

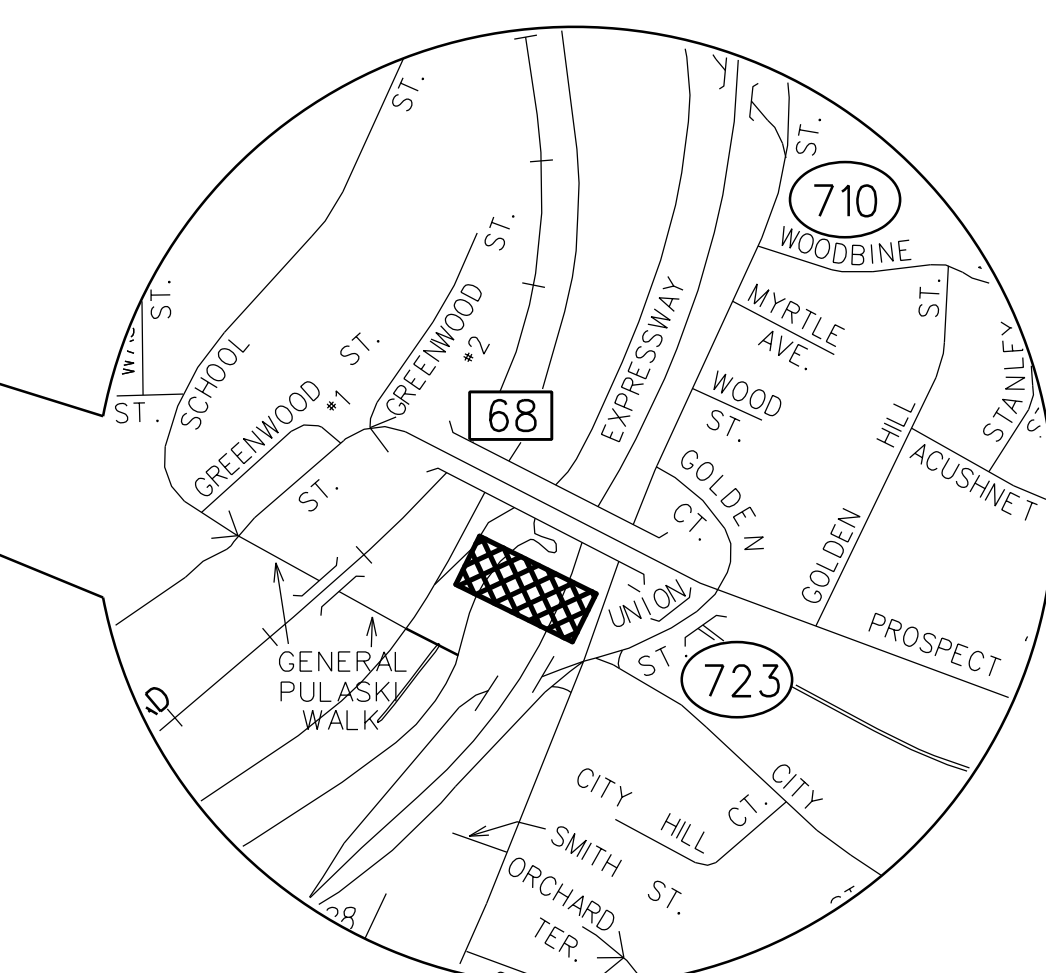
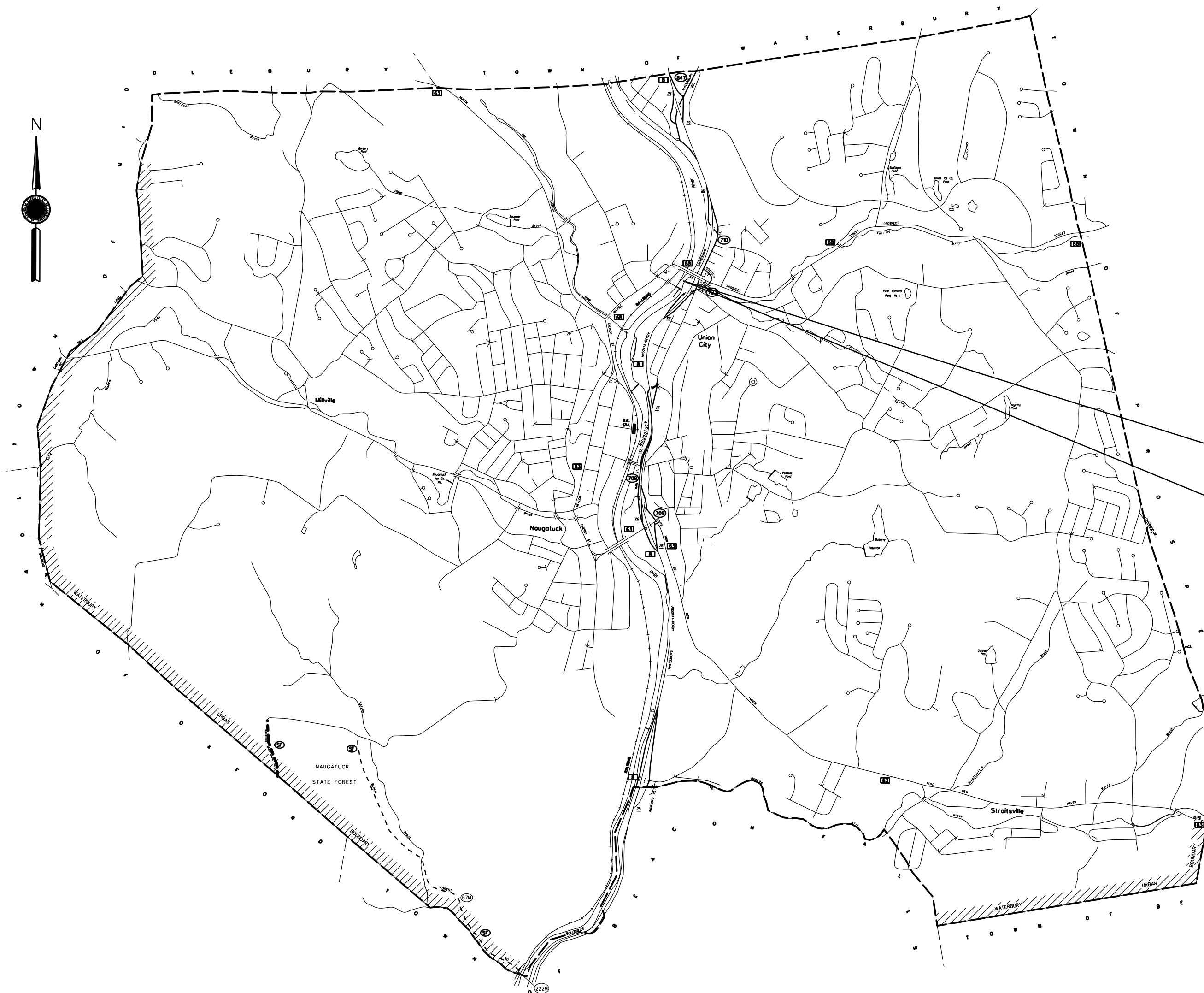
BOROUGH OF NAUGATUCK, CONNECTICUT

RETAINING WALL AND SIPHON REPAIR AT FULLING MILL BROOK

JUNE 2015

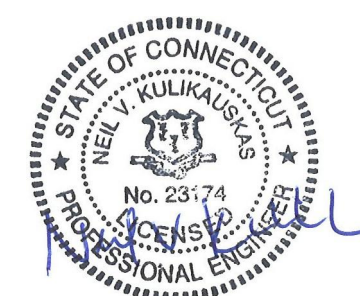


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C-1	GENERAL NOTES AND DETAILS
C-2	SITE PLAN
C-3	EROSION AND SEDIMENTATION CONTROL PLAN
C-4	SEWER DETAILS
C-5	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN
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PROJECT LOCATION

