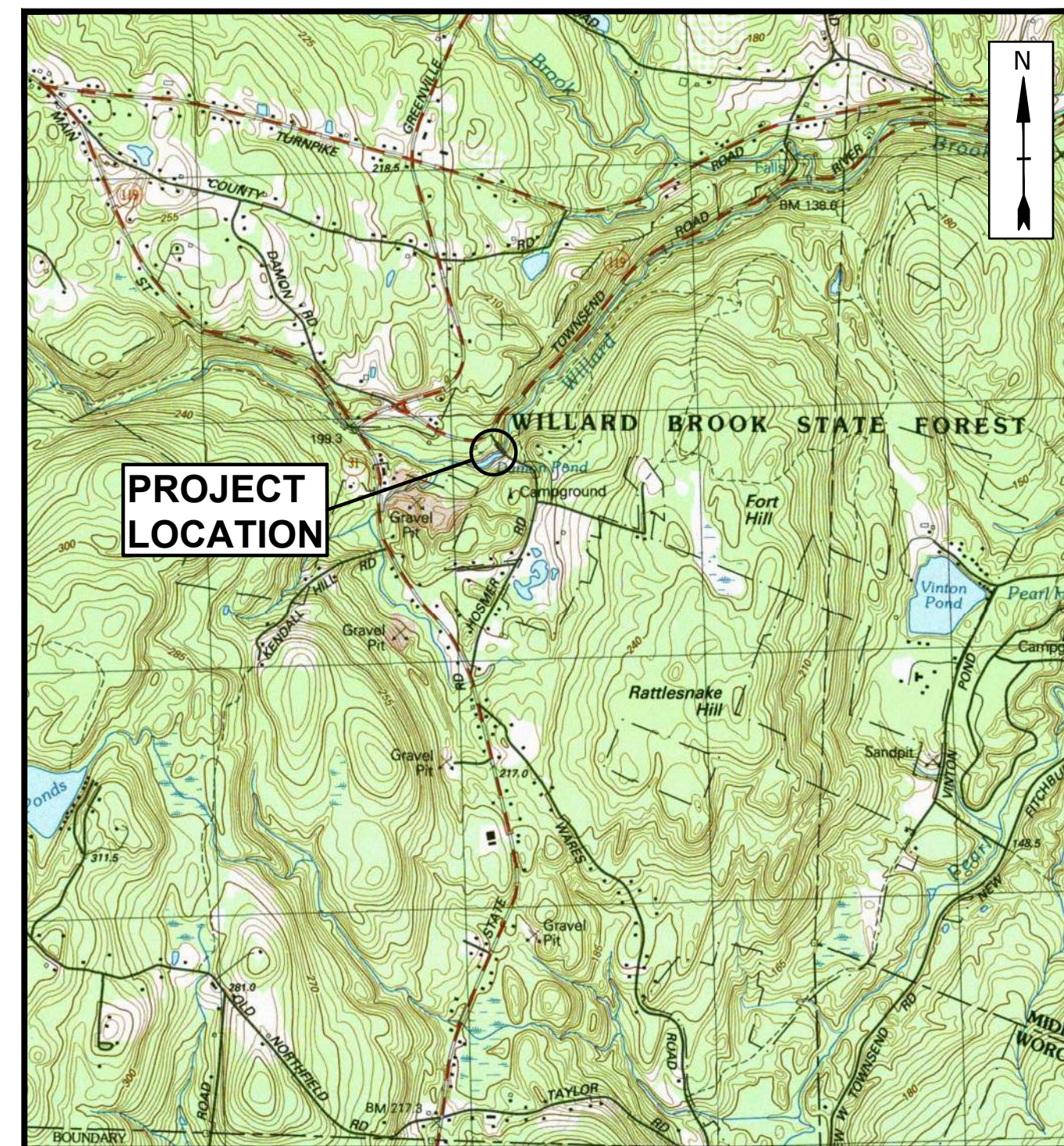


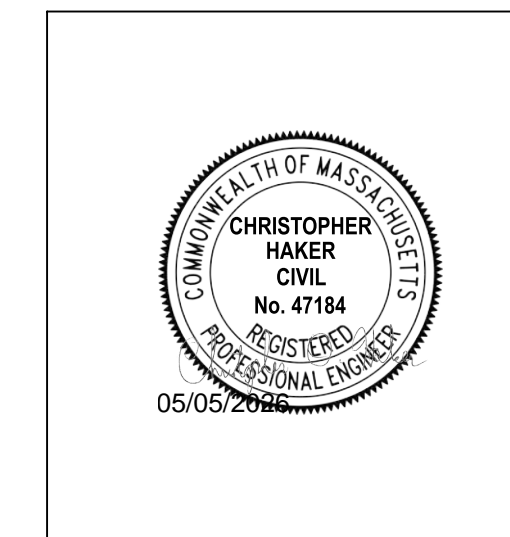
MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DAMON POND DAM REPAIRS AND AREA IMPROVEMENTS WILLARD BROOK STATE FOREST ASHBY, MASSACHUSETTS APRIL 2026

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
CIVIL		
3	C-101	EXISTING CONDITIONS PLAN
4	C-102	PROPOSED SITE PLAN
5	C-103	DETAILS - 1
6	C-104	EROSION AND SEDIMENT CONTROL DETAILS
7	C-105	SEDIMENT HAUL ROUTE AND DISPOSAL LOCATION SITE PLAN
8	C-106	DRAINAGE DETAILS
9	C-601	TRAFFIC CONTROL PLAN
STRUCTURAL		
10	S-001	STRUCTURAL NOTES
11	S-002	CONSTRUCTION DETAIL
12	S-101	REPAIR AND PHOTO LOCATION PLAN
13	S-501	DEMOLITION DETAILS (1 OF 2)
14	S-502	DEMOLITION DETAILS (2 OF 2)
15	S-503	REPAIR DETAILS (1 OF 3)
16	S-504	REPAIR DETAILS (2 OF 3)
17	S-505	REPAIR DETAILS (3 OF 3)
18	S-506	TRASH RACK DETAILS

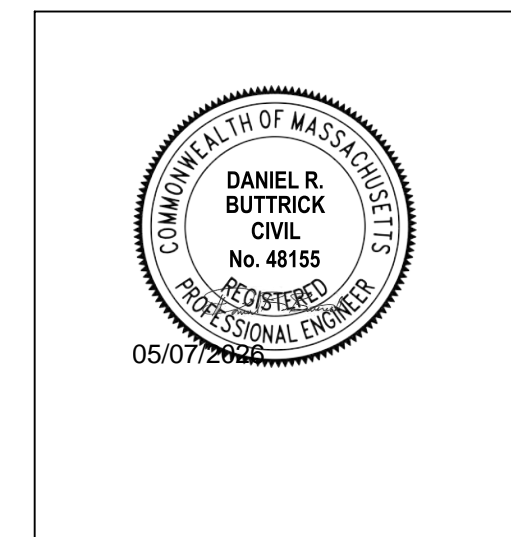


LOCATION MAP
1:24000

PREPARED BY:
Tighe & Bond



CHRISTOPHER D. HAKER, PE



DANIEL R. BUTTRICK, PE

PREPARED FOR:
MASSACHUSETTS DEPARTMENT OF
CONSERVATION AND RECREATION
OFFICE OF DAM Safety
10 Park Plaza, Suite 6620
Boston, MA 02116

COMPLETE SET 18 SHEETS



Last Saved: 3/6/2026 2:06:32 PM By: LPT
 Plotted On: Mar 09 2026 3:21 PM By: LPT
 Tighe & Bond: J:\M0736-Task82A-DCR Engineering Services\MSA\82 - Damon Pond Dam\82A - Design Permitting and Construction\Drawings\AutoCAD\Sheets\M0736-Task82A-ExisPlan.dwg

Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	M736/82A	
DATE:	4/2026	
FILE:	M0736-Task82A-ExisPlan.dwg	
DRAWN BY:	LPT,BL	
CHECKED:	CDH,DRB	
APPROVED:	CDH	

EXISTING CONDITIONS PLAN

SCALE: 1"=20'

Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

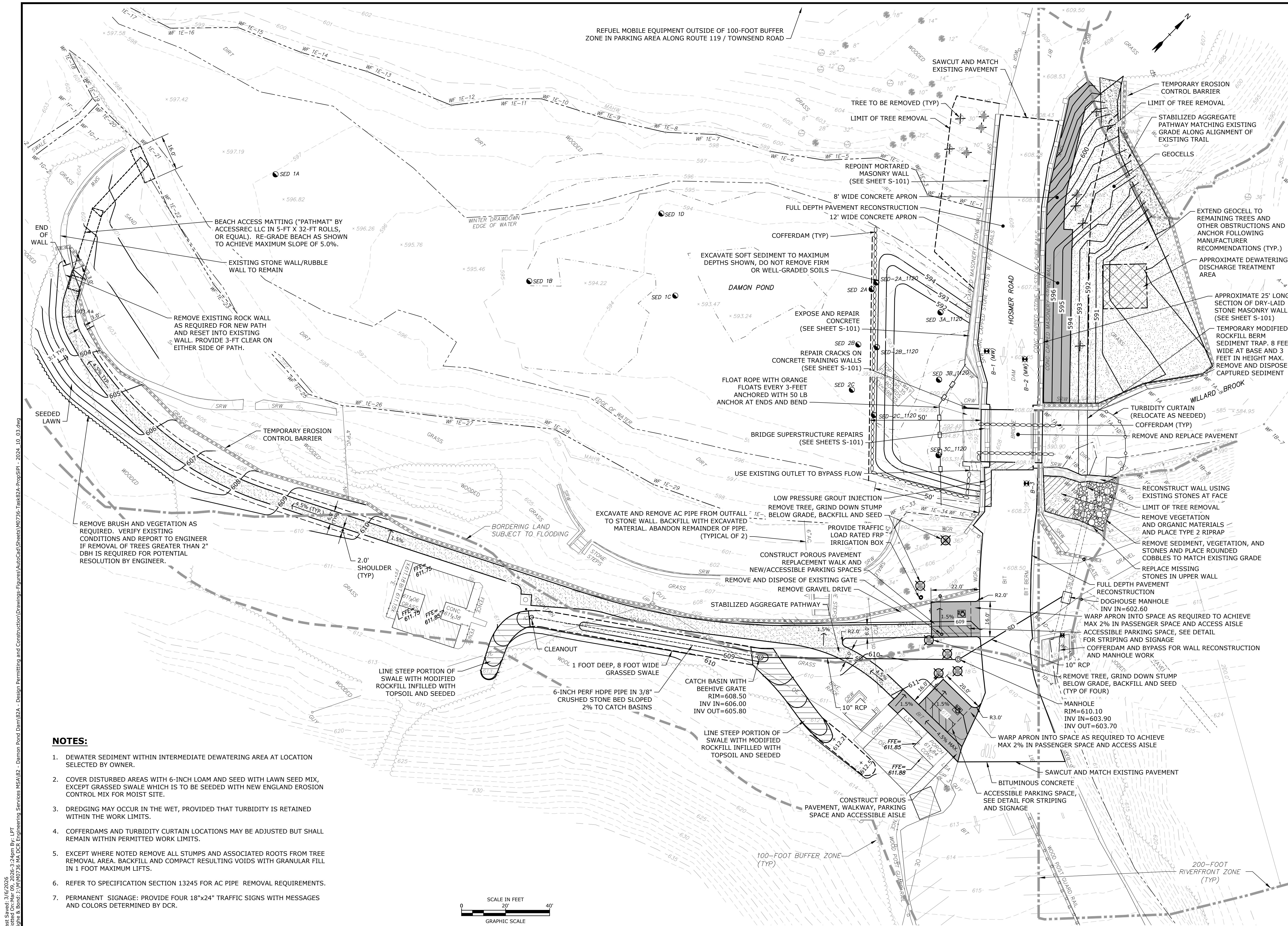
Ashby, Massachusetts

LAA MARK	2024/10/03	Refueling area update
DATE	4/2026	DESCRIPTION
PROJECT NO:	M736/82A	
FILE:	M0736-Task82A-PropSIPI - 2024_10_03.dwg	
DRAWN BY:	LPT, BL	
CHECKED:	CDH, DRB, PP	
APPROVED:	CDH	

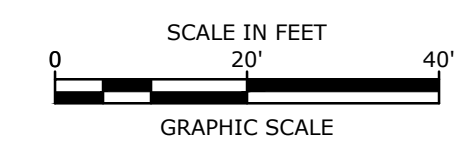
PROPOSED SITE PLAN

SCALE: 1"=20'

