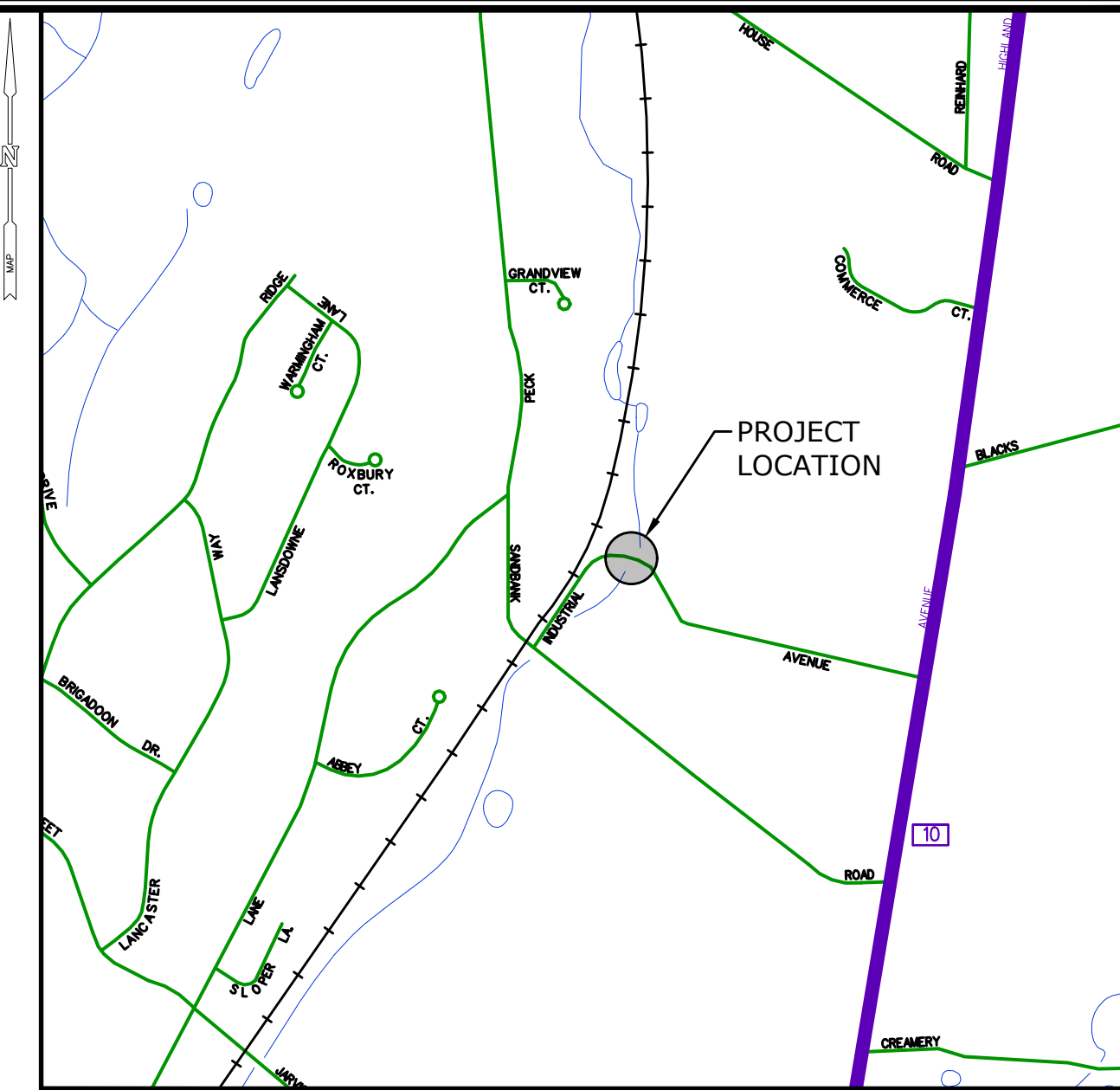


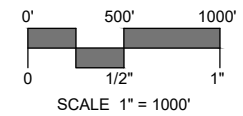
REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM

INDUSTRIAL AVENUE CHESHIRE, CONNECTICUT

CTDOT PROJECT NO. 9025-0030
SLR PROJECT NO. 11047.00059
JANUARY 30, 2024



LOCATION MAP:



LIST OF DRAWINGS

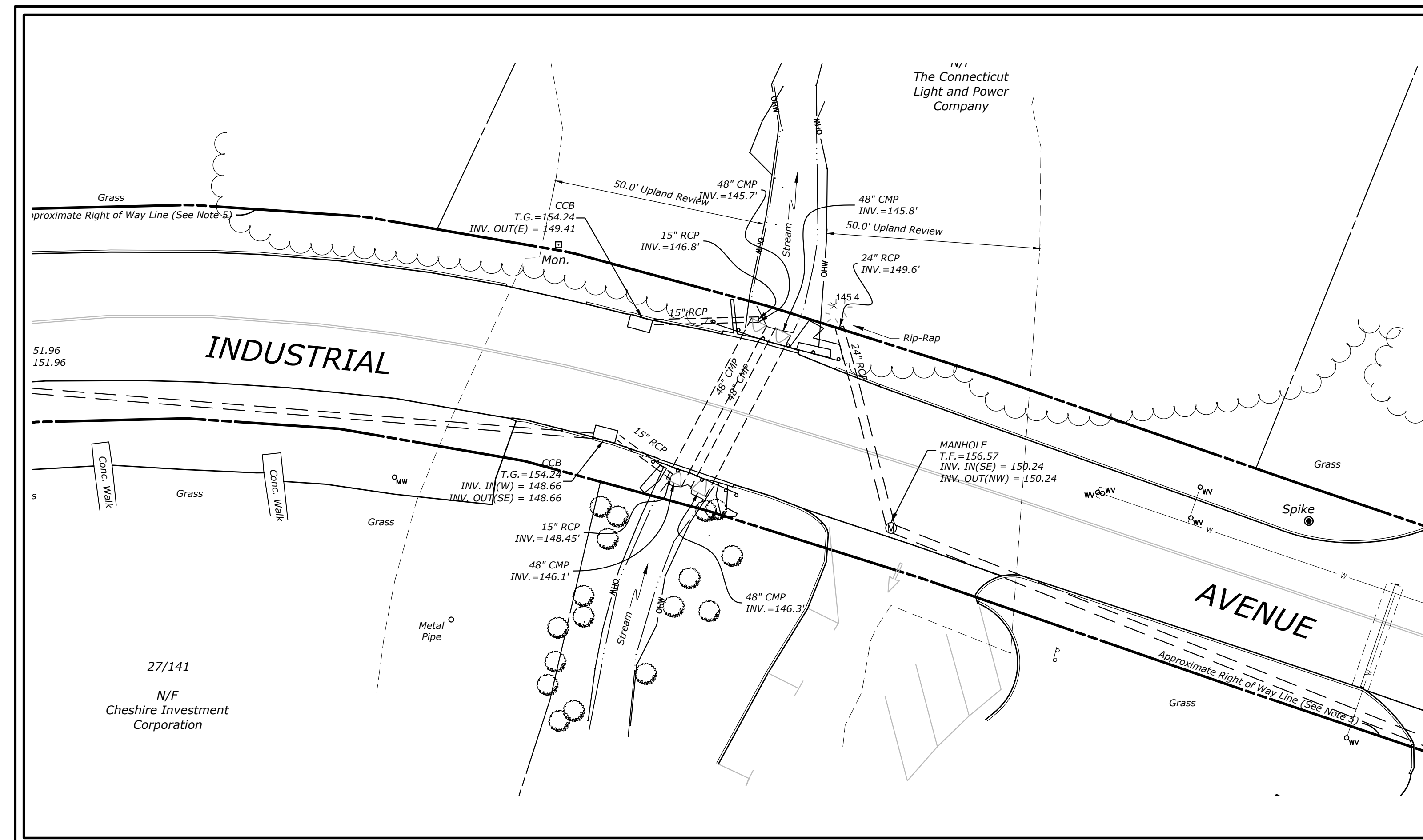
NO.	NAME	TITLE
01	--	TITLE SHEET
02	N-01	TYPICAL SECTION, GENERAL NOTES & LEGEND
03	EX-01	EXISTING CONDITIONS & BASELINE INFORMATION
04	RWY-01	ROADWAY PLAN
05	PRO-01	ROADWAY AND CHANNEL PROFILE
06	UTIL-01	UTILITY PLAN
07	ROW-01	RIGHT-OF-WAY SURVEY
08	MPT-01	DETOUR PLAN
09	SE-01	SEDIMENT & EROSION CONTROL PLAN
10	STR-01	BRIDGE PLAN, PROFILE & TYPICAL SECTION
11	STR-02	BORING LOGS
12	STR-03	FRAMING PLAN
13-14	STR-04 TO STR-05	STRUCTURAL DETAILS
15-17	STR-06 TO STR-08	STAGED CONSTRUCTION PLANS

CTDOT STANDARD HIGHWAY SHEETS

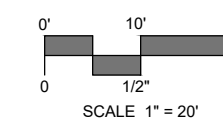
HW-INX_1	HIGHWAY STANDARD SHEET INDEX
HW-INX_2	HIGHWAY STANDARD SHEET INDEX
HW-0506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS
HW-05-07_01	TYPE "C" & "C-L" & DROP INLET CATCH BASIN
HW-05-07_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS
HW-05-07_08	CATCH BASIN FRAMES AND GRATES
HW-910_20	MASH W-BEAM HARDWARE
HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL
HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE
HW-910_27	THRIE-BEAM ATTACHMENT
HW-911_01	R-B END ANCHORAGE TYPE I AND II
HW-921_01	DRIVEWAY RAMPS AND SIDEWALKS

CTDOT STANDARD TRAFFIC SHEETS

TR-STD_INDEX	TRAFFIC STANDARD SHEET INDEX
TR_1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS
TR_1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR_1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES
TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS
TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS



PROJECT SITE VICINITY MAP:



PREPARED FOR:

TOWN OF CHESHIRE
84 SOUTH MAIN STREET
CHESHIRE, CONNECTICUT 06410

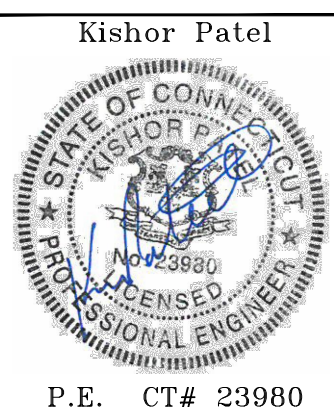
PREPARED BY:



99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM



Know what's below.
Call before you dig.
www.cbyd.com



P.E. CT# 23980

Copyright SLR International Corporation - 2021

GENERAL NOTES

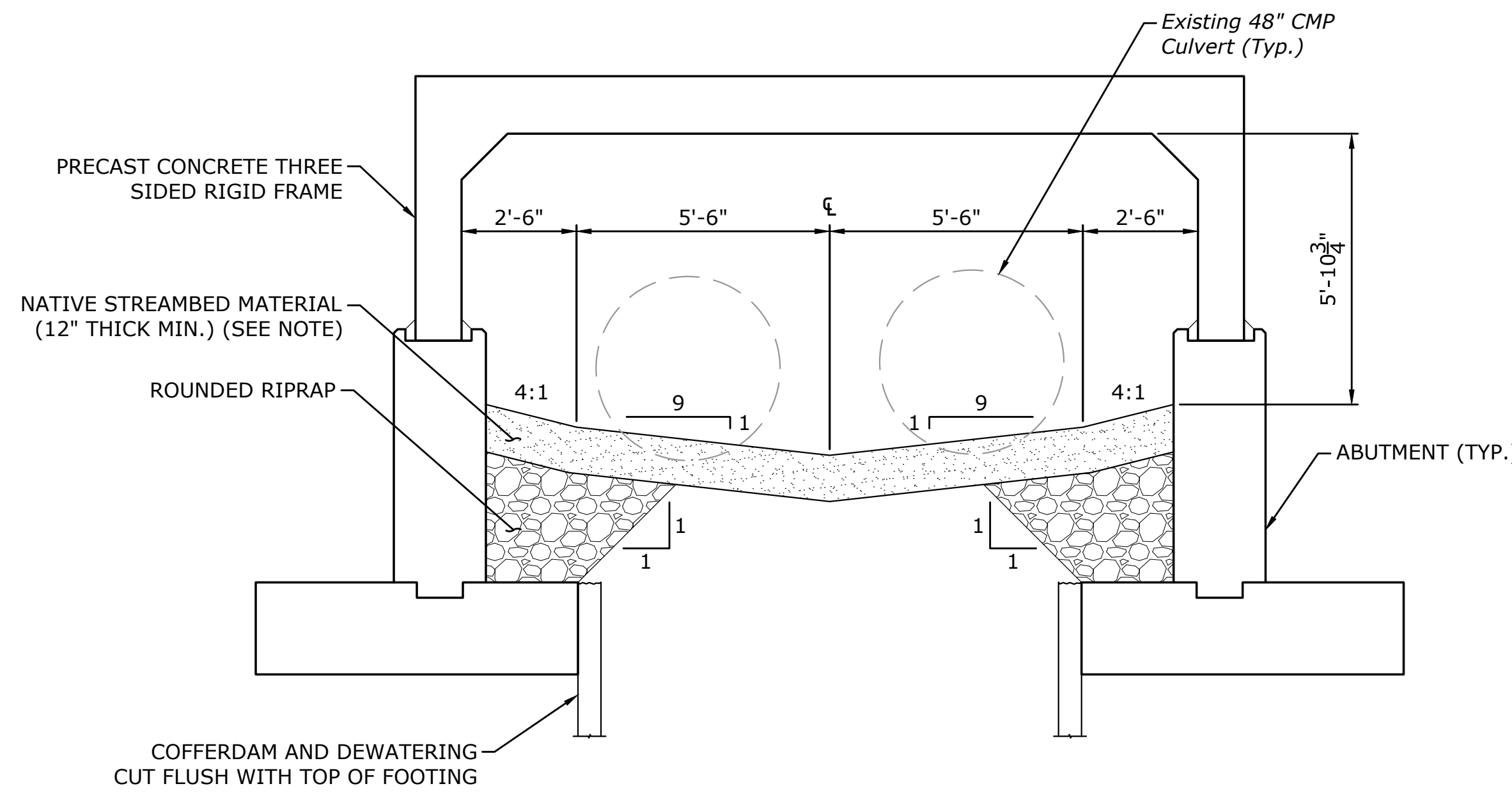
- SLR CONSULTING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- WETLAND LIMITS SHOWN HAVE BEEN DELINEATED BY SLR CONSULTING. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE "BEST MANAGEMENT PRACTICES FOR THE PROTECTION OF THE ENVIRONMENT" AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- THE PROPERTY LINES DEPICTED HAVE BEEN COMPILED FROM VARIOUS SOURCES INCLUDING TOWN OF CHESHIRE LAND RECORDS AND ARE NOT TO BE CONSTRUED AS BEING OBTAINED AS THE RESULT OF A FIELD SURVEY, NOR DO THEY REPRESENT A PROPERTY/BOUNDARY OPINION.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2021, AND SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL BE AWARE OF THE WORK WHICH IS TO BE PERFORMED WITHIN AND ADJACENT TO PRIVATE PROPERTY RIGHT-OF-WAYS.
- SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - REVISED 2002", AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE MUNICIPALITY WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- ALL CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE RE-FUELED A MINIMUM OF 100-FT AWAY FROM WETLANDS AND WATERCOURSES.
- CONSTRUCTION EQUIPMENT SHALL BE STORED OUTSIDE OF AREAS SUBJECT TO FLOODING.
- CONTRACTOR TO STAKE OUT WORK LIMITS AND COORDINATE SELECTIVE CLEARING WITH THE TOWN. NO SEPARATE PAYMENT.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN ALL PARTIES INCLUDING THE TOWN ENVIRONMENTAL PLANNER PRIOR TO MOBILIZATION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REVIEW AND CLEAR THE SITE DAILY FOR TRASH AND/OR DEBRIS.
- THE CONTRACTOR SHALL PROVIDE ON-SITE LAVATORY FACILITIES TO BE MAINTAINED THROUGHOUT CONSTRUCTION. TO BE PAID UNDER ITEM "MOBILIZATION AND PROTECTION CLOSEOUT."

UTILITIES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH APPROPRIATE UTILITY COMPANIES REGARDING RELOCATION AND PROTECTION OF THEIR FACILITIES AND SCHEDULING OF SUCH WORK.

LEGEND

EXISTING		PROPOSED
---	STREET LINE	---
---	PROPERTY LINE	---
---155---	CONTOUR	---(155)---
x70	SPOT GRADE	+70.5
~ ~ ~	STATE WETLAND BOUNDARY	~ ~ ~
---FED WL---	FEDERAL WETLAND BOUNDARY	---
---	WATERCOURSE LINE	---
---	ORDINARY HIGH WATER	---
~ ~ ~	TREE LINE	~ ~ ~
☀	TREE	☀
☀	SHRUB	☀
---	FENCE LINE	---
---	GUIDERAIL	---
---	STORM DRAIN W/ CATCH BASIN	---
---	UNDERGROUND ELECTRIC	---
---	UNDERGROUND COMMUNICATION	---
☀	LIGHT POST	☀
☀	ELECTRIC MANHOLE	☀
☀	ELECTRIC BOX	☀
☀	TRANSFORMER	☀
☀	SIGN	☀
☀	MAILBOX	☀
☀	WELL	☀
☀	MONUMENT	☀
☀	CONTROL POINT	☀
---	CURB	---
---	CONSTRUCTION EASEMENT LINE	---
---	DRAINAGE EASEMENT LINE	---
---	SEDIMENT EROSION CONTROL SYSTEM	---
---	CUT LIMIT	---
---	FILL LIMIT	---
---	BORING	☀ B-1

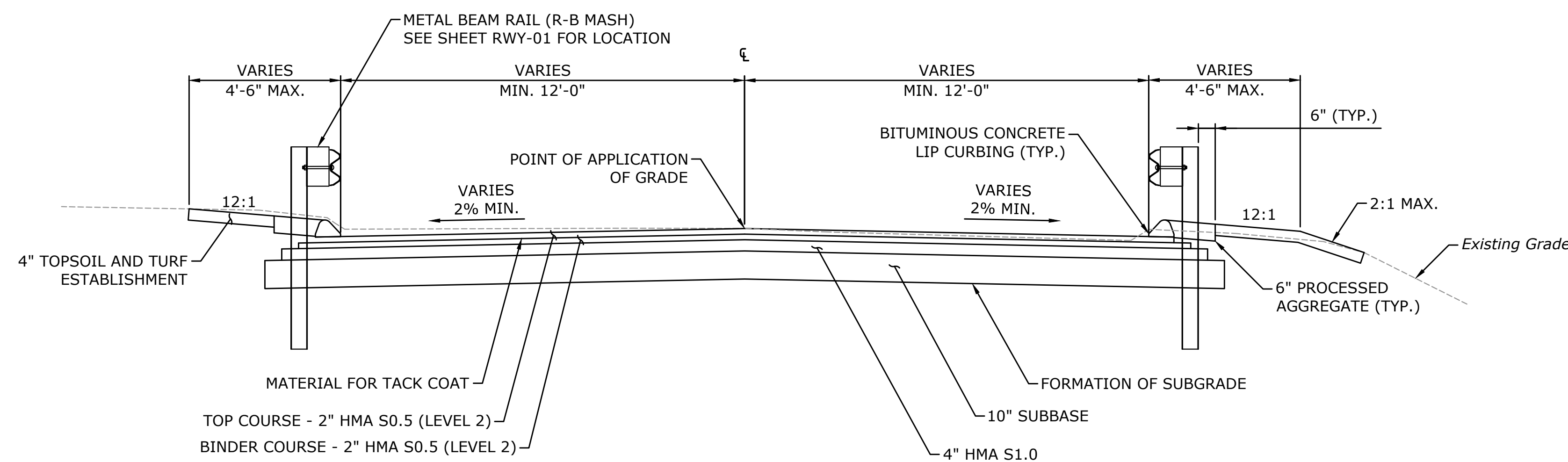


TYPICAL CHANNEL SECTION AT CULVERT

SCALE: 3/8" = 1'-0"

NOTE:

THE TOP COURSE OF MATERIAL PLACED BELOW THE ORDINARY HIGH WATER LINE, HEREIN REFERRED TO AS "NATIVE STREAMBED MATERIAL" SHALL CONSIST OF THE ITEMS "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL" AND "SUPPLEMENTAL STREAMBED CHANNEL MATERIAL" AS NEEDED TO GRADE THE PROPOSED CHANNEL FOLLOWING REMOVAL OF THE EXISTING CORRUGATED STEEL ARCH PIPE CULVERTS.



TYPICAL ROADWAY SECTION

SCALE: 3/8" = 1'-0"



99 BEAULT DRIVE
203.271.7773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

TYPICAL SECTION, GENERAL NOTES & LEGEND
 REPLACEMENT OF INDUSTRIAL AVENUE
 BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

KP	WRS	KP
DESIGNED	DRAWN	CHECKED
AS SHOWN		
JANUARY 30, 2024		
DATE		
11047.00059		
PROJECT NO.		
N-01		
DRAWING NO.		

02

NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019.

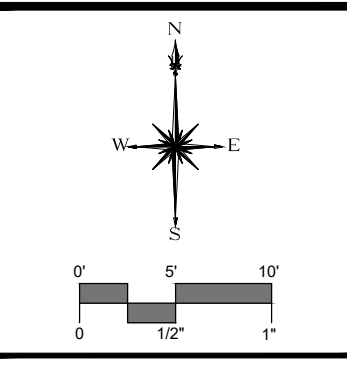
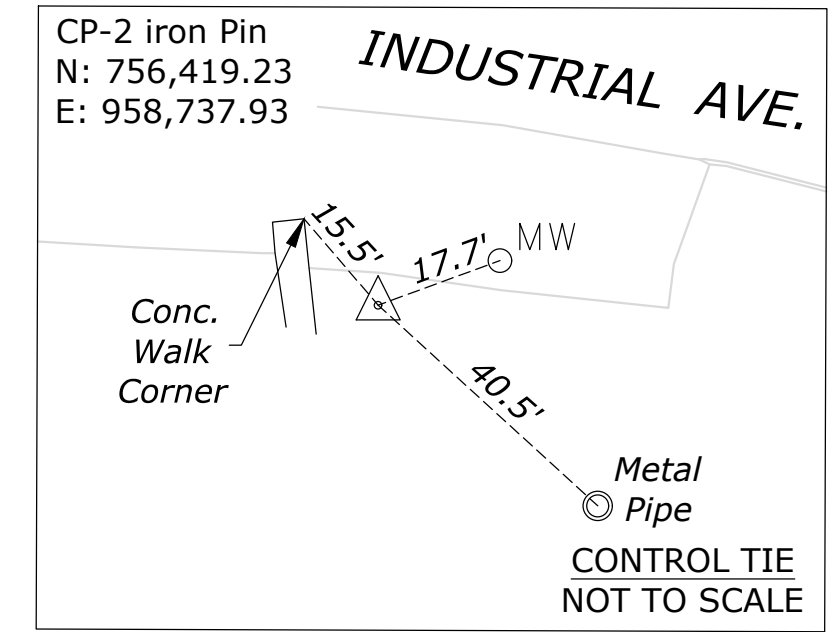
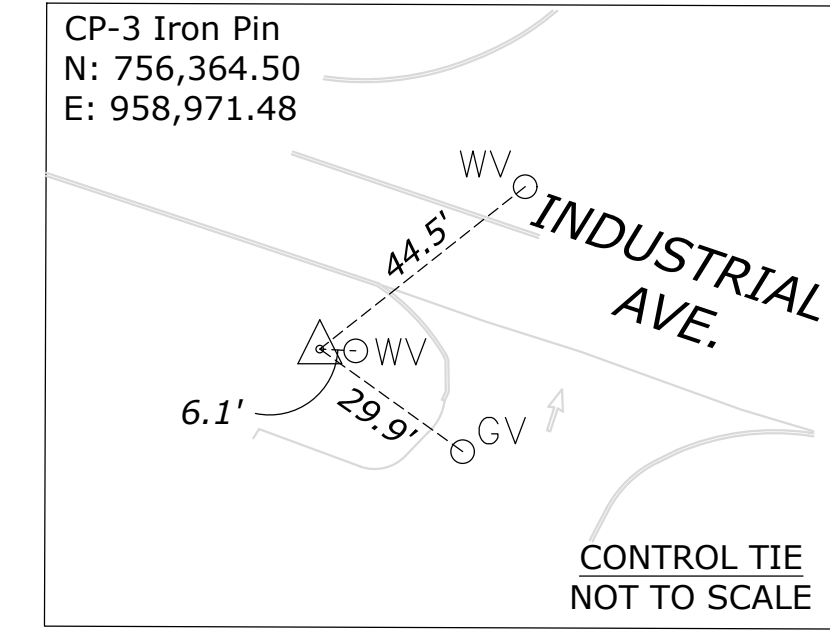
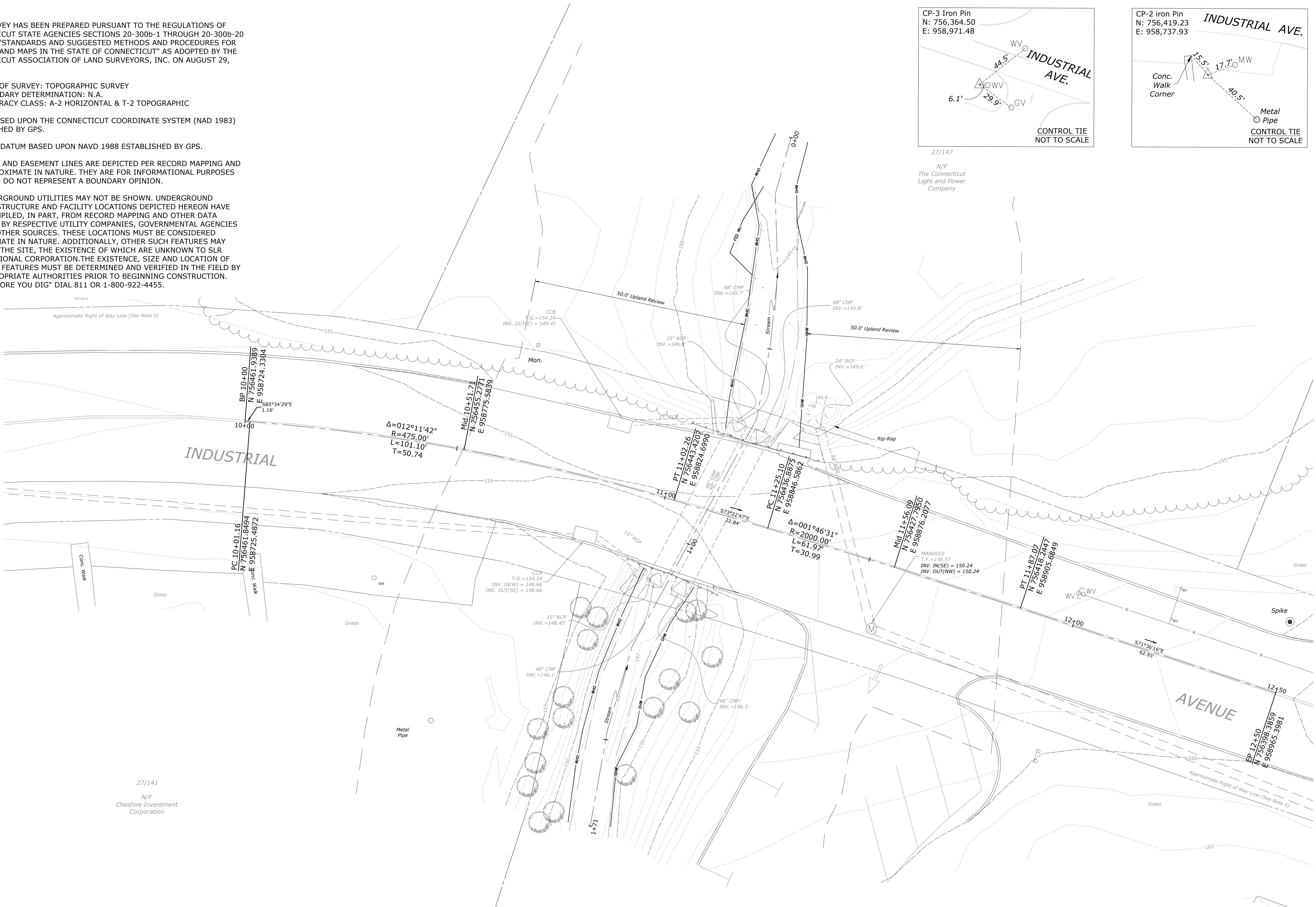
TYPE OF SURVEY: TOPOGRAPHIC SURVEY
 BOUNDARY DETERMINATION: N.A.
 ACCURACY CLASS: A-2 HORIZONTAL & T-2 TOPOGRAPHIC

2. NORTH BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983) ESTABLISHED BY GPS.

3. VERTICAL DATUM BASED UPON NAVD 1988 ESTABLISHED BY GPS.

4. PROPERTY AND EASEMENT LINES ARE DEPICTED PER RECORD MAPPING AND ARE APPROXIMATE IN NATURE. THEY ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT A BOUNDARY OPINION.

5. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO SLR INTERNATIONAL CORPORATION. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO BEGINNING CONSTRUCTION. "CALL BEFORE YOU DIG" DIAL 811 OR 1-800-922-4455.



DESCRIPTION	DATE	BY

EXISTING CONDITIONS & BASELINE INFORMATION
 REPLACEMENT OF INDUSTRIAL AVENUE
 BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

DESIGNED	WRS	KP
DRAWN		CHECKED
1"=10'		
JANUARY 30, 2024		
DATE		
11047.00059		
PROJECT NO.		
EX-01		
DRAWING NO.		

03
 SHEET NO.

I HEREBY CERTIFY THAT THE INLAND WETLAND BOUNDARY AND WATERCOURSE LINE(S) AS SHOWN ON THIS MAP ARE SUBSTANTIALLY CORRECT.

MATTHEW SANFORD - CERTIFIED SOIL SCIENTIST

STATE PROJECT NO. 9025-0030

SCHEDULE OF SIGNS

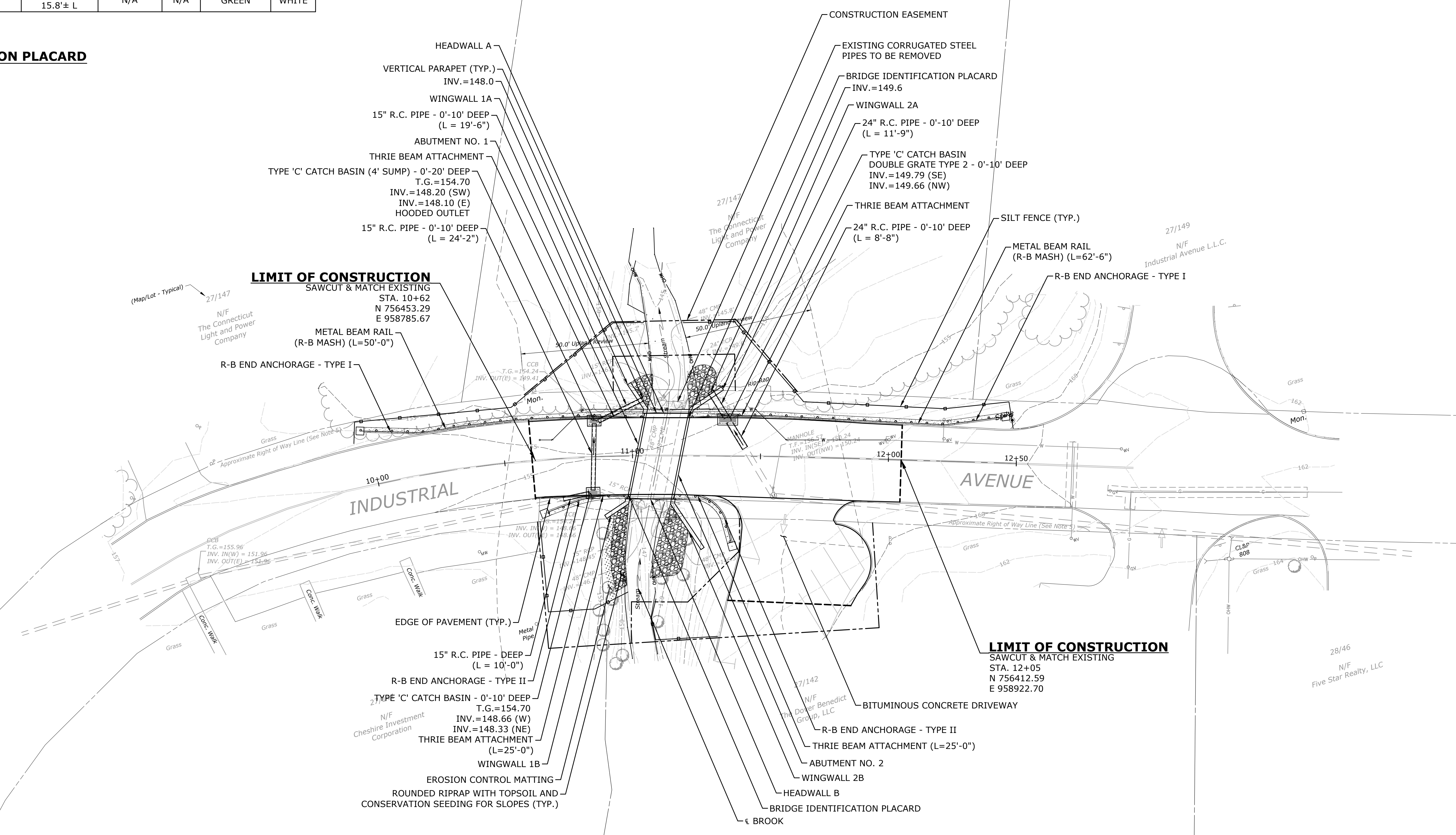
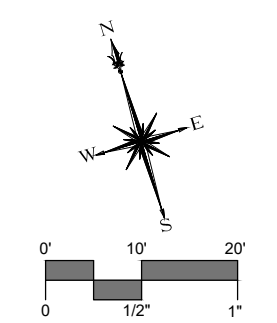
CTDOT SIGN NO.	SIZE	LEGEND	LOCATION	ALUMINUM THICKNESS	POSTS	BACKGROUND COLOR	LEGEND COLOR
N/A	12"x4"	025030	STA. 10+94.2±, 14.9'± R	N/A	N/A	GREEN	WHITE
N/A	12"x4"	025030	STA. 11+52.7±, 15.8'± L	N/A	N/A	GREEN	WHITE

025030 4"
12"

BRIDGE IDENTIFICATION PLACARD
NOT TO SCALE

NOTES

REMOVAL OF EXISTING R.C. DRAINAGE STRUCTURE AND STEEL ARCH PIPES SHALL BE PAID UNDER ITEM "REMOVAL OF EXISTING CULVERT".



LIMIT OF CONSTRUCTION

SAWCUT & MATCH EXISTING
STA. 10+62
N 756453.29
E 958785.67

LIMIT OF CONSTRUCTION

SAWCUT & MATCH EXISTING
STA. 12+05
N 756412.59
E 958922.70

SIGN NOTES:

- SIGNS SHALL BE FABRICATED FROM ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
- SIGNS SHALL BE PAID FOR UNDER ITEM "SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)".

BRIDGE IDENTIFICATION PLACARDS:

THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION PLACARDS ON THE SIGN POST BELOW SIGN 51-2009 ON THE LEADING ENDS OF THE BRIDGE AS INDICATED ON THE PLANS. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4"x12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ: 025030. THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGN SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE IDENTIFICATION PLACARDS SHALL BE PAID UNDER THE ITEM #1208931 - SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING).

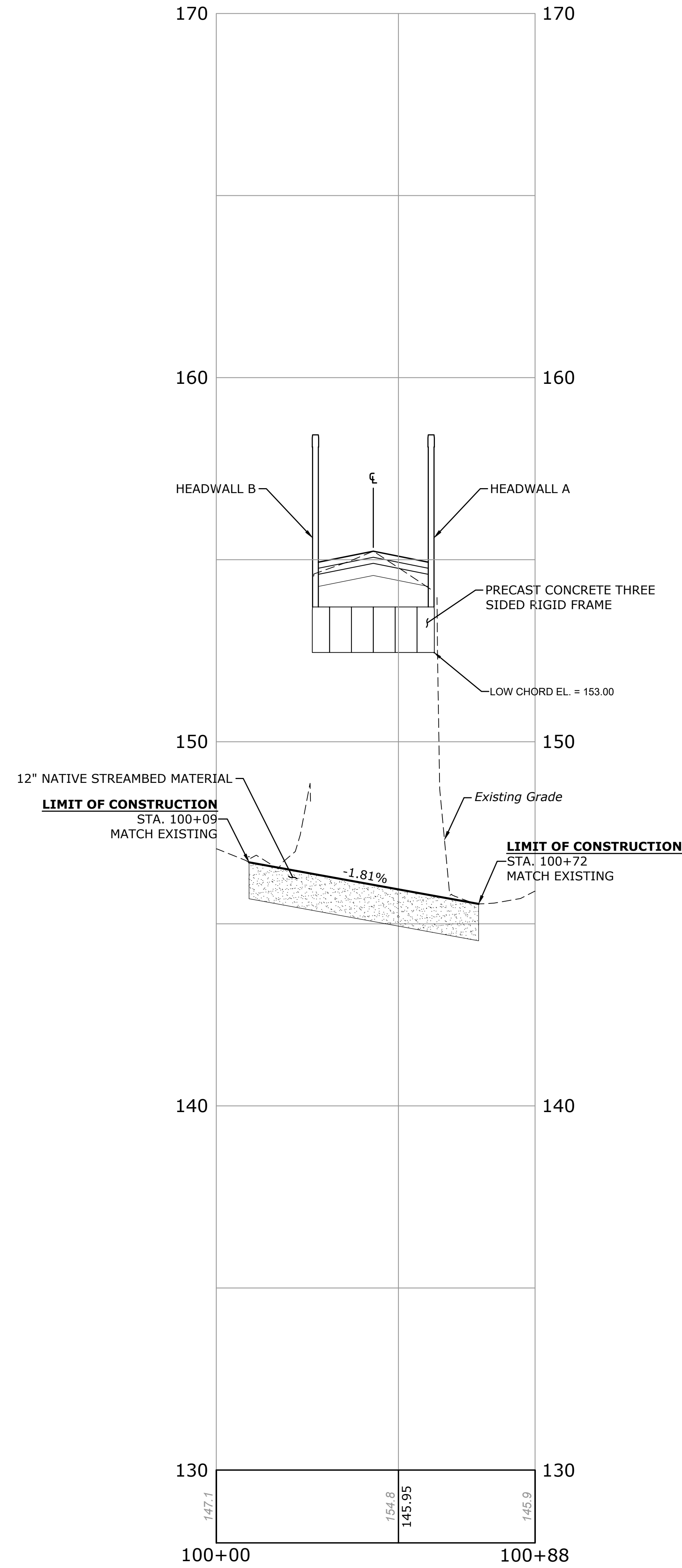
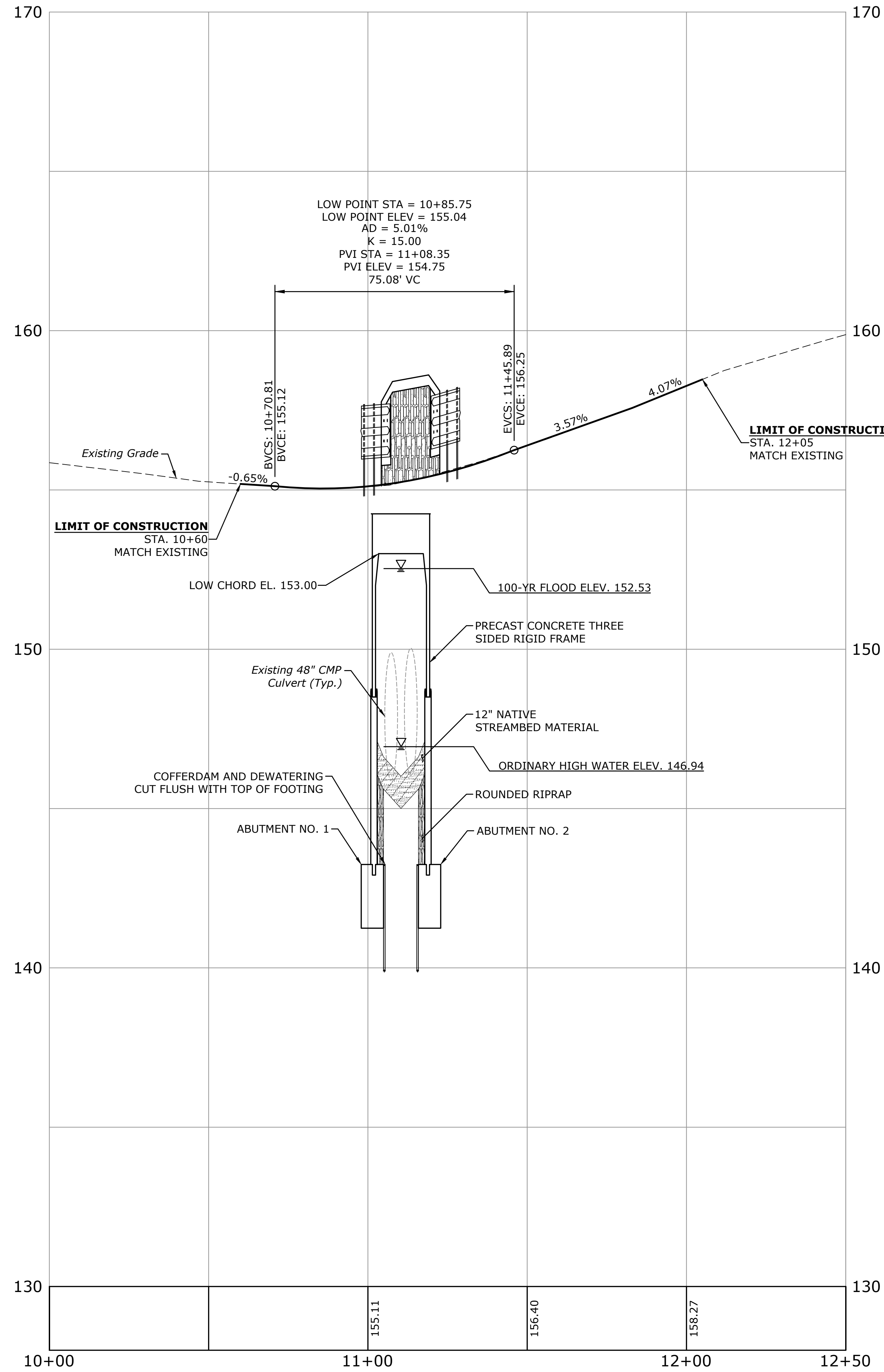


DESCRIPTION	DATE	BY

ROADWAY PLAN
REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM
INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

DESIGNED	WRS	DESIGNED	DRWN	DESIGNED	CHECKED

SCALE: 1"=20'
DATE: JANUARY 30, 2024
PROJECT NO.: 11047.00059
DRAWING NO.: RWY-01



DESCRIPTION	DATE	BY

ROADWAY AND CHANNEL PROFILE
REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

DESIGNED	WRS	KP
DRAWN		CHECKED
SCALE: 1"=20'		
DATE: JANUARY 30, 2024		
PROJECT NO. 11047.00059		
DRAWING NO. PRO-01		

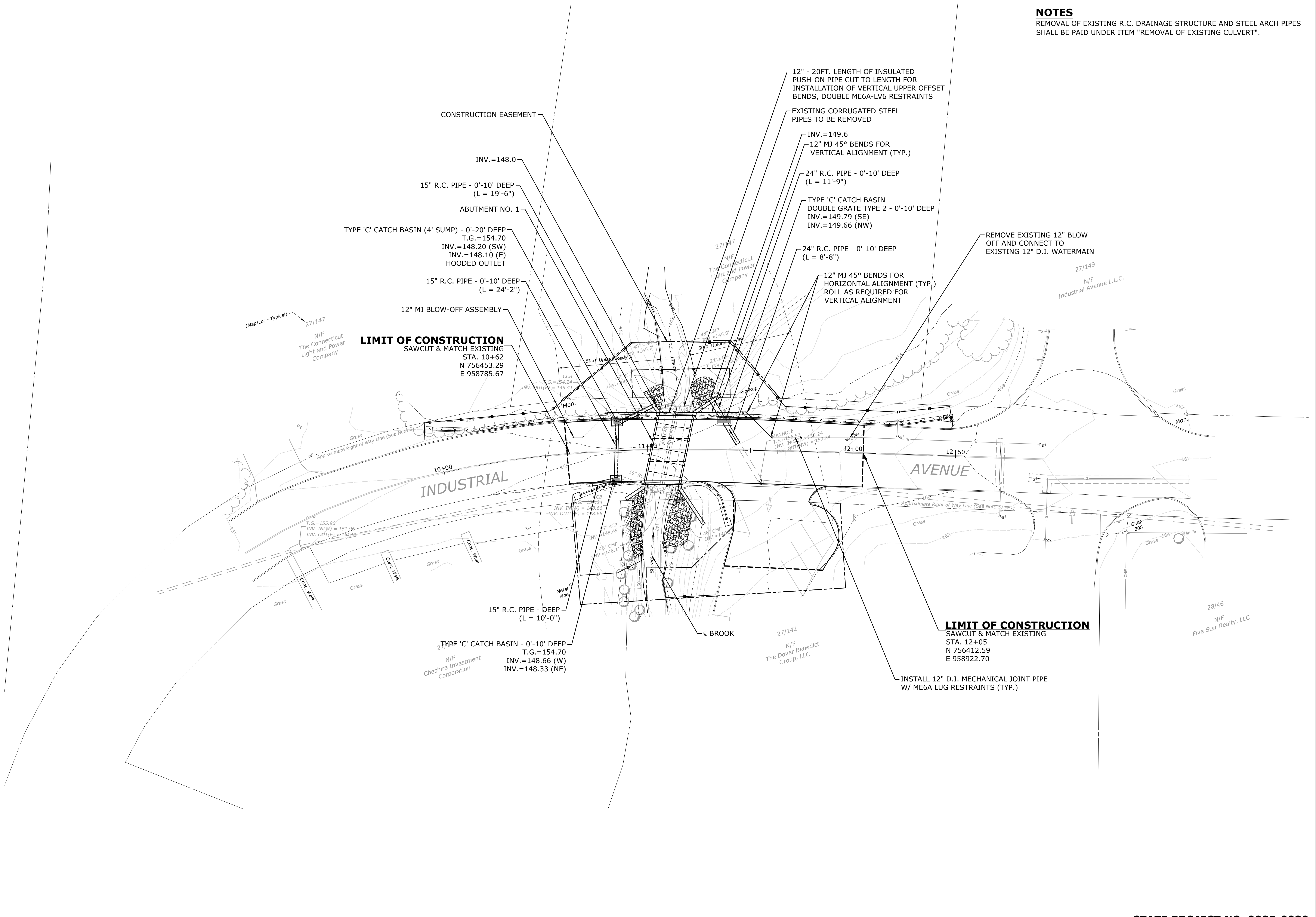
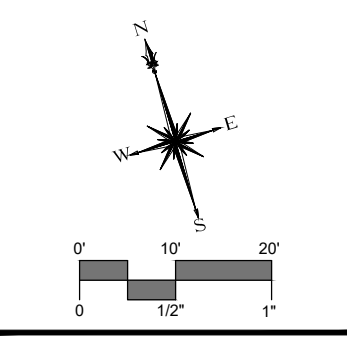
05

STATE PROJECT NO. 9025-0030

9025-0030-05 - CHESHIRE COUNTY, CONNECTICUT
 PROJECT NO. 11047.00059
 DRAWING NO. PRO-01
 SHEET NO. 05

PROJECT NO. 11047.00059
 DRAWING NO. UTIL-01
 SHEET NO. 06
 DATE: JANUARY 30, 2024
 SCALE: 1"=20'
 PROJECT: REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM, INDUSTRIAL AVENUE, CHESHIRE, CONNECTICUT
 CLIENT: STATE OF CONNECTICUT
 DESIGNER: SLR INTERNATIONAL CORPORATION
 PROJECT MANAGER: [REDACTED]
 DESIGNER: [REDACTED]
 CHECKER: [REDACTED]
 DATE: [REDACTED]

NOTES
 REMOVAL OF EXISTING R.C. DRAINAGE STRUCTURE AND STEEL ARCH PIPES SHALL BE PAID UNDER ITEM "REMOVAL OF EXISTING CULVERT".



DESCRIPTION	DATE	BY

UTILITY PLAN
 REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

DESIGNED	NP	KP
DRAWN		CHECKED
SCALE: 1"=20'		
DATE: JANUARY 30, 2024		
PROJECT NO. 11047.00059		
DRAWING NO. UTIL-01		

06
 SHEET NO.

27/147

N/F
The Connecticut
Light and Power
Company

SURVEY NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019.
TYPE OF SURVEY - RIGHT OF WAY
BOUNDARY DETERMINATION - ORIGINAL (EASEMENTS)
ACCURACY CLASS - A-2/BASELINE; D/BASE MAPPING
THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. THIS PLAN IS INTENDED TO DEPICT LOCATIONS OF EASEMENTS NECESSARY FOR CONSTRUCTION PURPOSES.
- NORTH BASED ON THE MERIDIAN ESTABLISHED PER MAP REFERENCE IN NOTE 4.A. (NAD 83).
- VERTICAL DATUM DEPICTED PER MAP REFERENCE IN NOTE 4.A. (NAVD88).
- REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:
A. "TOPOGRAPHIC SURVEY PORTION OF INDUSTRIAL AVENUE, CHESHIRE, CONNECTICUT PREPARED FOR TOWN OF CHESHIRE" BY SLR, SCALE: 1"=20', DATE: APRIL 2, 2021
B. "REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO.025030) OVER UNNAMED STREAM INDUSTRIAL AVENUE, CHESHIRE, CONNECTICUT CTDOT PROJECT NO.9025-0030" BY SLR, DATED APRIL 21, 2023
- ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO SLR INTERNATIONAL CORPORATION THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO BEGINNING OF EXCAVATION AND/OR CONSTRUCTION.
CALL BEFORE YOU DIG DIAL 811 OR 1-800-922-4455.

THE CONNECTICUT LIGHT AND POWER COMPANY

DEFINED EASEMENT TO CONSTRUCT AND MAINTAIN WINGWALLS.
AREA = 652 ± SQ.FT.

CONSTRUCTION EASEMENT FOR THE PURPOSE OF PROVIDING A WORK AREA FOR THE REPLACEMENT OF BRIDGE NO. 025030. TO INCLUDE TEMPORARY DRAINAGE AND WATER HANDLING COFFERDAM. CONSTRUCTION EASEMENT TAKEN UNDER THIS PARAGRAPH WILL BE RESTORED BY REMOVING ALL TEMPORARY CONSTRUCTION EQUIPMENT AND BY GRADING AND SEEDING ANY DISTURBED AREAS. SAID EASEMENT WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
AREA = 1454 ± SQ.FT.

27/147

N/F
The Connecticut
Light and Power
Company

APPROXIMATE STREET LINE (TYP.)

LIMIT OF DEFINED EASEMENT

LIMIT OF CONSTRUCTION EASEMENT

INDUSTRIAL

AVENUE

CHESHIRE INVESTMENT CORPORATION

CONSTRUCTION EASEMENT FOR THE PURPOSE OF PROVIDING A WORK AREA FOR THE REPLACEMENT OF BRIDGE NO. 025030. TO INCLUDE TEMPORARY DRAINAGE AND WATER HANDLING COFFERDAM. CONSTRUCTION EASEMENT TAKEN UNDER THIS PARAGRAPH WILL BE RESTORED BY REMOVING ALL TEMPORARY CONSTRUCTION EQUIPMENT AND BY GRADING AND SEEDING ANY DISTURBED AREAS. SAID EASEMENT WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
AREA = 1120 ± SQ.FT.

THE DOVER BENEDICT GROUP, LLC

DEFINED EASEMENT TO CONSTRUCT AND MAINTAIN WINGWALLS.
AREA = 1736 ± SQ.FT.

CONSTRUCTION EASEMENT FOR THE PURPOSE OF PROVIDING A WORK AREA FOR THE REPLACEMENT OF BRIDGE NO. 025030. TO INCLUDE TEMPORARY DRAINAGE AND WATER HANDLING COFFERDAM. CONSTRUCTION EASEMENT TAKEN UNDER THIS PARAGRAPH WILL BE RESTORED BY REMOVING ALL TEMPORARY CONSTRUCTION EQUIPMENT AND BY GRADING AND SEEDING ANY DISTURBED AREAS. SAID EASEMENT WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
AREA = 3159 ± SQ.FT.

