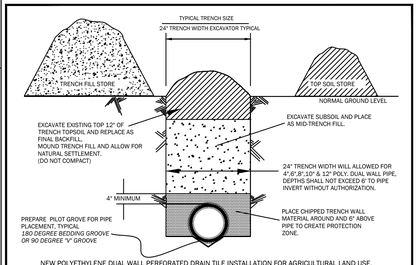
DETAILS SHOWN ON THE CIVIL DETAIL SHEETS THAT ARE NOT NOTED IN THE PLANS ARE PROVIDED FOR REFERENCE ONLY AND SHOULD BE UTILIZED, IF NEEDED. REFER TO SHEET C-200 GENERAL NOTES FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO USING ANY ALTERNATIVE MEASURES UNLESS OTHERWISE NOTED IN THE PLANS AND GENERAL NOTES.

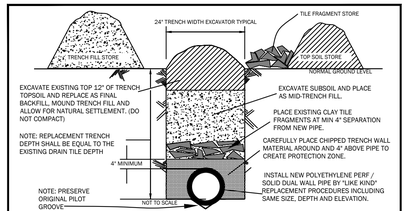


NEW POLYETHYLENE DUAL WALL PERFORATED DRAIN TILE INSTALLATION FOR AGRICULTURAL LAND USE.

1. EXCAVATE 12" (+-) TOPSOIL, STORE SEPARATE AND SAVE FOR FINAL BACKFILL.
2. EXCAVATE SUBSOIL TO PROPOSED GRADE LINE, STORE SEPARATE AND SAVE FOR MID-TRENCH FILL.
3. HAND EXCAVATE DRAIN TILE PILOT GROVE TO PROPOSED LASER GRADE, AND INSTALL NEW POLYETHYLENE PERFORATED DUAL WALL DRAIN TILE (ADS N-12 OR EQUAL) *(FILTER PIPE WRAP OPTIONAL FOR SANDY SOILS)*
4. PLACE "HAND SPADED CHIPPED" CLEAN TOP SOIL MATERIAL AROUND NEW PIPE TO CREATE BEDDING SUPPORT AND PIPE PROTECTION.
5. BACKFILL EXCAVATION TRENCH WITH MID TRENCH MATERIAL AND REPLACE SAVED TOP SOIL AS FINAL BACKFILL.

TYPICAL SINGLE WALL POLYETHYLENE PERFORATED DRAIN TILE INSTALLATION BY AGRICULTURAL DRAINAGE TRENCHERS IN ACCORDANCE WITH A.S.T.M. F-405, F-449 OR F-667, AA.S.H.T.O. M-252, OR M-294. INSTALLATION PROCEDURE MAY BE ALLOWED ONLY BY DIRECTION OF THE RESIDENT PROJECT ENGINEER.

EX. CLAY DRAIN TILE REPLACEMENT SECTION
FOR COMMERCIAL SOLAR ENERGY PROJECTS
EXISTING AGRICULTURAL DRAIN TILE REPLACEMENT SECTION
TYPICAL FIELD INSTALLATION FOR POLYETHYLENE DUAL WALL DRAIN TILE
TYPICAL SECTION NO. 20A



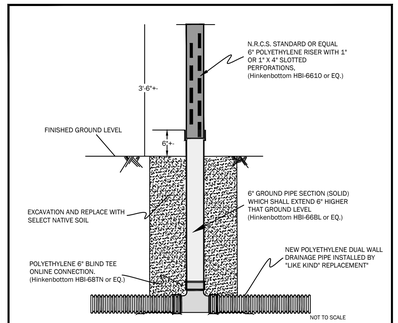
EXISTING CLAY DRAIN TILE REPLACEMENT PROCEDURE

1. EXCAVATE 12" (+-) TOPSOIL, STORE SEPARATE AND SAVE FOR FINAL BACKFILL.
2. EXCAVATE SUBSOIL TO TOP OF EXISTING TILE, STORE SEPARATE AND SAVE FOR MID-TRENCH FILL.
3. EXCAVATE CLAY PIPE, STORE FRAGMENTS SEPARATE AND SAVE FOR BURY FILL. (REMOVE POLYETHYLENE DRAINAGE PIPE FROM SITE)
4. CAREFULLY PRESERVE ORIGINAL DRAIN TILE PILOT GROOVE. CLEAN WITH HAND SHOVEL AND INSTALL NEW POLYETHYLENE SOLID or PERFORATED DUAL WALL PIPE WITH IN EXISTING PILOT GROVE POSITION. (ADS N-12 OR EQUAL) (A.S.T.M. F-405 OR F-677, AA.S.H.T.O.M. 252 OR M-294). INSTALLATION BY "LIKE KIND PROCEDURES INCLUDING SAME PIPE SIZE AT SAME LOCATION AND ELEVATION. *(PIPE SIZE MY BE MODIFIED IF APPROVED BY RESIDENT ENGINEER OR PROJECT OWNER)*
5. PLACE "SPADE CHIPPED" CLEAN TRENCH WALL MATERIAL AROUND AND 4" ABOVE NEW PIPE TO CREATE BEDDING SUPPORT AND PIPE PROTECTION.
6. BACKFILL EXCAVATION TRENCH IN FOLLOWING SEQUENCE.
   (1)- EXISTING CLAY FRAGMENTS OVER BEDDING SOIL.
   (2)- BACKFILL TRENCH SUBSOIL.
   (3)- BACKFILL FINAL LIFT WITH SAVED TOPSOIL.
7. FINAL RECORD MAPPING SHALL BE PREPARED INCLUDING GPS SURVEY LOCATION.

