



## SECTION A. GENERAL SEQUENCE OF CONSTRUCTION

These guidelines shall apply to all work consisting of all temporary and/or permanent measures to control water pollution and soil erosion as may be required during the construction of the project. In general, all construction activities shall proceed in a workmanlike manner with the stated intent to prevent or minimize erosion and sedimentation from entering the State's waters, inland wetlands, watercourses, water bodies or conduit carrying surface water. The contractor shall limit, insofar as possible, the surface area of earth materials exposed by construction methods, and to immediately provide permanent and/or temporary pollution control measures to stabilize exposed areas and prevent erosion and sedimentation under the best practicable or possible erosion conditions throughout the construction limits. No construction shall commence until the herein stated soil erosion and sediment control plan has been certified and those control measures depicted therein have been fully installed and are functional. Also no work is to proceed until the Department of Energy and Environmental Protection permit DEE-EPED-GP-00000000 has been obtained.

## SECTION B. GENERAL CONSTRUCTION NOTES

2. Material Storage and Vehicular Traffic Restrictions
- Stockpiling of materials shall be confined within the areas of construction disturbance. Material stockpiles shall be maintained in a safe and workmanlike manner. Trash containers and collection points shall be maintained throughout the construction period. All refuse is to be removed to an appropriate facility.
  - Vehicular movement shall be limited to established construction access points and parking areas. Unnecessary encroachment of construction equipment or other vehicles shall not be allowed in non-construction portions of the property. Vehicular access to areas outside the areas of disturbance shall be restricted to the minimum necessary to perform essential and required construction activities.
3. General Notes
- All construction methods to conform to Conn. Department of Transportation Standards and Specifications for Roads, Bridges and Incidental Construction (Form 817) and/or the Town of Lisbon standard specifications.
  - A pre-construction meeting shall be conducted prior to the commencing of all construction activities.
  - Any unsuitable materials within areas of pavement are to be removed and replaced with suitable material as directed by the Owner.
  - The Town of Lisbon may require changes to the plans in order to address problems that may arise due to field conditions.
3. Construction Notes
- All existing utilities are approximate only. It is the responsibility of the contractor to verify all locations prior to construction. "Call Before You Dig" is to be notified prior to any construction. (800-922-4455). The contractor is solely responsible for confirming the location of existing utilities prior to construction and for coordinating connection of existing and proposed utilities.
  - The contractor is responsible for obtaining all applicable construction permits, prior to construction, from the State of Connecticut, Town of Lisbon along with any other applicable agencies. All agencies are to be notified at least 48 hours prior to construction. A pre-construction meeting is to be held with the Town Planner prior to the commencement of any disturbance or construction.
  - The E & S Narrative contained in these plans are considered part of the design of this project and are to be consulted as construction details.
  - All erosion and sedimentation control measures applicable to a given area of construction shall be in place and approved by Town Staff prior to the commencement of work in that area.
  - All upland areas of proposed fill shall be finish graded with 4" of topsoil and seeded with an appropriate seed mixture based on recommendation appropriate for use and season as delineated by the Soil Erosion and Sedimentation Control Narrative.
  - All clearing limits shall be physically marked in the field and approved by Town staff prior to any clearing or grubbing. The contractor shall be responsible for replacement plantings suitable to Town of Lisbon Planning staff for any significant encroachment beyond clearing limits.
  - All proposed catch basins shall be hooded as detailed in these plans.
  - All drainage structures and appurtenances shall be constructed in accordance with specifications set forth by Form 817, (latest revision) and the Town of Lisbon Road and Drainage Standards.
  - All excess material resulting from excavation and construction shall be properly disposed of off-site. No material shall be placed beyond the limits of construction or within wetland areas.
  - All utilities are to be installed and constructed in accordance with specifications set forth by the local governing utility.

EROSION AND SEDIMENT CONTROL NOTES

All erosion and sediment control measures and construction practices shall be as described herein and further detailed in the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control", and as periodically amended, published by the Connecticut Council on Soil and Water Conservation and the Connecticut Department of Energy and Environmental Protection.

