

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



DESCRIPTION:

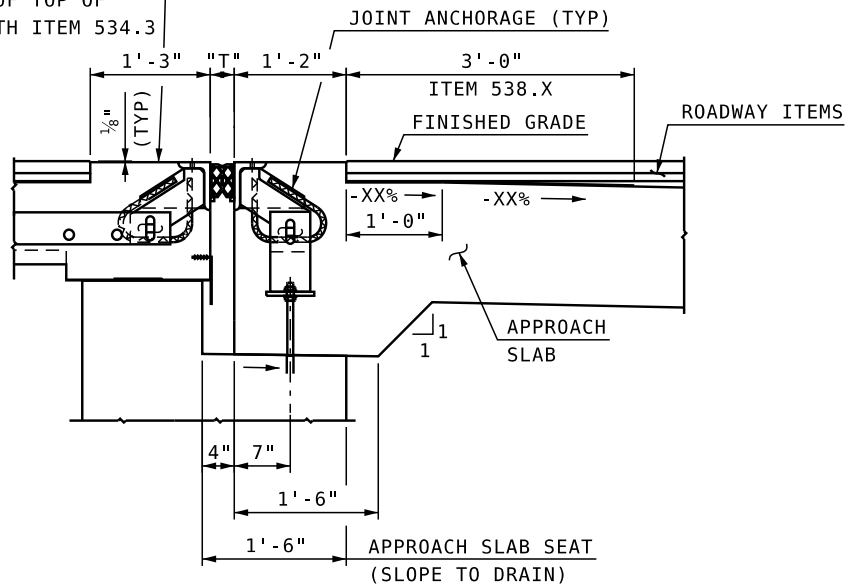
**APPROACH SLAB -
EXPANSION JOINT BEHIND BACKWALL**

DATE REVISED:

7/31/2023

COAT EXPOSED CONCRETE

SURFACES AT END OF DECK AND
EXPOSED SURFACE OF TOP OF
APPROACH SLAB WITH ITEM 534.3



APPROACH SLAB - EXP JT BEHIND BACKWALL

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

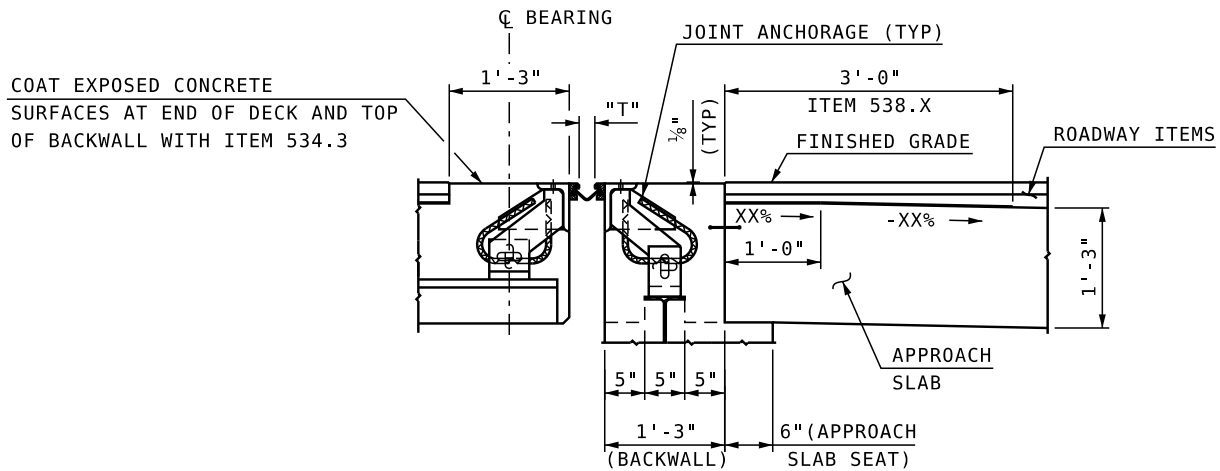


DESCRIPTION:

**APPROACH SLAB -
EXPANSION JOINT IN FRONT OF BACKWALL**

DATE REVISED:

7/31/2023



APPROACH SLAB - EXP JT IN FRONT OF BACKWALL

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN



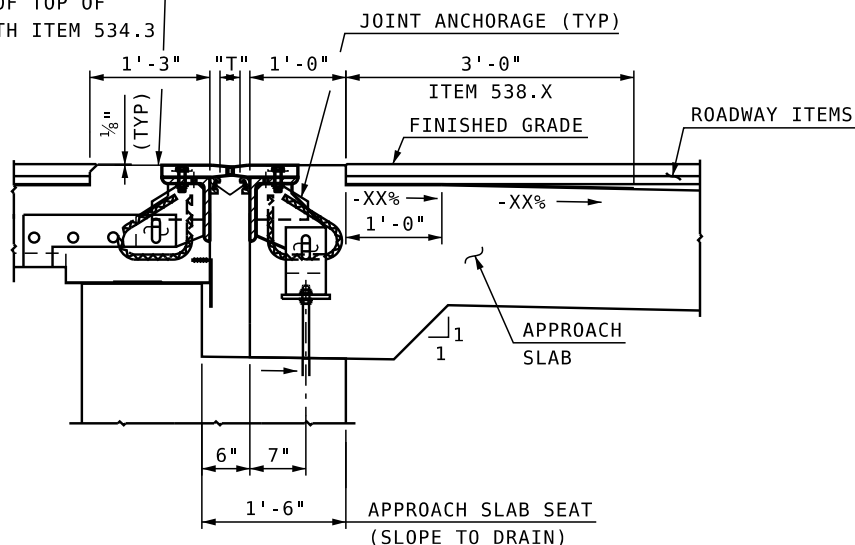
DESCRIPTION:

**APPROACH SLAB -
STRIP SEAL WITH PLOW PLATE BEHIND BACKWALL**

DATE REVISED:

7/31/2023

COAT EXPOSED CONCRETE
SURFACES AT END OF DECK AND
EXPOSED SURFACE OF TOP OF
APPROACH SLAB WITH ITEM 534.3



APPROACH SLAB - EXP JT W/ PLOW PLATE BEHIND BACKWALL

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

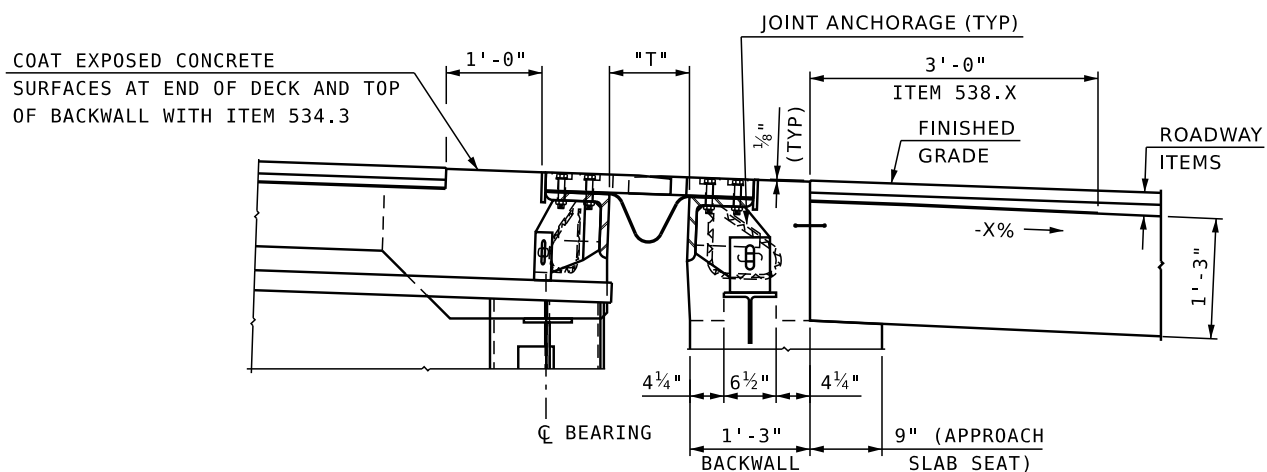


DESCRIPTION:

**APPROACH SLAB -
FINGER JOINT IN FRONT OF BACKWALL**

DATE REVISED:

7/31/2023



APPROACH SLAB - FINGER JT IN FRONT OF BACKWALL

**MODIFY TO
FIT PROJECT**

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

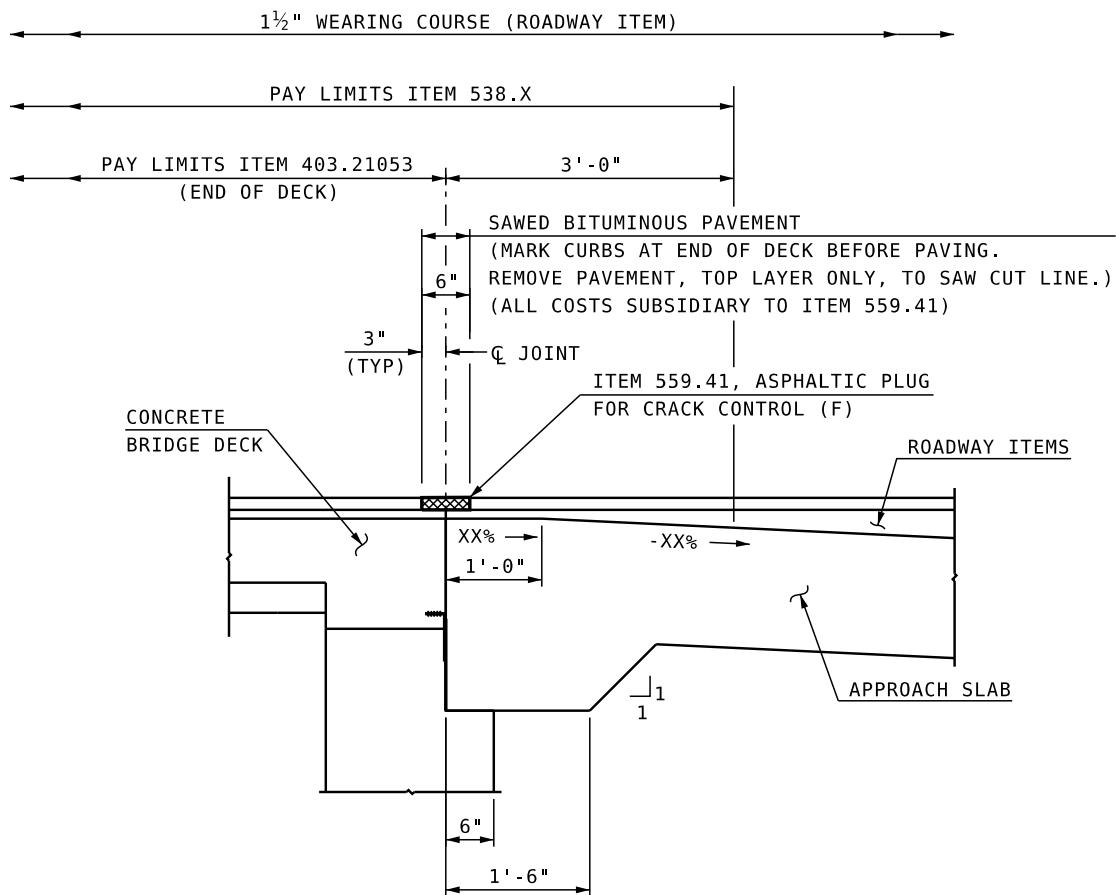


DESCRIPTION:

APPROACH SLAB - FIXED END

DATE REVISED:

7/31/2023



APPROACH SLAB - FIXED END

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

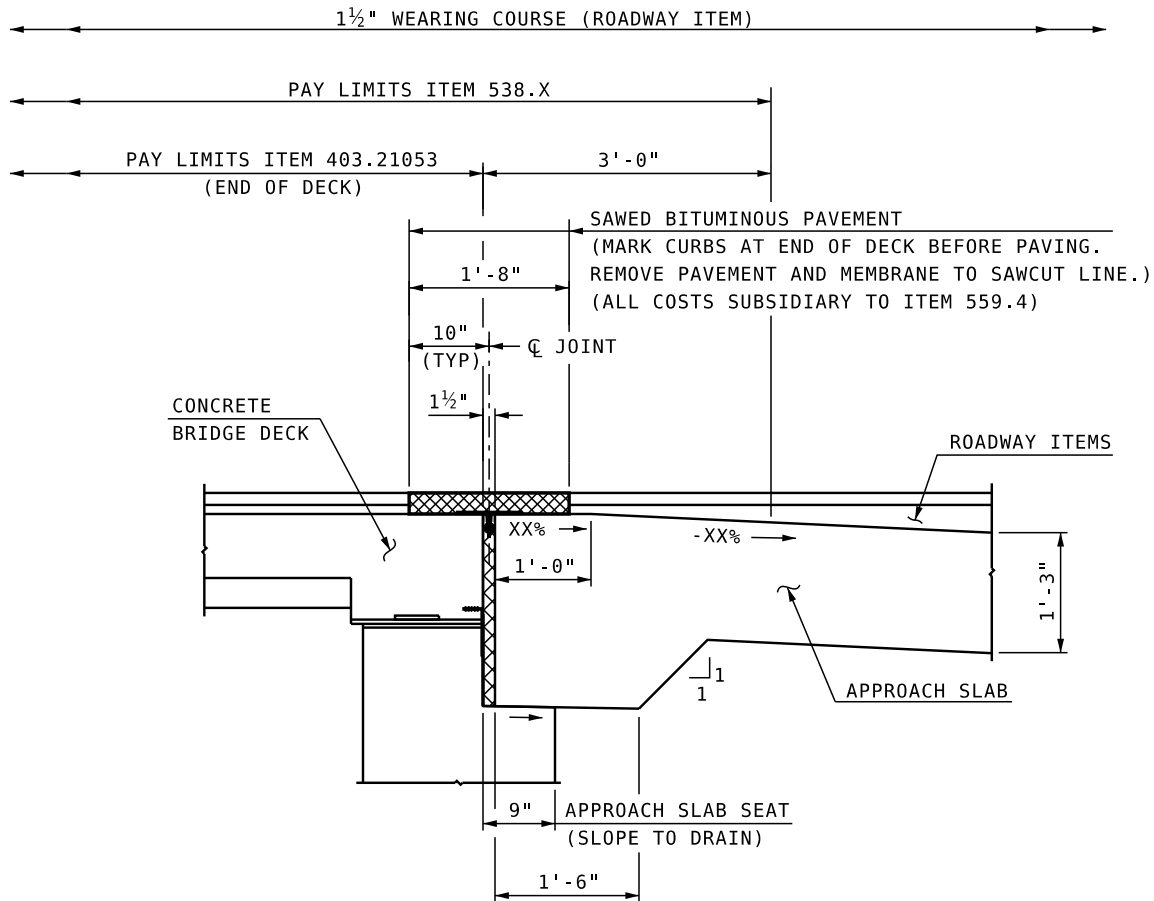


DESCRIPTION:

APPROACH SLAB - ASPHALTIC PLUG EXPANSION JOINT

DATE REVISED:

7/31/2023



APPROACH SLAB - ASPHALTIC PLUG EXP. JOINT

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

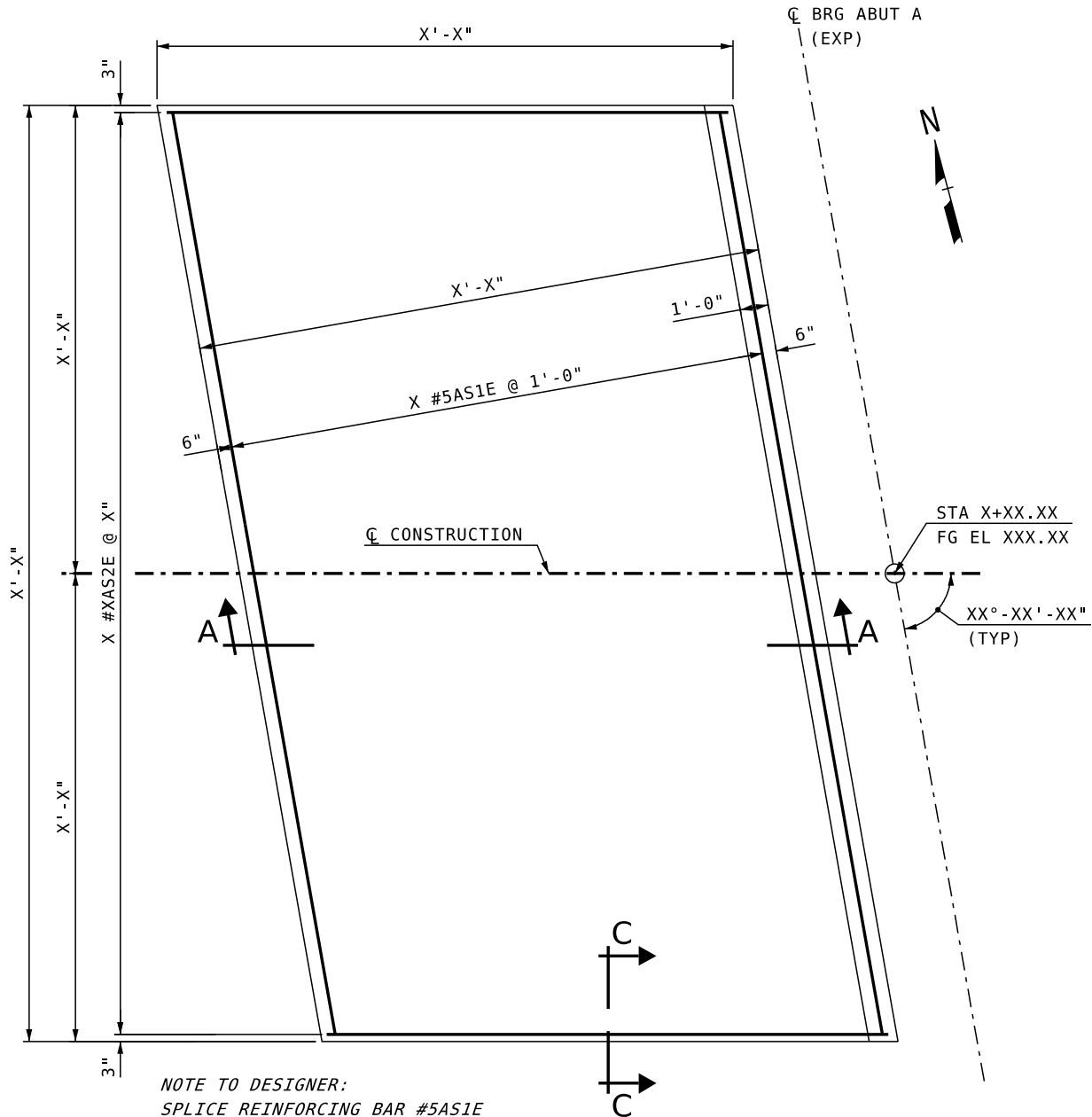


DESCRIPTION:

**APPROACH SLAB -
MAONRY AND REINFORCEMENT**

DATE REVISED:

7/31/2023



NOTE TO DESIGNER:
 SPLICE REINFORCING BAR #5AS1E
 IF IT EXCEEDS MAXIMUM BAR LENGTH
 AS NOTED IN NHDOT BDM CHAPTER 6.