BOROUGH OF NAUGATUCK



CAD FILE: G:\Clients\Naugatuck CT\20140128.001A - Naugatuck - Siphon Repair\Drawings\Cover Sheet.Dgn LAYOUT: 23.34.12
 PLOTTED: 6/4/2015 10:55 AM BY: raymond culver



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REV	DESCRIPTION	DSN DWN	CHK APP	DATE

SCALE VERIFICATION

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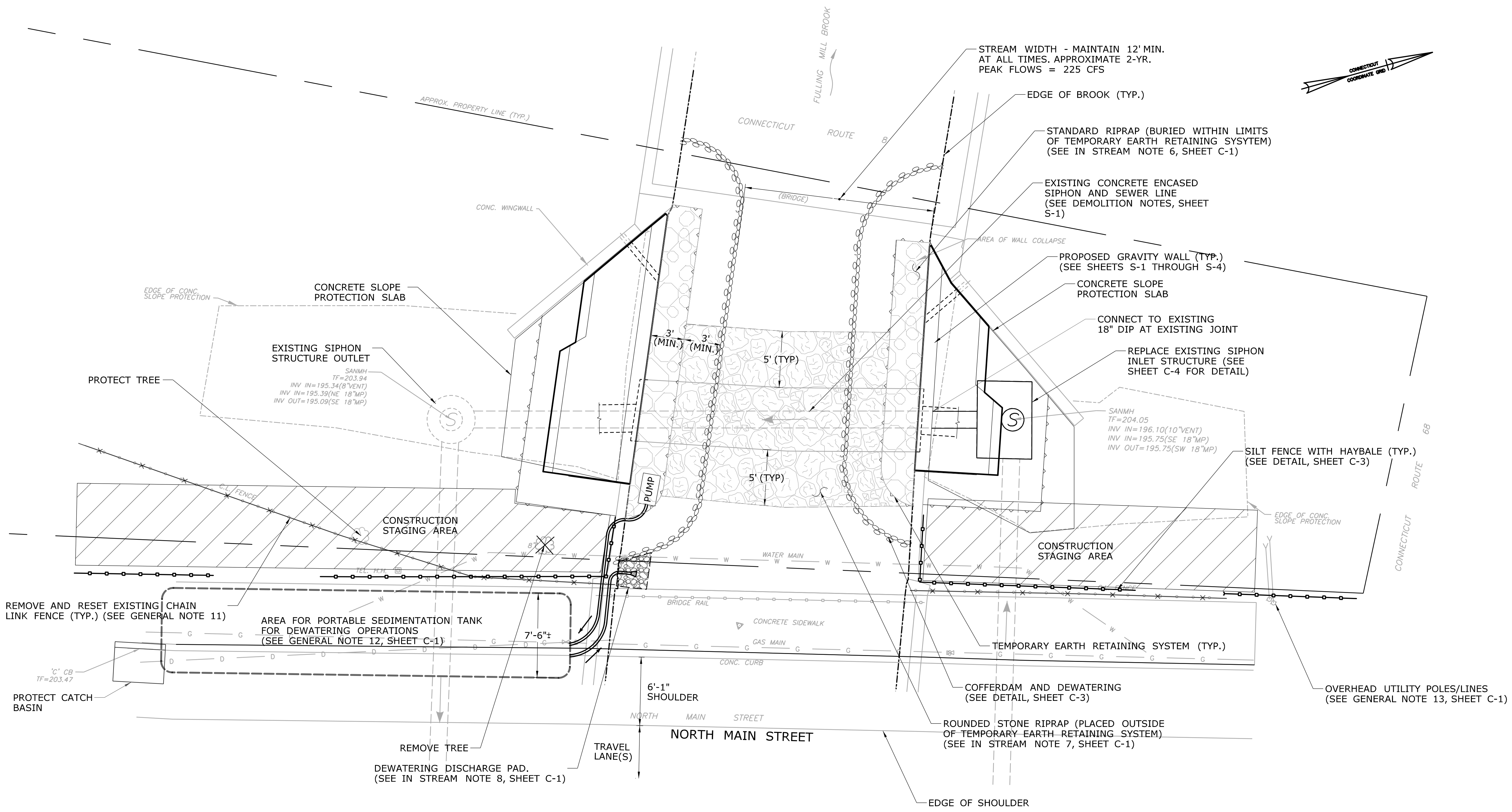
ORIGINAL DRAWING SIZE IS 22 x 34

SITE PLAN

RETAINING WALL AND SIPHON REPAIR AT FULLING MILL BROOK



PROJECT NO.	20140128.001A	C-2
ISSUE DATE	JUNE 2015	
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APPROVED BY	NVK	SHEET 3 of 10



