MORGAN COUNTY HIGHWAY DEPARTMENT

TECHNICAL DESIGN STANDARDS







4 Design files\02 DGN\Plans\BC_Title sheet.dgn

THESE MORGAN COUNTY HIGHWAY DEPARTMENT STANDARD DRAWINGS ARE APPROVED ON 1-16-2024 BY:

THE MORGAN COUNTY HIGHWAY DEPARTMENT:

BY: Nustin Schreck 2/20/24 Date Justin Schneck, PE, County Engineer

THE MORGAN COUNTY BOARD OF COMMISSIONERS:

ganss

Bryan Collier, Commissioner

Don Adams, Commissioner

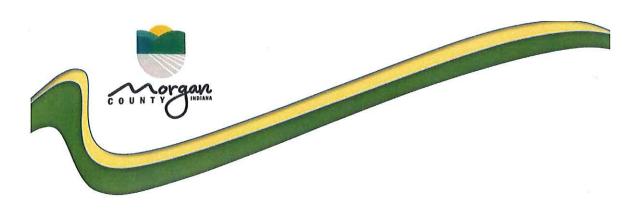
Kenny Hale, Commissioner

ATTEST:

Linda Pruitt, County Auditor

Date

ALL PREVIOUS STANDARD DRAWINGS ARE HEREBY REPEALED AND REPLACED WITH THESE STANDARD DRAWINGS, EFFECTIVE 1-16-2024.



MORGAN COUNTY HIGHWAY DEPARTMENT 5400 BLUE BLUFF RD MARTINSVILLE, INDIANA 46151

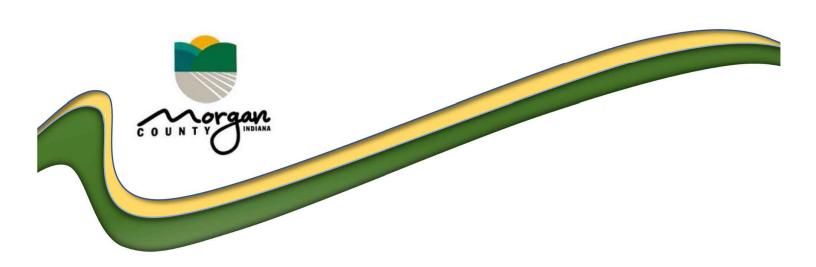
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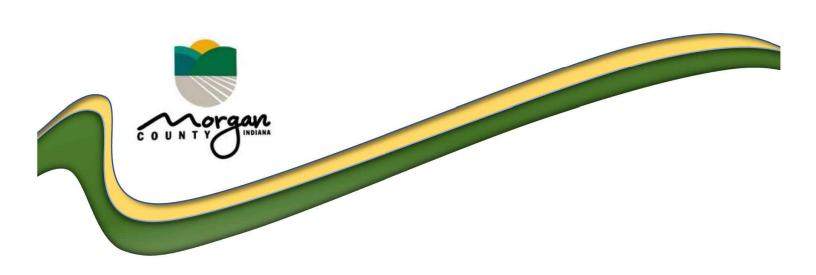
INDEX OF MORGAN COUNTY STANDARDS 100 SERIES STANDARD DRAWINGS GENERAL PROVISIONS

- 1. All construction within Morgan County public right-of-way shall follow these standards while also being in accordance with the latest versions of the Indiana Design Manual, Indiana Department of Transportation (INDOT) Standard Specifications, INDOT Standard Drawings, and Indiana Manual on Uniform Traffic Control Devices for Streets and Highways. Any deviation shall be brought to the attention of the County Engineer, or their appointed representative, for review and approval before construction commences.
- 2. Technical Design Standards shall be used in conjunction with the Unified Development Ordnance, Thoroughfare Plan, Comprehensive Plan and other current County documents. Any discrepancy or deviation from these standards or County Documents shall be brought to the attention of the County Engineer, or their appointed representative, for review and approval.



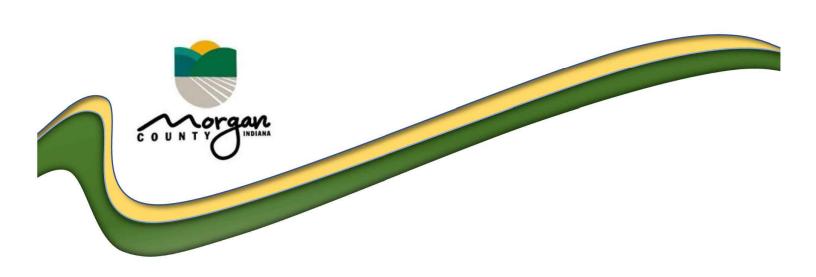
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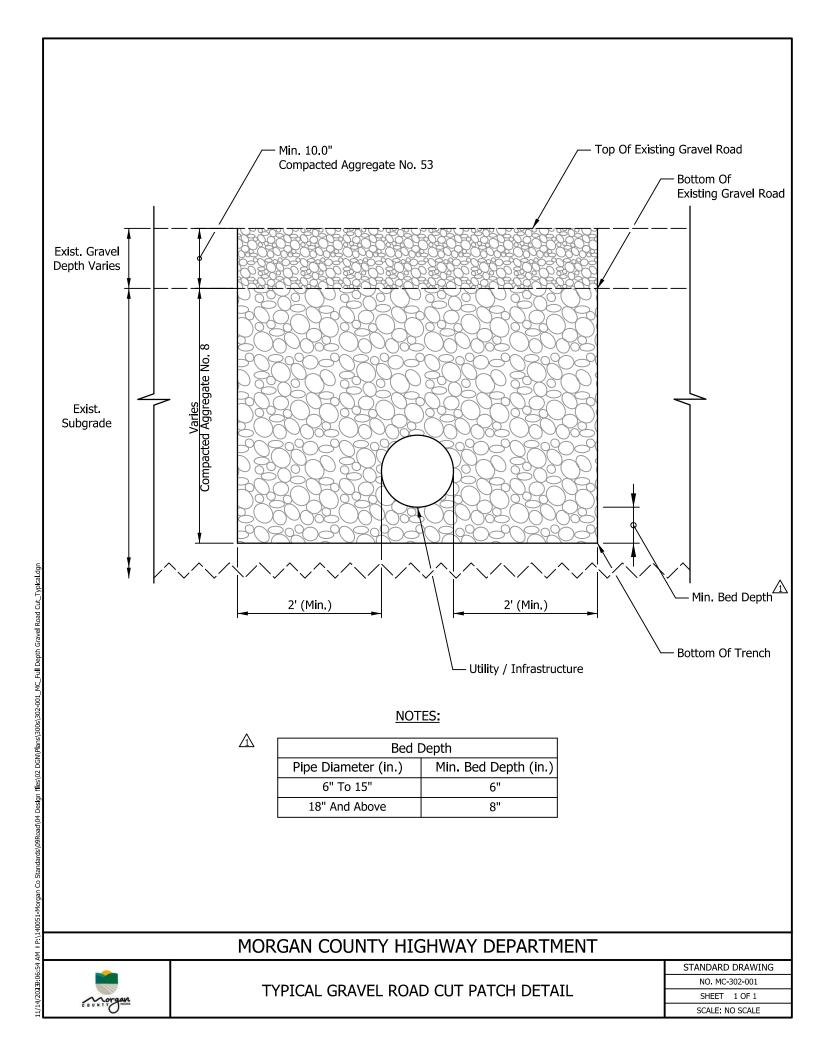
All construction involving clearing, grading, excavation, fill, stormwater management, subgrade, backfill, and other related items shall be in accordance with the 200 Division of the INDOT Standard Drawings and Specifications.



