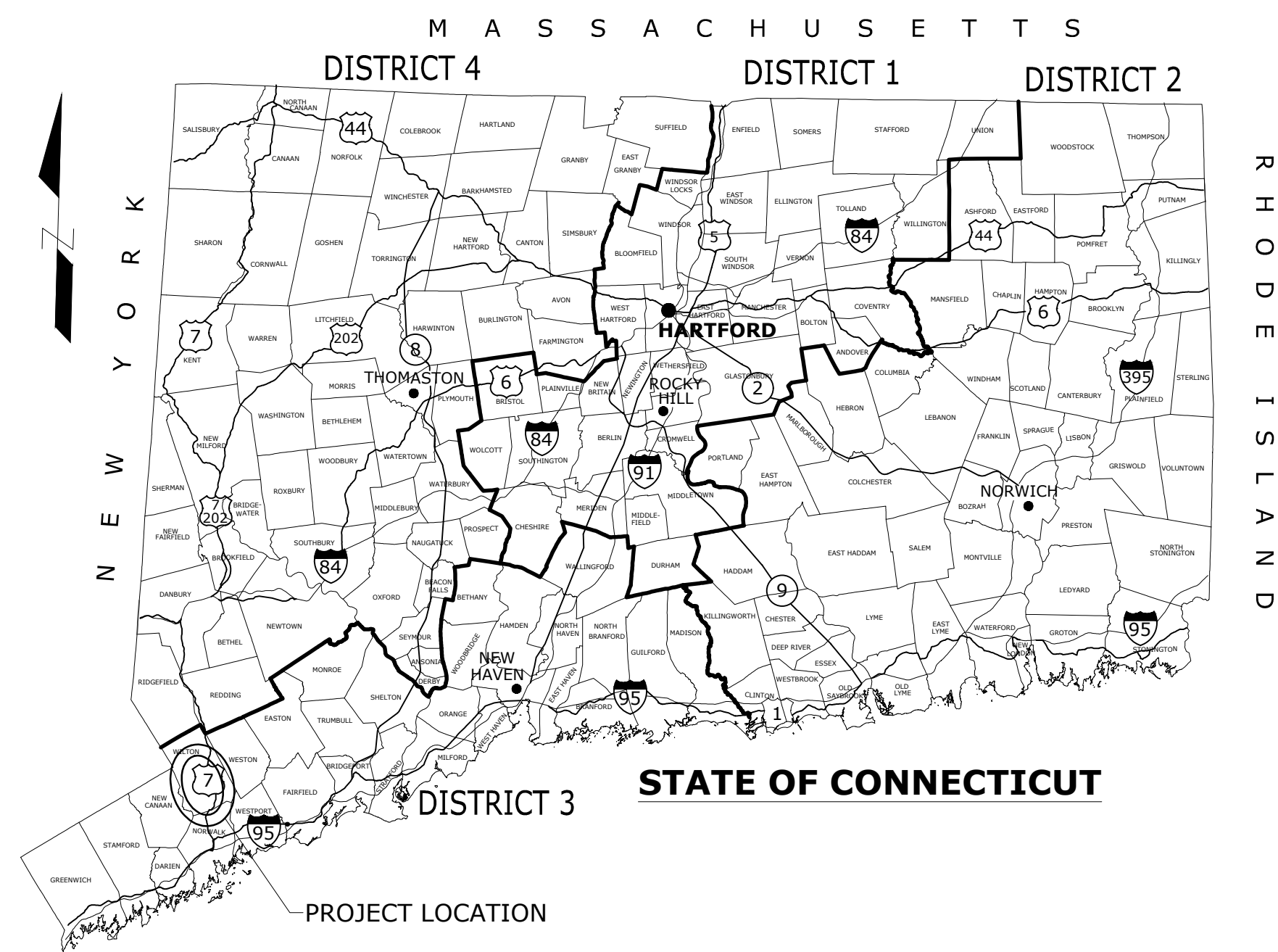


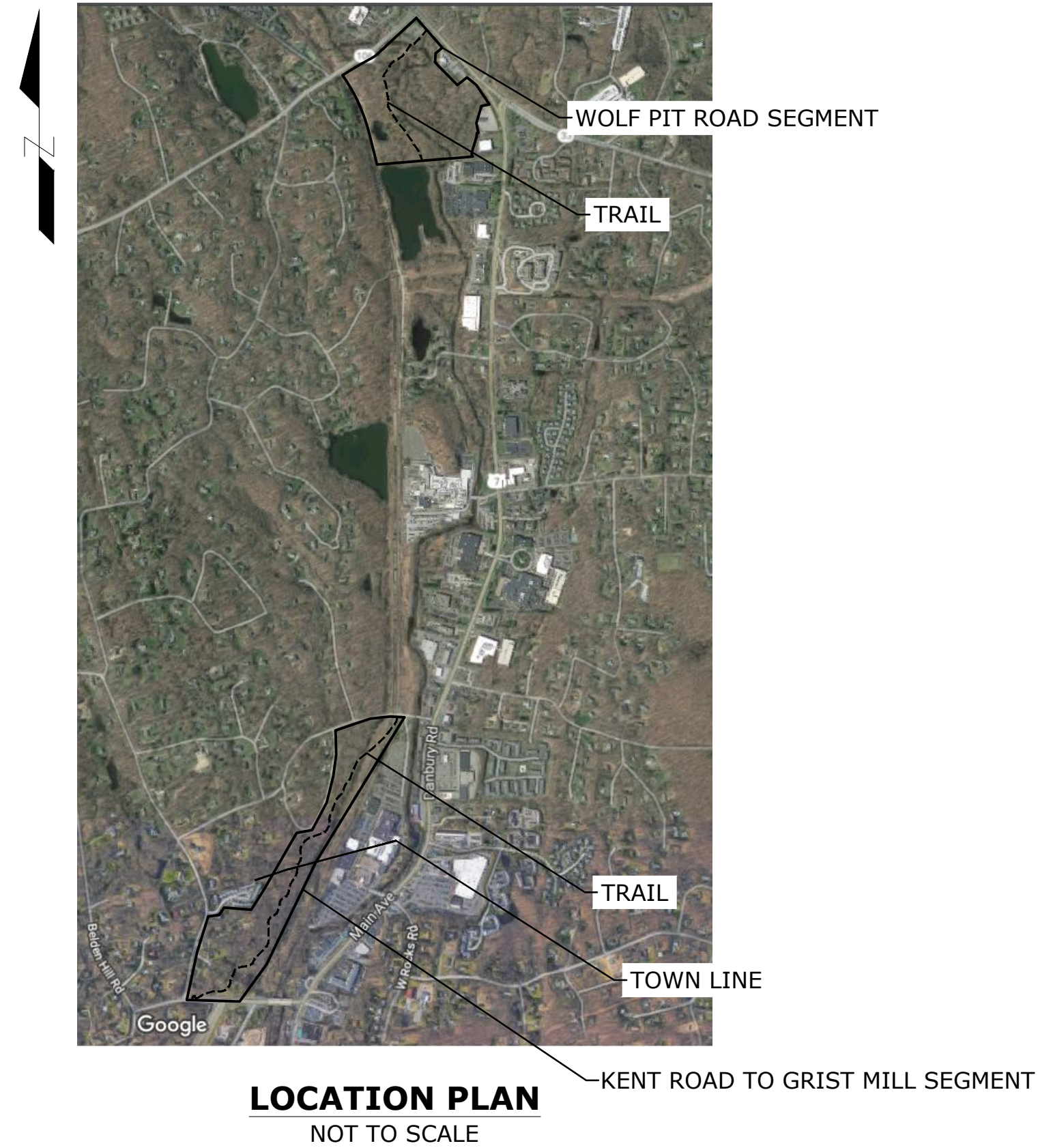
NORWALK RIVER VALLEY TRAIL



Plans for 'WIL-WALK' SEGMENT

**GRIST MILL ROAD TO KENT ROAD AND
WOLF PIT ROAD TO EXISTING POND**

Town of
WILTON *City of*
& NORWALK



LIST OF DRAWINGS

EX 01-02	EXISTING CONDITIONS PLAN
PLN 01-06	TRAIL PLANS
PRO 01-05	PROFILE PLANS
D-01	SEDIMENTATION & EROSION CONTROL DETAILS
D 02	DETAILS
D 03-05	BOARDWALK DETAILS

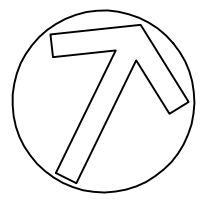
JUNE 24TH, 2020

Plans For
**NORWALK RIVER VALLEY TRAIL
'WIL-WALK' SECTION**

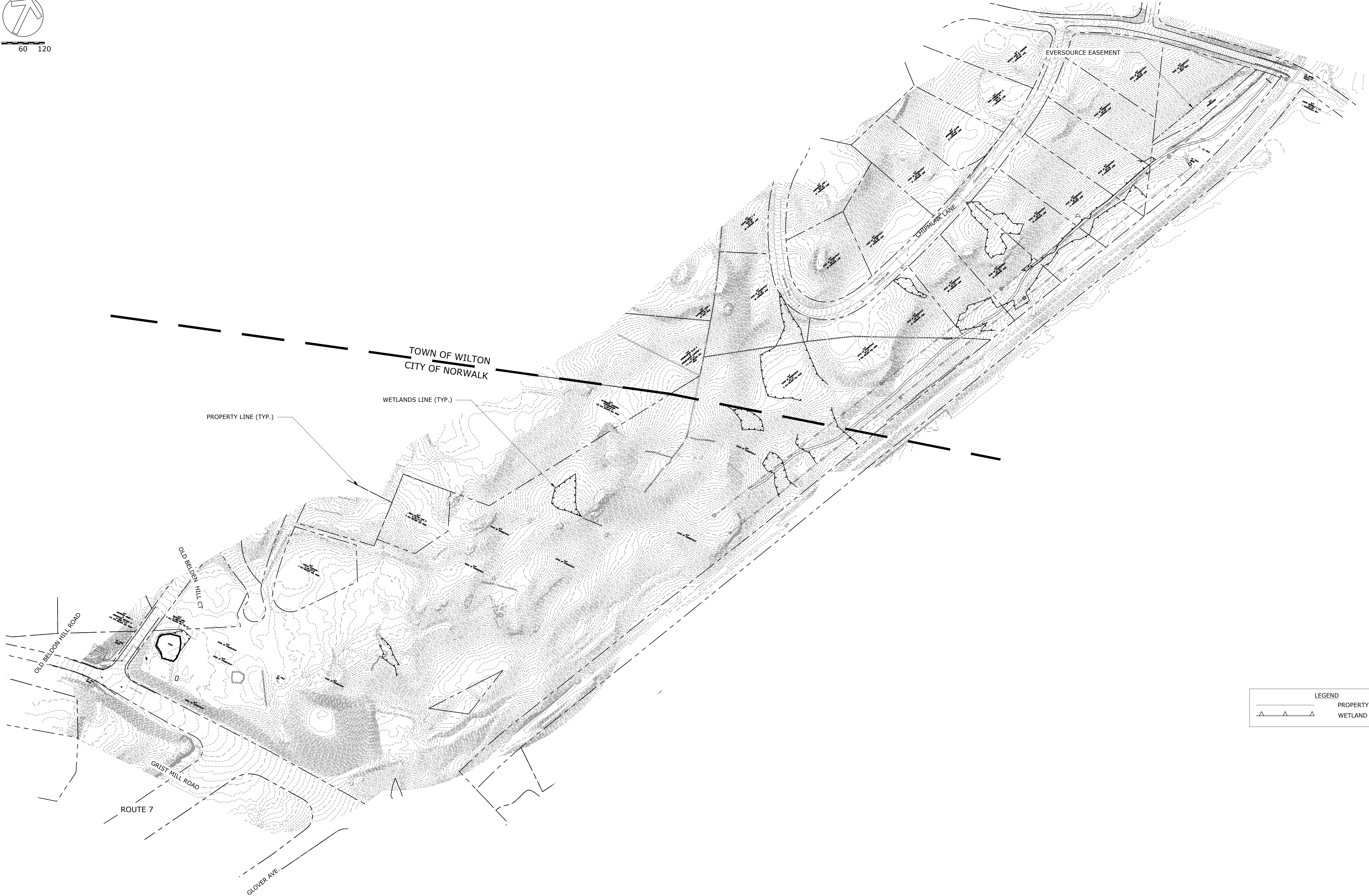
Town of
WILTON *City of*
NORWALK

PROJECT NO.

DRAWING NO.
G-01
SHEET NO.
G-01

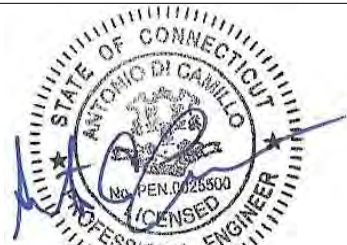


60 120



LEGEND	
	PROPERTY LINE
	WETLAND

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER: M. PATE
CHECKED BY: A. DICAMILLO
SCALE: 1" = 100'

**CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT**

Filename:



Stantec Consulting Services Inc.
55 Church Street, Suite 601
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www.stantec.com

PROJECT TITLE:

**NORWALK RIVER VALLEY TRAIL
'WIL-WALK'**

CITY:

NORWALK & WILTON

DRAWING TITLE:

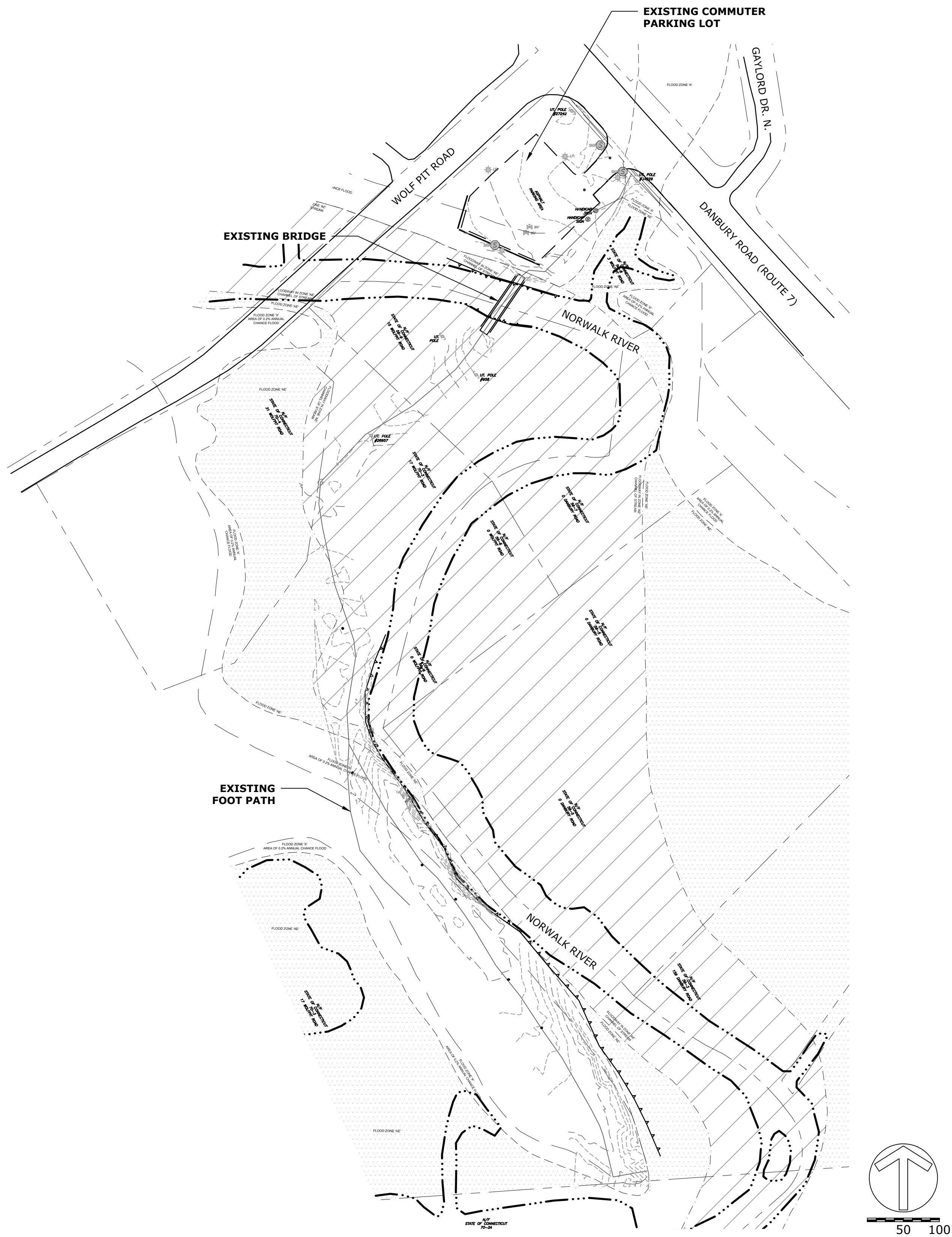
EXISTING CONDITIONS PLAN

PROJECT NO.

DRAWING NO.

SHEET NO.

EX-01



REV.	DATE	REVISION DESCRIPTION	SHEET NO.



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SCALE: AS NOTED

CITY OF NORWALK/
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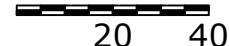
EXISTING CONDITIONS PLAN

PROJECT NO.

DRAWING NO.

SHEET NO.

EX-02



LEGEND

MILE-A-MINUTE NOTES:

THE MILE-A-MINUTE VINE HAS BEEN IDENTIFIED/LOCATED IN SOME AREAS WITHIN THE TRAIL CORRIDOR. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING BEST MANAGEMENT PRACTICES:

1. WALK THE ROUTE TO IDENTIFY AREAS WHERE THE VINE IS PRESENT WHICH WILL BE IMPACTED BY CONSTRUCTION.
2. VINES IN THESE AREAS SHALL BE REMOVED BY MECHANICAL MEANS. PULL AND BALE VINES AND ROOTS BEING CAREFUL NOT TO KNOCK OFF FRUITS ONTO THE GROUND TO THE GREATEST EXTENT POSSIBLE. STOCK PILE VINES AND LET VINES DRY OUT COMPLETELY BEFORE DISPOSING OF THE VINES OFF-SITE IN A LEGAL MANNER.
3. CONTRACTOR SHALL INSPECT VEHICLES' TRACKS PERIODICALLY PRIOR TO EXITING THE SITE TO MINIMIZE THE SPREAD OF SEEDS.

