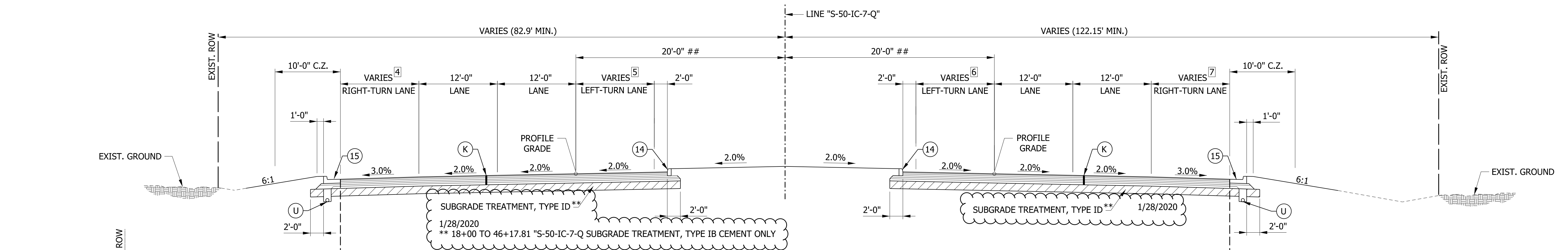


TYPICAL FULL DEPTH PAVEMENT SECTION
STA. 114+00.00 "C" TO 117+12.50 "C"

- 1 VARIES FROM 12' TO 0' FROM STA. 114+00.00 "C" TO 117+05.80 "C"
EQUALS 0' FROM STA. 117+05.80 "C" TO STA. 117+12.50 "C"
- 2 VARIES FROM 0' TO 12' FROM STA. 114+00.00 "C" TO 115+93.15 "C"
EQUALS 12' FROM STA. 115+93.15 "C" TO 115+12.50 "C"
- 3 EQUALS 0' FROM STA. 114+00.00 "C" TO 115+93.15 "C"
VARIES FROM 0' TO 7.43' FROM STA. 115+93.15 "C" TO 117+12.50 "C"



TYPICAL FULL DEPTH PAVEMENT SECTION WITH MEDIAN
STA. 15+22.20 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"

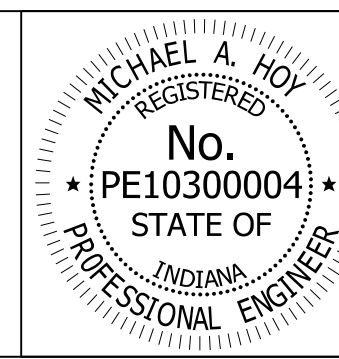
MEDIAN CONSTRUCTION BEGINS @ STA. 16+85 "S-50-IC-7-Q"
SEE CONSTRUCTION DETAILS AND SPOT ELEVATION DETAILS
FOR MORE INFORMATION.

- 4 EQUALS 12' FROM STA. 15+22.20 "S-50-IC-7-Q" TO 20+25.00 "S-50-IC-7-Q"
VARIES FROM 12' TO 0' FROM STA. 20+25.00 "S-50-IC-7-Q" TO 21+25.00 "S-50-IC-7-Q"
EQUALS 0' FROM STA. 21+25.00 "S-50-IC-7-Q" TO 26+55.96 "S-50-IC-7-Q"
EQUALS 11' FROM STA. 26+55.96 "S-50-IC-7-Q" TO 33+68.35 "S-50-IC-7-Q"
EQUALS 0' FROM STA. 33+68.35 "S-50-IC-7-Q" TO 39+43.11 "S-50-IC-7-Q"
EQUALS 12' FROM STA. 39+43.11 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"
- 5 EQUALS 12' FROM STA. 15+22.20 "S-50-IC-7-Q" TO 19+09.00 "S-50-IC-7-Q"
VARIES FROM 12' TO 0' FROM STA. 19+09.00 "S-50-IC-7-Q" TO 20+09.00 "S-50-IC-7-Q"
EQUALS 0' FROM STA. 20+09.00 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"
- 6 EQUALS 0' FROM STA. 15+22.20 "S-50-IC-7-Q" TO 37+00.00 "S-50-IC-7-Q"
VARIES FROM 0' TO 12' FROM STA. 37+00.00 "S-50-IC-7-Q" TO 38+00.00 "S-50-IC-7-Q"
EQUALS 12' FROM STA. 38+00.00 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"
- 7 EQUALS 12' FROM STA. 15+22.20 "S-50-IC-7-Q" TO 20+00.00 "S-50-IC-7-Q"
EQUALS 0' FROM STA. 20+00.00 "S-50-IC-7-Q" TO 26+34.01 "S-50-IC-7-Q"
EQUALS 11' FROM STA. 26+34.01 "S-50-IC-7-Q" TO 33+48.43 "S-50-IC-7-Q"
EQUALS 0' FROM STA. 33+48.43 "S-50-IC-7-Q" TO 41+50.00 "S-50-IC-7-Q"
VARIES FROM 0' TO 12' FROM STA. 41+50.00 "S-50-IC-7-Q" TO 42+50.00 "S-50-IC-7-Q"
EQUALS 12' FROM STA. 42+50.00 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"

LEGEND

- (D1) 140 #/SYD QC/QA-HMA, 2, 64, SURFACE, 9.5 MM ON
220 #/SYD QC/QA-HMA, 2, 64, SURFACE, 12.5 MM ON
6" COMPACTED AGGREGATE NO. 53, BASE ON
SUBGRADE TREATMENT TYPE III
- (K) 165 #/SYD QC/QA-HMA, 3, 70, SURFACE, 9.5 mm ON
275 #/SYD QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm ON
330 #/SYD QC/QA-HMA, 3, 64, BASE, 19.0 mm ON
330 #/SYD QC/QA-HMA, 3, 64, BASE, 19.0 mm ON
300 #/SYD QC/QA-HMA, 4, 76, INTERMEDIATE, 19.0 mm - OG ON
4" COMPACTED AGGREGATE NO. 53 ON
SUBGRADE TREATMENT TYPE ID ** 1/28/2020
- (O) COMPACTED AGGREGATE NO. 53
- (U) UNDERDRAIN
- (14) INTEGRAL CONCRETE CURB
- (15) MOD. COMBINED CONCRETE CURB & GUTTER
- (22) CONCRETE CENTER CURB, TYPE D

1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



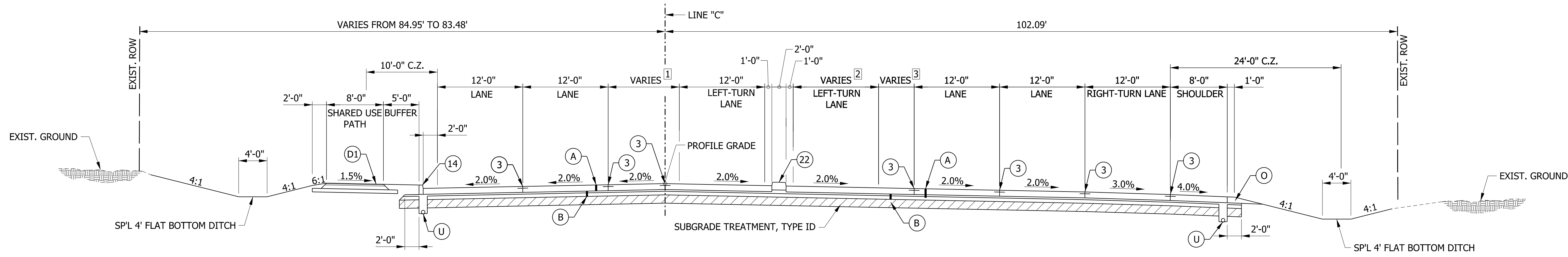
RECOMMENDED FOR APPROVAL: *Michael A. Hoy*
DESIGN ENGINEER 11/5/2019 DATE

DESIGNED: MAE DRAWN: JWM
CHECKED: LDW CHECKED: MAE

INDIANA
DEPARTMENT OF TRANSPORTATION

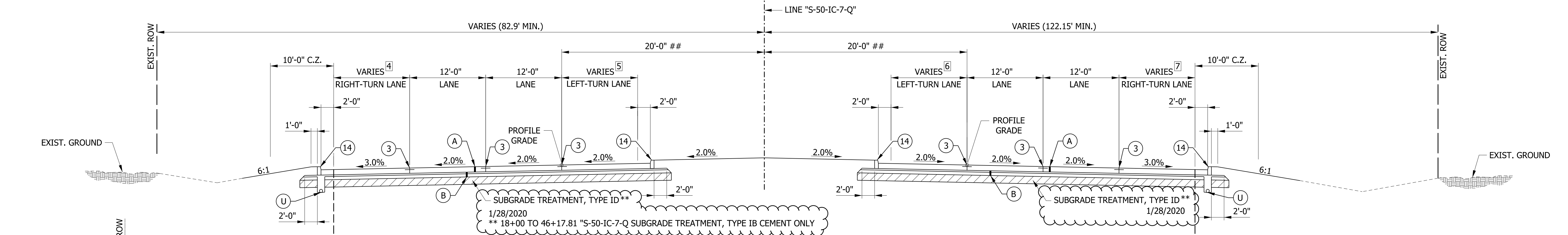
TYPICAL SECTION
HMA ALTERNATIVE

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
	5 of 346
CONTRACT	PROJECT
R-37820	1400090



TYPICAL FULL DEPTH PAVEMENT SECTION
STA. 114+00.00 "C" TO 117+12.50 "C"

