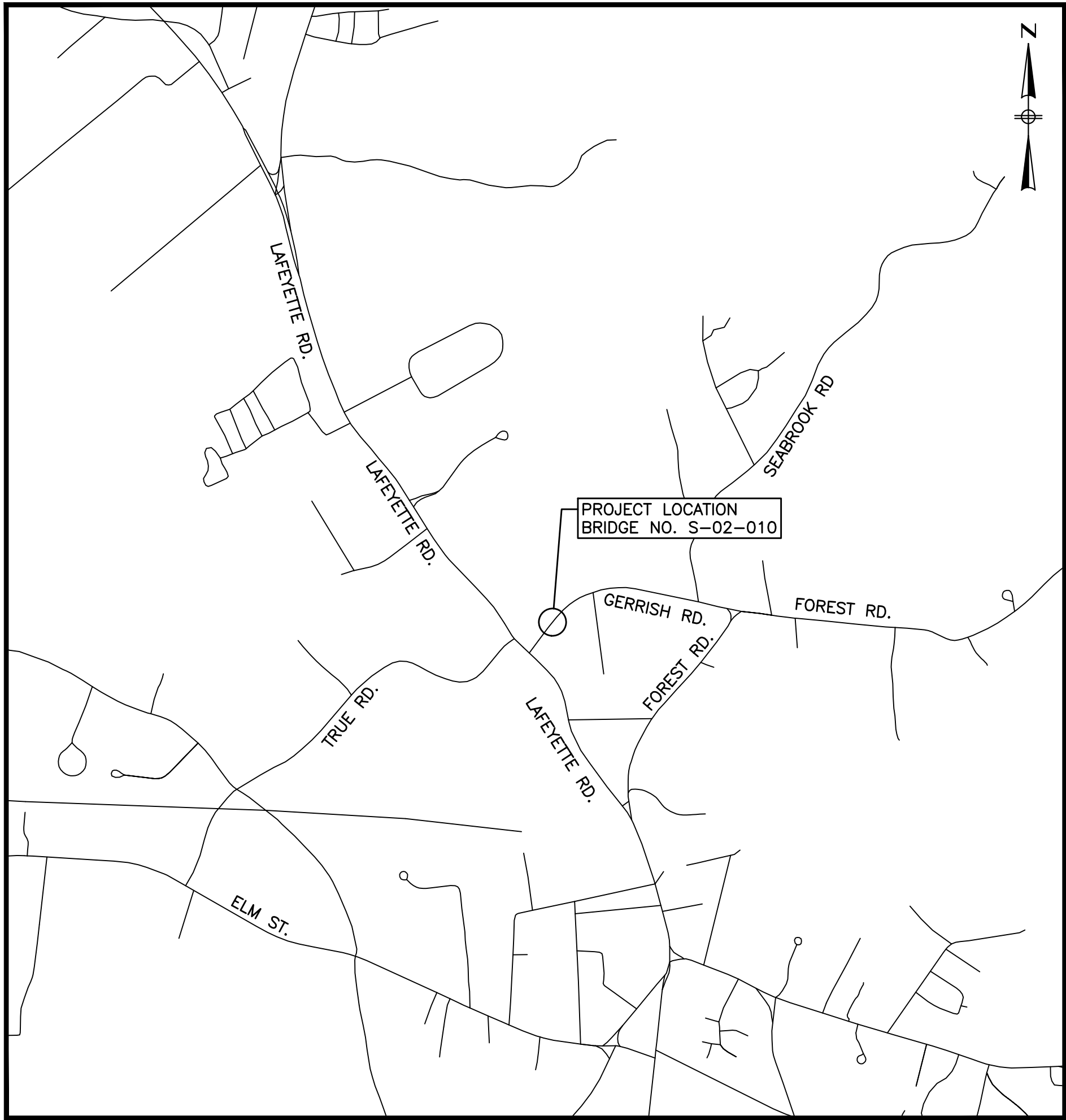


TOWN OF SALISBURY, MASSACHUSETTS  
GERRISH ROAD BRIDGE OVER SMALL POX BROOK  
BRIDGE REHABILITATION  
CONTRACT NO. 2025DPW101

JULY, 2025



○ PROJECT LOCATION

**LOCUS MAP**  
SCALE: 1" = 1000'

PLAN INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	LEGEND AND ABBREVIATIONS
3	TYPICAL SECTIONS, CONSTRUCTION DETAILS, AND PAVEMENT NOTES
4 - 5	TRAFFIC MANAGEMENT PLANS
6	BRIDGE - KEY PLAN, PROFILE, LOCUS AND INDEX
7	BRIDGE - GENERAL NOTES
8	BRIDGE - GENERAL PLAN AND ELEVATION
9 - 10	BRIDGE - CONTROL OF WATER
11	BRIDGE - DEMOLITION
12	BRIDGE - WEST ABUTMENT PLAN AND ELEVATION
13	BRIDGE - EAST ABUTMENT PLAN AND ELEVATION
14	BRIDGE - FRAMING PLAN
15	BRIDGE - DETAILS

PREPARED BY:



ISSUE DATE: JULY 9, 2025



*Christopher W. Jones* 7/8/2025  
REGISTERED PROFESSIONAL DATE

7/3/2025 1:04 PM BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE-1.0.2024) CIVIL 3D [CIVIL 3D 2024] PLOTSTYLE (BETA STB BW.STB) USER(DWONG) 0:11:40:51:14:17 - SALISBURY, MA - GERRISH ROAD DESIGN/DRAWING FILES\PLANS\SET1\1417\_LEGEND.DWG

# LEGEND

## GENERAL SYMBOLS

EXISTING	PROPOSED	
		CURB OR BERM (TYPE AS NOTED)
		EDGE OF PAVEMENT
		CATCH BASIN (OR GUTTER INLET, LEACHING BASIN, DROP INLET, CATCH BASIN CURB INLET)
		ELECTRIC HANDHOLE (NUMBER AS NOTED)
		ELECTRIC MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		WATER GATE
		CURB STOP
		HYDRANT
		FIRE ALARM BOX
		PARKING METER
		STREET LIGHT POLE
		UTILITY POLE
		UTILITY POLE w/ LIGHT

# ABBREVIATIONS

## GENERAL

ABAN.	ABANDON
ADJ.	ADJUST
ALT.	ALTERATION
APPROX.	APPROXIMATE
	BASELINE
B.B.	BITUMINOUS BERM
B.C.	BITUMINOUS CURB
BD OR BND	BOUND
BLDG.	BUILDING
B.O.	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BSW	BACK OF SIDEWALK
C.C.	CONCRETE CURB
CEM.	CEMENT
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DWY	DRIVEWAY
E.P., EOP	EDGE OF PAVEMENT
EL.	ELEVATION
ESMT.	EASEMENT
EXIST.	EXISTING
FDN.	FOUNDATION
GRAN.	GRANITE
GC	GRANITE CURB
HOR.	HORIZONTAL
IP	IRON PIPE
JCT	JUNCTION
LP	LOW POINT
MB	MAIL BOX
MHB	MASSACHUSETTS HIGHWAY BOUND
O.C.	ON CENTER
PCC	POINT OF COMPOUND CURVATURE
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PERM.	PERMANENT
PGL	PROFILE GRADE LINE
PROP.	PROPOSED
PVC	POINT OF VERTICAL CURVATURE
PVMT.	PAVEMENT
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
REM.	REMOVE
REMOD.	REMODEL
RET.	RETAIN
RR	RAILROAD
RT.	RIGHT
SB	SOUTH BOUND OR STONE BOUND
SDWK.	SIDEWALK
SHT.	SHEET
SHLD.	SHOULDER
STA.	STATION
TEMP.	TEMPORARY
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP.	TYPICAL
VAR.	VARIABLE
VERT.	VERTICAL
VGC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP

## TRAFFIC SIGNAL SYSTEMS

R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR AMBER
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
FY	FLASHING CIRCULAR AMBER
+FY	FLASHING YELLOW LEFT ARROW
R→	STEADY RED RIGHT ARROW
Y→	STEADY AMBER RIGHT ARROW
G→	STEADY GREEN RIGHT ARROW
←R	STEADY RED LEFT ARROW
←Y	STEADY AMBER LEFT ARROW
←G	STEADY GREEN LEFT ARROW
W	STEADY WALK (PERSON WALKING) - LUNAR WHITE
DW	STEADY DON'T WALK (HAND) - PORTLAND ORANGE
FDW	FLASHING DON'T WALK (FLASHING HAND) - PORTLAND ORANGE

## UTILITIES

ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CI	CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CMP	CORRUGATED METAL PIPE
C	CONDUIT
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FM	FORCE MAIN
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GG	GAS GATE
HDW	HEADWALL
HYD.	HYDRANT
INV.	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY-VINYL-CHLORIDE PIPE
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE (CLASS III UNLESS NOTED)
SD	SUBDRAIN
SMH	SEWER MANHOLE
TS	TRAFFIC SIGNAL
TSV&B	TAPPING SLEEVE, VALVE AND BOX
UP	UTILITY POLE
UPL	UTILITY POLE w/ LIGHT
UPT	UTILITY POLE w/ TRANSFORMER
VCP	VITRIFIED CLAY PIPE
WIP	WROUGHT IRON PIPE
WG	WATER GATE
WM	WATER METER/WATER MAIN

## TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	
		CONTROL CABINET GROUND MOUNTED WITH FOUNDATION
		CONTROL CABINET POLE MOUNTED
		CONTROLLER PHASE
		MAST ARM, SHAFT & BASE (ARM LENGTH AS NOTED)
		VEHICULAR SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION AS NOTED)
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		VEHICULAR SIGNAL HEAD (REMOVED & RESET)
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD, OPTICALLY PROGRAMMED
		PULL BOX 12"x12" OR HANDHOLE
		LOOP DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		PRE-EMPTION DETECTOR
		PRE-EMPTION CONFIRMATION STROBE
		SIGNAL CONDUIT (SINGLE RUN)
		SIGNAL CONDUIT (DOUBLE RUN)
		SIGNAL POST & BASE
		MAGNETIC DETECTOR
		SCHOOL ZONE SPEED LIMIT SIGN
		MICROWAVE OR ULTRASONIC DETECTOR
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE

## PAVEMENT MARKINGS AND SIGNING SYMBOLS

### PROPOSED

CW	CROSSWALK, 2 - 12" WHITE LINES (8" WIDTH)
SL	STOP LINE - 12" WHITE LINE 4' BEHIND CW (TYP.)
SWEL	SOLID WHITE EDGE LINE - 4"
SWCHL	SOLID WHITE CHANNELIZING LINES - 12" (SPACING NOTED)
SWGL	SOLID WHITE GORE LINE 12" @ 33°, (SPACING NOTED)
SWLL	SOLID WHITE LANE LINE - 4"
SWPL	SOLID WHITE PARKING LINE - 4"
BWLL	BROKEN WHITE LANE LINE - 4"
DWLEX	DOTTED WHITE LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
DYLEX	DOTTED YELLOW LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
BYCL	BROKEN YELLOW CENTERLINE - 4"
DYCL	DOUBLE YELLOW CENTERLINE - 2 - 4" LINES
SYEL	SOLID YELLOW EDGE LINE - 4"
SYGL	SOLID YELLOW GORE LINE 12" @ 33°, (SPACING NOTED)
SYLL	SOLID YELLOW LANE LINE - 4"
SYCTEL	SOLID YELLOW CYCLE TRACK EDGE LINE - 4"
DYCTCL	DOTTED YELLOW CYCLE TRACK CENTERLINE - 4" (3' LINE & 9' GAP)
	SCHOOL ZONE - WHITE
	HANDICAP SYMBOL - WHITE
	PAVEMENT ARROW - WHITE
ONLY	LEGEND "ONLY" - WHITE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	CM
DESIGNED BY:	KL
CHECKED BY:	CJ



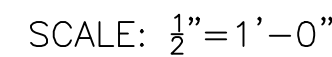
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TITLE	<b>GERRISH ROAD BRIDGE OVER SMALL POX BROOK SALISBURY, MA</b>  LEGEND AND ABBREVIATIONS  BRIDGE NO. S-02-010 (BWV)
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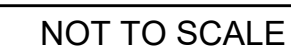
BETA JOB NO.	11417
ISSUE DATE	JULY 9, 2025
SHEET NO.	2 OF 15