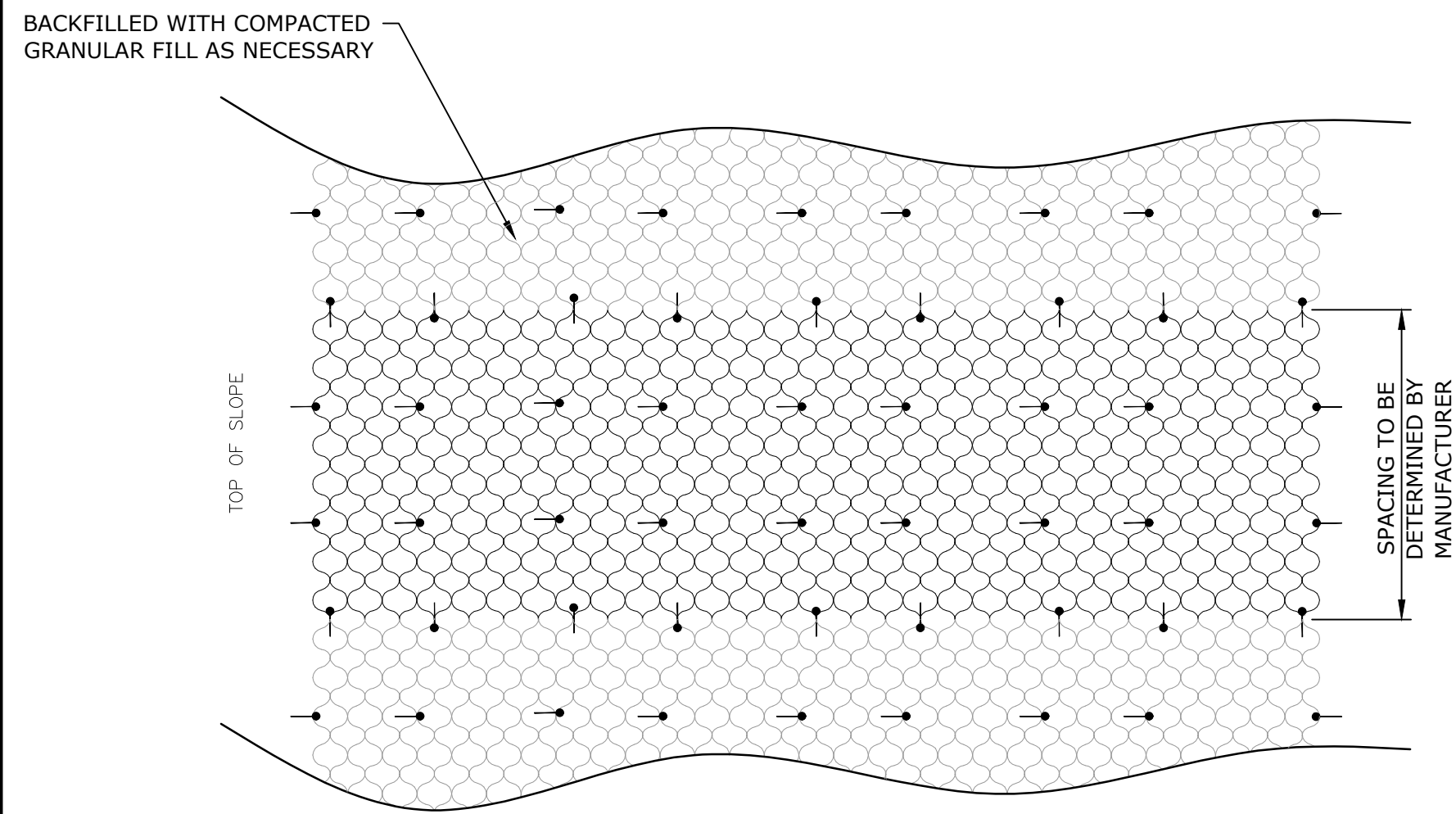
C-102
 SHEET 4 OF 18



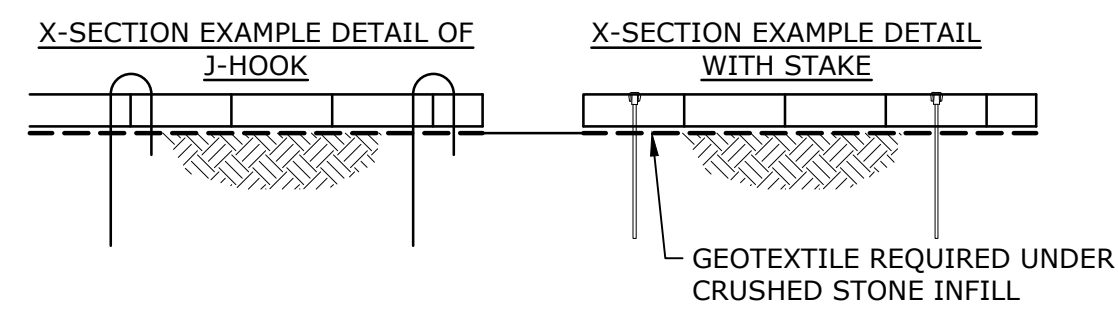
- NOTES:**
1. DEWATER SEDIMENT WITHIN INTERMEDIATE DEWATERING AREA AT LOCATION SELECTED BY OWNER.
 2. COVER DISTURBED AREAS WITH 6-INCH LOAM AND SEED WITH LAWN SEED MIX, EXCEPT GRASSED SWALE WHICH IS TO BE SEEDED WITH NEW ENGLAND EROSION CONTROL MIX FOR MOIST SITE.
 3. DREDGING MAY OCCUR IN THE WET, PROVIDED THAT TURBIDITY IS RETAINED WITHIN THE WORK LIMITS.
 4. COFFERDAMS AND TURBIDITY CURTAIN LOCATIONS MAY BE ADJUSTED BUT SHALL REMAIN WITHIN PERMITTED WORK LIMITS.
 5. EXCEPT WHERE NOTED REMOVE ALL STUMPS AND ASSOCIATED ROOTS FROM TREE REMOVAL AREA. BACKFILL AND COMPACT RESULTING VOIDS WITH GRANULAR FILL IN 1 FOOT MAXIMUM LIFTS.
 6. REFER TO SPECIFICATION SECTION 13245 FOR AC PIPE REMOVAL REQUIREMENTS.
 7. PERMANENT SIGNAGE: PROVIDE FOUR 18"x24" TRAFFIC SIGNS WITH MESSAGES AND COLORS DETERMINED BY DCR.



Last Saved: 3/16/2026
 Plotted On: Mar 09, 2026 - 3:24pm
 By: LPT
 Tighe & Bond: J:\M0736-Task82A-PropSIPI - 2024_10_03.dwg
 Design: Permitting and Construction Drawings - Figures AutoCAD Sheets M0736-Task82A-PropSIPI - 2024_10_03.dwg

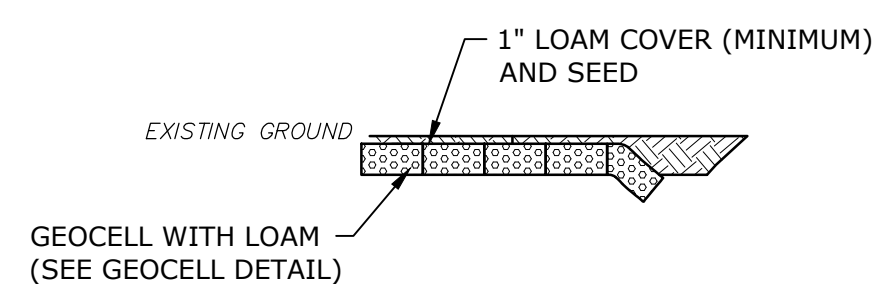


LEGEND
↑ "J" HOOKS OR STAKES

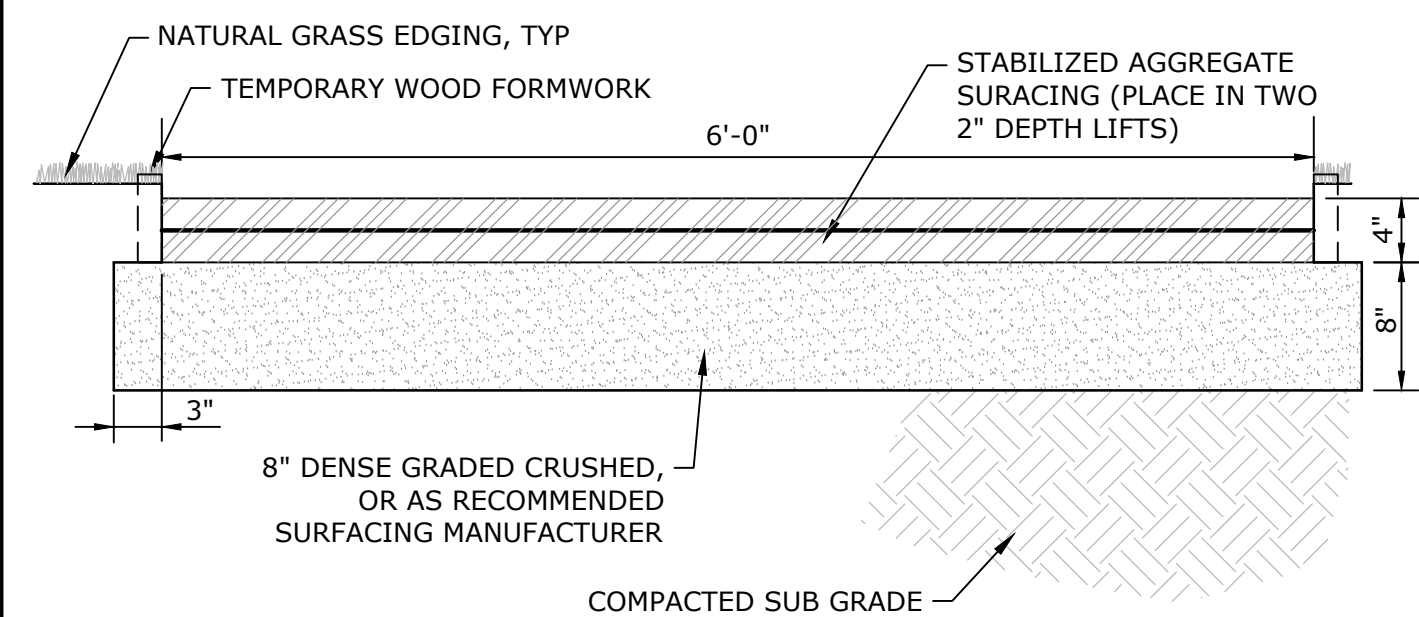


- NOTES:**
1. APPROXIMATE STAKING PATTERN SHOWN. FINAL STAKING PATTERN SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 2. J-HOOK OR STAKE SIZE AND EMBEDMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 3. PROVIDE 4-INCH GEOCELL DESIGNED FOR 1' OF OVERTOPPING.

GEOCELL STAKE PATTERN
NO SCALE

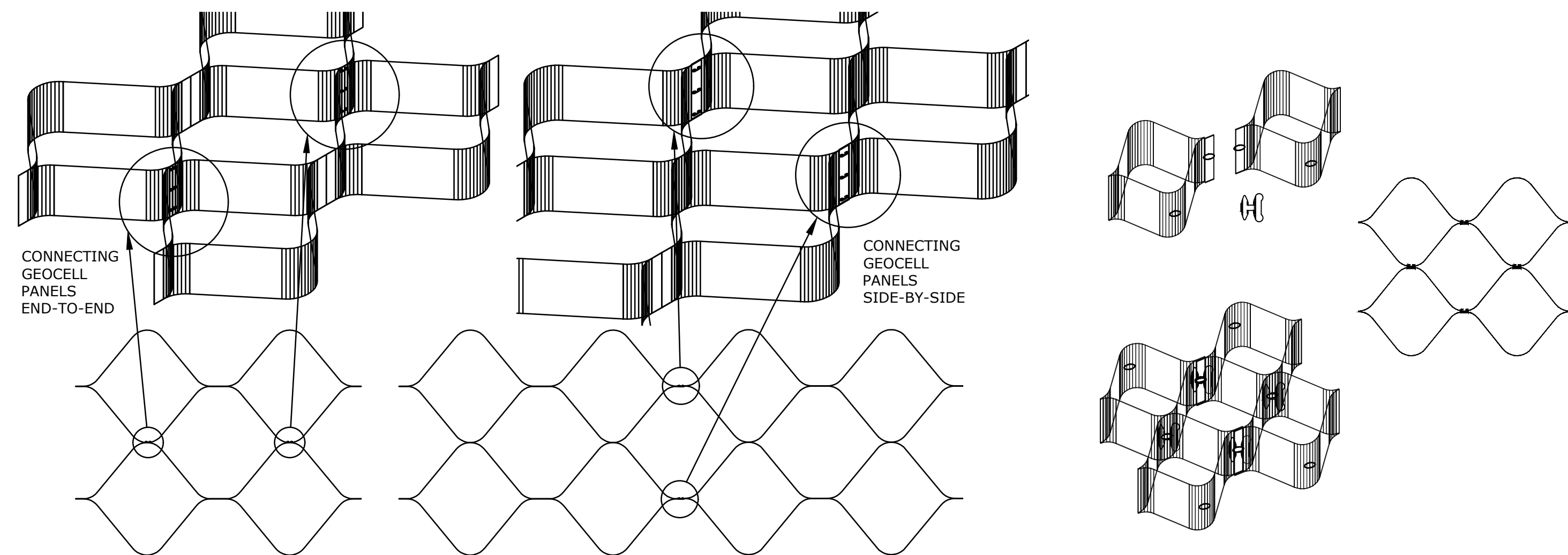


TYPICAL GEOCELL WITH LOAM DETAIL
NO SCALE



- NOTES:**
1. ORGANIC-LOCK PATHWAY AGGREGATE MUST ALWAYS BE PRE-WET FOR INSTALLATION IN HIGH SLOPE AREAS.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
 4. DO NOT SCALE DRAWINGS.
 5. THIS DETAIL IS FOR INFORMATION PURPOSES ONLY. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT, BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT: www.CADdetails.com/info REFERENCE NUMBER 2643-001A
 7. WHERE STABILIZED AGGREGATE PATHWAY IS INSTALLED THROUGH GEOCELL, PROVIDE 1" TOPPING LAYER TO COMPLETELY COVER GEOCELL.

