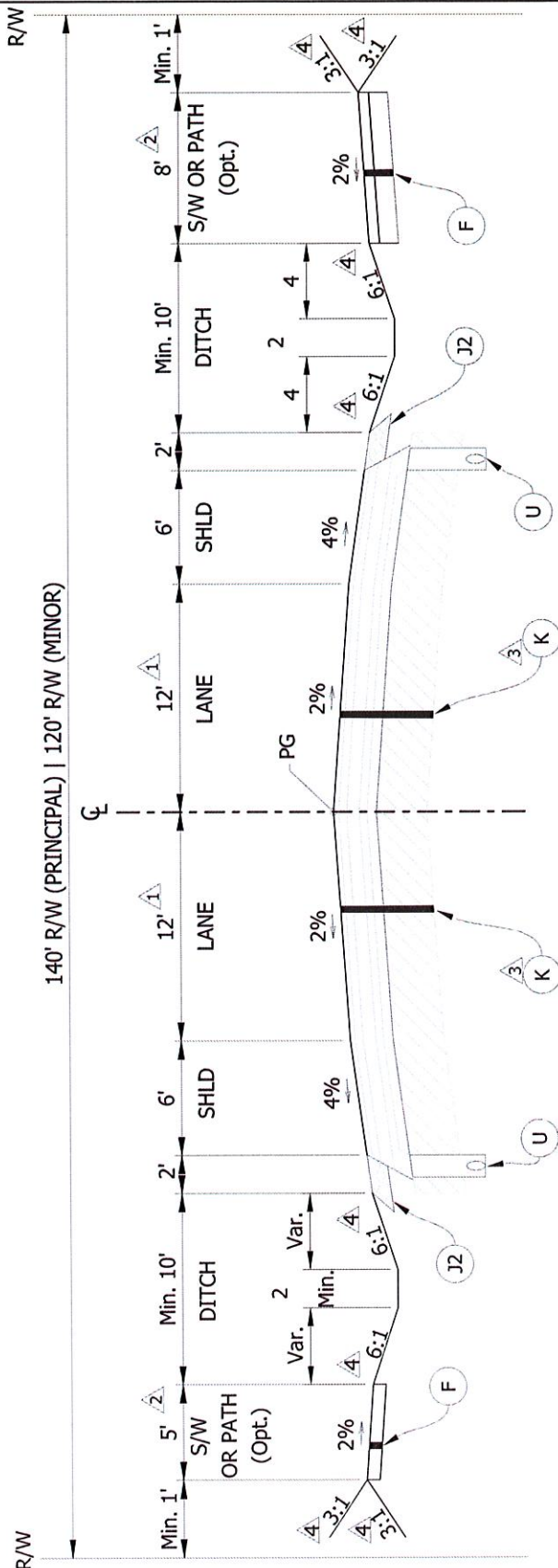


**INDEX OF BOONE COUNTY STANDARDS
400 SERIES STANDARD DRAWINGS
ASPHALT PAVEMENTS**

Typical Rural Arterial Street Cross Section.....	BC-400-001
Typical Urban Arterial Street With Raised Median Cross Section.....	BC-400-002A
Typical Urban Arterial Street With Striped Median Cross Section.....	BC-400-002B
Typical Rural Major Collector Cross Section.....	BC-400-003
Typical Urban Major Collector With Raised Median Cross Section.....	BC-400-004A
Typical Urban Major Collector With Striped Median Cross Section.....	BC-400-004B
Typical Rural Minor Collector Street Cross Section.....	BC-400-005
Typical Urban Minor Collector Street Cross Section.....	BC-400-006
Typical Rural Local Street/Residential Feeder Cross Section.....	BC-400-007
Typical Urban Local Street/Residential Feeder Cross Section.....	BC-400-008
Typical Underdrain Detail.....	BC-401-001
Typical Full Depth Patch Detail.....	BC-402-001
Typical HMA Road Cut Patch Detail.....	BC-402-002
Terminus Transitions.....	BC-403-001
Typical Safety Edge Details.....	BC-403-002
Aggregate to HMA Pavement Transition Detail.....	BC-403-003





NOTES:

LEGEND:

1. See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 12' Lane Each Direction
4 Lane Roadway - 2 x 12' Lanes Each Direction
Addition Of Auxilliary Lane - 12'
Addition Of Optional Bike Lane - 5'
2. See Boone County Thoroughfare Plan;
Both Sides Optional 5' Sidewalk Or 8' - 12' Multi-use Path
3. Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
4. Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)
5. For Safety Edge Details, See STD Drawing BC-403-002

- F Concrete Sidewalk - See STD Drawing BC-602-001 Or HMA Path - See STD Drawing BC-602-002
- J2 6.0" Compacted Aggregate Shoulder
- K Bridge Rehabilitation/Replacement Approach
- U Underdrain (Typ.) - See STD Drawing BC-401-001

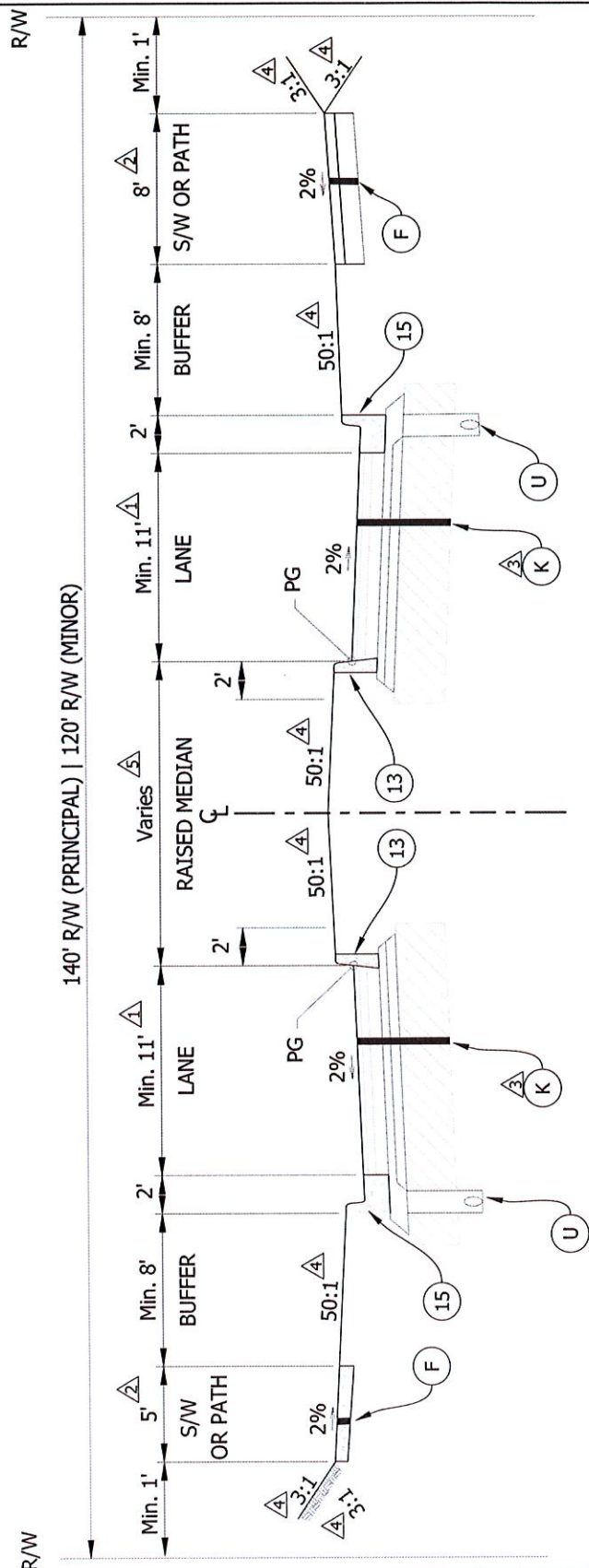
Pavement Layer	Bridge Rehabilitation/Replacement Approach	New Construction or Expansion
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	2.5"
Compacted Aggregate No. 53	6.0"	3.0"
INDOT Subgrade Treatment IB or IC	Yes	Yes

RECOMMENDED
FOR APPROVAL

Design Engineer
DESIGN ENGINEER

REVISED 07/05/2022





NOTES:

- ① See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 11' Lane Each Direction (Min.)
4 Lane Roadway - 2 x 11' Lanes Each Direction (Min.)
Addition Of Auxiliary Lane - 11' (Min.)
Addition Of Optional Bike Lane - 5'
- ② See Boone County Thoroughfare Plan;
Both Sides Require 5' Sidewalk Or 8' - 12' Multi-use Path
- ③ Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
- ④ Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)
- ⑤ See Boone County Thoroughfare Plan;
Optional Raised Median 3' - 16'
When Median < 3' Use STD Drawing BC-400-002B

LEGEND:

- ⑥ Concrete Sidewalk - See STD Drawing BC-602-001 Or HMA Path - See STD Drawing BC-602-002
- ⑦
- ⑧
- ⑨
- ⑩
- ⑪
- ⑫
- ⑬
- ⑭
- ⑮

Pavement Layer	Bridge Rehabilitation/ Replacement Approach	New Construction or Expansion
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	2.5"
Compacted Aggregate No. 53	6.0"	3.0"
INDOT Subgrade Treatment 1B or 1C	Yes	Yes

Underdrain (Typ.) - See STD Drawing BC-401-001

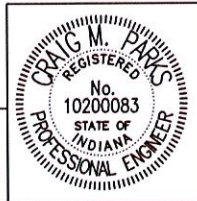
Concrete Curb - See STD Drawing BC-601-001

