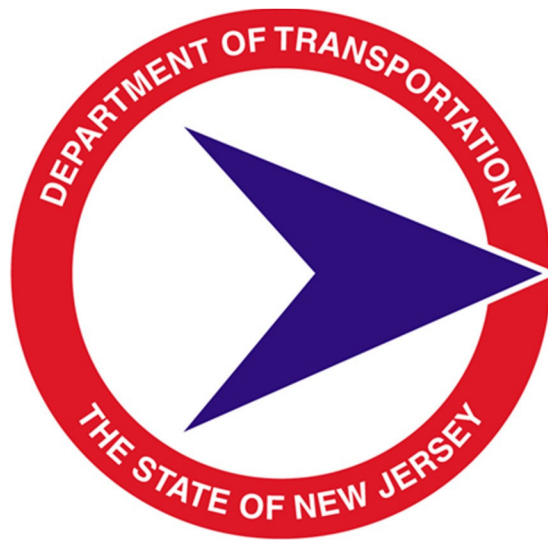


RIDE QUALITY PAY ADJUSTMENT PROCEDURE



By:
Haidy Abdu

PAVEMENT & DRAINAGE MANAGEMENT

This presentation contains necessary information to assist Pavement Management personnel in calculating ride quality pay adjustment for projects.

RAW Data

It will be generated by the field staff after testing and submitted in excel format. It will contain: IRI of both wheel paths computed at every 0.01 mile intervals, speed limits averaged at every 0.01 mile reported segment with proper file name. It will be stored on S drive → Pavement and Drainage → PvmTech → Ride Quality XXXX " XXXX "stand for four digit current year.

S:\Pavement and Drainage\PvmTech\Ride Quality 2017

International Roughness Index (IRI)

Roughness-the deviation of a surface from a true planar surface with characteristic dimensions that affects vehicle dynamics and ride quality.

International Roughness Index is an index used to define a characteristic of the longitudinal profile of a traveled wheeltrack and constitutes a standardized roughness measurement.

Ride Quality Requirements.

The ride quality requirements of a project is specified in the Standard Specifications/ Addendum in section 105.04 of the contract.

The Department will evaluate the HMA surface course using the **International Roughness Index (IRI)** according to ASTM E 1926. The Department will use the measured IRI to compute the appropriate **pay adjustment (PA) to the contractor.**

The pay adjustment equation provided in section 105.04 of the contract specifications for the proposed treatment will be used to calculate PA for a project.

The PA may be positive for superior quality work or negative for defective work.

The lot size for ride quality PA will be 0.01 mile. Total length of the project will be divided into 0.01 mile lot size. Staff calculating PA should review the video to establish the starting and ending lot. Next lot after transition of new and old pavement should be considered as a beginning lot for PA. Similarly, a lot before the transition of new pavement to old pavement should be considered as last lot for PA. The PA for ramp, and shoulder will be calculated, if tested on request of the Resident Engineer (RE).

Ride Quality Testing

RE who would like to request Pavement Ride ability testing will need to **complete and submit the online form.** "<http://www.state.nj.us/transportation/eng/pavement/pavementform.shtm>" If RE submit test request through email to individual person, RE should be advised to submit request through online request to ensure that all required information are collected before field staff schedule the testing.

STATE OF NEW JERSEY
DEPARTMENT OF TRANSPORTATION
 Chris Christie, Governor | Kim Guadagno, Lieutenant Governor

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Pavement & Drainage Management and Technology

Ride Quality Requirements

Ride Quality Testing
 The form below is for Resident Engineers who would like to request IRI Pavement Rideability testing.

***Signifies a Required Field**

Resident Engineer Contact Information

*Name:

*Email Address:

*Cell Phone #: Ex: XXX.XXX.XXXX

*Office Phone #: Ex: XXX.XXX.XXXX

*Best Method for Contact: Email Cell Phone Office Phone Any

*Best Hours for Contact: Between and

Project Information

*Official Project Name:

*Job Number:

*Prime/Paving Contractor:

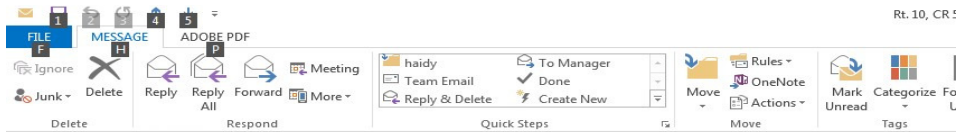
Project Specifics

	*Pavement/ Structure:	*Date Constructed:	*Route:	*Direction:	*Milepost From: To:	*Lane ID:	*# of Paving Lanes:	*Surface Course Mix:
1.	-- Choose One --	<input type="text"/>	<input type="text"/>	----	<input type="text"/> <input type="text"/>	<input type="text"/>	--	<input type="text"/>
2.	-- Choose One --	<input type="text"/>	<input type="text"/>	----	<input type="text"/> <input type="text"/>	<input type="text"/>	--	<input type="text"/>
3.	-- Choose One --	<input type="text"/>	<input type="text"/>	----	<input type="text"/> <input type="text"/>	<input type="text"/>	--	<input type="text"/>

Additional Comments

A. Create Paper File Folder:

1. Initial test request, print this from Pavement Rideability mailbox.
2. Project's Ride quality spec from Bidex check for Addendums, **if not provided by the RE.**
3. Your video review notes, from ICC Imaging viewer, including paving
4. Starts/stops/breaks/events, anything excluded per the specifications
5. Record of any conversations, phone calls, etc, w/ RE or Designer/contractor.
6. Copy of approved revised spec i.e. change in target IRI or exclusions, if ride quality specifications was modified after award of project "Change Order". Save all related emails or letters in the file.
7. Copy of faxed results to RE, including fax/memo cover sheet and 'confirmation of sent fax' page.



Mon 8/21/2017 11:59 AM
Jayendra.Patel@dot.nj.us
Rt. 10, CR 508 (W. Northfield Avenue) to

To: Pavement Rideability, DOT; Kanka, Mark

You replied to this message on 8/23/2017 11:19 AM.

Entry 1 Date Constructed: various

Entry 1 Route: 10

Entry 1 Direction: East

Entry 1 Milepost From: 18.91

Entry 1 Milepost To: 20.52

Entry 1 Lane: Lt

Entry 1 # of Paving Lifts: 1

Entry 1 Surface Course Mix: 12.5M64

Entry 2 Pavement/Structure: Pavement

Entry 2 Date Constructed: various

Entry 2 Route: 10

Entry 2 Direction: West

Entry 2 Milepost From: 18.91

Entry 2 Milepost To: 20.52

Entry 2 Lane: Lt

Entry 2 # of Paving Lifts: 1

Entry 2 Surface Course Mix: 12.5M64

Entry 3 Pavement/Structure: Pavement

Entry 3 Date Constructed: various

Entry 3 Route: 10

See more about Jayendra.Patel@dot.nj.us.

B. Create Electronic Files:

1. Create a project folder on S drive:

S:\Pavement and Drainage\PvmtTech\IRI Pay Adjustment\Projects\IRI 2017

2. **Folder/ File** should be named as below:

(i) Create a main folder every year and name it as "IRI xxxx" Replace xxxx with the four digits of year. Ensure a blank space between IRI and XXXX. For Example:- IRI 2017

(ii) Create project folders under above folder. Name the Project folder as below:

For CPM Projects-Project Name from BidX_MPXX-YY_DP#XXXXX

Note- Begin project name with "RteAAA" and do not repeat Route number in project name.

For Example:- Rte 057 Port Murray Rd. to Calremont Rd_MP 14.52-18.66_DP#16125

Maintenance Projects: MRRC_ContractID_Routes in Contract"

Example: MRRC_ C108_ Rte001 Rte029 Rte202NB

Note: keep one blank space after every route

(iii) File should be name as below:

Resurfacing Projects:

“RteXXX_DP#YYYYY_Status_Date”

Status-Final/Revised/Preliminary....etc.

Status for the first results sent out from a file should be BLANK except preliminary. If results are preliminary pending final testing can be used in first version of PA file.

Date should be in following format- April 1st, 2017 should be 04012017

Example: RteXXX_DP#16125_Final_09152017

FOR MRRC Projects

MRRC_ContractID_ RtXXX_Status(if required)_Date

Status-Final/Revised/Preliminary....etc.

Status for the first results sent out from a file should be BLANK. except preliminary If results are preliminary pending final testing can be used in first version of PA file. Date should be in following format- April 1st, 2017

should be 04012017

For Example: MRRC_C-108_Rte001_Final_09122017

- The team leader of field testing crew should store the Raw data on shared drive at the following location. An email regarding the availability of data should be sent to the team leader of PA calculation:

S:\Pavement and Drainage\PvmtTech\Ride Quality XXXX. XXXX is the four digits of year.



Note: Due to potential for virus from flash drive, data in USB drive will not be accepted without prior approval from the Manager or Supervising Engineer.

- Once the team leader of PA calculation received an email from the field crew, the raw data should be copied and pasted to Q drive at the following location:

Q:\PMS DATA\Dynatest Project Data_17 DYNATEST_IRI_SPECIALS

Note: An annual folder should be created at the beginning of year with name “YYYY_Dynatest_IRI_Specials

- Team leader of PA calculation or assigned person should search for the following information from Tracking folder in S:\ drive or Bidx as explained below.

-Ride Quality Specification

-Typical Section/Construction plans to determine any addendum or COP (change of Plan)/verify the treatment.

-Bid Summary to determine bid price of the contract.