27/141

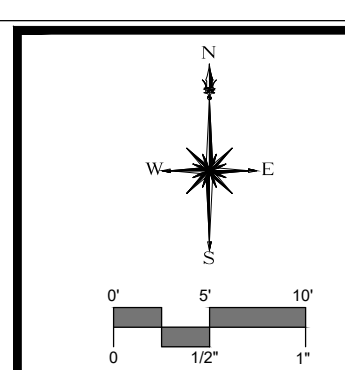
N/F
Cheshire Investment
Corporation

27/142

N/F
The Dover Benedict
Group, LLC

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

GREGORY A. SZYSZKOWSKI CT L.S. #70095
MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL. UNAUTHORIZED ALTERATIONS SHALL RENDER THIS PLAN NULL & VOID.



DESCRIPTION	DATE	BY
REVISED PER COMMENTS	03/30/23	KP
NOTES ADDED; MAP UPDATED	06/28/23	GS

RIGHT-OF-WAY SURVEY
MAP SHOWING EASEMENTS ACQUIRED BY TOWN OF CHESHIRE
REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

KP	WRS	KP
DESIGNED	DRAWN	CHECKED

SCALE: 1"=10'
 DATE: MARCH 30, 2023
 PROJECT NO.: 11047.00059
 DRAWING NO.: ROW-01
 SHEET NO.: 07

STATE PROJECT NO. 9025-0030

DETOUR SIGN LEGEND

PLAN DESIGNATION	MESSAGE	SIZE	MUTCD/CONNDOT DESIGNATION
(A)	INDUSTRIAL AVE CLOSED 1/2 MILE EAST <small>LOCAL TRAFFIC ONLY</small>	60"x30" 60"x10"	80-9928 80-9913
(B)	INDUSTRIAL AVE DETOUR ↑	60"x10" 24"x12" 21"x15"	80-9913 80-9707 51-2625
(C)	INDUSTRIAL AVE DETOUR →	60"x10" 48"x18"	80-9913 80-9707
(D)	INDUSTRIAL AVE CLOSED 1/2 MILES AHEAD FOLLOW DETOUR	60"x10" 60"x30"	80-9913 80-9928
(E)	INDUSTRIAL AVE CLOSED AHEAD LOCAL TRAFFIC ONLY DETOUR →	60"x30" 48"x18"	80-9928 80-9701
(F)	INDUSTRIAL AVE ← DETOUR	60"x10" 48"x18"	80-9913 80-9702
(G)	BEGINNING (DATE) ROAD CLOSED USE DETOUR	60"x30"	80-9928
(H)	ROAD CLOSED	48"x30"	80-9080*
(I)	STOP	48"	31-0557*
(J)	BRIDGE CLOSED	60"x30"	80-9082

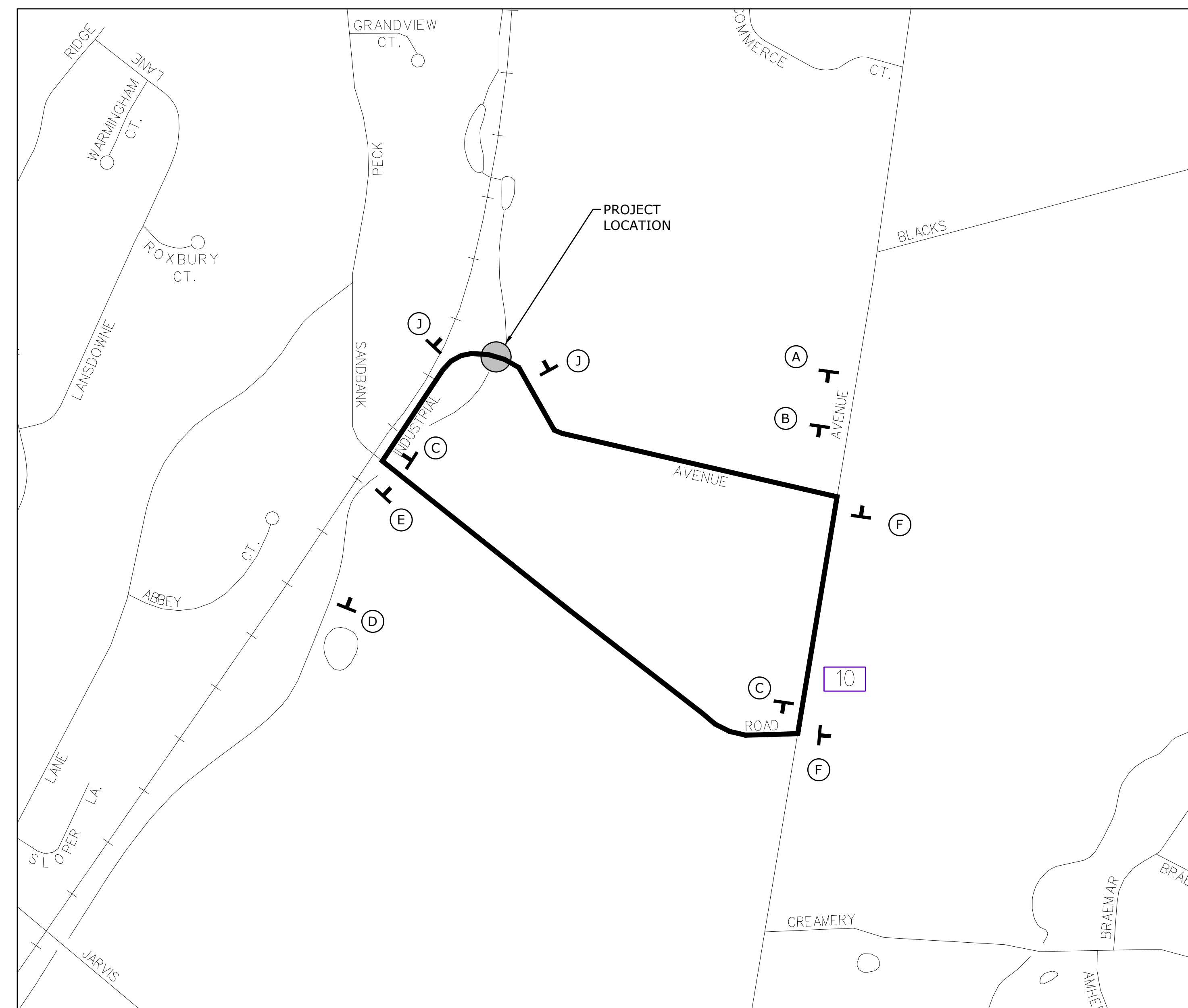
* USE BARRICADE WARNING LIGHT - HIGH INTENSITY

DETOUR NOTES:

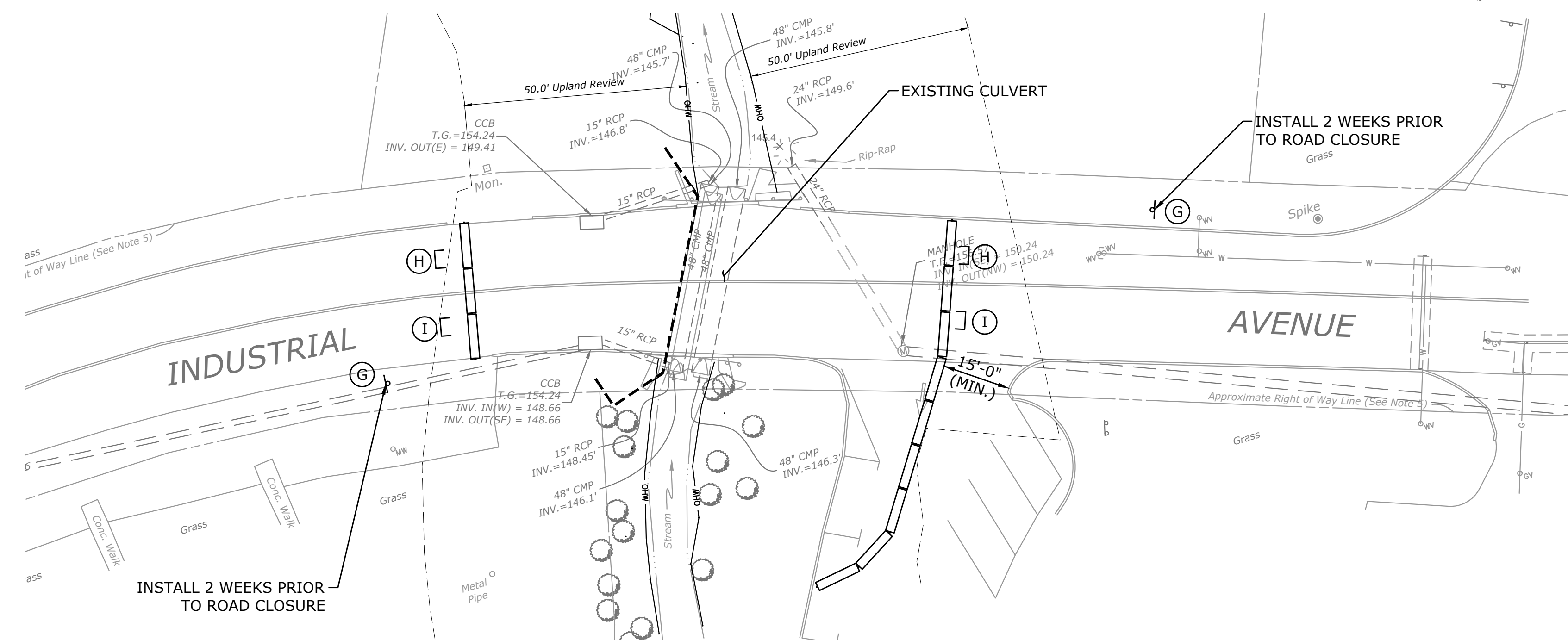
- DETOUR SIGNS SHALL BE COVERED WHEN THE DETOUR IS NOT IN OPERATION.
- DETOUR SIGNS SHALL BE REMOVED WHEN THE DETOUR IS NO LONGER REQUIRED.
- THE COST OF THE DETOUR SIGNS SHALL BE PAID FOR UNDER ITEM NO. 1220027 CONSTRUCTION SIGNS. STOP SIGNS SHALL BE PAID FOR UNDER ITEM NO. 1208931 SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING).
- CONTRACTOR SHALL NOTIFY STATE, TOWN AND EMERGENCY SERVICES AT LEAST 14 DAYS IN ADVANCE OF ROAD CLOSURE/DETOUR.
- MOVING TEMPORARY TRAFFIC BARRIERS AND CONSTRUCTION BARRICADES FOR DAILY ACCESS TO THE WORK AREA WILL NOT BE MEASURED FOR PAYMENT.
- WHERE POST MOUNTED, CONSTRUCTION SIGNS SHALL BE MOUNTED ON BREAKAWAY POSTS.
- EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
- ACTUAL LOCATION OF DETOUR SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LEGEND

- ⊥ TEMPORARY CONSTRUCTION SIGN
- [CONSTRUCTION BARRICADE TYPE III
- ▬ TEMPORARY TRAFFIC BARRIER



DETOUR PLAN
SCALE: 1" = 400'



ROAD CLOSURE PLAN
SCALE: 1" = 20'



96 BEATTY DRIVE
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DESCRIPTION	DATE	BY

DETOUR PLAN
REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM
INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

DESIGNED	WRS	DESIGNED	WRS	DESIGNED	WRS
DRAWN		DRAWN		DRAWN	
CHECKED		CHECKED		CHECKED	
AS SHOWN					
DATE					
JANUARY 30, 2024					
PROJECT NO.					
11047.00059					
DRAWING NO.					
MPT-01					

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL
 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 CONSTRUCTION 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.

THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL MEASURES ON SITE.

THE ENGINEER OF RECORD SHALL SUBMIT SEDIMENT AND EROSION CONTROL REPORTS TO THE INLAND WETLANDS AND WATERCOURSES AGENCY ON A WEEKLY BASIS AND AFTER RAINFALL EVENTS GREATER THAN ONE HALF INCH (0.5"), WHICHEVER IS SOONER.

THE CONTRACTOR SHALL MONITOR WEATHER REPORTS AND BE PREPARED TO STABILIZE THE SITE IF MORE THAN ONE HALF INCH (0.5") OF RAINFALL IS PREDICTED BY THE NATIONAL WEATHER SERVICE (70% CHANCE OR HIGHER).

THE CONTRACTOR SHALL MAINTAIN A STOCKPILE OF SEDIMENT AND EROSION CONTROL MATERIALS FOR THE PURPOSE OF MAINTAINING AND/OR REPAIRING PROPOSED SEDIMENT AND EROSION CONTROL MEASURES.

NO BYPASS PUMPING OF THE WATERCOURSE IS PROPOSED AS A PART OF THIS PROJECT.

LAND GRADING

- GENERAL**
- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
 - PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
 - EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
 - NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
 - PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOP SOILING

- GENERAL**
- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
 - UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
 - REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
 - APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL

- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF LARGE STONES, LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
- AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
- SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
- THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION

- AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE PLANS.

PERMANENT VEGETATIVE COVER

GENERAL

- PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
- APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

*SPREAD SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.

*FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.)

PLANTING NOTES

- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS. WATER AS NECESSARY TO ESTABLISH TURF.
- ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
- IN AREAS OF SEEDING - TOPSOIL TO CONTAIN 6-12% ORGANIC CONTENT (BY WEIGHT), AMEND SOIL WITH ORGANIC MATTER (LEAF COMPOST).

EROSION CHECKS

GENERAL

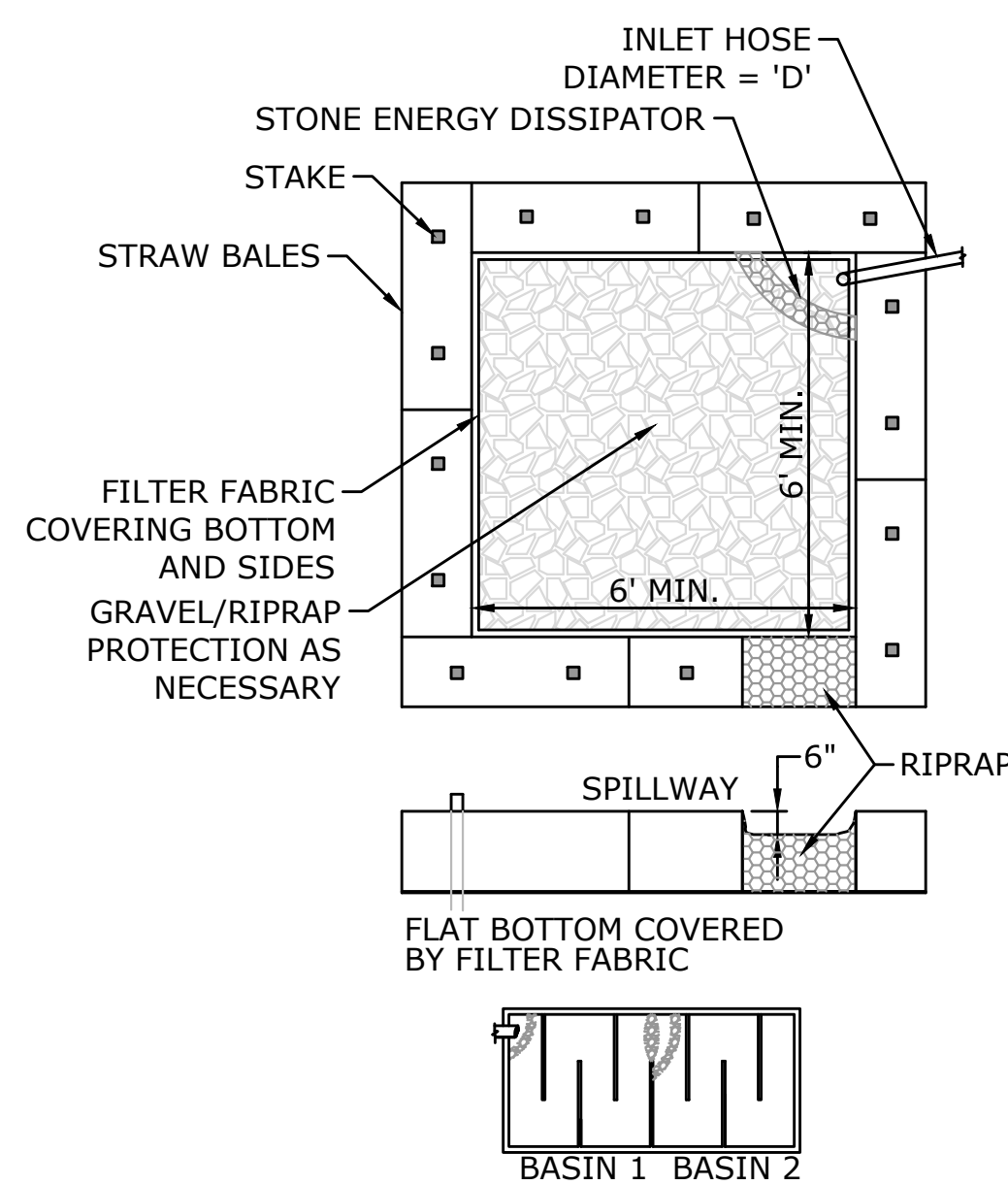
- TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION

- BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR INCHES (4").
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

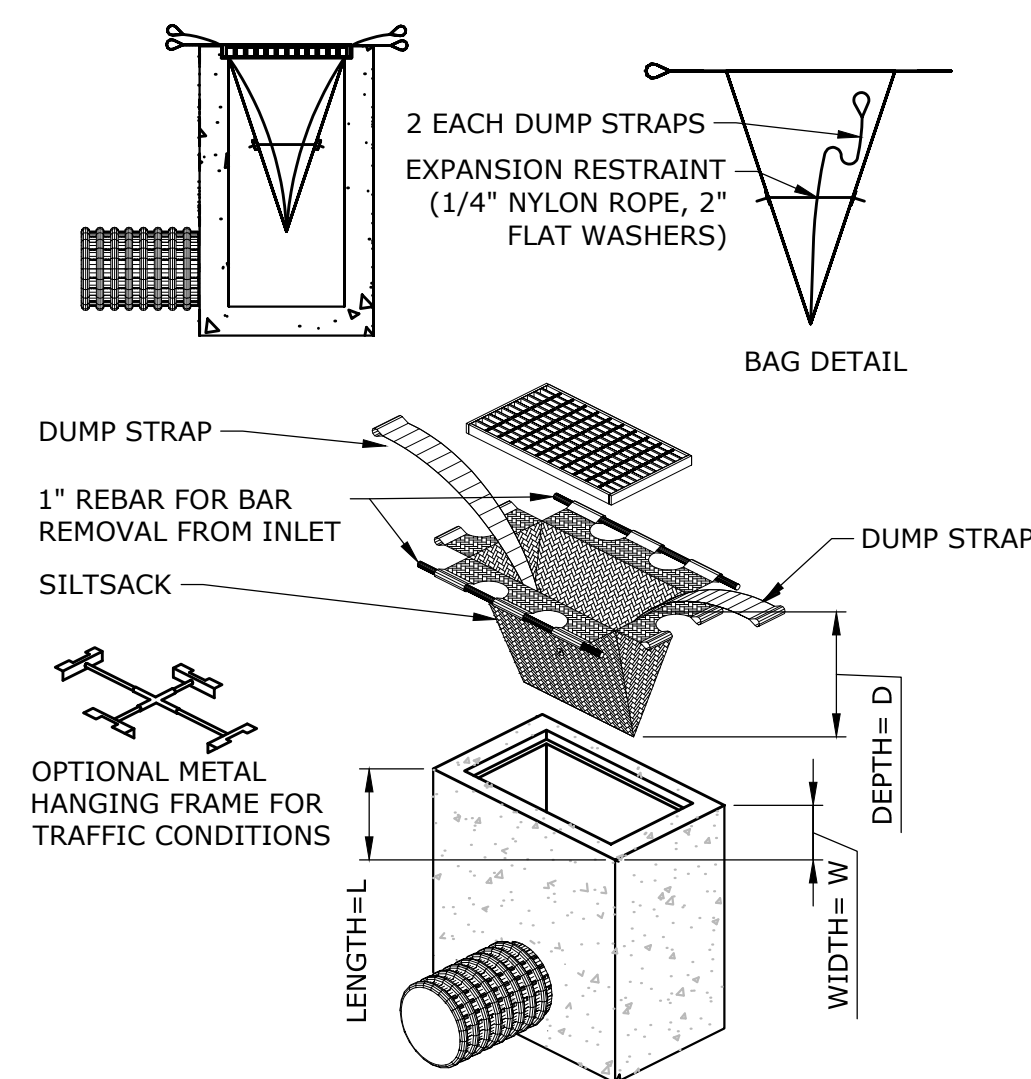
INSTALLATION AND MAINTENANCE

- BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
- ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

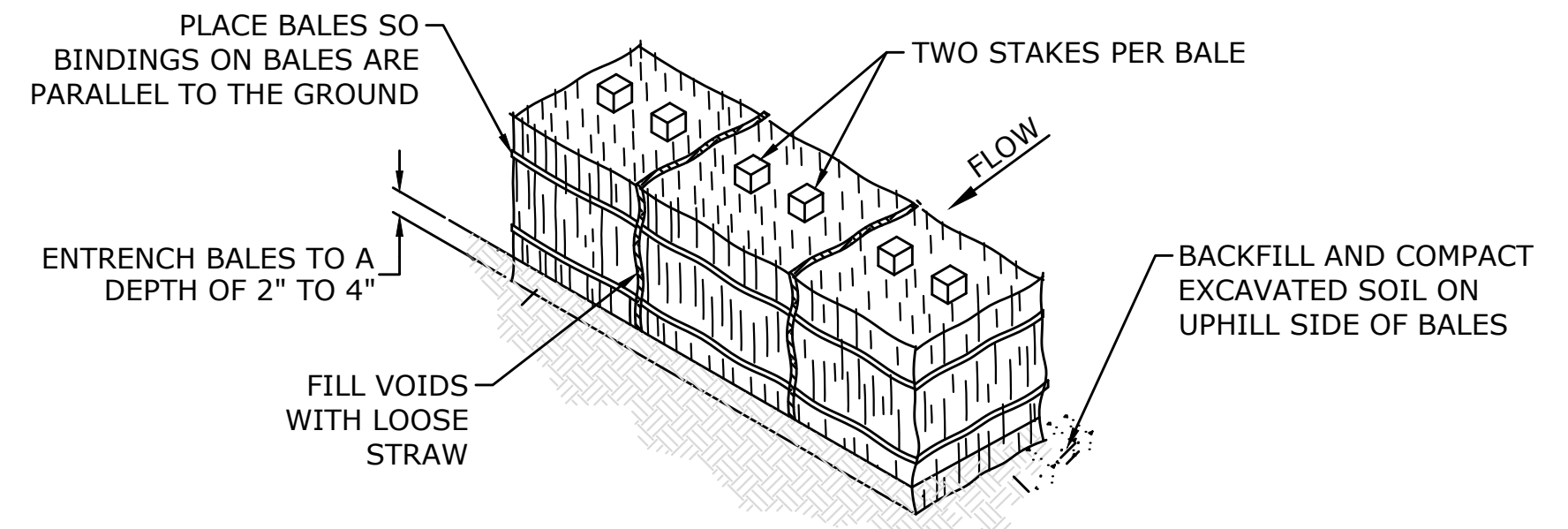


TEMPORARY DEWATERING BASIN

- NOTE**
- IF PUMPING VOLUME EXCEEDS BASIN CAPACITY, BASIN MAY BE USED IN TANDEM OR TIERS.
 - INCREASE RIPRAP SIZE ON BASIN BOTTOM AS NECESSARY TO MAINTAIN SEDIMENT-FREE DISCHARGE WATERS.
 - TEMPORARY DEWATERING BASIN SHALL BE PAID FOR UNDER "HANDLING WATER".

