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Col	Field Name	Units	Format	Field Type	Field Width	Dec.	Example Value	Description	Valid Values	Aggregation Process
1	Unique	-	99999999999XX999.999	C	18	3	50200520000NB51.3	Unique Record Identifier for Year to Year comparison		Combination of ROUTEID + BEGMP
2	KEY	-	999999999999	N	12	0	645022900	Identification Key		Identification order (Interstate Order by Route+Dir+Milepoint) (Other Order - County+Route+dir+milepoint)
3	Road	-	XXXXXXXXXXXXX	C	13	0		Numeric representation of Route Identifier (County+system+route+subroute+supp_num + direction)		As provided by Client. FOR SYSTEM 1 & 2 AND ANY OTHER SYSTEM WHERE WE HAVE COLLECTED DIRECTION 5&6 OF THE SAME SECTION
4	ROUTEID	-	XXXXXXXXXXXXX	C	13	0	35104700000WB	Alpha representation of Route Identifier (County+system+route+subroute+supp_num + direction)		As provided by Client. FOR SYSTEM 1 & 2 AND ANY OTHER SYSTEM WHERE WE HAVE COLLECTED DIRECTION 5&6 OF THE SAME SECTION
5	ELEMENT_ID	-	XXXXXXXXXXX›	C	18	0	KANAIS0640000NA	Element Identification Number		(County code - System - Route -Subroute - Supp Code)
6	ELEMENTID	-	XXXXXXXXXXXXXXX	C	20	0		Element Identification Number for dTIMS		RouteID(-From*1000)
7	CO_CODE	-	XXX›	C	4	0	KANA	County Code		First four characters of county name
8	ROUTE	-	XXX›	C	4	0	0064	Route		Route number only (Characters 4,5,6,7 of RouteID)
9	SUBROUTE	-	XX›	C	2	0	00	Sub Route		Subroute number only (Characters 8,9 of RouteID)
10	SYS	-	XX	C	2	0	IS	Alpha representation of System	IS, US, WV, CO, NA, PF, NS, HP, OT	1 = IS, 2 = US, 3 = WV, 4 = CO, 5 = NA, 6 = PF, 7 = NS, 8 = HP, 9 = OT (Derived from Character 3 of RouteID)
11	SUPP_CODE	-	XXXX	C	4	0	00NA	Supplemental Route Designation Code	00NA, 0ALT, 0WYE, SPUR, 00NB, 00SB, 00EB, 00WB, 0NBB, 0SBB, TRTE, BPSS, TOLL, RAMP, OTHR, CITY, 0RUC, FOOT, HIST	(Derived from Characters 10,11 of RouteID)
12	SUPP_DESCR	-	XXXXXXXXXXXXXXX	C	40	0	East	Supplemental Route Designation Description	North, South, West, Business, North Bound (Business), Other, Climbing, Ramp, Spur and Toll	Derived from Supp_Code value.
13	FROM	miles	999.999	N	7	3	5.87	Starting Mile point	WVDOT Beginning Mile point	WVDOT Beginning Mile point
14	TO	miles	999.999	N	7	3	175.551	Ending Mile point	WVDOT Ending Mile point	WVDOT Ending Mile point
15	BEG_MP	miles	999.999	N	7	3	5.87	dTIMS starting Mile point	> 0	dTIMS starting Mile point (always low to high)
16	END_MP	miles	999.999	N	7	3	175.551	dTIMS ending Mile point	> 0	dTIMS ending Mile point (always low to high)
17	LENGTH	miles	9.999	N	5	3	0.096	Length	> 0	Length of Segment
18	DIRECTION	-	XX	C	2	0	EB	Cardinal Direction; Primary - North or East Bound, Secondary - South or West Bound	NB, SB, EB, WB, 00	(Characters 12,13 of RouteID)
19	SURF_TYPE	-	XXX	C	3	0	CON	Surface Type; ASP - Asphalt, CON - Concrete (JCP and CRCP), BRI - Brick, OTH - Other (Gravel)	ASP, CON, BRI, OTH	Most commonly rated surface type for that interval.
