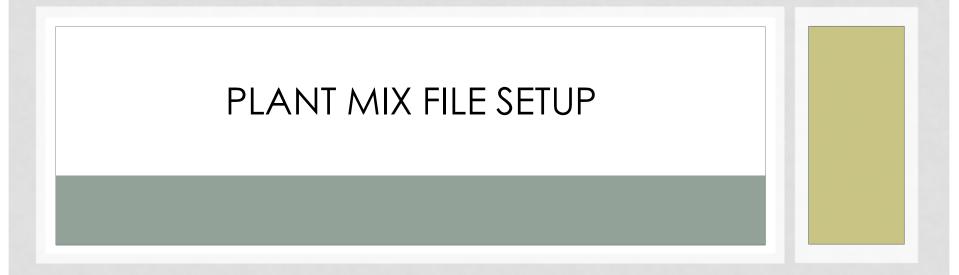
QA TRAINING MDT BILLINGS DISTRICT



PRESENTED BY: EMILY PETERSON, DISTRICT ENGINEERING OFFICER

Open					×
\leftrightarrow \rightarrow \checkmark \uparrow \blacksquare « 07_MATERIALS \Rightarrow QA_SUITE	~	Ō	,⊃ Searc	h QA_SUITE	
Organize 🔻 New folder				== -	?
BBP-FIVE_MILE_ROAD_03B19_4199	Name			Date modified	
01_CORRESP	03B19COQAD001.QDB			4/20/2020 9:03 AM	
02_CONTRACT_INFO	•				
03_NOTES					
04_ESTIMATES					
05_SUBMITTALS					
06_FINAL_FORMS					
07_MATERIALS					
CERTIFICATIONS					
MIX_DESIGNS					
NON-QA					
QA_SUITE					
SOURCE_OF_SUPPLY	<				>
File name: 03B19COQAD001.QDB		~	QA Project	t Files (*.QDB)	\sim
			Open	Cancel	

Navigate to the file you want to setup.
 It should be located under the projects
 Materials folder, QA Suite. Click Open

QA User	Login
Project	Select a Project V
	Select a Project NH 75-1(7)0 NH 43-1(39)0
Project N	NH 57-3(64)81
View (Dnly
Login (UI	Number)
Passwor	d
98	Cancel

 Login using the same credentials as you use to log into the computer and click ok. If you have a tied project you will need to select which project you want to open.

laterials Summary	Information for Selec	ted liem			
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)	Spec Year: Bid Item Name:	2014 COVER-TYPE 2	Line Here	Information	Close
2RUSHED BASE COURSE TYPE A GRADE 7 (01020340) STUSHED TOP SURFACING TYPE A GRADE 2 (001020340) ONCRETECLASS GENERAL (000110200) JUANT MIX BT SURF G S - 3.4 M (01020046) CONCRETE CLASS GENERAL (000110050) CONCRETE CLASS GENERAL (000110050)	Material Type: Effective Date: Comment: Unit Cost: Base Price: Pit Lab Number: Last Modified By:	COVER-TYPE 2 1/16/2014 Oxanged the name from Grade 2A to Type 2 to match the supplemental specification. 1.00 Contract Quantity: 56344 0.00 Bid Item Number: 40900020 Material Code: 701.02.08.01 Contract File Creation	Number 0180	Quantity 56344	Unit Cost
Add Material Edit Selected Delete Selected	Status:	Contract the Creation Currently in Specification Edit Mode			

Materials Summary						•
Existing Material Items	Information for Selec	ted Item				
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)	Spec Year:	2014				Close
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)	Bid Item Name:	PLANT MIX SURF GR S-3/4 IN		l ine Item	Information	
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN			Quantity	Unit Cost
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Effective Date:	2/26/2015	umetric Acceptance	0120	8019	42.00
CONCLETE-CLASS GENERAL (608010020) CONCLETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26/15 supplemental, upda				
	Unit Cost:	42.00 Contract Quantity:	8019 Ton			
	Base Price:	0.00 Bid Item Number:	401020045			
	Pit Lab Number:	0.00 Material Code:				
	The cab indiriber.	Material Code.	401.03.01.01			
	Last Modified By:	Contract File Creation				
Add Material Edit Selected Delete Selected	Status:	Currently in Specification Edit Mode				
· · · · · · · · · · · · · · · · · · ·						

- To begin setting up the specific materials. Click on "Specifications", then "Materials Summary". You will see a list of all the possible materials for the project.
- Choose the Material you would like to set up. This example will show setting up Plant Mix Bit Surf Gr S – ¾". Click Edit Selected.

Material Item Inform	nation	
Name:	PLANT MIX BIT SURF GR S - 3/4 IN	
Effective Date:	2/26/2015 Volumetric Ac	coeptance
Comment:	Update per 2/26/15 supplemental, update D/A.	
Unit Cost:	42.00 Base Price: 0.00	Contract Quantity: 8019 Ton
Item Number:	401020045 Pit Lab Number:	Material Code: 401.03.01.01
Aggregate Selection	n Other Specifications	
Select Aggreg	ate (None if no Aggregate for this Material):	
GRADE S - 3/4"	19 MM	Select Aggregate
Information for S	elected Aggregate Specification	
Effective Date	2/15/2005	Edit Aggregate Spec
Comment:	From Special Provisions, above date, Table 701-15B(1)
Sieves for Se	lected Spec:	
	Min = 100 - Incentive Sieve=No - Min Targ=90 Max Targ=100 Targ=0 Tol=7 - Incentiv	ve Sieve=No
1/2" \ 12.5 m	m - Min Targ=0 Max Targ=90 Targ=0 Tol=7 - Incentiv n - Min Targ=0 Max Targ=100 Targ=0 Tol=7 - Incentiv	e Sieve=No
Break Sieve		
1"		
Additional Re	quirements for Aggregate:	
MT217-Fractu **Fracture:		
	OK Cancel	Print Preview
Validation Errors:		
#8 \ 2.360 mm: Tan	et value is not between max and min values. get value is not between max and min values.	^
#2 00 \ 0.075 mm: T M 332-Gyratory-3/4	arget value is not between max and min values. 4"(19MM)	
	is not between max and min values.	*

Verify the correct aggregate is shown. If not choose "Select Aggregate" and navigate to the Correct aggregate.