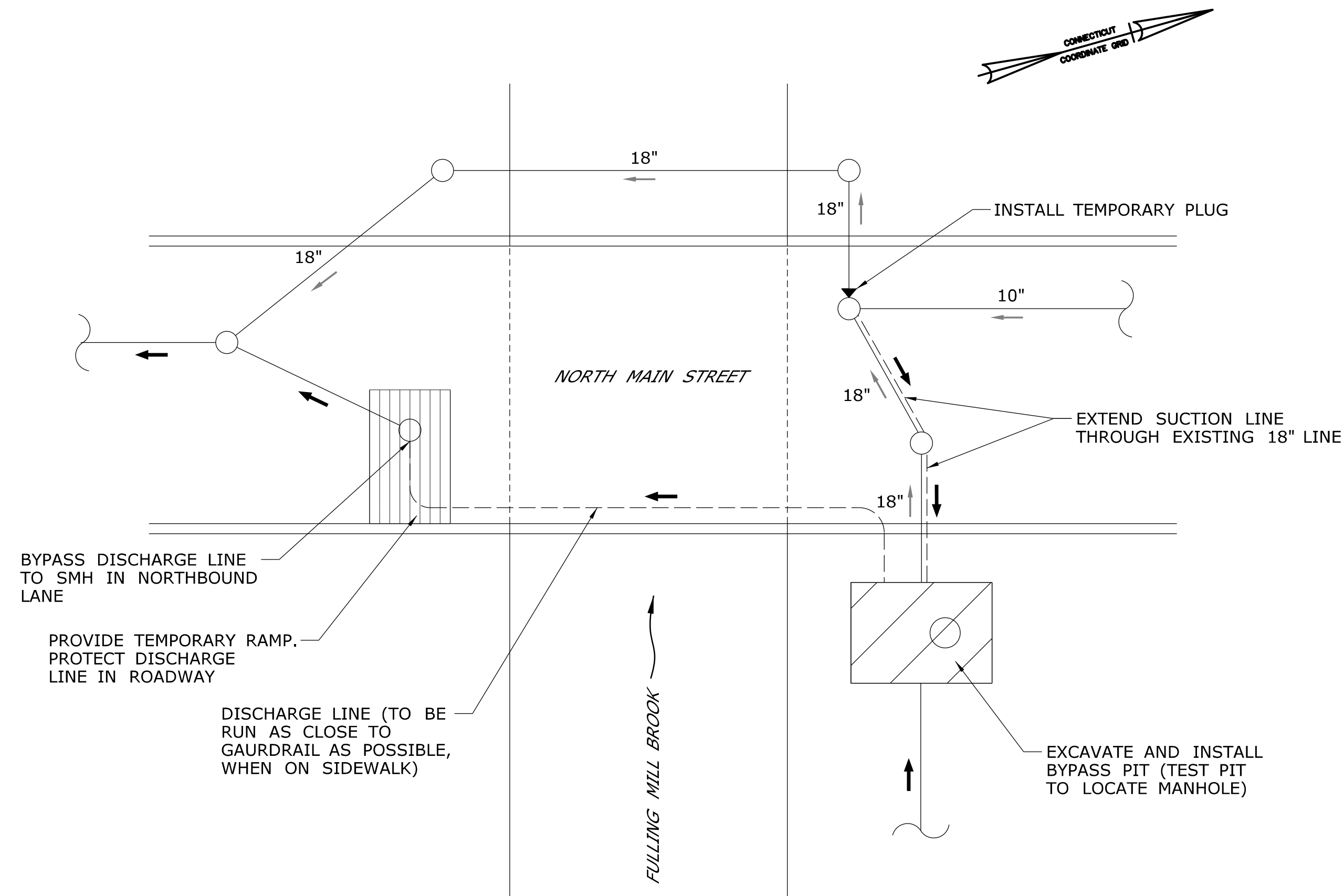
PLAN

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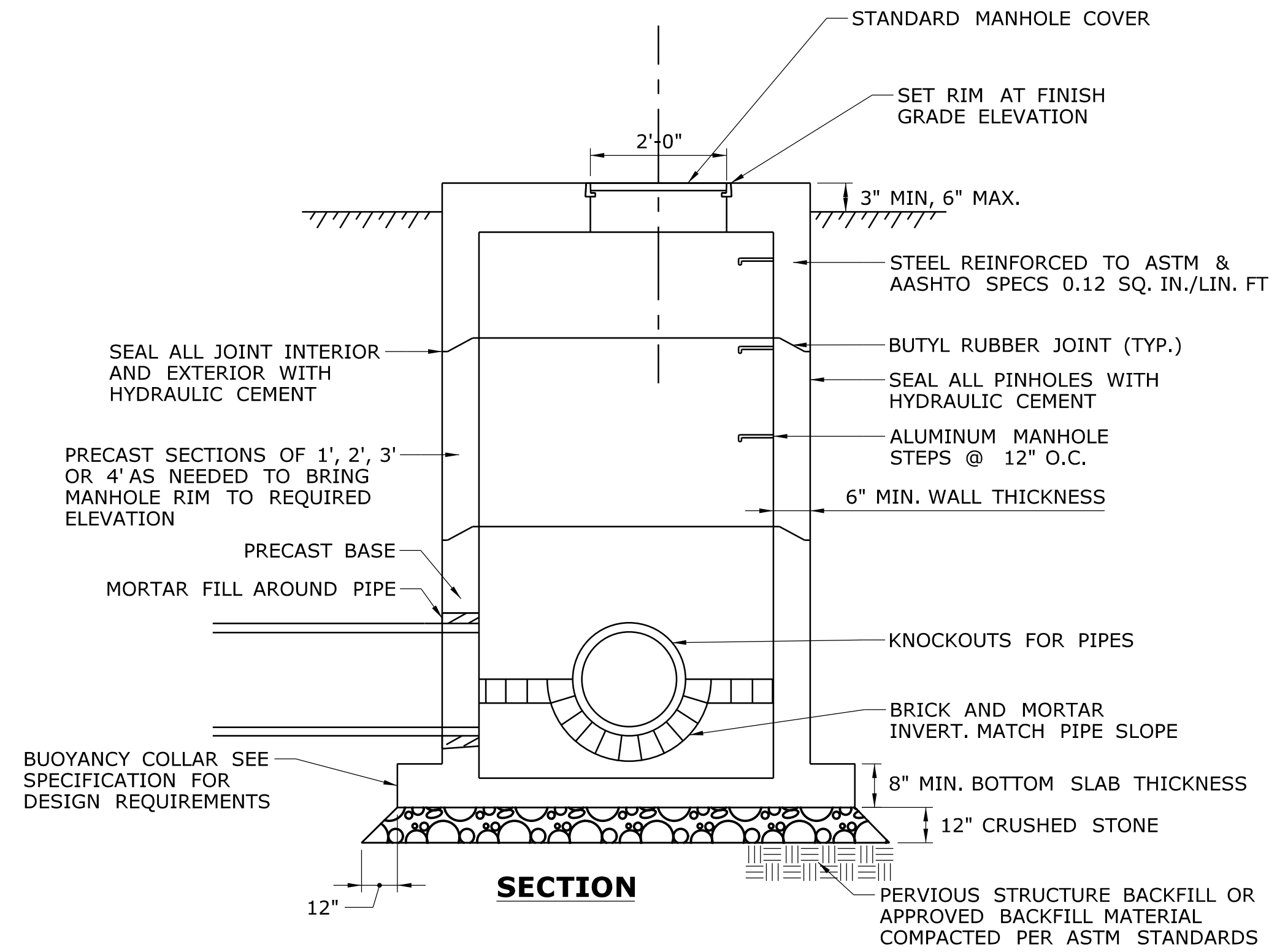


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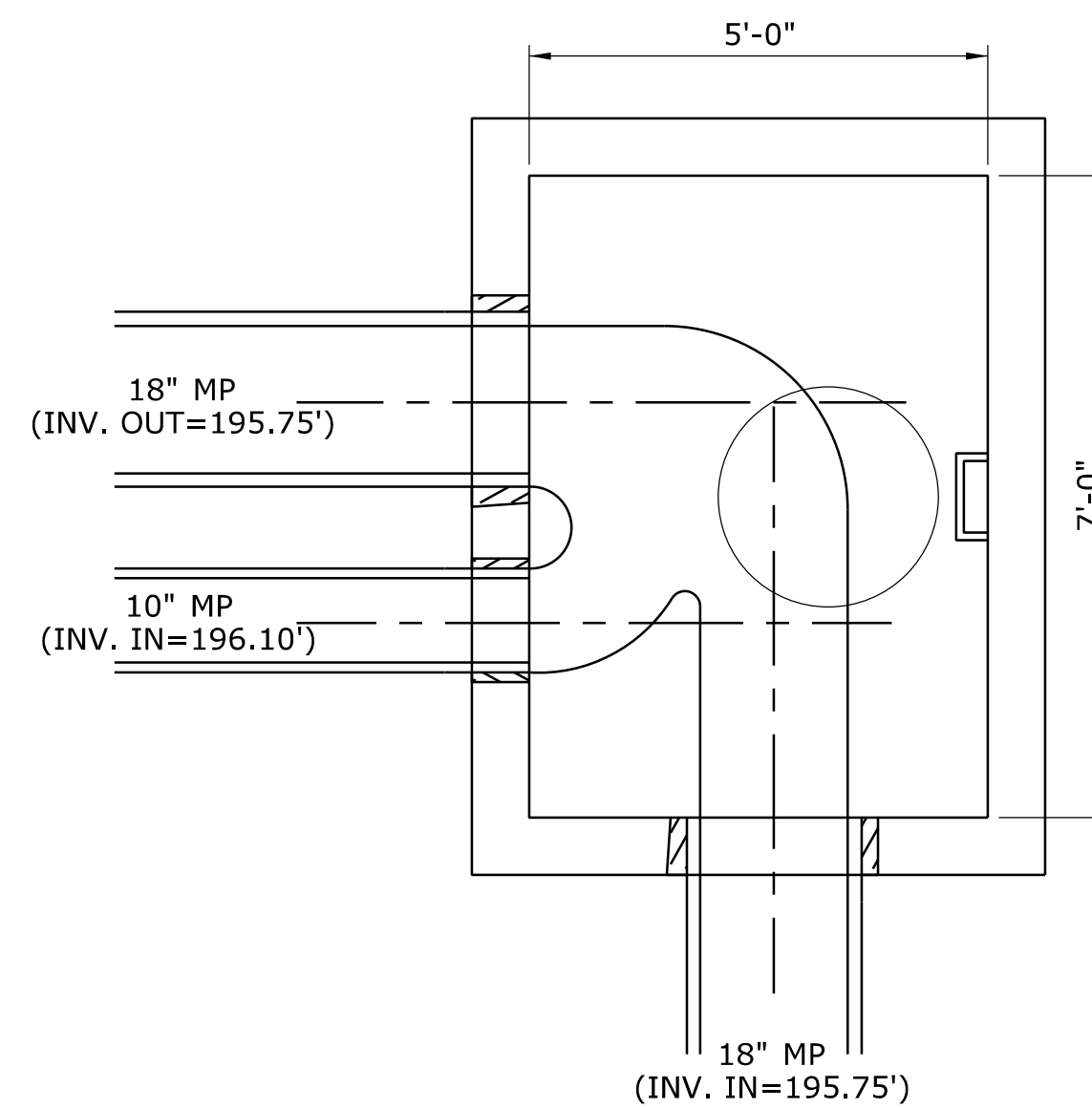
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TEMPORARY SEWER BYPASS PLAN
NTS