20	IRI_MEAN	inches/mile	999.9	N	5	1	79.5	Roughness Average	>= 0, -1	Average of Left and Right IRI (-1 - invalid) - 0-49 = 50, 50-500=as is,501-999=500, >999=-1 - included on bridges, invalidated on Construction and Lane Deviation
21	IRIL	inches/mile	999.9	N	5	1	383.4	Left Roughness	>= 0, -1	Average Left IRI for interval (-1 - invalid) - 0-49 = 50, 50-500=as is,501-999=500, >999=-1 - included on bridges, invalidated on Construction and Lane Deviation

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22	IRIR	inches/mile	999.9	N	5	1	436.6	Right Roughness	>= 0, -1	Average Right IRI for interval (-1 - invalid) - 0-49 = 50, 50-500=as is,501-999=500, >999=-1 - included on bridges, invalidated on Construction and Lane Deviation
23	PSI	-	9.999	N	5	3	4.073	Present Serviceability Index	>= 0, -1	(PSI = 5 * E ^ (-0.0041 * IRI_Mean)) (-1 - invalid)
24	IRI_MAX	inches/mile	999.9	N	5	1	276.8	Maximum Roughness value	>= 0, -1	Maximum of Left and Right Roughness value (-1 - invalid), - included on bridges, invalidated on Construction and Lane Deviation
25	IRI_MEAN_PREV	inches/mile	999.9	N	5	1	307.3	Roughness Average from Previous Year Collection	>= 0, -1	Average of Left and Right IRI for the previous year (-1 - invalid)
26	RUT_MEAN	inches	9.99	N	4	2	0.53	Rutting Average	>= 0, -1	Average of Left and Right Rutting Value (-1 - invalid) invalidated on Bridge, Construction, Deviation
27	RUT_MAX	inches	9.99	N	5	2	1.79	Rutting Maximum value	>= 0, -1	Maximum of Left and Right Rutting Value (-1 - invalid) invalidated on Bridge, Construction, Deviation
28	JFAULT_L	%	99	N	2	0	3	Percent of Joint Faulting with Low severity	> = 0	Sum of Low Severity (% of slabs exhibiting faulting) +/- 0.1 to 0.2 - Depends on pavement type.
29	JFAULT_M	%	99	N	2	0	6	Percent of Joint Faulting with Moderate severity	> = 0	Sum of Moderate Severity (% of slabs exhibiting faulting) +/- 0.3 to 0.4 - Depends on pavement type.
30	JFAULT_H	%	99	N	2	0	2	Percent of Joint Faulting with High severity	> = 0	Sum of High Severity (% of slabs exhibiting faulting) +/- 0.41 to 1.2 - Depends on pavement type.
31	FAULT_CNT	Count	999	N	3	0	14	Number of Joints with Faulting	> = 0	Count of all joints with faulting.
32	FRUTSD	-	9.99	N	4	2	0.59	Standard deviation rutting value	>= 0, -1	1 - invalid), invalidated on Construction and Lane Deviation
33	FTEXRMS	-	9.999	N	5	3	1.489	Root Mean Square of Texture Depth	>= 0, -1	Average of values of interval, (-1 - invalid), invalidated on Construction and Lane Deviation
34	FTEXMTD	-	9.999	N	5	3	1.474	Mean Texture Depth	>= 0, -1	Average of values of interval, (-1 - invalid), invalidated on Construction and Lane Deviation
35	SHLD_TYPE	-	XXXX	C	5	0	PAVED	Shoulder Type	None, Curb, Earth, Paved, Grave, Combo	Most commonly rated shoulder type for the interval
36	FALLIG_L	%	999	N	3	0	19	Alligator Cracking Low	> = 0	Alligator Cracking - Low Severity (Percentage of total wheelpah area)
37	FALLIG_M	%	999	N	3	0	20	Alligator Cracking Moderate	> = 0	Alligator Cracking - Moderate Severity (Percentage of total wheelpah area)
38	FALLIG_H	%	999	N	3	0	5	Alligator Cracking High	> = 0	Alligator Cracking - High Severity (Percentage of total wheelpah area)