Material Item Infor	mation	
Name:	PLANT MIX BIT SURF GR S - 3/4 IN	
Effective Date:	2/26/2015 Volumetric Acceptance	
Comment:	Update per 2/26/15 supplemental, update D/A.	
Unit Cost: Item Number:	42.00 Base Price: 0.00 Contract Quantity: 8019 Ton 401020045 Pit Lab Number: Material Code: 401.03.01.01	
Aggregate Selecti		
Select Aggre	gate (None if no Aggregate for this Material);	
GRADE S - 3/4"		
Information for	Selected Aggregate Specification	
Effective Dat		
Encouve Du	e: 2/15/2005 Edit Aggregate Spec	
Comment:	From Special Provisions, above date, Table 701-15B(1)	
	elected Spec:	
	Min=100 - Incentive Sieve=No n - Min Targ=90 Max Targ=100 Targ=0 Tol=7 - Incentive Sieve=No	
	nm - Min Targ=0 Max Targ=90 Targ=0 Tol=7 - Incentive Sieve=No m - Min Targ=0 Max Targ=100 Targ=0 Tol=7 - Incentive Sieve=No	
5/6 (5.511		
Break Sieve		
1"		
	equirements for Aggregate:	
MT217-Fract **Fracture:		
	OK Cancel Print Print Preview	1
Validation Errors:		
#8 \ 2.360 mm: Ta #200 \ 0.075 mm:	jet value is not between max and min values. rget value is not between max and min values. Target value is not between max and min values.	ľ
MT332-Gyratory-3/	4"(19MM) e is not between max and min values.	
	e is not between max and min values.	

 After the correct aggregate is selected or shown click "Edit Aggregate Spec".

Aggregate Spec	
aterial Item Information	
Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN	
PLANT MIX BIT SURF GR 5 - 3/4 IN	
Jnit Cost: 42.00 Base Price: 0.00	
42.00	
gregate Specification Information	
Aggregate Spec Name: GRADE S - 3/4" \ 19 MM Effect	ctive Date: 10/9/2008
Aggregate Spec Name: GRADE S - 3/4" \ 19 MM Effect	ctive Date: 10/9/2008
Comment: From Special Provisions, above date, Table 701-15B(1)	
Comment: From Special Provisions, above date, Table 701-15B(1)	
Gradation Spec Related Specifications	
Related Specifications	
Sieves for Gradation Spec: Gradation Test Method:	
1" \ 25 mm	MT320_PostBumGradation
3/4" \ 19 mm 1/2" \ 12 5 mm	
1/2" \ 12.5 mm 3/8" \ 9.5 mm	
#4 \ 4.750 mm Deduct	Incentive
#8 \ 2.360 mm	_
#16 \ 1.180 mm Target:	(90 to 100)
#30 \ 0.600 mm #50 \ 0.300 mm Tolerance: 7	i
#100 \ 0.150 mm	_
#200 \ 0.075 mm Test Range:	
F Factor:	(Blank for None):
Select Sieves	
Break Sieve	
1" \ 25 mm	
dation Errors:	
"∖19 mm; Target value not set.	
2.360 mm: Target value is not between max and min values.	
0 ∖ 0.075 mm: Target value is not between max and min values.	
2.360 mm: Target value is not between max and min val	lues. values.

 Under the Edit Aggregate Spec, click "Select Spec Version" and choose the correct specification version. (This would be the specification closest to the letting date without passing it)

 Next you will need to enter the targets under the "Gradation Specifications". These targets are found off the Contractor's Mix Design.

Cancel

Select Spec Version

Change Spec Type

Edit Aggregate Spec
Material Item Information OK Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN Unit Cost: 42.00 Base Price: 0.00
Aggregate Specification Information Aggregate Spec Name: GRADE S - 3/4" \ 19 MM Effective Date: 10/9/2008 Select Spec Version Comment: From Special Provisions, above date, Table 701-15B(1) Gradation Spec Related Specifications
Sieves for Gradation Spec: Gradation Test Method: MT320_PostBumGradation J/4" \ 19 mm Spec for Selected Sieve Spec for Selected Sieve J/2" \ 12.5 mm Deduct Incentive ##4 \ 4.750 mm Deduct Incentive ##16 \ 1.180 mm Target: 4.8 (2 to 8) Target: 1.5 Test Range: #200 \ 0.075 mm Test Range: Test Range:
Select Sieves F Factor: (Blank for None): Break Sieve 1"\25 mm Validation Errors: #200 \ 0.075 mm: Target value not set.

• Enter the Targets for each sieve that is required. The required targets to be entered will be shown under the validation errors until they are entered.

		Aggre	gate Grad	ation - Per	cent by weig	ht passing s	quare mesh s	ieves		
Sieve Size	Coarse #1	Coarse #2	Inter #1	Inter #2	Air Sep Fns	Nat Fines	Nat Fines	Coarse #1	Hyd. Lime	JMF Blend
1"	100.0	100.0	100.0		100.0				100.0	100.0
34"	100.0		100.0		100.0				100.0	100.0
1/2"	71.0	100.0	100.0		100.0				100.0	87.2
%"	37.0		100.0		100.0				100.0	72.3
4M	4.5	8.2	10.8		89.2				100.0	40.3
8M	2.8		3.7		57.8				100.0	26.1
16M	2.4	2.9	3.0		34.0				100.0	16.4
30M	2.2		2.7		18.3				100.0	10.0
50M	2.0	2.3	2.5		10.8				100.0	7.0
100M	1.9		2.3		7.6				100.0	5.6
200M	1.6	1.8	2.0		6.4				90.0	4.8

 The Targets can be found in the Bituminous Mix Design Information Submittal Form from the Contractor.

*Note: After you enter the last Target you will need to click in another sieve or click Related Specification to get the "OK" Button to appear.