SECTION



PLAN

INLET SIPHON STRUCTURE
NTS

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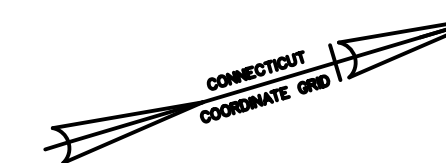
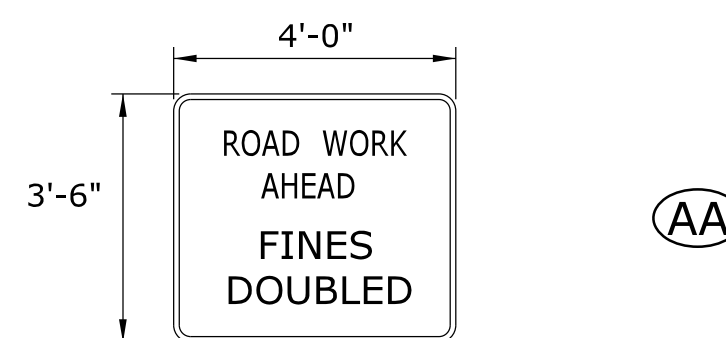
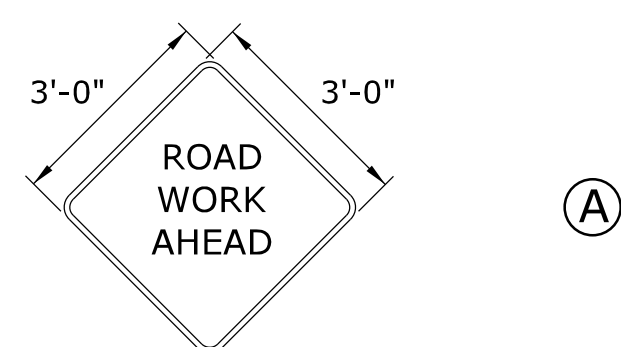
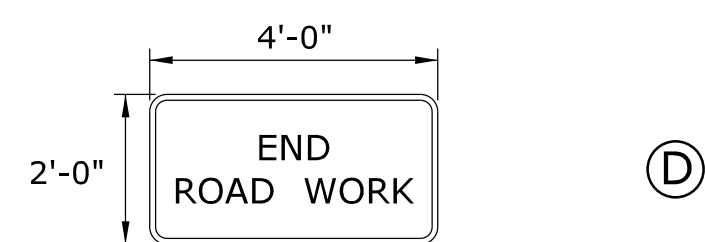
SEWER DETAILS
RETAINING WALL AND SIPHON REPAIR
AT FULLING MILL BROOK



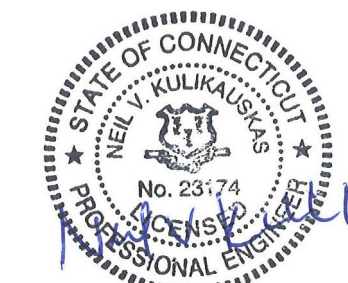
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C-4

SIGN LEGEND

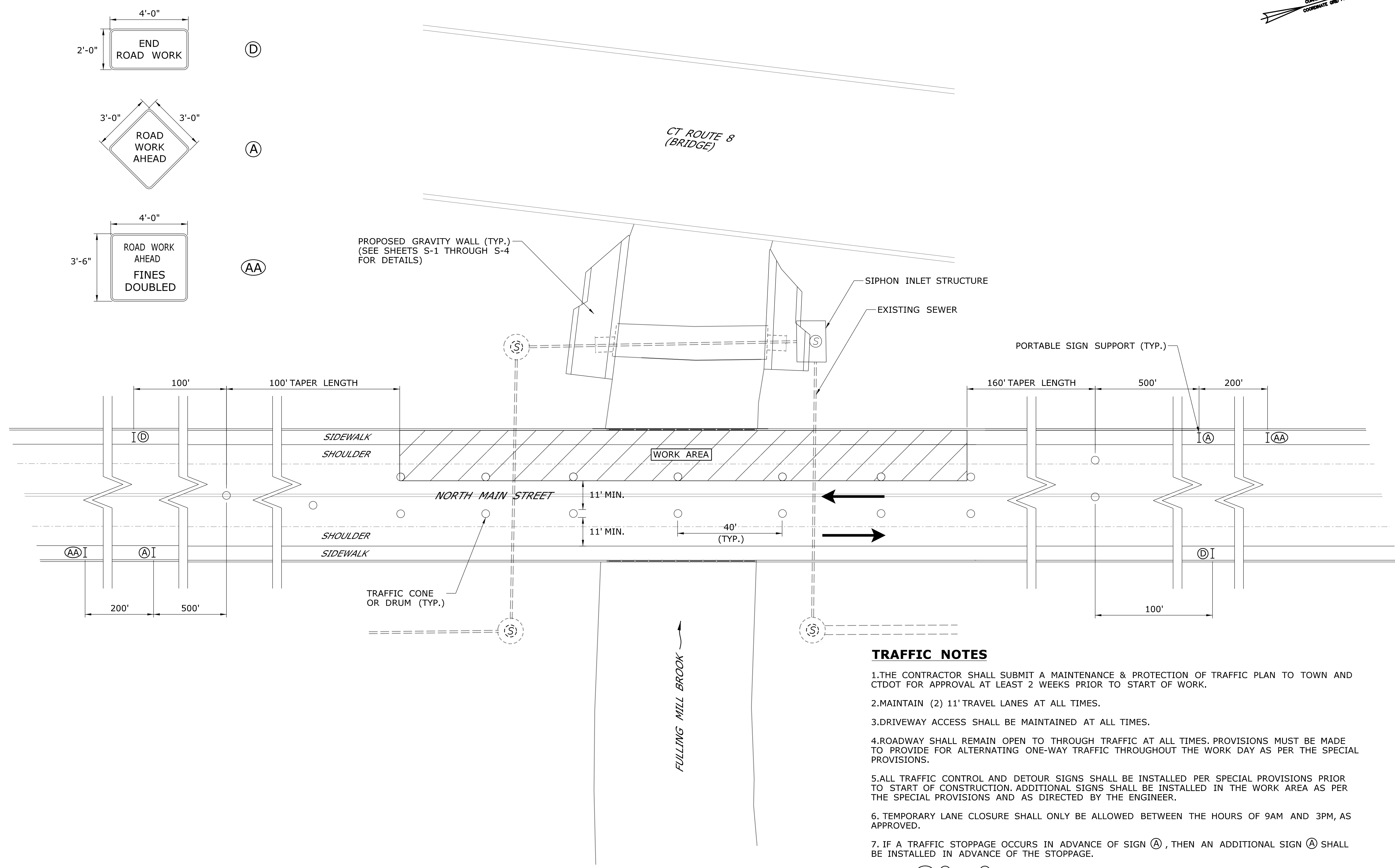


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PROPOSED GRAVITY WALL (TYP.)
(SEE SHEETS S-1 THROUGH S-4
FOR DETAILS)

SIPHON INLET STRUCTURE

EXISTING SEWER

PORTABLE SIGN SUPPORT (TYP.)