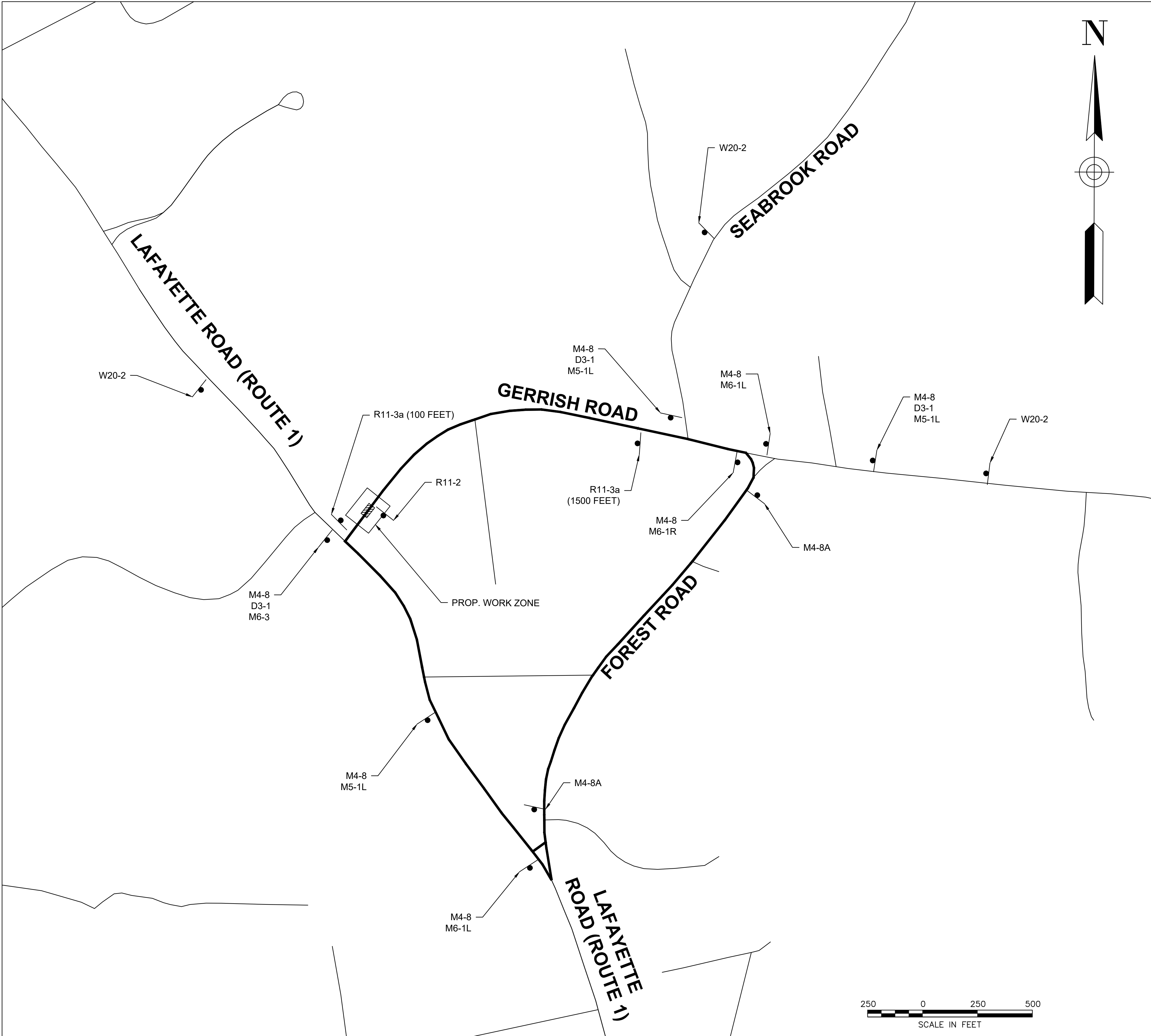
SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER  
8" GRAVEL BORROW, TYPE B



SCALE:  $\frac{1}{2}"=1'-0"$



7/3/2025 1:04 PM C:\1140051\1417 - SALISBURY, MA - GERRISH ROAD DESIGN\DRAWING FILES\PLAN\SET1\1417\_TMP.DWG BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE-10.2024) CIVIL 3D (CIVIL\_3D\_2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(DWONG)



DETOUR PLAN & ADVANCED SIGNAGE SCHEMATIC  
FOR GERRISH ROAD

SCALE: 1" = 250'

GENERAL NOTES:

1. ALL DETOURS ARE ESTABLISHED FOR 24-HOURS A DAY. TEMPORARY DETOUR SIGNING, BARRICADES, AND ALL OTHER NECESSARY DETOUR TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF DETOUR.
2. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (M.U.T.C.D.) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
3. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D.
4. DETOUR SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK REQUIRING DETOUR.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER AND MASSDOT
7. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	CM
DESIGNED BY:	KL
CHECKED BY:	CJ

REGISTERED PROFESSIONAL

PREPARED BY

SUBCONSULTANT

SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

TITLE

GERRISH ROAD BRIDGE OVER SMALL POX BROOK  
SALISBURY, MA  
TRAFFIC MANAGEMENT PLANS  
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO. 11417

ISSUE DATE JULY 9, 2025




SHEET NO. 4 OF 15



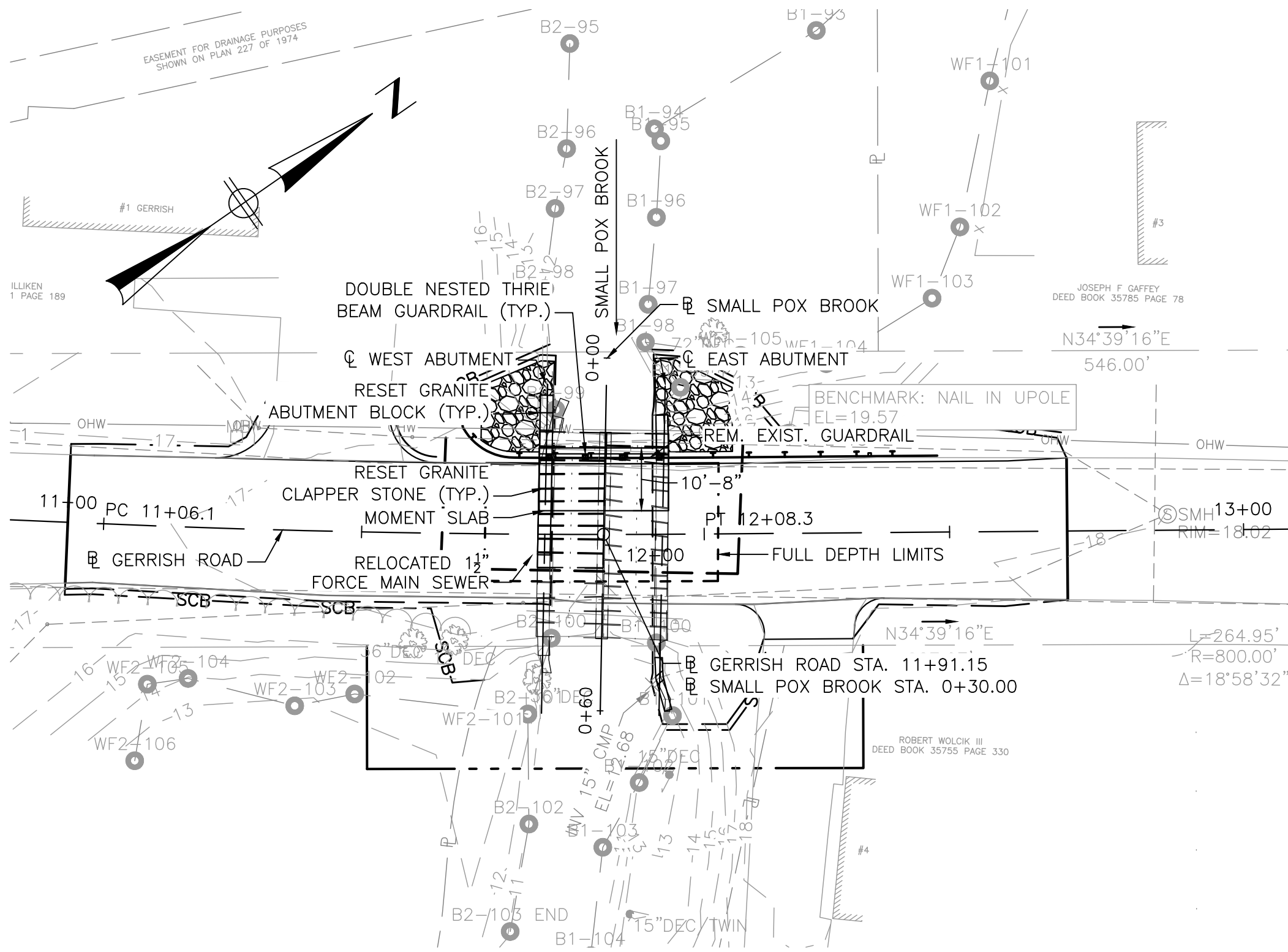
GENERAL NOTES:

- CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

2. NUMBER OF SIGNS REQUIRED AND NUMBER OF SUPPORTS REQUIRED ASSUME THAT EACH SET-UPS FOR ROUTE 2 EB AND ROUTE 2 WB WORK WILL NOT OCCUR CONCURRENTLY. SIGNS CAN BE REUSED FOR EACH SET-UP AND THE TOTAL NUMBER OF SIGNS AND SUPPORTS DEPICTED IN THE SIGN SUMMARY IS LARGER OF THE TWO SET-UPS.

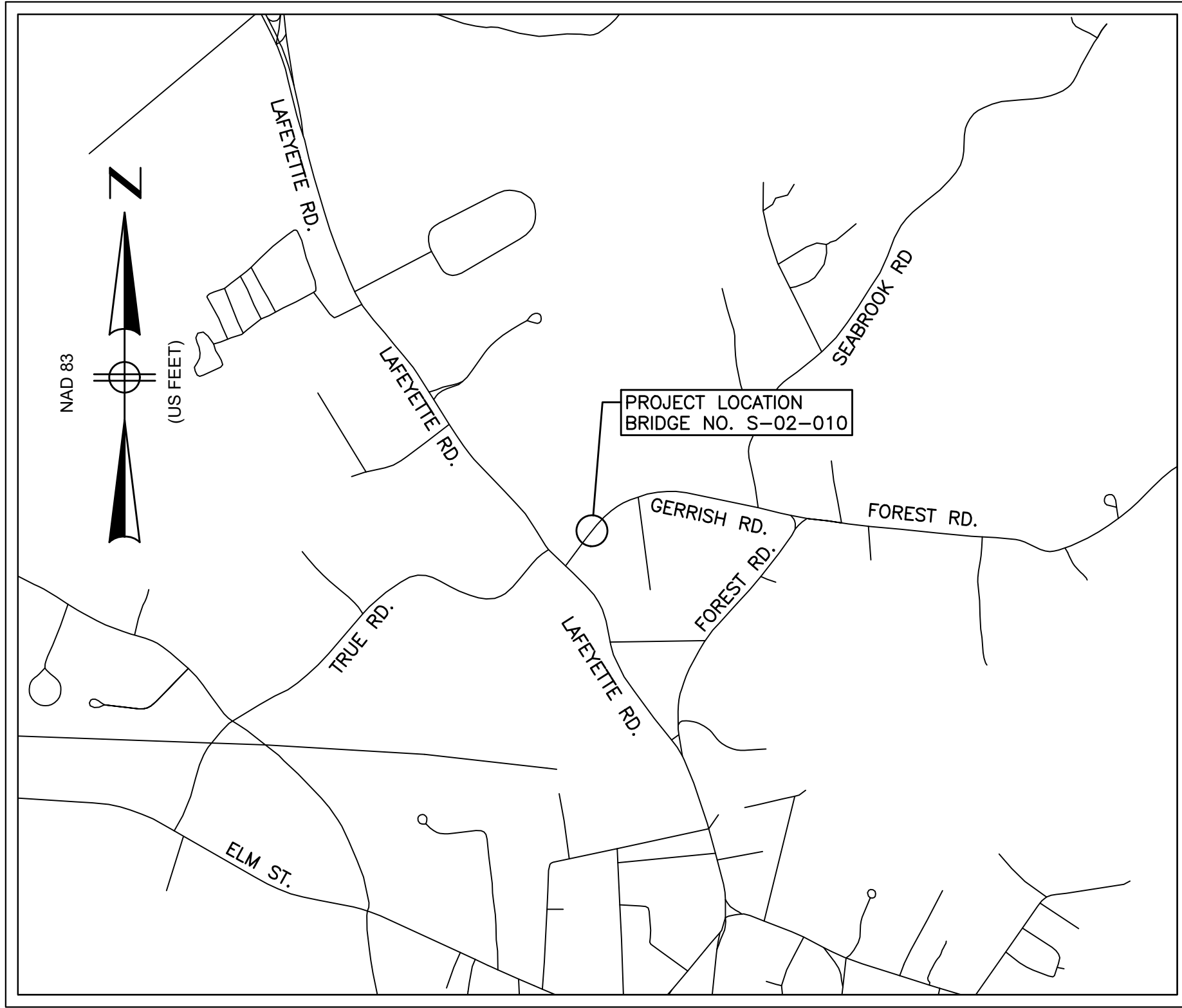
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					DESIGNED BY: KL						ISSUE DATE JULY 9, 2025
					CHECKED BY: CJ	 7/8/2025					SHEET NO. 5 OF 15
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS							

BETA GROUP INC. TEMPLATE (BETA STANDARD TEMPLATE - 10.2024) CIVIL 3D (CIVIL 3D 2024) PLOTSTYLE (BETA STD.BW.STB) USER(DWONG)  
0:11:40:51:14:17 - SALISBURY, MA - GERRISH ROAD DESIGN/DRAWING FILES/PLANS/SET1/1417\_BK(1).DWG  
2/7/2025 11:10 AM



