

TERRE ARCH - GENERAL NOTES:

THE TERE ARCH * PATENT PRINNE 11/586.437 (10-30-2007)] UNDERSORUND DETENTION SYSTEM. AS DESORED, MANHFORTIERD AN INSTALLE OF TEREF HILL STORMANTER SYSTEMS. CONTACT: TEREF HILL, STORMANTER SYSTEMS. AND THE HILL STORMANTER SYSTEMS AT P.O. 80X 10, 485 INSARTEMAND WILLEY ROAD, TERRE HILL, PA 17:581 (PHONE 1-800-242-1509) OR WINNITERESTORMACOM.

DEFORMED STEEL RENFORCING CONFORMS TO ASTM A615 GRADE 60. WELDED WIRE FABRIC CONFORMS TO ASTM A185. DEFORMED WELDED WIRE FABRIC OF EQUAL SIZE MAY BE SUBSTITUTED FOR SMOOTH WELDED WIRE FABRIC AND SHALL CONFORM TO ASTM A497.

PA THREADED INSERTS MANUFACTURED BY PENNSYLVANIA INSERT CORPORATION

PEGGON & ANTI-SCOUR MATS SHALL BE INSTALED INDER DISTRIBUTION MANFOLOS AT EACH RELIGIT PER LOCATION ERGOSON MAT TO BE TENSOR BY LOCATION ERGOSON MAT TO BE TENSOR BY LOCATION ERGHT ITENANCIOSES, NR. OR COULY, MATI-SCOUR MAT TO BE MOBEN FITRATION MEDIA, 58500 WHITE-CC-HONECOMB FILTER AS MANUFACTURED BY TENCHE MICOLON, OR COMAL FRASION MAN MATI-SCOUR MATS SUPPLED BY LERGE MANUFACTURES AND INSTALED BY OTHERS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.

EXCAVATION, COMPACTED STONE BASE, BACKFILL AND GRADING BY OTHERS.

when a terre kleen hydrodynamic separator is placed in front of each underground storage system no clean out or mantenance is amticpated, as one as the terre kleen hydrodynamic separator is properly mantained.

XCAVATION, DEWATERING AND SHORING OF EXCAVATION WILL BE BY OTHERS, THIS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AS PROVIDED BY "NGINEER AND OSHA REQUIREMENTS."

UNLESS OTHERWISE SPECIFIED SUB-GROUG SHALL BE ESTABLISHED AS SHOWN ON THE DEBAUMORS UNDERSTORE SOIL AND SUB-GROUGH STREAM, SHALL HAVE DESIGN LOODING OF NOT LESS THAN 2,000 POUNDS PER SOLMRE FOOT (PSF), AS ESTABLISHED BY ENGNHEER; UNMAMAM STONE BED SHALL BE 5" OF #5 STONE, IOPPED WITH 1" OF #6 STONE) LEVEL TO $\pm 1/4$.

THE TITERE ARCH IN UNDERGROUND STORAGE SYTSTEM SHALL BE WARRANTED FOR 4 TYBERS FROM DATE OF SUBSTAINTIAL COMPLETION FOR LABOR AND MATERIAL IN THE EVENT THAT THE MATERIAL IS NOT FREE FROM DEFECTS.

THE "TERRE ARCH" IN PREDAST CONCRETE UNDERGROUND STORAGE SYSTEMS DESCRIPED, MANUFACURED AND INSTALLED BY TERRE HILL STORMWATER SYSTI APPROVED EQUAL TO MEET: STORAGE CAPACITY REQUIREMENTS, AND HS-25 REQUIREMENTS. TEMS OR LOADING

CONCRETE $f_{\rm c}=5,000$ PSI AT 28 DAYS; WITH ASTM C-33 #57 OR #67 COARSE AGGREGATE AND FIBER REINFORCING.

OPENINGS AROUND INFLUENT AND EFFLUENT PIPES SHALL BE GROUTED IN FIELD BY OTHERS. NON-SHRINK GROUT SHALL BE USED.

UNI LIFT ANCHORS MANUFACTURED BY UNIVERSAL FORM CLAMP COMPANY, OR EQUAL UNI LIFT ANCHORS TYPICAL FOR HANDLING.

JOINT SEALING MATERIAL SHALL BE BITUMEN CONSEAL CS-102B JOINT MATERIAL MANUFACTURED BY CONCRETE SEALANTS, INC. AND CONFORMS TO FEDERAL SPECIATION SSS-S-210A, JOINT SEALANT LIMIST BE INSTALLED IN ACCORDANCE WITH CONCRETE SEALANTS, INC. RECOMMENDATIONS.

MANHOLE FRAMES AND COVERS SUPPLIED BY TERRE HILL STORMWATER SYSTEMS.
NSTALLATION AND GRADE ADJUST BY OTHERS, MANHOLE FRAMES AND COVERS TO BE
DUIRIN MODEL No. HERHA'S, EAST JORDAN IRON WORKS MODEL No. 1310, OR EQUAL
COVERS TO BE MARKED "STORM".

IT IS RECOMMENDED THAT AN INSPECTION BE MADE ON A QUARTERLY BASIS AND AFTER EACH SOMPLOWN TRANFALL EDEN. ANY ACCUMULATED DEBRS/SEDIMENTATION THAT MEMBER THE PERFORMANCE OF THE SYSTEM IS TO BE REMONED THROUGH THE PROVISION OF FULL ACCESS INTO ALL AREAS OF THE UNDERGROUND STORAGE SYSTEM.