CT ROUTE 8
(BRIDGE)

SIDEWALK
SHOULDER

WORK AREA

NORTH MAIN STREET

11' MIN.

11' MIN.

40'
(TYP.)

SHOULDER
SIDEWALK

TRAFFIC CONE
OR DRUM (TYP.)

FULLING MILL BROOK

**MAINTENANCE AND PROTECTION OF TRAFFIC
WORK IN TRAVEL LANE AND SHOULDER**

SCALE: NTS

TRAFFIC NOTES

1. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE & PROTECTION OF TRAFFIC PLAN TO TOWN AND CTDOT FOR APPROVAL AT LEAST 2 WEEKS PRIOR TO START OF WORK.
2. MAINTAIN (2) 11' TRAVEL LANES AT ALL TIMES.
3. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
4. ROADWAY SHALL REMAIN OPEN TO THROUGH TRAFFIC AT ALL TIMES. PROVISIONS MUST BE MADE TO PROVIDE FOR ALTERNATING ONE-WAY TRAFFIC THROUGHOUT THE WORK DAY AS PER THE SPECIAL PROVISIONS.
5. ALL TRAFFIC CONTROL AND DETOUR SIGNS SHALL BE INSTALLED PER SPECIAL PROVISIONS PRIOR TO START OF CONSTRUCTION. ADDITIONAL SIGNS SHALL BE INSTALLED IN THE WORK AREA AS PER THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.
6. TEMPORARY LANE CLOSURE SHALL ONLY BE ALLOWED BETWEEN THE HOURS OF 9AM AND 3PM, AS APPROVED.
7. IF A TRAFFIC STOPPAGE OCCURS IN ADVANCE OF SIGN (A), THEN AN ADDITIONAL SIGN (A) SHALL BE INSTALLED IN ADVANCE OF THE STOPPAGE.
8. SIGNS (AA), (A), AND (D) SHOULD BE OMITTED WHEN THESE SIGNS HAVE ALREADY BEEN INSTALLED TO DESIGNATE A LARGER WORK ZONE THAN THE WORK ZONE THAT IS ENCOMPASSED ON THIS PLAN.
9. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO MUTCD STANDARDS AND CTDOT STANDARDS.
10. AT THE BEGINNING AND END OF EACH WORKDAY, THE CONTRACTOR SHALL NOTIFY THE TOWN COMMUNICATIONS CENTER AND CTDOT OF THE STATUS OF ACCESSIBILITY AND LANE CLOSURE.
11. FOR INSTALLATION, MAINTENANCE AND REMOVAL REQUIREMENTS, SEE CTDOT FORM 816 AND SPECIAL PROVISIONS.
12. IF SIDEWALK NEEDS TO BE CLOSED FOR TEMPORARY SEDIMENTATION TANK, APPROPRIATE SIGNAGE SHALL BE INSTALLED DIRECTING PEDESTRIANS TO AN ALTERNATE ROUTE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS FROM THE TOWN AND CTDOT.

SCALE VERIFICATION

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ORIGINAL DRAWING SIZE IS 22 x 34

**MAINTENANCE AND PROTECTION
OF TRAFFIC PLAN**

RETAINING WALL AND SIPHON REPAIR
AT FULLING MILL BROOK



PROJECT NO.	20140128.001A
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APPROVED BY	NVK

C-5

SHEET 6 of 10

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DEMOLITION NOTES:

IN ORDER TO CONSTRUCT THE NEW CAST-IN-PLACE CONCRETE RETAINING WALLS ON BOTH THE NORTH AND SOUTH SIDES OF FULLING MILL BROOK BETWEEN BRIDGE NO. 00595 AND BRIDGE NO. 01657, THE CONTRACTOR SHALL REMOVE ITEMS INCLUDING BUT NOT LIMITED TO:

1. THE CONCRETE SLOPE PROTECTION SLAB, CAST ON GRADE, TO THE LIMITS SHOWN OR AS NECESSARY TO CONSTRUCT THE NEW GRAVITY WALLS.
2. THE ENTIRE EXISTING STONE GRAVITY WALLS.

THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND PROVIDE TEMPORARY SUPPORT, AS NEEDED, DURING CONSTRUCTION FOR THE CONCRETE ENCASEMENT OF THE SIPHON PIPE IN FULLING MILL BROOK, THE SIPHON PIPE INCLUDING CONNECTIONS AND FITTINGS NOT ENCASED IN CONCRETE AND THE SMH ON THE SOUTH SIDE OF THE BROOK CROSSING. THE CONTRACTOR IS REQUIRED TO SUBMIT WORKING DRAWINGS IN ACCORDANCE WITH SECTION 1.05 CONTROL OF THE WORK THAT DEPICTS IN DETAIL THE TEMPORARY SUPPORT TO BE USED DURING CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND AVOID DAMAGE TO THE CONCRETE RETAINING WALLS, FOOTINGS, UTILITIES, GUARDRAIL AND OTHER INCLUSIVE BRIDGE COMPONENTS OF BRIDGE NO. 00595 AND BRIDGE NO. 01657 DURING CONSTRUCTION.

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION - FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2014 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.

LIVE LOAD: SURCHARGE

ALLOWABLE DESIGN STRESSES:

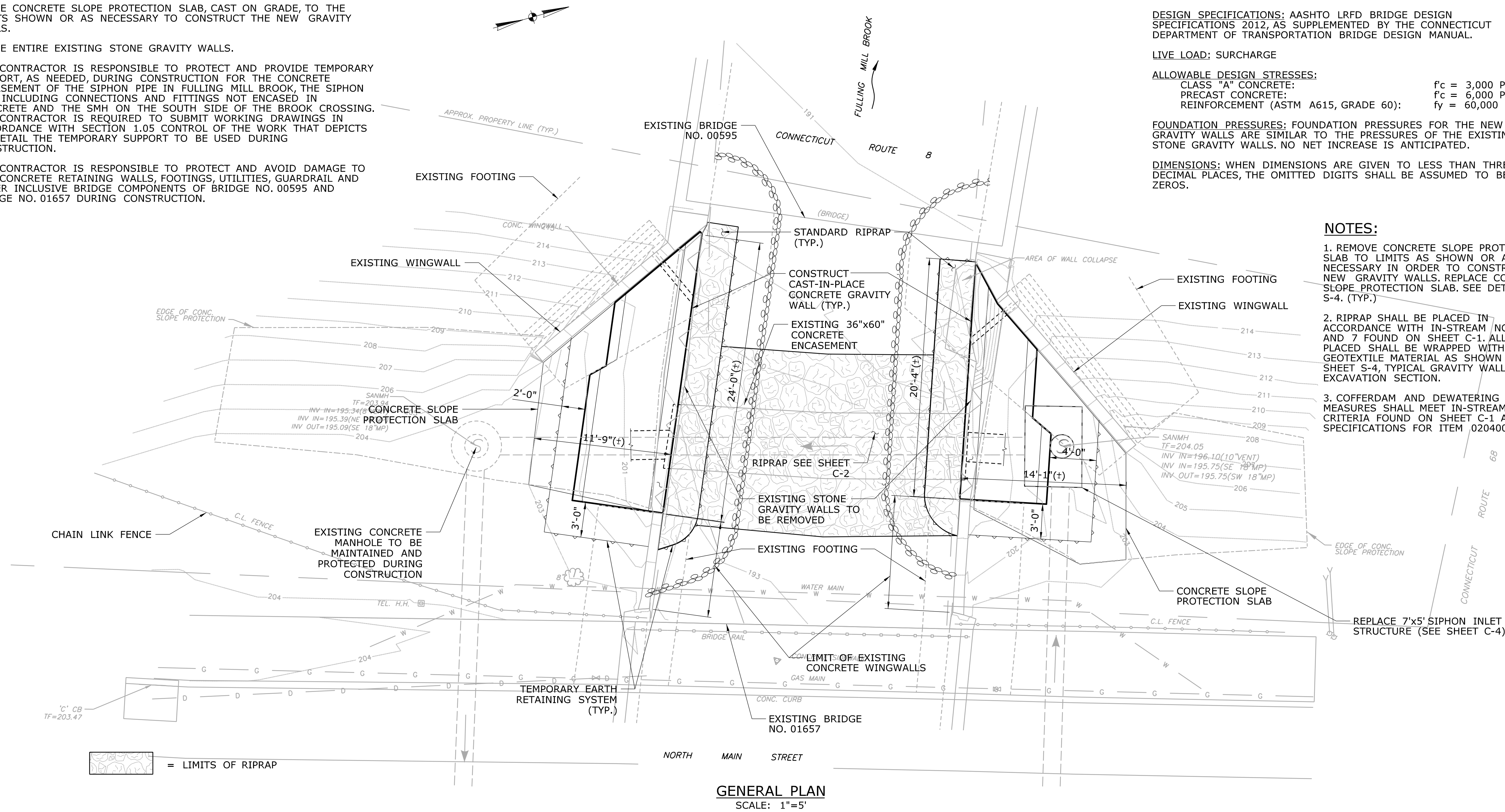
CLASS "A" CONCRETE: $f_c = 3,000$ PSI
 PRECAST CONCRETE: $f_c = 6,000$ PSI
 REINFORCEMENT (ASTM A615, GRADE 60): $f_y = 60,000$ PSI

