

GRADING AND UTILITY NOTES

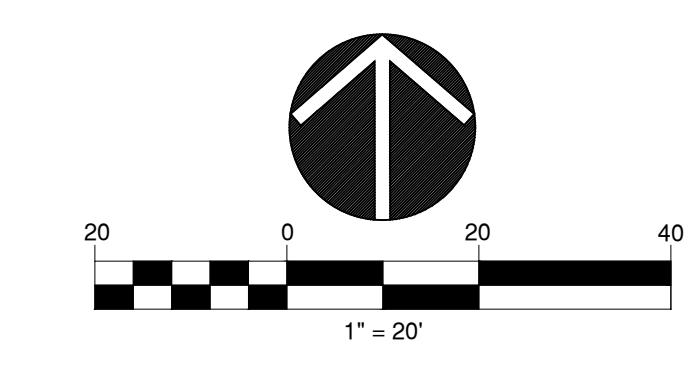
- PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED TO MEET FIELD CONDITIONS.
- WHERE FIELD CONDITIONS CALL FOR ON-SITE ADJUSTMENTS OF FINISHED GRADES, THE OWNER'S REPRESENTATIVE SHALL MAKE THE FINAL DETERMINATION.
- CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE JOB AND BE RESPONSIBLE FOR THE SAME. NOTIFY SITE PLANNER OF DISCREPANCIES PRIOR TO BEGINNING WORK.
- EROSION CONTROL FABRIC TO BE USED ON ALL SLOPES GREATER THEN 3:1
- STRIP AND STOCKPILE TOPSOIL FOR REUSE ON SITE. SEE NOTE #1 ON SHEET L-1.0.
- PITCH ALL WALKS AT 2% CROSS SLOPE UNLESS OTHERWISE NOTED.
- ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE.
- ALL EXISTING UTILITY LINES TO BE ABANDONED SHALL BE ABANDONED ACCORDING TO UTILITY COMPANY REQUIREMENTS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- ALL EXCESS MATERIAL, EXCEPT TOPSOIL, SHALL BE LEGALLY DISPOSED OF OUTSIDE THE PROJECT LIMITS.
- REFERENCE IS MADE IN THESE DOCUMENTS TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816/817 AND SUPPLEMENTS THERETO.
- DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S OR ANY OF HIS SUBCONTRACTOR'S ACTIVITIES DURING THE CONSTRUCTION PROCESS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING DURING THE EXECUTION OF HIS WORK.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS DEVELOPED FROM THE BEST AVAILABLE INFORMATION. THE ACTUAL LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF EXCAVATION ACTIVITIES.
- ACCESS AND UTILITIES TO EXISTING FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR MUST MAINTAIN SUFFICIENT TRAVEL LANE(S), APPROVED BY THE OWNER, TO ENABLE ALL EMERGENCY VEHICLES TO ACCESS THE ENTIRE PROJECT SITE.
- CONTRACTOR TO VERIFY THAT ALL EXISTING UTILITIES TO BE REUSED ARE FUNCTIONAL.

ACCESSIBILITY NOTES

- SLOPES ALONG THE ACCESSIBLE ROUTE SHALL BE LESS THAN 1:20 (5%) AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/4 INCH.
- SLOPES ALONG THE HANDICAP ACCESSIBLE RAMP SHALL NOT EXCEED 1:12 (8.3%) AND THE CROSS SLOPE SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/4 INCH.
- LANDINGS SHALL NOT HAVE A SLOPE GREATER THAN 1:50 (2%) IN ANY DIRECTION.

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	BUILDING	
	EDGE OF PAVEMENT	
	CONTOUR 1 FT	
	CONTOUR 5 FT	
	SPOT GRADE	
	FLOW ARROW	
	FLUSH CONDITION	
	YARD DRAIN	
	DRY WELL	
	SILT FENCE	
	ACCESSIBLE ROUTE	
	HAYBALE	
	WATER LINE	
	SANITARY SEWER	
	TELEPHONE & ELECTRIC	
	CONSTRUCTION ENTRANCE	



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114 WEST MAIN STREET
SUITE 202
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860-612-1700
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SITE DESIGN
LANDSCAPE ARCHITECTURE
URBAN PLANNING



MIRACLE LEAGUE FIELD
EAST LYME - PHASE II
171 BOSTON POST ROAD
EAST LYME, CT

Sheet Description:

Grading & Utility Plan

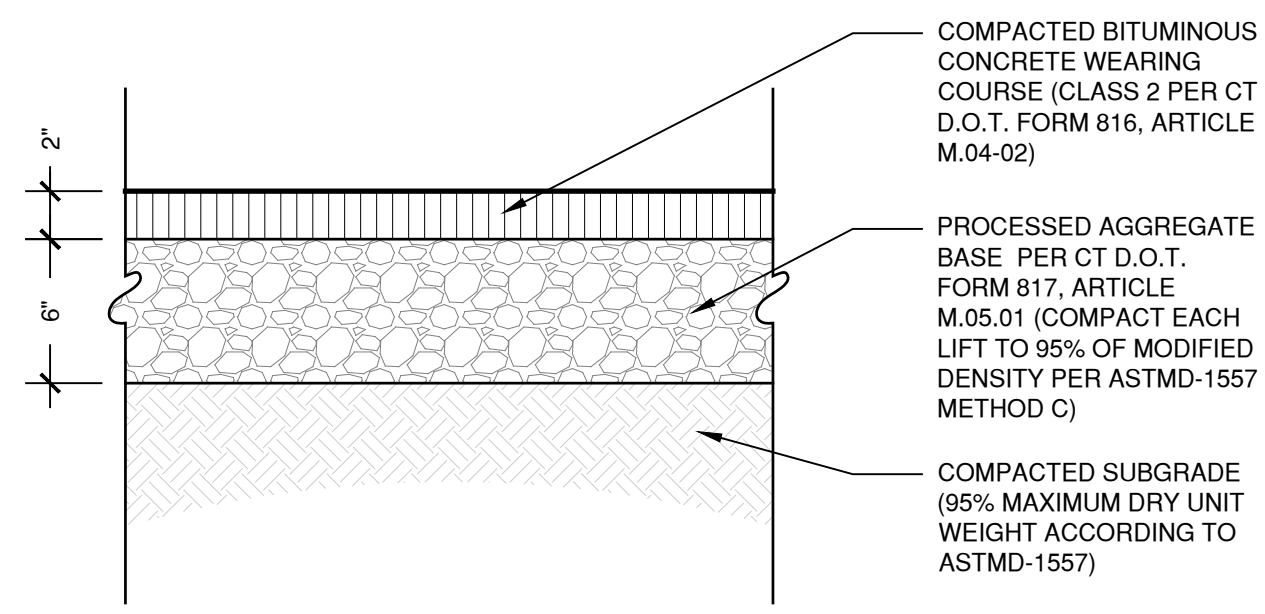
Rev:
JANUARY 18, 2020

Issue Date:
OCTOBER 9, 2020

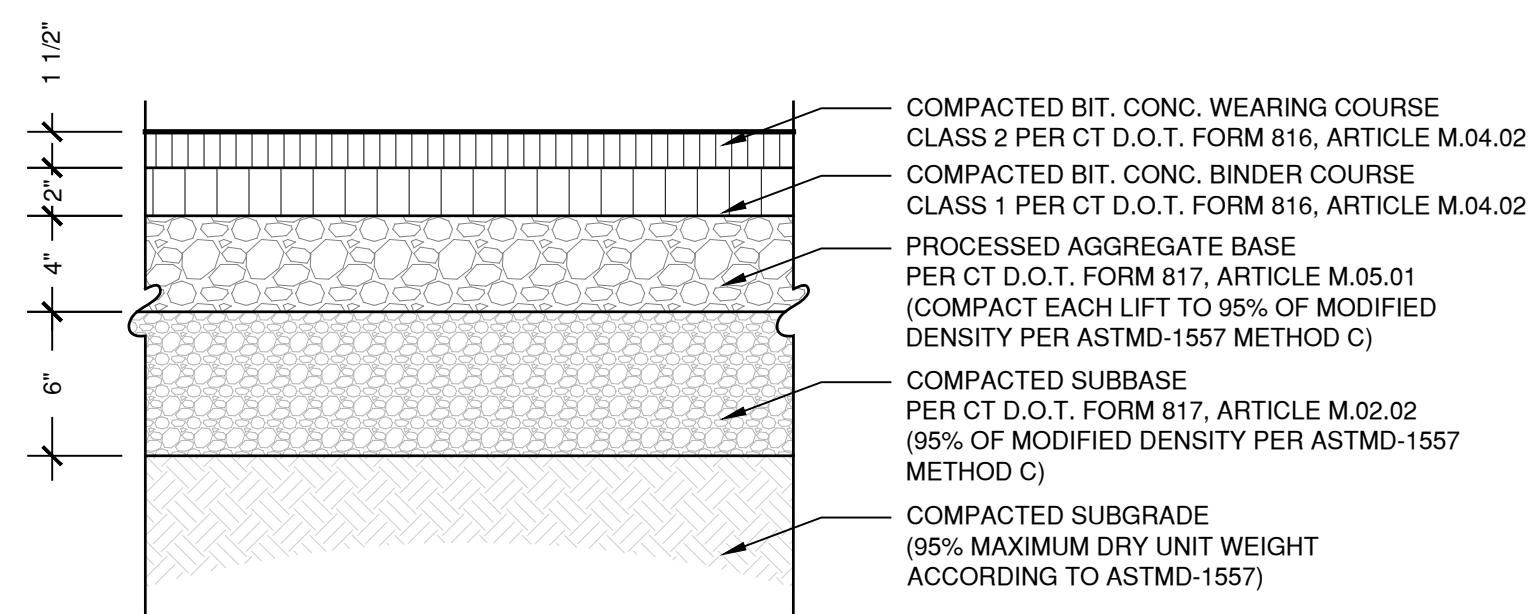
Scale: 1"=20'-0" Drawn by: JT

Project number:
6350

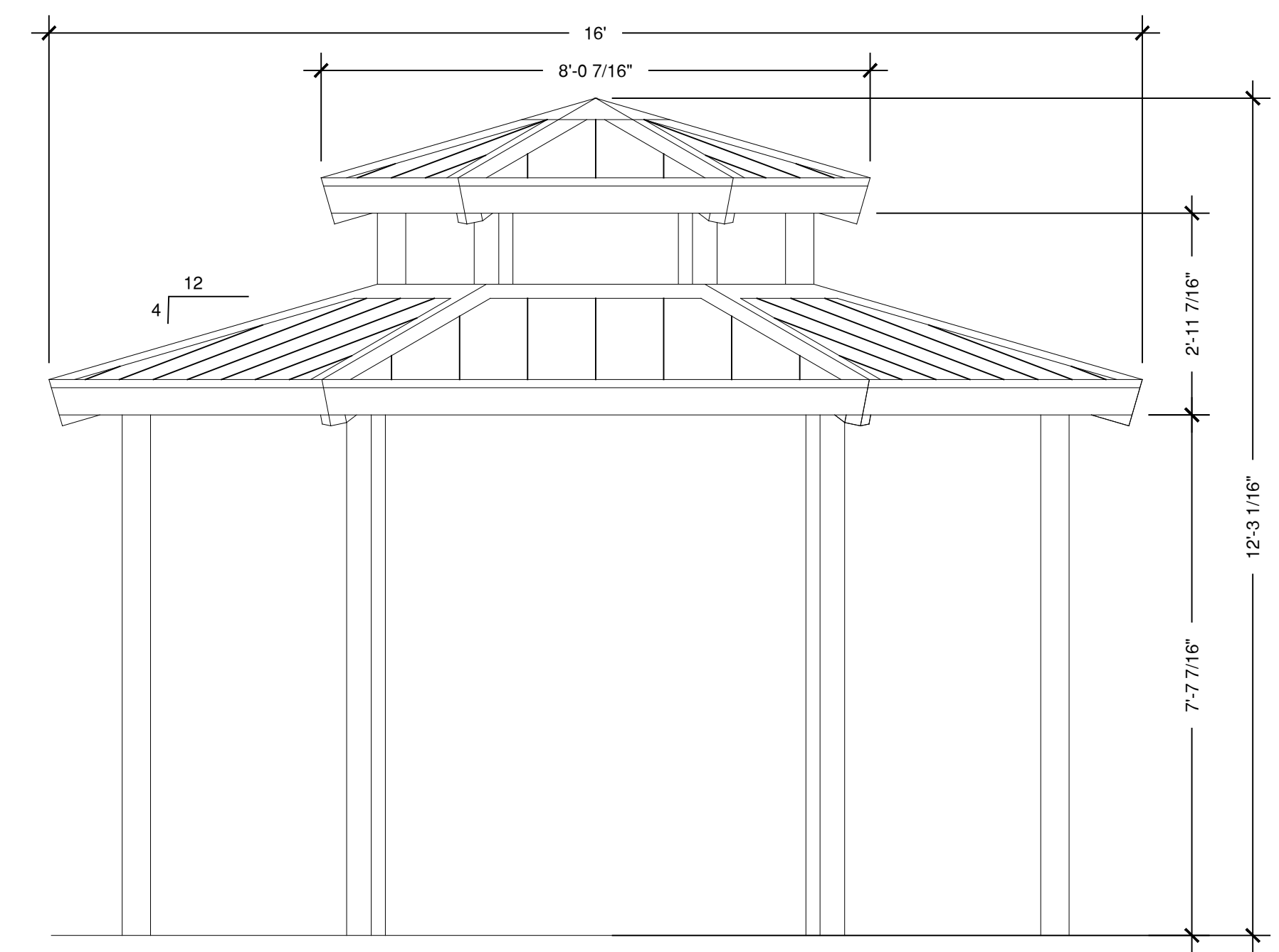
Sheet #:
L-3.1



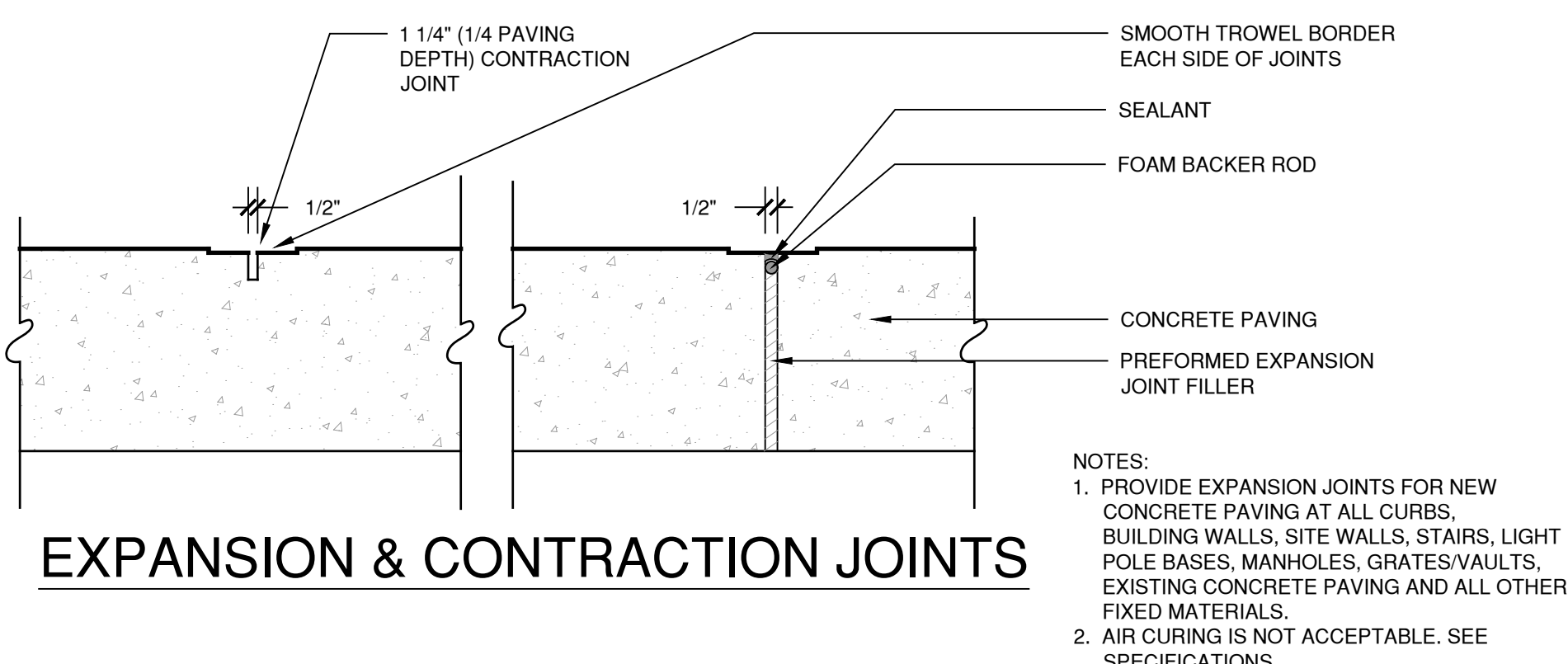
1 BITUMINOUS CONC. PAVEMENT
SCALE 1 1/2" = 1'-0"
(PEDESTRIAN)