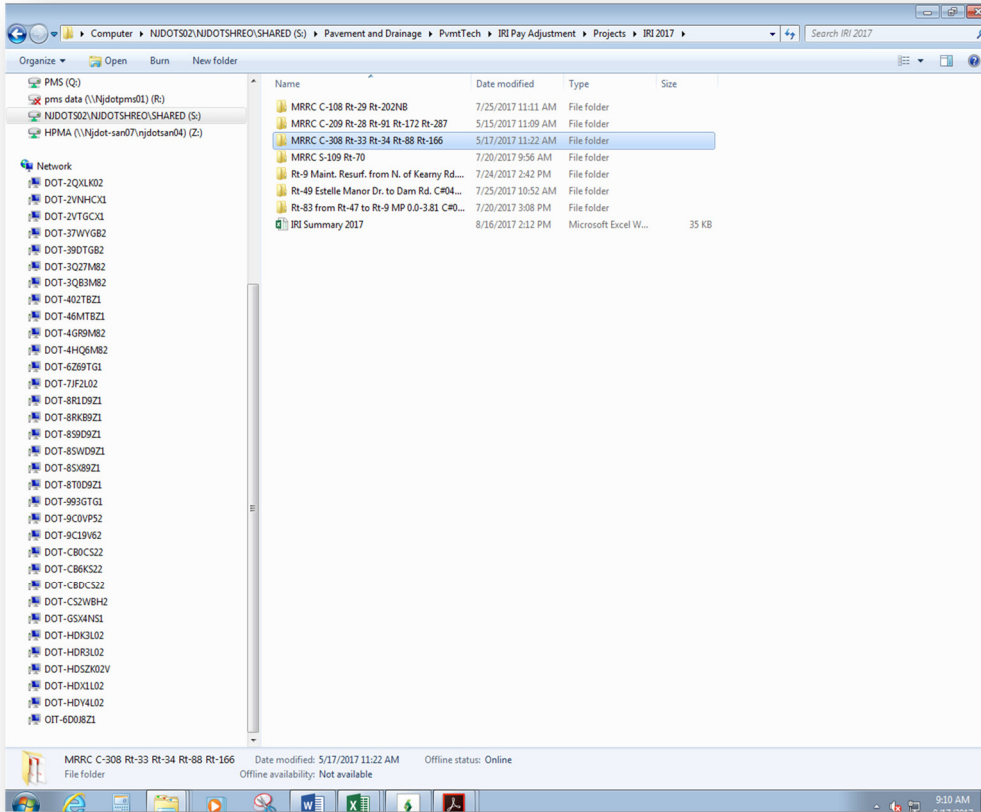
-Project folder under pavement design on S:\ drive to verify any revision in exclusions or target IRI, email related with the changes and discuss with the pavement designer to verify these are applicable for the project.

A copy of a ride quality specifications and bid summary and typical section should be saved in the ride quality PA project folder created in step XXXX. Follow following steps to search above information:

Project's contract information- Locate the project in the tracking system (letting date) at the following location:

Tracking: [S:\Pavement and Drainage\PvmtTech\Tracking\TRAX_2017](#)

Pave _FY-XXXX



Search for the letting date:

Pave_FY-17 - Excel

MRRRC Central Sub Region3 Contract C308 DP15435

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
34	Rt 168 Bridge Over Big Timber Creek. LPC 053270 DP16132	0.54	0.84	0.3	4	1.10	Camden	AP Constructio n Inc.	\$4,468,555.00	\$412,788.00		11/7/2016	10/20/2016	FLANS_FY-17DPF_B132	7/2/2019	2,084
36	Rt 57 Port Murray Rd to Claremont Rd LPC 124230 DP16125	14.52	18.66	4.14	2	8.70	Warren	Intercounty Paving Assoc	\$2,787,000.00	1,665,000.76		11/21/2016	10/25/2016	FLANS_FY-17DPF_B125	11/17/2017	15873
38	Rt 10 CR588 toMerlin Ave/Kelly Drive LPC 143650 DP16117	18.91	21.94	3.03	3	9.20	Essex	Schifano Constructio n	\$2,333,087.69			12/8/2016	FLANS_FY-17DPF_B117	5/21/2018	10,300	
40	MRRRC Central Sub Region3 Contract C308 DP15435						Monmouth Ocean					12/8/2016	FLANS_FY-17DPF_B435	10/6/2017	52486	
41	33 EB	28.90	31.10	2.2	1	2.60										
42	33 NB	29.36	31.10	1.94	1	2.90										
43	33 Both	36.34	36.95	0.61	4	2.80										
44	34 NB	0.15	4.10	3.95	2	8.20										
45	34 EB	0.15	1.61	1.46	5	8.20										
46	34 Both	0.00	0.15	0.15	5	0.80										
47	34 Both	10.30	12.00	1.70	2	3.4										
48	68 Both	0.00	2.00	2.00	2	4.00										
49	166 Both	0.08	1.63	1.55	2	2.70										
51	Rt 206 Hi Glen Dr. to High Street LPC 114170 DP16119	99.6	103.02	3.42	3	8.10	Sussex					12/22/2016	FLANS_FY-17DPF_B119	10/24/2017	19791	
53	Rt 17 NB Linwood Avenue to Lake Street LPC 153680 DP16138	16.48	22.88	6.4	3	19.20	Bergen					1/10/2017	FLANS_FY-17DPF_B138	1/20/2017	45600	
55	Maintenance Resurfacing Rt-9 North of Keeney Rd to Ellis View/ Thomas Edison Bridge C# 130123940 DP15436	130.93	131.87	0.94	5	5.20	Middlesex					1/24/2017	FLANS_FY-17DPF_B431	8/11/2017	11732	
57	Rt-152 Bay Ave. to Seaview Dr., Contract #000143710, LPC #143710, DP#16113	0	3.16	3.16	2	6.40	Atlantic	Arawak Paving Co Inc	\$2,079,000.00	\$718,668.50		2/8/2017	1/12/2017	FLANS_FY-17DPF_B113	3/15/2017	8900
58	Rt-322 from Rt-47 (Delsea Dr.) to Curtis Ave., Contract# 018143620, LPC# 143620, DP# 16118	18.25	24.09	5.84	2	11.80	Gloucester	South State, Inc.	\$2,332,613.10	\$1,545,228.85		2/8/2017	1/12/2017	FLANS_FY-17DPF_B118	11/16/2017	20921

Sheet1 Sheet2 Sheet3 Sheet4

READY AVERAGE: 46070.66667 COUNT: 9 SUM: 138212 8:51 AM 8/17/2017

- Obtain more information about the project from Bid Express : <https://www.bidx.com/nj/lettings>
- Using the following log in :

Email: trnsport.bidx5@dot.state.nj.us

Password: [useraccess5](#)

Letting Date	Letting ID	Proposals
August 31, 2017	17083101	1
August 8, 2017	17080801	1
July 20, 2017	17072001	1
July 13, 2017	17071301	2
July 6, 2017	17070601	2
June 27, 2017	17062701	4
June 22, 2017	17062201	6
June 20, 2017	17062001	4
June 15, 2017	17061501	1
June 13, 2017	17061301	3
June 8, 2017	17060801	5
June 6, 2017	17060601	1
June 1, 2017	17060101	6
May 25, 2017	17052501	2
May 23, 2017	17052301	3

- Click on the matching letting date and DP number

Proposal 15435

Maintenance Roadway Repair Contract Central, Sub-Region C-3, Contract No. C308, DP 15435 Routes 33 EB & WB, 34 NB & SB, 88, and 166 in Monmouth and Ocean Counties

Date Generated: 11/07/2016
Date Revised:
Call Order: 435
Items: 90
Project ID: STATE

Sections: 1
Amendments: 0
Highway Number:
Countries: MONMOUTH OCEAN

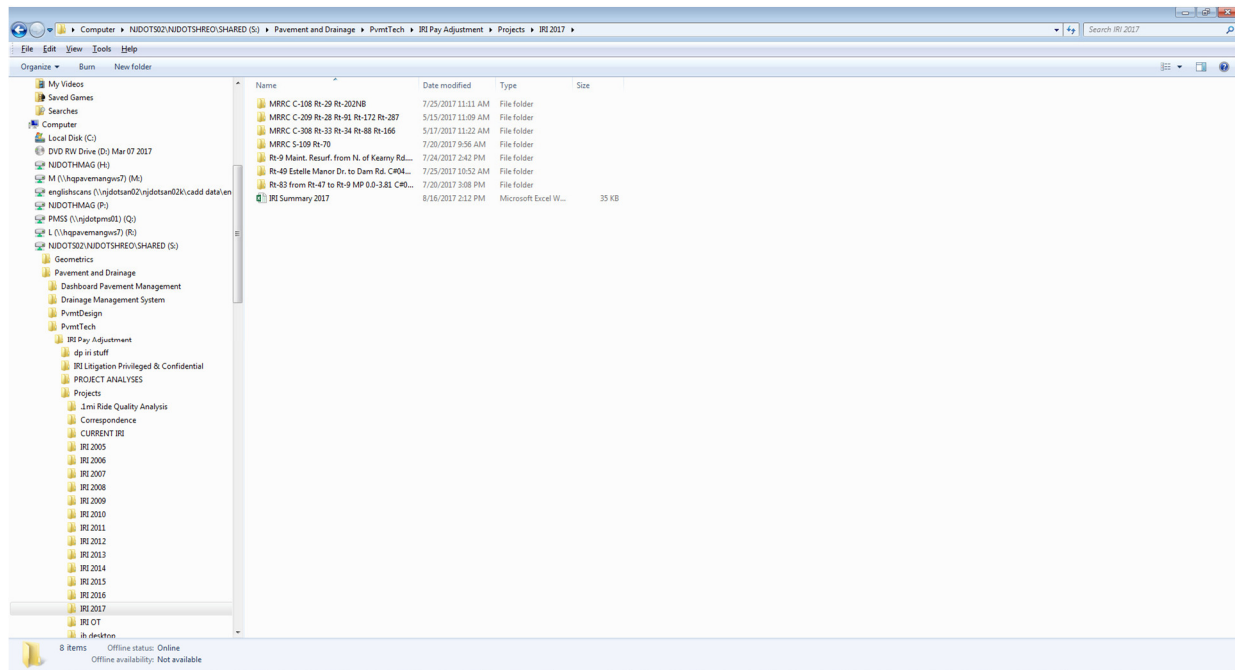
November 30, 2016 04:54 PM EST
Addendum No. 1 has been posted.