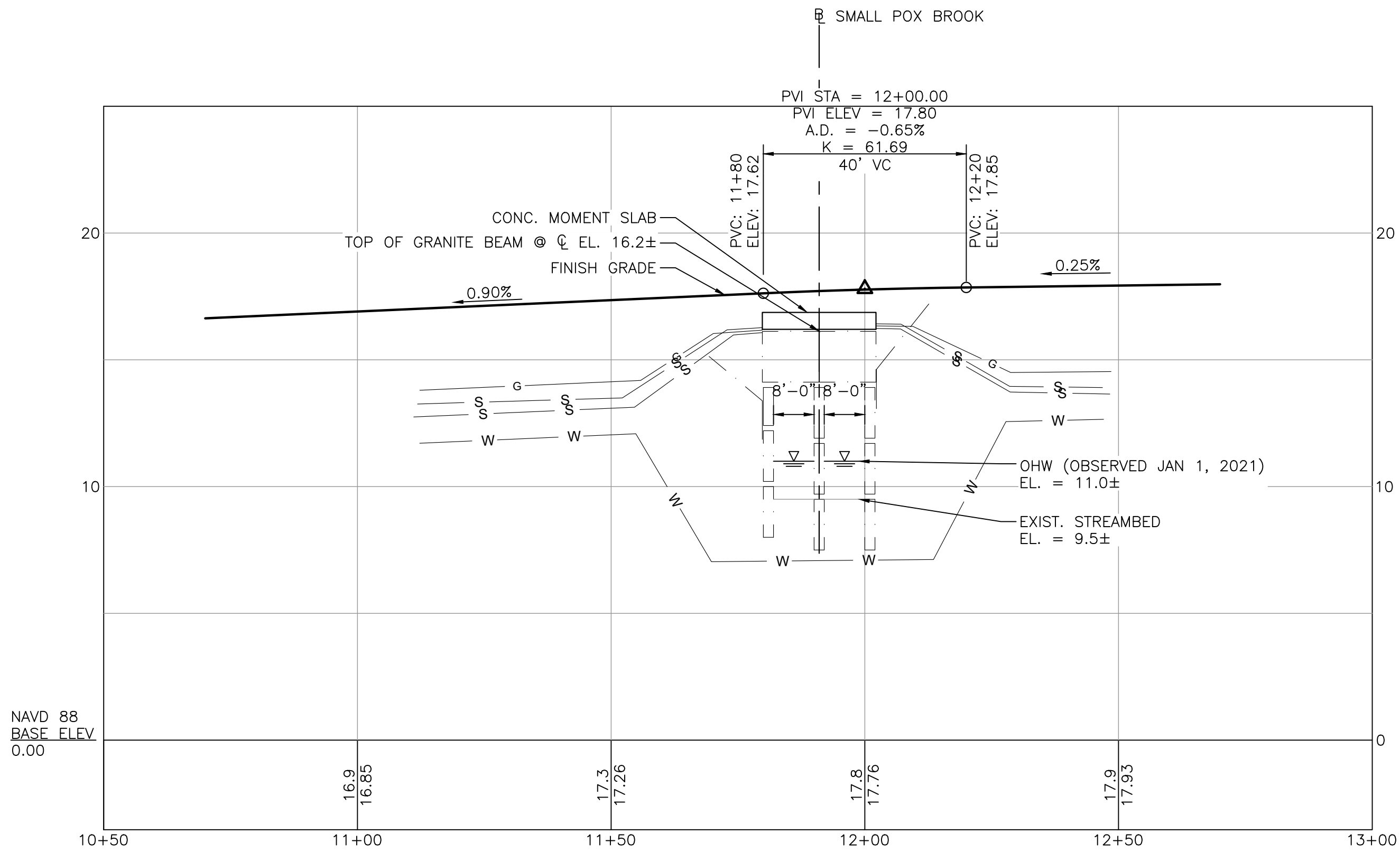
KEY PLAN

SCALE: 1" = 20'



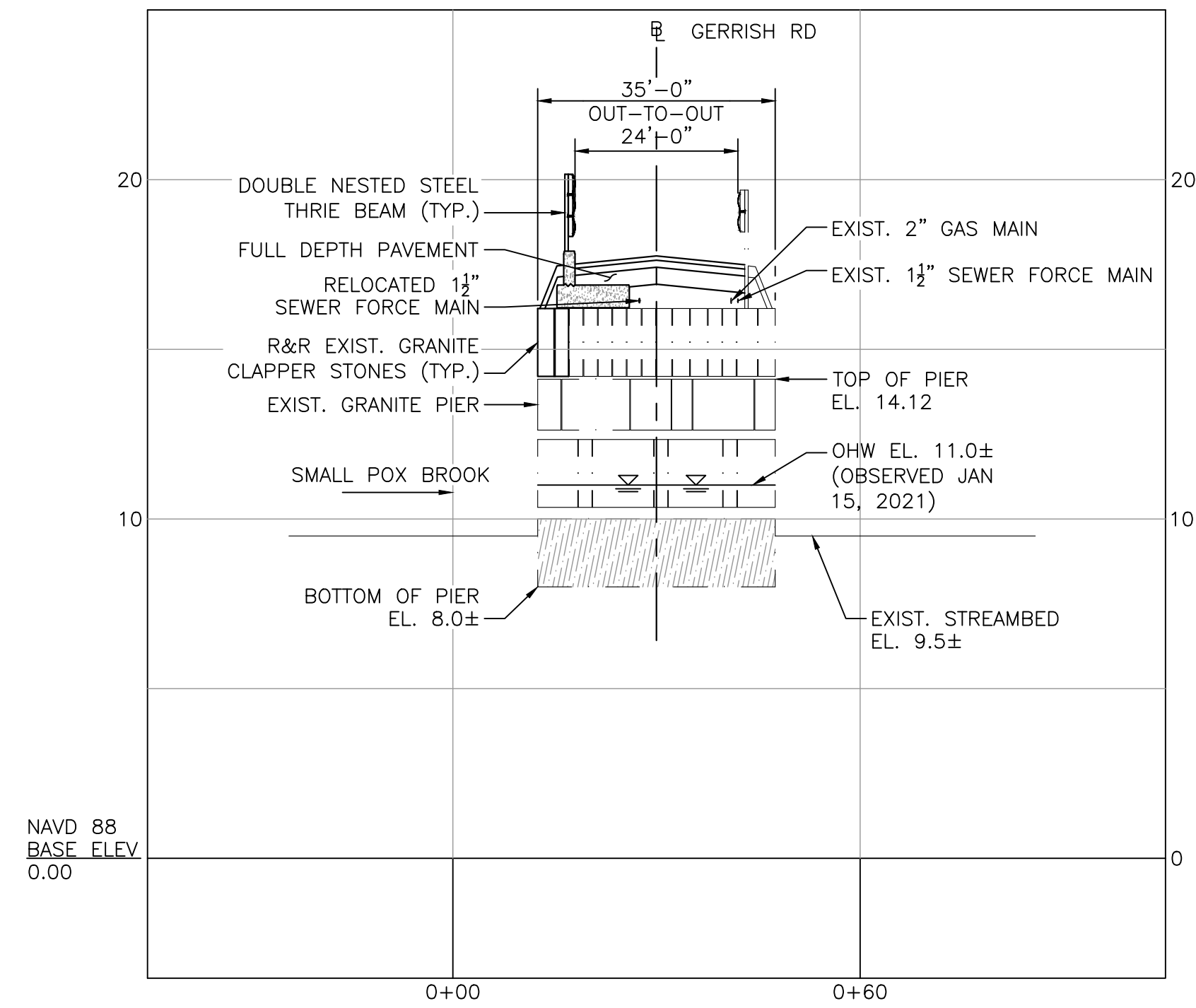
LOCUS

SCALE: 1" = 1000'



GERRISH ROAD PROFILE

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1/4" = 1'-0"



SMALL POX BROOK PROFILE

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1/4" = 1'-0"

SHEET LIST INDEX

KEY PLAN, PROFILE, LOCUS AND INDEX	6
GENERAL NOTES	7
GENERAL PLAN AND ELEVATION	8
CONTROL OF WATER (1 OF 2)	9
CONTROL OF WATER (2 OF 2)	10
DEMOLITION	11
WEST ABUTMENT PLAN AND ELEVATION	12
EAST ABUTMENT PLAN AND ELEVATION	13
FRAMING PLAN	14
DETAILS	15

COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS GEN LAWS CH 85 S 35  
2-11-25  
DISTRICT BRIDGE ENGINEER DATE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY: DW & MN
DESIGNED BY: PK
CHECKED BY: CJ



SUBCONSULTANT

SCALE
AS SHOWN

TITLE
GERRISH ROAD BRIDGE OVER SMALL POX BROOK SALISBURY, MA KEY PLAN, PROFILE, LOCUS AND INDEX BRIDGE NO. S-02-010 (BWV)

BETA JOB NO.	11417
ISSUE DATE	JULY 9, 2025
SHEET NO.	6 OF 15



GENERAL NOTES

DESIGN:

THE EXISTING GRANITE CLAPPER BRIDGE IS PROPOSED TO BE PARTIALLY REMOVED & RESET AT THE SAME LOCATION. WHERE APPLICABLE, DESIGN (GUARDRAIL & CEM. CONC. MOMENT SLAB) IS IN ACCORDANCE WITH THE 2020 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION FOR HL-93 LOADING.

SURVEY BENCHMARKS:

BENCHMARK 1: NAIL IN UP  
N: 3135428.1149  
E: 826556.2335  
EL: 19.57'

BENCHMARK 2: RR SPIKE IN UP  
N: 3135188.1668  
E: 826497.1298  
EL: 18.39'

SURVEY NOTES:

THE HORIZONTAL DATUM FOR THIS SURVEY IS THE MASSACHUSETTS COORDINATE SYSTEM, NAD 1983, MAINLAND ZONE. THE VERTICAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SAID DATUMS WERE ESTABLISHED VIA GPS OBSERVATIONS UTILIZING REALIZATION NAD83(2011) AND GEOID 12A.

THE PLAN IS THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY HANCOCK ASSOCIATES IN DECEMBER 2020.

ABUTTING PROPERTY LINES HAVE BEEN COMPILED FROM RECORD INFORMATION.

GERRISH ROAD RIGHT-OF-WAY LINES ARE APPROXIMATELY SHOWN BASED ON THE 1968 COUNTY LAYOUT #3054.

SCALES:

SCALES NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF-SIZE PRINTS (A3).

FOUNDATIONS:

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER.

UNSUITABLE MATERIAL:

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE ENGINEER.

CONCRETE:

ALL CONCRETE SHALL BE 5000 PSI HP CONCRETE.

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION: #4 BARS #5 BARS #6 BARS

1. NONE	16"	19"	23"
2. 12" OF CONCRETE BELOW BAR	20"	25"	30"
3. EPOXY COATED BARS, COVER <3db, OR CLEAR SPACING <6db	23"	29"	34"
4. COATED BARS, ALL OTHER CASES	18"	23"	27"
5. CONDITION 2. AND 3.	26"	32"	39"
6. CONDITION 2. AND 4.	24"	30"	36"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

MEMBRANE WATERPROOFING:

ALL MEMBRANE WATERPROOFING USED ON MOMENT SLABS SHALL BE MEMBRANE WATERPROOFING FOR BRIDGE DECKS.

UTILITY NOTES:

UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN ENGINEERING OFFICES, TOWN D.P.W., MASSDOT AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.

PRIVATE 1½" SEWER FORCE MAINS SERVING #1 GERRISH ROAD AND #60 LAFAYETTE ROAD ARE PLOTTED USING TIE CARDS PROVIDED BY THE TOWN OF SALISBURY DPW.

CONTRACTOR SHALL COORDINATE THE TEMP. SHUT DOWN OF THE PRIVATE FORCE MAINS WHEN NEEDED. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE 1½" SEWER LINE BACK INTO GERRISH ROAD AND CONNECTION TO THE TOWN SYSTEM.

NATIONAL GRID OWNS A 2" GAS MAIN ON THE SOUTH SIDE OF GERRISH ROAD.

TOWN OF SALISBURY OWNS AN 8" WATER MAIN ON THE NORTH SIDE OF GERRISH ROAD. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF THE BRIDGE RECONSTRUCTED WORK.

DRAIN MANHOLES EXIST IN GERRISH ROAD NORTHEAST AND OUTSIDE OF THE PROJECT LIMITS. NO RECORD DRAIN PLANS WERE PROVIDED BY DPW.

ESTIMATED QUANTITIES

(NOT GUARANTEED)

GERRISH ROAD

ITEM DESCRIPTION	QUANTITY	UNITS
BRIDGE EXCAVATION	70	CY
GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	40	CY
STONE MASONRY WALL REMOVED AND REBUILT IN CEMENT MORTAR	2	CY
SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)	49	TON
SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)	10	TON
DUMPED RIPRAP	24	TON
CONCRETE GROUT FILLED FABRIC BAGS	19	CF
CONTROL OF WATER	1	LS
ALTERATION TO BRIDGE STRUCTURE S-02-010	1	LS

PLAN REVISION:

IF THERE ARE REVISIONS TO THE APPROVED PLANS, THE CONTRACTOR SHALL SUBMIT THESE CHANGES TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ONCE THESE REVISIONS ARE APPROVED BY BETA GROUP, THE PLANS SHALL THEN BE SUBMITTED TO MASSDOT FOR FILING.

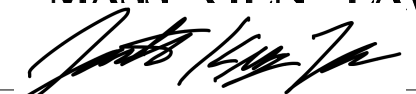
EXISTING CONDITIONS:

BEFORE DEMOLITION WORK STARTS THE CONTRACTOR SHALL VERIFY AND RECORD CRITICAL DIMENSIONS AND ELEVATIONS REQUIRED TO MATCH EXISTING.

ALL DIMENSIONS AND DETAILS SHOWN FOR THE EXISTING STRUCTURE ARE NOT GUARANTEED TO BE CORRECT, THEY WERE DEVELOPED THROUGH INCOMPLETE EXISTING INFORMATION. MASSDOT AND THE TOWN OF SALISBURY HAVE NO EXISTING DRAWINGS FOR THE STRUCTURE. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR THE COMPETITION OF ALL WORK BY FIELD MEASUREMENTS AND SURVEY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF AND SHALL NOT COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE SUBMITTED SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER. SHOP DRAWINGS SHALL STATE THAT THE EXISTING DIMENSIONS, ANGLES, ELEVATIONS AND FIELD CONDITIONS HAVE BEEN VERIFIED BY THE CONTRACTOR.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS REQUIRED FOR THE PROPER PERFORMANCE OF THEIR WORK. FIELD CONDITIONS MAY EXIST WHICH DEVIATE FROM THE TYPICAL AND THEORETICAL DIMENSIONS SHOWN ON PLANS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FABRICATION AND FIT OF THEIR WORK.

COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS GEN LAWS CH 85 S 35  
  
DISTRICT BRIDGE ENGINEER  
2-11-25  
DATE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	

DRAWN BY: DW & MN
DESIGNED BY: PK
CHECKED BY: CJ

REGISTERED PROFESSIONAL  


PREPARED BY  
  
www.BETA-Inc.com

SUBCONSULTANT
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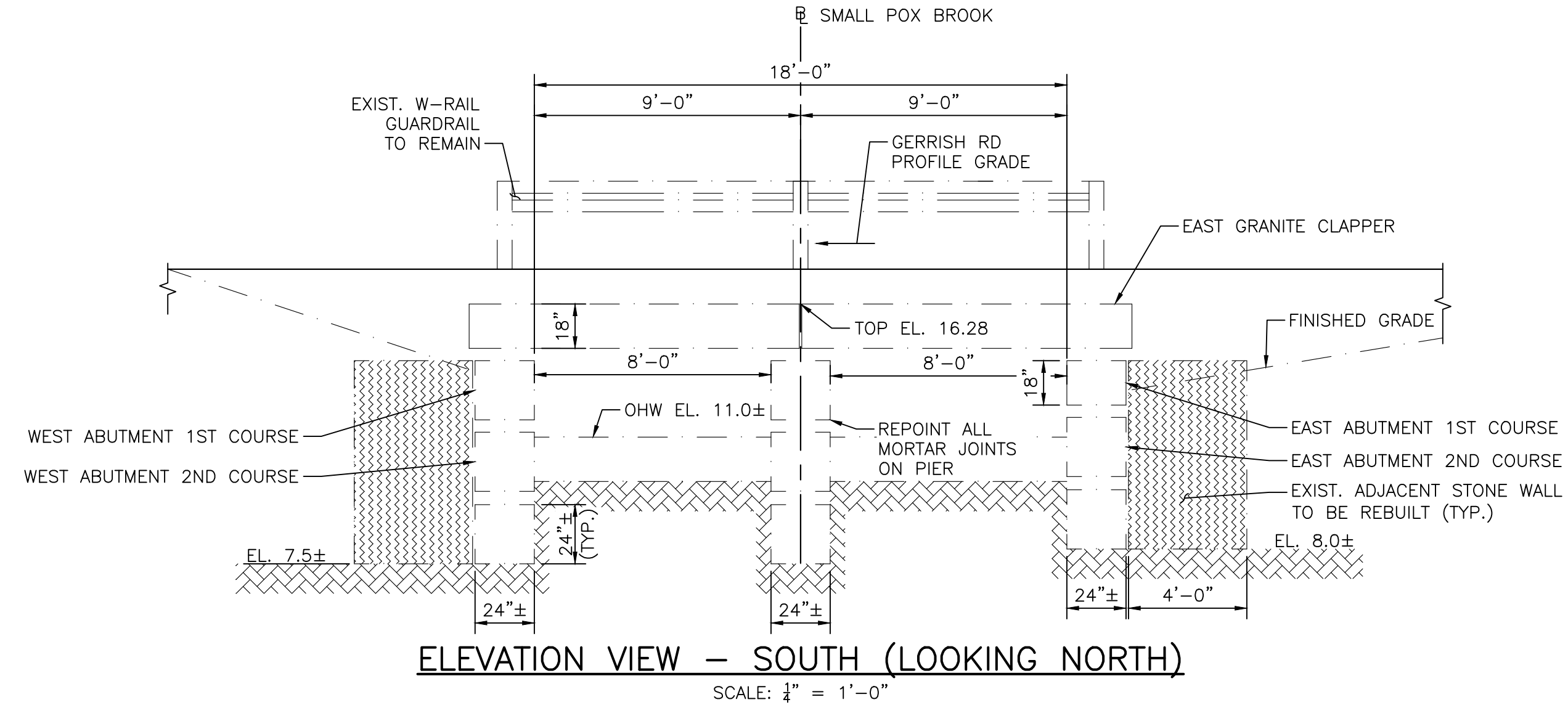
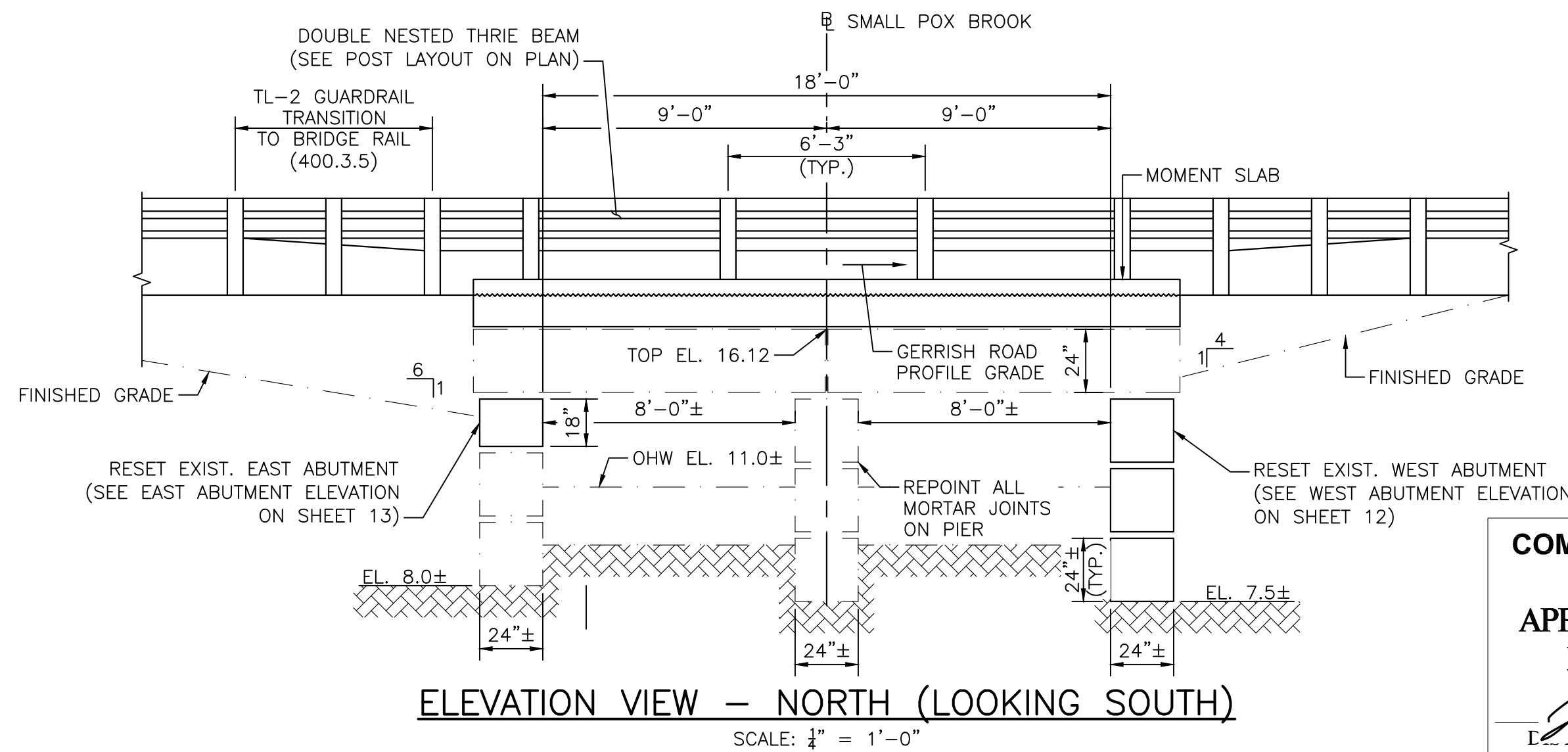
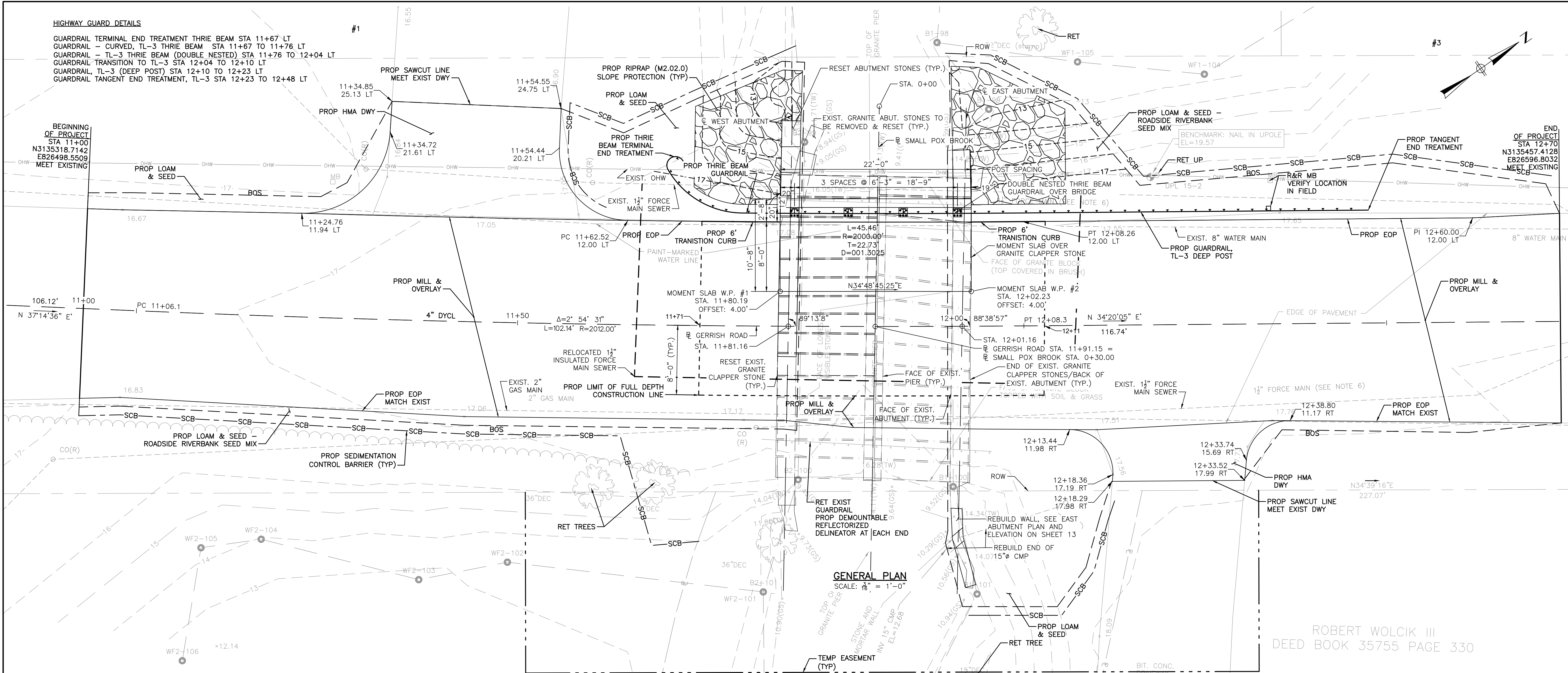
SCALE  AS SHOWN
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TITLE GERRISH ROAD BRIDGE OVER SMALL POX BROOK SALISBURY, MA GENERAL NOTES  BRIDGE NO. S-02-010 (BWV)
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BETA JOB NO. 11417
ISSUE DATE JULY 9, 2025
SHEET NO. 7 OF 15



BETA GROUP INC. TEMPLATE (BETA) STANDARD TEMPLATE - 10.2024 CIVIL 3D (CIVIL 3D 2024) PLOTSTYLE (BETA) SITE BW (STB) USER(DWONG)  
0:11:40:51:14:17 - SALISBURY, MA - GERRISH ROAD DESIGN/DRIVING FILES/PLANS/SET1/1417\_BK3/DWG  
2/7/2025 11:10 AM



COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS. GEN. LAWS CH 85 S 35  
DATE 2-11-25

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
DW & MN  
DESIGNED BY:  
PK  
CHECKED BY:  
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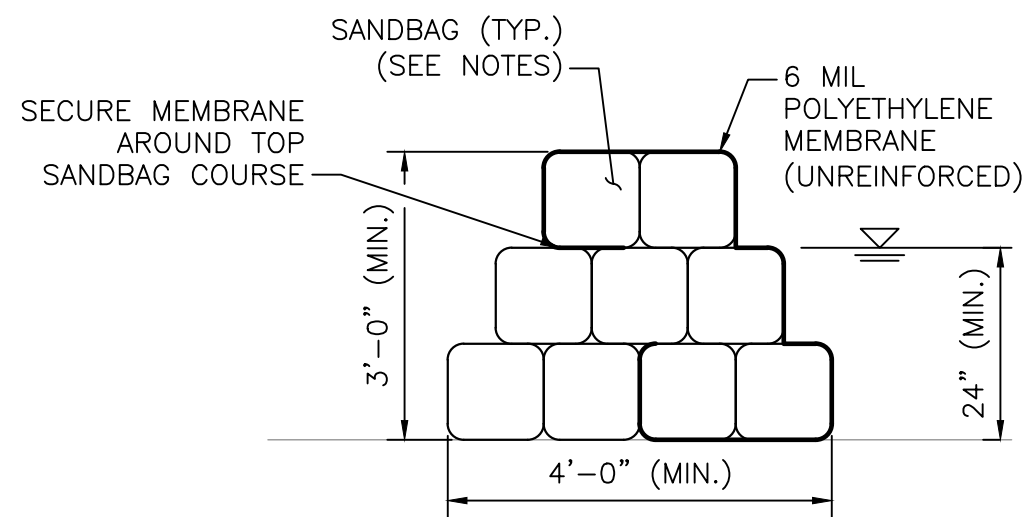
SUBCONSULTANT

SCALE  
AS SHOWN

TITLE  
**GERRISH ROAD BRIDGE OVER SMALL POX BROOK**  
**SALISBURY, MA**  
GENERAL PLAN AND ELEVATION  
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO. 11417  
ISSUE DATE JULY 9, 2025  
SHEET NO. 8 OF 15





## SAND BAG PREPARATION

1. UTILIZE POLYPROPYLENE BAGS ABOUT 14"-18" WIDE AND 30"-36" DEEP.
2. A HEAVY BODIED OR SANDY SOIL IS MOST DESIRABLE FOR FILLING SANDBAGS ON-SITE SOURCES MAY BE UTILIZED, AS APPROPRIATE WITH THE APPROVAL OF THE ENGINEER.
3. BAGS SHOULD BE FILLED BETWEEN ONE-THIRD TO ONE-HALF OF THEIR CAPACITY TO PREVENT THE BAG FROM BEING TOO HEAVY AND PERMITS THE BAGS TO BE STACKED WITH A GOOD SEAL.