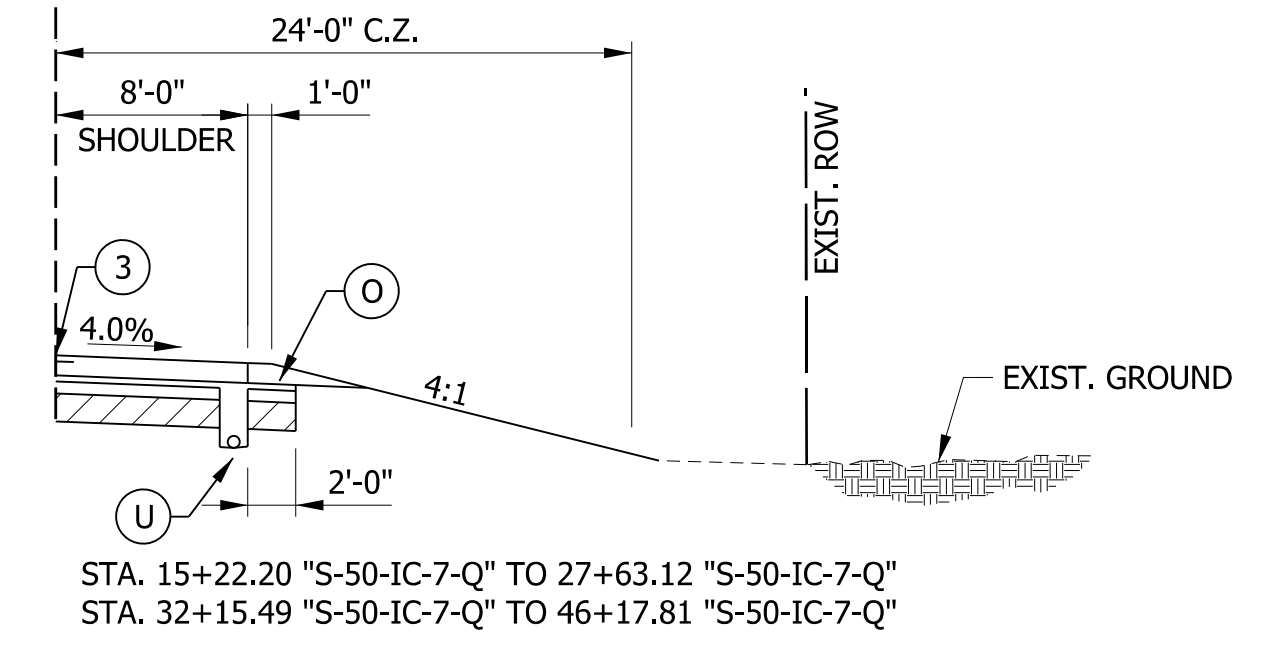
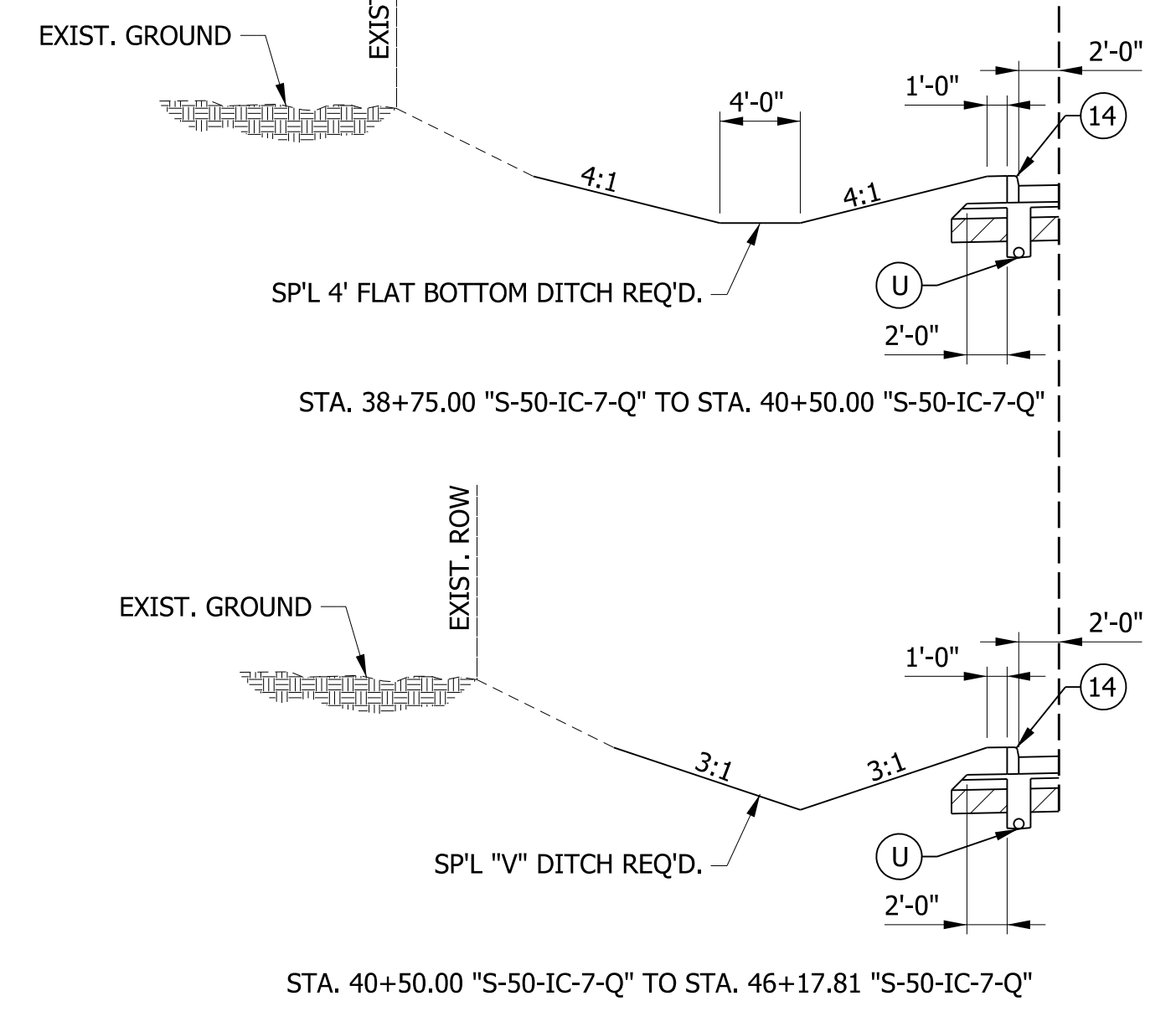
- 1 VARIES FROM 12' TO 0' FROM STA. 114+00.00 "C" TO 117+05.80 "C"
EQUALS 0' FROM STA. 117+05.80 "C" TO STA. 117+12.50 "C"
- 2 VARIES FROM 0' TO 12' FROM STA. 114+00.00 "C" TO 115+93.15 "C"
EQUALS 12' FROM STA. 115+93.15 "C" TO 115+12.50 "C"
- 3 EQUALS 0' FROM STA. 114+00.00 "C" TO 115+93.15 "C"
VARIES FROM 0' TO 7.43' FROM STA. 115+93.15 "C" TO 117+12.50 "C"



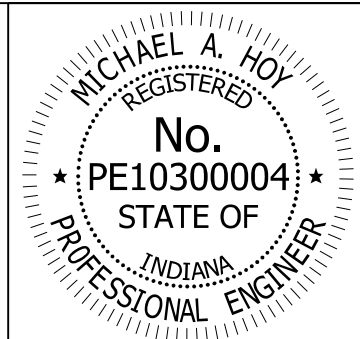
TYPICAL FULL DEPTH PAVEMENT SECTION WITH MEDIAN
STA. 15+22.20 "S-50-IC-7-Q" TO 46+17.81 "S-50-IC-7-Q"

MEDIAN CONSTRUCTION BEGINS @ STA. 16+85 "S-50-IC-7-Q"
SEE CONSTRUCTION DETAILS AND SPOT ELEVATION DETAILS
FOR MORE INFORMATION.

- LEGEND**
- (D1) 140 #/SYD QC/QA-HMA, 2, 64, SURFACE, 9.5 MM ON
220 #/SYD QC/QA-HMA, 2, 64, SURFACE, 12.5 MM ON
6" COMPACTED AGGREGATE NO. 53, BASE ON
SUBGRADE TREATMENT TYPE III
 - (A) 10" QC/QA-PCCP WITH D-1 JOINTS SPACED AT 15' WITH
1.5" DIAMETER DOWEL BARS SPACED AT 12"
 - (B) SUBBASE FOR PCCP (3" COMPACTED AGGREGATE, NO. 8
DRAINAGE LAYER ON 6" COMPACTED AGGREGATE NO. 53)
 - (O) COMPACTED AGGREGATE NO. 53
 - (U) UNDERDRAIN
 - (3) LONGITUDINAL JOINT OR LONGITUDINAL CONSTR. JOINT
 - (14) INTEGRAL CONCRETE CURB
 - (15) MOD. COMBINED CONCRETE CURB & GUTTER
 - (22) CONCRETE CENTER CURB, TYPE D



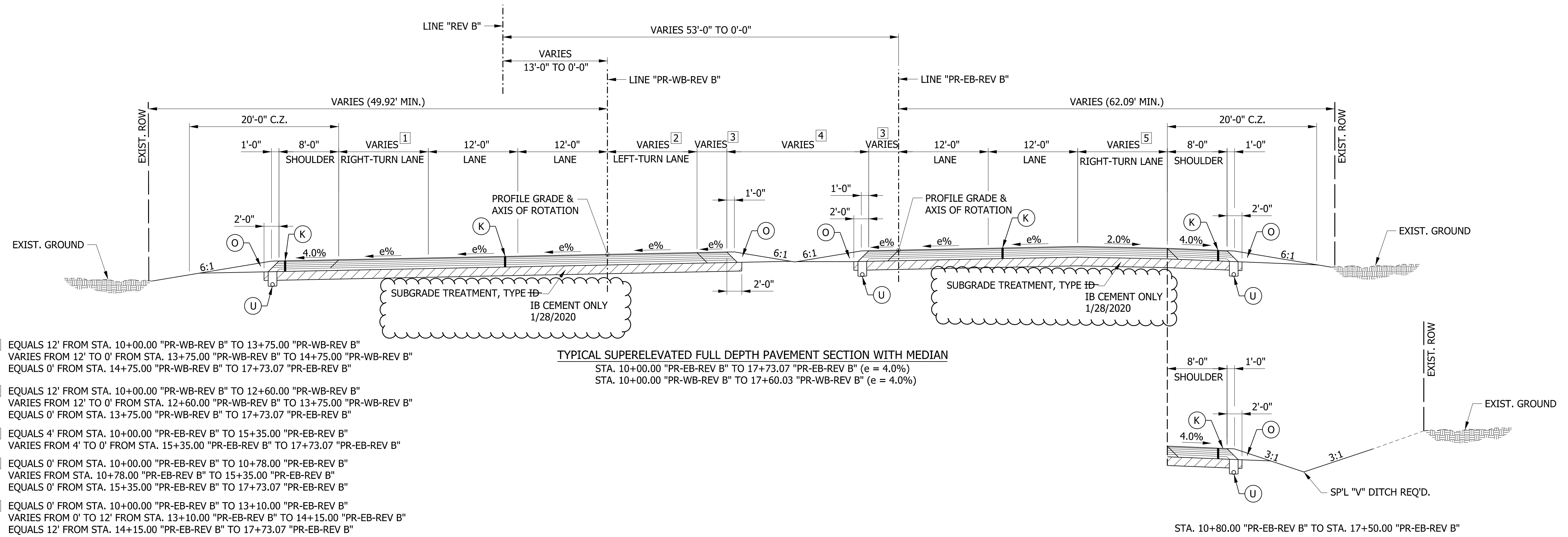
1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