Line	Item	Quantity	Unit	Description	Price
Section 0001: Roadway					
0001	151006M	1.000	DOLL	PERFORMANCE BOND AND PAYMENT BOND	
0002	152004P	1.000	DOLL	OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE	
0003	152012P	1.000	DOLL	RAILROAD PROTECTIVE LIABILITY INSURANCE	
0004	152015P	1.000	DOLL	POLLUTION LIABILITY INSURANCE	
0005	153009P	1.000	LS	BAR CHART PROGRESS SCHEDULE AND UPDATES	
0006	154003P	1.000	LS	MOBILIZATION	\$50,000.00000
0007	155006M	1.000	U	FIELD OFFICE TYPE B SET UP	
0008	155024M	10.000	MO	FIELD OFFICE TYPE B MAINTENANCE	

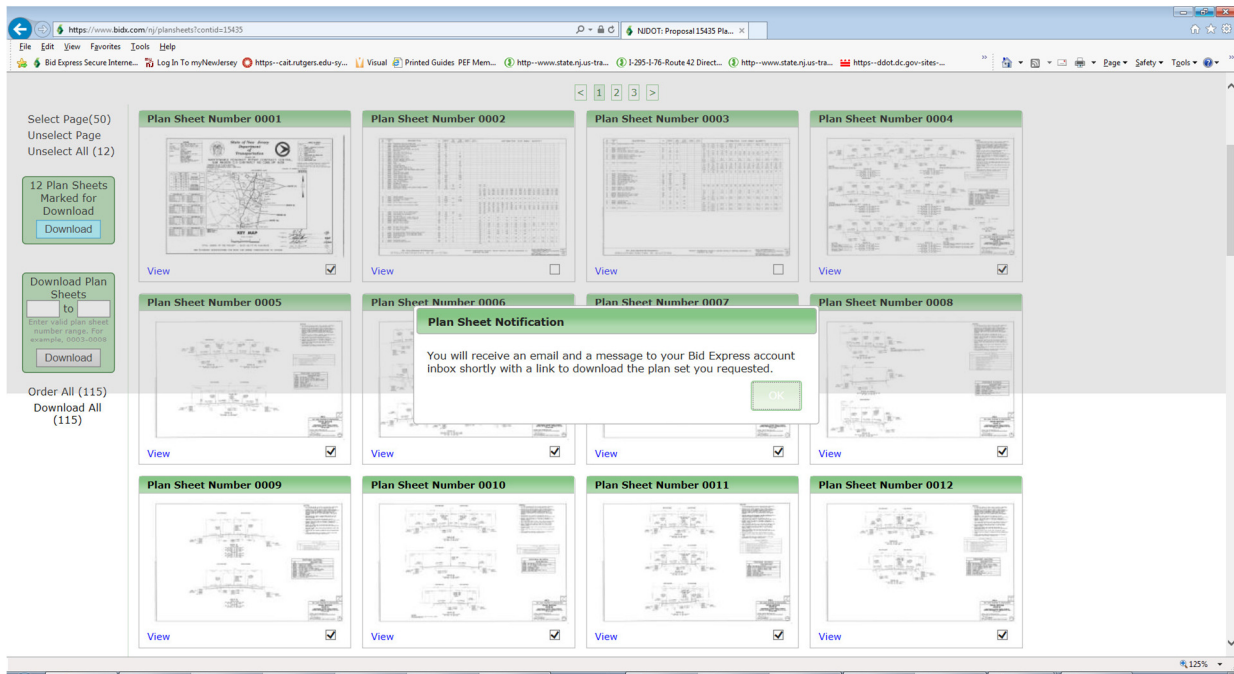
- First** check Addenda to make sure no change for ride quality (table) and/or check with RE if any changes orders occurred for ride quality.
- Next** identify the specification – special provision- check 400- table 401.03.03-7 (pay equations for ride quality)

	WB Lane 1 – 2	
	WB Lane 2 – 8	
	NB Lane 1 – 15	
Route 34 NB from M.P. 0.00 to M.P. 4.10	NB Lane 2 – 12	
And	NB Lane 3 – 9	PA=PAE ; Target IRI (T) = 66 Inch/Mile
Route 34 SB from M.P. 1.61 to M.P. 0.00	NB Lane 4 – 2	
	SB Lane 1 – 7	
	SB Lane 2 – 2	
Route 34 NB & SB from M.P. 10.30 to M.P. 12.00	NB Lane 1 – 1	PA=PAE ; Target IRI (T) = 66 Inch/Mile
	SB Lane 1 – 1	
Route 88 EB & WB from M.P. 0.00 to M.P. 2.00	EB Lane 1 – 16	PA=PAE ; Target IRI (T) = 72 Inch/Mile
	WB Lane 1 - 12	
Route 166 NB & SB from M.P. 0.08 to M.P. 1.63	NB Lane 1 – 23	PA=PAE ; Target IRI (T) = 76 Inch/Mile
	SB Lane 1 - 18	
All Ramps and Shoulders and		IRI ≤ 120 PA = S0

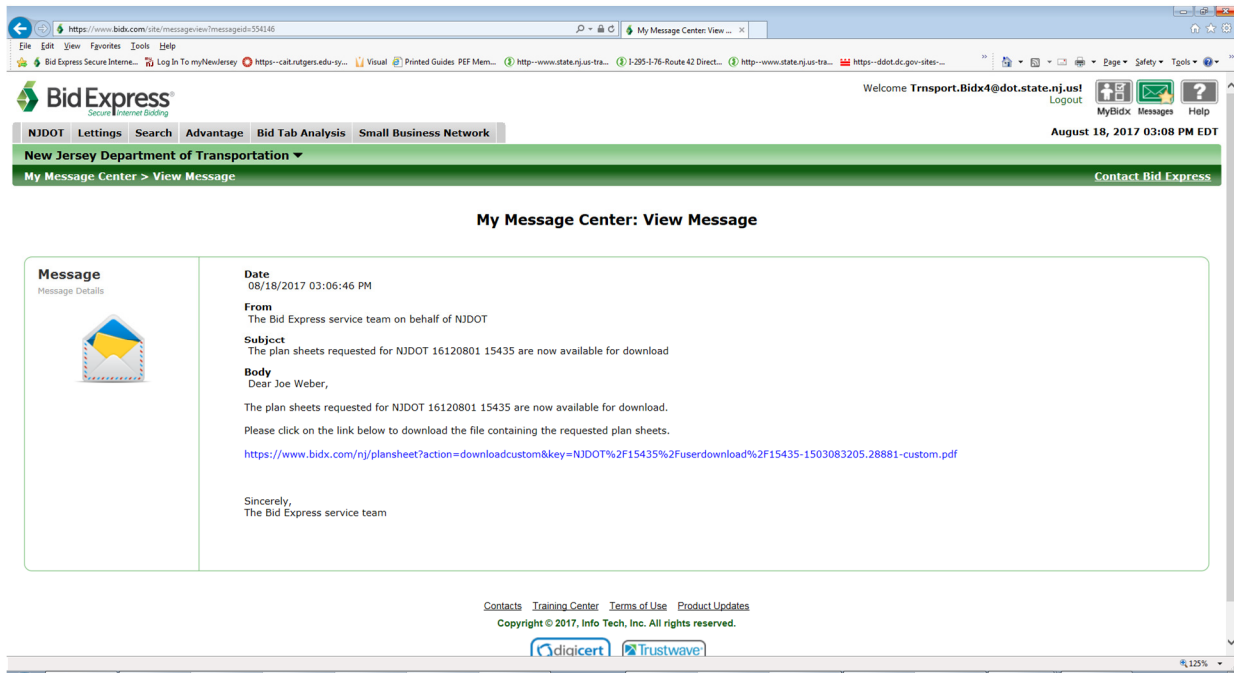
- Check the record of any conversation to make sure that no change on the target IRI Value.
- Print a hard copy of the IRI table.
- **Then** create a PDF format for this table and save it under project folder on the share drive
<S:\Pavement and Drainage\PvmtTech\IRI Pay Adjustment\Projects\IRI 2017>



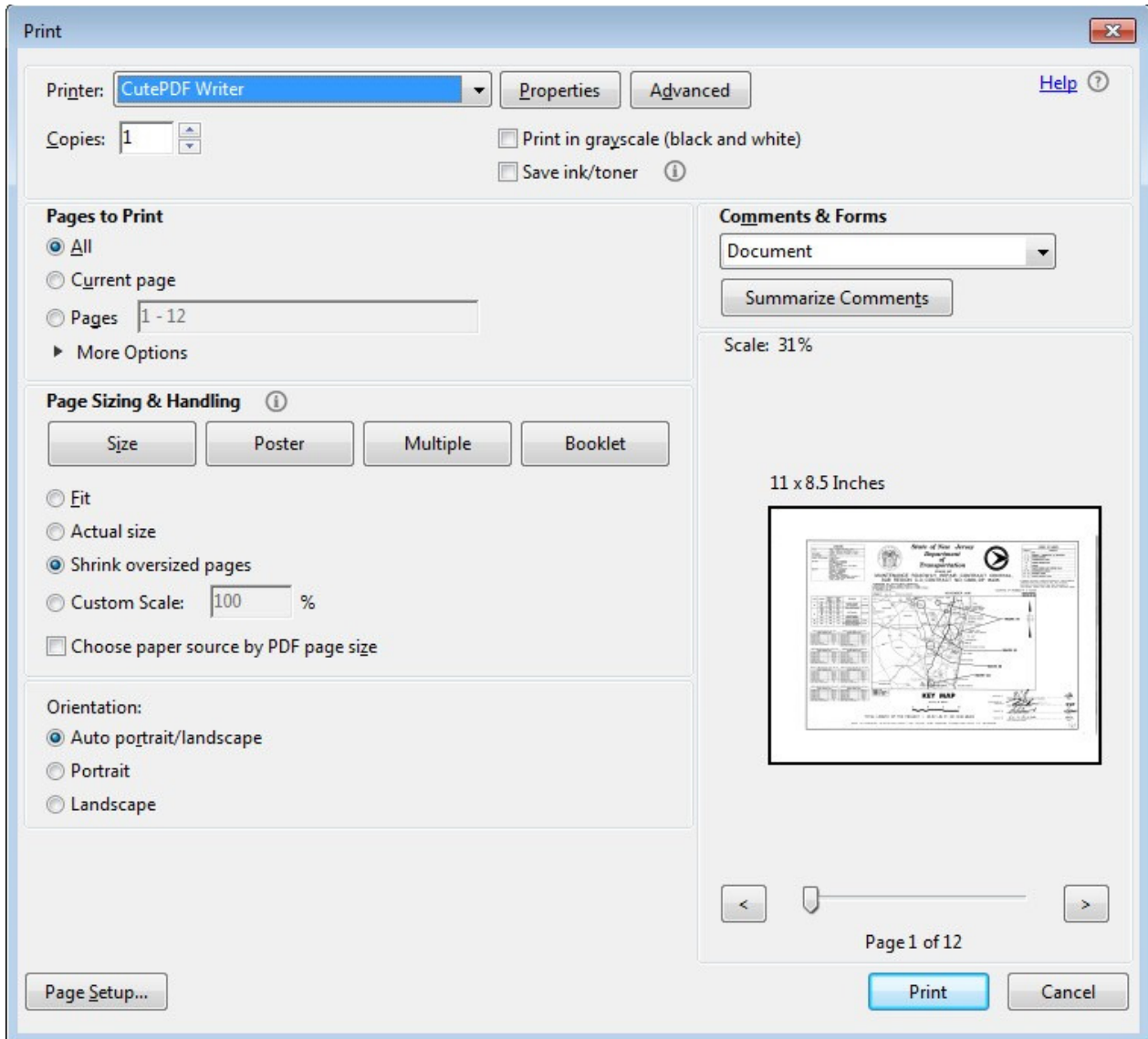
- **At Last** check the project plan sheet (KEY + Typical section) and download the plan by click download key locate at upper left corner of Bidx



- Open the message and click on the link.



- Open plans and save as PDF file on the project folder in S drive.
- If RE has informed you about COP ask for PDF of plans and save as stated above.