Edit Aggregate Spec	Material Item Information
	Name: PLANT MIX BIT SURF GR S - 3/4 IN
Material Item Information OK	Effective Date: 2/26/2015 Volumetric Acceptance
Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN Cancel	Comment: Update per 2/26/15 supplemental, update D/A.
Unit Cost: 42.00 Base Price: 0.00	Unit Cost: 42.00 Base Price: 0.00 Contract Quantity: 8019 Ton
	Item Number: 401020045 Pit Lab Number: Material Code: 401.03.01.01
	Aggregate Selection Other Specifications
Aggregate Specification Information	Existing Specifications for This Material:
Aggregate Spec Name: GRADE S - 3/4" \ 19 MM Effective Date: 10/9/2008 Select Spec Version	Density_Test_Pay_Factor_8Percent
	MT314-SpecificGravity-Cores Test Method: MT332_GyratoryMethod
Comment: From Special Provisions, above date, Table 701-15B(1)	MT321-SpecGravity-Rice MT328-TargetDensity Effective Date: 2/15/2005
	MT332-Gyratory-3/4"(19MM)
Gradation Spec Related Specifications	MT334-HamburgWheelTracking Comment. MT422-Ride Specification Special provision spec updated effective date. This
Requirements for Agareger	Plant_Mix_Incentive_Ties method is used to determine volumetric characteristics of pavement. Specs in this template are for 3/4" (19MM)
MT217-Fracture Details for Selected Requirement	Choose Specifications Edit Selected Grade S pavement.
Item Name: Fracture	Details for Selected Specification
	**VMA: - Min Targ=13 Max Targ=17 Targ=0 Tol=0.6 - F_Fact=6 - Incentive **VFA: - Min Targ=65 Max Targ=80 Targ=0 Tol=5 - F Fact=2 - Incentive
	**VTM: - Min Targ=3.4 Max Targ=4 Targ=0 Tol=1 - F Fact=6 - Incentive
Min: 35	**Dust/Asphalt Ratio: - Min Targ=0.6 Max Targ=1.4 Targ=0 Tol=0.2 - F_Fact=30 - Incentive
F Factor: (Blank for None)	
Set ct Specifications	
Fracture	
	OK Cancel Print Print Preview
	Validation Errors:
	MT332-Gyratory-3/4"(19MM) VMA: Target value is not between max and min values.
	VFA: Target value is not between max and min values. VTM: Target value is not between max and min values.
	Dust/Asphalt Ratio: Target value is not between max and min values.
	Pit Lab Number is required for a Plant Mix Material Item

- Choose the "Related Specifications" and verify the minimum fracture is correct. Then click OK.
- Choose "Other Specification" and then choose MT332-Gyratory-3/4" (19MM).

Material Item Information			•
	T MIX BIT SURF GR	iR S - 3/4 IN OK	
Unit Cost: 42.00	Base Price: 0.00	0 Cancel	
Specification Information			
Name: MT332-Gyratory-3/4"	(19MM)	Test Method: MT332_GyratoryMethod	
Effective Date: 2/15/2005 Procedure Only	Comment	nt: Special provision spec updated effective date. This method is used to determine volumetric characteristics of pavement. Specs in this template are for 3/4" (19MM) Grade 5 pavement.	
Specification Items			
pecification items		Details for Selected Item	
VMA VFA			
VTM Dust/Asphalt Ratio		VIN C	
Dust/Aspriat Natio		Deduct Incentive	
		Target: 0 (2 to 17)	
		Tolerance: 0.6	
		Test Range: -0.6 to 0.6	
		F Factor: 6 (Blank for None)	
alidation Errors:			
TT332-Gyratory-3/4"(19MM) VMA: Target value is not between VFA: Target value is not between VTM: Target value is not between Dust/Asphalt Ratio: Target value	max and min values. max and min values	15. 55.	
IT332-Gyratory-3/4"(19MM) VMA: Target value is not between VFA: Target value is not between VTM: Target value is not betweer	max and min values. max and min values	s. s. and min values. Montana Department o Bituminous Mi	x De
T332-Gyratory-3/4"(19MM) VMA: Target value is not between VFA: Target value is not between VTM: Target value is not between	max and min values. n max and min values is not between max a	s. cand min values. Montana Department o Bituminous Mi	x De: nitta
T332-Gyratory-3/4"(19MM) VMA: Target value is not between VFA: Target value is not between VTM: Target value is not between	max and min values is not between max a	REV:2/18 Montana Department of Bituminous Mi Information Subr	x De nitta Proper

Enter the Target information from the Mix Design. Everything you need should be found in the Bituminous Mix **Design Information** Submittal Form.

After all information is entered click OK.

Material Item Name: PLANT MIX BIT SI	URF GR S - 3/4 IN
Unit Cost: 42.00 Base Price	0.00
Specification Information	
Name: MT332-Oysstop-3/47(15MM)	Test Method: 11 Condon Method
Plective Date: 2/15/2005 G Procedure Only See Fination Terms	Sommert: Special provides an epidanet effective date. This method is used to determ induments: characterized and provement. Specia in this template are for 3-4° (1 Good 2 and careful and a special and a specia
	Details for Selected Item
VISA VEA	Details for Selected Item Item Name: Duet/Apphait Ratio
VBIA VFA VTM Start Mechan	
VEA	Item Name: Dust/Aphat Rate
VEA	Item Name: Duat/Aphat Rato
VEA	Nerre Dust/Nephal Rate C Deduct Incentive Target 0.55 (0.55 to 1.4)

sportation ign Form

Design Volumetric Properties									
% Voids in Mineral Aggregate(VMA) @ N _{des}	14.0 % Voids Filled with Asphalt (VFA) @ N _{des} 71.8	% Voids in Mix @ N _{des} (VTM) 4.0							
% of Rice (Gmm) @ N _{ini} 85.5%	@N _{des} 96.0% @N _{max} 97.6% Max SG (G _{mm}) 2.476	Bulk SG @ Ndes(G _{mb}) 2.378							
Dust/Asphalt Ratio (D/A) 0.98	Dust Proportion (DP) 1.09 Tensile Strength Ratio (TSR) (%)	96.4							
Effective SG (G _{se}) 2.668	% Absorbed Binder (P _{ba)} 0.55% % Effective Binder (P _{be}) 4.37%								