10 BITUMINOUS CONC. PAVEMENT
SCALE 1 1/2" = 1'-0"
(VEHICULAR)

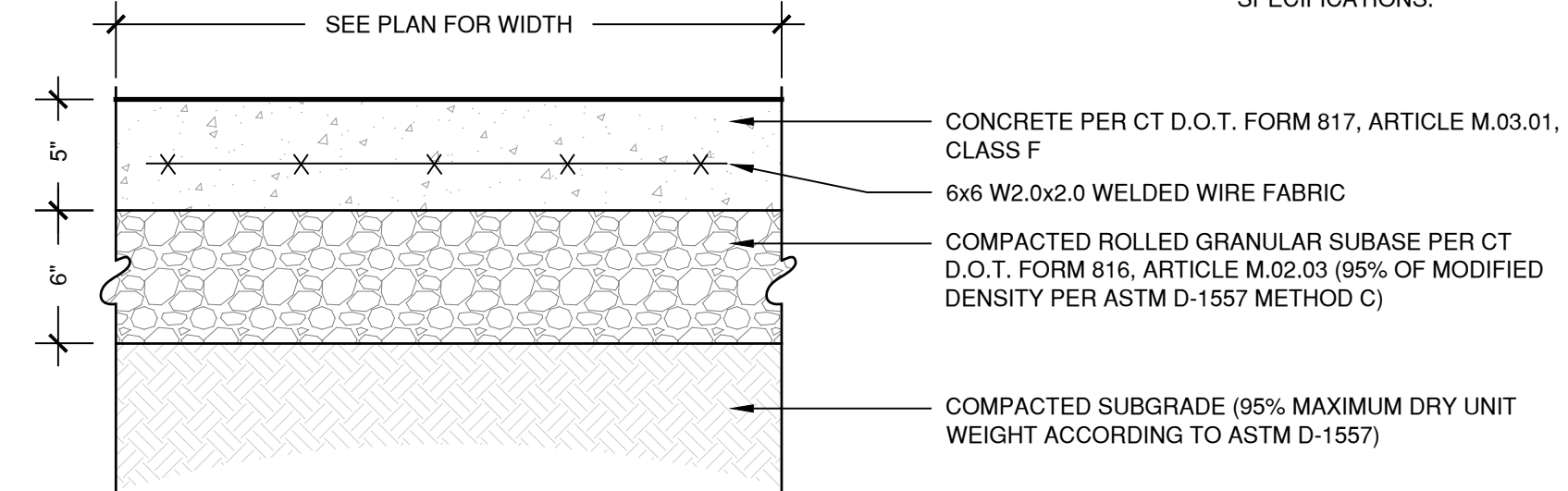


7 PAVILION
SCALE 1/2" = 1'-0"
COVERWORKS MODEL: HXVT-16'-SW STEEL WORK
HEXAGONAL SHELTER WITH VENTED TOP-16'

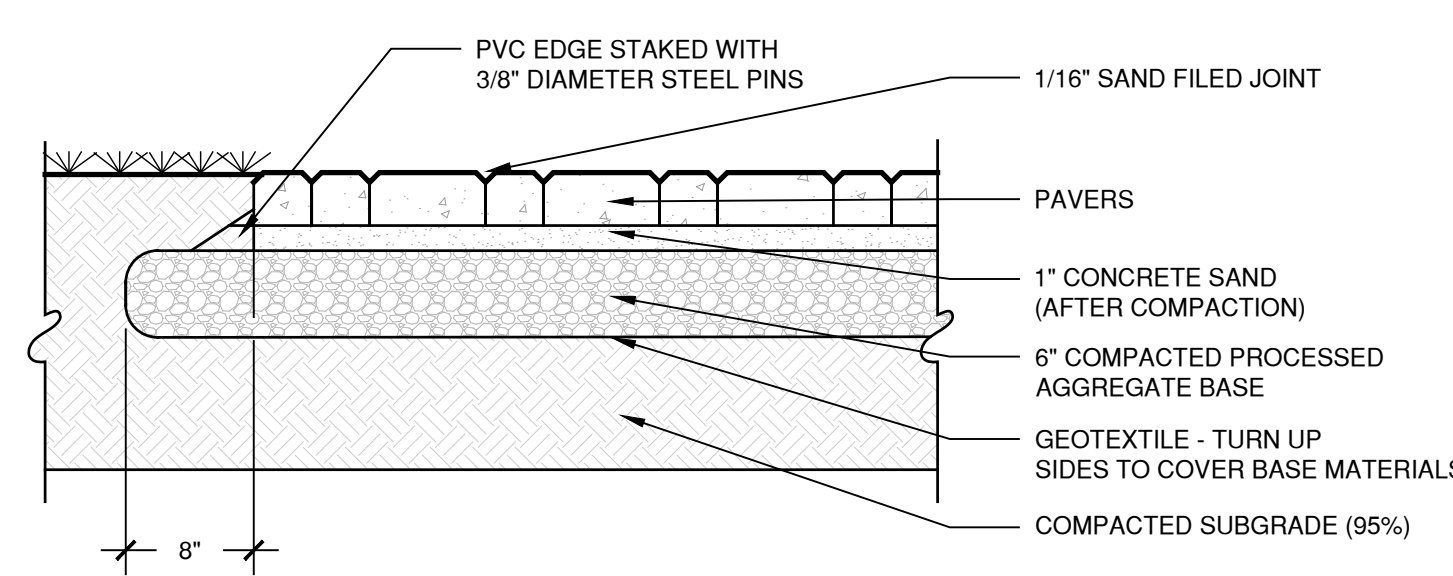


EXPANSION & CONTRACTION JOINTS

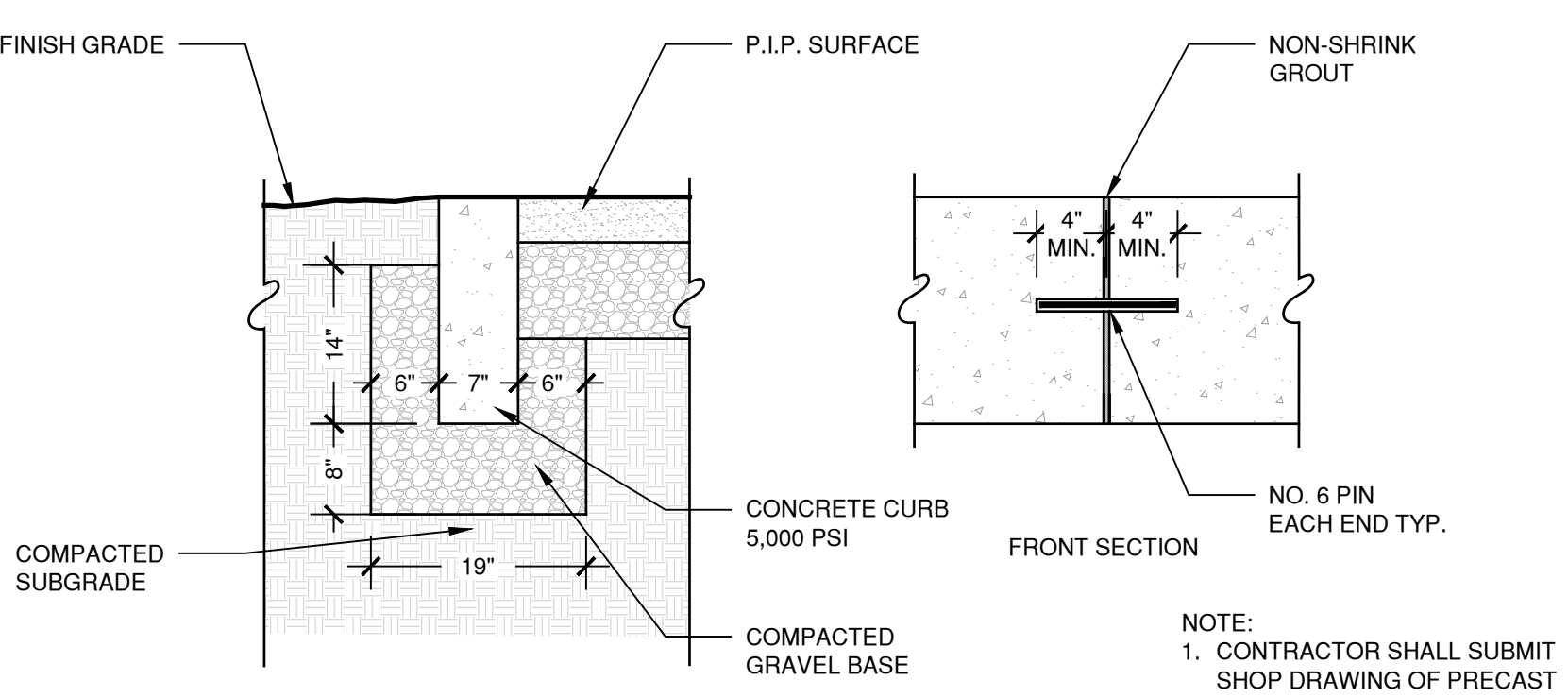
- NOTES:
1. PROVIDE EXPANSION JOINTS FOR NEW CONCRETE PAVING AT ALL CURBS, BUILDING WALLS, SITE WALLS, STAIRS, LIGHT POLE BASES, MANHOLES, GRATES/WAULTS, EXISTING CONCRETE PAVING AND ALL OTHER FIXED MATERIALS.
2. AIR CURING IS NOT ACCEPTABLE. SEE SPECIFICATIONS.



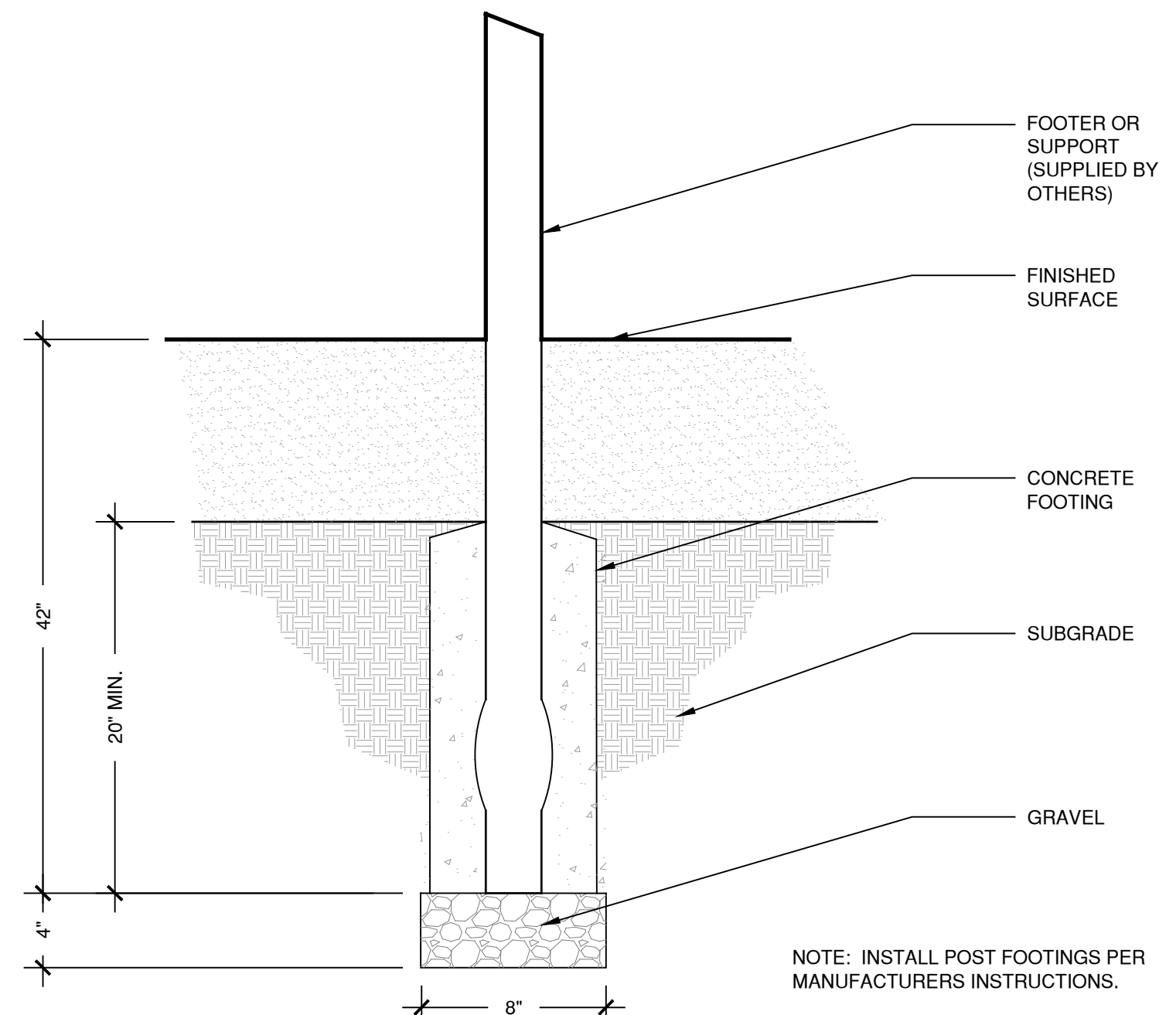
2 CONCRETE PAVEMENT
SCALE 1 1/2" = 1'-0"



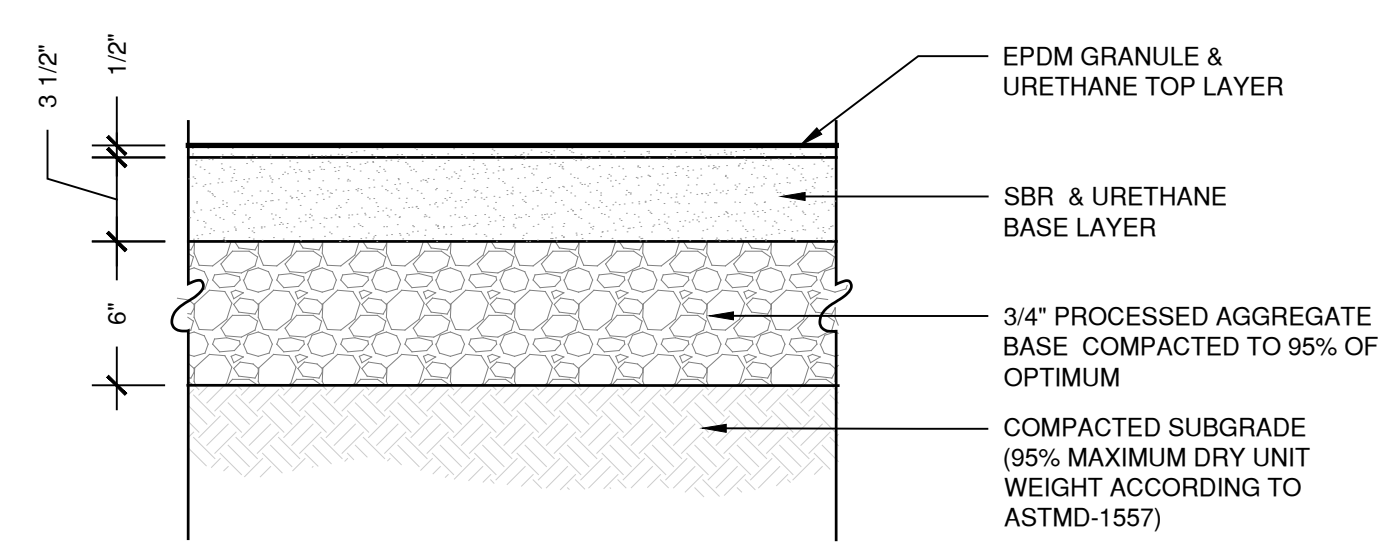
3 PAVERS - ON SAND BASE
SCALE 1" = 1'-0"