39	FLONG_L	%	999	N	3	0		Longitudinal Cracking Low	> = 0	Longitudinal cracking - Low severity (% wheelpath crack affected area)
40	FLONG_M	%	999	N	3	0		Longitudinal Cracking Moderate	> = 0	Longitudinal cracking - Moderate severity (% wheelpath crack affected area)
41	FLONG_H	%	999	N	3	0		Longitudinal Cracking High	> = 0	Longitudinal cracking - High severity (% wheelpath crack affected area)
42	FTRANS_L	%	999	N	3	0		Transverse Cracking Low	> = 0	Transverse cracking - Low severity (% lane crack affected area)
43	FTRANS_M	%	999	N	3	0		Transverse Cracking Moderate	> = 0	Transverse cracking - Moderate severity (% lane crack affected area)

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44	FTRANS_H	%	999	N	3	0		Transverse Cracking High	> = 0	Transverse cracking - High severity (% lane crack affected area)
45	FBLOCK_L	%	999	N	3	0		Block Cracking Low	> = 0	Block cracking - Low severity (Percentage of the total lane area)
46	FBLOCK_M	%	999	N	3	0		Block Cracking Moderate	> = 0	Block cracking - Moderate severity (Percentage of the total lane area)
47	FBLOCK_H	%	999	N	3	0		Block Cracking High	> = 0	Block cracking - High severity (Percentage of the total lane area)
48	JNT_DISTL	%	999	N	3	0		Longitudinal Joint Distress	> = 0	Longitudinal Joint Distress - One severity (% of slabs showing longitudinal joint distress)
49	JNT_DISTT	%	999	N	3	0		Transverse Joint Distress	> = 0	Transverse Joint Distress - One severity (% of slabs showing transversel joint distress)
50	JNT_COUNT	-	99999999	N	8	0	7	Joint Count	>=0	Joint Count
51	SLAB_COUNT	-	99999999	N	8	0	4	Slab Count	>=0	Slab Count
52	BRSLBTR_L	%	999	N	3	0		Broken Slab Trans Low	> = 0	Broken Slabs - Transverse only low severity (% of slabs exhibiting condition)
53	BRSLBTR_M	%	999	N	3	0		Broken Slab Trans Moderate	> = 0	Broken Slabs - Transverse only moderate severity (% of slabs exhibiting condition)
54	BRSLBTR_H	%	999	N	3	0		Broken Slab Trans High	> = 0	Broken Slabs - Transverse only high severity (% of slabs exhibiting condition)
55	BRSLBTRL_L	%	999	N	3	0		Broken Slab Trans & Long Low	> = 0	Broken Slabs - Transverse & Longitudinal low severity (% of slabs exhibiting condition)
56	BRSLBTRL_M	%	999	N	3	0		Broken Slab Trans & Long Moderate	> = 0	Broken Slabs - Transverse & Longitudinal moderate severity (% of slabs exhibiting condition)
57	BRSLBTRL_H	%	999	N	3	0		Broken Slab Trans & Long High	> = 0	Broken Slabs - Transverse & Longitudinal high severity (% of slabs exhibiting condition)
58	LESEAM_L	%	999	N	3	0	25	Left seam low	> = 0	% of seams that are Low
59	LESEAM_M	%	999	N	3	0	25	Left seam medium	> = 0	% of seams that are medium
60	LESEAM_H	%	999	N	3	0	50	Left seam high	> = 0	% of seams that are high (sum of l,m,h must be <= 100% . Should not go over 100%)
61	RESEAM_L	%	999	N	3	0	40	Right seam low	> = 0	% of seams that are Low
62	RESEAM_M	%	999	N	3	0	40	Right seam medium	> = 0	% of seams that are medium
63	RESEAM_H	%	999	N	3	0	20	Right seam high	> = 0	% of seams that are high (sum of l,m,h must be <= 100% . Should not go over 100%)
64	SCI	-	99.999	N	6	3	4.462	Structural Cracking Index	0 - 5, -1	Structural cracking index MAX(MIN(5-(0.21*(fallig_l^0.67))-(0.24*(fallig_m^0.69))-(0.40*(fallig_h^0.80))-(0.28*(flong_l^0.73))-(0.32*(flong_m^0.75))-(0.60*(flong_h^0.89)),5),0)