ORGANIC LOCK PAVING STABILIZED AGGREGATE SURACING
NO SCALE



TYPICAL GEOCELL PANEL STAPLING DETAILS
NO SCALE

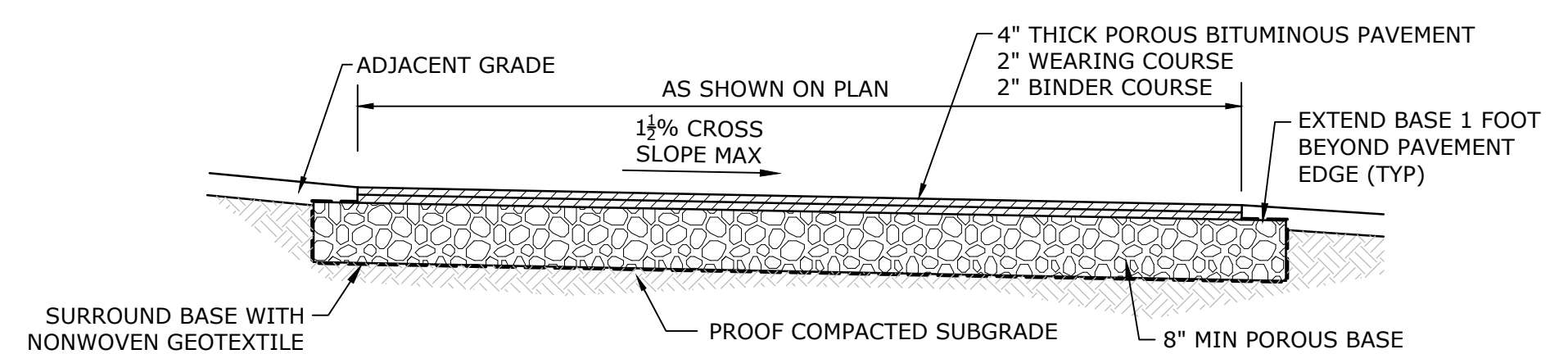
- NOTES:**
1. APPROXIMATE CONNECTION DETAILS SHOWN. FINAL CONNECTION DETAILS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 2. MANUFACTURER CONNECTIONS ARE TYPICALLY COMPOSED OF EITHER STAPLES OR KEYS, NOT BOTH.



VAN ACCESSIBLE **SIGN** **INTERNATIONAL SYMBOL OF ACCESSIBILITY**

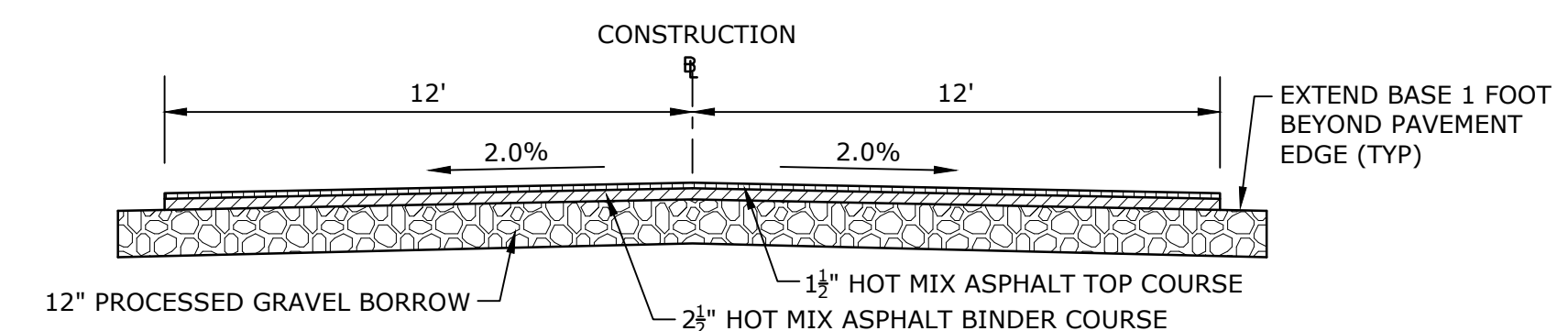
- NOTES:**
1. SIGNS LOCATED AT ALL HANDICAPPED PARKING SPACES ARE: SIGN BACKGROUND - BLUE REFLECTIVE; LETTERS, GRAPHICS & BORDERS - WHITE REFLECTIVE.

ACCESSIBLE PARKING STRIPING DETAILS
NO SCALE



POROUS BITUMINOUS PAVEMENT
NO SCALE

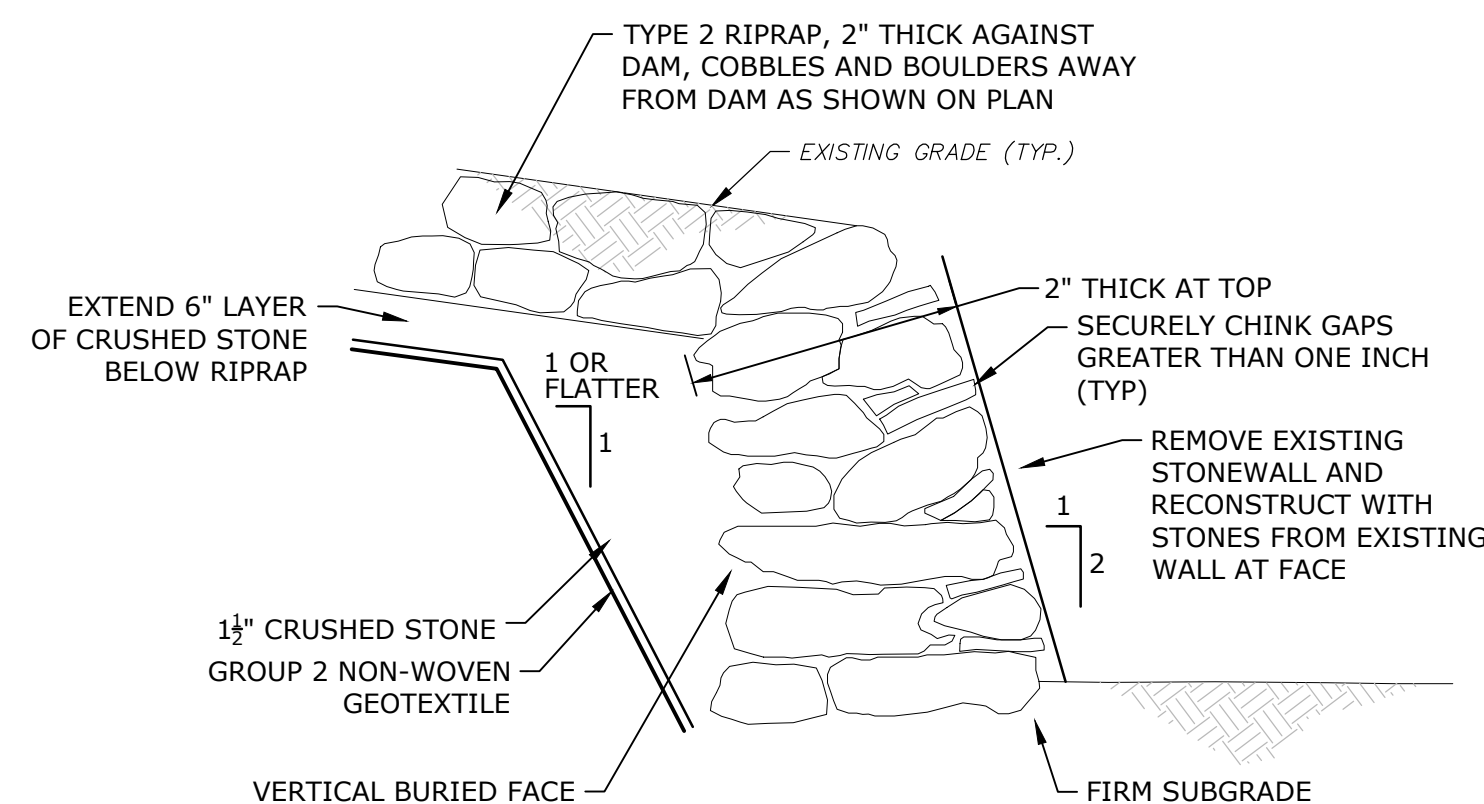
- NOTES:**
1. SEE SITE PLAN FOR POROUS ASPHALT LOCATIONS, LAYOUTS, AND GRADES.
 2. POROUS ASPHALT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS FROM THE UNH STORMWATER CENTER FOR POROUS ASPHALT.



ROADWAY CROSS SECTION
NO SCALE

- NOTES:**
1. ROAD SECTION SHOWN SHALL BE CONSIDERED TYPICAL. FIELD MODIFICATIONS TO MATCH EXISTING CONDITIONS ARE ANTICIPATED.
 2. TACK COAT APPLIED AT 0.05 GAL/SY BETWEEN LIFTS.

* TOLERANCE FOR CONSTRUCTION ±.5%



- NOTES:**
1. SUPPLEMENT STONES WITH OFF-SITE MATERIAL IF NEEDED. SUPPLEMENTAL STONES SHALL BE OF SIMILAR COLOR AND PARENT MATERIAL TO EXISTING WALL.
 2. AT LEAST 75% OF STONES USED SHALL BE LARGER THAN 24 INCHES IN THEIR LARGEST DIMENSION.

MASONRY WALL RECONSTRUCTION
NO SCALE



Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

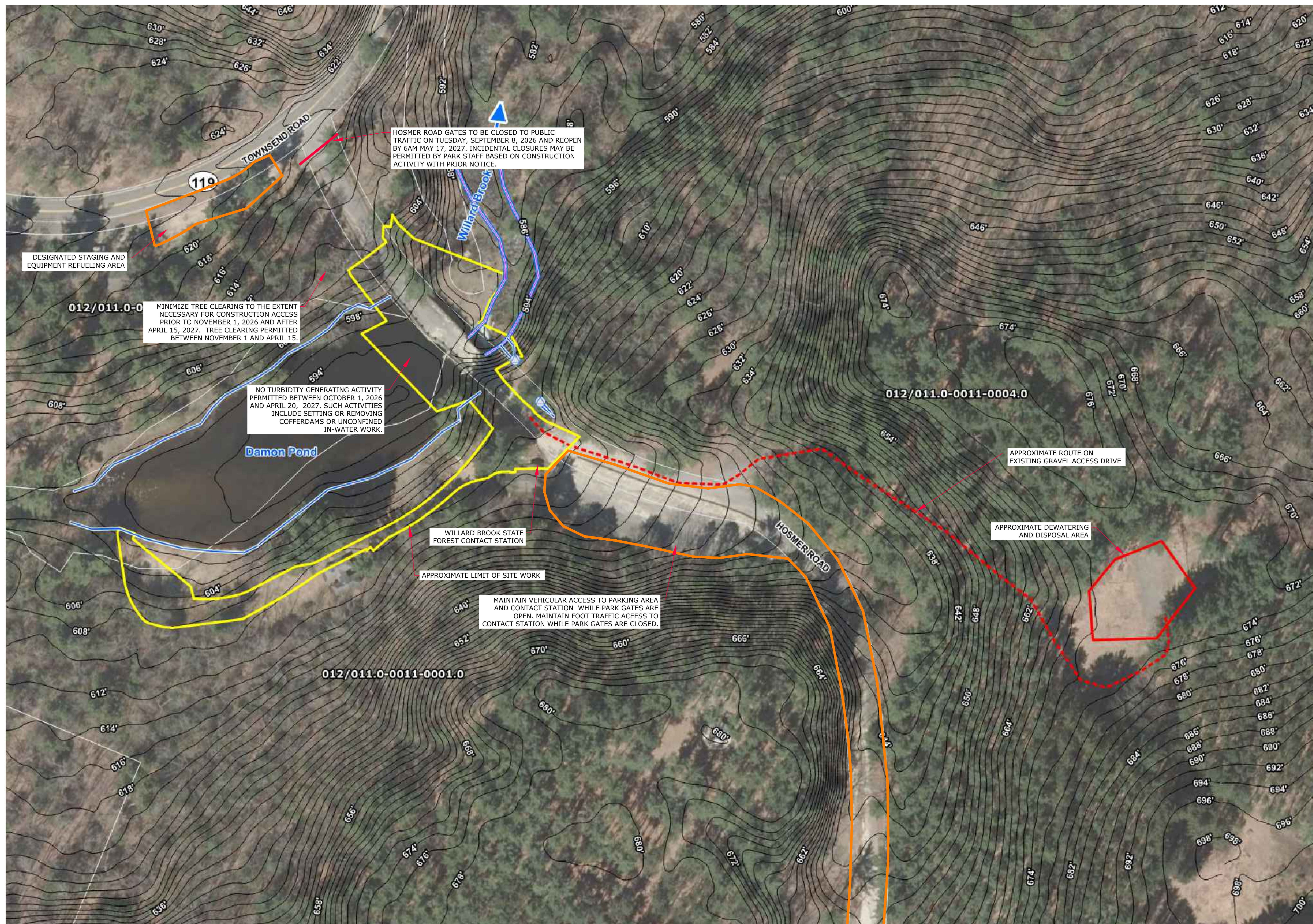
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DATE:	4/2026	
FILE:	M736-Task82A-Details.dwg	
DRAWN BY:	LPT, BL	
CHECKED:	DRB	
APPROVED:	CDH	

DETAILS - 1

SCALE: AS SHOWN

C-103
SHEET 5 OF 18

Last Saved: 3/5/2026 10:23:27 AM By: LPT
 Plotted On: Mar 09, 2026 - 3:27 PM By: LPT
 Tighe & Bond: J:\M\736-Task82A-Details.dwg
 Design: Permitting and Construction Drawings-Engineers\AutoCAD\Sheets\M736-Task82A-Details.dwg



HOSMER ROAD GATES TO BE CLOSED TO PUBLIC TRAFFIC ON TUESDAY, SEPTEMBER 8, 2026 AND REOPEN BY 6AM MAY 17, 2027. INCIDENTAL CLOSURES MAY BE PERMITTED BY PARK STAFF BASED ON CONSTRUCTION ACTIVITY WITH PRIOR NOTICE.