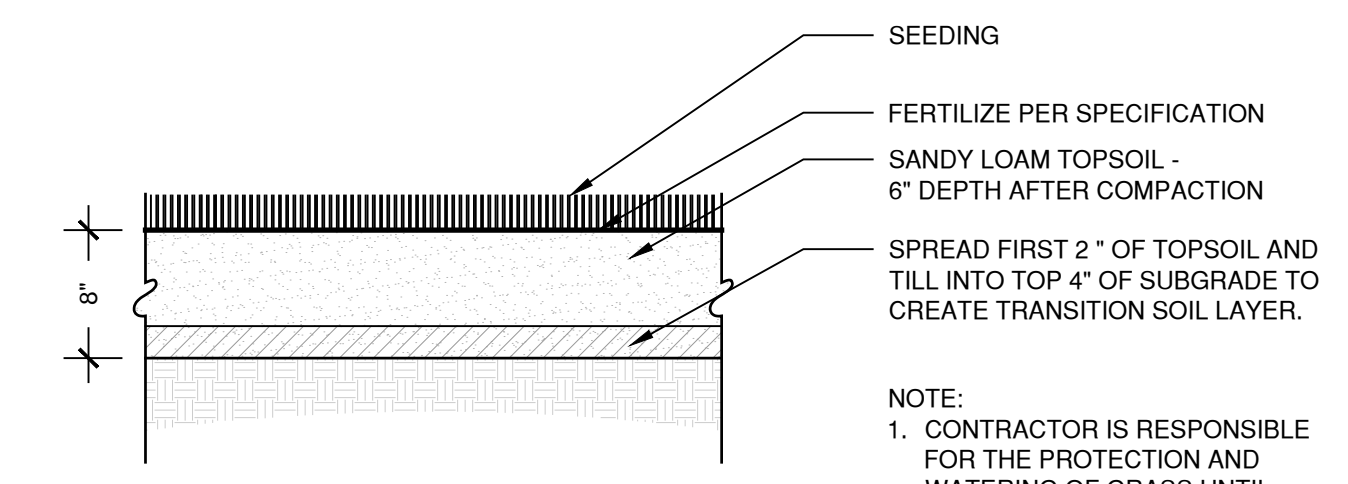
4 CONCRETE CURB
SCALE 3/4" = 1'-0"



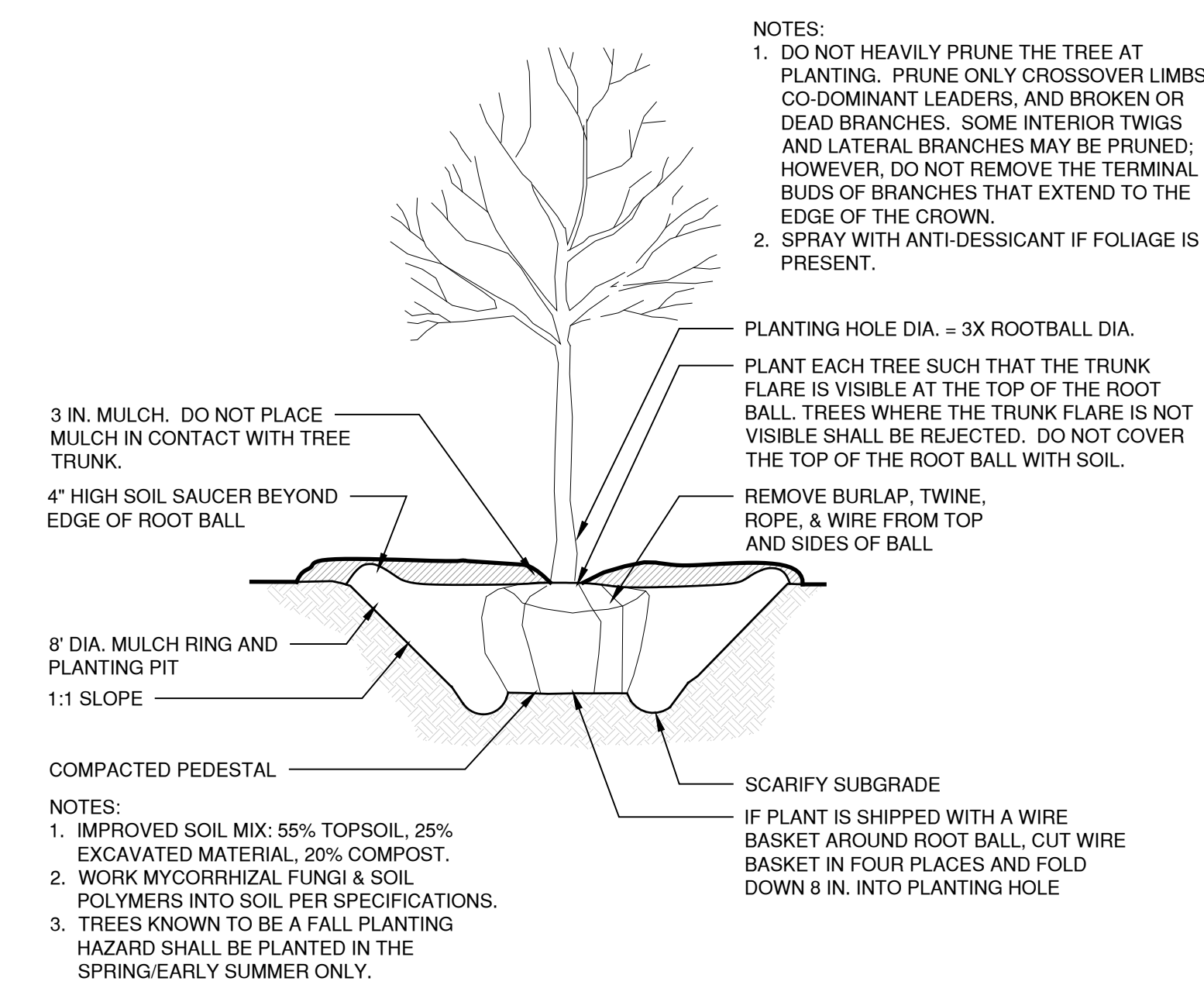
5 FOOTING
SCALE 1 1/2" = 1'-0"



6 POURED IN PLACE RESILIENT SURFACE
SCALE 1 1/2" = 1'-0"



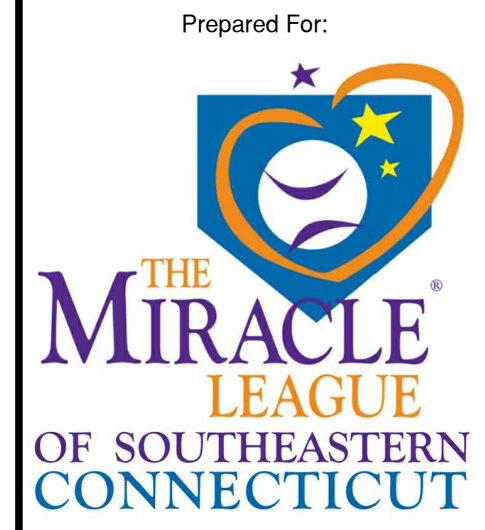
8 TOPSOIL/LAWN
SCALE 1" = 1'-0"



9 TREE PLANTING
SCALE 1" = 1'-0"

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SITE DESIGN
LANDSCAPE ARCHITECTURE
URBAN PLANNING



MIRACLE LEAGUE FIELD
EAST LYME - PHASE II
171 BOSTON POST ROAD
EAST LYME, CT

Sheet Description:

Details

Rev:
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Issue Date:
OCTOBER 9, 2020

Scale: AS NOTED
Drawn by: JT

Project number:
6350

Sheet #:
L-5.0

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SEDIMENTATION AND EROSION CONTROL

PER STATE OF CONNECTICUT PUBLIC ACT 83-388

All applicable practices recommended by the 2002 CT Guidelines for Soil Erosion & Sediment Control are included by reference.

1. DESCRIPTION

The project consists of renovation and expansion of existing play equipment, and construction of a new plaza and restroom building.

2. SCHEDULE

The project is anticipated to be constructed in 2021.

3. DESIGN AND CRITERIA

Note: The Contractor shall name one individual as his Sediment and Erosion Control Supervisor whose primary responsibility will be the maintenance of all on-site erosion control measures. He will keep a daily log of his activities and an updated schedule of proposed construction activities. The log will be made available to inspectors.

A. GEOTEXTILE SILT FENCE (GSF) - Shall be non-woven material, minimum 36" high and fastened to wood stakes (see detail this sheet). Silt fence shall be installed with end turns rolled up grade at 45 degrees for a distance of 10 feet.

B. TEMPORARY SEEDING (TS)

- Contractor shall scarify the soil to a depth of 2" before applying fertilizer, limestone and seed.
- Seed may be applied by hand or mechanically. Seed application shall be uniform. Seed rate shall be in accordance with the 2002 Guidelines for Soil Erosion and Sediment Control (increase seeding rates by 10% when hydroseeding, Limestone, fertilizer and seed may be applied in slurry.)
- Contractor shall mulch area (MS) immediately following seeding. (Note: In the event seeding operations are not feasible due to seasonal restrictions or extended inclement weather patterns, the Contractor shall install an Erosion Control Blanket over exposed soils.)

C. PERMANENT SEEDING (PS)

- Contractor shall apply topsoil and fine grade all areas before the application of permanent seed. Apply limestone and fertilizer as needed, in accordance with soil tests.
- Remove all surface stones 1/2 inch and larger. Remove all other debris and rake seed bed.
- Apply seed within 7 days after establishing final grades. See planting plan.

D. HAY BALE BARRIER (HB) - Shall be made of hay or straw with 40 pounds minimum weight and 120 pounds maximum weight, held together by twine or wire. (See detail this sheet.)

E. CONSTRUCTION ENTRANCE (CE) - Shall be an angular stone (DOT Standard Spec Section M.01.01 size #3) pad, a minimum of 12' wide and 50' long. (See detail this sheet.)

F. EROSION CONTROL BLANKET (ECB) - Erosion mat shall be placed on all exposed outfill slopes steeper than 3:1 (including swales & ditches) to protect against rainfall and hold moisture content to enhance vegetation growth in seeded areas. Mat (or blankets) shall be straw or straw/coconut fiber combination sewn together with lightweight netting. Use North American green. S150 - slopes up to 3:1, SC150-slopes from 3:1 up to 2:1 or greater. Temporary hay mulch to be applied to areas less than 3:1 slope and all areas to be left barren over the winter, mulch rate to be 70 pounds/1000 s.f.

