

FILE: H:\DWG\Streets\Western Blvd\PW-1101 Multi Use Path Western to House Street - Boardwalk Alt. 3.dwg USER: Steven Troy DATE: 6/6/2019



Town of Glastonbury

2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

TOWN PLAN AND ZONING COMMISSION

SECTION 4.11 FLOOD ZONE SPECIAL PERMIT

APPLICANT/OWNER: RICHARD JOHNSON
TOWN OF GLASTONBURY
2155 MAIN STREET
POST OFFICE BOX 6523
GLASTONBURY, CT 06033

FOR: MULTI-USE TRAIL BETWEEN
HOUSE STREET & WESTERN
BOULEVARD

MOVED, that the Town Plan and Zoning Commission approve the Application of the Town of Glastonbury for a Section 4.11 Flood Zone Special Permit – construction of 2,350± linear feet of paved multi-use path along Salmon Brook sewer easement between House Street and Western Boulevard – Flood Zone, Reserved Land & Planned Employment Zone, in accordance with the following plans:

"PLAN AND PROFILE DEPICTING PROPOSED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT SCALE: AS SHOWN DRAWN BY: S.TROY 6-20-2018
CHECKED BY: S.M.B. 6-20-2018 APPROVED BY: D.A.P. 6-20-2018 ISSUED FOR PERMITTING 1-25-2017
REVISED FOR PERMITTING 6-19-2018 SHEET NO. 5 OF 24"

"PLAN AND PROFILE DEPICTING PROPOSED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT SCALE: AS SHOWN DRAWN BY: S.TROY 6-20-2018
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REVISED FOR PERMITTING 6-19-2018 CT DEEP FISHERIES COMMENTS 10-10-2018 SHEET NO. 6 OF 24"

"PLAN AND PROFILE DEPICTING PROPOSED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT SCALE: AS SHOWN DRAWN BY: S.TROY 6-20-2018
CHECKED BY: S.M.B. 6-20-2018 APPROVED BY: D.A.P. 6-20-2018 ISSUED FOR PERMITTING 1-25-2017
REVISED FOR BOARDWALK CONCEPT 10-16-2017 REVISED FOR PERMITTING 6-19-2018 CT DEEP FISHERIES COMMENTS 10-10-2018 SHEET NO. 7 OF 24"

"PLAN AND PROFILE DEPICTING PROPOSED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT SCALE: AS SHOWN DRAWN BY: S.TROY 6-20-2018
CHECKED BY: S.M.B. 6-20-2018 APPROVED BY: D.A.P. 6-20-2018 ISSUED FOR PERMITTING 1-25-2017
REVISED FOR BOARDWALK CONCEPT 10-16-2017 REVISED FOR PERMITTING 6-19-2018 CT DEEP FISHERIES COMMENTS 10-10-2018 SHEET NO. 8 OF 24"

"PLAN AND PROFILE DEPICTING PROPOSED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT SCALE: AS SHOWN DRAWN BY: S.TROY 6-20-2018
CHECKED BY: S.M.B. 6-20-2018 APPROVED BY: D.A.P. 6-20-2018 ISSUED FOR PERMITTING 1-25-2017
REVISED FOR PERMITTING 6-19-2018 SHEET NO. 9 OF 24"

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REVISED FOR BOARDWALK CONCEPT 10-16-2017 REVISED FOR PERMITTING 6-19-2018 SHEET NO. 9 OF 24"

1. And Compliance with:

- The standards contained in a report from the Fire Marshal, File 19-004, plans reviewed 2-12-19.
- The conditions set forth by the Conservation Commission / Inland Wetlands and Watercourses Agency, in their recommendation for approval to the Town Plan and Zoning Commission and in the Wetlands Permit issued at their Regular Meeting of January 24, 2019.

2. Adherence to:

- The Health Director's Memorandum dated February 12, 2019.
- The Police Department's memorandum dated February 13, 2019.

- Upon completion of the project, the applicant shall provide certification to the Office of Community Development from a licensed professional engineer that the project will not have adverse impacts on the flood carrying capacity of the area within the Flood Zone as described in Section 4.11.4.b of the Building-Zone Regulations.

APPROVED: TOWN PLAN & ZONING COMMISSION
FEBRUARY 19, 2019

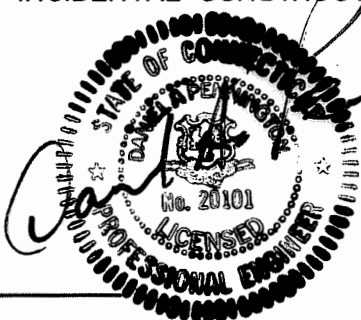
SHARON H. PURTILL, CHAIRMAN

NOTES:

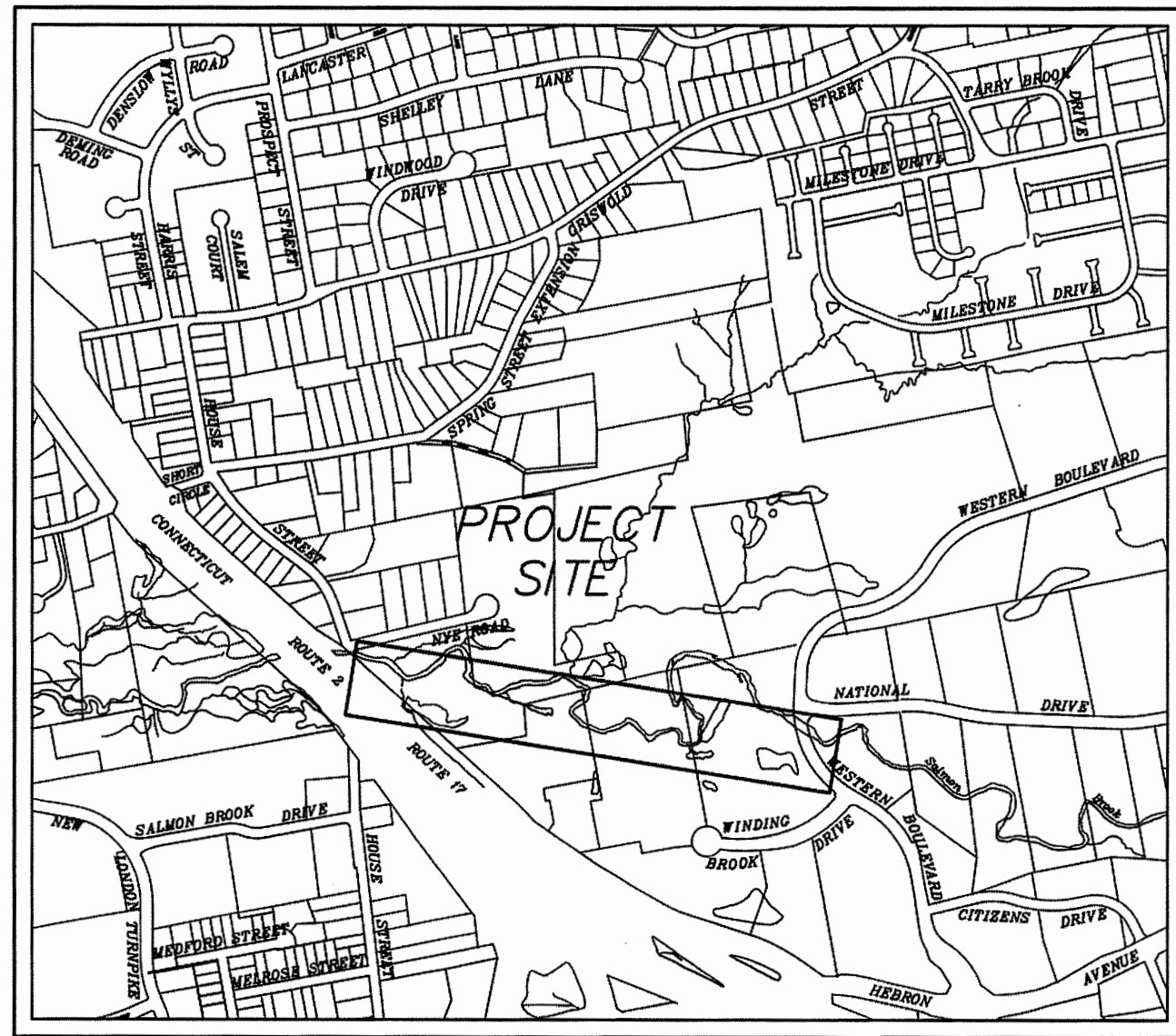
- PROJECT AREA IS ZONED FLOOD ZONE, RESERVED LAND, AND PLANNED EMPLOYMENT.
- PROPOSAL IS FOR CONSTRUCTION OF A MULTI-USE PATH WITH PARKING.
- OWNER: TOWN OF GLASTONBURY. ALL FUTURE MAINTENANCE AFTER CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE TOWN.
- HORIZONTAL COORDINATES ON THIS PROJECT ARE BASED ON NAD83 STATE PLANE.
- VERTICAL ELEVATIONS ON THIS PROJECT ARE BASED ON NAVD88 DATUM.
- TOPOGRAPHY DEPICTED ON THESE PLANS IS FROM A GROUND SURVEY PERFORMED IN MARCH 2016.
- PARCEL IS SUBJECT TO WETLANDS AND UPLAND REVIEW.
- PARCEL IS LOCATED WITHIN A FLOOD HAZARD AREA.
- GOVERNING SPECIFICATIONS ARE THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION, FORM 817 WITH SUPPLEMENTS THERETO DATED JULY, 2016.

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101



PLAN DEPICTING PROPOSED MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT L.O.T.C.I.P. PROJECT # L053-0002 WQC #201701393



LOCATION MAP
SCALE: 1"=100'

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APPROVED WETLANDS PERMIT MOTION

MOVED, that the Inland Wetlands and Watercourses Agency issues an inland wetlands and watercourses permit to the Town of Glastonbury for the construction, use and maintenance of a multi-use trail located generally within a sanitary sewer easement corridor just south of Salmon Brook between House Street and Western Boulevard, in accordance with plans on file in the Office of Community Development, and in compliance with the following conditions:

- Prior to construction all remaining affected landowners that did not provide the Town with their written consent and/or easement documents shall be required.
- Trail construction shall be scheduled for and occur within seasonal time periods where subsurface groundwater levels are expected to be lower and stream flows and/or flooding are statistically less likely; establishment of the project's associated mitigation measures are exempt from the immediately preceding condition of seasonal constraints.
- Installation of soil erosion and sedimentation control and stabilization measures shall be the Permittee's responsibility. Once installed these measures shall then be inspected by the Environmental Planner prior to land disturbance activities. Afterwards it then shall be the Permittee's responsibility to inspect these control measures during, and immediately following, substantial storm events and maintain and/or replace the control measures, when needed, on a regular basis until the site is vegetatively stabilized. Hay bales shall be replaced every 60 days. The Environmental Planner is hereby authorized to require additional soil erosion and sediment controls and stabilization measures to address situations that arise on the site.
- The Permittee shall be fully responsible for damages caused by all activities undertaken pursuant to this permit that may have a detrimental effect on wetlands and/or watercourses, and all such activities that cause erosion and sedimentation problems.
- The mitigation measure developed for the Army Corps of Engineers General Permit, said measure partially protecting the environmentally sensitive abutting town land to the north with a conservation easement, shall be expanded to encompass all of the land east of the tributary watercourse in order to compensate for the wetland impacts of the project.
- The Town Engineer shall provide the Town Environmental Planner with any proposed signage recommendations in advance of sign fabrication and installation.

APPROVED RECOMMENDATION TO THE TOWN PLAN & ZONING COMMISSION

MOVED, that the Conservation Commission recommends to the Town Plan & Zoning Commission approval of a Section 4.11 (Flood Zone) Special Permit concerning the Town of Glastonbury's proposed multi-use trail located on the southerly side of Salmon Brook between House Street and Western Boulevard, in accordance with plans on file in the Office of Community Development, and in compliance with the following conditions:

- Trail construction shall be scheduled for and occur within seasonal time periods where subsurface groundwater levels are expected to be lower and stream flows and/or flooding are statistically less likely; establishment of the project's associated mitigation measures are exempt from the immediately preceding condition of seasonal constraints.
- A professional engineer or a licensed land surveyor shall certify after completion of the project that it resulted in: no incremental fill within the flood zone; and/or no loss of available flood storage capacity.

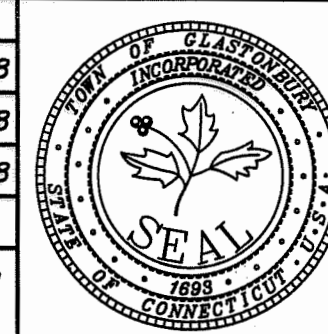
REFERENCE MADE TO THE FOLLOWING MAP ENTITLED:

- "SUBDIVISION PLAN PREPARED FOR GLASTONBURY SCIENCE PARK GLASTONBURY, CONN., REINO E. HYPPA & ASSOCIATES CIVIL ENGINEERS & LAND SURVEYORS GLASTONBURY, CONN., SCALE 1"=40', DATE 6-1-84, MAP NO. 208-83-1, SHEET 1 OF 2 SHEETS, REV. 7-10-84 DRAINAGE EASEMENT ADDED, REV. 10-1-84 MODIFICATIONS PER APPROVAL. MAP IS ON FILE IN THE GLASTONBURY LAND RECORDS AS MAP NUMBER 4170A.
- "RESUBDIVISION OF LOTS 3A AND 4 AND OTHER LAND OF GLASTONBURY PARK ASSOCIATES INTO NEW LOTS 3, 4 AND 5 GLASTONBURY, CT SHEET 2 OF 2, LUCHS & BECKERMAN CIVIL ENGINEERS - PLANNERS - LAND SURVEYORS GLASTONBURY, CONN., A-83-104-S-2, SCALE 1"=40', DATE 11-15-83, REV. 1-4-84: AREA OF LOT NO. 5 INCREASED, REV. 7-10-84: R.O.W.'S IN FAVOR OF LOT 4 SHOWN, REV. 12/20/84 - CONSERVATION EASEMENT ADDED. MAP IS ON FILE IN THE GLASTONBURY LAND RECORDS AS MAP NUMBER 4235.
- TOPOGRAPHIC MAP HOUSE STREET ~ POOL SITE GLASTONBURY, CONN., JOHN J. MOZZUCHI & ASSOCIATES CIVIL ENGINEERS GLASTONBURY, CONN., A-83-78, SCALE 1"=40', DATE 12-8-84, REV. 5-3-85 B'D'Y INFO ADDED. MAP IS ON FILE IN THE GLASTONBURY LAND RECORDS AS MAP NUMBER 1993A.
- "MAP PREPARED FOR SILVER SALMON ASSOC. LIMITED PARTNERSHIP GLASTONBURY, CT., LUCHS & BECKERMAN CIVIL ENGINEERS - PLANNERS - LAND SURVEYORS GLASTONBURY, CONN., A-86-20-AB, SCALE 1"=40', DATE 6/4/87. MAP IS ON FILE IN THE GLASTONBURY LAND RECORDS AS MAP NUMBER 4643.
- "MAP PREPARED FOR CONNECTICUT COMMERCIAL LAND CORP. GLASTONBURY, CT., LUCHS & BECKERMAN CIVIL ENGINEERS - PLANNERS - LAND SURVEYORS GLASTONBURY, CONN., A-91-27, SCALE 1"=40', DATE 6-21-91, REV. 9-13-91 ~ CERTIFICATION, REV. 10-7-91 ~ EASEMENTS, REV. 10-23-91 ~ EASEMENTS. MAP IS ON FILE IN THE GLASTONBURY LAND RECORDS AS MAP NUMBER 5336.

NOTE:

THE CONTRACTOR SHALL NOTIFY THE TOWN OF GLASTONBURY ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREETLINE MONUMENTATION, PROPERTY CORNER PINS, ETC TO SCHEDULE INSPECTIONS! THE DIVISION CAN BE REACHED BETWEEN 8:00-4:30 M-F @ 652-7735

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
		DRAWN BY: S.Troy	6-20-2018
4.	ISSUED FOR CONSTRUCTION	8-8-2019	CHECKED BY: S.M.B. 6-20-2018
3.	CT DEEP FISHERIES COMMENTS	10-10-2018	APPROVED BY: D.A.P. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:
1.	ISSUED FOR PERMITTING	1-25-2017	
NO.	DESCRIPTION	DATE	



**PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

1

OF 24

FILE:H:\DWG\Streets\Western Blvd\PH-101 Multi Use Path\Western to House Street - Boardwalk.dwg, 3.1.dwg USER: Steven Troy DATE: 8/8/2019

PROJECT NARRATIVE:
THIS PROJECT INCLUDES THE CONSTRUCTION OF APPROXIMATELY 2,300 LINEAR FEET OF PAVED MULTI-USE PATH FROM HOUSE STREET TO WESTERN BOULEVARD ALONG AN EXISTING TOWN SANITARY SEWER EASEMENT. ALSO INCLUDED IN THE PROJECT IS A PAVED PARKING LOT FOR 10 VEHICLES AT THE HOUSE STREET END OF THE PATH AND A 165 FOOT-LONG PRECAST CONCRETE BOARDWALK. THE PROJECT AREA IS PRIMARILY WITHIN WETLANDS AND FLOOD ZONE AREAS ASSOCIATED WITH SALMON BROOK. AND SPECIFIC REQUIREMENTS RELATED TO WORK WITHIN THESE AREAS ARE DESCRIBED IN THE FOLLOWING PARAGRAPHS. THE TOTAL DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.8 ACRES, WHICH INCLUDES BOTH UPLAND AND TEMPORARILY DISTURBED AREAS.

FOR CONSTRUCTION PURPOSES, THE PROPOSED WIDTH OF THE MULTI-USE PATH IS NOT INTENDED TO ACCOMMODATE TWO-WAY CONSTRUCTION TRAFFIC. AS SUCH, CONSTRUCTION VEHICLES WILL BE REQUIRED TO MAKE LONG BACKING MANEUVERS TO REACH SOME AREAS OF THE PATH.

CONSTRUCTION SEQUENCE:

1. INSTALL STONE CONSTRUCTION ENTRANCES AT HOUSE STREET AND WESTERN BOULEVARD AS SHOWN ON THE PLANS. NOTE THAT NO CONSTRUCTION ACCESS SHALL BE ALLOWED BETWEEN STATIONS 17+10 AND 18+75 EXCEPT AS REQUIRED FOR BOARDWALK CONSTRUCTION. AS SUCH, ACCESS TO PATH AREAS BETWEEN STATION 18+75 AND WESTERN BOULEVARD SHALL BE FROM THE WESTERN BOULEVARD END OF THE PROJECT ONLY. ACCESS TO AREAS WEST OF STATION 17+10 SHALL BE FROM THE HOUSE STREET END OF THE PROJECT.

2. STAKE LIMITS OF SILT FENCE / CLEARING LIMITS FOR THE PROJECT. FLAG TREES ALONG PERIMETER FOR PROTECTION IN CONSULTATION WITH TOWN STAFF. FLAG TREES WITHIN CLEARING LIMITS FOR USE AS ROADWAYS FOR STREAM BANK STABILIZATION WORK. HARVEST THESE TREES SEPARATELY (RETAIN 15' LONG TRUNK WITH ROOTWAD ATTACHED) AND STOCKPILE THEM IN THE STAGING AREA AT HOUSE STREET.

3. INSTALL PERIMETER EROSION CONTROLS THROUGHOUT ENTIRE PROJECT LIMITS, INCLUDING SILT SACKS IN ADJACENT CATCH BASINS IN HOUSE STREET AND WESTERN BOULEVARD. INSTALL SILT FENCE PERIMETER AT THE STAGING AREA FOR CONSTRUCTION EQUIPMENT PARKING AT THE END OF EACH WORK DAY TO PREVENT REPTILES FROM ACCESSING THE EQUIPMENT STORAGE AREA.

4. EXCAVATE PARKING LOT AREA TO SUBGRADE ELEVATION AND INSTALL SUBBASE IN PARKING LOT FOR USE AS STAGING AREA. WATER QUALITY SWALE FOR PARKING LOT TO BE CONSTRUCTED AS PART OF TASK 7 TO MAXIMIZE STAGING AREA DURING EARTHWORK PHASE OF CONSTRUCTION.

5. PERFORM CLEARING AND GRUBBING FOR REMAINING TREES WITHIN PROJECT LIMITS.

6. INSTALL UNDERDRAINS WITH OUTLETS WHERE SHOWN ON PLANS TO HELP DEWATER SUBSOILS PRIOR TO PERFORMING PATH EXCAVATION. PERFORM EARTHWORK AND DRAINAGE IMPROVEMENTS FOR THE WESTERN SECTION OF PATH PROCEEDING FROM THE HOUSE STREET STAGING AREA EASTWARD TO THE BOARDWALK AT STATION 17+10. STRIP TOPSOIL AND BOULDER PATH TO SUBGRADE ELEVATION. FORM EMBANKMENTS ON BOTH SIDES OF PATH WITH BORROW. DISPOSE OF EXCESS EXCAVATED MATERIAL AT THE TOWN BULKY WASTE FACILITY OR ANOTHER SUITABLE DISPOSAL SITE APPROVED BY THE TOWN. STOCKPILE EXCAVATED WETLAND TOPSOIL IN STAGING AREA FOR RE-USE IN WATER QUALITY SWALES. OTHER TOPSOIL MAY BE STOCKPILED IN THE STAGING AREA AS SPACE PERMITS OR DISPOSED OF OFF-SITE. FORM SUBGRADE, INSTALL SUBBASE AND UNDERDRAINS AS WORK PROCEEDS EASTERLY FROM HOUSE STREET TO THE PROPOSED BOARDWALK AT STATION 17+10. INSTALL TEMPORARY CHECK DAMS AT EACH CULVERT OUTLET LOCATION PRIOR TO BEGINNING CULVERT CONSTRUCTION. INSTALL CULVERTS, OUTLET PROTECTION, AND DISCHARGE SWALES AS SHOWN ON THE PLANS PRIOR TO CONTINUING EASTWARD PAST THE CULVERT LOCATION WITH ADDITIONAL FORMATION OF SUBGRADE AND SUBBASE INSTALLATION WORK. PROVIDE MINIMUM 12" COVER OVER EACH CULVERT TO PROTECT PIPES FROM CONSTRUCTION EQUIPMENT LOADS UNTIL REMAINDER OF PAVEMENT SECTION IS INSTALLED. INSTALL HAYBALE CHECK DAMS AT CULVERT INLETS AND WITHIN SWALES AS SHOWN ON THE PLANS UPON COMPLETION OF EACH CULVERT AND SWALE INSTALLATION.

7. CONSTRUCT WATER QUALITY SWALE AT PARKING LOT. TOPSOIL AND SEED ALL WATER QUALITY SWALES TO ESTABLISH VEGETATION WELL IN ADVANCE OF INSTALLATION OF PROCESS STONE BASE AND PAVEMENT. USE EXCAVATED WETLAND TOPSOIL ON THE BOTTOM OF EACH WATER QUALITY SWALE.

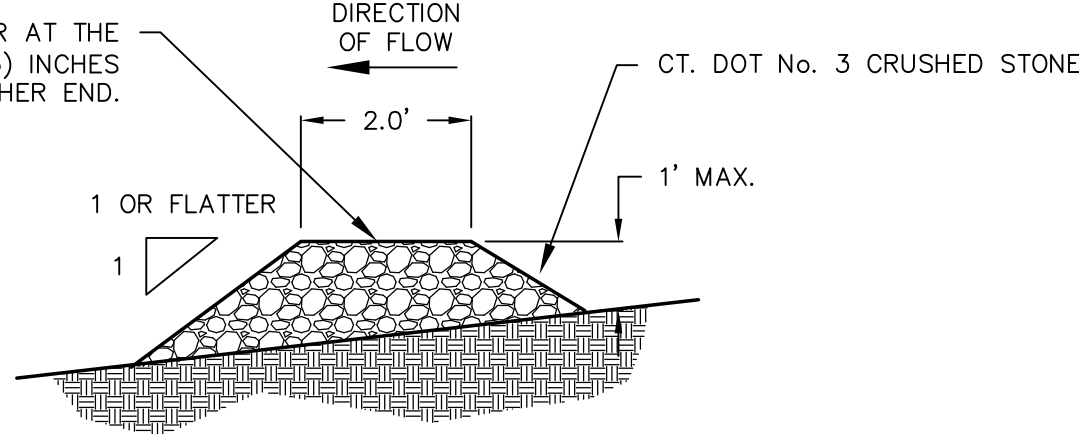
8. PERFORM EARTHWORK AND DRAINAGE IMPROVEMENTS FOR THE EASTERN SECTION OF THE PATH, STARTING FROM WESTERN BOULEVARD AND PROCEEDING WESTWARD TO THE PROPOSED BOARDWALK AT STATION 18+75. FOLLOW SEQUENCE OF CONSTRUCTION AS OUTLINED IN TASK 6.

9. CONSTRUCT BOARDWALK BETWEEN STATION 17+10 AND 18+75 ACCESSING THIS AREA FROM THE WESTERN BOULEVARD END OF THE PROJECT.

10. AFTER COMPLETING INSTALLATION OF SUBBASE, UNDERDRAINS, CULVERTS, AND OUTLET PROTECTION THROUGHOUT PROJECT LIMITS, PERFORM STREAM BANK STABILIZATION WORK AT 4 AREAS SHOWN. CT DEEP FISHERIES SHALL BE CONTACTED TWO WEEKS PRIOR TO INITIATING WORK WITHIN THE CHANNEL TO REVIEW PERMIT CONDITIONS AND FINALIZE THE LAYOUT OF BOULDERS AND ROOTWADS IN EACH STABILIZATION AREA. WORK WITHIN THE CHANNEL SHALL BE PERFORMED DURING LOW-FLOW CHANNEL CONDITIONS AND WITHIN THE ALLOWABLE TIME PERIODS STIPULATED IN THE VARIOUS ENVIRONMENTAL PERMITS INCLUDED IN THE PROJECT SPECIFICATIONS.

11. INSTALL PROCESSED STONE BASE COURSE THROUGHOUT PROJECT LIMITS. PAVE BINDER AND SURFACE COURSE THROUGHOUT PROJECT LIMITS. INSTALL ALL SIGNS AND PAVEMENT MARKINGS.

12. COMPLETE INVASIVE SPECIES REMOVAL WITHIN DESIGNATED AREAS. TOPSOIL AND SEED ALL DISTURBED AREAS. INSTALL WETLAND PLANTINGS WITHIN AREAS SHOWN ON THE PLANS.



NOTES:

1. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT PASS AROUND THE ENDS.
2. REPAIR OR REPLACE PROMPTLY AS NEEDED.
3. THE BARRIER SHALL BE COMPLETELY REMOVED WHEN IT HAS SERVED ITS USEFULNESS UNLESS OTHERWISE NOTED.

STONE CHECK DAM DETAIL
NOT TO SCALE

PROJECT SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN
CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

1. TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS AS REQUIRED TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.

2. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.

3. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED WITHIN WETLAND OR FLOOD ZONE AREAS OR ADJACENT TO STORM DRAIN INLETS. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN FLOOD ZONE OR WETLAND AREAS, THESE MATERIALS SHALL BE ADEQUATELY PROTECTED AS DIRECTED BY THE ENGINEER, AND A PLAN SHALL BE IN PLACE TO REMOVE THE MATERIAL PRIOR TO THE NEXT FORECASTED SEVERE WEATHER EVENT. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN THE APPROVED STAGING AREA SHOWN ON THE PLANS, AND SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.

4. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.

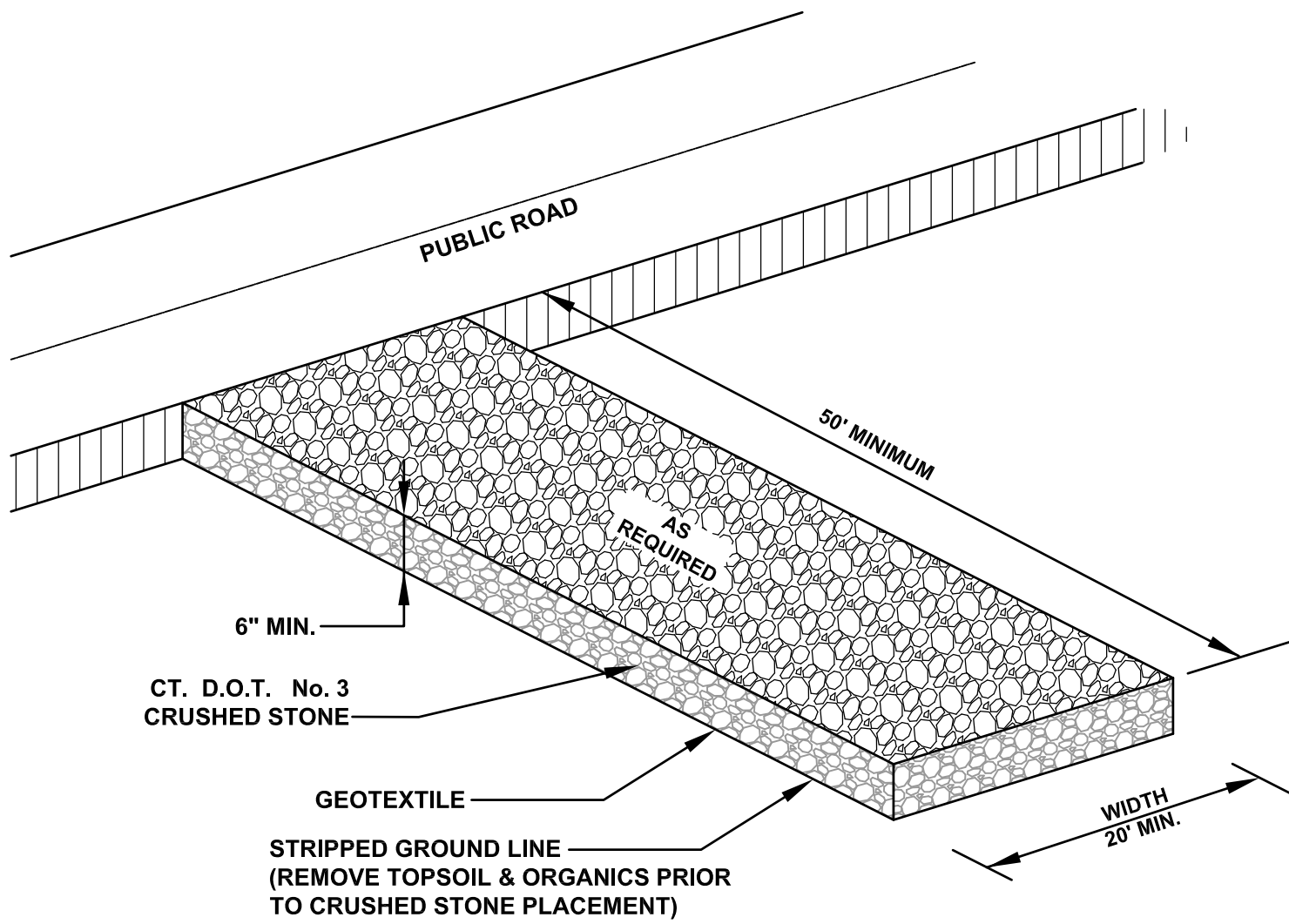
5. DRAINAGE WAYS: CONSTRUCTION OF DITCHES, CHANNELS, THAT ACTIVELY CONVEY FLOW SHALL BE PERFORMED SUCH THAT THE PORTION OF DRAINAGE WAY DISTURBED DURING A GIVEN DAY IS COMPLETED WITH THE PERMANENT LINING BY DAYS END, OR OTHERWISE AS NECESSARY TO PROVIDE FOR TEMPORARY BYPASS OF STORMWATER AND ENSURE THAT DOWNSTREAM WETLAND AREAS ARE PROTECTED FROM SEDIMENTATION AND EROSION OF THE CHANNEL.

6. CULVERTS CONVEYING WATERCOURSES: CULVERTS CONVEYING WATERCOURSES SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO PROVIDE A TEMPORARY BYPASS OF THE WORK AREA THROUGH A TEMPORARY PIPE OR OTHER MEANS APPROVED BY THE ENGINEER AT THE END OF EACH WORK DAY AS REQUIRED TO CONVEY STORMWATER THROUGH THE WORK AREA AND ENSURE THAT DOWNSTREAM WETLAND AREAS ARE PROTECTED FROM SEDIMENTATION AND EROSION.

7. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY. THE MAJORITY OF THE WORK AREA FOR THIS PROJECT IS BELOW THE 100 YEAR FLOOD ELEVATION FOR SALMON BROOK. CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND FLOOD WARNINGS AND ADJUST OPERATIONS ACCORDINGLY. ALL EQUIPMENT AND STOCKPILED MATERIALS SHALL BE REMOVED FROM THE FLOOD ZONE PRIOR TO AN ANTICIPATED FLOOD EVENT AS PROJECTED FLOOD ELEVATIONS REQUIRE. WORK AREAS SHALL BE STABILIZED AS REQUIRED TO PROVIDE A STABLE OVERFLOW PATH FOR FLOOD WATER THROUGH OR AROUND THE WORK AREA.

RESPONSIBLE PARTIES:

THE CONTRACTOR SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.



CONSTRUCTION ENTRANCE
NOT TO SCALE

GENERAL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND 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 ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM IN GRASSED AREAS OR WITH A SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIRONMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

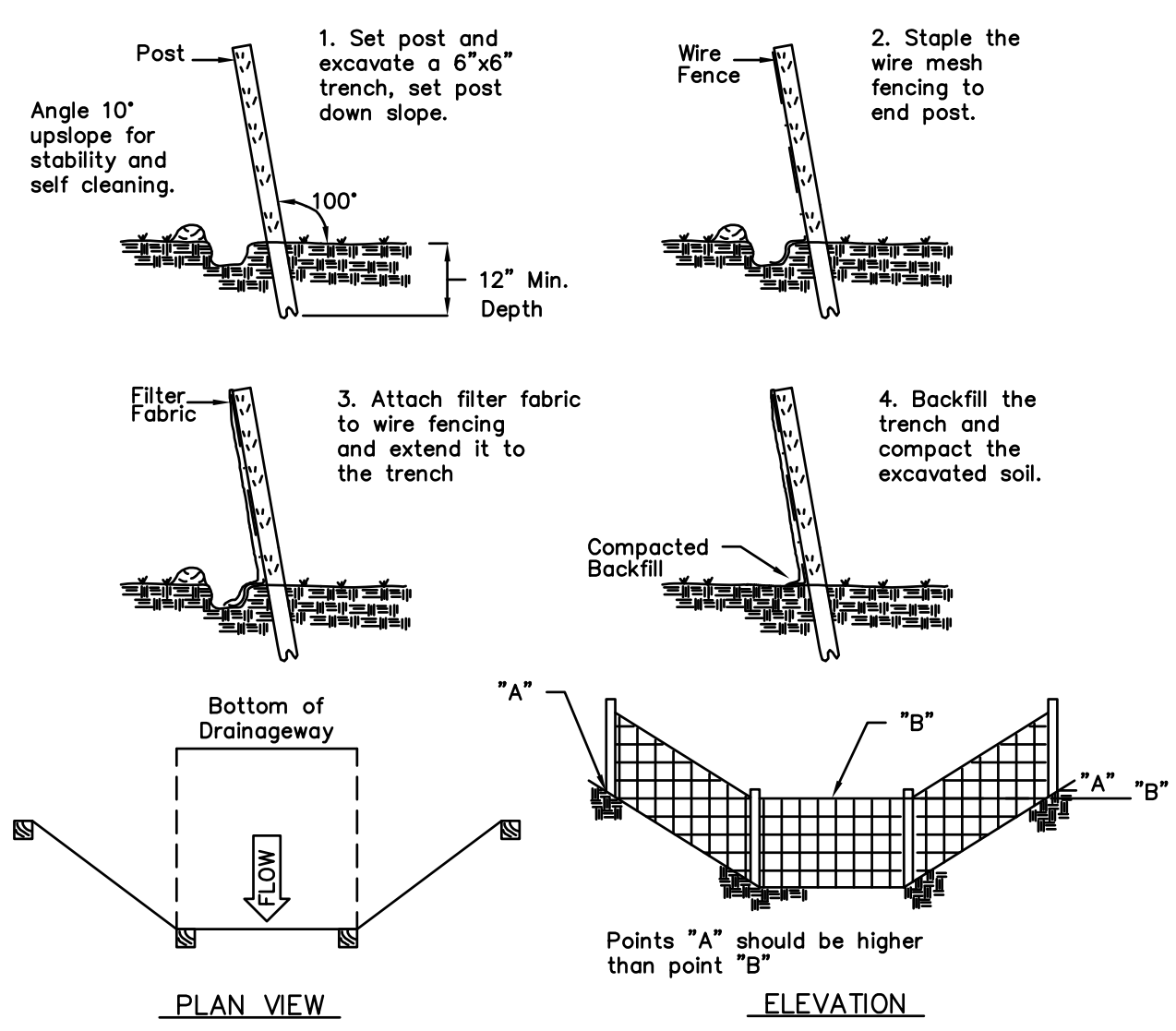
POST CONSTRUCTION MAINTENANCE PLAN FOR STORMWATER FACILITIES

GENERAL: THE PROPOSED DRAINAGE SYSTEM TO BE INSTALLED AS PART OF THIS PROJECT INCLUDES CROSS CULVERTS AND WATER QUALITY SWALES WHICH WILL REQUIRE ROUTINE MAINTENANCE IN ORDER TO MAINTAIN PROPER FUNCTION. THE TOWN OF GLASTONBURY PARKS DEPARTMENT WILL BE RESPONSIBLE FOR MOWING AND MAINTENANCE OF VEGETATION FOR THE MULTI-USE TRAIL AND THE PROPOSED SWALES. THE PARKING LOT, CULVERTS, AND OTHER DRAINAGE FEATURES WILL BE MAINTAINED BY THE TOWN OF GLASTONBURY HIGHWAY DEPARTMENT.

PARKING LOT SWEEPING: SWEEPING IS PERFORMED EVERY YEAR IN THE SPRING AS PART OF THE TOWN'S ANNUAL STREET MAINTENANCE. ADDITIONAL SWEEPING WILL BE PERFORMED ON AN AS NEEDED BASIS TO ADDRESS SEDIMENT IN THE PARKING LOT.

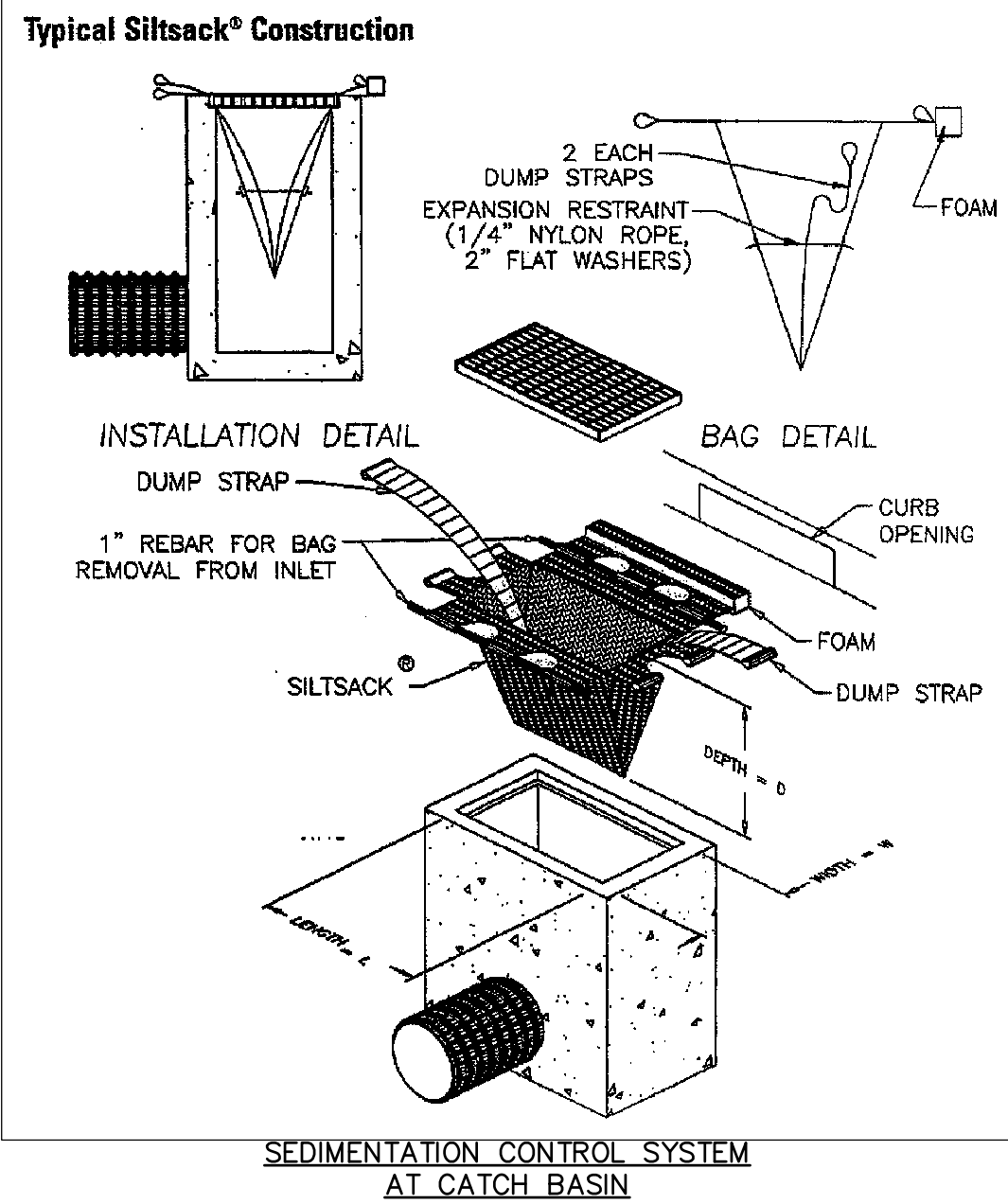
CULVERTS: INSPECTIONS WILL BE PERFORMED ANNUALLY AND STRUCTURES WILL BE CLEANED AT THE FREQUENCY DICTATED BY THE RATE OF SEDIMENT BUILD UP.

WATER QUALITY SWALES: WATER QUALITY SWALES WILL BE MOWED AS NECESSARY TO PREVENT WOODY GROWTH WITHIN THE SWALES WHICH WOULD INHIBIT FLOW AND FUNCTION. THESE SWALES WILL BE INSPECTED ANNUALLY FOR SIGNS OF SEDIMENT DEPOSITS OR EROSION AND CLEANED OR REPAIRED AS NECESSARY.

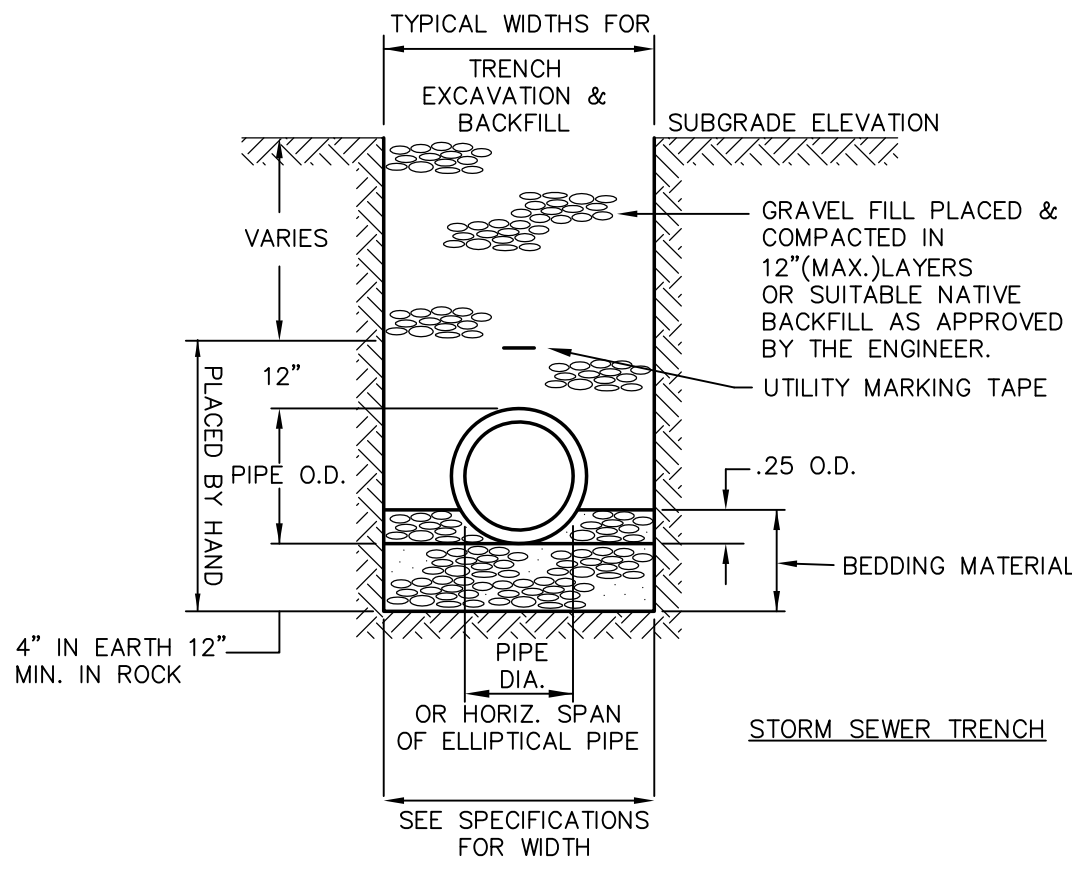


Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

**SEDIMENTATION CONTROL
FILTER FABRIC FENCE SYSTEM**



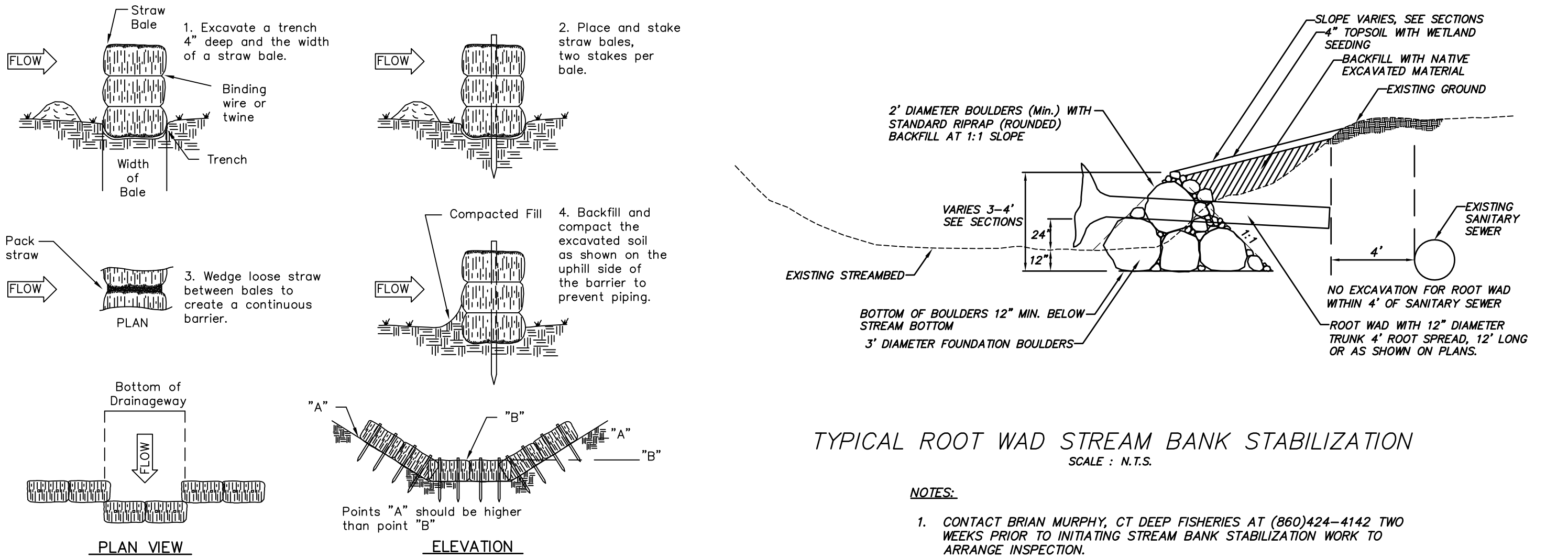
**SEDIMENTATION CONTROL
AT CATCH BASIN**



NOTES:

1. ALL CONCRETE PIPE TO BE MINIMUM CLASS IV UNLESS OTHERWISE SPECIFIED.
2. USE WATERTIGHT RUBBER GASKETS IN ALL PIPE JOINTS.
3. PIPE BEDDING MATERIALS SHALL BE SAND OR SANDY SOIL, ALL OF WHICH PASSES 3/8" SIEVE AND <10% PASSING NO. 200 SIEVE.
4. WHEN GROUND WATER IS ENCOUNTERED, 3/4" STONE SHALL BE SUBSTITUTED FOR PIPE BEDDING, AND BACKFILLED TO 12" ABOVE THE TOP OF PIPE.

TYPICAL STORM DRAIN TRENCH
NOT TO SCALE



NOTES:

1. CONTACT BRIAN MURPHY, CT DEEP FISHERIES AT (860)424-4142 TWO WEEKS PRIOR TO INITIATING STREAM BANK STABILIZATION WORK TO ARRANGE INSPECTION.
2. "UNCONSTRICTED" IN STREAM WORK IS RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.

Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

**SEDIMENTATION CONTROL
HAY BALE SYSTEM**

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
5.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy 6-20-2018
4.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B. 6-20-2018
3.	CT DEEP FISHERIES COMMENTS	10-10-2018	APPROVED BY: D.A.P. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:
1.	ISSUED FOR PERMITTING	1-25-2017	
NO.	DESCRIPTION	DATE	



**NOTES AND DETAILS
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

2

OF 24

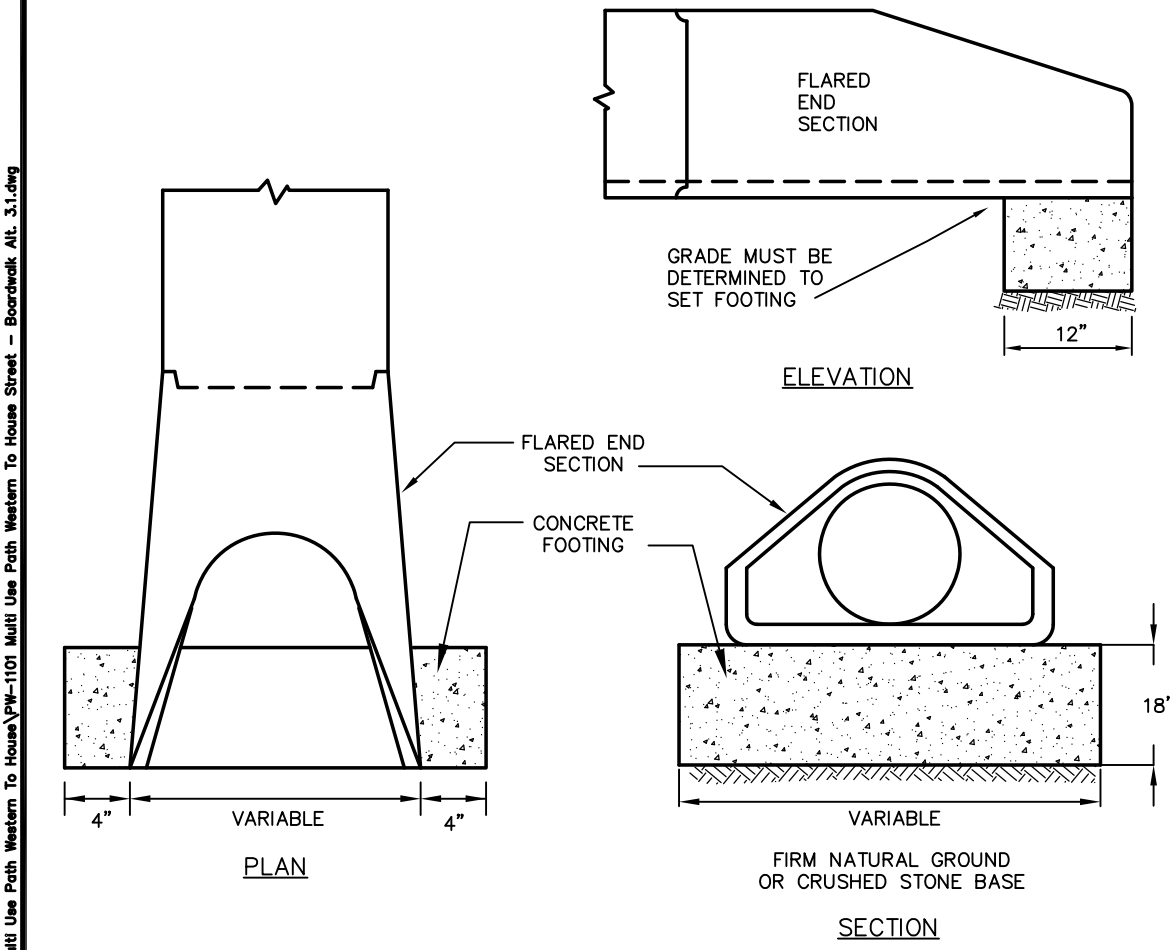
Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

FILE: H:\DWG\Streets\Western Blvd\PH-101 Multi Use Path Western to House Street - Boardwalk, Alt. 3.1.dwg USER: Steven Troy DATE: 8/8/2019

NOTES:

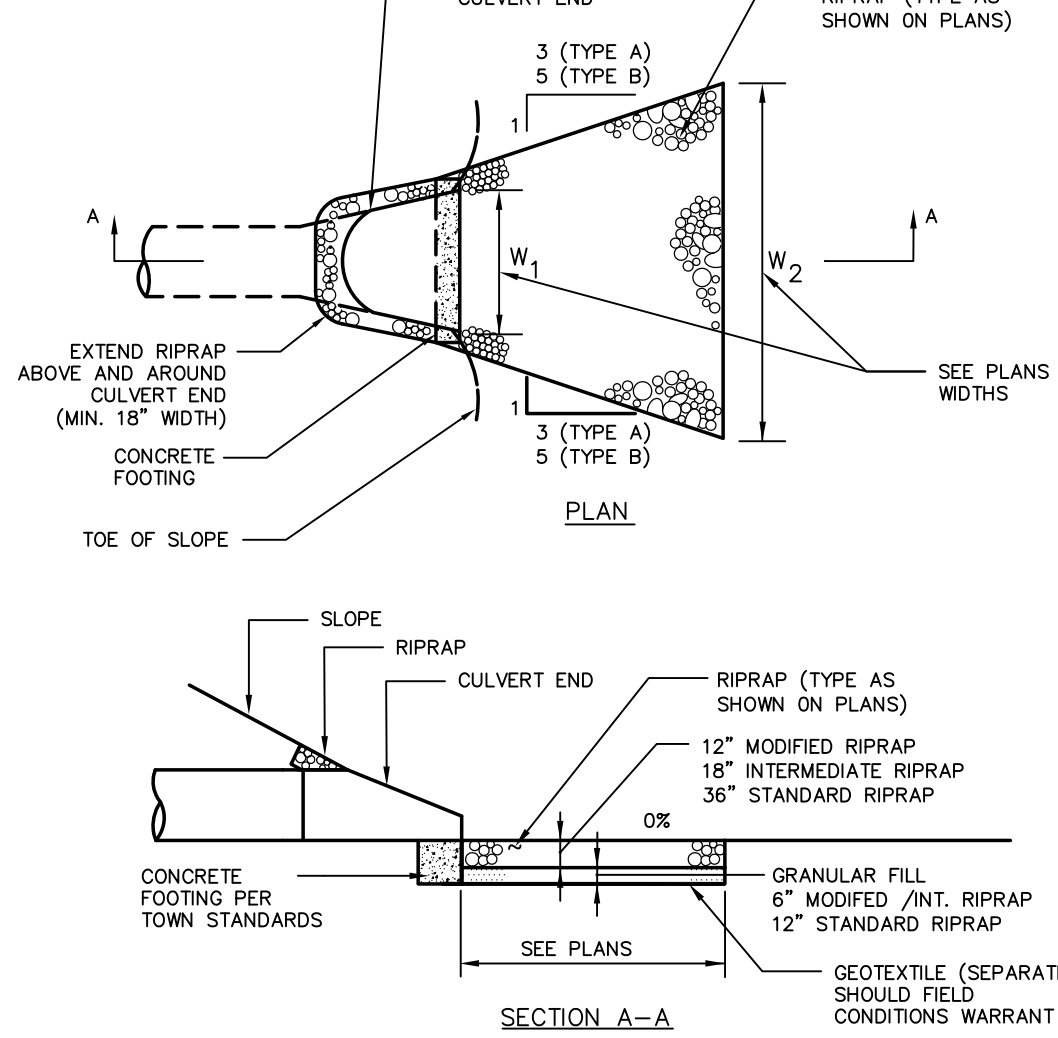
1. FOOTING BASE MAY BE CONSTRUCTED OF POURED IN PLACE CONCRETE OR PRECAST C.B. BLOCKS SET LEVEL WITH FULL MORTARED JOINTS.
2. THE FOOTING SHALL BE USED ON BOTH INLET AND OUTLET SECTIONS, THE PRIME FUNCTION IS TO PREVENT EROSION AND SETTLEMENT.



SCALE: NONE
DRAWN BY: SR
CHECKED BY: SMI
APPROVED BY: DAP
LAST REVISION: 4/29/2008



TOWN OF GLASTONBURY
DEPARTMENT OF PHYSICAL SERVICES
ENGINEERING DIVISION
CONCRETE FOOTING FOR
FLARED END SECTION
PLATE NO. 24



RIPRAP SPECIFICATION

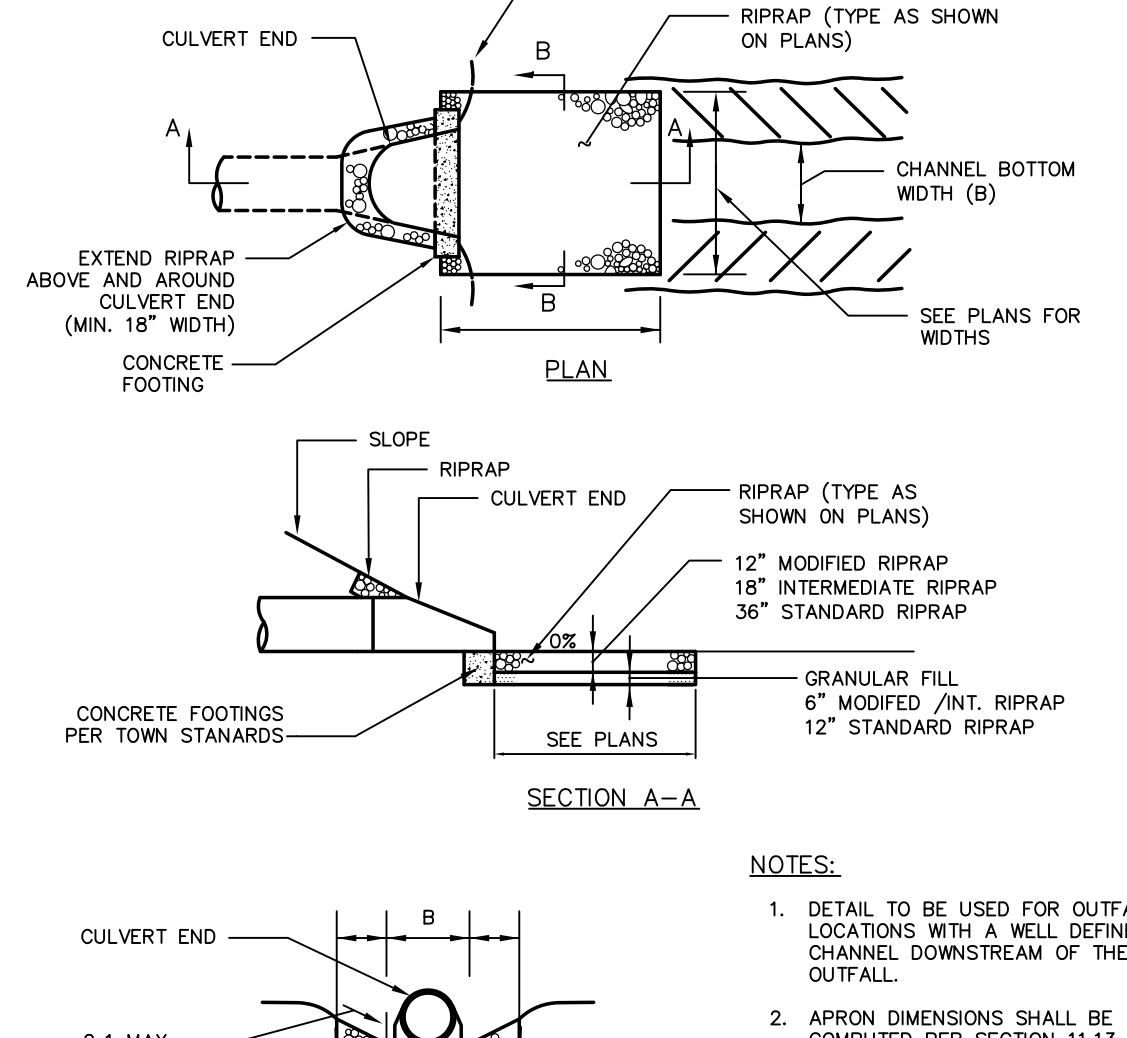
OUTLET VELOCITY	RIPRAP TYPE
0-8 FPS	MODIFIED
8-10 FPS	INTERMEDIATE
10-14 FPS	STANDARD



SCALE: NONE
DRAWN BY: SR
CHECKED BY: SMI
APPROVED BY: DAP
LAST REVISION: 9/1/2016



TOWN OF GLASTONBURY
DEPARTMENT OF PHYSICAL SERVICES
ENGINEERING DIVISION
RIPRAP APRON
TYPE A AND TYPE B
PLATE NO. 25



NOTES:

1. DETAIL TO BE USED FOR OUTFALL LOCATIONS WITH A WELL DEFINED CHANNEL DOWNSTREAM OF THE OUTFALL.
2. APRON DIMENSIONS SHALL BE COMPUTED PER SECTION 11.13 OF THE CONDOT DRAINAGE MANUAL.