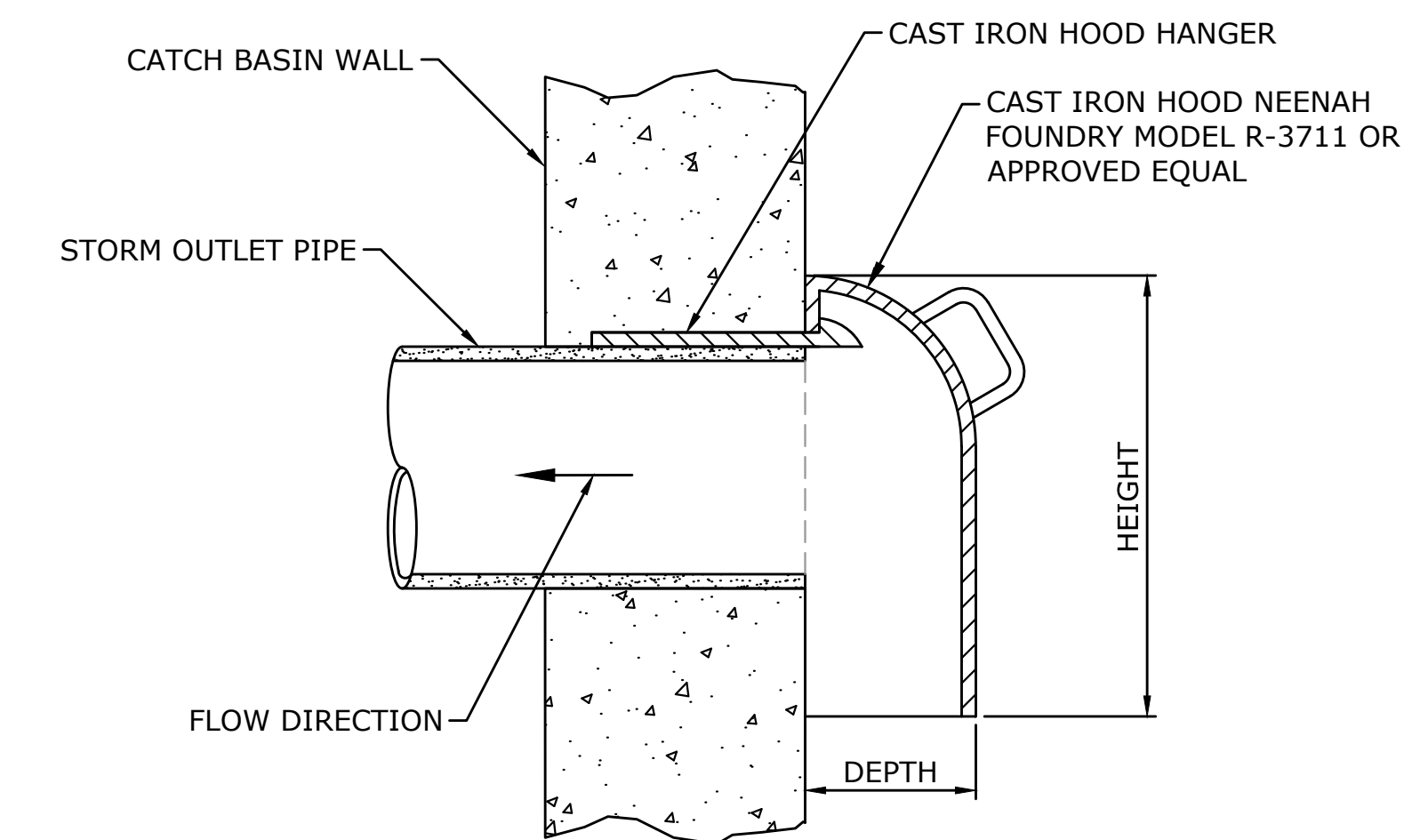


SEDIMENT CONTROL SYSTEM AT CATCH BASIN

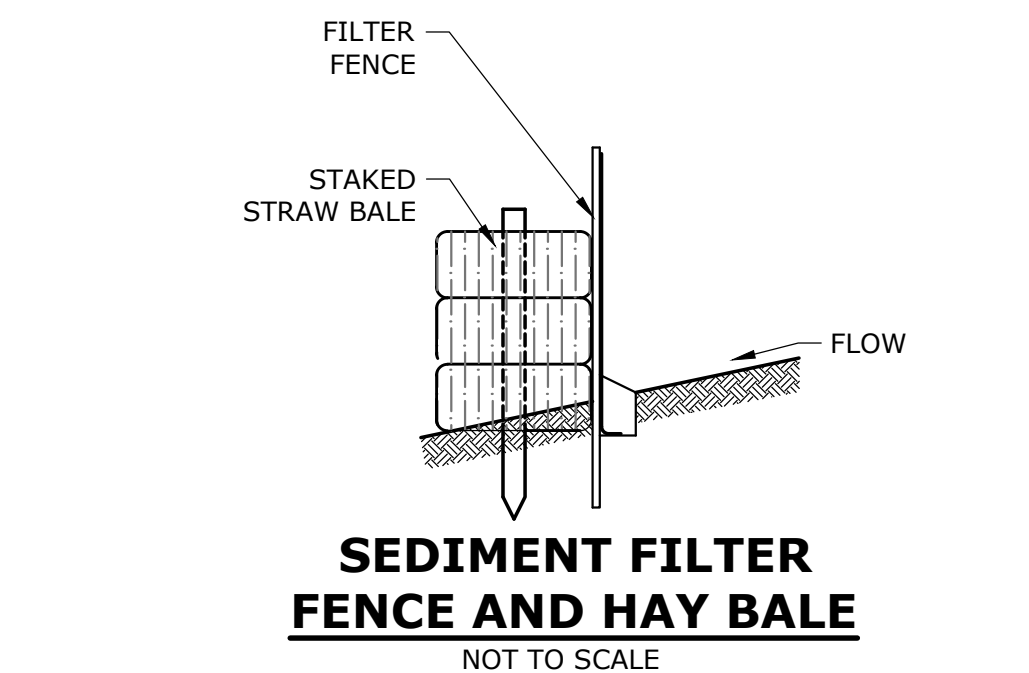


- IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
- BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
- WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTION BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
- UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

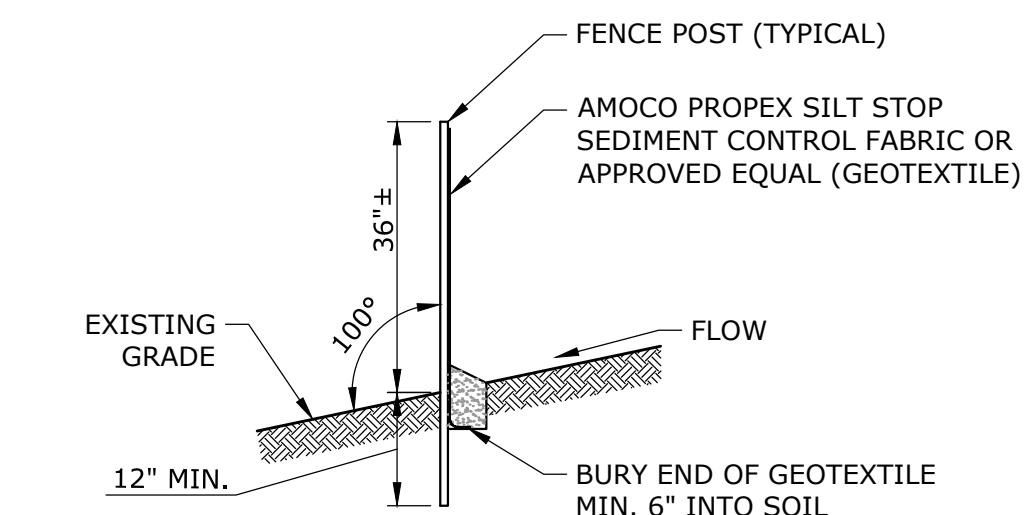
HAYBALE BARRIER PROTECTION



CATCH BASIN HOOD DETAIL



SEDIMENT FILTER FENCE AND HAY BALE



SEDIMENT FILTER FENCE

EROSION CONTROL MAINTENANCE INTERVALS				
EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO 1/2 THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
HAY BALES (HB)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO 1/2 THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	HAY BALES MAY BE REMOVED AFTER UPHILL AREAS HAVE BEEN PERMANENTLY STABILIZED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.

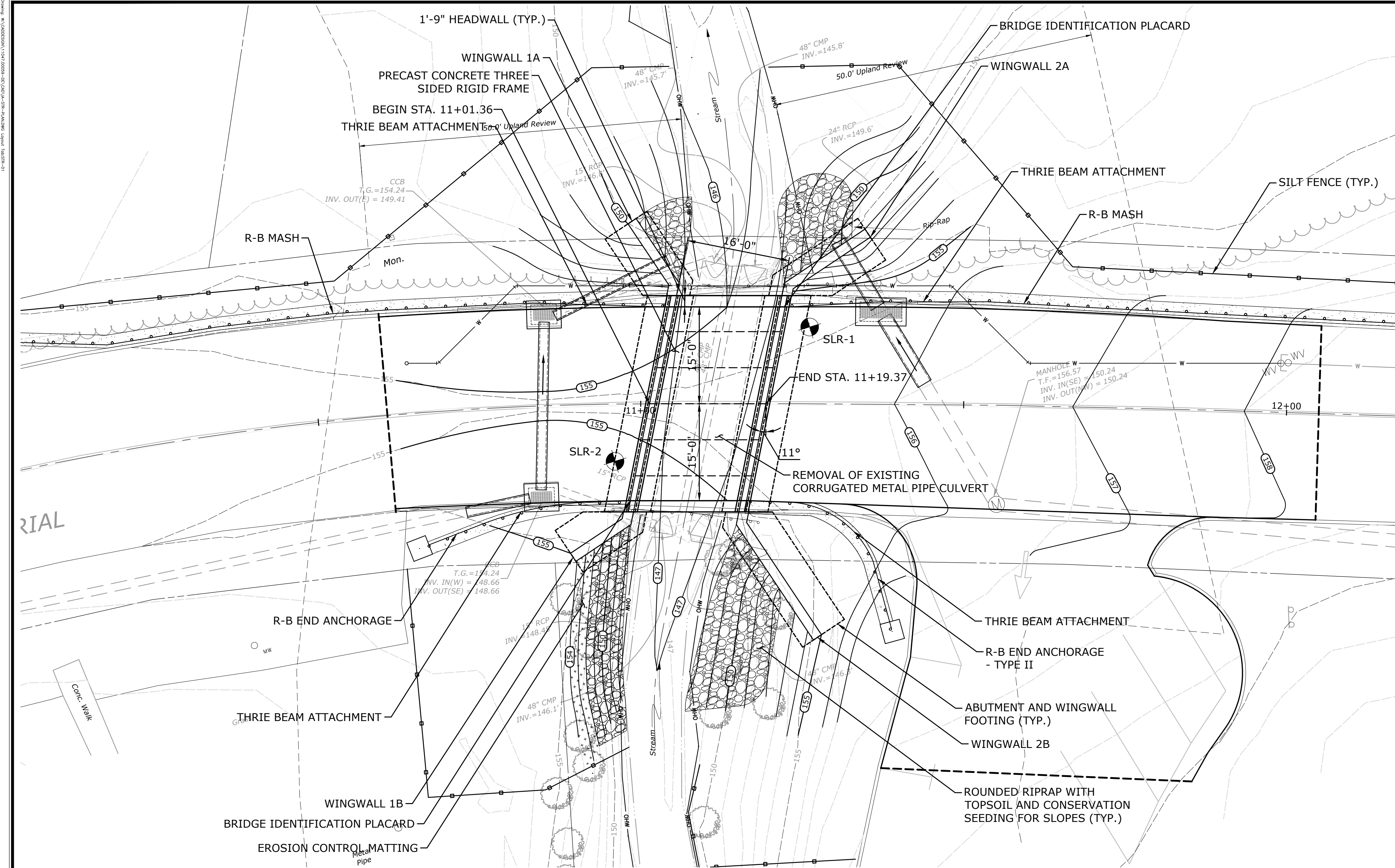


DESCRIPTION	DATE	BY

SEDIMENT & EROSION CONTROL PLAN
 REPLACEMENT OF INDUSTRIAL AVENUE
 BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

KP	WRS	KP
DESIGNED	DRAWN	CHECKED
SCALE: AS SHOWN		
DATE: JANUARY 30, 2024		
PROJECT NO.: 11047.00059		
DRAWING NO.: SE-01		

10/20/2018, 10:48 AM, PROJECT: 11047.00059, SHEET: 09 OF 10, FILE: 11047.00059_09.dwg, PLOT: 11047.00059_09.plt, PLOT DATE: 1/30/2024 10:48 AM

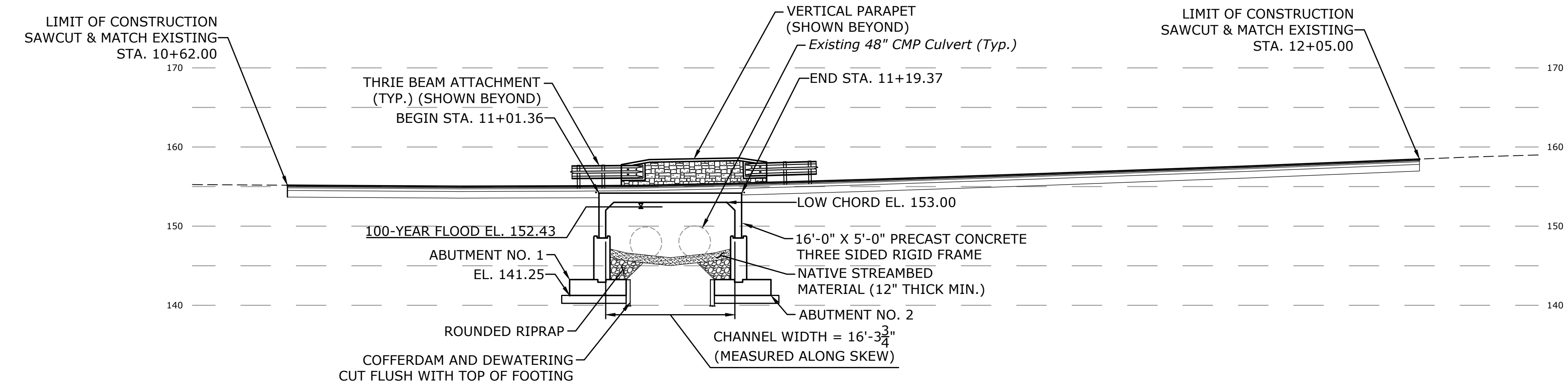


PLAN
SCALE: 1" = 10'-0"

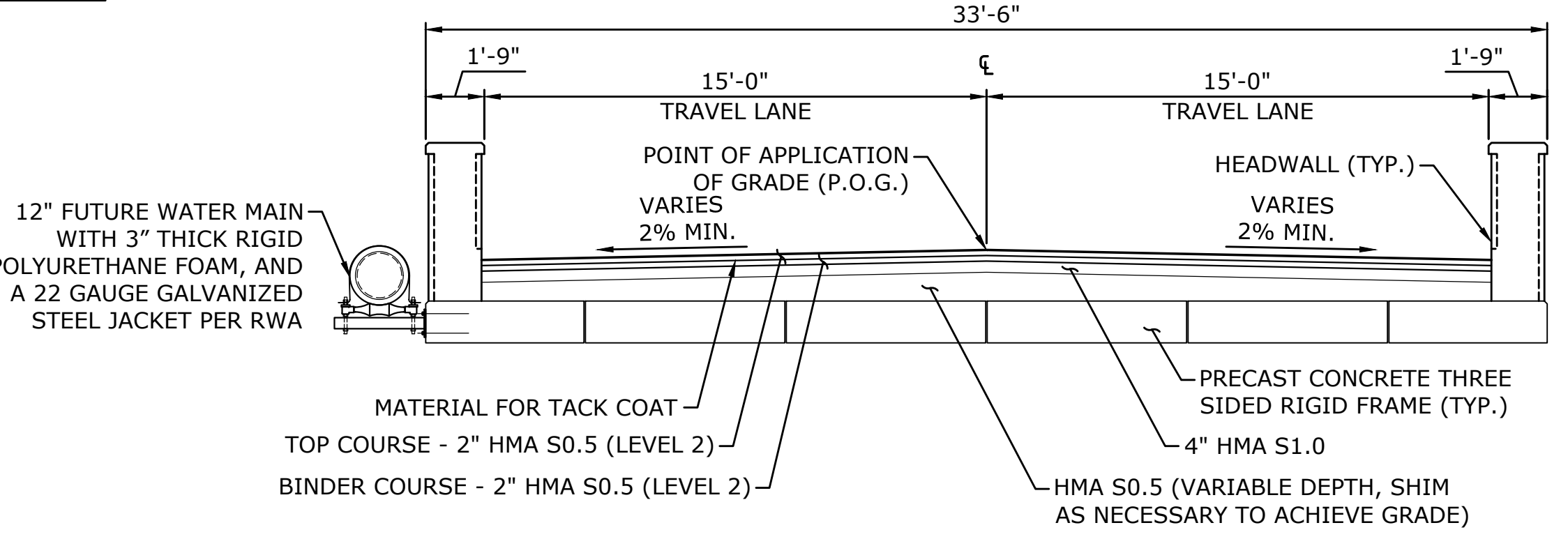
HYDRAULIC DATA	
DRAINAGE AREA	1.56 SQ. MI.
DESIGN FREQUENCY	100-YR
DESIGN DISCHARGE	752 CFS
UPSTREAM DESIGN WATER SURFACE EL.	152.43 FT
DOWNSTREAM DESIGN WATER SURFACE EL.	150.13 FT
OVERTOPPING FREQUENCY	500-YR
OVERTOPPING DISCHARGE	1000 CFS
WORST CASE SCOUR SUB-STRUCTURE	WEST ABUTMENT
MAXIMUM SCOUR ELEVATION	143.0 FT
AVERAGE DAILY FLOW	6 CFS
AVERAGE SPRING FLOW	3 CFS

CONCRETE DISTRIBUTION			
DESCRIPTION	UNIT	QTY	
SUPERSTRUCTURE	CY	7	
SUBSTRUCTURE	CY	115	
FOOTINGS	CY	67	
TOTAL	CY	189	

NOTICE TO BRIDGE INSPECTORS	
The Department's Bridge Safety procedure require this bridge to be inspected for, but not limited to, all appropriate components indicated in the governing manuals for bridge inspection. Attention must be given to inspecting the following special components and details. (The listing for components for specific attention shall not be construed to reduce the importance of inspection of any other component of the structure.) The frequency of inspection of this structure shall be in accordance with the governing manuals for bridge inspection, unless otherwise directed by the Manager of Bridge Safety and Evaluation.	
COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
NONE	



BASELINE ELEVATION
SCALE: 1" = 10'-0"



TYPICAL PRECAST CONCRETE THREE SIDED RIGID FRAME SECTION
SCALE: 1/4" = 1'-0"

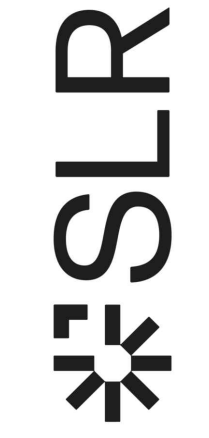
- GENERAL NOTES**
- SPECIFICATIONS:** CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2023 AND SPECIAL PROVISIONS.
 - DESIGN SPECIFICATIONS:** AASHTO LRFD DESIGN SPECIFICATIONS, 9TH EDITION, 2020, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH INTERIM REVISIONS UP TO AND INCLUDING 2019.
 - MATERIAL STRENGTHS:**

CONCRETE:	
CLASS PCC03340	f'c = 3,000 PSI
CLASS PCC04460	f'c = 4,000 PSI
CLASS PCC04462	f'c = 4,000 PSI
PRECAST CONCRETE PCC08061	f'c = 6,500 PSI

THE CONCRETE STRENGTH USED IN DESIGN (f'c) OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6.01 - CONCRETE FOR STRUCTURES AND M.03 - PORTLAND CEMENT CONCRETE.

REINFORCEMENT:	
ASTM A615 GRADE 60	f _y = 60,000 PSI
 - LIVE LOAD:** HL-93, LEGAL AND PERMIT VEHICLES
 - FUTURE PAVING ALLOWANCE:** NONE
 - EXISTING DIMENSIONS:** DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISH WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

- CONCRETE NOTES**
- REMAIN-IN-PLACE FORMS:** THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.
 - THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:
- | ITEM | BRIDGE COMPONENTS | PCC CLASS |
|----------------------------|------------------------------|-----------|
| FOOTING CONCRETE | ABUTMENT & WINGWALL FOOTINGS | PCC04460 |
| ABUTMENT AND WALL CONCRETE | ABUTMENT AND WINGWALL STEMS | PCC04460 |
| PARAPET CONCRETE | HEADWALLS | PCC04462 |
- EXPOSED EDGES:** EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.
 - CONCRETE COVER:** ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.
 - REINFORCEMENT:** ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED." DRILLED SHAFT REINFORCING SHALL ALSO BE GALVANIZED AND PAID FOR UNDER ITEM "DRILLED SHAFT (2.5FT)".
 - PREFORMED EXPANSION JOINT FILLER:** THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES."
 - CONSTRUCTION JOINTS:** CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
 - PRECAST CONCRETE THREE SIDED RIGID FRAME:** SEE SPECIAL PROVISIONS.



96 REALTY DRIVE
2083271773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

BRIDGE PLAN, PROFILE & TYPICAL SECTION

REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM

INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

KP	WRS	KP
DESIGNED	DRAWN	CHECKED

SCALE: AS SHOWN

DATE: JANUARY 30, 2024

PROJECT NO.: 11047.00059

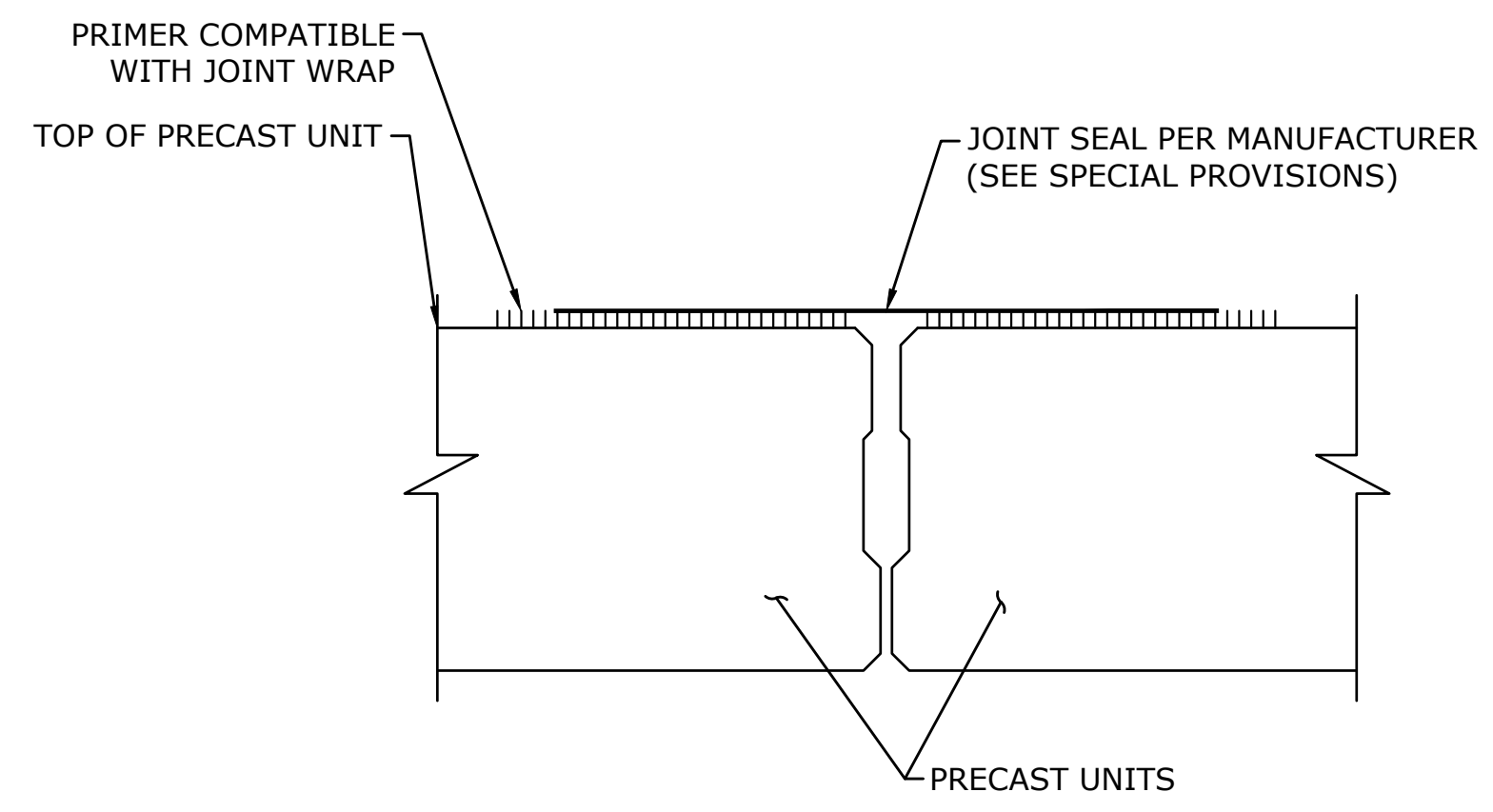
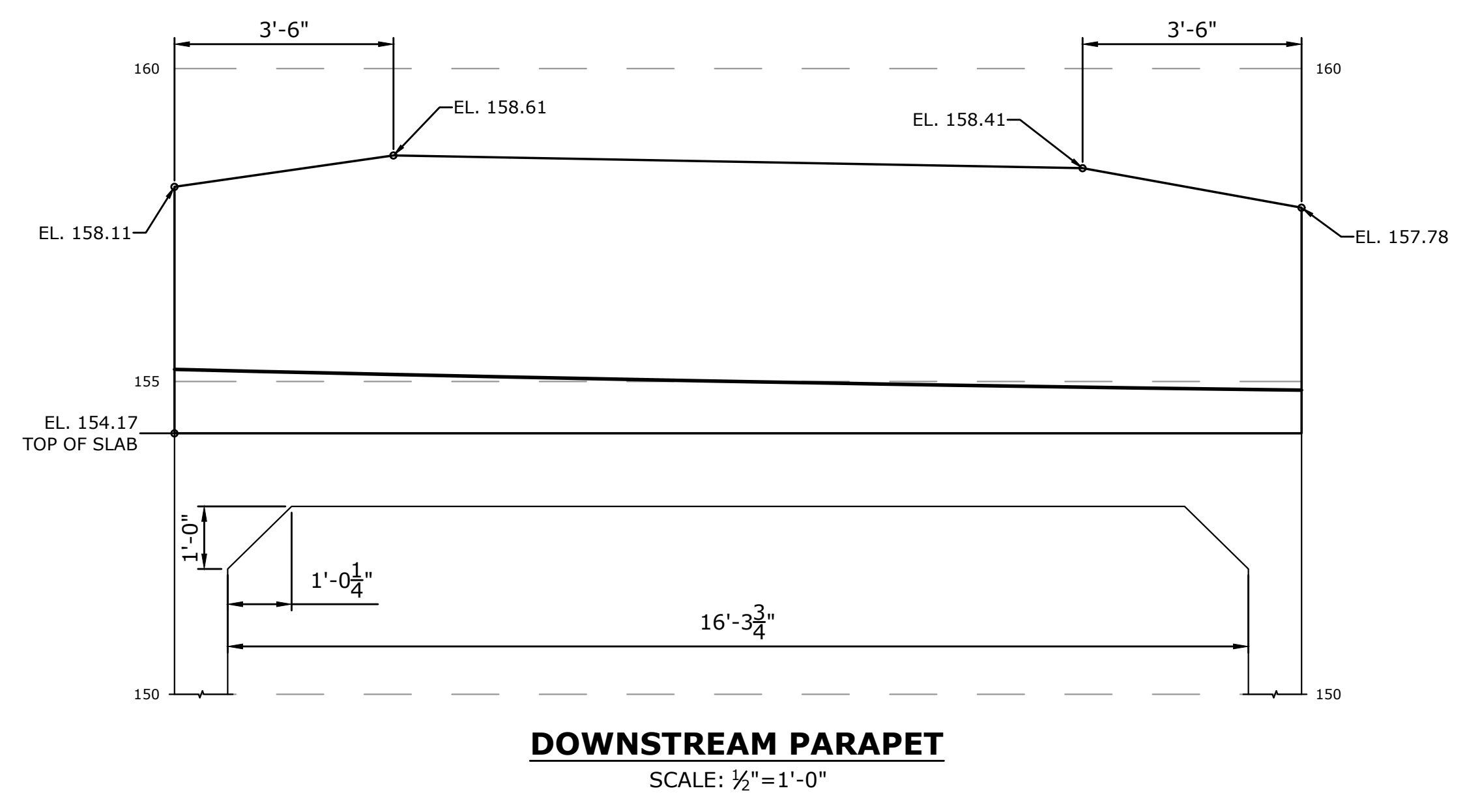
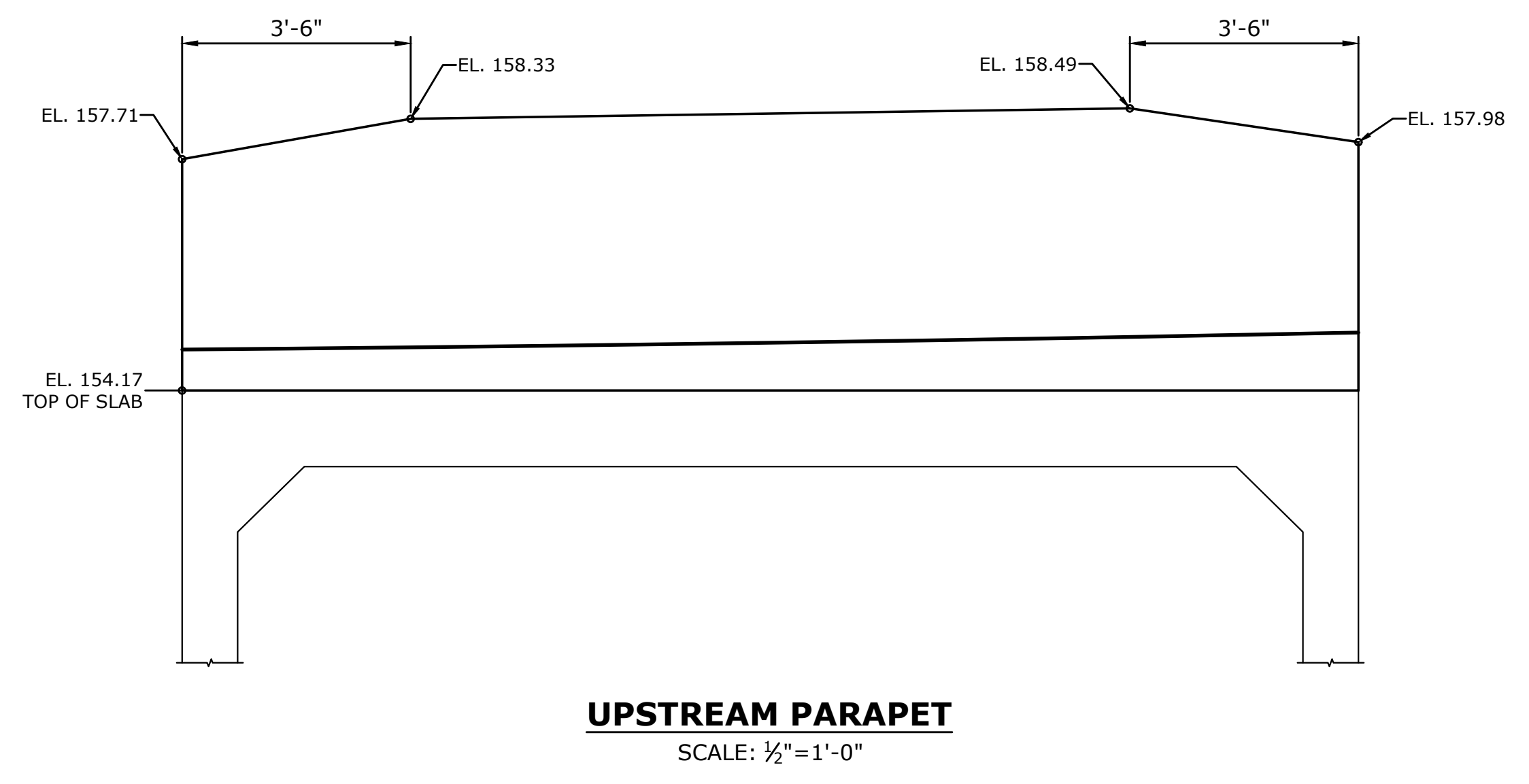
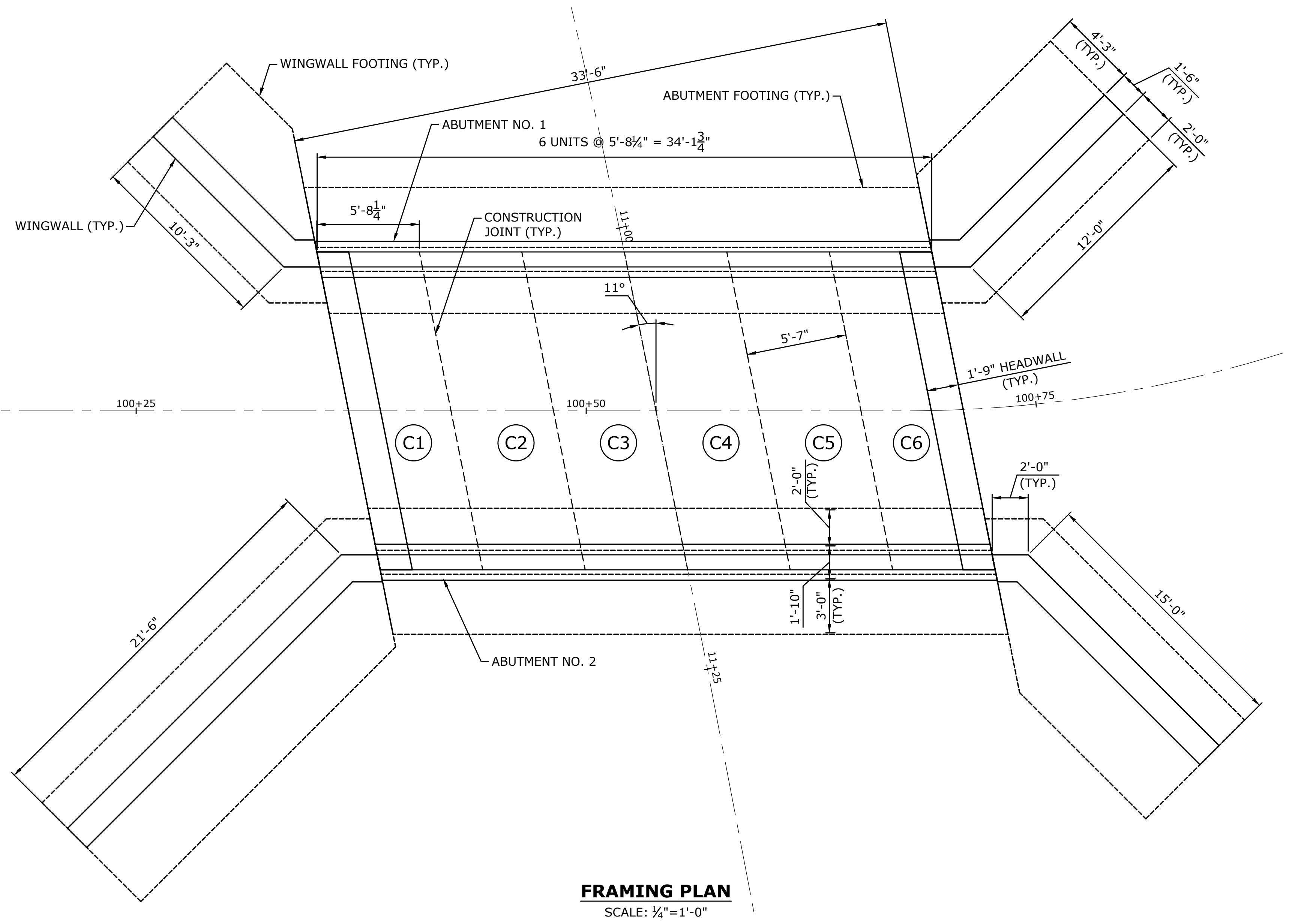
DRAWING NO.: STR-01