4. APPLICATION/GENERAL PROCEDURES

- Soil erosion and sediment control measures will be installed prior to any site disturbance, and development will proceed according to a specific construction sequence. The objective is to maximize the reduction of sediment-laden runoff through implementation of conventional soil sedimentation and erosion control practices currently recommended by the 2002 "CT Guidelines for Soil Erosion and Sediment Control".
- Earthwork will be scheduled for periods when soil saturation is low and Soil loss hazard is at a minimum.
- Suspend earthwork for major storm events and implement additional sedimentation and erosion control measures as necessary.
- There shall be no cuts or fill left exposed for longer than 30 days. The established procedure of temporarily seeding and/or cover with erosion protection (mat or hay) shall be followed to insure minimal soil loss.

5. MONITORING AND MAINTENANCE PROGRAM

- For the duration of the project construction, the Contractor shall maintain all sedimentation and erosion control devices to insure their efficient operation.
- The responsibility for performing periodic checks of the protection system in-place and to coordinate cleaning and repair operations shall be assigned to the General Contractor's project representative.
- All sedimentation and erosion control devices shall be checked for the adequacy of the control systems prior to severe storm weather forecasts. Inspect control system during and after storms to determine necessary repairs.
- Repairs to sedimentation control systems directed by the project representative shall be done within 24 hours of the directive or as soon as possible prior to storm warnings.
- Replacement materials for the devices utilized must be readily available for repairs.
- Clean sedimentation and erosion control devices as directed by the projects representative.
- Placement of temporary sedimentation and erosion control devices that are not shown on plans, but are required due to Contractor's operations, shall be placed at the direction of the projects representative.
- Dust control and off-site debris caused by the Contractor's earthwork operations shall be prevented, or cleaned-up in accordance with the standard state specification "Form 816".

6. SPECIFIC MAINTENANCE MEASURES SHALL BE AS FOLLOWS:

A. GEOTEXTILE SILT FENCE (GSF) - Inspect GSF at least once a week and within 24 hours of the end of any storm event of 0.5-inch or greater. Repair or replace the fence within 24-hours of observed failure.

B. HAY BALE BARRIER (HB) - Inspect HB at least once a week and within 24 hours of the end of any storm event of 0.5-inch or greater. Repair or replace the hay bales within 24-hours of observed failure.

C. CONSTRUCTION ENTRANCE (CE) - Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces. Provide periodic top dressing with additional stone or additional length as conditions demand. Repair any measures used to trap sediment as needed. Immediately remove all sediment spilled, dropped, washed or tracked onto paved surfaces. Roads adjacent to a construction site shall be left clean at the end of each day.

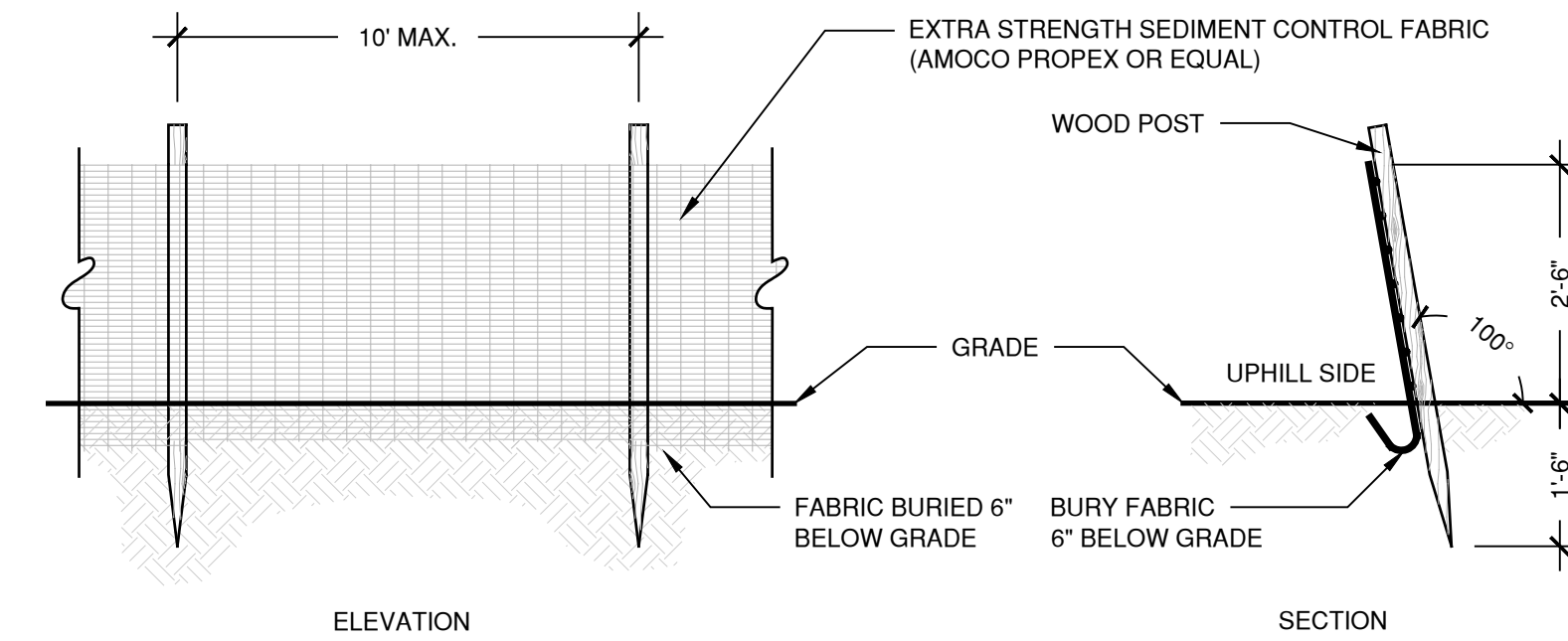
If the construction entrance is being properly maintained and the action of a vehicle traveling over the stone pad is not sufficient to remove the majority of the sediment, then either (1) increase the length of the construction entrance, (2) modify the construction access road surface, or (3) install washing racks and associated settling area or similar devices before the vehicle enters a paved surface.

D. SEEDING (TEMPORARY & PERMANENT)

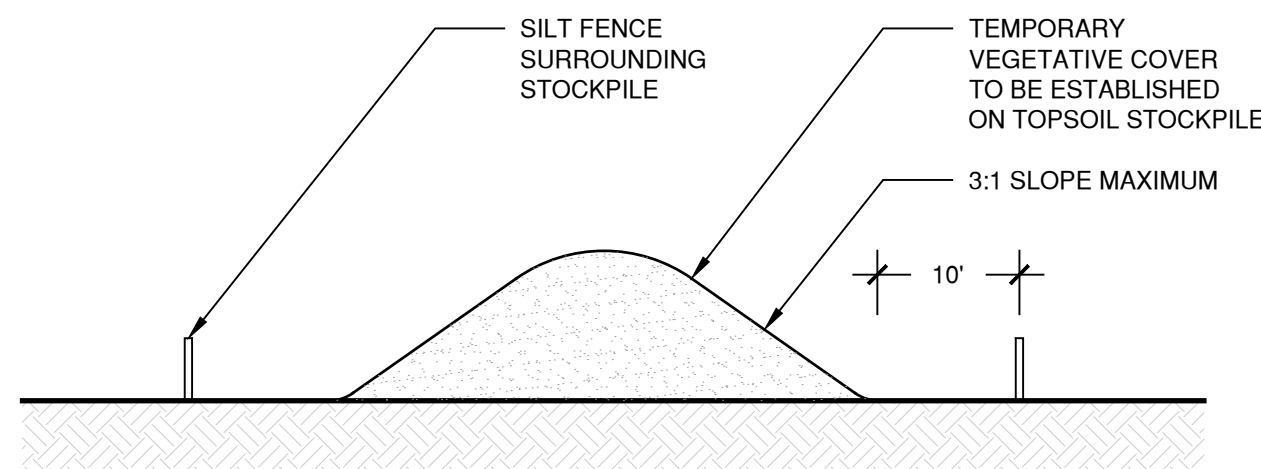
Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Bird feeding may be a problem if mulch was applied too thinly to protect seed. Re-seed and re-mulch. If movement was the result of wind, then repair erosion damage (if any), reapply seed and mulch and apply mulch anchoring. If failure was caused by concentrated runoff, install additional measures to control water and sediment movement, repair erosion damage, re-seed and re-apply mulch with anchoring or use Temporary Erosion Control Blanket measure.

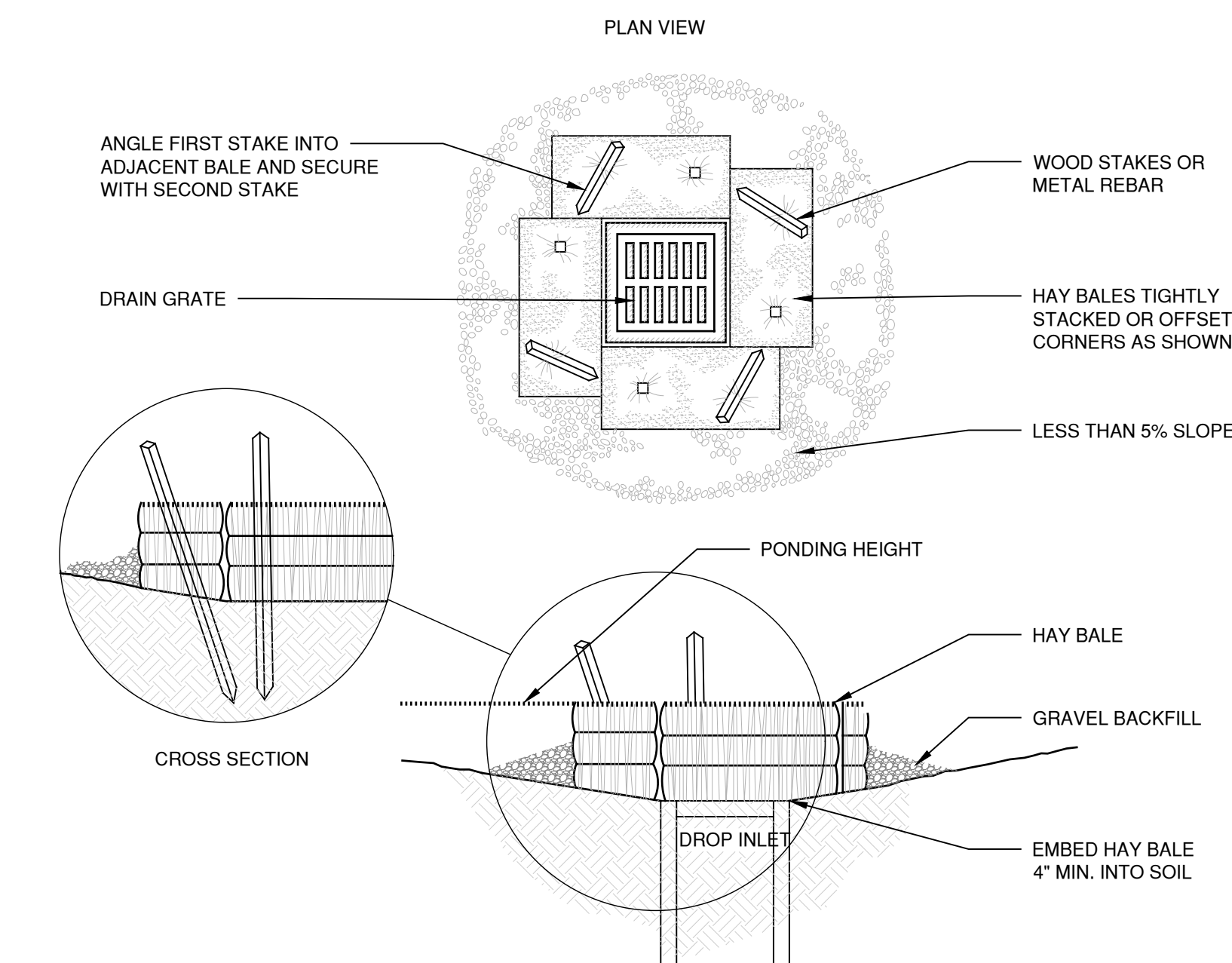
Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative surface cover).