DESIGNATED STAGING AND EQUIPMENT REFUELING AREA

012/011.0-0 MINIMIZE TREE CLEARING TO THE EXTENT NECESSARY FOR CONSTRUCTION ACCESS PRIOR TO NOVEMBER 1, 2026 AND AFTER APRIL 15, 2027. TREE CLEARING PERMITTED BETWEEN NOVEMBER 1 AND APRIL 15.

NO TURBIDITY GENERATING ACTIVITY PERMITTED BETWEEN OCTOBER 1, 2026 AND APRIL 20, 2027. SUCH ACTIVITIES INCLUDE SETTING OR REMOVING COFFERDAMS OR UNCONFINED IN-WATER WORK.

WILLARD BROOK STATE FOREST CONTACT STATION

APPROXIMATE LIMIT OF SITE WORK

MAINTAIN VEHICULAR ACCESS TO PARKING AREA AND CONTACT STATION WHILE PARK GATES ARE OPEN. MAINTAIN FOOT TRAFFIC ACCESS TO CONTACT STATION WHILE PARK GATES ARE CLOSED.

012/011.0-0011-0001.0

012/011.0-0011-0004.0

APPROXIMATE ROUTE ON EXISTING GRAVEL ACCESS DRIVE

APPROXIMATE DEWATERING AND DISPOSAL AREA

Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	M736/82A	
DATE:	4/2026	
FILE:	M736-Task82A-SitePI-GIS.dwg	
DRAWN BY:	LPT, GIS	
CHECKED:	DRB	
APPROVED:	CDH	

SEDIMENT HAUL ROUTE AND DISPOSAL LOCATION SITE PLAN

SCALE: NO SCALE

Last Saved: 3/16/2026
 Plotted On: Mar 09, 2026 - 3:31pm By: LPT
 Tighe & Bond | 100 Main Street | Ashby, MA 01830 | 978-238-1100 | www.tigheandbond.com

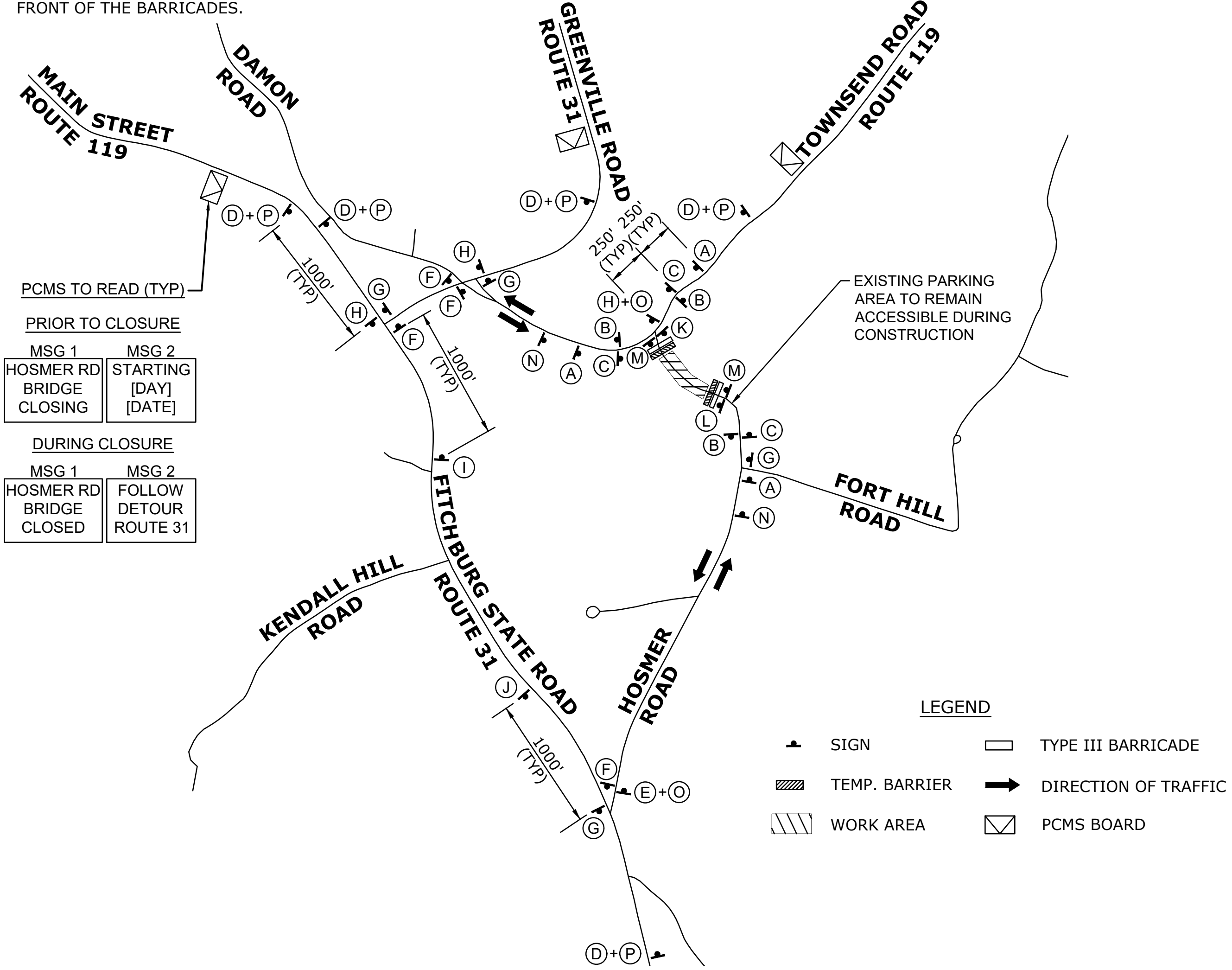
TEMPORARY TRAFFIC CONTROL NOTES

- DETOUR AND ASSOCIATED TEMPORARY TRAFFIC CONTROL SIGNAGE AND MATERIALS ARE ONLY ANTICIPATED IF CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN MEMORIAL DAY AND LABOR DAY.
- ALL TEMPORARY TRAFFIC CONTROL SIGNAGE AND BARRICADES ASSOCIATED WITH THE WORK ZONE SHALL BE KEPT IN PLACE YEAR ROUND. THESE SIGNS INCLUDE A, B, C, E, K, L, AND M.
- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TAPER FORMULA:
 $L = S \times W \text{ FOR SPEED } > \text{ OR } = 45$
 $L = (S \times S \times W) / 60 \text{ FOR SPEED } < 45$
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS 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).
- NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- PCMS MESSAGE BOARDS SHALL BE PLACED AT LEAST 2 WEEKS PRIOR TO ROAD CLOSURE AND CONVEY MESSAGES AS INDICATED IN THE ADVANCED WARNING SIGN PLAN BELOW.
- TEMPORARY BARRIERS AND TYPE III BARRICADES SHALL BE INSTALLED ACROSS THE FULL WIDTH OF THE ROAD AT THE CLOSURE LOCATION. PLACE DRUMS IN FRONT OF THE BARRICADES.

TOWN	ROAD	CASE	DETAIL	DETAIL ISSUE DATE
ASHBY	HOSMER ROAD	CONES & DRUMS	CONES & DRUMS DWG NO. 851.1.1	JAN 2025
ASHBY	HOSMER ROAD	TYPE III BARRICADE	TYPE III BARRICADE DWG NO. 851.2.1	JAN 2025

TEMPORARY CONSTRUCTION SIGN LEGEND											
I.D. NUMBER	SIGN CODE	SIZE OF SIGN (IN)		UNIT AREA IN SQ. FT.	TEXT *	COLOR			NUMBER OF SIGNS REQUIRED	AREA IN SQ. FT.	
		WIDTH	HEIGHT			BACK-GROUND	LEGEND	BORDER			
(A)	W20-1a	36	36	9	ROAD WORK AHEAD	FLUORESCENT ORANGE	BLACK	BLACK	3	27	
(B)	MA-R2-10e	36	48	12	END ROAD WORK DOUBLE FINES END	FLUORESCENT ORANGE WHITE	BLACK	BLACK	3	36	
(C)	MA-R2-10a	48	36	12	WORK ZONES SPEEDING FINES DOUBLED	FLUORESCENT ORANGE	BLACK	BLACK	3	36	
(D)	W20-2	36	36	9	DETOUR AHEAD	FLUORESCENT ORANGE	BLACK	BLACK	5	45	
(E)	W20-3	36	36	9	ROAD CLOSED AHEAD	FLUORESCENT ORANGE	BLACK	BLACK	1	9	
(F)	M4-9R	30	24	5	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	4	20	
(G)	M4-9L	30	24	5	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	4	20	
(H)	M4-9V	30	24	5	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	3	15	
(I)	M4-9aR	30	24	5	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	1	5	
(J)	M4-9aL	30	24	5	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	1	5	
(K)	M4-10R	48	18	6	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	1	6	
(L)	M4-10L	48	18	6	DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	1	6	
(M)	R11-2	48	30	10	ROAD CLOSED	WHITE	BLACK	BLACK	2	20	
(N)	M4-8a	24	18	3	END DETOUR	FLUORESCENT ORANGE	BLACK	BLACK	2	6	
(O)	CUSTOM - 1	60	30	12.5	WILLARD BROOK STATE FOREST DAMON POND PARKING LOT OPEN	WHITE	BLACK	BLACK	2	25	
(P)	W16-8p	48	18	6	HOSMER RD	FLUORESCENT ORANGE	BLACK	BLACK	5	30	
									TOTALS	41	311

* FOR ALL TEMPORARY CONSTRUCTION SIGNS, SEE MUTCD DECEMBER 2023 11TH EDITION, 2024 STANDARD HIGHWAY SIGNS AND SECTION M4.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.



ADVANCED WARNING SIGN PLAN
NOT TO SCALE

Last Saved: 4/6/2026 10:46:33 AM By: AChampane
 Plotted On: Apr 06, 2026 3:31 PM
 File: & Board: E:\Projects\24-114\Drawings\AutoCAD\Drawings\Task82A-TTCP.dwg



Department of Conservation and Recreation

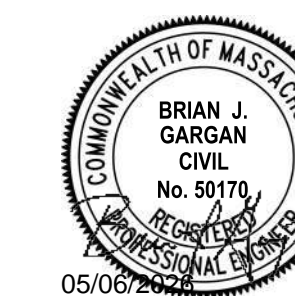
Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

MARK	DATE	DESCRIPTION
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DATE:	4/2026	
FILE:	M736-Task82A-TTCP.dwg	
DRAWN BY:	ARC	
CHECKED:	CDH, DRB, PP	
APPROVED:	CDH	

TEMPORARY TRAFFIC CONTROL PLAN

SCALE: NO SCALE



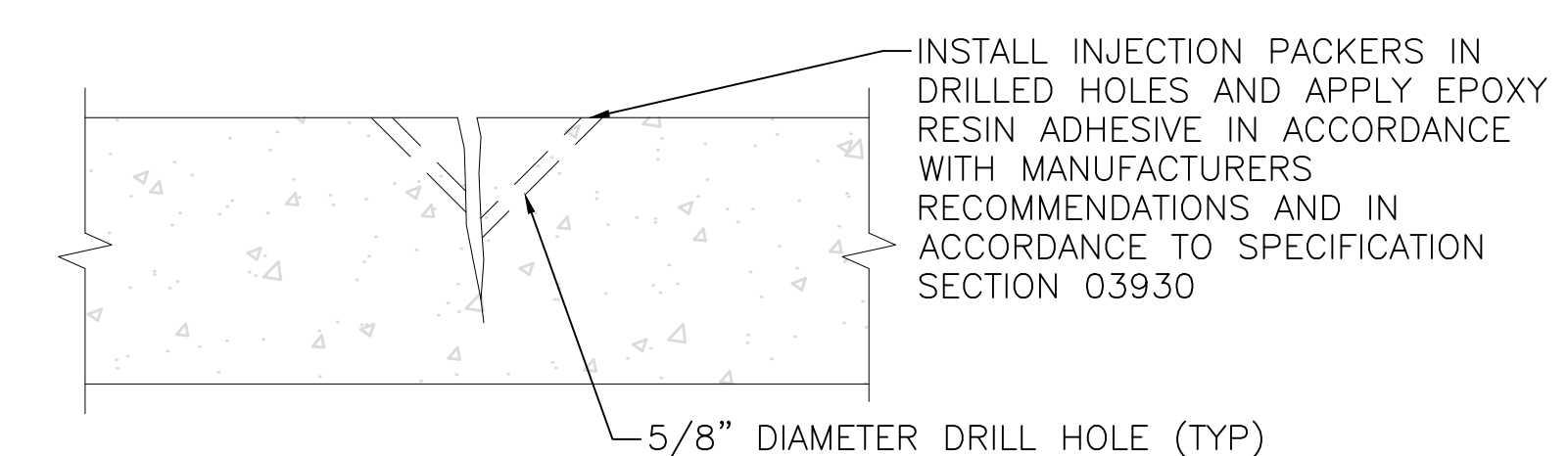
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PROJECT NO:	M736/82A
DATE:	4/2026
FILE:	M0736-Task82A-S-Notes.dwg
DRAWN BY:	JAK
CHECKED:	CDH, DRB
APPROVED:	CDH