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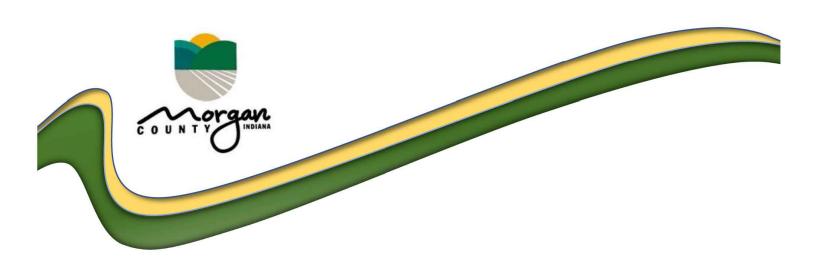
Typical Gravel Road Cut Patch Detail_____MC-302-001





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DEPARTMENT

TYPICAL RURAL ARTERIAL STREET

STANDARD DRAWING

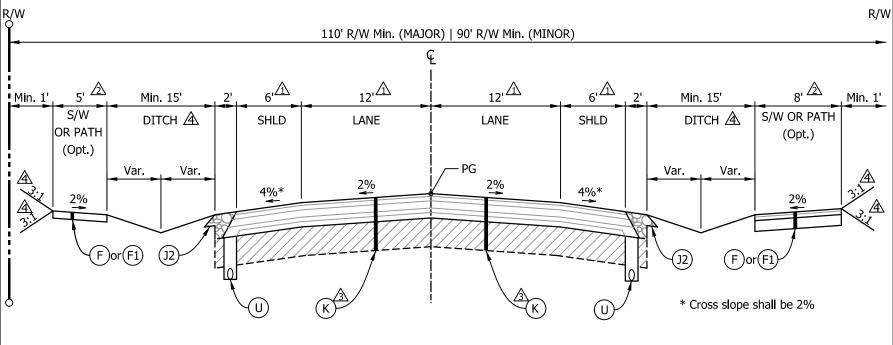
NO. MC-400-001

SCALE: NO SCALE SHEET 1 OF 1

CROSS

SECTION

MORGAN COUNTY **HIGHWAY**



(F) Concrete Sidewalk - See STD Drawing MC-602-001

LEGEND:

- HMA Path See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III
- (J2) 6.0" Compacted Aggregate Shoulder
- (K) 1.5" HMA Surface, 9.5mm, Type B, On 2.5" HMA Intermediate, 19.0mm, Type B, On 4.0" HMA Base, 25.0mm, Type B, On 2.5" HMA Intermediate OG, 19.0mm, Type B, On 3.0" HMA Base, 19.0mm, Type B, On INDOT Subgrade Treatment, IBC or IC
- (U) Underdrain (Typ.) - See STD Drawing MC-401-001

- See Morgan County Thoroughfare Plan;
 - 2 Lane Roadway 1 x 12' Lane Each Direction

NOTES:

- 4 Lane Roadway 2 x 12' Lanes Each Direction
- 4' Paved Shoulder Minor*
- 6' Paved Shoulder Major
- See Morgan County Thoroughfare Plan; Both Sides Optional 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)
- For Safety Edge Details, See STD Drawing MC-403-002

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

STANDARD DRAWING NO. MC-400-002A

SCALE: NO SCALE SHEET 1 OF 1

Min. 11' 1 Min. 1' Min. 11' Min. 2' Min. 1' Min. 1' Min. 8' Min. 2' Varies Min. 8' S/W RAISED MEDIAN **BUFFER BUFFER** LANE LANE OR PATH 4 <u>50:</u>1 MORGAN COUNTY <u>5</u>0:1 PG PG <u>50:</u>1 <u>50</u>:1 2% 2% F)or(F1) (13) **HIGHWAY** LEGEND: NOTES:

110' R/W Min. (MAJOR) | 90' R/W Min. (MINOR)

- (F) Concrete Sidewalk - See STD Drawing MC-602-001
- HMA Path See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate, No. 53 On Typ. INDOT Subgrade Treatment Type III
- (K) 1.5" HMA Surface, 9.5mm, Type B, On 2.5" HMA Intermediate, 19.0mm, Type B, On 4.0" HMA Base, 25.0mm, Type B, On 2.5" HMA Intermediate OG, 19.0mm, Type B, On 3.0" HMA Base, 19.0mm, Type B, On INDOT Subgrade Treatment, IBC or IC
- (U) Underdrain (Typ.) - See STD Drawing MC-401-001
- (13) Concrete Curb - See STD Drawing MC-601-001
- (15) Concrete Curb And Gutter - See STD Drawing MC-601-001

See Morgan 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'

(15)

 (F)

R/W

Min. 1'

ج 🛦

S/W OR PATH

- See Morgan 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)
- See Morgan County Thoroughfare Plan; Optional Raised Median 3' - 14' When Median < 3' Use STD Drawing MC-400-002B

MORGAN COUNTY HIGHWAY DEPARTMENT

TYPICAL URBAN ARTERIAL STREET WITH

STRIPED MEDIAN CROSS

SECTION

STANDARD DRAWING
NO. MC-400-002B
SHEET 1 OF 1
SCALE: NO SCALE

R/W R/W 110' R/W Min. (MAJOR) | 90' R/W Min. (MINOR) Min. 11' <u>M</u>in. 11' Min. 2' Min. 8' Min. 2' Varies Min. 8' Min. 1' Min. 1' S/W **BUFFER** LANE STRIPED MEDIAN LANE **BUFFER** S/W OR PATH OR PATH 3:7 PG <u>50:1</u> 50:1 2% 2% 2% 2% 2% F)or(F1) (15 [15] F)or

F Concrete Sidewalk - See STD Drawing MC-602-001

LEGEND:

- HMA Path See STD Drawing MC-602-002
 1.5" HMA Surface, 9.5mm On
 2.5" HMA Intermediate, 19.0mm On
 6.0" Compacted Aggregate. No. 53 On
 Typ. INDOT Subgrade Treatment Type III
- (K) 1.5" HMA Surface, 9.5mm, Type B, On 2.5" HMA Intermediate, 19.0mm, Type B, On 4.0" HMA Base, 25.0mm, Type B, On 2.5" HMA Intermediate OG, 19.0mm, Type B, On 3.0" HMA Base, 19.0mm, Type B, On INDOT Subgrade Treatment, IBC or IC
- (U) Underdrain (Typ.) See STD Drawing MC-401-001
- (15) Concrete Curb And Gutter See STD Drawing MC-601-001

See Morgan 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'

NOTES:

- See Morgan 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)
- See Morgan County Thoroughfare Plan; Optional Striped Median 0' - 14'

(U)

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

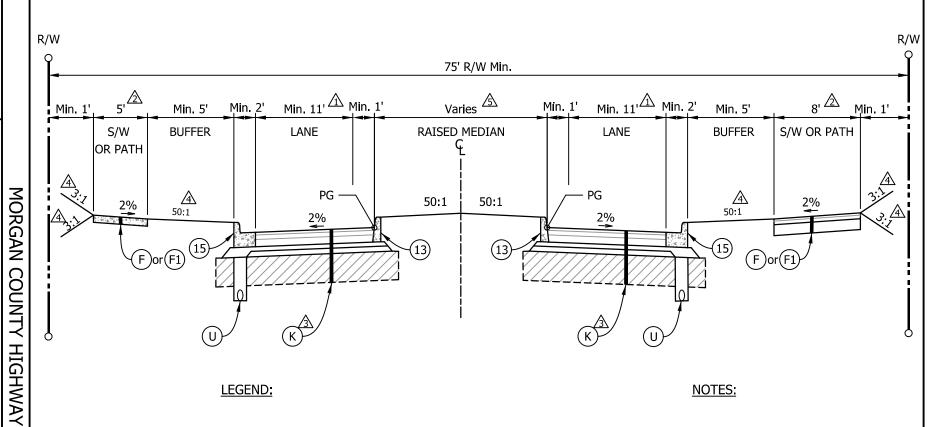
Used And 6'-10' Where Path Is Used To

Utilize Full 1/2 R\W Width

STREET WITH RAISED TYPICAL URBAN MAJOR COLLECTOR MEDIAN CROSS SECTION

DEPARTMENT

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



(F) Concrete Sidewalk - See STD Drawing MC-602-001

LEGEND:

- HMA Path See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III
- (K) 1.5" HMA Surface, 9.5mm, Type B, On 2.5" HMA Intermediate, 19.0mm, Type B, On 4.0" HMA Base, 25.0mm, Type B, On 2.5" HMA Intermediate OG, 19.0mm, Type B, On 3.0" HMA Base, 19.0mm, Type B, On INDOT Subgrade Treatment, IBC or IC
- (u) Underdrain (Typ.) - See STD Drawing MC-401-001
- (15)Concrete Curb And Gutter - See STD Drawing MC-601-001
- (13)Concrete Curb - See STD Drawing MC-601-001

NOTES:

- See Morgan County Thoroughfare Plan; 2 Lane Roadway - 1 x 11' Lane Each Direction (Min.) Addition Of Optional Bike Lane - 4' Addition Of Auxiliary Lane - 11' (Min.) Addition of Optional Parking Lane - 9'
- See Morgan County Thoroughfare Plan; Both Sides Require 5' Sidewalk Or 8' - 10' 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 Morgan County Thoroughfare Plan; Optional Raised Median 3' - 10' When Median < 3' Use STD Drawing MC-400-004B

(15)

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



TYPICAL URBAN MINOR COLLECTOR STREET CROSS SECTION

STANDARD DRAWING NO. MC-400-006

SCALE: NO SCALE SHEET 1 OF 1



MORGAN COUNTY **HIGHWAY DEPARTMENT**

65' R/W Min. 8' 🖄 <u>Min</u>. 11' Min. 11' Min. 2' Min. 1' Min. 5' Min. 2' Min. 5' Min. 1 S/W S/W OR PATH **BUFFER** LANE LANE **BUFFER** OR PATH 4 PG 50:1 50:1 2% 2% (15)(15) F)or(F1) F)or LEGEND: NOTES:

- (F) Concrete Sidewalk - See STD Drawing MC-602-001
- HMA Path See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III
- (K) 1.5" HMA Surface, 9.5mm, Type B, On 2.5" HMA Intermediate, 19.0mm, Type B, On 4.0" HMA Base, 25.0mm, Type B, On 2.5" HMA Intermediate OG, 19.0mm, Type B, On 3.0" HMA Base, 19.0mm, Type B, On INDOT Subgrade Treatment, IBC or IC
- (U) Underdrain (Typ.) - See STD Drawing MC-401-001
- (15)Concrete Curb And Gutter - See STD Drawing MC-601-001

See Morgan County Thoroughfare Plan; 2 Lane Roadway - 1 x 11' Lane Each Direction (Min.) Addition Of Optional Bike Lane - 4' Addition Of Optional Parking Lane - 9' (Min.)