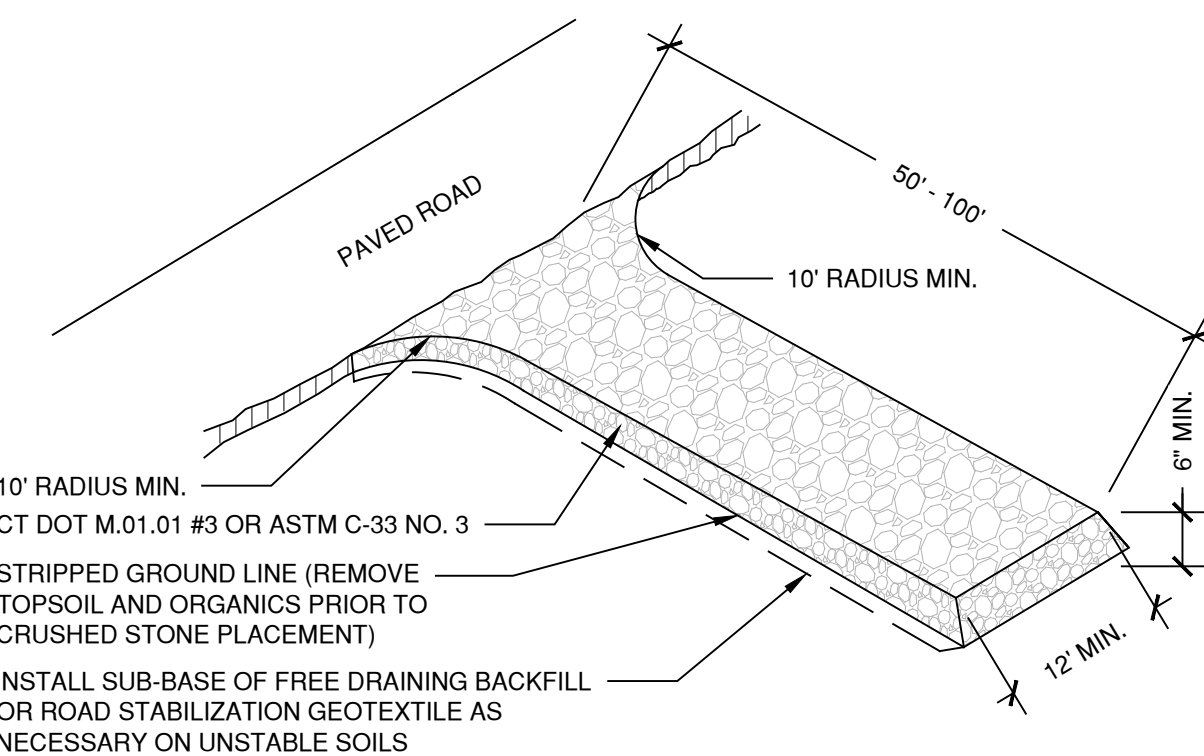
3 GEOTEXTILE SILT FENCE (GSF)
N.T.S.



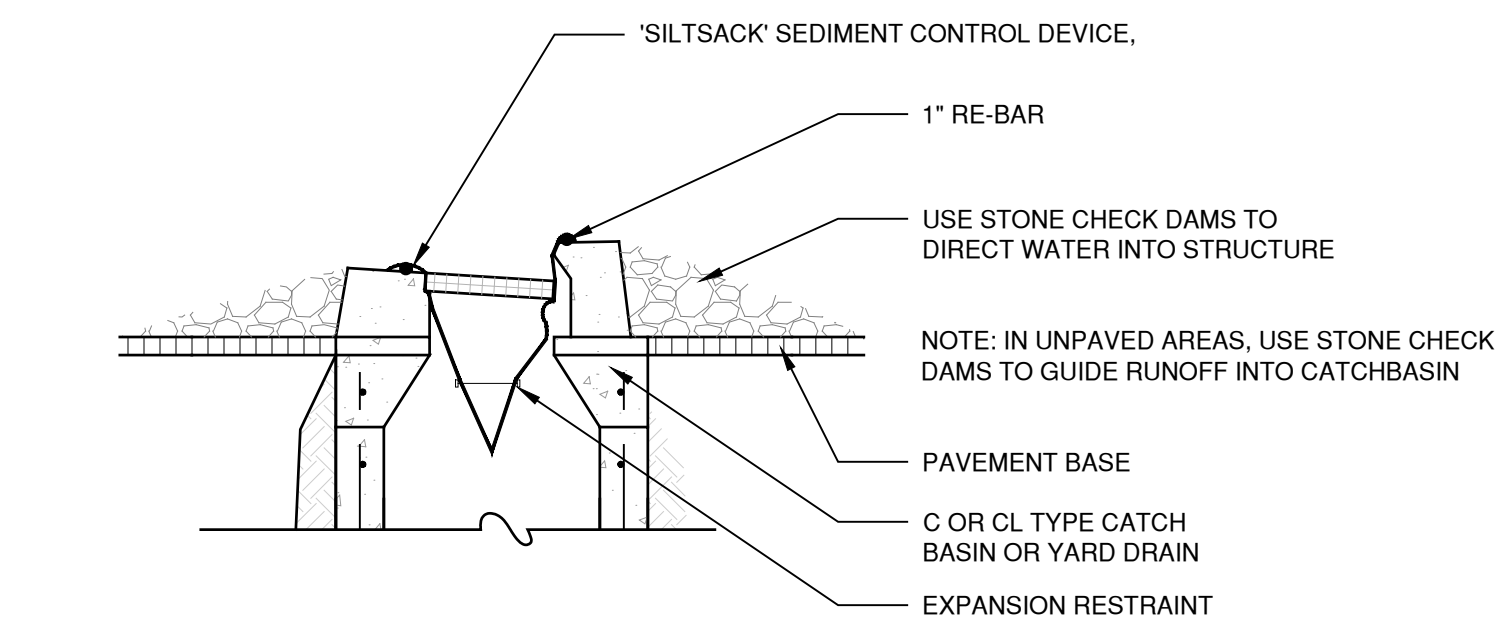
1 TOPSOIL STOCK PILE AREA
N.T.S.



4 HAY BALE BARRIER AT CATCHBASIN (HB)
N.T.S.



2 CONSTRUCTION ENTRANCE (CE)
N.T.S.

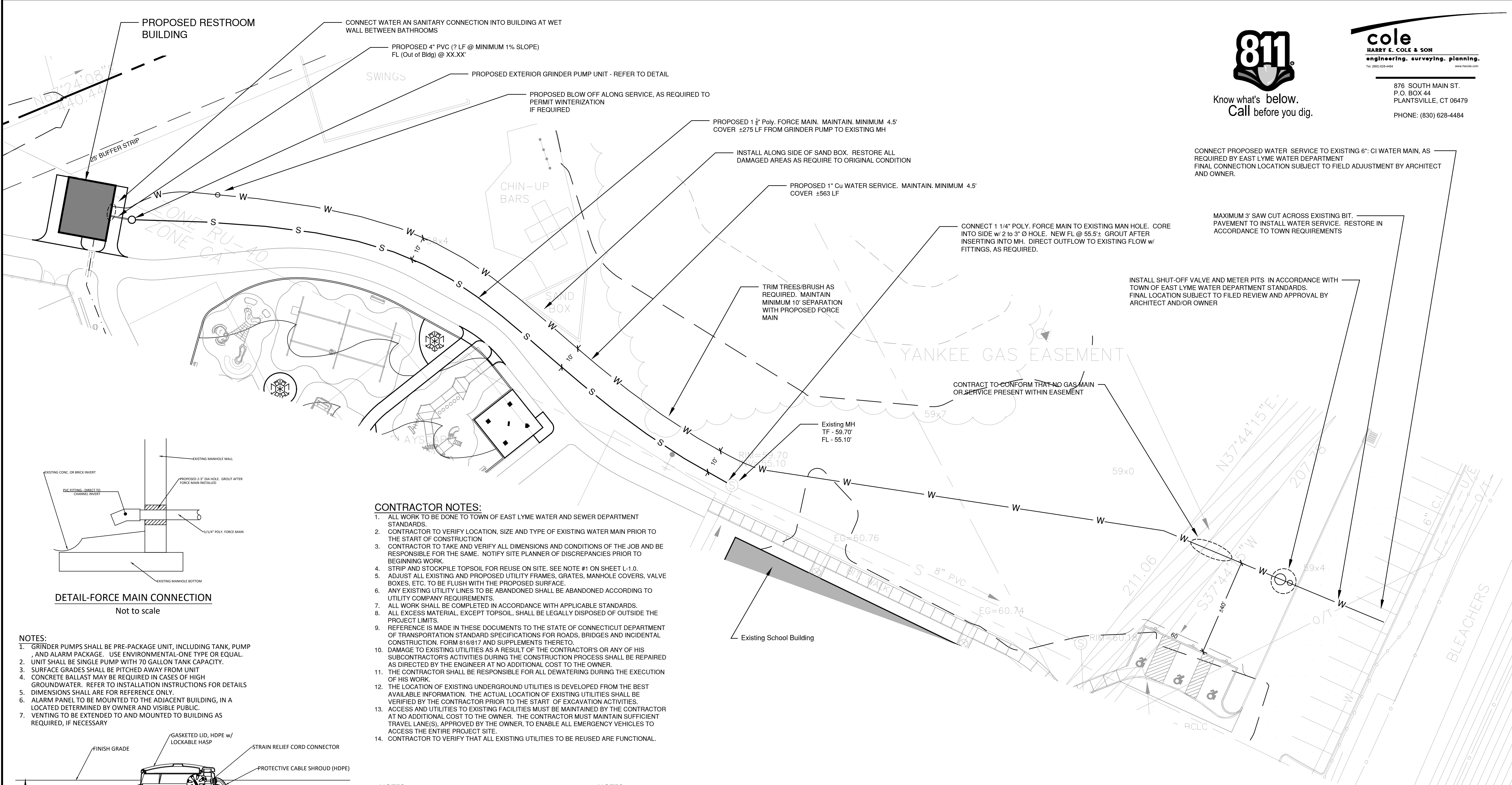


5 SILT SACK (SS)
N.T.S.



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CONNECT PROPOSED WATER SERVICE TO EXISTING 6" CI WATER MAIN, AS REQUIRED BY EAST LYME WATER DEPARTMENT
FINAL CONNECTION LOCATION SUBJECT TO FIELD ADJUSTMENT BY ARCHITECT AND OWNER.