FOUNDATION PRESSURES: FOUNDATION PRESSURES FOR THE NEW GRAVITY WALLS ARE SIMILAR TO THE PRESSURES OF THE EXISTING STONE GRAVITY WALLS. NO NET INCREASE IS ANTICIPATED.

DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

NOTES:

1. REMOVE CONCRETE SLOPE PROTECTION SLAB TO LIMITS AS SHOWN OR AS NECESSARY IN ORDER TO CONSTRUCT THE NEW GRAVITY WALLS. REPLACE CONCRETE SLOPE PROTECTION SLAB. SEE DETAIL ON S-4. (TYP.)
2. RIPRAP SHALL BE PLACED IN ACCORDANCE WITH IN-STREAM NOTES 6 AND 7 FOUND ON SHEET C-1. ALL RIPRAP PLACED SHALL BE WRAPPED WITH GEOTEXTILE MATERIAL AS SHOWN ON SHEET S-4. TYPICAL GRAVITY WALL EXCAVATION SECTION.
3. COFFERDAM AND DEWATERING MEASURES SHALL MEET IN-STREAM NOTES CRITERIA FOUND ON SHEET C-1 AND SPECIFICATIONS FOR ITEM 0204001.



GENERAL PLAN
SCALE: 1"=5'

CONCRETE NOTES:

- CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE GRAVITY WALLS AND THE SLOPE PROTECTION SLAB.
- PRECAST CONCRETE: PRECAST CONCRETE SHALL BE USED FOR THE SIPHON INLET STRUCTURE.
- EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.
- CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.
- REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60, UNLESS NOTED OTHERWISE.
- CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE ITEM "CLASS 'A' CONCRETE."
- CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.



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GENERAL PLAN
 RETAINING WALL AND SIPHON REPAIR
 AT FULLING MILL BROOK



PROJECT NO.	20140128.001A
ISSUE DATE	JUNE 2015
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DESIGNED BY	MAC
DRAWN BY	DRB
CHECKED BY	MAC
APPROVED BY	WRB

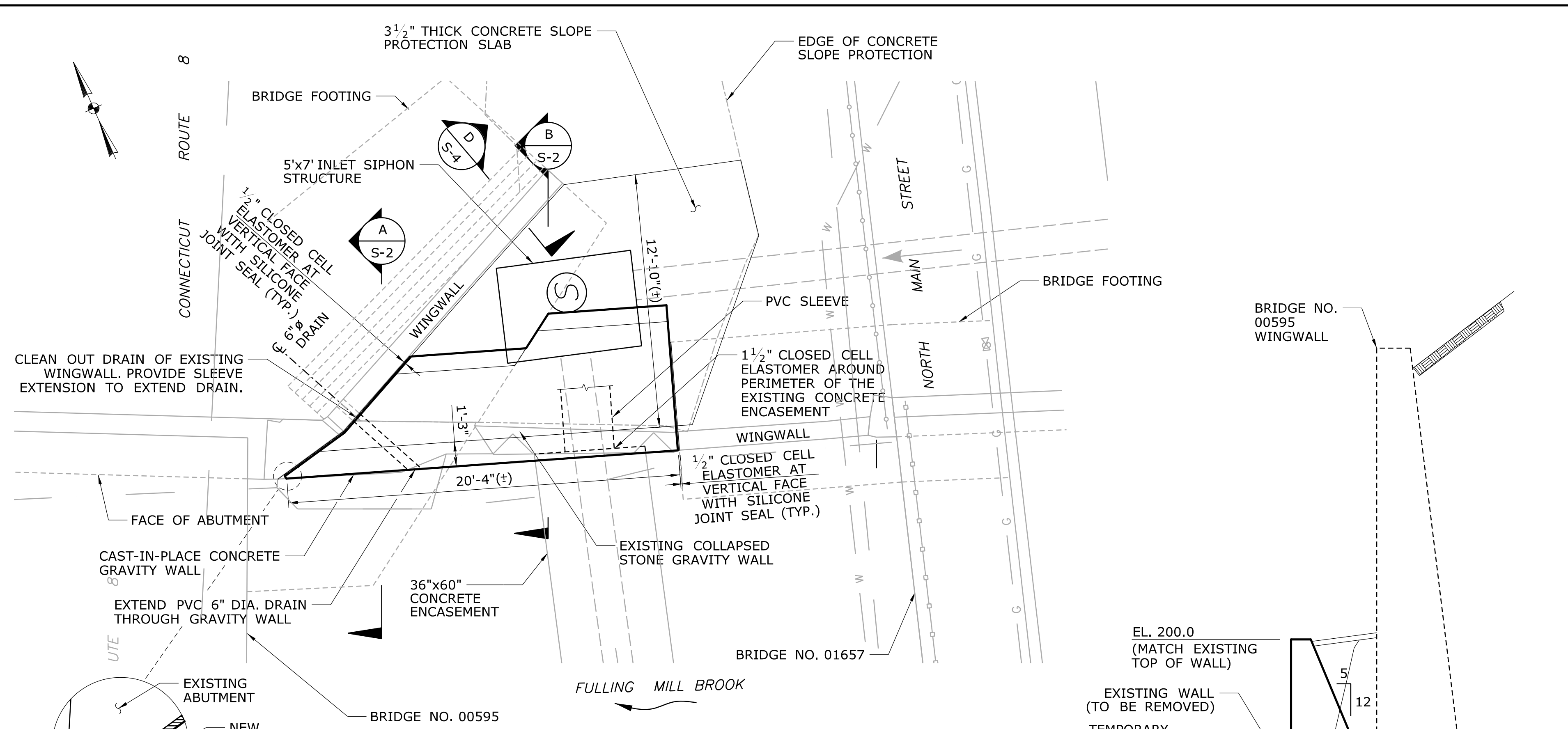
S-1

CAD FILE: G:\Clients\Naugatuck CT\2014\0128\001A - Naugatuck - Siphon Repair\Drawings\KLE TTB Dgn LAYOUT: PLOTTED: BY:

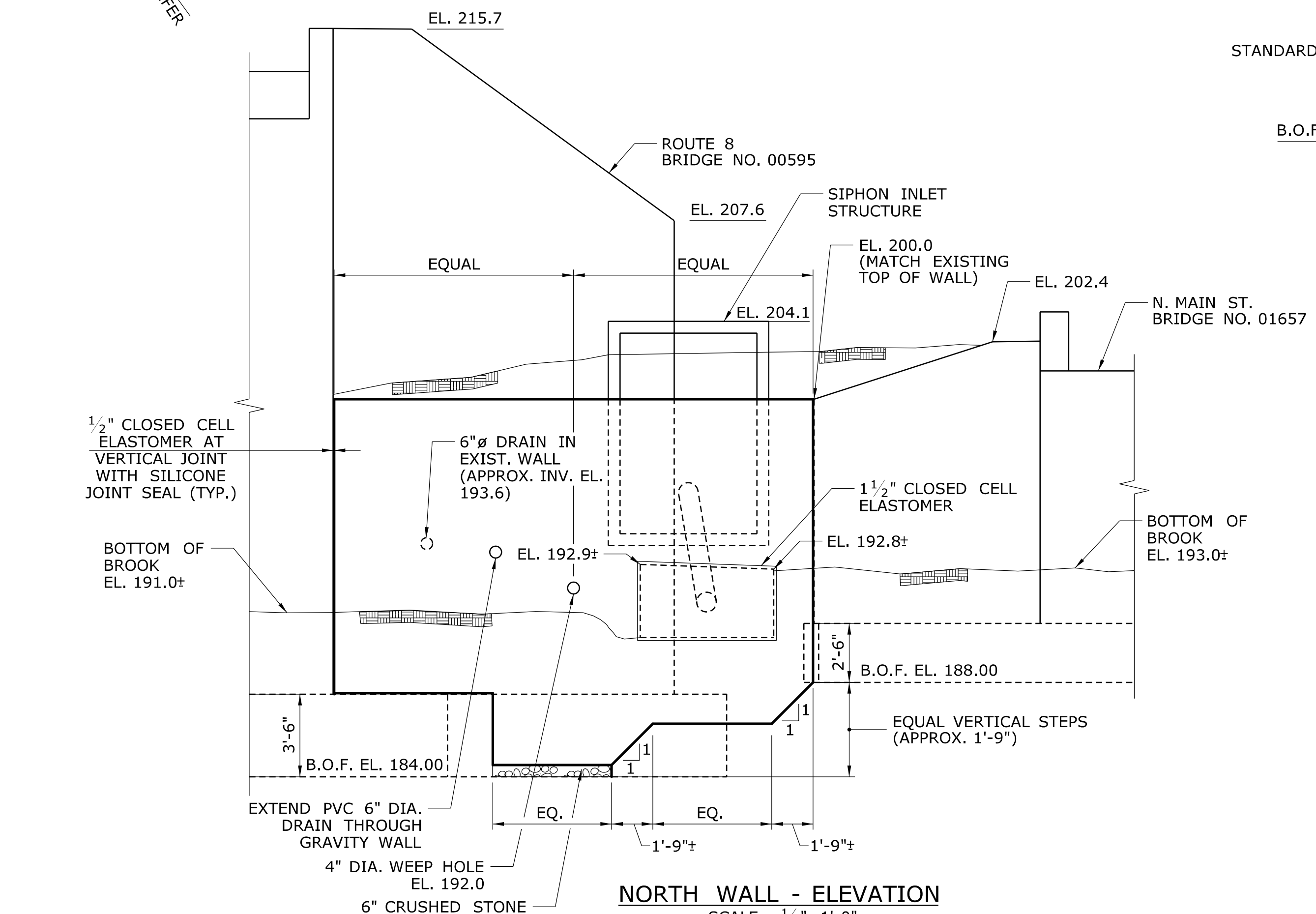


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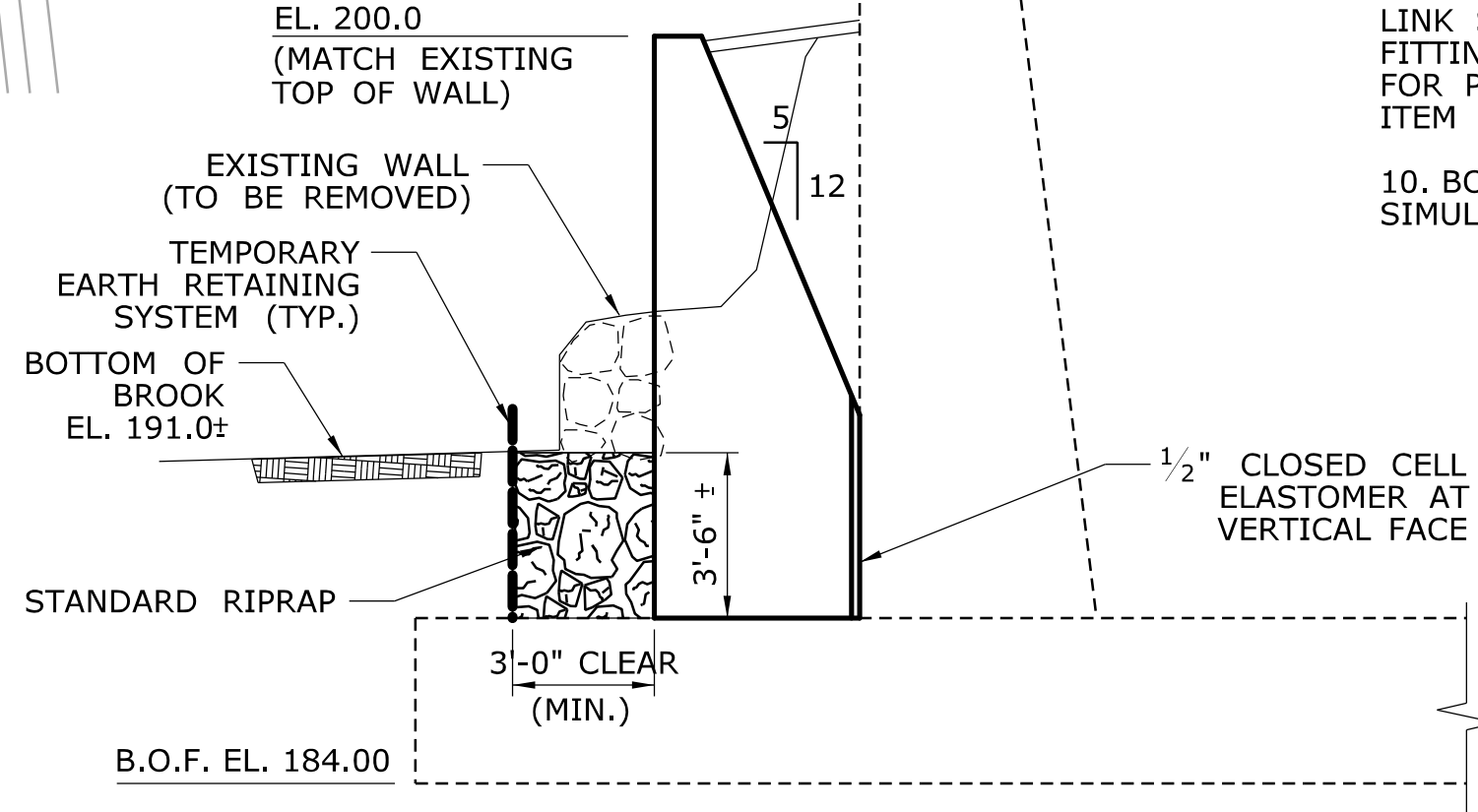
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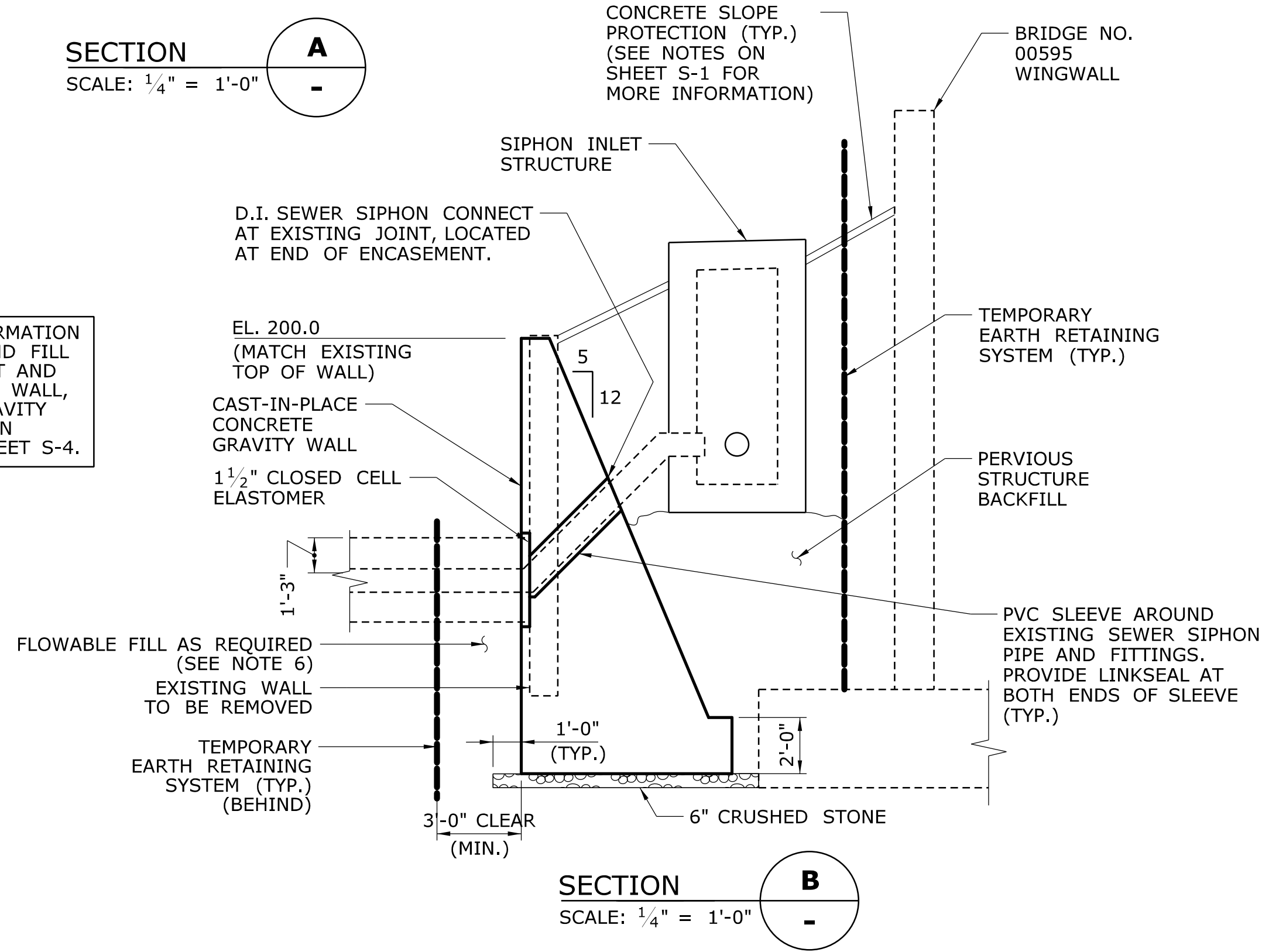
NORTH WALL - PLAN
SCALE: 1/4" = 1'-0"



NORTH WALL - ELEVATION
SCALE: 1/4" = 1'-0"



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



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

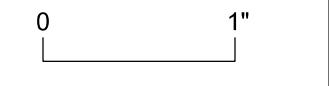
NOTES:

1. DRILLING AND ANCHORING INTO EXISTING BRIDGE NO. 00595 AND BRIDGE NO. 01657 IS NOT PERMITTED UNLESS APPROVED BY CTDOT.
2. THE CONTRACTOR SHALL TAKE CARE TO NOT UNDERMINE THE EXISTING BRIDGE WINGWALL FOOTINGS OR ABUTMENT FOOTINGS.
3. ASSUMPTIONS OF THE SOIL CONDITIONS WERE MADE BASED ON THE BORING LOGS FROM THE EXISTING BRIDGE DRAWINGS FOR BRIDGE NO. 00595 AND BRIDGE NO. 01657. THE ENGINEER SHALL BE NOTIFIED TO INSPECT THE FOOTING EXCAVATION WHERE UNSUITABLE MATERIALS ARE PRESENT.
4. A 6" (MAX) THICK LAYER OF CRUSHED STONE IS SPECIFIED AT THE LOWER SECTION OF THE BOTTOM OF THE WALL FOR DEWATERING PURPOSES. AFTER INSPECTION, THE ENGINEER MAY ORDER ADDITIONAL CRUSHED STONE ON THE SLOPES AND STEPPED TRANSITIONS. (COST INCLUDED UNDER ITEM 0216000)
5. TEMPORARY SUPPORT OF THE CONCRETE ENCASEMENT OF THE SIPHON PIPE, AND ASSOCIATED FIXTURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. SEE DEMOLITION NOTES ON S-1 FOR MORE INFORMATION.