Material Item Inform	nation							
Name:	PLANT MIX BIT SURF GR S - 3/4 IN							
Effective Date:	2/26/2015 Volumetric Acceptance							
Comment:	Update per 2/26/15 supplemental, update D/A.							
Unit Cost:	42.00 Base Price: 0.00 Contra	ct Quantity: 8019 Ton						
Item Number:	401020045 Pit Lab Number:	Material Code: 401.03.01.01						
GRADE S - 3/4" \ Information for Se Effective Date Comment:	ate (None if no Aggregate for this Material): 19 MM elected Aggregate Specification : 10/9/2008 From Special Provisions, above date, Table 701-15B(1)	Select Aggregate Edit Aggregate Spec						
3/4" \ 19 mm 1/2" \ 12.5 mr	Min Targ=0 Max Targ=100 Targ=100 Tol=7 - Incentive S m - Min Targ=0 Max Targ=90 Targ=87.2 Tol=7 - Incentive S - Min Targ=0 Max Targ=100 Targ=72.3 Tol=7 - Incentive S	ieve=No						
1"								
Additional Rec MT217-Fractu	quirements for Aggregate:							
**Fracture: N								
unus e 🖣	OK Cancel	Print Preview						
/alidation Errors: ⁹ it Lab Number is rec	quired for a Plant Mix Material Item							

 This will bring you back to the Material Item Information page. Take note of the "Validation Errors in the box on the bottom. For this example it is showing that we still need to enter the Pit Lab Number. This information can be found on the Mix Design Report. Once that is entered the OK button will become available.

Montana Depai	tment of Transpor	ation AASHTOWare Project [™] Version 4.2.4 Revis
		Superpave Mix Design Report
		2053S01
Material Code	401.03.00.01	Plant Mix Surfacing Grade S - 3/4"
Associated To	03819 MAIN STRE	ET - LEWISTOWN
Manufacturer	53-080044	Joesph Simpson Site
Effective Date	March 13, 2020	Termination Date
Approved Date	April 6, 2020	Approved By NeedhamM
Remark:		
This is a PG 70 Tied to Contrac	-28 design per contr t 03819	act requirements.,
		2053S01 Mix Design Properties
PG Binder Grad	e 70-28	Mixing Temp 157 PG Binder Sp Grav 1.0190
PG Binder Supp	lied By MDT	
PG Binder Supp		Calumet Montana Refining LLC (formerly MRC)
20 Yr Design Es	SALs Total	20 Yr Design ESALs Daily 223
Source Pit Code	53-080044	Joesph Simpson Site
Hud Lines Cuppl	ied By MDT	
Hyd Linie Suppi		

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MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PE File View Specifications Tools Window Help	TERSON, EMILY				-		Х
Materials Summary							• >
Existing Material Items	Information for Select	ed Item					
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)	Spec Year:	2014				Close	
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)	Bid Item Name:	PLANT MIX SURF GR S-3/4 IN		Line Item	Informatio	n:	
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN		Number	Quantity	Unit Co	Cost
PLANT MIX BIT SURF GR S - 3/4 IN (401020045) CONCRETE-CLASS GENERAL (608010020)	Effective Date:	2/26/2015 Vol	umetric Acceptance	0120	8019	42.00	
CONCRETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26/15 supplemental, upda	te D/A.				_
	Unit Cost:	42.00 Contract Quantity:	8019 Ton				
	Base Price:	0.00 Bid Item Number:	401020045				
	Pit Lab Number:	Simpson Pit Material Code:	401.03.01.01				_
	Last Modified By:	PETERSON, EMILY					
	Status:	Currently awaiting Specification Review	w - Specification Edit				
Add Material Edit Selected Delete Selected		Mode marked as complete by PETERS	ON, ÉMILY				
Material Version Info for Selected Item							
Material Version 1 v of 1 New Material Version	Edit Material Version						
Comment:							
Unit Cost: 42.00 Last Modified By:	Material Version Creat	ion					
Base Price: 0.00 Status: Currently	in Specification Edit Mod	le					
Quantity: 8019 Ton							
Line Item Number: 0120							
Agregate Gradations Daily Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing Last Modified By: Material Test Status: Currently in Specification							

- After you click OK it will bring you back to this screen. I suggest you save your progress. Next you will need to setup the materials under the "Material Info for Selected Test" information located at the bottom of the screen.
- Highlight Aggregate Gradations and click "Edit".

Edit Aggregate Spec			
Material Item Information Material Item Name: PLANT MIX BIT SURF Unit Cost: 42.00 Base Print Default Lot Size: 12500	F GR S - 3/4 IN ice: 0.00 Edit Complete	OK ancel rint Preview	Go through the Targets and verify that they match the
Aggregate Specification Information Aggregate Spec Name: GRADE S - 3/4" \ Comment: From Special Provisions, above da Gradation Spec Related Specifications			Targets in the Mix Design. After everything is verified click "Edit Complete" and then
Sieves for Gradation Spec: 1" \ 25 mm 3/4" \ 19 mm 1/2" \ 12.5 mm 3/8" \ 9.5 mm #4 \ 4.750 mm #8 \ 2.360 mm #16 \ 1.180 mm #30 \ 0.600 mm #100 \ 0.150 mm #200 \ 0.075 mm 200 \ 0.075 mm	Gradation Test Method: MT320_PostBumGradation Spec for Selected Sieve Deduct Target: 87.2 Tolerance: 7 Test Range: 80.2 to 94.2 F Factor: (Blank for None):		OK.
Select Sieves Break Sieve 1" \ 25 mm			

	Aggregate Gradation - Percent by weight passing square mesh sieves									
Sieve Size	Coarse #1	Coarse #2	Inter #1	Inter #2	Air Sep Fns	Nat Fines	Nat Fines	Coarse #1	Hyd. Lime	JMF Blend
1"	100.0	100.0	100.0		100.0				100.0	100.0
34"	100.0		100.0		100.0				100.0	100.0
1/2"	71.0	100.0	100.0		100.0				100.0	87.2
3%"	37.0		100.0		100.0				100.0	72.3
4M	4.5	8.2	10.8		89.2				100.0	40.3
8M	2.8		3.7		57.8				100.0	26.1
16M	2.4	2.9	3.0		34.0				100.0	16.4
30M	2.2		2.7		18.3				100.0	10.0
50M	2.0	2.3	2.5		10.8				100.0	7.0
100M	1.9		2.3		7.6				100.0	5.6
200M	1.6	1.8	2.0		6.4				90.0	4.8