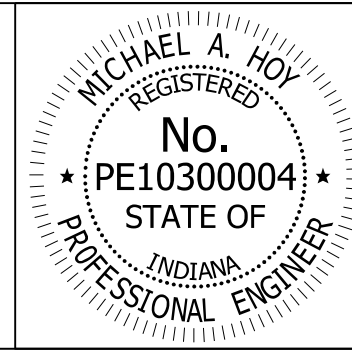
RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE
DESIGNED: MAE DRAWN: JWM
CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION PCCP ALTERNATIVE

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE

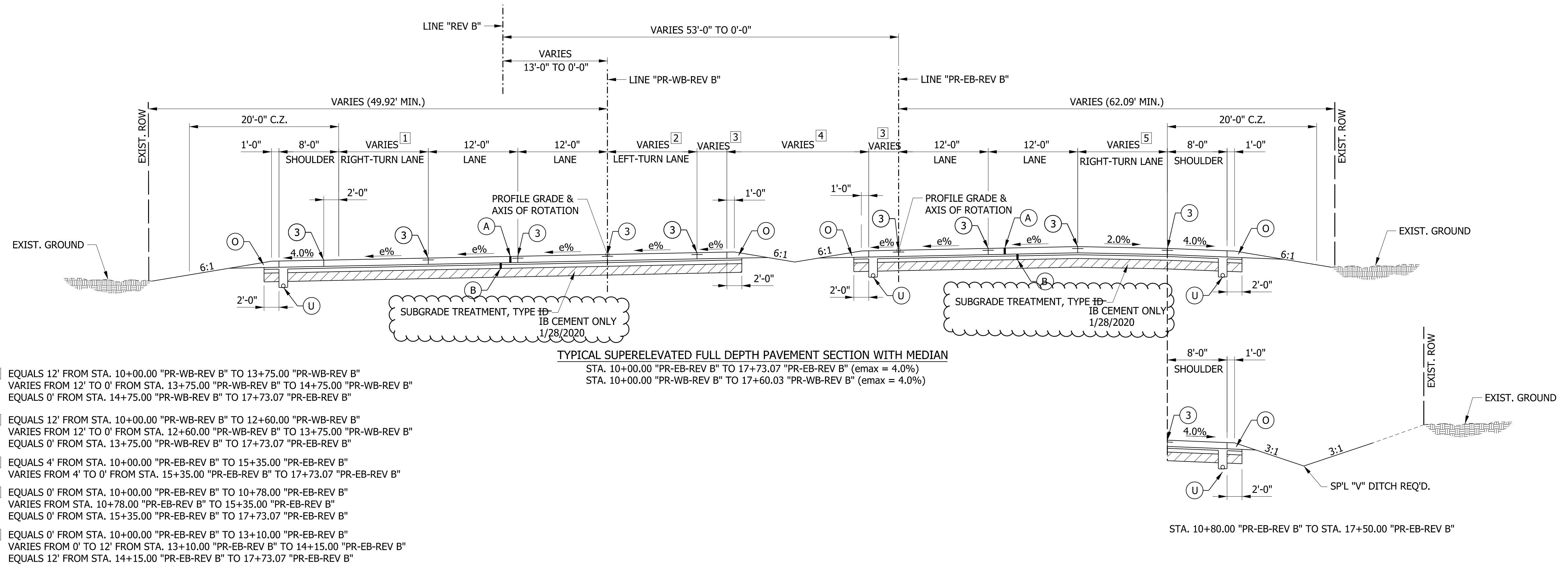
DESIGNED: MAE DRAWN: JWM

CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION HMA ALTERNATIVE

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
	7 of 346
CONTRACT	PROJECT
R-37820	1400090

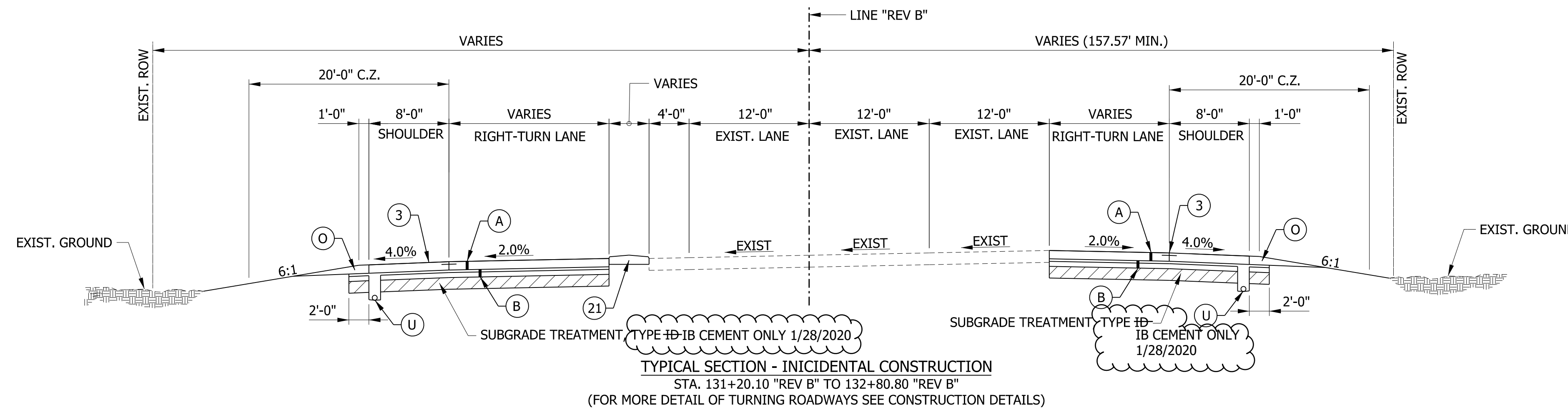


- 1 EQUALS 12' FROM STA. 10+00.00 "PR-WB-REV B" TO 13+75.00 "PR-WB-REV B"
VARIES FROM 12' TO 0' FROM STA. 13+75.00 "PR-WB-REV B" TO 14+75.00 "PR-WB-REV B"
EQUALS 0' FROM STA. 14+75.00 "PR-WB-REV B" TO 17+73.07 "PR-EB-REV B"
- 2 EQUALS 12' FROM STA. 10+00.00 "PR-WB-REV B" TO 12+60.00 "PR-WB-REV B"
VARIES FROM 12' TO 0' FROM STA. 12+60.00 "PR-WB-REV B" TO 13+75.00 "PR-WB-REV B"
EQUALS 0' FROM STA. 13+75.00 "PR-WB-REV B" TO 17+73.07 "PR-EB-REV B"
- 3 EQUALS 4' FROM STA. 10+00.00 "PR-EB-REV B" TO 15+35.00 "PR-EB-REV B"
VARIES FROM 4' TO 0' FROM STA. 15+35.00 "PR-EB-REV B" TO 17+73.07 "PR-EB-REV B"
- 4 EQUALS 0' FROM STA. 10+00.00 "PR-EB-REV B" TO 10+78.00 "PR-EB-REV B"
VARIES FROM 12' TO 0' FROM STA. 10+78.00 "PR-EB-REV B" TO 15+35.00 "PR-EB-REV B"
EQUALS 0' FROM STA. 15+35.00 "PR-EB-REV B" TO 17+73.07 "PR-EB-REV B"
- 5 EQUALS 0' FROM STA. 10+00.00 "PR-EB-REV B" TO 13+10.00 "PR-EB-REV B"
VARIES FROM 0' TO 12' FROM STA. 13+10.00 "PR-EB-REV B" TO 14+15.00 "PR-EB-REV B"
EQUALS 12' FROM STA. 14+15.00 "PR-EB-REV B" TO 17+73.07 "PR-EB-REV B"

TYPICAL SUPERELEVATED FULL DEPTH PAVEMENT SECTION WITH MEDIAN

STA. 10+00.00 "PR-EB-REV B" TO 17+73.07 "PR-EB-REV B" (emax = 4.0%)
STA. 10+00.00 "PR-WB-REV B" TO 17+60.03 "PR-WB-REV B" (emax = 4.0%)

STA. 10+80.00 "PR-EB-REV B" TO STA. 17+50.00 "PR-EB-REV B"

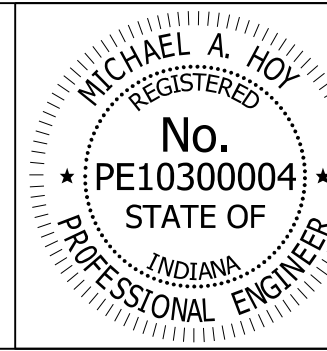


TYPICAL SECTION - INCIDENTAL CONSTRUCTION
STA. 131+20.10 "REV B" TO 132+80.80 "REV B"
(FOR MORE DETAIL OF TURNING ROADWAYS SEE CONSTRUCTION DETAILS)