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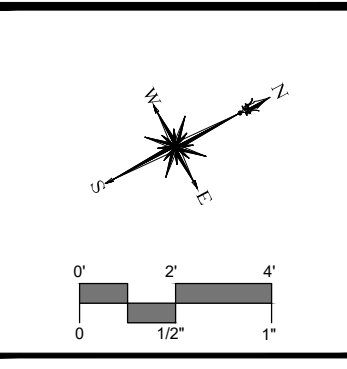
STATE PROJECT NO. 9025-0030

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CONSULT: SLR CONSULTING, INC. 2025 03/27/2025 10:00 AM V:\PROJECTS\9025-0030\9025-0030-STR-03.dwg
 DRAWN BY: SLR CONSULTING, INC. 2025 03/27/2025 10:00 AM V:\PROJECTS\9025-0030\9025-0030-STR-03.dwg



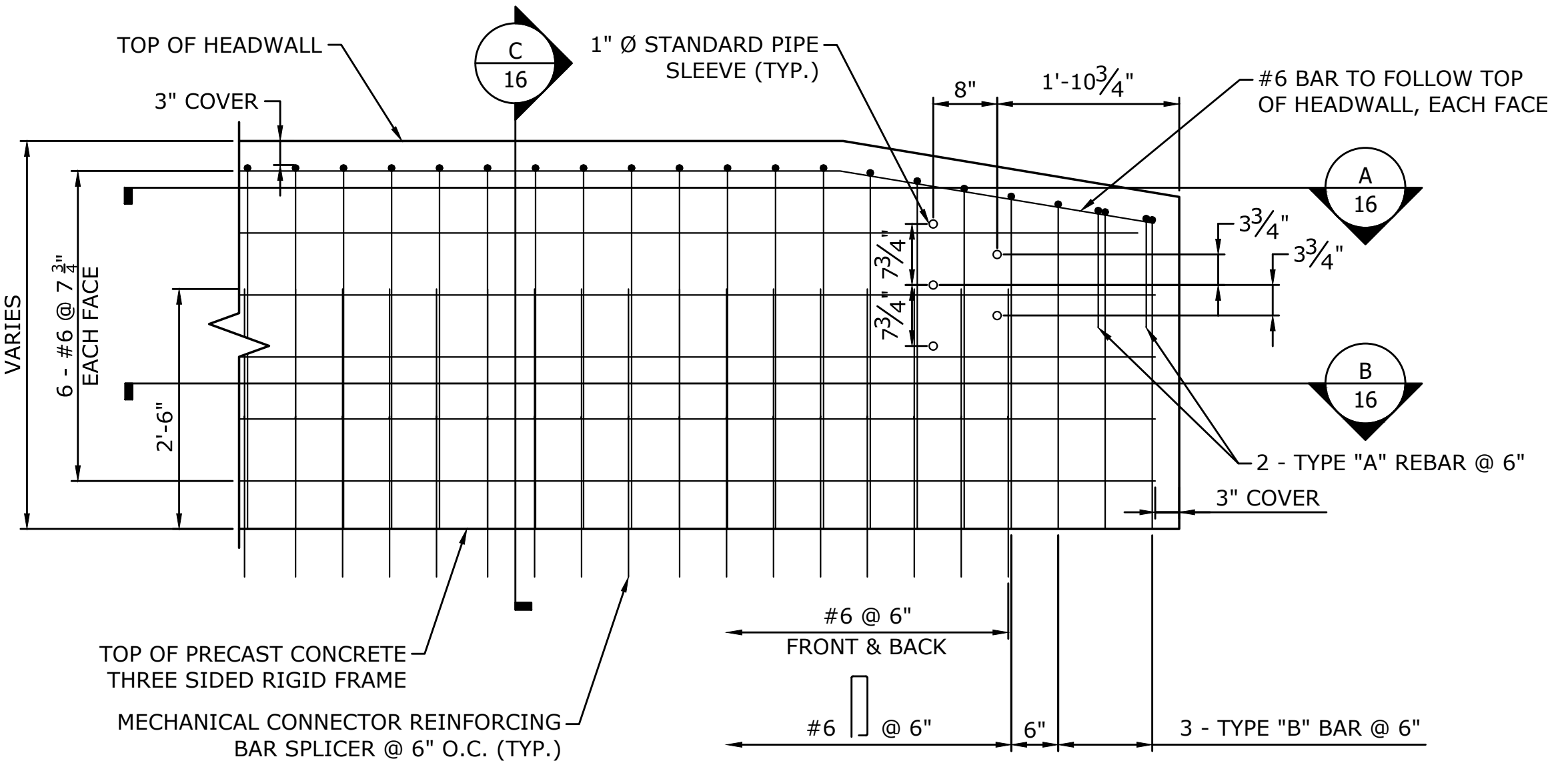
- NOTES**
1. THE JOINT SEAL SHALL BE APPLIED TO THE ENTIRE LENGTH OF THE JOINT BETWEEN PRECAST UNITS.
 2. THE COST OF THE JOINT SEAL SHALL BE INCLUDED IN THE COST OF ITEM "PRECAST CONCRETE THREE SIDED RIGID FRAME".



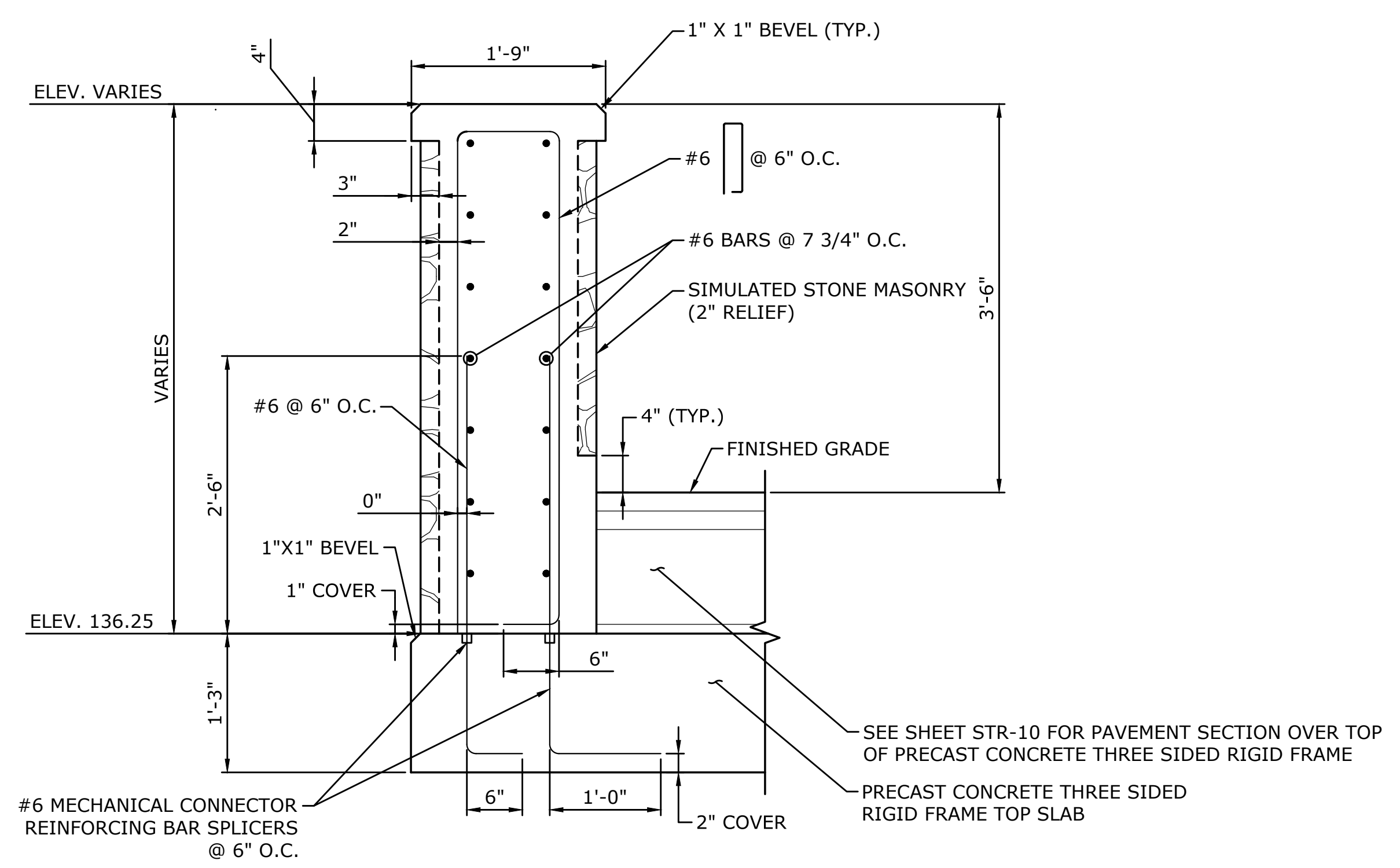
DESCRIPTION	DATE	BY

FRAMING PLAN
 REPLACEMENT OF INDUSTRIAL AVENUE
 BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

NP	NP	KP
DESIGNED	DRAWN	CHECKED
SCALE: AS NOTED		
DATE: JANUARY 30, 2024		
PROJECT NO.: 11047.00059		
DRAWING NO.: STR-03		

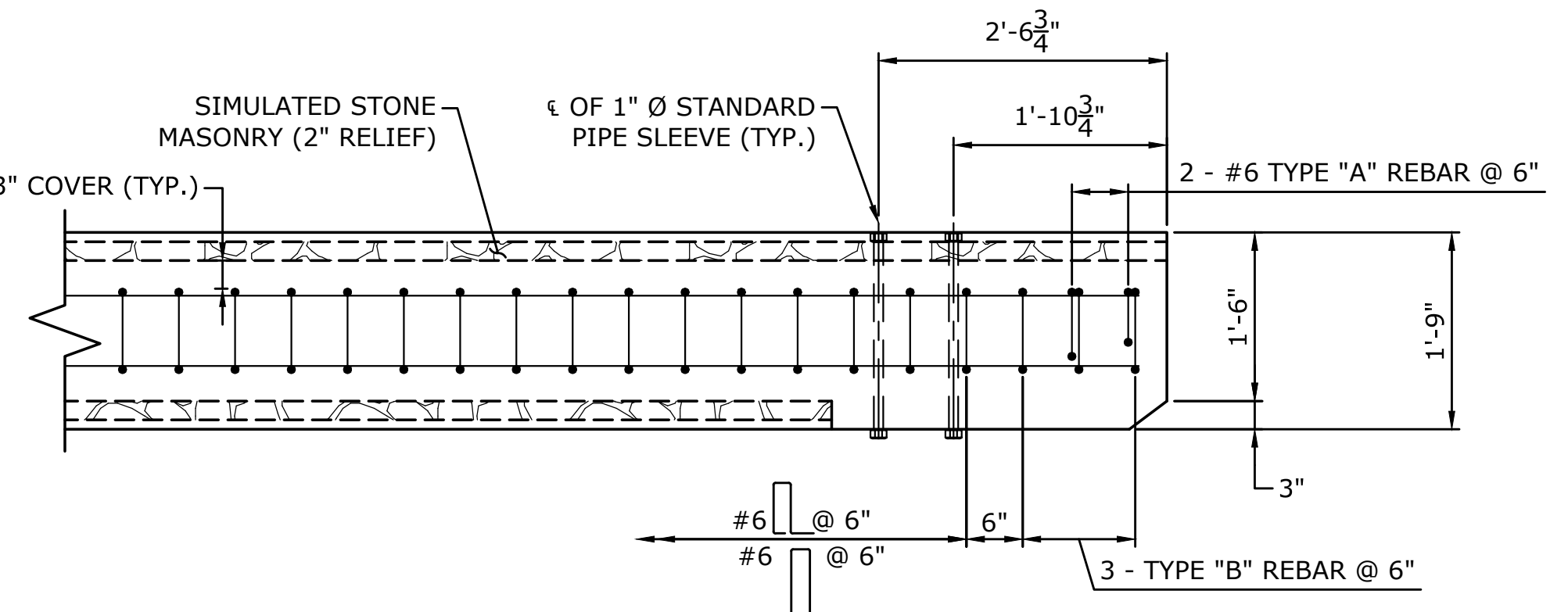


TYPICAL HEADWALL REINFORCEMENT AT END - ELEVATION VIEW
SCALE: 3/4" = 1'-0"

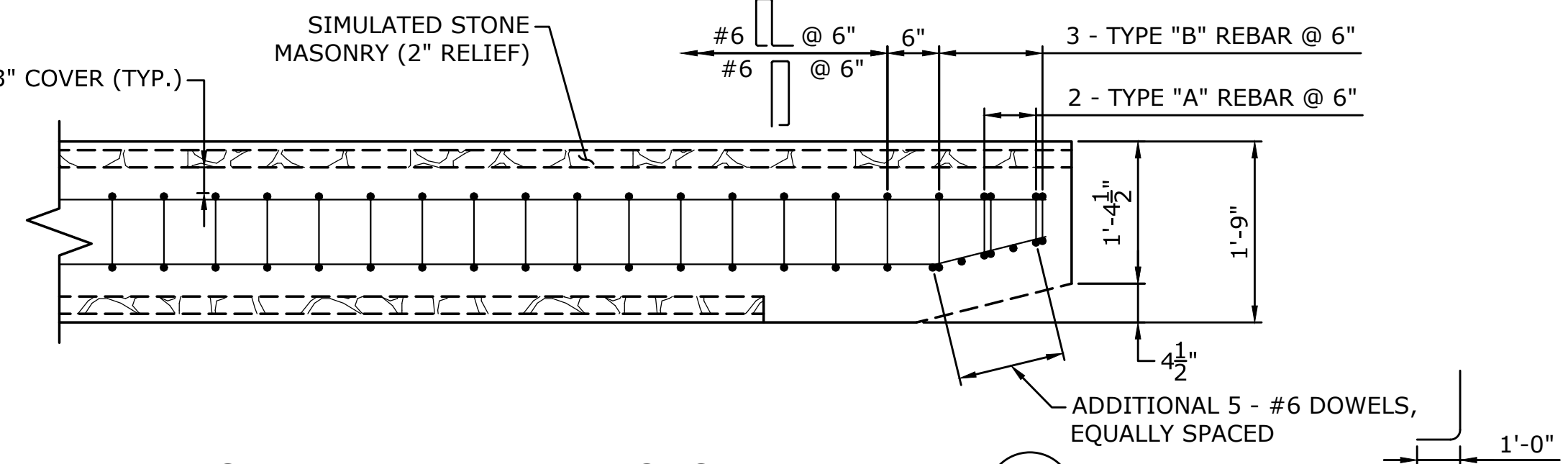


HEADWALL ON PRECAST CONCRETE THREE SIDED RIGID FRAME TOP SLAB
SCALE: 1" = 1'-0"

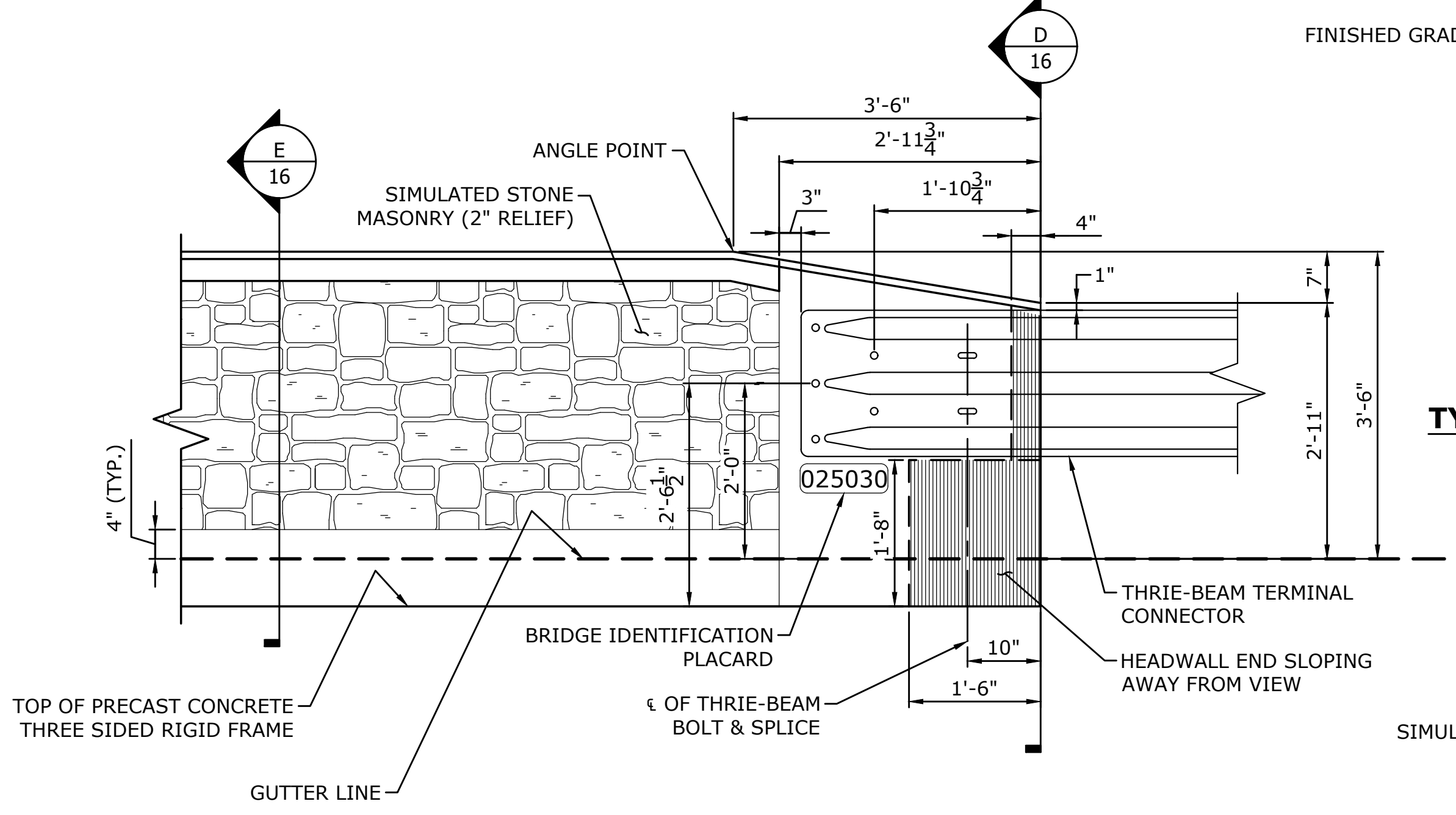
NOTE:
ALL PORTIONS OF THE HEADWALL NOT TREATED WITH SIMULATED MASONRY SHALL RECEIVE A COATING OF PENETRATING SEALER PROTECTIVE COMPOUND