6. IF APPROVED BY THE ENGINEER, EXCAVATABLE FLOWABLE FILL SHALL BE USED WHERE PLACEMENT AND COMPACTION OF PERVIOUS STRUCTURE BACKFILL CANNOT BE PERFORMED.
7. REMOVAL AND DISPOSAL OF EXISTING STONE GRAVITY WALLS AND CONCRETE PROTECTION SLABS ON BOTH SIDES OF FULLING MILL BROOK AS SHOWN SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "REMOVAL OF EXISTING MASONRY."
8. WORK ASSOCIATED WITH CLEANING AND EXTENDING THE EXISTING WEEPHOLES AND INSTALLATION OF NEW WEEP HOLES AND BAGGED STONE IN THE CAST-IN-PLACE CONCRETE GRAVITY WALLS SHALL NOT BE MEASURED FOR PAYMENT BUT INCLUDED IN THE COST OF THE WORK UNDER ITEM "CLASS 'A' CONCRETE."
9. THE COST OF FURNISHING AND INSTALLING THE PVC SLEEVE AND LINK SEALS AROUND THE EXISTING SEWER SIPHON PIPE AND FITTINGS THROUGH THE GRAVITY WALL SHALL NOT BE MEASURED FOR PAYMENT BUT INCLUDED IN THE COST OF THE WORK UNDER ITEM "CLASS 'A' CONCRETE."
10. BOTH SIDES OF THE GRAVITY WALLS SHALL BE BACKFILLED SIMULTANEOUSLY UP TO THE BOTTOM OF BROOK ELEVATION.

FOR MORE INFORMATION ON MATERIAL AND FILL LIMITS IN FRONT AND BEHIND GRAVITY WALL, SEE TYPICAL GRAVITY WALL EXCAVATION SECTION ON SHEET S-4.

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NORTH WALL DETAILS
RETAINING WALL AND SIPHON REPAIR AT FULLING MILL BROOK



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