- Now we need to obtain information regarding unit price for pavement items that were used on project (project plan sheet) i.e. HMA MILLING 3" or less and HOT MIX ASPHALT 9.5 M E SURFACE COURSE.

First make sure that the surface course mix list on RE request match with project plan; if it is not match so we check with the RE to know if there is any change of plan.

"Change of Plan (COP)" and "Change Of Order"

This can include additional pavement work authorized or change in pavement material and could lead to change in unit price.

Then check DOT-PDMT.Forms@dot.nj.gov mailbox to see if there is any DC-177 form associate with this project.

- Construction:

<http://www.state.nj.us/transportation/business/procurement/ConstServ/awards15.shtm>

STATE OF NEW JERSEY
DEPARTMENT OF TRANSPORTATION
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Division of Procurement
Construction Services
 1035 Parkway Avenue
 P.O. Box 600
 Trenton, NJ 08625-0600
 Phone: 609.530.2103 Fax: 609.530.2238
[E-mail](#)

Fiscal Year 2017 Awards
 July 1, 2016 to June 30, 2017

Fiscal Year Archives:

* ARRA - American Recovery and Reinvestment Act

Award Date	Funded by ARRA or Sandy Restoration	Contractor	Project Description	Amount
6/30/17	NA	Joseph M. Santari, Inc. Hackensack, NJ	Maintenance Job Order Contracting (JOC) Bridge Repairs, North - 2017, Various Locations, Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex, Union and Warren Counties, Federal Project No. STP-C008(97.1), PE No. 2622512, CE No. 2206225, DP No. 16432.	\$5,505,500.00 Bid Tabulations
6/30/17	NA	Allied painting	Maintenance Bridge Painting	\$2,495,161.00

STATE OF NEW JERSEY
DEPARTMENT OF TRANSPORTATION
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1/17/2017
 Page 7 of 37

Tabulation of Bids

Contract ID: 15435 Counties: MONMOUTH, OCEAN
 Letting Date: December 08, 2016 District(s): C1
 Call Order: 435 Project(s): STATE
 Contract Time: 10/06/17 COMPLETION DATE Min: Max:
 Contract Description: MRRRC Central, Sub-Region C-3, Contract No. C308, DP 15435

Line No / Item ID Item Description	Quantity and Units	(1) STAVOLA CONTRACTING CO., INC.		(2) EARLE ASPHALT COMPANY		(3) JOSEPH DEFNO TRUCKING CO INC. /A DEFNO CONTRACTING CO	
		Unit Price	Ext Amount	Unit Price	Ext Amount	Unit Price	Ext Amount
SECTION: 0001 Roadway				Cat Alt Set:		Cat Alt Member:	
0030 201003P (1) CLEARING SITE LS		24,925.57000	24,925.57	5,000.00000	5,000.00	50,000.00000	50,000.00
0031 202009P 419,000 EXCAVATION, UNCLASSIFIED CY		25.00000	10,475.00	36.09000	15,121.71	30.00000	12,570.00
0032 202021P 1,519,000 REMOVAL OF PAVEMENT SY		20.00000	30,380.00	33.54000	50,947.26	20.00000	30,380.00
0033 302051P 500,000 DENSE, GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS CY		32.00000	16,000.00	81.05000	40,525.00	40.00000	20,000.00
0034 401009P 382,665,000 HMA MILLING, 3" OR LESS SY		1.50000	573,997.50	2.13000	815,076.45	2.60000	994,929.00

STATE OF NEW JERSEY
DEPARTMENT OF TRANSPORTATION
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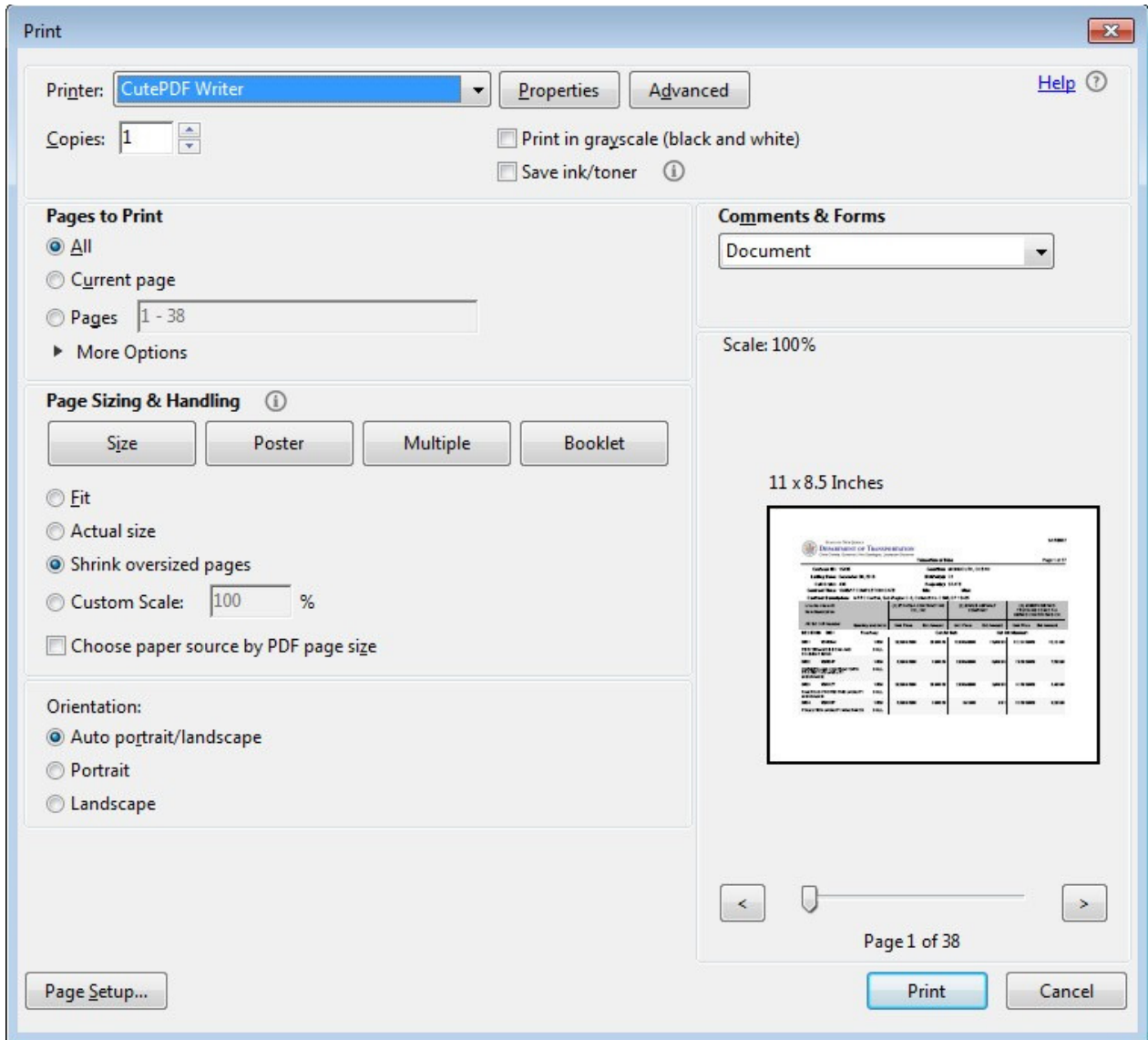
1/17/2017
Page 8 of 37

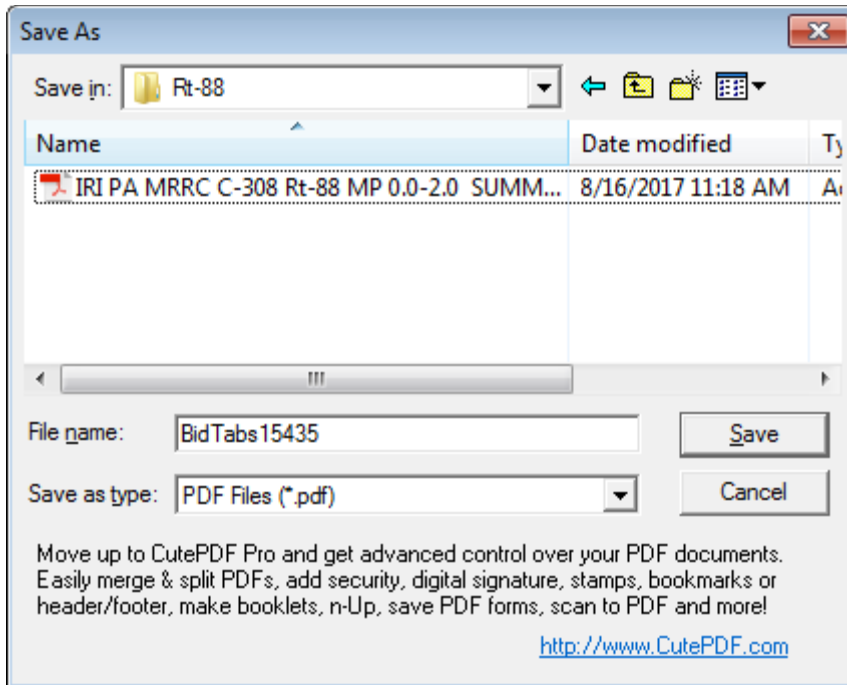
Tabulation of Bids

Contract ID: 15435 Counties: MONMOUTH, OCEAN
 Letting Date: December 08, 2016 District(s): C1
 Call Order: 435 Project(s): STATE
 Contract Time: 10/06/17 COMPLETION DATE Min: Max:
 Contract Description: MRRC Central, Sub-Region C-3, Contract No. C308, DP 15435