RIPRAP SPECIFICATION

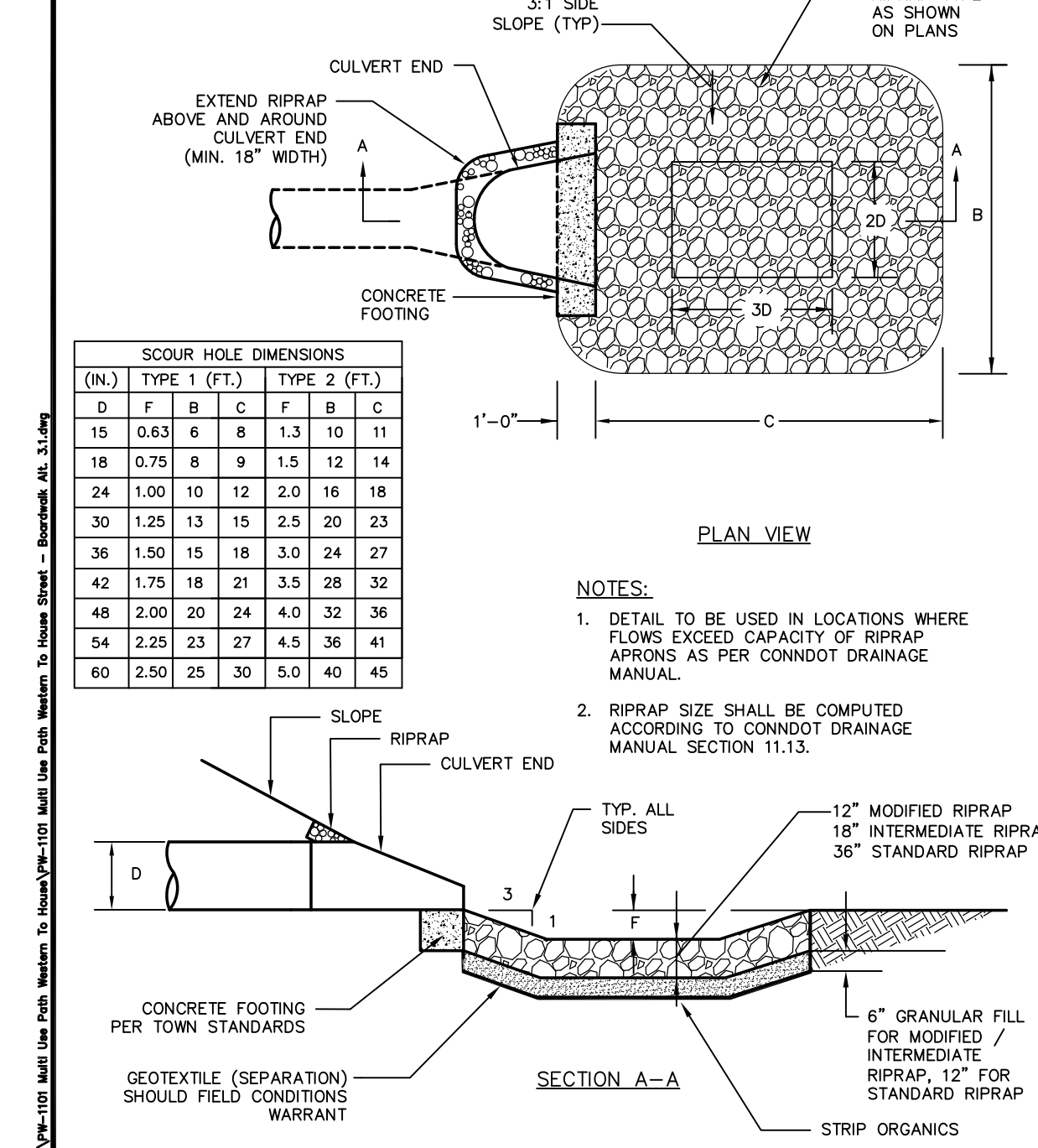
OUTLET VELOCITY	RIPRAP TYPE
0-8 FPS	MODIFIED
8-10 FPS	INTERMEDIATE
10-14 FPS	STANDARD



SCALE: NONE
DRAWN BY: SR
CHECKED BY: SMI
APPROVED BY: DAP
LAST REVISION: 9/1/2016



TOWN OF GLASTONBURY
DEPARTMENT OF PHYSICAL SERVICES
ENGINEERING DIVISION
RIPRAP APRON
TYPE C
PLATE NO. 26



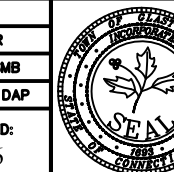
(N.)	TYPE 1 (FT.)	TYPE 2 (FT.)
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1	0.63	0.63
2	0.63	0.63
3	0.63	0.63
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5	0.63	0.63
6	0.63	0.63
7	0.63	0.63
8	0.63	0.63
9	0.63	0.63
10	0.63	0.63
11	0.63	0.63
12	0.63	0.63
13	0.63	0.63
14	0.63	0.63
15	0.63	0.63
16	0.63	0.63
17	0.63	0.63
18	0.63	0.63
19	0.63	0.63
20	0.63	0.63
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38	0.63	0.63
39	0.63	0.63
40	0.63	0.63
41	0.63	0.63
42	0.63	0.63
43	0.63	0.63
44	0.63	0.63
45	0.63	0.63

NOTES:

1. DETAIL TO BE USED IN LOCATIONS WHERE FLOWS EXCEED CAPACITY OF RIPRAP APRONS AS PER CONDOT DRAINAGE MANUAL.
2. RIPRAP SIZE SHALL BE COMPUTED ACCORDING TO CONDOT DRAINAGE MANUAL SECTION 11.13.



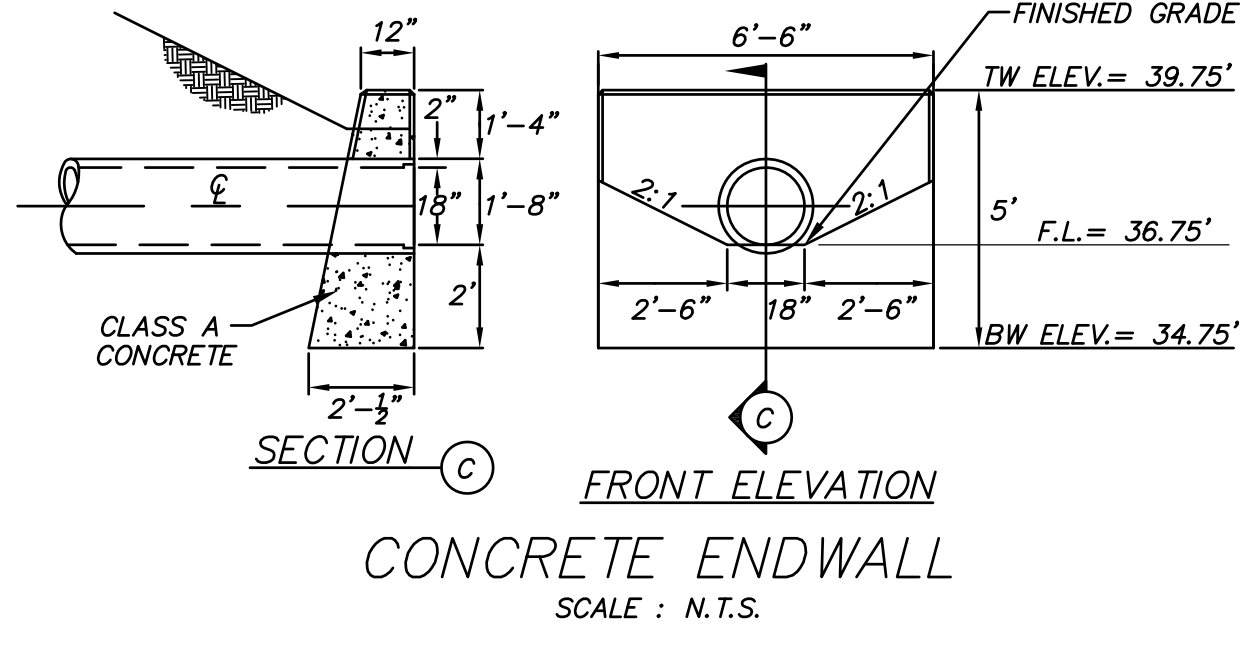
SCALE: NONE
DRAWN BY: SR
CHECKED BY: SMI
APPROVED BY: DAP
LAST REVISION: 9/1/2016



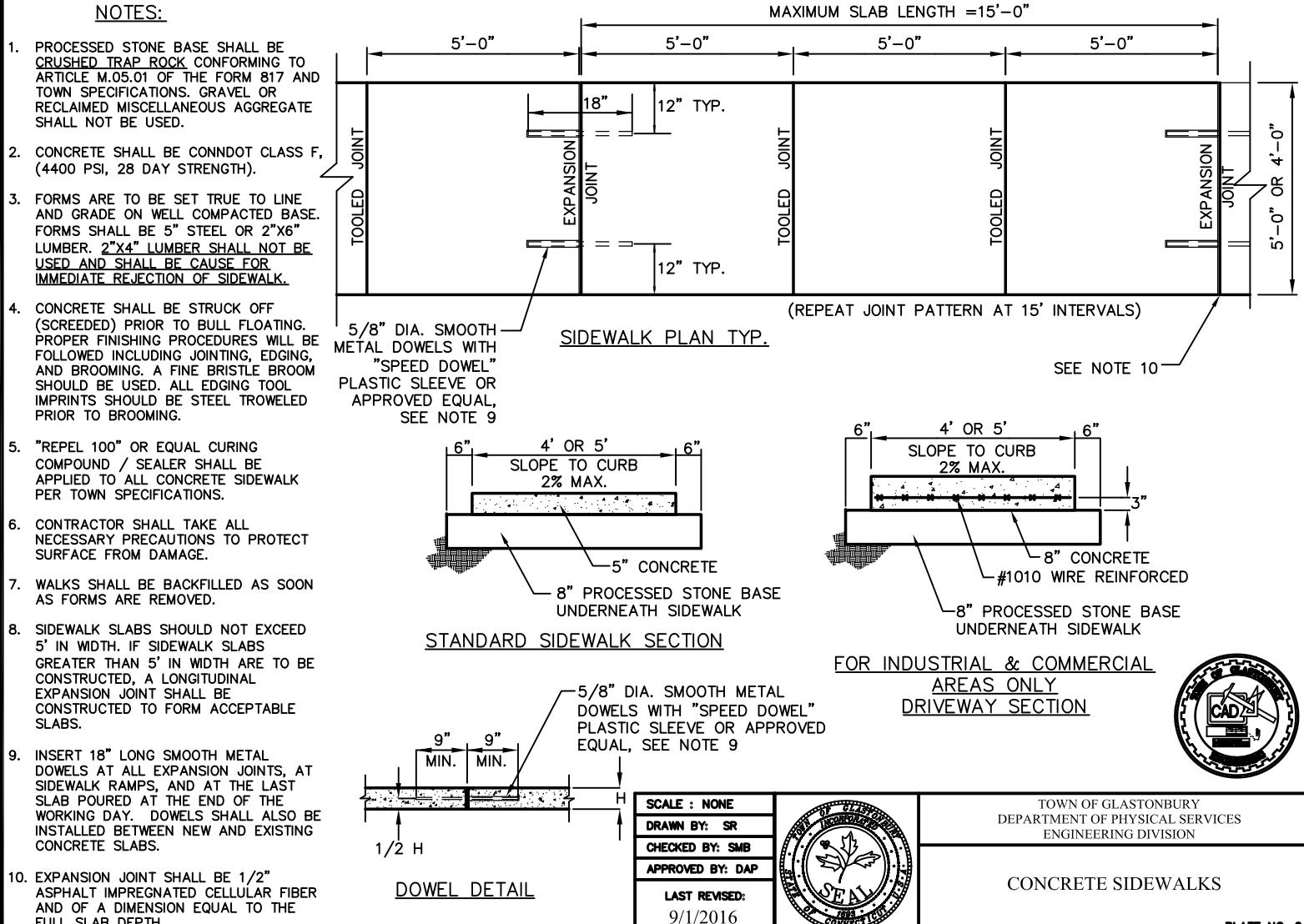
TOWN OF GLASTONBURY
DEPARTMENT OF PHYSICAL SERVICES
ENGINEERING DIVISION
PREFORMED SCOUR HOLE
TYPE 1 & TYPE 2
PLATE NO. 27

NOTE:

1. ALL EDGES OF EXPOSED SURFACES SHALL BE CHAMFERED APPROXIMATELY 1".



FRONT ELEVATION
SCALE: N.T.S.



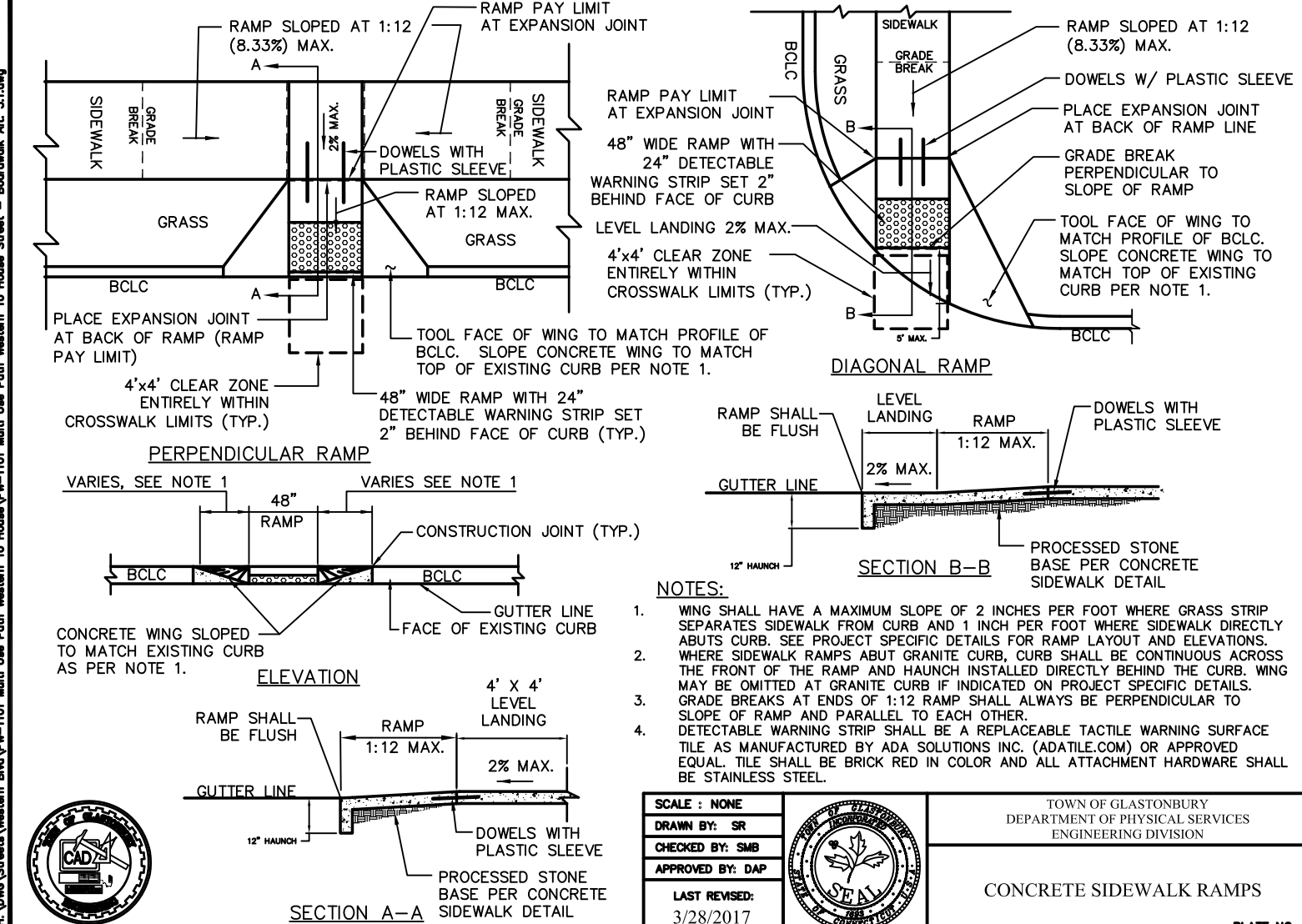
STANDARD SIDEWALK SECTION

FOR INDUSTRIAL & COMMERCIAL AREAS ONLY

DRIVEWAY SECTION

CONCRETE SIDEWALKS

PLATE NO. 8

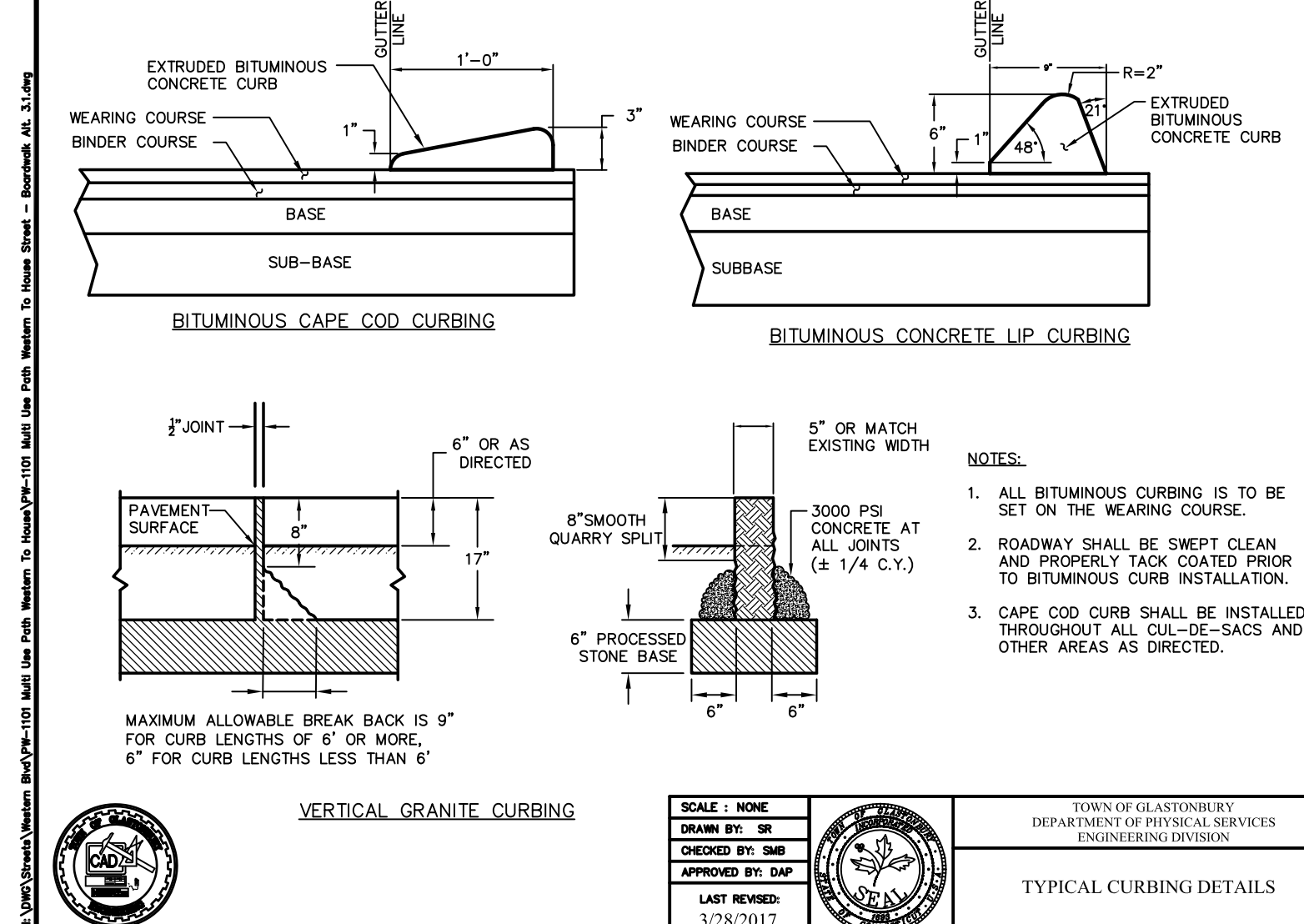


PERPENDICULAR RAMP

SECTION A-A

CONCRETE SIDEWALK RAMP

PLATE NO. 7

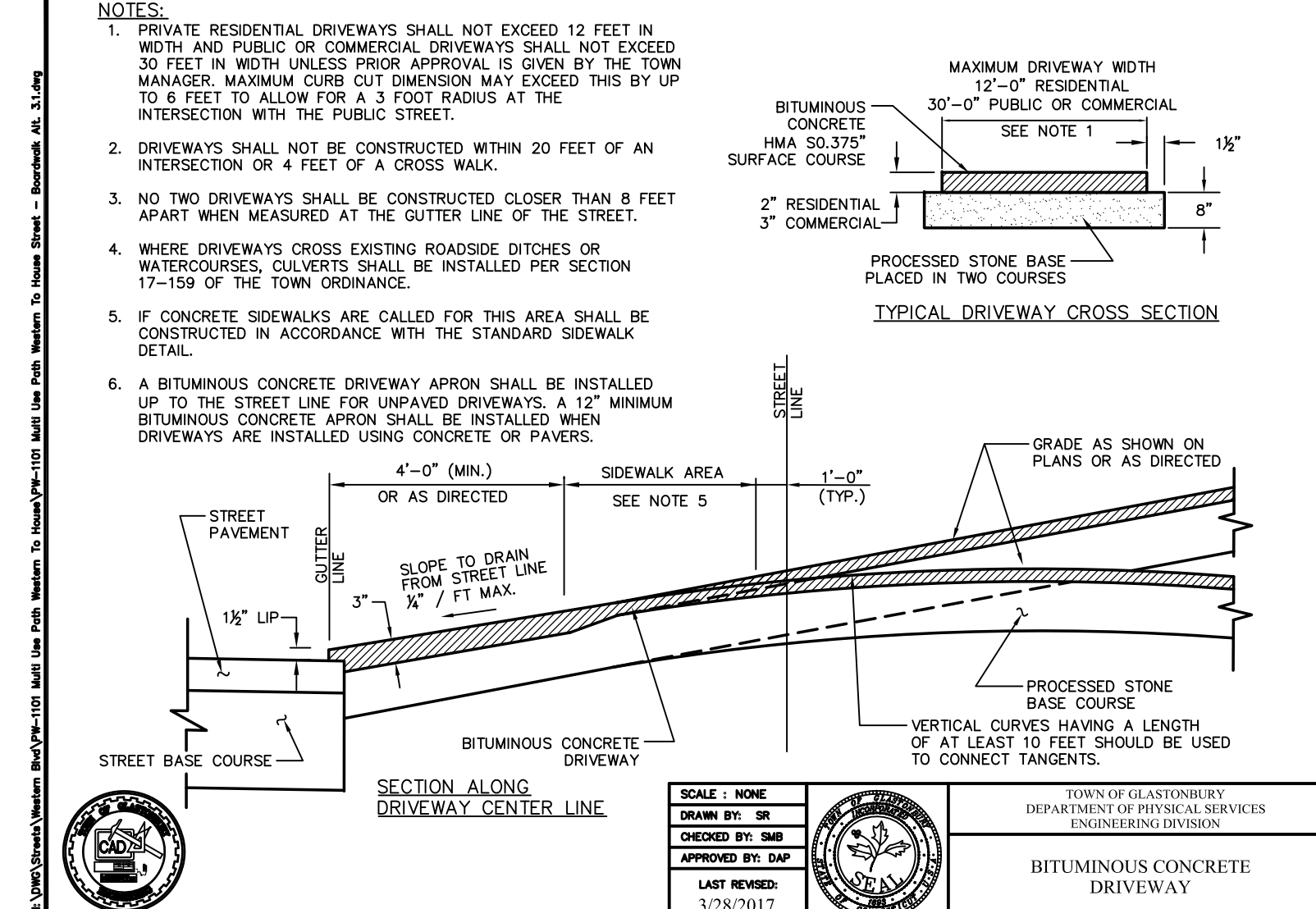


BITUMINOUS CAPE COD CURBING

SECTION A-A

VERTICAL GRANITE CURBING

PLATE NO. 6

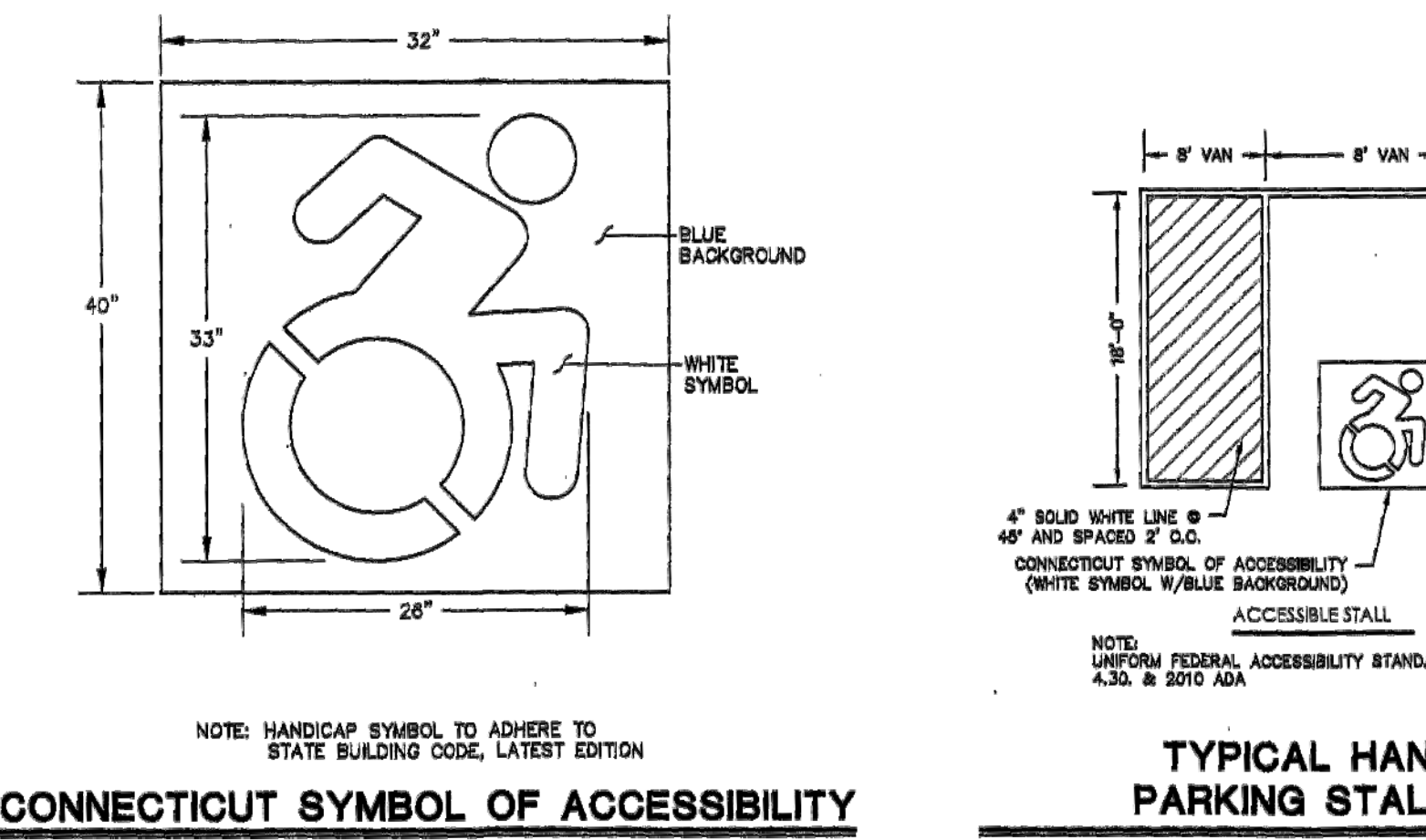


TYPICAL DRIVEWAY CROSS SECTION

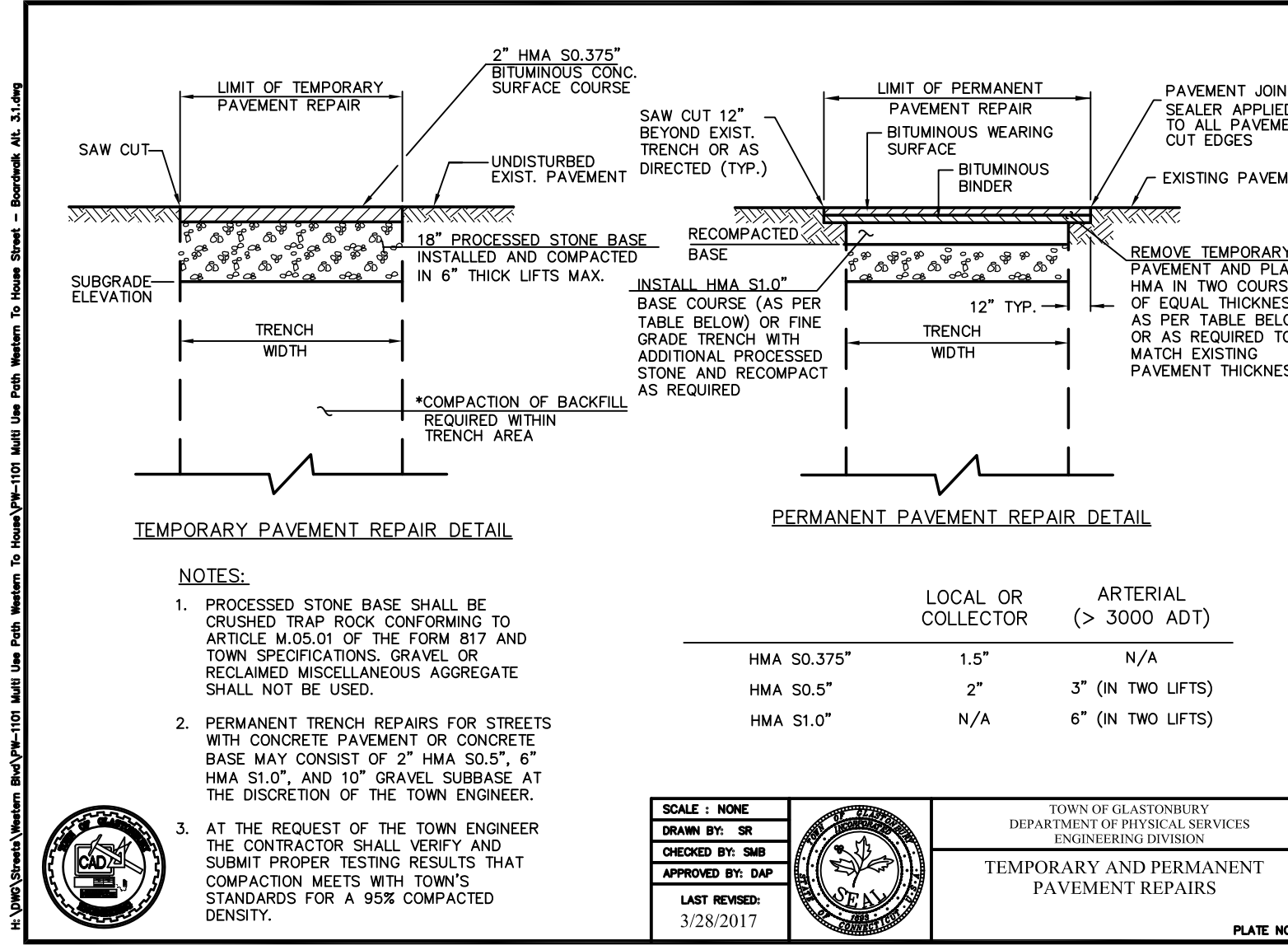
SECTION A-A

BITUMINOUS CONCRETE DRIVEWAY

PLATE NO. 9



TYPICAL HANDICAP
PARKING STALL LAYOUT
N.T.S.



TEMPORARY PAVEMENT REPAIR DETAIL

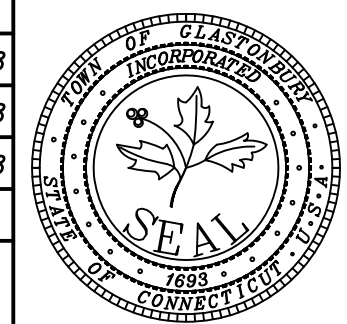
SECTION A-A

PERMANENT PAVEMENT REPAIR DETAIL

SECTION A-A

PLATE NO. 3

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	CHECKED BY: S.M.B. 6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	APPROVED BY: D.A.P. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:
1.	ISSUED FOR PERMITTING	1-25-2017	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE. SHOW THE LEFT MARGINS. THERE ARE ANY DISCREPANCIES, ENGINEERING OFFICE AT (860) 632-7725.
NO.	DESCRIPTION	DATE	

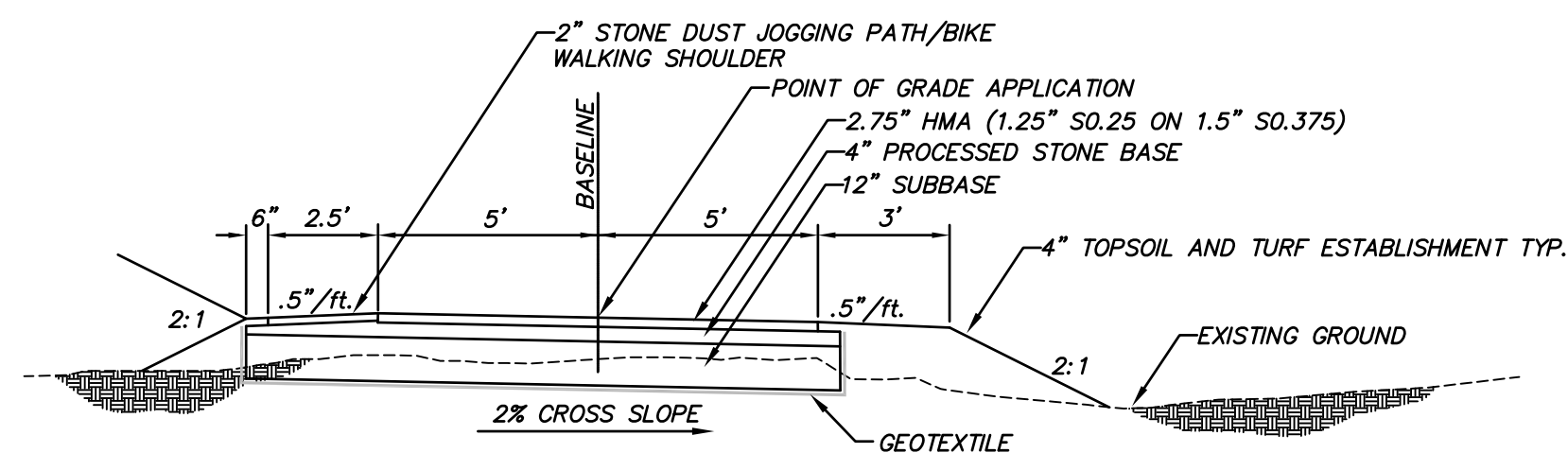


DETAILS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT
SHEET NO. 3 OF 24

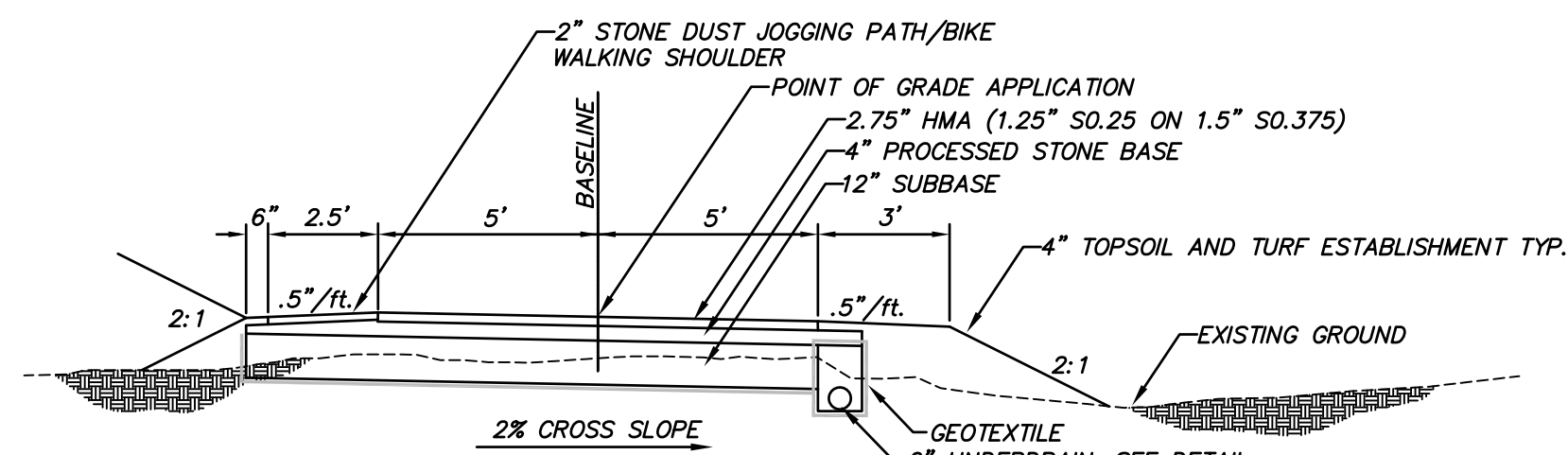
Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

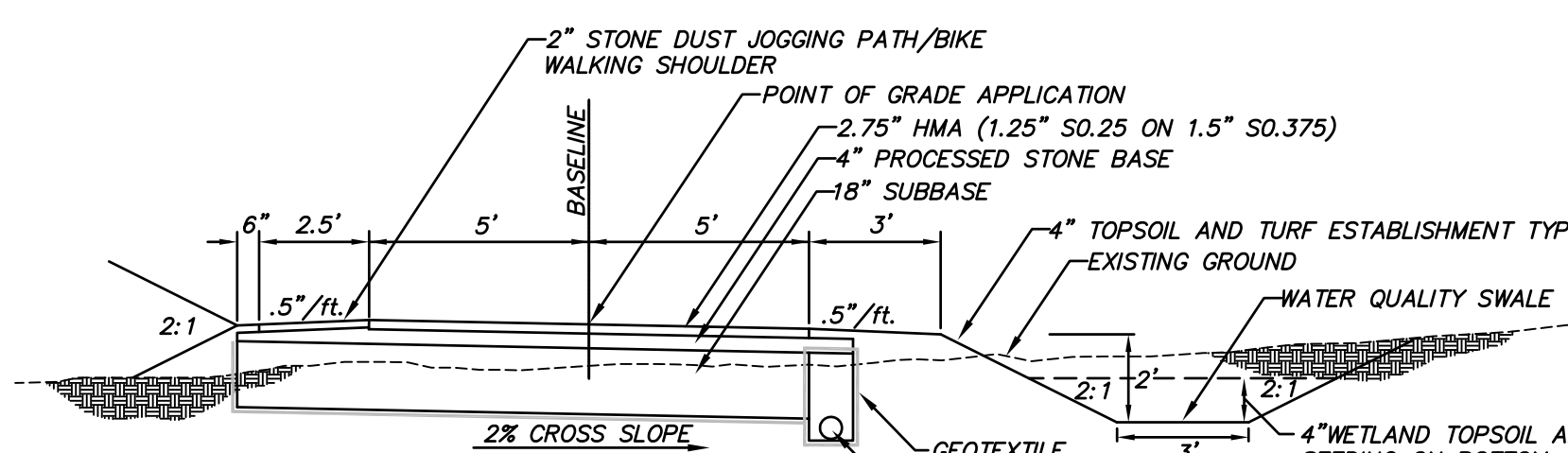
FILE: H:\DWG\Streets\Western Blvd\PH-101 Multi Use Path Western to House Street - Boardwalk Alt. 3.dwg USER: Steven Troy DATE: 8/8/2019



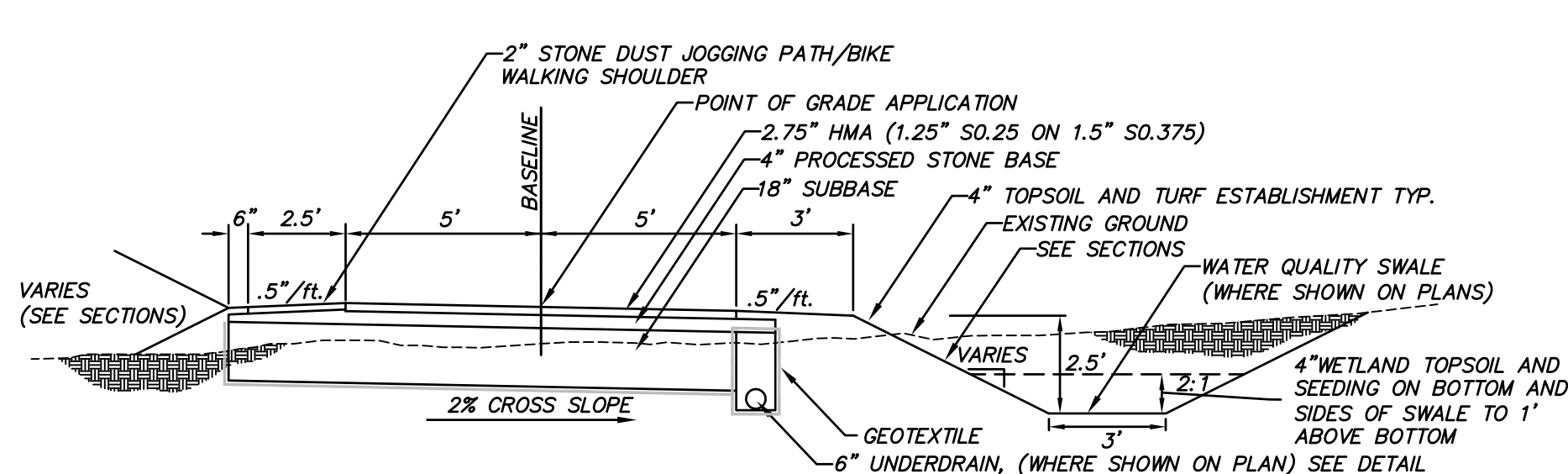
TYPICAL MULTI-USE PATH CROSS SECTION
STATION 1+59 to 2+11
SCALE : N.T.S.



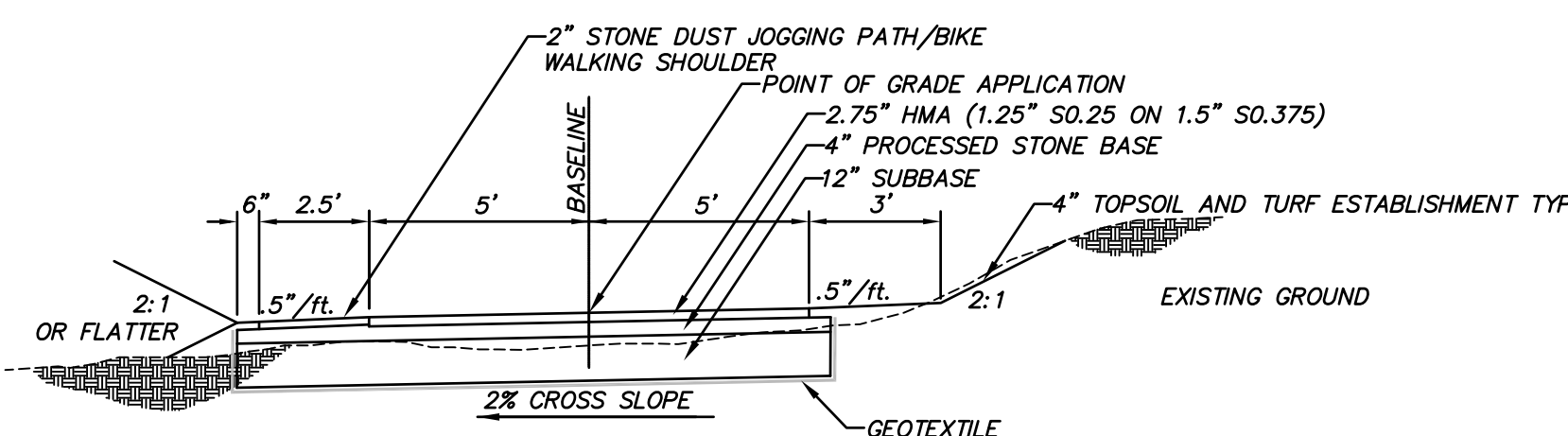
TYPICAL MULTI-USE PATH CROSS SECTION
STATION 2+11 to 3+20
STATION 9+00 to 10+25
SCALE : N.T.S.



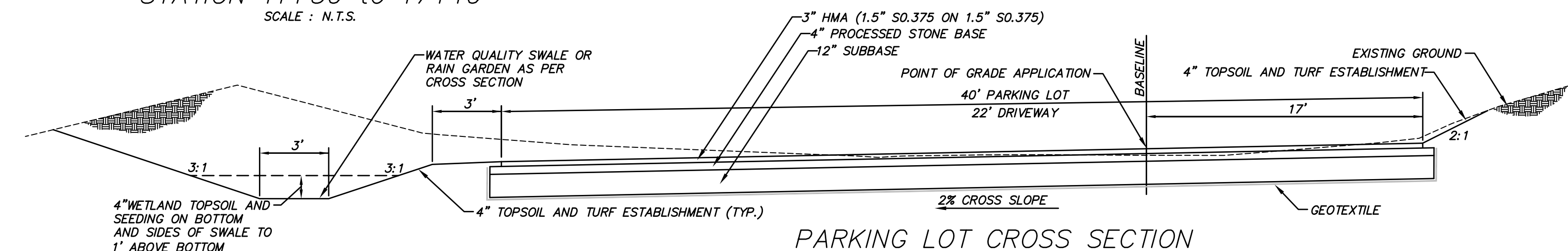
TYPICAL MULTI-USE PATH CROSS SECTION
STATION 3+20 to 7+16
SCALE : N.T.S.



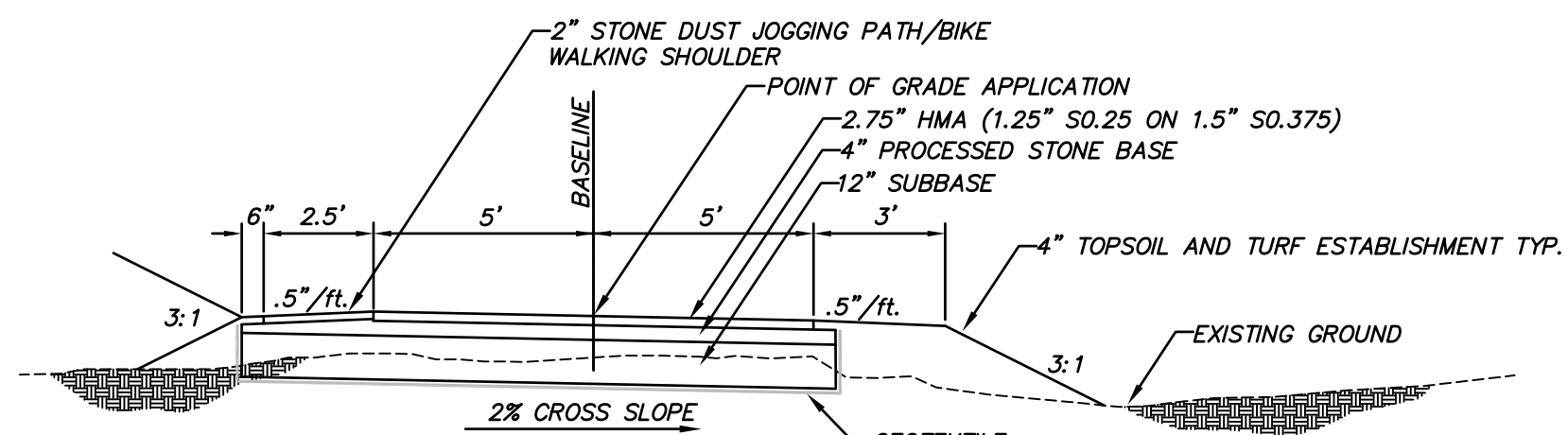
TYPICAL MULTI-USE PATH CROSS SECTION
STATION 7+16 to 9+00
STATION 10+25 to 11+30
STATION 18+75 to 22+50
SCALE : N.T.S.



TYPICAL MULTI-USE PATH CROSS SECTION
STATION 11+30 to 17+10
SCALE : N.T.S.

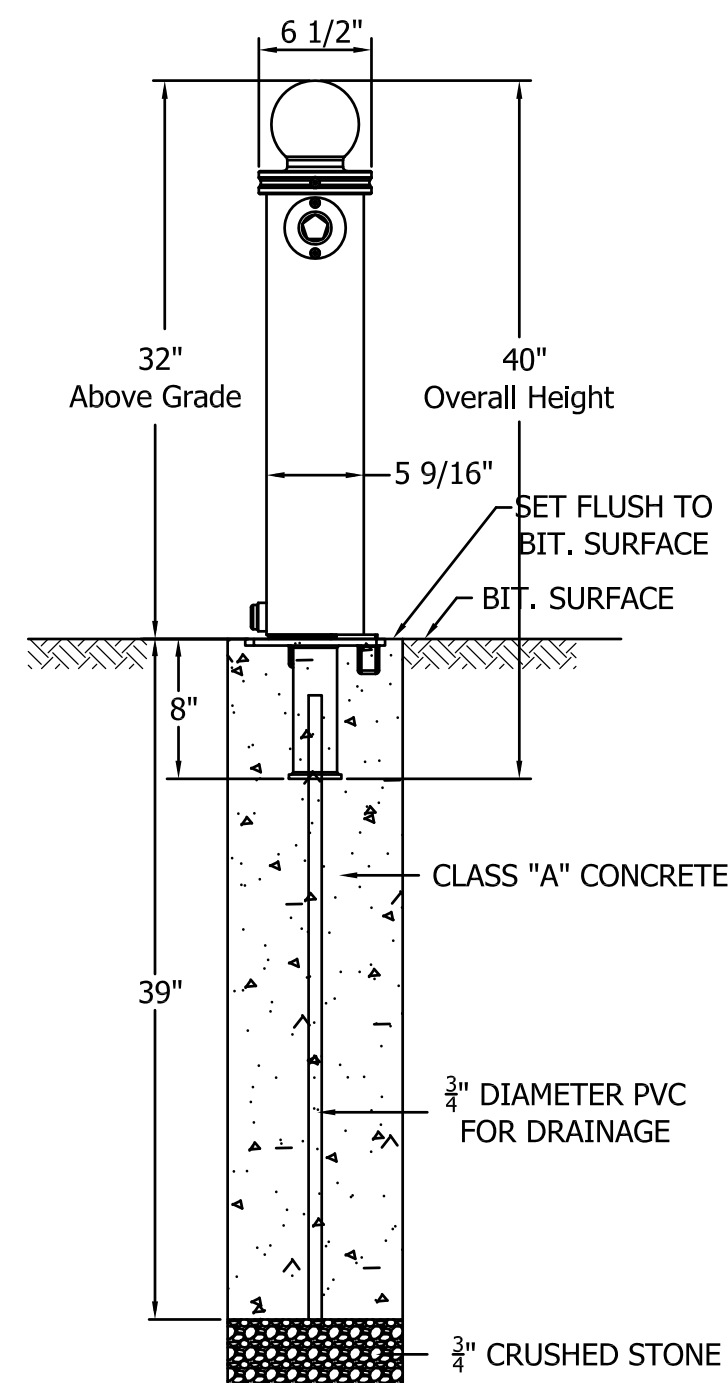


PARKING LOT CROSS SECTION
SCALE : N.T.S.

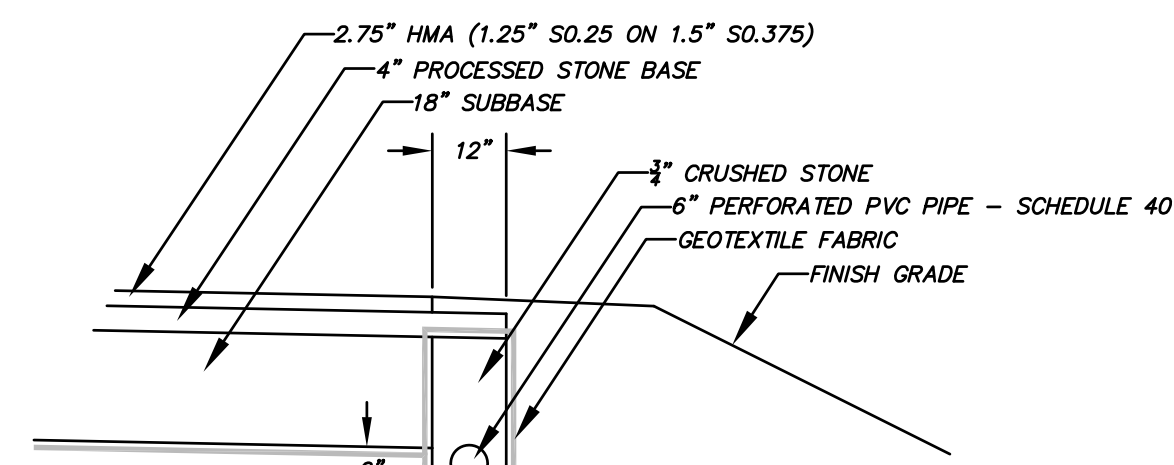


TYPICAL MULTI-USE PATH CROSS SECTION
STATION 22+50 to 23+30
SCALE : N.T.S.

NOTE:
BOLLARDS SHALL BE MAXIFORCE MRRW-RS1-R REMOVABLE
STEEL PIPE BOLLARD OR APPROVED EQUAL

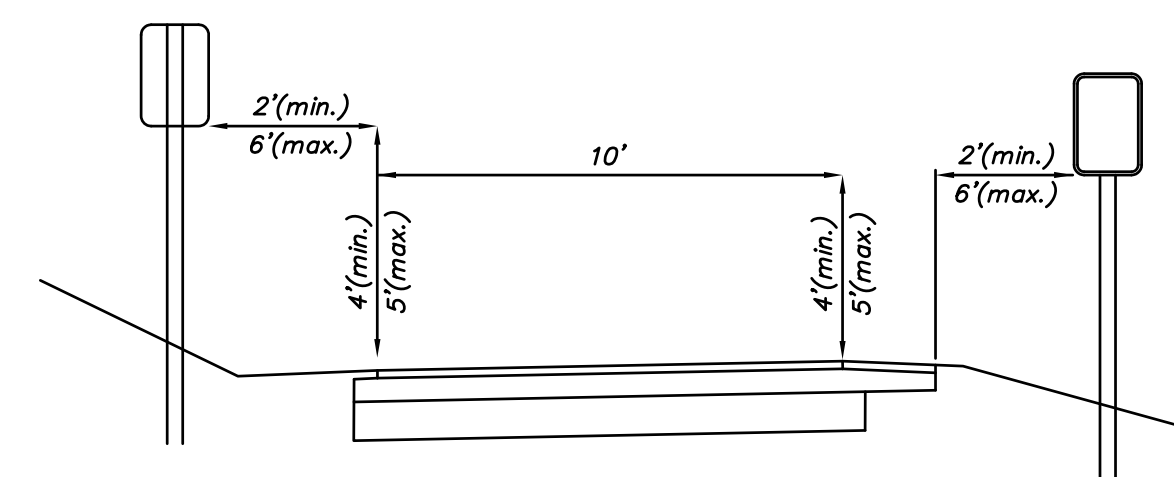


REMOVABLE BOLLARD
N.T.S.

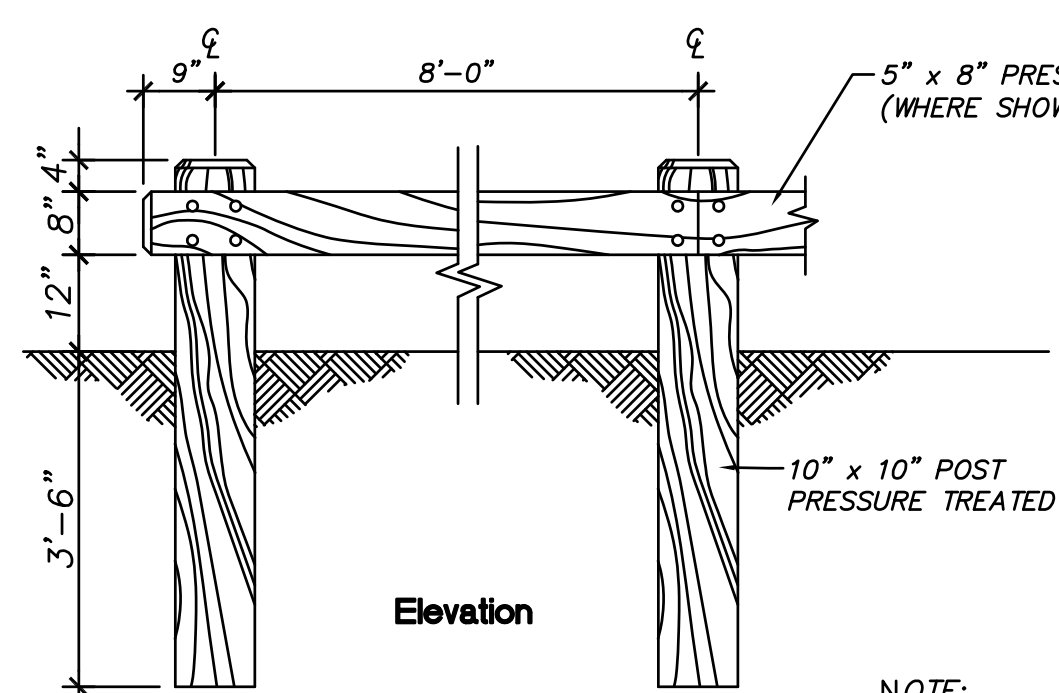


NOTES:
1. USE SOLID PVC PIPE FOR UNDERDRAIN
OUTLETS BEYOND LIMITS OF CRUSHED STONE.
2. ADJUST DEPTH AS REQUIRED TO MAINTAIN
POSITIVE FLOW TO OUTLET.