FINISHED GRADE EL: 508.15 TO 511.45

TERRE ARCH PERFORMANCE, DESIGN & INSTALLATION SPECIFICATIONS

The Terre Arch is a precast concrete modular roman arch structure consisting of four connected parallel volulis for subsurface storage of stormwater for; accessory components such as finitive and inflow and outline structures; ap, manifolds are designed, angineered, and manufactured to match specific needs:

1. Detention for controlled discharge through an outliet control structure;

2. Infiltration to recharge the ground water.

3. ISS-25 load ording on the crown of the arch; no minimum cover or fill requirements, or requirement for lod bearing stone between or above structure; direct access for heavy installation equipment, including stone fills are produced in the control of the structure; and the product of the fill is required prior to imposing HS-25 loading on the system);

4. Maximum cover up to 20. If, (welfy sub-beas depth and oast bearing).

5. Water-Quality-Teatment device should be placed in front of the Terre Arch to prevent entry of sediment, oil, agrees, littler, and debts to the maximum extent professione; fill repute the structure.

6. Self cutt. of storage in customary installation, i.e. valleys betteen arches filled with stone to the top of the buttesses (40% void space typical with stone).

9. Each structure is less than 16,000 lbs. collowing shipment of 3 structures per truck; placement from truck into the prepared excavation by light crone or loader.

10. No minimum cover or fill requirements allow for shallow installation conditions.

11. Ventilation and draining orlices in top and valley areas of structure.

12. Comministant in the legs of the arches to allow flow between all sections; making leg with stone parimeter will have no cross flow hole;

13. Erosion making is required at all influent place;

14. No requirement for geotectie separation layer below lase filleration or geotectie where sitt migration from the sides or top into the stone is void space is possible;

14. Should be the confroator, which shall be the property of manufacturer shall loan the lifting hardware to the confro

PRODUCT INSTALLATION PROCEDURES

17. Contractor shall excande according to the latest dated approved drawing set, dewater and share in accordance with project specifications, as provided by Engineer.

18. Unless otherwise specified, sub-grade shall be established as shown on the Drawings Underlying soil and sub-grade material shall have design loading of not less than 3000 pounds per square load (sail), as established by Engineer; (typical states bed shall be less than 3000 pounds per square load (sail), as established by Engineer; (typical states bed shall be less than 3000 pounds per square load (sail), as established by Engineer; (typical states bed shall be less than 3000 pounds per square load (sail), as established by Engineer; (typical states bed shall be 12 or £8 ASFITO (1/2 states) level to plus or minus 3/8 incht;

19. Arches shall be placed within a nominal 8-0" by 20'-0" matrix.

20. HtsS Recommend anchoring of the arches dystem relative the influent manifolds. Place riser sections on manifolds.

21. Install perimeter drain caps prior to final placement into the standing leg opening. Two required per perimeter legs.

22. Place Conseal on the joints between the arches to prevent migration of fines into the soil shall be filled with at least 12 inches of stone.

23. Place Conseal on the joints between the arches to prevent migration of fines into the state with obut 0. Inches of stone above the buttress elevations.

23. Black whorting rolline?272/7ag eq?29AFjuipment to stabilize the top stone and settle the arches into the sub-base.

24. Bladicze stone on orth the arches with obut 0. Inches of stone above the buttress elevations.

25. Place additional soil amendments and grading resultments.

26. Contactor's shift in the state vides.

PRODUCT SUBSTITUTION PROCEDURES

No underground stormwister storage system shall be approved as an equivalent substitution for a ferre Arch system unless the Engineer shall receive and approve drivings and specifications stomped and send by a professional engineer registered in the state wherein the project is located showing the following: a project specific scoring octulations clearly showing that the unit meets or exceeds the Performance & Design Specifications of the Terre Arch.

1. When a Terre Kleen Hydrodynamic Separator is placed in front of the Terre Kerb System on Jean out or monitenence is anticipated, as long as the Ierre Kleen Hydrodynamic Separator is repetly mointained; 2. Inspection can be accomplished from grade with proper equipment by entry through the grade

opening(s); 3. System shall contain sufficient Distribution Manifolds to allow entry for inspection each arch or each Terre Arch.

SUBJECT TO CHANCE WITHOUT NOTICE.
VERIFY LATEST INFORMATION WITH TERRE HILL STORMWATER SYSTEMS (800)-242-1509

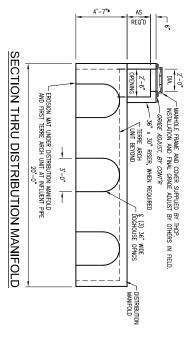
SAMPLE LAYOUT NOT FOR CONSTRUCTION

SECTION

SUBGRADE SOIL PER DESIGN ENGINEER REQUIREMENTS

- EL:??

TOP OF WEIR EL: ?? TOP OF BUTTRESS EL: ??



REVISIONS E ARCH™ [Patent Pending 11/569,437 (10-30-2007) RECAST TERRE ARCH 48 INCH MODEL" (AUSIG PENNA)
RETENTION / DETENTION FACILITY Improving your world. TERRE HILL

ВҮ:ндв ENG'R: CONT'R:

THS

FILE NO.

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