PROPOSED BOARDWALK AT WETLAND CROSSING

PROPOSED GRAVEL PARKING AREA

PROPOSED BOARDWALK AT WETLAND CROSSING

PROPOSED CULVERT (TYP.)
BEGIN/END TRAIL SEGMENT AT TOWN LINE

TOWN OF WILTON
CITY OF NORWALK

PROPERTY LINE (TYP.)

WETLANDS LINE (TYP.)

PROPOSED BOARDWALK AT WETLAND CROSSING

10' WIDE STONE DUST TRAIL (TYP.) **P-)**

PROPOSED CULVERT (TYP.)

OLD BELDEN HILL CT

02

— BEGIN PROPOSED TRAIL
STA 10+00

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROTECT ALL EXISTING OBJECTS WITHIN AND ADJACENT TO THE CONSTRUCTION SITE. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPORTED IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DAMAGE CAUSED AT NO ADDITIONAL COST TO THE OWNER.
2. THE BASE MAPPING SHOWN ON THIS SHEET WAS COMPILED FROM FIELD SURVEY AND G.I.S. MAPPING. THE INFORMATION SHOWN IS APPROXIMATE. THE G.I.S. INFORMATION WAS SUPPLEMENTED BY INFORMATION TAKEN FROM AERIAL MAPPING AND ALSO BY FIELD VISITS PERFORMED BY STANTEC CONSULTING INC. CONTRACTOR SHALL INSPECT THE SITE CONDITIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES FOUND TO THE OWNER OR THE OWNER'S REPRESENTATIVE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING CONDITIONS. IF THERE ARE ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE OWNER.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE TOPSOILED AND SEEDED (SEE SPECIFICATIONS)
5. THE ALIGNMENT SHOWN ON THE PLAN IS APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT THE CENTERLINE OF THE PATHWAYS PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL BY OWNER. FIELD ADJUSTMENTS MAY BE NECESSARY.
6. THE EXISTING GRADING SHOWN ON THE PLAN IS BASED ON G.I.S. MAPPING AND THEREFORE PROPOSED CONTOURS SHOULD BE CONSIDERED AS APPROXIMATE. DURING CONSTRUCTION OPERATIONS, SOME GRADING MAY NEED TO BE ADJUSTED BASED ON FIELD CONDITIONS. DISTURBANCE TO THE SITE SHALL BE MINIMIZED.
7. ALL TREES WITHIN THE LIMIT OF GRADING SHALL BE REMOVED ALONG WITH ALL STUMPS. FILL VOIDS CREATED WITH SUITABLE ON-SITE MATERIAL.
8. CONTRACTOR SHALL COMPACT MATERIALS AT 6" LIFTS (MAX.) USING A VIBRATORY ROLLER OR SIMILAR. MATERIALS SHALL BE MOIST TO AID IN COMPACTION. WATER MAY NEED TO BE ADDED TO THE MATERIALS PRIOR TO OR DURING COMPACTION.

[illegible]

DESIGNER/DRAFTER:	M. PATE
CHECKED BY:	A. DICAMILLO
SCALE:	1" = 100'

**CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT**

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PROJECT TITLE:

NORWALK RIVER VALLEY TRAIL 'WIL-WALK'

CITY:	
-------	--

NORWALK & WILTON

DRAWING TITLE:

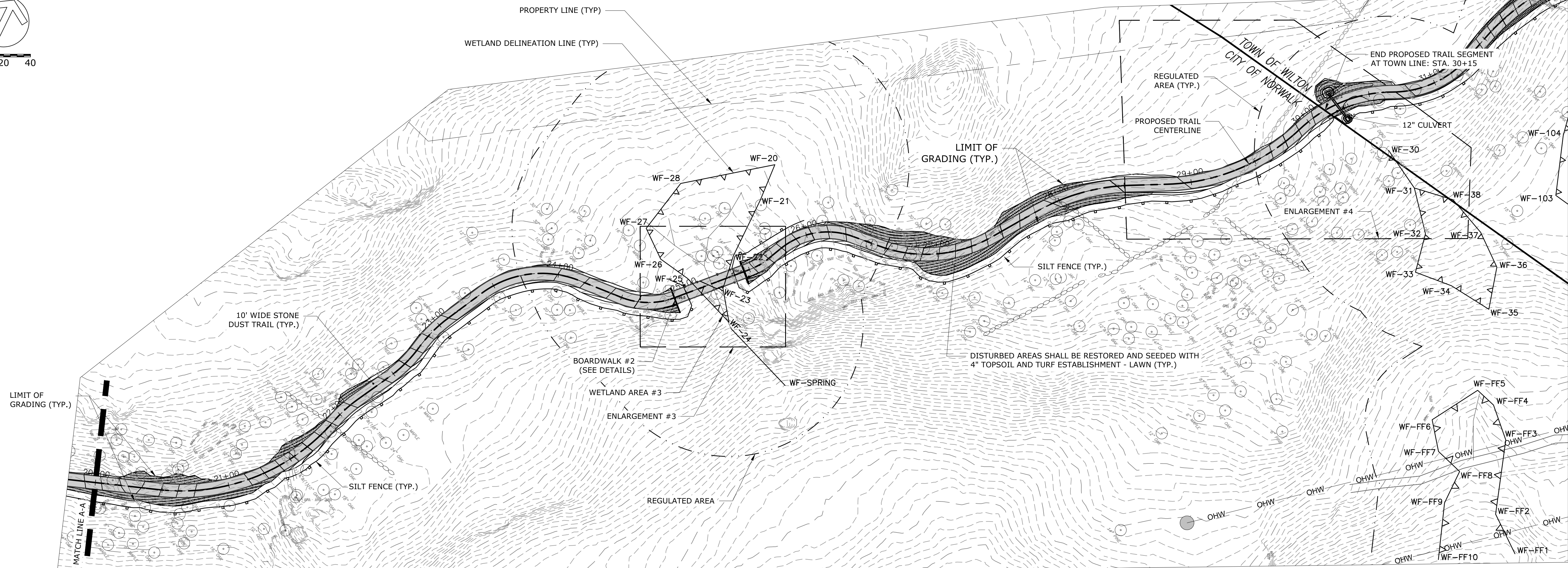
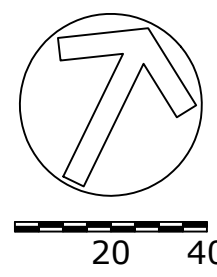
OVERALL TRAIL PLAN

PROJECT NO.

DRAWING NO.

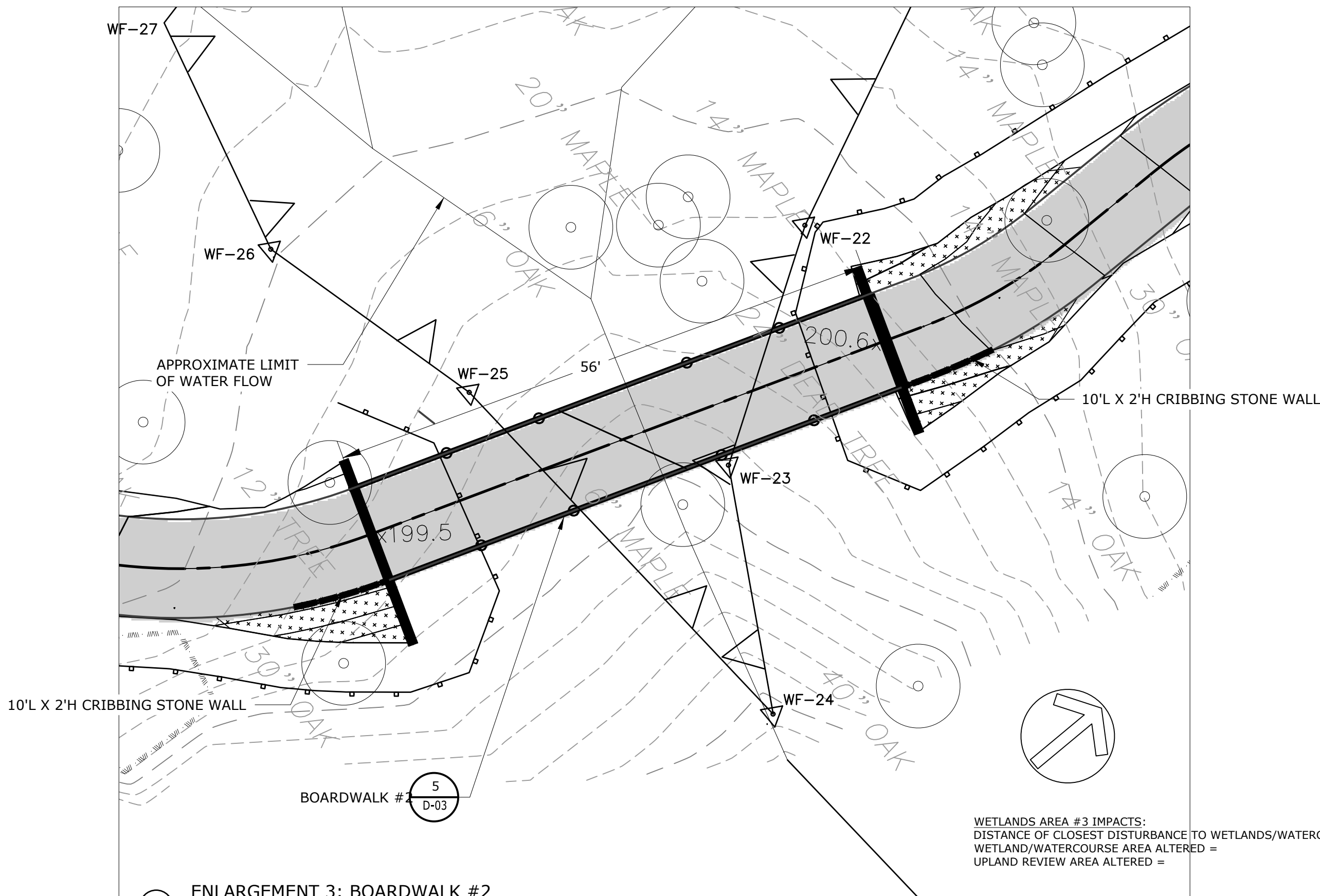
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PLN-01

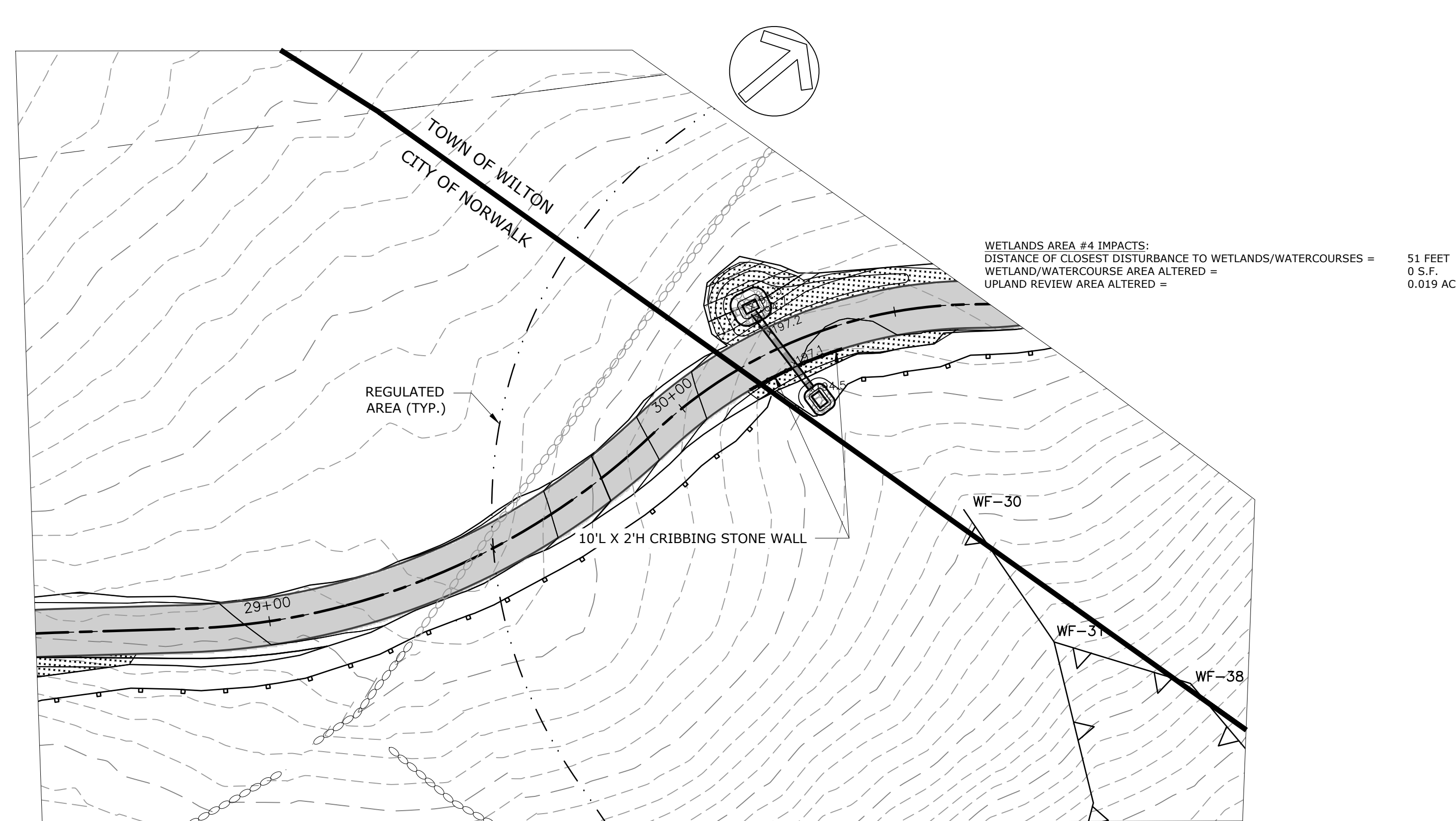


- LEGEND
- PROPERTY LINE
 - WETLAND
 - REGULATED AREA
 - SILT FENCE
 - LIMIT OF GRADING
 - TRAIL CENTERLINE
 - 10' WIDE STONE DUST TRAIL
 - CONSERVATION SEED MIX

0 PLAN
SCALE: 1" = 40'

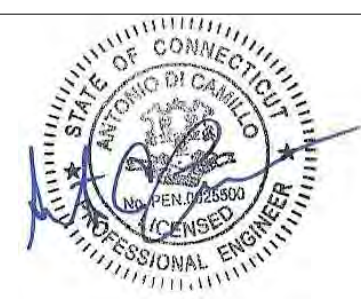


1 ENLARGEMENT 3: BOARDWALK #2
SCALE: 1" = 10'



2 ENLARGEMENT 4: UPLAND REVIEW AREA IMPACTS
SCALE: 1" = 20'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
M. PATE
CHECKED BY:
A. DICAMILLO
SCALE:
SCALE:
SCALE AS NOTED

CITY OF NORWALK/
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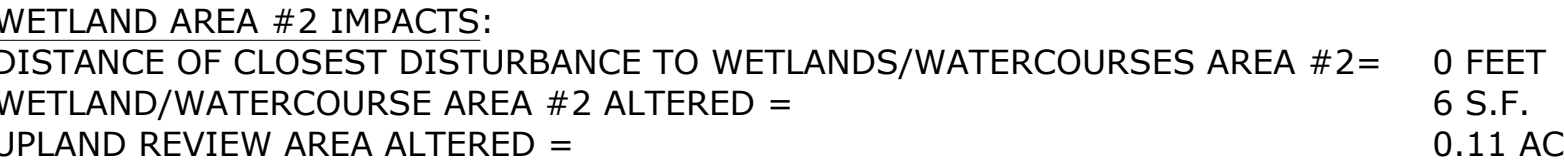
TRAIL PLAN

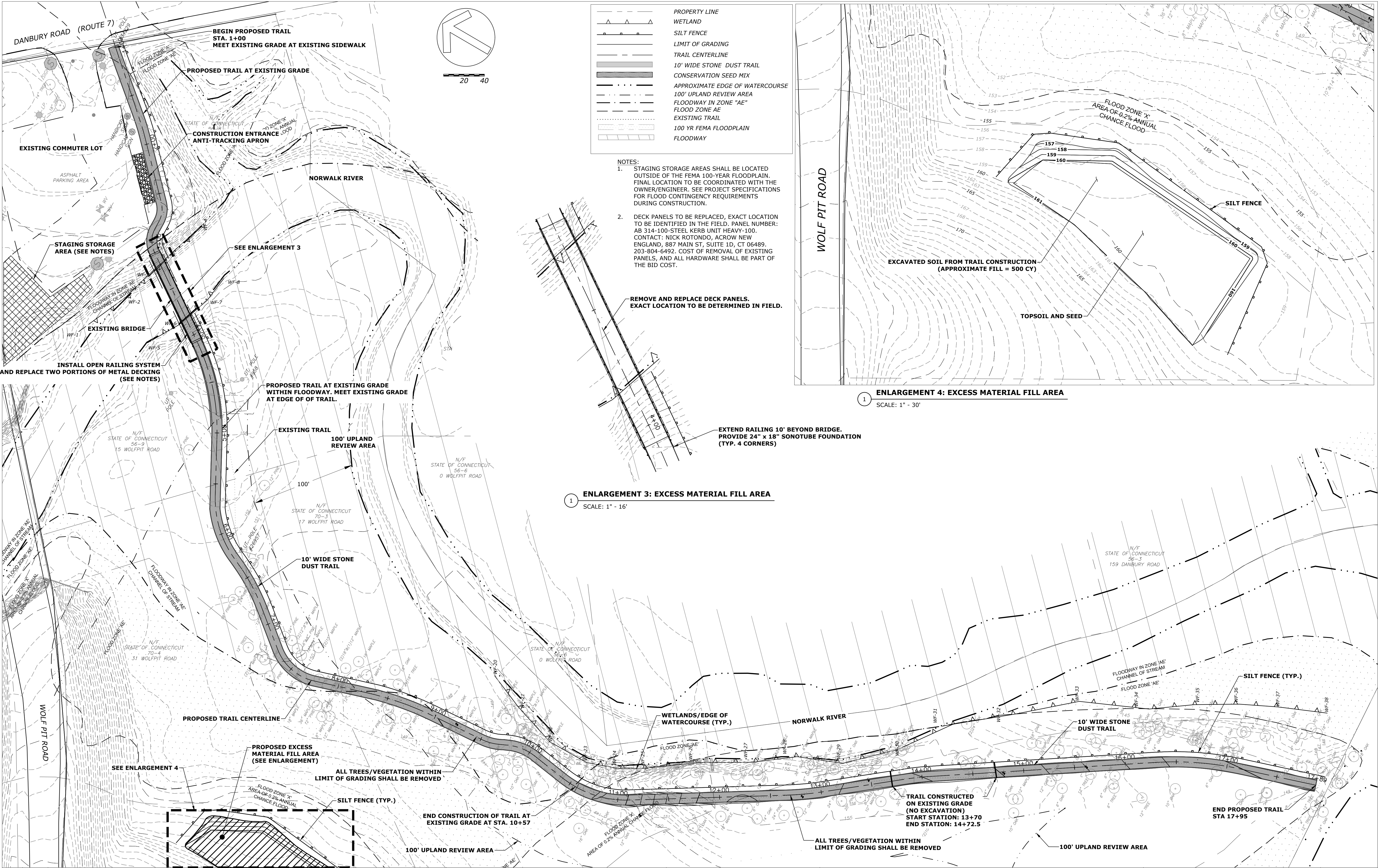
PROJECT NO.