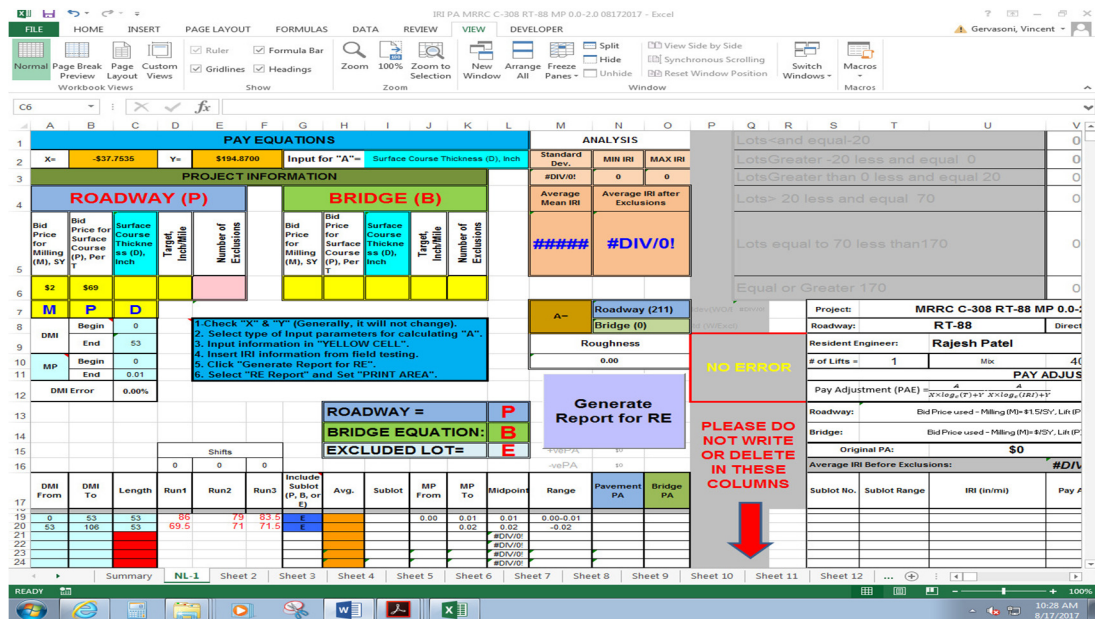
Line No / Item ID Item Description	Quantity and Units	(1) STAVOLA CONTRACTING CO., INC		(2) EARLE ASPHALT COMPANY		(3) JOSEPH DEFINO TRUCKING CO INC T/A DEFINO CONTRACTING CO	
		Unit Price	Ext Amount	Unit Price	Ext Amount	Unit Price	Ext Amount
SECTION: 0001	Roadway	Cat Alt Set:		Cat Alt Member:			
0035 401015P	5,935.000 SY	4.00000	23,740.00	9.60000	56,976.00	3.50000	20,772.50
CONCRETE MILLING							
0036 401021M	1,343.000 SY	40.00000	53,720.00	59.06000	79,317.58	55.00000	73,865.00
HOT MIX ASPHALT PAVEMENT REPAIR							
0037 401027M	287,596.000 LF	0.32000	92,031.36	0.07000	20,131.66	0.40000	115,039.20
POLYMERIZED JOINT ADHESIVE							
0038 401030M	57,400.000 GAL	0.01000	574.00	0.01000	574.00	0.01000	574.00
TACK COAT							
0039 401049M	9,367.000 T	69.00000	646,323.00	70.37000	659,155.79	80.00000	749,360.00
HOT MIX ASPHALT 9.5 M E SURFACE COURSE							

- Page 7, 8 (mill item and surface course)
- Create a PDF from all pavement items and saved in the project folder.





Now we collect and save all data need to calculate the IRI



1. Open the IRI PA excel sheet template (locate at)
2. Rename the file to carry the project information " IRI PA MMRC C-308 Rt. " and save under the project folder at the following location:

S:\Pavement and Drainage\PvmtTech\IRI Pay Adjustment\Projects\IRI 2017

3. Open the file and click on "View" then activate the "normal View"

- Fill the Yellow blocks i.e. Bid price for milling, Bid price for surface course "we obtain this information from procurement and saved as pdf file", surface course thickness, and target IRI "we obtain this information from BIDX and saved as pdf under the project folder"

The screenshot shows an Excel spreadsheet with the following data:

Project:	MRRC C-308 RT-88 MP 0.0-2.0	MRRC_17_C308	Truck	146	Job No.:	2621919					
Roadway:	RT-88	Direction:	East	Lane:	EL-1	Limits:	0 - 0.01				
Resident Engineer:	Rajesh Patel			Prime/Paving Contractor:	Stavola						
# of Lifts =	1	Mix	401049M	IRI Test Date:	8/2/2017	IRI Check Date:	8/17/2017				
PAY ADJUSTMENT (EX-Excluded Sublot, B-Bridge Deck Sublot)											
Pay Adjustment (PAE)	$\frac{A}{X \times \log_e(T) \times Y \times \log_e(IRI)}$			A=1267.2[M/9 + PD/150]	X= -37.75347,	Y= 194.87	PA (Bridge) =				
Roadway:	Bid Price used - Milling (M)= \$15/SY, Lit (P)= \$69/T, Thickness Evaluated (D)= 2.5"			A= 1668, Target IRI(T) = 76 Inch/Mile	PA=PAE for 76 >IRI						
Bridge:	Bid Price used - Milling (M)= \$/SY, Lit (P)= \$/T, Thickness Evaluated (D)= "			A= 0, Target IRI(T) = Inch/Mile	PA=0 for 76 <IRI						
Original PA:	\$0	Roadway Exclusions (16)	\$0	Total Pay Adjustment:				\$0			
Average IRI Before Exclusions:	#DIV/0!		Bridge Deck Exclusions (0)	\$0	Average IRI After Exclusions:			0.0			
Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.	Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.	Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.

A red box highlights a yellow cell in row 9 with the text "ERROR IN LOTS CALCULATION". A red arrow points to a grey cell in row 13 with the text "PLEASE DO NOT WRITE OR DELETE IN THESE COLUMNS".

- Fill the project limit, Truck #, job No., resident engineer name, ...and Prime/Paving contractor name.
- Rename the Raw data sheet to Raw EL-1 "we know from review the video that the vehicle perform 3 runs on east lane. Location for the raw data: Q:\PMS DATA\Dynatest Project Data_17 DYNATEST_IRI_SPECIALS
- Raw data check section 5403 get from MP to MP and speed.3 Colum copy and paste.

FROM	TO	LEFT	MID	RIGHT	PASS 1	PASS 2	SPEED	FROM	TO	LEFT	MID	RIGHT	PASS 2	PASS 1
11	0	0.01	400	261	365	292.5	385.5							
12	0.01	0.02	161	138	170	165.5	165.5							
13	0.02	0.03	60	91	132	96	96							
14	0.03	0.04	60	66	100	80	80							
15	0.04	0.05	74	91	128	101	101							
16	0.05	0.06	92	75	122	107	107							
17	0.06	0.07	176	145	151	165.5	165.5							
18	0.07	0.08	124	115	118	121	121							
19	0.08	0.09	275	202	204	209.5	209.5							
20	0.09	0.1	119	96	121	100	100							
21	0.1	0.11	104	140	196	150	150							
22	0.11	0.12	188	263	212.5	212.5	212.5							
23	0.12	0.13	106	149	237	171.5	171.5							
24	0.13	0.14	82	77	105	93.5	93.5							
25	0.14	0.15	74	60	62	63	63							
26	0.15	0.16	105	91	104	104.5	104.5							
27	0.16	0.17	120	99	163	141.5	141.5							
28	0.17	0.18	84	80	120	102	102							
29	0.18	0.19	89	62	84	86.5	86.5							
30	0.19	0.2	62	64	96	79	79							
31	0.2	0.21	90	73	94	92	92							
32	0.21	0.22	92	96	131	111.5	111.5							
33	0.22	0.23	148	95	91	119.5	119.5							
34	0.23	0.24	242	318	480	361	361							
35	0.24	0.25	84	67	86	85	85							
36	0.25	0.26	217	112	90	153.5	153.5							
37	0.26	0.27	73	81	123	98	98							
38	0.27	0.28	619	365	623	621	621							
39	0.28	0.29	447	487	522	522.5	522.5							
40	0.29	0.3	141	137	167	154	154							
41	0.3	0.31	206	212	250	228	228							
42	0.31	0.32	306	374	374	399.4	399.4							

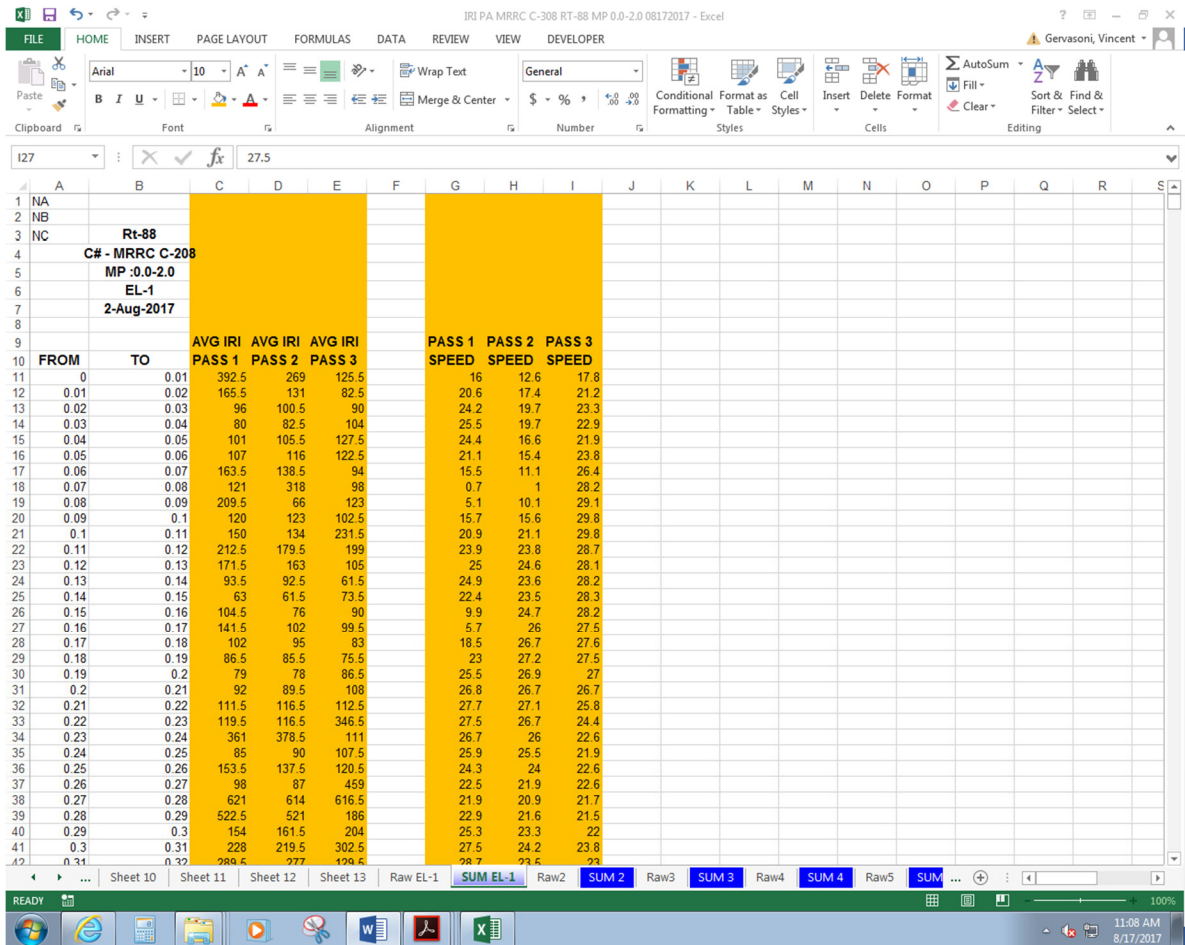
8. Raw data check section 5406 get from MP to MP and RIRI, MID, LRIR. (5 columns)
Copy and Paste to under the from box.