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PET	ERSON, EMILY				-		×
File View Specifications Tools Window Help							
🞽 🚽 🖨 🔍 🍳							
Materials Summary							▼ X
Existing Material Items	Information for Selecte	d Item					
COVER - TYPE 2 (40900020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)	Spec Year:	2014				Close	
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)	Bid Item Name:	PLANT MIX SURF GR S-3/4 IN		Line Item	Informatio	n:	
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN			Quantity		ost
PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Effective Date:	2/26/2015 Volu	umetric Acceptance	0120	8019	42.00	
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26/15 supplemental, updat	e D/A.	1			
	Unit Cost:	42.00 Contract Quantity:	8019 Ton				
	Base Price:	0.00 Bid Item Number:	401020045				
	Pit Lab Number:	Simpson Pit Material Code:	401.03.01.01	ī			_
	Last Modified By:	PETERSON. EMILY					
	Status:	Currently awaiting Specification Review	v - Specification Edit				
Add Material Edit Selected Delete Selected		Mode marked as complete by PETERSO	DN, ÉMILY				
Material Version Info for Selected Item							
Material Version 1 v of 1 New Material Version	Edit Material Version						
Comment:							
Unit Cost: 42.00 Last Modified By:	Material Version Creati	on					
Base Price: 0.00 Status: Currently in	n Specification Edit Mod	e					
Quantity: 8019 Ton							
Line Item Number: 0120							
Aggregate Gradations Daily Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing Volumetr							

- After you click OK it will bring you back to this screen. I suggest you save your progress. Continue setting up the information under the "Material Info for Selected Test" tab at the bottom of the screen.
- Highlight Daily Plant Mix Report and click "Edit".

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Material Item Information Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN	
Unit Cost: 42.00 Base Price: 0.00 Ca	ncel
Bin Splits	
Type of Plant Batch V Mix Design Date 5/ 5/2020 🗐 V Bin Type Gsb (Specific Gravity) Split	6
Mix Design No. Mix Type Grade S V 1 No Bin V	
Specification Items	
Number of Lifts Design % Voids 3 No Bin	
Average Plan Thickness in Design Density 4 No Bin	
5 No Bin	
Maximum Mixing Temperature OF Design % of Asphalt 6 No Bin V	
Minimum Mixing Temperature OF Design % Hyd. Lime 7 No Bin V	
Desian Rice Density Desian % Additive 2	=
9 No Bin	=
Design VFA Max % Hyd. Lime 0 10 No Bin	=
Design Asphalt Type Design Additive 2 Type Total	_
Design Hyd. Lime Type V Print Prev	view

Validation Errors: Mix Design Number is blank.

Number of Lifts is blank. Plan Thickness is blank. Maximum Mixing Temperature is blank Minimum Mixing Temperature is blank

A minimum of 2 Bin Splits must be entered.

This information should be able • to be found in the Bituminous Mix Design Information Submittal Form and Plan **Typical Sections.**

aterial Item Information Material Item Name: PLANT	MIX BIT SURF GR	S - 3/4 IN				OK
Jnit Cost: 42.00	Base Price:	0.00			Edit Complete	Cancel
ype of Plant Batch lix Design No. 1		x Design Date 3/ 2/2020 x Type Grade S		n Splits Bin Type Coarse Intermediate	(Bulk SG) Gsb (Specific Gravity) 2.639 2.643	Split % 44
pecification Items				Natural David	2.027	
Number of Lifts	1	Design % Voids (∨TM)	4 3	Natural Fines	2.627	39.6
Average Plan Thickness	2.4 in	Design Density (Gmb)	2.378 5	Hyd Lime V No Bin V		1.4
Maximum Mixing Temperature	315 °F	Design % of Asphalt (Pb)	4.9 6	No Bin 🗸		
Minimum Mixing Temperature	266 °F	Design % Hyd. Lime	1.4 7	No Bin 🗸		
Design Rice Density (Gmm)	2.476	Design % Additive 2	0 8	No Bin V		
Design VFA	71.8	Max % Hyd. Lime	1.6 10			
Design Asphalt Type 70-28	V V	Design Additive 2 Typ	e	Total		100.0 %

*Notes:

- The Design Rice Density is also shown as Max SG (Gmm),
- The Design % Voids is also shown as the (VTM),
- The Design Density is also shown as the (Gmb),
- The Design % of Asphalt is also shown as the Total Binder %
 (Pb), and
- The Gsb (Specific Gravity) under the Bin Splits is also shown as the Aggregate Bulk SG.

After all information is entered click "Edit Complete" and then OK.

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PET	ERSON, EMILY				-		×
File View Specifications Tools Window Help							
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Materials Summary							▼ X
Existing Material Items	Information for Selecte	ed Item					
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)	Spec Year:	2014				Close	
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)	Bid Item Name:	Line Item	Informatio	tion:			
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN		Number	Quantity	Unit C	ost
PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Effective Date:	2/26/2015 Volu	imetric Acceptance	0120	8019	42.00	
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26/15 supplemental, updat	e D/A.				
	Unit Cost:	42.00 Contract Quantity:	8019 Ton				
	Base Price:	0.00 Bid Item Number:	401020045				
	Pit Lab Number:	Simpson Pit Material Code:	401.03.01.01	ī			
	Last Modified By:	PETERSON. EMILY					
	Status:	Currently awaiting Specification Review	- Specification Edit				
Add Material Edit Selected Delete Selected		Mode marked as complete by PETERSO	ON, ÉMILY				
Material Version Info for Selected Item							
Material Version 1 v of 1 New Material Version	Edit Material Version						
Comment:							
Unit Cost: 42.00 Last Modified By:	Material Version Creati	on					
Base Price: 0.00 Status: Currently in	n Specification Edit Mod	le					
Quantity: 8019 Ton							
Line Item Number: 0120							
Aggregate Gradations Daily Plant Mix Report Plant Mix Denaty Ride Specification Volumetric Testing Understand Specification Volumetric Testing							

After you click OK it will bring you back to this screen. I suggest you save your progress. Continue setting up the information under the "Material Info for Selected Test" tab at the bottom of the screen.

Highlight Plant Mix Density and click "Edit".