## SECTION A. BEST MANAGEMENT PRACTICES FOR PROTECTION OF THE ENVIRONMENT

1. No construction shall proceed until proper sedimentation and erosion control methods have been installed as the sequence of construction necessitates.
2. No equipment, materials or machinery shall be stored, cleaned or repaired within one-hundred (100) feet of any wetland or watercourse.
3. No materials resulting from any clearing activity shall be disposed of in any wetland or watercourse.
4. Fording streams with equipment shall be prohibited unless specified elsewhere. Approval from the Lisbon Island Wetland and Watercourse Commission will be required for any haul road or temporary structure placed in wetlands or watercourses.
5. No soil fill or other materials (construction debris) shall be deposited in surrounding wetlands or watercourses except as otherwise approved by the Town of Lisbon Island Wetland and Watercourse Commission and depicted herein.
6. Where dewatering is necessary, the pump shall not discharge directly into any wetland or watercourse. Proper methods and devices shall be utilized, such as pumping the water into a temporary sedimentation pool, providing surge protection at the inlet and the outlet of pumps, floating the intake of the pump, or other methods to minimize and retain the suspended solids. If the pumping operation is causing turbidity problems, said operation shall cease until feasible means of controlling turbidity are determined and implemented.
7. All temporary fill, storage or stockpile areas shall be properly stabilized to prevent erosion and suitably contained to prevent turbid runoff from reentering a wetland or watercourse. All areas affected by temporary fills must be restored to their original contours, and revegetated with native plants and vegetation. Temporary fill and/or excavation shall be minimized to only that area required to perform the work.

| PROJECT DATA |  |
|--------------|--|
| FIELD BOOK   | BOOK No. 46 Pgs. 73-74<br>BOOK No. 47 Pgs. 2-6 |
| DWG FILE     | 10-107 CC Plan Set.dwg                         |
| LAYOUT TAB   | E&S Details                                    |
| SHEET No.    | 3 OF 4   |

9. Dumping of oil or other deleterious materials on the ground is forbidden. The Developer or Contractor shall provide a means of catching, retaining and properly disposing of drained oil, removed oil filters, or other deleterious material from equipment used on site. Vehicle maintenance and emergency spillage of petroleum products shall be prohibited on site. All oil and debris shall be immediately reported to the Department of Energy and Environmental Protection/Hazardous Materials Office. Failure to do so may result in the imposition of fines under the applicable Connecticut General Statutes.
9. Every precaution shall be used while working near a waterway to prevent and minimize the degradation of the existing water quality. All activities shall be in conformance to and consistent with all applicable water quality standards and management practices as set forth by local, state and federal agencies.
10. During the period of construction, the contractor is responsible for all erosion and sediment control measures. Said measures shall be inspected weekly and after each rainfall event and during a major storm event. Accumulated deposits of sediment and silt shall be periodically removed from the upstream side of the erosion and sediment control barriers, and upon establishment of permanent seeding and mulching. Such materials removed shall be spread and stabilized in non-wetland areas which are not subject to erosion, or which are not to be paved or built upon.
11. Hay bales, silt fencing and other erosion and sediment control measures shall be repaired, cleaned and/or replaced as necessary throughout the construction period in order to maintain erosion and sediment control and integral erosion and sediment control practices. All erosion and sediment control facilities and measures are to remain in place and in proper condition and be continuously maintained until final grading has been completed, all disturbed areas up gradient of said facilities have been permanently stabilized and all newly grassed areas have been stabilized. Once the erosion and sediment stabilization, the facilities shall be dismantled, removed, and disposed of in an approved manner. Additional erosion and sediment control measures beyond those shown on the plans or prescribed herein shall be put in place, whenever necessary, to address field conditions and/or as directed by the Town of Lisbon.
12. Disturbance of the land shall be limited to the minimum extent necessary to complete the proposed development. All existing trees and shrubs shall be conserved where possible, except those whose removal is required to perform the proposed work. The limits of disturbance shall be established by the field prior to starting any actual construction activities and shall be generally as depicted by the grading/site development drawings.