LEGEND

- (D1) 140 #/SYD QC/QA-HMA, 2, 64, SURFACE, 9.5 MM ON 220 #/SYD QC/QA-HMA, 2, 64, SURFACE, 12.5 MM ON 6" COMPACTED AGGREGATE NO. 53, BASE ON SUBGRADE TREATMENT TYPE III
- (A) 10" QC/QA-PCCP WITH D-1 JOINTS SPACED AT 15' WITH 1.5" DIAMETER DOWEL BARS SPACED AT 12"
- (B) SUBBASE FOR PCCP (3" COMPACTED AGGREGATE, NO. 8 DRAINAGE LAYER ON 6" COMPACTED AGGREGATE NO. 53)
- (O) COMPACTED AGGREGATE NO. 53
- (U) UNDERDRAIN
- (3) LONGITUDINAL JOINT OR LONGITUDINAL CONSTR. JOINT
- (14) INTEGRAL CONCRETE CURB
- (15) MOD. COMBINED CONCRETE CURB & GUTTER
- (21) CONCRETE CENTER CURB, TYPE A, W/ MILLED CORRUGATIONS
- (22) CONCRETE CENTER CURB, TYPE D

1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE

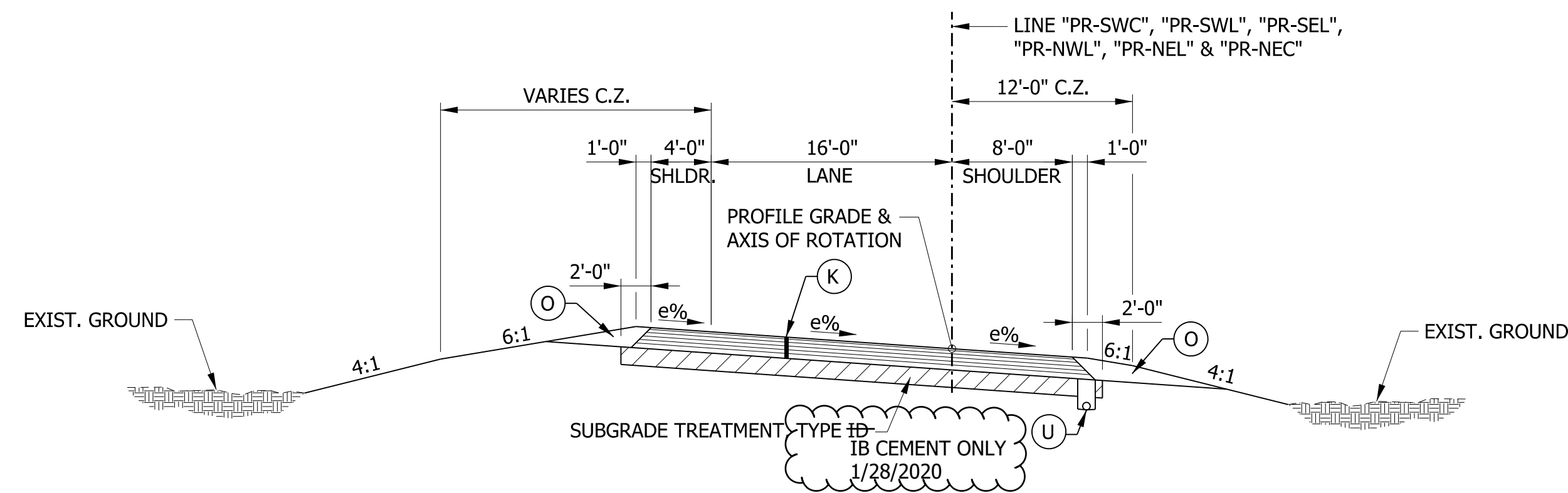
DESIGNED: MAE DRAWN: JWM

CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PCCP ALTERNATIVE

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
	8 of 346
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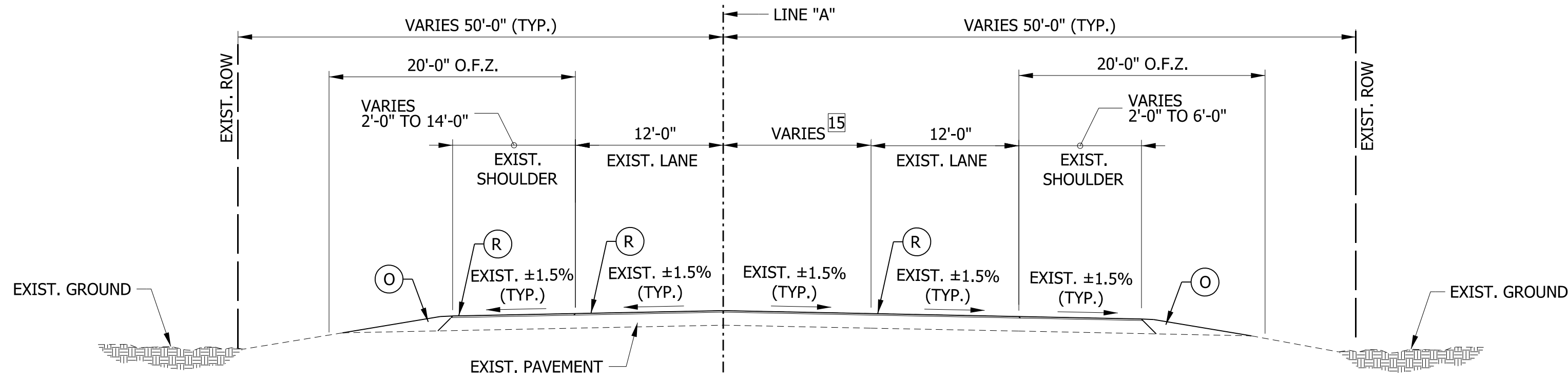


TYPICAL SUPERELEVATED FULL DEPTH PAVEMENT RAMP SECTION

STA. 2+89.36 "PR-SWC" TO 3+70.00 "PR-SWC" (emax = 7.6%)
 STA. 1+85.92 "PR-SWL" TO 4+29.01 "PR-SWL" (emax = 7.4%)
 STA. 3+47.03 "PR-SEL" TO 5+25.00 "PR-SEL" (emax = 7.4%)
 STA. 3+42.65 "PR-NWL" TO 5+05.00 "PR-NWL" (emax = 7.4%)
 STA. 1+98.06 "PR-NEL" TO 4+27.10 "PR-NEL" (emax = 7.4%)
 STA. 3+44.22 "PR-NEC" TO 6+46.67 "PR-NEC" (emax = 8.0%)

LEGEND

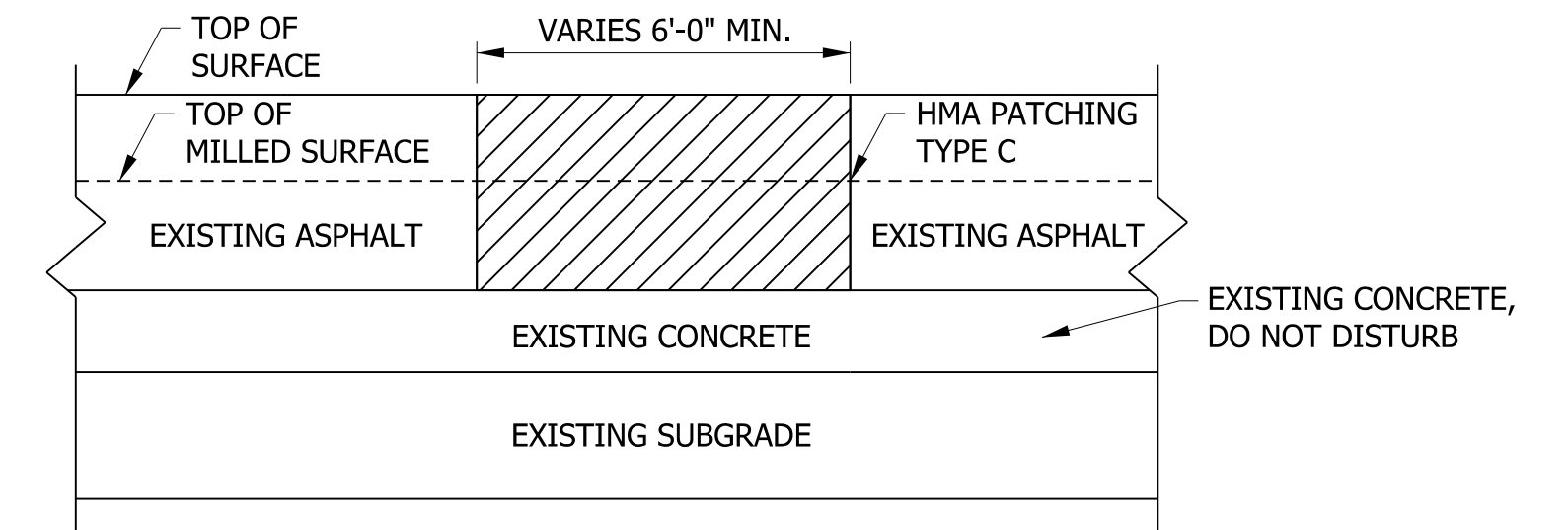
- (D1) 140 #/SYD QC/QA-HMA, 2, 64, SURFACE, 9.5 MM ON 220 #/SYD QC/QA-HMA, 2, 64, SURFACE, 12.5 MM ON 6" COMPACTED AGGREGATE NO. 53, BASE ON SUBGRADE TREATMENT TYPE III
- (K) 165 #/SYD QC/QA-HMA, 3, 70, SURFACE, 9.5 mm ON 275 #/SYD QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm ON 330 #/SYD QC/QA-HMA, 3, 64, BASE, 19.0 mm ON 330 #/SYD QC/QA-HMA, 3, 64, BASE, 19.0 mm ON 300 #/SYD QC/QA-HMA, 4, 76, INTERMEDIATE, 19.0 mm - OG ON 4" COMPACTED AGGREGATE NO. 53 ON SUBGRADE TREATMENT TYPE 1B CEMENT ONLY 1/28/2020
- (R) 165 #/SYD QC/QA-HMA, 3, 70, SURFACE, 9.5 mm ON 1.5" EXISTING MILLED PAVEMENT
- (O) COMPACTED AGGREGATE NO. 53
- (U) UNDERDRAIN
- (15) MOD. COMBINED CONCRETE CURB & GUTTER
- (16) COMBINED CONCRETE CURB & GUTTER, TYPE B
- (21) CONCRETE CENTER CURB, TYPE A, W/ MILLED CORRUGATIONS
- (22) CONCRETE CENTER CURB, TYPE D