Material Item Information Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN	ОК
Unit Cost: 42.00 Base Price: 0.00	Cancel
Default Lot Size: 3000 Ton Edit Complete	Print
Specification Items	Print Preview
Incentive	
Minimum Percentage 94	
Maximum Percentage 95	
Deduct	
Minimum Percentage 93 Project Contains Mix Placed Directly On Crushed Aggregate Surfacing (CAC)	
F Factor 12 Lift On CAC Minimum Percentage 92	

• The specifications should already be loaded for you.

If your project will contain plant mix placed directly on CAC be sure to check the box.

 After all information is entered click "Edit Complete" and then OK.

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PET File View Specifications Tools Window Help	ERSON, EMILY						-		Х
Materials Summary									• >
Existing Material Items	Information for Select	ed Item							
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)	Spec Year:	2014						Close	
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)	Bid Item Name:	PLANT MIX SU	RF GR S-3/4 IN			Line Item	Informatio		
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200)	Material Type:	PLANT MIX BIT	SURF GR S - 3/4 IN			Number		Unit C	lost
PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Effective Date:	2/26/2015	Vol	umetric Accep	tance	0120	8019	42.00	
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26	6/15 supplemental, updat	te D/A.					
	Unit Cost:	42.00	Contract Quantity:	8019	Ton				
	Base Price:	42.00	Bid Item Number:	401020045					
	Pit Lab Number:	53-080044	Material Code:	401.03.01.0	1				
				401.00.01.0					
	Last Modified By: Status:	PETERSON, EN	nil T ing Specification Reviev	Carallerti					
Add Material Edit Selected Delete Selected	Status:		s complete by PETERS						
Proc Price: 0.00	Edit Material Version Material Version Creat n Specification Edit Mod	ion							
Aggregate Gradations Daily Plant Mix Report Plant Mix Censity Ride Specification Volumetric Testing Volumetric Testing Status: Currently in Specification									

 After you click OK it will bring you back to this screen. I suggest you save your progress. Continue setting up the information under the "Material Info for Selected Test" tab at the bottom of the screen.

Highlight Ride Specification and click "Edit".

AWARD COPY

CONTRACT NO. 03819

SPECIAL PROVISIONS

A 0.05 pay factor will be applied to the lots of longitudinal joint when the average density for the lot (Xn) is from 92.0% to 95.0%, inclusive, of the Maximum Specific Gravity (Rice's Method) and the range (R) is 3 or less.

Include all costs associated with constructing the joint in the cost of plant mix surfacing.

26. BINDER REPLACEMENT INCENTIVE [401] (REVISED 11-16-17)

A. General. This project is eligible for a binder replacement incentive. The incentive will be based on the asphati binder savings realized by the incorporation of recycled materials into the plant mix. The cost of the total binder saved, based on total % binder in the mix and virgin binder used, will be calculated for incentive. Half of the total savings will be paid to the Contractor as incentive as described below.

1) Certify the cost of the specified asphalt binder (FOB at the refinery) by submitting form MDT-CON-401_1 and copies of the binder invoices. Submit this information to the Project Manager prior to the completion of the paving. If the certified price varies by more than 20% of the bid price or if this information is not submitted in the specified timeframe, no incentive will be paid.

2) Furnish a mix design meeting all the requirements of Section 401 with the inclusion of recycled materials. Include extracted gradations and percent binder of the RAP and/or RAS in the mix design. Base this information on samples taken of the materials to be used. The mix design must also include the percentage of binder, by total weight of mix, to be replaced with that obtained from the recycled materials.

B. Method of Measurement and Basis of Payment. Include the costs associated with all work to incorporate recycled materials into the plant mix in the plant mix surfacing bid item. The plant mix and asphalt binder will be measured and paid for in accordance with the contract. Separate incentives will be calculated for each type of plant mix that incorporates recycled materials.

At the completion of all plant mix work, the incentive paid to the contractor will be calculated per the following:

Incentive = (0.5)(AC%_{Total} - AC%_{Virgin})(T_{Total})(CP_{AC}) Where:

 AC%_{Total} is the average of all the after burn AC percentages calculated during production of the plant mix item (expressed as a decimal rounded to the nearest thousandth). AC%_{total} is the total wingin AC used (nons) to produce the plant mix item divided

- by T_{Total} (expressed as a decimal rounded to the nearest thousandth).
 - T_{Total} is total tons of plant mix placed and accepted by the Department.

 CP_{AC} is the certified invoice price for the asphalt binder as described in part A)1) above or the asphalt binder bid unit price, whichever is less.

27. RIDE SPECIFICATION CATEGORY (SINGLE) [401] NH 75-3(64)81, Category III NH 75-1(7)0, Category II NH 43-1(39)0, Category III

28. OPTIONAL PAVING OF APPROACHES [402] (REVISED 6-27-13)

A. Description. The Contractor has the option of providing a plan for the use of nonpolymer modified asphalt cement in plant mix for private approaches, sidewalks, parking lots, bike paths and other miscellaneous handwork not subject to mainline traffic or public approaches. Provide the plan to the Project Manager for approval a minimum of seven (7) days prior to the scheduled start of the work. The plan must list the specific areas within the Right of Way where the use of non-polymer modified asphalt cement is proposed.

The Department may direct the Contractor to revert back to the use of modified asphalt at any time.

- 20 -

SECTION I

	Edit Ride Spec Materia	l Info	Edit Ride Spec Materia	al Info
	Spec Effective Date	5/5/2003 ~	Spec Effective Date	4/21/2016 ~
	Project Class	4/21/2016 2/28/2011 8/9/2006	Project Category	III ~
	Edit Complete	5/5/2003	Unit Cost	\$/ft
		Print Preview		Print
	OK	Cancel		Print Preview
1			ОК	Cancel

- In the Spec Effective Date be sure to change or verify that the correct specification year for your contract is selected.
- Next, choose the correct Ride Specification Category. This information is usually found in the Special Provisions, if not it can be determined using the Supplemental Specification 401.03.23(A) Ride Specification.