APPROACH SLAB MASONRY & REINFORCEMENT (NO HAUNCH)

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



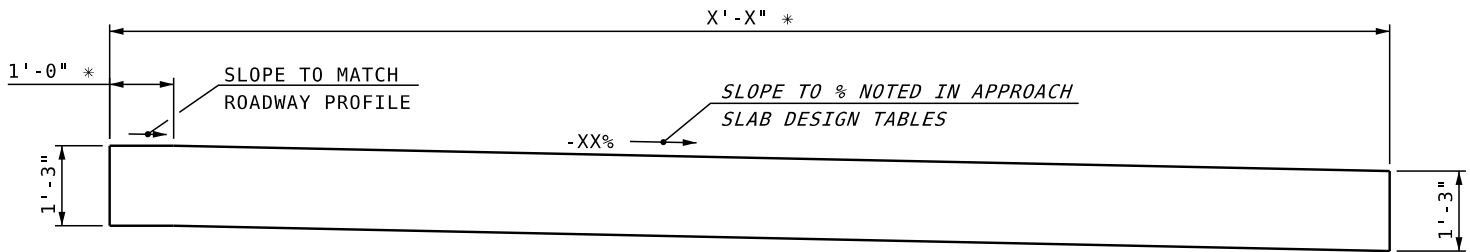
DESCRIPTION:

APPROACH SLAB -
EXPANSION JOINT IN FRONT OF BACKWALL

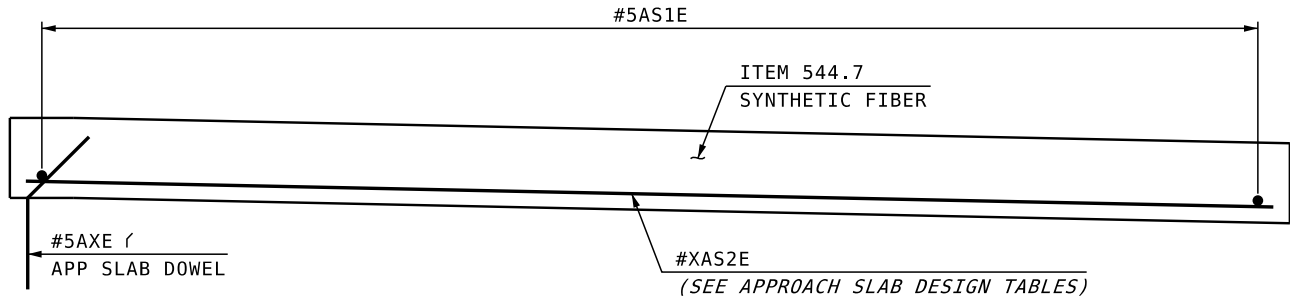
DATE REVISED:

7/31/2023

* DIMENSIONS NORMAL TO BACK OF BACKWALL



MASONRY



REINFORCEMENT

NOTE TO DESIGNER:
PROVIDE TOP AND BOTTOM MAT OF REINFORCING
STEEL WITH AT GRADE APPROACH SLABS AS
USED WITH INTERGRAL ABUTMENTS.
OMIT SYNTHETIC FIBER IF BOTH MATS OF
REINFORCING STEEL ARE USED.

APPROACH SLAB - EXP JT IN FRONT OF BACKWALL (SECTION A-A)