R/W

- See Morgan 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)

TYPICAL RURAL LOCAL STREET/RESIDENTIAL FEEDER **CROSS** SECTION

NO. MC-400-007 SCALE: NO SCALE SHEET 1 OF 1

MORGAN COUNTY **HIGHWAY DEPARTMENT**

(K)

(J2)

STANDARD DRAWING

60' R/W Min. Min. 11' Min. 11' Min. 11' 🙆 Min. 8' 🙆 Min. 1' DITCH A DITCH 🕸 S/W **LANE** S/W OR PATH LANE (Opt.) OR PATH (Opt.) <u>3</u>;,7 PG Var. Var. Var. Var. 2% 2% 2% F)or(F1) (F)or(F:

(F) Concrete Sidewalk - See STD Drawing MC-602-001

LEGEND:

HMA Path - See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III

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, IBC or IC	Yes	Yes

6.0" Compacted Aggregate Shoulder

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

NOTES:

R/W

Min. 1'

- See Morgan County Thoroughfare Plan; 2 Lane Roadway - 1 x 11' Lane Each Direction (Min.)
- See Morgan County Thoroughfare Plan; Both Sides Optional 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)
- For Safety Edge Details, See STD Drawing MC-403-002 5.
- Ditch Shall Be 11' Where Sidewalks Are Used And 6'-8' Where Path Is Used To Utilize Full 1/2 R\W Width

TYPICAL URBAN LOCAL STREET/RESIDENTIAL FEEDER **CROSS** SECTION **DEPARTMENT**

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

MORGAN COUNTY **HIGHWAY**

(K)

50' R/W Min. 5' Min. 10' 8' <u>\$</u> <u>Mi</u>n. 10'[⚠] Min. 1' Min. 5' Min. 5' Min. 1 S/W OR PATH S/W **BUFFER** LANE LANE **BUFFER** OR PATH PG <u> 4</u> 2% 50:1 50:1 2% 2% (15A)or (15B) (15B) or (15A) LEGEND:

- (F) Concrete Sidewalk - See STD Drawing MC-602-001
- HMA Path See STD Drawing MC-602-002 (F1) 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III

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, IBC or IC	Yes	Yes

(U)Underdrain (Typ.) - See STD Drawing MC-401-001 (15A) Mountable Concrete Curb And Gutter (Typ.) - See STD Drawing MC-601-001 Local Streets Only

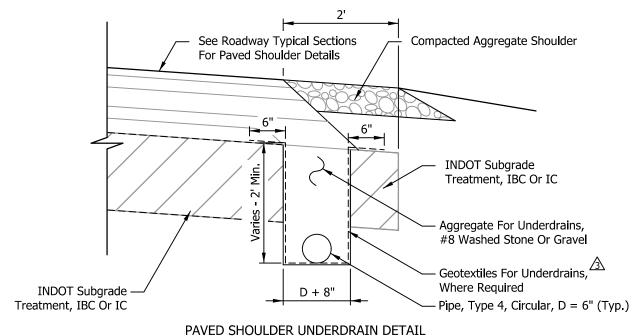
R/W

(15B) Rolled Curb (Typ.) - See STD Drawing MC-601-001 Subdivision Only

NOTES:

- See Morgan County Thoroughfare Plan; 2 Lane Roadway - 1 x 10' Lane Each Direction (Min.) Addition Of Optional Bike Lane - 4' Addition Of Optional Parking Lane - 9' (Min.)
- See Morgan 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)

CURB AND GUTTER UNDERDRAIN DETAIL



NOTES:

- 1. Underdrain Outlets To Be Connected To Existing/Proposed Storm System Or Roadside Ditches As Approved By Morgan County Highway Engineer
- 2. No Blind Taps Into Storm System Permitted
- A Per INDOT Standard Specifications

MORGAN COUNTY HIGHWAY DEPARTMENT

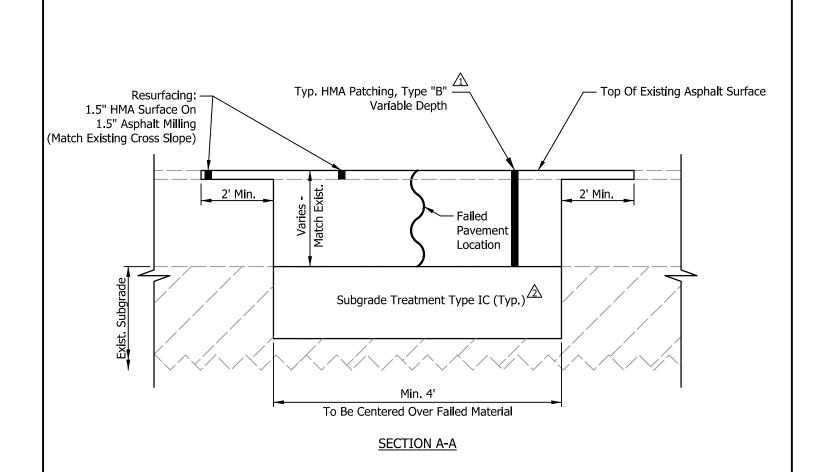


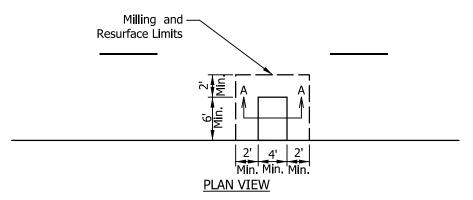
TYPICAL UNDERDRAIN DETAILS

STANDARD DRAWING

NO. MC-401-001

SHEET 1 OF 1





Typ. HMA Patching To Consist Of:
1.5" HMA Surface, 9.5mm Type B on
1.5" Surface Milling, on
Variable Depth HMA Base, 25.0mm, Type B
As Needed To Match Existing Mainline Pavement Thickness
Mill And Remove Existing Pavement - Clean Break Required
Place Patch Prior To Milling And Resurfacing

INDOT Subgrade Treatment Type IC May Be Substituted With The Following; Excavate And Replace 12" Of The Subgrade With Flowable - Fill

MORGAN COUNTY HIGHWAY DEPARTMENT



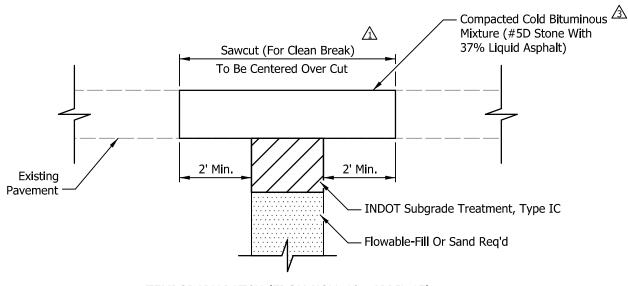
TYPICAL FULL DEPTH PATCH DETAIL

STANDARD DRAWING
NO. MC-402-001

NO. MC-402-001 SHEET 1 OF 1

NOTES:

- △ Saw Cut And Remove Existing Pavement Clean Break Required
- 2. Contractor Shall Mill (1.5") Existing Pavement 10' In Each Direction From Trench Centerline From Edge Of Pavement To Edge Of Pavement, 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.
- Base Layer Thickness Determined By Roadway Classification Or Existing Pavement Thickness.



TEMPORARY PATCH (FROM NOV. 10 - APRIL 15)

NOTES:

- △ Saw Cut And Remove Existing Pavement Clean Break Required
- 2. The Existing Vertical Edge Of Pavement Is To Be Tack Coated Prior To The Placement Of New Asphalt.
- A Thickness Determined By Roadway Classification Or Existing Pavement Thickness.