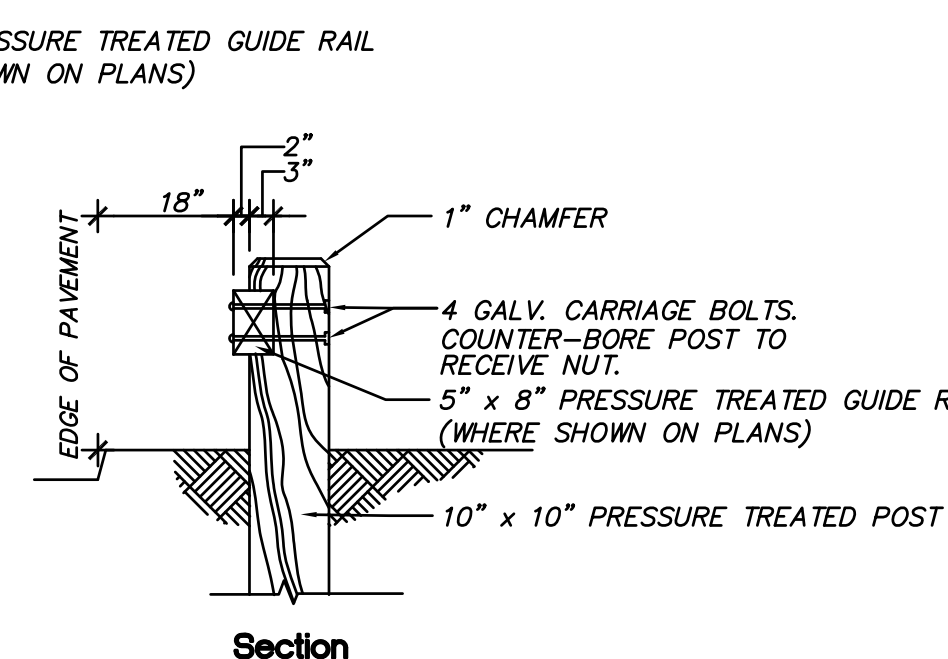
UNDERDRAIN DETAIL
SCALE : N.T.S.



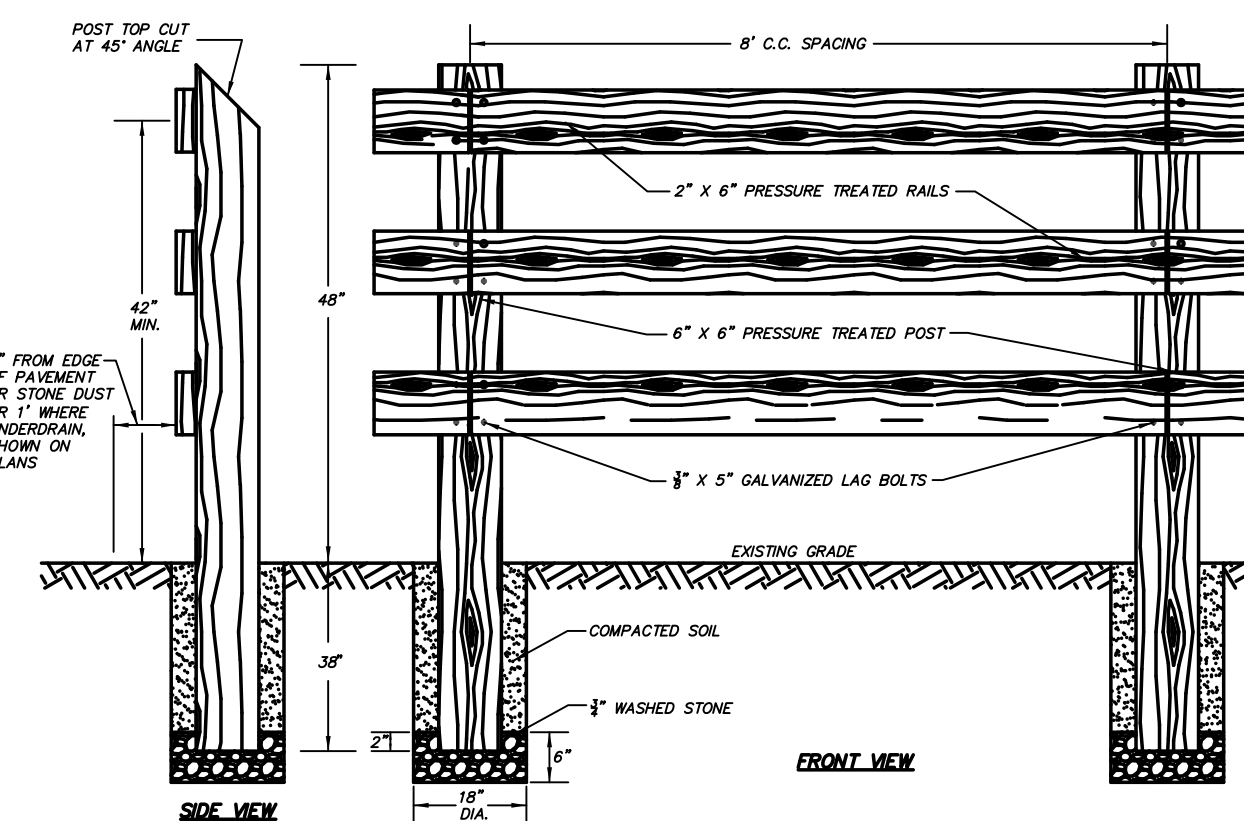
SIGN PLACEMENT ON MULTI-USE PATH
SCALE : N.T.S.



TIMBER POSTS AND GUIDE RAIL
NOT TO SCALE

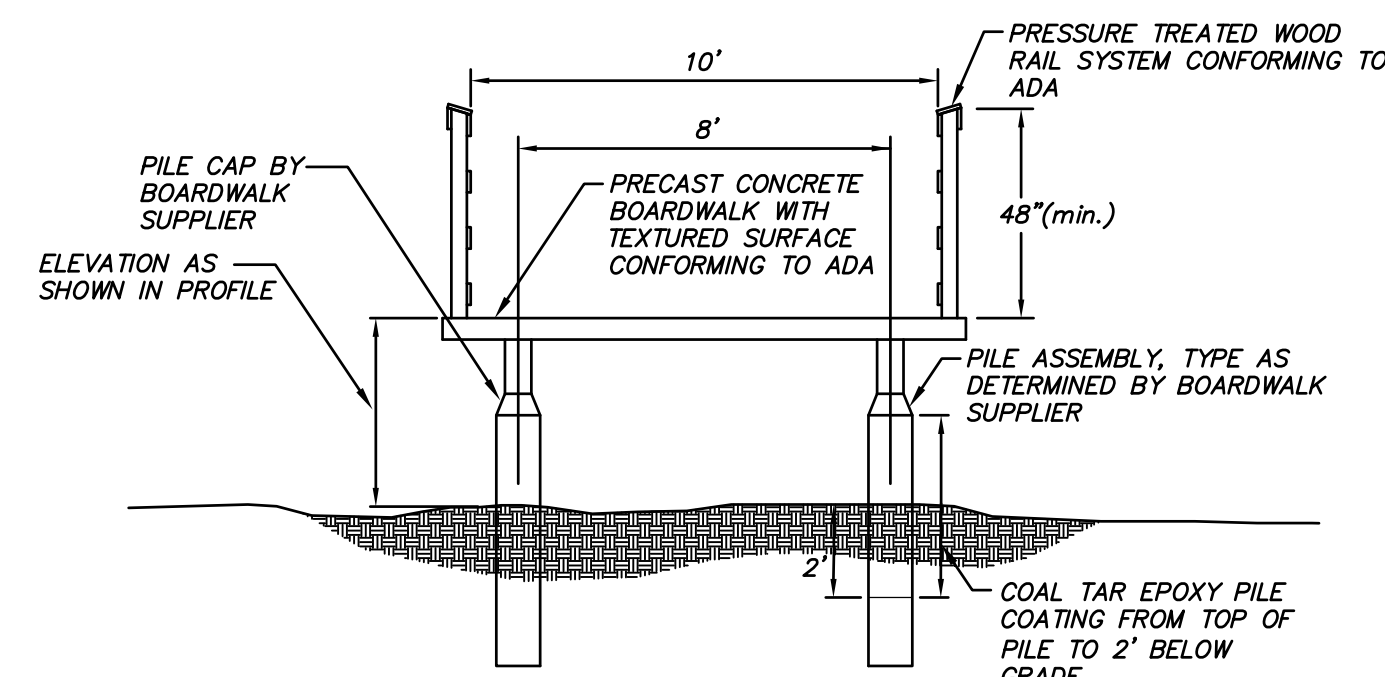


NOTE:
TIMBER POSTS TO
BE SPACED AT 6' O.C.
WHERE GUIDERAIL IS NOT
CALLED FOR ON THE PLANS.

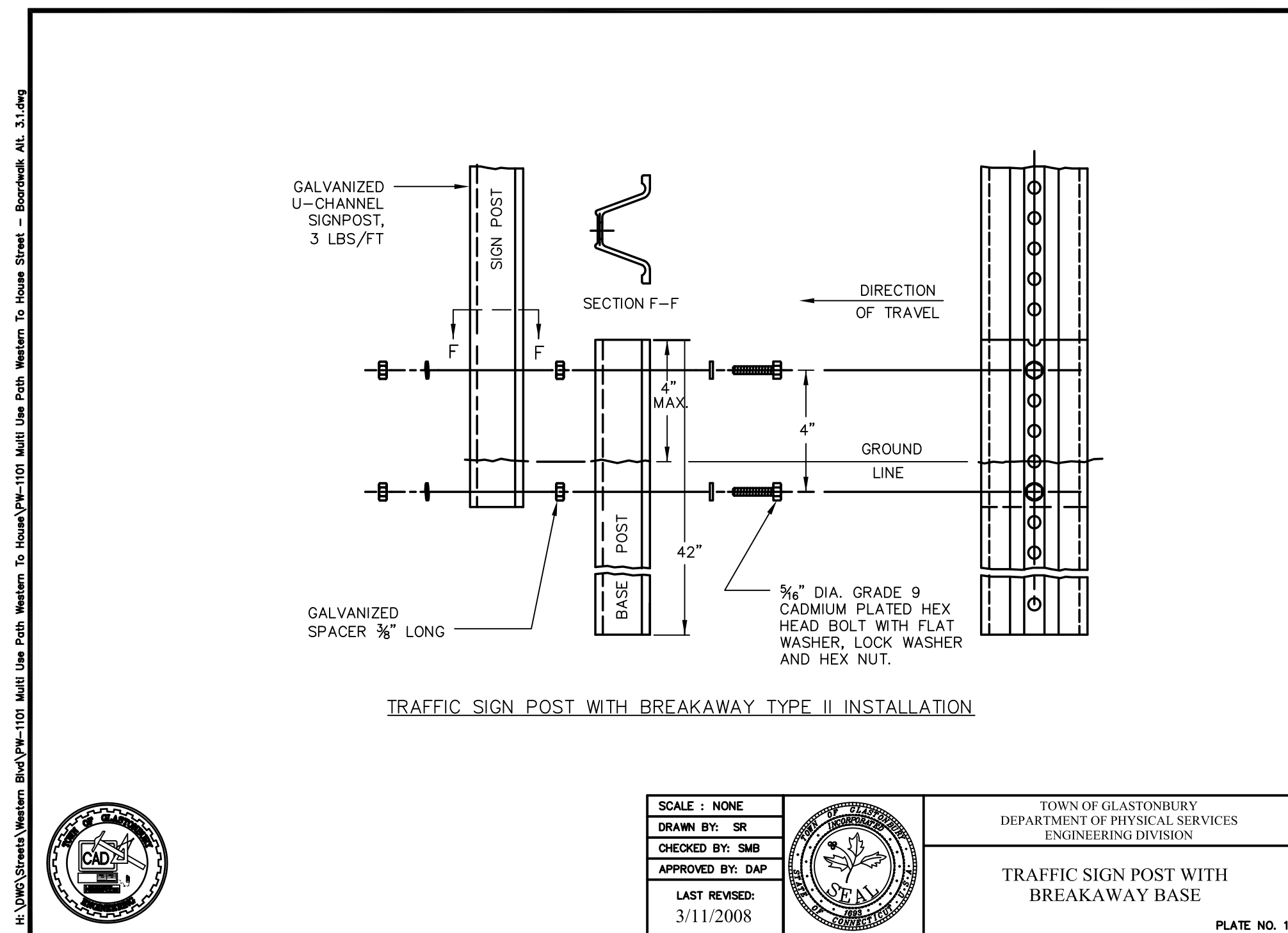


NOTE: FENCE SHALL BE POST AND
BOARD STYLE BY HASTIE FENCE OR
EQUAL.


THREE RAIL SAFETY FENCE
SCALE : N.T.S.



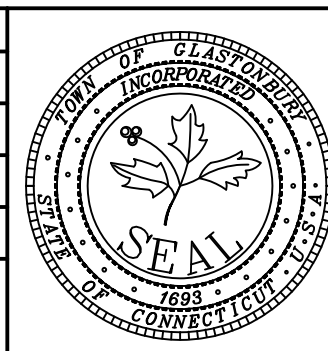
TYPICAL MULTI-USE PATH CROSS SECTION
WETLANDS BOARD WALK
STATION 17+10 to 18+75
SCALE : N.T.S.



TRAFFIC SIGN POST WITH BREAKAWAY TYPE II INSTALLATION

SCALE : NONE		TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR		TRAFFIC SIGN POST WITH BREAKAWAY BASE
CHECKED BY: SMB		PLATE NO. 10
APPROVED BY: DAP		
LAST REVISED: 3/11/2008		

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	CHECKED BY: S.Troy 6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	APPROVED BY: D.A.P. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:
1.	ISSUED FOR PERMITTING	1-25-2017	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY ENGINEERING OFFICE AT (860) 632-7725.
NO.	DESCRIPTION	DATE	



**TYPICAL SECTIONS
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

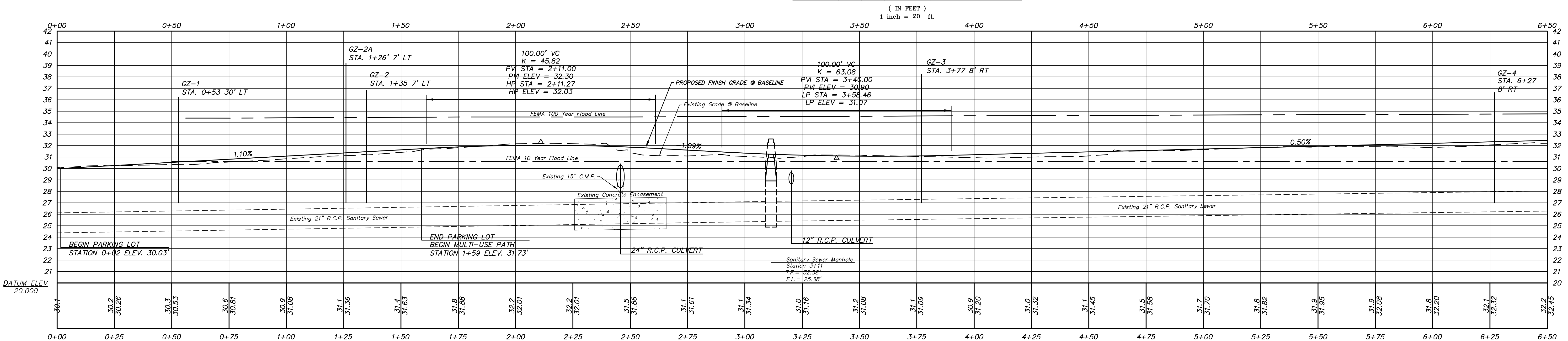
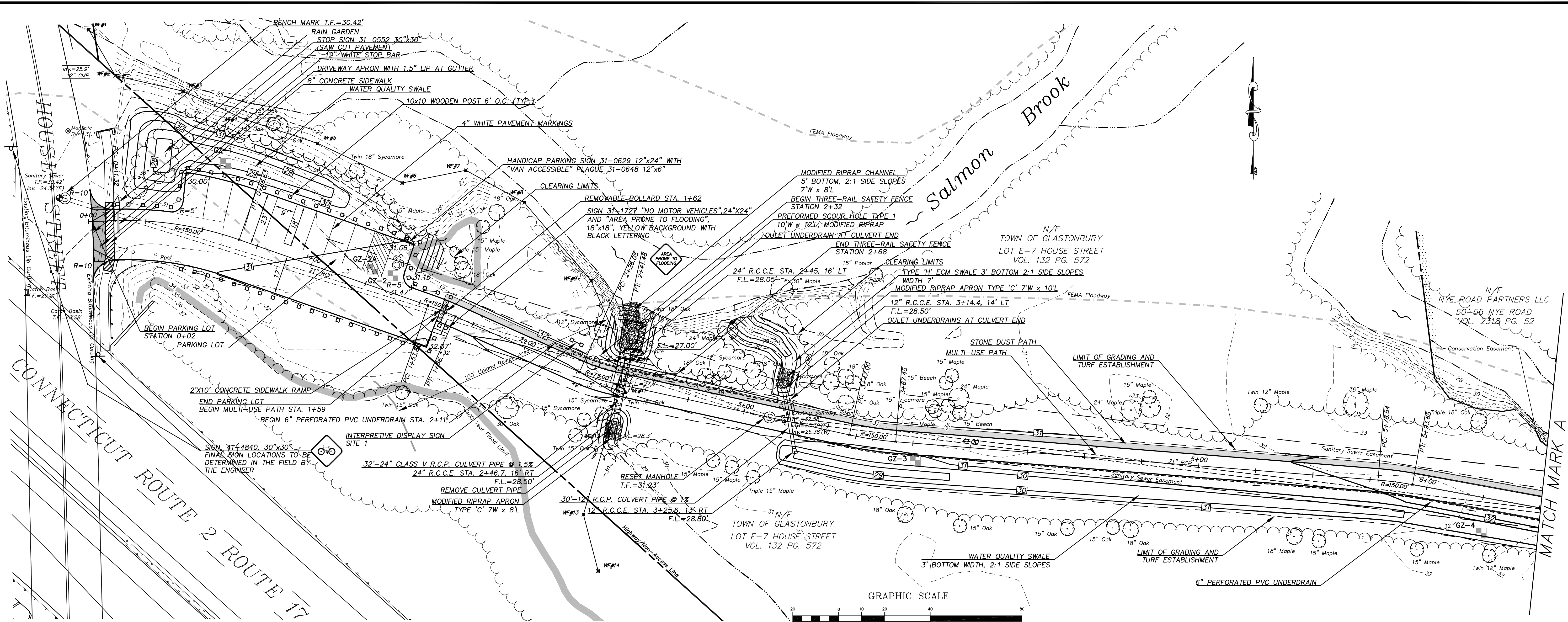
4

OF 24

Certified to be substantially correct

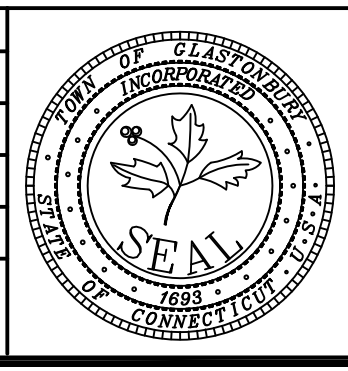
DANIEL A. PENNINGTON P.E. Reg. No. 20101

FILE: H:\DWG\Streets\Western Blvd\PW-1101 Multi Use Path Western to House Street - Boardwalk, Alt. 3.1.dwg USER: Steven Troy DATE: 8/8/2019



SCALE:
Horizontal 1"=20'
Vertical 1"=4'

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
		DRAWN BY: S.Troy	6-20-2018
		CHECKED BY: S.M.B.	6-20-2018
3.	ISSUED FOR CONSTRUCTION	APPROVED BY: D.A.P.	6-20-2018
2.	REVISED FOR PERMITTING	ST. FILE:	
1.	ISSUED FOR PERMITTING	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 632-7725.	
NO.	DESCRIPTION	DATE	



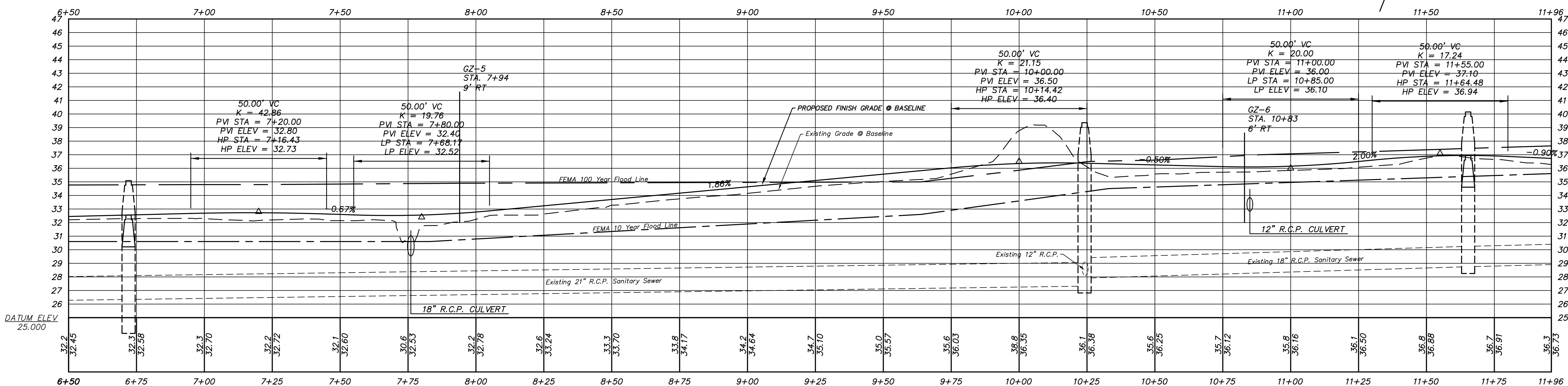
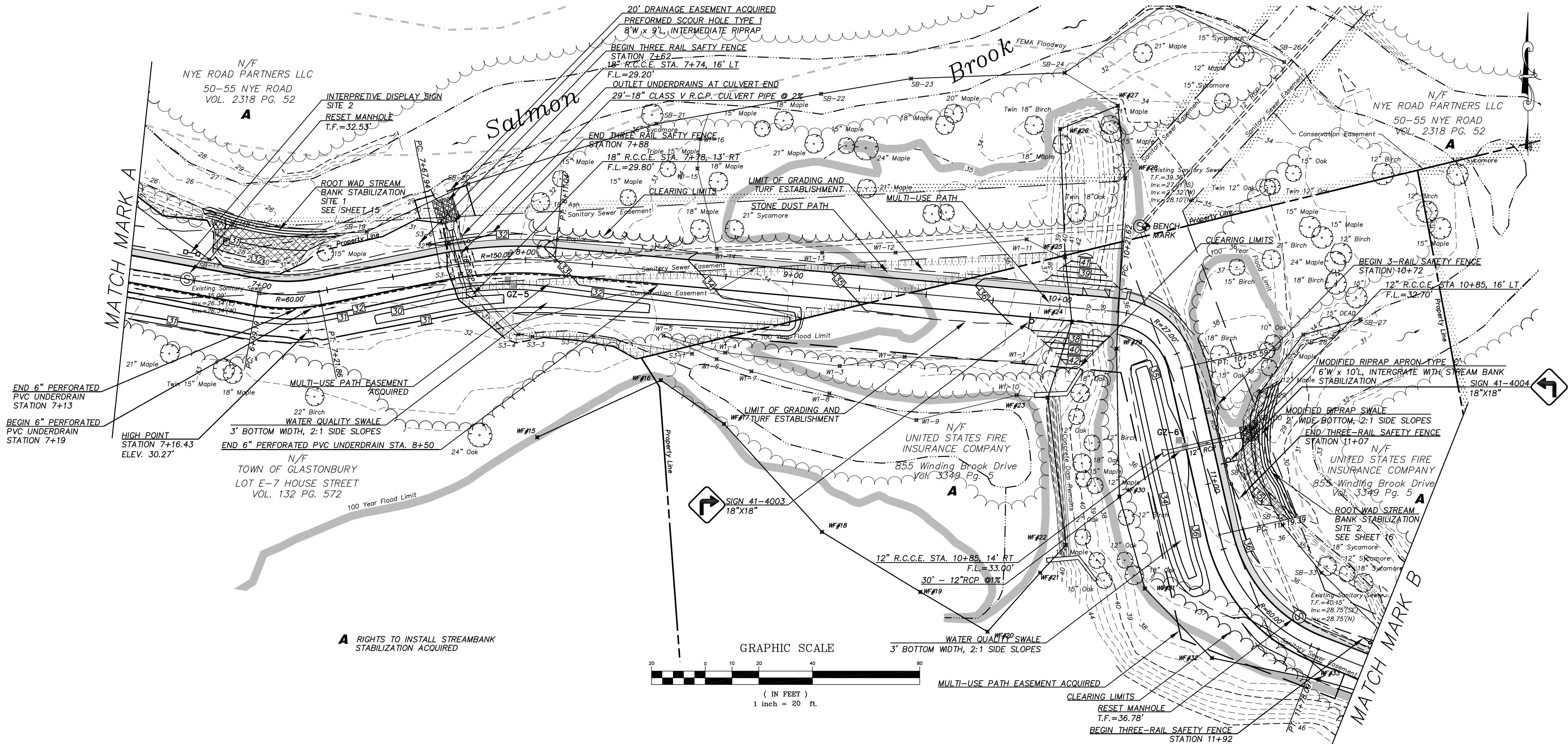
**PLAN AND PROFILE DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

P.W. 1101

FILE: H:\DWG\Streets\Western Blvd\PW-1101 Multi Use Path Western to House Street - Boardwalk, Alt. 3.dwg USER: Steven Troy DATE: 8/8/2019



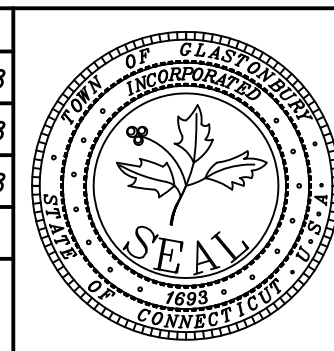
Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

SCALE:
Horizontal 1"=20'
Vertical 1"=4'

P.W. 1101

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy 6-20-2018
3.	CT DEEP FISHERIES COMMENTS	10-10-2018	CHECKED BY: S.M.B. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P. 6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:
NO.	DESCRIPTION	DATE	



**PLAN AND PROFILE DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

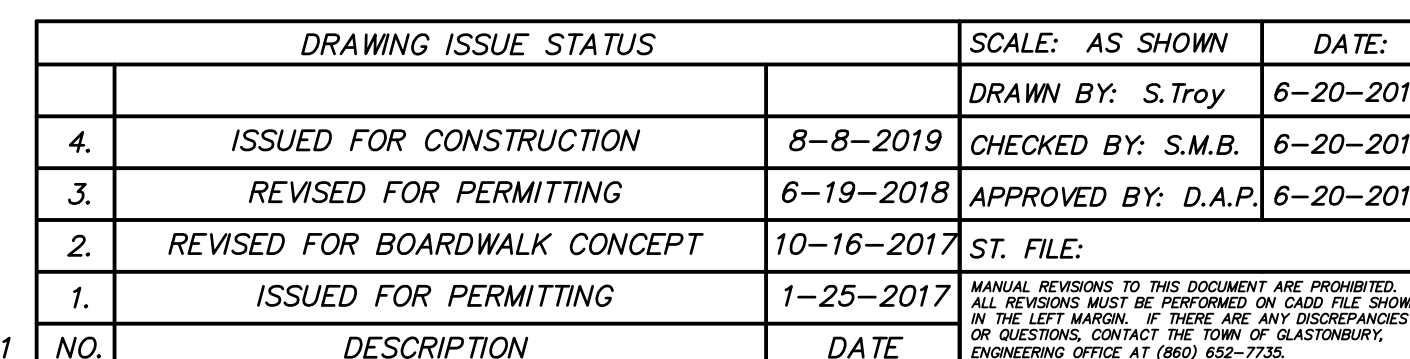
SHEET NO.

6

OF 24

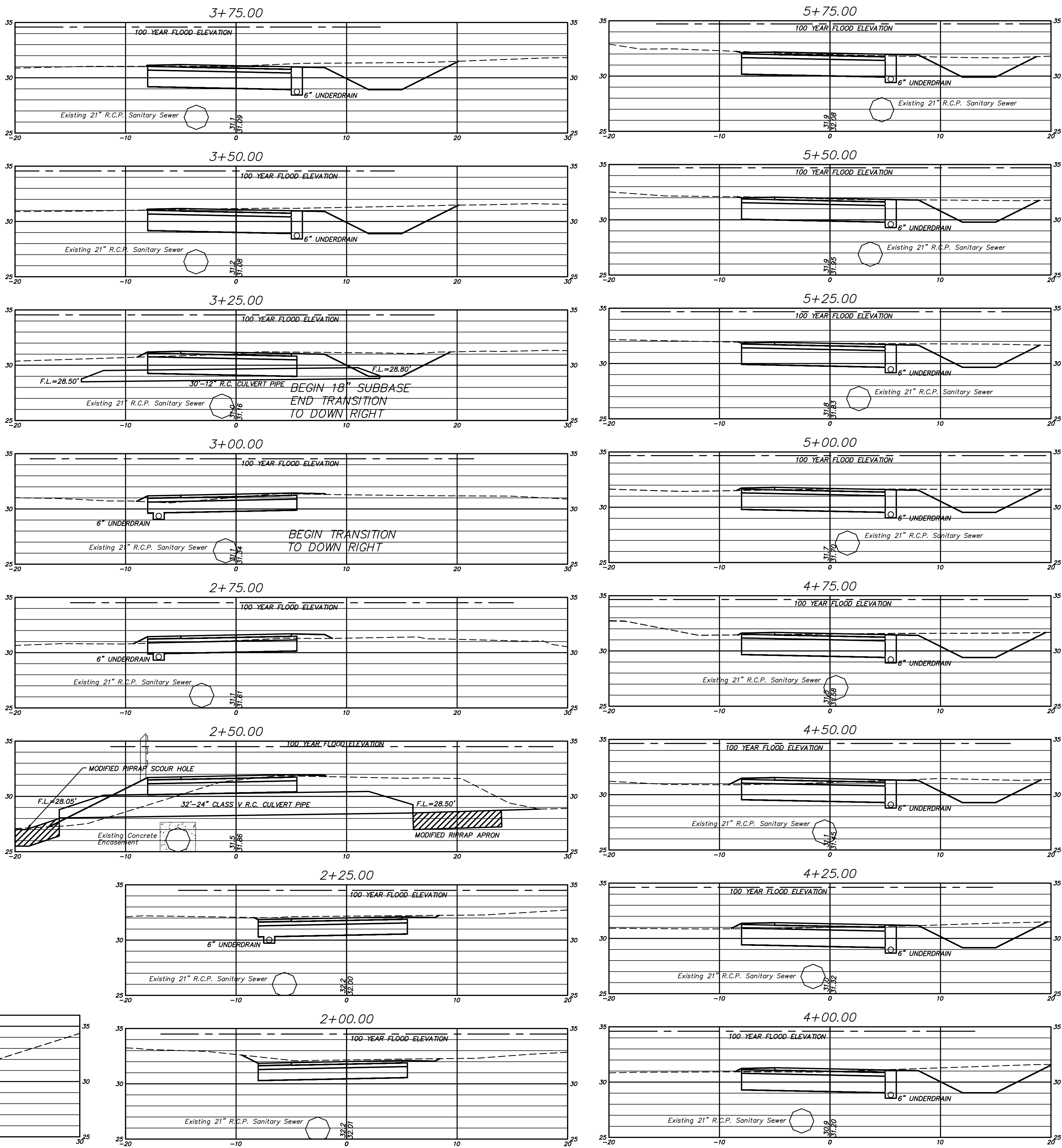
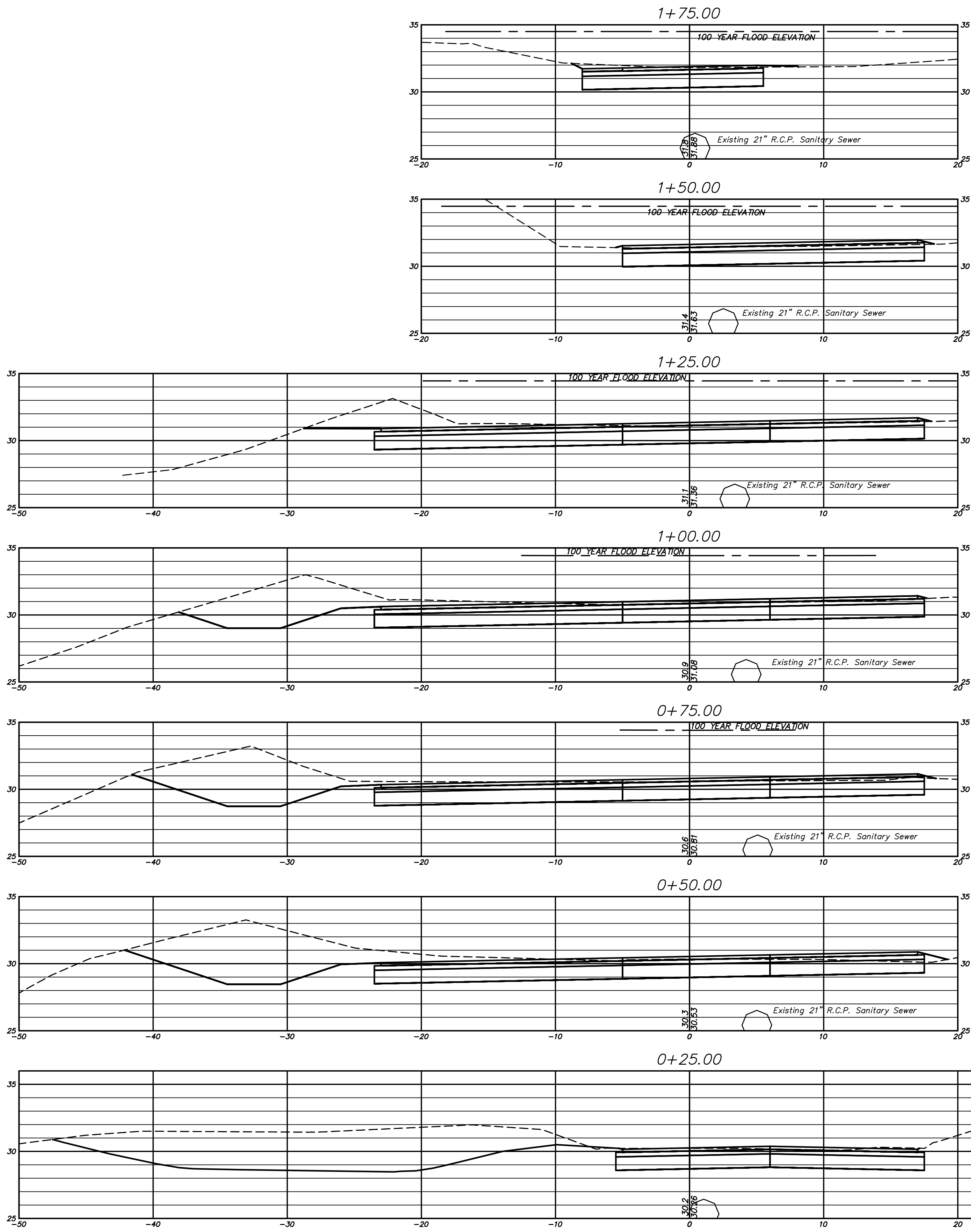
24





**PLAN AND PROFILE DEPICTING
PROPOSED MULTI-USE PATH
From
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

FILE:H:\DWG\Streets\Western Blvd\PW-1101 Multi Use Path\Western to House Street - Boardwalk_Alt. 3.dwg USER:Steven Troy DATE: 8/8/2019

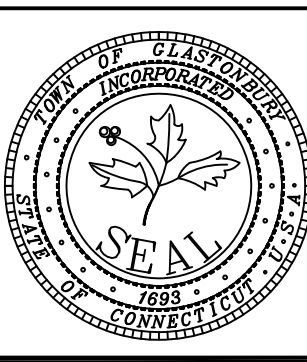


SCALE:
Horizontal 1"=5'
Vertical 1"=5'

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 201071

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
NO.	DESCRIPTION	DATE	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 632-7735.	



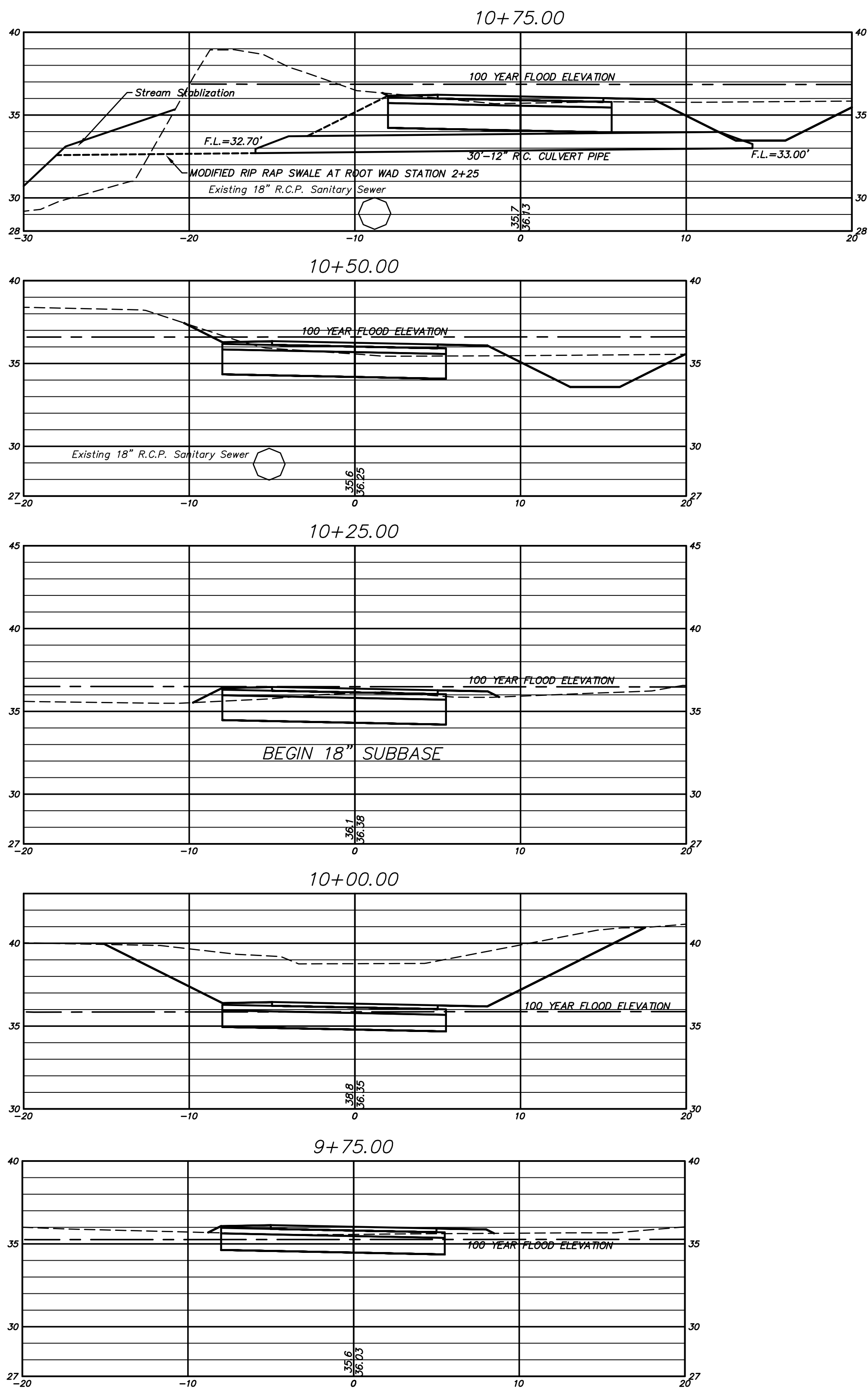
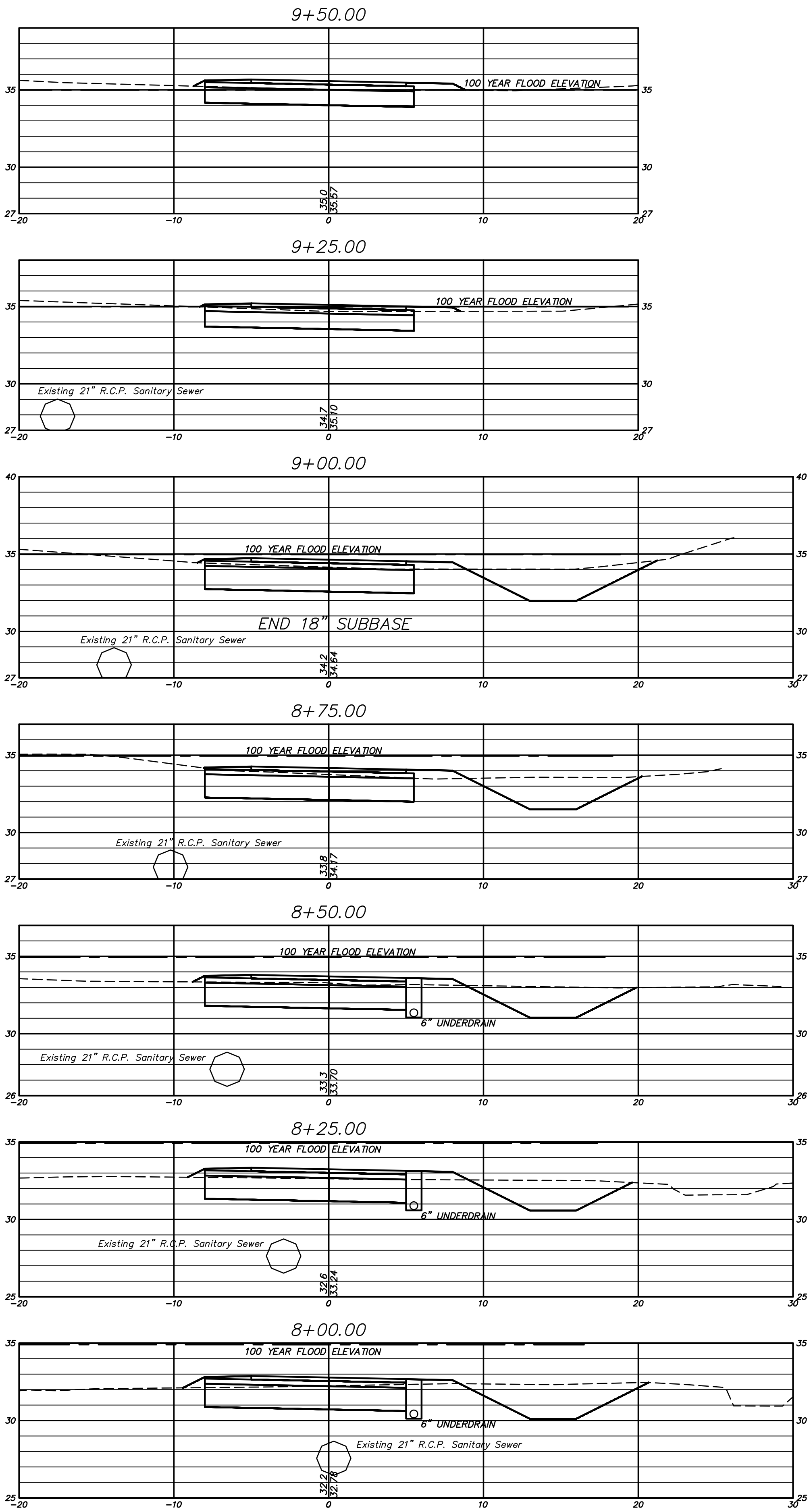
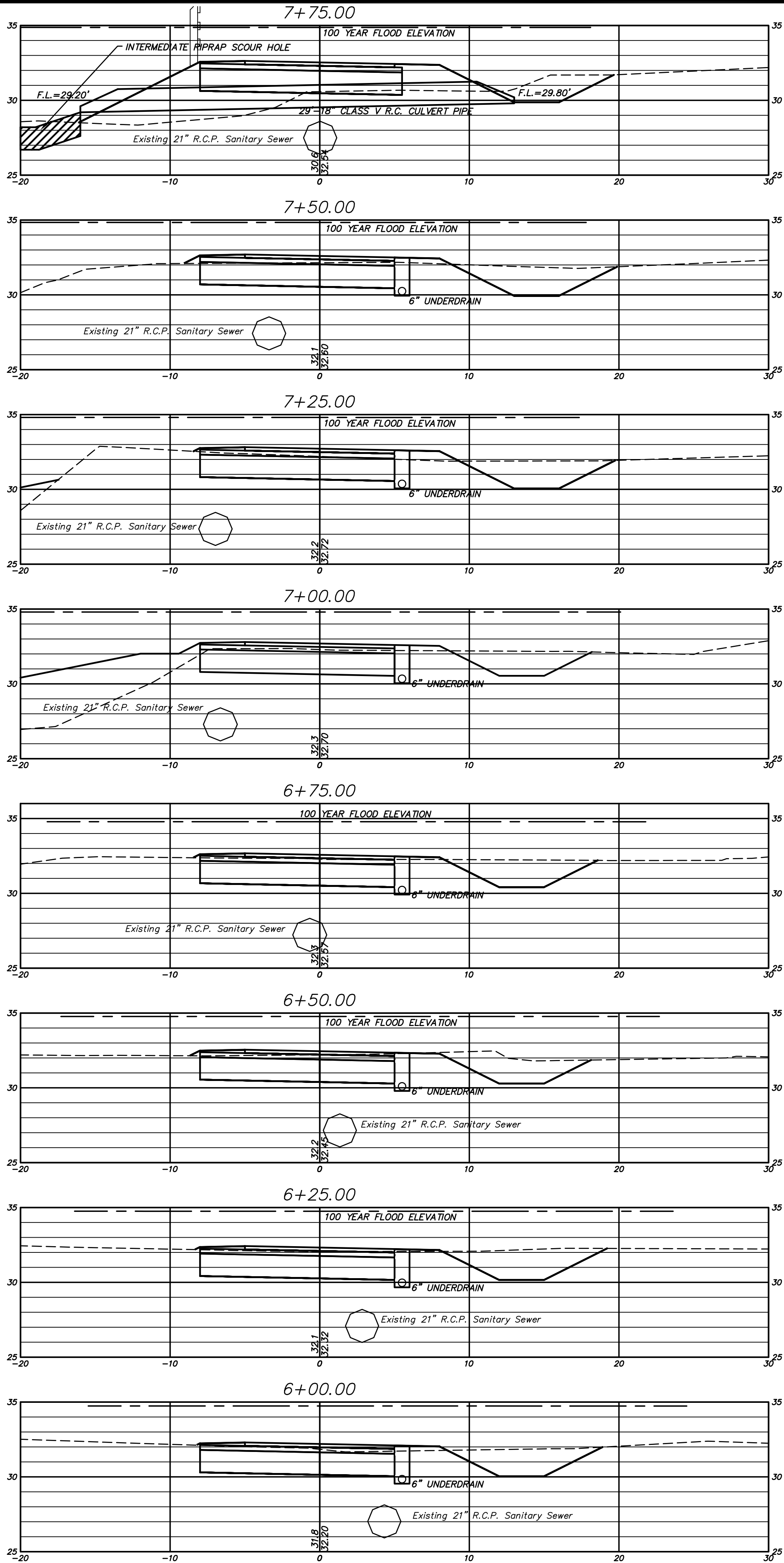
**SECTIONS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

10

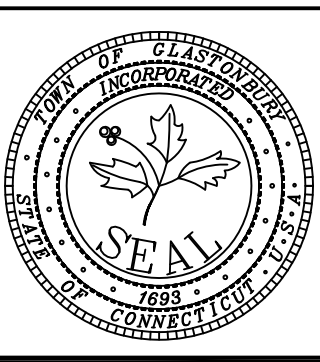
OF 24

FILE:H:\DWG\Streets Western Blvd\PW-100 Multi Use Path Western to House Street - Boardwalk, Alt. 3.dwg USER: Steven Troy DATE: 8/8/2019



SCALE:
Horizontal 1"=5'
Vertical 1"=5'

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
NO.	DESCRIPTION	DATE	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 632-7232.	