TYPICAL SECTION - RESURFACE SECTION

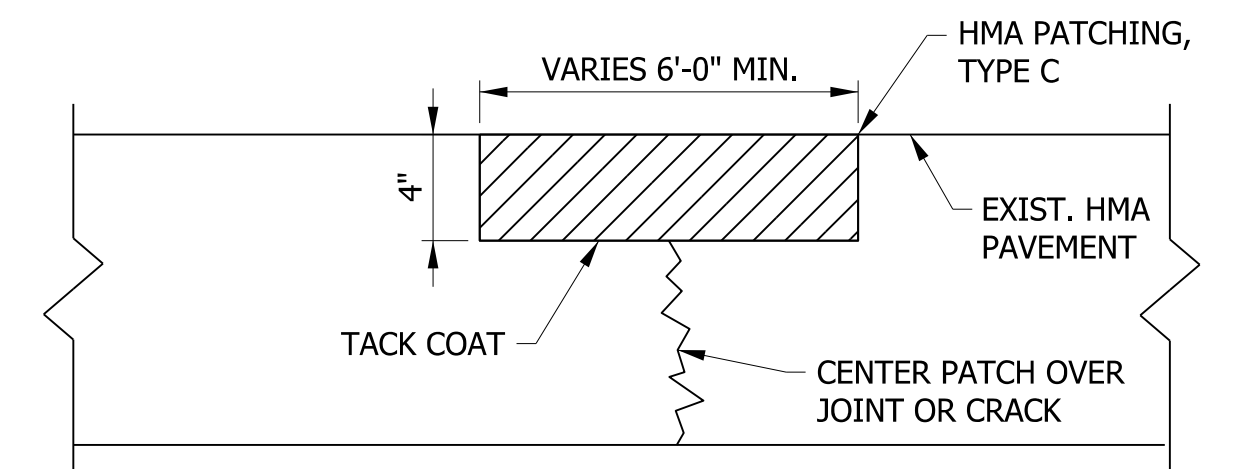
STA. 0+00.00 "A" TO 8+83.45 "A"

15 EQUALS 0'-0" FROM STA. 0+00.00 "A" TO 5+57.00 "A"
 VARIES FROM 0'-0" TO 12'-0" FROM STA. 5+57.00 "A" TO 7+63.00 "A"
 EQUALS 12'-0" FROM STA. 7+63 "A" TO 8+83.45 "A"



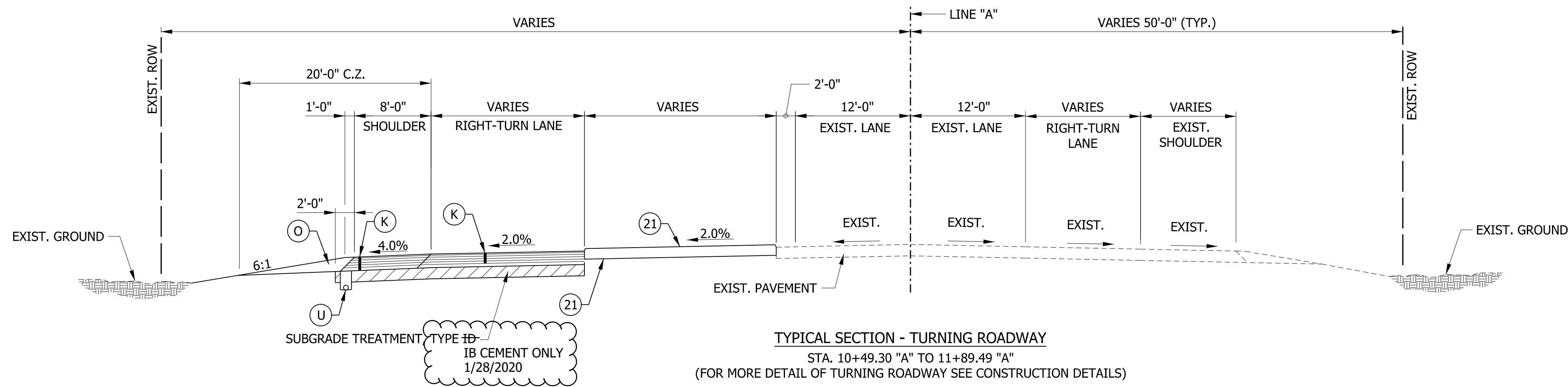
TYPICAL FULL DEPTH HMA PATCH

NOT TO SCALE



TYPICAL PARTIAL DEPTH HMA PATCH

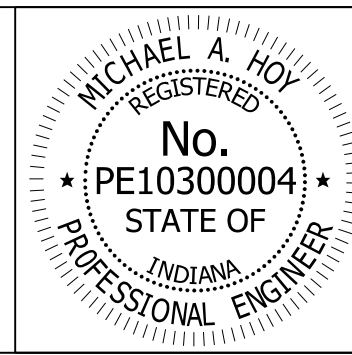
NOT TO SCALE



TYPICAL SECTION - TURNING ROADWAY

STA. 10+49.30 "A" TO 11+89.49 "A"
 (FOR MORE DETAIL OF TURNING ROADWAY SEE CONSTRUCTION DETAILS)

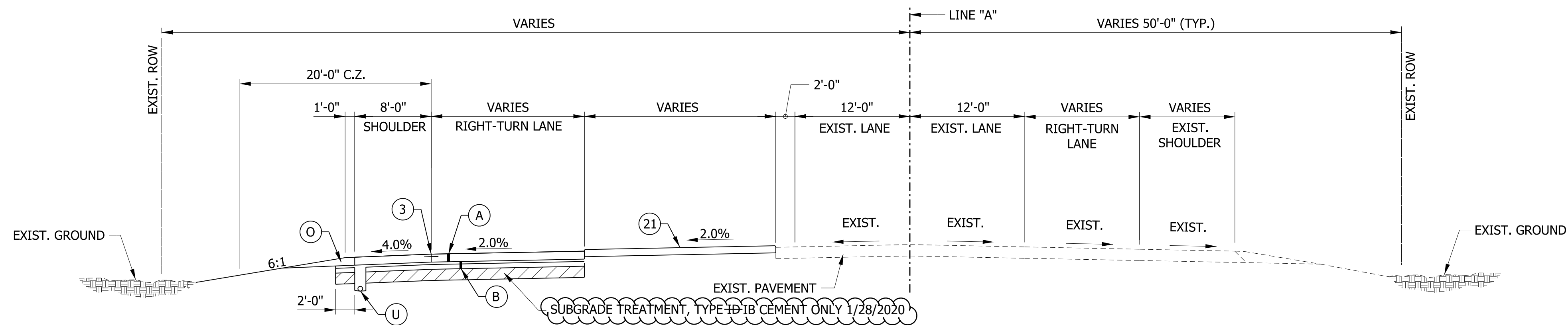
1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE
 DESIGNED: MAE DRAWN: JWM
 CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTION HMA ALTERNATIVE

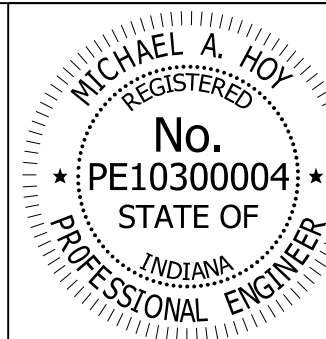
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
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TYPICAL SECTION - TURNING ROADWAY
 STA. 10+49.30 "A" TO 11+89.49 "A"
 (FOR MORE DETAIL OF TURNING ROADWAY SEE CONSTRUCTION DETAILS)

- LEGEND**
- (D1) 140 #/SYD QC/QA-HMA, 2, 64, SURFACE, 9.5 MM ON 220 #/SYD QC/QA-HMA, 2, 64, SURFACE, 12.5 MM ON 6" COMPACTED AGGREGATE NO. 53, BASE ON SUBGRADE TREATMENT TYPE III
 - (A) 10" QC/QA-PCCP WITH D-1 JOINTS SPACED AT 15' WITH 1.5" DIAMETER DOWEL BARS SPACED AT 12"
 - (B) SUBBASE FOR PCCP (3" COMPACTED AGGREGATE, NO. 8 DRAINAGE LAYER ON 6" COMPACTED AGGREGATE NO. 53)
 - (R) HMA RESURFACE
 - (O) COMPACTED AGGREGATE NO. 53
 - (U) UNDERDRAIN
 - (3) LONGITUDINAL JOINT OR LONGITUDINAL CONSTR. JOINT
 - (14) INTEGRAL CONCRETE CURB
 - (15) MOD. COMBINED CONCRETE CURB & GUTTER
 - (21) CONCRETE CENTER CURB, TYPE A, W/ MILLED CORRUGATIONS
 - (22) CONCRETE CENTER CURB, TYPE D

