMISSION | 1185732  | TFP  | KDM  |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION AND SEDIMENT CONTROL PLAN  
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NO: 1185732