105.03.3	(C) RIDE SPECIFICA	TION (QUALITY INCENTIVE ALLOWANCE)	Page 37	12-11-14	Edit Ride Spec Materia	il Info
		, rescind the second paragraph (that begins, "The inc ow and replace with the following:	centive or disincentive") as v	vell as the	Spec Effective Date	4/21/2016 ~
in each	travel lane or measured	r surface smoothness will be calculated based on the d section using the following equation. The calculated n on the estimate. Calculate the pay adjustment as fo	d value will be applied as a line		Project Category	III ~
aajasan		y Factor -1) x L x Unit Cost			Unit Cost	4.283 \$/ft
	L = Measured lane ler	e using appropriate project category formulas ngth priate value from Table 105-4			Edit Complete	Print
Rescind	Table 105-4, Unit Cos	t, and replace with the following:				Print Preview
		TABLE 105-4 UNIT COST			ОК	Cancel
	Category	Description	Unit Cost/lft	Ł		
	l or III	Typical section with 0.3 ft. or greater plant mix sur	rfacing \$6.425	j		
1	I, II, or III	Typical section with 0.2 to 0.29 ft. plant mix surface		3		
1	I, II, or III	Typical section with 0.19 ft. or less plant mix surfa	acing \$3.213	3		
Not	e: Isolation lifts are no	t considered part of the surfacing section when deter	rmining appropriate overlay de	pth.		

- Enter the unit cost that relates to the correct Project Category. The amount can be found under the Supplemental Specification 105.03.3 (C) Ride Specification (Quality Incentive Allowance).
- After all information is entered click "Edit Complete" and then OK.

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PET	ERSON, EMILY				-		Х
File View Specifications Tools Window Help							
Materials Summary							▼ X
Existing Material Items COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340) CRUSHED BASE COURSE TYPE A GRADE 2 (301020340) CRUSHED DOP SURFACING TYPE A GRADE 2 (301020340) CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200) CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Information for Selecte Spec Year: Bid Item Name: Material Type: Effective Date: Comment: Unit Cost: Base Price: Pit Lab Number: Last Modified By: Status:	2014 PLANT MIX SURF GR S-3/4 IN PLANT MIX BIT SURF GR S - 3/4 IN 2/26/2015 Volun Update per 2/26/15 supplemental, update	8019 Ton 401020045 401.03.01.01	Line Item Number 0120	Informatio Quantity 8019	Close n: Unit C4 42.00	DSt
Material Version Info for Selected Item Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By: Base Price: 0.00 Quantity: 8019 Ton Line Item Number: 0120 Material Info for Selected Test Volumetric Testing Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing Edit Last Modified By: Status: Currently in Specification		ion					

- After you click OK it will bring you back to this screen. I suggest you save your progress. Continue setting up the information under the "Material Info for Selected Test" tab at the bottom of the screen.
 - Highlight Volumetric Testing and click "Edit".

ecifications Asphalt Information Specification Date: 2/15/2005 Target Value 4.0 4.0 14.0 72 1.0 Allowable Target Range 3.4-4.0 13.0-17.0 65-80 0.6-1.4 Ancentive Tolerance N/A N/A N/A Incentive Range N/A N/A N/A Iob Mix Tolerance 1.0 0.6 5 0.2 Iob Mix Range 3.0-5.0 13.4-14.6 67-77 0.8-1.2 Incentive 0.02 0.02 0.02 0.02 Iob Mix Range 3.0-5.0 13.4-14.6 67-77 0.8-1.2 Incentive 0.02 0.02 0.02 0.02 I'Factor 6 6 2 30	ract Unit Price (\$) 42.00 x Design Number: Mix Design Gmm: 0	Hyd Lime	Unit Base Pric Mix Design [Bulk Specific Gr	Date: 5/ 6/2	020 🔍 🔻 Default Lo	OK ot Size: 5000 Ton Cancel
arget Value 4.0 14.0 72 1.0 Nowable Target Range 3.4-4.0 13.0-17.0 65-80 0.6-1.4 Icontive Tolerance N/A N/A N/A N/A Icontive Range N/A N/A N/A N/A Icontive Range N/A N/A N/A N/A Icontive Range 1.0 0.6 5 0.2 ob Mix Tolerance 1.0 0.6 5 0.2 ob Mix Range 3.0-5.0 13.4-14.6 67-77 0.8-1.2 If Factor 6 6 2 30			VMA	VEA	D/A Patio	Asphalt Type
Indiana Indiana <thindiana< th=""> <thindiana< th=""> <thi< td=""><td>- Ilowable Target Range centive Tolerance</td><td>4.0 3.4-4.0 N/A</td><td>14.0 13.0-17.0 N/A</td><td>72 65-80 N/A</td><td>1.0 0.6-1.4 N/A</td><td>Print</td></thi<></thindiana<></thindiana<>	- Ilowable Target Range centive Tolerance	4.0 3.4-4.0 N/A	14.0 13.0-17.0 N/A	72 65-80 N/A	1.0 0.6-1.4 N/A	Print
es:	ob Mix Range centive	3.0-5.0 0.02	13.4-14.6 0.02	67-77 0.02	0.8-1.2 0.02	
	es:					

- Fill in the required information. Remember that the Validation Errors below will remind you about the information that is required.
- After all information is entered click
 "Edit Complete" and then OK.

Mix Design Number: Asphalt Mix Design Gmm: 2.476		Mix Design I Bulk Specific Gr	0, 2,	2020 🗐 🕶 Default Lot	OK Size: 5000 Ton Cance
Specifications Specification Date: 2/15	i/2005 V				Asphalt Information Asphalt Type 70-28 Asphalt Supplier Calumet
	% Voids	VMA	VFA	D/A Ratio	Asphalt Specific Gravity 1.033
Target Value	4.0	14.0	72	1.0	
Allowable Target Range	3.4-4.0	13.0-17.0	65-80	0.6-1.4	0.11
Incentive Tolerance	N/A	N/A	N/A	N/A	Print
Incentive Range	N/A	N/A	N/A	N/A	Print Previ
Job Mix Tolerance	1.0	0.6	5	0.2	
Job Mix Range	3.0-5.0	13.4-14.6	67-77	0.8-1.2	
Incentive	0.02	0.02	0.02	0.02	
F' Factor	6	6	2	30	Edit <u>C</u> ompl
Notes:					