## SECTION B. TEMPORARY AND PERMANENT VEGETATIVE COVER

1. If final grading must be delayed for more than thirty days after the construction activities are completed and/or if permanent seeding is not seasonably possible within thirty days of completion of final grading, temporary soil stabilization measures consisting of heavy mulching or temporary seeding shall be performed. This shall also apply to soils stockpiled in excess of sixty days. Temporary seeding shall use annual ryegrass applied at a rate of 2 lbs./1000 sq. ft. Temporary mulch shall be weed free hay or straw, or air-dried wood chips free of coarse matter, treated with twelve pounds of nitrogen per ton. Application rate for the mulch shall be seventy to ninety pounds per one thousand square feet (70-90 lbs./1000 sq. ft.) for hay or straw, and 185-275 lbs./1000 sq. ft. for wood chips.
2. Where a permanent seedbed is to be established, there shall be a minimum depth of four inches of topsoil spread, fine-graded and raked to remove large stones and other debris. Limestone shall be applied at a rate of ninety pounds per one thousand square feet (90 lbs./1000 sq. ft.).
3. It is recommended that the soil be tested to determine the best fertilizer application rate; however, the following rates shall generally apply.
4. Spring Seeding
  - a. Prior to seeding, 300 pounds of 10-10-10 fertilizer per acre (7 lbs./1000 sq. ft.) shall be worked uniformly into the topsoil to a depth of four inches with a whisk, a spring tooth harrow or other suitable equipment; then six to eight weeks later surface apply an additional 300 pounds of 10-10-10 fertilizer per acre.
5. Fall Seeding
  - a. Prior to seeding, 600 pounds of 10-10-10 fertilizer per acre (14 lbs./1000 sq. ft.) shall be worked uniformly into the topsoil to a depth of four inches with a whisk, a spring tooth harrow or other suitable equipment.
  - b. Permanent seedbeds are to be planted between March 15 to June 15 (Spring) and August 15 to October 15 (Fall). As fertilizer planting applications shall be performed parallel with the final grading of the slope. After seed application, cover grass and legume seeds with not more than 1/4 inch of soil with suitable equipment (except when seedling).
6. Select adapted seed mixture for all finished grasses as follows:

| <u>Wetland Areas</u> |     |           |                         |
|----------------------|-----|-----------|-------------------------|
| Reed Canary Grass    | 35% | 28 lbs/ac | (0.70 lbs/1000 sq. ft.) |
| Fine Leaf Fescue     | 35% | 28 lbs/ac | (0.70 lbs/1000 sq. ft.) |
| Bird's foot Trefoil  | 30% | 24 lbs/ac | (0.60 lbs/1000 sq. ft.) |

| <u>Full to Partial Sun Areas</u> |     |           |                         |
|----------------------------------|-----|-----------|-------------------------|
| Kentucky Bluegrass               | 45% | 20 lbs/ac | (0.50 lbs/1000 sq. ft.) |
| Creeping Red Fescue              | 45% | 20 lbs/ac | (0.50 lbs/1000 sq. ft.) |
| Perennial Ryegrass               | 10% | 5 lbs/ac  | (0.10 lbs/1000 sq. ft.) |

| <u>Shady Areas</u>  |     |           |                         |
|---------------------|-----|-----------|-------------------------|
| Creeping Red Fescue | 90% | 50 lbs/ac | (1.00 lbs/1000 sq. ft.) |
| Perennial Ryegrass  | 10% | 5 lbs/ac  | (0.10 lbs/1000 sq. ft.) |

Droughty Areas

|                     |     |           |                         |
|---------------------|-----|-----------|-------------------------|
| Creeping Red Fescue | 65% | 40 lbs/ac | (0.90 lbs/1000 sq. ft.) |
| Tall Fescue         | 35% | 20 lbs/ac | (0.50 lbs/1000 sq. ft.) |

Immediately following seeding, the seedbeds shall be mulched with straw or hay free from weeds and coarse matter at a rate of seventy to ninety pounds per one thousand square feet (70-90 lbs/1000 sq. ft.) Mulch shall be anchored immediately after spreading by application of a liquid mulch binder or mulch netting applied in accordance with the manufacturer's recommendations.