CONSTRUCTION DETAILS

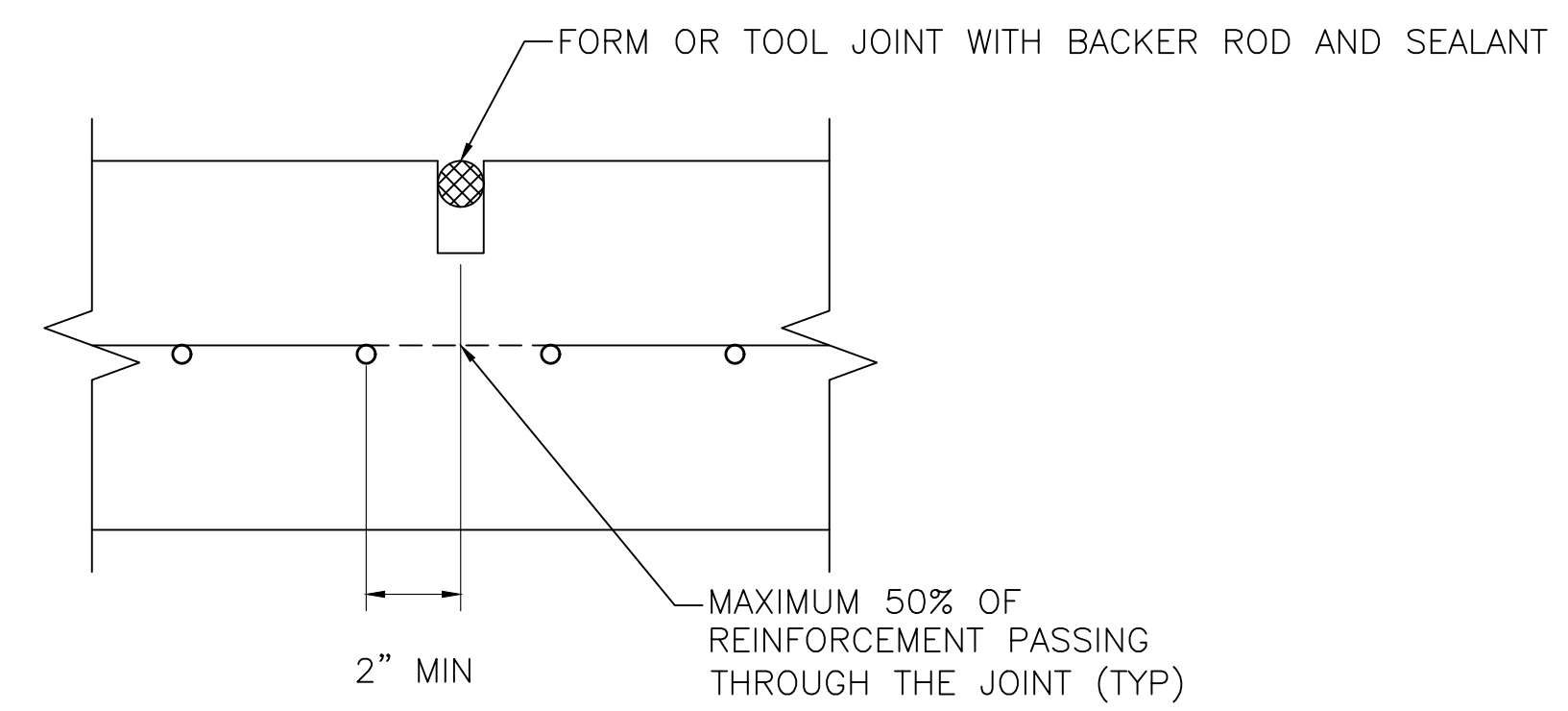
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S-002
SHEET 11 OF 18



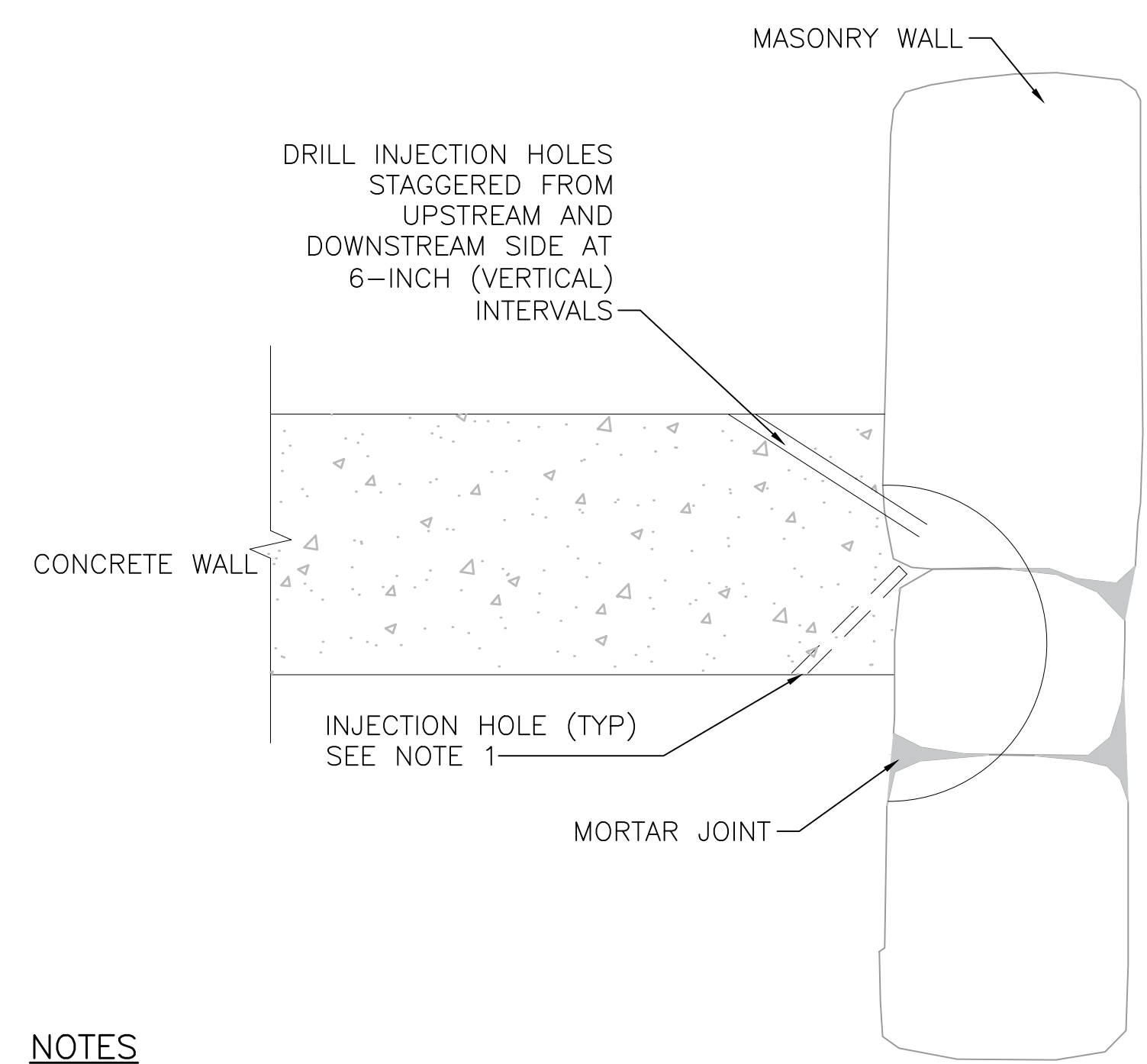
- NOTES**
1. REMOVE ALL ORGANIC MATTER FROM CRACK PRIOR TO INJECTION.
 2. CLEAN EXCESS EPOXY OFF CONCRETE SURFACE AND REMOVE PINS AFTER REPAIR IS COMPLETE.
 3. LEAVE REPAIR SURFACES FLUSH WITH EXISTING CONCRETE.

CRACK REPAIR DETAIL



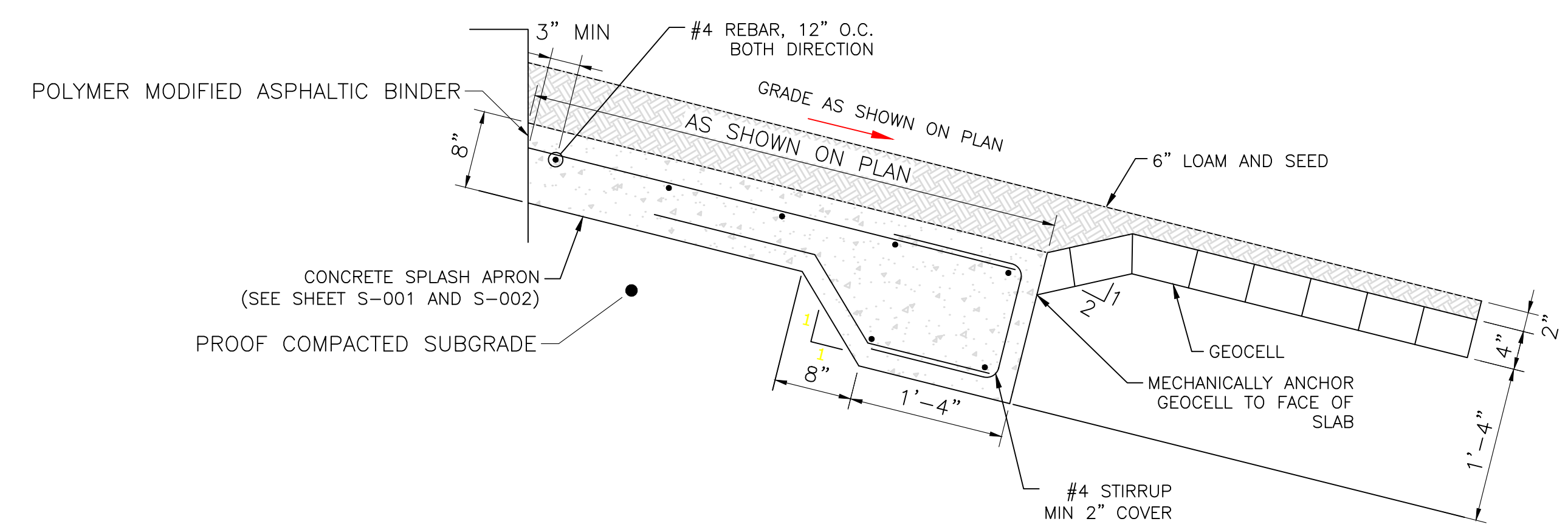
CRACK INDUCING JOINT DETAIL

- NOTES**
1. JOINT SHALL EXTEND DOWN ONE FOURTH THE DEPTH OF THE SLAB
 2. JOINT SHALL NOT GO THROUGH REINFORCEMENT



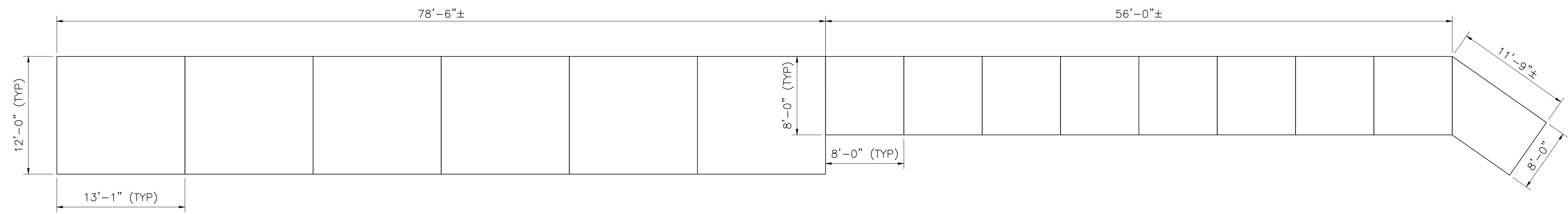
- NOTES**
1. INSTALL INJECTION PACKERS IN DRILLED HOLES AND APPLY LIQUID CHEMICAL GROUT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATERTIGHT REPAIR. FOLLOWING INJECTION, REMOVE EXCESS GROUT UNTIL FLUSH WITH EXISTING SURFACE. RUB SMOOTH. SEE 03930 FOR FURTHER REQUIREMENTS.
 2. LOCATION SHOWN ON S-101.
 3. THE CONTRACTOR SHALL EXERCISE AN ABUNDANCE OF CAUTION TO PREVENT EXCESS LIQUID CHEMICAL GROUT FROM DROPPING INTO POND OR THE SPILLWAY CHANNEL.

CONCRETE-MASONRY INTERFACE LEAK REPAIR



CONCRETE SPLASH APRON

- NOTES**
1. PROVIDE A BROOM FINISH ON TOP SURFACE.



SPLASH APRON CONTROL JOINT PLAN

Last Saved: 4/6/2026 2:54pm By: JMan
 Plotted On: Apr 06, 2026 2:54pm
 Tighe & Bond, Worcester, MA
 Project: M0736-Task82A-S-Notes.dwg
 Design: Brian J. Gargan
 Drawn: JAK
 Checked: CDH, DRB
 Approved: CDH



Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	M736/82A	
DATE:	4/2026	
FILE:	M0736-Task82A-Structural.dwg	
DRAWN BY:	JAK	
CHECKED:	CDH,DRB	
APPROVED:	CDH	

DEMOLITION DETAILS (1 OF 2)

SCALE: NO SCALE

WHERE 100% SECTION LOSS IN RAILINGS IS EVIDENT, REMOVE AND REPLACE IN-KIND. RAILINGS TO BE REPLACED SHALL BE APPROVED BY THE ENGINEER. APPROX REPLACEMENT QTY IS 30 RAILINGS. REFER TO 02225 FOR SELECTIVE DEMOLITION REQUIREMENTS OF RAILINGS TO BE REMOVED AND REPLACED.