Concrete Curb And Gutter - See STD Drawing BC-601-001

RECOMMENDED FOR APPROVAL

[Signature]
DESIGN ENGINEER

REVISED 07/05/2022

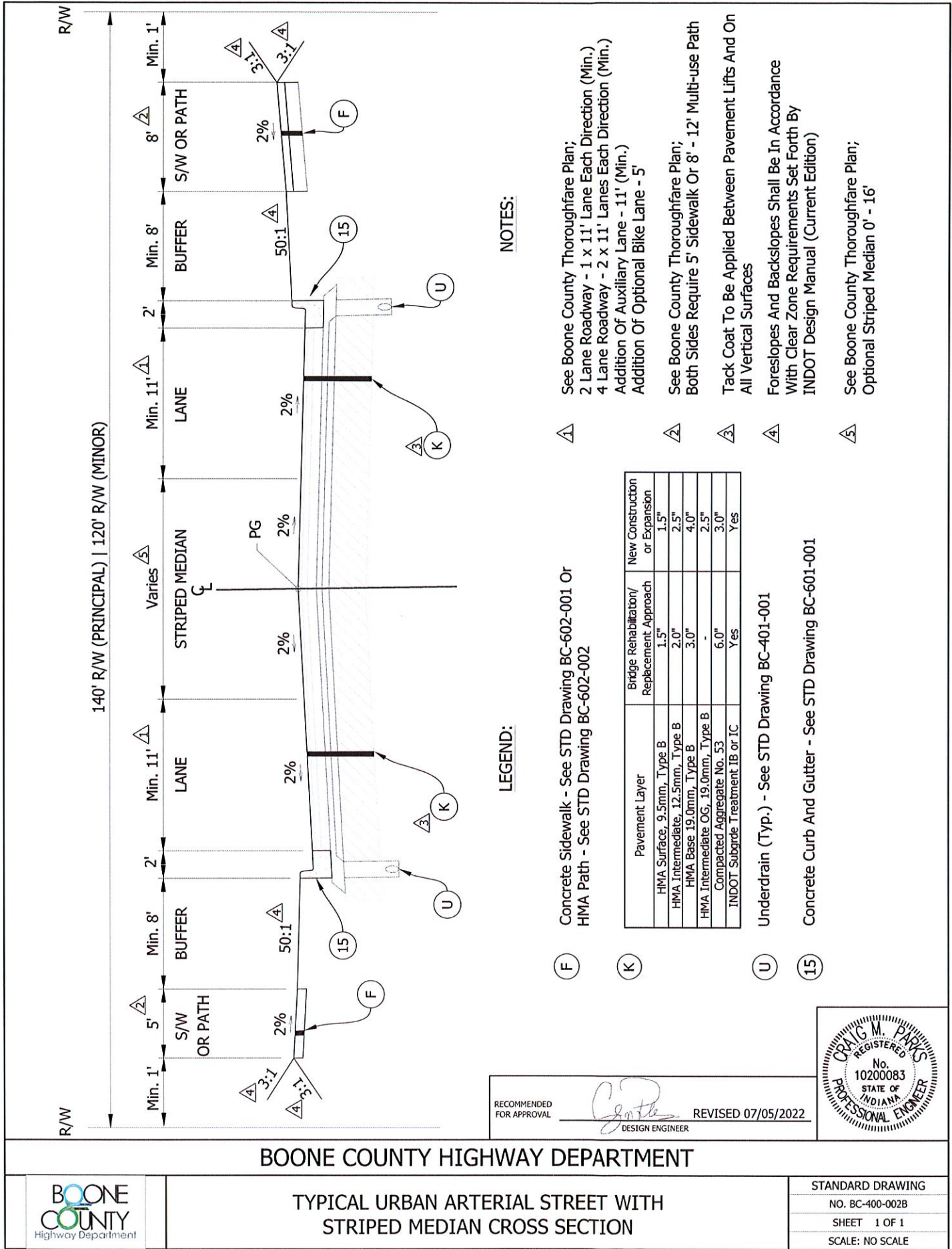


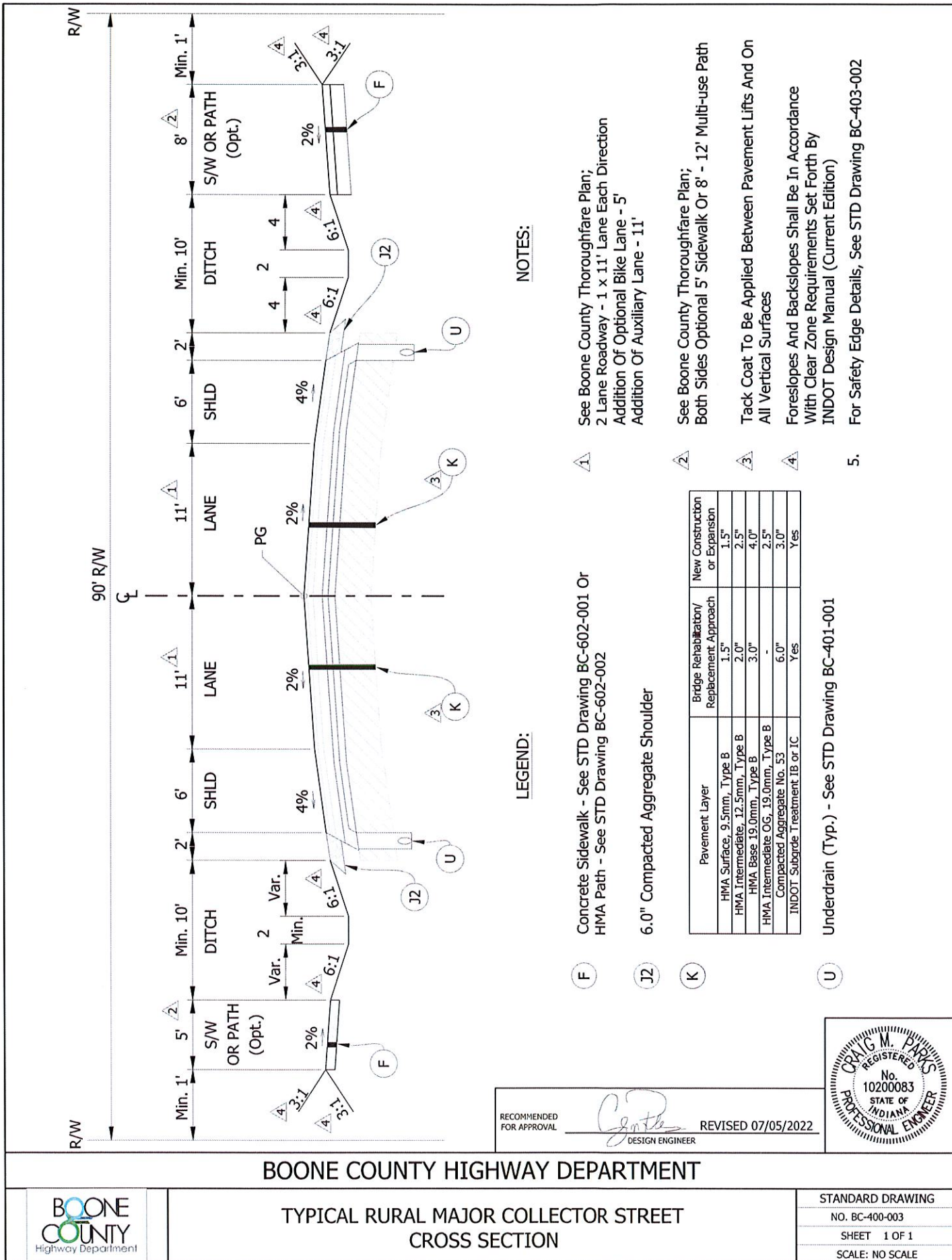
BOONE COUNTY HIGHWAY DEPARTMENT



**TYPICAL URBAN ARTERIAL STREET WITH
RAISED MEDIAN CROSS SECTION**

STANDARD DRAWING
NO. BC-400-002A
SHEET 1 OF 1
SCALE: NO SCALE





BOONE COUNTY HIGHWAY DEPARTMENT

TYPICAL RURAL MAJOR COLLECTOR STREET CROSS SECTION



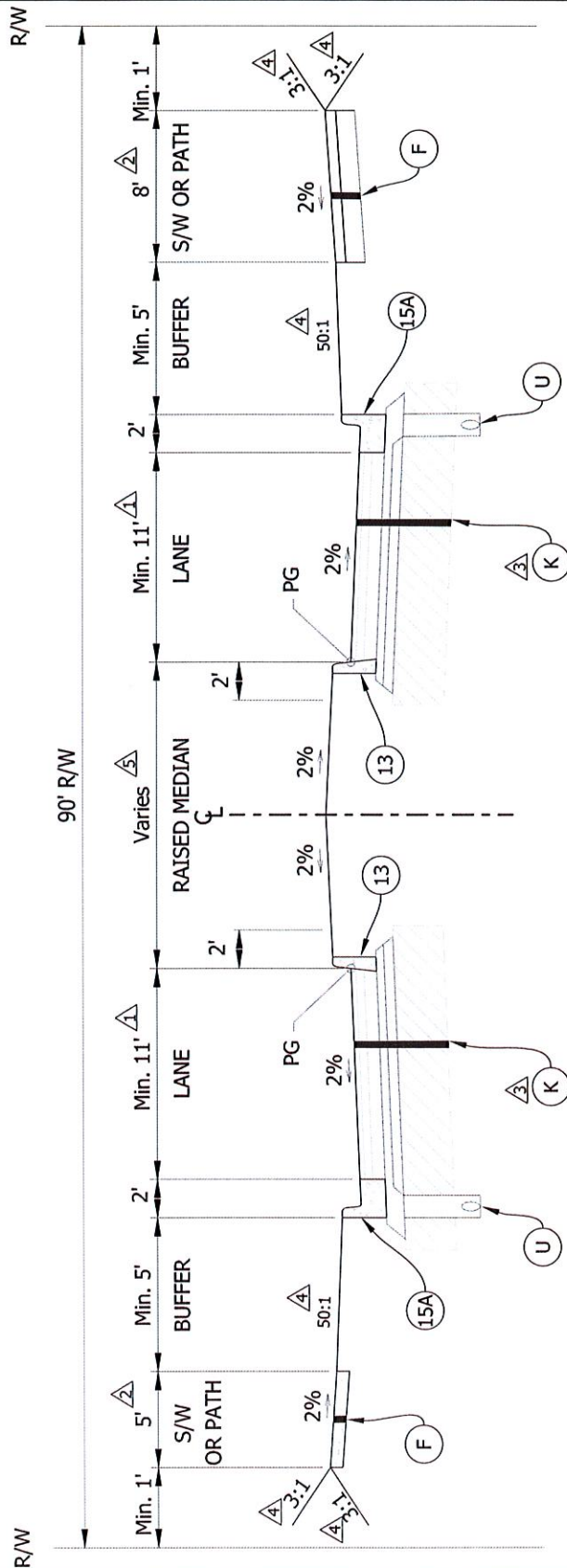
STANDARD DRAWING
NO. BC-400-003
SHEET 1 OF 1
SCALE: NO SCALE



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

REVISED 07/05/2022



NOTES:

- 1 See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 11' Lane Each Direction (Min.)
Addition Of Optional Bike Lane - 5'
Addition Of Auxiliary Lane - 11' (Min.)
Addition Of Optional Parking Lane - 8' (Min.)
- 2 See Boone County Thoroughfare Plan;
Both Sides Require 5' Sidewalk Or 8' - 12' Multi-use Path
- 3 Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
- 4 Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)
- 5 See Boone County Thoroughfare Plan;
Optional Raised Median 3' - 16'
When Median < 3' Use STD Drawing BC-400-004B

LEGEND:

- F Concrete Sidewalk - See STD Drawing BC-602-001 Or
HMA Path - See STD Drawing BC-602-002
- K Pavement Layer
- U Underdrain (Typ.) - See STD Drawing BC-401-001
- 13 Mountable Concrete Curb And Gutter (Typ.) -
See STD Drawing BC-601-001
- 15A Concrete Curb - See STD Drawing BC-601-001

Pavement Layer	Bridge Rehabilitation/ Replacement Approach	New Construction or Expansion
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	2.5"
Compacted Aggregate No. 53	6.0"	3.0"
INDOT Subgrade Treatment IB or IC	Yes	Yes

RECOMMENDED
FOR APPROVAL

Design Engineer
DESIGN ENGINEER

REVISED 07/05/2022

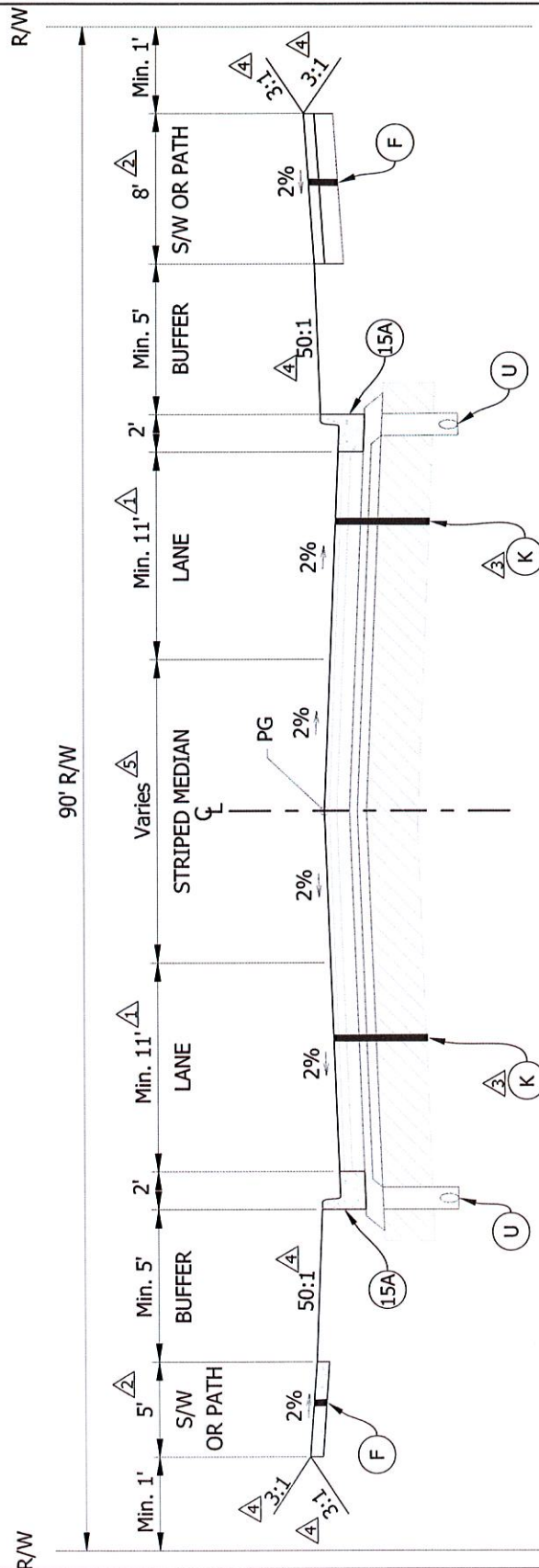


BOONE COUNTY HIGHWAY DEPARTMENT

TYPICAL URBAN MAJOR COLLECTOR STREET WITH RAISED MEDIAN CROSS SECTION



STANDARD DRAWING
NO. BC-400-004A
SHEET 1 OF 1
SCALE: NO SCALE



LEGEND:

- (F) Concrete Sidewalk - See STD Drawing BC-602-001 Or HMA Path - See STD Drawing BC-602-002
- (K) Pavement Layer
- (U) Underdrain (Typ.) - See STD Drawing BC-401-001
- (15A) Mountable Concrete Curb And Gutter (Typ.) - See STD Drawing BC-601-001



See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 11' Lane Each Direction (Min.)
Addition Of Optional Bike Lane - 5'
Addition Of Optional Parking Lane - 8' (Min.)