## SAND BAG PLACEMENT

1. REMOVE ANY DEBRIS FROM THE AREA WHERE THE BAGS ARE TO BE PLACED.
2. FOLD THE OPEN END OF THE UNFILLED PORTION OF THE SANDBAG TO FORM A TRIANGLE.
3. PLACE THE PARTIALLY FILLED BAGS LENGTHWISE AND PARALLEL TO THE DIRECTION OF FLOW WITH THE OPEN END FACING AGAINST THE WATER FLOW. XTUCK THE FLAPS UNDER, KEEPING THE UNFILLED PORTION UNDER THE WEIGHT OF THE SACK.
4. PLACE SUCCEEDING BAGES ON TOP, OFFSETTING BY ONE-HALF (I.E. RUNNING BOND) OF THE PREVIOUS BAG AND STAMPING INTO PLACE TO ELIMINATE VOIDS AND FORM A TIGHT SEAL.
5. STAGGER THE JOINT CONNECTIONS WHEN MULTIPLE LAYERS ARE NECESSARY USING THE PYRAMID PLACEMENT METHOD.
6. ALL SANDBAG BERMS SHALL BE A MINIMUM OF THREE BAGS HIGH, UNLESS NOTED OTHERWISE.
7. PLACE POLYETHYLENE LINER ALONG WATER SIDE OF COFFERDAM AND TUCK LINER INTO TOP COURSE OF SANDBAGS AS SHOWN ON THE DETAIL ON THIS PLAN. STABILIZE LINE WITH WOODEN STAKE AND ADDITIONAL SANDBAG IN STREAM.

## PYRAMID PLACEMENT METHOD

1. THE PYRAMID PLACEMENT METHOD IS USED TO INCREASE THE HEIGHT OF SANDBAG PROTECTION.
2. PLACE THE SANDBAGS TO FORM A PYRAMID BY ALTERNATING HEADER COURSES (BAGS PLACED CROSSWISE) AND STRETCHER COURSES (BAGS PLACED LENGTHWISE).
3. STAMP EACH BAG IN PLACE, OVERLAP SACKS, MAINTAIN STAGGERED JOINT PLACEMENT, AND TUCK IN ANY LOOSE ENDS.

## CONSTRUCTION PHASING & CONTROL OF WATER NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE CONTROL OF WATER (C.O.W.) SYSTEM AND SHALL SUBMIT A C.O.W. PLAN TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION FOR APPROVAL. THE C.O.W. SYSTEM SHOWN IN THIS PLAN IS CONCEPTUAL ONLY.
2. GERRISH ROAD SHALL BE CLOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC AT THE GERRISH ROAD BRIDGE CROSSING PRIOR TO BEGINNING THE WORK. DETOUR SIGNS WILL BE INSTALLED IN ACCORDANCE WITH THE TEST MUTED AND THE TEMPORARY TRAFFIC CONTROL PLANS INCLUDED IN THESE CONSTRUCTION DRAWINGS. ABUTTING DRIVEWAYS SHALL REMAIN ACCESSIBLE AT ALL TIMES.
3. THE STOCKPILING OF GRANITE BLOCKS SHALL BE KEPT WITHIN THE LIMITS OF WORK ON GERRISH ROAD. THE CONTRACTOR SHALL SURROUND THE GRANITE BLOCKS WITH COMPOST FILTER TUBES OR APPROVED EQUAL EROSION CONTROL MEASURES.
4. SOIL STOCKPILES SHALL BE CONTAINED AND SURROUNDED BY DOUBLE-STAKED STRAW BALES, OR SILT FENCE ENTRENCHED 6" INTO THE GROUND WITH STRAW BALES AND PLACED AT A LOCATION THAT IS APPROVED BY THE TOWN OF SALISBURY.
5. THE CONTRACTOR SHALL SUBMIT A GRANITE BLOCK AND SOIL STOCKPILE LAY DOWN PLAN FOR REVIEW AND APPROVAL BY THE TOWN AND ENGINEER PRIOR TO CONSTRUCTION.
6. C.O.W. SYSTEM SHALL BE INSPECTED DAILY FOR WATER LEAKS OR EROSION AND REPAIRS PROCEDURES SHALL BE IMPLEMENTED ACCORDINGLY.

### PHASE 1 NOTES:

1. CLOSE THE ROADWAY TO VEHICULAR AND PEDESTRIAN TRAFFIC AT THE BRIDGE CROSSING.
2. INSTALL TEMPORARY EROSION CONTROL AROUND PROJECT LIMITS TO PROTECT SMALL POX BROOK FROM WORK ZONE SEDIMENT; INSTALL FLOATING SILT FENCE IN SMALL POX BROOK DOWNSTREAM OF THE PROJECT LIMITS TO TRAP ANY FLOATING DEBRIS/SILT THAT MAY ENTER THE TRIBUTARY.
3. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER WITH 1½" SEWER FORCE MAIN AND SCHEDULE THE RELOCATION BACK INTO THE ROADWAY.
4. INSTALL C.O.W. COFFERDAMS, DE-WATERING PUMPS, AND TEMPORARY STILLING BASIN FOR THE WEST ABUTMENT AREA.
5. PLACE TEMPORARY RIPRAP AT OUTLET FOR DEWATERING DISCHARGE.
6. DE-WATER THE WORK AREA PRIOR TO (AND THROUGHOUT) EXCAVATION TO FACILITATE WORKING ON THE WEST ABUTMENT IN THE DRY CONDITION. ALL DE-WATERING FLOW SHALL PASS THROUGH THE STILLING BASIN TO REMOVE SEDIMENT PRIOR TO DEPOSITING BACK INTO THE BROOK.
7. REMOVE AND STACK APPLICABLE GRANITE CLAPPER STONES FROM WEST BAY. REMOVE AND RESET APPLICABLE WEST GRANITE STONE ABUTMENT STONES. RESET APPLICABLE CLAPPER STONES AT WEST BAY. INSTALL RIPRAP EMBANKMENT AND LOAM & SEED ALL EXPOSED SOILS. INSTALL COMPOST FILTER LOGS ALONG UPLAND SIDES OF STREAMBED.
8. REMOVE THE C.O.W. COFFERDAMS, DEWATERING PUMPS, AND TEMPORARY STILLING BASIN.
9. REDIRECT STREAM FLOW THROUGH THE WEST CULVERT OPENING.

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	DW & MN
DESIGNED BY:	PK
CHECKED BY:	CJ



SUBCONSULTANT

SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION


**GERRISH ROAD BRIDGE OVER SMALL POX BROOK**  
**SALISBURY, MA**  
CONTROL OF WATER (1 OF 2)  
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO. 11417

ISSUE DATE JULY 9, 2025

SHEET NO. 9 OF 15

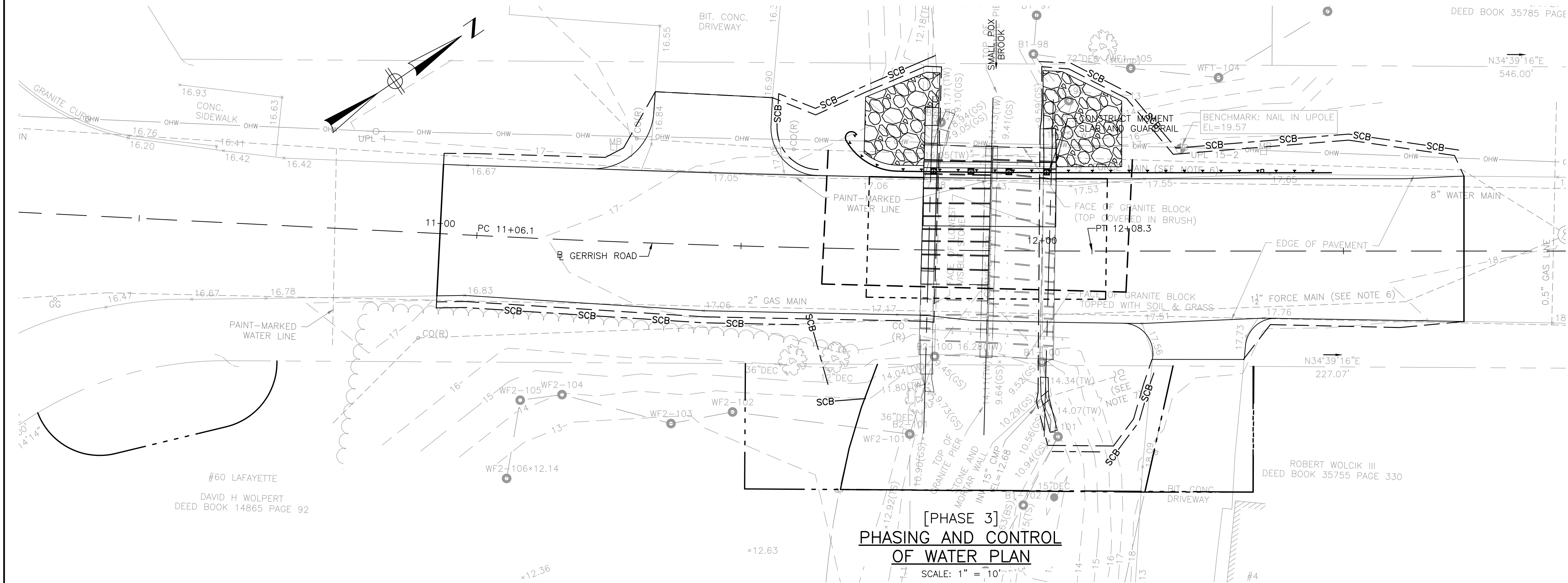
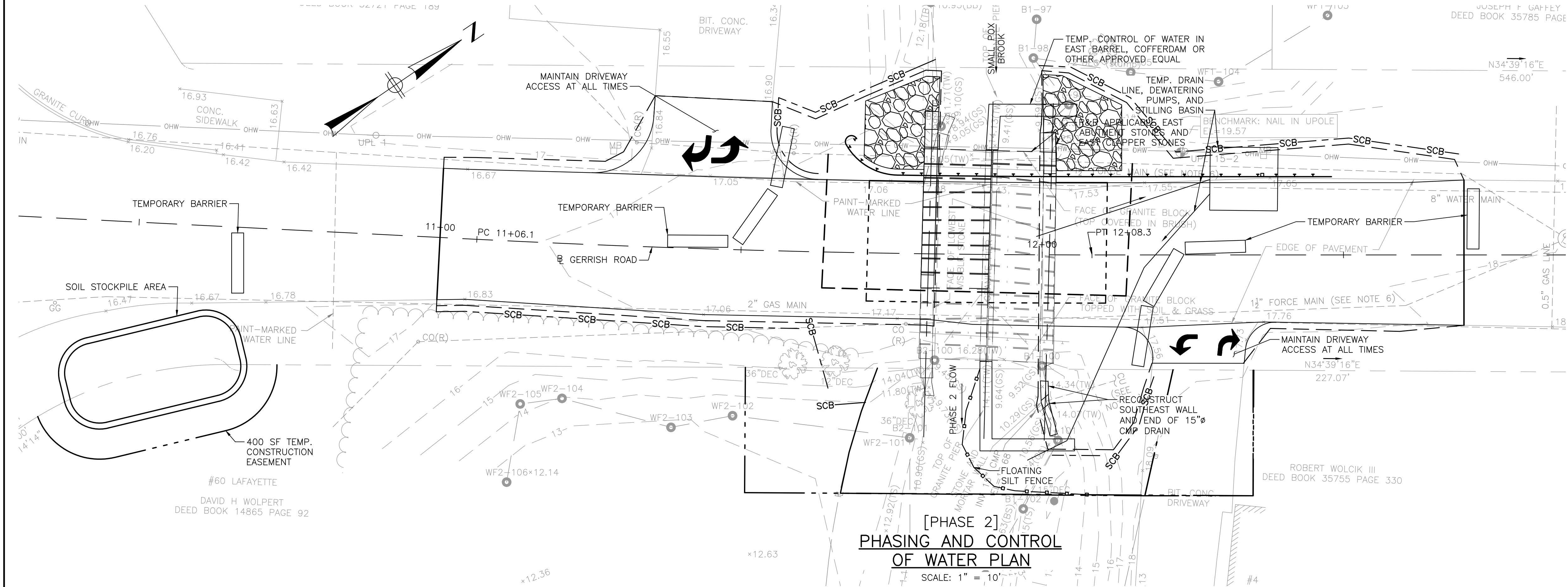
COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS. GEN. LAWS CH 85 S 35