DRAWING NO.

SHEET NO.

PLN-03

[illegible]



1	4/23/20	DEEP FMC Comments	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: M. PATE
CHECKED BY: A. DICAMILLO
SCALE: 1" = 40'

**CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT**

Filename:

Stantec

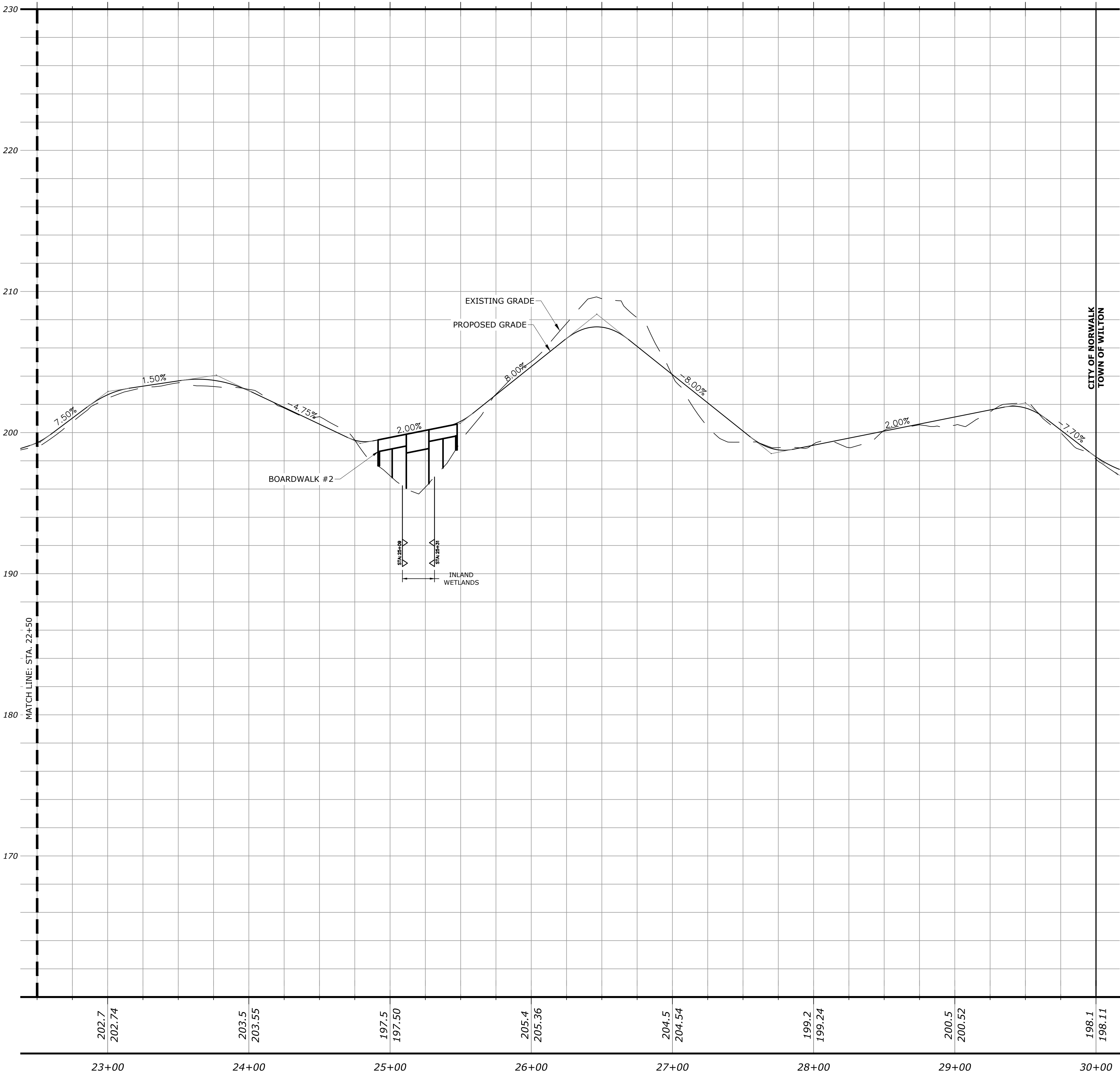
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PROJECT TITLE:
**NORWALK RIVER VALLEY TRAIL
'WIL-WALK'**

CITY:
NORWALK & WILTON

DRAWING TITLE:
TRAIL PLAN

PROJECT NO.
DRAWING NO.
SHEET NO.
PLN-06



REV.	DATE	REVISION DESCRIPTION	SHEET NO.



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CHECKED BY: A. DICAMILLO
SCALE: 1" = 40' H 1" = 4' V

**CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT**

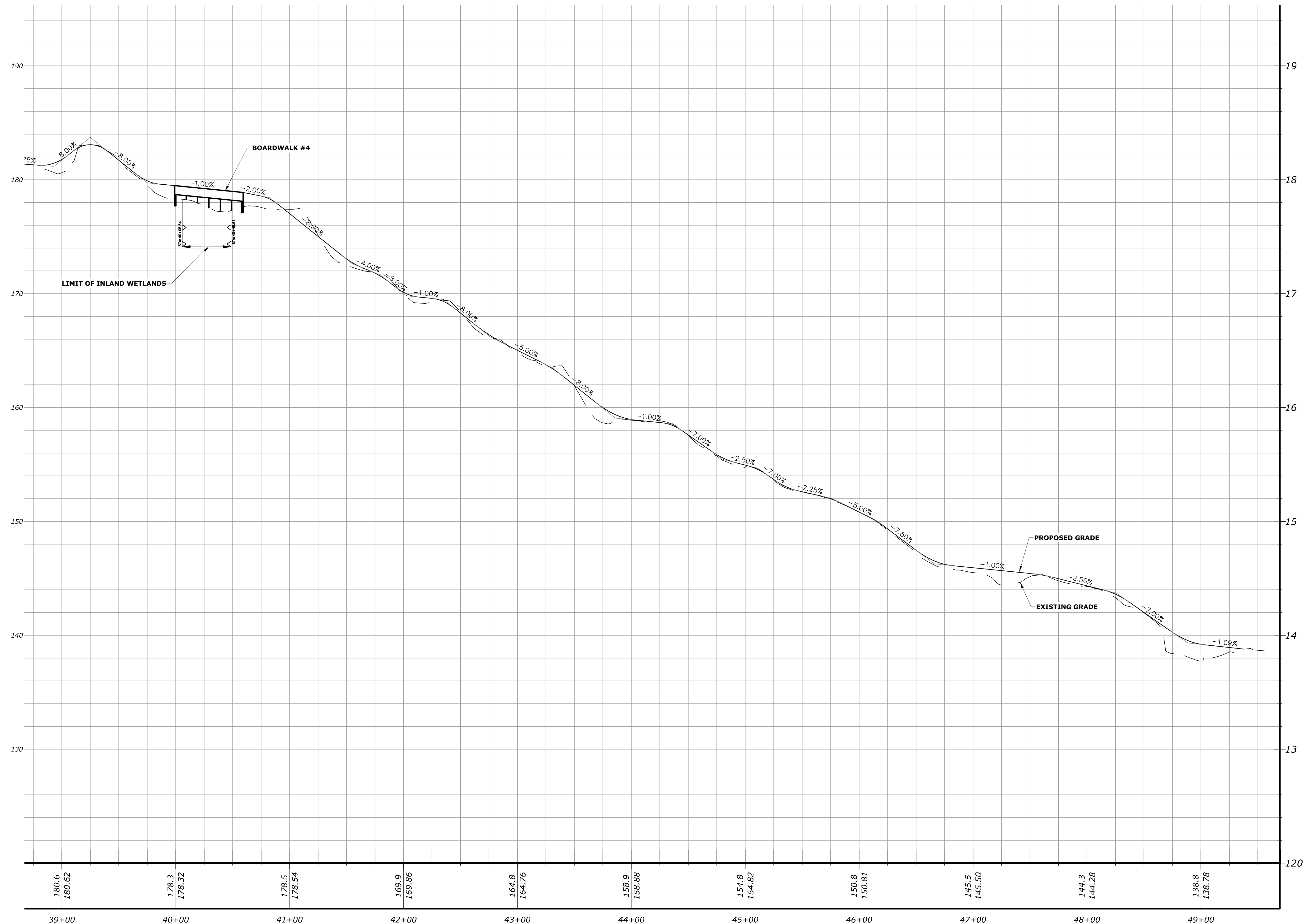
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PROJECT TITLE:

**NORWALK RIVER VALLEY TRAIL
'WIL-WALK'**

CITY:	PROJECT NO.
NORWALK & WILTON	DRAWING NO.
DRAWING TITLE:	SHEET NO.
TRAIL PROFILE	PRO-02



REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER: M. PATE
CHECKED BY: A. DICAMILLO
SCALE: 1" = 40' H 1" = 4' V

CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT

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CITY:

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DRAWING TITLE:

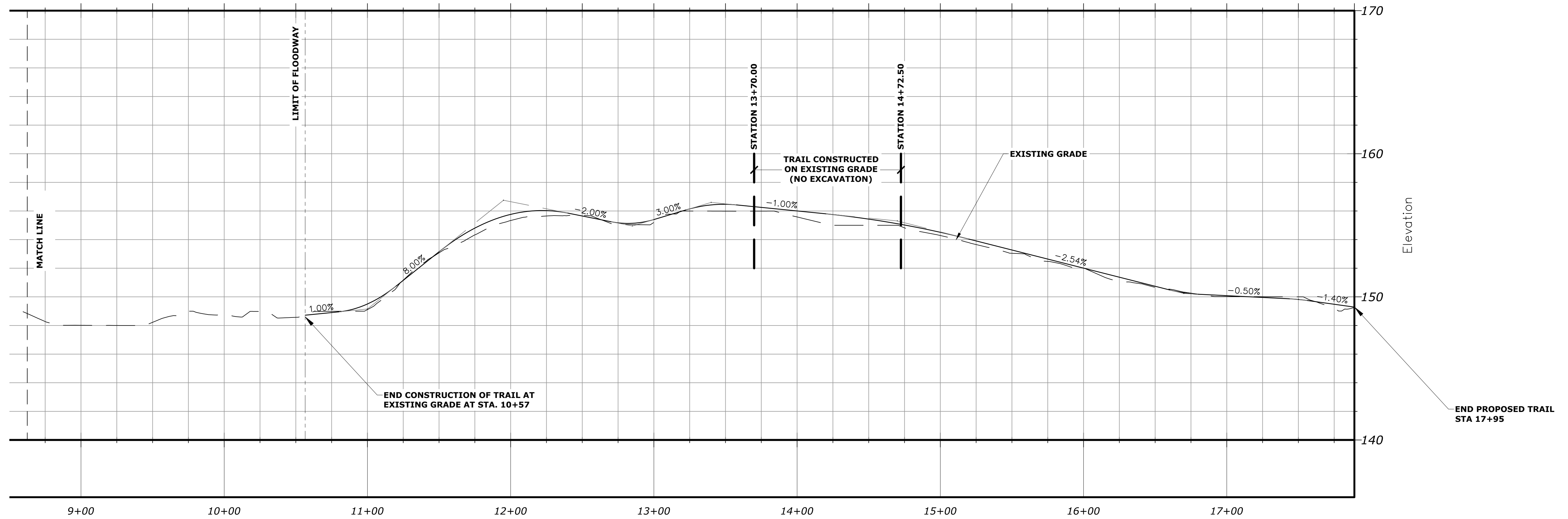
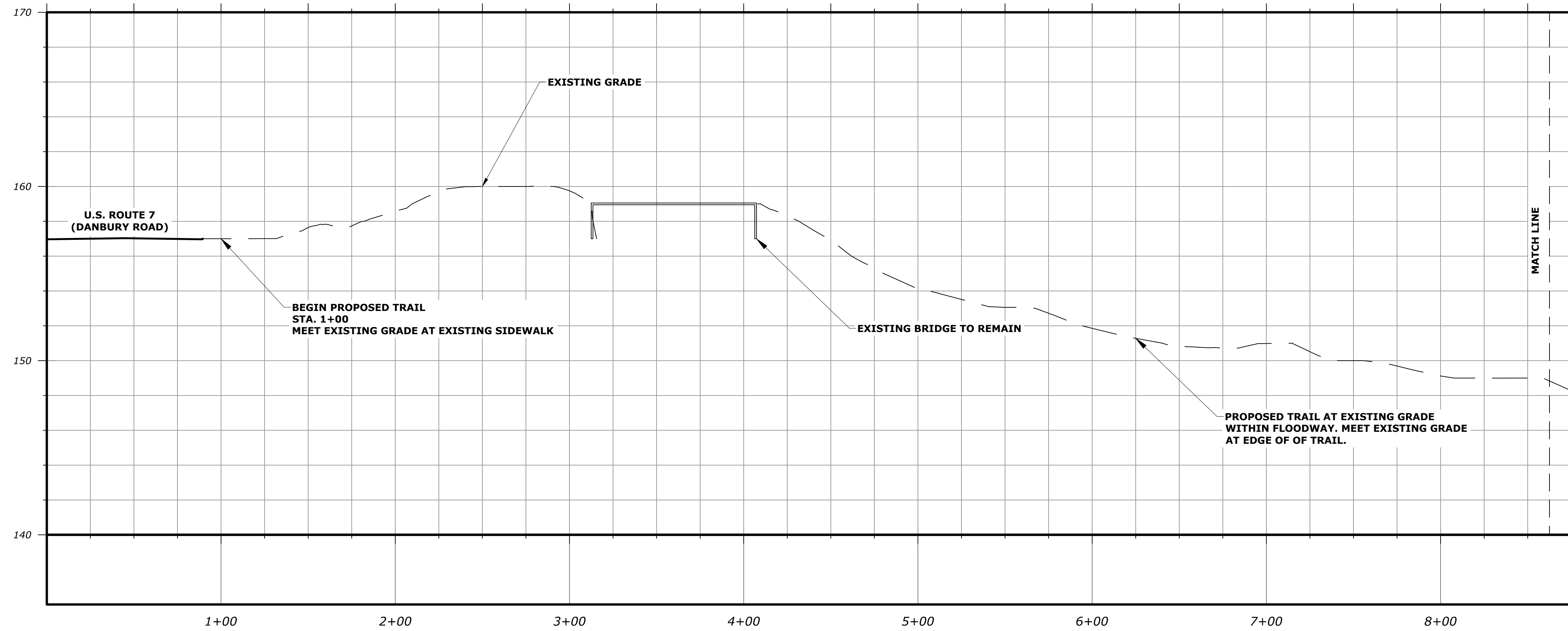
TRAIL PROFILE

PROJECT NO.

DRAWING NO.

SHEET NO.

PRO-04



REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
M. PATE
CHECKED BY:
A. DICAMILLO
SCALE:
1" = 40' H
1" = 4' V

CITY OF NORWALK/
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CONNECTICUT

Filename:



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PROJECT TITLE:

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CITY:

NORWALK & WILTON

DRAWING TITLE:

TRAIL PROFILE

PROJECT NO.

DRAWING NO.

SHEET NO.

PRO-05

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A MULTI-USE TRAIL IN WILTON, CONNECTICUT.