**SECTIONS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

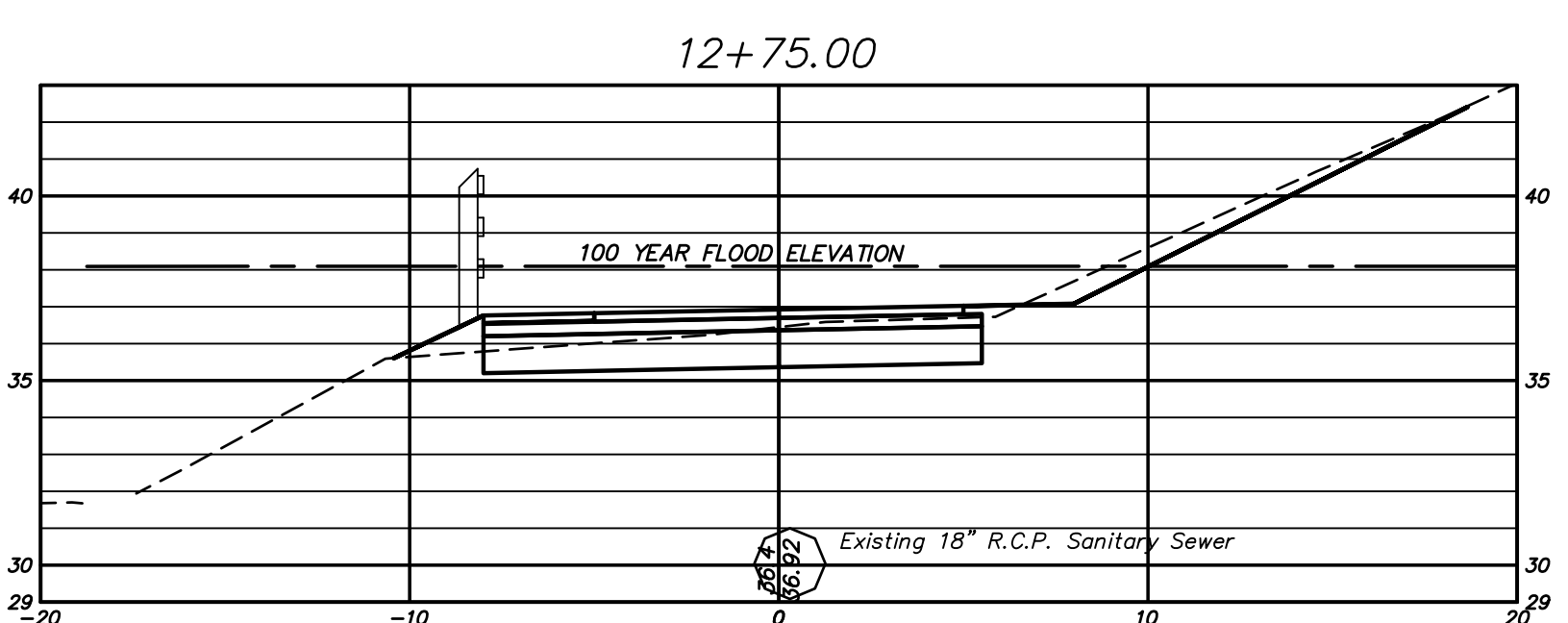
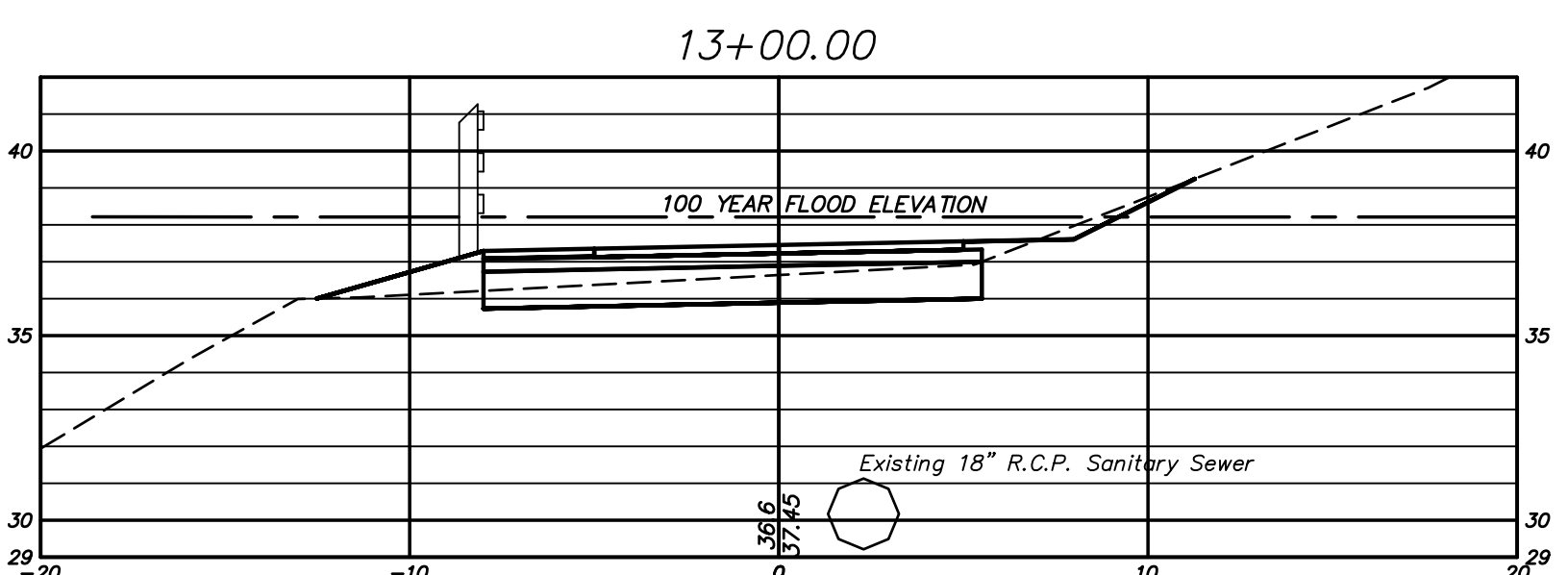
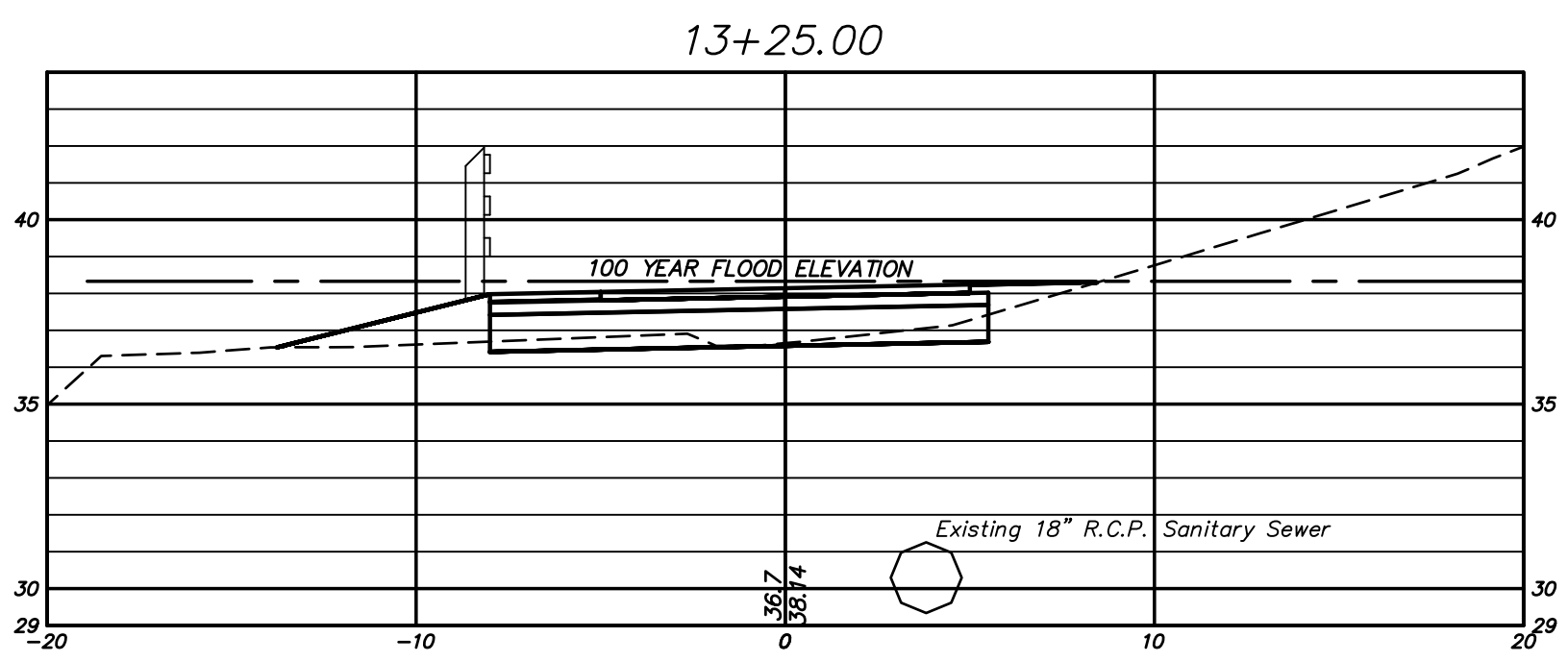
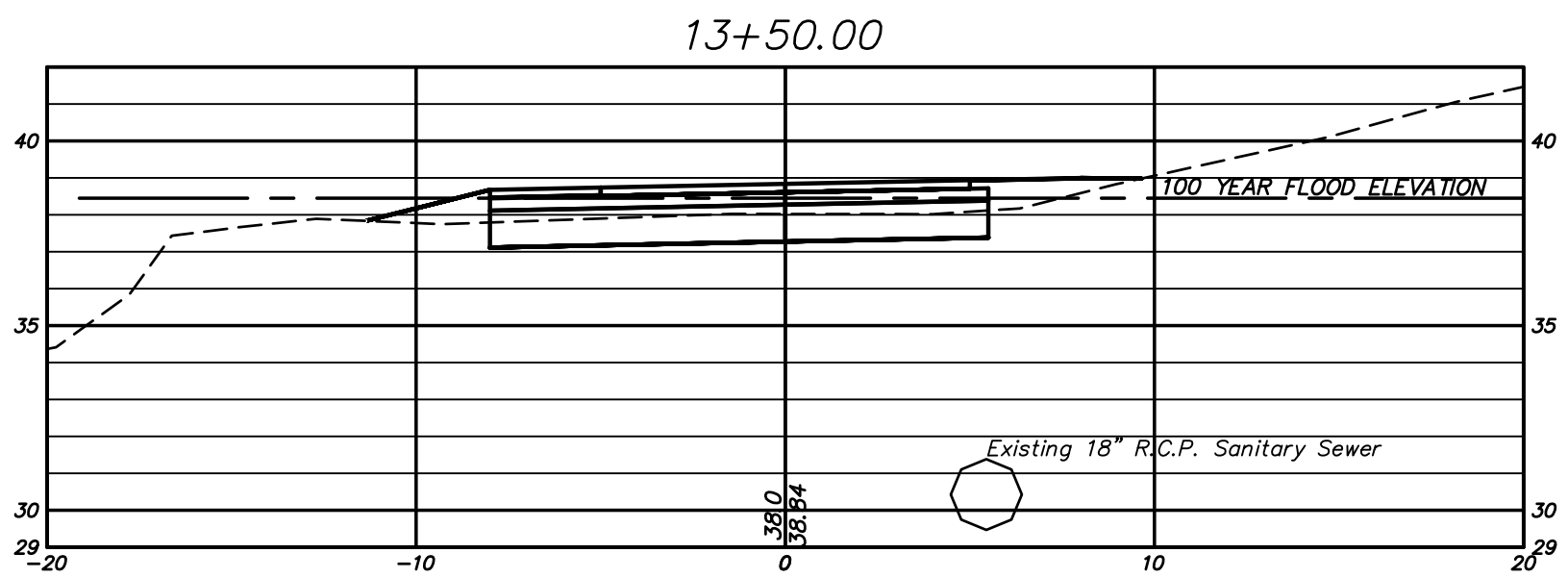
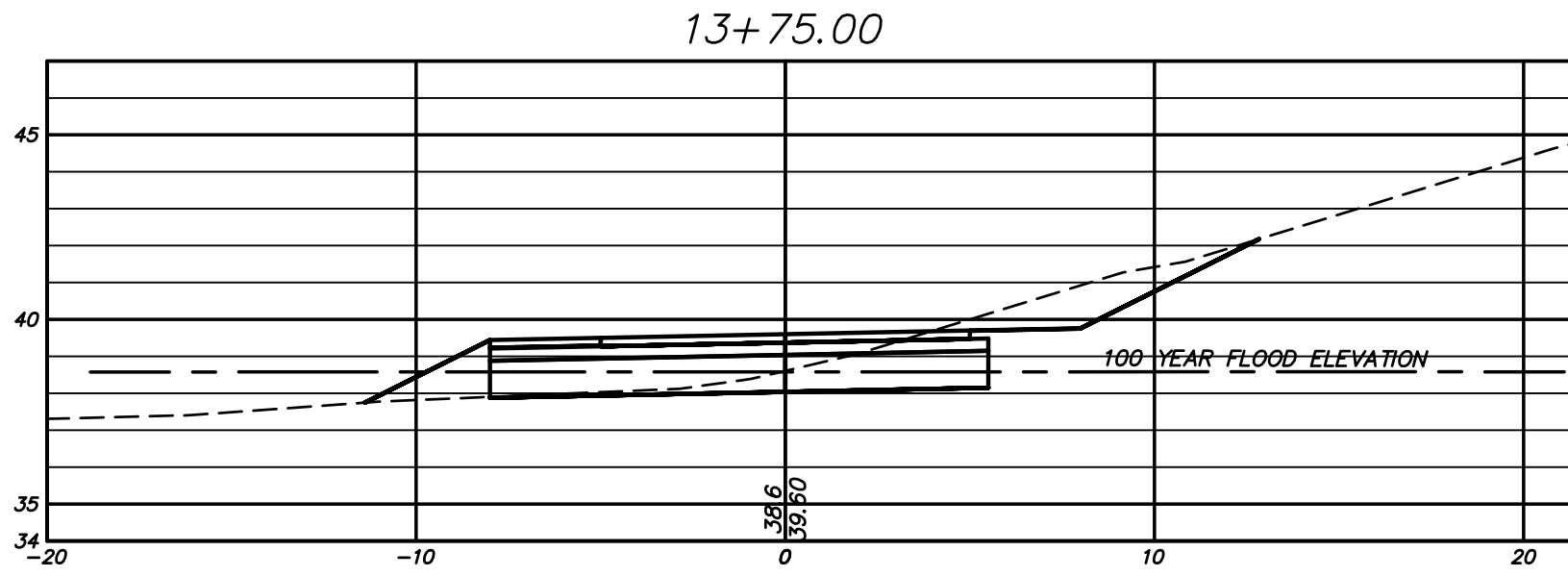
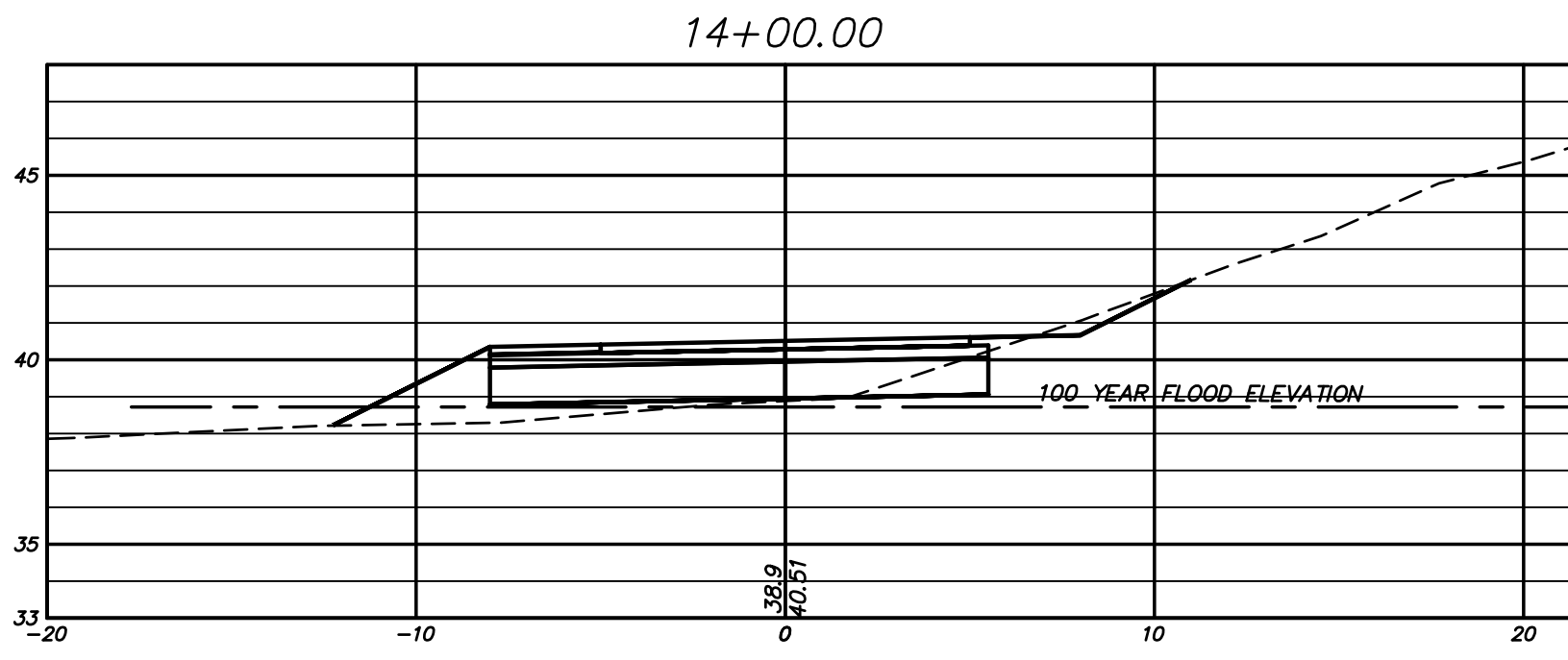
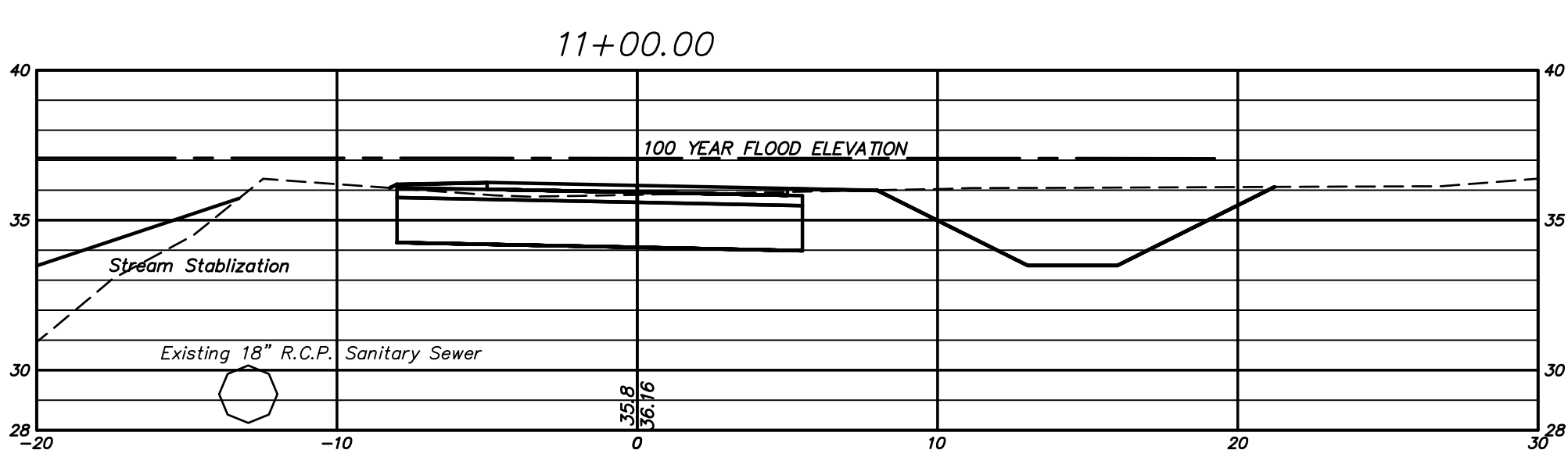
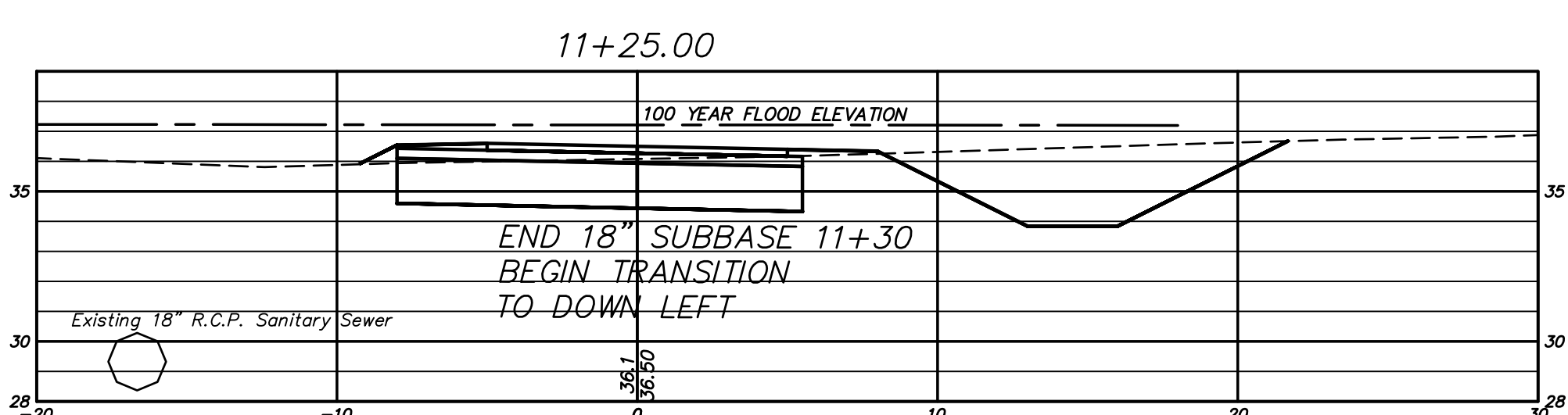
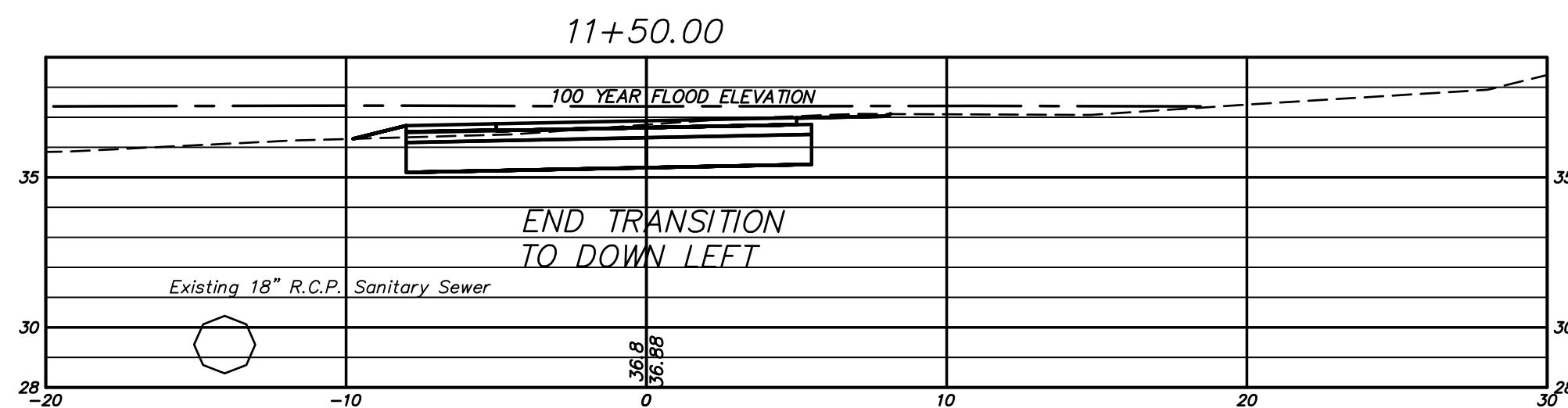
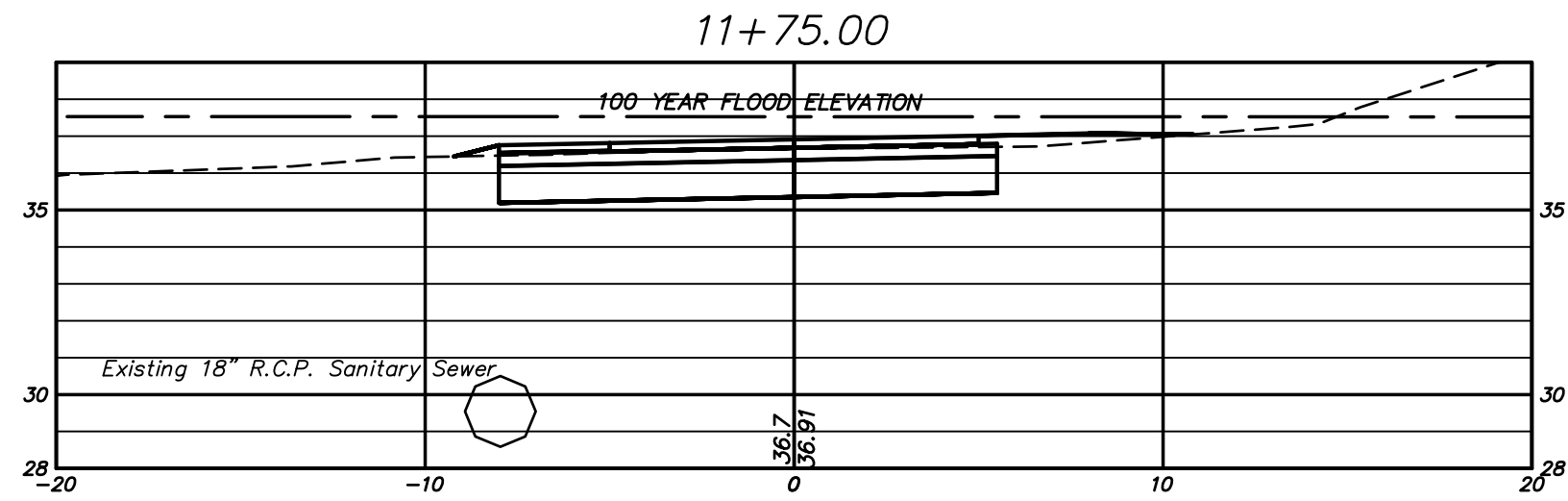
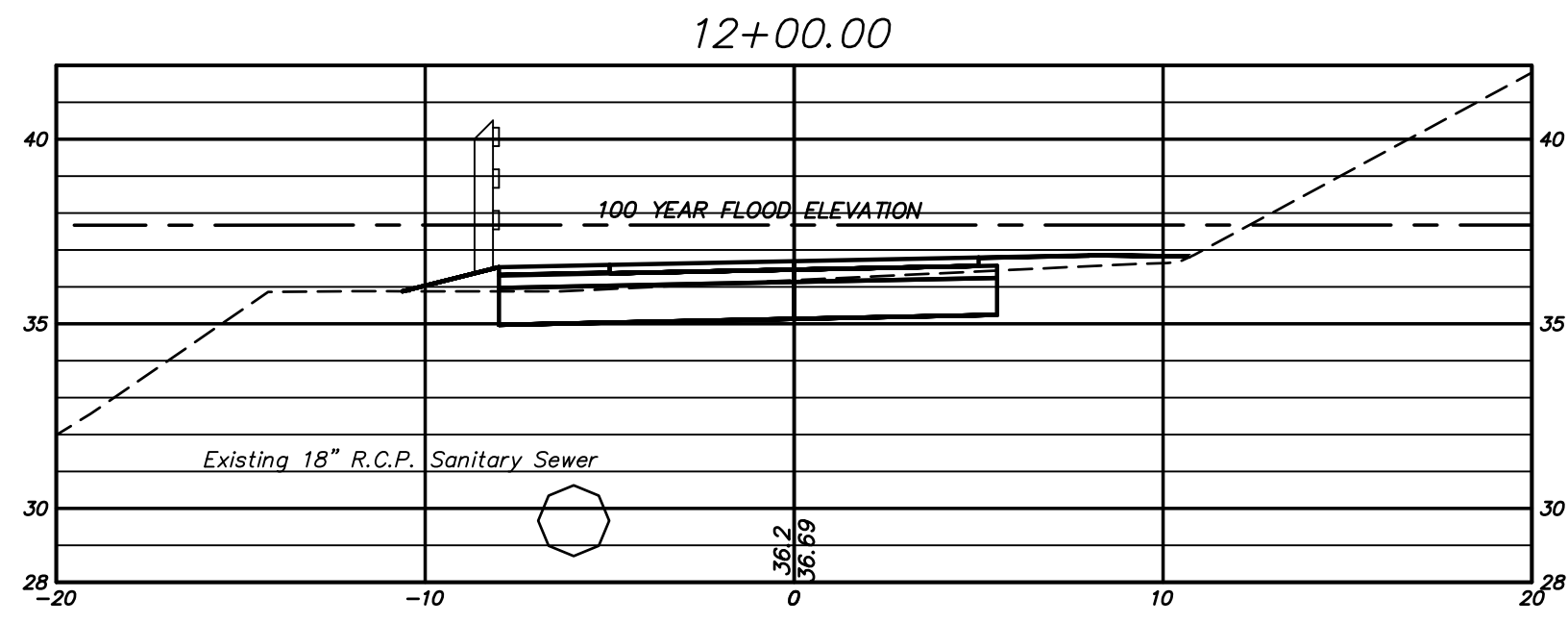
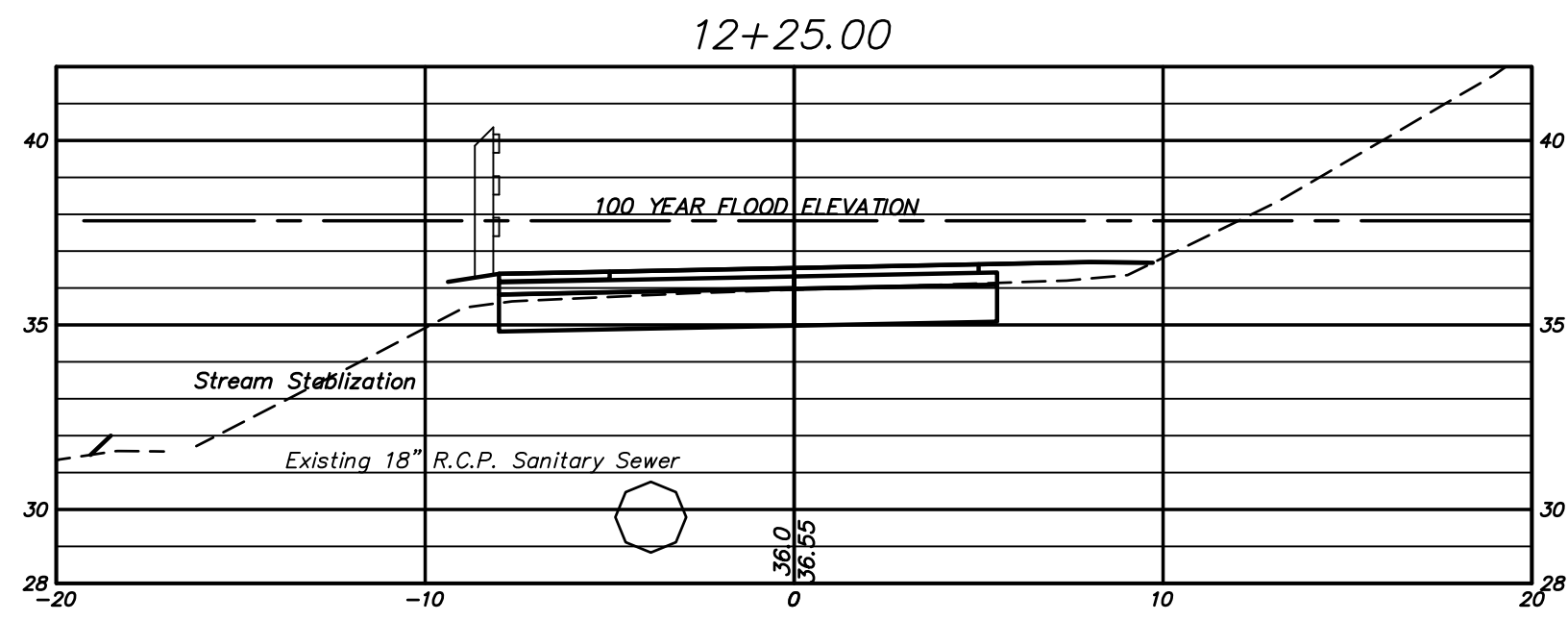
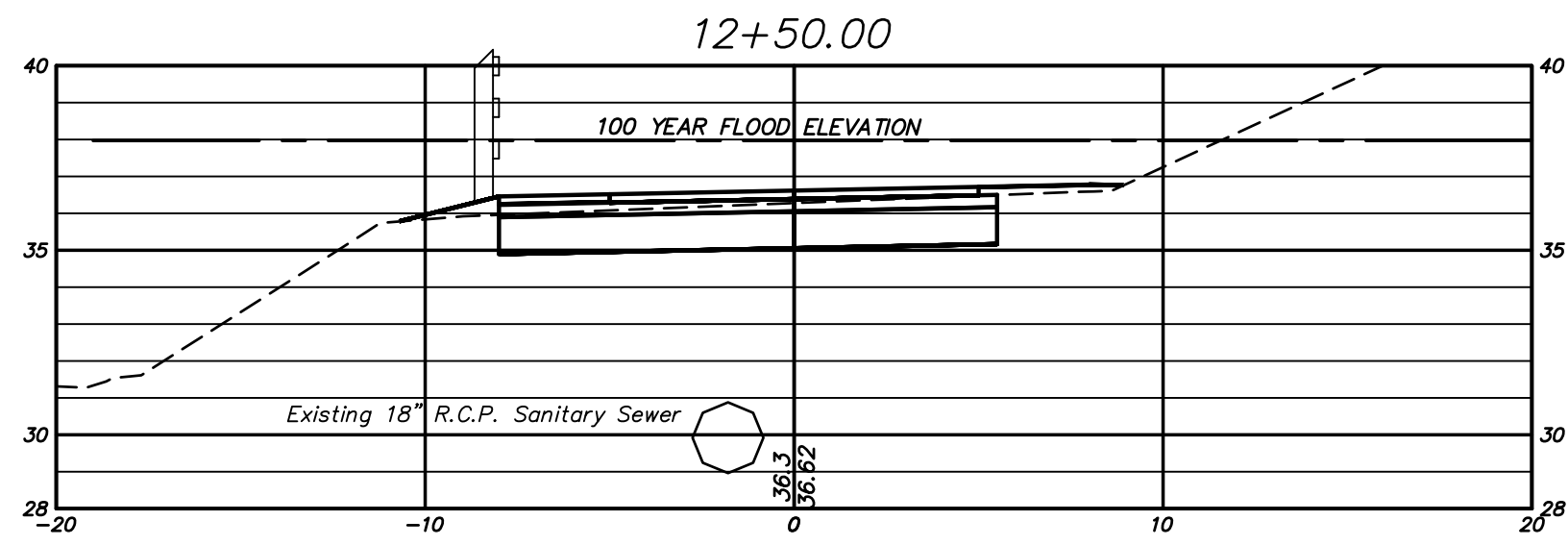
11

OF 24

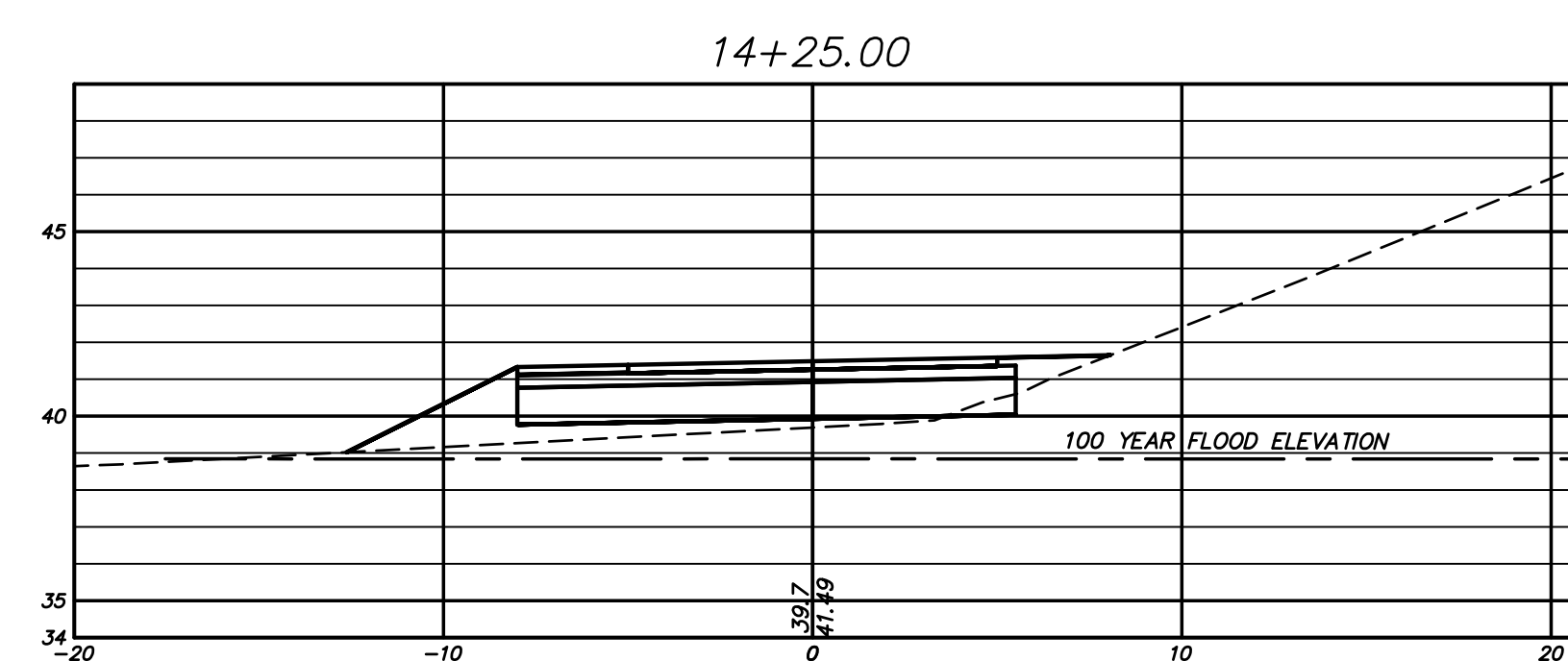
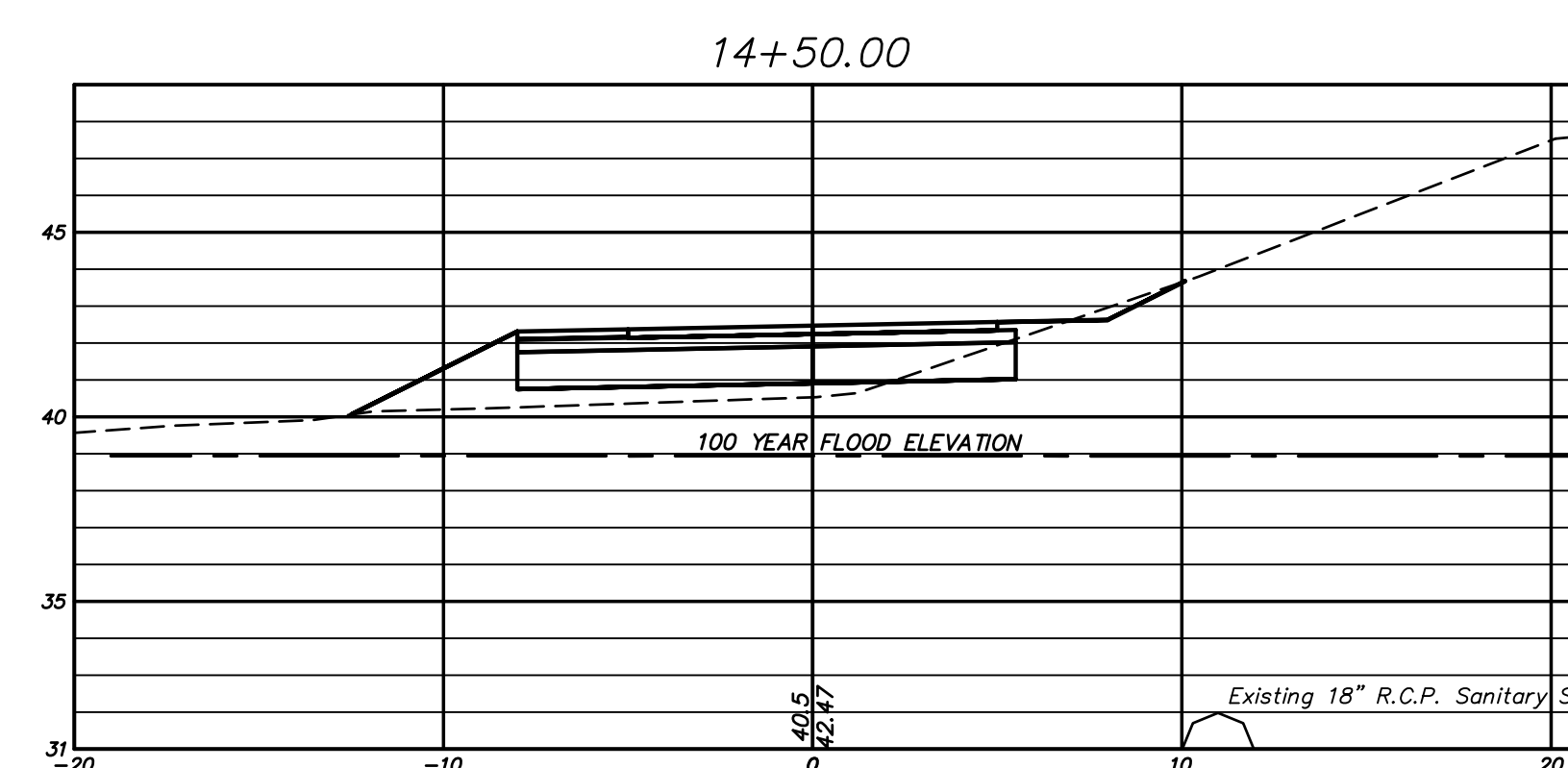
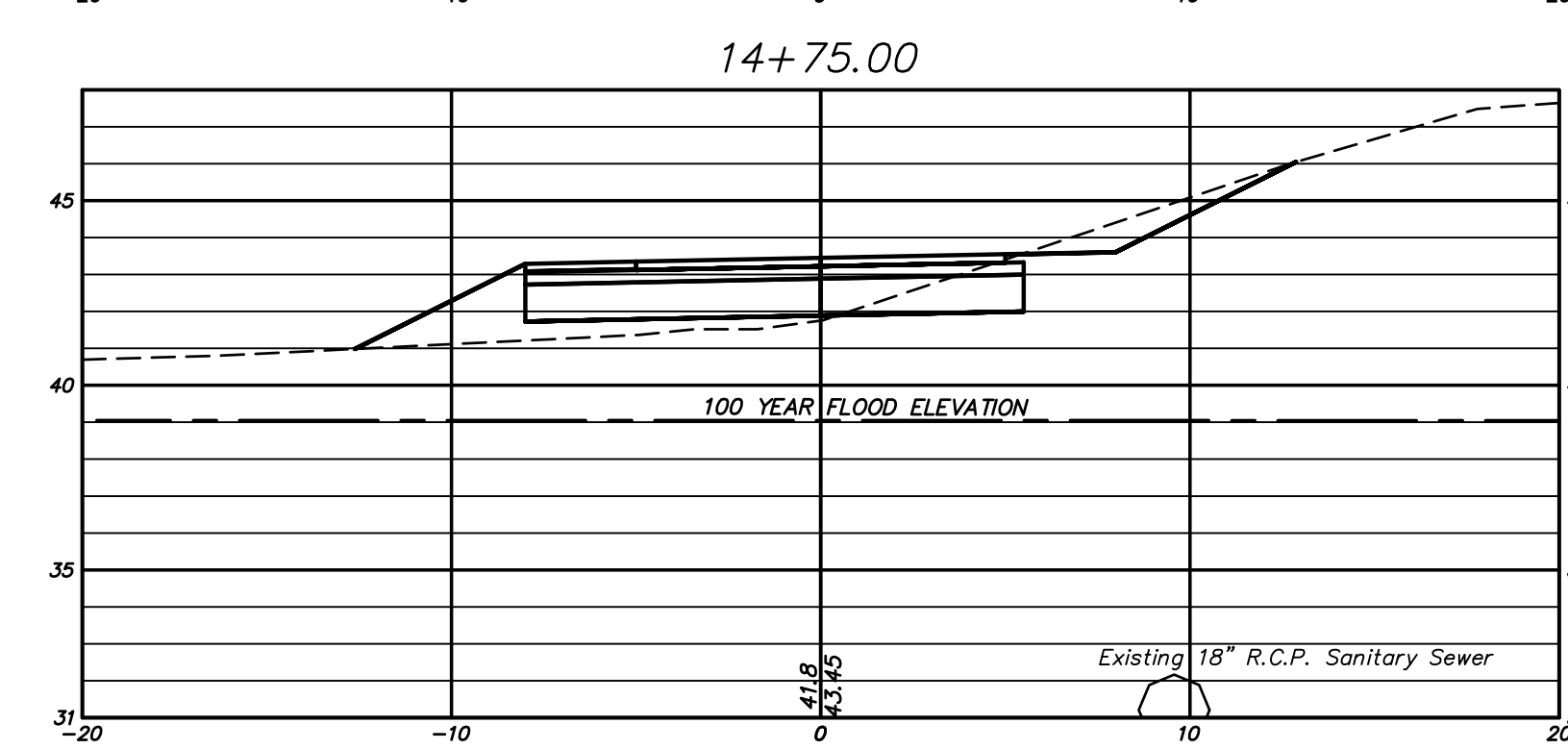
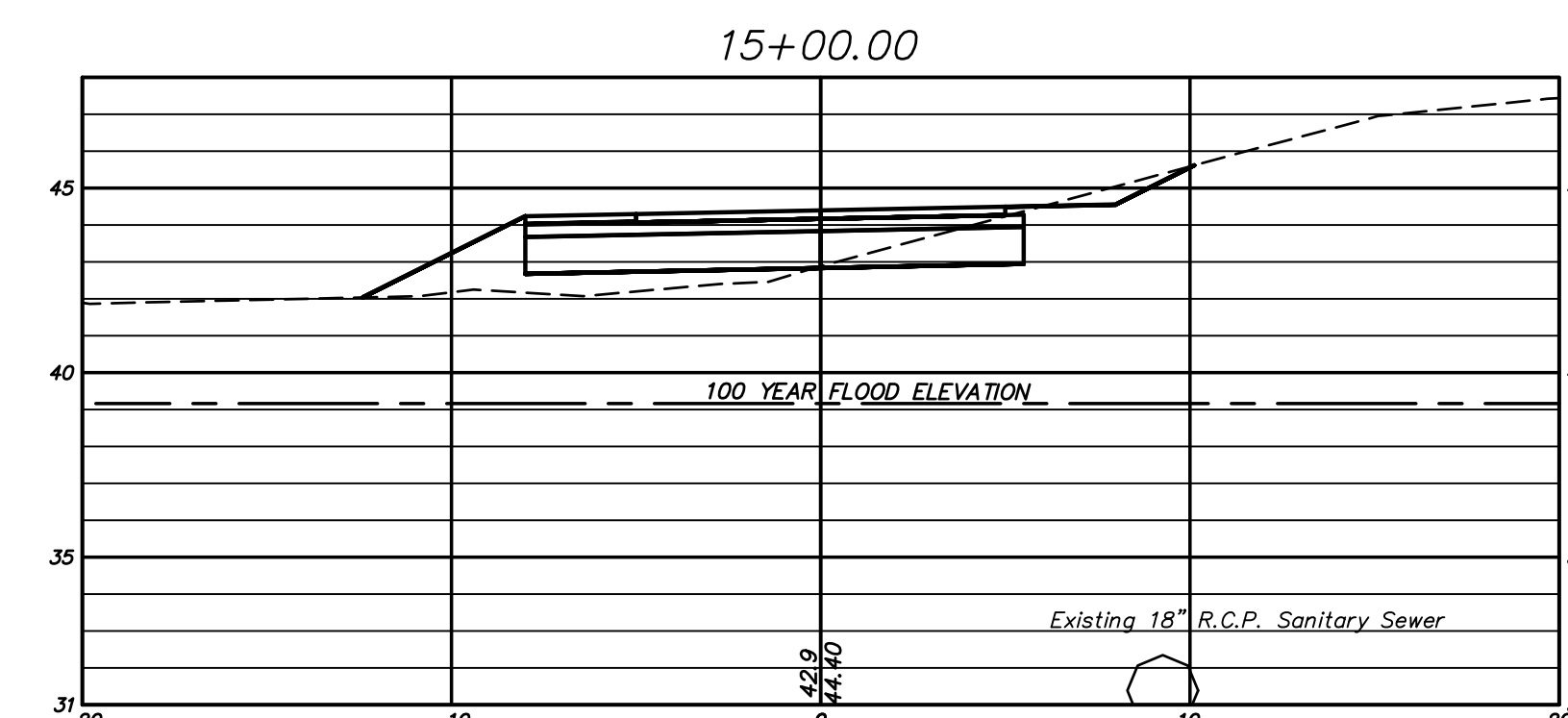
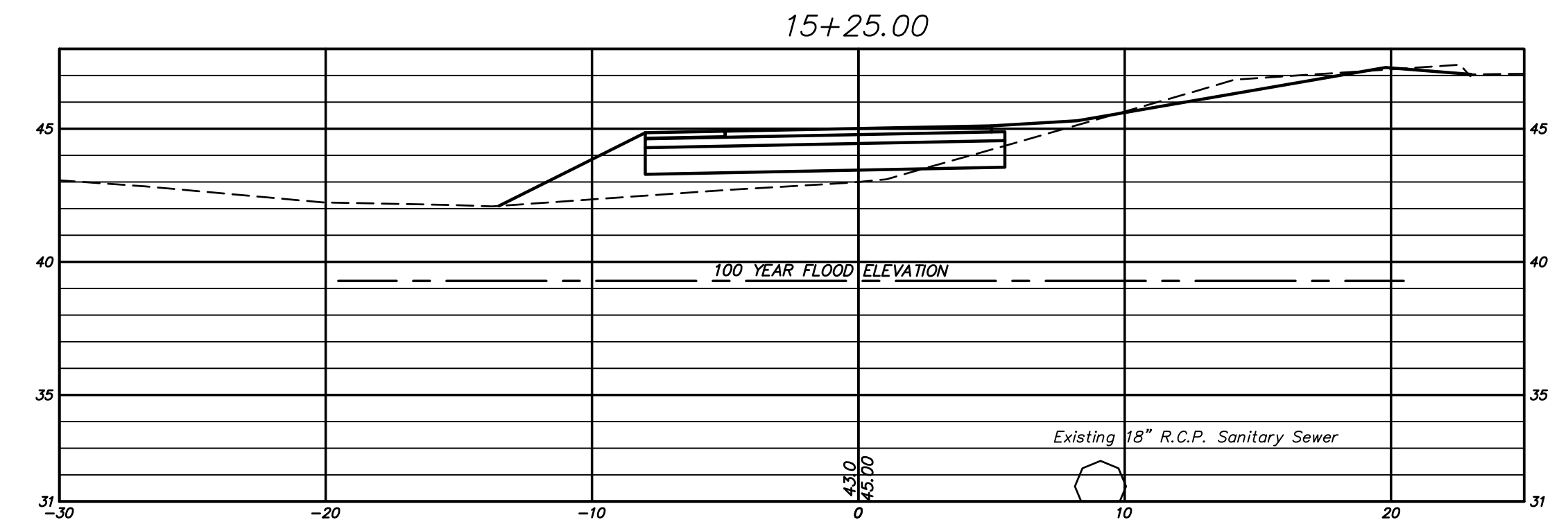
Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 201071

FILE:H:\DWG\Streets\Western Blvd\PW-101 Multi Use Path\Western to House Street - Boardwalk, Alt. 3, Long USER:Steven Troy DATE: 8/8/2019



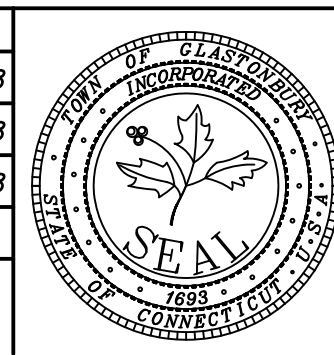
SCALE:
Horizontal 1"=5'
Vertical 1"=5'



Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
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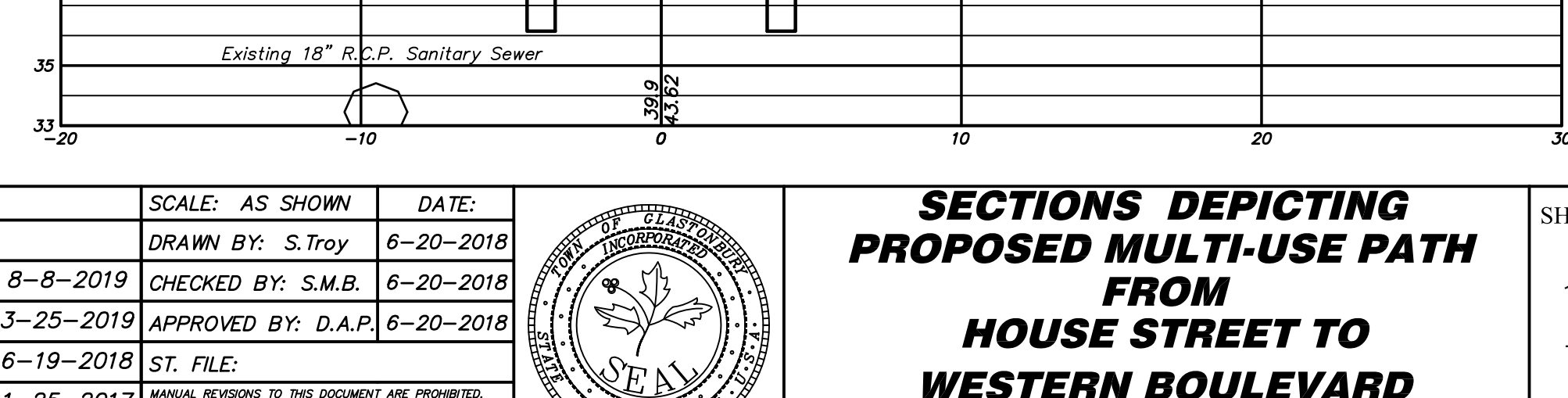
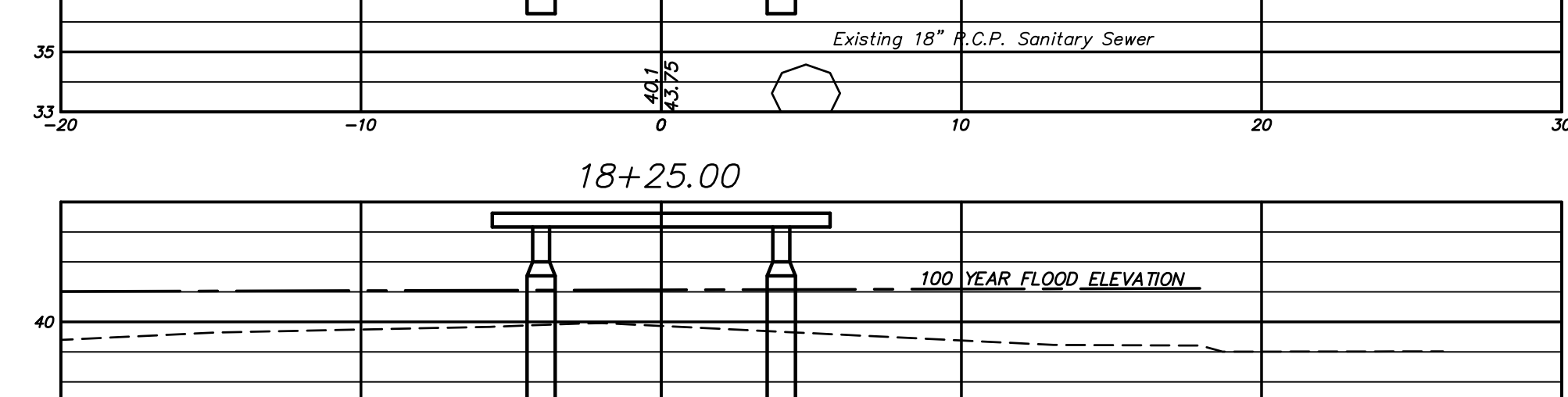
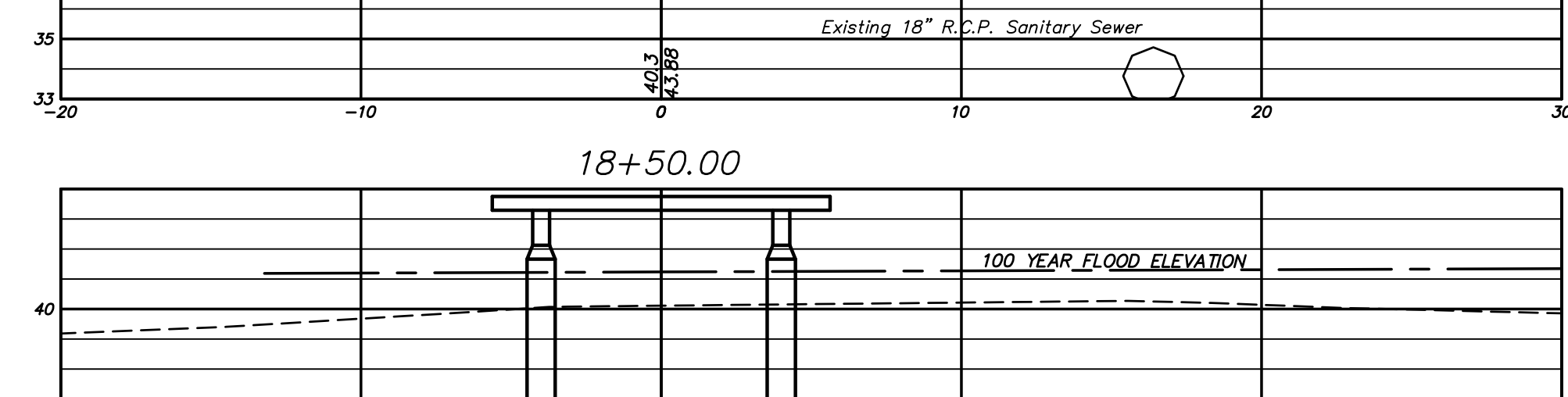
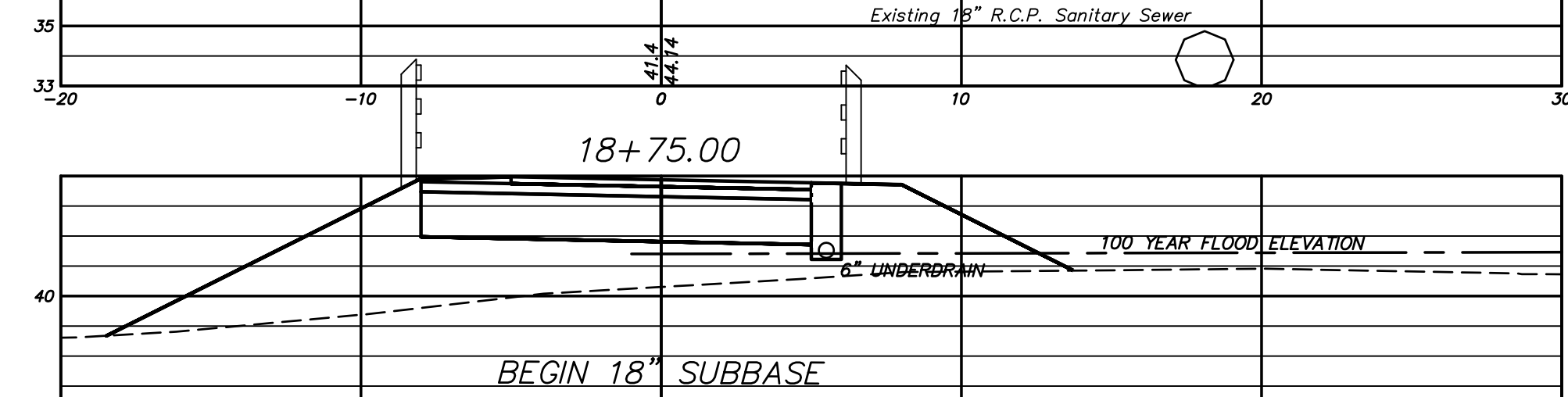
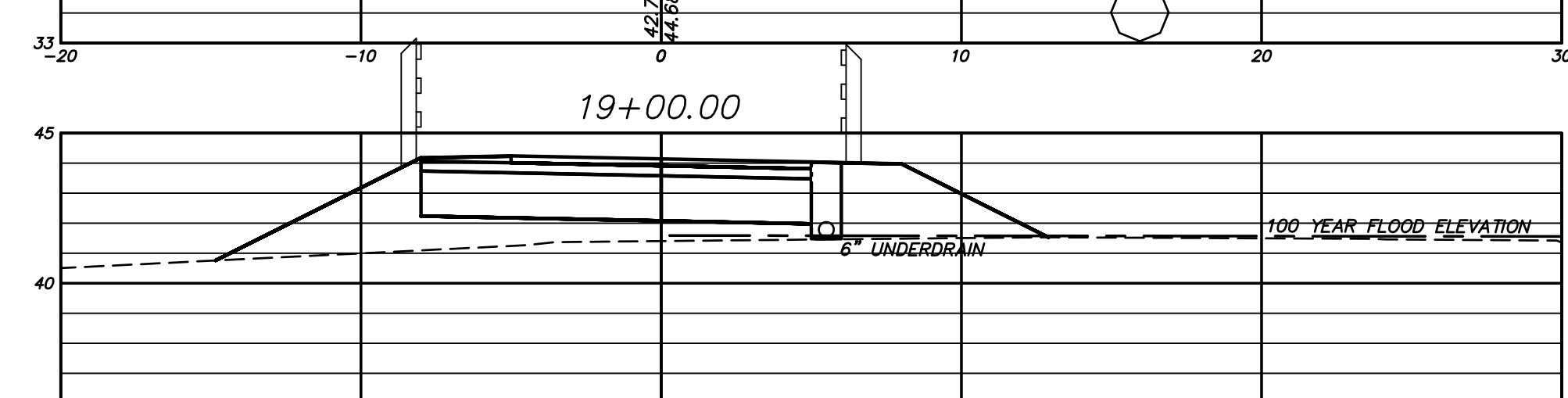
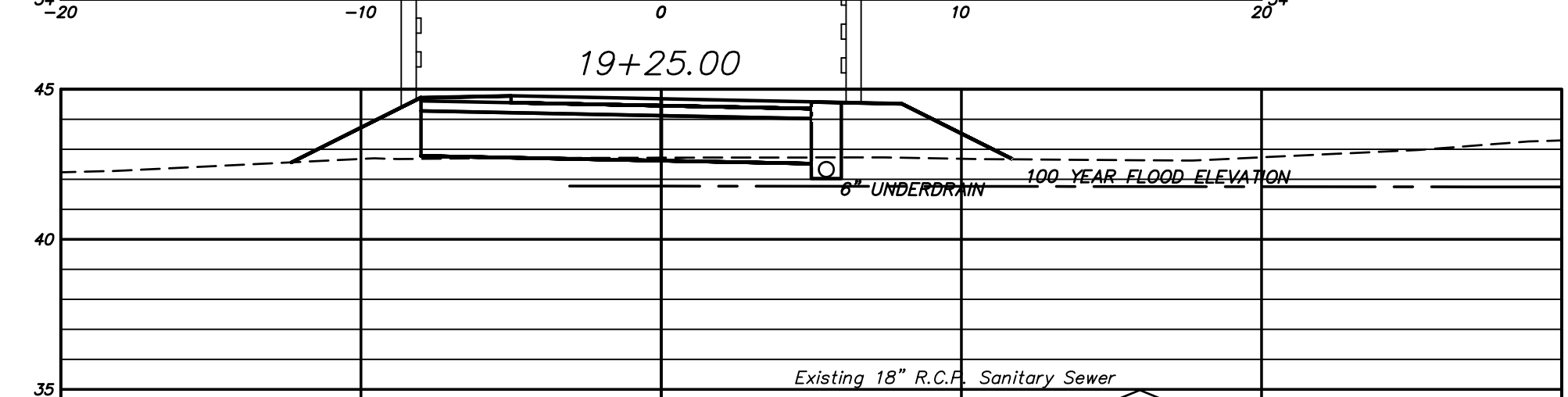
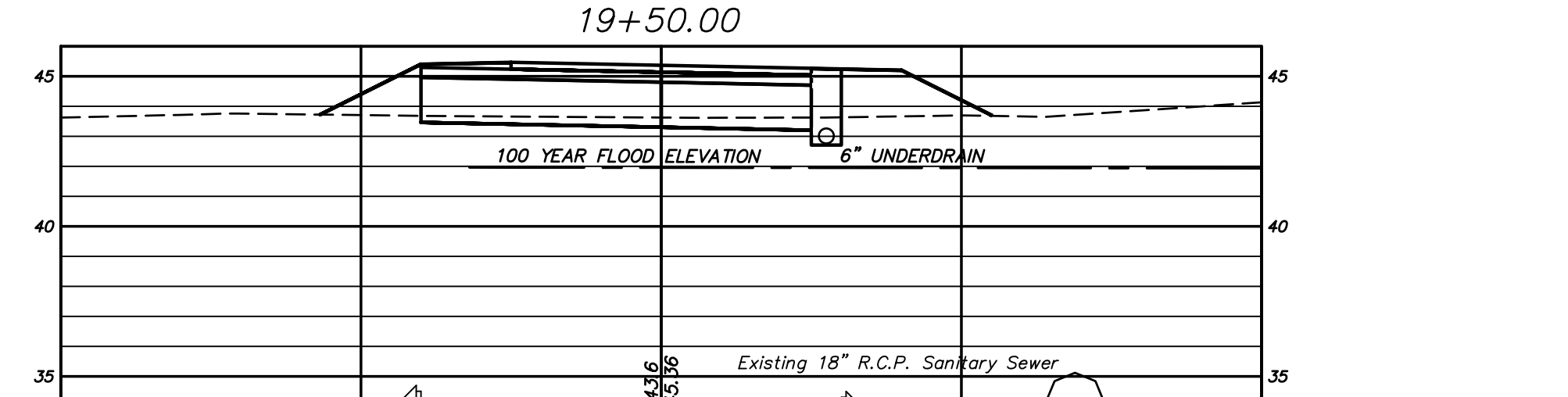
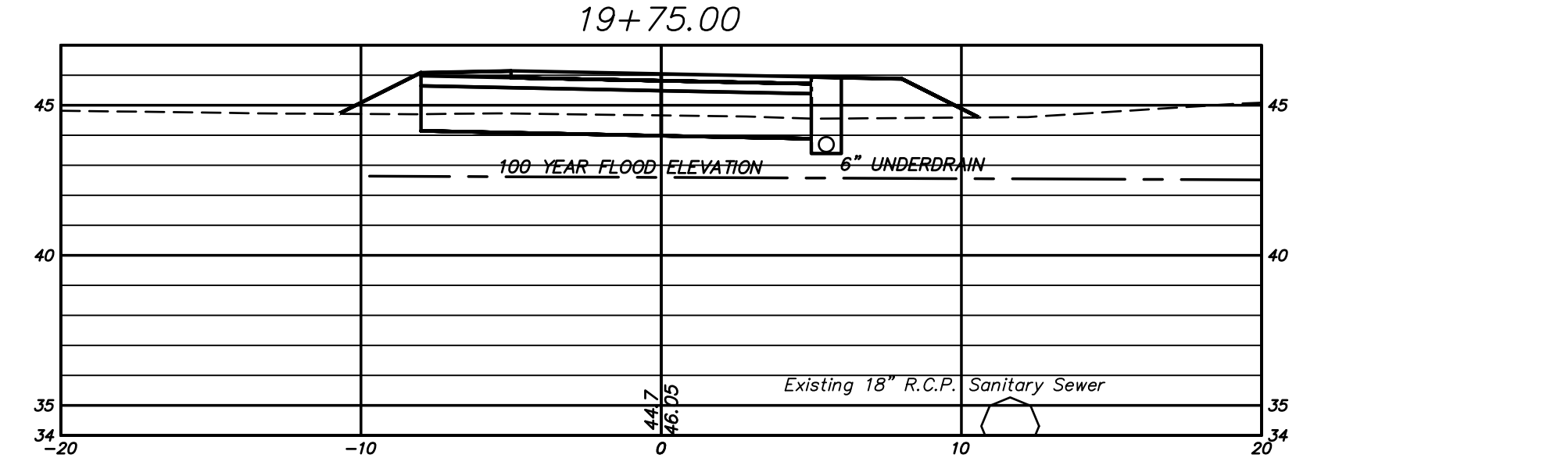
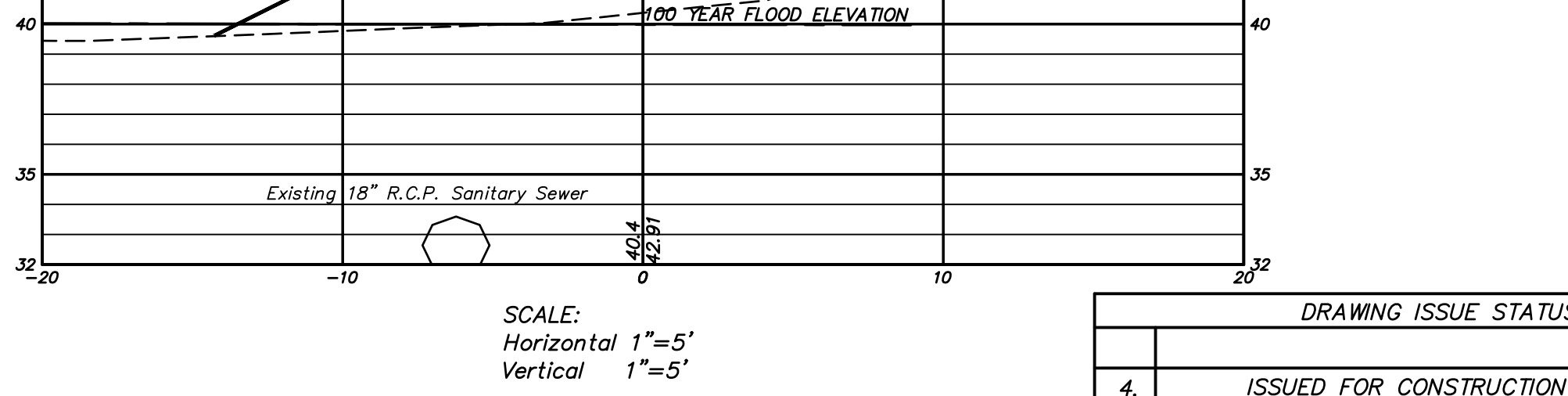
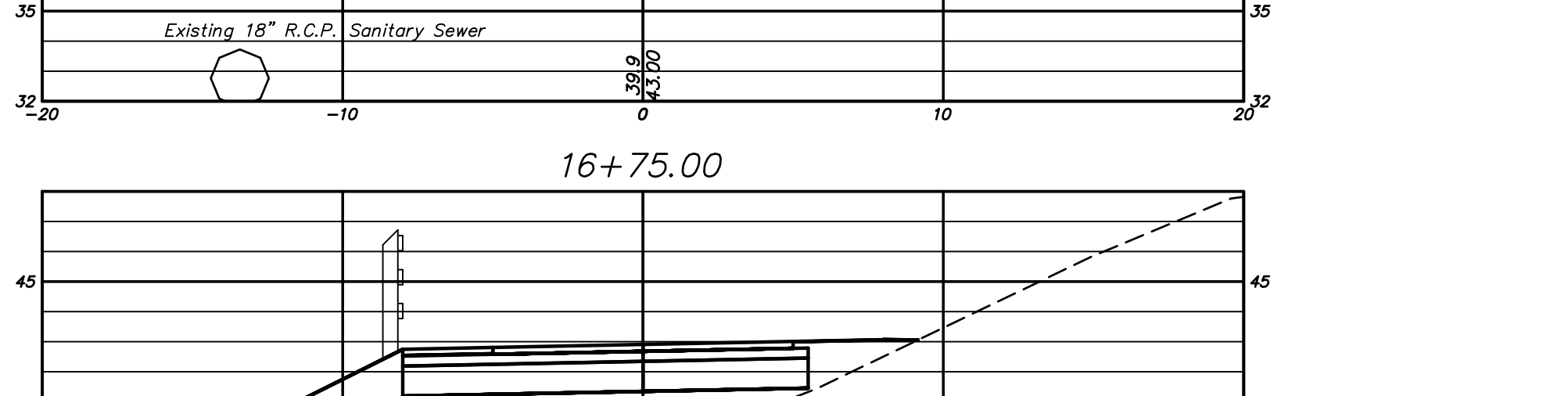
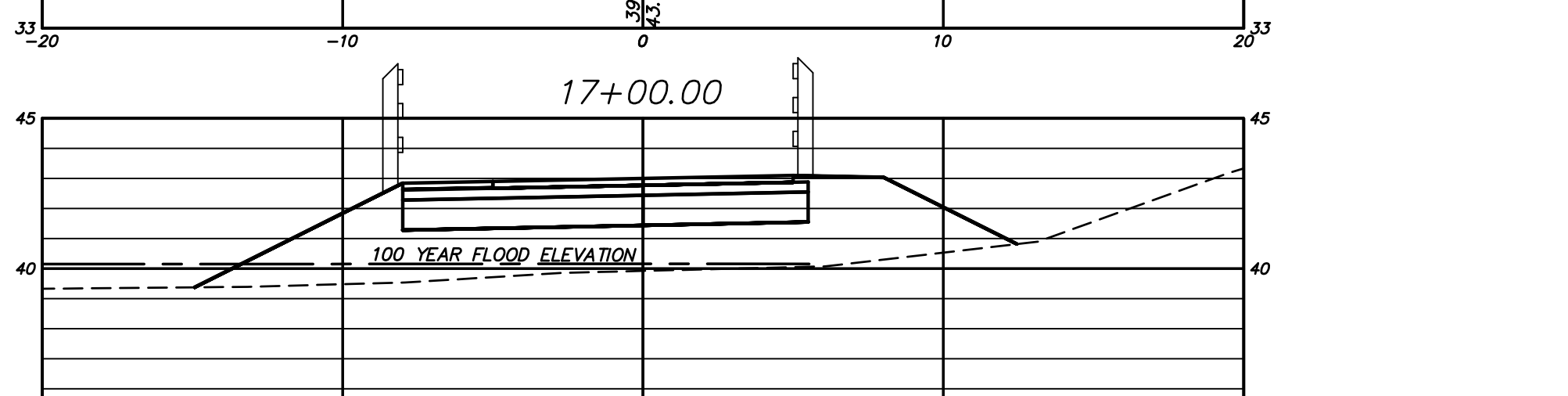
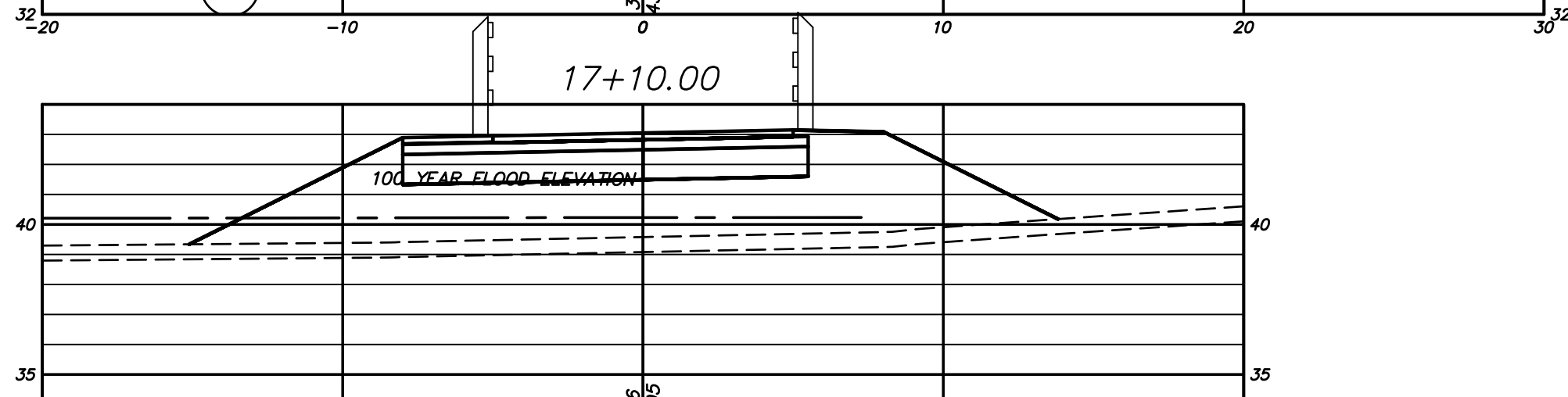
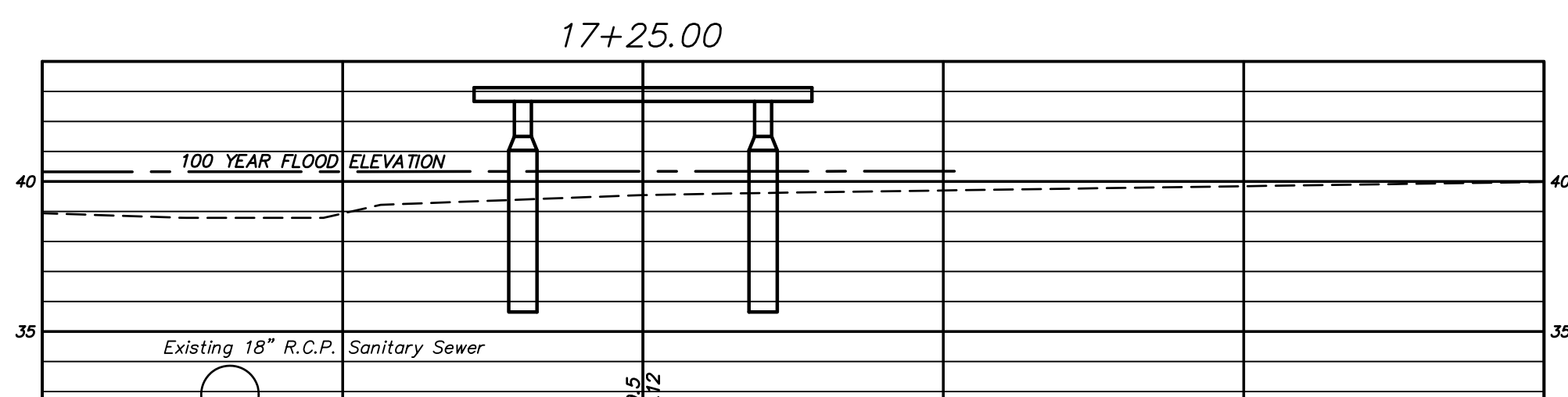
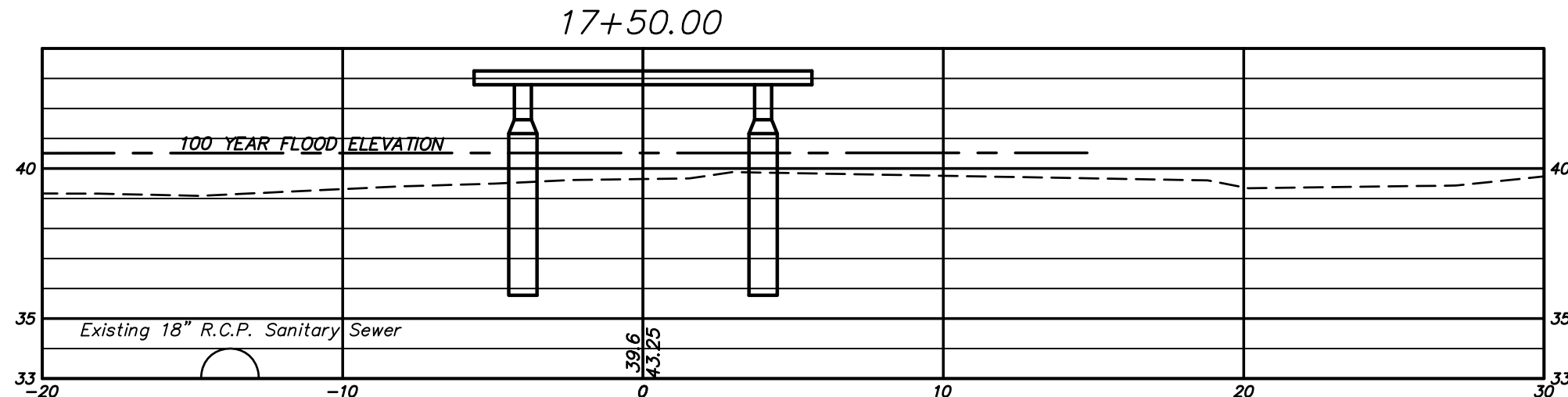
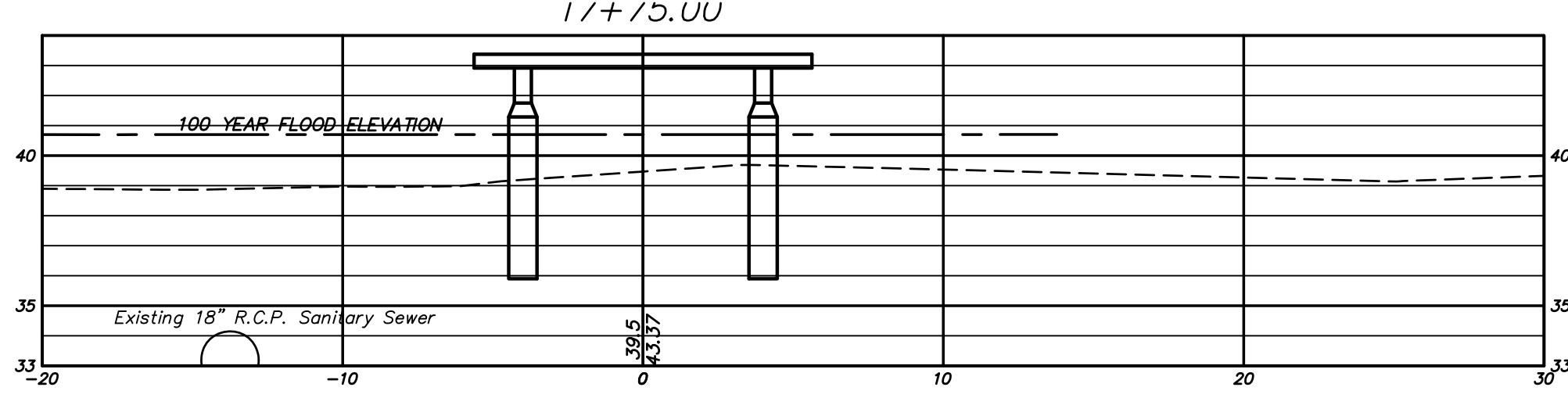
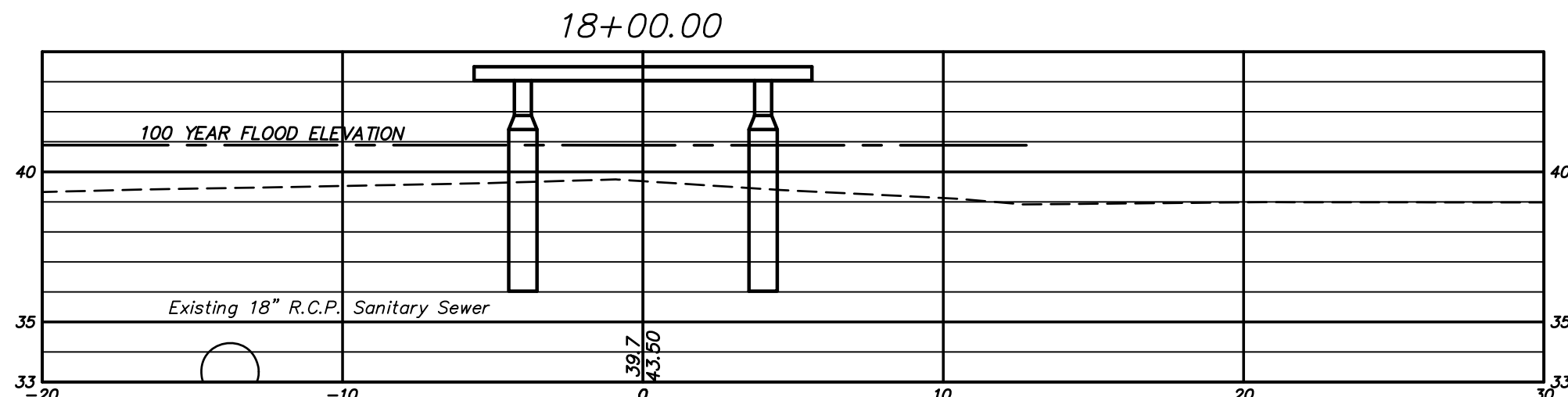
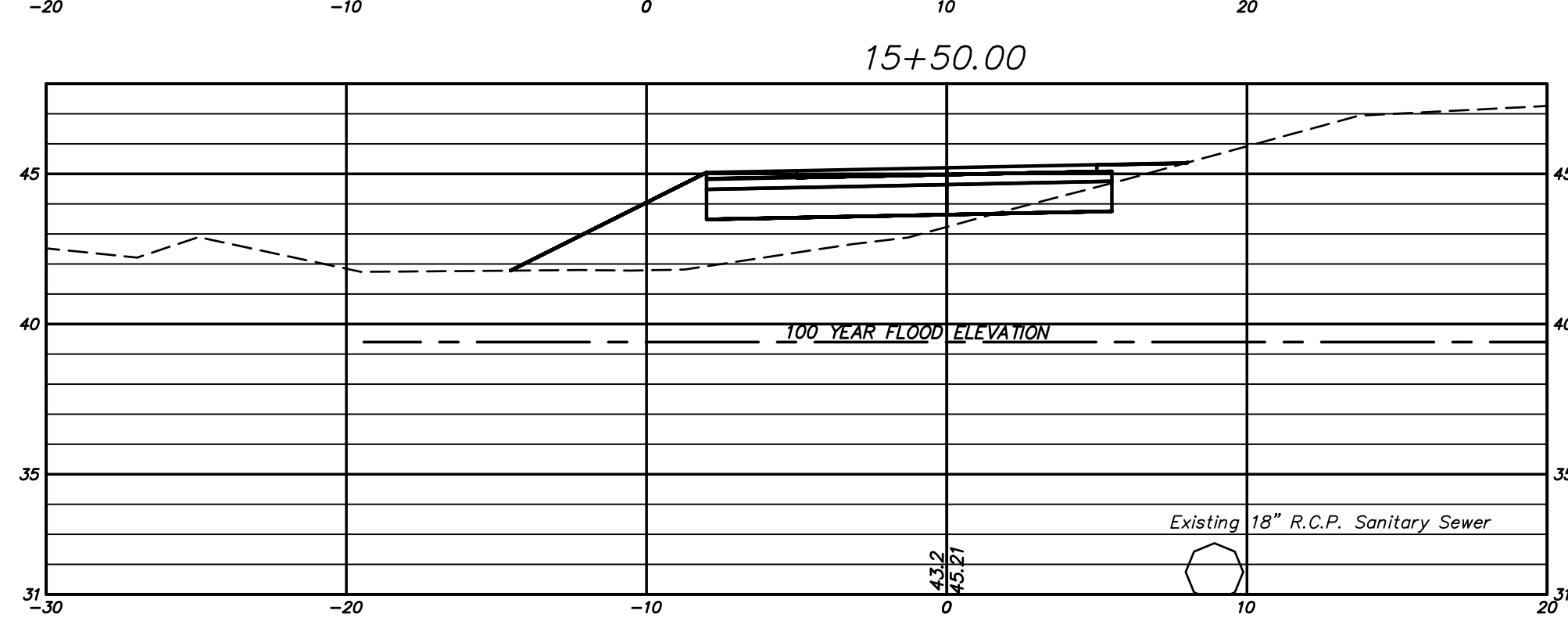
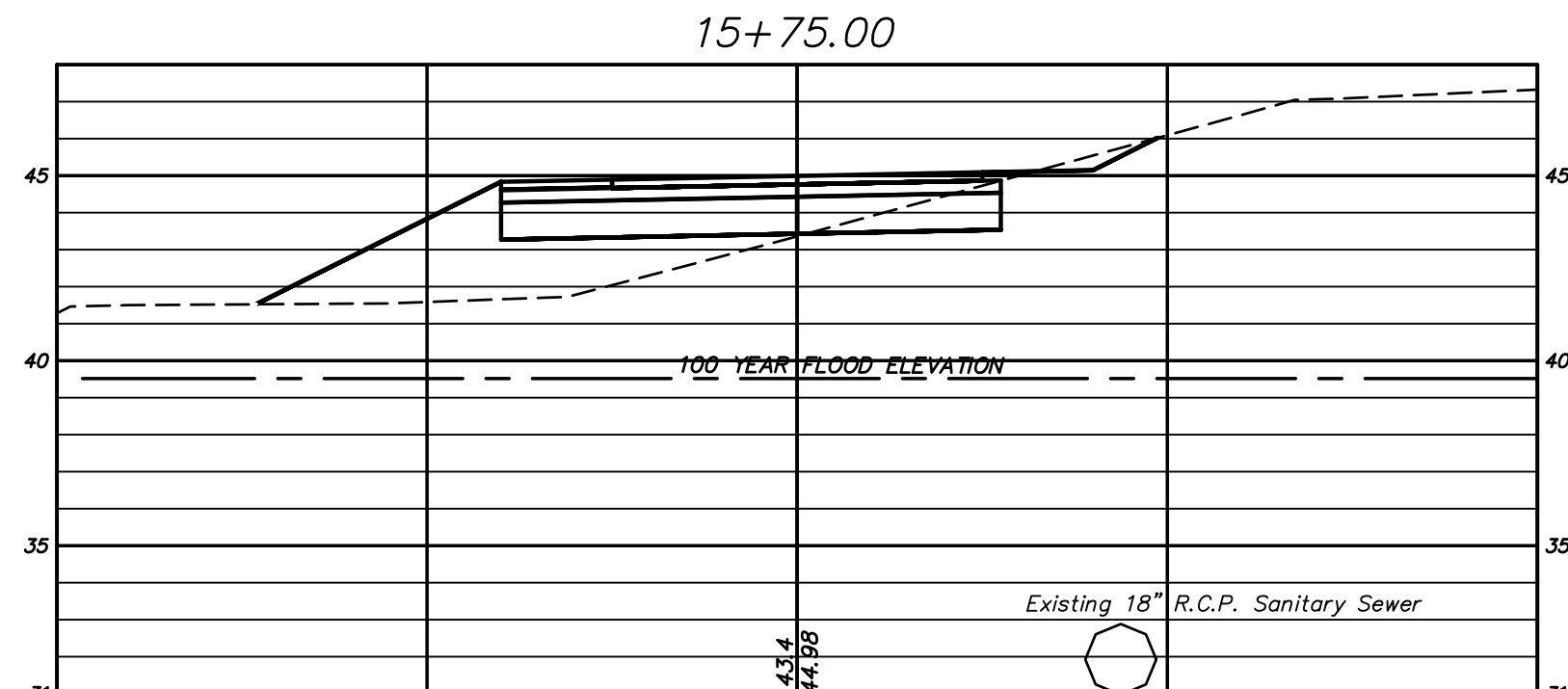
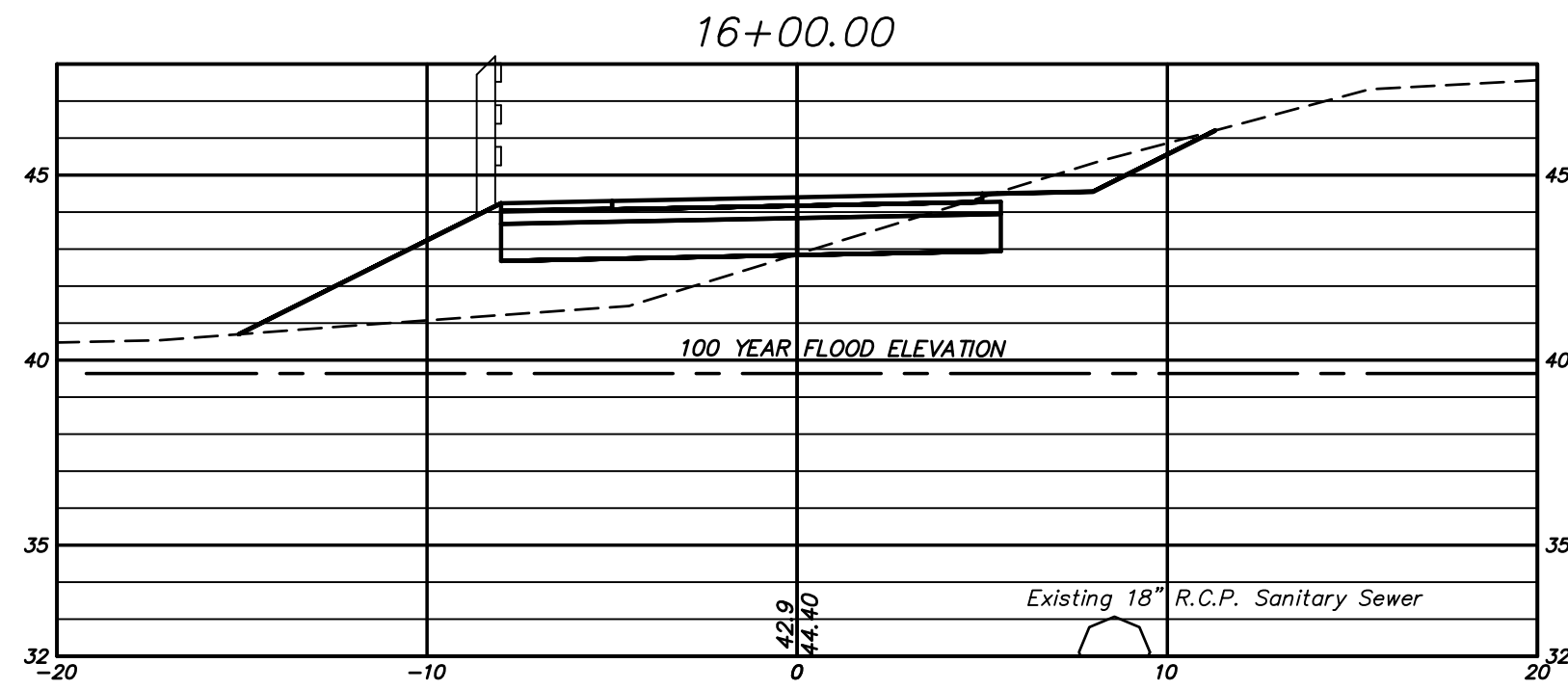
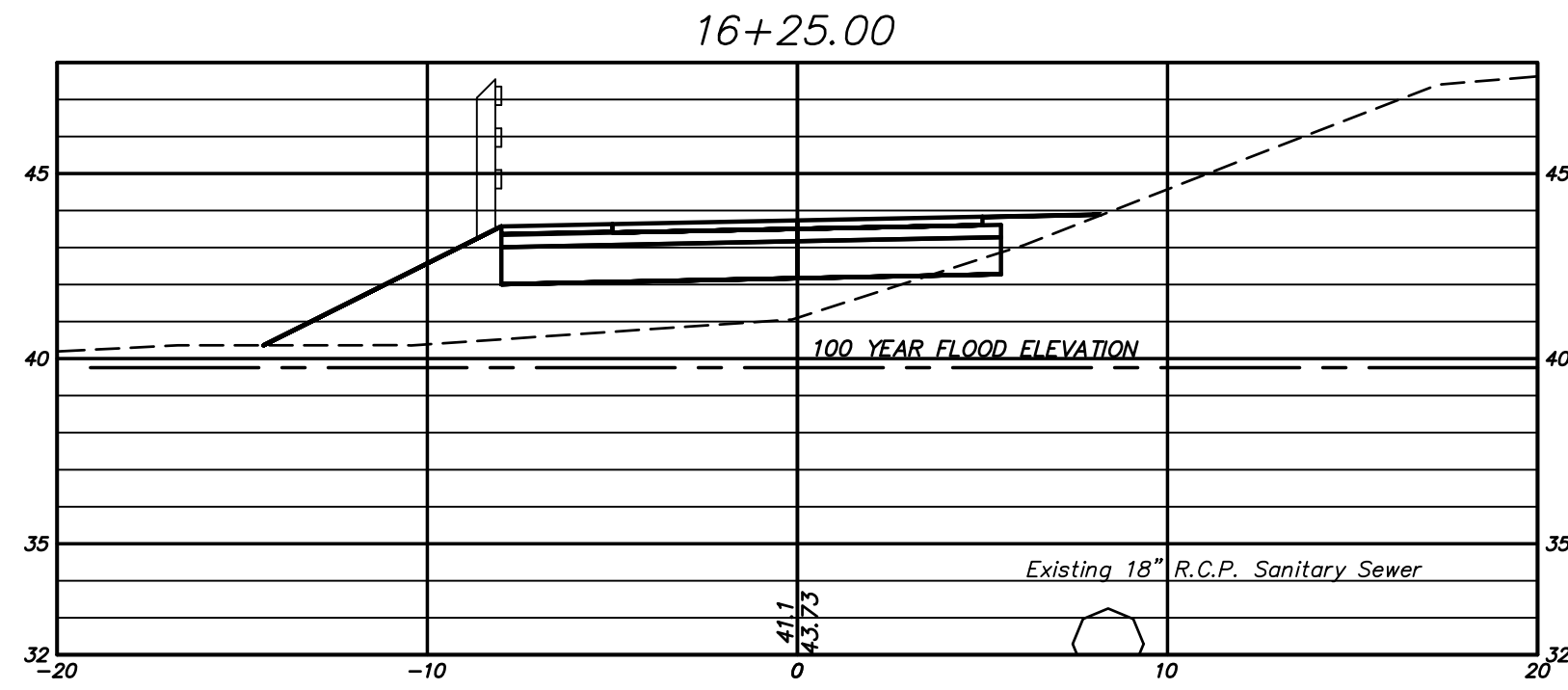
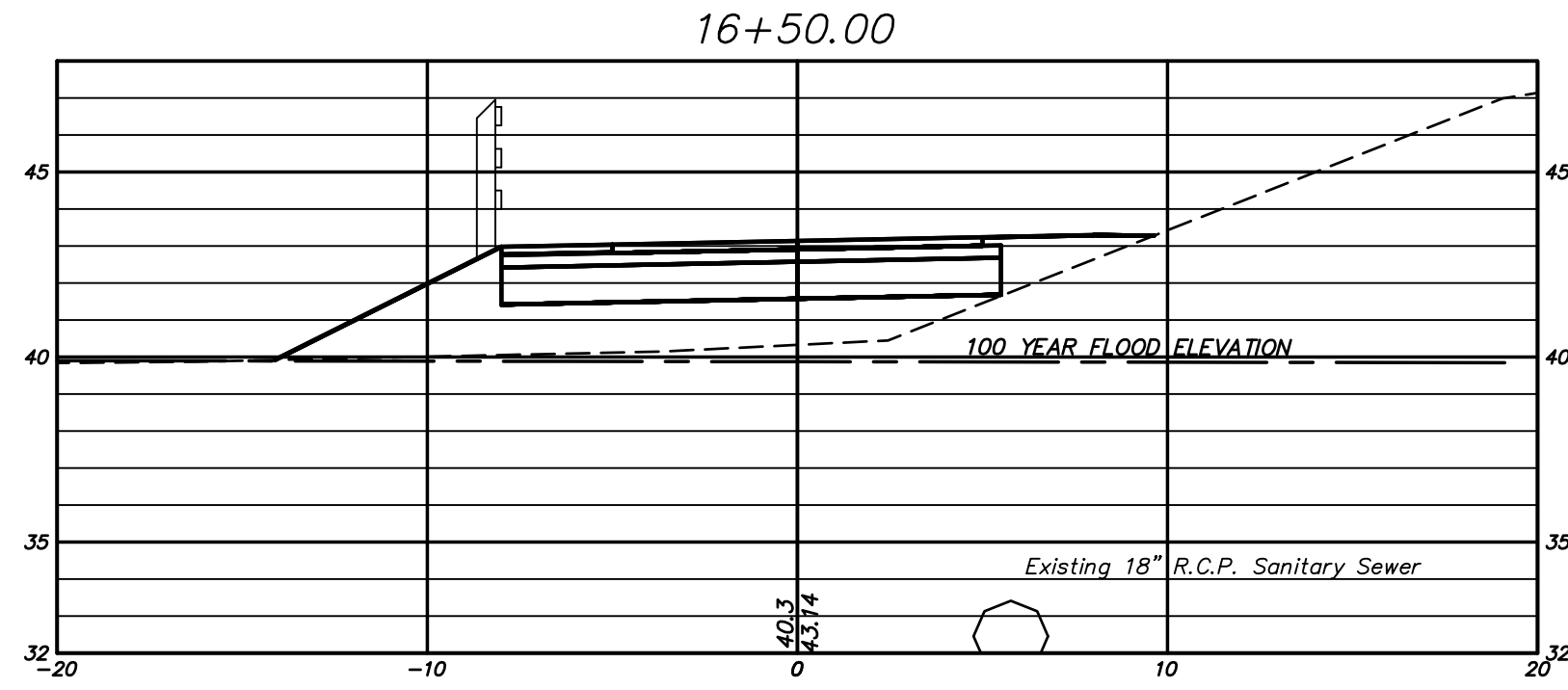
**SECTIONS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

12

OF 24

FILE: H:\DWG\Streets\Western Blvd\PW-101 Multi Use Path Western to House Street - Boardwalk, Alt. 3.dwg USER: Steven Troy DATE: 8/8/2019

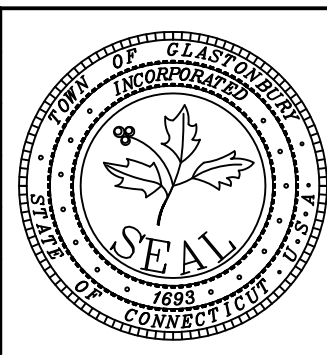


Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

SCALE:
Horizontal 1"=5'
Vertical 1"=5'

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
NO.	DESCRIPTION	DATE	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS CONTACT THE TOWN OF GLASTONBURY ENGINEERING OFFICE AT (860) 632-7725.	



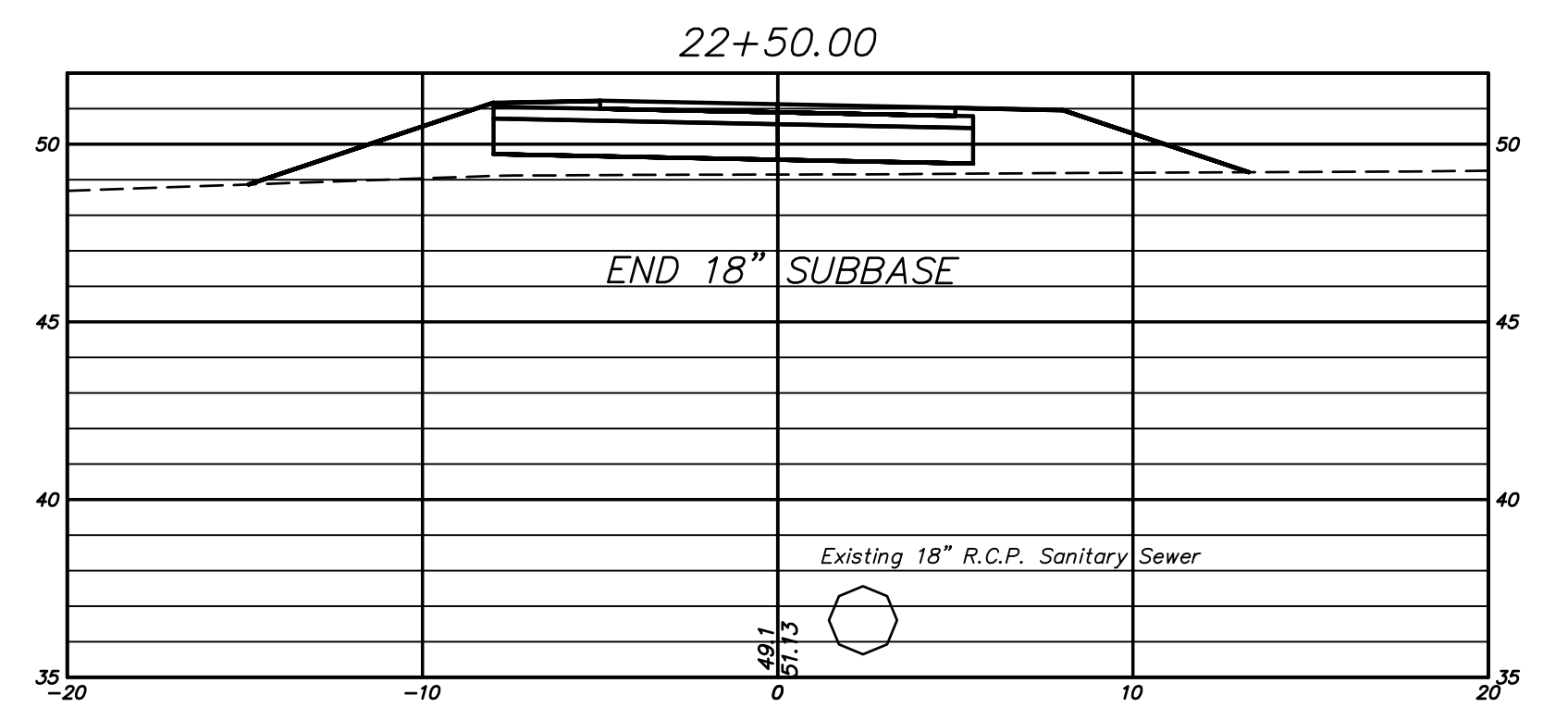
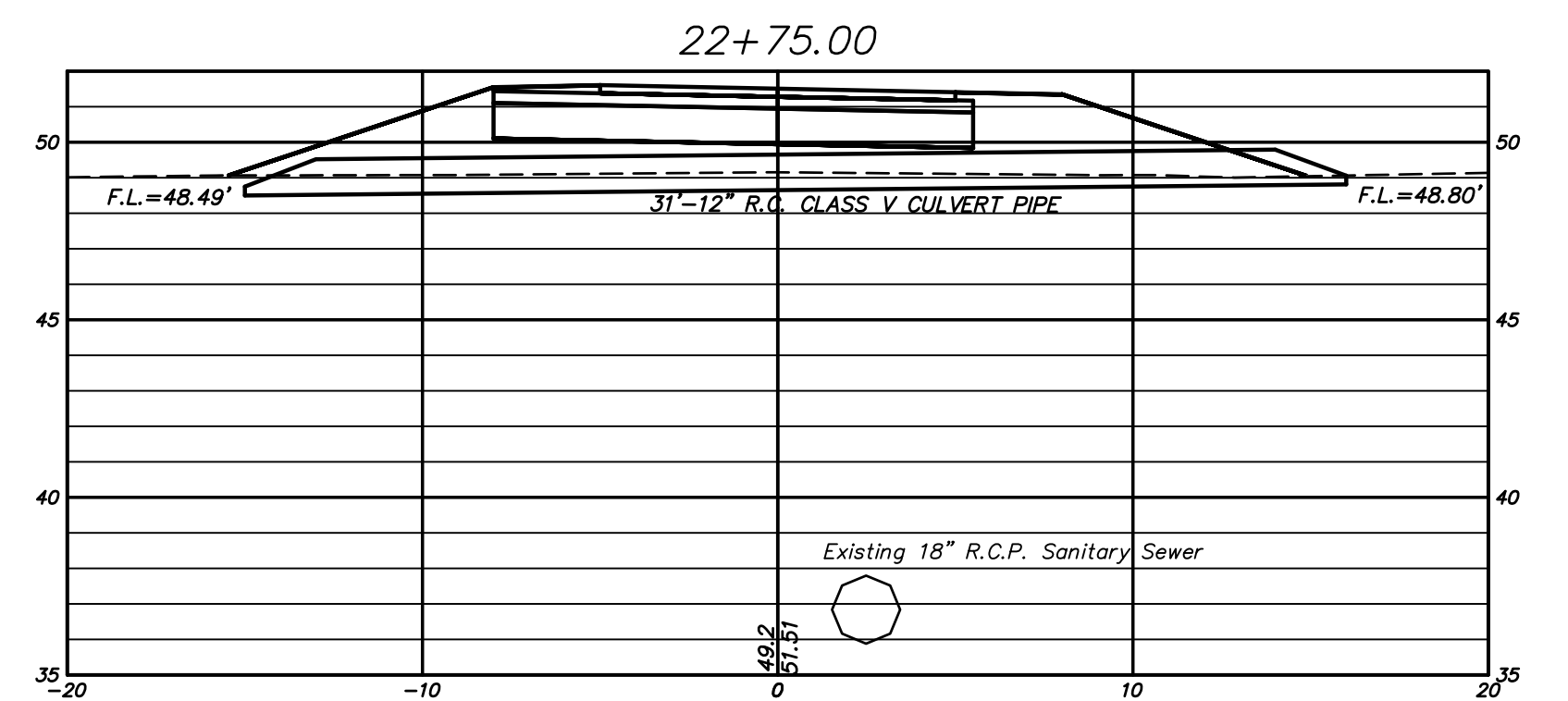
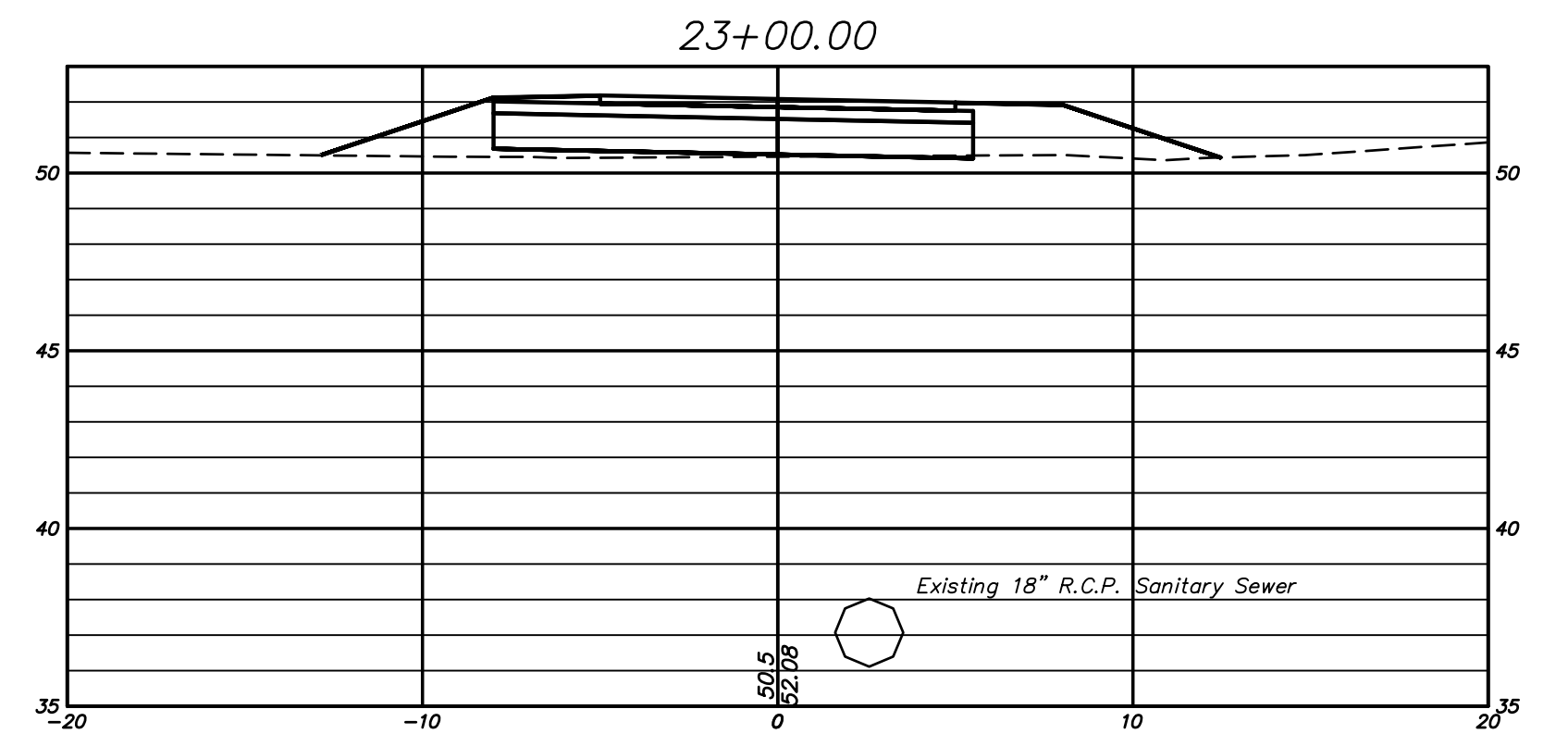
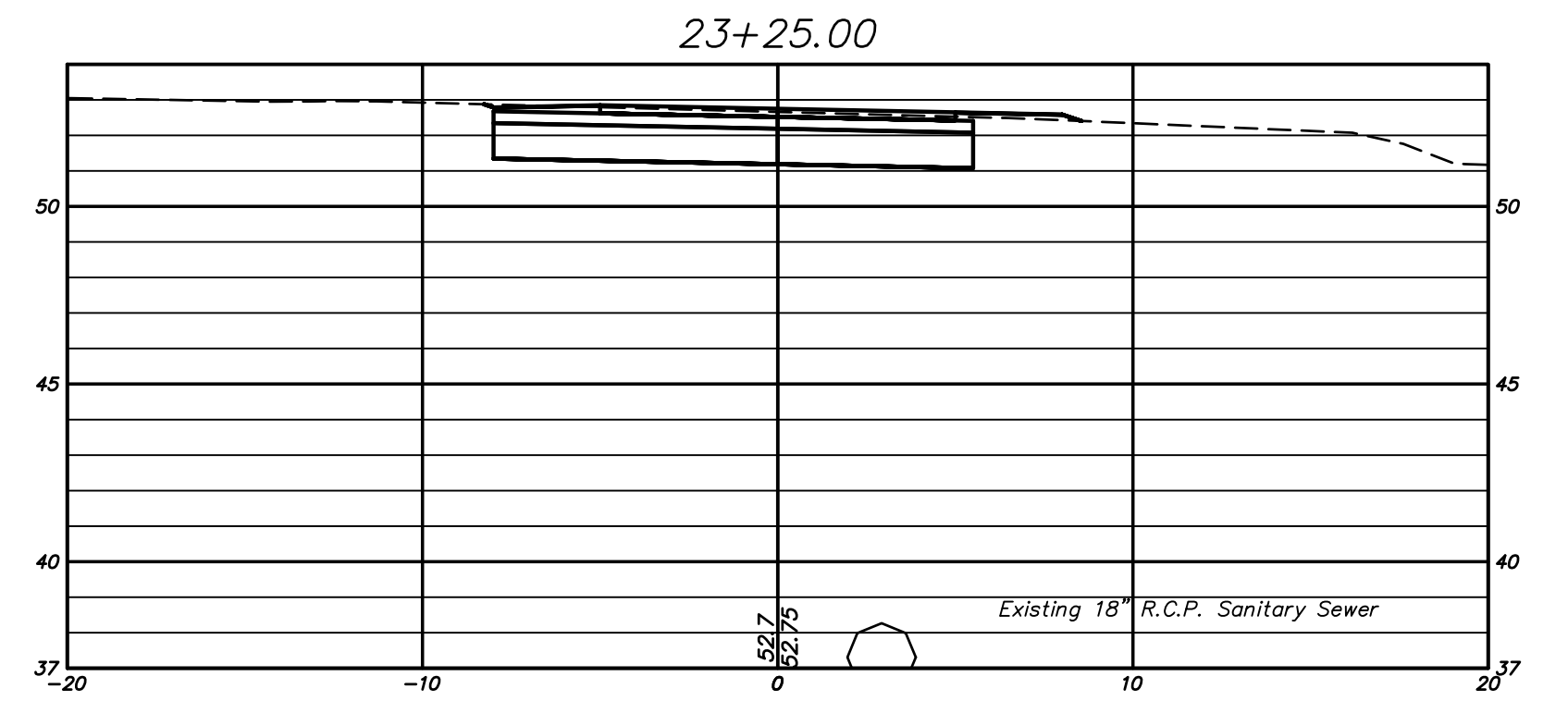
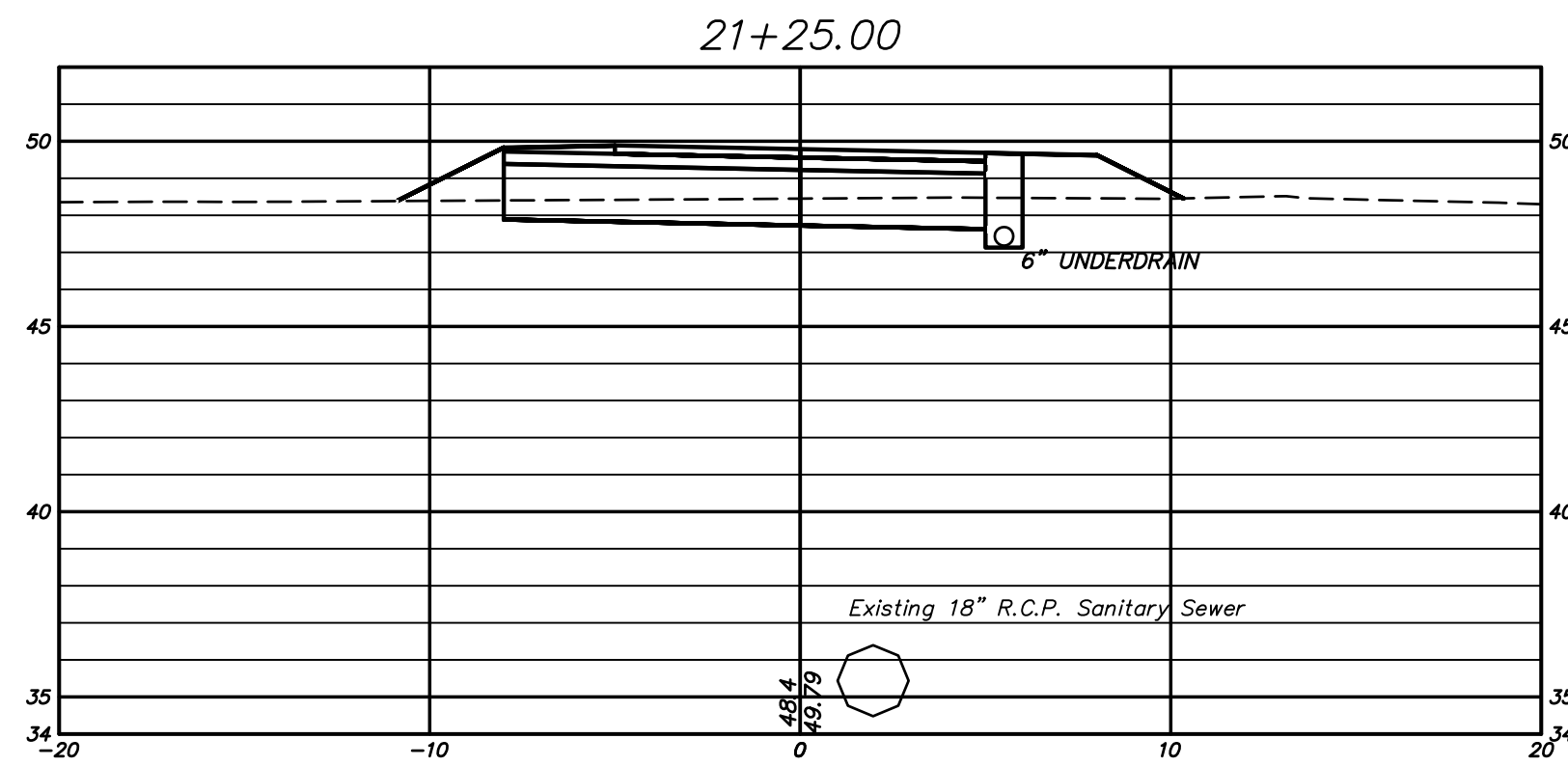
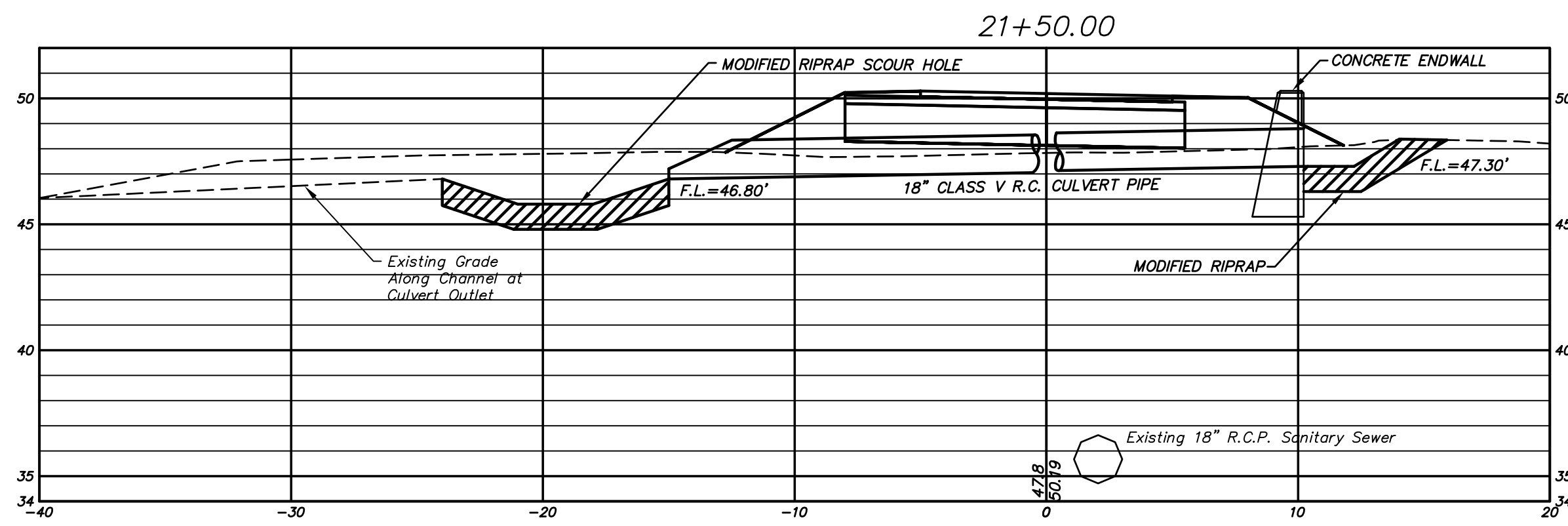
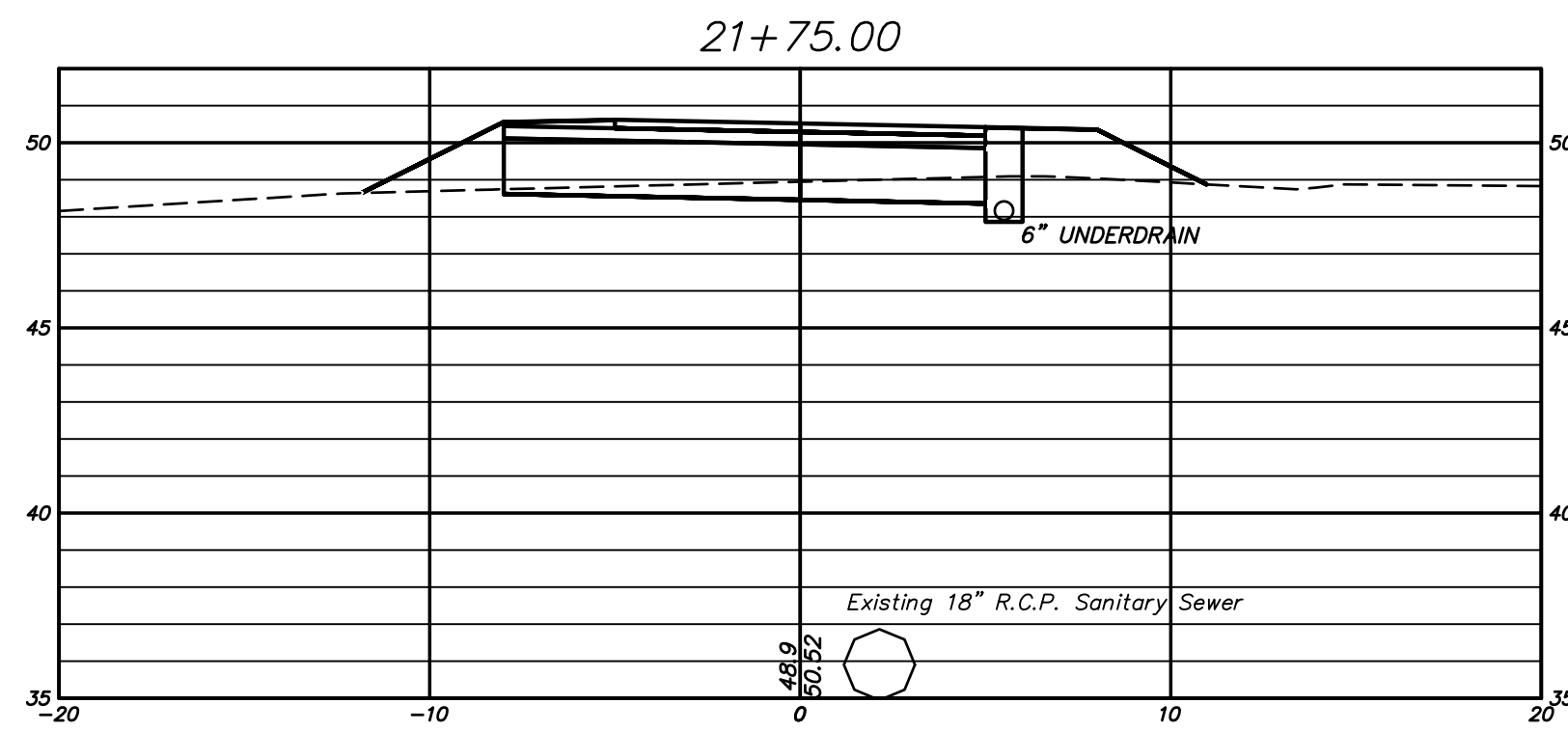
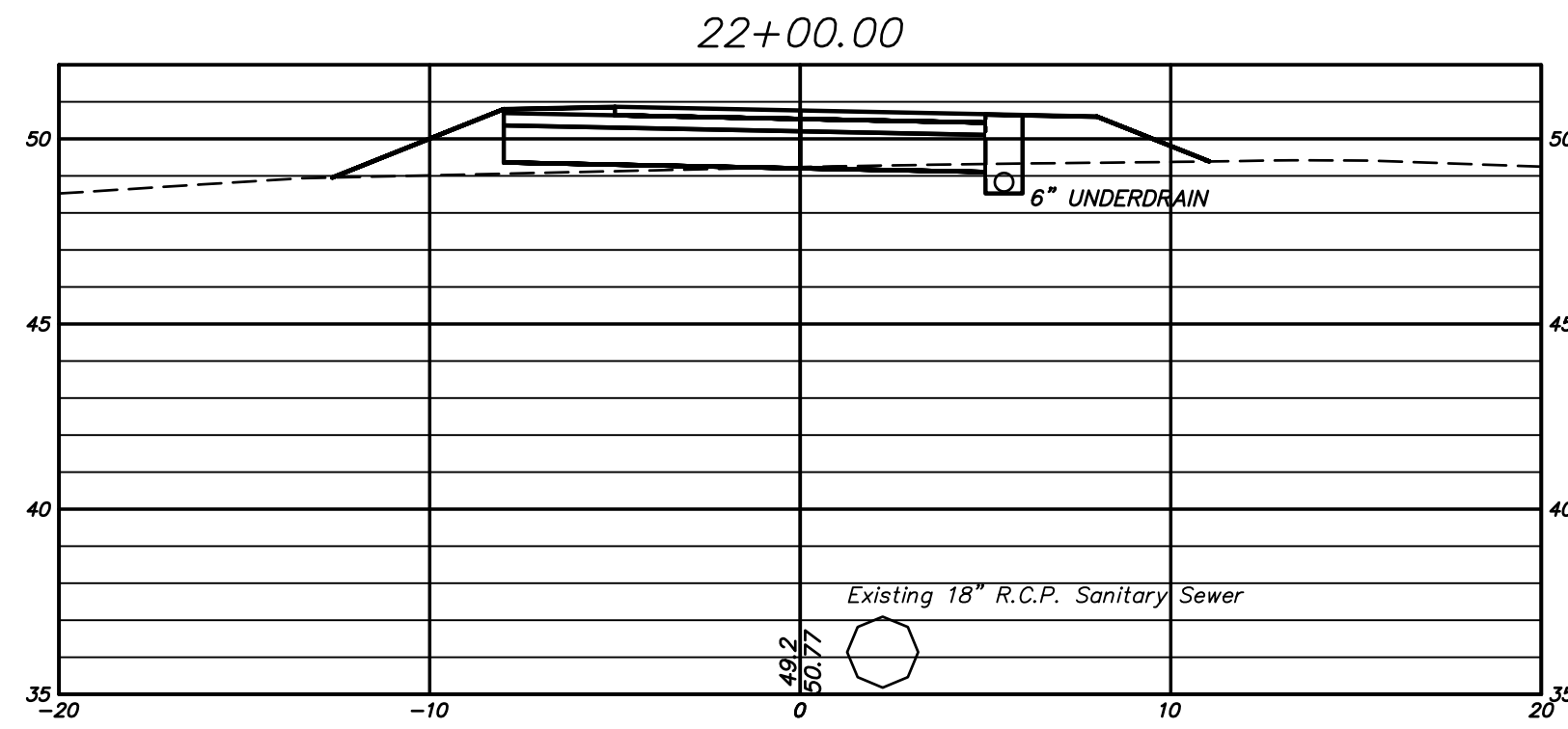
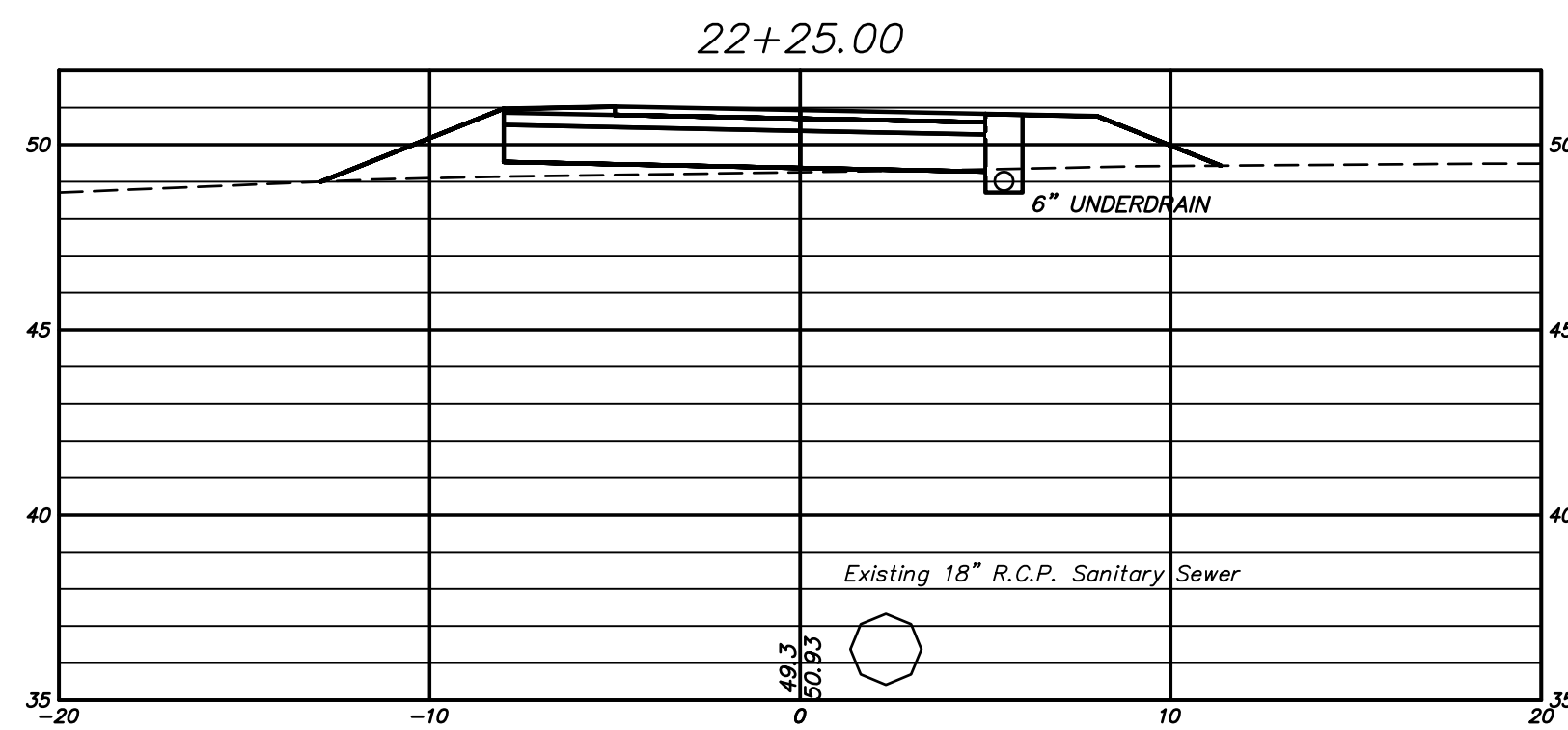
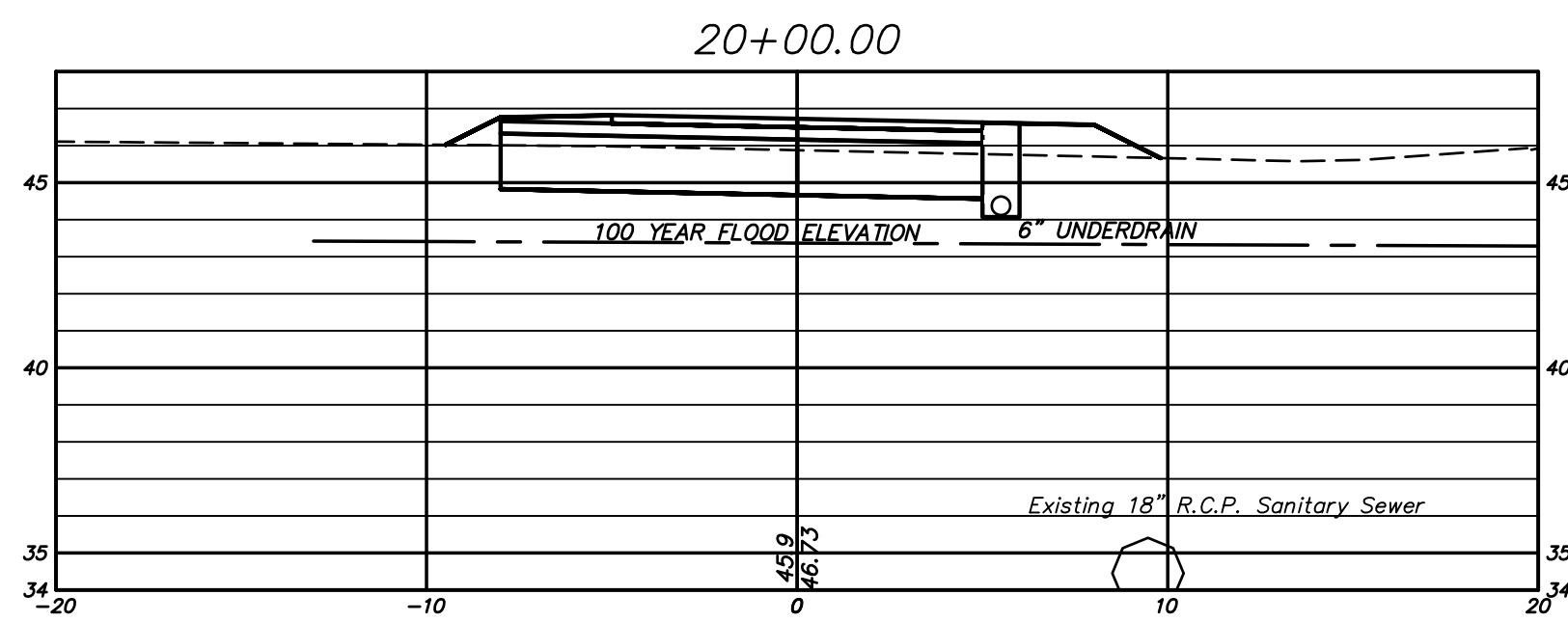
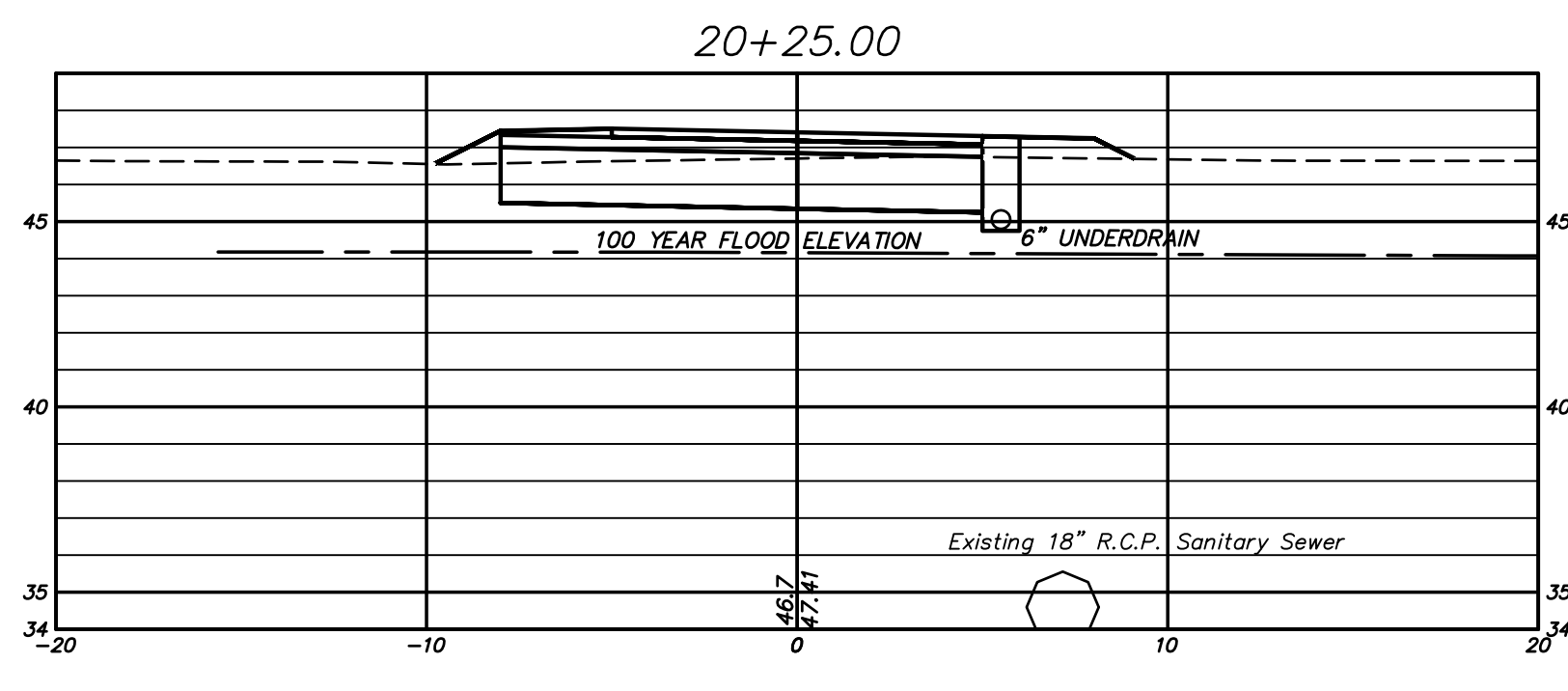
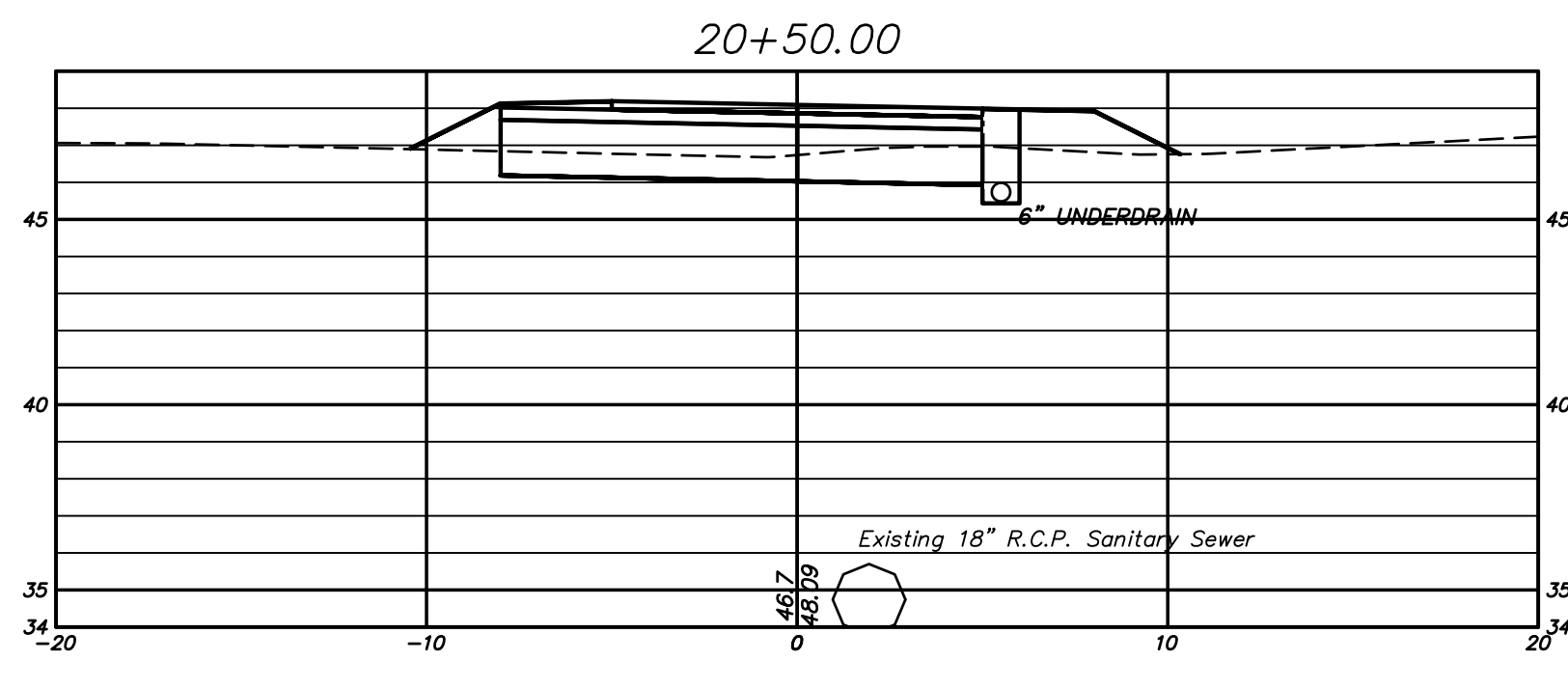
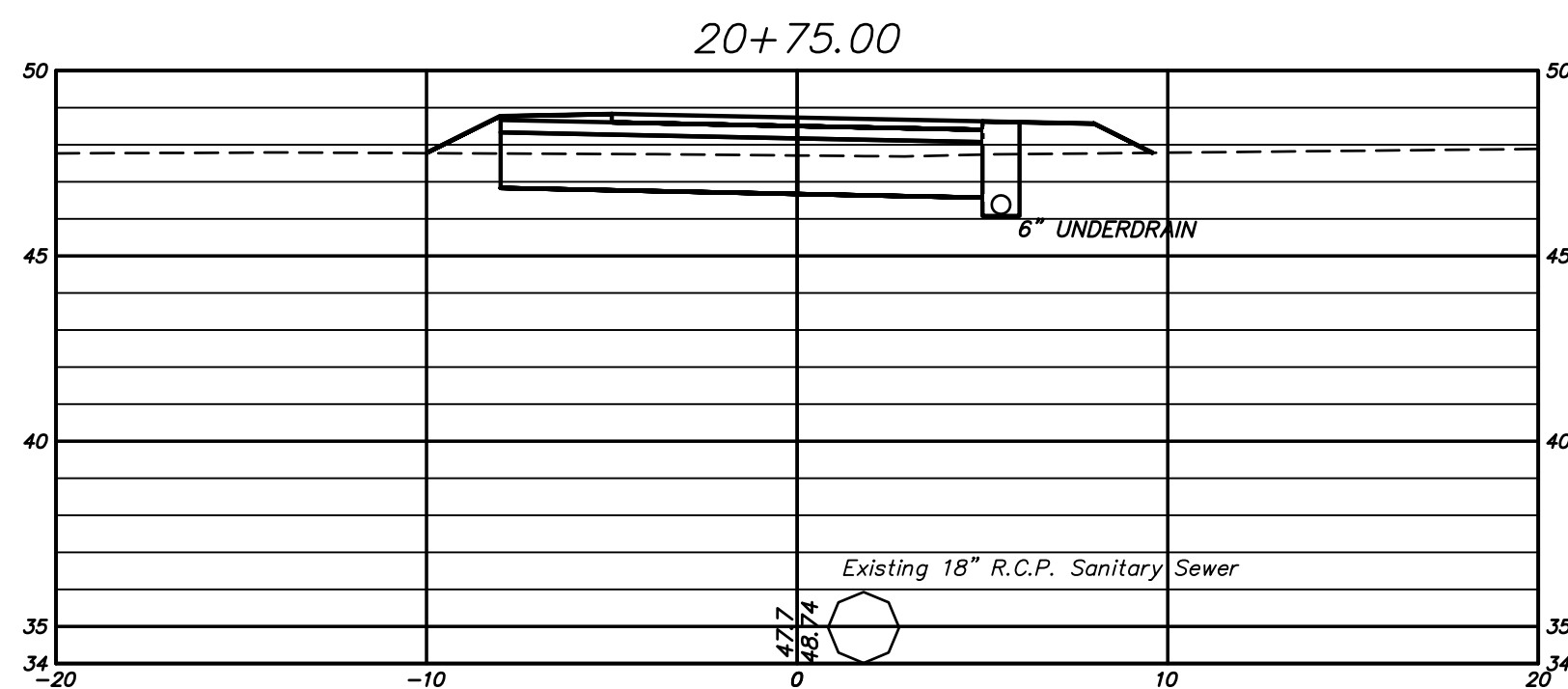
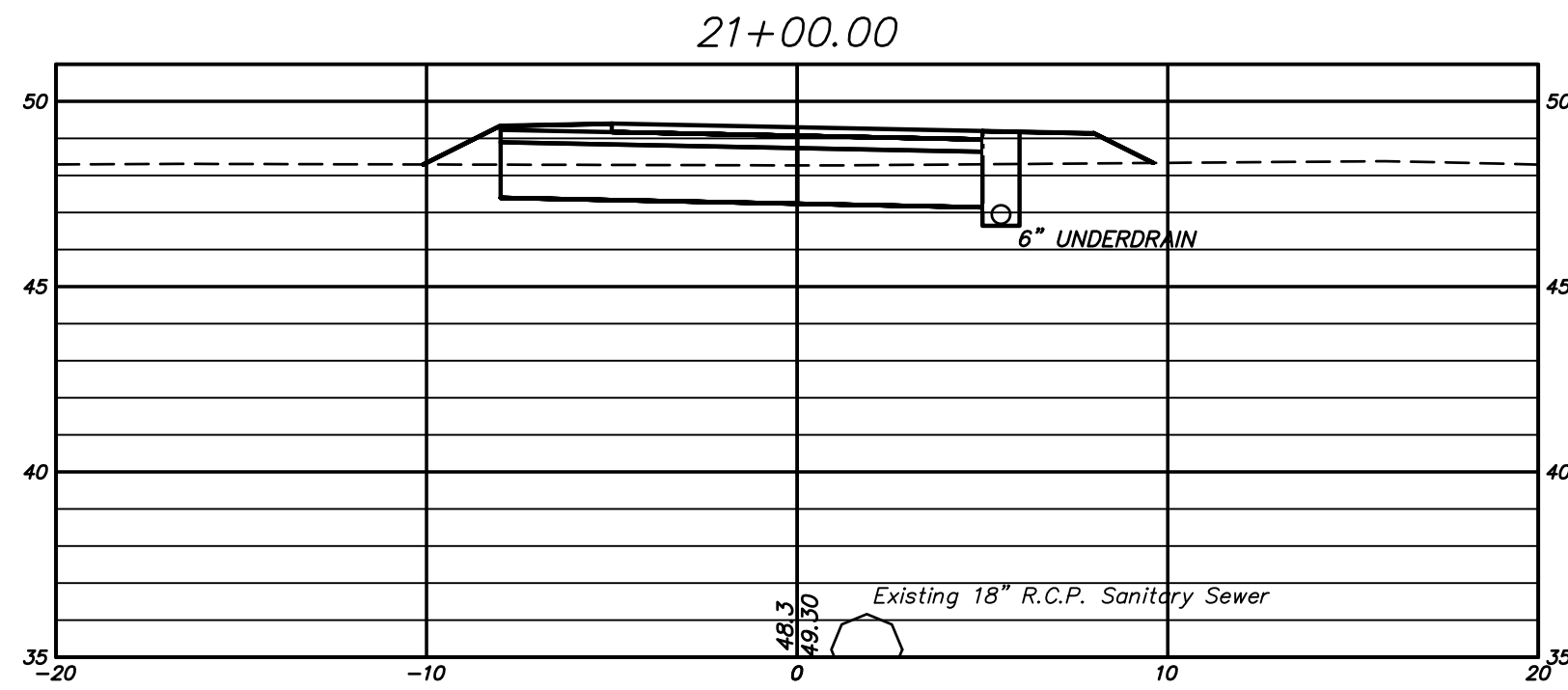
**SECTIONS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