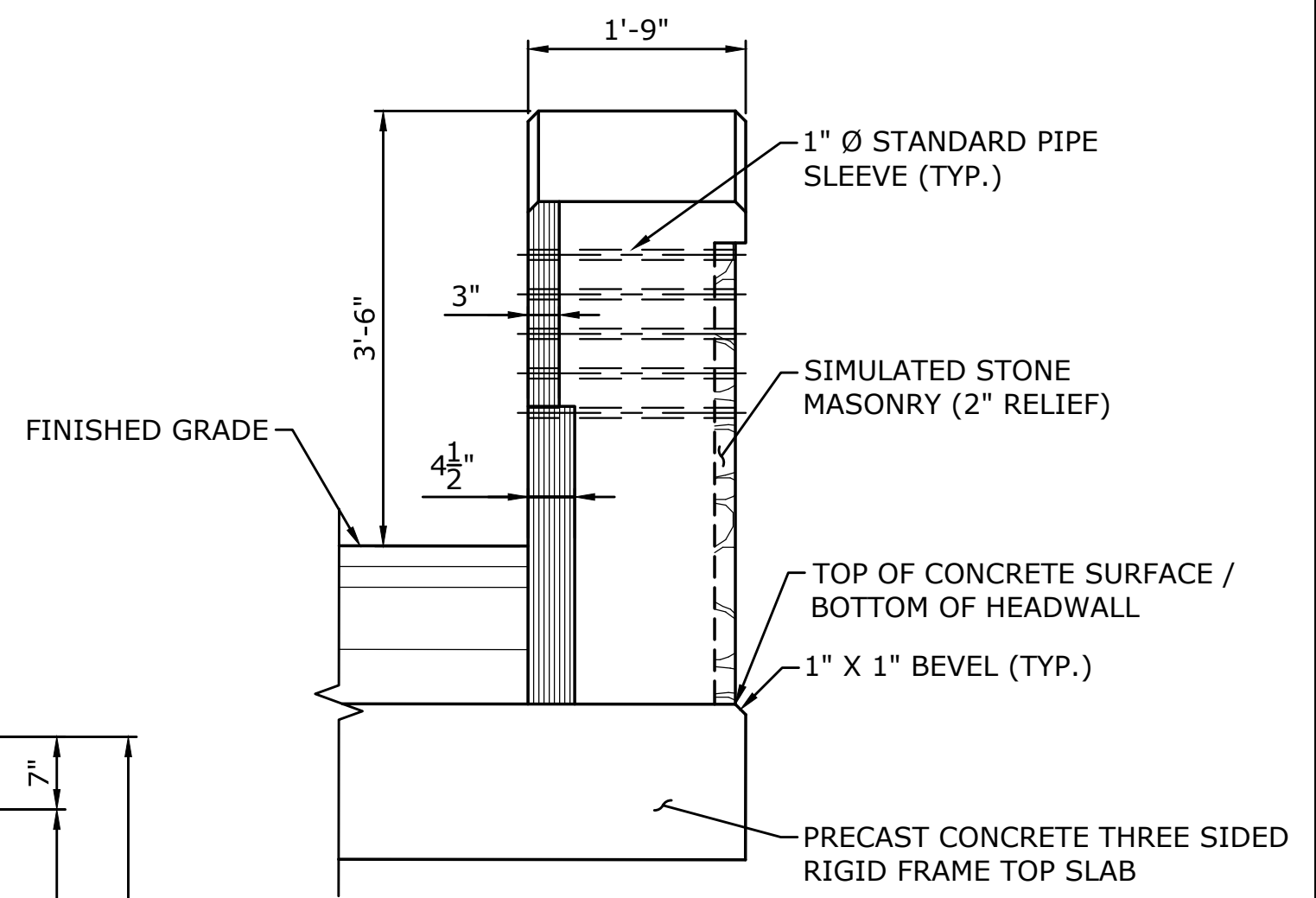
TYPICAL HEADWALL REINFORCEMENT AT END (A)
SCALE: 3/4" = 1'-0"



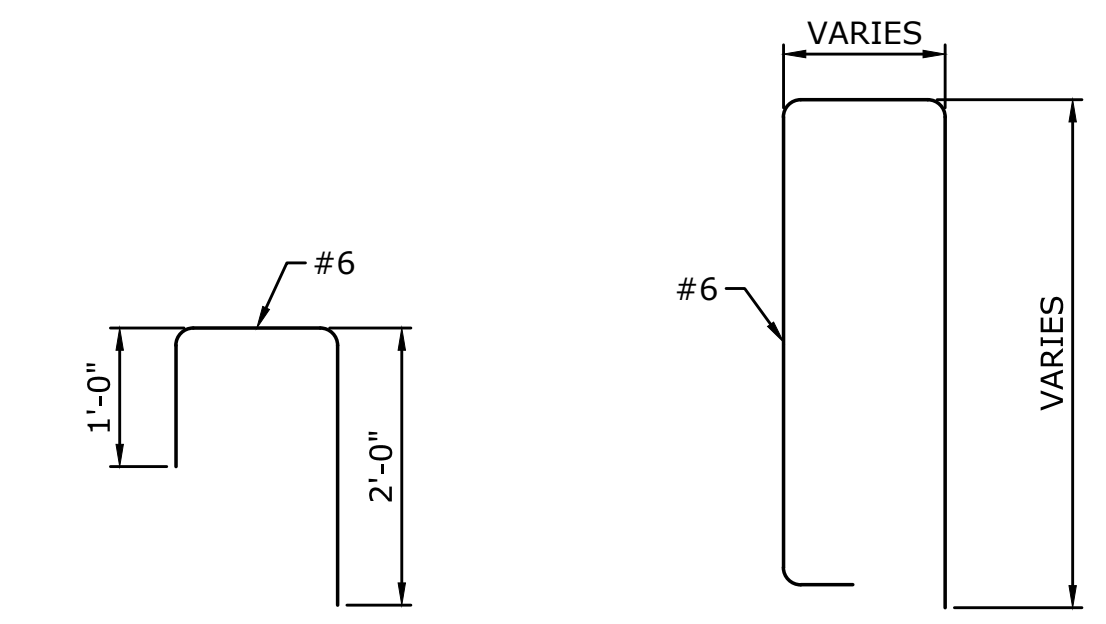
TYPICAL HEADWALL REINFORCEMENT AT END (B)
SCALE: 3/4" = 1'-0"



TYPICAL HEADWALL AT END - ELEVATION VIEW
SCALE: 3/4" = 1'-0"

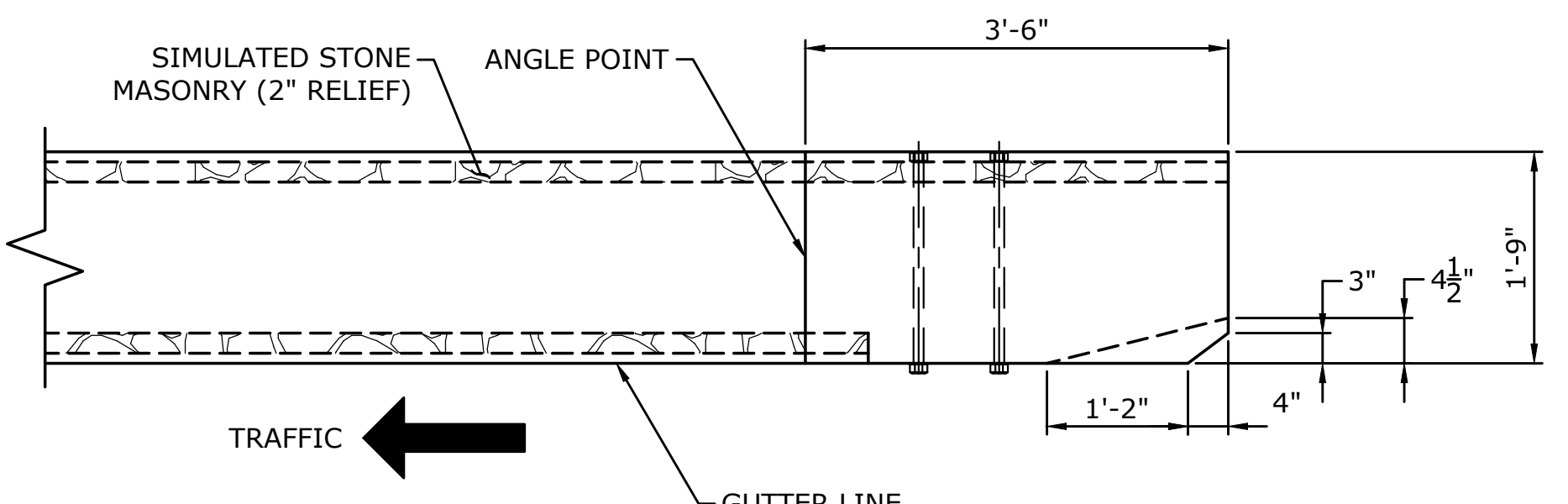


TYPICAL HEADWALL AT END (D)
SCALE: 3/4" = 1'-0"

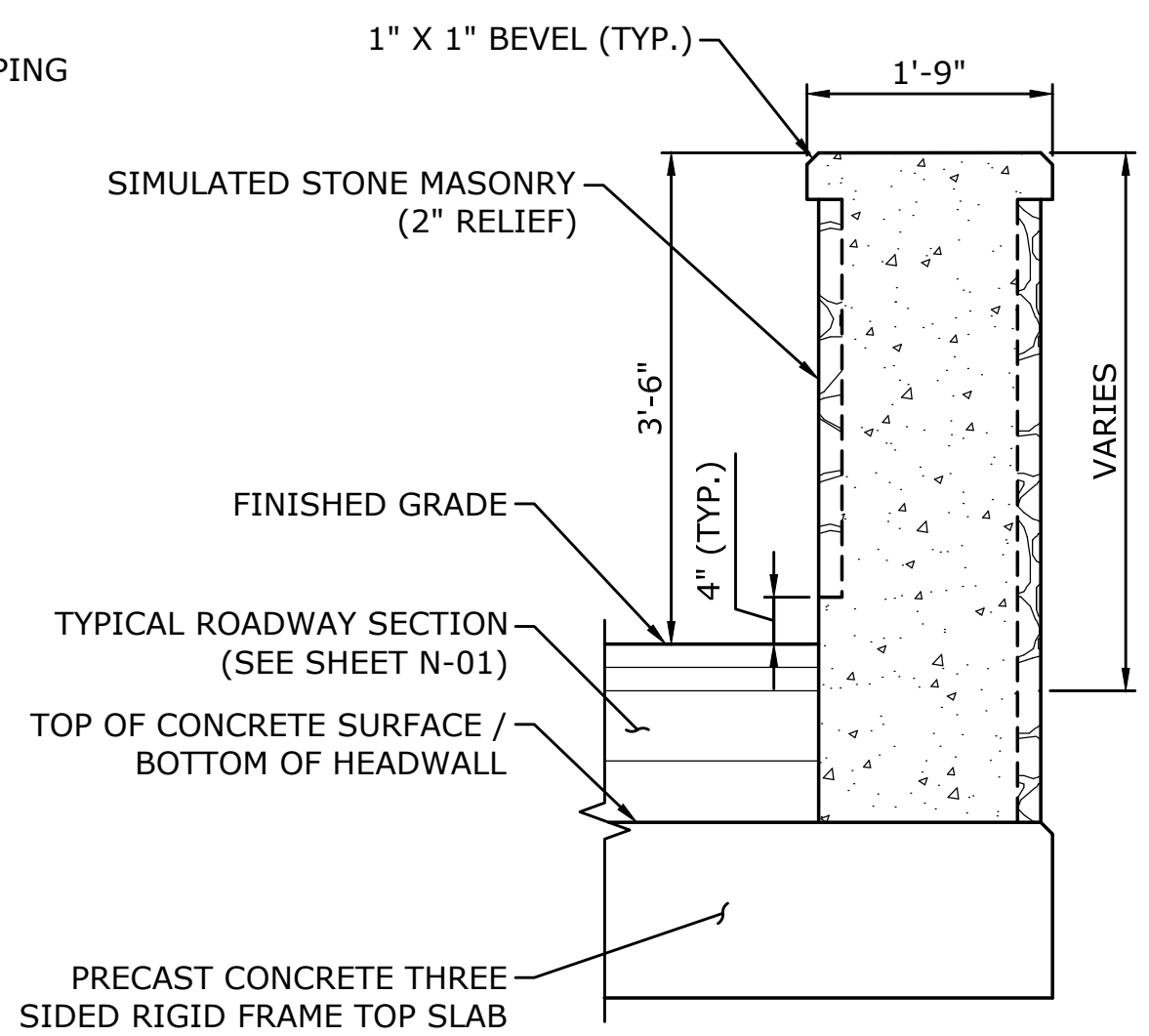


TYPE "A" REBAR
NOT TO SCALE

TYPE "B" REBAR
NOT TO SCALE



TYPICAL HEADWALL AT END - PLAN VIEW
SCALE: 3/4" = 1'-0"



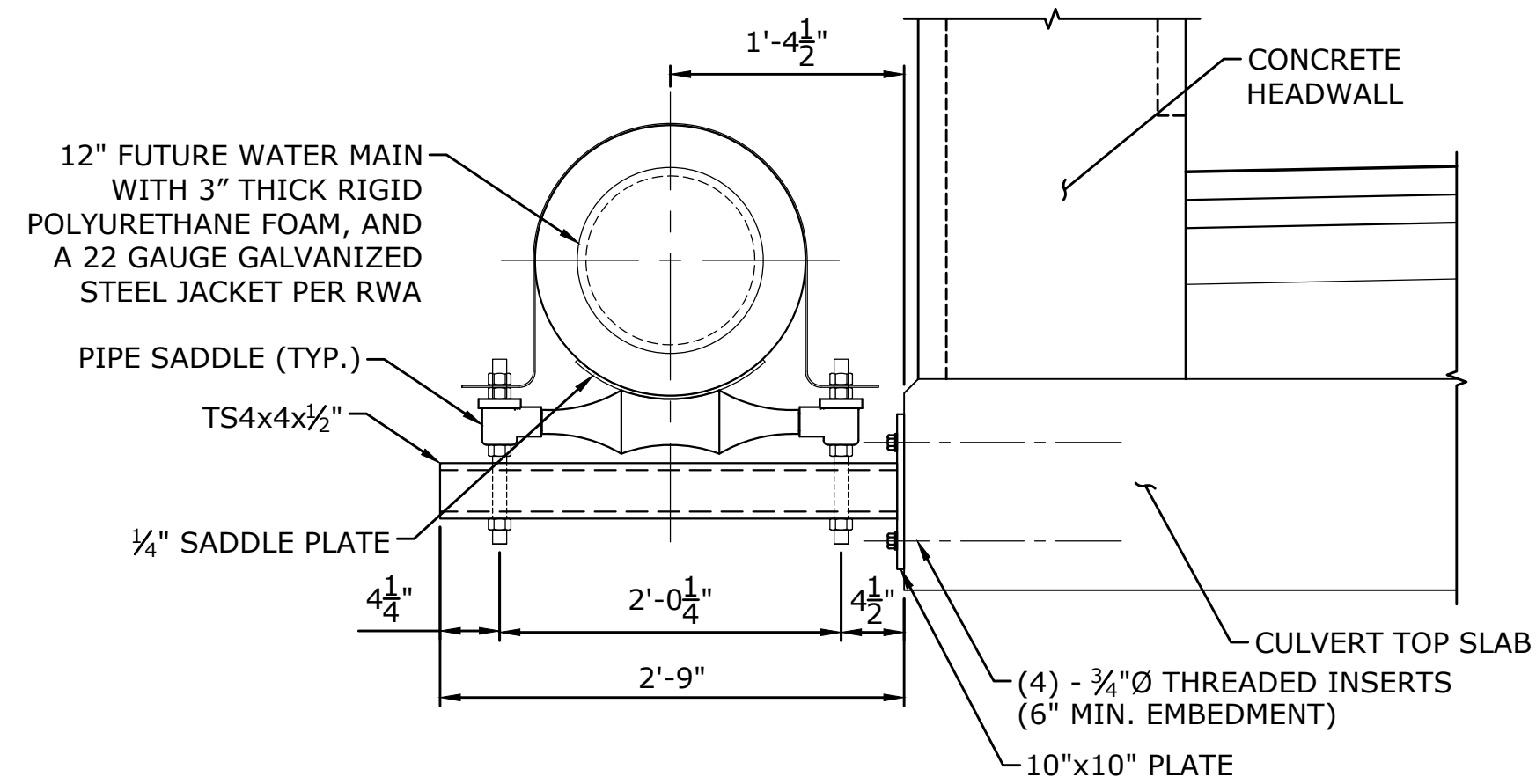
TYPICAL HEADWALL AT END (E)
SCALE: 3/4" = 1'-0"



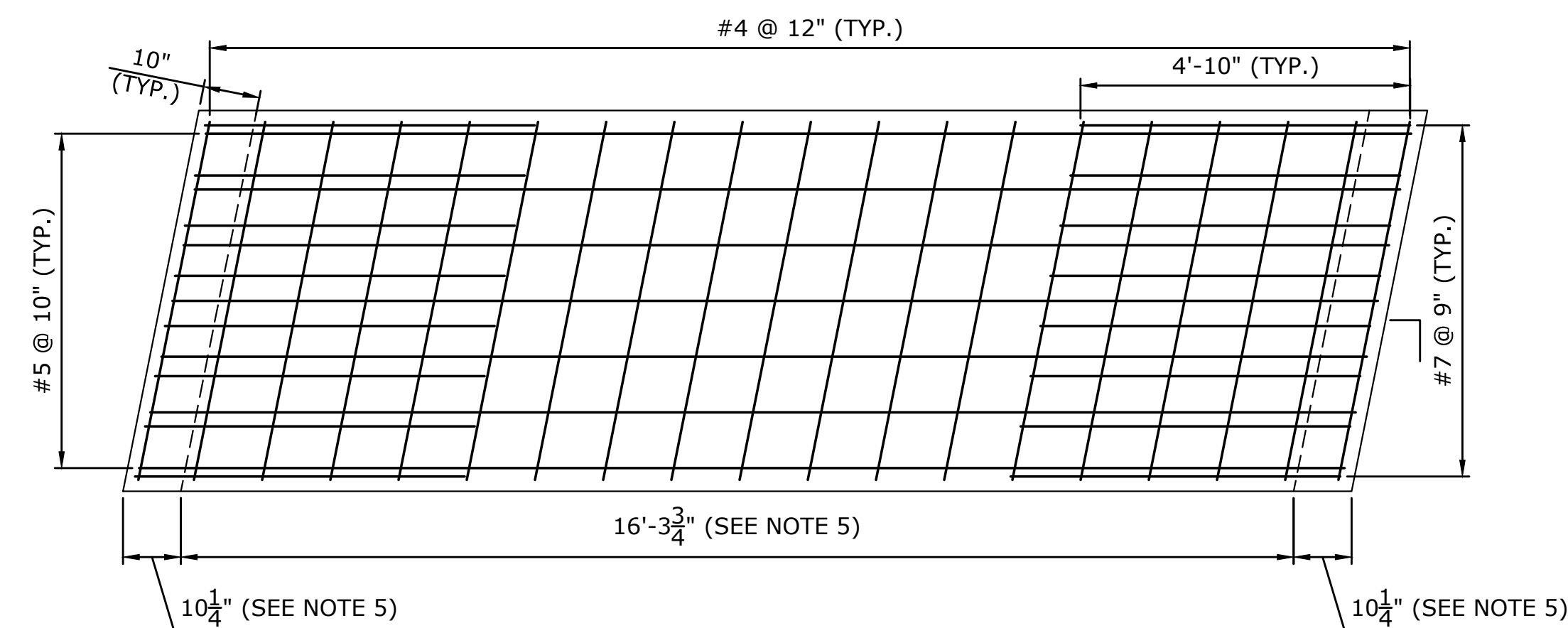
DESCRIPTION	DATE	BY

STRUCTURAL DETAILS
REPLACEMENT OF INDUSTRIAL AVENUE
BRIDGE (NO. 025030) OVER UNNAMED STREAM
INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

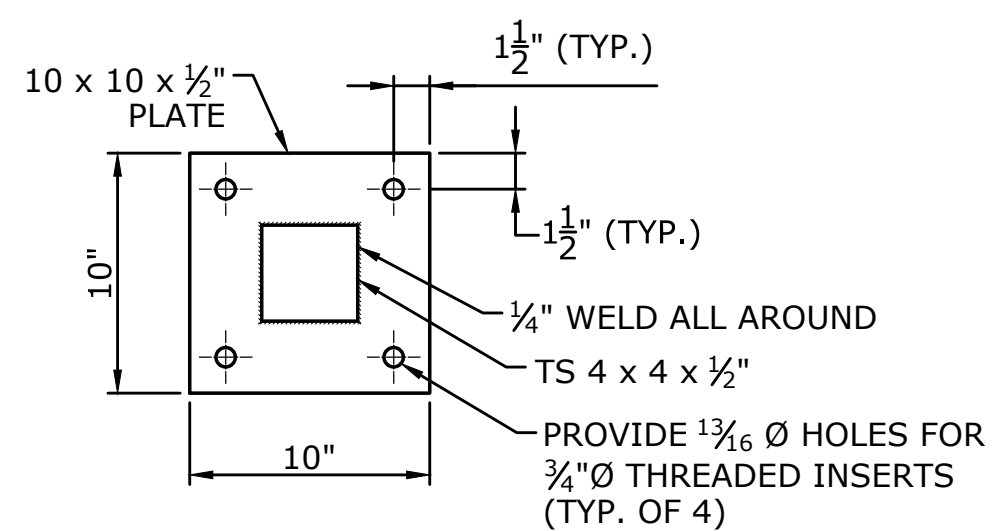
MO	MO	NP
DESIGNED	DRAWN	CHECKED
AS SHOWN		
JANUARY 30, 2024		
DATE		
11047.00059		
PROJECT NO.		
STR-04		
DRAWING NO.		



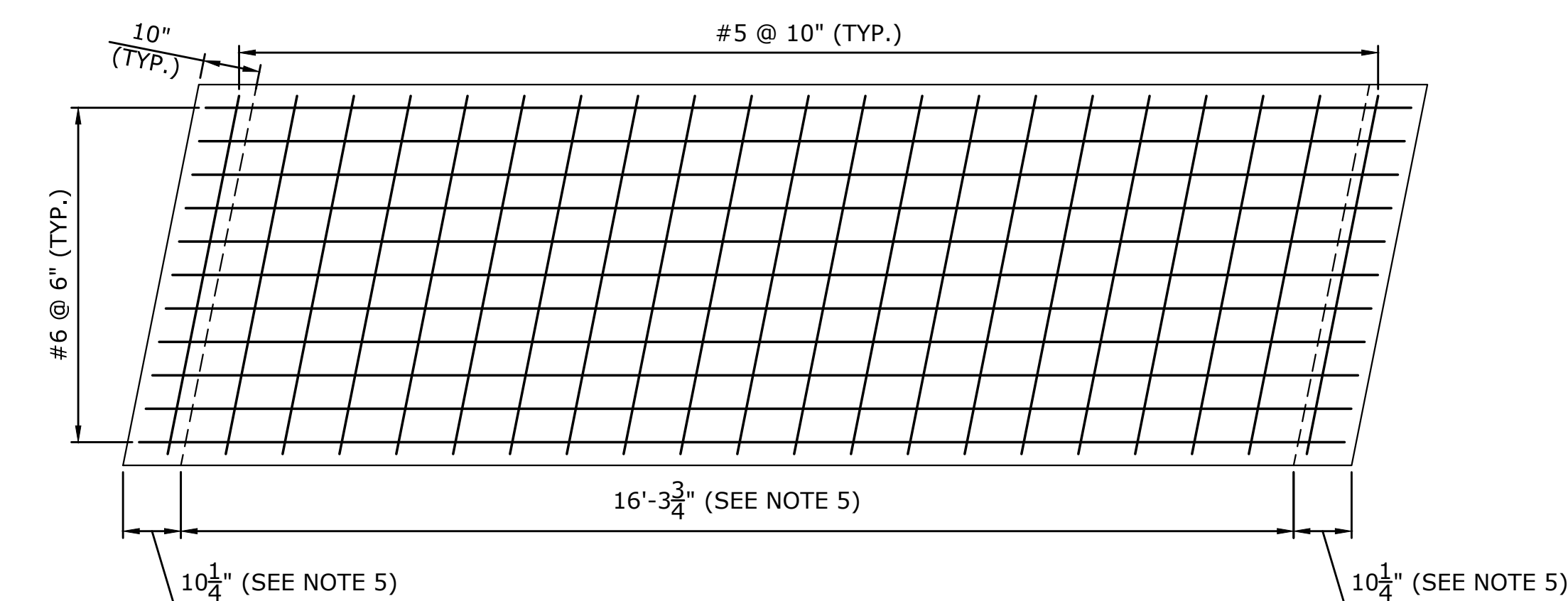
TYPICAL WATER MAIN SUPPORT DETAIL
SCALE: 1"=1'-0"



TYPICAL PRECAST CONCRETE THREE SIDED RIGID FRAME REINFORCEMENT - SLAB BOTTOM MAT
SCALE: 1/2"= 1'-0"

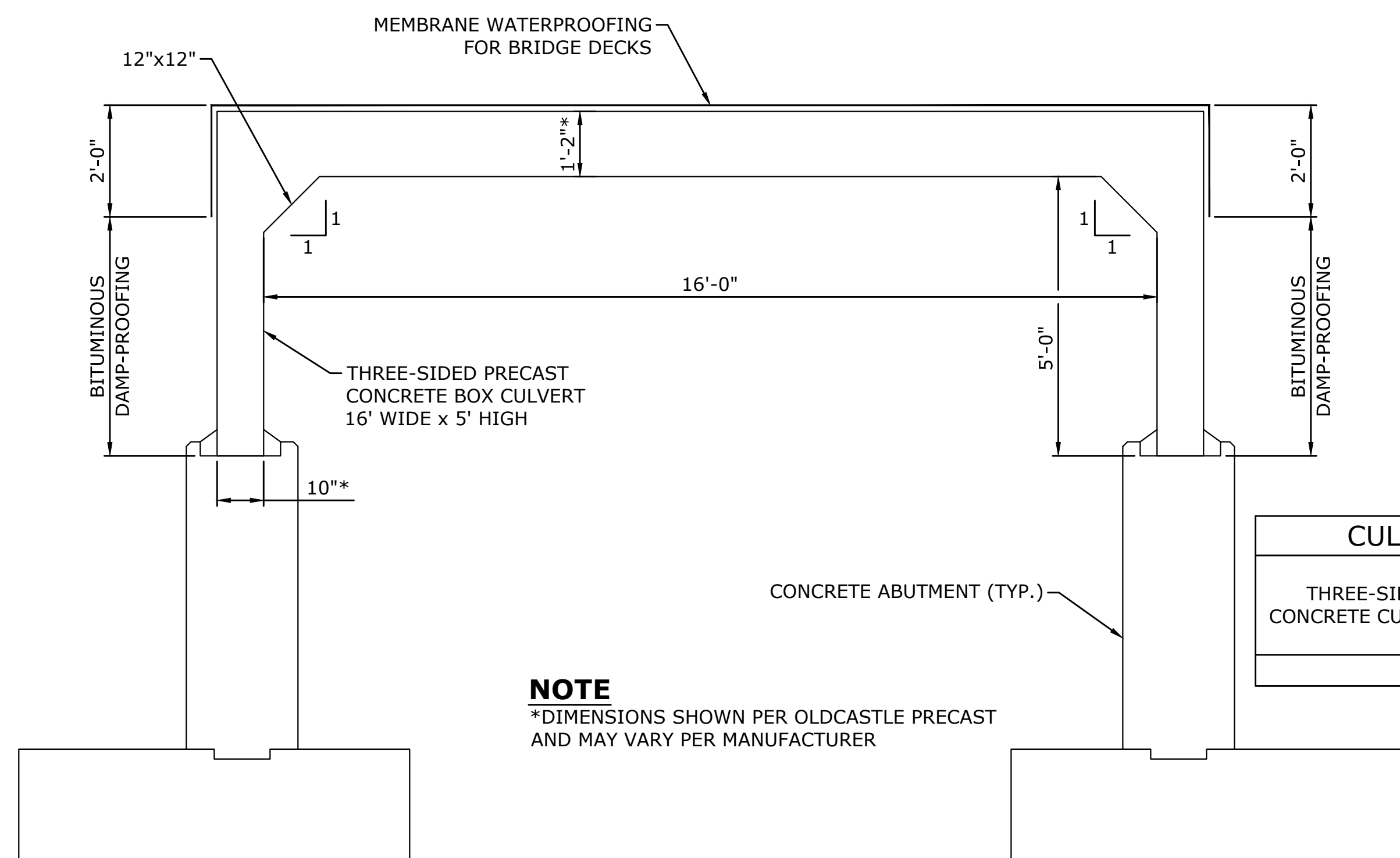


WATER MAIN SUPPORT PLATE DETAIL
SCALE: 1 1/2"= 1'-0"