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

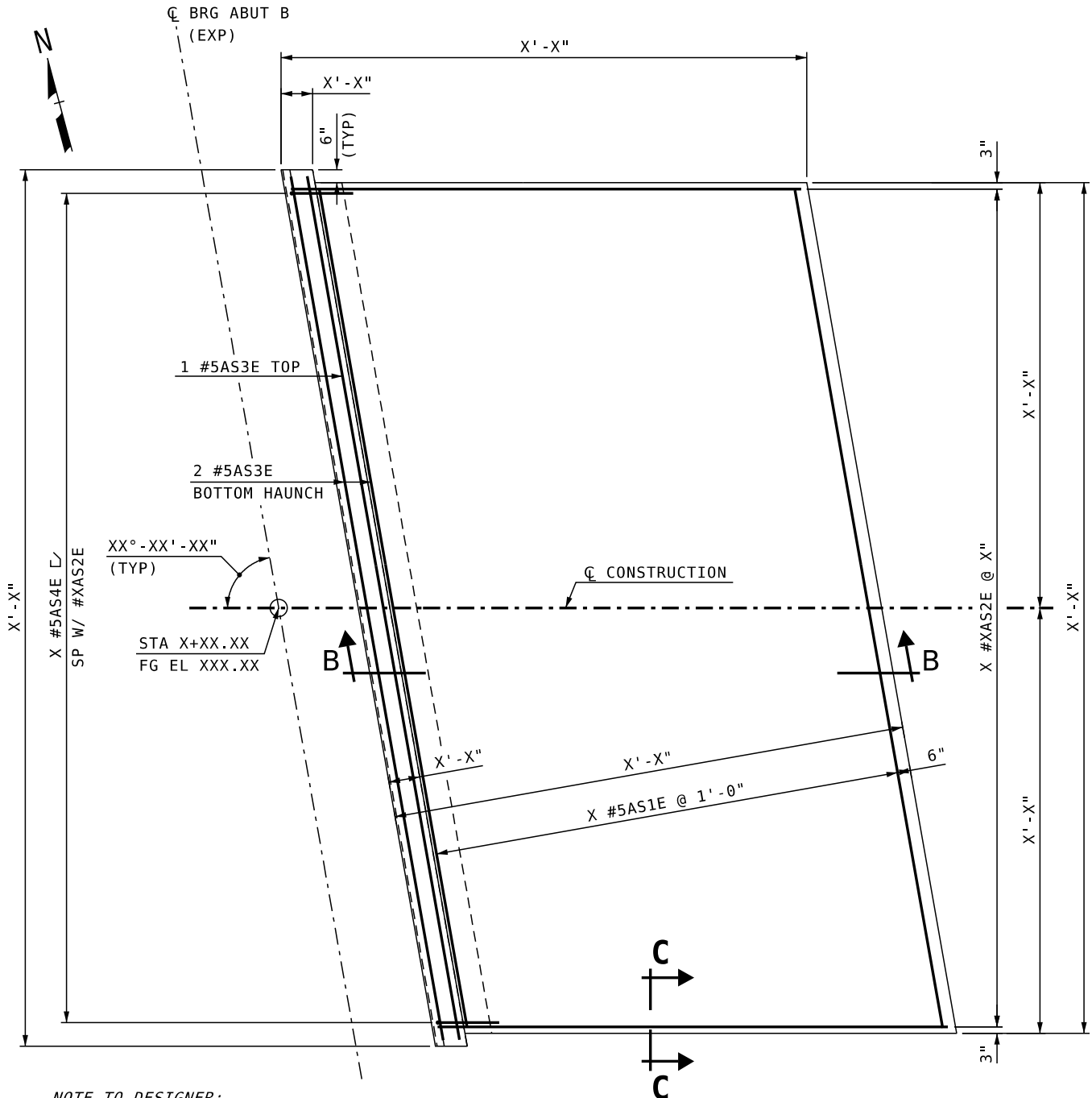


DESCRIPTION:

**APPROACH SLAB -
MASONRY AND REINFORCEMENT**

DATE REVISED:

7/31/2023



NOTE TO DESIGNER:
SPLICE REINFORCING BAR #5AS1E
IF IT EXCEEDS MAXIMUM BAR LENGTH
AS NOTED IN NHDOT BDM CHAPTER 6.

APPROACH SLAB MASONRY & REINFORCEMENT (HAUNCH)

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



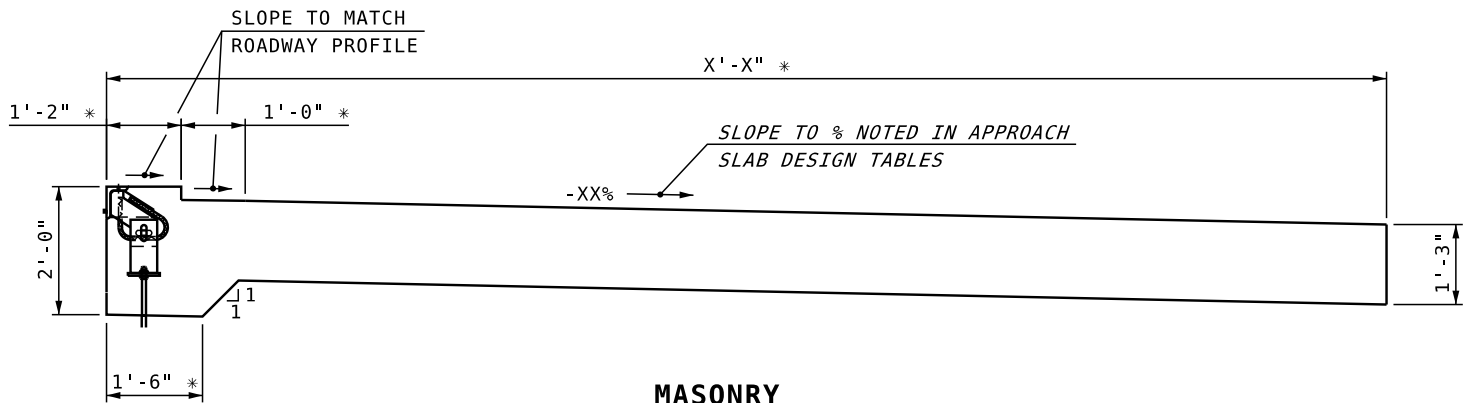
DESCRIPTION:

**APPROACH SLAB -
EXPANSION JOINT BEHIND BACKWALL**

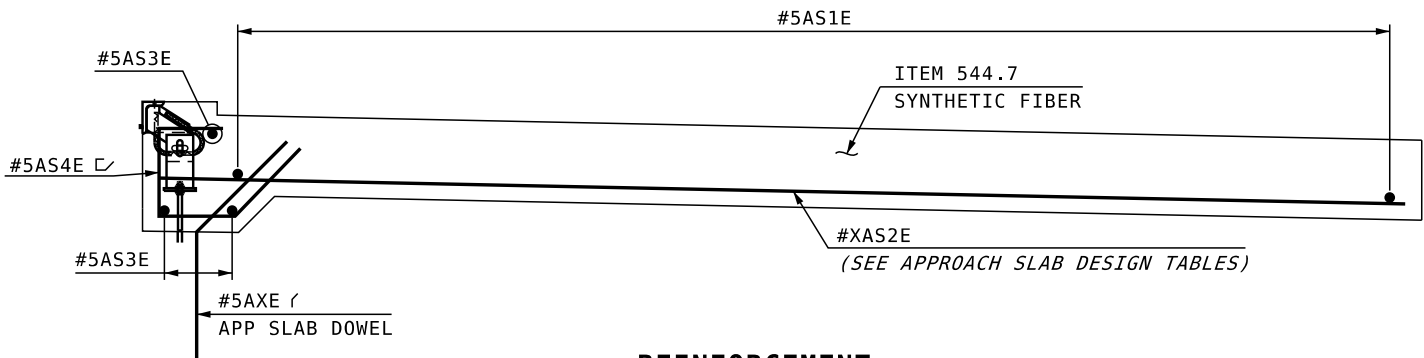
DATE REVISED:

7/31/2023

* DIMENSIONS NORMAL TO BACK OF BACKWALL



MASONRY



REINFORCEMENT

*NOTE TO DESIGNER:
PROVIDE TOP AND BOTTOM MAT OF REINFORCING
STEEL WITH AT GRADE APPROACH SLABS AS
USED WITH INTEGRAL ABUTMENTS.
OMIT SYNTHETIC FIBER IF BOTH MATS OF
REINFORCING STEEL ARE USED.*

APPROACH SLAB - EXP JT BEHIND BACKWALL (SECTION B-B)

**MODIFY TO
FIT PROJECT**

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN

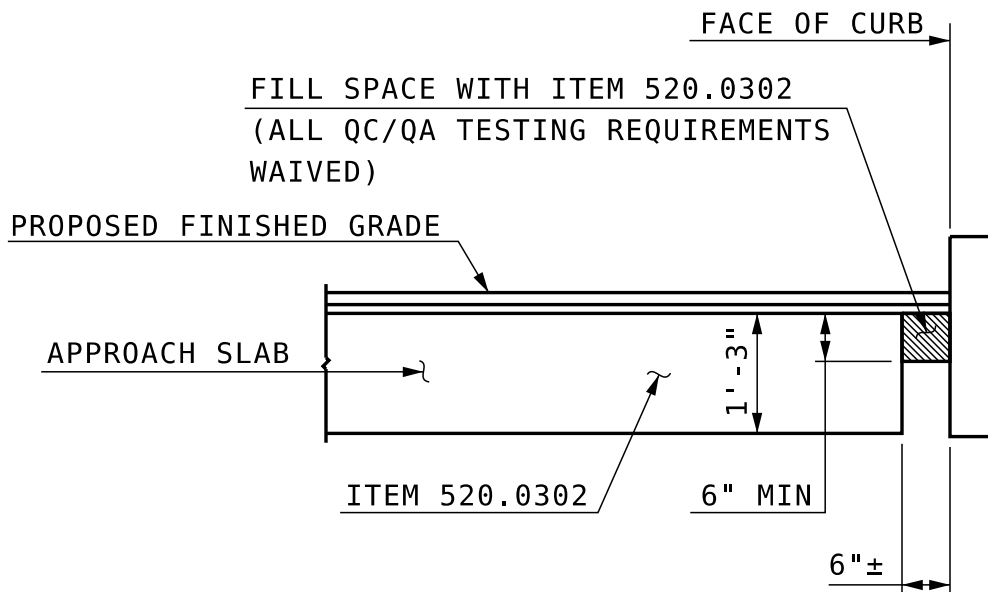


DESCRIPTION:

APPROACH SLAB - AT CURB SECTION

DATE REVISED:

2/17/2023



*NOTE: DO NOT USE DETAIL WITH APPROACH
SLABS FOR INTEGRAL BRIDGES*

APPROACH SLAB AT CURB SECTION (SECTION C-C)

MODIFY TO
FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



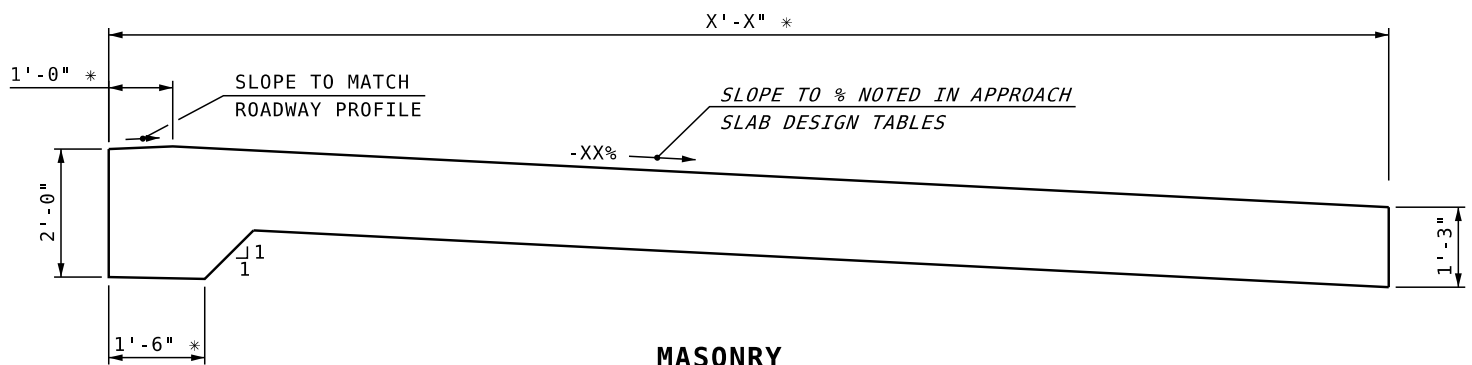
DESCRIPTION:

APPROACH SLAB - DECK OVER BACKWALL

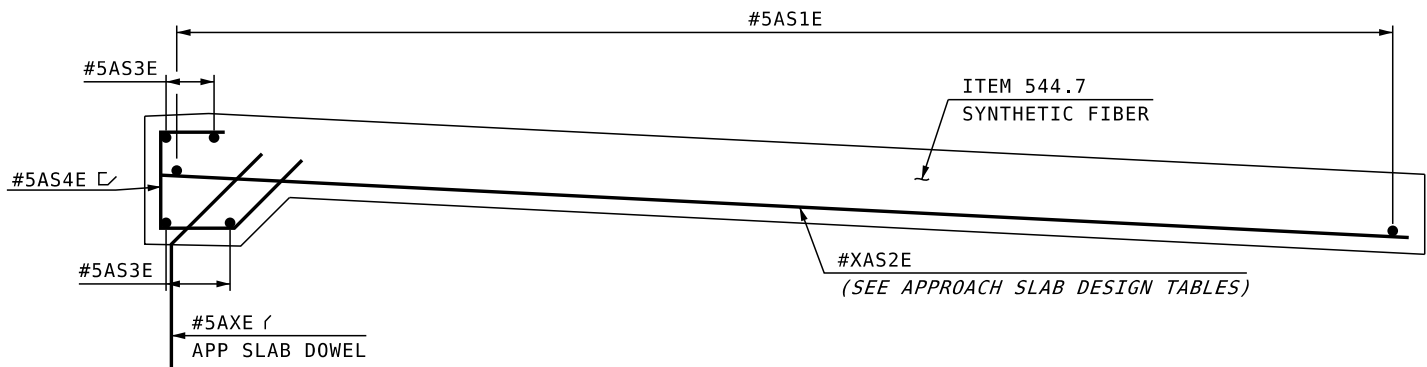
DATE REVISED:

7/31/2023

* DIMENSIONS NORMAL TO BACK OF BACKWALL



MASONRY



REINFORCEMENT

NOTE TO DESIGNER:
PROVIDE TOP AND BOTTOM MAT OF REINFORCING STEEL WITH AT GRADE APPROACH SLABS AS USED WITH INTEGRAL ABUTMENTS.
OMIT SYNTHETIC FIBER IF BOTH MATS OF REINFORCING STEEL ARE USED.

APPROACH SLAB - DECK OVER BACKWALL (FIXED END)

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



DESCRIPTION:

APPROACH SLAB DESIGN TABLES

DATE REVISED:

7/31/2023

APPROACH SLAB REINFORCING			
APPROACH SLAB LENGTH *	APPROACH SLAB THICKNESS	SKEW	BOTTOM REINFORCING (spaced parallel to CL construction)
10-ft.	15-in.	0° - 45°	#7 sp. @ 12-in.
15-ft.	15-in.	0° - 45°	#8 sp. @ 12-in.
20-ft.	15-in.	0° - 25°	#6 sp. @ 6-in.
		26° - 45°	#7 sp. @ 6-in.
25-ft.	15-in.	0° - 25°	#7 sp. @ 6-in.
		26° - 45°	#8 sp. @ 6-in.
30-ft.	15-in.	0° - 25°	#8 sp. @ 6-in.
		26° - 45°	#9 sp. @ 6-in.

* MEASURED PERPENDICULAR TO ABUTMENT

APPROACH SLAB REINFORCING TABLE

APPROACH SLAB % SLOPE		
ROADWAY SLOPE	DOWNHILL APPROACH SLAB SLOPE	UPHILL APPROACH SLAB SLOPE
0%	-5%	-5%
0% < SLOPE ≤ 1%	-6%	-5%
1% < SLOPE ≤ 2%	-7%	-5%
2% < SLOPE ≤ 3%	-8%	-5%
3% < SLOPE ≤ 4%	-9%	-5%
4% < SLOPE ≤ 5%	-10%	-5%
5% < SLOPE ≤ 6%	-11%	-5%
6% < SLOPE ≤ 7%	-12%	-5%
7% < SLOPE ≤ 8%	-13%	-5%
8% < SLOPE ≤ 9%	-14%	-5%
9% < SLOPE ≤ 10%	-15%	-5%

APPROACH SLAB % SLOPE TABLE