1/28/2020 REVISION: SUBGRADE TREATMENT TYPE CHANGE



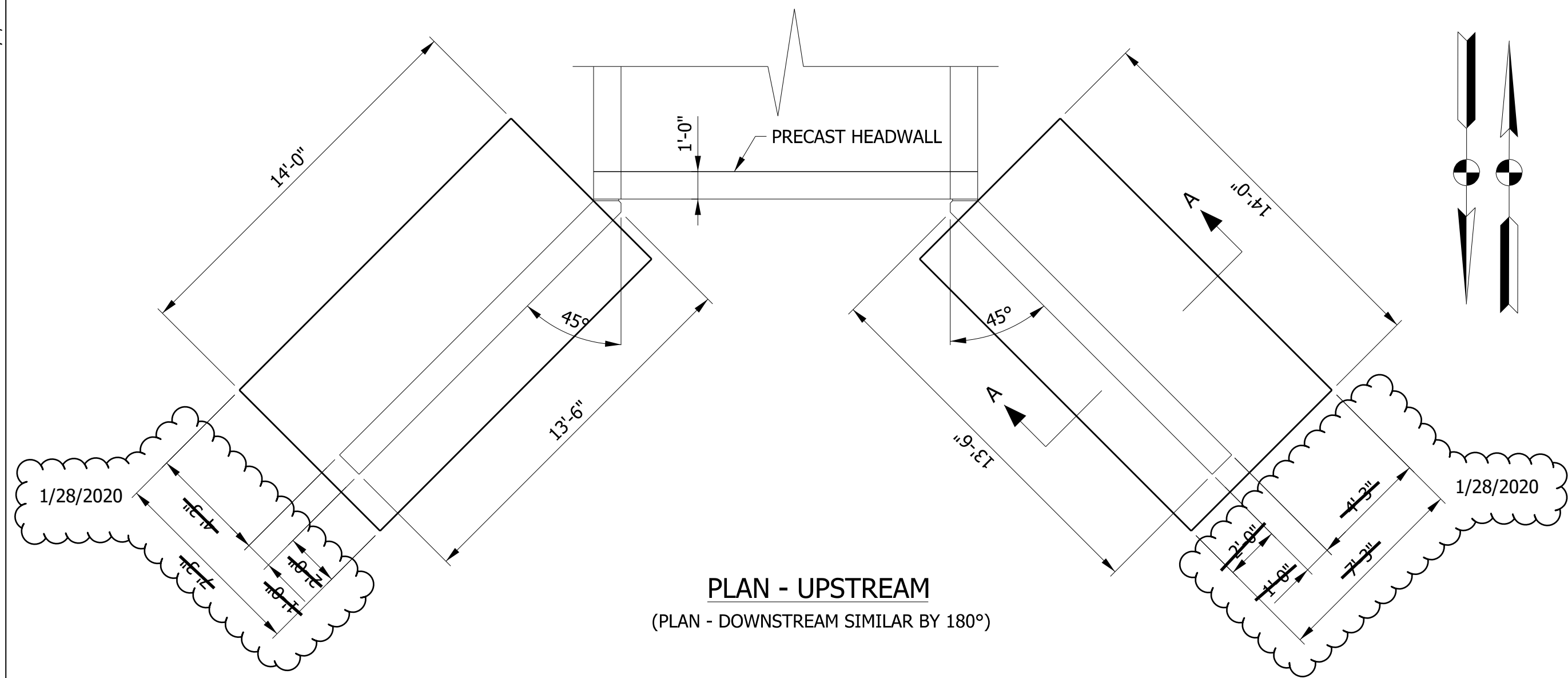
RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE

DESIGNED: MAE DRAWN: JWM
 CHECKED: LDW CHECKED: MAE

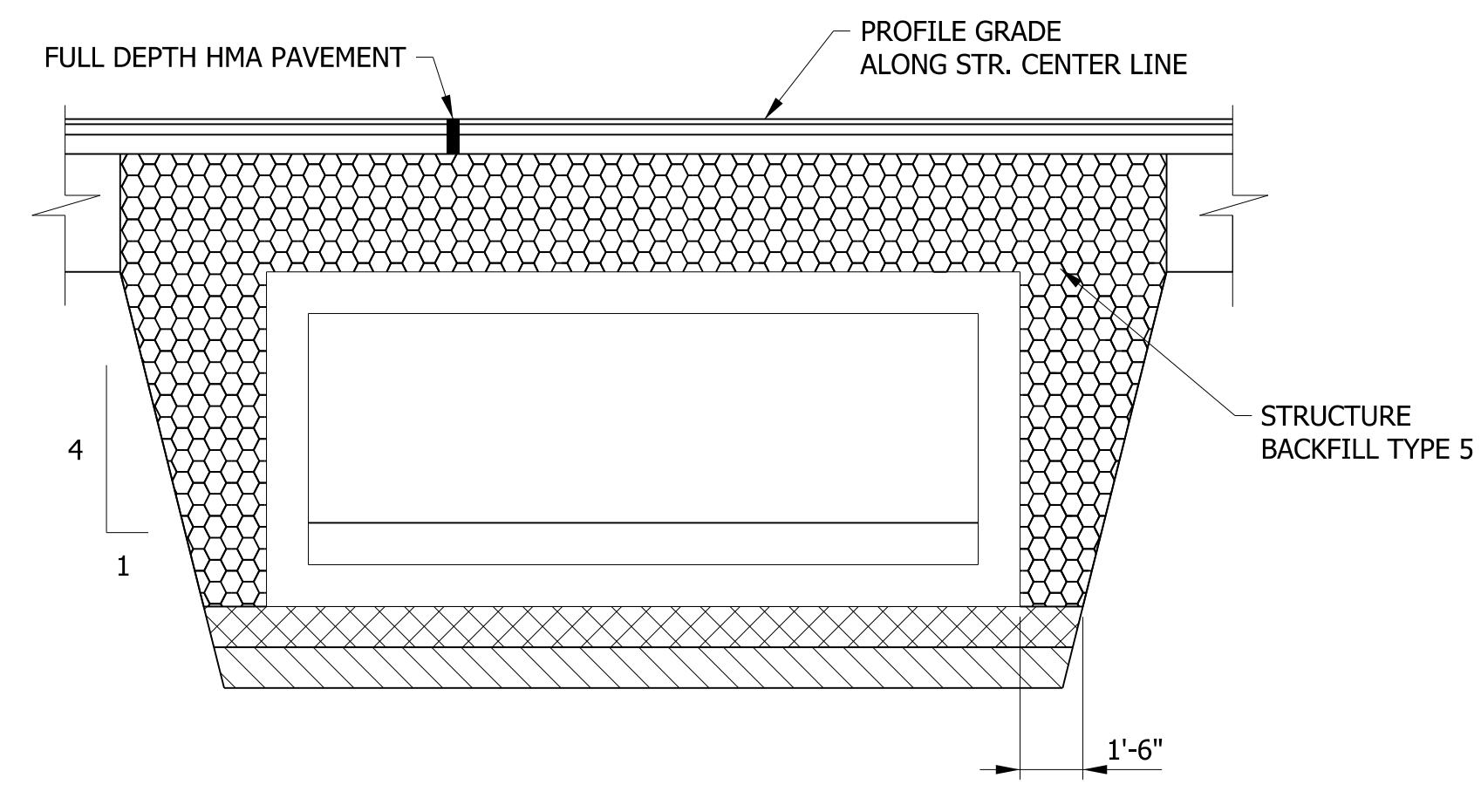
INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PCCP ALTERNATIVE

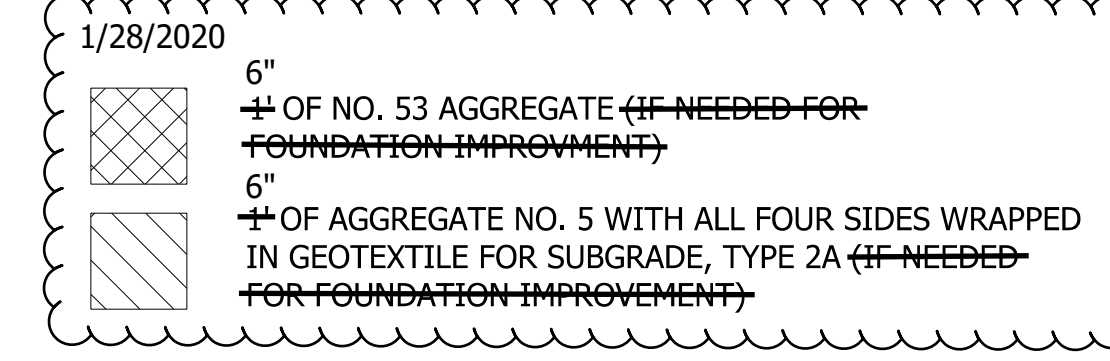
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1400090
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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PLAN - UPSTREAM
(PLAN - DOWNSTREAM SIMILAR BY 180°)

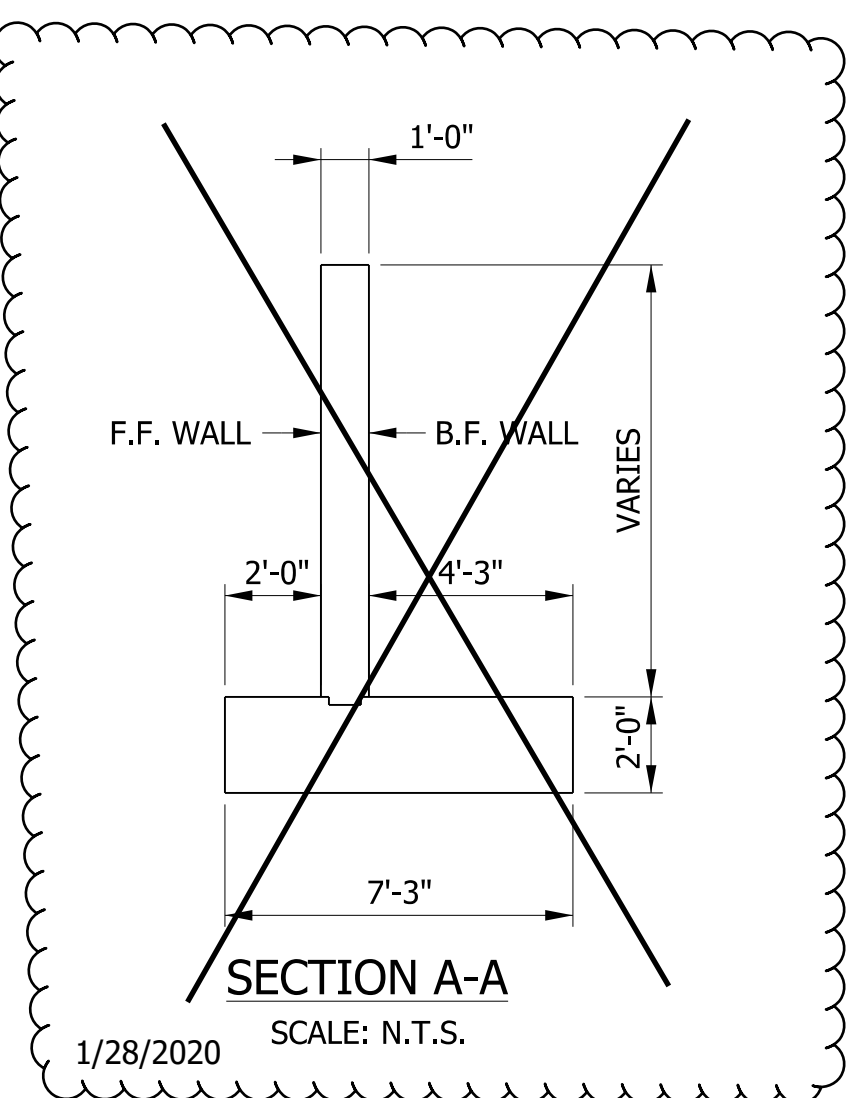


STRUCTURE BACKFILL AT CULVERT
SCALE: N.T.S.