FROM	TO	LEFT	MID	RIGHT	PASS 1	PASS 2	SPEED	FROM	TO	LEFT	MID	RIGHT	PASS 2	PASS 1
11	0	0.01	400	261	365	292.5	385.5							
12	0.01	0.02	161	138	170	165.5	165.5							
13	0.02	0.03	60	91	132	96	96							
14	0.03	0.04	60	66	100	80	80							
15	0.04	0.05	74	91	128	101	101							
16	0.05	0.06	92	75	122	107	107							
17	0.06	0.07	176	145	151	165.5	165.5							
18	0.07	0.08	124	115	118	121	121							
19	0.08	0.09	275	202	204	209.5	209.5							
20	0.09	0.1	119	96	121	100	100							
21	0.1	0.11	104	140	196	150	150							
22	0.11	0.12	188	263	212.5	212.5	212.5							
23	0.12	0.13	106	149	237	171.5	171.5							
24	0.13	0.14	82	77	105	93.5	93.5							
25	0.14	0.15	74	60	62	63	63							
26	0.15	0.16	105	91	104	104.5	104.5							
27	0.16	0.17	120	99	163	141.5	141.5							
28	0.17	0.18	84	80	120	102	102							
29	0.18	0.19	89	62	84	86.5	86.5							
30	0.19	0.2	62	64	96	79	79							
31	0.2	0.21	90	73	94	92	92							
32	0.21	0.22	92	96	131	111.5	111.5							
33	0.22	0.23	148	95	91	119.5	119.5							
34	0.23	0.24	242	318	480	361	361							
35	0.24	0.25	84	67	86	85	85							
36	0.25	0.26	217	112	90	153.5	153.5							
37	0.26	0.27	73	81	123	98	98							
38	0.27	0.28	619	365	623	621	621							
39	0.28	0.29	447	487	522	522.5	522.5							
40	0.29	0.3	141	137	167	154	154							
41	0.3	0.31	206	212	250	228	228							
42	0.31	0.32	306	374	374	399.4	399.4							

9. Copy the average IRI to the next column to the orange column (AVG IRI PASS1)
Repeat 3 times(each lane has 3 run).

10. Rename the SUM sheet to SUM EL-1, copy the data from RAE EL-1 to SUM EL-1.

11. Clean the data on SUM EL-1, see below



12. Repeat all lanes.
13. Perform a speed data filter by highlighting all speed pass columns (Pass1&Pass2&Pass3) and apply conditional formatting ,highlight cell rules less than 16 mile/h with light red fill.

IRI PA MRRC C-308 RT-88 MP 0.0-2.0 08172017 - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER

Clipboard Font Alignment Number

Conditional Formatting Highlight Cells Rules Greater Than... Less Than... Between... Equal To... Text that Contains... A Date Occurring... Duplicate Values... More Rules...

FROM	TO	AVG IRI PASS 1	AVG IRI PASS 2	AVG IRI PASS 3	PASS 1 SPEED	PASS 2 SPEED	PASS 3 SPEED		
11	0	0.01	392.5	269	125.5	16	12.6	17.8	
12	0.01	0.02	165.5	131	82.5	20.6	17.4	21.2	
13	0.02	0.03	96	100.5	90	24.2	19.7	23.3	
14	0.03	0.04	80	82.5	104	25.5	19.7	22.9	
15	0.04	0.05	101	105.5	127.5	24.4	16.6	21.9	
16	0.05	0.06	107	116	122.5	21.1	15.4	23.8	
17	0.06	0.07	163.5	138.5	94	15.5	11.1	26.4	
18	0.07	0.08	121	318	98	0.7	1	28.2	
19	0.08	0.09	209.5	66	123	5.1	10.1	29.1	
20	0.09	0.1	120	123	102.5	15.7	15.6	29.8	
21	0.1	0.11	150	134	231.5	20.9	21.1	29.8	
22	0.11	0.12	212.5	179.5	199	23.9	23.8	28.7	
23	0.12	0.13	171.5	163	105	25	24.6	28.1	
24	0.13	0.14	93.5	92.5	61.5	24.9	23.6	28.2	
25	0.14	0.15	63	61.5	73.5	22.4	23.5	28.3	
26	0.15	0.16	104.5	76	90	9.9	24.7	28.2	
27	0.16	0.17	141.5	102	99.5	5.7	26	27.5	
28	0.17	0.18	102	95	83	18.5	26.7	27.6	
29	0.18	0.19	86.5	85.5	75.5	23	27.2	27.5	
30	0.19	0.2	79	78	86.5	25.5	26.9	27	
31	0.2	0.21	92	89.5	108	26.8	26.7	26.7	
32	0.21	0.22	111.5	116.5	112.5	27.7	27.1	25.8	
33	0.22	0.23	119.5	116.5	346.5	27.5	26.7	24.4	
34	0.23	0.24	361	378.5	111	26.7	26	22.6	
35	0.24	0.25	85	90	107.5	25.9	25.5	21.9	
36	0.25	0.26	153.5	137.5	120.5	24.3	24	22.6	
37	0.26	0.27	98	87	459	22.5	21.9	22.6	
38	0.27	0.28	621	614	616.5	21.9	20.9	21.7	
39	0.28	0.29	522.5	521	186	22.9	21.6	21.5	
40	0.29	0.3	154	161.5	204	25.3	23.3	22	
41	0.3	0.31	228	219.5	302.5	27.5	24.2	23.8	
42	0.31	0.32	288.5	277	196.5	28.7	24.6	23.8	
43	0.32	0.33	127.5	120	104.5	11.72959	29.6	22.8	19.1

Sheet10 Sheet11 Sheet12 Sheet13 Raw EL-1 SUM EL-1 Raw2 SUM 2 Raw3 SUM 3 Raw4 SUM 4 Raw5 SUM ...

AVERAGE: 32.88943894 COUNT: 612 SUM: 19931

IRI PA MRRC C-308 RT-88 MP 0.0-2.0 16Aug2016 - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ACROBAT

Clipboard Font Alignment Number

Conditional Formatting 20% - Accent... 20% - Accent... 20% - Accent... 20% - Accent... 20% - Accent... 20% - Accent... 20% - Accent... 20% - Accent...

SECURITY WARNING Some active content has been disabled. Click for more details. Enable Content

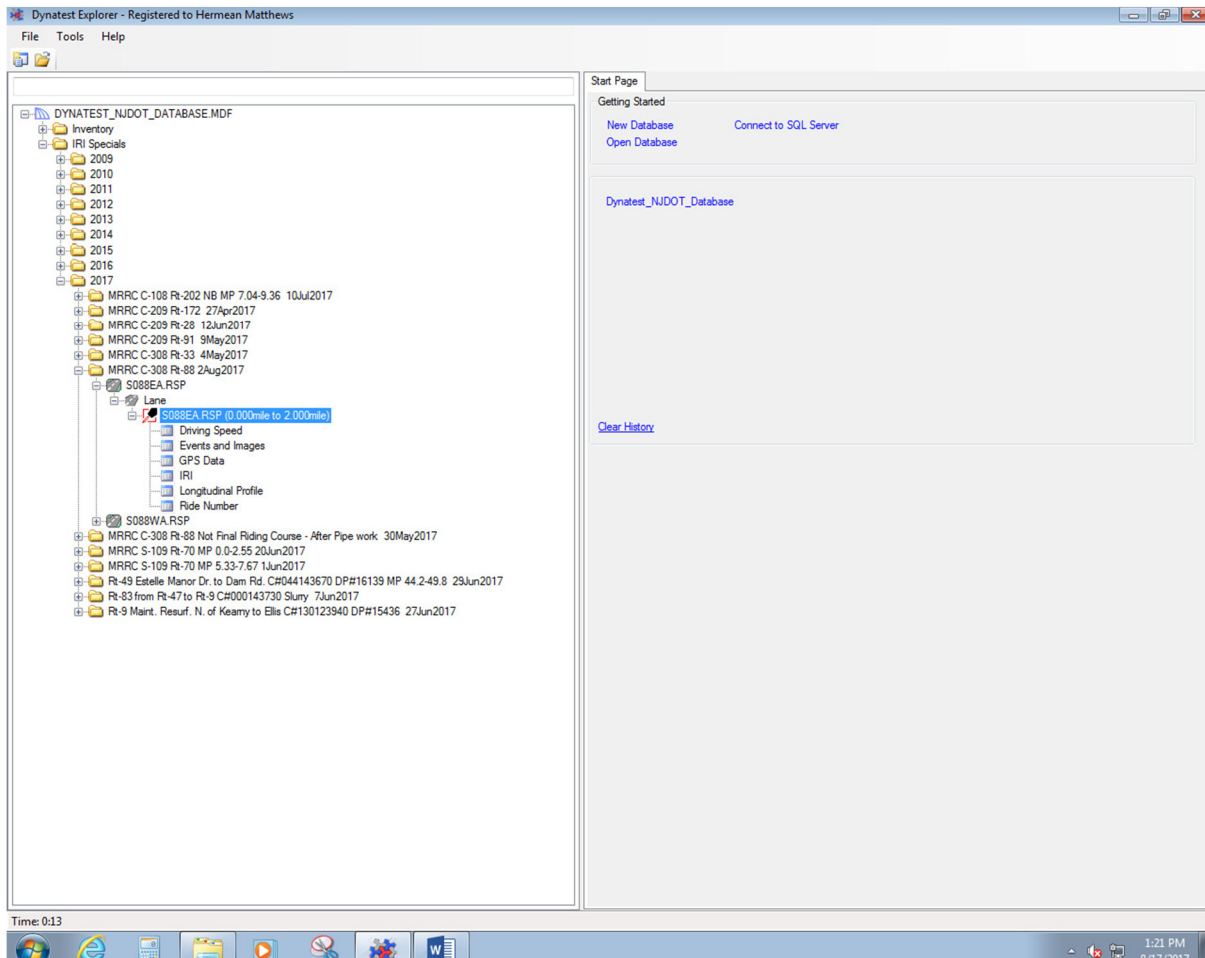
FROM	TO	AVG IRI PASS 1	AVG IRI PASS 2	AVG IRI PASS 3	PASS 1 SPEED	PASS 2 SPEED	PASS 3 SPEED		
11	0	0.01	392.5	269	125.5	133.6248	16	12.6	17.1
12	0.01	0.02	165.5	131	82.5	41.69632	20.6	17.4	21.3
13	0.02	0.03	96	100.5	90	5.267827	24.2	19.7	23.3
14	0.03	0.04	80	82.5	104	13.19406	25.5	19.7	22.9
15	0.04	0.05	101	105.5	127.5	14.18039	24.4	16.6	21.9
16	0.05	0.06	107	114.75	122.5	7.75	21.1	15.4	23.8
17	0.06	0.07	94	94	94	0	15.5	11.1	26.4
18	0.07	0.08	98	98	98	0	0.7	1	28.2
19	0.08	0.09	123	123	123	0	5.1	10.1	29.1
20	0.09	0.1	102.5	102.5	102.5	0	15.7	15.6	29.8
21	0.1	0.11	150	134	231.5	52.28846	20.9	21.1	29.8
22	0.11	0.12	212.5	179.5	199	16.59866	23.9	23.8	28.7
23	0.12	0.13	171.5	163	105	36.19047	25	24.6	28.1
24	0.13	0.14	93.5	92.5	61.5	18.19341	24.9	23.6	28.2
25	0.14	0.15	63	61.5	73.5	6.538348	22.4	23.5	28.3
26	0.15	0.16	63	76	90	7	9.9	24.7	28.2
27	0.16	0.17	100.75	102	99.5	1.25	5.7	26	27.5
28	0.17	0.18	102	95	83	9.892024	18.5	26.7	27.6
29	0.18	0.19	86.5	85.5	75.5	8.892763	23	27.2	27.5
30	0.19	0.2	79	78	86.5	4.645787	25.5	26.9	27
31	0.2	0.21	92	89.5	108	10.03743	26.8	26.7	26.7
32	0.21	0.22	111.5	116.5	112.5	2.646791	27.7	27.1	25.8
33	0.22	0.23	119.5	116.5	346.5	131.9331	27.5	26.7	24.4
34	0.23	0.24	361	378.5	111	149.6454	26.7	26	22.6
35	0.24	0.25	85	90	107.5	11.83464	25.9	25.5	21.9
36	0.25	0.26	153.5	137.5	120.5	16.50253	24.3	24	22.6
37	0.26	0.27	98	87	459	211.6793	22.5	21.9	22.6
38	0.27	0.28	621	614	616.5	3.547299	21.9	20.9	21.7
39	0.28	0.29	522.5	521	186	193.8468	22.9	21.6	21.5
40	0.29	0.3	154	161.5	204	26.98448	25.3	23.3	22
41	0.3	0.31	228	219.5	302.5	45.64644	27.5	24.2	23.8
42	0.31	0.32	289.5	277	129.5	88.98736	28.7	23.5	23
43	0.32	0.33	127.5	120	104.5	11.72959	29.6	22.8	19.1