13

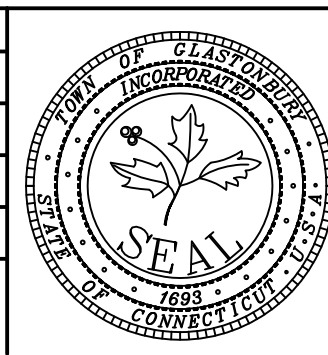
OF 24

FILE:H:\DWG\Streets\Western Blvd\PW-100 Multi Use Path\Western to House Street - Boardwalk, Alt. 3, Long USER:Steven Troy DATE:8/8/2019



SCALE:
Horizontal 1"=5'
Vertical 1"=5'

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
NO.	DESCRIPTION	DATE	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CAD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 632-7725.	



**SECTIONS DEPICTING
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

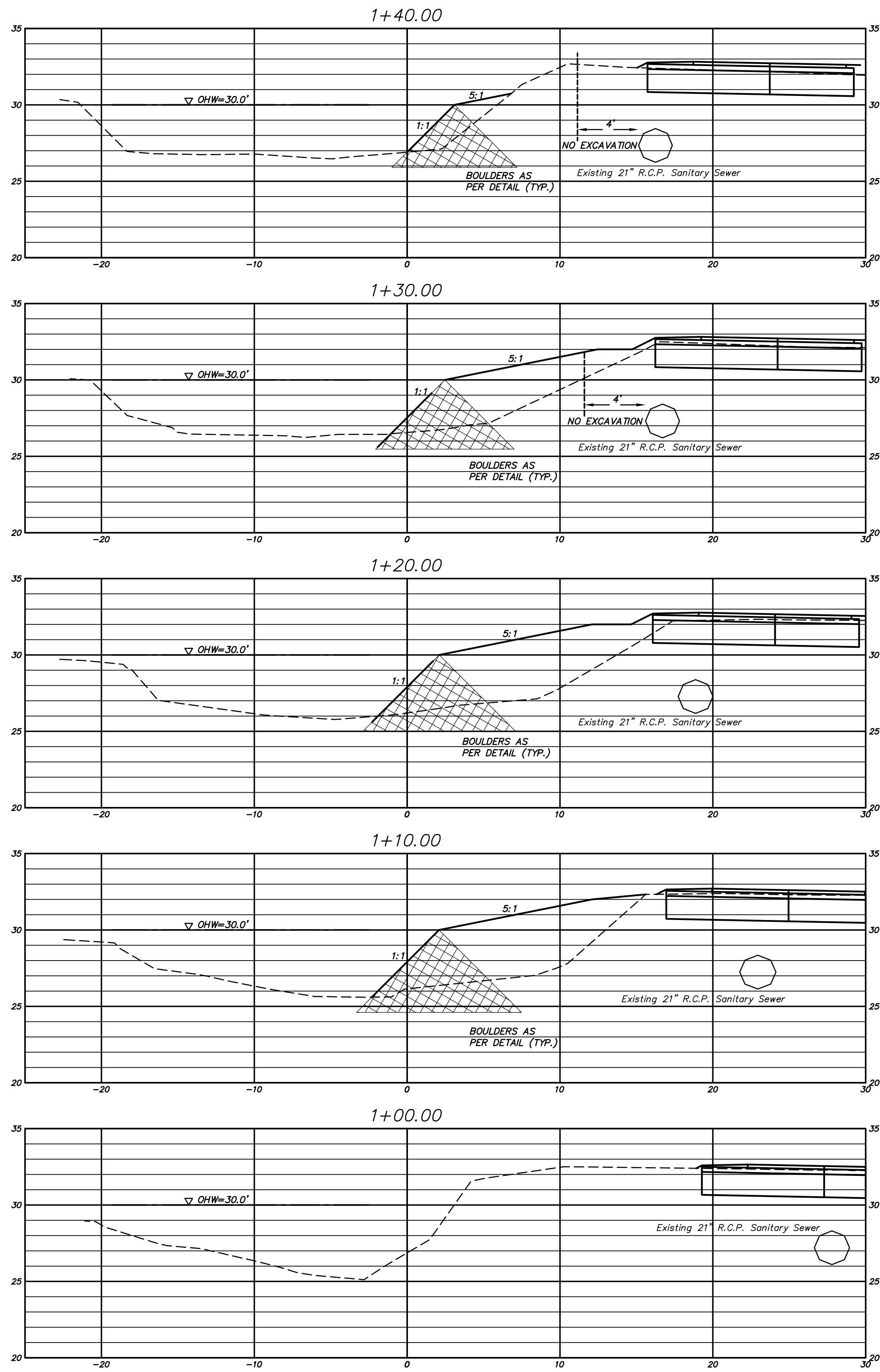
14

OF 24

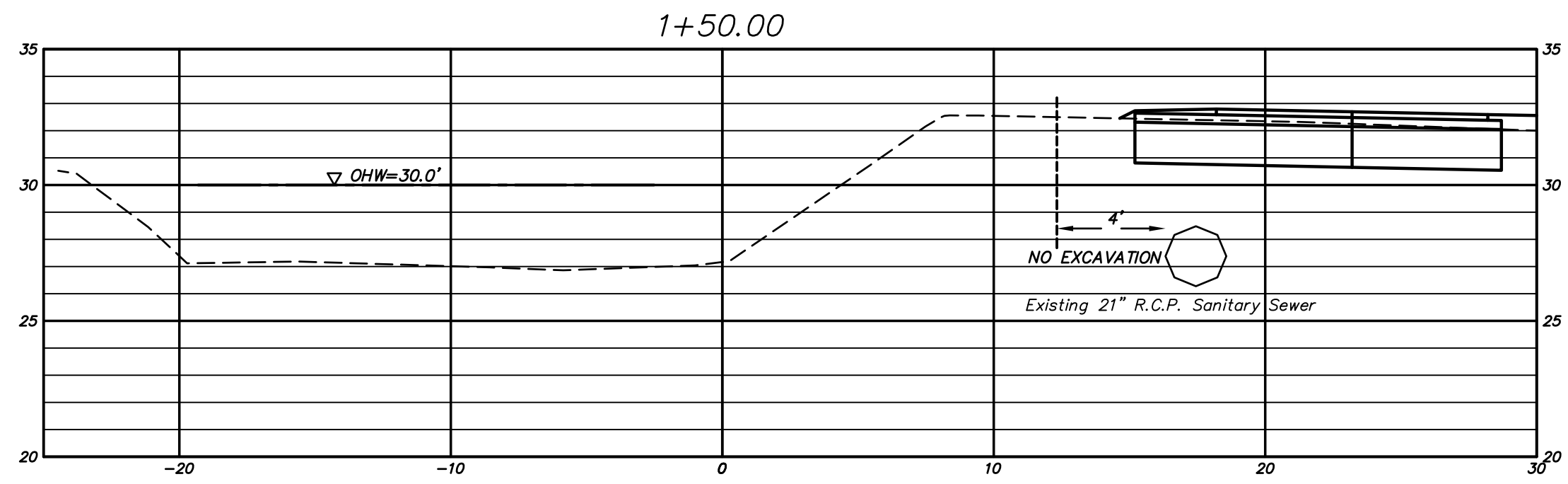
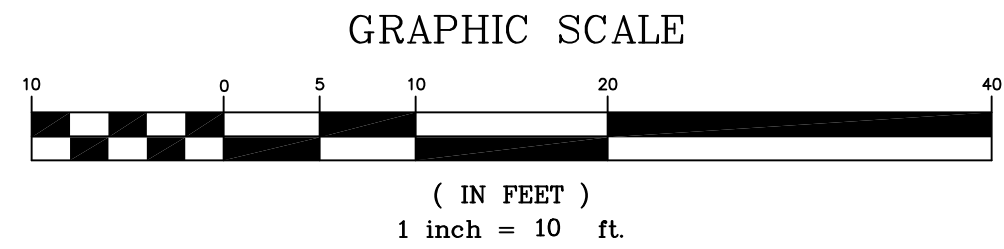
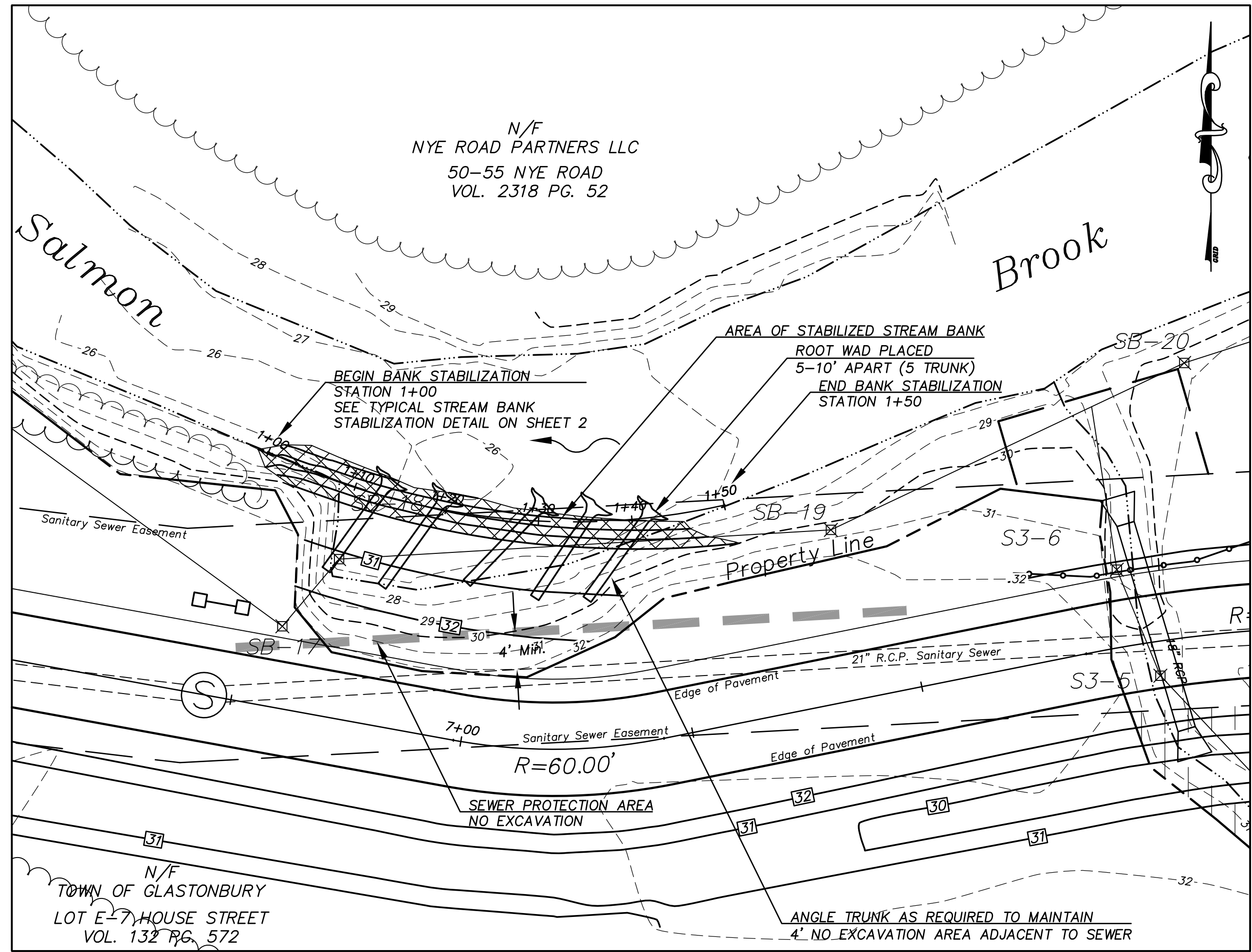
Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 201071

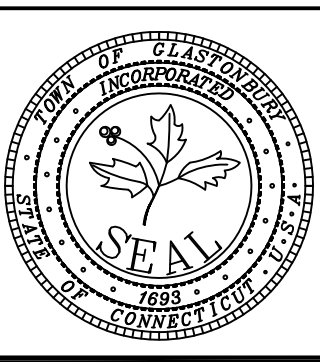
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SCALE:
Horizontal 1"=5'
Vertical 1"=5'



DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
5.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
4.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
3.	CT DEEP FISHERIES COMMENTS	10-10-2018	APPROVED BY: D.A.P.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:	
1.	ISSUED FOR PERMITTING	1-25-2017	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN ON THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES, CONTACT THE TOWN OF GLASTONBURY ENGINEERING OFFICE AT (860) 632-7725.	
NO.	DESCRIPTION	DATE		



**SITE 1
ROOT WAD STREAM BANK
STABILIZATION
AT
SALMON BROOK
GLASTONBURY, CONNECTICUT**

SHEET NO.

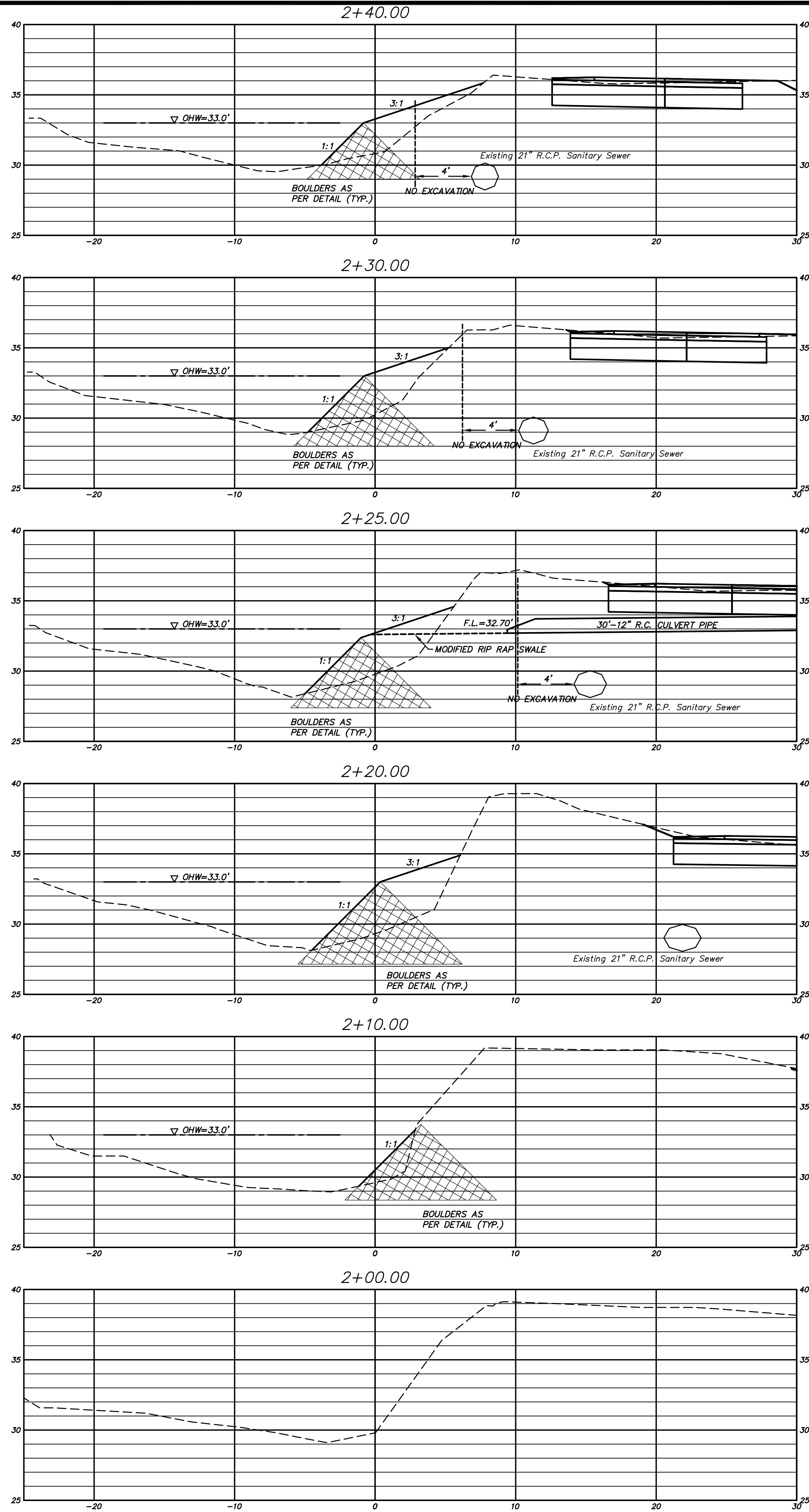
15

OF 24

Certified to be substantially correct

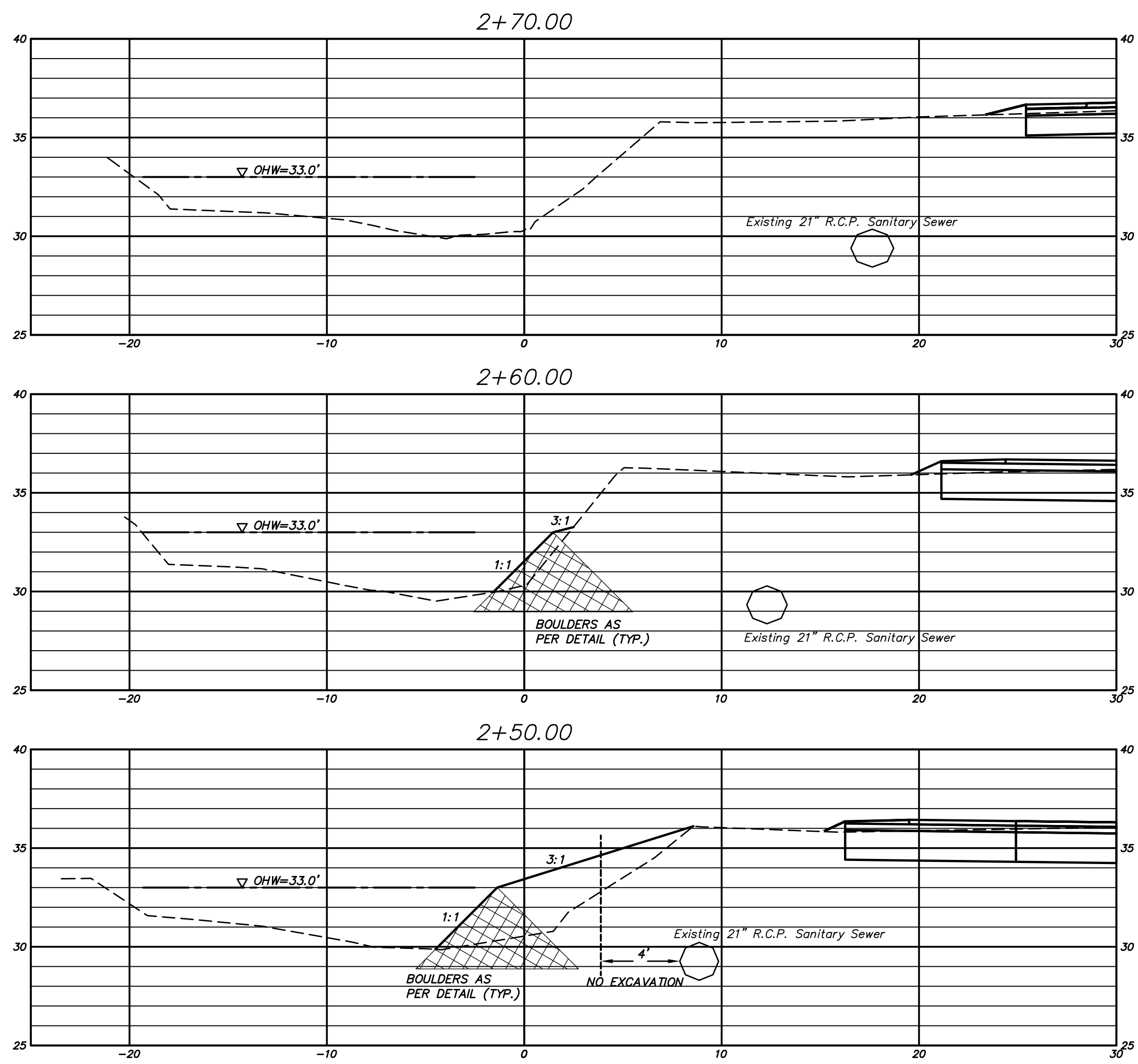
DANIEL A. PENNINGTON P.E. Reg. No. 20101

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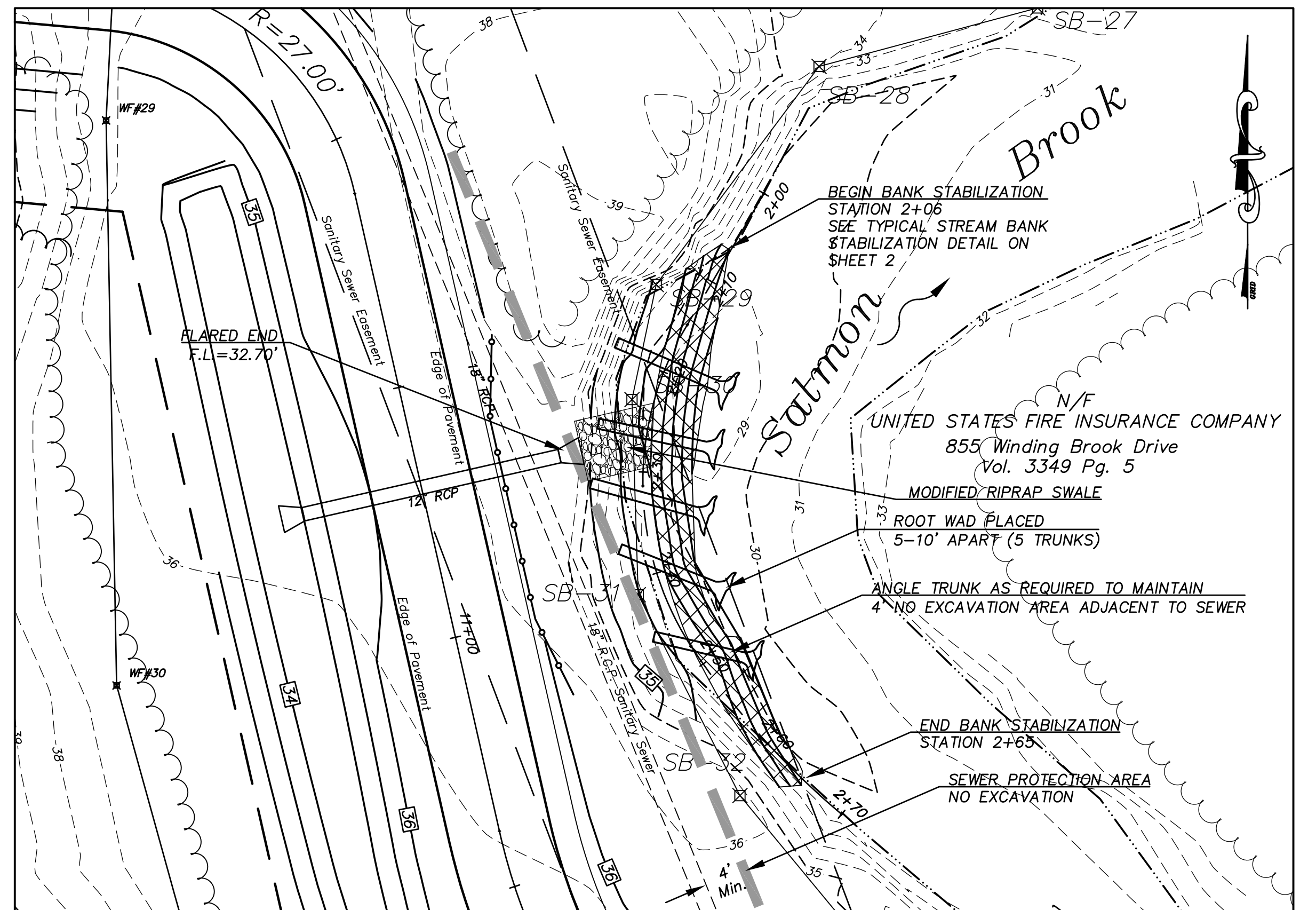
SCALE:
Horizontal 1"=5'
Vertical 1"=5'

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
5.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
4.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
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2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:	
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P.W. 1101	NO.	DESCRIPTION	DATE	

GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.



The diagram shows a site plan with several annotations:

- BEGIN BANK STABILIZATION**
- STATION 2+06**
- SEE TYPICAL STREAM BANK STABILIZATION DETAIL ON SHEET 2**
- A dashed line indicates the alignment of the **MODIFIED RIPRAP SWALE**.
- Along this alignment, there are labels for **ROOT WAD PLACED 5-10' APART (5 TRUNKS)**.
- An area labeled **N/F** (Not Filled) is shown adjacent to the swale.
- At the bottom, it states **ANGLE TRUNK AS REQUIRED TO MAINTAIN 4" NO EXCAVATION AREA ADJACENT TO SEWER**.

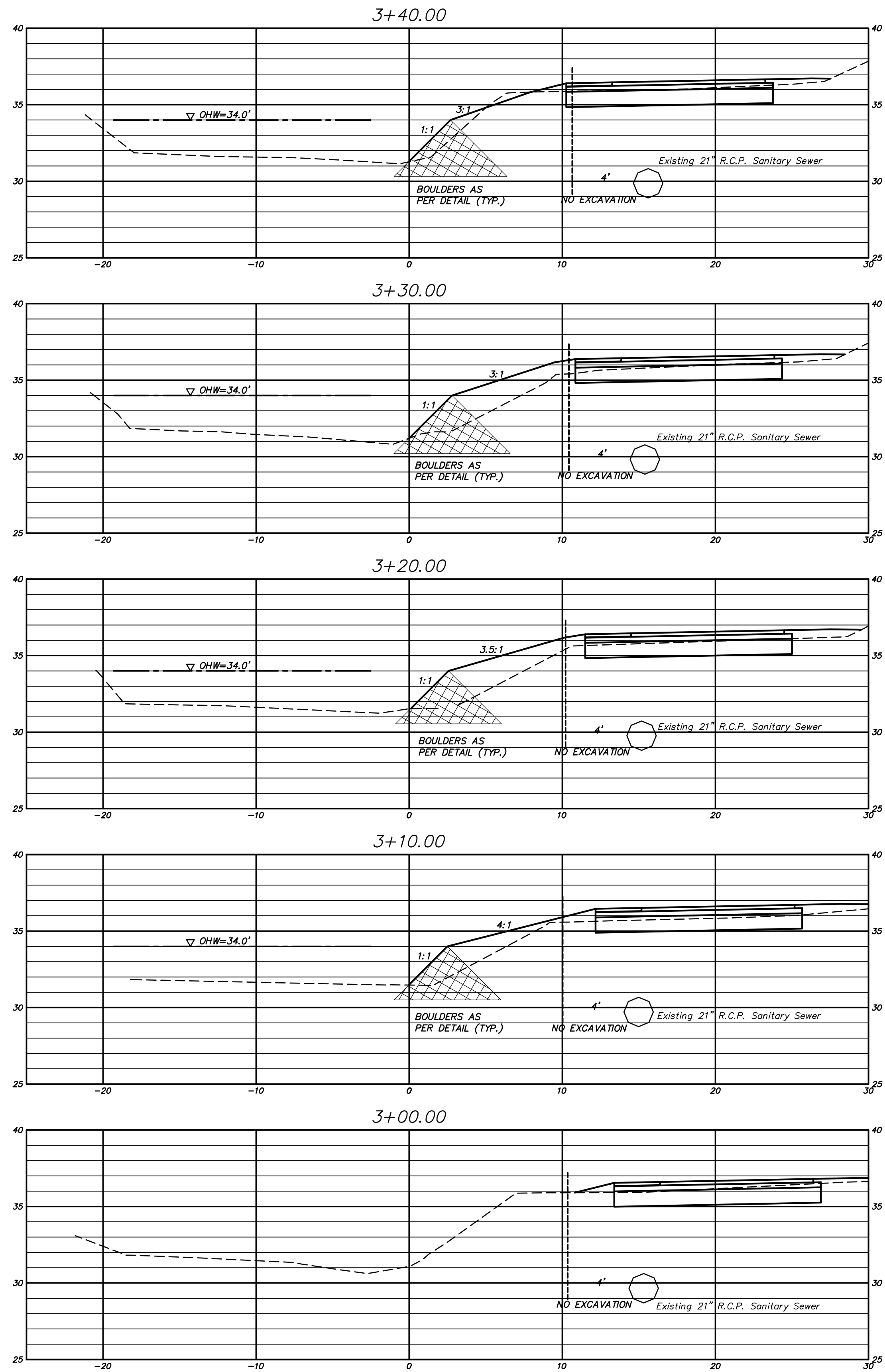
***SITE 2
ROOT WAD STREAM BANK
STABILIZATION
AT
SALMON BROOK
GLASTONBURY, CONNECTICUT***

SHEET NO. 1

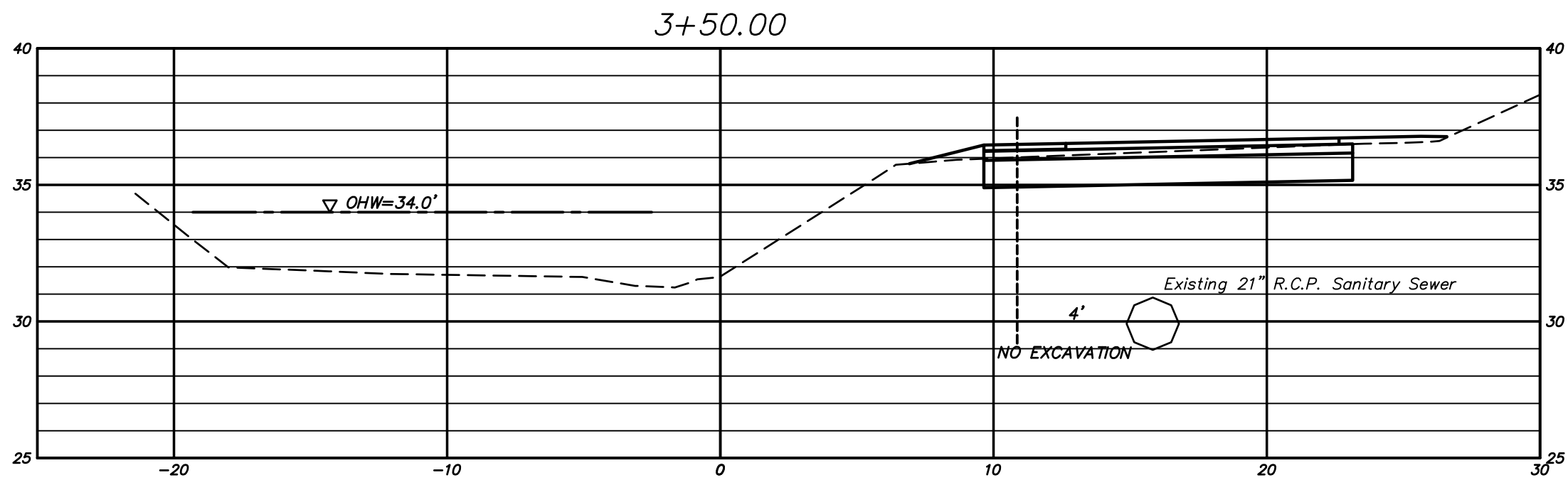
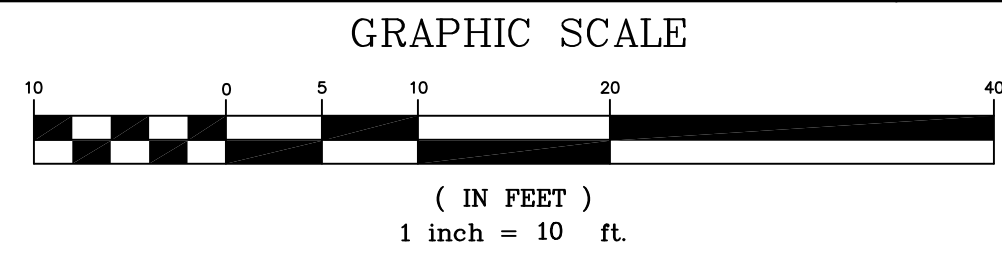
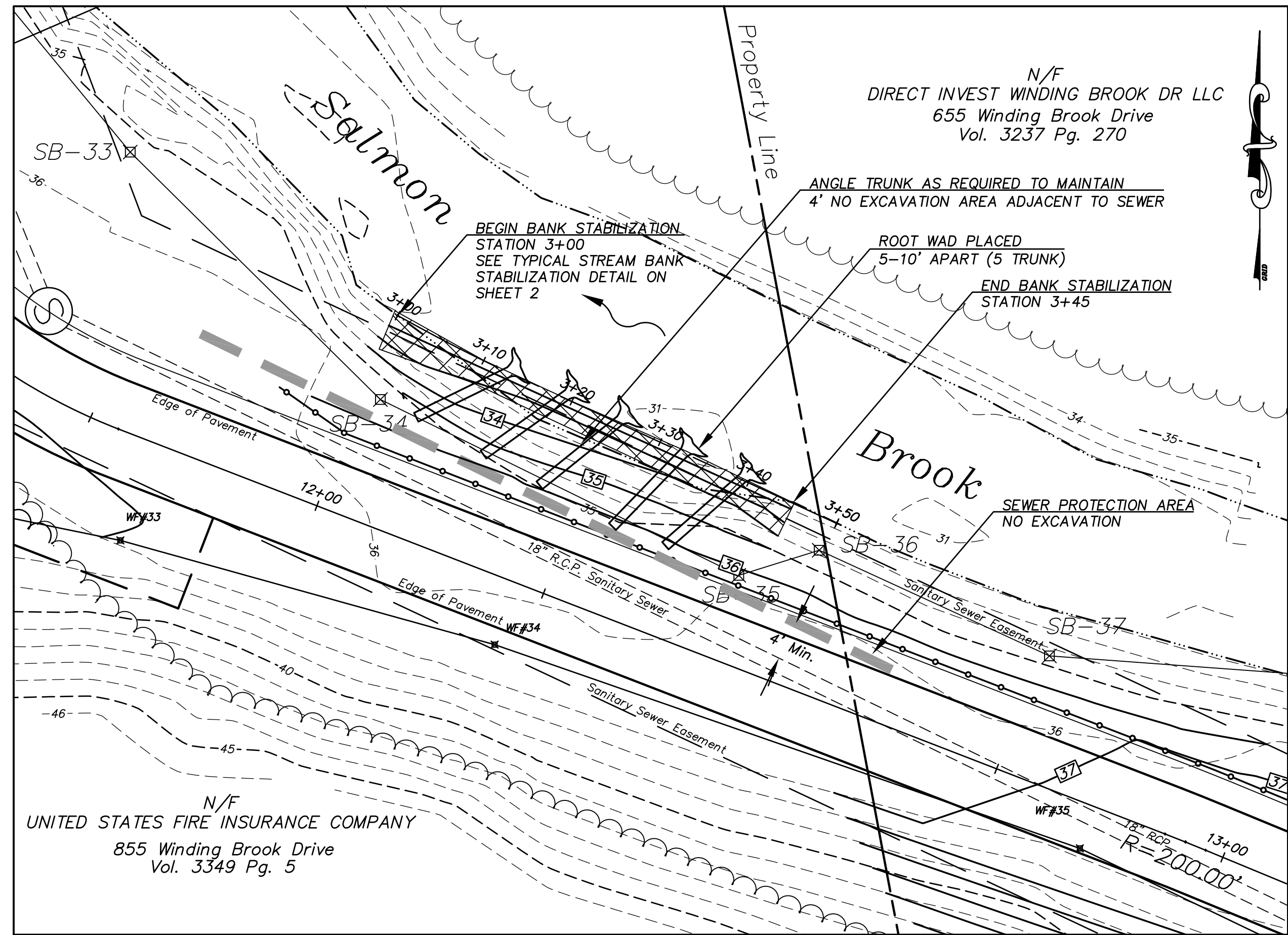
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24

FILE: H:\DWG\Streets\Western Blvd\PW-101 Multi Use Path Western to House Street - Boardwalk.dwg USER: Steven Troy DATE: 8/13/2019



SCALE:
Horizontal 1"=5'
Vertical 1"=5'

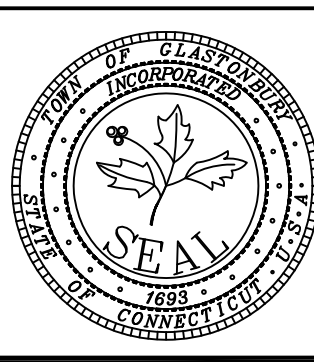


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DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
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4.	100% CONSTRUCTION SUBMISSION	3-25-2019	CHECKED BY: S.M.B.	6-20-2018
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NO.	DESCRIPTION	DATE		

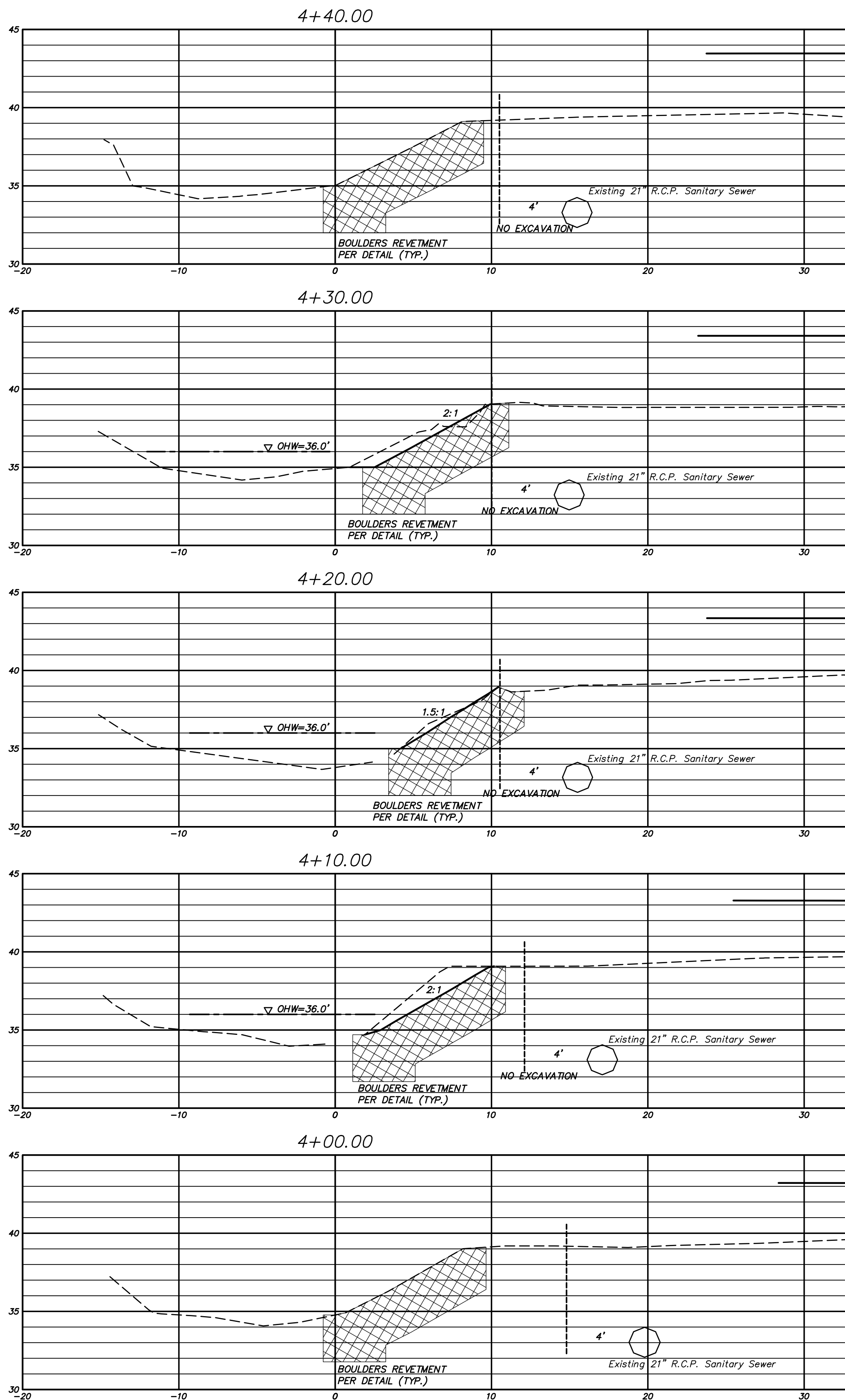


**SITE 3
ROOT WAD STREAM BANK
STABILIZATION
AT
SALMON BROOK
GLASTONBURY, CONNECTICUT**

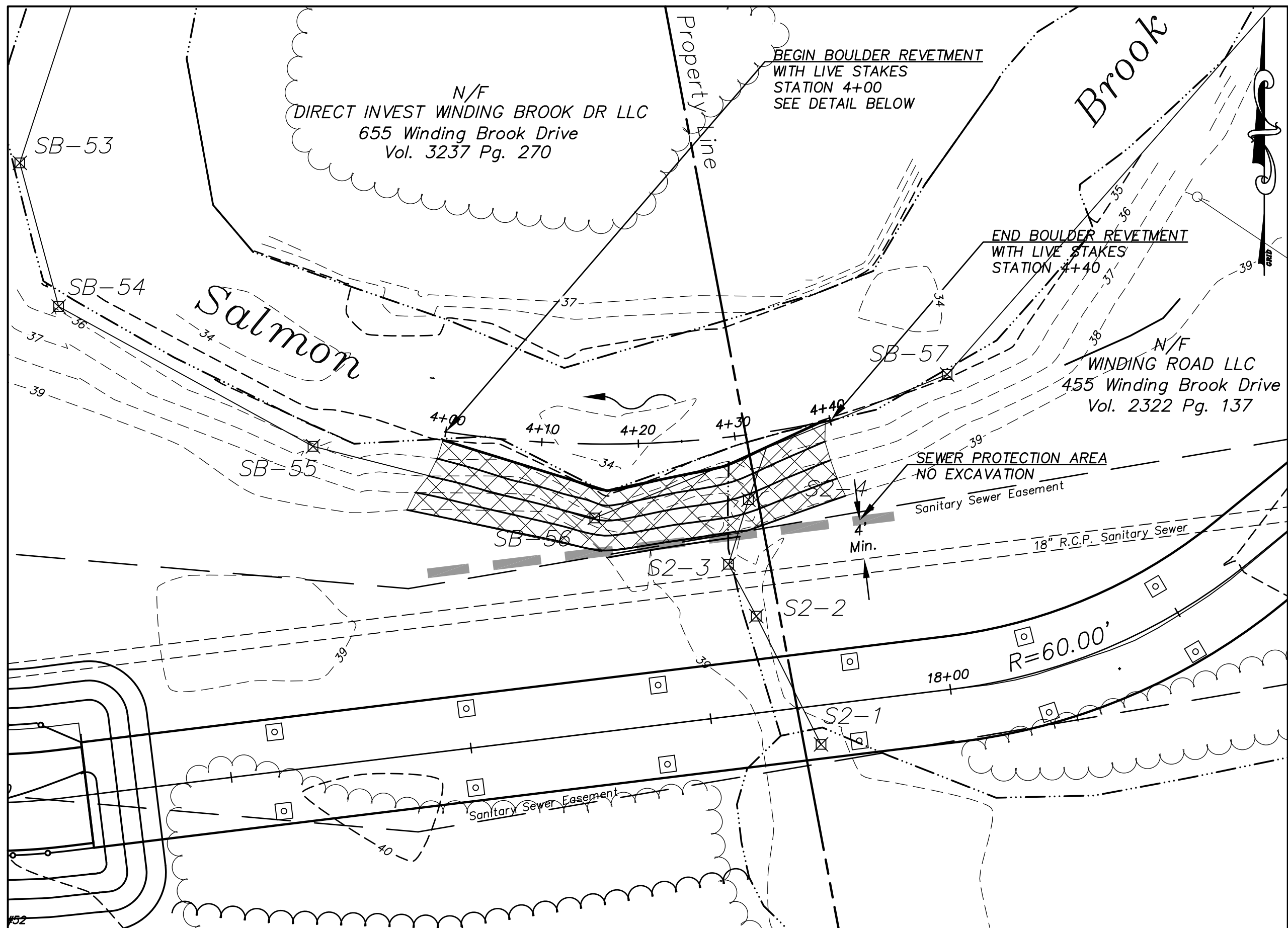
SHEET NO.