  
DISTRICT BRIDGE ENGINEER

2-11-25  
DATE

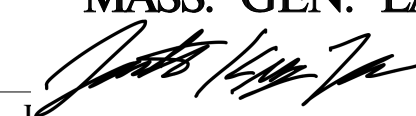


BETA GROUP INC. TEMPLATE (BETA STANDARD TEMPLATE - 10.2024) CIVIL 3D (CIVIL 3D 2024) PLOTSTYLE (BETA STB.BW.STB) USER(DWONG)  
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2/7/2025 11:11 AM



# CONSTRUCTION PHASING & CONTROL OF WATER NOTES

1. SEE NOTES ON SHEET 9.
- PHASE 2 NOTES:
  1. INSPECT EROSION CONTROLS: TEMPORARY EROSION CONTROL AROUND PROJECT LIMITS TO PROTECT SMALL POX BROOK FROM WORK ZONE SEDIMENT; FLOATING SILT FENCE IN SMALL POX BROOK DOWNSTREAM OF THE PROJECT LIMITS TO TRAP ANY FLOATING DEBRIS/SILT THAT MAY ENTER THE BROOK.
  2. INSTALL C.O.W. COFFERDAMS, BYPASS PUMPS, DE-WATERING PUMPS, AND TEMPORARY STILLING BASIN FOR THE EAST ABUTMENT AREA.
  3. DE-WATER THE WORK AREA PRIOR TO (AND THROUGHOUT) EXCAVATION TO FACILITATE INSTALLING THE EAST BREAST-WALL IN THE DRY CONDITION. ALL DE-WATERING FLOW SHALL PASS THROUGH THE STILLING BASIN TO REMOVE SEDIMENT PRIOR TO DEPOSITING BACK INTO THE BROOK.
  4. REMOVE AND STACK APPLICABLE GRANITE CLAPPER STONES FROM EAST BAY. REMOVE AND RESET APPLICABLE EAST ABUTMENT GRANITE STONES. RESET GRANITE CLAPPER STONES AT EAST BAY. INSTALL RIPRAP EMBANKMENT AND LOAM AND SEED WITH EROSION CONTROL BLANKET. INSTALL COMPOST FILTER LOGS ALONG UPLAND SIDES OF STREAMBED. RECONSTRUCT SOUTHEAST WALL AND 15" CMP.
  5. REMOVE THE C.O.W. COFFERDAMS, DE-WATERING PUMPS, AND TEMPORARY STILLING BASIN.
  6. REDIRECT BROOK FLOW THROUGH THE EAST & WEST CULVERT OPENINGS.
- PHASE 3 NOTES:
  1. REMOVE TEMPORARY ROADWAY BARRIER.
  2. INSTALL GUARDRAIL AT NORTH SIDE & CONCRETE MOMENT SLAB, AND ALL REMAINING WORK SHOWN IN PLANS.
  3. CONSTRUCT PAVEMENT TO THE LIMITS SHOWN.
  4. PAINT 4" DYCL.
  5. CONSTRUCT WETLAND REPLICATION, FINAL GRADING, AND LOAM AND SEED.
  6. REMOVE TEMPORARY EROSION CONTROL MEASURES.
  7. OPEN THE ROADWAY TO VEHICULAR AND PEDESTRIAN TRAFFIC AT THE BRIDGE CROSSING.

COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS. GEN. LAWS CH 85 S 35  
  
DATE 2-11-25

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DESIGNED BY: PK
CHECKED BY: CJ



SUBCONSULTANT

SCALE
AS SHOWN
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TITLE
GERRISH ROAD BRIDGE OVER SMALL POX BROOK SALISBURY, MA CONTROL OF WATER (2 OF 2) BRIDGE NO. S-02-010 (BWV)

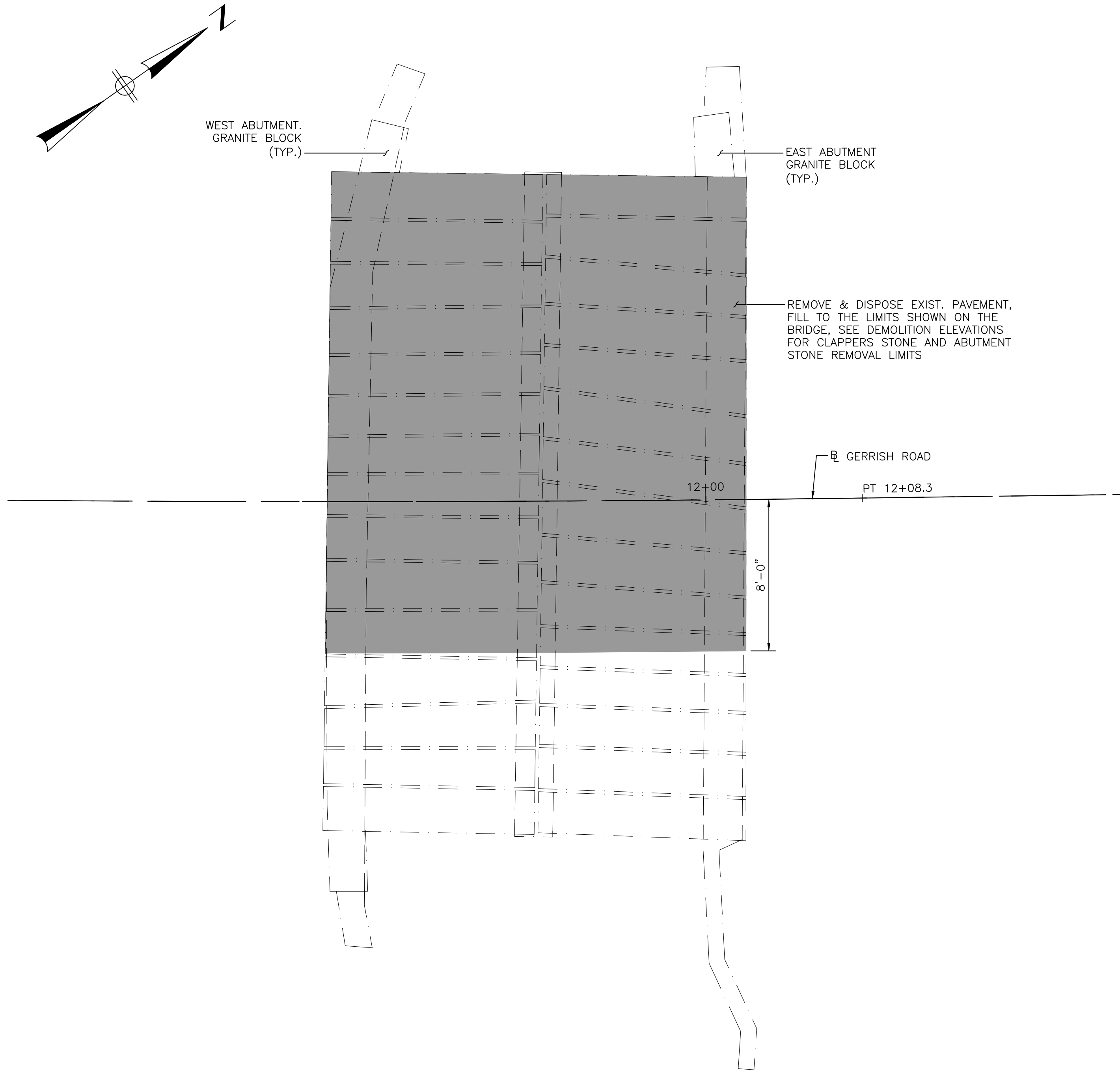
BETA JOB NO.
11417
ISSUE DATE
JULY 9, 2025
SHEET NO.
10 OF 15



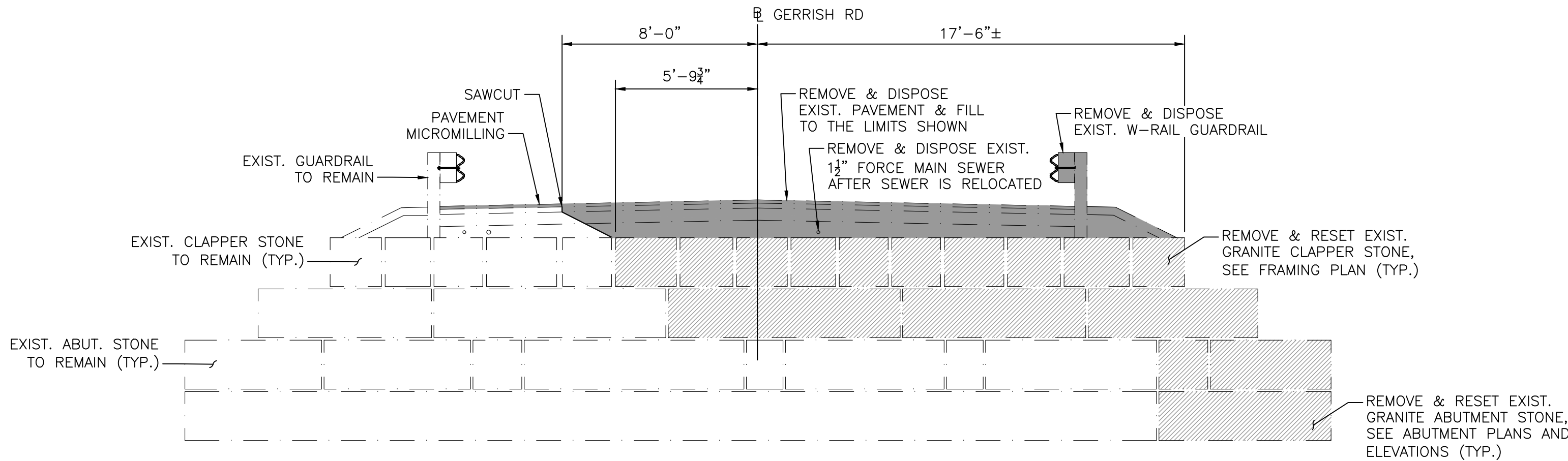
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NOTES:

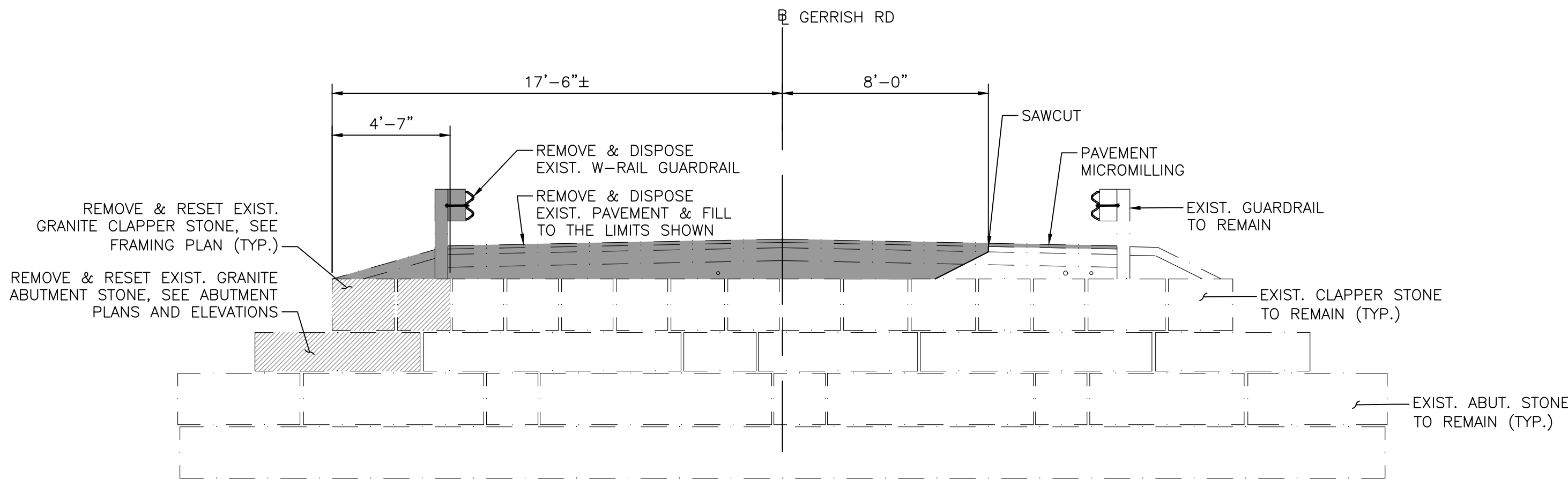
1. ■■■ INDICATES AREA TO BE REMOVED AND DISPOSED.
2. ▨▨▨ INDICATES AREA TO BE REMOVED AND RESET. SEE ABUTMENT PLANS AND ELEVATIONS AS WELL AS FRAMING PLAN FOR DETAILS.
3. ALL STONES TO BE REMOVED SHALL BE LABELED AND STORED IN A WAY TO PREVENT DAMAGE.