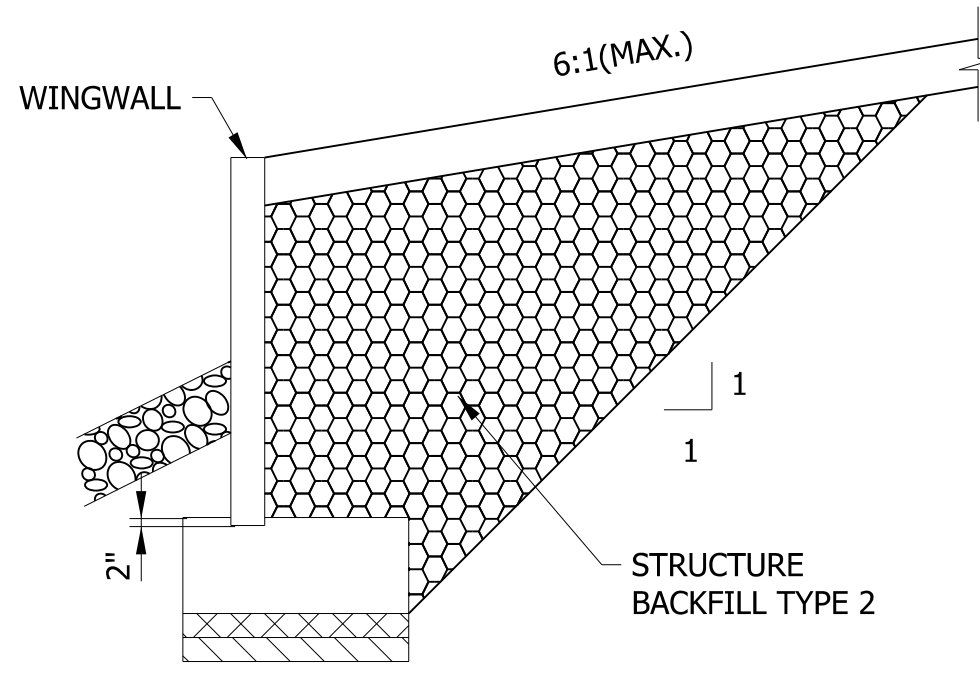
SOIL PARAMETERS FOR FOUNDATION AND WINGWALL DESIGN			
NOMINAL SOIL BEARING RESISTANCE, psf (STRENGTH LIMIT)			
BEARING RESISTANCE FACTOR (STRENGTH LIMIT)			
NOMINAL SOIL BEARING RESISTANCE, psf (SERVICE LIMIT)			
ANGLE OF INTERNAL FRICTION OF FOUNDATION SOIL (ϕ), DEGREES			
ANGLE OF FRICTION BETWEEN FOOTING AND FOUNDATION SOIL (δ), DEGREES			
FRICTION FACTOR ($\tan\delta$)			
NOMINAL COHESION OF FOUNDATION SOIL (C), psf			
NOMINAL ADHESION BETWEEN FOUNDATION SOIL AND CONCRETE (C_a), psf			
FRICTION ANGLE OF BACKFILL MATERIAL, DEGREES			
FRICTION ANGLE BETWEEN WALL AND BACKFILL (δ_f), DEGREES			
TOTAL UNIT WEIGHT OF FOUNDATION SOIL, pcf			
UNIT WEIGHT OF BACKFILL MATERIAL, pcf			

TABLE A			
FOOTING WIDTH (feet)	BEARING RESISTANCE (psf)		
	FACTORED STRENGTH LIMIT	AT 0.5-inch SETTLEMENT	AT 1.0-inch SETTLEMENT
3			
4			
5			
6			



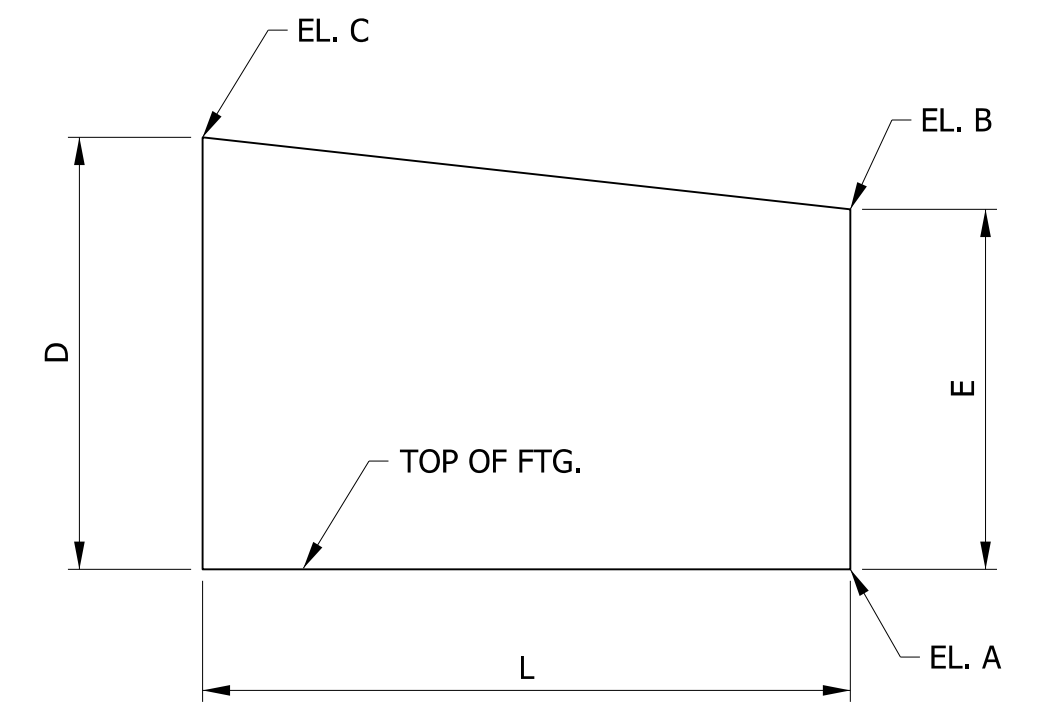
SECTION A-A
SCALE: N.T.S.

LOCATION	HEADWALL
INLET	18 SFT
OUTLET	18 SFT
TOTAL	36 SFT



STRUCTURE BACKFILL AT WINGS
(TYPICAL ALL WINGS)
SCALE: N.T.S.

RECOMMENDED PARAMETERS FOR WINGWALL FOOTINGS		Estimated Value
LRFD Resistance Factor		0.45
Nominal Bearing Resistance (psf)		3400
Factored Bearing Resistance (psf)		1500
Angle of Internal Friction of Foundation Soil (ϕ), degrees		N/A
Friction angle Between of Wall and Backfill (δ), degrees		20
Cohesion of Foundation Material (C), psf		600
Adhesion between Footings and foundation soil (C_a), psf		360
Total Unit Weight of Foundation Material, γ_f (pcf)		120
Total Unit Weight of Backfill Material, γ_b (pcf)		130

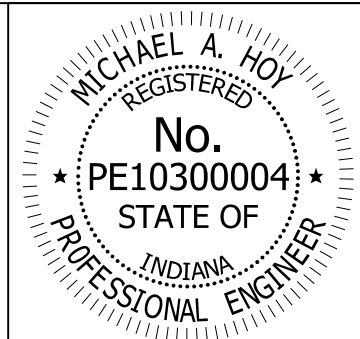


WINGWALL ELEVATION
WALLS A, B, C, & D
SCALE: N.T.S.

LOCATION	WINGWALL ELEVATIONS			
	DOWNSTREAM		UPSTREAM	
	"A"	"B"	"C"	"D"
A	580.88	580.88	581.32	581.32
B	588.48	588.48	588.92	588.92
C	588.88	588.88	589.32	589.32
D	8'-0"	8'-0"	8'-0"	8'-0"
E	7'-7"	7'-7"	7'-7"	7'-7"
L	13'-6"	13'-6"	13'-6"	13'-6"

REINFORCED CONCRETE BOX CULVERT
SPAN: 16'-0", RISE: 6'-0", SKEW: 0° RT.
U.S. 50 OVER U.N.T. OF SANDY BRANCH CREEK
JACKSON COUNTY, INDIANA