REMOVE MORTAR CAP AND REPLACE IN-KIND, SEE NOTE 2 (TYP ALL PILASTERS)



PHOTO 1
DAM AND BRIDGE LOOKING NORTHWEST ALONG HOSMER ROAD

CLEAN AND PAINT RAILINGS. DO NOT DISTURB EXISTING PAINT
REMOVE MORTAR CAP AND REPLACE IN-KIND, SEE NOTE 2 (TYP ALL PILASTERS)

REPOINT PILASTER MASONRY JOINTS SEE NOTES 2 & 3 (TYP ALL PILASTERS)

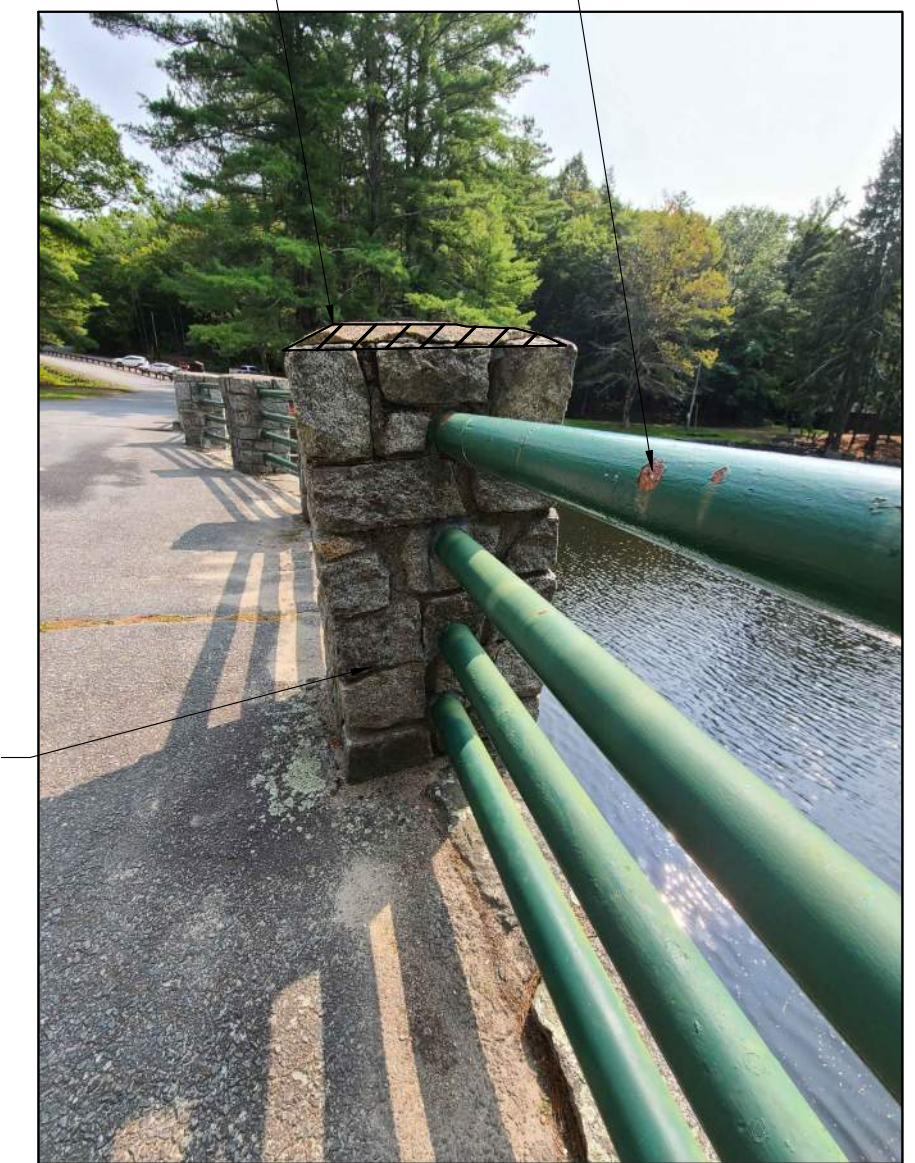


PHOTO 2
TYPICAL RAILING AND PILASTER 1

REMOVE MORTAR CAP AND REPLACE IN-KIND, SEE NOTE 2 (TYP ALL PILASTERS)