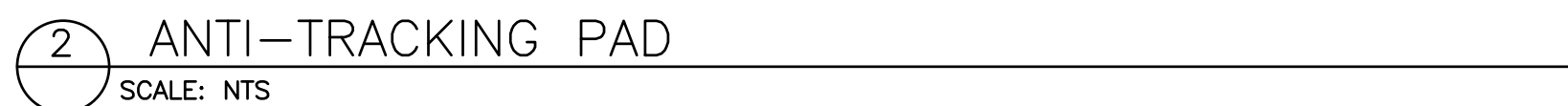
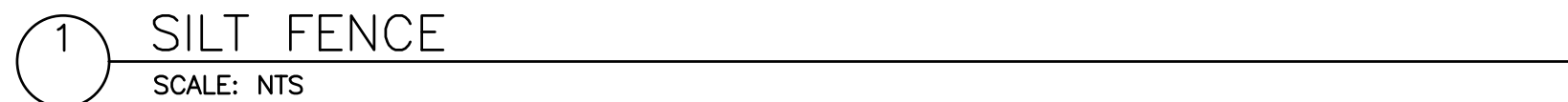
CONSTRUCTION SEQUENCE: THE GENERAL SEQUENCE OF CONSTRUCTION SHALL PROCEED AS FOLLOWS:

- SEDIMENTATION AND EROSION CONTROL NOTES:

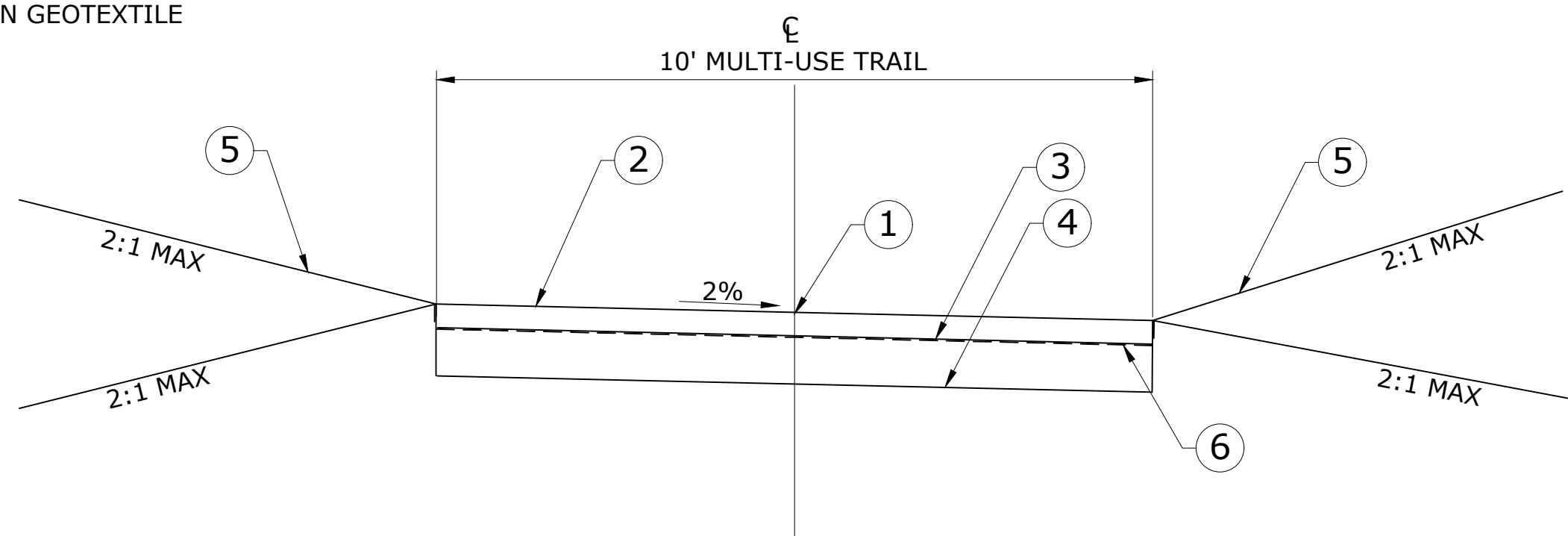
11. TEMPORARY SWALES AND SEDIMENTATION BASINS, IF REQUIRED, MAY BE CONSTRUCTED OF RIP-RAP, MULCH, HAY BALES OR JUTE MESH. PORTLAND CONCRETE OR BITUMINOUS CONCRETE WILL NOT BE ALLOWED.

12. TEMPORARY GRASS SEED SHALL BE PERENNIAL RYE—GRASS (LOLIUM PERENNE) OR AN IMPROVED VARIETY THEREOF, SUCH AS MANHATTAN, HAVING A MINIMUM PURITY OF 98 PERCENT AND A MINIMUM GERMINATION OF 90 PERCENT. THE SEEDING MAY BE ALTERED BY THE ENGINEER IF REQUESTED BY THE CONTRACTOR TO SUIT SPECIAL CONDITIONS OR AREAS.

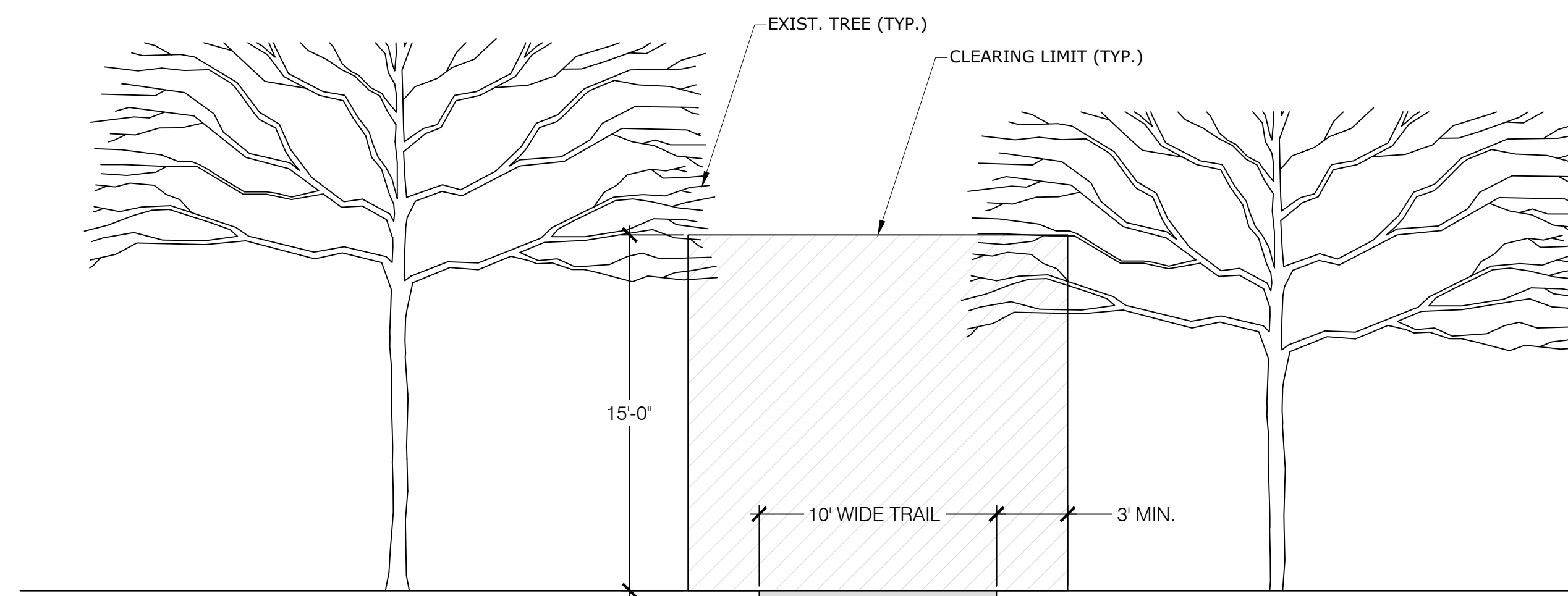
13. AT THE COMPLETION OF THE PROJECT, AND AFTER ALL DISTURBED AREAS ARE STABILIZED REVIEWED AND APPROVED, THE CONTRACTOR SHALL COMPLETELY REMOVE ALL SEDIMENTATION AND EROSION CONTROL MEASURES. SILT FENCING SHALL BE CUT FLUSH WITH THE GROUND AND ANY ACCUMULATED SEDIMENTATION SHALL BE THINLY SPREAD UPON EXISTING GROUND COVER. ALL MULCH, HAY BALES AND RIP-RAP SHALL BE REMOVED FROM THE SITE, UNLESS SPECIFICALLY ORDERED BY THE ENGINEER TO REMAIN IN PLACE.

[illegible]

- ① POINT OF APPLICATION OF GRADE
- ② 4" STONE SCREENINGS (STONEDUST PATHWAY)
- ③ 6" GRANULAR FILL (CTDOT FORM 817 M.02.06, GRADING A)
- ④ EXISTING SUBGRADE
- ⑤ CONSERVATION SEED MIX
- ⑥ NON-WOVEN GEOTEXTILE



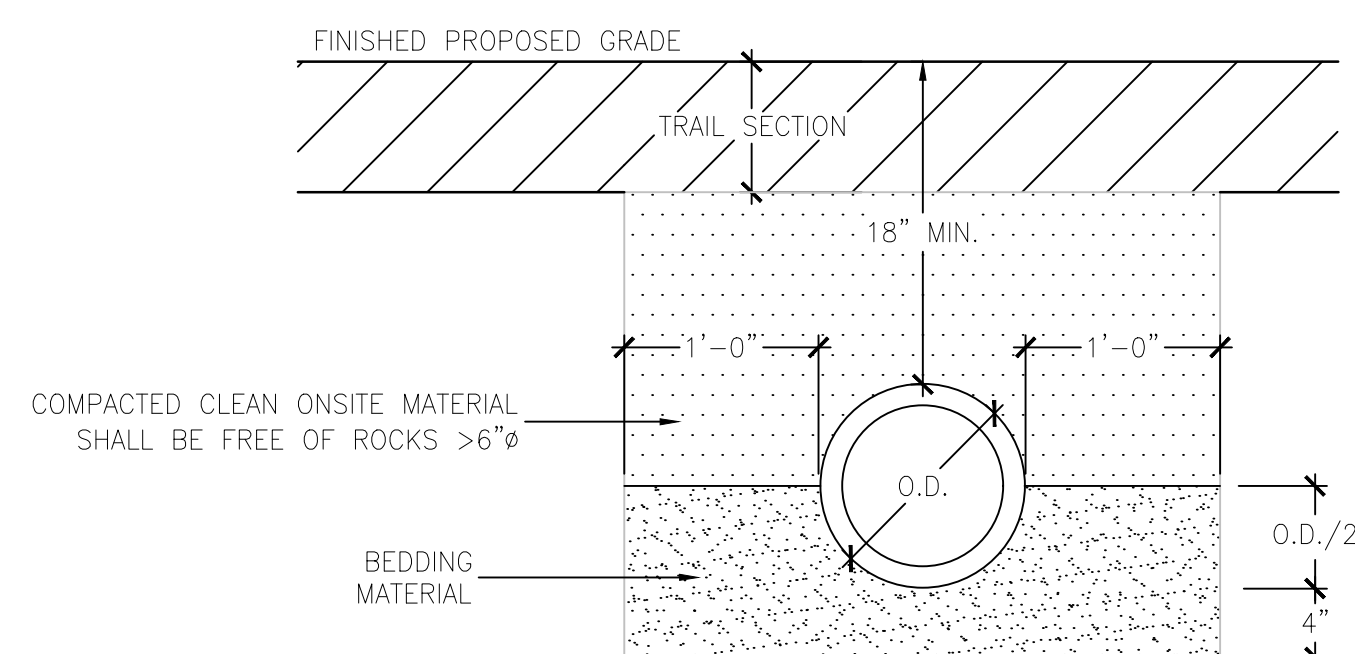
1 TYPICAL TRAIL SECTION
NTS



NOTES:

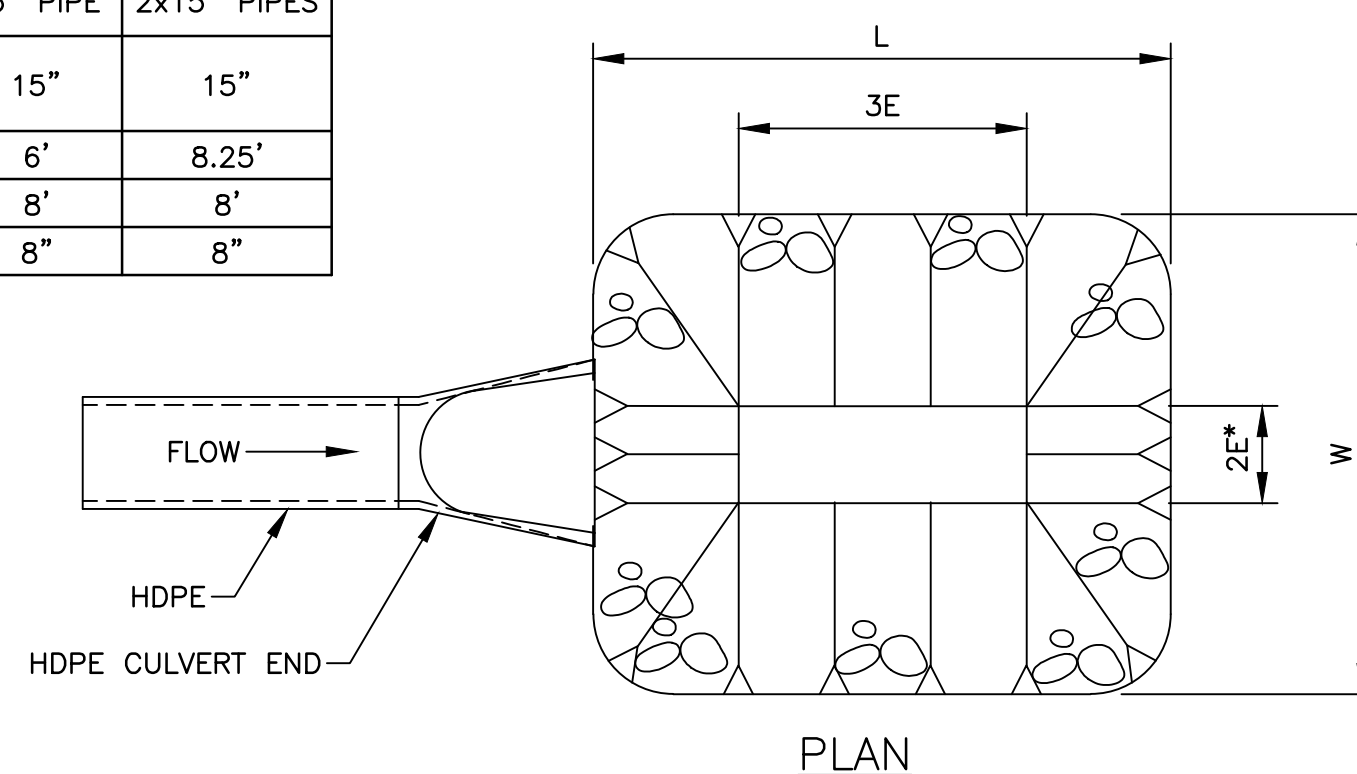
1. CONTRACTOR IS RESPONSIBLE FOR TRIMMING TREES TO PROVIDE A MINIMUM OF 15 FEET OF VERTICAL CLEARANCE FROM THE FINISHED GRADE OF THE GREENWAY.
2. HORIZONTALLY THE CONTRACTOR SHALL REMOVE ALL VEGETATION WITHIN LIMIT OF WORK SHOWN ON THE PLANS.
3. CUT WOOD, VEGETATION & STUMPS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL & ENVIRONMENTALLY SAFE MANNER.

2 TYPICAL TRAIL CLEARING LIMITS
SCALE: NTS

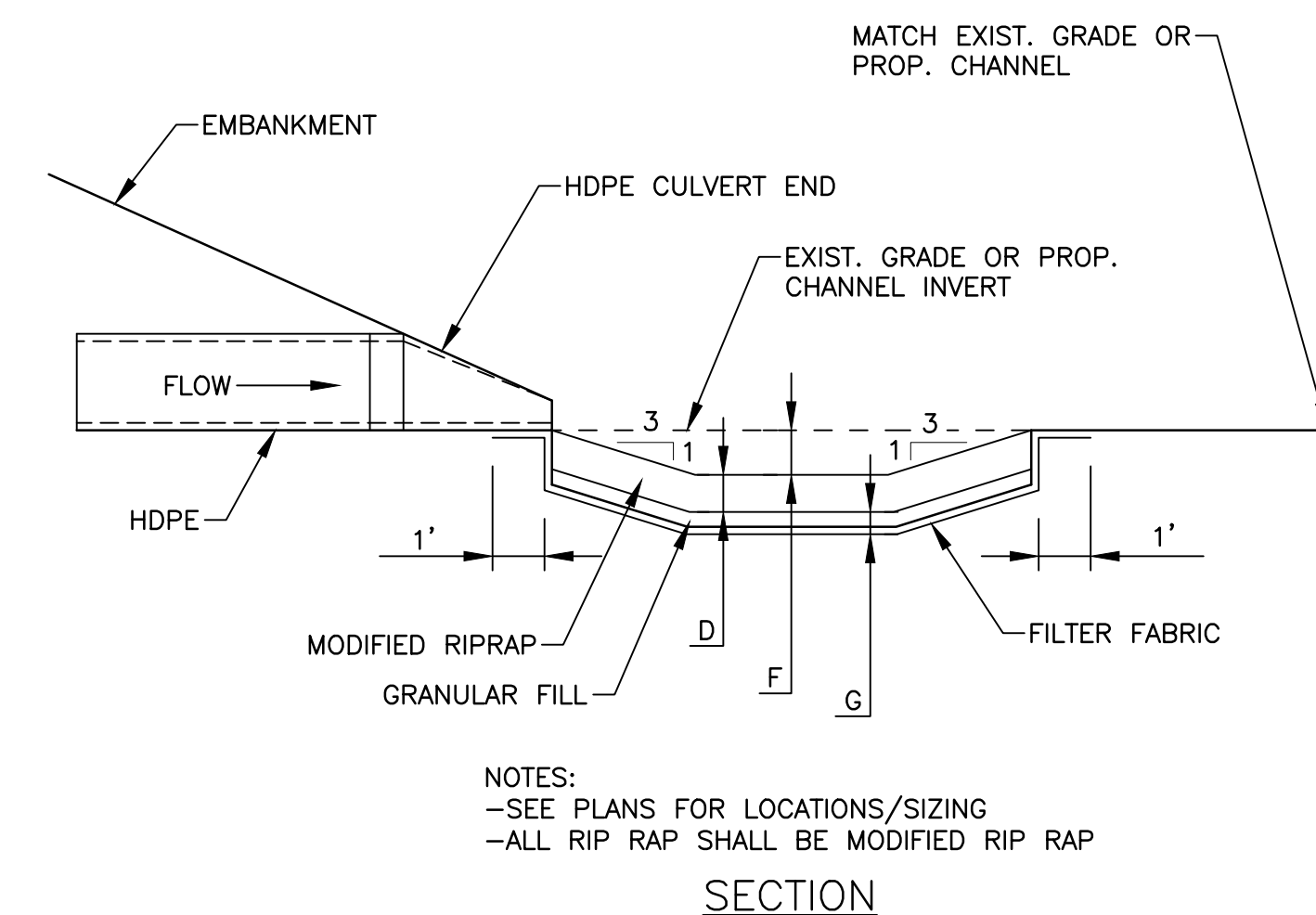


3 STORM PIPE TRENCH
SCALE: NTS

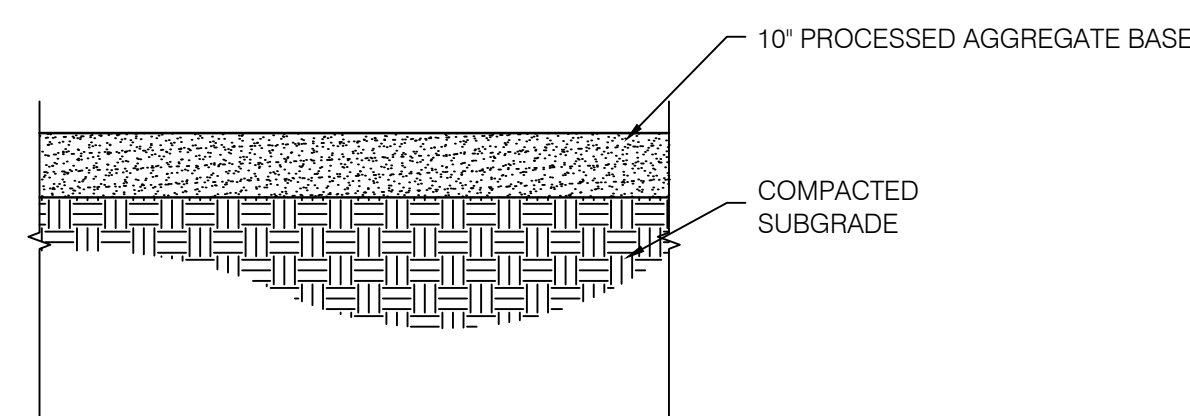
SCOUR HOLE DIMENSIONS			
VALUES	12" PIPE	15" PIPE	2x15" PIPES
E	12"	15"	15"
W	5'	6'	8.25'
L	6'	8'	8'
F	6"	8"	8"