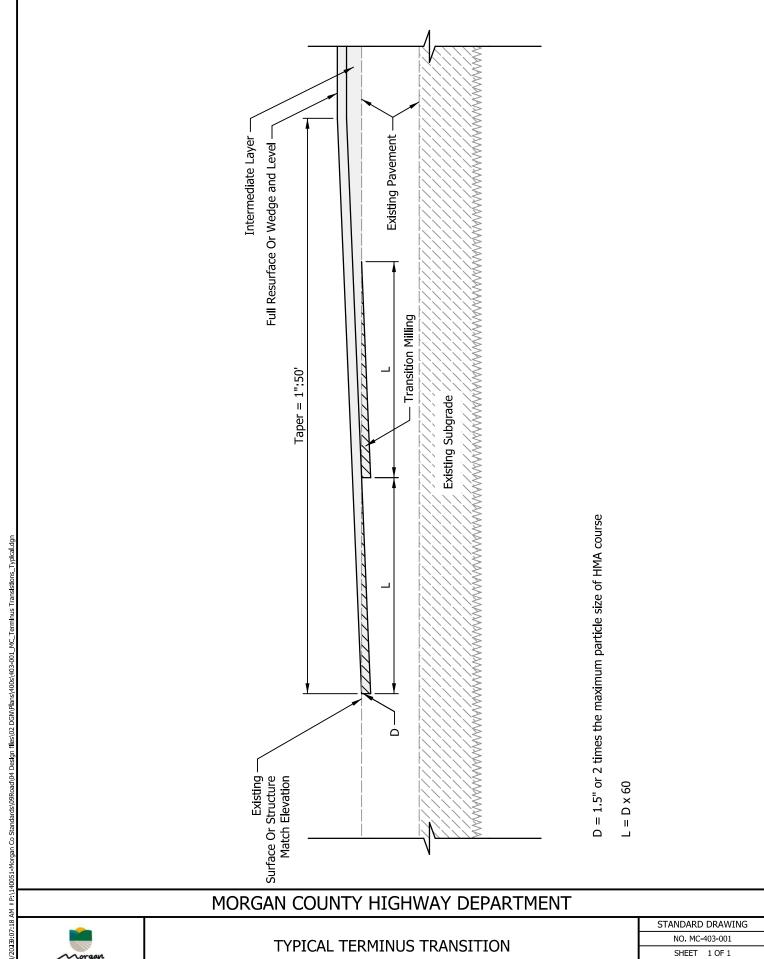
MORGAN COUNTY HIGHWAY DEPARTMENT

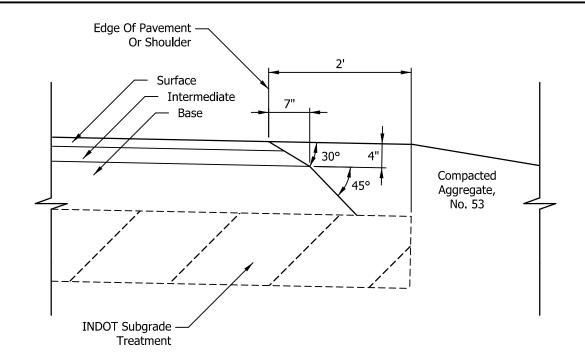


TYPICAL HMA ROAD CUT PATCH DETAIL

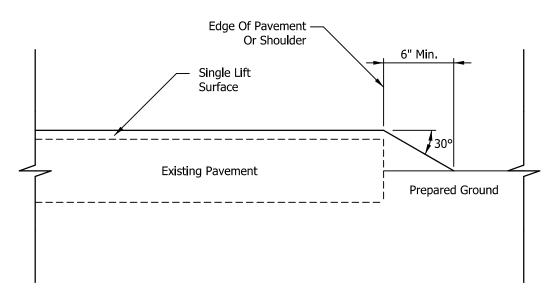
STANDARD DRAWING
NO. MC-402-002

SHEET 1 OF 1
SCALE: NO SCALE





HMA SAFETY EDGE



SINGLE LIFT SURFACE SAFETY EDGE

MORGAN COUNTY HIGHWAY DEPARTMENT



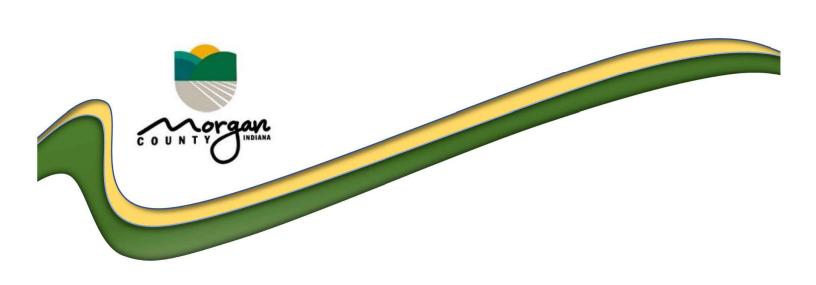
TYPICAL SAFETY EDGE DETAILS

STANDARD DRAWING
NO. MC-403-002

SHEET 1 OF 1

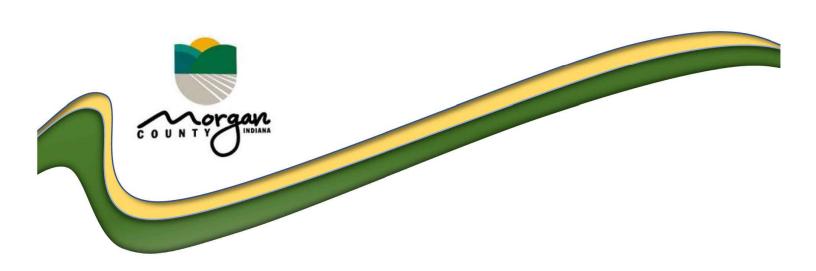
INDEX OF MORGAN COUNTY STANDARDS 500 SERIES STANDARD DRAWINGS CONCRETE PAVEMENTS