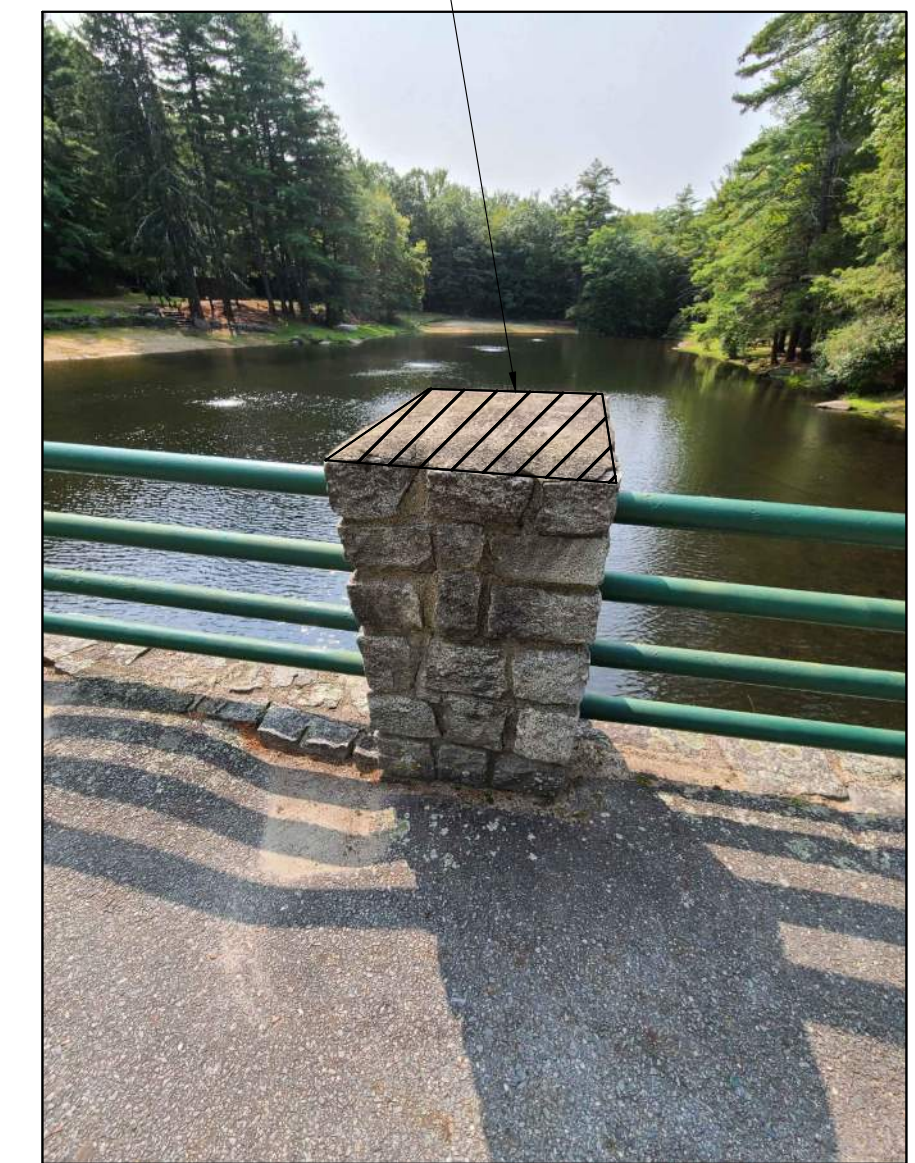


PHOTO 3
TYPICAL RAILINGS AND PILASTER 2

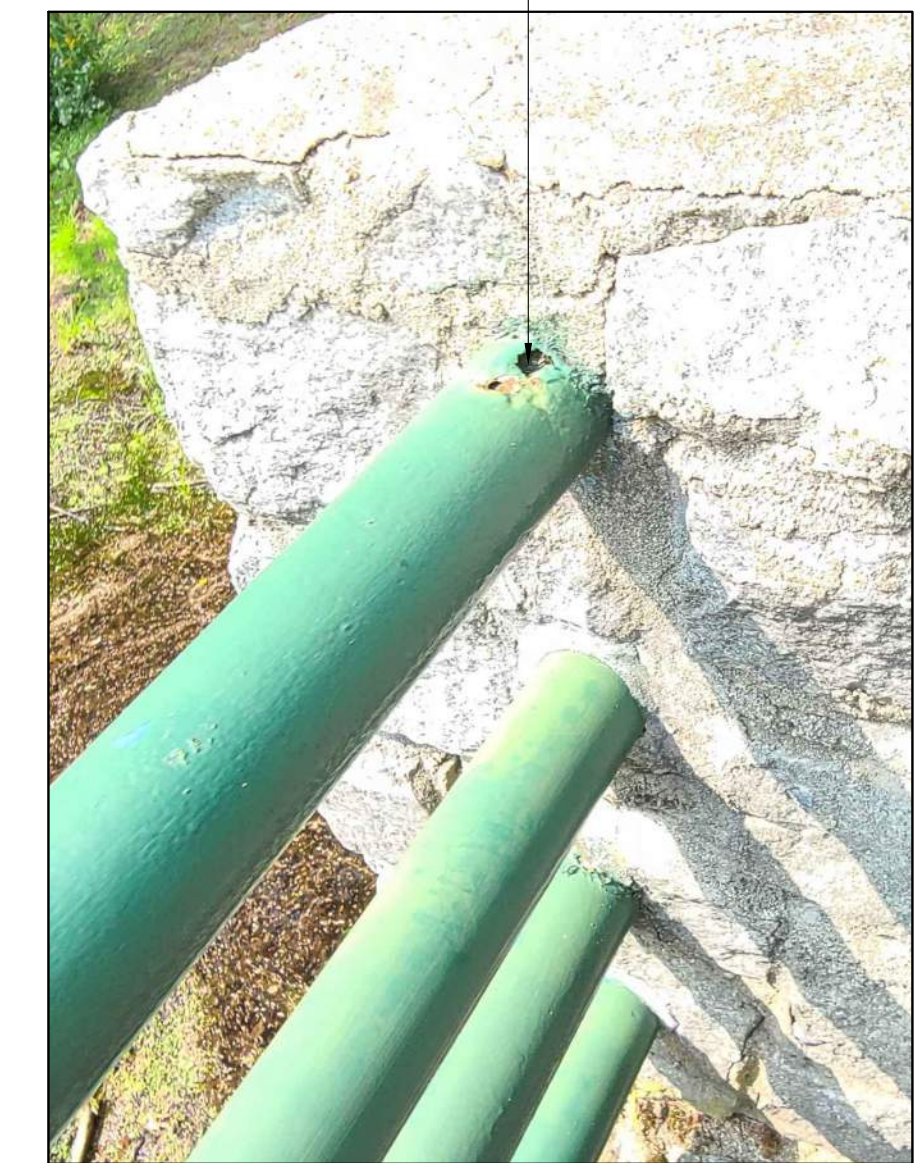


PHOTO 4
TYPICAL CORRODED RAILINGS

REMOVE SPALLING CONCRETE (TYP) EXPOSE AND CLEAN CORRODING STEEL FOR REPAIR, SEE NOTE 1

OVERHEAD SPALL WITH EXPOSED REINFORCEMENT IN BRIDGE DECK, SEE DETAILS ON S-505

REMOVE SPALLING ON EXTERIOR CONCRETE BEAMS(TYP), EXPOSE AND CLEAN CORRODING STEEL FOR REPAIR, SEE NOTE 1

GROUT INJECTION PRIOR TO CONCRETE SPALL REPAIR

REMOVE SPALLING ON EXTERIOR CONCRETE BEAMS(TYP), EXPOSE AND CLEAN CORRODING STEEL FOR REPAIR, SEE NOTE 1

REMOVE SPALLING ON INTERIOR CONCRETE BEAMS(TYP), EXPOSE AND CLEAN CORRODING STEEL FOR REPAIR, SEE NOTE 1

REMOVE SPALLING ON CONCRETE BEAMS(TYP), EXPOSE AND CLEAN CORRODING STEEL FOR REPAIR, SEE NOTE 1

REMOVE AND DISCARD EXISTING PIPE



PHOTO 5
NORTHWEST BUTTRESS AND SOUTHERN SPANDREL BEAM

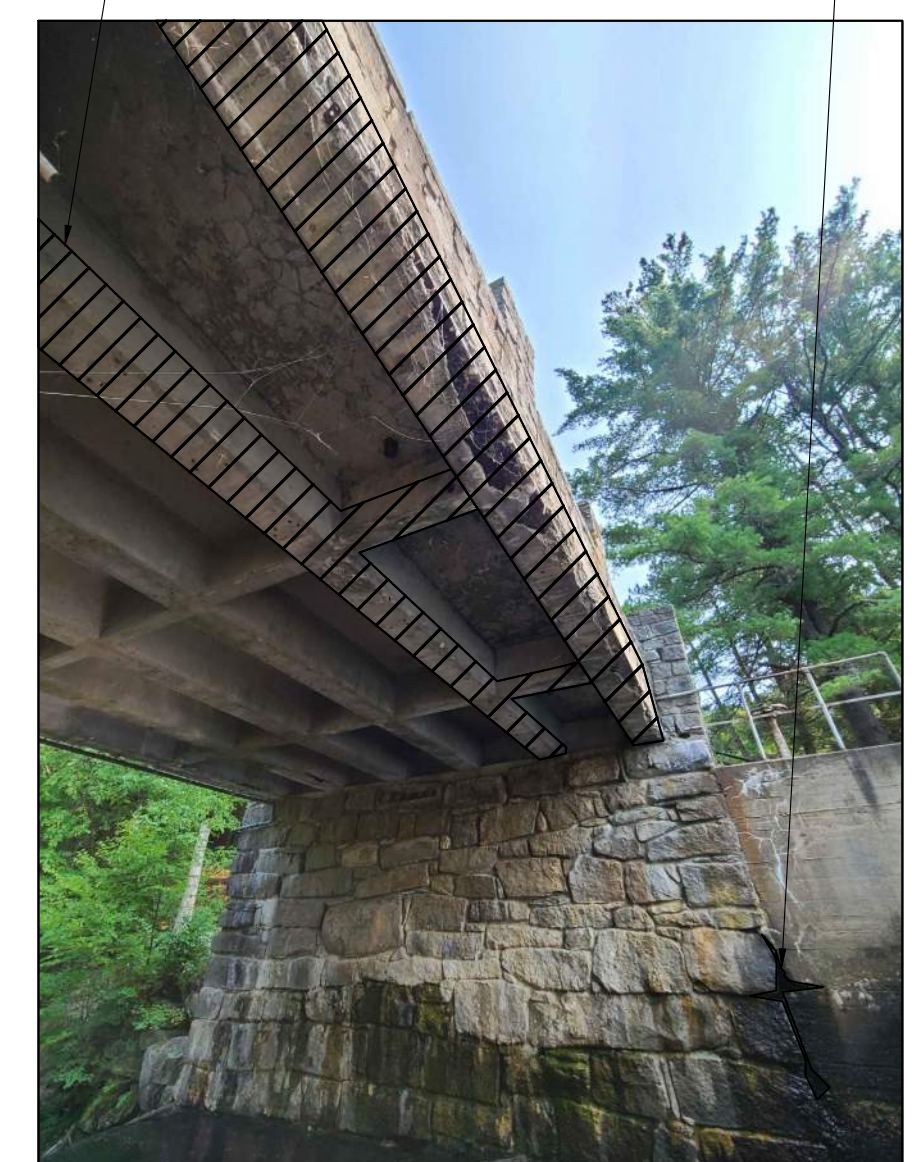


PHOTO 6
LOOKING SOUTHEAST: CONCRETE DETERIORATION ON SOUTHERN SPANDREL BEAM

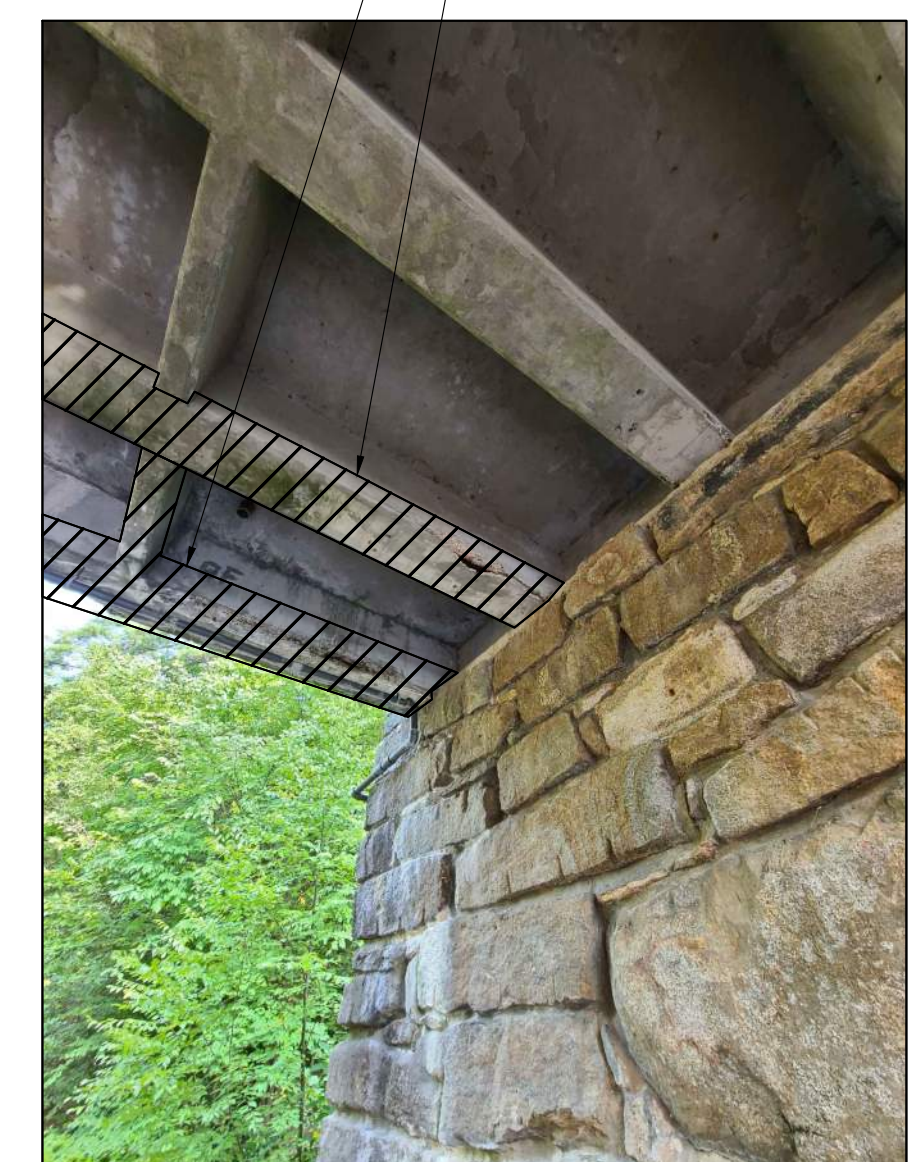


PHOTO 7
NORTHERN SPANDREL & INTERIOR BEAMS AT SOUTHEASTERN BUTTRESS

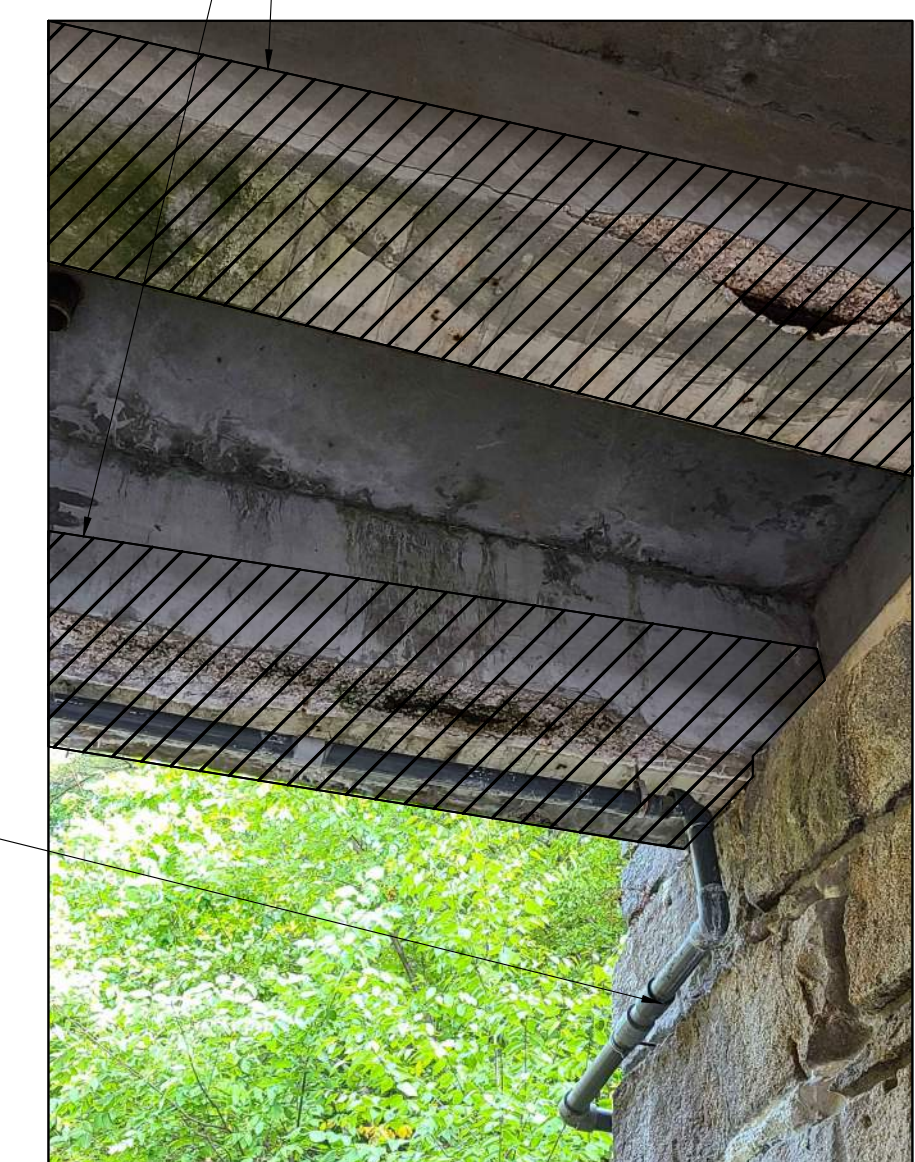
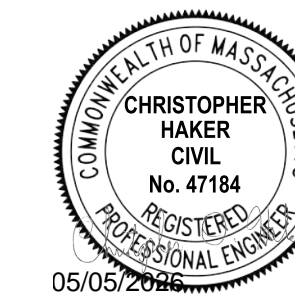


PHOTO 8
CLOSE UP: NORTHERN SPANDREL & INTERIOR BEAMS AT SOUTHEASTERN BUTTRESS

NOTES:

- SEE GENERAL NOTES ON SHEET S-001 AND SPECIFICATION SECTION 03930 FOR CONCRETE REPAIR REQUIREMENTS.
- SEE SPECIFICATION SECTION 04920 FOR MASONRY AND CAP MOCKUP AND MATERIAL REQUIREMENTS.
- ONE PILASTER SHALL BE IDENTIFIED AND USED AS A MOCKUP FOR PILASTER REPOINTING AND CAP WORK. MOCKUP TO BE APPROVED BY DCR PRIOR TO BEGINNING REPOINTING WORK. SEE SPECIFICATION SECTION 04920 FOR MOCKUP REQUIREMENT.

Last Saved: 4/6/2026 10:06:55 AM Plotted On: Apr 06, 2026 10:06:55 AM By: JHlan Tighe & Bond, Worcester, MA, DCR Engineering Services, USA, 02 - Damon Pond Dam 82A - Design Permitting and Construction Drawings - Figures AutoCAD Sheets/Task82A-Structural.dwg



Department of Conservation and Recreation

Damon Pond Dam Repairs And Area Improvements

Ashby, Massachusetts

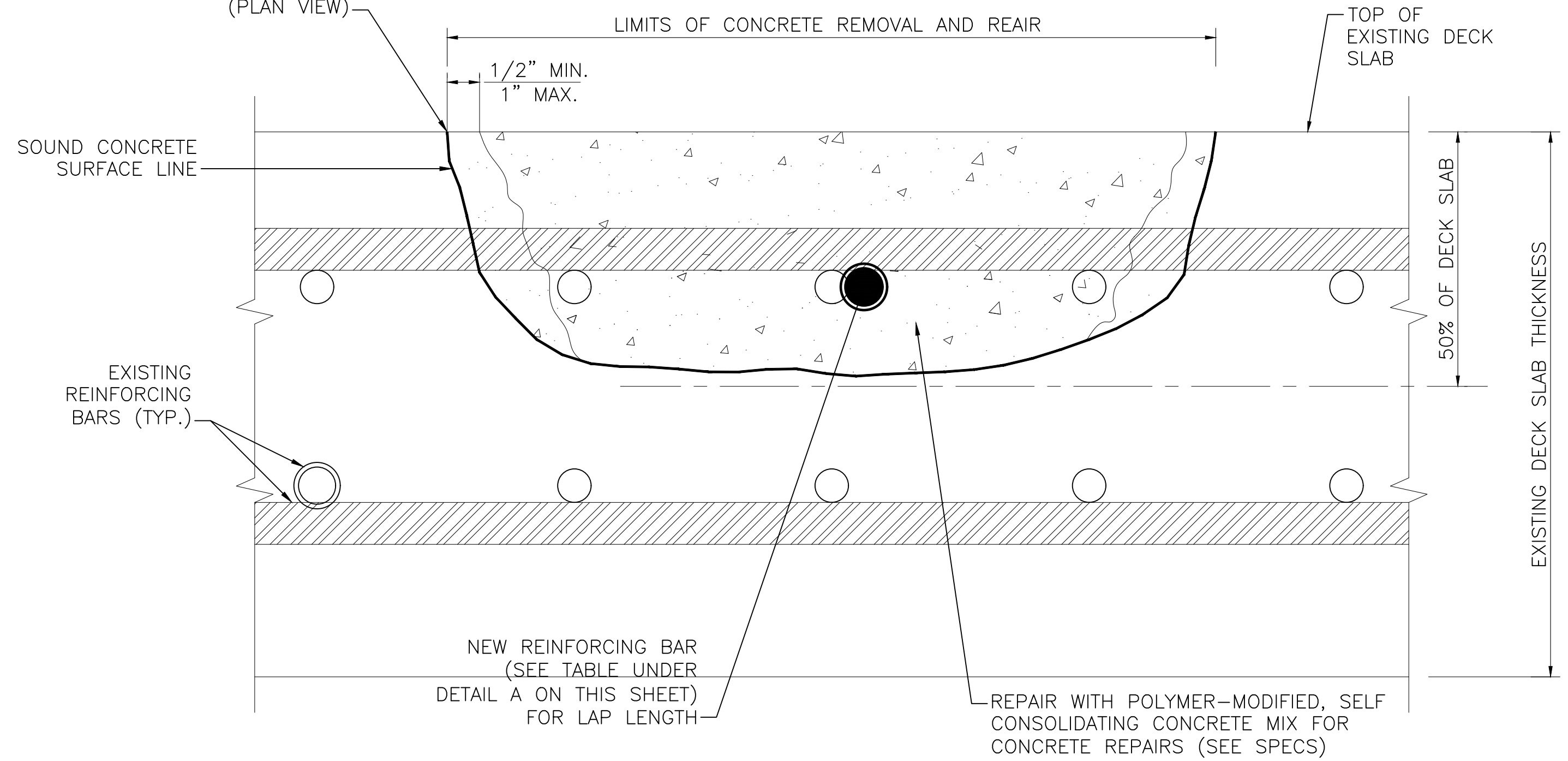
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DATE:	4/2026	
FILE:	M0736-Task82A-Structural.dwg	
DRAWN BY:	JAK	
CHECKED:	CDH,DRB	
APPROVED:	CDH	