65	ECI	-	99.999	N	6	3	4.095	Environmental Cracking Index	0 - 5, -1	Environmental cracking index MAX(MIN(5-(0.32*(ftrans_l^0.75))-(0.40*(ftrans_m^0.80))-(0.60*(ftrans_h^0.89))-(0.24*(fblock_l^0.69))-(0.28*(fblock_m^0.73))-(0.40*(fblock_h^0.80)),5),0)
66	RDI	-	99.999	N	6	3	4.874	Rut Depth Index	0 - 5, -1	MAX(MIN(5-(6.65*(frut_mean^1.41)),5),0)

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67	JCI	-	99.999	N	6	3	3.448	Joint Condition Index	0 - 5, -1	MAX(MIN(5-(0.13*(jfault_l^0.56))-(0.16*(jfault_m^0.60))-(0.17*(jfault_h^0.62))-(0.13*(jnt_distr^0.56)),5),0)
68	CSI	-	9999.999	N	8	3	1.663	Concrete Slab Index	0 - 5, -1	Concrete slab index (MIN(5-(0.13*(brslbtr_l^0.56))-(0.17*(brslbtr_m^0.62))-(0.20*(brslbtr_h^0.65))-(0.20*(brslbtrl_l^0.65))-(0.28*(brslbtrl_m^0.73))-(0.40*(brslbtrl_h^0.80)),5),0)
69	NCI		9999.999	N	8	3	1.386	Net Cracking Index	0 - 5, -1	MAX(MIN((sci+eci)-5,5),0)
70	NODISTRESS		1	N	1	0	1	No Distress	0 , 1	No distress flag 0/1
71	GPSLongS	decimal degrees	-99.9999999999	N	14	10	-77.8303650644	GPS Longitude Start		GPS Starting Longitude Co-ordinate (-decimal degrees)
72	GPSLongE	decimal degrees	-99.9999999999	N	14	10	-77.8328912951	GPS Longitude End		GPS Ending Longitude Co-ordinate (-decimal degrees)
73	GPSLatS	decimal degrees	99.9999999999	N	13	10	39.5846824391	GPS Lattitude Start		GPS Starting Latitude Co-ordinate (decimal degrees)
74	GPSLatE	decimal degrees	99.9999999999	N	13	10	39.5846156451	GPS Lattitude End		GPS Ending Latitude Co-ordinate (decimal degrees)
75	GPS_ELEVS	feet	9999.9	N	6	1	3140.1	GPS Starting Elevation		GPS Starting Elevation
76	GPS_ELEVE	feet	9999.9	N	6	1	3150.1	GPS Ending Elevation		GPS Ending Elevation
77	IRI_FLAG	-	9	C	1	0	1	Data Exception - Roughness	0 , 1	Invalid or Low speed roughness data flag (1 or 0)
78	RUT_FLAG	-	9	C	1	0	0	Data Exception - Rutting	0 , 1	Invalid rutting data flag (1 or 0). Rutting invalidated on Construction, Lane Deviation, Bridges, and Railroad Crossings
79	WET	-	9	C	1	0	0	Data Exception - Wet	0 , 1	Wet Road flag (1 or 0)
80	BRIDGE	-	9	C	1	0	1	Data Exception - Bridge	0 , 1	Bridge flag (1 or 0)
81	CONSTR	-	9	C	1	0	0	Data Exception - Construction	0 , 1	Construction flag (1 or 0)
82	LANEDEV	-	9	C	1	0	1	Data Exception - Lane Deviation Flag	0 , 1	Lane Deviation flag (1 or 0)
83	RAILWAY	-	9	C	1	0	0	Data Exception - Railway	0 , 1	Railway flag (1 or 0)
84	WIDTHFLAG	-	9	N	1	0	1	Data Exception - Width	0 , 1	Width flag (1 or 0)
85	DUAL_PV	-	9	N	1	0	1	Data Exception - Dual Pavement Type	0 , 1	Dual Pavement Type flag (1 or 0)
86	FILENAME	-	XXXXXX›	C	8	0	16Q06900	Visidata Field - ARAN Filename		Most common
87	DIST	-	X	C	1	0	9	District	1,2,3,4,5,6,7,8,9,0	Most common
88	COUNTY	-	X›	C	2	0	54	County		County number (Characters 1,2, of RouteID)
89	SIGN_SYS	-	X	C	1	0	1	Sign System	1,2,3,4,7	Character 3 of RouteID
90	SUPP_NUM	-	X›	C	2	0	15	Supplemental Route Designation Number	00 to 22	Characters 10, 11 of RouteID
91	CO_DESC	-	XXXXXXXXXXX›	C	15	0	KANAWHA	County Description		Full county name
92	RTE_NUM	-	XXXXX›	C	6	0	007700	Route Number		Route number and subroute number
93	LANE	-	X	C	1		1	Collection Lane; Outside lane is 1	1	Most common
