

DBT Geometrics

November 19, 2020 8:30am to Noon

Day 2 AM Question an Answer Record

Source	Type	Identity	Timestamp	Content
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 13:28	Good morning, welcome to day 2 of Geometrics. We will start at 8:30 am today
Attendee	Question	Perkinsm12 (Unverified)	11/19/2020 13:28	Good Morning
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 13:29	Good morning(Perkinsm12 (Unverified) asked "Good Morning")
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 13:29	Thanks for joining us today
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:29	Good morning! :)
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 13:33	Good morning(Good morning! :))
Moderator	Announcement	Mark Shulick (ShulickM@michigan.gov)	11/19/2020 13:31	If you have problems with the Q&A links, you can text me at 517-899-4313...
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 13:34	I can be reached by text at 517.256.3576
Moderator	Announcement	Mark Shulick (ShulickM@michigan.gov)	11/19/2020 13:35	Here's the link to our WIKI website for class materials for class problems later in todays training: http://mdotwiki.state.mi.us/design/index.php/Category:Design_Basic_Training
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:39	is minimum curb reveal (for overlays) clearly stated anywhere? if so, where? if not, why?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:43	what is significance of det C used "utility poles close to edge" when they are not a "barrier"?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:43	I think you're a few slides behind
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:45	who approved use of Det G on non-fwy?
Moderator	Response	Mark Fisher (FISHERM@michigan.gov)	11/19/2020 13:47	Should be approved on a project by project basis. Contact standards unit and/or Geometrics(who approved use of Det G on non-fwy?)
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:47	are bridge approaches road or bridge?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:47	Which barrier curb should be used for a non freeway with posted speed more than 45mph?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:47	what is significance of det C used "utility poles close to edge" when they are not a "barrier"?

Attendee	Question	Anonymous (Unverified)	11/19/2020 13:48	who approved use of Det G on non-fwy?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:48	Which barrier curb should be used for a non freeway with posted speed more than 45mph?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:48	are bridge approaches road or bridge?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:49	lex kinter asked about reveal
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 14:06	Good morning Lex. Thanks for your comments and questions. Glad you could join us(lex kinter asked about reveal)
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:50	Todd Bonzelet
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 14:06	Good moring Todd . Thanks for your queestions and comments(Todd Bonzelet)
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:51	How do you determine which detail to use for each curb type? ex B1, B2, or B3?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:52	In a Normal crown section of a freeway. Is there any concern about having the VG in the middle of shoulder (ie half flush shoulder and half raised) - sometimes used to make sure you have adequate cover over a bridge footing.
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:52	I see the Moderator response
Attendee	Question	is there a scenario where curb could be used	11/19/2020 13:54	is there a scenario where curb could be used vs guardrail? for the purpose of keeping cars from leaving the travel lane?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:55	How do you determine which detail to use for each curb type? ex B1, B2, or B3?
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:55	is there a scenario where curb could be used vs guardrail? for the purpose of keeping cars from leav
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:56	B1, B2 or B3 - type of curb also used depend on roadway pavt thickness.
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:56	In a Normal crown section of a freeway. Is there any concern about having the VG in the middle of shoulder (ie half flush shoulder and half raised) - sometimes used to make sure you have adequate cover over a bridge footing.
Attendee	Question	Anonymous (Unverified)	11/19/2020 13:59	is there a scenario where curb could be used vs guardrail? for the purpose of keeping cars from leav
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:01	bike lanes. is C&G considered part of the bike lane

Attendee	Question	Carlos (Unverified)	11/19/2020 14:01	Regarding overlays, min reveal not stated to my knowledge. Typically pavement is milled or leveling course is feathered to avoid reducing curb face.
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:04	ok thanks
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 14:07	Thanks for your question. Glad you could join us today(ok thanks)
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:05	there have been situations that curb have been completely overlayed to top of curb.
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:20	If you have a VG adjacent to a barrier (with a flush shoulder) but where the width of VG is needed to meet the shoulder width requirements, is the 8% rollover an issue with
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:21	How should shoulder slope transitions be handled at gores?
Moderator	Response	Mark Fisher (FISHERM@michigan.gov)	11/19/2020 14:27	See MDOT RDM section 3.07.02 B 7 (How should shoulder slope transitions be handled at gores?)
Attendee	Question (Archiv	Anonymous (Unverified)	11/19/2020 14:21	How should shoulder slope transitions be handled at gores?
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:23	has high-friction surface ever been considered as mitigation of super elevation? too much risk?
Attendee	Response	Anonymous (Unverified)	11/19/2020 14:44	say when design exc is needed on 3R (for example) (has high-friction surface ever been considered as mitigation of super elevation? too much risk?)
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:33	Would a DE/DV be needed for a +6.8% super with a -1.2% shoulder (8% rollover)? Design speed is 60 MPH on a 4R project.
Attendee	Response	Anonymous (Unverified)	11/19/2020 15:17	yep... it clears up my question, thank you! (Would a DE/DV be needed for a +6.8% super with a -1.2% shoulder (8% rollover)? Design speed is 60 MPH on a 4R project.)
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:18	You are welcome. Thanks for your question. Your interaction helps make this training more valuable to everyone (Would a DE/DV be needed for a +6.8% super with a -1.2% shoulder (8% rollover)? Design speed is 60 MPH on a 4R project.)
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:36	Would a DE/DV be needed for a +6.8% super with a -1.2% shoulder (8% rollover)? Design speed is 60 MPH on a 4R project.
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:41	has consideration been given to including some of the presentation illustrations in the RDM?