17

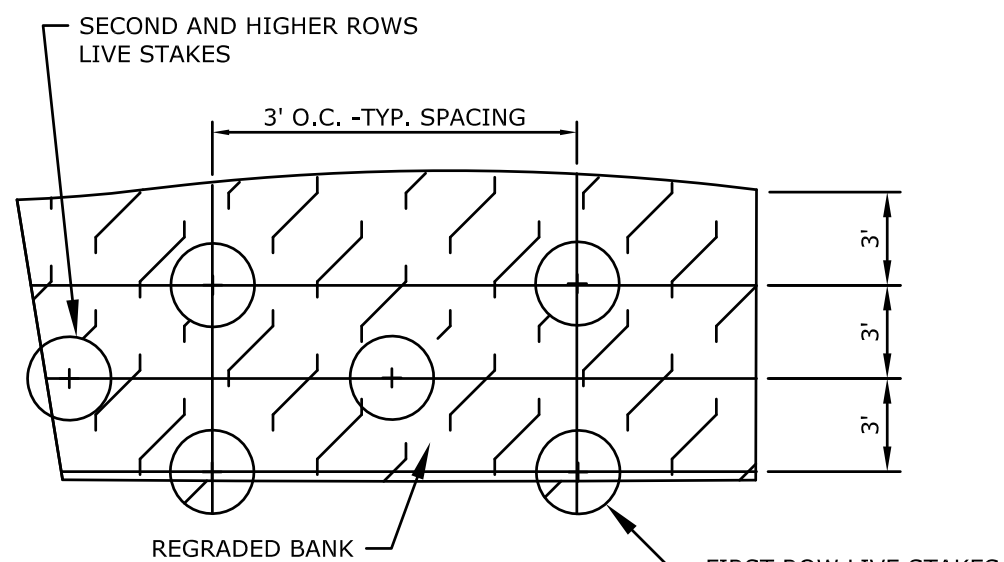
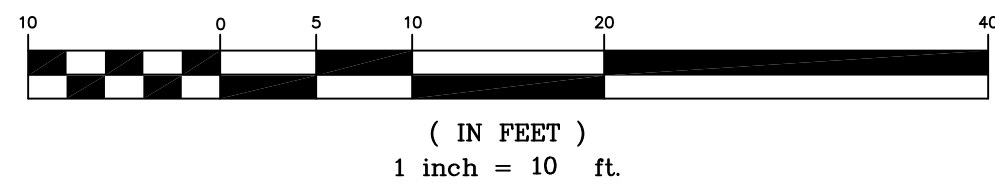
OF 24



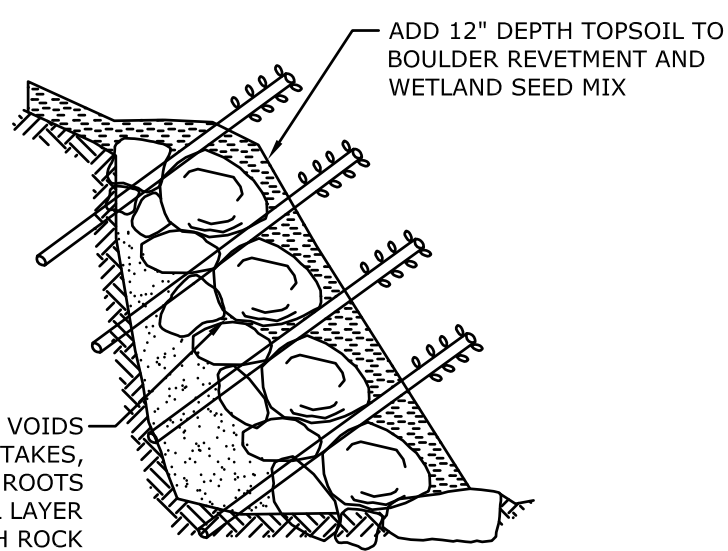
SCALE:
Horizontal 1"=5'
Vertical 1"=5'



GRAPHIC SCALE



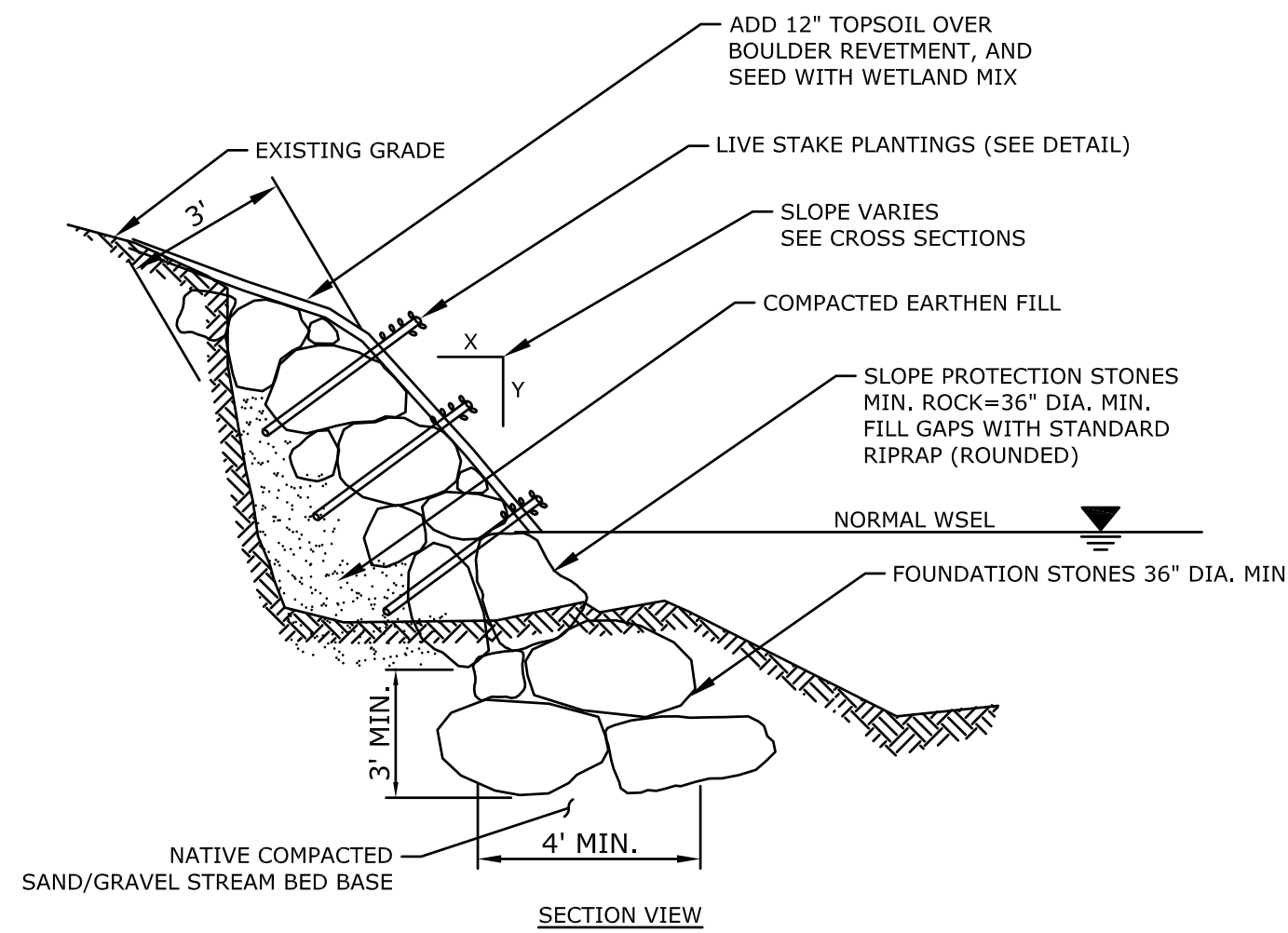
PLAN VIEW



BACKFILL SOIL INTO VOIDS
AROUND LIVE STAKES,
ENSURE LIVE STAKE ROOTS
EXTEND TO SOIL LAYER
BENEATH ROCK

PLANTING NOTES:

1. LIVE STAKE SPECIES SHALL VARY BASED UPON LOCATION, AVAILABILITY, AND TIME OF YEAR.
2. EXCAVATE BANK SUFFICIENTLY TO PLACE BOULDERS WITHOUT DECREASING CHANNEL SIZE.
3. INSTALL BOULDER REVETMENT PER PLAN, AND PLACE ONE FOOT OF TOPSOIL AS SHOWN IN DETAIL.
4. BEGIN WILLOW INSTALLATION USING THE "STINGER" OR SIMILAR METHOD TO CREATE VOIDS IN THE ROCK.
5. ALONG THE TOE OF THE SLOPE (FIRST ROW), INSTALL 4' LONG LIVE WILLOW STAKES (SALIX LUCIDA OR SIMILAR NATIVE WILLOW SPECIES AS APPROVED BY OWNER/ENGINEER) SPACED 3' ON CENTER. THESE ARE TO BE INSERTED INTO PREDRILLED PILOT HOLES SLIGHTLY LARGER THAN THE STAKE DIAMETER AND BACKFILLED. STAKES SHOULD BE INSERTED TO 36" DEPTH.
6. HIGHER ON SLOPE (ABOVE FIRST ROW), INSTALL 4' LONG LIVE STAKES SPACED 3' ON CENTER. THESE ARE TO BE INSERTED INTO PREDRILLED PILOT HOLES SLIGHTLY LARGER THAN THE STAKE DIAMETER AND BACKFILLED. STAKES SHOULD BE INSERTED TO 36" DEPTH.
7. STAKES THAT ARE SPLIT OR DAMAGED DURING INSTALLATION SHALL BE REMOVED AND REPLACED
8. LIGHTLY TAMP TOPSOIL AROUND EACH STAKE AND SATURATE WITH WATER.
9. SEED BANK WITH WETLAND SEED MIX. THE SLOPE SHOULD BE HAND RAKED TO SCARIFY THE SOIL SURFACE, THEN HAND SEEDED, HYDROMULCHED OR HAND SPREAD WITH A STRAW MULCH, AND RAKED LIGHTLY TO ENSURE SEED TO SOIL CONTACT.
10. PLANT MATERIALS SHOULD BE PLANTED THE DAY THEY ARRIVE ON SITE. PLANTS AND CUTTINGS THAT CANNOT BE PLANTED THE DAY THEY ARRIVE SHALL BE STORED ON SITE UNDER A WET TARP TO PROTECT THEM FROM WIND, DIRECT SUNLIGHT, DRYING OR OTHER DAMAGE. CUTTINGS OR UNROOTED STOCK THAT IS NOT PLANTED WITHIN TWO DAYS AFTER ARRIVAL ON THE SITE SHALL BE DISCARDED UNLESS REFRIGERATED AT 40 TO 50 DEGREES FAHRENHEIT.
11. WILLOW CUTTINGS FOR BIOENGINEERING SHOULD BE SOAKED PRIOR TO INSTALLATION.



BOULDER REVETMENT WITH LIVE STAKES

NOT TO SCALE

BOULDER SLOPE PROTECTION NOTES:

1. EMBED STONE A MINIMUM OF 3 FEET INTO THE STREAM BANK BELOW THALWEG TO KEY INTO THE BANK.
2. FINISHED ELEVATION OF THE STONES AS SHOWN ON CROSS SECTIONS AND GRADING PLAN.

LIVE STAKE PLANTINGS

DRAWING ISSUE STATUS			SCALE: AS SHOWN	DATE:
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NO.	DESCRIPTION	DATE		



**SITE 4
STREAM BANK
STABILIZATION
AT
SALMON BROOK
GLASTONBURY, CONNECTICUT**

SHEET NO.

18

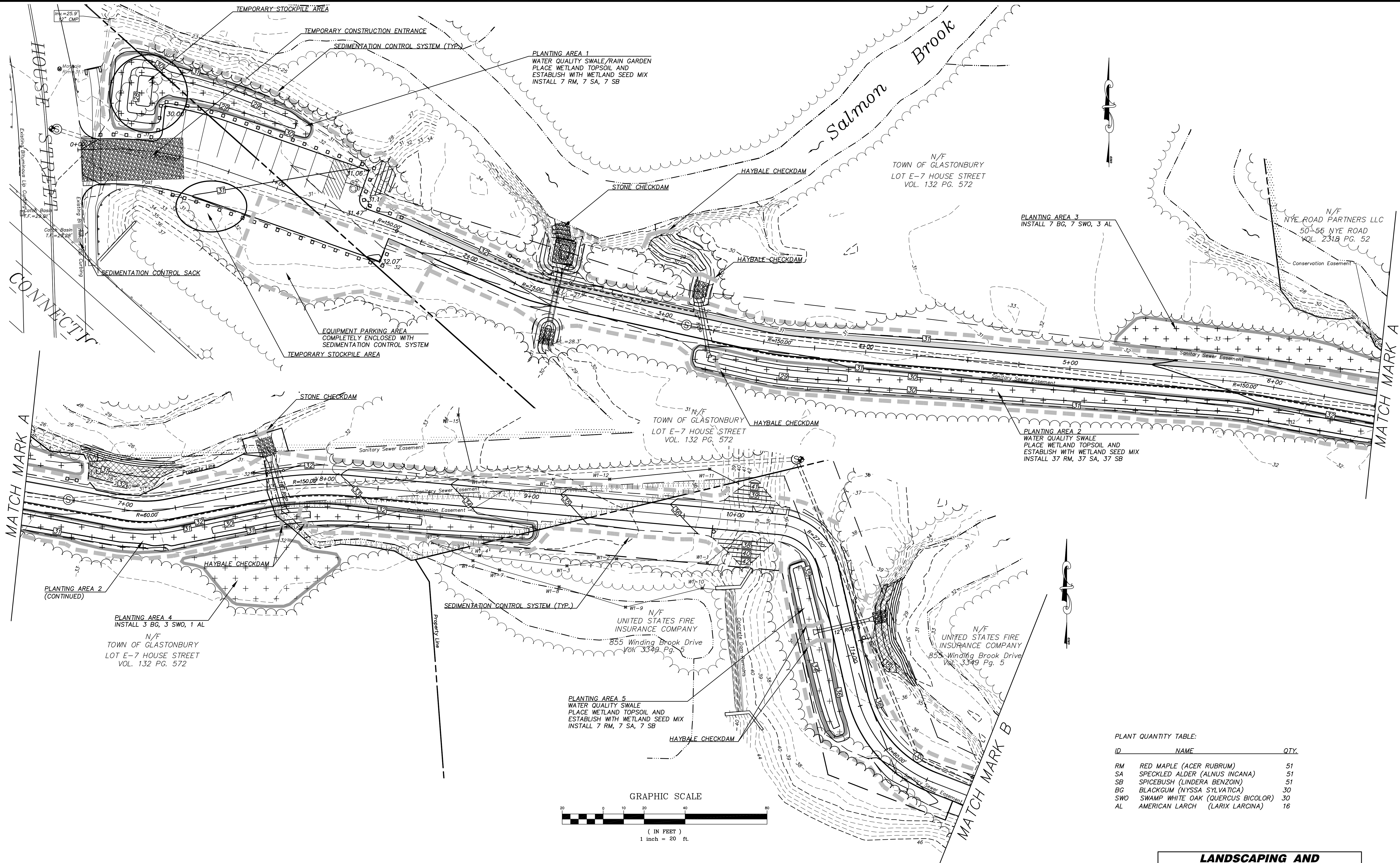
OF 24

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P.W. 1101

FILE: H:\DWG\Streets\Western Blvd\PH-101 Multi Use Path Western to House Street - Base\dwg\A1.dwg USER: Steven Troy DATE: 8/14/2019



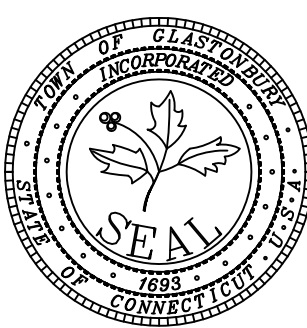
PLANT QUANTITY TABLE:

ID	NAME	QTY.
RM	RED MAPLE (ACER RUBRUM)	51
SA	SPECKLED ALDER (ALNUS INCANA)	51
SB	SPICEBUSH (LINDERA BENZOIN)	51
BG	BLACKGUM (NYSSA SYLVATICA)	30
SWO	SWAMP WHITE OAK (QUERCUS BICOLOR)	30
AL	AMERICAN LARCH (LARIX LARCINA)	16

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DANIEL A. PENNINGTON P.E. Reg. No. 20101

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3.	ADD LANDSCAPING	10-12-2018	APPROVED BY: D.A.P.	6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:	
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NO.	DESCRIPTION	DATE		



**LANDSCAPING AND
EROSION CONTROLS FOR
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

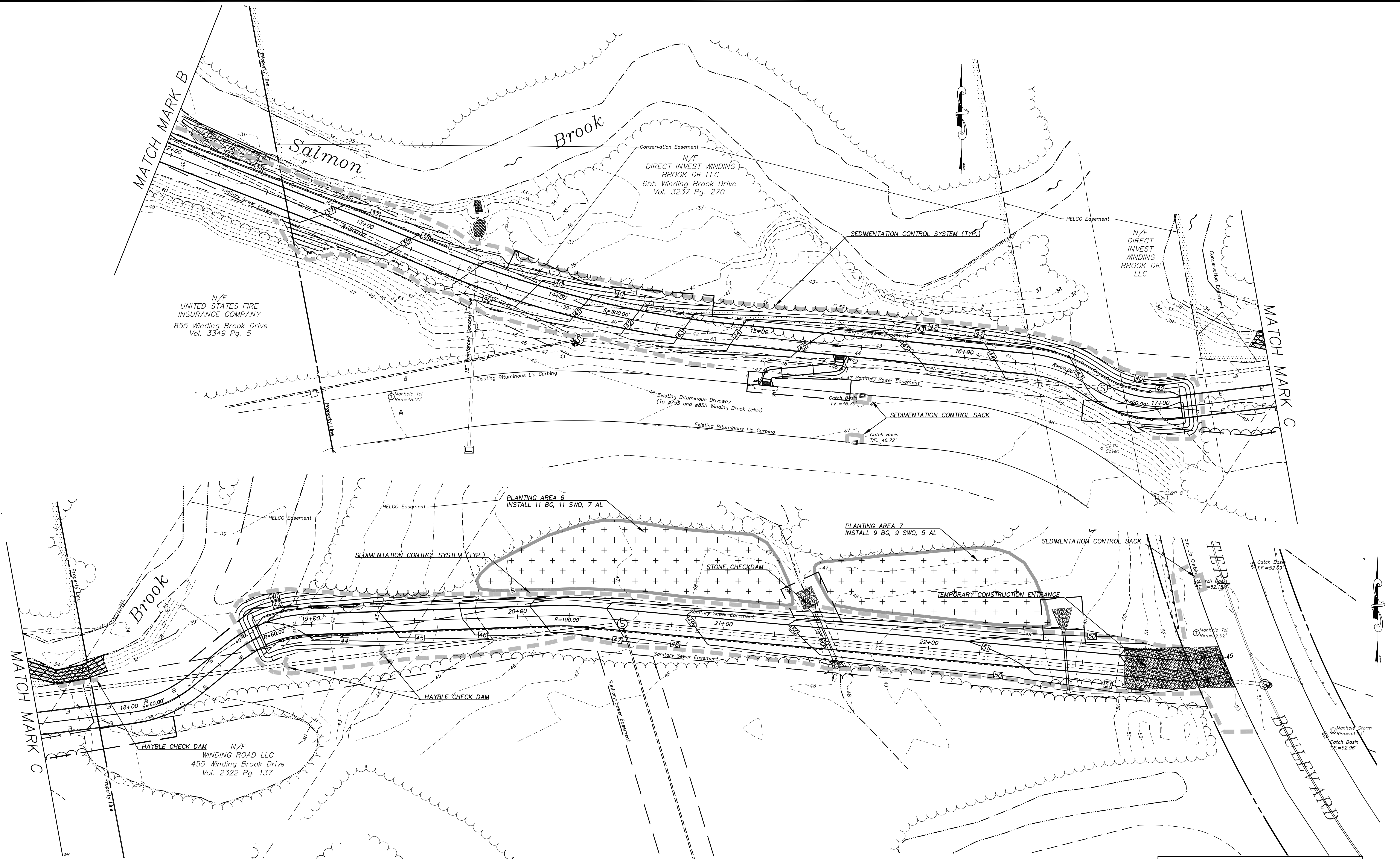
SHEET NO.

19

OF 24

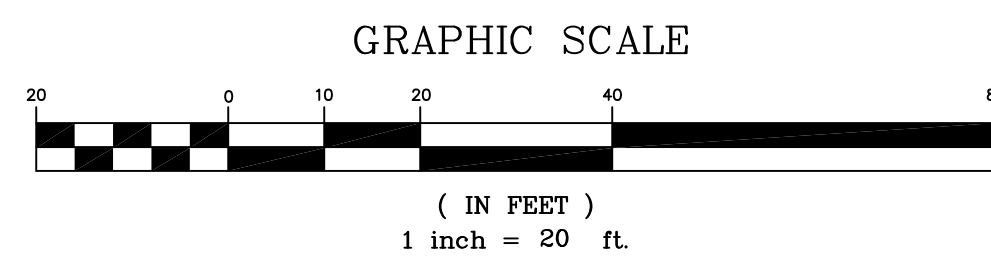
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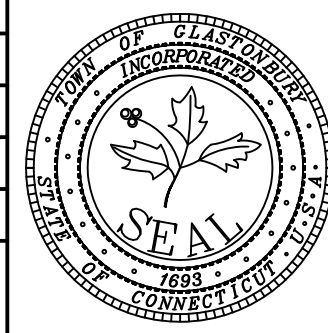
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**LANDSCAPING AND
EROSION CONTROLS FOR
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**


SHEET NO.


20

OF 24


TEST BORING LOG									
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>		Glastonbury Multi-Use Path Glastonbury, Connecticut			EXPLORATION NO.: GZ-8 SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis				
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy		Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA		Boring Location: See Plan Ground Surface Elev. (ft.): 41.1 Final Boring Depth (ft.): 7 Date Start - Finish: 8/15/2016 - 8/15/2016			H. Datum: Project V. Datum: Project		
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 2-3/4"		Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A		Groundwater Depth (ft.)					
				Date	Time	Water Depth	Stab. Time		
				8/15/16	1100	3.5'			
Sample Description and Identification (Modified Burmister Procedure)									
Depth (ft.)	Casing Core Rate	Sample No.	Depth (ft.)	Pen. (in.)	Blows (per 6 in.)	SPT Value	Field Test Data	STRATUM Description	Elev. (ft.)
1		SS-1	0-2	24	9	3 3 12 14		0.2' TOPSOIL	40.8
2		SS-2	2-4	24	5	9 10 13 17			
4		SS-3	5-6.5	18	9	28 38 100/6"			
6								5.5'	35.6
8							1	7	34.1
10									
12									
14									
16									
18									
20									
REMARKS									
1 - Boring backfilled with auger spoils on completion.									
Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.									Exploration No.: GZ-8

TEST BORING LOG									
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>		Glastonbury Multi-Use Path Glastonbury, Connecticut			EXPLORATION NO.: GZ-9 SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis				
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy		Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA			Boring Location: See Plan Ground Surface Elev. (ft.): 42.7 Final Boring Depth (ft.): 8 Date Start - Finish: 8/15/2016 - 8/15/2016			H. Datum: Project V. Datum: Project	
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 2-3/4"		Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A			Groundwater Depth (ft.)				
					Date	Time	Water Depth	Stab. Time	
							4	Note 1	
		Sample Description and Identification (Modified Burmister Procedure)					Remarks	Field Test Data	Stratum Description
Depth (ft)	Casing/Borehole Core Rate	No.	Depth (ft.)	Pen. (in)	Blows (per 6 in.)	SPT Value		Depth (ft)	Description
2	SS-1	0-2	24	16	5 8	16	1	SS-1: Top 4": Black, brown, fine SAND and SILT, trace fine Gravel (Topsoil) Bottom 9": Brown, fine to medium SAND, some fine Gravel, some Silt, trace Roots SS-2: Medium dense, brown, fine to medium SAND, some fine Gravel, trace Silt	0-6 TOPSOIL 6-24 SILTY SAND
4	SS-3	4-6	24		4 2	4		SS-3: Loose, brown, black (streaks), fine to medium SAND, some fine Gravel, some Silt, trace Roots, Wet	
6	SS-4	6-8	24		16 15	26		SS-4: Medium dense, brown, fine to medium SAND, some fine Gravel, little Silt, Wet	SAND AND GRAVEL
8								End of exploration at 8 feet below grade.	
10							2	8	34.7
12									
14									
16									
18									
20									
REMARKS									
1 - Groundwater reading based on wet spoon SS-3. 2 - Borehole backfilled with auger spoils on completion.									
Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.									Exploration No.: GZ-9

TEST BORING LOG									
 GZA GeoEnvironmental, Inc. <i>Engineers and Scientists</i>		Glastonbury Multi-Use Path Glastonbury, Connecticut			EXPLORATION NO.: GZ-10 SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis				
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy		Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA			Boring Location: See Plan Ground Surface Elev. (ft.): 39.7 Final Boring Depth (ft.): 12 Date Start - Finish: 8/15/2016 - 8/15/2016			H. Datum: Project V. Datum: Project	
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or C.O.D/I.D Dia (in.): 2-3/4"		Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A			Groundwater Depth (ft.)				
					Date	Time	Water Depth	Stab. Time	
					8/15/16	1250	Dry	10 min.	
					8/15/16	1350	1.5'	25 min.	
Sample Description and Identification (Modified Burmister Procedure)									
Depth (ft.)	Casing Core Rate	Sample				Field Test Data	STRATUM Description	Elev. (ft.)	Stab. Time
		No.	Depth (ft.)	Pen. Rec. (in)	Blows (per 6 in.)				
1		SS-1	0-2	24	11	4 15	30	SS-1: Top 6": Topsoil, black, brown SILT and fine SAND, little fine Gravel, Roots Bottom 3": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt SS-2: Loose, brown, fine to medium SAND, trace Silt, Wet	0.7 ----- 39.0
2		SS-2	2-4	24	3	7 3	6	SS-2: Loose, brown, fine to medium SAND, trace Silt, Wet	2 ----- 37.7
4		SS-3	5-7	24	6	1 2	8	SS-3: Loose, brown, fine to coarse GRAVEL, some fine to medium SAND, trace Silt, Wet	5 ----- 34.7
6		SS-4	7-9	24	10	11 13	35	SS-4: Top 3": Olive-brown SILT Bottom 7": Brown, black, fine to coarse SAND and fine to coarse GRAVEL, trace Silt	12 ----- 27.7
8		SS-5	10-11.5	18	0	9 18	100/6"	SS-5: No Recovery	
10								End of exploration at 12 feet below grade.	
12									
14									
16									
18									
20									
REMARKS									
1 - Material may have been soil that washed to bottom of hole (SS-2). 2 - Auger refusal at 12'. Boring offset 3'. 3 - Boring backfilled with auger spoils on completion.									
Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.									Exploration No.: GZ-10

TEST BORING LOG									
 GZA GeoEnvironmental, Inc. Engineers and Scientists		Glastonbury Multi-Use Path Glastonbury, Connecticut			EXPLORATION NO.: GZ-10A SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis				
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy		Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA			Boring Location: See Plan Ground Surface Elev. (ft.): 39.7 Final Boring Depth (ft.): 17 Date Start - Finish: 8/15/2016 - 8/15/2016			H. Datum: Project V. Datum: Project	
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 2-3/4"		Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A			Groundwater Depth (ft.)				
					Date	Time	Water Depth	Stab. Time	
Sample Description and Identification (Modified Burmister Procedure)									
Depth (ft.)	Casing Bore Core Rate	Sample No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Remarks	Field Test Data
0			0-0						
2									
4									
6									
8									
10									
12									
14									
16		SS-1	15-17	24	24	10 20 25 47	45	SS-1: Dense, brown, fine to medium SAND, some fine to coarse Gravel, trace Silt, Wet	2
18								End of exploration at 17 feet below grade.	
20									
REMARKS									
1 - 3' offset from GZ-10. 2 - Augered to 15', then sampled 3 - Boring backfilled with auger spoils on completion.									
Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.									Exploration No.: GZ-10A

TEST BORING LOG									
<div>GZA GeoEnvironmental, Inc. Engineers and Scientists</div>				Glastonbury Multi-Use Path Glastonbury, Connecticut		EXPLORATION NO.: GZ-11 SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis			
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy				Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA		Boring Location: See Plan Ground Surface Elev. (ft.): 41.9 Final Boring Depth (ft.): 15.2 Date Start - Finish: 8/15/2016 - 8/15/2016		H. Datum: Project V. Datum: Project	
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 2-3/4"				Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A		Groundwater Depth (ft.)			
						Date	Time	Water Depth	Stab. Time
						8/15/16	1100	3.5'	0 min.
Sample Description and Identification (Modified Burmister Procedure)									
Depth (ft)	Casing Blows/ Core Rate	Sample No.	Depth (ft.)	Pen. (in)	Blows (per 6 in.)	SPT Value	Field Test Data	STRATUM Description	Elev. (ft.)
1		SS-1	0-2	24	16	2 7	14	SS-1: Top 3": Black, brown SAND and SILT, trace Roots Middle 9": Brown, fine SAND, some Silt, little fine Gravel, trace Roots Bottom 4": Brown, fine to coarse SAND, some fine to coarse Gravel, little Silt SS-2: Top 5": Brown, fine to coarse SAND, little fine Gravel, little Silt Bottom 5": Brown, light brown Silty Clay, Wet	41.4
2		SS-2	2-4	24	10	7 10	18	SS-2: Top 5": Brown, fine to coarse SAND, little fine Gravel, little Silt Bottom 5": Brown, light brown Silty Clay, Wet	39.9
4		SS-3	5-7	24	20	4 5	10	SS-3: Silty, brown SILT	34.9
6		SS-4	7-9	24	11	7 8	16	SS-4: Medium dense, brown, fine to medium SAND and fine to coarse GRAVEL, some Silt	41.3
8								End of exploration at 7 feet below grade.	
10		SS-5	10-12	24	3	11 13	25	SS-5: Medium dense, brown, fine to medium SAND and fine to coarse GRAVEL, some Silt	
12									
14									
16		SS-6	15- 15.2	2	0	100/2"		SS-6: No Recovery	26.7
18								End of exploration at 15.2 feet below grade.	
20									
REMARKS									
1 - Groundwater measurement based on wet spoon SS-2. 2 - Boring backfilled with auger spoils on completion.									
Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.									Exploration No.: GZ-11

TEST BORING LOG									
 GZA GeoEnvironmental, Inc. Engineers and Scientists				Glastonbury Multi-Use Path Glastonbury, Connecticut			EXPLORATION NO.: GZ-12 SHEET: 1 of 1 PROJECT NO: 05.0045864.00 REVIEWED BY: J. Davis		
Logged By: D. Ramsey Drilling Co.: New England Boring Contractor Foreman: M. Soucy				Type of Rig: Track Mounted Rig Model: D-50 Drilling Method: HSA		Boring Location: See Plan Ground Surface Elev. (ft.): 48.3 Final Boring Depth (ft.): 7 Date Start - Finish: 8/15/2016 - 8/15/2016		H. Datum: Project V. Datum: Project	
Hammer Type: Cat Head/Safety Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 2-3/4"				Sampler Type: Split Spoon Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Core Barrel Size: N/A		Groundwater Depth (ft.)			
						Date	Time	Water Depth	Stab. Time
						8/15/16	1015	4.5	15 min.
Sample Description and Identification (Modified Burmister Procedure)									
Depth (ft)	Casing/Borehole No.	Sample No.	Depth (ft.)	Pen. (in)	Rec. (in)	Bloves (per 6 in.)	SPT Value	Remarks	Field Test Data
0		SS-1	0-2	24	16	1 5	14	SS-1: Top 4": Black, fine SAND and SILT, trace Roots (Topsoil)	23
2		SS-2	2-4	24	10	14 32 21 21	53	Bottom 12": Brown, fine to medium SAND, some fine to coarse Gravel, some Sil	SILTY SAND
4								SS-2: Top 5": Brown, fine to medium SAND and fine to coarse GRAVEL, some Sil	26
6		SS-3	5-7	24	10	4 8 10 10	18	Bottom 5": Brown SILT and CLAY, little fine sand, trace fine Gravel	4
8								SS-3: Top 4": Brown, fine to medium SAND, some Sil	SILTY SAND
10								Bottom 6": Brown SILT and CLAY	6
12									7
14								End of exploration at 7 feet below grade.	1
16									
18									
20									
1 - Boring backfilled with auger spoils on completion.									
REMARKS									
Stratification lines represent approximate boundary boundaries between soil and bedrock types. Actual transitions may be gradual.									
Exploration No.: GZ-12									

FILE:H:\DWG\Streets\Western Blvd\PW-100 Multi Use Path Western to House Street - Boardwalk, Alt. 3.dwg USER: Steven Troy DATE: 8/8/2019

GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD

GENERAL NOTES

- This structure has been designed in accordance with the project architect plan layout and guidelines. Suitability for access and intended usage shall be the responsibility of the architect.
- Vehicle access larger than the design live load shall be limited by permanent physical means.
- Prior to construction the contractor shall verify all elevations through the project architect.
- Only PermaTrak North America may provide the precast structure shown on these plans.

DESIGN DATA

- Boardwalk shall be designed in accordance with the AASHTO LRFD bridge design specifications and the LRFD guide specification for the design of pedestrian bridges.

Design Live Load:
Pedestrian Loading - 90 psf Uniform
Vehicle Loading - H-5 Design Truck (10,000 Lb. Vehicle)

- Abutments and piers shall be designed for lateral earth pressure, live load surcharge and structure loads. (Contractor To Verify)
- Railing shall be designed in accordance with AASHTO specifications. The railing supplier is responsible for the engineering of the detailed railing in accordance with the project specifications.

- All geotechnical recommendations contained in the report of subsurface investigation shall be followed. Report "Geotechnical Engineering Report: Multi-Use Path Glastonbury, Connecticut" was dated April 17, 2018 and produced by GEA Geotechnical, Inc.


MATERIALS


- All bolts, nuts, washers, and hardware shall be hot dipped galvanized after fabrication in accordance with ASTM A153.
- Cash-in-place concrete shall have a 28-day concrete compressive strength of 4000 psi.
- All foundation reinforcing shall be Grade 60 conforming to ASTM A615.


PROJECT COMPONENTS


SUPPLIED BY PERMATRAK
PRECAST CONCRETE TREADS
PRECAST CONCRETE ABUTMENTS
PRECAST CONCRETE BEAMS
RUBBER LEVELING PADS
CLIP ANGLES WITH 3/4" DIAMETER RODS, WASHERS AND NUTS(6x3x3/8x4")
4X4 TIMBER POST BRACKET AND CONNECTION HARDWARE

SUPPLIED BY CONTRACTOR
MULTI-USE EPOXY ADHESIVE OR EQUAL (ANCHORING SYSTEM CONNECTION)
3/4" DIAMETER x 1'-5" LONG THREADED BARS WITH NUTS AND WASHERS (BEAM TO PIER/ABUTMENT CONNECTION)
SHIM AND NON-SHRINK GROUT (LEVELING FOR BEAM TO CAP PLATE)
RAILING AND CONNECTION HARDWARE
10" DIAMETER STEEL PIPE PILE CAP PLATE AND CONNECTION (TBD)
UNREINFORCED CONCRETE (2000 PSI MINIMUM COMPRESSIVE STRENGTH)

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NO.		NO.	DATE	DESCRIPTION	BY:	PREPARED FOR: TOWN OF GLASTONBURY, CT		OFFICE LOCATIONS: FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO	PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT	PATENTED PRODUCT: U.S. Patent #5,908,084 #5,903,362 #5,922,505 #5,939,589 #5,096,973	JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: BMD DRAWN BY: BMD CHECKED BY: BMD SHEET NO. PT01

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NO.		NO.	DATE	DESCRIPTION	BY:	PREPARED FOR: TOWN OF GLASTONBURY, CT		OFFICE LOCATIONS: FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO	PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT	PATENTED PRODUCT: U.S. Patent #5,908,084 #5,903,362 #5,922,505 #5,939,589 #5,096,973	JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: BMD DRAWN BY: BMD CHECKED BY: BMD SHEET NO. PT02

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NO.		NO.	DATE	DESCRIPTION	BY:	PREPARED FOR: TOWN OF GLASTONBURY, CT		OFFICE LOCATIONS: FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO	PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT	PATENTED PRODUCT: U.S. Patent #5,908,084 #5,903,362 #5,922,505 #5,939,589 #5,096,973	JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: BMD DRAWN BY: BMD CHECKED BY: BMD SHEET NO. PT02

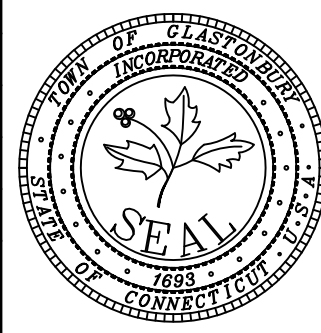
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NO.		NO.	DATE	DESCRIPTION	BY:	PREPARED FOR: TOWN OF GLASTONBURY, CT		OFFICE LOCATIONS: FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO	PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT	PATENTED PRODUCT: U.S. Patent #5,908,084 #5,903,362 #5,922,505 #5,939,589 #5,096,973	JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: BMD DRAWN BY: BMD CHECKED BY: BMD SHEET NO. PT04

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

P.W. 1101

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
4.	ISSUED FOR CONSTRUCTION	8-8-2019	CHECKED BY: S.M.B. 6-20-2018
3.	100% CONSTRUCTION SUBMISSION	3-25-2019	APPROVED BY: D.A.P. 6-20-2018
2.	REVISED FOR PERMITTING	6-19-2018	ST. FILE:
1.	ISSUED FOR PERMITTING	1-25-2017	MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CAD FILE, SHOWN ON THE LEFT. ANY OTHER REVISIONS ARE AT DISCREETION OF THE ENGINEERING OFFICE AT (860) 632-7235.
NO.	DESCRIPTION	DATE	

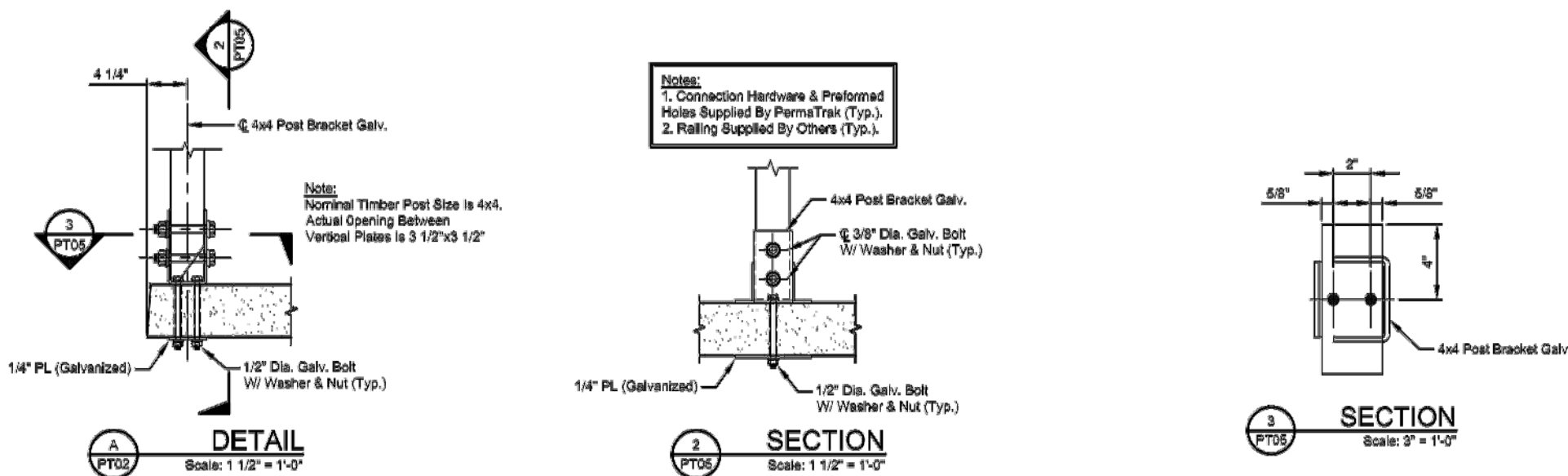



**BOARDWALK CONCEPT PLANS
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

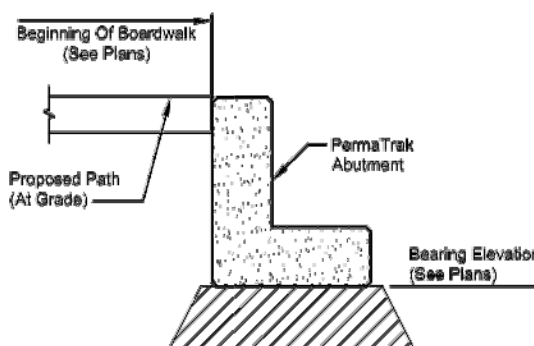
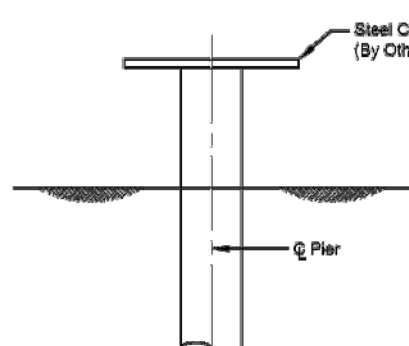
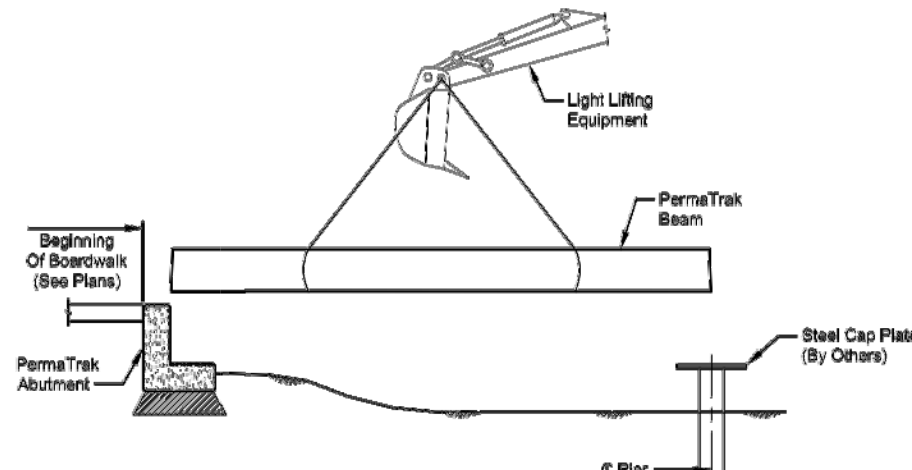
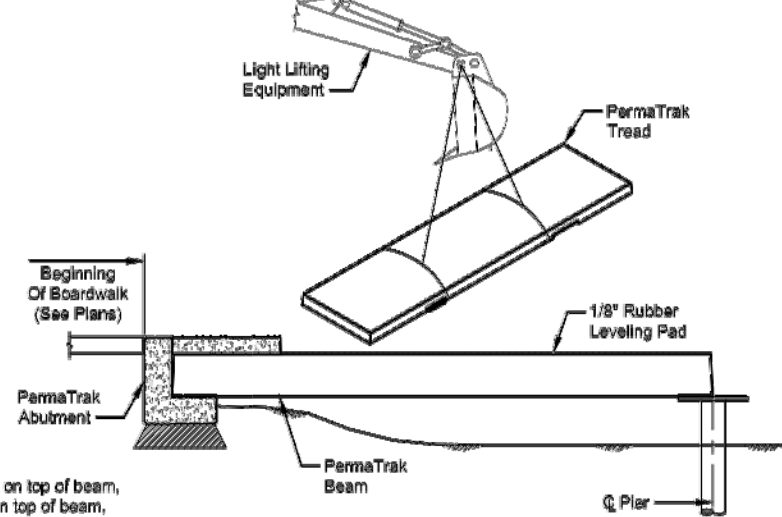
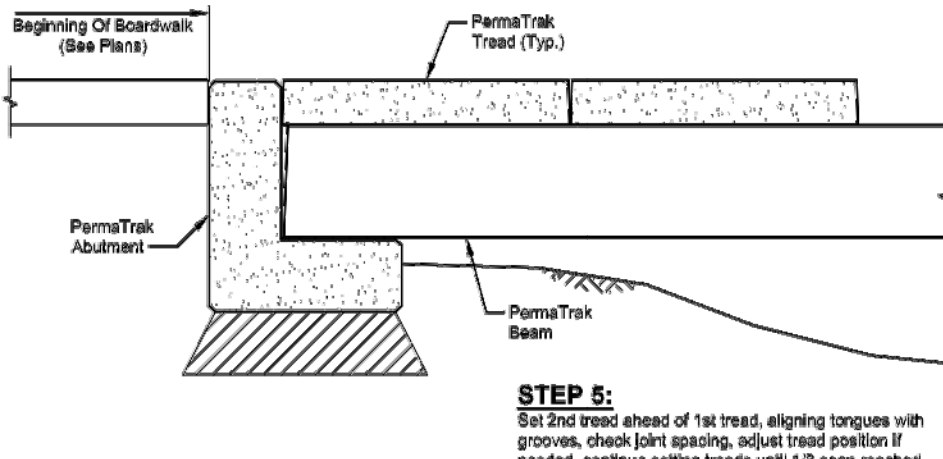
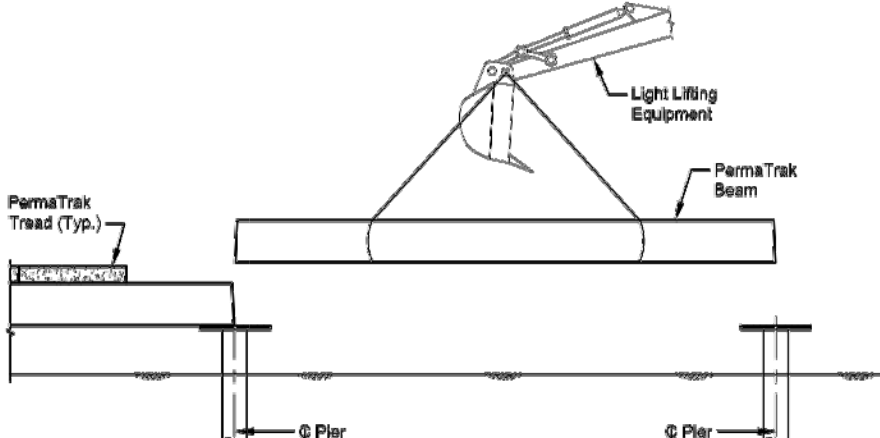
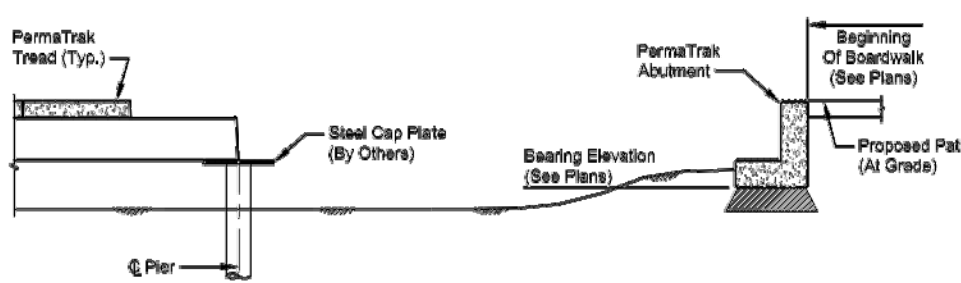
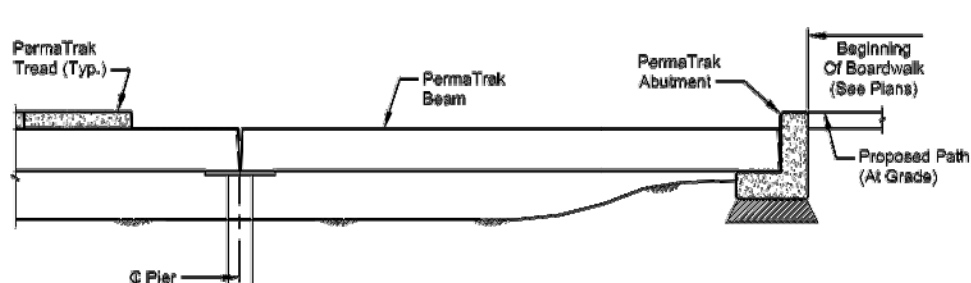

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6					PREPARED FOR:	 The Concrete Boardwalk Company www.permatrak.com TEL: 877-332-7882				OFFICE LOCATIONS FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO		PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT		JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: EMD DRAWN BY: EMD CHECKED BY: EMD SHEET NO. PT05																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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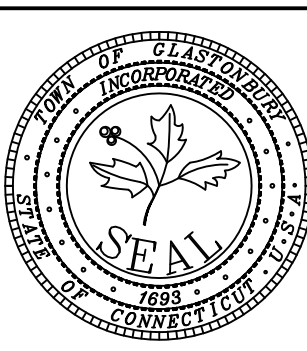
<div>NOTES: This document is intended to provide the installer guidelines for typical PermaTrak applications. It is not meant to be all inclusive and may be adjusted based upon encountered field conditions.</div>				<div>PermaTrak Installation Diagrams</div>									
<div><p>STEP 1: Survey begin station, excavate in-situ soil, set unreinforced concrete pad, set abutment, check horizontal and vertical control.</p></div>				<div><p>STEP 2: Survey center of pier control points. Excavate subgrade to bearing elevation. Set pier supplied by contractor with cap plate. Check horizontal and vertical control.</p></div>				<div><p>STEP 3: Position beam over pier and abutment and ensure uniform bearing.</p></div>					
<div><p>STEP 4: Lay rubber leveling pad on top of beam, position precast tread on top of beam, be sure tread fits snug against abutment.</p></div>				<div><p>STEP 5: Set 2nd tread ahead of 1st tread, aligning tongues with grooves, check joint spacing, adjust tread position if needed, continue setting treads until 1/3 span reached.</p></div>				<div><p>STEP 6: Continue installing piers, beams and treads at design locations until reaching ending abutment. If "Top Down Construction" is desired then PermaTrak engineering must be contacted for approval. Top surface of boardwalk must be protected with plywood or other means while operating machinery on the boardwalk.</p></div>					
<div><p>STEP 7: Establish end of boardwalk (may need adjustment based upon accuracy of installed portion in steps 1 - 6). Excavate in-situ soil at abutment, set unreinforced concrete pad beneath abutment to bearing elevation. Place abutment, check squareness with boardwalk alignment and adjust if necessary.</p></div>				<div><p>STEP 8: Position beam over pier and abutment and ensure uniform bearing. Install treads on top of beams (per steps 4 - 5) until complete.</p></div>				<div>Printed Product U.S. Patent #5,906,084 #6,302,362 #6,522,805 #6,530,889 #6,568,975</div>					
<div><div>82014 by PermaTrak. All drawings contain information that is proprietary to and property of PermaTrak and shall be held confidential. No duplication or distribution of this drawing shall be made without the express written consent of PermaTrak except for the limited purposes set forth in the contract between PermaTrak and party for whom this drawing was made.</div></div>				<div>PREPARED FOR: TOWN OF GLASTONBURY, CT PRELIMINARY FOR DISCUSSION ONLY</div>		<div><div> The Concrete Boardwalk Company</div><div>www.permatrak.com TEL: 877-332-7882</div></div>		<div>OFFICE LOCATIONS FLORIDA GEORGIA LOUISIANA NORTH CAROLINA OHIO</div>		<div>PROJECT TITLE: GLASTONBURY MULTI-USE PATH PHASE II FROM HOUSE STREET TO WESTERN BOULEVARD GLASTONBURY, CONNECTICUT</div>		<div>JOB NUMBER: 2017-004 DATE: 08/20/2018 DESIGNED BY: EMD DRAWN BY: EMD CHECKED BY: EMD SHEET NO. PT06</div>	

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4.	ISSUED FOR CONSTRUCTION	8-8-2019	DRAWN BY: S.Troy	6-20-2018
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2.	REVISED FOR PERMITTING	6-19-2018	APPROVED BY: D.A.P.	6-20-2018
1.	ISSUED FOR PERMITTING	1-25-2017	ST. FILE:	
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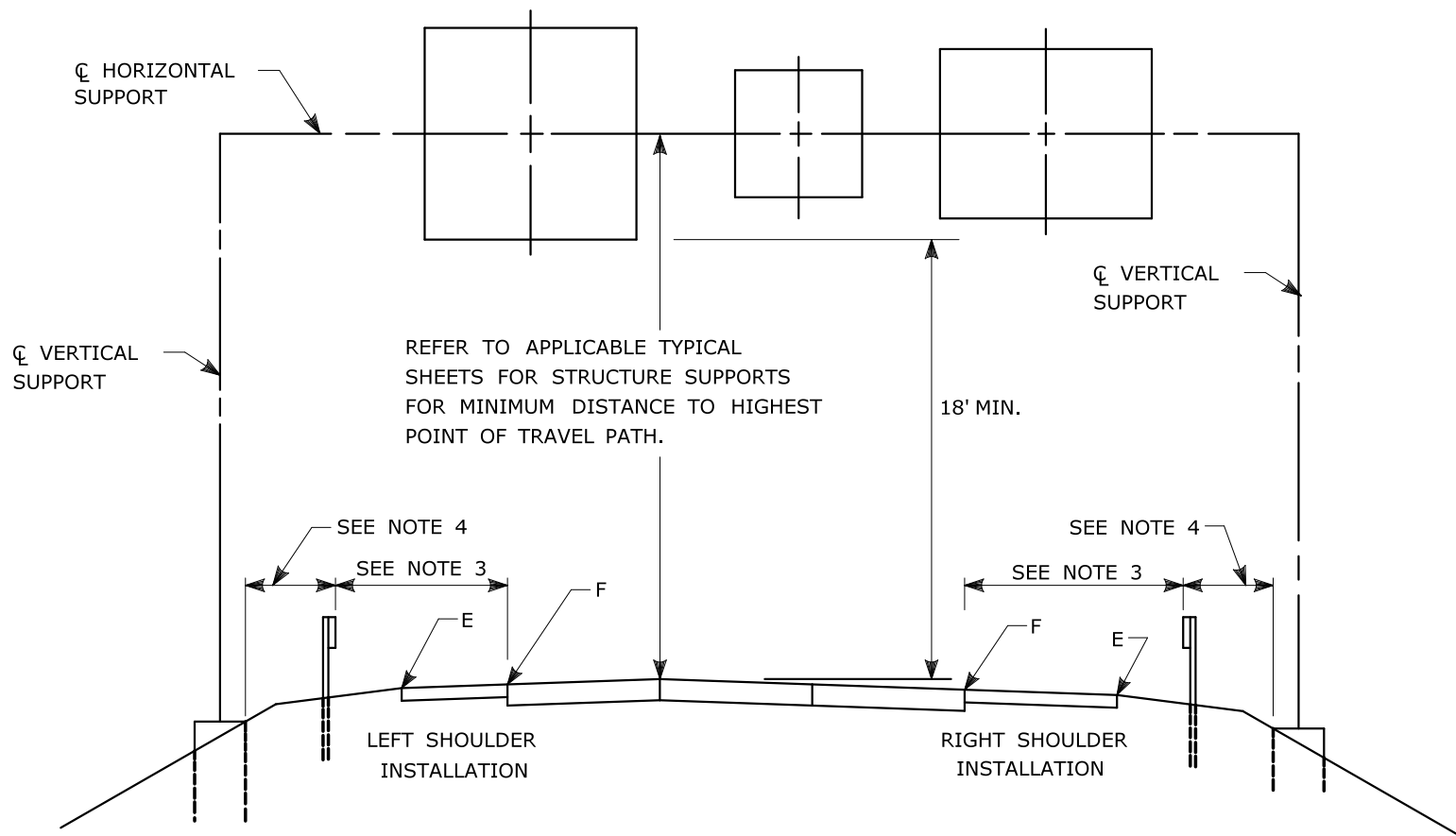


**BOARDWALK CONCEPT PLANS
PROPOSED MULTI-USE PATH
FROM
HOUSE STREET TO
WESTERN BOULEVARD
GLASTONBURY, CONNECTICUT**

SHEET NO.