Summary RQData EL-1 WL-1 Sheet3 Sheet4 Sheet5 Sheet6 Sheet7 Sheet8 Sheet9 Sheet10 Sheet11 Sheet12 Sheet13 RawEL-1 SUM EL-1 RawWL-1 SUM WL-1 Raw3 SUM ...

AVERAGE: 32.90115325 COUNT: 613 SUM: 19971

14. All highlight data (<16) should be tested by reviewing the Dynatest video

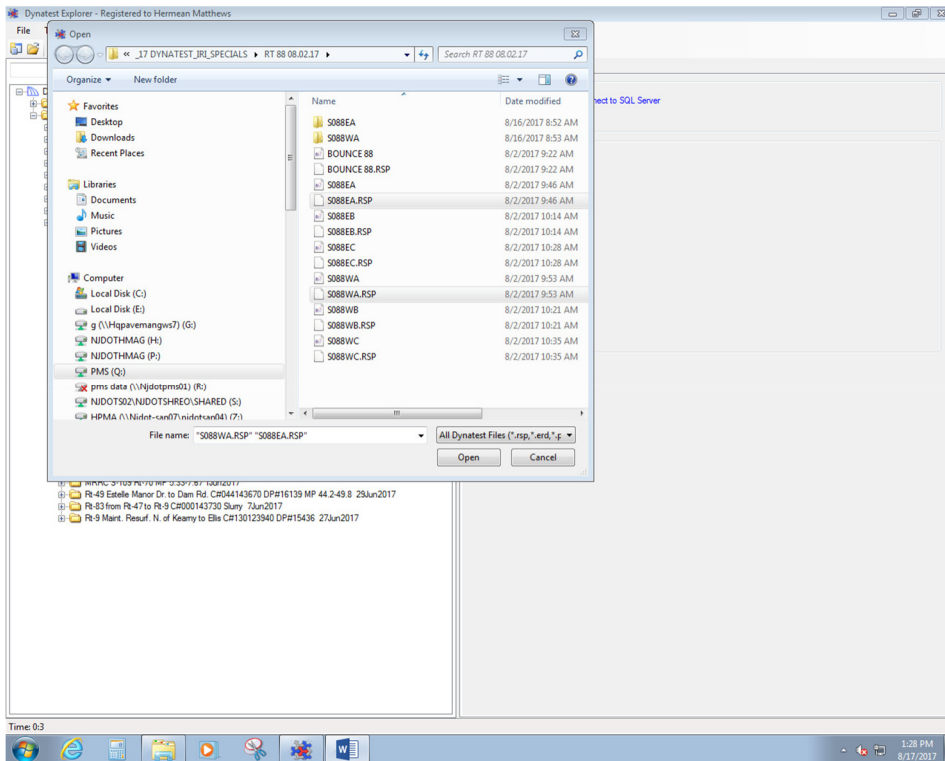
- Video:
- Go to Dynatest Explorer



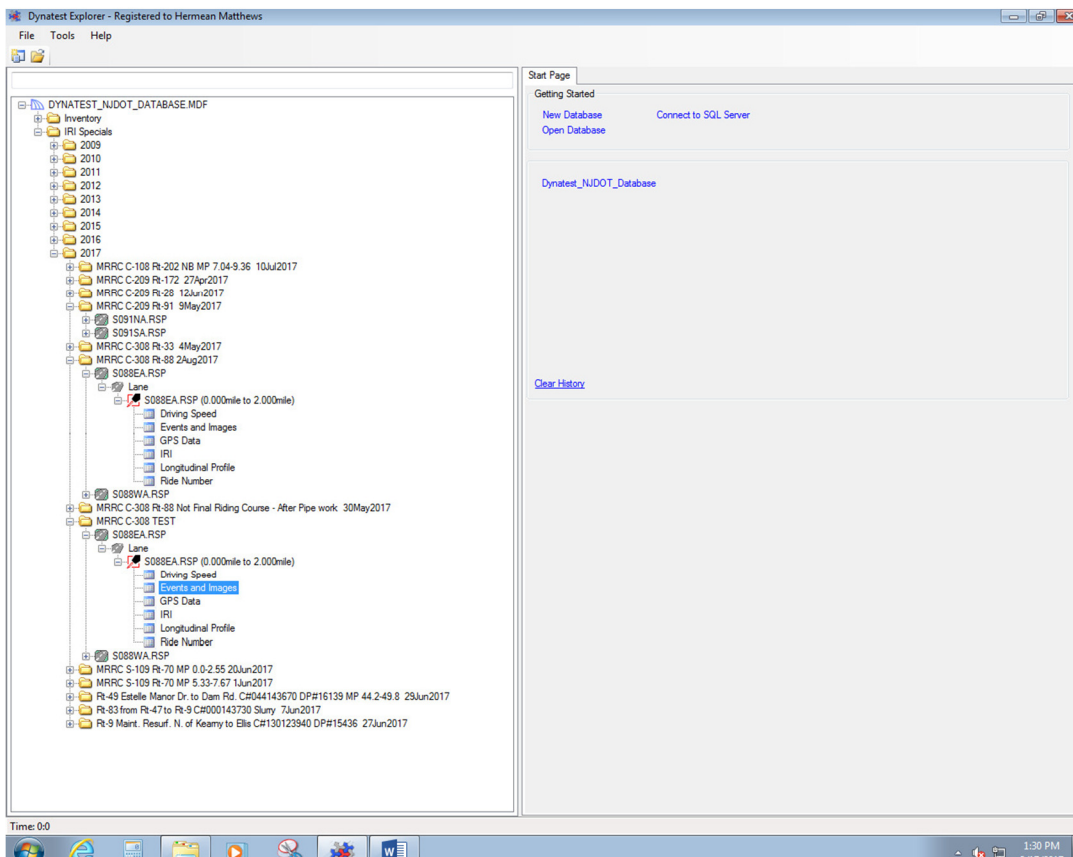
- Open IRI Specials – year-add new project folder (right click year, select new-group)

Q:\PMS DATA\Dynatest Project Data_17 DYNATEST_IRI_SPECIALS\RT 88 08.02.17

- IMPORT the image to database



- Select both bound of RSP files.



- To view image select event and image
- To check, confirm MP start point, bridge, mark down any unpaved area, railroad on paper
- Exclude shoulder, outside lane.
- Fill IRI video review log(see appendix A)
- Address the Sum EL-1 (pink) excel sheet data.

FROM	TO	AVG IRI PASS 1	AVG IRI PASS 2	AVG IRI PASS 3	PASS 1 SPEED	PASS 2 SPEED	PASS 3 SPEED	
11	0	392.5	269	125.5	16	12.6	17.8	
12	0.01	165.5	131	92.5	20.6	17.4	23.2	
13	0.02	96	100.5	90	24.2	19.7	23.3	
14	0.03	80	82.5	104	25.5	19.7	22.9	
15	0.04	101	105.5	127.5	24.4	16.6	21.9	
16	0.05	107	116	122.5	21.8	15.4	23.8	
17	0.06	163.5	138.5	94	15.5	11.1	26.4	
18	0.07	121	318	98	0.7	1	28.2	
19	0.08	209.5	66	123	5.1	10.1	29.1	
20	0.09	0.1	120	123	102.5	15.7	15.6	29.8
21	0.1	0.11	150	134	231.5	20.9	21.1	29.8
22	0.11	0.12	212.5	179.5	199	23.9	23.8	28.7
23	0.12	0.13	171.5	163	195	25	24.6	28.1
24	0.13	0.14	93.5	92.5	61.5	24.9	23.6	28.2
25	0.14	0.15	63	61.5	73.5	22.4	23.5	28.3
26	0.15	0.16	104.5	76	90	9.9	24.7	29.2
27	0.16	0.17	141.5	102	99.5	5.7	26	27.5
28	0.17	0.18	102	95	83	18.6	26.7	27.6
29	0.18	0.19	86.5	85.5	75.5	23	27.2	27.5
30	0.19	0.2	79	78	86.5	25.5	26.9	27
31	0.2	0.21	92	89.5	108	26.8	26.7	26.7
32	0.21	0.22	111.5	116.5	112.5	27.7	27.1	25.8
33	0.22	0.23	119.5	116.5	346.5	27.5	26.7	24.4
34	0.23	0.24	361	378.5	111	26.7	26	22.6
35	0.24	0.25	85	90	107.5	25.9	25.5	23.9
36	0.25	0.26	163.5	137.5	129.5	24.3	24	22.6
37	0.26	0.27	88	87	459	22.5	21.9	22.6
38	0.27	0.28	621	614	616.5	21.9	20.9	21.7
39	0.28	0.29	522.5	521	186	22.9	21.6	21.5
40	0.29	0.3	154	161.5	204	25.3	23.3	22
41	0.3	0.31	228	219.5	302.5	27.5	24.2	23.8
42	0.31	0.32	286.5	277	236.5	28.4	27.6	28