Attendee	Question	Anonymous (Unverified)	11/19/2020 14:41	In the superelvation diagram shown, the high side shoulder transition shown (and 5% value) doesn't match R107
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:44	Nice superelevation visual with the green car and the superelevation!
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:48	3.07.02B 7 Addresses the slopes of the gore not the length of transition needed to transition the mainline or ramp shoulder to meet the gore cross slope
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:55	I liked the illustrative "Elements of Superelevation Transition (Right Curve)" diagram for the RDM, but it would have to be clearly noted "Illustrative" if placed within RDM
Attendee	Question	Anonymous (Unverified)	11/19/2020 14:58	Typically 3R doesn't have enough \$ to fix x-slope, that's why I brought up high-friction (maybe cheap enough)
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:01	We are on break. We will resume at 10:15
Moderator	Announcement	Mark Shulick (ShulickM@michigan.gov)	11/19/2020 15:02	Please take some time to fill out the attached online survey for us: https://forms.microsoft.com/Pages/ResponsePage.aspx?id=h3D71Xc3rUKWaoku9HII0TIgoBv-nwdGiQxrvxV8ZhRUQ0ZMUVYySVgzUFJSSkJZNVdaMUs4T08wUS4u
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:12	Hi - I tried using the MDOT Wiki link for course materials, is that link live yet? I couldn't get in
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:14	We will resume at 10:15 with more on Superelevation
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:15	Welcome back from break
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:15	Hi - I tried using the MDOT Wiki link for course materials, is that link live yet? I couldn't get in
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:17	Yes, the wiki page has been quirky this week. Our apologies. Please try again a little later. We will test it more after this session. Everything should be live and active(Hi - I tried using the MDOT Wiki link for course materials, is that link live yet? I couldn't get in)
Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:17	We are working with our IT support to resolve issues with the DBT site(Hi - I tried using the MDOT Wiki link for course materials, is that link live yet? I couldn't get in)

Moderator	Response	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:41	It is working right now. When you have a chance, check it again. If you have further issues, please recontact us. Thanks for your patience!(Hi - I tried using the MDOT Wiki link for course materials, is that link live yet? I couldn't get in)
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:25	Is a column going to be added for 80 MPH design speed to correlate to the increased 75 MPH freeway sections we have now?
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 15:34	In coming question: "Can you use a delta percent value lower than the ones on the chart?"
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:36	For short length curves with a small deflection the SE transition and super can appear as a hump in the road. Is there any wiggle room to deviate from the chart?
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:43	For old roadways or freeways with a parabolic crown where an HMA overlay is proposed, it is hard to get the super in a straight plane from curb to curb without raising or lowering the curbs or milling a lot of concrete thickness.
Attendee	Question	Kevin Hughes (Unverified)	11/19/2020 15:47	General Question: What if you have an exiting super that that doesn't follow the 1/3 2/3 PC/PT rule, would that count on a Superelevation Transition DV/DE?
Attendee	Question	Anonymous (Unverified)	11/19/2020 15:49	if you use the greater of the "W" values, should the locations for the crown runout, superelevation transitions, and full super all start and stop spot (for an instance with 2 lanes on one side of the crown and one lane on the other)?
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:00	We are working the class exercise right now
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:01	We will resume at 11:15 with the solution and explanation
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:01	Feel free to ask any questions in The Q&A
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:12	We will be working through the problem here in just a few minutes
Attendee	Question	Anonymous (Unverified)	11/19/2020 16:19	So do we use the straight line superelevation chart whenever we are looking for the minimum super allowable?
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:23	We are working Problem #6 now. We will go over the solution at 11:40
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:24	As always feel free to ask quesitons in the Q&A
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:36	We will work the solution in just a few minutes

Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:39	We will go over the solution to Problem #6 now
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:46	We are working Problem #7 now. We will give the solution just before lunch
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 16:56	We will go over the solution soon
Attendee	Question	Anonymous (Unverified)	11/19/2020 17:03	Please can you throw more light on when to use w as 12 or 24
Moderator	Announcement	Julie Townsend (TownsendJ@michigan.gov)	11/19/2020 17:06	We are going to lunch now. We will resume at 1 pm on the PM link