### SECTION C. INSPECTION

1. The Owner, or its duly appointed representative, shall be responsible to inspect the site in accordance with the procedures as outlined in the "General Permit for the Discharge of Stormwater and Dewatering Waste Waters from Construction Activities" (DEEP-PED-GP-015) as adopted by the Connecticut Department of Energy and Environmental Protection.
2. The Owner shall inspect all disturbed areas of construction activity that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS OF A MAGNITUDE OF 0.5 INCHES OR GREATER. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three consecutive months.
3. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be inspected to ensure that they are operating correctly. Where discharge locations or points are assessable, they shall be inspected to ensure that erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.
4. A report shall be made summarizing the scope of the inspection including the following: name and qualifications of personnel making the inspection, the date of the inspection, major observations relating to the implementation of the stormwater control plan, and actions taken. The report shall be retained as part of the stormwater control plan for at least

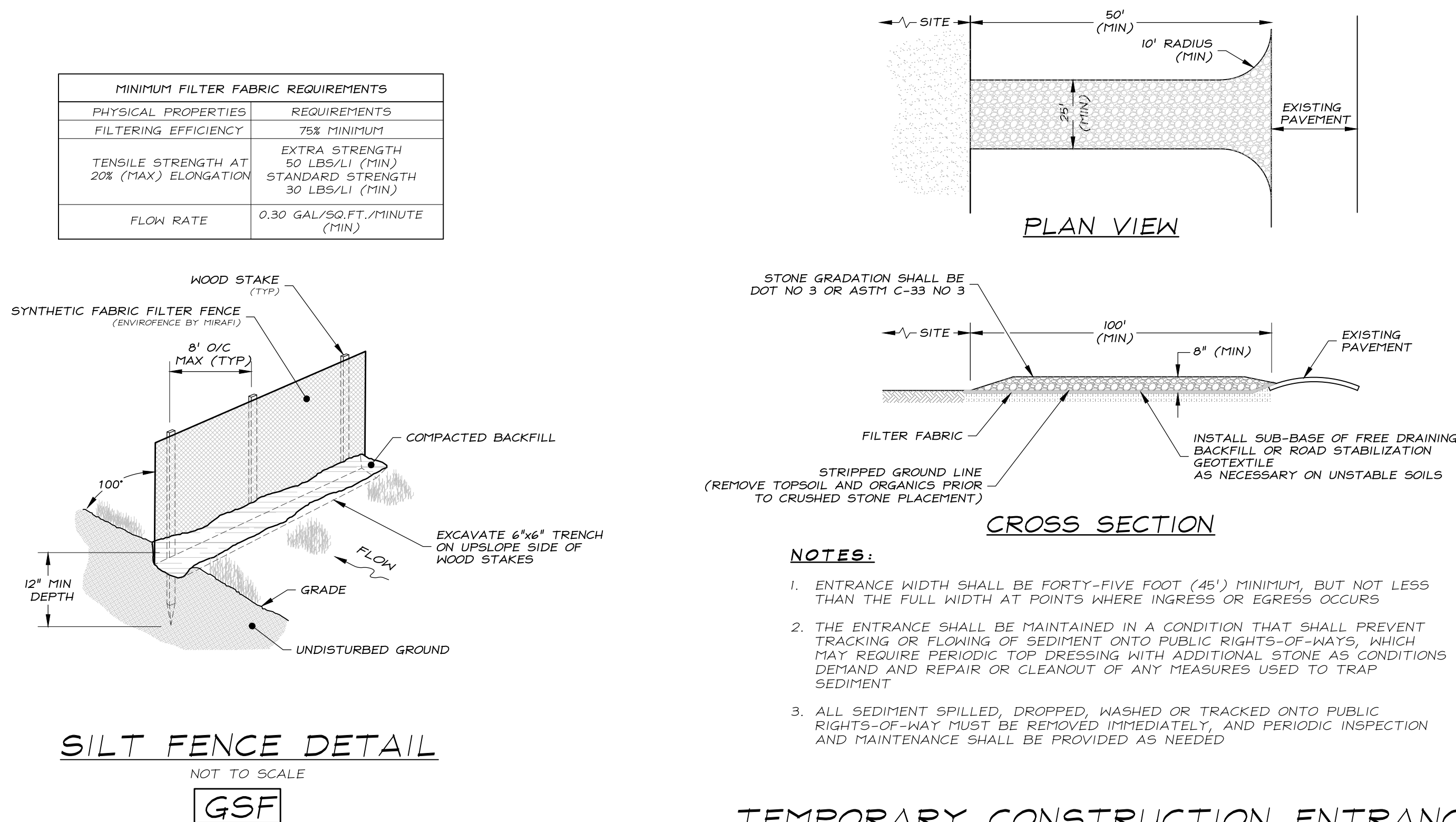
three years after the date of inspection.