- Highlight unwanted data IRI and speed change to red
 - a. one bad data(speed <= 16 m/h) use IRI data average
 - b. two bad data use the third one IRI data
 - c. all bad data , use the target IRI.
- Copy IRI DATA (3) SUM EL-1 to EL-1 (YELLOW)

IRI PA MRRC C-308 RT-88 MP 0.0-2.0 08172017 - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER

Clipboard Font Alignment Number Styles Cells Editing

G21

M	P	D											A=	Roadway (1668)	Project:	MRRC C-308 RT-88 MP 0.0-	
DMI	Begin	0	1. Check "X" & "Y" (Generally, it will not change). 2. Select type of Input parameters for calculating "A". 3. Input information in "YELLOW CELL". 4. Insert IRI information from field testing. 5. Click "Generate Report for RE". 6. Select "RE Report" and set "PRINT AREA".										Bridge (0)	Roadway:	RT-88	Direct	
MP	Begin	0											Roughness	0.00	Resident Engineer:	Rajesh Patel	
DMI Error	0.00%											Generate Report for RE		# of Lifts =	1	Mix	4(
												ROADWAY = P		Pay Adjustment (PAE) = $\frac{A}{X \times \log_e(P) + Y} \times X \times \log_e(IRI) + Z$			
												BRIDGE EQUATION: B		Roadway: Bid Price used - Milling (M) = \$1.5/SY, Lift (P)			
												EXCLUDED LOT= E		Bridge: Bid Price used - Milling (M) = \$1.5/SY, Lift (P)			
												Average IRI Before Exclusions:		#DI			
Shifts	0	0	0											Sublot No.	Sublot Range	IRI (in/mi)	Pay A
DMI From	DMI To	Length	Run1	Run2	Run3	Include Sublot (P, B, or E)	Avg.	Sublot	MP From	MP To	Midpoint	Range	Pavement PA	Bridge PA			
0	53	53	292.5	289	125.5	E			0.00	0.01	0.01	0.00-0.01					
53	106	53	165.5	131	82.5	E			0.01	0.02	0.02	0.01-0.02					
106	158	53	96	100.5	90				0.02	0.03	0.03						
158	211	53	80	82.5	104				0.03	0.04	0.04						
211	264	53	101	105.5	127.5				0.04	0.05	0.05						
264	317	53	107	114.75	122.5				0.05	0.06	0.06						
317	370	53	94	94	94				0.06	0.07	0.07						
370	422	53	98	98	98				0.07	0.08	0.08						
422	475	53	123	123	123				0.08	0.09	0.09						
475	528	53	102.5	102.5	102.5				0.09	0.10	0.10						
528	581	53	150	134	231.5				0.10	0.11	0.11						
581	634	53	212.5	179.5	198				0.11	0.12	0.12						
634	686	53	171.5	163	105				0.12	0.13	0.13						
686	739	53	93.5	92.5	61.5				0.13	0.14	0.14						
739	792	53	63	61.5	73.5				0.14	0.15	0.15						
792	845	53	83	76	90				0.15	0.16	0.16						
845	898	53	100.8	102	99.5				0.16	0.17	0.17						
898	950	53	102	95	83				0.17	0.18	0.18						
950	1003	53	86.5	85.5	75.5				0.18	0.19	0.19						
1003	1056	53	79	78	86.5				0.19	0.20	0.20						
1056	1109	53	92	89.5	108				0.20	0.21	0.21						
1109	1162	53	111.5	116.5	112.5				0.21	0.22	0.22						
1162	1214	53	119.5	116.5	346.5				0.22	0.23	0.23						
1214	1267	53	361	378.5	111				0.23	0.24	0.24						
1267	1320	53	85	90	107.5				0.24	0.25	0.25						

ERROR IN LOTS CALCULATION

PLEASE DO NOT WRITE OR DELETE IN THESE COLUMNS

ERROR Please select "P" or "B".

Summary EL-1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 Sheet 10 Sheet 11 Sheet 12

READY 1:58 PM 8/17/2017

- Drag DMI and length to match the IRI data.
- Fill the "include subplot" column with (P, B, E)
- Click Generate report for RE
- View- page break preview, set page include all date

Excel spreadsheet showing project details and a detailed table of sublots with IRI values and pay adjustments. A red arrow points to the right side of the table.

HOT MIX ASPHALT 9.5 M E SURFACE COURSE											
Project:	MRRC C-308 RT-88 MP 0.0-2.0		MRRC_17_C308	Truck	146	Job No.:	2621919				
Roadway:	RT-88		Direction:	East		Lane:	EL-1				
Resident Engineer:	Rajesh Patel		Prime/Paving Contractor:	Stavola							
# of Lifts =	1		Mix	401049M		IRI Test Date:	8/2/2017		IRI Check Date:	8/17/2017	
PAY ADJUSTMENT (EX-Excluded Sublot, B-Bridge Deck Sublot)											
Pay Adjustment (PAE) = $\frac{A}{X \times (100/P) + Y}$			A=1267.2[M9 + PD]150			X= -37.75347, Y= 194.87		PA (Bridge) =			
Roadway: Bid Price used - Milling (M)=41.5/SY, Lift (P)=453/T, Thickness Evaluated (D)=2.5"			A=1668, Target IRI(T)= 76 Inch/Mile			PA=PAE for 76 > IRI=					
Bridge: Bid Price used - Milling (M)=41.5/SY, Lift (P)=453/T, Thickness Evaluated (D)=2.5"			A=0, Target IRI(T)= Inch/Mile			PA=0 for 76 < IRI=					
Original PA: (\$64,941)			Roadway Exclusions (16): (\$26,688)			Total Pay Adjustment: (\$38,253)					
Average IRI Before Exclusions: 132.4			Bridge Deck Exclusions (0): \$0			Average IRI After Exclusions: 118.6					
Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.	Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.	Sublot No.	Sublot Range	IRI (in/mi)	Pay Adj.
1	0.02-0.03	96	(\$211)	52	0.53-0.54	190	(\$1,668)	103	1.04-1.05	127	(\$96)
2	0.03-0.04	89	(\$129)	53	0.54-0.55	125	(\$79)	104	1.05-1.06	104	(\$32)
3	0.04-0.05	111	(\$45)	54	0.55-0.56	99	(\$25)	105	1.06-1.07	122	(\$70)
4	0.05-0.06	115	(\$53)	55	0.56-0.57	121	(\$68)	106	1.07-1.08	143	(\$169)
5	0.06-0.07	94	(\$18)	56	0.57-0.58	120	(\$65)	107	1.08-1.09	131	(\$101)
6	0.07-0.08	98	(\$23)	57	0.58-0.59	106	(\$96)	108	1.09-1.10	83	(\$6)
7	0.08-0.09	123	(\$73)	58	0.59-0.60	104	(\$32)	109	1.10-1.11	115	(\$53)
8	0.09-0.10	103	(\$31)	59	0.60-0.61	109	(\$41)	110	1.11-1.12	149	(\$227)
9	0.10-0.11	122	(\$1,668)	60	0.61-0.62	196	(\$1,668)	111	1.12-1.13	145	(\$166)
10	0.11-0.12	197	(\$1,668)	61	0.62-0.63	208	(\$1,668)	112	1.13-1.14	158	(\$393)
11	0.12-0.13	147	(\$295)	62	0.63-0.64	135	(\$119)	113	1.14-1.15	135	(\$119)
12	0.13-0.14	83	(\$68)	63	0.64-0.65	129	(\$93)	114	1.15-1.16	161	(\$497)
13	0.14-0.15	66	(\$8)	64	0.65-0.66	142	(\$161)	115	1.16-1.17	205	(\$1,668)
14	0.15-0.16	83	(\$68)	65	0.66-0.67	141	(\$163)	116	1.17-1.18	85	(\$20)
15	0.16-0.17	101	(\$28)	66	0.67-0.68	143	(\$169)	117	1.18-1.19	85	(\$20)
16	0.17-0.18	93	(\$17)	67	0.68-0.69	129	(\$93)	118	1.19-1.20	114	(\$51)
17	0.18-0.19	83	(\$68)	68	0.69-0.70	109	(\$41)	119	1.20-1.21	154	(\$331)
18	0.19-0.20	81	(\$4)	69	0.70-0.71	149	(\$227)	120	1.21-1.22	173	(\$1,668)
19	0.20-0.21	97	(\$22)	70	0.71-0.72	111	(\$45)	121	1.22-1.23	116	(\$55)
20	0.21-0.22	114	(\$51)	71	0.72-0.73	109	(\$41)	122	1.23-1.24	107	(\$37)
21	0.22-0.23	194	(\$1,668)	72	0.73-0.74	137	(\$130)	123	1.24-1.25	112	(\$47)
22(EX)	0.23-0.24	284	(\$1,668)	73(EX)	0.74-0.75	248	(\$1,668)	124	1.25-1.26	148	(\$216)

15. Summary –select lane

Excel spreadsheet showing a summary table for the project. The table includes columns for Lane, Pay Adjustment, Total Number of Sublots, and IRI values before and after exclusions. A red arrow points to the right side of the table.

Lane	Pay Adjustment	Total Number of Sublots	Before Exclusions		After Exclusions		Minimum Maximum IRI	# of Lots with IRI > Target	# of Lots with IRI > Target
			Average IRI	Standard Deviation	Average IRI After Exclusions	Standard Deviation			
EL-1	(\$38,253)	198	132.4	63.5	118.6	32.2	61 / 208	16	166

16. Save as PDF

17. Update the IRI pay adjustment summary sheet "S:\Pavement and Drainage\PvmtTech\IRI Pay Adjustment\Projects\IRI 2017"

Appendix A

IRI VIDEO REVIEW LOG			
Project:		Spec:	Job No.:
Roadway:	Direction:	Lane:	Limits:
Target IRI 1:		DP #:	Contract #:
Target IRI 2:	Exclusions:		Notes:
Target IRI 3:			
Bridge Target IRI:			
Video Review Date:		By:	IRI Test Date(s):
MP	Event	Comments	