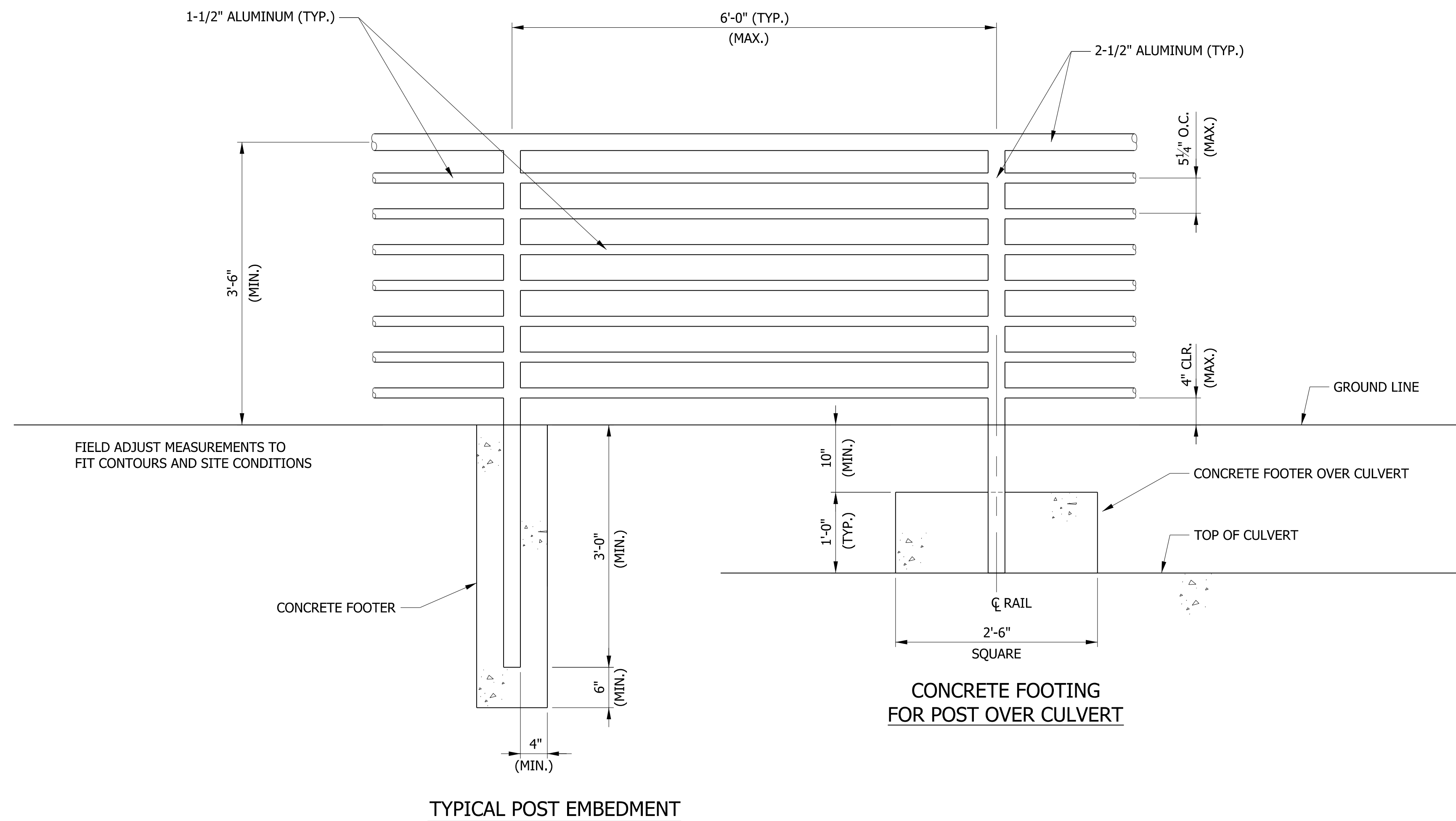
1/28/2020 REVISION: WINGWALL AND SOIL PARAMETERS



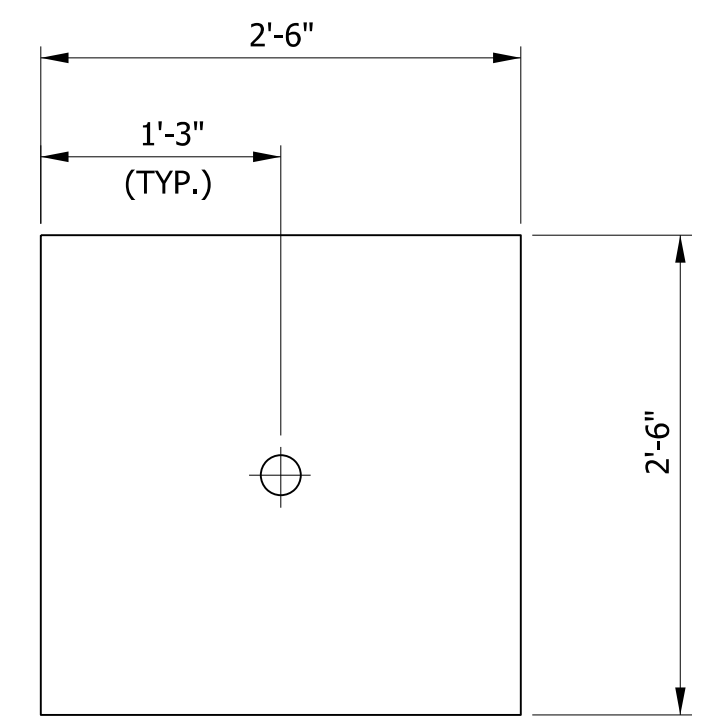
RECOMMENDED FOR APPROVAL: *Michael A. Hoy* DESIGN ENGINEER 11/5/2019 DATE
DESIGNED: MAE DRAWN: JWM
CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION
WINGWALL DETAILS - STRUCTURE NO. 148

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION 1400090
SURVEY BOOK	SHEETS 141 of 346
CONTRACT R-37820	PROJECT 1400090



TYPICAL POST EMBEDMENT

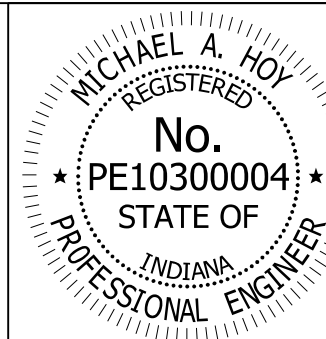


CONCRETE FOOTER PLAN

HANDRAIL NOTES

- 1.) HANDRAIL LIMITS ARE FROM STA. 89+17.38, LT. TO 89+85.38, LT. (68 LFT. TOTAL)
- 3.) ALL PIPE MATERIAL SHALL BE ALUMINUM.
- 4.) THE PIPE DIAMETER DIMENSIONS SHOWN ARE O.D. (OUTSIDE DIAMETER)
- 5.) THE WALL THICKNESS SHALL BE 0.25"
- 6.) THE ALUMINUM FINISH SHALL BE CLEAR ANODIZED FINISH

1/28/2020 REVISION: ADDED HANDRAIL NOTES



RECOMMENDED FOR APPROVAL	<i>Michael A. Hoy</i>	DESIGN ENGINEER	11/5/2019	DATE
DESIGNED:	MAE	DRAWN:	JWM	
CHECKED:	LDW	CHECKED:	MAE	

INDIANA
DEPARTMENT OF TRANSPORTATION

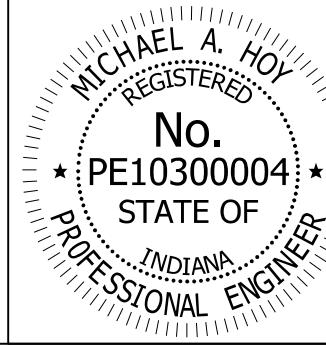
**HAND RAIL DETAIL - ON PATH &
OVER REINFORCED CONCRETE BOX CULVERT**

HORIZONTAL SCALE	BRIDGE FILE
1" = 1'-0"	
VERTICAL SCALE	DESIGNATION
N/A	1400090
SURVEY BOOK	SHEETS
	142 of 346
CONTRACT	PROJECT
R-37820	1400090

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	CLEAR ZONE AT DRIVE	PCCP FOR APPROACHES	HMA FOR APPROACHES, TYPE B	QC/QA HMA MATERIALS						JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	HMA MATERIAL FOR:		COMPACTED AGGREGATE FOR BASE NO. 53				SUBGRADE TREATMENT, TYPE II	SUBGRADE TREATMENT, TYPE III	SUBGRADE TREATMENT, TYPE ID	REMARKS					
						COMPACTED AGGREGATE BASE	HMA	CONCRETE						3, 70 SURFACE 9.5 mm	2, 64 SURFACE 9.5 mm	3, 70 INTERMID. 19.0 mm	2, 64 INTERMID. 12.5 mm	4, 76 INTERMID. 19.0 mm - OG DRAINAGE LAYER	3, 64 BASE 19.0 mm			LIQUID ASPHALT SEALANT	TACK COAT	DEPTH												
																								DEPTH		6 IN	4 IN					VARIES	TONS			
																								6 IN	9 IN									TONS	CYS	TONS
Mainline Reconstruction																																				
	Sta. 88+90 to Sta. 107+22.72 Line "C"	VARIES	1954.0																																	
	Sta. 108+46.91 to Sta. 117+12.48 Line "C"	VARIES	855.0																																	
	Sta. 15+22.20 to Sta. 46+91.65 Line "S-50-IC-7-Q"	VARIES	3170.0																																	
	Sta. 124+42.52 to 132+97.68 Line "REV B"	VARIES	856.0																																	
Mainline Shoulders																																				
	Sta. 88+90 to Sta. 107+22.72 Line "C"	VARIES																																		
	Sta. 108+46.91 to Sta. 117+12.48 Line "C"	VARIES																																		
	Sta. 15+22.20 to Sta. 46+91.65 Line "S-50-IC-7-Q"	VARIES																																		
	Sta. 124+42.52 to 132+97.68 Line "REV B"	VARIES																																		
Resurface																																				
	Sta. 0+00 to 9+00 Line "A"	VARIES	900.0																																	
Multi-Use Path																																				
	Sta. 88+90 Line "C" to Sta. 15+42 Line "S-50-IC-7-Q"	VARIES	2917.0																																	
Drives - Line "C"																																				
	80+50 Lt. Class III Drive	32.0	30.5	30/30																																
	84+16 Lt. Street Approach	39.0	23.9	20/20																																
	87+31 Lt. Class III Drive	24.0	40.7	20/25																																
	91+42 Lt. Class III Drive	28.0	40.7	25/25																																
	91+90 Rt. Class IV Drive	45.0	28.2	20/20																																
	95+22 Lt. Street Approach	35.0	33.5	50/60																																
	95+22 Rt. Street Approach	39.0	38.7	47/50																																
	97+56 Rt. Class IV Drive	64.0	43.9	20/20																																
	98+81 Lt. Class III Drive	47.0	46.3	40/40																																
	101+28 Rt. Class II Drive	10.0	51.7	25/15																																
	102+00 Lt. Street Approach	39.0	51.7	20/10																																
	102+18 Rt. Class IV Drive	40.0	51.1	20/20																																
	105+59 Lt. Class III Drive	40.0	62.3	20/10																																
	106+82 Lt. Class III Drive	35.0	59.5	20/10																																
	109+67 Lt. Class III Drive	35.0	60.7	20/10																																
	111+13 Lt. Class III Drive	35.0	52.8	20/10																																
	113+36 Lt. Class III Drive	39.0	51.7	20/10																																

1/28/2020 REVISION: SUBGRADE TREATMENT AND APPROACHES



RECOMMENDED FOR APPROVAL
Michael A. Hoy
 DESIGN ENGINEER 11/5/2019 DATE
 DESIGNED: MAE DRAWN: JWM
 CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION
 HMA APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1400090
SURVEY BOOK	SHEETS
	221 of 346
CONTRACT	PROJECT
R-37820	1400090