MAXIMUM 3" SAW CUT ACROSS EXISTING BIT.
PAVEMENT TO INSTALL WATER SERVICE. RESTORE IN ACCORDANCE TO TOWN REQUIREMENTS

INSTALL SHUT-OFF VALVE AND METER PITS IN ACCORDANCE WITH TOWN OF EAST LYME WATER DEPARTMENT STANDARDS.
FINAL LOCATION SUBJECT TO FILED REVIEW AND APPROVAL BY ARCHITECT AND/OR OWNER

CONNECT 1 1/4" POLY. FORCE MAIN TO EXISTING MAN HOLE. CORE INTO SIDE w/ 2 to 3" Ø HOLE. NEW FL @ 55.5±. GROUT AFTER INSERTING INTO MH. DIRECT OUTFLOW TO EXISTING FLOW w/ FITTINGS, AS REQUIRED.

PROPOSED 1 1/2" Poly. FORCE MAIN. MAINTAIN. MINIMUM 4.5' COVER ±275 LF FROM GRINDER PUMP TO EXISTING MH

PROPOSED 1" Cu WATER SERVICE. MAINTAIN. MINIMUM 4.5' COVER ±563 LF

INSTALL ALONG SIDE OF SAND BOX. RESTORE ALL DAMAGED AREAS AS REQUIRE TO ORIGINAL CONDITION

PROPOSED BLOW OFF ALONG SERVICE, AS REQUIRED TO PERMIT WINTERIZATION IF REQUIRED

PROPOSED EXTERIOR GRINDER PUMP UNIT - REFER TO DETAIL

PROPOSED 4" PVC (7 LF @ MINIMUM 1% SLOPE) FL (Out of Bldg) @ XX.XX'

CONNECT WATER AND SANITARY CONNECTION INTO BUILDING AT WET WALL BETWEEN BATHROOMS

PROPOSED RESTROOM BUILDING

CONTRACTOR NOTES:

1. ALL WORK TO BE DONE TO TOWN OF EAST LYME WATER AND SEWER DEPARTMENT STANDARDS.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND TYPE OF EXISTING WATER MAIN PRIOR TO THE START OF CONSTRUCTION
3. CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE JOB AND BE RESPONSIBLE FOR THE SAME. NOTIFY SITE PLANNER OF DISCREPANCIES PRIOR TO BEGINNING WORK.
4. STRIP AND STOCKPILE TOPSOIL FOR REUSE ON SITE. SEE NOTE #1 ON SHEET L-1.0.
5. ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE.
6. ANY EXISTING UTILITY LINES TO BE ABANDONED SHALL BE ABANDONED ACCORDING TO UTILITY COMPANY REQUIREMENTS.
7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE STANDARDS.
8. ALL EXCESS MATERIAL, EXCEPT TOPSOIL, SHALL BE LEGALLY DISPOSED OF OUTSIDE THE PROJECT LIMITS.
9. REFERENCE IS MADE IN THESE DOCUMENTS TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816/817 AND SUPPLEMENTS THERETO.
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11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING DURING THE EXECUTION OF HIS WORK
12. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS DEVELOPED FROM THE BEST AVAILABLE INFORMATION. THE ACTUAL LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF EXCAVATION ACTIVITIES.
13. ACCESS AND UTILITIES TO EXISTING FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR MUST MAINTAIN SUFFICIENT TRAVEL LANES, APPROVED BY THE OWNER, TO ENABLE ALL EMERGENCY VEHICLES TO ACCESS THE ENTIRE PROJECT SITE.
14. CONTRACTOR TO VERIFY THAT ALL EXISTING UTILITIES TO BE REUSED ARE FUNCTIONAL.

NOTES:

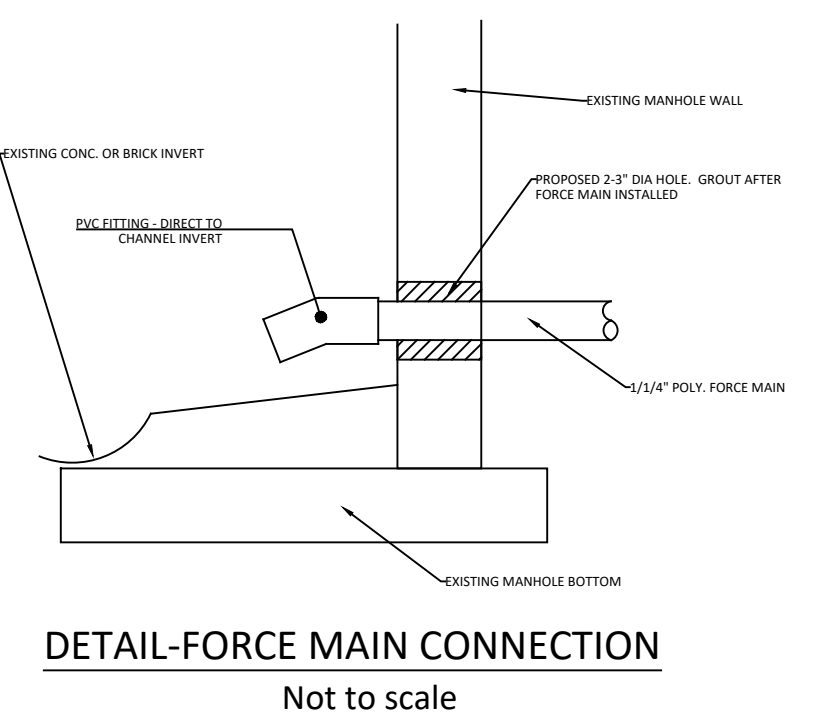
1. ALL WORK TO BE DONE THE TOWN OF EAST LYME WATER AND SEWER DEPARTMENT STANDARDS

NOTES:

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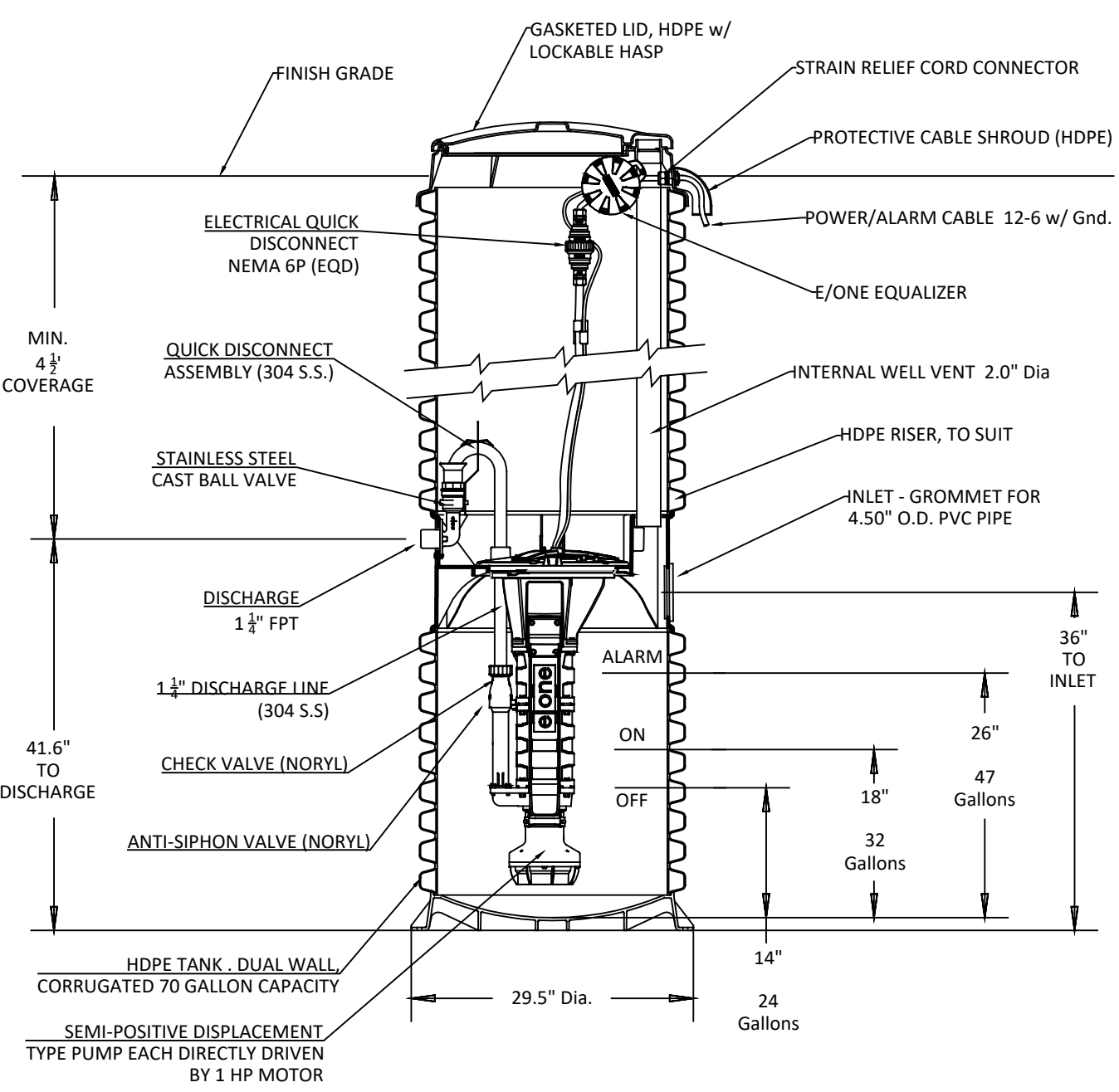
NOTES:

1. All work, materials and specifications shall conform to the requirements of the East Lyme Water Department
2. All taps and connections to water mains shall be made by Water Department Personnel
3. All meters to be installed by the East Lyme Water Department
4. All services shall be inspected by the East Lyme Water Department before they are backfilled.