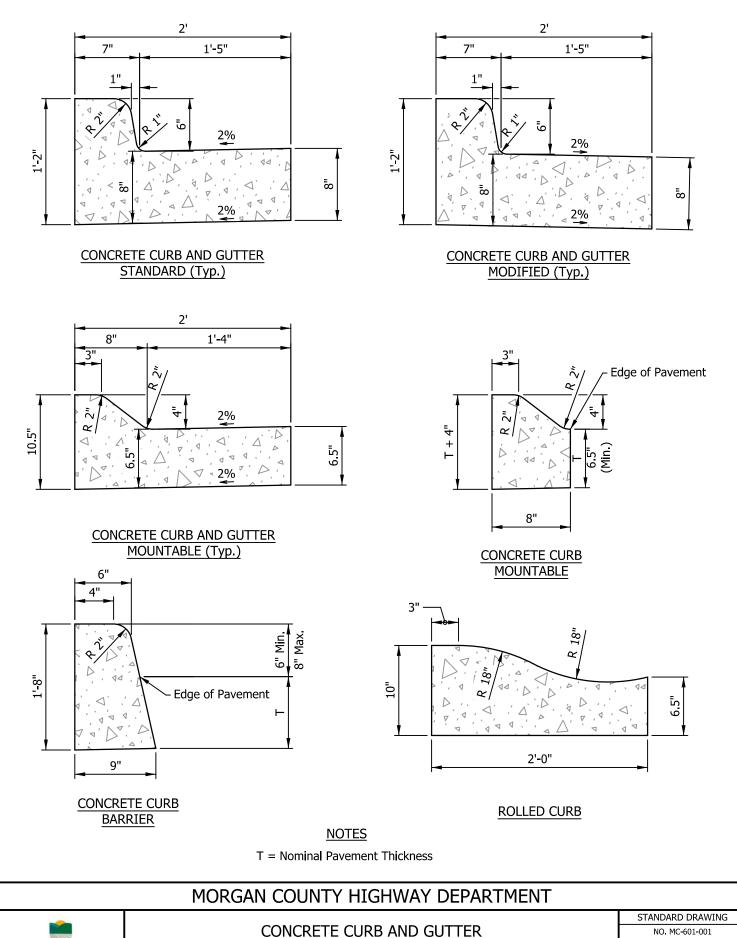
NOT USED



INDEX OF MORGAN COUNTY STANDARDS 600 SERIES STANDARD DRAWINGS INCIDENTAL CONSTRUCTION

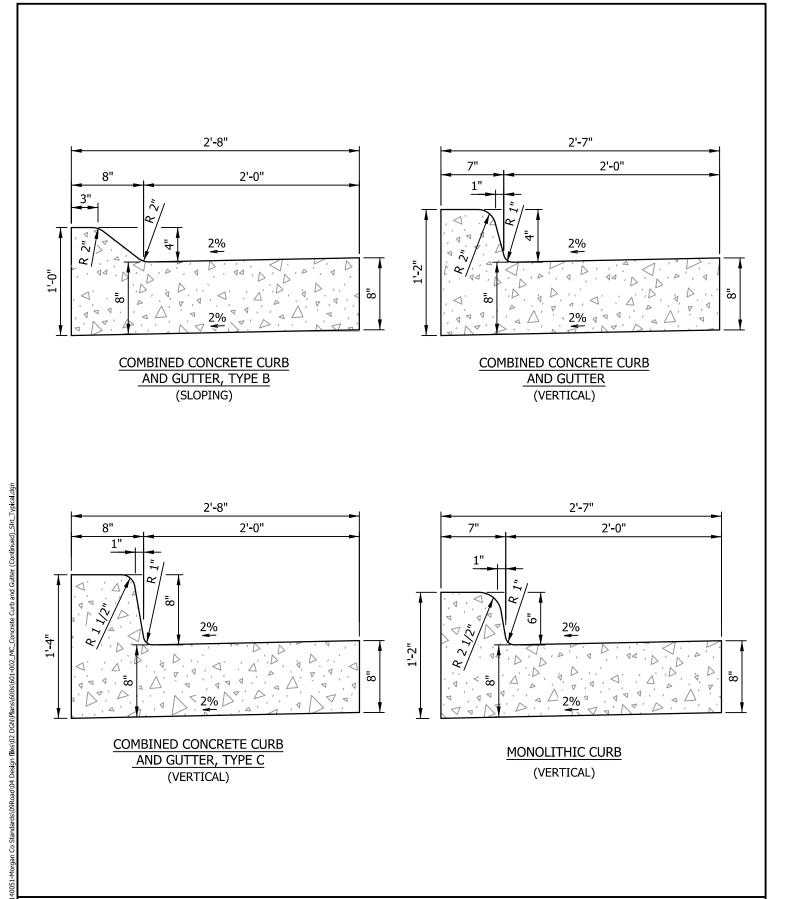
Typical Concrete Curb and Gutter and Concrete Curb	MC-601-001
Typical Concrete Curb and Gutter(Continued)	_ MC-601-002
Typical Concrete Sidewalk Detail	MC-602-001
Typical HMA Multi-Use Path	MC-602-002
Typical Subdivision Residential Drive	MC-603-001
Typical Urban Commercial Drive	MC-603-002
Typical Field Entrance	MC-603-003
Typical Rural Residential Drive	MC-603-004
Typical Rural Commercial Drive	MC-603-005
Typical Subdivision Entrance	MC-603-006
Typical Acceleration/Deceleration Lane	MC-603-007
Typical Mailbox Approach	MC-603-008
Typical Culvert Detail With Open Ditches	MC-603-009
Typical Cul-De-Sac	MC-604-001
Typical Temporary Cul-De-Sac	_MC-604-002





AND CURB

SHEET 1 OF 1



MORGAN COUNTY HIGHWAY DEPARTMENT



CONCRETE CURB AND GUTTER AND CURB (CONTINUED)

NO. MC-601-002
SHEET 1 OF 1
SCALE: NO SCALE

MORGAN COUNTY HIGHWAY DEPARTMENT

NO. MC-602-001
SHEET 1 OF 1

TYPICAL CONCRETE SIDEWALK

48' Between Sidewalk Expansion Joints

6 Contraction Joints @ 6' Each = 36' (Typ.)

Expansion Joint

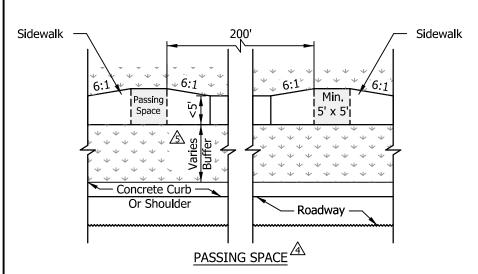
Sidewalk

Existing Utility Pole Or Other Protruding Object Separated With 1/2"

Expansion Material

SIDEWALK PLAN VIEW

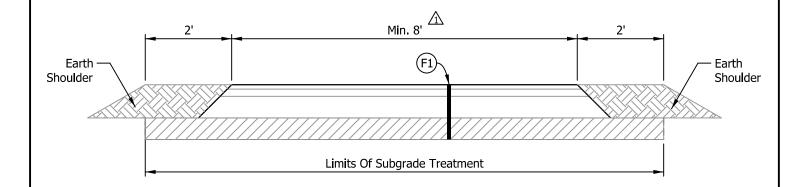
NOTES:



- 1. All Slopes Are Absolute Rather Than Relative To The Sidewalk Or Roadway Grade And Are Given As Maximums. Slopes At Least 0.50% Less Than The Maximum Are Preferred.
- 2. The Grade Of The Sidewalk Is Measured In The Direction Of Pedestrian Travel And Shall Not Exceed The Grade Of The Adjacent Roadway. The Cross Slope Is Measured Perpendicular To The Direction Of Pedestrian Travel And Shall Not Exceed 2.00%
- Where There Is A Buffer Between The Sidewalk And The Curb, The Preferred Minimum Sidewalk Clear Width Is 5'. Where There Is No Buffer Between The Sidwalk And The Curb, The Perferred Minimum Sidewalk Width Is 6'.
- A 4' Minimum Clear Width Shall Be Provided Adjacent To Street Furniture, Mailbox, Utility Pole, Or Other Protruding Object. Where The Sidewalk Clear Width Is Less Than 5', A Passing Space With Dimensions Of 5' X 5' Shall Be Provided At 200' Intervals
- **See** Roadway Typical Sections for Dimensions

LEGEND:

(F) 4" Sidewalk, Concrete On 4" Compacted Aggregate No. 53



LEGEND:

F1 1.5" HMA Surface, 9.5mm On 2.5" HMA Intermediate, 19.0mm On 6.0" Compacted Aggregate. No. 53 On Typ. INDOT Subgrade Treatment Type III

NOTES:

Width Varies, Typ. 8' - 12'
Cross Slope Varies, Typ. Max. 2.0%
(1.5% Desired)