SAFETY NOTE: OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

NOTE: ALL EXISTING UNKNOWN LATERAL DRAIN TILES ENCOUNTERED DURING "LIKE KIND" REPLACEMENT PROCESS SHALL BE REPLACED BY SAME PROCEDURE

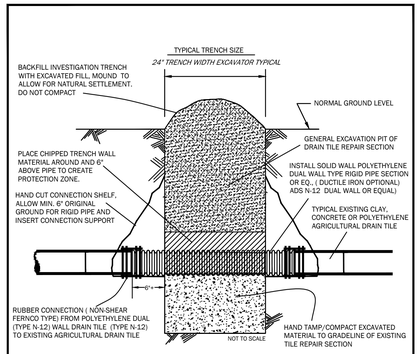
EXISTING DRAIN TILE REPLACEMENT SECTION
FOR COMMERCIAL SOLAR ENERGY PROJECTS
EXISTING AGRICULTURAL DRAIN TILE "LIKE KIND" REPLACEMENT
TRENCH REPLACEMENT INCLUDING EXISTING LATERALS BY MID SIZE EXCAVATOR
TYPICAL SECTION NO. 20A/1



NOTE: THESE TYPICAL STANDARD SPECIFICATION MAY BE FIELD ADJUSTED WITH THE PROPER AUTHORIZATION FROM THE PROJECT MANAGER, ALL CHANGES SHALL BE RECORDED ON FINAL AS-BUILT DRAWINGS.

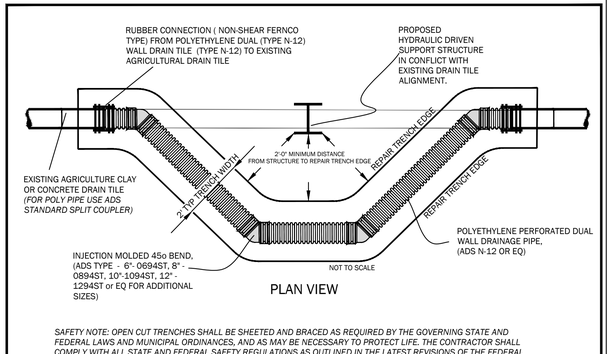
SAFETY NOTE: OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

6" OBSERVATION RISER STRUCTURE
FOR COMMERCIAL SOLAR ENERGY PROJECTS
6" ONLINE RISER FOR IDENTIFICATION AND OBSERVATION
INSTALLED AT PARCEL INGRESS AND EGRESS LOCATIONS
TYPICAL SECTION NO. 27D



SAFETY NOTE: OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

EXISTING CLAY DRAIN TILE REPAIR SECTION
FOR COMMERCIAL SOLAR ENERGY PROJECTS
EXISTING AGRICULTURAL DRAIN TILE REPLACEMENT SECTION
TYPICAL REPAIR SECTION FOR DRAIN TILE "BLOWOUT" OR FAILURE
DRAINAGE TYPICAL SECTION NO. 62A



PLAN VIEW

SAFETY NOTE: OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

EXISTING DRAIN TILE BYPASS REROUTE
FOR COMMERCIAL SOLAR ENERGY PROJECTS
EXISTING DRAIN TILE REROUTE WHICH IS IN CONFLICT WITH FIXED IMPROVEMENT
INSTALLED AS MODIFICATION TO ORIGINAL ROUTE
TYPICAL SECTION NO. 360D

1 EXISTING CLAY DRAIN TILE REPAIR SECTION DETAILS
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PRELIMINARY - NOT FOR CONSTRUCTION

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SCHUYLER COUNTY
24638 ADAMS RD
FREDRICK, IL 62639

Drawing Title:
CONSTRUCTION DETAILS
Drawn by: LAD
Approved by: APK

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