## SECTION D MAINTENANCE

1. During the period of construction, all erosion and sediment control measures shall be inspected weekly, after each rain event and during a major storm event. Accumulated deposits of sediment and silt shall be periodically removed from the upstream side of the erosion and sediment control barriers, and upon establishment of permanent seeding and mulching. Such materials removed shall be spread and stabilized in non-wetland areas which are not subject to erosion, and which are not within future construction areas.
2. Hay bales, silt fencing and other erosion and sediment control measures shall be repaired, cleaned and/or replaced as necessary throughout the construction period in order to maintain complete and integral erosion and sediment control protection. Once installed, all erosion control measures shall be maintained to remain in place and in proper condition, and be continuously maintained until final grading has been completed, all disturbed areas up gradient of said facilities have been permanently stabilized and all newly grassed areas have had at least two mowings. Following such permanent stabilization, the facilities shall be dismantled, and disposed of in an approved manner.
3. Additional erosion and sediment control measures beyond those depicted herein shall be put in place whenever necessary to address field conditions and/or as ordered by the Town of Norwich, or their agent.

## SECTION E RESPONSIBILITY

1. The owner (or its duly appointed representative) shall be personally responsible for implementing this erosion and sediment control plan and enforcing the prescribed safeguards during the construction period.
2. This responsibility includes the installation and maintenance of control measures throughout the construction period, informing all parties engaged on the construction site of the requirements and objectives of this plan, notifying the proper town agencies and officials of any transfer of this responsibility, and conveying a copy of the approved erosion and sediment control plan if the title of the land is transferred to a third party.



NOTES:

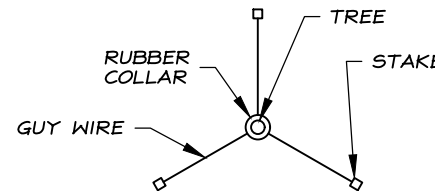
1. ENTRANCE WIDTH SHALL BE FORTY-FIVE FOOT (45') MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS, WHICH MAY REQUIRE REPAIRS TO BE MADE BY THE ADDITIONAL STONE AS TRAP SEDIMENT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAYS MUST BE REMOVED IMMEDIATELY AND PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED

TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

TCE

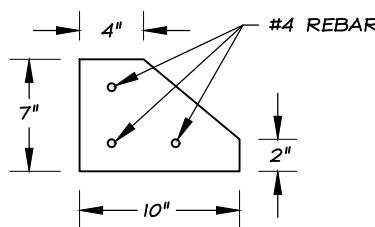




NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

1. BUMPER STOPS ARE 6' LONG WITH  $\frac{1}{2}$ " Ø PINS
2. CONCRETE COMPRESSIVE STRENGTH: 4000 PSI @ 28 DAYS
3. METHOD OF MANUFACTURE: WET CAST
4. REINFORCING STEEL DEFORMED BARS CONFORM TO THE LATEST ASTM SPECIFICATION A615
5. MANUFACTURED TO CONNECTICUT DOT SPECIFICATIONS
6. UNIT WEIGHT: 300 LBS