94	FEDAIDDESC	-	XXXXXXXXXXXXXX	C	45	0	Interstate	Federal Aid System Description; Interstate, NHS		Most common
95	WVAFUNDESC	-	XXXXXXXXXXXXXX	C	50	0	Expressway	West Virginia Legal Functional Classification Description; Expressway, collector, land access		Most common
96	URBAN_AREA	-	XXXXXXXXXX›	C	35	0		Urban Area; City		Most common
97	TYPFACDESC	-	XXXXXX	C	7	0	Two way	Type of Facility Description; One or two way traffic		Most common
98	VIDEODRIVE	-	XXXXXXXXXX›	C	20	0		Video Drive		Video drive path location (Intentionally left blank)
99	CCI		9999.999	N	8	3	0.997	Composite Condition Index	0- 5	Surf_type=ASP MIN(psi,sci,eci,rdi), Surf_type=CON MIN(psi,jci,csi)

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100	Date	-	dd/mm/yyyy	C	10	0	25/06/2016	Collection Date		
101	FSORT	-	XXXXXXXXXXXXXXX	C	16	0	0020000NA00CABE1	Used for Sorting		Is defined as; [ROUTE]+[SUBROUTE]+[SUPP_CODE]+[DIRECTION]+[CO_CODE]+[LANE]
102	VISIROUTE	-	XX9999ς	C	7	0	WV00200	Historical Visidata field	Historical Visidata field	Manipulated in SQL manager.
103	VISIMILE	-	999.999-999.999	C	x	x	000.800-000.900	Historical Visidata field	Historical Visidata field	Manipulated in SQL manager.
104	VISI_BMP	-	99999	N	5	0	835	Historical Visidata field	Historical Visidata field	Manipulated in SQL manager.
105	VISI_EMP	-	99999	N	5	0	935	Historical Visidata field	Historical Visidata field	Manipulated in SQL manager.
106	VISI_DIR	-	9	C	1	0	5	Historical Visidata field	Historical Visidata field	Manipulated in SQL manager.
107	COND_YEAR	-	9999	N	4	0	1975	Collection Year	2016	Derived from the date field
108	Status	-	XXXXX	C	50	0	Matched	Status		Database Populated for iVISION
109	IDLocator	-	9	N	10	0	1	Section identifier for FRDW iVision hosting		Database Populated for iVISION
110	IDSession	-	9	N	10	0	1	File identifier for FRDW iVision hosting		Database Populated for iVISION
111	BeginDistanceStamp	metres	999.99999	N	~	~	1.123	Collected distance identifier for FRDW iVision hosting		Database Populated for iVISION. Value not to be altered
112	EndDistanceStamp	metres	999.99999	N	~	~	4.456	Collected distance identifier for FRDW iVision hosting		Database Populated for iVISION. Value not to be altered
113	BeginChainage	millimiles	999.99999	N	~	~	1.123	Client distance identifier for FRDW iVision hosting		Database Populated for iVISION. Value not to be altered
114	EndChainage	millimiles	999.99999	N	~	~	4.456	Client distance identifier for FRDW iVision hosting		Database Populated for iVISION. Value not to be altered
115	Lanewidth	feet	999.999	N	3	3	10.943	Width of Driving Lane	5 - 13	aggregated as an average of height per tenth mile
116	Percent_Cracking	%	999.999	N	10	3	5.597	Percentage of Road exhibiting cracking	0 - 100	on CON calculated as (BRSLBTR_L + BRSLBTR_M + BRSLBTR_H) on ASP calculated as (4/[Lanewidth])*([FALLIG_L]+[FALLIG_M]+[FALLIG_H])
117	Fault_Avg	inches	9.999	N	10	3	0.498	Average fault height on Concrete roads		aggregated as an average of height per tenth mile
118	Cracking_Length	feet	999.999	N	10	3	126.008	Length of cracks in wheelpath area		aggregated sum of all rated distess in wheelpath area
119	FKEY	-	9	N	5	0	125	Used as a sorting reference field		