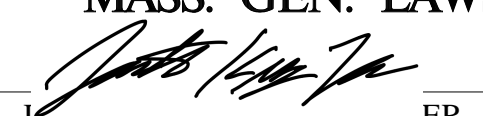
DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



WEST ABUTMENT DEMOLITION ELEVATION  
SCALE: 1/4" = 1'-0"



EAST ABUTMENT DEMOLITION ELEVATION  
SCALE: 1/4" = 1'-0"

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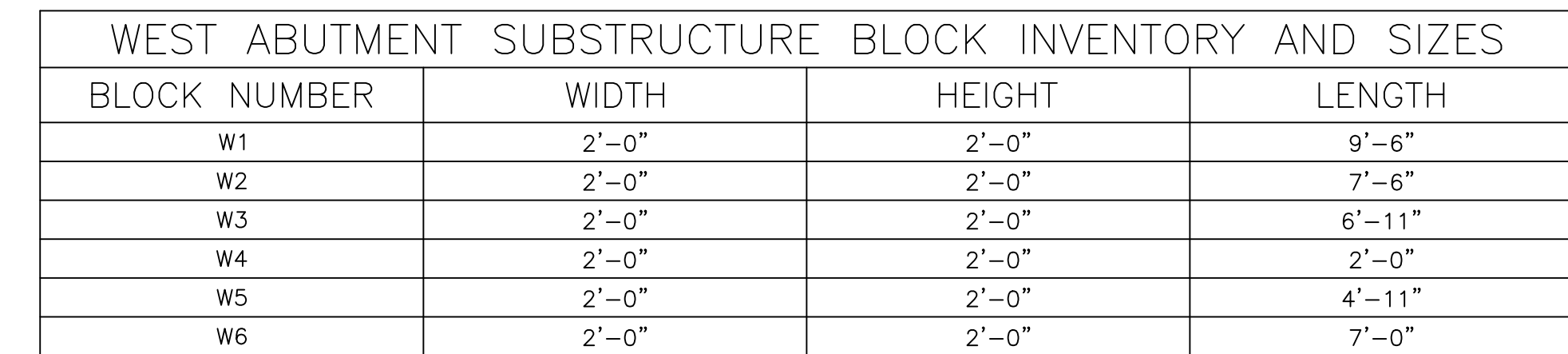
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TITLE
GERRISH ROAD BRIDGE OVER SMALL POX BROOK SALISBURY, MA DEMOLITION
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO.
11417
ISSUE DATE
JULY 9, 2025
SHEET NO.
11 OF 15





1. ALL STONES SHALL BE LABELED PRIOR TO REMOVAL AND PLACED BACK INTO THE SAME LOCATION WHEN REBUILDING THE ABUTMENT.



NOTE: DIMENSIONS SHOWN IN TABLE ARE ESTIMATED. ACTUAL DIMENSIONS MAY VARY.

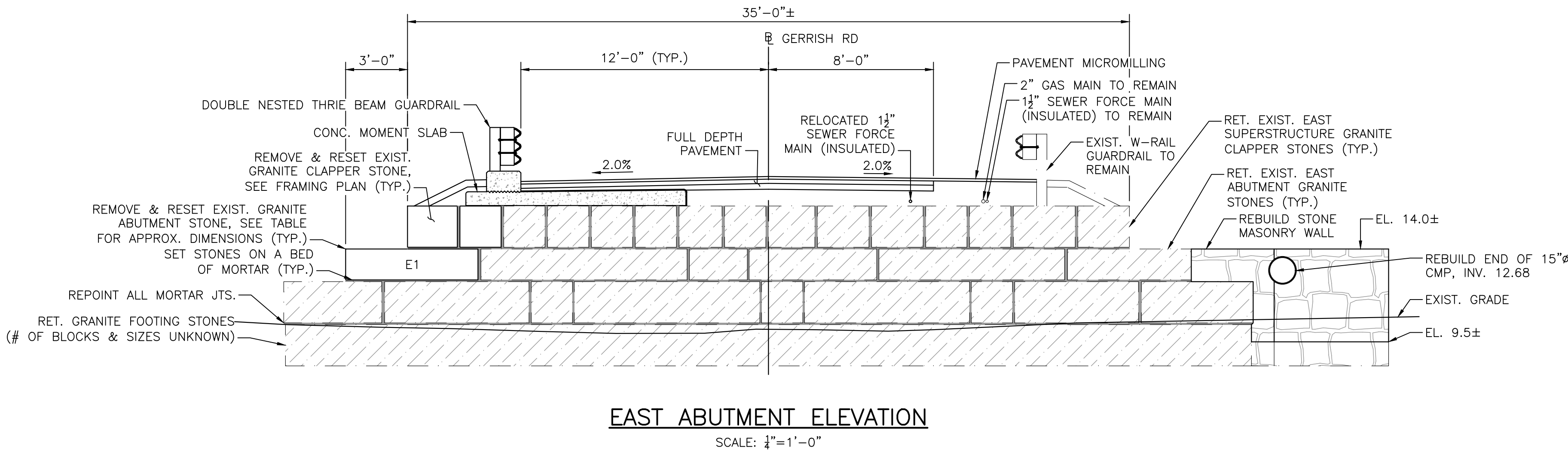
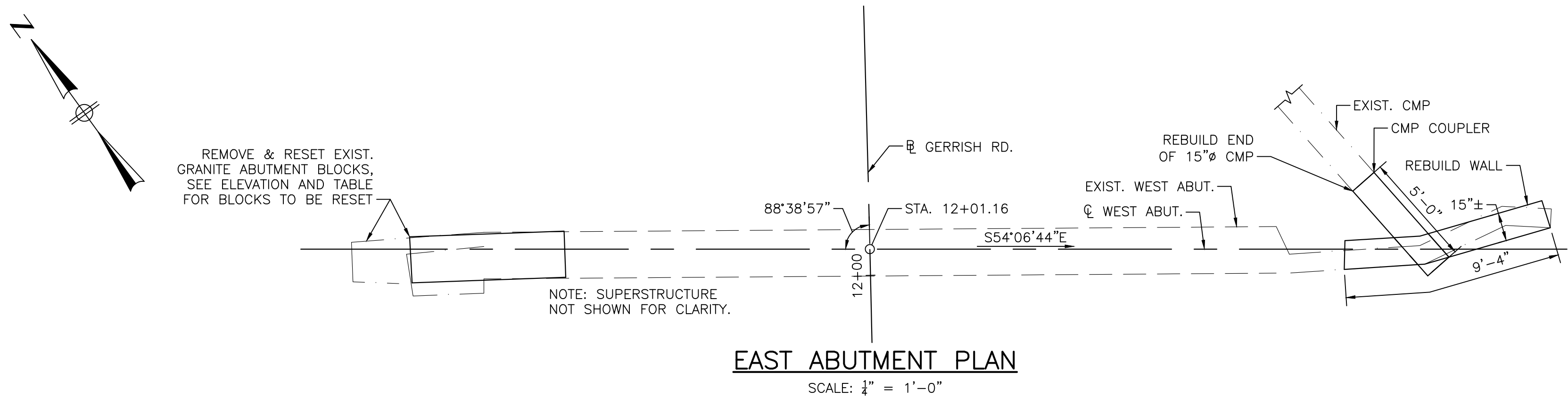
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MASS. GEN. LAWS CH 85 S 35  
*[Signature]*  
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DATE

					DRAWN BY: DW & MN	 	SUBCONSULTANT	SCALE  AS SHOWN	<b>TITLE</b> <b>GERRISH ROAD BRIDGE OVER SMALL POX BROOK</b> <b>SALISBURY, MA</b>  WEST ABUTMENT PLAN AND ELEVATION   BRIDGE NO. S-02-010 (BWV)	BETA JOB NO. 11417
					DESIGNED BY: PK					ISSUE DATE JULY 9, 2025
					CHECKED BY: CJ					SHEET NO. 12 OF 15
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS						




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0:11:40:51:14:17 - SALISBURY, MA - GERRISH ROAD DESIGN/DRAWING FILES/PLANS/SET1/1417\_BRG.DWG  
2/7/2025 11:12 AM

ABUTMENT NOTE:  
1. SEE NOTES ON SHEET 12.



EAST ABUTMENT SUBSTRUCTURE BLOCK INVENTORY AND SIZES			
BLOCK NUMBER	WIDTH	HEIGHT	LENGTH
E1	2'-0"	2'-0"	6'-5"

NOTE: DIMENSIONS SHOWN IN TABLE ARE ESTIMATED. ACTUAL DIMENSIONS MAY VARY.

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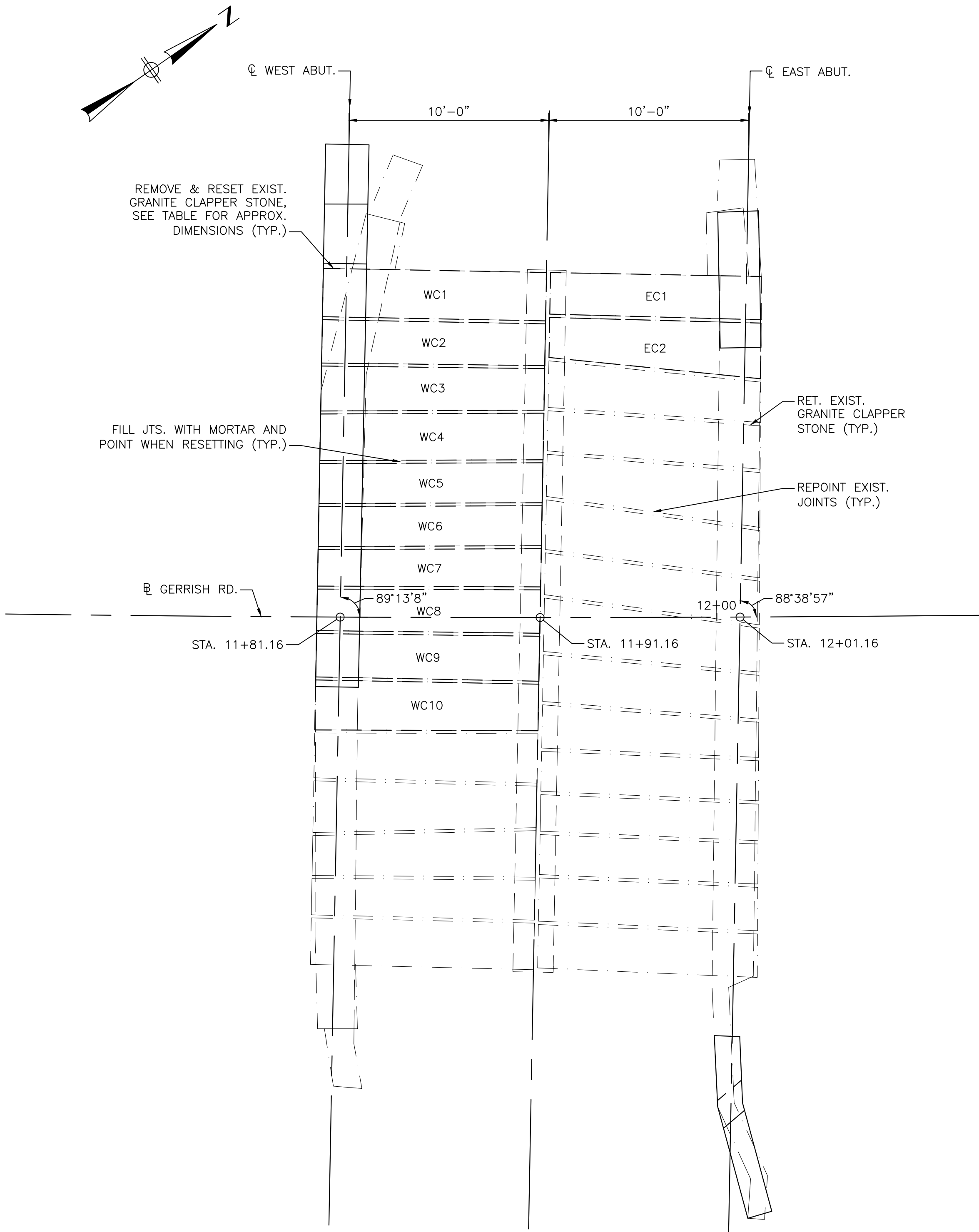
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TITLE  
**GERRISH ROAD BRIDGE OVER SMALL POX BROOK  
SALISBURY, MA**  
EAST ABUTMENT PLAN AND ELEVATION  
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO. 11417  
ISSUE DATE JULY 9, 2025  
SHEET NO. 13 OF 15

BETA GROUP INC. TEMPLATE (BETA STANDARD TEMPLATE - 10.2024) CIVIL 3D (CIVIL 3D 2024) PLOTSTYLE (BETA STD.BW.STB) USER(DWONG)  
0:11:40:51:14:17 - SALISBURY, MA - GERRISH ROAD DESIGN/DRAWING FILES\PLANS\11417\_BR(6).DWG  
2/7/2025 11:12 AM




FRAMING PLAN  
SCALE: 1/4" = 1'-0"

FRAMING PLAN CLAPPER STONE INVENTORY AND SIZES			
BLOCK NUMBER	WIDTH	HEIGHT	LENGTH
WC1	2'-5"	2'-0"	11'-2"
WC2	2'-2"	2'-0"	11'-2"
WC3	2'-2"	2'-0"	11'-2"
WC4	2'-4"	2'-0"	11'-2"
WC5	2'-0"	2'-0"	11'-2"
WC6	2'-0"	2'-0"	11'-2"
WC7	1'-11"	2'-0"	11'-2"
WC8	2'-2"	2'-0"	11'-2"
WC9	2'-3"	2'-0"	11'-2"
WC10	2'-5"	2'-0"	11'-2"
EC1	2'-2"	2'-0"	10'-7"
EC2	2'-5"	2'-0"	10'-7"

NOTE: DIMENSIONS SHOWN IN TABLE ARE ESTIMATED. ACTUAL DIMENSIONS MAY VARY.

FRAMING PLAN NOTE:  
1. ALL STONES SHALL BE LABELED PRIOR TO REMOVAL AND PLACED BACK INTO THE SAME LOCATION WHEN REBUILDING THE STRUCTURE.

COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
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MASS. GEN. LAWS CH 85 S 35  

  
REGISTERED PROFESSIONAL ENGINEER

2-11-25  
DATE

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CHECKED BY: CJ

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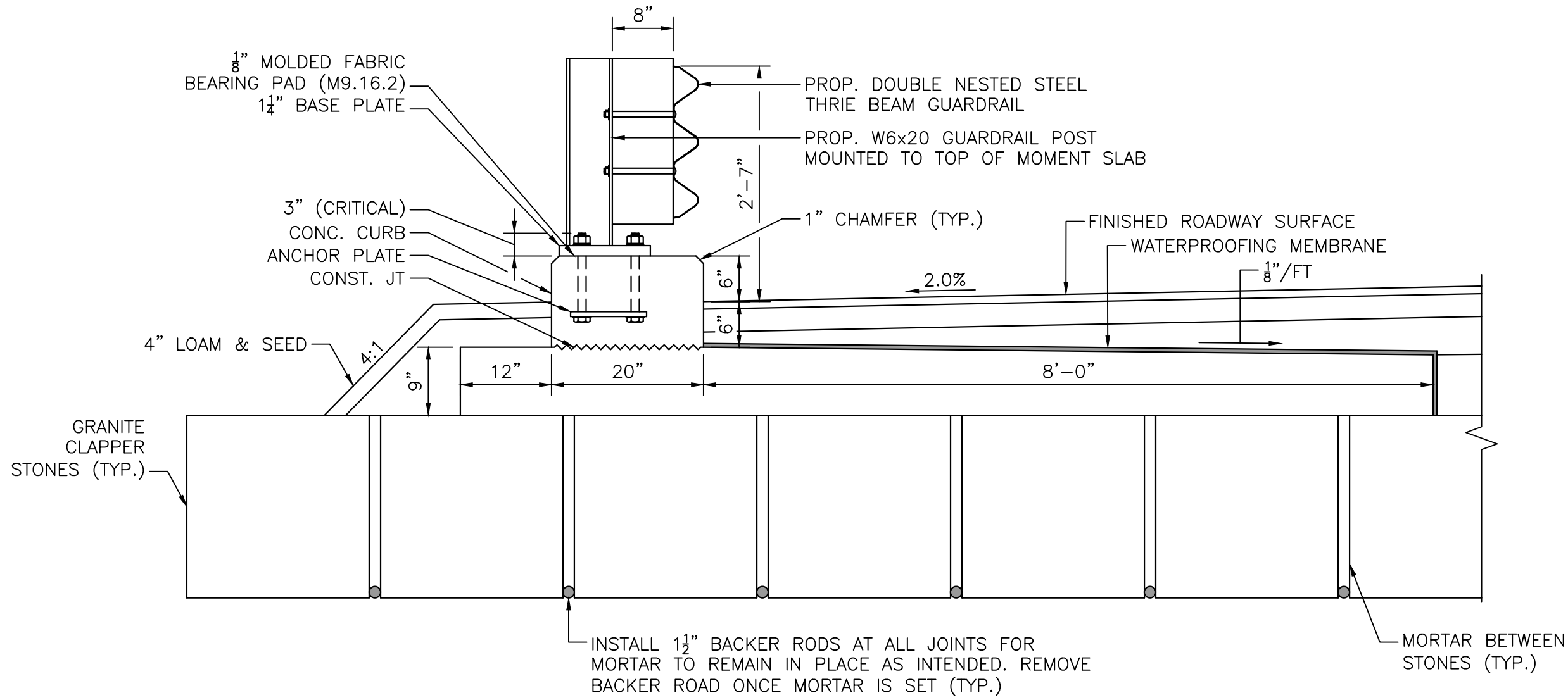
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TITLE  
GERRISH ROAD BRIDGE OVER SMALL POX BROOK  
SALISBURY, MA  
FRAMING PLAN  
BRIDGE NO. S-02-010 (BWV)

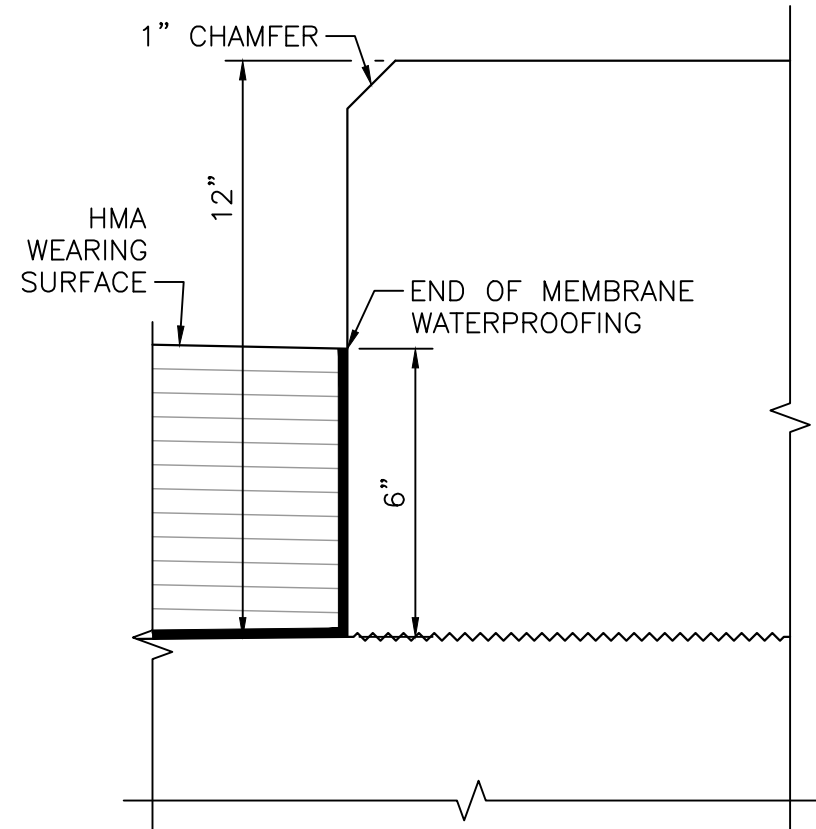
BETA JOB NO.	11417
ISSUE DATE	JULY 9, 2025
SHEET NO.	14 OF 15



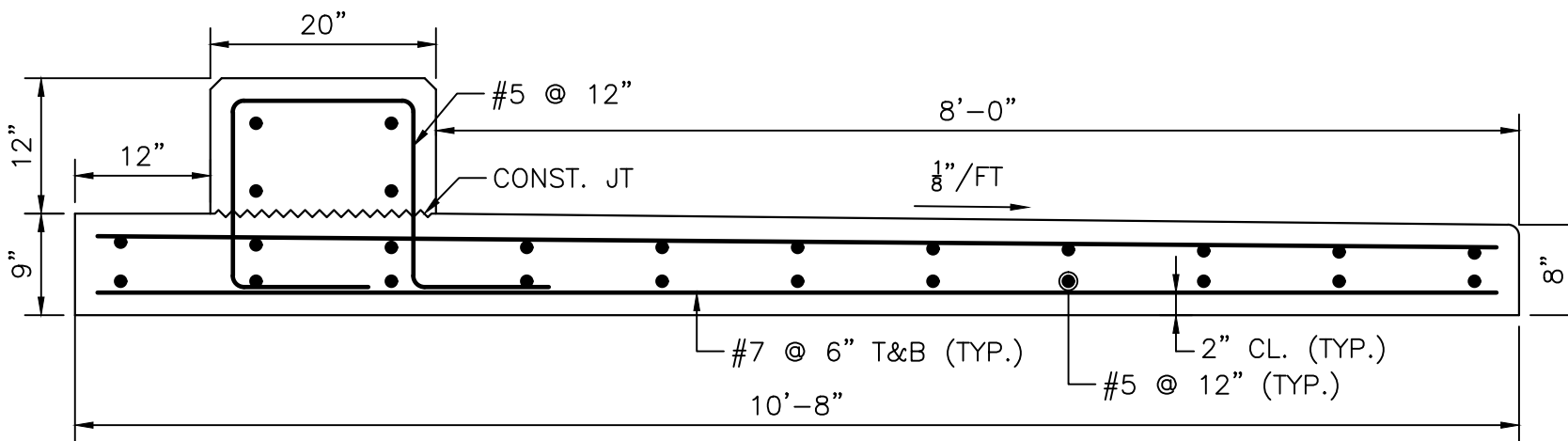
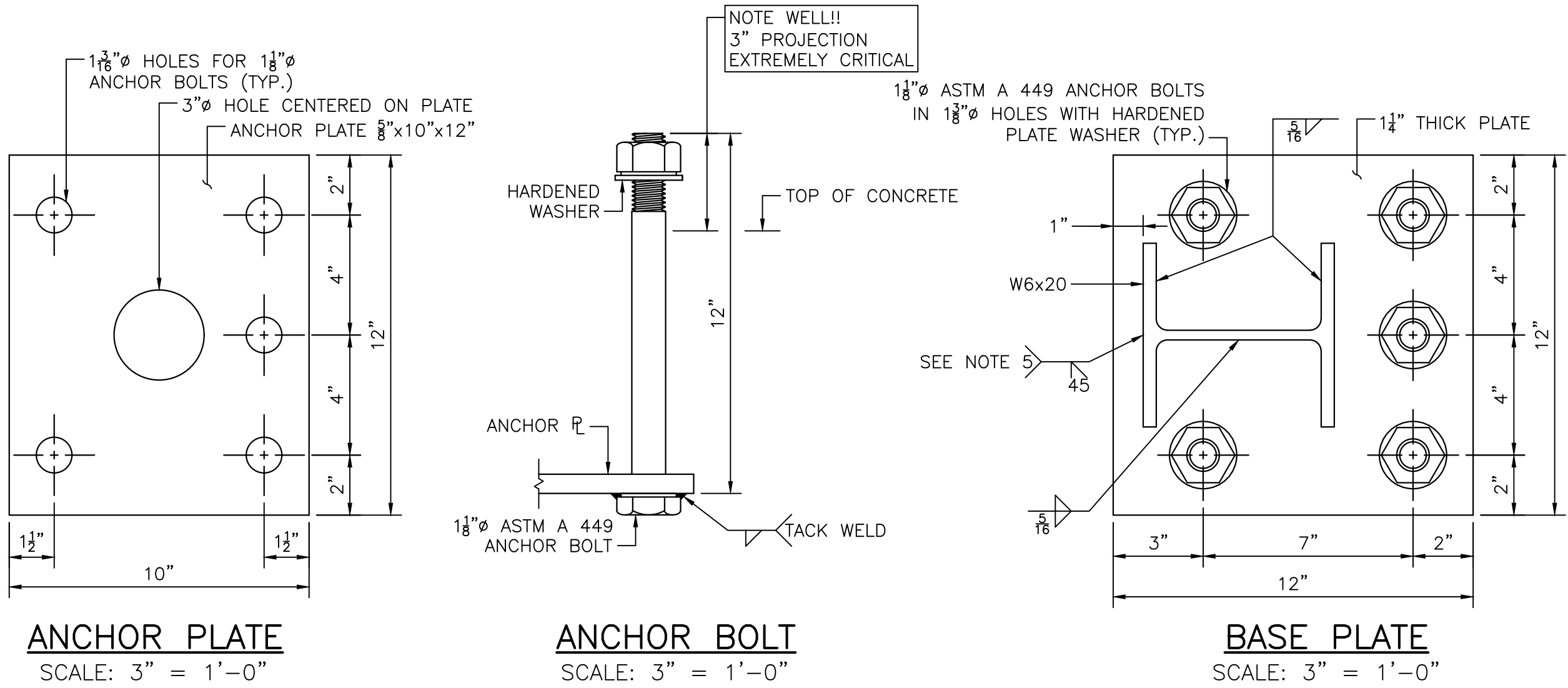
2/7/2025 11:13 AM BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE-1.0.2024) CIVIL 3D (CIVIL\_3D\_2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(DWONG) C:\11140051\1417 - SALISBURY, MA - GERRISH ROAD DESIGN\DRAWING FILES\PLANS\SET1\1417\_BRK(10).DWG



SECTION 1 – GUARDRAIL ATTACHED TO CONCRETE MOMENT SLAB  
SCALE: 3/4" = 1'-0"




FACE OF SAFETY CURB DETAILS  
SCALE: 3" = 1'-0"



MOMENT SLAB REINFORCEMENT  
SCALE: 3/4" = 1'-0"

**GUARDRAIL & CURB NOTES:**

1. ALL STEEL CONNECTING BOLTS AND FASTENERS FOR GUARDRAIL POSTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
2. GUARDRAIL BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270 GRADE 50.
3. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN AFTER STEEL IS IN PLACE.
4. POST FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. WELD SHALL BE BACK-GROUGED ON BACK SIDE EXCEPT AT WEB. WELD IS THE SAME ON BOTH FLANGES.
5. W-BEAM DETAILS, EXCEPT ATTACHMENT TO HEADWALLS, SHALL BE STANDARD RELEVANT TO MASSDOT CONSTRUCTION STANDARDS.
6. CONCRETE SHALL BE 5,000 PSI HP CEMENT CONCRETE.
7. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60 EPOXY COATED.

COMMONWEALTH OF MASSACHUSETTS  
MassDOT, Highway Division  
APPROVED UNDER PROVISIONS OF  
MASS. GEN. LAWS CH 85 S 35  
 2-11-25  
REGISTERED PROFESSIONAL ENGINEER DATE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	

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TITLE  
**GERRISH ROAD BRIDGE OVER SMALL POX BROOK  
SALISBURY, MA  
DETAILS**  
BRIDGE NO. S-02-010 (BWV)

BETA JOB NO. 11417  
ISSUE DATE JULY 9, 2025  
SHEET NO. 15 OF 15