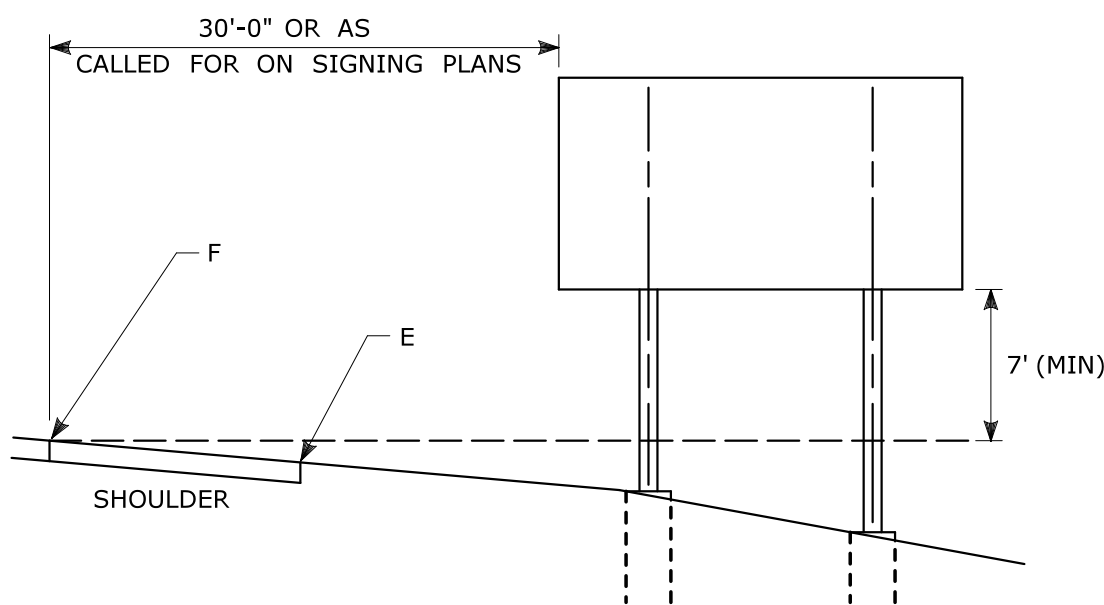
24

OF 24



TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

- NOTES:
- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
 - 2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
 - 3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
 - 4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
 - 5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

- NOTES:
- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
 - 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
 - 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
 - 4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.

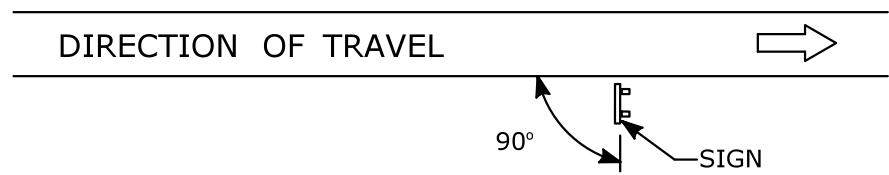


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

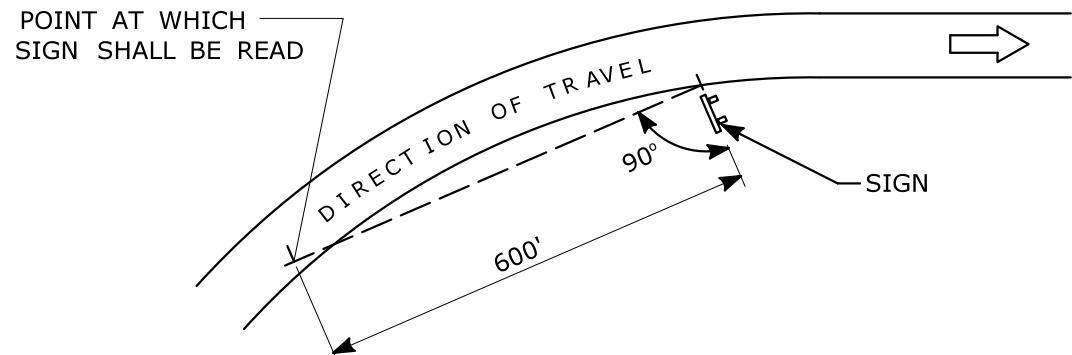
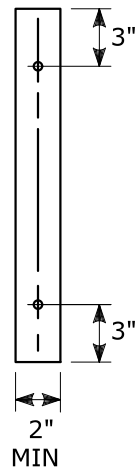


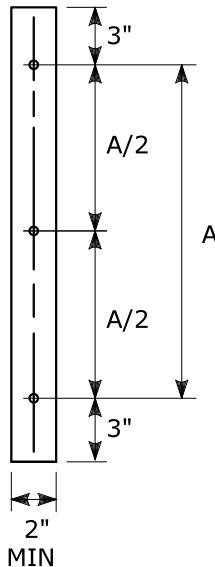
DIAGRAM "B"

SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

RETROREFLECTIVE STRIPS
48" LONG OR LESS:



RETROREFLECTIVE STRIPS
OVER 48" LONG:



RETROREFLECTIVE STRIP DETAIL

NOTES:

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE.
REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.
RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.

TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

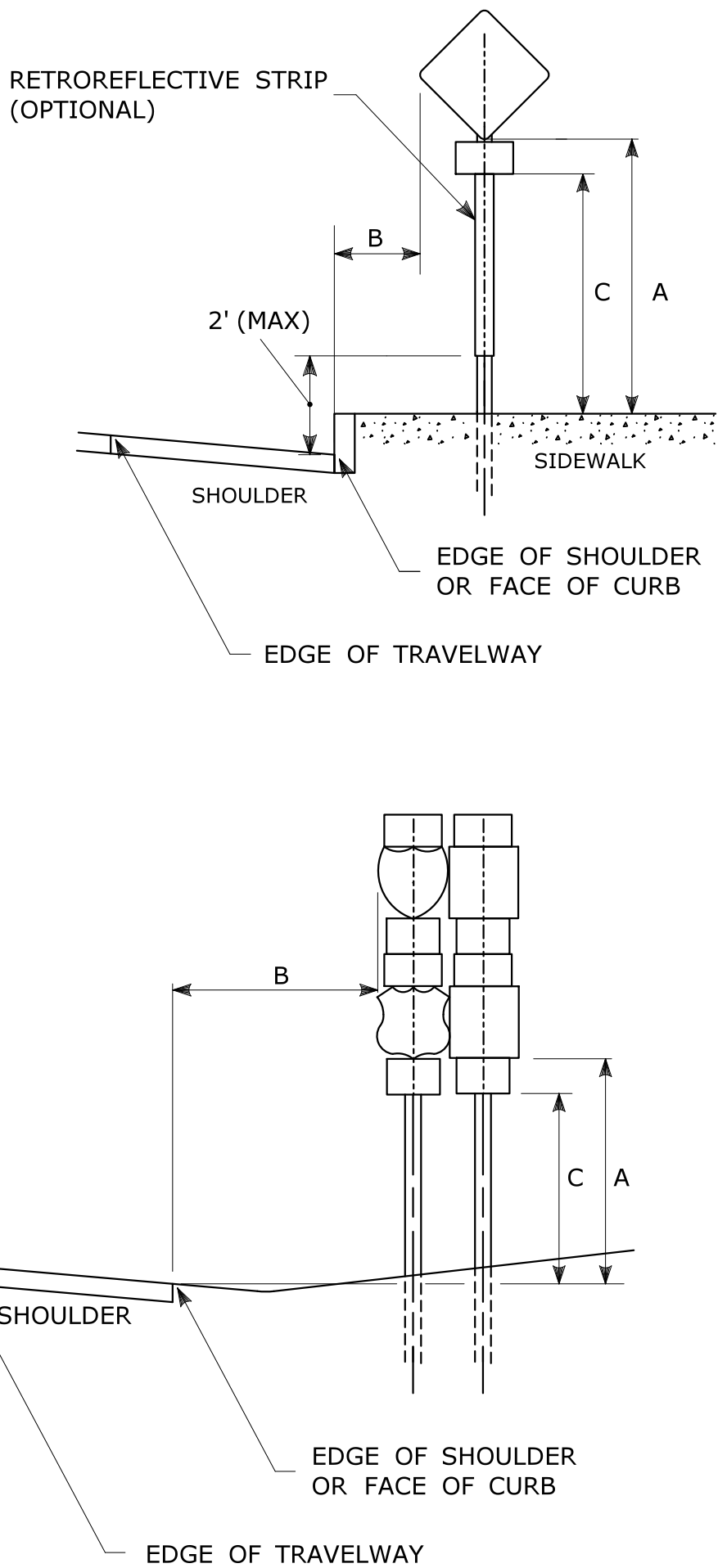
REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETROREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

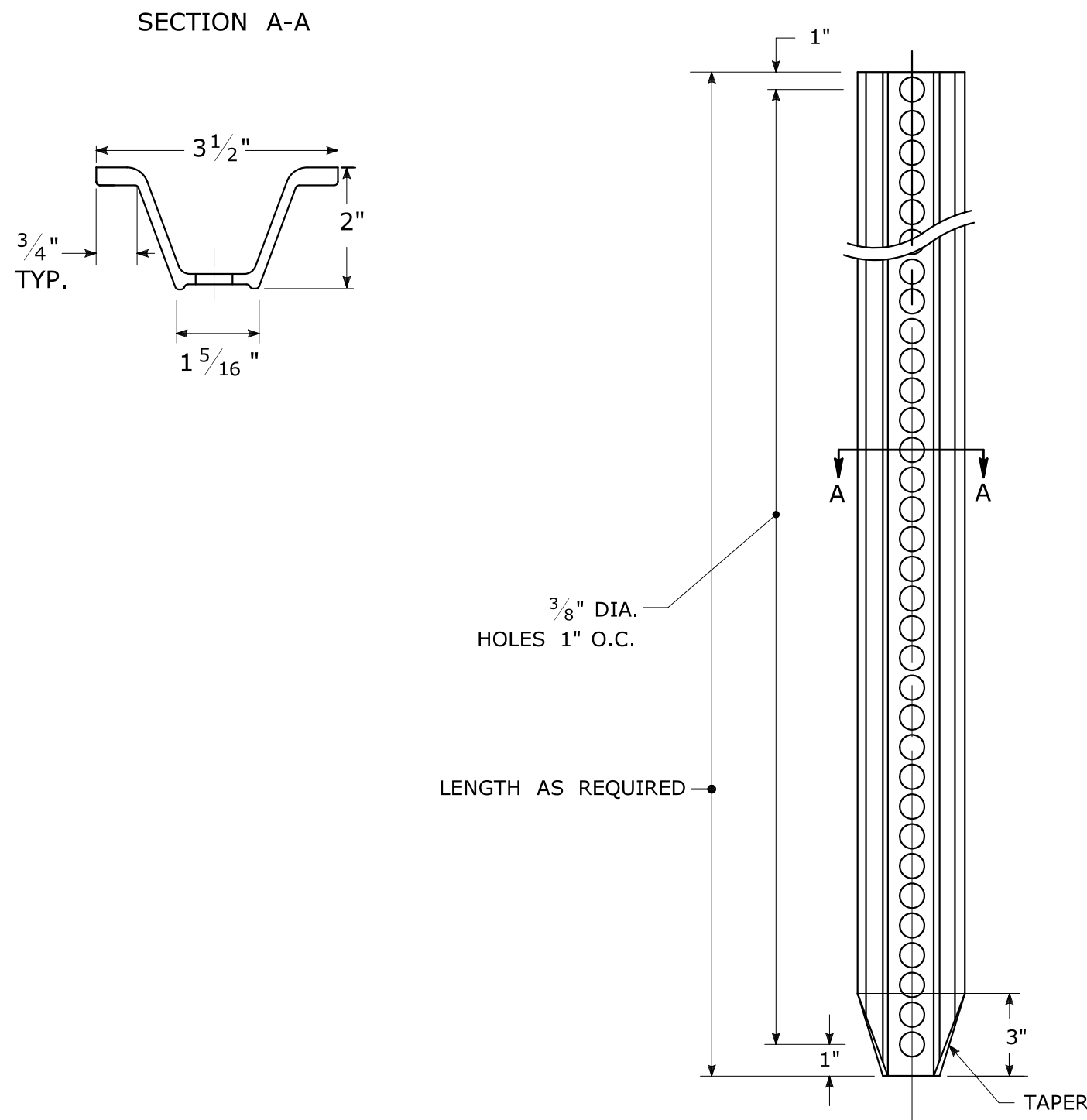
DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET	DIM."C" MIN PLAQUE HEIGHT	ASSEMBLY LOCATION
7'	6' 12'	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	<ul style="list-style-type: none">• SIGNS IN RURAL AREAS• DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMP• DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	<ul style="list-style-type: none">• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS• ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2'	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2'	7'	SIDEWALKS

- OR AS DIRECTED BY THE ENGINEER
- 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.
- 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE
12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.
- A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.
- A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

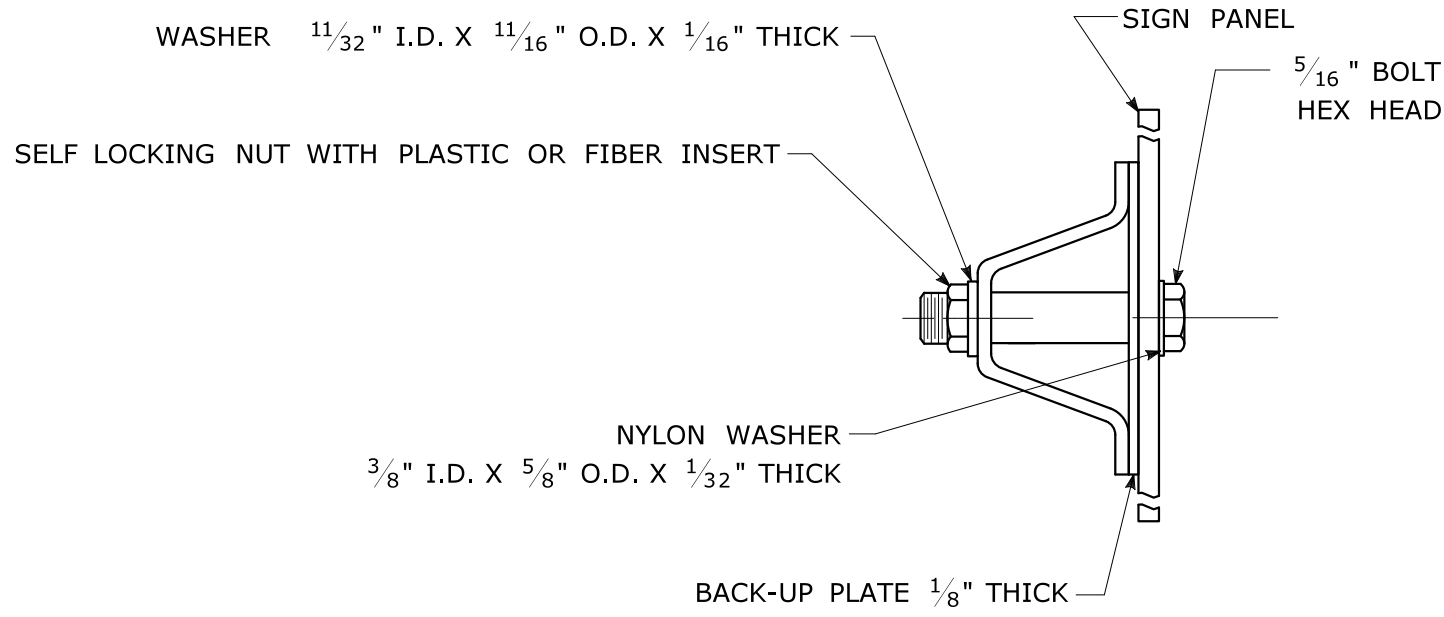


			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			FILENAME: TR_1208_01_LATEST_REVISION.dgn MODEL: TR-1208_01	SUBMITTED BY: NAME/DATE/TIME:	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE:	STANDARD SHEET NO.:
2	4-2017	MINOR REVISIONS.		NOT TO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		APPROVED BY: NAME/DATE/TIME:		SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	TR-1208_01
1	2-2011	MINOR REVISIONS.								
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 4/3/2017							

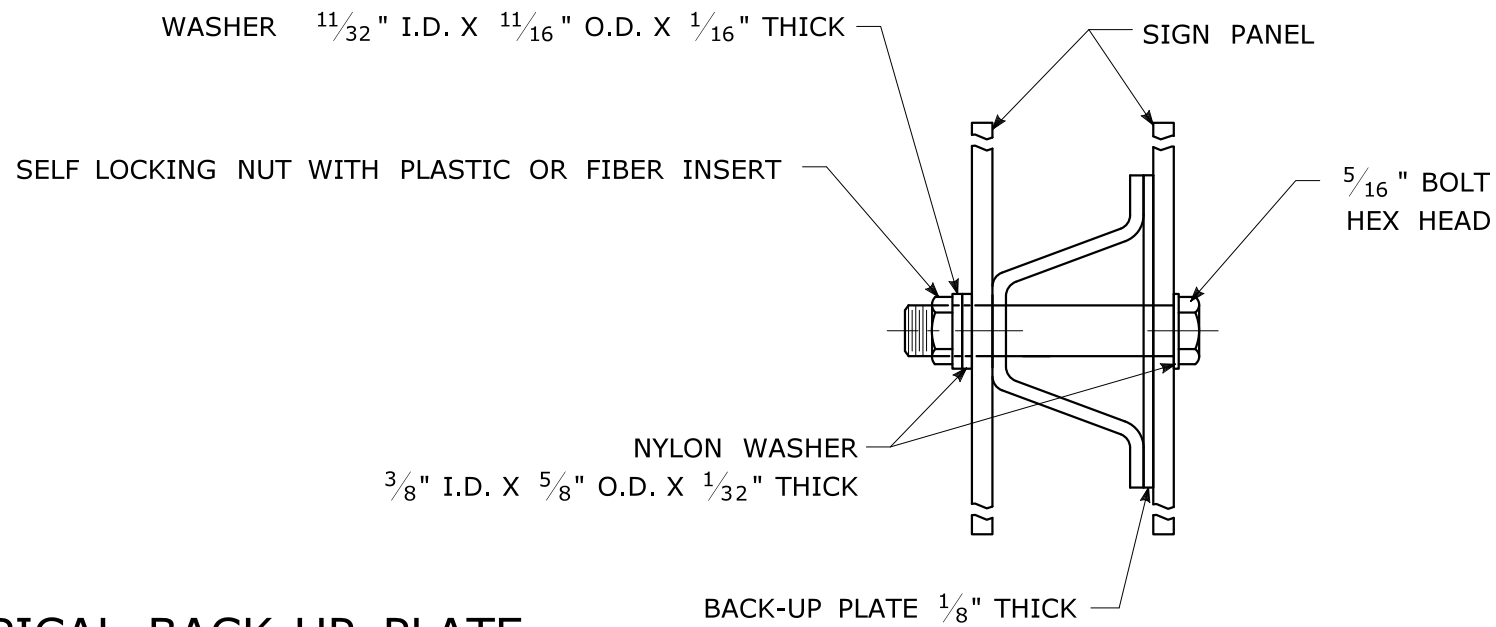
TYPICAL METAL SIGN POSTS



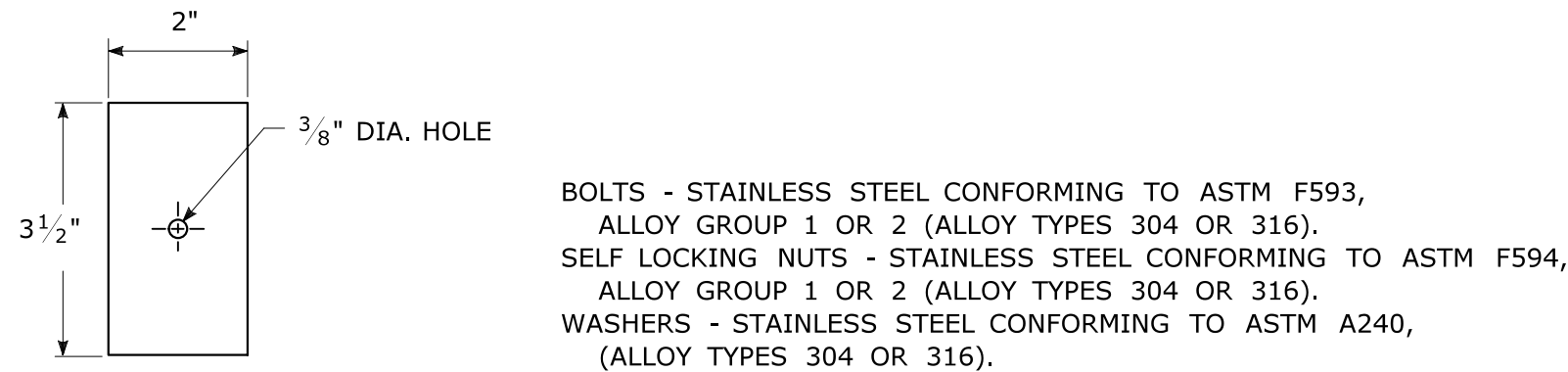
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT

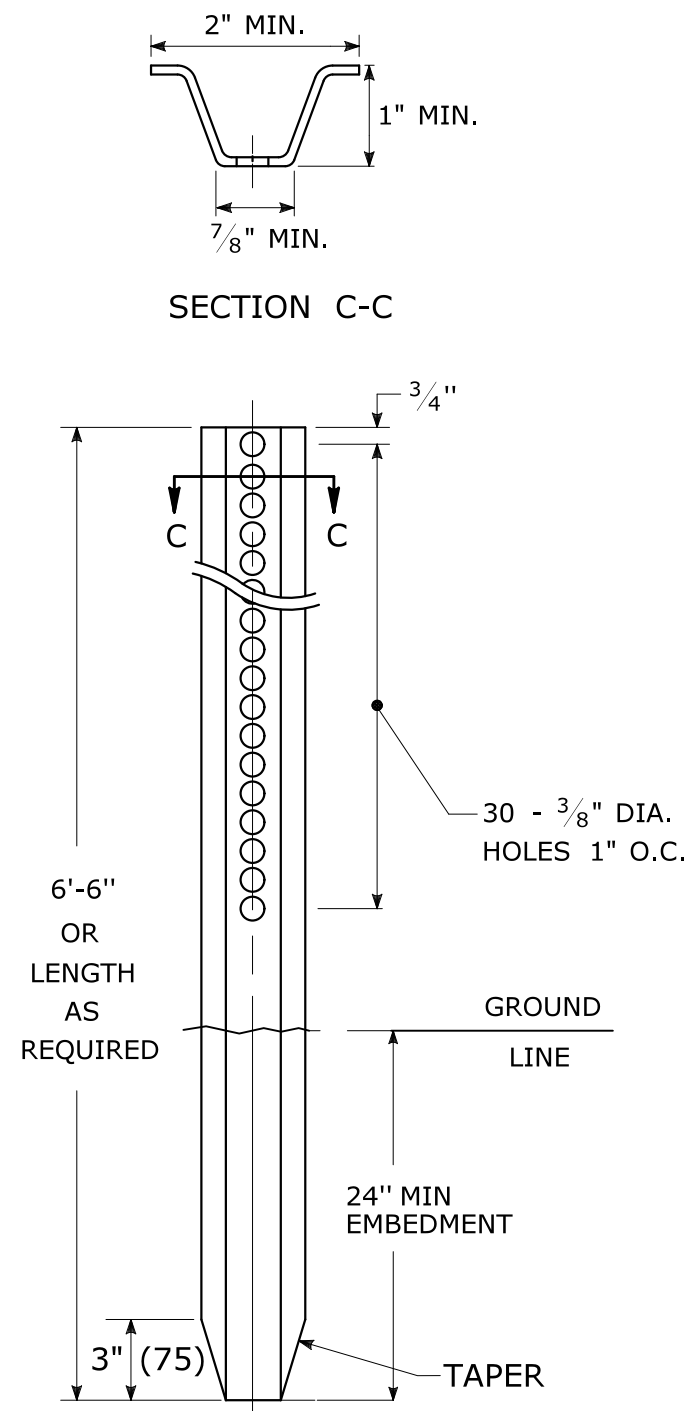


TYPICAL BACK-UP PLATE



METAL DELINEATOR POST

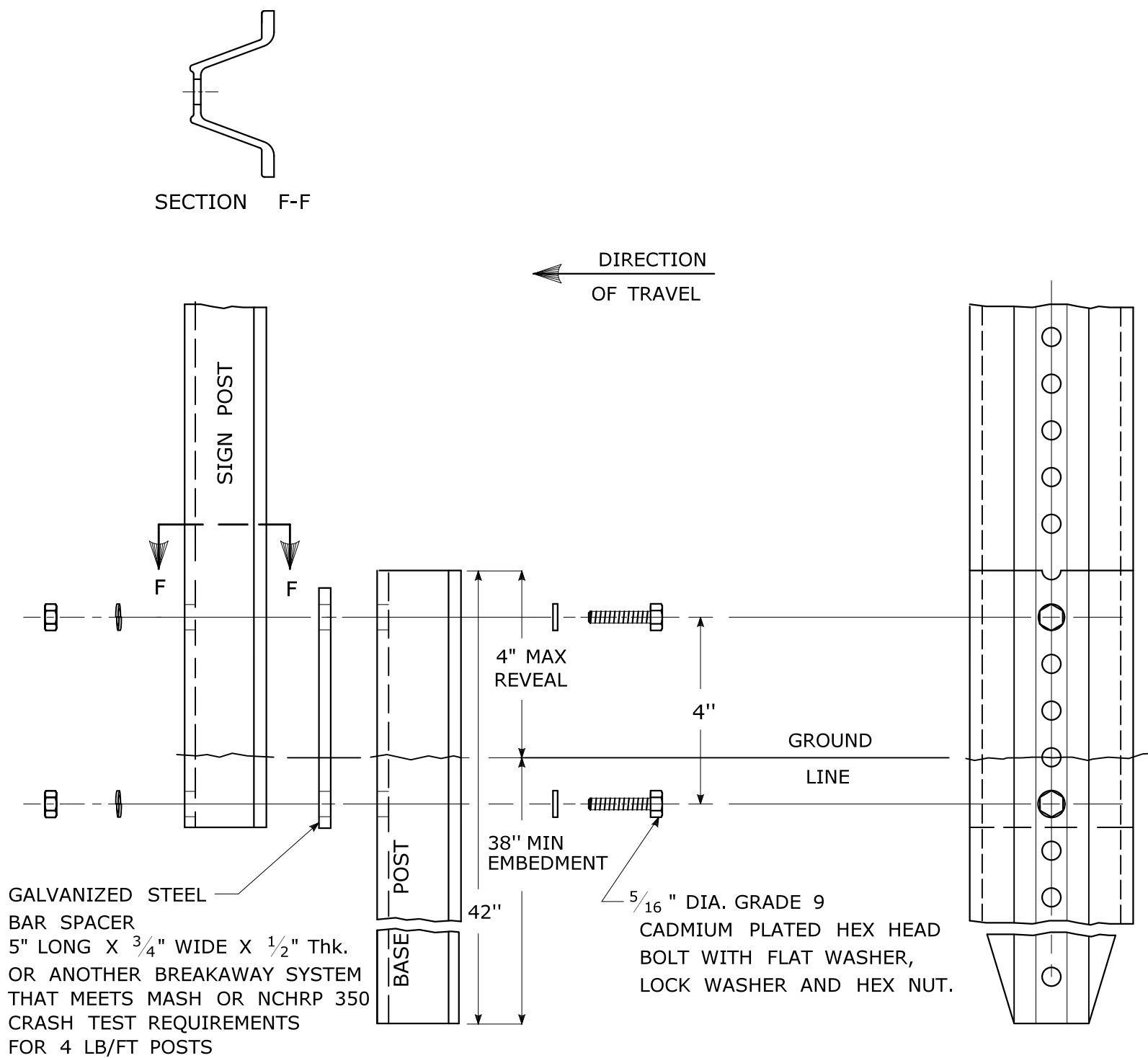
WT./FT. = 1.12 LBS./FT. MIN.



GENERAL NOTES:

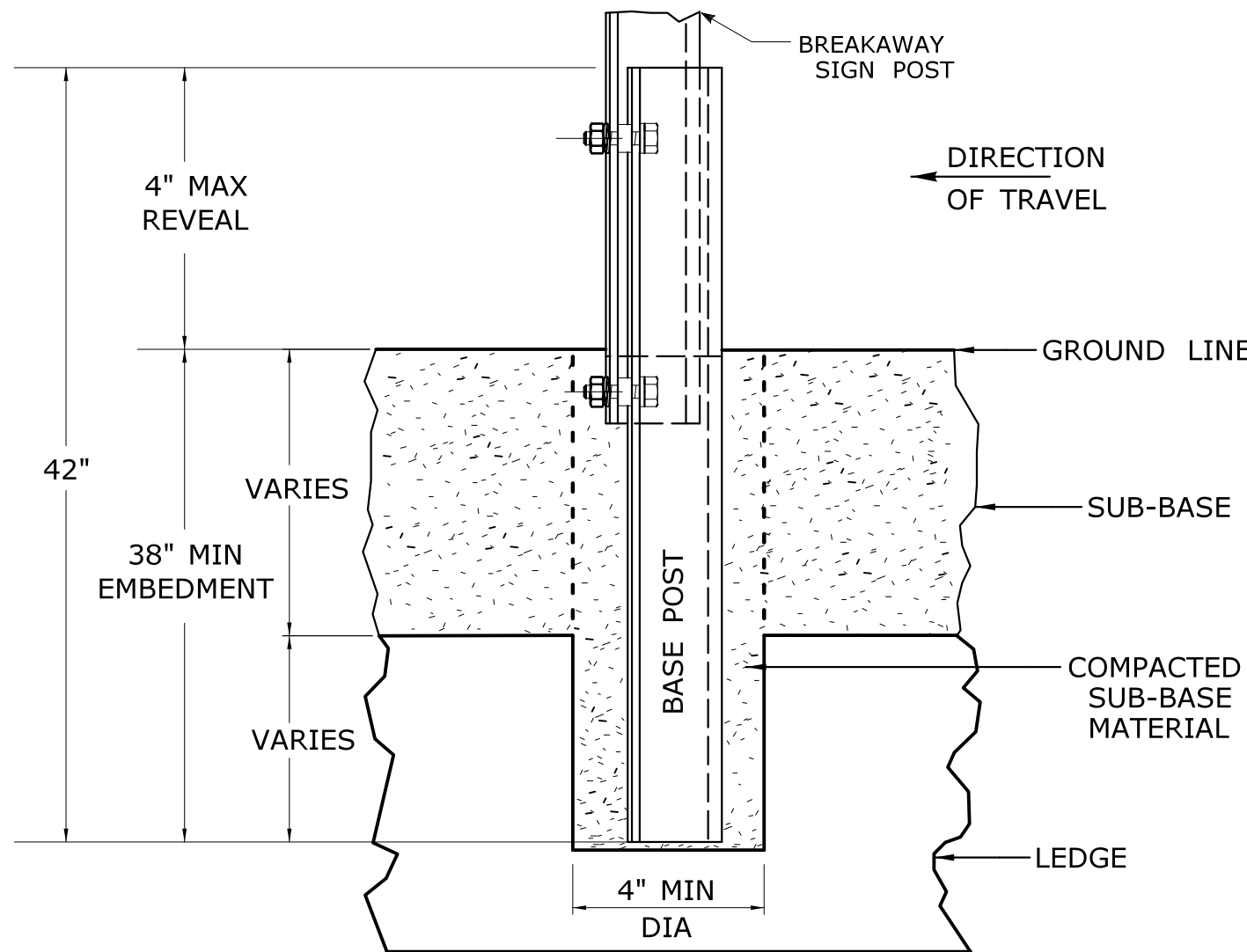
1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION
FOR 4 LBS./FT. POSTS

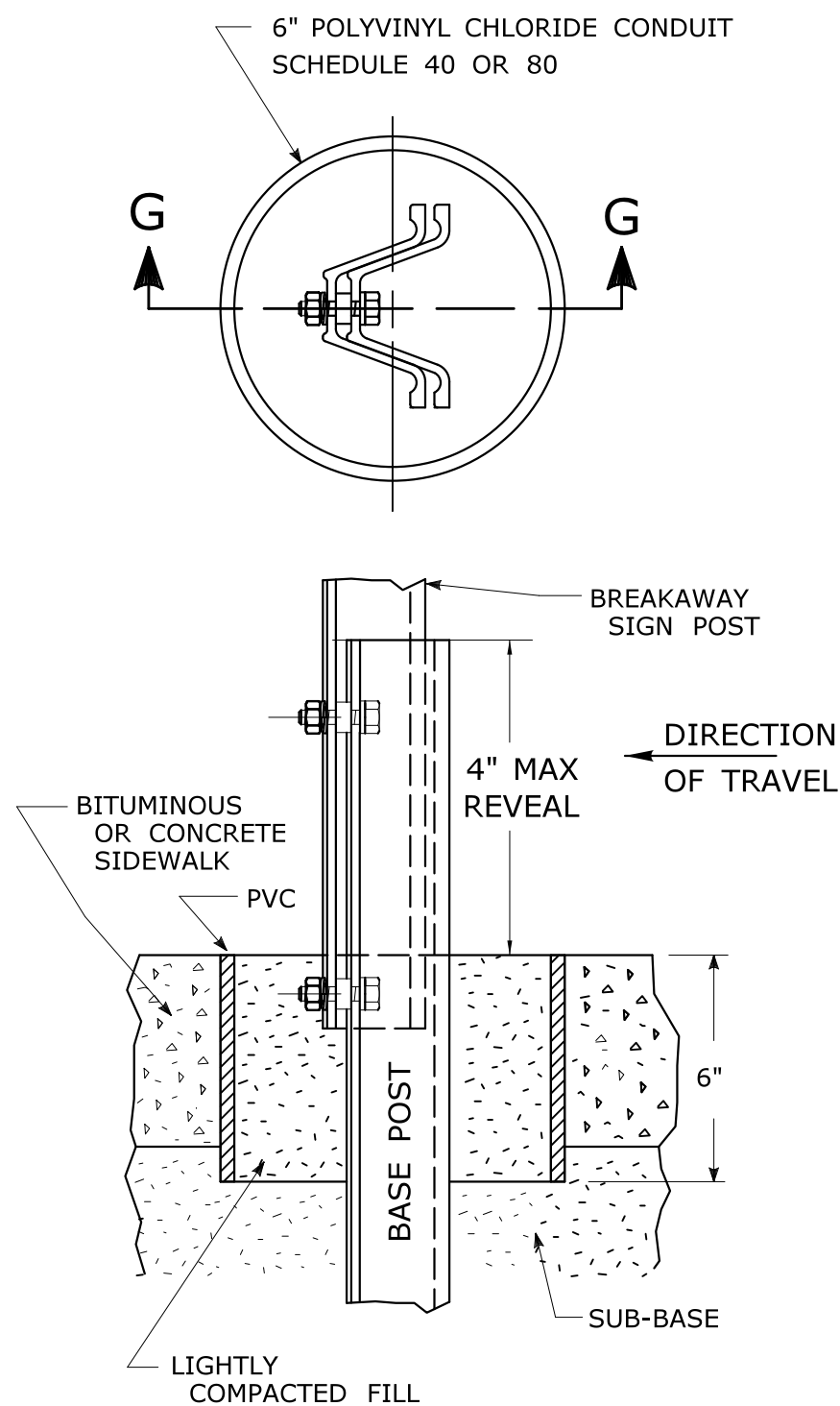


TYPICAL SIGN POST INSTALLATION IN LEDGE

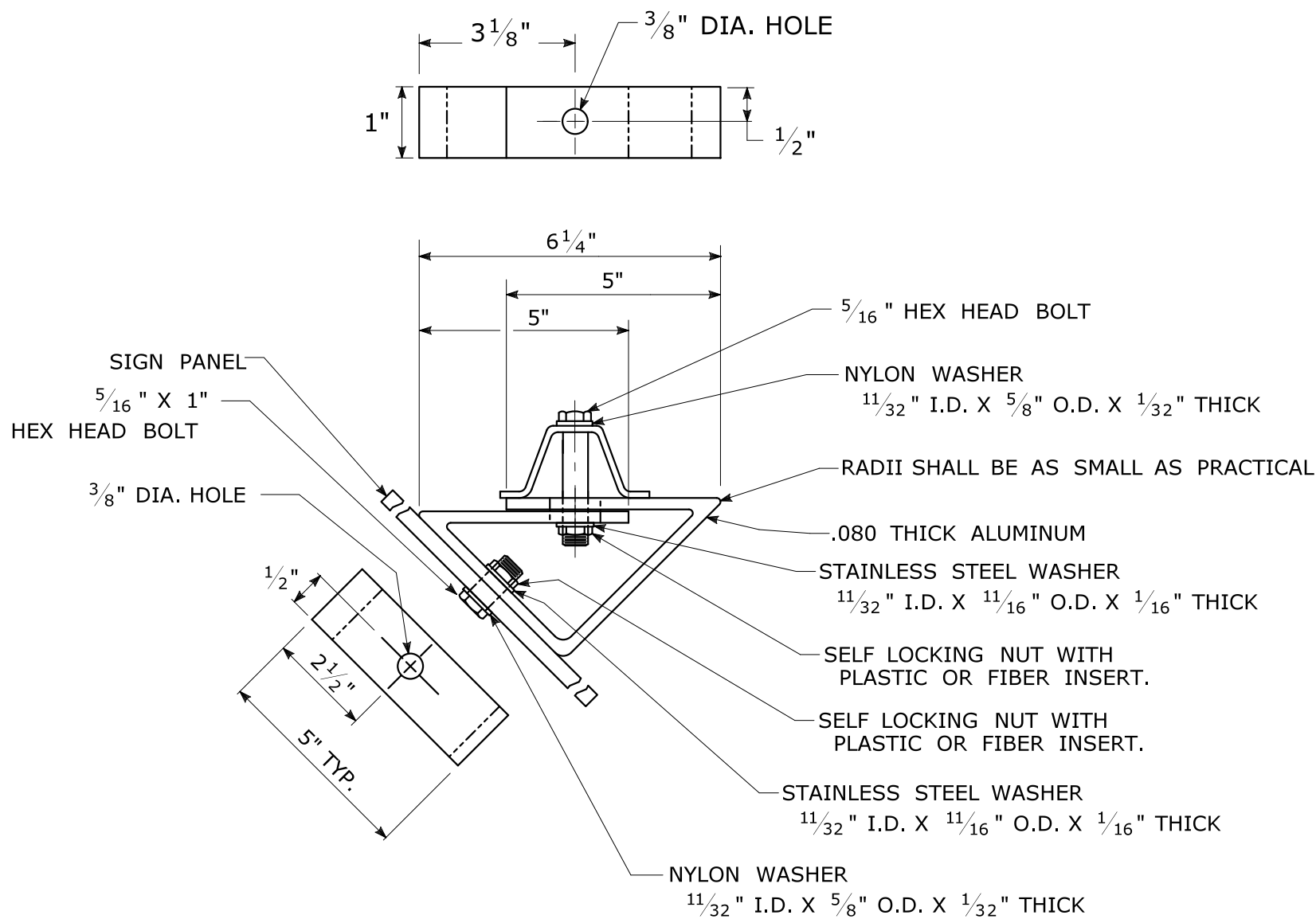
LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE
FOR PAVED AREAS



45° MOUNTING BRACKET
FOR INSTALLATION OF PARKING SIGNS

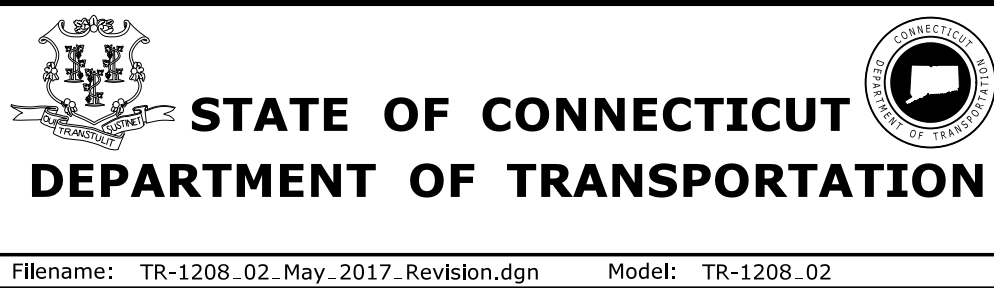


2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.
REV.	DATE	REVISION DESCRIPTION

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/6/2017

NOT TO SCALE



SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:	GUIDE SHEET NO.:
METAL SIGN POSTS AND SIGN MOUNTING DETAILS	TR-1208_02

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																																																																																																																																																																																																																															
<div>ES-1</div> <div></div> <div>COPY & BORDER - WHITE BACKGROUND - GREEN</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>51-6147</td><td>2</td></tr></table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<div><div>G20-2a</div><div></div><div>VARIABLE MILEAGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>8.0</td><td>48X24</td><td>80-9612</td><td>2</td></tr><tr><td>90.0</td><td>120X108</td><td>80-9728</td><td></td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9612	2	90.0	120X108	80-9728		<div><div>M4-8</div><div></div><div>VARIABLE ARROW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9707</td><td>1</td></tr><tr><td>5.0</td><td>30X24</td><td>80-9703</td><td>1</td></tr></table></div> <div><div>M4-9b</div><div></div><div>VARIABLE ARROW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>30X24</td><td>80-9703</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9707	1	5.0	30X24	80-9703	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	30X24	80-9703	1	<div><div>R1-1</div><div></div><div>* COPY & BORDER - WHITE BACKGROUND - RED</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.19</td><td>30</td><td>31-0552</td><td>1</td></tr><tr><td>13.30</td><td>48</td><td>31-0557</td><td>2</td></tr></table></div> <div><div>R1-2</div><div></div><div>* COPY & BORDER - RED BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>3.90</td><td>36</td><td>31-0523</td><td>1</td></tr><tr><td>10.83</td><td>60</td><td>31-0528</td><td>2B</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.19	30	31-0552	1	13.30	48	31-0557	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.90	36	31-0523	1	10.83	60	31-0528	2B	<div><div>R9-9</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>3.75</td><td>30X18</td><td>80-9076</td><td>1</td></tr></table></div> <div><div>R11-3a</div><div></div><div>VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>12.5</td><td>60X30</td><td>80-9077</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.75	30X18	80-9076	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.5	60X30	80-9077	2	<div><div>W1-4</div><div></div><div></div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9432L</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9452L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr></table></div> <div><div>W1-6</div><div></div><div>(L or R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>8.0</td><td>48X24</td><td>80-9424</td><td>2</td></tr><tr><td>12.5</td><td>60X30</td><td>80-9423</td><td>2</td></tr></table></div> <div><div>W1-8</div><div></div><div>(L or R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>3.0</td><td>18X24</td><td>80-9401</td><td>1</td></tr><tr><td>5.0</td><td>24X30</td><td>80-9403</td><td>1</td></tr><tr><td>7.5</td><td>30X36</td><td>80-9404</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9424	2	12.5	60X30	80-9423	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.0	18X24	80-9401	1	5.0	24X30	80-9403	1	7.5	30X36	80-9404	1	<div><div>W3-1</div><div></div><div>OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9808</td><td>1</td></tr></table></div> <div><div>W3-1a</div><div></div><div>OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9050</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9051</td><td>2</td></tr></table></div> <div><div>W3-2a</div><div></div><div>TRIANGLE - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9054</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9055</td><td>2</td></tr></table></div> <div><div>W3-3</div><div></div><div>TOP CIRCLE - RED MIDDLE CIRCLE - YELLOW BOTTOM CIRCLE - GREEN COPY & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9052</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9053</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9808	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9050	1	16.0	48	80-9051	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9054	1	16.0	48	80-9055	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9052	1	16.0	48	80-9053	2																																																																																																																																																
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<div><div>16 - SERIES</div><div></div><div>ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16-M</td><td>5.0</td><td>30X24</td><td>80-1613</td><td>1</td></tr><tr><td>16-H</td><td>17.5</td><td>60X42</td><td>80-1608</td><td>2</td></tr><tr><td>16-E</td><td>35.0</td><td>84X60</td><td>80-1605</td><td>2B</td></tr></table></div> <div><div>CONSTRUCTION AHEAD</div><div>SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16-S</td><td>10.0</td><td>48X30</td><td>80-1619</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16-M	5.0	30X24	80-1613	1	16-H	17.5	60X42	80-1608	2	16-E	35.0	84X60	80-1605	2B	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16-S	10.0	48X30	80-1619	2	<div><div>VARIABLE MILEAGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9711</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9712</td><td>2</td></tr></table></div> <div><div>NEXT 0 MILES</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>7.0</td><td>72X14</td><td>80-9720</td><td></td></tr></table></div> <div><div>VARIABLE MILEAGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>50-5934</td><td>2</td></tr></table></div> <div><div>BUSINESS ACCESS</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>50-5934</td><td>2</td></tr></table></div> <div><div>VARIABLE ARROW</div><div>COPY & BORDER - WHITE BACKGROUND - BLUE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>50-5934</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9711	1	16.0	48	80-9712	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	7.0	72X14	80-9720		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	50-5934	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	50-5934	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	50-5934	2	<div><div>M4-8a</div><div></div><div>VARIABLE ARROW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9707</td><td>1</td></tr><tr><td>3.0</td><td>24X18</td><td>80-9708</td><td>1</td></tr></table></div> <div><div>M4-9b</div><div></div><div>VARIABLE ARROW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.25</td><td>30X30</td><td>80-9706</td><td>1</td></tr></table></div> <div><div>M4-10</div><div></div><div>(R)</div><div></div><div>(L)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.0</td><td>48X18</td><td>80-9701R</td><td>2</td></tr><tr><td>6.0</td><td>48X18</td><td>80-9702L</td><td>2</td></tr></table></div> <div><div>DETOUR</div><div></div><div>VARIABLE ARROW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>30X24</td><td>80-9710</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9707	1	3.0	24X18	80-9708	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	6.25	30X30	80-9706	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	6.0	48X18	80-9701R	2	6.0	48X18	80-9702L	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	30X24	80-9710	1	<div><div>R4 - SERIES</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>24X30</td><td>31-1526</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	24X30	31-1526	1	<div><div>R9-11</div><div></div><div>VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>3.0</td><td>24X18</td><td>80-9074</td><td>1</td></tr></table></div> <div><div>R9-11a</div><div></div><div>VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9075</td><td>1</td></tr></table></div> <div><div>R11-2</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.0</td><td>48X30</td><td>80-9080</td><td>2</td></tr></table></div> <div><div>R11-3b</div><div></div><div>VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>12.5</td><td>60X30</td><td>80-9078</td><td>2</td></tr></table></div> <div><div>R11-3b</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>12.5</td><td>60X30</td><td>80-9081</td><td>2</td></tr></table></div> <div><div>R11-2</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>14.0</td><td>48X42</td><td>31-1906</td><td>2</td></tr><tr><td>22.5</td><td>60X54</td><td>31-1907</td><td>2</td></tr><tr><td>30.0</td><td>72X60</td><td>31-1908</td><td>2B</td></tr></table></div> <div><div>R11-3b</div><div></div><div>COPY & BORDER - BLACK BACKGROUND - WHITE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>14.0</td><td>48X42</td><td>31-1906</td><td>2</td></tr><tr><td>22.5</td><td>60X54</td><td>31-1907</td><td>2</td></tr><tr><td>30.0</td><td>72X60</td><td>31-1908</td><td>2B</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.0	24X18	80-9074	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9075	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.0	48X30	80-9080	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.5	60X30	80-9078	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.5	60X30	80-9081	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	14.0	48X42	31-1906	2	22.5	60X54	31-1907	2	30.0	72X60	31-1908	2B	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	14.0	48X42	31-1906	2	22.5	60X54	31-1907	2	30.0	72X60	31-1908	2B	<div><div>W1-4</div><div></div><div></div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9432L</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9452L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr></table></div> <div><div>W1-6</div><div></div><div>(L or R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>8.0</td><td>48X24</td><td>80-9424</td><td>2</td></tr><tr><td>12.5</td><td>60X30</td><td>80-9423</td><td>2</td></tr></table></div> <div><div>W1-8</div><div></div><div>(L or R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>3.0</td><td>18X24</td><td>80-9401</td><td>1</td></tr><tr><td>5.0</td><td>24X30</td><td>80-9403</td><td>1</td></tr><tr><td>7.5</td><td>30X36</td><td>80-9404</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9424	2	12.5	60X30	80-9423	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.0	18X24	80-9401	1	5.0	24X30	80-9403	1	7.5	30X36	80-9404	1	<div><div>W3-1</div><div></div><div>OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9808</td><td>1</td></tr></table></div> <div><div>W3-1a</div><div></div><div>OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9050</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9051</td><td>2</td></tr></table></div> <div><div>W3-2a</div><div></div><div>TRIANGLE - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9054</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9055</td><td>2</td></tr></table></div> <div><div>W3-3</div><div></div><div>TOP CIRCLE - RED MIDDLE CIRCLE - YELLOW BOTTOM CIRCLE - GREEN COPY & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9052</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9053</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9808	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9050	1	16.0	48	80-9051	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9054	1	16.0	48	80-9055	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9052	1	16.0	48	80-9053	2																																
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5.0	30X24	80-9710	1																																																																																																																																																																																																																																																																																																																																																				
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																																																																																																																																																																																																				
5.0	24X30	31-1526	1																																																																																																																																																																																																																																																																																																																																																				
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																																																																																																																																																																																																				
3.0	24X18	80-9074	1																																																																																																																																																																																																																																																																																																																																																				
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																																																																																																																																																																																																				
2.0	24X12	80-9075	1																																																																																																																																																																																																																																																																																																																																																				
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																																																																																																																																																																																																				
10.0	48X30	80-9080	2																																																																																																																																																																																																																																																																																																																																																				
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12.5	60X30	80-9078	2																																																																																																																																																																																																																																																																																																																																																				
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12.5	60X30	80-9081	2																																																																																																																																																																																																																																																																																																																																																				
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14.0	48X42	31-1906	2																																																																																																																																																																																																																																																																																																																																																				
22.5	60X54	31-1907	2																																																																																																																																																																																																																																																																																																																																																				
30.0	72X60	31-1908	2B																																																																																																																																																																																																																																																																																																																																																				
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9.0	36	80-9432L	1																																																																																																																																																																																																																																																																																																																																																				
9.0	36	80-9431R	1																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9452L	2																																																																																																																																																																																																																																																																																																																																																				
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8.0	48X24	80-9424	2																																																																																																																																																																																																																																																																																																																																																				
12.5	60X30	80-9423	2																																																																																																																																																																																																																																																																																																																																																				
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3.0	18X24	80-9401	1																																																																																																																																																																																																																																																																																																																																																				
5.0	24X30	80-9403	1																																																																																																																																																																																																																																																																																																																																																				
7.5	30X36	80-9404	1																																																																																																																																																																																																																																																																																																																																																				
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9.0	36	80-9808	1																																																																																																																																																																																																																																																																																																																																																				
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9.0	36	80-9050	1																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9051	2																																																																																																																																																																																																																																																																																																																																																				
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16.0	48	80-9053	2																																																																																																																																																																																																																																																																																																																																																				
<div><div>W4-W6 - SERIES</div><div></div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9918L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9917R</td><td>2</td></tr></table></div> <div><div>W6-3</div><div></div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9945</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9918L	2	16.0	48	80-9917R	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9945	2	<div><div>W8-W9 - SERIES</div><div></div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9901</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9902</td><td>2</td></tr></table></div> <div><div>BUMP AHEAD</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9801</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9802</td><td>2</td></tr></table></div> <div><div>W9-2</div><div></div><div></div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9910L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9911R</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9901	1	16.0	48	80-9902	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9801	1	16.0	48	80-9802	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9910L	2	16.0	48	80-9911R	2	<div><div>W13 - SERIES</div><div></div><div>SUBPLATE VARIABLE SPEED</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>4.0</td><td>24</td><td>80-9569</td><td>1</td></tr><tr><td>6.25</td><td>30</td><td>80-9567</td><td>1</td></tr></table></div> <div><div>REDUCE SPEED TO 00 MPH</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9506</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9508</td><td>2</td></tr></table></div> <div><div>VARIABLE SPEED</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9506</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9508</td><td>2</td></tr></table></div> <div><div>SPEED LIMIT AHEAD 00 MPH</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>12.0</td><td>72X24</td><td>80-9519</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	4.0	24	80-9569	1	6.25	30	80-9567	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9506	1	16.0	48	80-9508	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9506	1	16.0	48	80-9508	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.0	72X24	80-9519	2	<div><div>W20 - SERIES</div><div></div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.25</td><td>30</td><td>80-9602</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9603</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9604</td><td>2</td></tr></table></div> <div><div>LEFT LANES CLOSED</div><div>RIGHT LANES CLOSED</div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9836</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9839</td><td>2</td></tr></table></div> <div><div>LEFT TWO LANES CLOSED AHEAD</div><div>RIGHT TWO LANES CLOSED AHEAD</div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9837</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9838</td><td>2</td></tr></table></div> <div><div>SLOW MOVING TRUCKS AHEAD</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>32.0</td><td>96X48</td><td>80-9815</td><td>2B</td></tr></table></div> <div><div>LEFT LANE CLOSED AHEAD</div><div>RIGHT LANE CLOSED AHEAD</div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9847</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9848</td><td>2</td></tr></table></div> <div><div>LEFT LANE CLOSED</div><div>RIGHT LANE CLOSED</div><div>(L) (R)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9846</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9849</td><td>2</td></tr></table></div> <div><div>ONE LANE ROAD AHEAD</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9805</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9806</td><td>2</td></tr></table></div> <div><div>VARIABLE MILEAGE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.5</td><td>30X12</td><td>80-9872</td><td></td></tr><tr><td>4.5</td><td>36X18</td><td>80-9873</td><td></td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	6.25	30	80-9602	1	9.0	36	80-9603	1	16.0	48	80-9604	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9836	2	16.0	48	80-9839	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9837	2	16.0	48	80-9838	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	32.0	96X48	80-9815	2B	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9847	2	16.0	48	80-9848	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9846	2	16.0	48	80-9849	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9805	1	16.0	48	80-9806	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.5	30X12	80-9872		4.5	36X18	80-9873		<div><div>W21 - SERIES</div><div></div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9607</td><td>1</td></tr></table></div> <div><div>PEDESTRIAN DETOUR</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9912</td><td>1</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9607	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9912	1	<div><div>W22 - SERIES</div><div></div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9620</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9625</td><td>2</td></tr></table></div> <div><div>TURN OFF 2-WAY RADIO AND CELL PHONE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9623</td><td>2</td></tr></table></div> <div><div>END BLASTING ZONE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>7.5</td><td>36X30</td><td>80-9622</td><td>2</td></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9620	1	16.0	48	80-9625	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9623	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	7.5	36X30	80-9622	2	10.5	42X36	80-9621	2	<div><div>(VARIABLE LEGEND)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>4.17</td><td>60X10</td><td>80-9913</td><td>2</td></tr><tr><td>12.0</td><td>96X18</td><td>80-9914</td><td>2</td></tr><tr><td>3.33</td><td>48X10</td><td>80-9916</td><td>2</td></tr></table></div> <div><div>STAY IN LINE</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9951</td><td>2</td></tr></table></div> <div><div>USE SHOULDER</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9956</td><td>2</td></tr></table></div> <div><div>SHOULDER CLOSED AHEAD</div><div>SHOULDER CLOSED</div><div>(1) (2)</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9957</td><td>2</td></tr><tr><td>(1) 9.0</td><td>36</td><td>80-9958</td><td>1</td></tr><tr><td>(2) 9.0</td><td>36</td><td>80-9958</td><td>2</td></tr><tr><td>(2) 16.0</td><td>48</td><td>80-9959</td><td>2</td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	4.17	60X10	80-9913	2	12.0	96X18	80-9914	2	3.33	48X10	80-9916	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9951	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9956	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9957	2	(1) 9.0	36	80-9958	1	(2) 9.0	36	80-9958	2	(2) 16.0	48	80-9959	2	<div><div>STOP-SLOW PADDLE</div><div>* STOP</div><div>* SLOW</div><div>SIDE A BACKGROUND - RED COPY & BORDER - WHITE</div><div>SIDE B BACKGROUND - ORANGE COPY & BORDER - BLACK PLAIN</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.51</td><td>19</td><td>80-9950</td><td>PADDLE</td></tr></table></div> <div><div>NEW</div><div>COPY & BORDER - BLACK BACKGROUND - YELLOW</div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>12X24</td><td>41-0815</td><td></td></tr></table></div>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.51	19	80-9950	PADDLE	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	12X24	41-0815	
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																																																																																																																																																																																																				
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16.0	48	80-9911R	2																																																																																																																																																																																																																																																																																																																																																				
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4.0	24	80-9569	1																																																																																																																																																																																																																																																																																																																																																				
6.25	30	80-9567	1																																																																																																																																																																																																																																																																																																																																																				
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9.0	36	80-9506	1																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9508	2																																																																																																																																																																																																																																																																																																																																																				
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12.0	72X24	80-9519	2																																																																																																																																																																																																																																																																																																																																																				
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6.25	30	80-9602	1																																																																																																																																																																																																																																																																																																																																																				
9.0	36	80-9603	1																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9604	2																																																																																																																																																																																																																																																																																																																																																				
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16.0	48	80-9836	2																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9839	2																																																																																																																																																																																																																																																																																																																																																				
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16.0	48	80-9837	2																																																																																																																																																																																																																																																																																																																																																				
16.0	48	80-9838	2																																																																																																																																																																																																																																																																																																																																																				
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32.0	96X48	80-9815	2B																																																																																																																																																																																																																																																																																																																																																				
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16.0	48	80-9848	2																																																																																																																																																																																																																																																																																																																																																				
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2.5	30X12	80-9872																																																																																																																																																																																																																																																																																																																																																					
4.5	36X18	80-9873																																																																																																																																																																																																																																																																																																																																																					
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9.0	36	80-9607	1																																																																																																																																																																																																																																																																																																																																																				
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12.0	96X18	80-9914	2																																																																																																																																																																																																																																																																																																																																																				
3.33	48X10	80-9916	2																																																																																																																																																																																																																																																																																																																																																				
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<div>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</div> <div>Plotted Date: 8/25/2015</div>				<div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div> <div>Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_01</div>				<div>SUBMITTED BY: NAME/DATE/TIME:</div> <div>APPROVED BY: NAME/DATE/TIME:</div> <div>CTDOT STANDARD SHEET</div> <div>OFFICE OF ENGINEERING</div>				<div>STANDARD SHEET TITLE:</div> <div>SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS</div> <div>STANDARD SHEET NO.: TR-1220_01</div>																																																																																																																																																																																																																																																																																																																																											



NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24".
SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

* FOR E5-1 (EXIT SIGNS) USE MIN 48".



NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



PLACEMENT OF CONSTRUCTION SIGNS

TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.



SEE TYPICAL SHEETS:

"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
 "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	<div><div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div></div> <div>Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_02</div>	SUBMITTED BY: _____NAME/DATE/TIME: _____		CTDOT STANDARD SHEET	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	STANDARD SHEET TITLE: _____	STANDARD SHEET NO.: _____
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.				APPROVED BY: _____NAME/DATE/TIME: _____					
1	2-2011	MINOR REVISIONS.									
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/14/2015					OFFICE OF ENGINEERING			