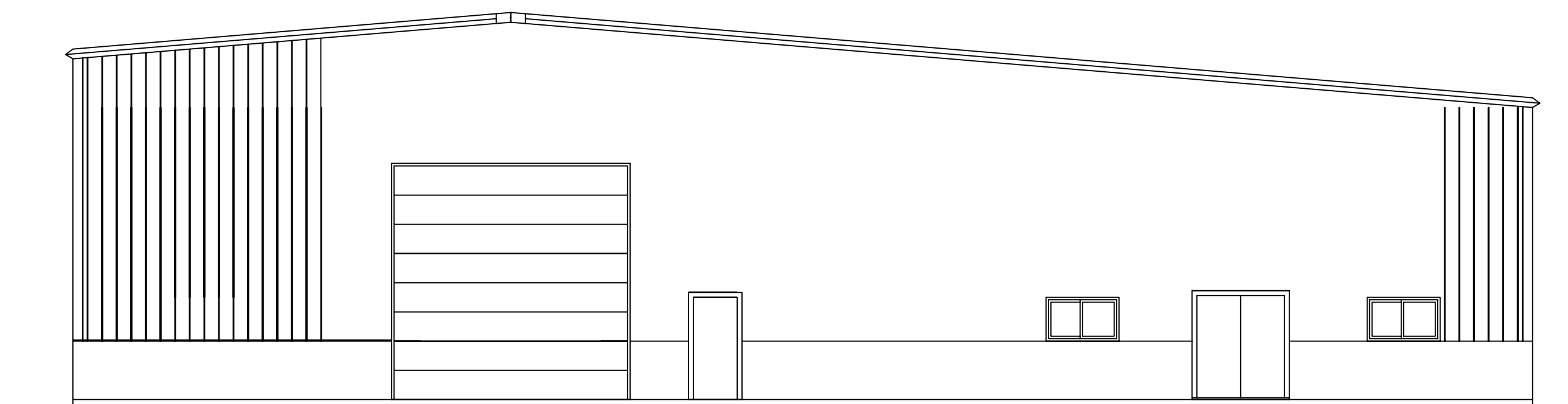
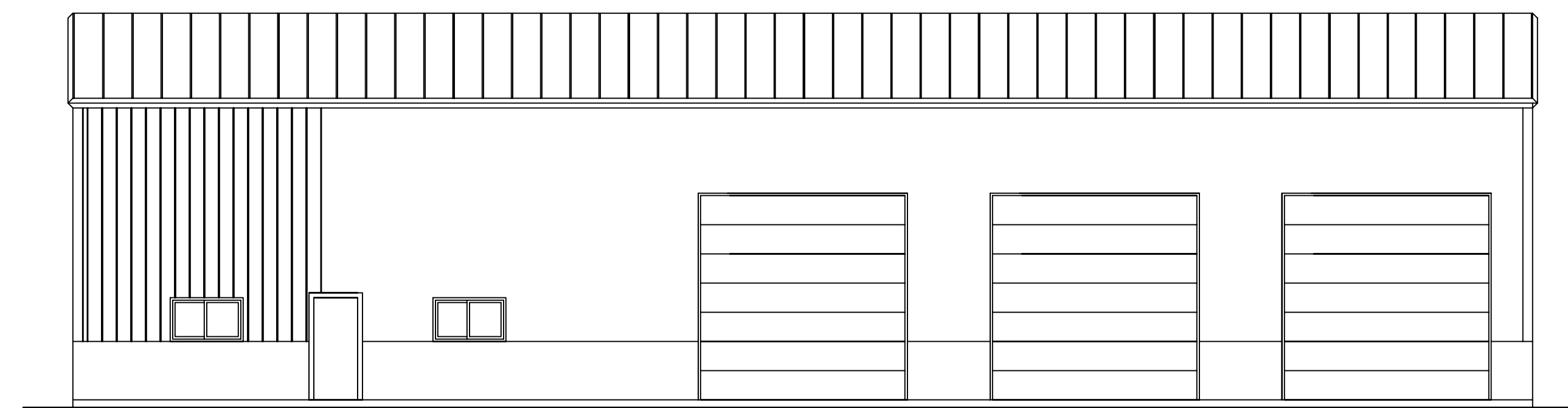
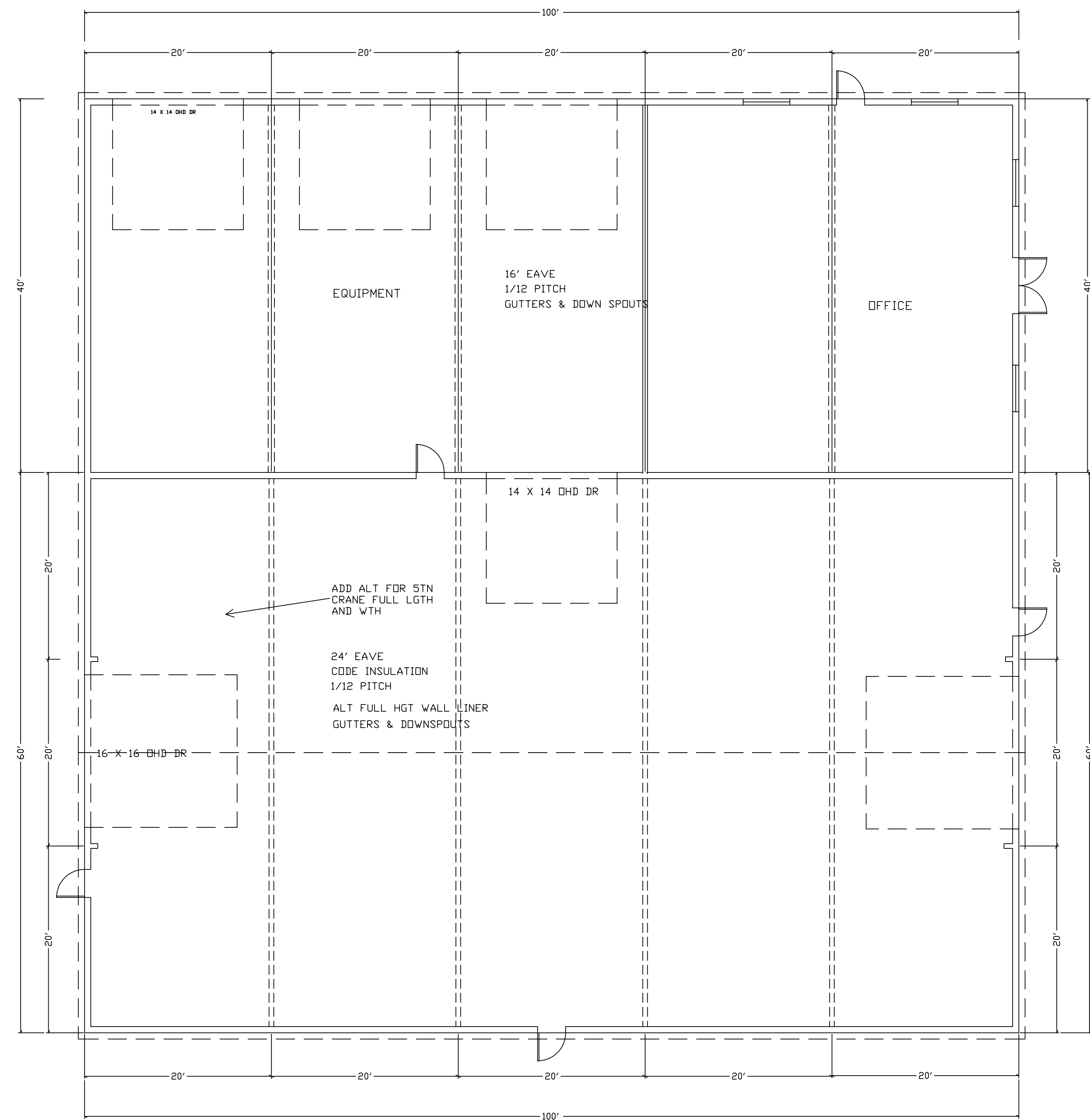


NOT TO SCALE



1. MATERIALS, METHODS OF INSTALLATION, CURING, TESTING, SHALL CONFORM TO STATE OF CT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 814A OR 815 @1995 OR CURRENT SPECIFICATION FOR SUCH WORK
2. ANY WALKING SURFACE SHALL BE LIGHTLY BROOMED PERPENDICULAR TO THE WAY OF TRAVEL

NOT TO SCALE



| REVISIONS |  |
|-----------|--|
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |

PROPOSED  
NEW BUILDING  
for  
TODAYS CONSTRUCTION

C.E.D.S.  
PO BOX 363  
CENTRAL VILLAGE, CT. 06332  
860.564.3742

|                 |
|-----------------|
| DATE: 7-11-2021 |
|-----------------|

SCALE: AS NOTED

SHEET  
1

OF