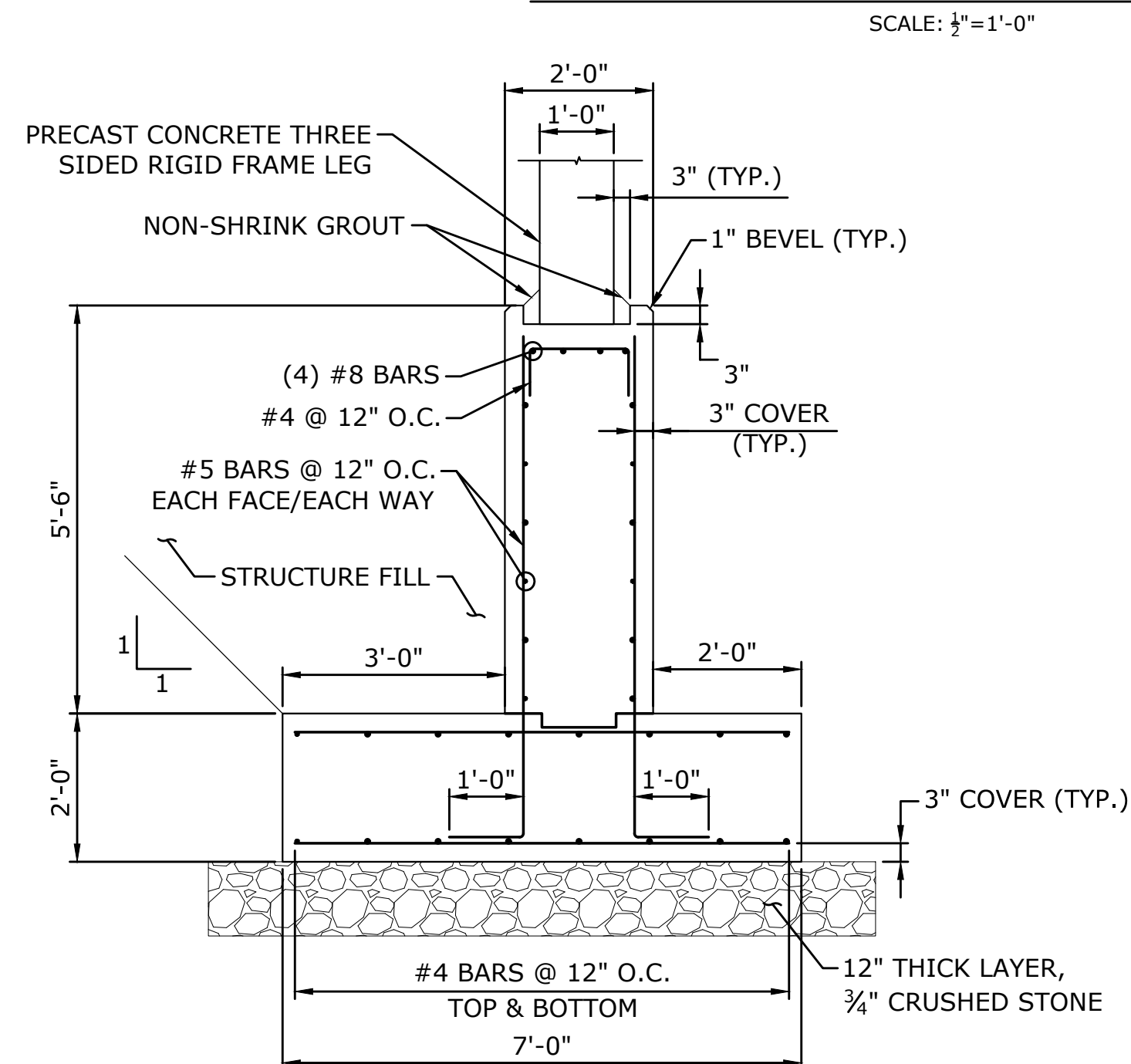
TYPICAL PRECAST CONCRETE THREE SIDED RIGID FRAME REINFORCEMENT - SLAB BOTTOM MAT
SCALE: 1/2"= 1'-0"

CULVERT TRANSPORT DIMENSIONS AND WEIGHT				
THREE-SIDED PRECAST CONCRETE CULVERT SECTIONS	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
	18 FT.	6.25 FT.	5.67 FT.	11.88 TONS

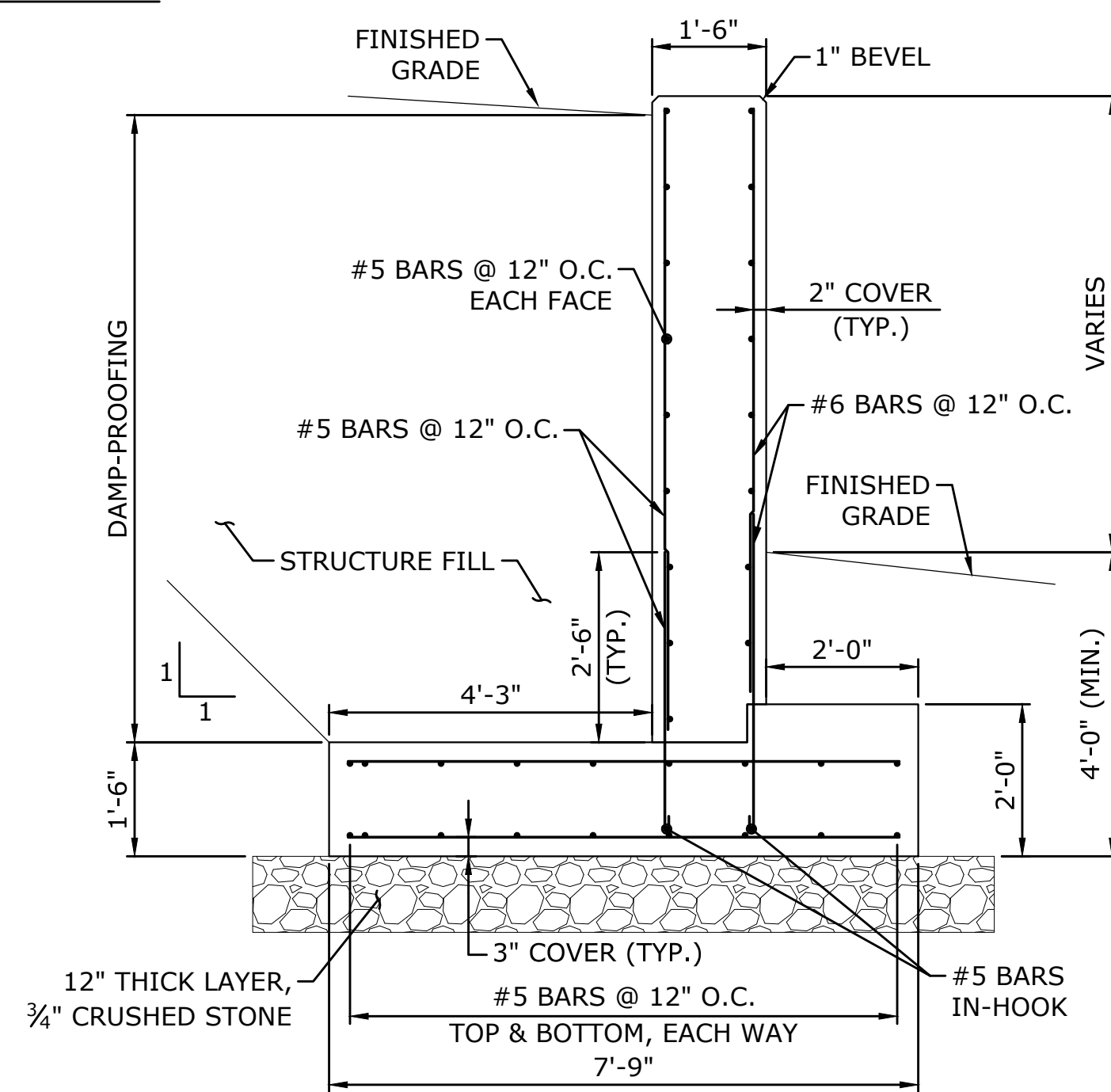


NOTE
*DIMENSIONS SHOWN PER OLDCASTLE PRECAST AND MAY VARY PER MANUFACTURER

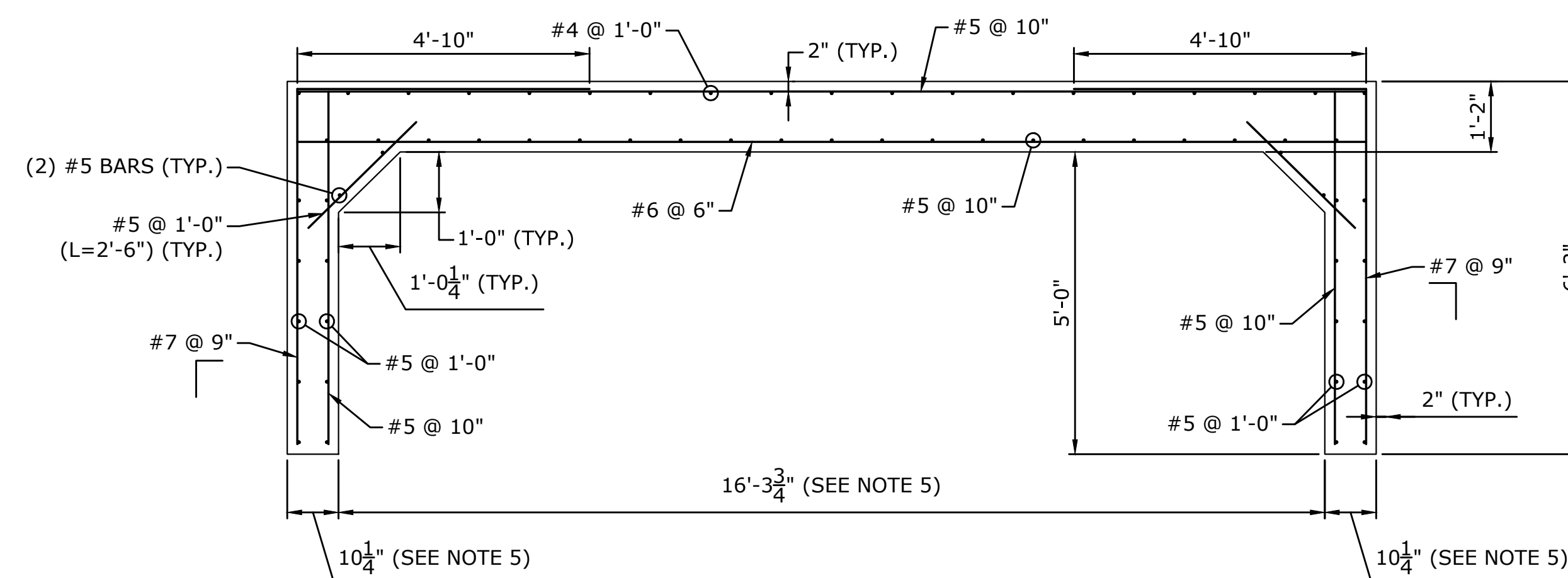
TYPICAL THREE-SIDED CULVERT SECTION
SCALE: 1/2"=1'-0"



CONCRETE ABUTMENT SECTION
SCALE: 1/2"=1'-0"



TYPICAL WINGWALL SECTION
SCALE: 1/2"=1'-0"



TYPICAL PRECAST CONCRETE THREE SIDED RIGID FRAME REINFORCEMENT - SECTION
SCALE: 1/2"= 1'-0"

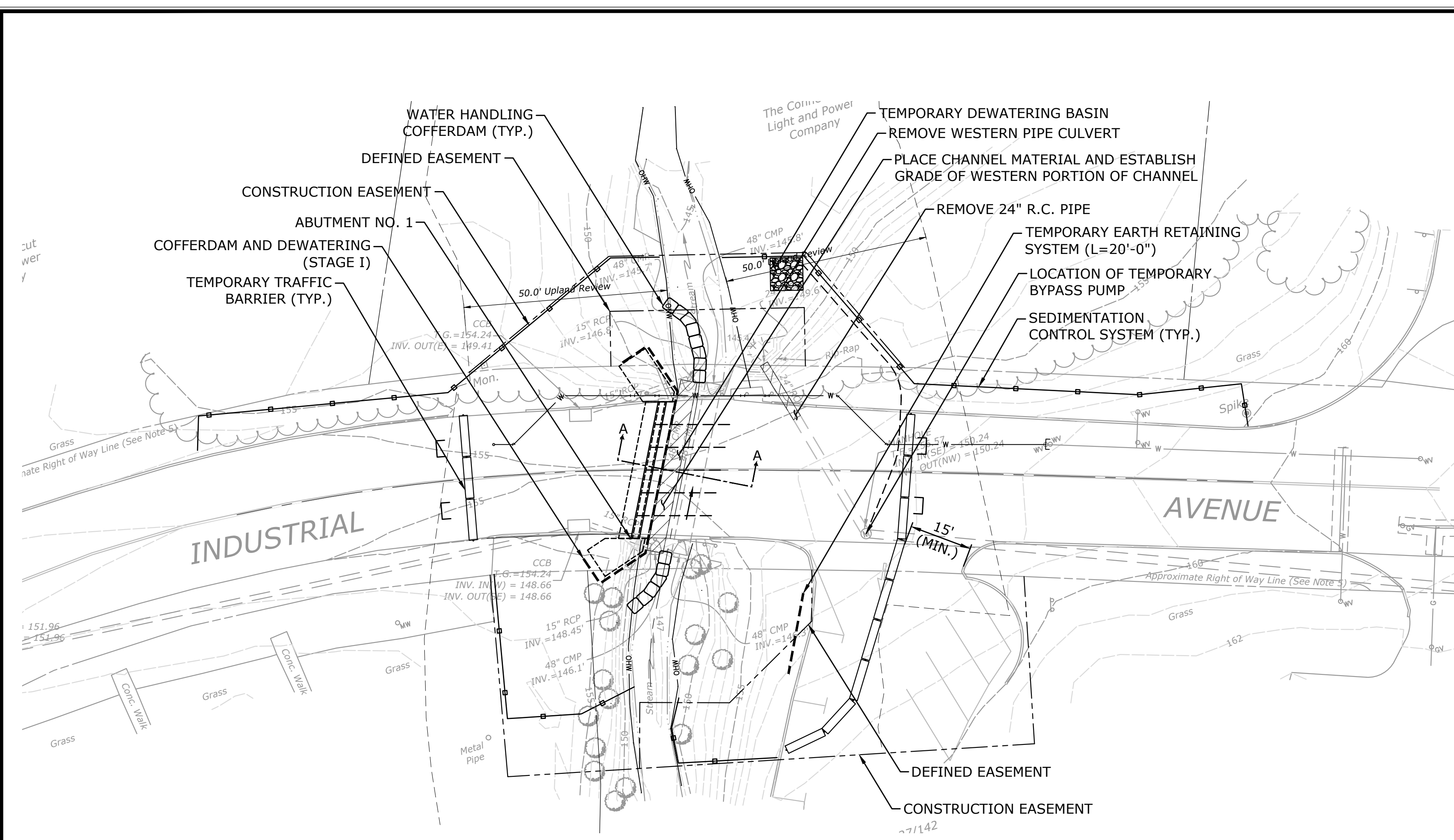
NOTES

1. REINFORCING BARS SHALL BE GALVANIZED AND CONFORM TO ASTM A615, GRADE 60.
2. THE CONCRETE COMPRESSIVE STRENGTH (F_c) SHALL BE 6,500 PSI.
3. LONGITUDINAL REINFORCEMENT SHALL BE 4" LESS THAN THE UNIT LENGTH.
4. FABRICATOR MAY ADJUST THE TOP MAT OF REINFORCING TO AVOID CONFLICTS WITH THE HEADWALL REINFORCING.
5. THE DIMENSIONS INDICATED ARE MEASURED ALONG THE SKEW.

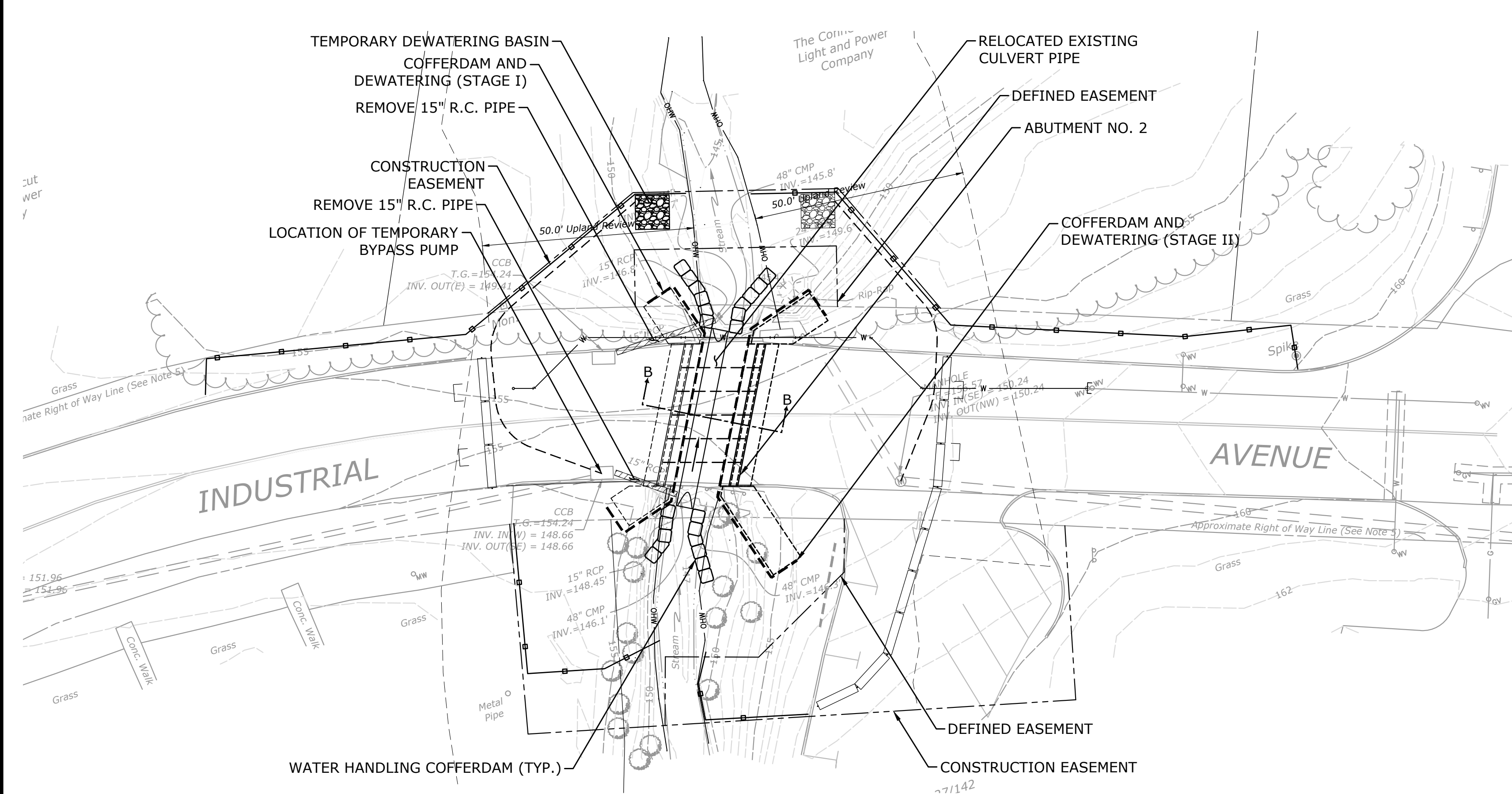
DESCRIPTION	DATE	BY

NP	NP	KP
DESIGNED	DRAWN	CHECKED
SCALE: AS SHOWN		
DATE: JANUARY 30, 2024		
PROJECT NO.: 11047.00059		
DRAWING NO.: STR-05		

PROJECT NO. 9025-0030, SHEET NO. 15, DATE: JANUARY 30, 2024
 DRAWN BY: WRS, CHECKED BY: KP, DESIGNED BY: KP
 PROJECT LOCATION: INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM, CHESHIRE, CONNECTICUT



STAGE I
SCALE: 1" = 20'-0"



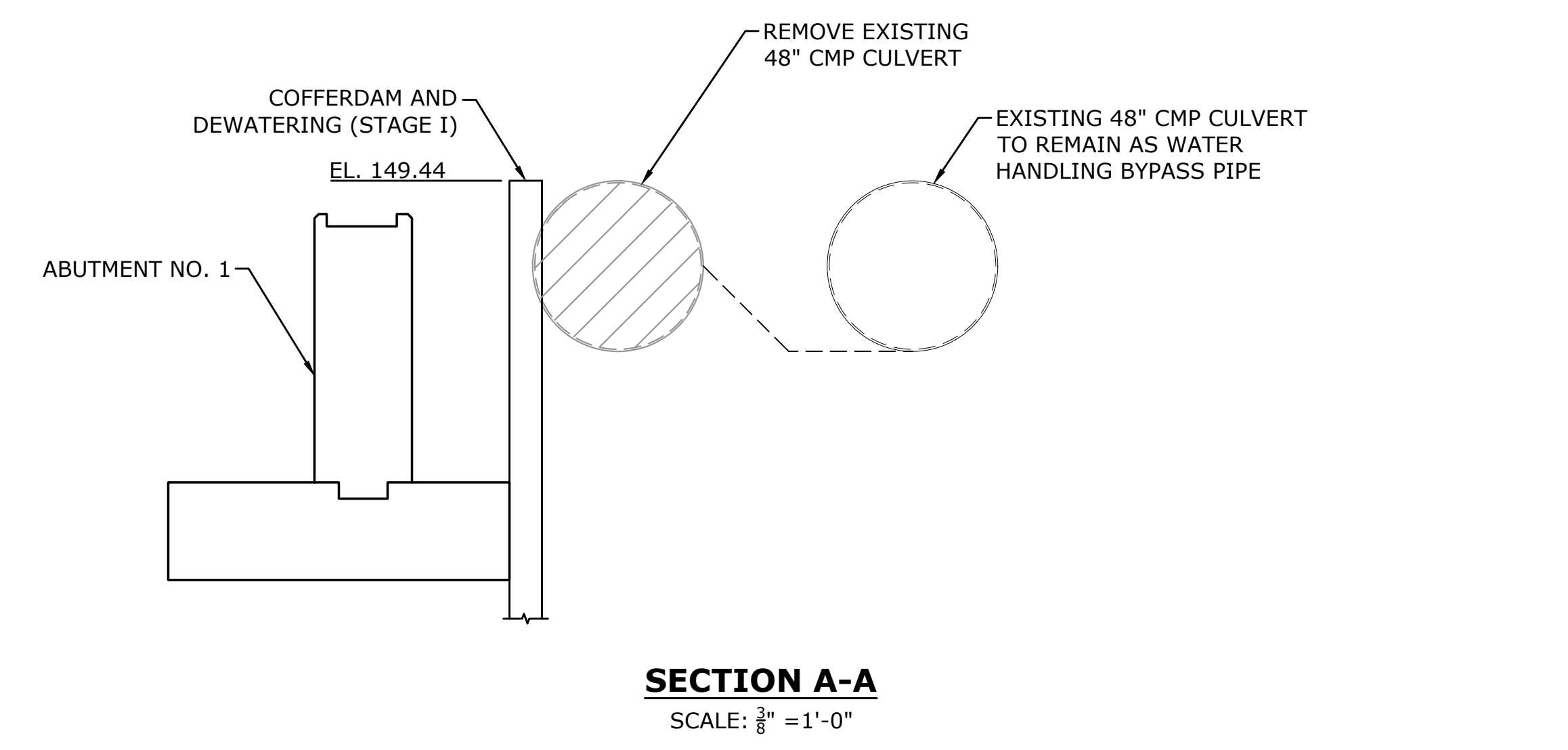
STAGE IA
SCALE: 1" = 20'-0"

SUGGESTED CONSTRUCTION SEQUENCE

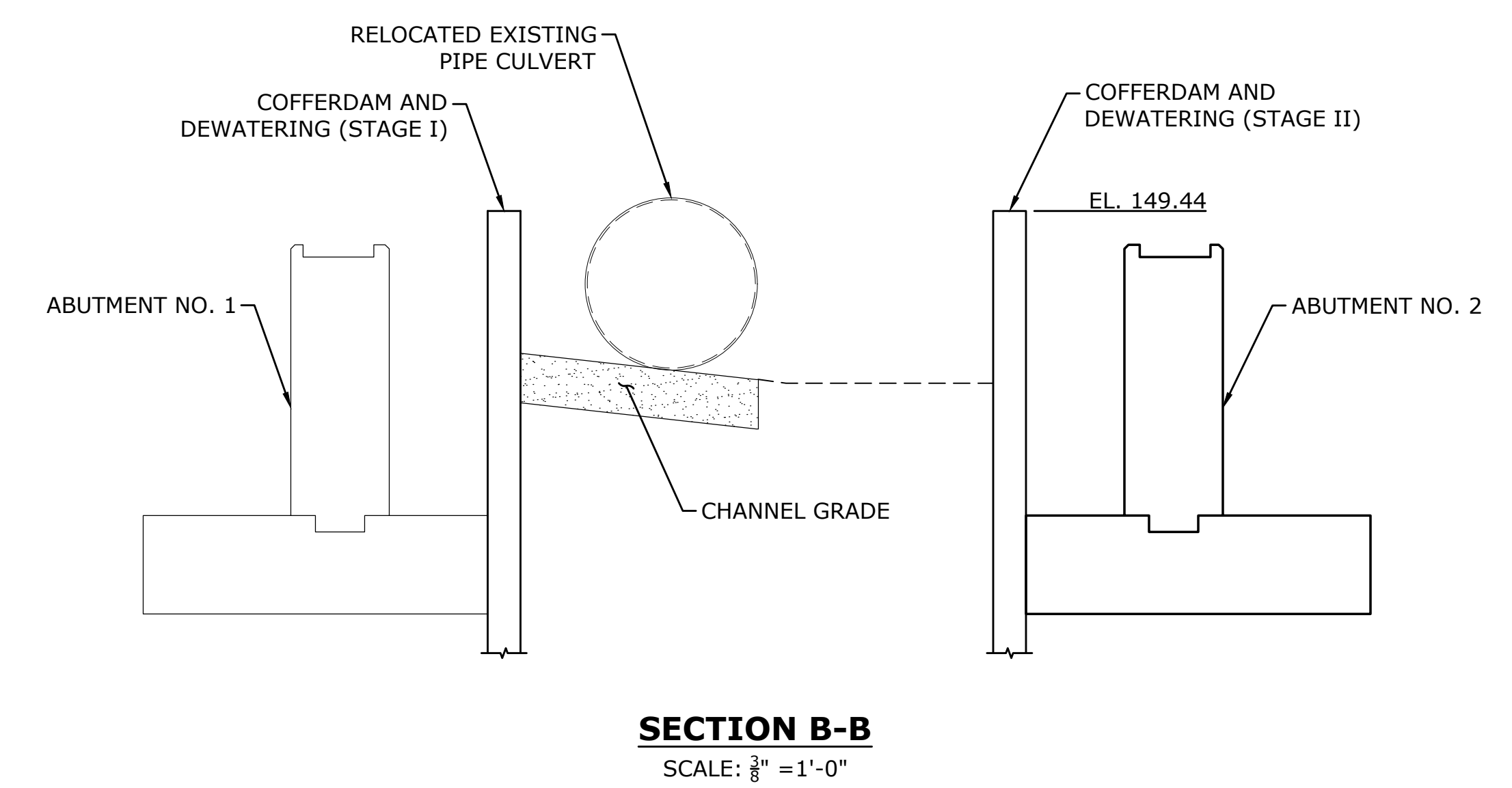
- STAGE I**
1. INSTALL DETOUR SIGNAGE AND CLOSE THE ROAD TO TRAFFIC.
 2. INSTALL SEDIMENT & EROSION CONTROLS.
 3. INSTALL WATER HANDLING COFFERDAM AS SHOWN.
 4. REMOVE WESTERN PIPE CULVERT AND EXISTING 24" R.C. PIPE TO THE LIMITS SHOWN (SEE NOTE 2).
 5. INSTALL COFFERDAM AND DEWATERING AS SHOWN.
 6. EXCAVATE FOR ABUTMENT NO. 1 AND WINGWALLS 1A & 1B FOUNDATIONS AS SHOWN.
 7. INSTALL TEMPORARY EARTH RETAINING SYSTEM.
 8. CONSTRUCT ABUTMENT AND WINGWALL FOOTINGS.
 9. CONSTRUCT ABUTMENT STEM.
 10. PLACE CHANNEL MATERIAL AND ESTABLISH FINISHED GRADE IN WESTERN PORTION OF CHANNEL TO THE FACE OF THE STAGE I COFFERDAM AND DEWATERING.