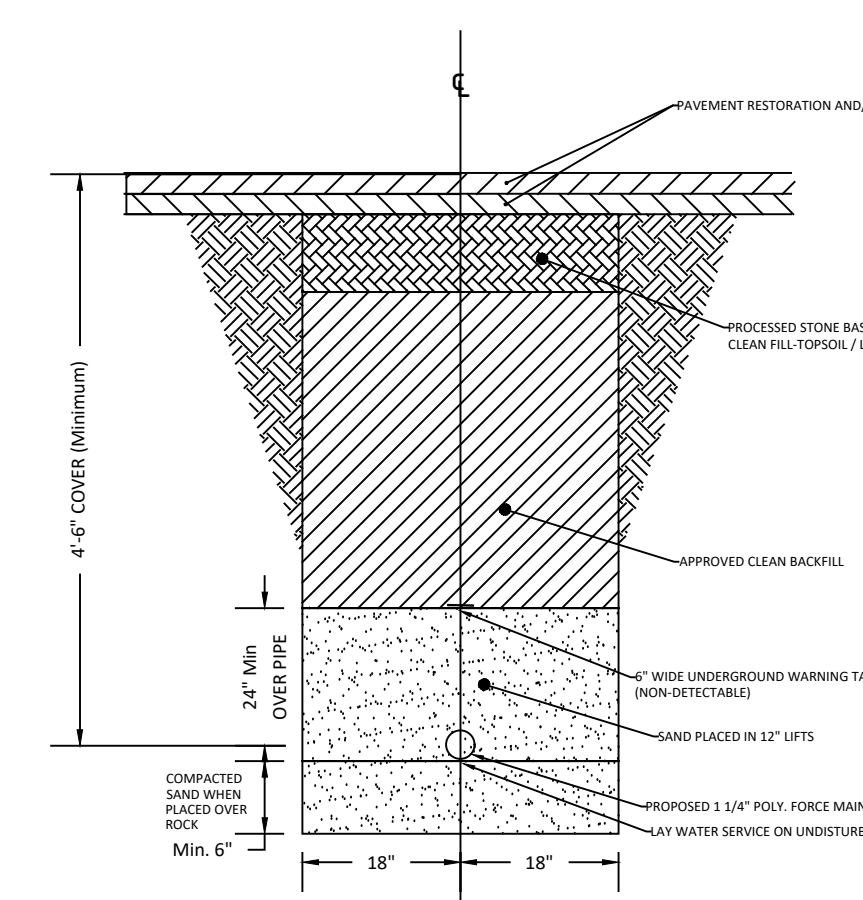


DETAIL-FORCE MAIN CONNECTION
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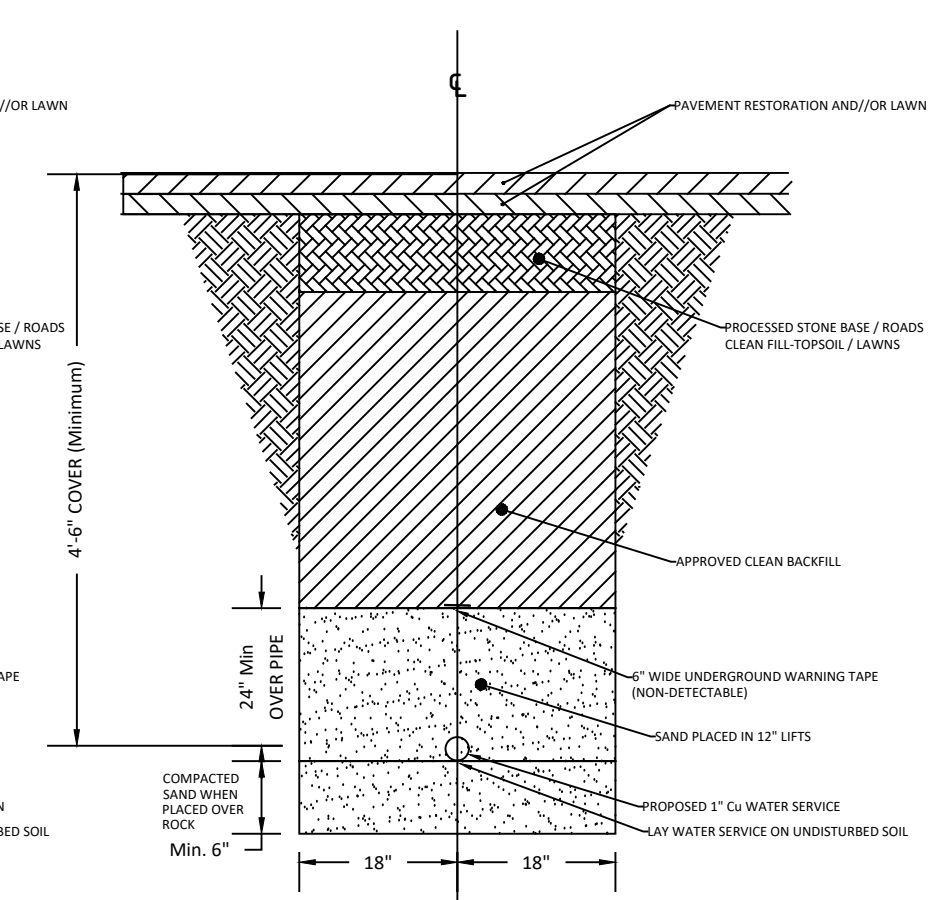
- NOTES:**
1. GRINDER PUMPS SHALL BE PRE-PACKAGE UNIT, INCLUDING TANK, PUMP AND ALARM PACKAGE. USE ENVIRONMENTAL-ONE TYPE OR EQUAL.
 2. UNIT SHALL BE SINGLE PUMP WITH 70 GALLON TANK CAPACITY.
 3. SURFACE GRADES SHALL BE PITCHED AWAY FROM UNIT.
 4. CONCRETE BALLAST MAY BE REQUIRED IN CASES OF HIGH GROUNDWATER. REFER TO INSTALLATION INSTRUCTIONS FOR DETAILS
 5. DIMENSIONS SHALL ARE FOR REFERENCE ONLY.
 6. ALARM PANEL TO BE MOUNTED TO THE ADJACENT BUILDING, IN A LOCATED DETERMINED BY OWNER AND VISIBLE PUBLIC.
 7. VENTING TO BE EXTENDED TO AND MOUNTED TO BUILDING AS REQUIRED, IF NECESSARY



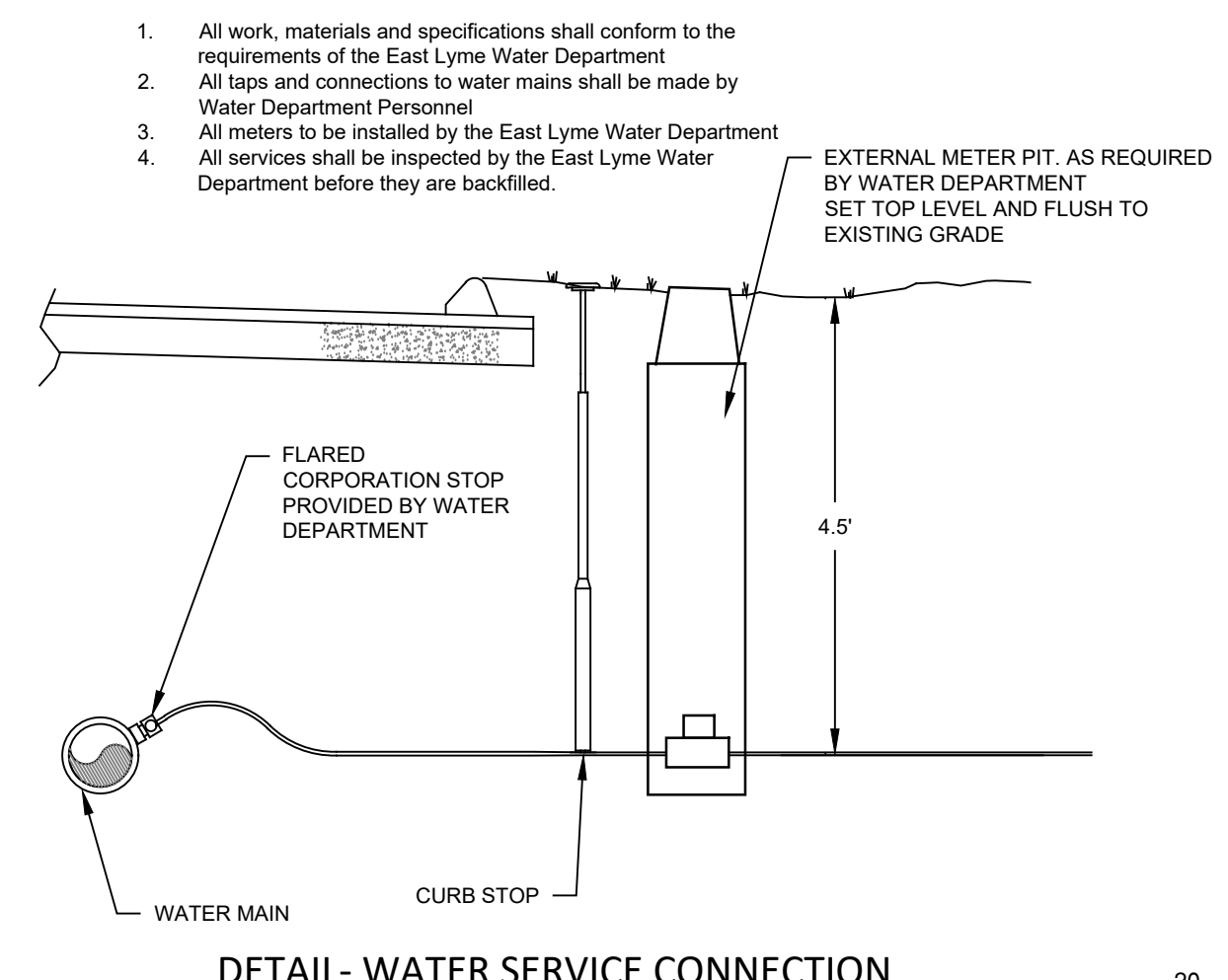
DETAIL-EXTERIOR GRINDER PUMP
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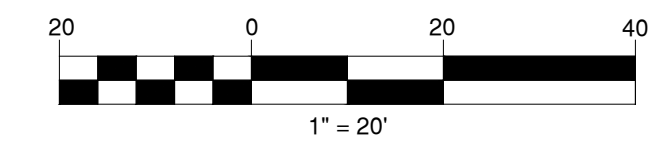
DETAIL-FORCE MAIN TRENCH
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DETAIL-WATER SERVICE TRENCH
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DETAIL-WATER SERVICE CONNECTION
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