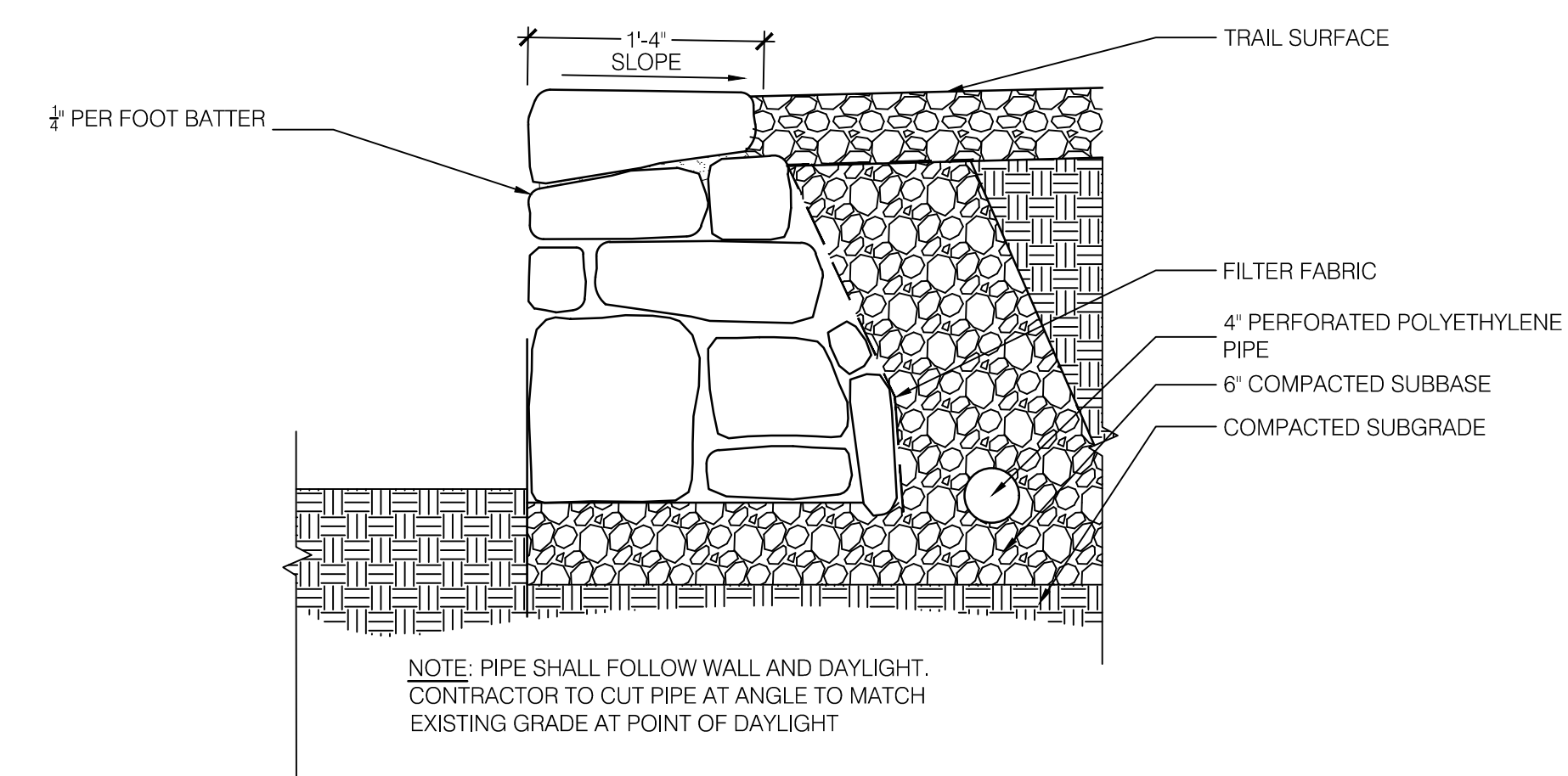
RIRPAP DEPTH (D)	
VALUES	MODIFIED
D	12"
G	6"



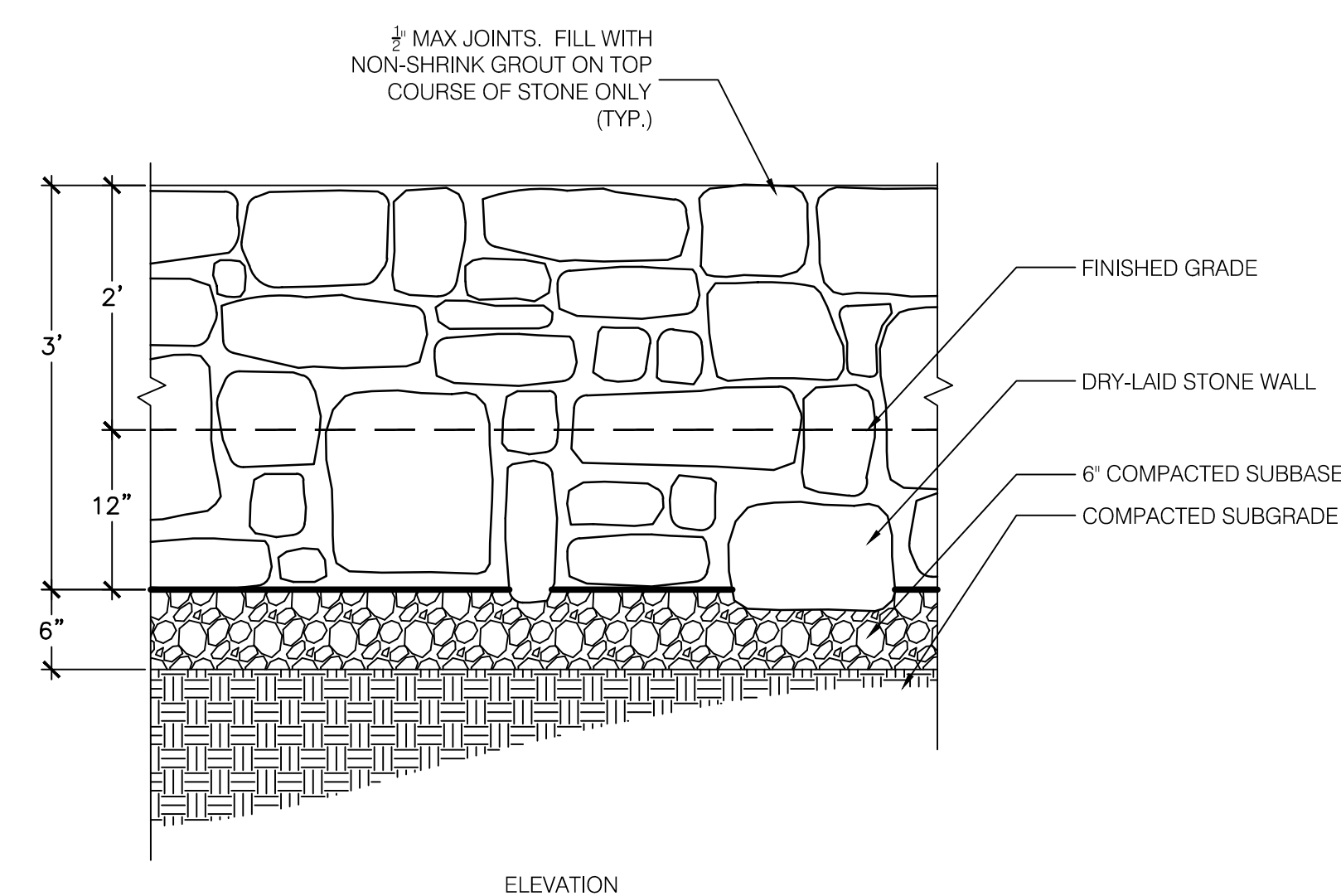
4 GRAVEL PARKING LOT
SCALE: NTS



5 PRE-FORMED SCOUR HOLE
SCALE: NTS



6 CRIBBING STONE WALL
SCALE: NTS

[illegible]

DESIGNER/DRAFTER:	M. PATE
CHECKED BY:	A. DICAMILLO
SCALE:	AS NOTED

**CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT**



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PROJECT TITLE:

NORWALK RIVER VALLEY TRAIL 'WIL-WALK'

	CITY:
--	-------

NORWALK & WILTON

DRAWING TITLE:

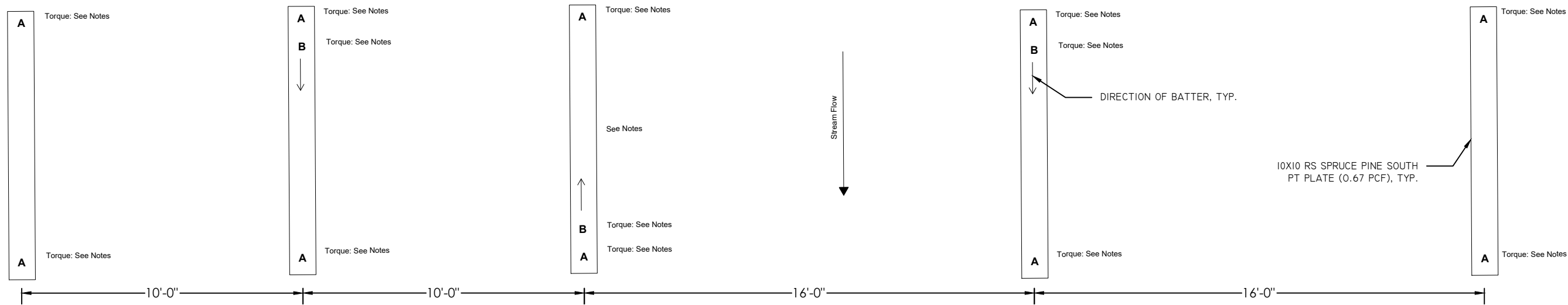
DETAILS

PROJECT NO.

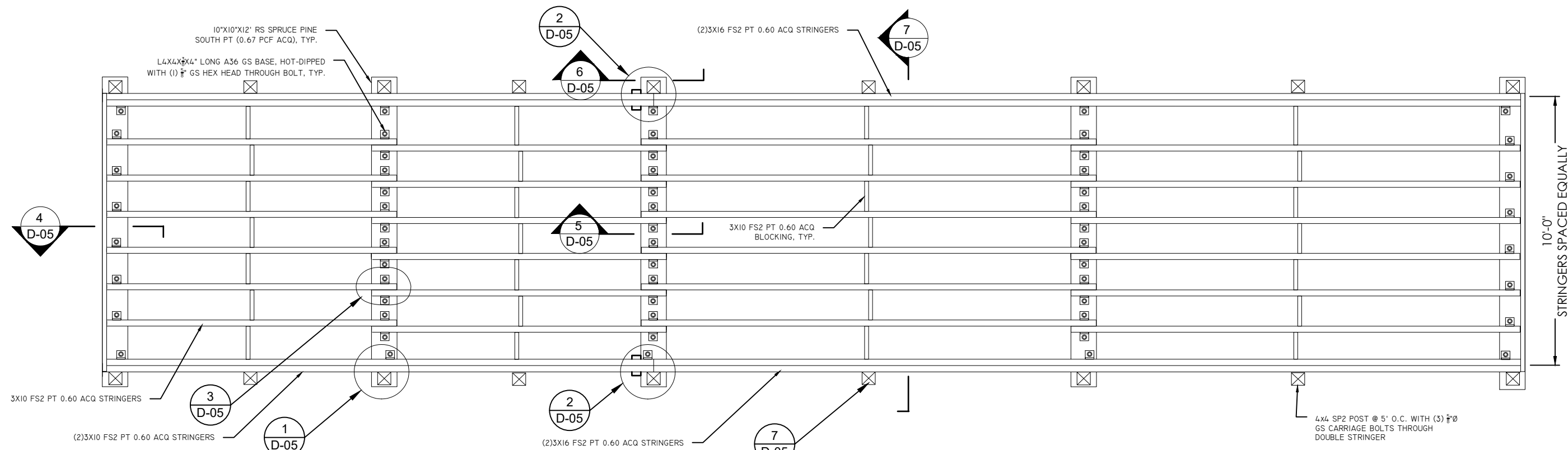
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SHEET NO.

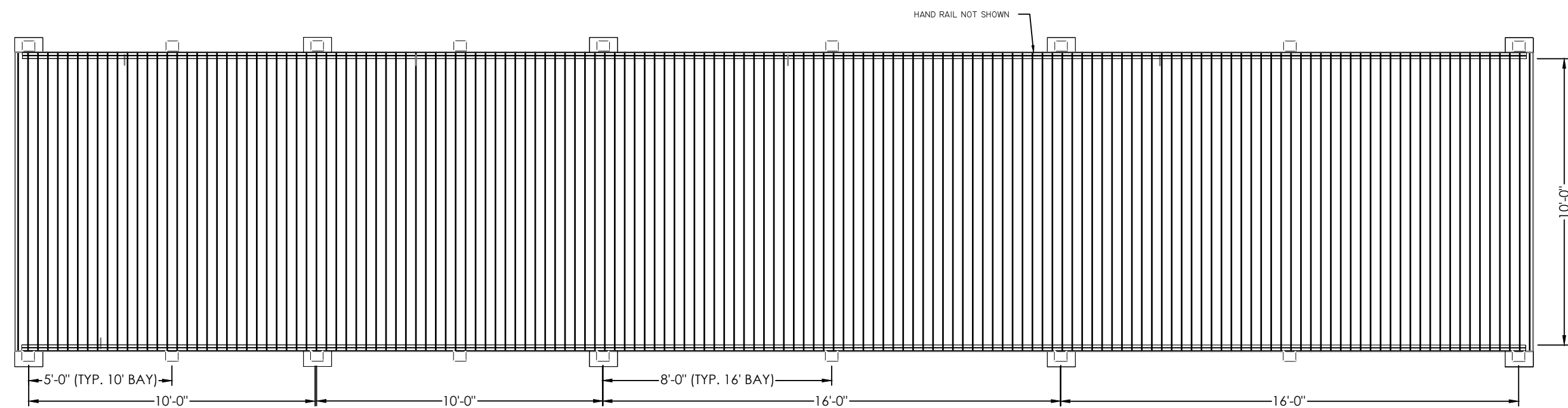
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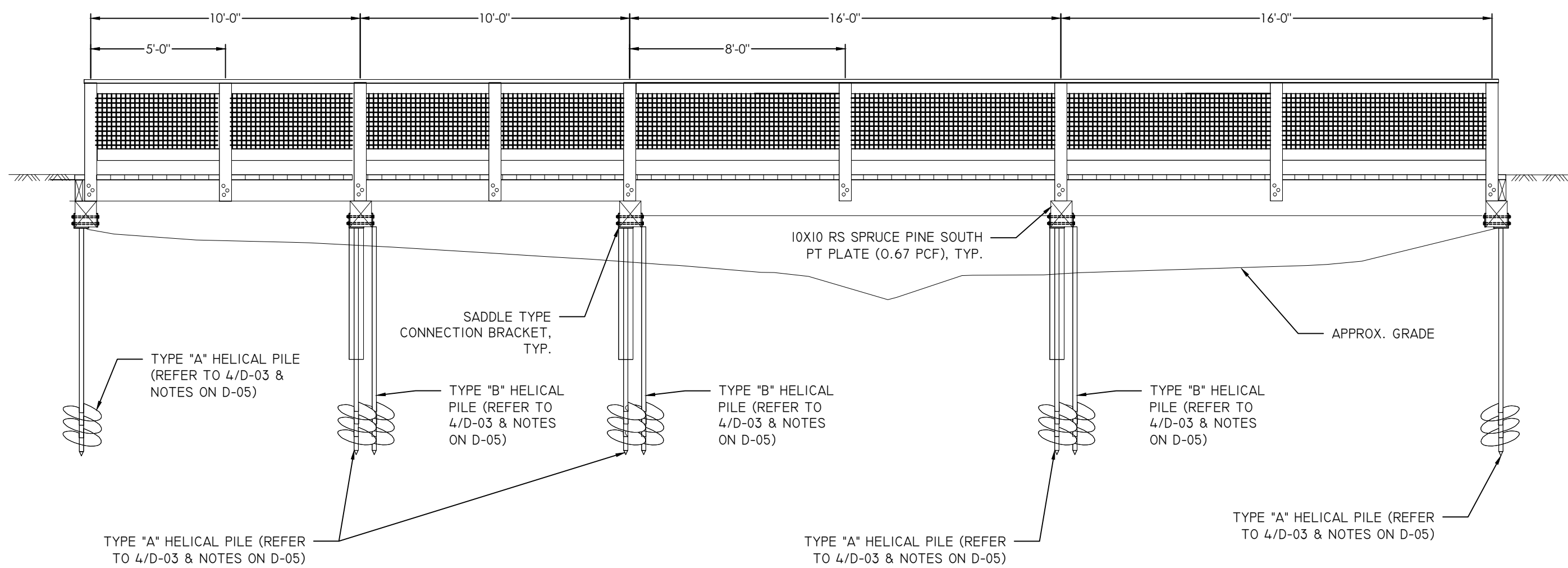
4 BOARDWALK #2 HELICAL PILE LAYOUT
SCALE: $\frac{1}{4}'' = 1'-0''$