See Boone County Thoroughfare Plan;
Both Side Require 5' Sidewalk Or 8' - 12' Multi-use Path



Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces



Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)

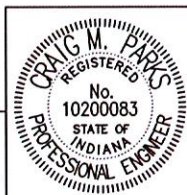


See Boone County Thoroughfare Plan;
Optional Striped Median 0' - 16'

RECOMMENDED FOR APPROVAL

[Signature]
DESIGN ENGINEER

REVISED 07/05/2022

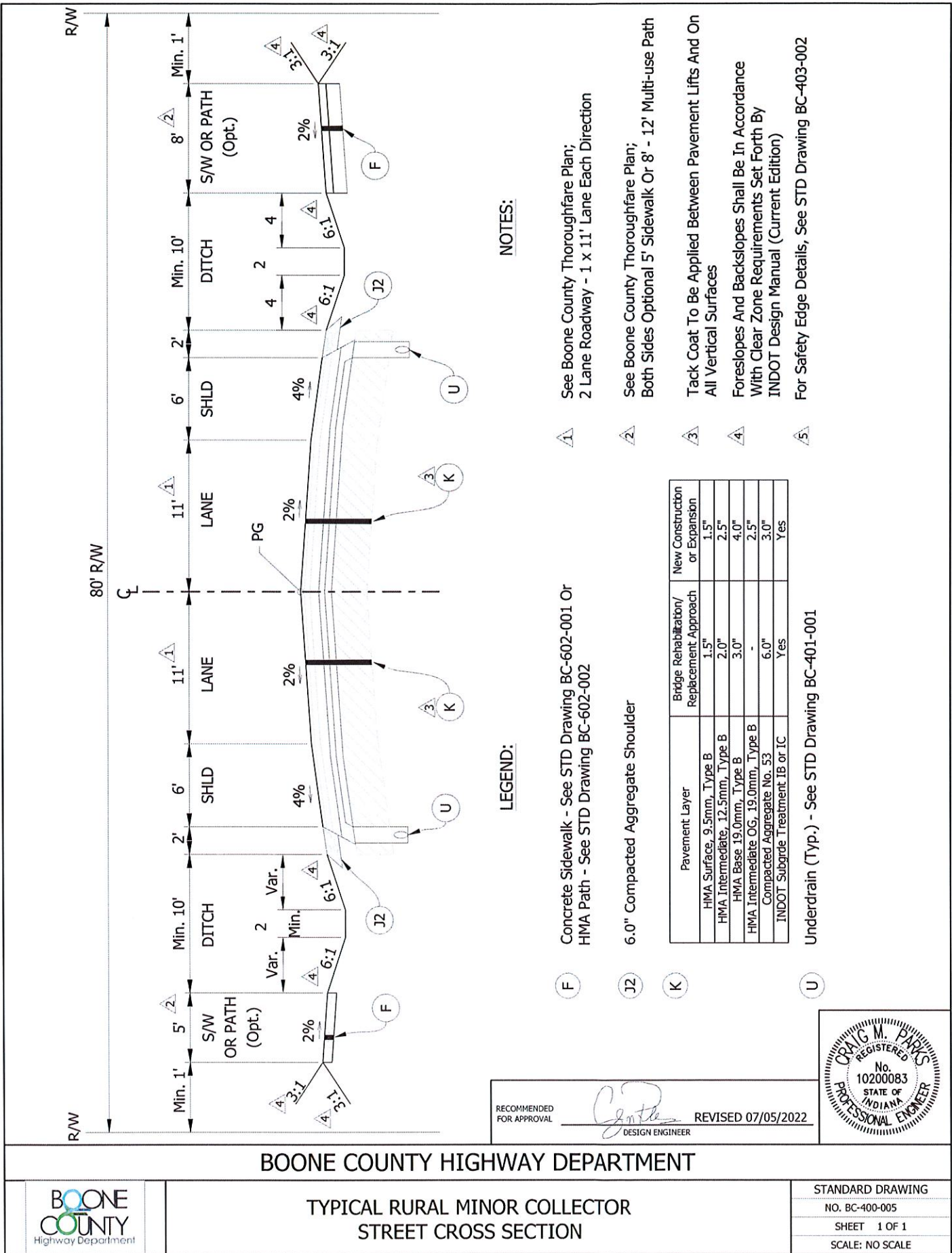


BOONE COUNTY HIGHWAY DEPARTMENT

TYPICAL URBAN MAJOR COLLECTOR STREET WITH STRIPED MEDIAN CROSS SECTION



STANDARD DRAWING
NO. BC-400-004B
SHEET 1 OF 1
SCALE: NO SCALE



NOTES:

LEGEND:

- 1 See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 11' Lane Each Direction
- 2 See Boone County Thoroughfare Plan;
Both Sides Optional 5' Sidewalk Or 8' - 12' Multi-use Path
- 3 Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
- 4 Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)
- 5 For Safety Edge Details, See STD Drawing BC-403-002

Concrete Sidewalk - See STD Drawing BC-602-001 Or
HMA Path - See STD Drawing BC-602-002

6.0" Compacted Aggregate Shoulder

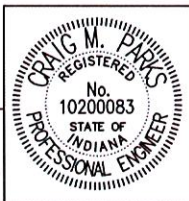
Pavement Layer	Bridge Rehabilitation/ Replacement Approach	New Construction or Expansion
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	2.5"
Compacted Aggregate No. 53	6.0"	3.0"
INDOT Subgrade Treatment IB or IC	Yes	Yes

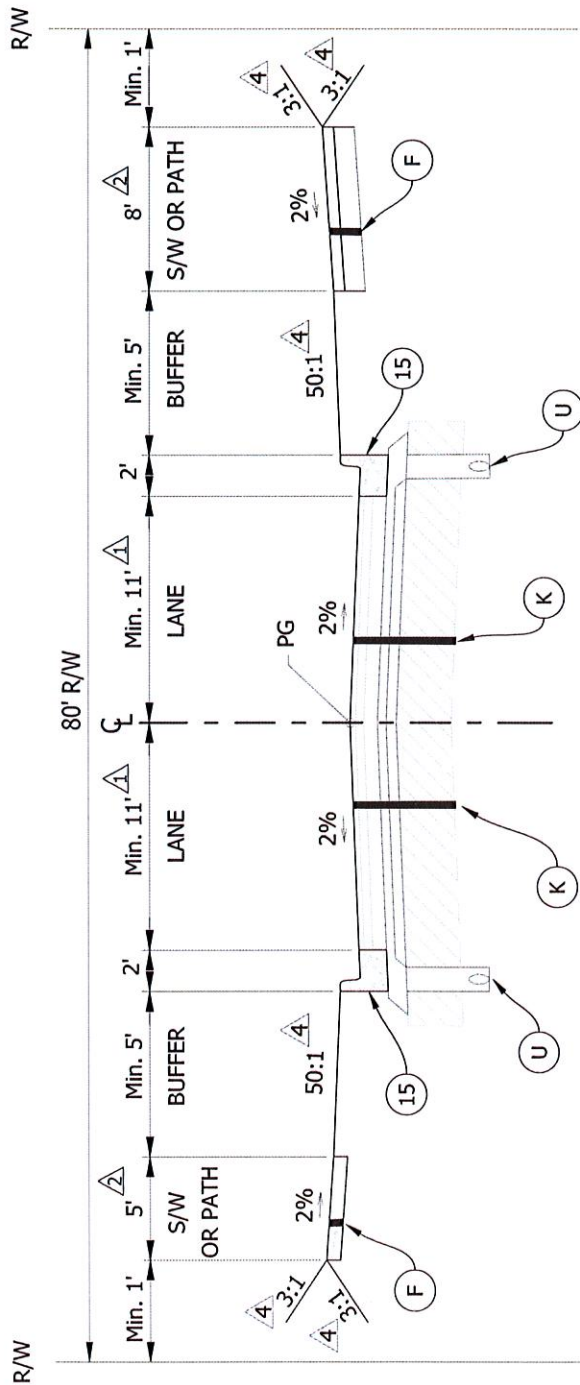
Underdrain (Typ.) - See STD Drawing BC-401-001