- STAGE II**
1. ADJUST THE LOCATION OF THE EXISTING PIPE CULVERT AND WATER HANDLING COFFERDAMS AS SHOWN.
 2. REMOVE THE EXISTING 15" R.C. PIPE AS SHOWN (SEE NOTE 2).
 3. INSTALL COFFERDAM AND DEWATERING AS SHOWN.
 4. EXCAVATE FOR ABUTMENT NO. 2 AND WINGWALL 2A & 2B FOUNDATIONS.
 5. CONSTRUCT ABUTMENT AND WINGWALL FOOTINGS.
 6. CONSTRUCT ABUTMENT STEM.

- NOTES:**
1. THE CONTRACTOR MAY PROPOSE AN ALTERNATE CONSTRUCTION SEQUENCE FOR APPROVAL BY THE ENGINEER.
 2. THE COST OF ANY NECESSARY BYPASS OF STORM WATER IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PAID UNDER THE COST OF THE DRAINAGE ITEMS COMPRISING THE WORK.



SECTION A-A
SCALE: 3/8" = 1'-0"



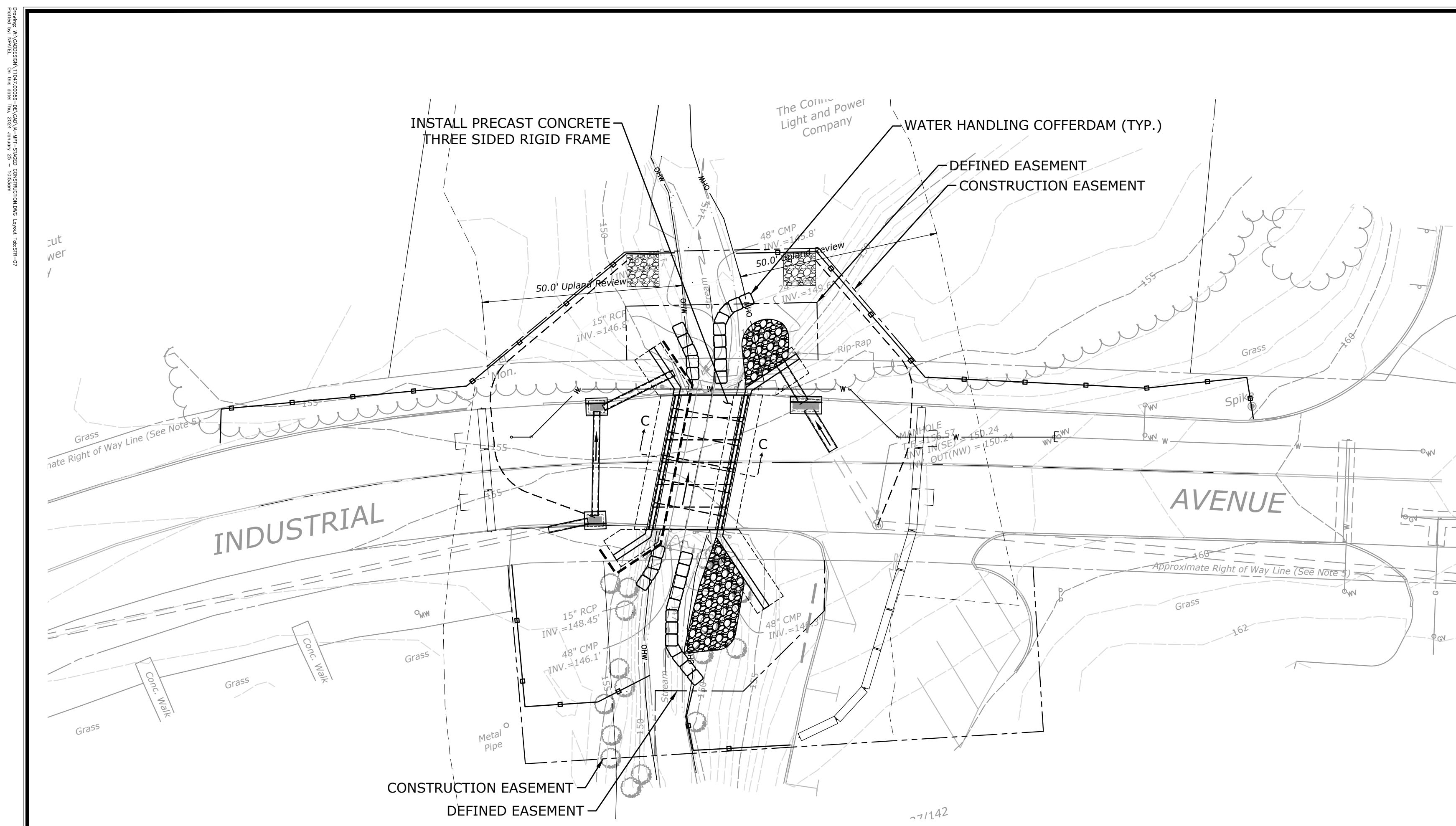
SECTION B-B
SCALE: 3/8" = 1'-0"



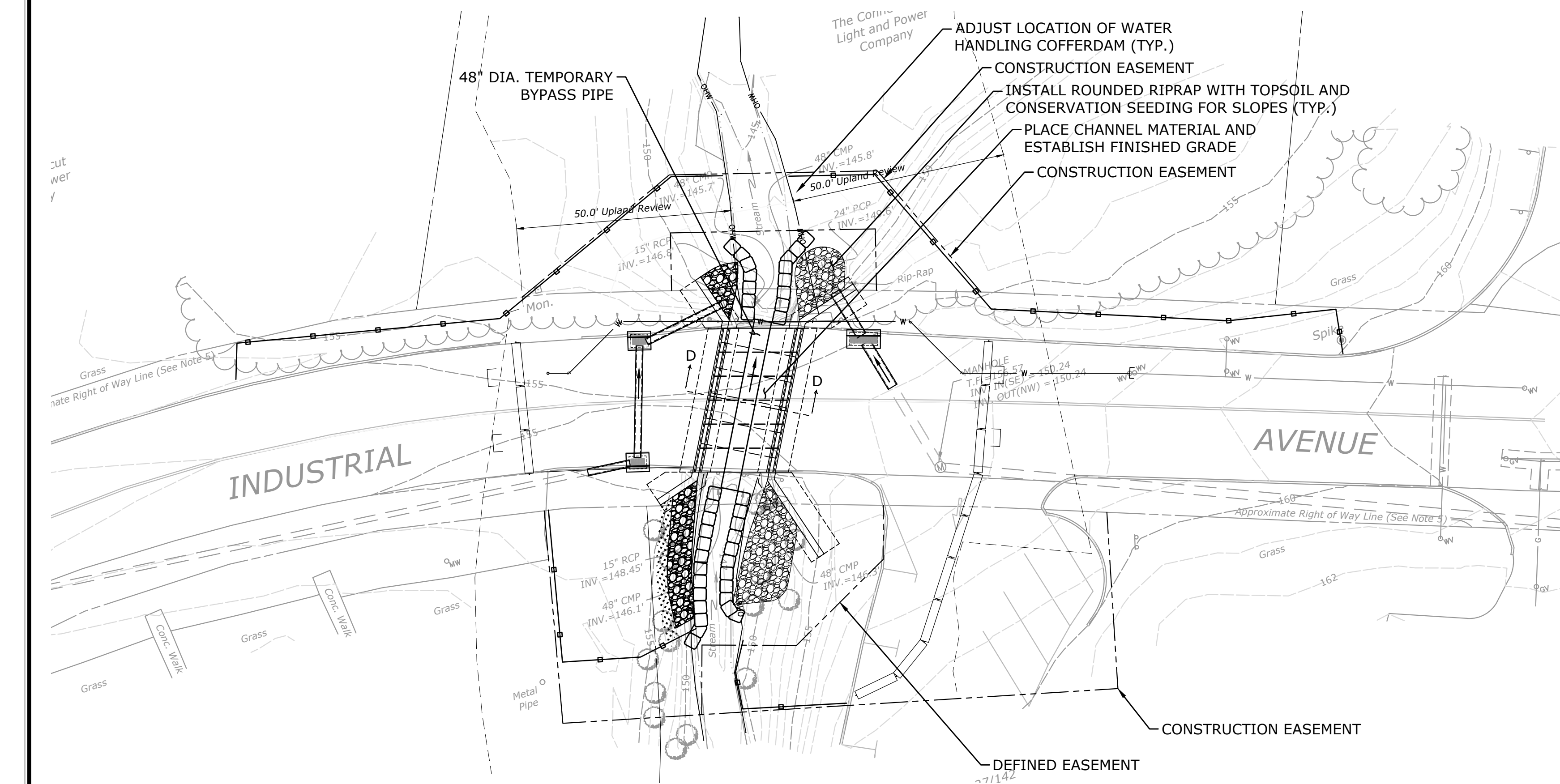
DESCRIPTION	DATE	BY

STAGED CONSTRUCTION PLANS
 REPLACEMENT OF INDUSTRIAL AVENUE
 BRIDGE (NO. 025030) OVER UNNAMED STREAM
 INDUSTRIAL AVENUE
 CHESHIRE, CONNECTICUT

DESIGNED	WRS	KP
DRAWN		CHECKED
AS SHOWN		
DATE: JANUARY 30, 2024		
PROJECT NO. 11047.00059		
DRAWING NO. STR-06		



STAGE III
SCALE: 1" = 20'-0"



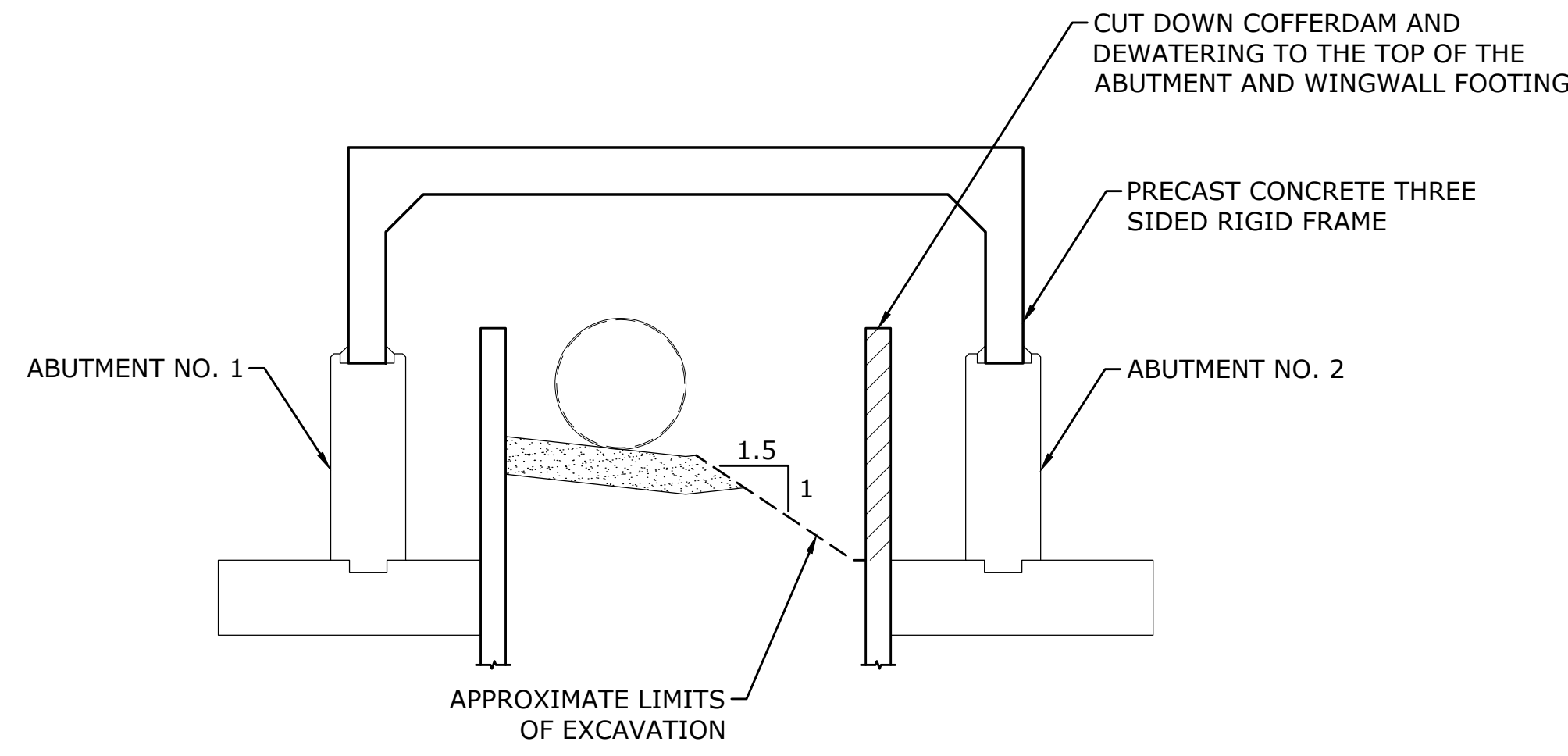
STAGE IV
SCALE: 1" = 20'-0"

SUGGESTED CONSTRUCTION SEQUENCE

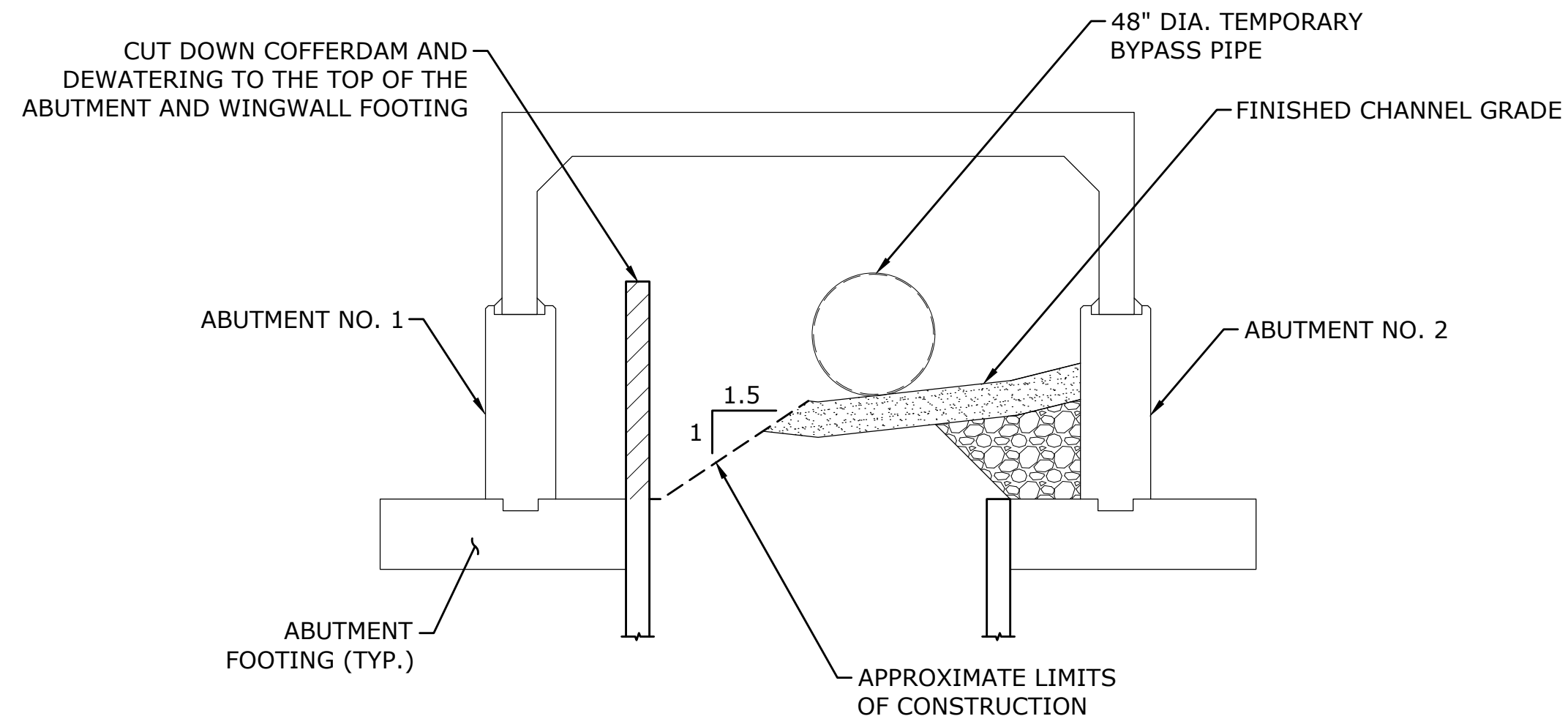
- STAGE III**
1. INSTALL PRECAST CONCRETE THREE SIDED RIGID FRAME.
 2. CONSTRUCT WINGWALL STEMS.
 3. INSTALL CATCH BASINS AND DRAINAGE PIPES AS SHOWN.
 4. BACKFILL CULVERT AND WINGWALLS (SEE NOTE 1).
 5. REMOVE TEMPORARY EARTH RETAINING SYSTEM.
 6. CUT DOWN COFFERDAM AND DEWATERING TO THE TOP OF THE ABUTMENT AND WINGWALL FOOTING.
 7. BACKFILL THE REMAINING CHANNEL MATERIAL.
 8. INSTALL ROUNDED RIPRAP WITH TOPSOIL AND CONSERVATION SEEDING FOR SLOPES AND ESTABLISH FINISHED GRADE ALONG EASTERN CHANNEL BANKS.

- STAGE IV**
1. ADJUST BYPASS PIPE AND WATER HANDLING COFFERDAM AS SHOWN.
 2. CUT DOWN COFFERDAM AND DEWATERING TO THE TOP OF THE ABUTMENT AND WINGWALL FOOTING.
 3. BACKFILL THE REMAINING CHANNEL MATERIAL.
 4. INSTALL ROUNDED RIPRAP WITH TOPSOIL AND CONSERVATION SEEDING FOR SLOPES AND ESTABLISH FINISHED GRADE ALONG WESTERN CHANNEL BANKS.

- NOTE:**
1. THE CONTRACTOR SHALL BACKFILL BOTH SIDES OF THE FRAME IN EQUAL LIFTS AT THE SAME TIME.



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



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

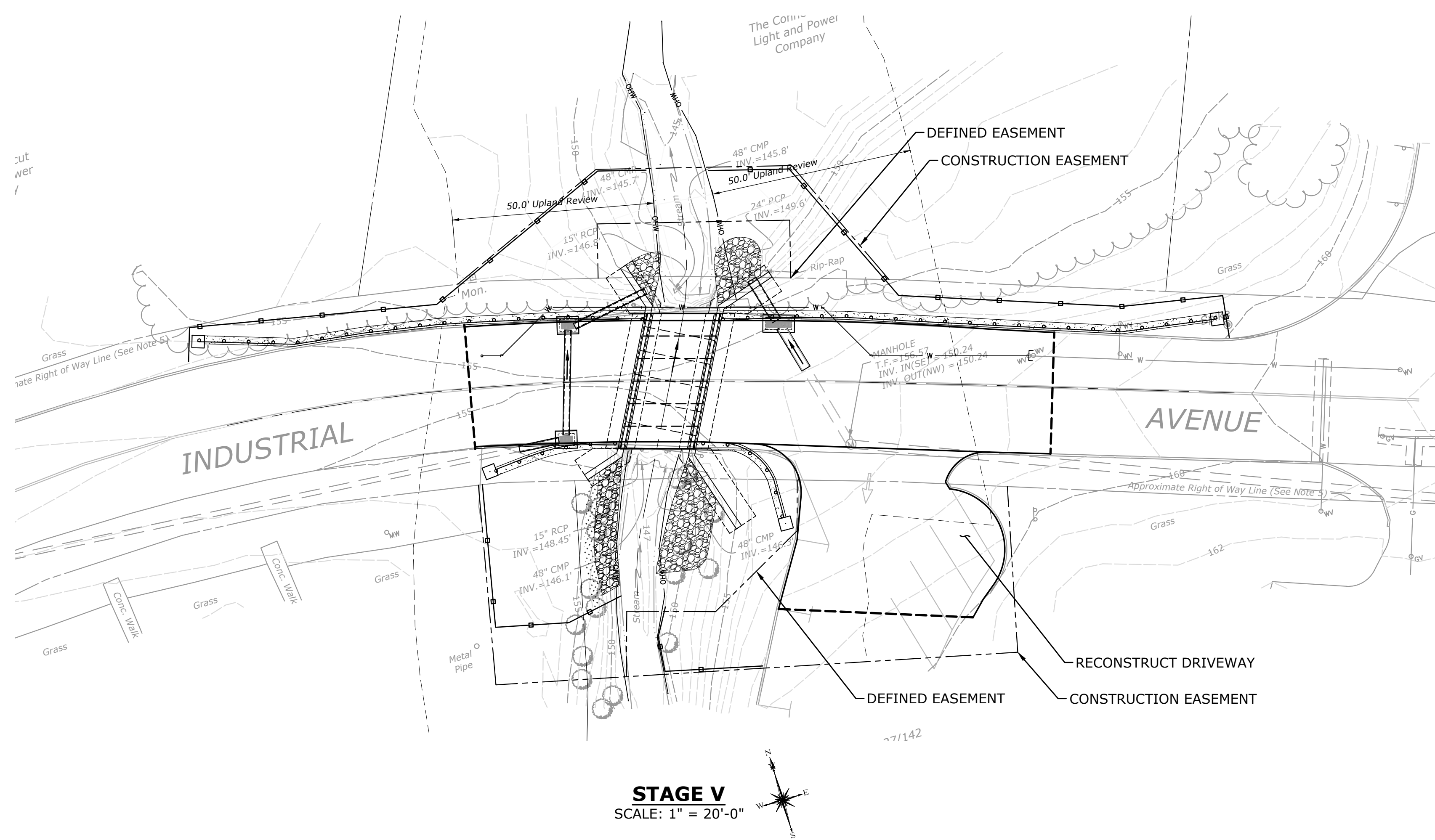


DESCRIPTION	DATE	BY

STAGED CONSTRUCTION PLANS
REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM
INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

DESIGNED	WRS	KP
DRAWN	CHECKED	
AS SHOWN		
DATE: JANUARY 30, 2024		
PROJECT NO. 11047.00059		
DRAWING NO. STR-07		

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STAGE V
SCALE: 1" = 20'-0"

SUGGESTED CONSTRUCTION SEQUENCE

- STAGE V**
1. REMOVE TEMPORARY BYPASS PIPE AND WATER HANDLING COFFERDAMS
 2. CONSTRUCT CONCRETE PARAPETS.
 3. PREPARE ROADWAY SUBGRADE, PLACE SUBBASE, PROCESSED AGGREGATE AND PAVE.
 4. RECONSTRUCT DRIVEWAY AS SHOWN.
 5. INSTALL CURBING.
 6. INSTALL APPROACH GUIDE RAIL.
 7. ESTABLISH FINISHED GRADE. PLACE TOPSOIL AND TURF ESTABLISHMENT.
 8. REMOVE SEDIMENTATION AND EROSION CONTROLS AND REOPEN ROADWAY.



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DESCRIPTION	DATE	BY

STAGED CONSTRUCTION PLANS
REPLACEMENT OF INDUSTRIAL AVENUE BRIDGE (NO. 025030) OVER UNNAMED STREAM
INDUSTRIAL AVENUE
CHESHIRE, CONNECTICUT

KP DESIGNED	WRS DRAWN	KP CHECKED
AS SHOWN		
DATE JANUARY 30, 2024		
PROJECT NO. 11047.00059		
DRAWING NO. STR-08		

SHEET NO. **17**