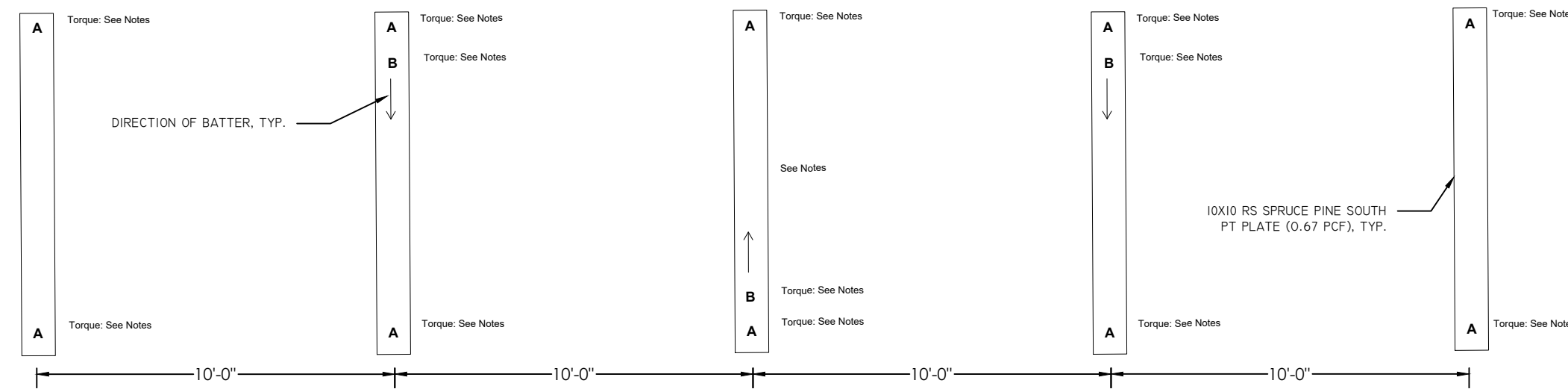
3 BOARDWALK #2 DECK FRAMING PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$



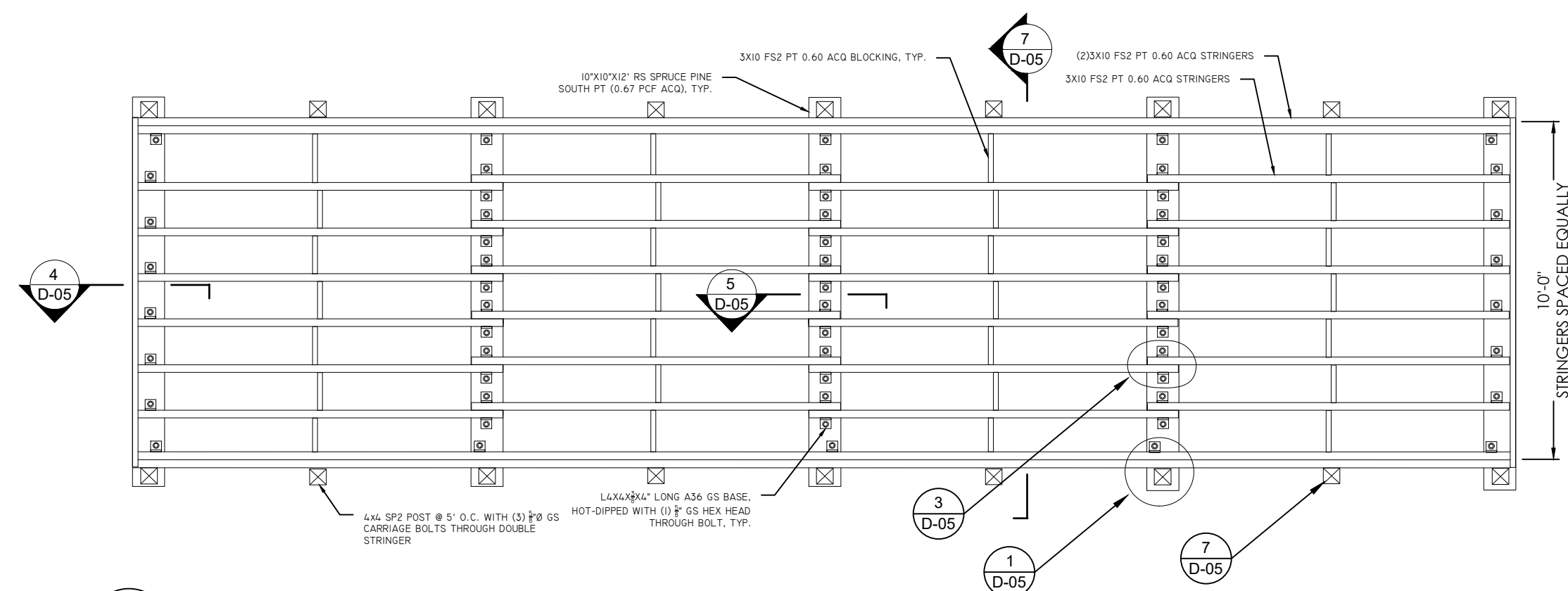
2 BOARDWALK #2 DECK PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$



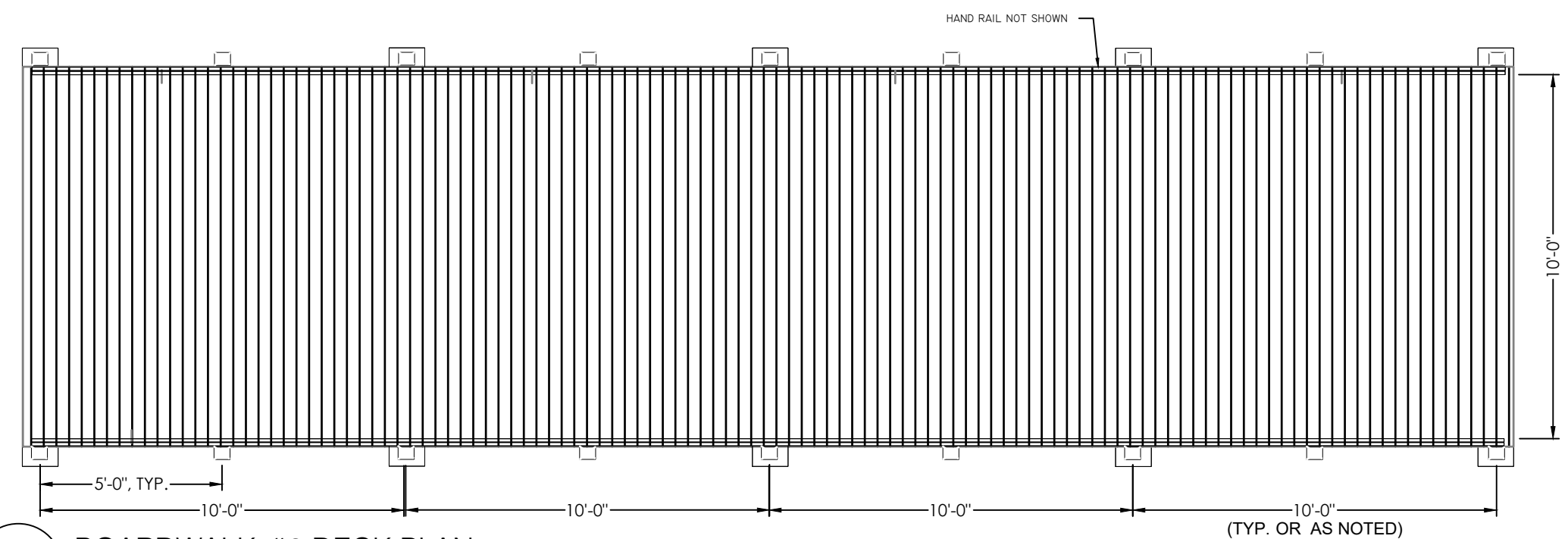
1 BOARDWALK #2 ELEVATION
SCALE: $\frac{1}{4}'' = 1'-0''$



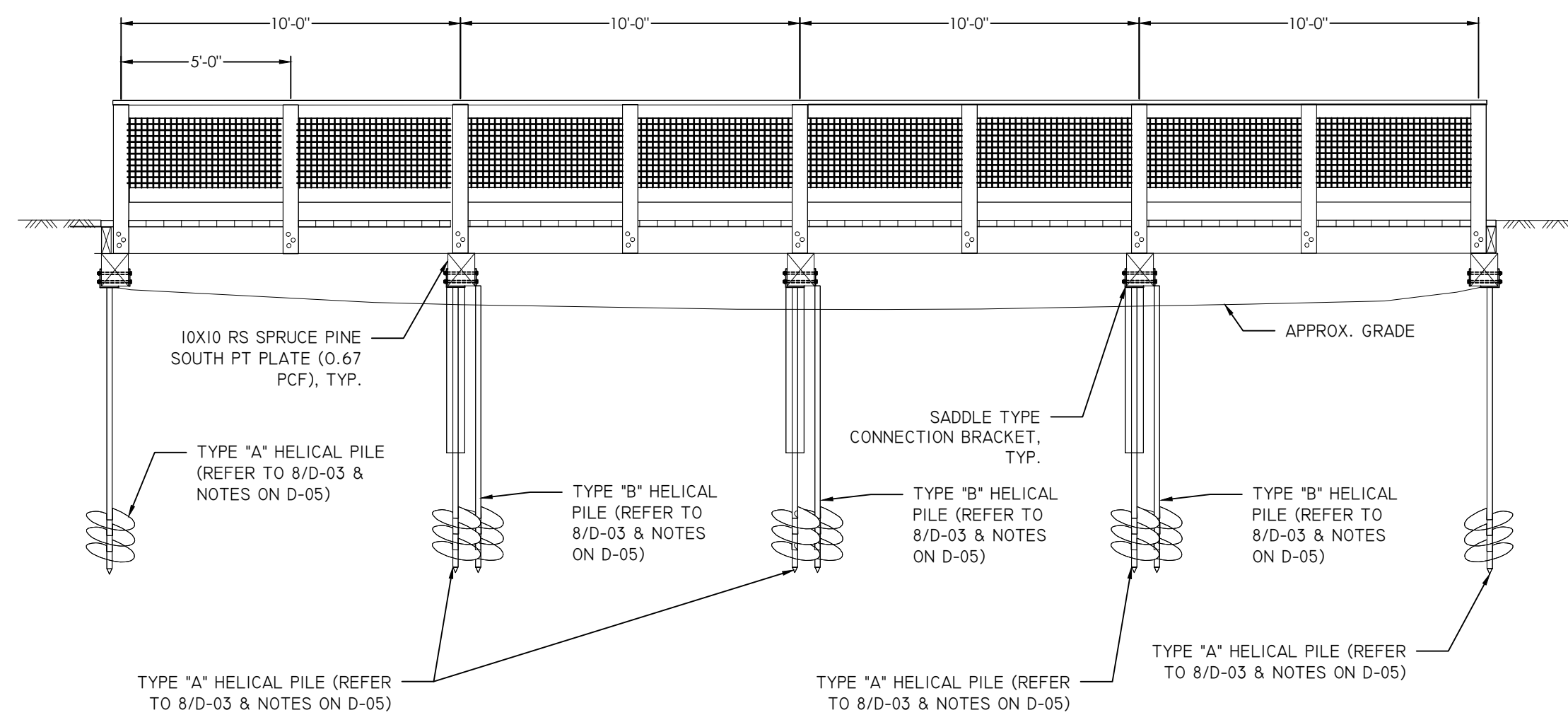
8 BOARDWALK #3 HELICAL PILE LAYOUT
SCALE: $\frac{1}{4}'' = 1'-0''$



7 BOARDWALK #3 DECK FRAMING PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$



6 BOARDWALK #3 DECK PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$



5 BOARDWALK #3 ELEVATION
SCALE: $\frac{1}{4}'' = 1'-0''$

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
M. PATE
CHECKED BY:
A. DICAMILLO
SCALE:

CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT

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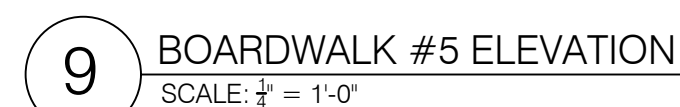
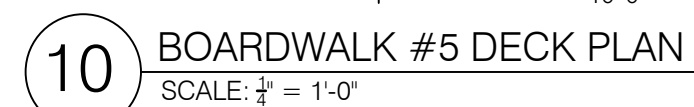
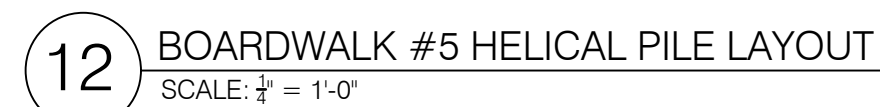
BOARDWALK DETAILS

PROJECT NO.

DRAWING NO.

SHEET NO.

D-03



PROJECT NO.	
DRAWING NO.	
SHEET NO.	D-04

GENERAL NOTES

1. **SCOPE OF WORK:**
- 1.1 Establish sedimentation & erosion (S&E) controls in accordance with permit approvals and civil plans.
- 1.2 Construction of intermediary-span pedestrian bridge.
- 1.3 Stabilize site and remove S&E controls following 1-year of substantial completion and approval by Engineer of Record.
2. **SEQUENCE OF ACTIVITIES.**
- 2.1 Call Before You Dig.
- 2.2 Establish sedimentation and erosion controls.
- 2.3 Shakeout, layout and install helical piles.
- 2.4 Frame girders, stringers and posts, and call for Engineering inspection.
- 2.5 Frame, trim and finish deck, rails and panels, and call for final Engineering inspection. Substantial completion.
- 2.6 Final clean-up, restorations of site, removal of sedimentation and erosion controls, and Owner's sign-off on work. Final completion.
- 2.7 TIME IS OF THE ESSENCE. All Work under this agreement shall be performed during dry, stable soil season.

3. **EXISTING UTILITIES.** Call Before You Dig (800) 922-4455 for start-of-work date. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place. Arrange with utility companies to shut off indicated utilities. Owner will arrange to shut off indicated utilities when requested by Contractor. Locate, identify, and disconnect utilities indicated to be abandoned in place. Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated. Notify Engineer not less than five days in advance of proposed utility interruptions. Do not proceed with utility interruptions without Engineer's written permission. Excavate for and remove underground utilities indicated to be removed.

4. **SOILS MATERIALS.**

- 4.1 Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations on site.
- 4.1.1 Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups, free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
- 4.1.2 Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
- 4.2 Base Material: Unless otherwise specified as Processed Aggregate Base Course, naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand. Sub-base material shall meet the requirements set forth in ConnDOT Form 816, Section M.02.02.
- 4.3 Processed Aggregate Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, natural or crushed sand. Processed aggregate shall meet the requirements set forth in ConnDOT Form 816, Sections M.05.01 through M.05.03.
- 4.4 Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; with 100 percent passing a 3/8-inch sieve and not more than 10 percent passing a No. 200 sieve. Bedding shall meet the requirements set forth in Connecticut DOT Form 816, Section M.08.01-21. G Sand: ASTM C 33; fine aggregate.

4.5 Utility Company Trenches: in accordance with utility company requirements.

5. **SUBBASE AND BASE COURSES UNDER WALKWAYS.** Place sub-base course and base course on sub-grades free of mud, frost, snow, or ice. On prepared sub-grade, place sub-base course and base course under pavements and walks as follows:

- 5.1.1 Install geotextile on prepared sub-grade according to manufacturer's written instructions, overlapping edges.
- 5.1.2 Place base course material over sub-base course wearing surface.
- 5.1.3 Shape sub-base course and base course to required crown elevations and cross-slope grades.
- 5.1.4 Place sub-base and base course 6" or less in compacted thickness in a single layer.
- 5.1.5 Place sub-base and base that exceeds 6" in compacted thickness.

5.2 Compact sub-base course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

6. **TEMPORARY EROSION AND SEDIMENTATION CONTROL.** At a minimum comply with these plans, CT-DEEP guidelines, and guide specifications. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent areas.

6.1 Inspect, maintain, and repair erosion and sedimentation control measures during construction until permanent vegetation has been established.

6.2 Remove erosion and sedimentation controls to restored and stabilized areas in accordance with permit requirements or a minimum of 1-year from the date of substantial completion, whichever is earlier.

6.3 Material Standards and Workmanship: Equivalent to State of Connecticut "Guidelines for Soil Erosion and Sediment Control" 2002 edition as amended.

6.4 Install sediment and erosion controls, such as silt fences and filter socks, prior to commencing soil disturbance activities. All sediment and erosion controls must be maintained in good condition until all excavations in the vicinity have been backfilled and paved or vegetated.

6.5 Contractor is to provide emergency response hay bails and filter socks at arms-reach during all times of construction.

6.6 Before anticipated storm events of 0.1 inches rainfall or more, and at least once per four calendar days, all sediment and erosion controls are to be inspected by the Contractor. Any corrective action to mitigate environmental concerns must be completed at that time.