RECOMMENDED
FOR APPROVAL

C. J. Smith
DESIGN ENGINEER

REVISED 07/05/2022





NOTES:

- See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 11' Lane Each Direction (Min.)
Addition Of Optional Bike Lane - 4'
Addition Of Optional Parking Lane - 8' (Min.)
- See Boone County Thoroughfare Plan;
Both Sides Require 5' Sidewalk Or 8' - 12' Multi-use Path
- Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
- Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)

1

2

3

4

Concrete Sidewalk - See STD Drawing BC-602-001 Or
HMA Path - See STD Drawing BC-602-002

Pavement Layer	Bridge Rehabilitation/ Replacement Approach	New Construction or Expansion
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	2.5"
Compacted Aggregate No. 53	6.0"	3.0"
INDOT Subgrade Treatment IB or IC	Yes	Yes

Underdrain (Typ.) - See STD Drawing BC-401-001

Concrete Curb And Gutter - See STD Drawing BC-601-001

LEGEND:

F

K

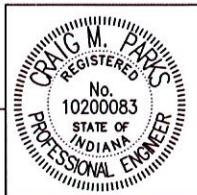
U

15

RECOMMENDED
FOR APPROVAL

[Signature]
DESIGN ENGINEER

REVISED 07/05/2022

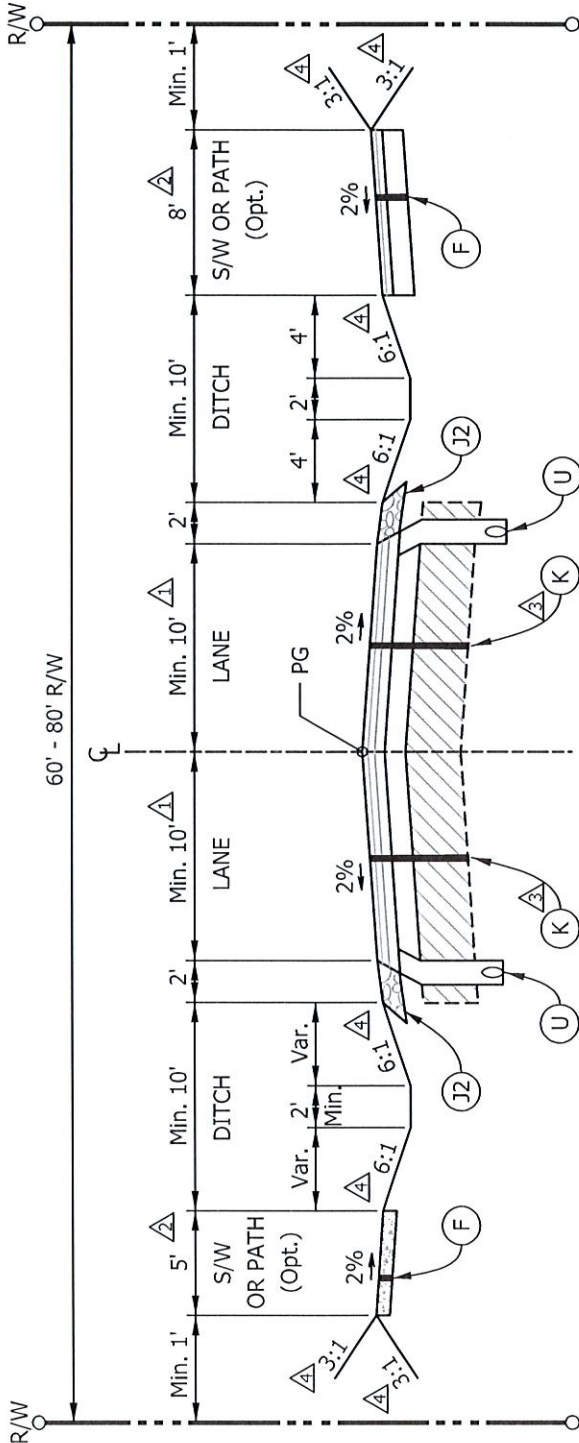


BOONE COUNTY HIGHWAY DEPARTMENT

TYPICAL URBAN MINOR COLLECTOR STREET CROSS SECTION



STANDARD DRAWING
NO. BC-400-006
SHEET 1 OF 1
SCALE: NO SCALE



LEGEND:

(F) Concrete Sidewalk - See STD Drawing BC-602-001 Or
HMA Path - See STD Drawing BC-602-002

(J2) 6.0" Compacted Aggregate Shoulder

(K) Pavement Layer

Pavement Layer	Local Streets	Residential Feeder
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base, 19.0mm, Type B	3.0"	4.0"
HMA Intermediate OG, 19.0mm, Type B	-	-
Compacted Aggregate No. 53	6.0"	8.0"
INDOT Subgrade Treatment, IB or IC	Yes	Yes

(U) Underdrain (Typ.) - See STD Drawing BC-401-001

NOTES:

(A) See Boone County Thoroughfare Plan;
2 Lane Roadway - 1 x 10' Lane Each Direction (Min.)

(A) See Boone County Thoroughfare Plan;
Both Sides Optional 5' Sidewalk Or 8' - 12' Multi-use Path

(A) Tack Coat To Be Applied Between Pavement Lifts And On
All Vertical Surfaces

(A) Foreslopes And Backslopes Shall Be In Accordance
With Clear Zone Requirements Set Forth By
INDOT Design Manual (Current Edition)

5. For Safety Edge Details, See STD Drawing BC-403-002

BOONE COUNTY HIGHWAY DEPARTMENT

TYPICAL RURAL LOCAL STREET/RESIDENTIAL FEEDER CROSS SECTION

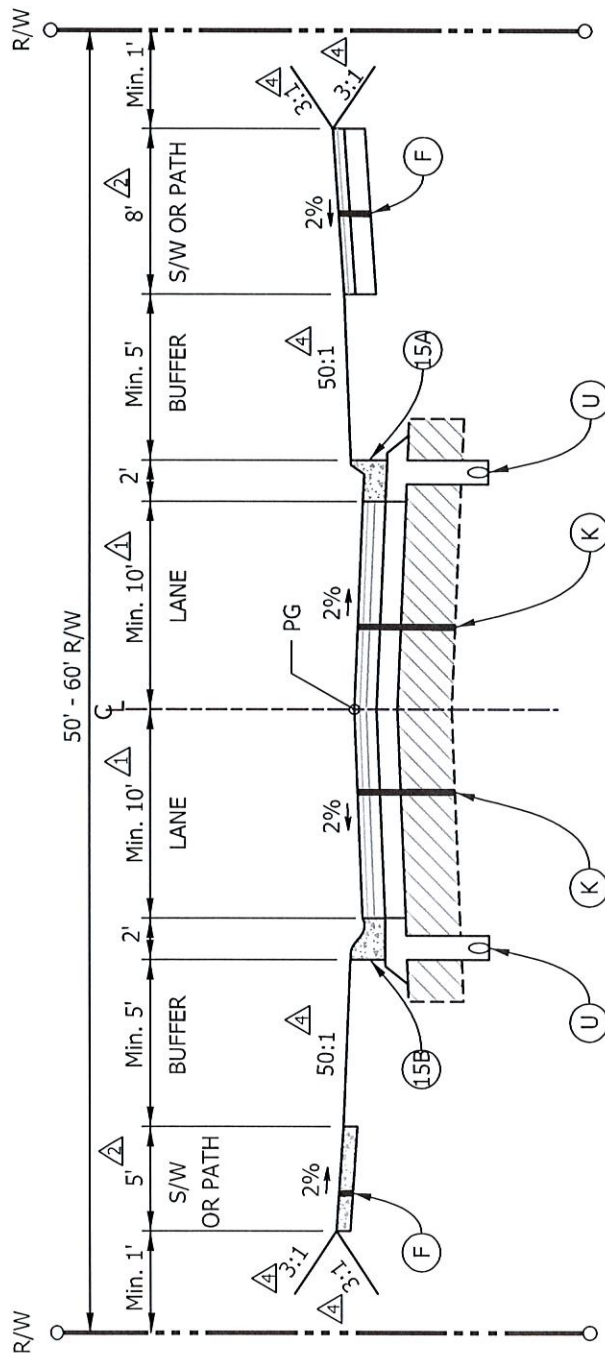


STANDARD DRAWING

NO. BC-400-007

SHEET 1 OF 1

SCALE: NO SCALE



LEGEND:

- (F) Concrete Sidewalk - See STD Drawing BC-602-001 Or HMA Path - See STD Drawing BC-602-002
- (K) Pavement Layer
- (U) Underdrain (Typ.) - See STD Drawing BC-401-001
- (15A) Mountable Concrete Curb And Gutter (Typ.) - See STD Drawing BC-601-001 Local Streets Only
- (15B) Rolled Curb (Typ.) - See STD Drawing BC-601-001 Subdivision Only

Pavement Layer	Local Streets	Residential Feeder
HMA Surface, 9.5mm, Type B	1.5"	1.5"
HMA Intermediate, 12.5mm, Type B	2.0"	2.5"
HMA Base, 19.0mm, Type B	3.0"	2.5"
HMA Intermediate OG, 19.0mm, Type B	-	2.0"
Compacted Aggregate No. 53	6.0"	8.0"
INDOT Subgrade Treatment, IB or IC	Yes	Yes

NOTES:

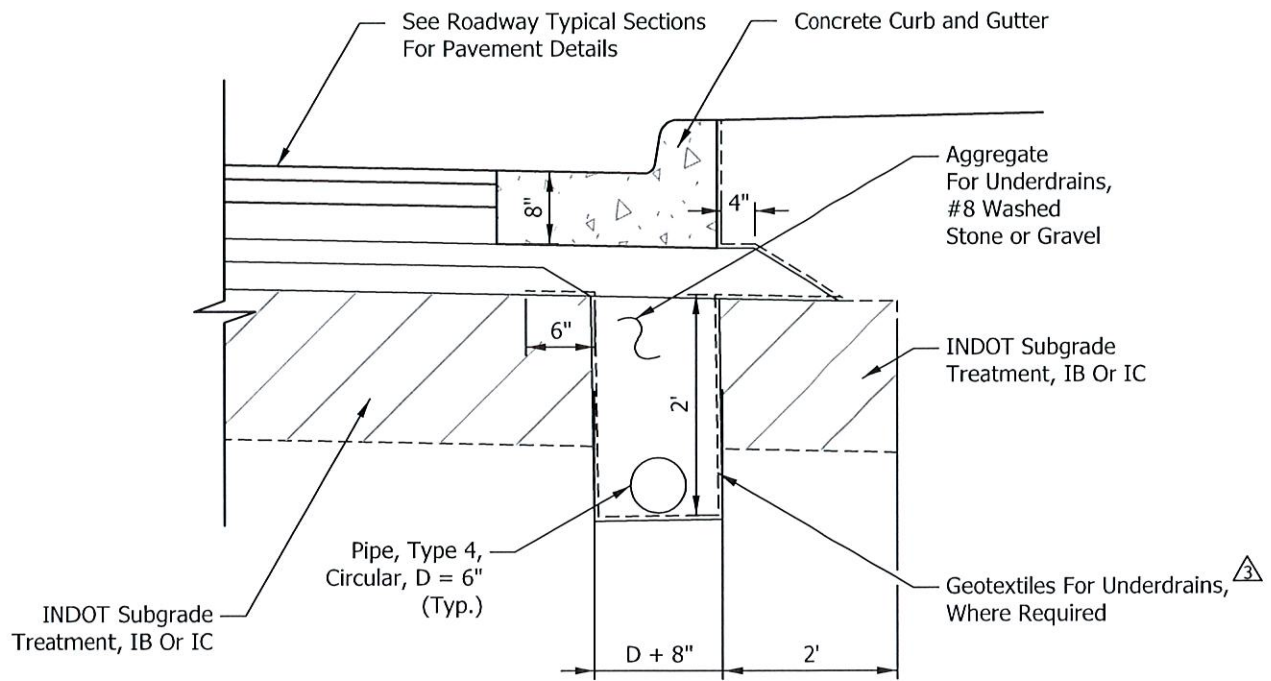
- △ See Boone County Thoroughfare Plan; 2 Lane Roadway - 1 x 10' Lane Each Direction (Min.) Addition Of Optional Bike Lane - 4' Addition Of Optional Parking Lane - 8' (Min.)
- △ See Boone County Thoroughfare Plan; Both Sides Required 5' Sidewalk Or 8' - 12' Multi-use Path
- △ Tack Coat To Be Applied Between Pavement Lifts And On All Vertical Surfaces
- △ Foreslopes And Backslopes Shall Be In Accordance With Clear Zone Requirements Set Forth By INDOT Design Manual (Current Edition)

BOONE COUNTY HIGHWAY DEPARTMENT

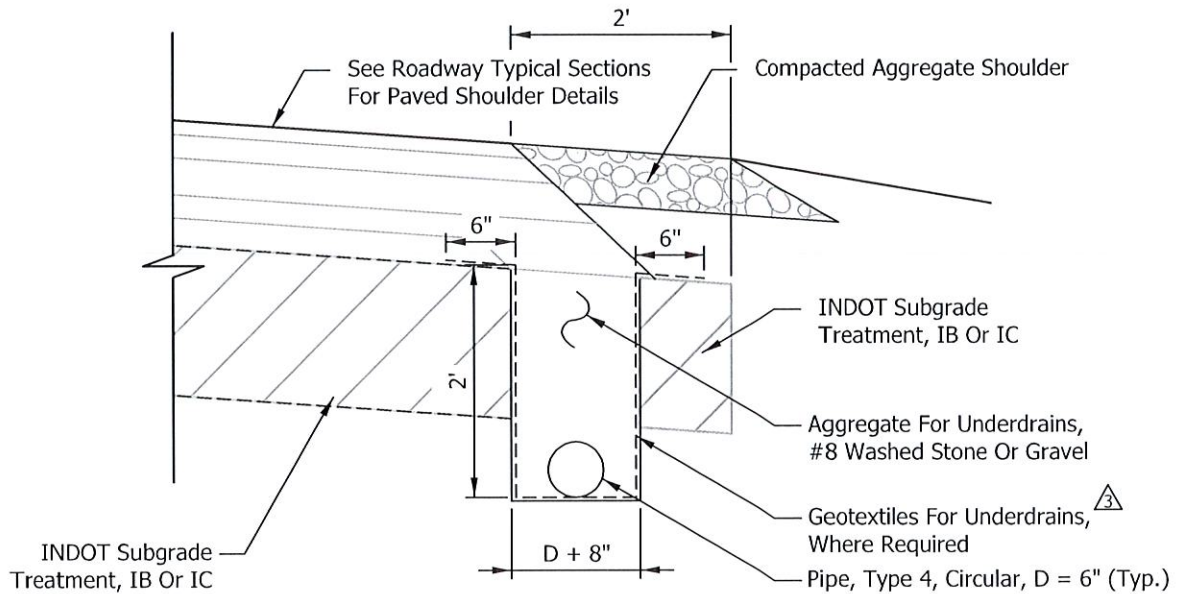
TYPICAL URBAN LOCAL STREET/RESIDENTIAL FEEDER CROSS SECTION



STANDARD DRAWING
NO. BC-400-008
SHEET 1 OF 1
SCALE: NO SCALE



CURB AND GUTTER UNDERDRAIN DETAIL



PAVED SHOULDER UNDERDRAIN DETAIL

NOTES:

1. Underdrain Outlets To Be Connected To Existing/Proposed Storm System Or Roadside Ditches As Approved By Boone County Highway Engineer
2. No Blind Taps Into Storm System Permitted

△ Per INDOT Standard Specifications

BOONE COUNTY HIGHWAY DEPARTMENT



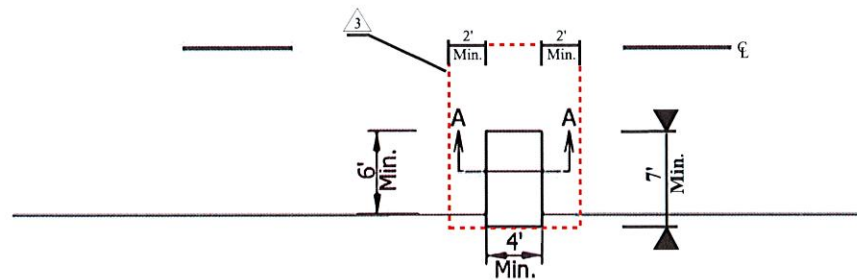
TYPICAL UNDERDRAIN DETAILS

STANDARD DRAWING

NO. BC-401-001

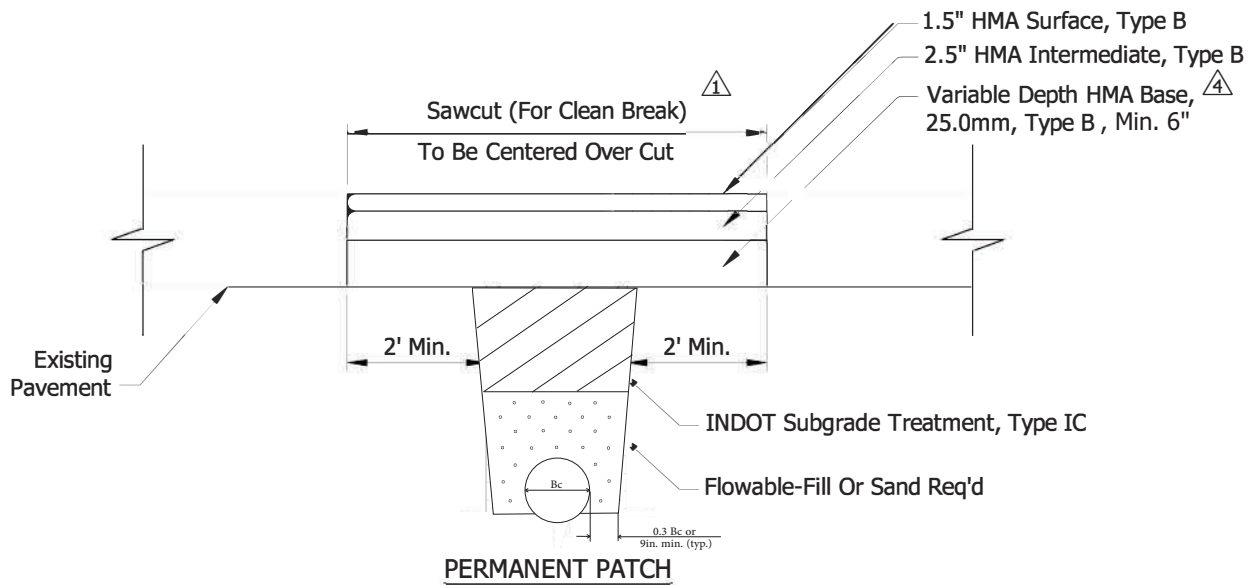
SHEET 1 OF 1

SCALE: NO SCALE



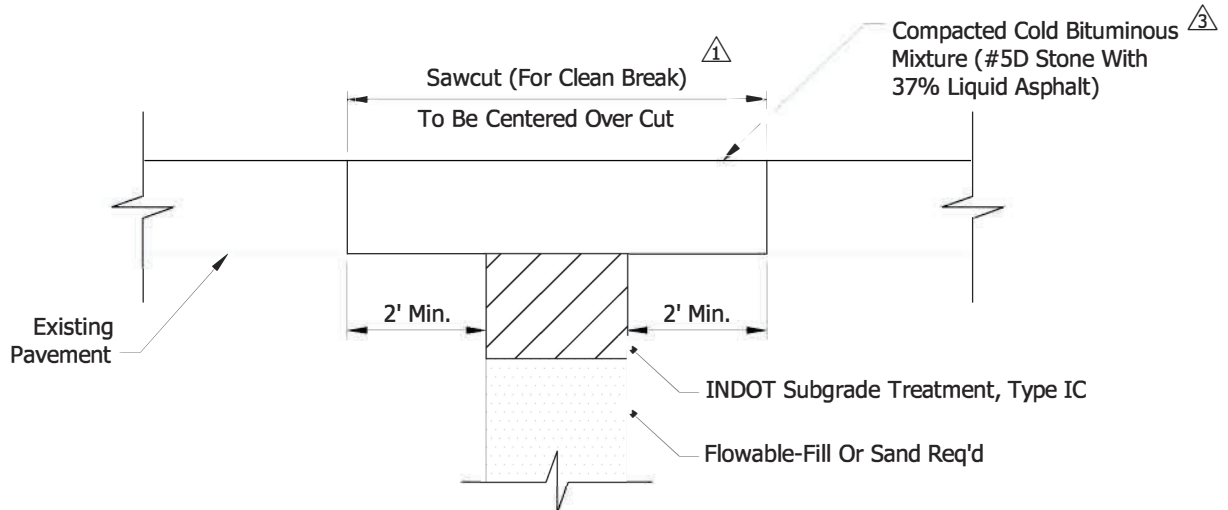
Revised May of 2024

SCALE: NO SCALE



NOTES:

1. Saw Cut And Remove Existing Pavement - Clean Break Required and Shall be Perpendicular to the Roadway
2. Contractor Shall Mill (1.5") Existing Pavement 10' In Each Direction From Trench Centerline or 2' Wider Than Excavation Limit, Whichever Is Greater, And From Edge Of Pavement To Centerline Of Pavement Or From Edge Of Pavement To Edge Of Pavement If Road Cut Extends Past Centerline Of Pavement, Then Replace With 1.5" HMA Surface, 9.5mm, And Appropriate Pavement Markings.
3. The Existing Vertical Edge Of Pavement Is To Be Tack Coated Prior To The Placement Of New Asphalt.
4. Base Layer Thickness Determined By Roadway Classification Or Existing Pavement Thickness, But Shall Be Minimum 6".



NOTES:

1. Saw Cut And Remove Existing Pavement - Clean Break Required and Shall be Perpendicular to the Roadway
2. The Existing Vertical Edge Of Pavement Is To Be Tack Coated Prior To The Placement Of New Asphalt.
3. Thickness Determined By Roadway Classification Or Existing Pavement Thickness.