MORGAN COUNTY HIGHWAY DEPARTMENT



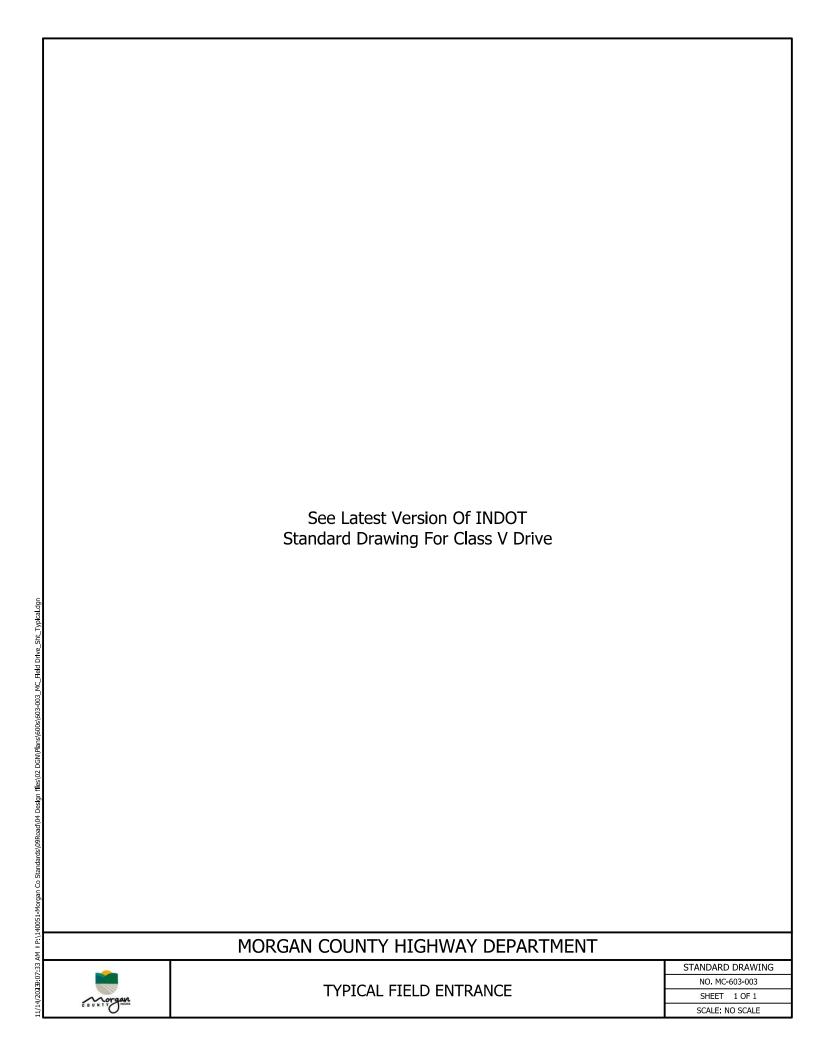
STANDARD DRAWING

NO. MC-602-002

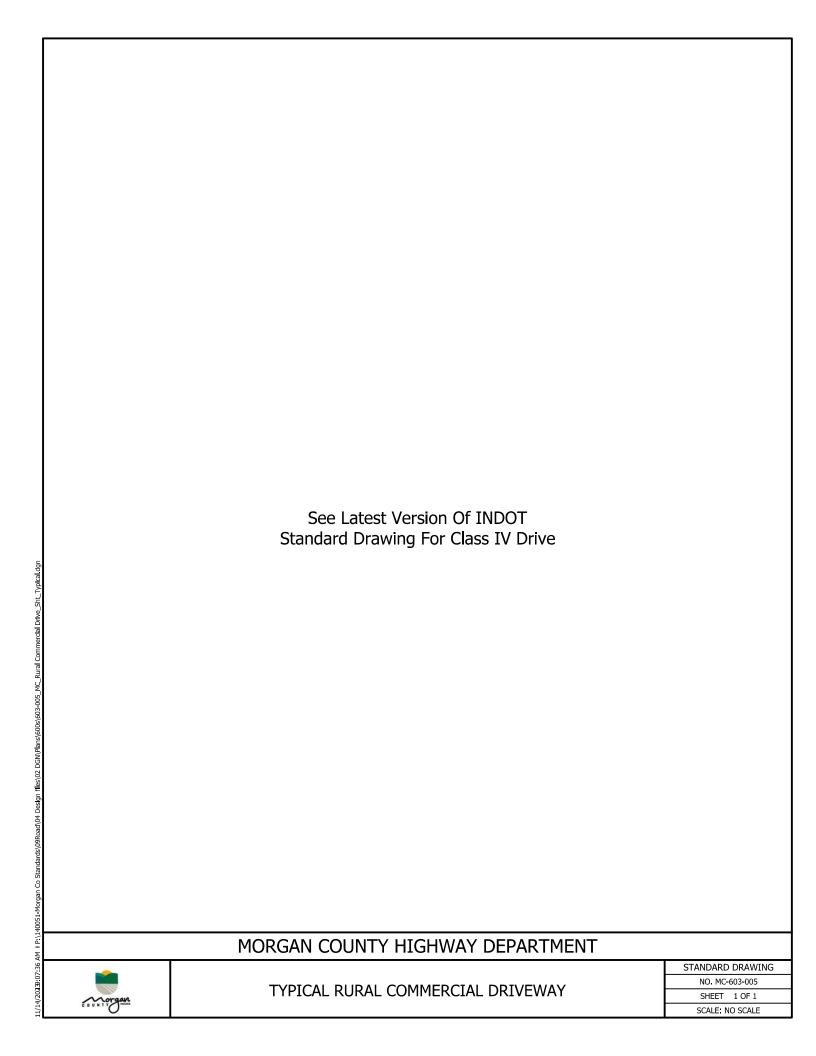
SHEET 1 OF 1

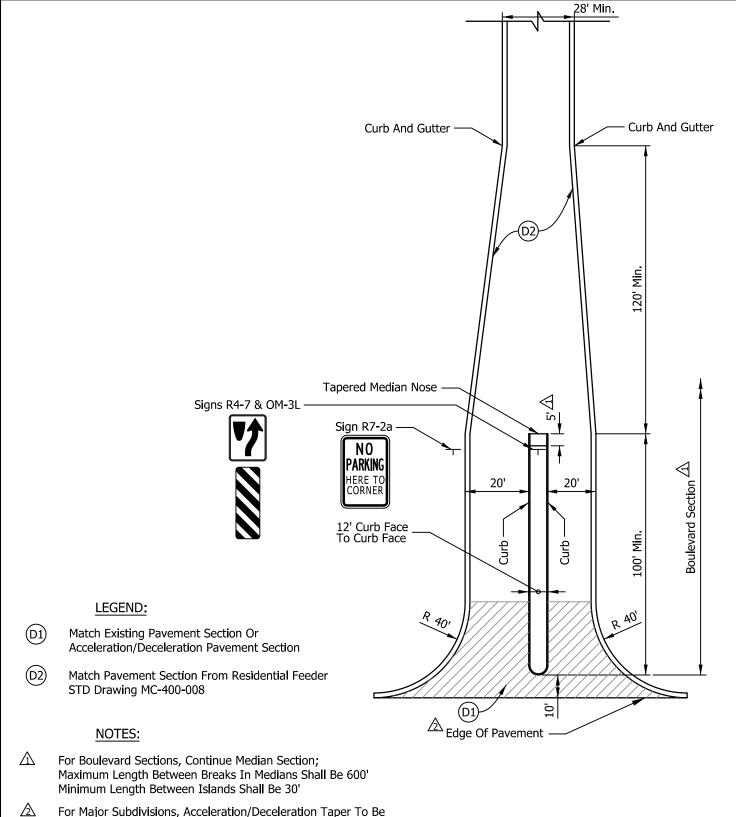












- ◬ For Major Subdivisions, Acceleration/Deceleration Taper To Be Used To Tie Into Existing, See STD Drawing Sheet Name
- 3. Vegitation Shall Not Obstruction Sight Line
- 4. All Sign Posts Shall Be Mounted On Breakaway Anchors.

MORGAN COUNTY HIGHWAY DEPARTMENT

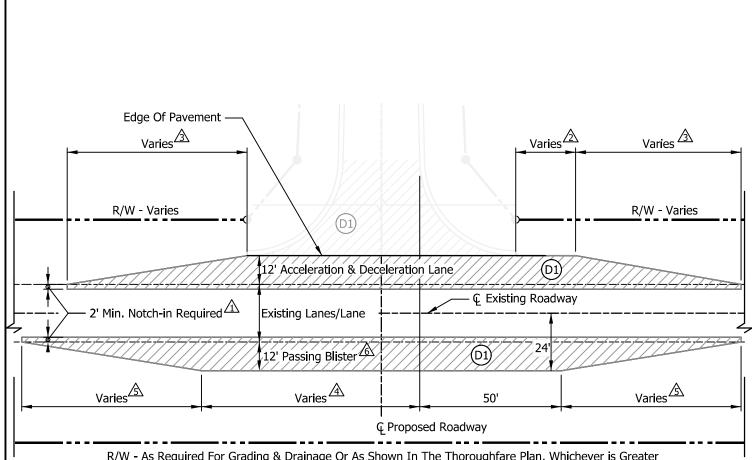


TYPICAL SUBDIVISION ENTRANCE

STANDARD DRAWING NO. MC-603-006

SCALE: NO SCALE

SHEET 1 OF 1



R/W - As Required For Grading & Drainage Or As Shown In The Thoroughfare Plan, Whichever is Greater

	<u>/1\</u>	Pavement With A Minimum Of 2' Clean Saw Cut Edge
A 14 15 15: :	<u> </u>	Deceleration Tangent See Table

<u> </u>	Acceleration/Deceleration Taper See Table
A	Passing Blister Variable Tangent See Table

4	Passing Blister Variable Tangent See Table
ß	Passing Blister Tapers See Table

<u></u>	Passing Blisters R	equired When	Deemed Necessary	By The	County Engineer
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7.	Construction Plans Shall Include Centerline Profile Of The Existing
	Road Being Intersected By The Proposed Road. The Profile Shall Extend
	A Minimum Of 500' From The Entrance Centerline In Each Direction

Accel And Decel Dimension Speed (MPH) 75' 125' 30 Or Less Greater Than 30 100' 150' & Less Than 50 Greater Than 50 100' 200'

Passing Blister Dimension		
Speed (MPH)	4	ß
30 Or Less	150'	150'
Greater Than 30 & Less Than 50	150'	200'
Greater Than 50	200'	300'

LEGEND:

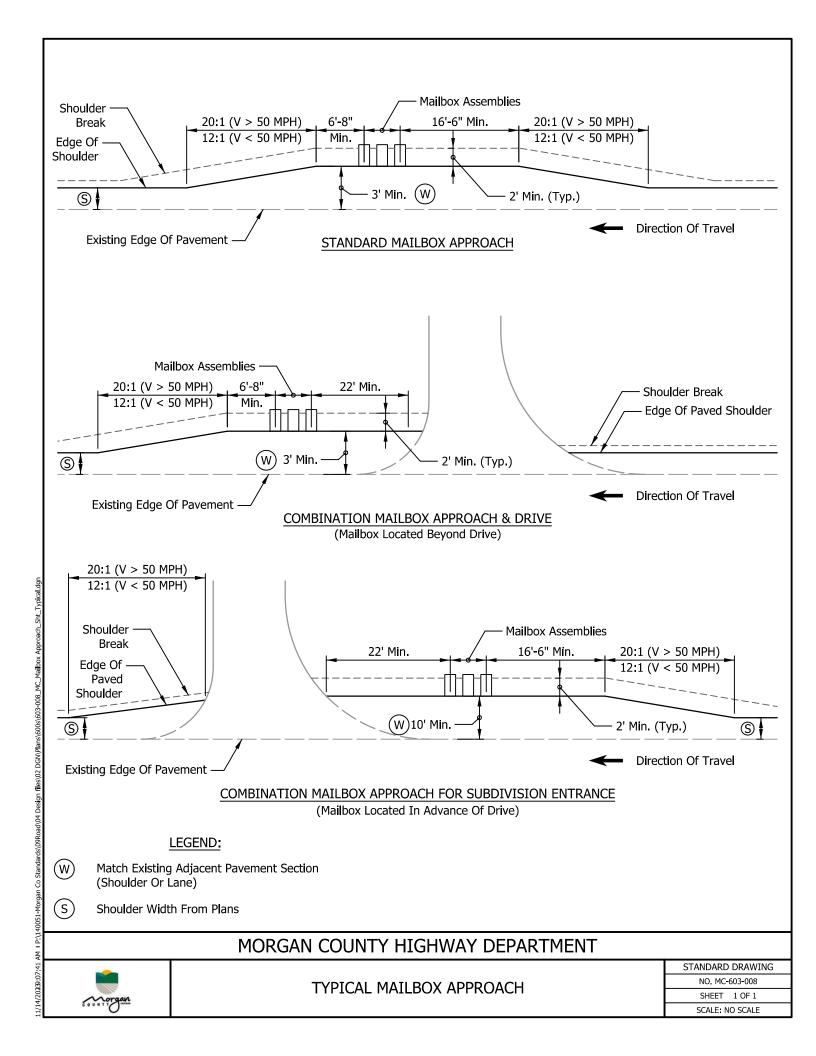
(D1) Match Existing Roadway Pavement Section

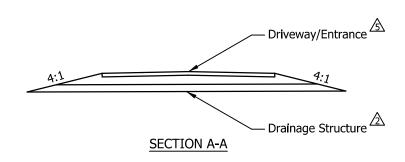
MORGAN COUNTY HIGHWAY DEPARTMENT



TYPICAL ACCELERATION / DECELERATION LANE

STANDARD DRAWING NO. MC-603-007 SHEET 1 OF 1 SCALE: NO SCALE





NOTES:

- 12" Min. Diameter Structure (15" Diameter Desirable)
 Or As Directed By Morgan County Engineer
- Invert Elevations Shall Be Provided At All Downstream And Upstream Inverts.
- 3. Drainage Area For Structure Shall Be Provided.
- Flow Line Elevations Shall Be Provided At The Beginning, End, And Every Grade Break.
- For Subdivision Residential Driveway Details See STD Drawing MC-603-001 For Urban Commercial Driveway Details See STD Drawing MC-603-002 For Field Entrance Details See STD Drawing MC-603-003
- Pipe End Sections Shall Be In Accordance With Clear Zone Criteria Outlined In Current Version Of AASHTO Roadside Design Guide. End Section Material Shall Match Pipe Material.

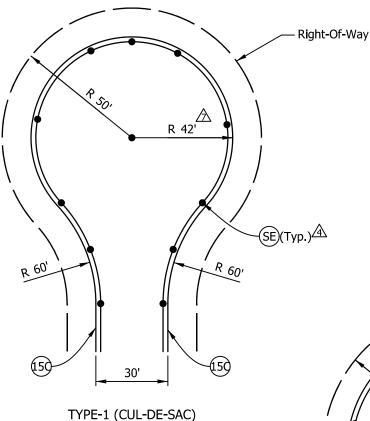
MORGAN COUNTY HIGHWAY DEPARTMENT



TYPICAL CULVERT DETAIL WITH OPEN DITCHES

STANDARD DRAWING

NO. MC-603-009 SHEET 1 OF 1

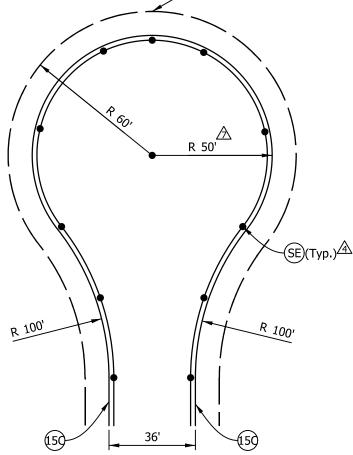


NOTES:

- Type-1 Shall Be Used Only In Residential Subdivisions, 1. All Others Shall Be Type-2.
- 2. Warning Signs Shall Be Posted At The Street Entrance, Indicating No Outlet
- 3. One Detail Shall Be Provided For Each Cul-De-Sac. Each Detail Shall Be Identified By Street Name.
- 4 Elevations Provided Shall Be Proposed Flow Line Of Gutter.
- 5. Street Width And Radius Lengths Are Measured To The Back Of Curb.
- 6. No Center Islands Permitted.
- А Radius Shall Be In Accordance With Current Fire Protection Requirements. May Differ From Dimensions Shown.

LEGEND:

- (15) Rolled Curb, See STD Drawing MC-601-001
- (SE) Spot Elevations To Be Provided At Locations As Described Below: Beginning, Middle, And End Of Curves Approximately 40' Spacing Along Cul-De-Sac Edge Of Pavement Center Of Cul-De-Sac (High-Point)



TYPE-2 (CUL-DE-SAC)

Right-Of-Way

MORGAN COUNTY HIGHWAY DEPARTMENT

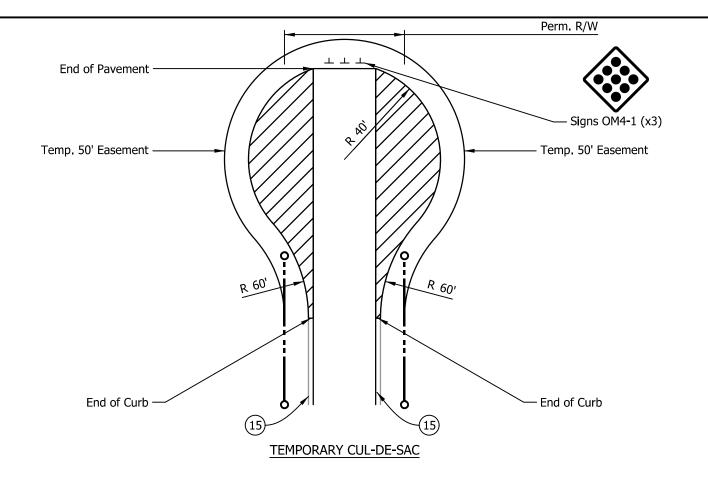


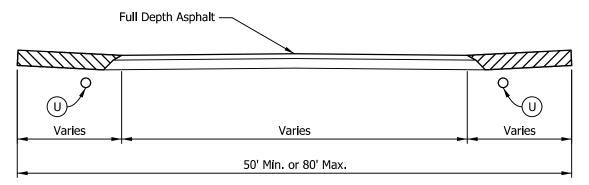
TYPICAL CUL-DE-SAC

STANDARD DRAWING

NO. MC-604-001

SHEET 1 OF 1





TEMPORARY CUL-DE-SAC TYPICAL

LEGEND

- (15) Concrete Curb And Gutter See STD Drawing MC-601-001
- U) Underdrain (Typ.) See STD Drawing MC-401-001
- Temporary Pavement To Be Removed When Street Is Continued. Thickness And Type To Match Permanent Pavement.