CARPENTRY NOTES

1. **GENERAL.** Contractor shall provide a full-time, on-site General Superintendent throughout framing of the bridge. General Superintendent shall be approved by the Owner. Contractor shall coordinate two Engineer inspections of framing: 1) rough framing of girders, stringers, and posts; and 2) final inspection of framing and sign-off on corrected punchlist items. Provide Engineer with three working days notice of each inspection.

2. **LUMBER MANUFACTURERS**

Boise Cascade Corporation,
Georgia-Pacific Corporation,
Louisiana-Pacific Corporation.

3. **METAL FRAMING ANCHOR MANUFACTURERS**

Alpine Engineered Products, Inc.
Cleveland Steel Specialty Co.
Harlen Metal Products, Inc.
KC Metals Products, Inc.
Silver Metal Products, Inc.
Simpson Strong-Tie Company, Inc.
Southeastern Metals Manufacturing Co., Inc.
United Steel Products Company, Inc.

4. **LUMBER GRADE.** Stack lumber, plywood, and other panels; place spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings. Conform to DOC PS 20 and applicable rules of lumber grading agencies certified by the American Lumber Standard Committee.

4.1 Lumber Standards Committee Board of Review. Factory mark each piece of lumber with grade stamp of grading agency. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber. Provide dressed lumber, S4S, unless otherwise indicated. Provide dry lumber with 19 percent maximum moisture content at time of dressing for 2-inch nominal thickness or less, unless otherwise indicated.

5. **PRESERVATIVE TREATMENT BY PRESSURE PROCESS.** Comply with AWPAC C2 except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPAC C31 with inorganic boron (SBX). Preservative Chemicals: Acceptable to authorities having jurisdiction and one of the following:

5.1 Ammoniacal copper zinc arsenate (ACZA).

5.2 Ammoniacal, or amine, copper quat (ACQ).

5.3 Contractor may submit alternate species and treatments to Engineer for approval.

5.4 All fasteners shall have a hot-dip zinc coating complying with ASTM A 153/A 153M.

6. **FASTENERS.**

6.1 Deck screws: (2) black TXB biscuit style hidden deck fastener w/SS screws per runner to diaphragm-board connection. Contractor may submit alternate deck face-screw assembly to Engineer for Approval.

6.2 Rim to stringers: (3) HeadLOK 8" FMLHGM012-xxx per stringer to rim connection.

6.3 Posts: (3) 5/8" GS carriage bolts. Steel bolts complying with ASTM A 325, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.

7. **GUARD RAIL AND PANELS.** Contractor to provide proposed hand-rail and panel submittal to Engineer for review and approval.

8. **FINISH.** Bevel or roundover all exposed corners and edges smooth, sanded, and free of splinters. Apply Sikkins CETOL SPD Natural deck stain to deck, panels, rails, and posts. Contractor may submit alternate stains to Owner for approval.

9. **WARRANTY.** Contractor shall furnish 1-year warranty on all materials and workmanship.

HELICAL PILE NOTES

1. **GENERAL.** All piles shall be helical Maclean-Exile or Chance Helical Products or equivalent as approved by the Engineer. Contractor shall submit performance specifications for alternate piles. All helical piles are to be installed by a factory certified installer, otherwise a certified technician from premium technical services must be on site at all times to witness pile installation. All helical piles shall be ICC approved.

1.1 Manufacturer to have in effect industry recognized written quality control for all materials and manufacturing.

1.2 All welding to be performed by welders certified under section 5 of the AWS Code D1.1.

2. **TYPE A PILES.** For type "A" piles (vertically) helical pile lead sections shall be 1-3/4" round corner square shaft (SS175) ASTM A193-GR B7 1045 fy 60 ksi and a 8", 10" and 12" diameter helix. Lead sections shall be 7' long. Piles shall be installed to a minimum depth of 8' and a minimum torque of 6,000 ft-lbs. Pile shall be terminated with a walkway support bracket. Maximum torque shall not exceed 8,000 ft-lb unless otherwise permitted by the Engineer.

3. **TYPE B PILES.** For type "B" piles (battered) helical pile lead sections shall be model 1.75-81012-S7 with a 1.75" round corner squared shaft and a 8", 10" and 12" diameter helix. Lead sections shall be 7' long. Helix pile extension shall be 1.75" RCS shaft 5, 7 or 10' long depending on vertical clearance. Piles shall be installed on a 30-deg angle to a minimum length of 8' and a minimum torque of 4,000 ft-lb. Type-BP designates the 30-deg batter oriented perpendicular to structural member to which it is fastened and in the direction shown by the adjoining arrow. Type-BH designates the 30-deg batter oriented parallel to structural member to which it is fastened and in the direction shown by the adjoining arrow. Pile shall be terminated with a Williams bar adapter. Maximum torque shall not exceed 6,800 ft-lbs.

4. **GALVANIZATION.** Helical piles, extensions and appurtenances shall be hot-dipped galvanized steel in accordance with ASTM A153 (latest revision) and ESR-3032.

5. **PILE CERTIFICATION.** All pile installation operations shall be supervised by a licensed Engineer. The inspector shall keep a complete record of the pile installation operation.

5.1 If the minimum torque requirement has not been satisfied at the minimum depth level, the Contractor shall have the following options:

- 5.1.1 Install the pile deeper using additional extensions until the specified torque level is obtained.
- 5.1.2 Remove the existing pile and install a pile with larger and/or more helices. The revised pile shall be installed beyond the termination depth of the original pile, as directed Engineer.
- 5.1.3 Add additional piles as required by the Engineer of record.
- 5.1.4 Under the direction of the Engineer, reduce the size of the helix as required to achieve the minimum depth while still achieving the minimum torque.

6. **FASTENERS, SADDLES, SEATS, AND ASSEMBLIES.** Contractor shall submit brackets and assemblies to Engineer for approval. All brackets and assemblies shall meet or exceed pile rating.

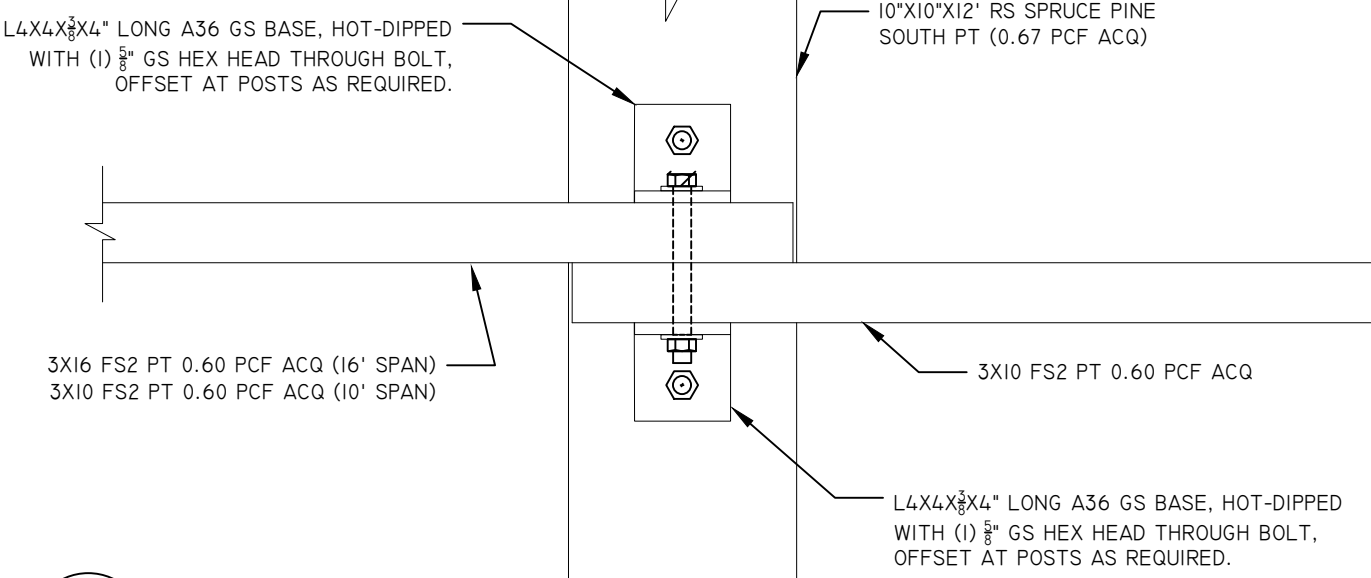
6.1 Contractor shall submit fastening plan and details to Engineer for review and approval. Fasteners may be fabricated of A36 steel and shall be hot-dipped galvanized in accordance with the provisions of the helical piles. All changes in pile location must be approved by the Engineer.

6.2 The helical pile shall be connected to the structure using an Engineer approved steel bracket or slab-supporting channel. These connection devices shall be capable of safely transferring the structural loads to the helical pile.

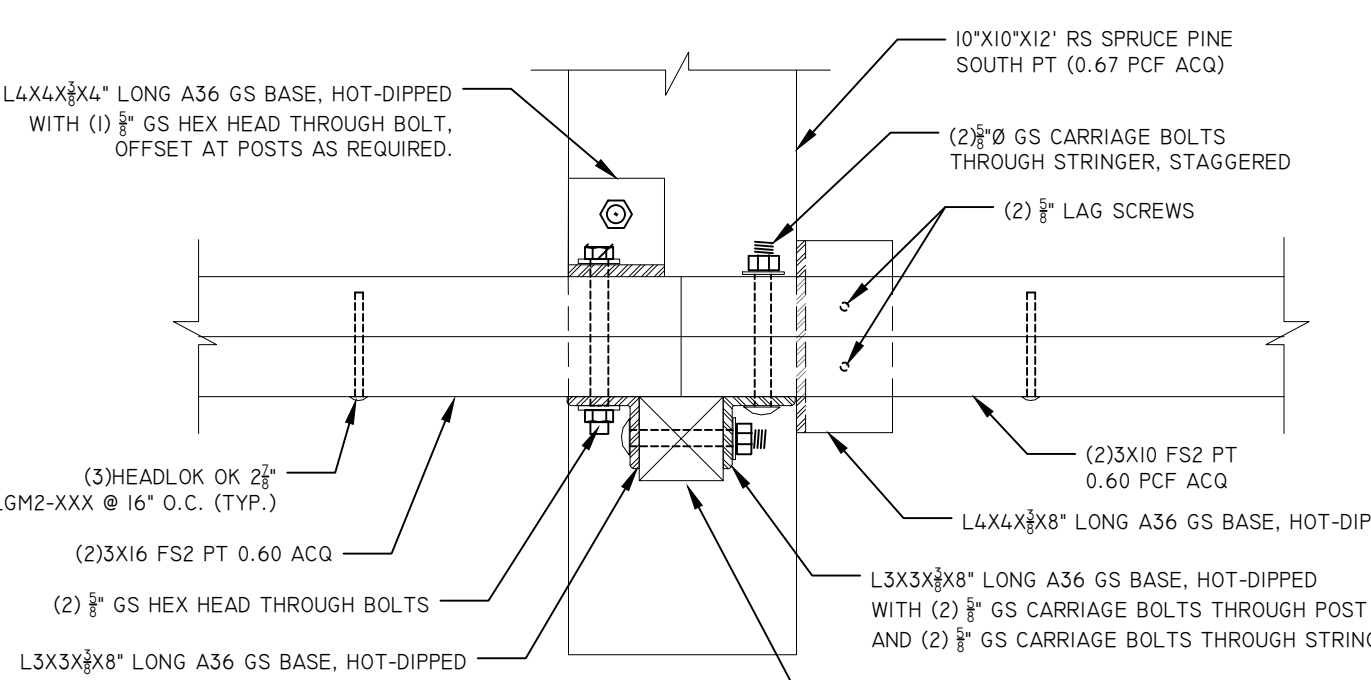
7. **UNDERGROUND OBSTRUCTIONS.** If underground obstructions are encountered during installation, the Contractor shall have the option of removing the obstruction if possible or relocating the pile with the Engineer's approval. The latter option may require the relocation of adjacent piles.

8. **RECORD KEEPING.** These records shall include, but are not limited to the following:

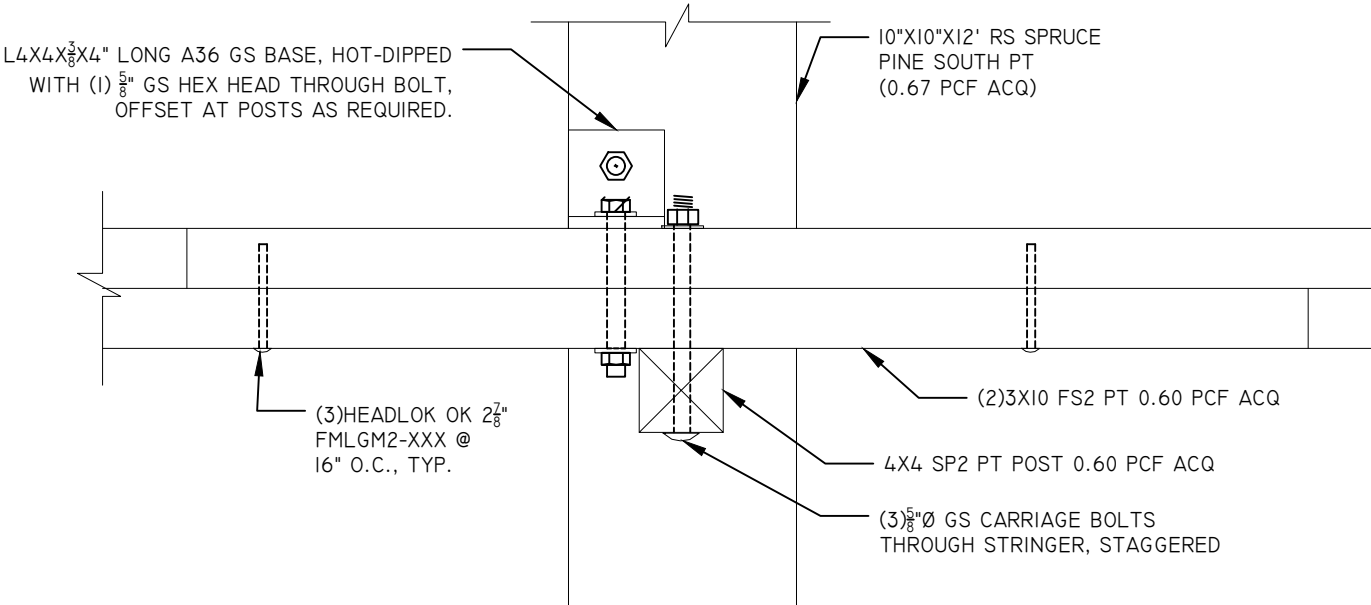
- 8.1 Project name and location.
- 8.2 Contractor's corporate contact information and job foreman.
- 8.3 Date and time of installation(s).
- 8.4 Make and model of the equipment used for installation.
- 8.5 In tabular form: Contractor is responsible for keeping written installation records shall be obtained for each helical pile.
- 8.5.1 location, reference number;
- 8.5.2 description of lead section and extensions for each pile;
- 8.5.3 overall depth of installations referenced from bottom of grade beam or footing;
- 8.5.4 installation speed (rpm) of the helical pile;
- 8.5.5 abrupt changes in installation torque; and
- 8.5.6 torque reading for the last 3-feet of installation if practical or terminal torque shall be recorded as a minimum.
- 8.5.7 Other relevant information pertinent to the physical condition, position respect to plan and depth, and rating of the as-built pile.