REVISED JUNE 2025

BOONE COUNTY HIGHWAY DEPARTMENT

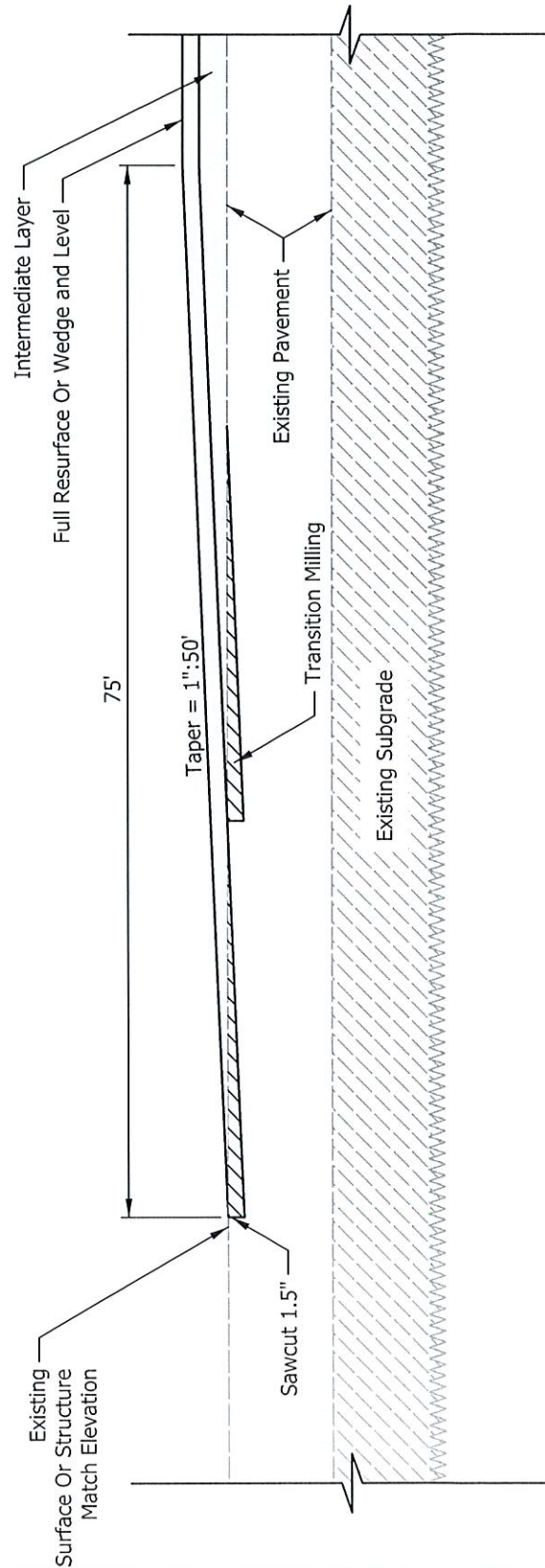
TYPICAL HMA ROAD CUT PATCH DETAIL

STANDARD DRAWING

NO. BC-402-002

SHEET 1 OF 1

SCALE: NO SCALE



BOONE COUNTY HIGHWAY DEPARTMENT

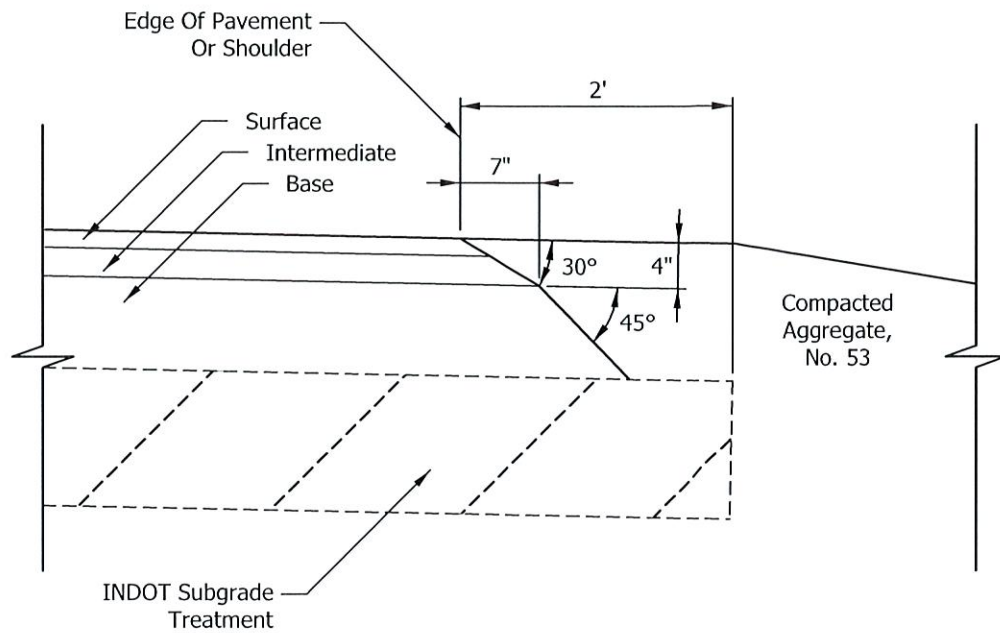
TYPICAL TERMINUS TRANSITION

STANDARD DRAWING

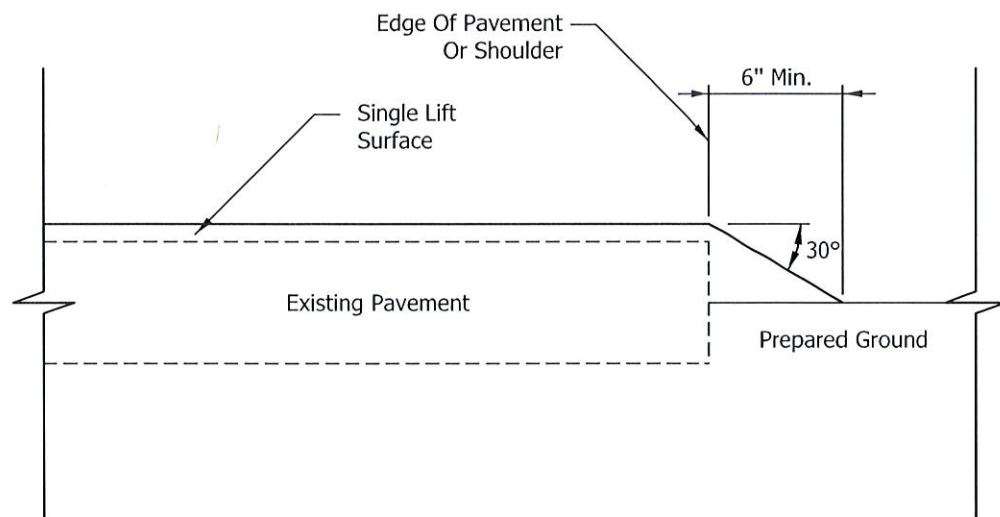
NO. BC-403-001

SHEET 1 OF 1

SCALE: NO SCALE



HMA SAFETY EDGE



SINGLE LIFT SURFACE SAFETY EDGE

BOONE COUNTY HIGHWAY DEPARTMENT



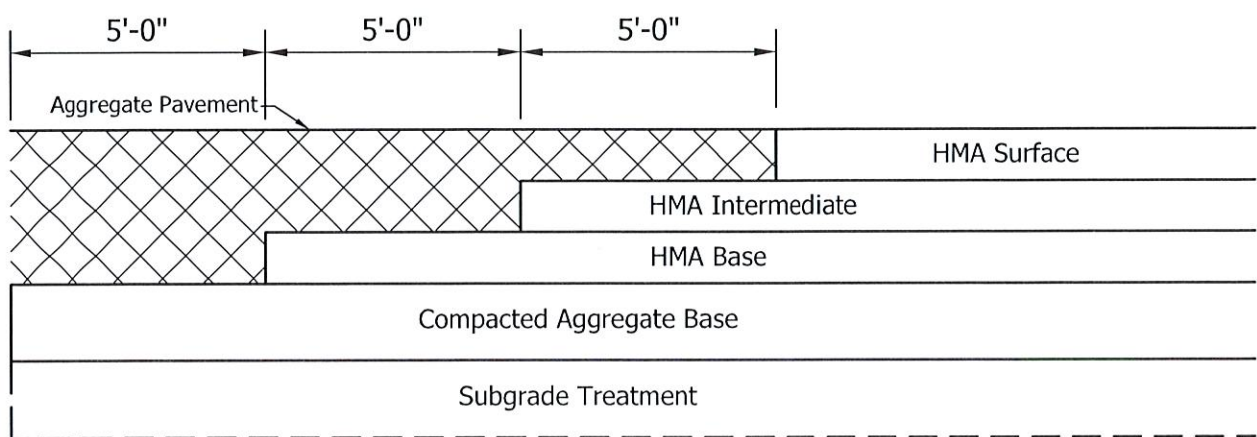
TYPICAL SAFETY EDGE DETAILS

STANDARD DRAWING

NO. BC-403-002

SHEET 1 OF 1

SCALE: NO SCALE



REVISED MAY 2024

BOONE COUNTY HIGHWAY DEPARTMENT

AGGREGATE TO HMA PAVEMENT TRANSITION DETAIL



STANDARD DRAWING
BC-403-003
SHEET 1 OF 1
SCALE: NO SCALE