REPAIR DETAILS (3 OF 3)

SCALE: NO SCALE

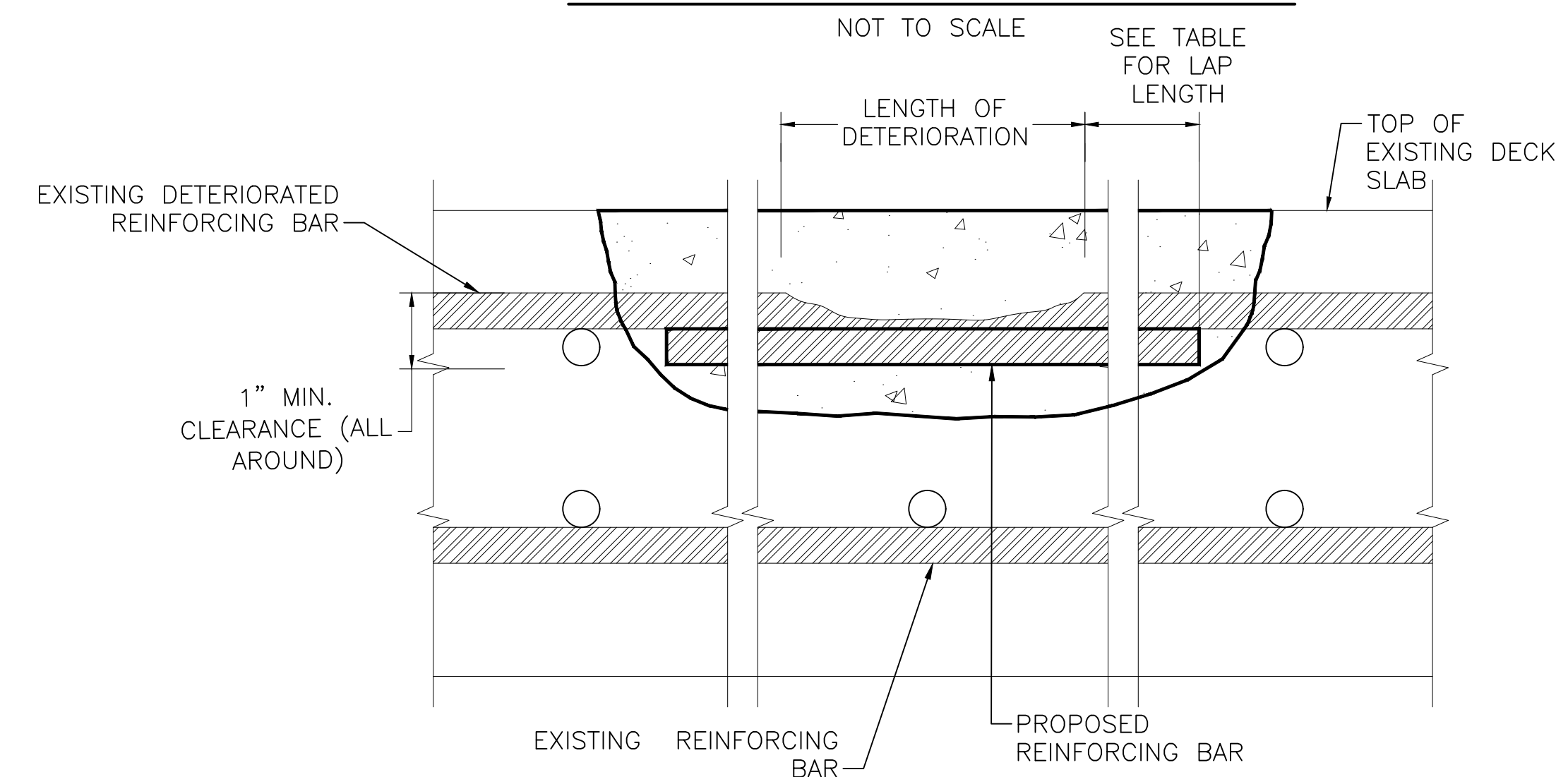
S-505
SHEET 16 OF 18

SAWCUT 1/2" DEEP ALL AROUND CONCRETE AREA TO BE REMOVED. SEE LIMITS OF REPAIR AREA (PLAN VIEW)



PARTIAL DEPTH BRIDGE DECK REPAIR

NOT TO SCALE



STEEL REINFORCEMENT LAP LENGTH				
MODIFICATION	#4 BARS	#5 BARS	#6 BARS	#7 BARS
COATED, CENTER TO CENTER SPACING < 6" COVER < 3DB	31"	39"	46"	53"
COATED, CENTER TO CENTER SPACING < 6" COVER ≥ 3DB	18"	22"	27"	49"
COATED, CENTER TO CENTER SPACING ≥ 6" COVER < 3DB	22"	28"	33"	49"
COATED, CENTER TO CENTER SPACING ≥ 6" COVER ≥ 3DB	18"	22"	27"	39"

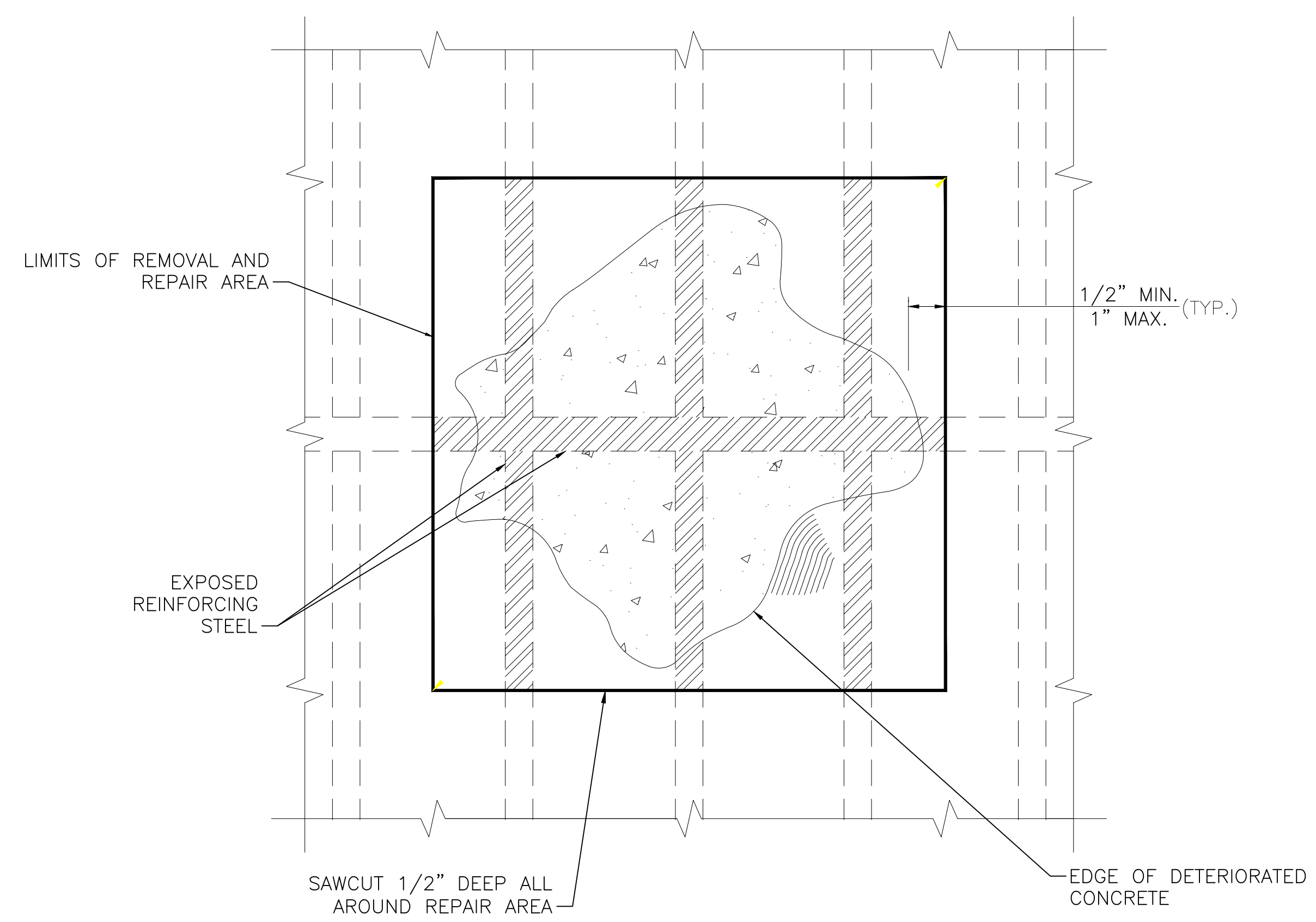
TYPICAL DETERIORATED REINFORCING BAR REPAIR DETAIL FOR BRIDGE DECK REPAIRS

NOTES

- LIMITS OF CONCRETE REMOVAL SHALL BE ADJUSTED, AS REQUIRED, TO FACILITATE REPAIRS OF DETERIORATED REINFORCING BARS INCLUDING THE REQUIRED LAP LENGTH.

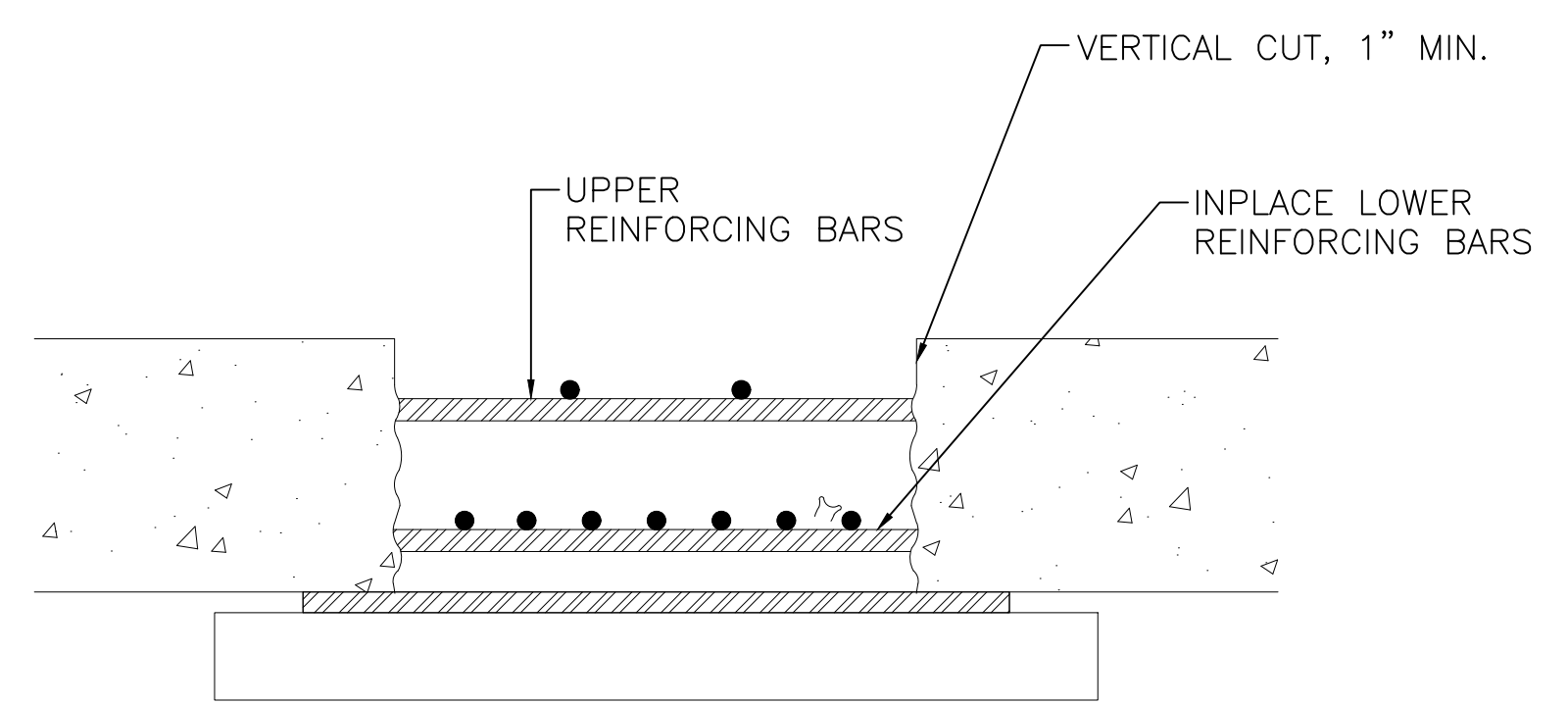


LIMITS OF REMOVAL AND REPAIR AREA



PLAN VIEW: TYPICAL LIMITS OF BRIDGE DECK REPAIR AREA

NOT TO SCALE



FORMWORK SUPPORT FOR FULL DEPTH BRIDGE DECK REPAIR

NOT TO SCALE

NOTES

- FORM WORK TO BE DESIGNED BY CONTRACTOR.
- DECK FORMS SHALL BE FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.
- REFER TO BRIDGE SUPERSTRUCTURE REHABILITATION NOTES ON S-001 FOR CONCRETE DECK REPAIR REQUIREMENTS.

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