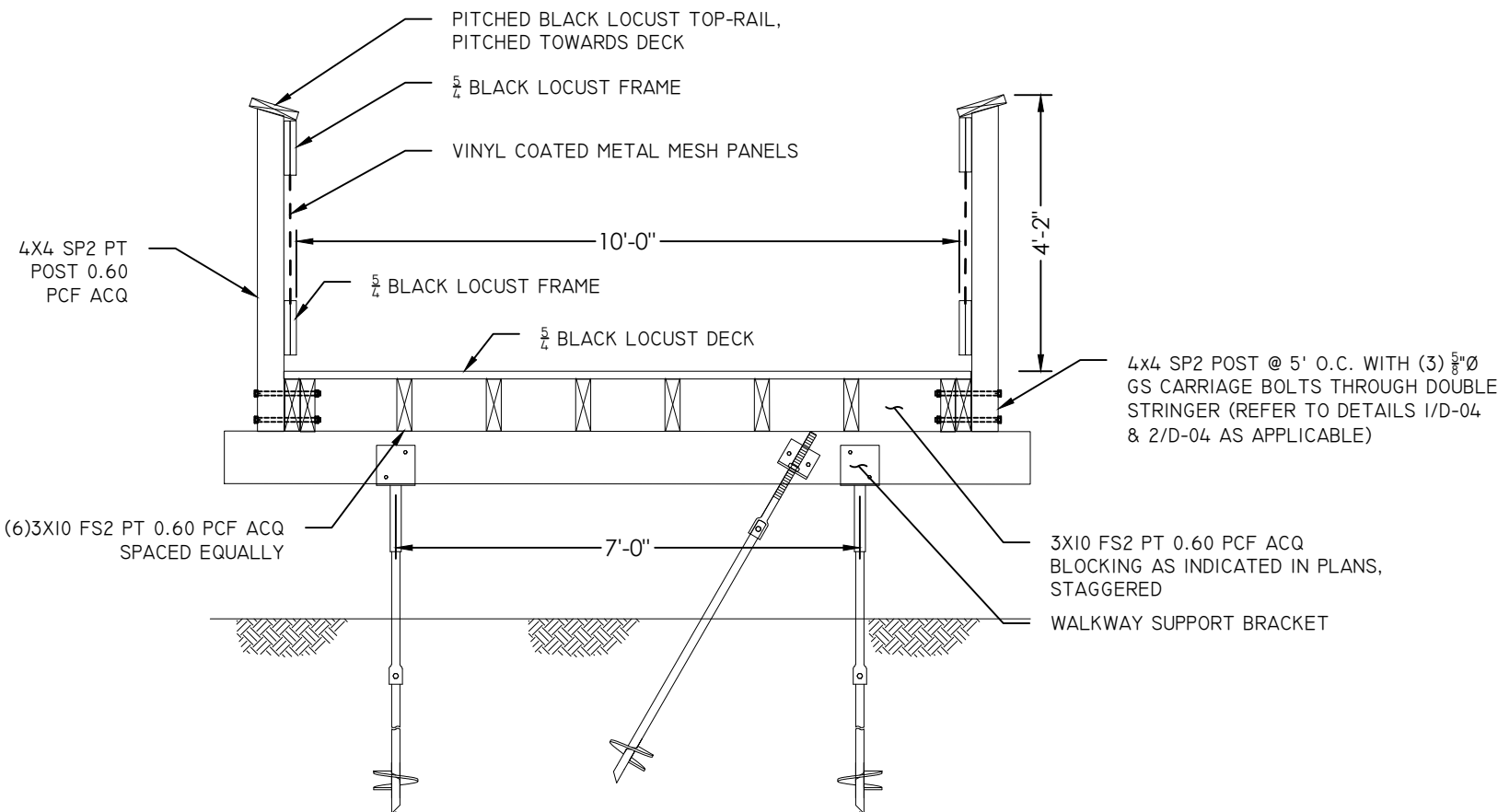
3 DETAIL
SCALE: 1 1/2" = 1'-0"



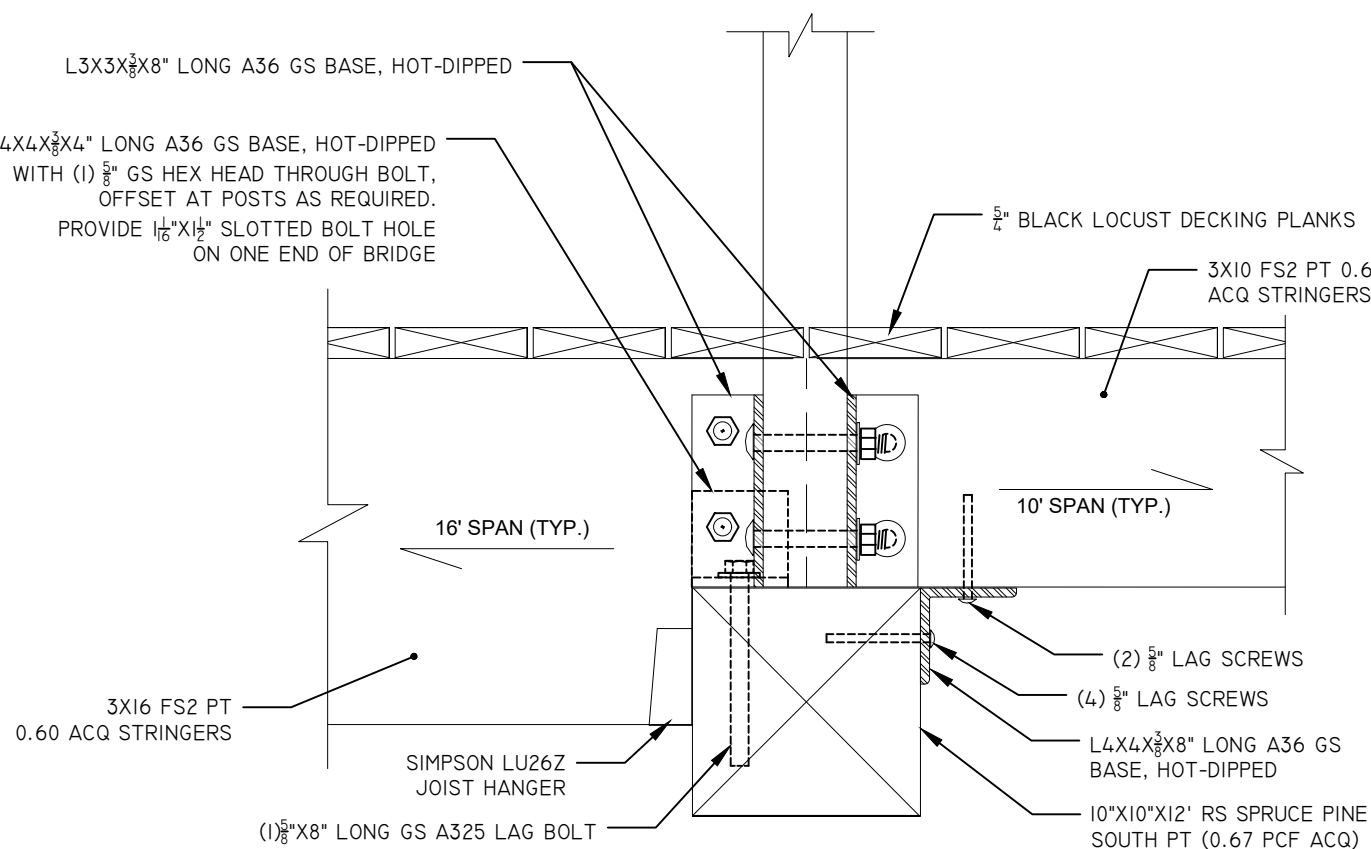
2 DETAIL
SCALE: 1 1/2" = 1'-0"



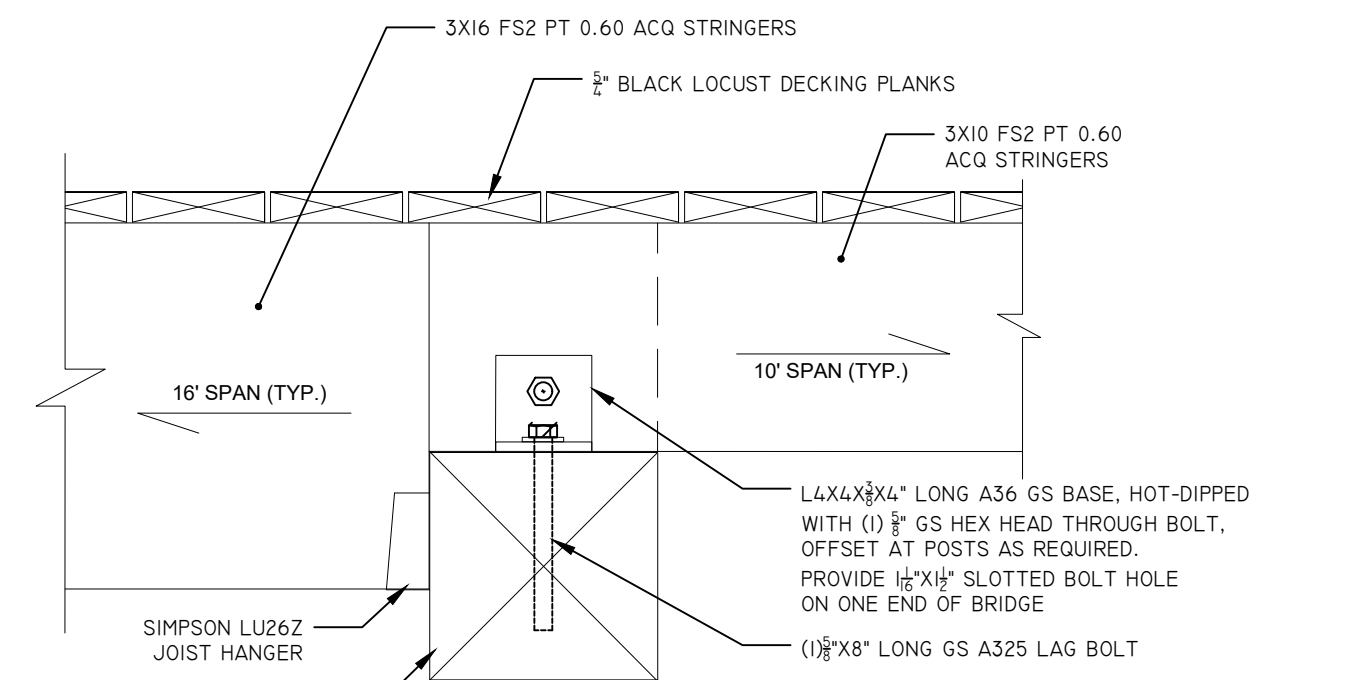
1 DETAIL
SCALE: 1 1/2" = 1'-0"



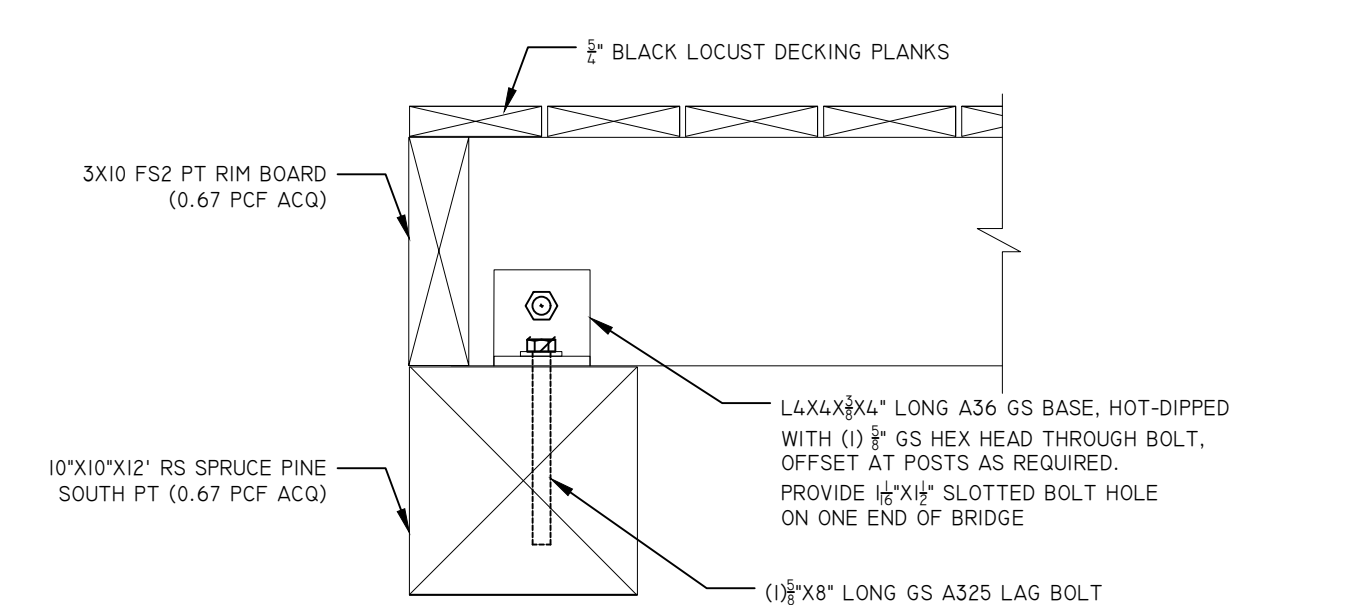
7 SECTION
SCALE: 3/4" = 1'-0"



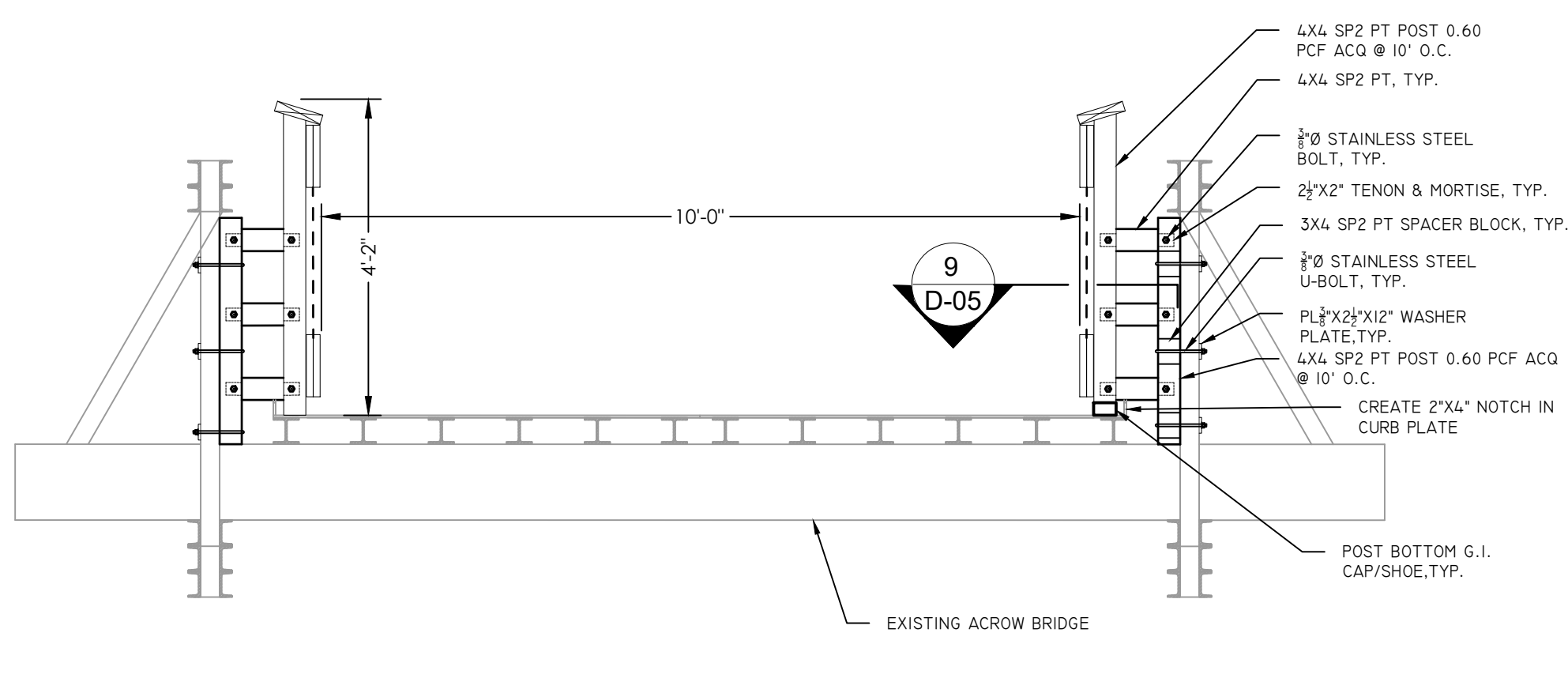
6 SECTION
SCALE: 1 1/2" = 1'-0"



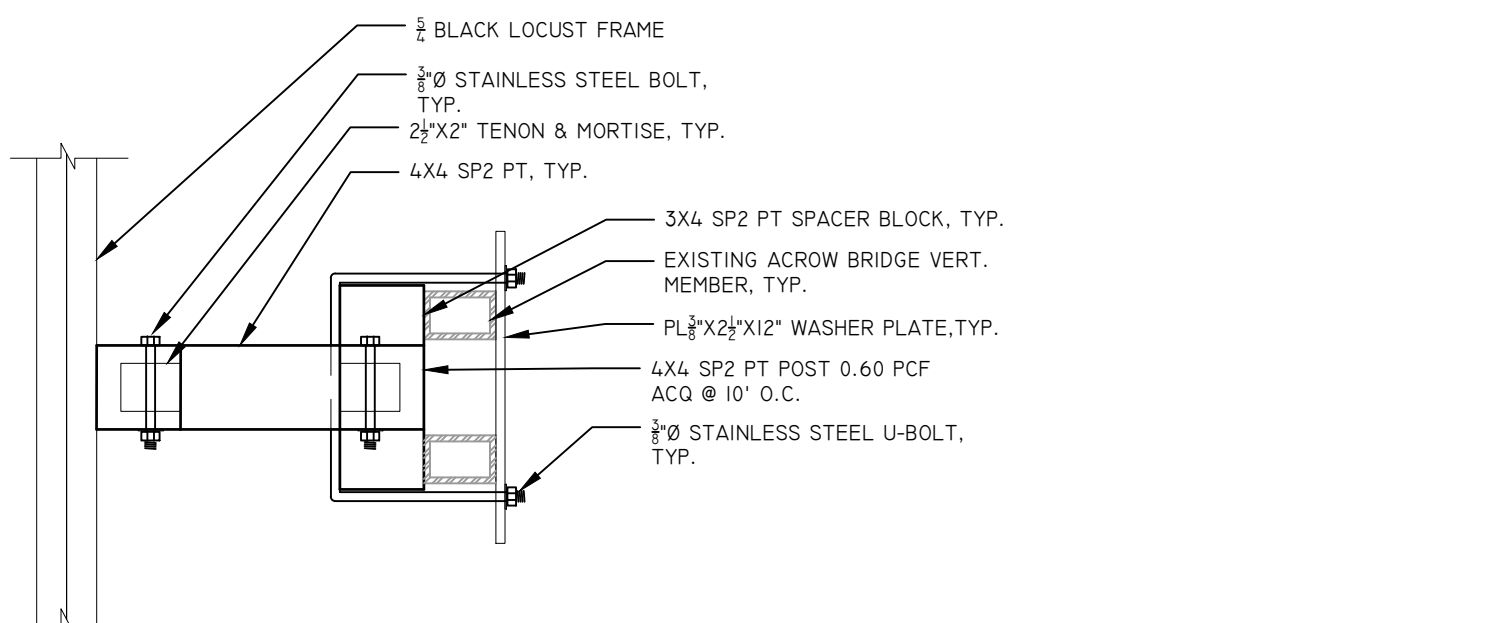
5 SECTION
SCALE: 1 1/2" = 1'-0"



4 SECTION
SCALE: 1 1/2" = 1'-0"



8 SECTION @ ACROW BRIDGE
SCALE: 3/4" = 1'-0"



9 SECTION
SCALE: 1 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.



DESIGNER/DRAFTER:
M. PATE
CHECKED BY:
A. DICAMILLO
SCALE:

CITY OF NORWALK/
TOWN OF WILTON
CONNECTICUT

Filename:



Stantec Consulting Services Inc.
55 Church Street, Suite 601
New Haven, CT
06510
Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com

PROJECT TITLE:

NORWALK RIVER VALLEY TRAIL
'WIL-WALK'

CITY:

NORWALK & WILTON

DRAWING TITLE:

BOARDWALK DETAILS

PROJECT NO.

DRAWING NO.

SHEET NO.

D-05