MORGAN COUNTY HIGHWAY DEPARTMENT



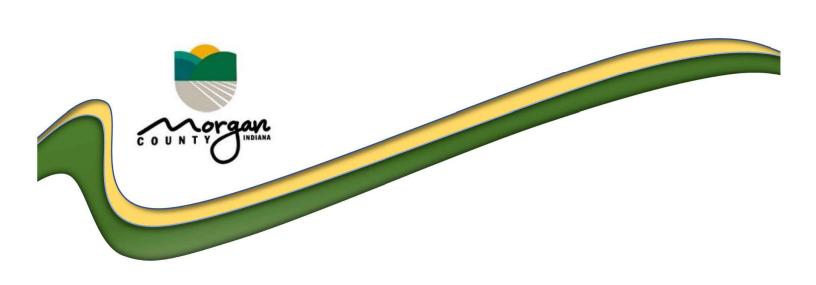
TYPICAL TEMPORARY CUL-DE-SAC

STANDARD DRAWING NO. MC-604-002

SHEET 1 OF 1

INDEX OF MORGAN COUNTY STANDARDS 700 SERIES STANDARD DRAWINGS STRUCTURES

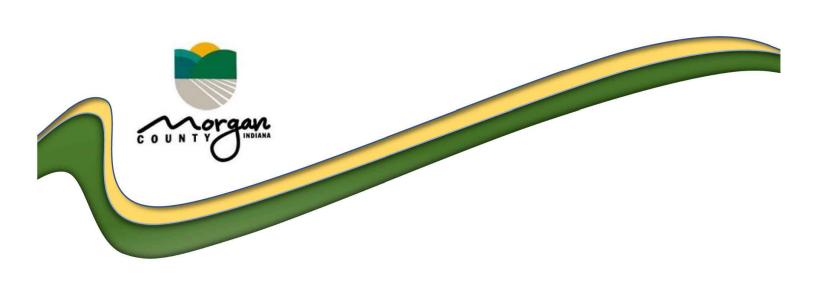
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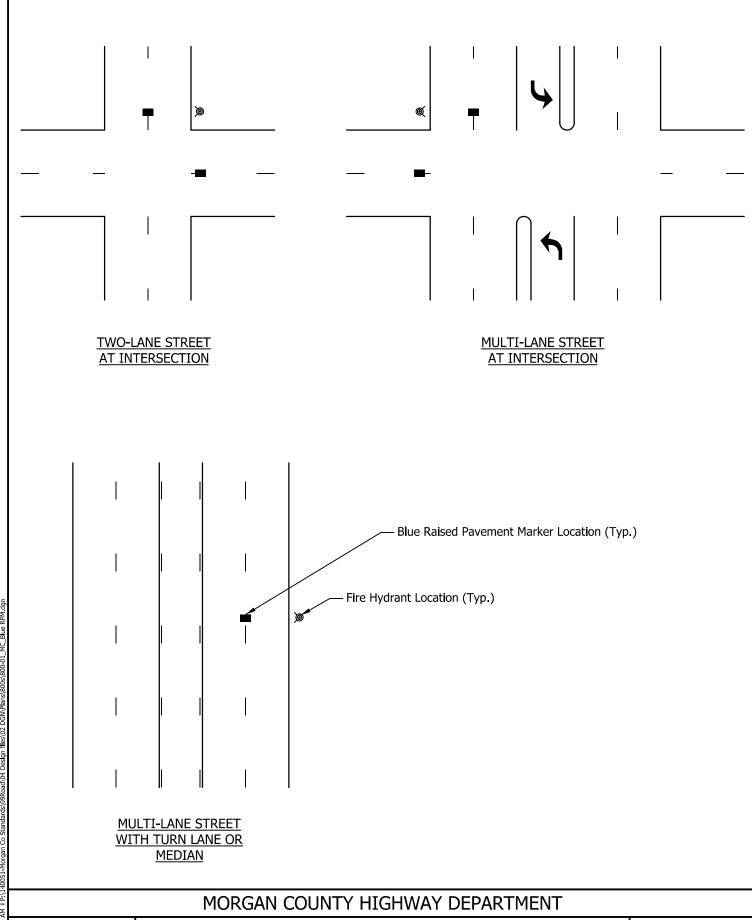


INDEX OF MORGAN COUNTY STANDARDS 800 SERIES STANDARD DRAWINGS TRAFFIC CONTROL DEVICES

Typical Raised Pavement Markers Locations (Blue)......MC-800-001

The Materials, Installation, Placement, Operation, Maintenance, And All Other Incidentals Regarding Signage, Barricades, And Other Traffic Control Devices Shall Be In Accordance With The Latest Versions Of INDOT Standard Specifications, INDOT Standard Drawings, And The Indiana Manual On Uniform Traffic Control Devices For Streets And Highways.





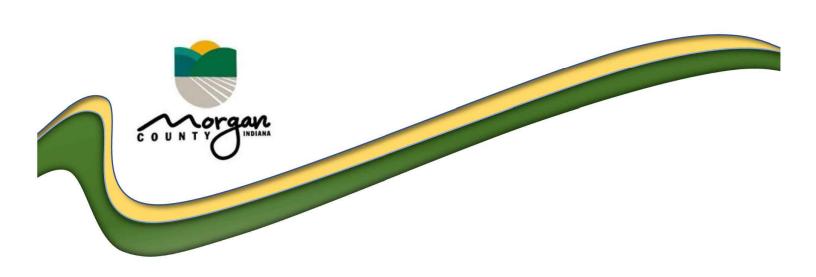
TYPICAL RAISED PAVEMENT MARKER LOCATIONS (BLUE)

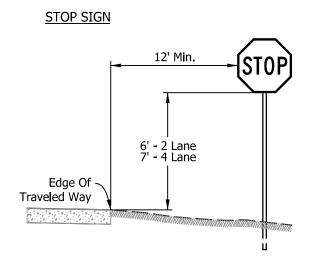
STANDARD DRAWING NO. MC-800-001

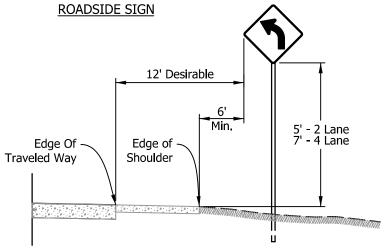
SHEET 1 OF 1

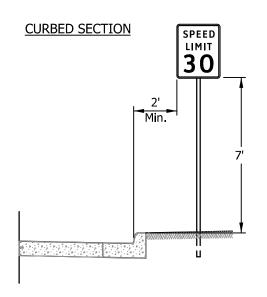
INDEX OF MORGAN COUNTY STANDARDS 900 SERIES STANDARD DRAWINGS STREET SIGNS

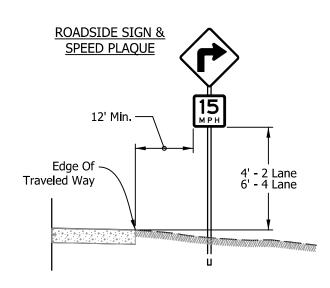
Typical Position Of Signs In Relation To Roadway	MC-900-001
Typical Street Name Sign Details	MC-900-002





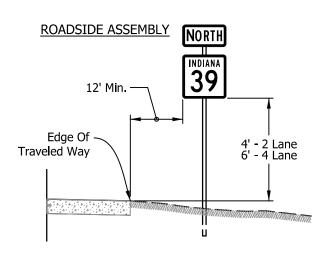






NOTES:

- △ See MUTCD Section 2A.19 For Reduced Lateral Offset Distances, 2' May Be Used In Areas Where Lateral Offsets Are Limited.
- 2. For Additional Information See MUTCD.
- 3. All Signs Shall Have H.I.P. Retroreflective Backgrounds.
- 4. All Sign Posts Shall Be Mounted On Breakaway Anchors.

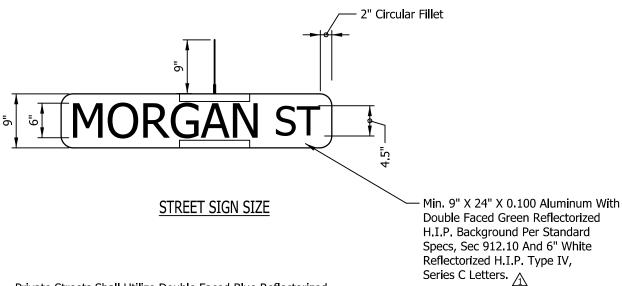


MORGAN COUNTY HIGHWAY DEPARTMENT



TYPICAL POSITION OF SIGNS IN RELATION TO ROADWAY (CONVENTIONAL ROADS AND STREETS)

NO. MC-900-001
SHEET 1 OF 1
SCALE: NO SCALE



- Private Streets Shall Utilize Double Faced Blue Reflectorized H.I.P Background With 6" White Lettering.
- 2. One Sign Assemble Shall Be Located At Each Intersection On The Northeast Corner When Possible.
- 3. Stop Signs Shall Not Be Installed On The Street Name Sign Posts.
- All Hardware To Be Galvanized Steel
- 5. For Additional Information See MUTCD.
- 6. All Sign Posts Shall Be Mounted On Breakaway Anchors.

MORGAN COUNTY HIGHWAY DEPARTMENT



TYPICAL STREET NAME SIGNS DETAILS (DETAILS)

STANDARD DRAWING NO. MC-900-002

SHEET 1 OF 1