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PET	TERSON, EMILY				_	
File View Specifications Tools Window Help						
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Materials Summary						•
Existing Material Items	Information for Selecte	d tem				
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 5 (301020340) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)	Spec Year: Bid Item Name:	2014 PLANT MIX SURF GR S-3/4 IN		Line Item	Information	Close
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN		Number	Quantity	Unit Cost
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045) CONCRETE-CLASS GENERAL (608010020)	Effective Date:	2/26/2015 Vol	umetric Acceptance	0120	8019	42.00
CONCRETE-CLASS GENERAL (600010020) CONCRETE-CLASS GENERAL (608010050)	Comment:	Update per 2/26/15 supplemental, upda	te D/A.	-		
	Unit Cost: Base Price:	42.00 Contract Quantity: D 00 Bid Item Number:	8019 Ton			
	Pit Lab Number:	0.00	401020045			
	Pit Lab Number:	53-080044 Material Code:	401.03.01.01			
Add Material Edit Selected Delete Selected	Last Modified By: Status:	PETERSON, EMILY Currently awaiting Specification Revier Mode marked as complete by PETERS				
Material Version Info for Selected Item						
Material Version 1 v of 1 New Material Version	Edit Material Version	Edit C	omplete			
Comment:						
Unit Cost: 42.00 Last Modified By:	Material Version Creation	n				
Base Price: 0.00 Status: Currently in	n Specification Edit Mode					
Quantity: 8019 Ton						
Line Item Number: 0120						
Aggregate Gradations Daily Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing Status: Currently in Specification		ation Edit Mode marked as complete by f	PETERSON, EMILY			

- After you click OK it will bring you back to this screen. I suggest you save your progress.
- Next, verify that the information under the Material Version Info for Selected Item is correct.
- Click "Edit Complete" and save.
- QA has a two-person setup process which means a different person (with at least FOP privileges) must log in and review the specification setup and lock the material, so it is ready for data entry.

Open						×
\leftrightarrow \rightarrow \checkmark	🔥 🔜 « 07_MATERIALS > QA_SUITE	~	ō	,	ch QA_SUITE	
Organize 🔻	New folder				····	?
	BBP-FIVE_MILE_ROAD_03B19_4199	Name			Date modified	
	01_CORRESP	03B19COQAD001.QDB			4/20/2020 9:03 AN	1
	02_CONTRACT_INFO	-				
	03_NOTES					
	04_ESTIMATES					
	05_SUBMITTALS					
	06_FINAL_FORMS					
	07_MATERIALS					
	HIT_LIST					
	MIX_DESIGNS					
	NON-QA					
	QA_SUITE					
	SOURCE_OF_SUPPLY	<				
	File name: 03B19COQAD001.QDB		~	QA Projec	ct Files (*.QDB)	\sim
				Oper	n Cance	el 🛛
					K	

 Navigate to the file you want to lock. It should be located under the projects Materials folder, QA Suite. Click Open

QA User	Login
Project	Select a Project V
	Select a Project NH 75-1(7)0
Project N	NH 43-1(39)0 NH 57-3(64)81
View (-
Login (UI	
Passwor	7
O.K	Cancel
/	

 Login using the same credentials as you use to log into the computer and click ok. If you have a tied project you will need to select which project you want to open.

MDT Quality Assurance Suite - MAIN STREET - LEWISTOWN - PETERSON, EMILY	
File View Specifications Tests Tools Window Help	
🍃 🚂 🍠 🛛 Materials Summary	

 To begin locking the specific materials. Click on "Specifications", then "Materials Summary". You will see a list of all the possible materials for the project.

isting Material Items	Information for Select	ed Item			
OVER - TYPE 2 (409000020) RUSHED BASE COURSE TYPE A GRADE 6 (301020340)	Spec Year:	2014			
RUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Bid Item Name:	PLANT MIX S	JRF GR S-3/4 IN		
ONCRETE-CLASS GENERAL (609010200) 2LANT MIX BIT SURF GR S - 3/4 IN (401020045)	Material Type:	PLANT MIX BIT SURF GR S - 3/4 IN			
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Effective Date:	2/26/2015	Val	umetric Accepta	ance
	Comment:		26/15 supplemental, upda		1100
		opulito por 21			
	Unit Cost:	42.00	Contract Quantity:	8019	Ton
	Base Price:	0.00	Bid Item Number:	401020045	
	Pit Lab Number:	53-080044	Material Code:	401.03.01.01	
	Last Modified By:	PETERSON, E	MILY		
Add Material Review Selected Delete Selected	Status:	Currently in S PETERSON, I	ecification Review Mode MILY	e - Unlocked by	
Material Version 1 v of 1 New Material Version	Edit Material Version	1			
Jnit Cost: 42.00 Last Modified By:	Material Version Crea y in Specification Review		I by PETERSON, EMILY		

 Select the Plant Mix Bit Surf Gr S – 3/4In (401020045) and click "Review Selected".

Edit Material Item [Definition				
Material Item Inform	ation				
Name:	PLANT MIX BI	T SURF GR S - 3/4	IN		
Effective Date:	2/26/2015	\checkmark	Volumetric Accept	tance	
Comment:	Update per 2/2	6/15 supplemental,	update D/A.		
Unit Cost:	42.00	Base Price:	0.00 Cont	ract Quantity:	8019 Ton
Item Number:	401020045	Pit Lab Number:	53-080044	Material Co	ode: 401.03.01.01
Aggregate Selection					
Select Aggregi GRADE S - 3/4" \	•	ggregate for this M	aterial):		
Information for Se		a Specification			Select Aggregate
Effective Date:	10/9/2008			Edit	t Aggregate Spec
Comment: F	From Special Prov	isions, above date,	Table 701-15B(1)		
Sieves for Sel	ected Spec:				
3/4" \ 19 mm 1/2" \ 12.5 mm	m - Min Targ=0 M	ax Targ=100 Targ=1 ax Targ=90 Targ=8	00 Tol=7 - Incentive 7.2 Tol=7 - Incentive 2.3 Tol=7 - Incentive	Sieve=No	×
Break Sieve					
1"					
Additional Reg	quirements for Ag	ggregate:			
MT217-Fractur **Fracture: M					
Lock		ОК	Cancel	Print	Print Preview

- Review that all the specifications were set up correctly. These specifications were set up in Slides 4 thru 9. You can review those slides to be sure you are checking everything that was setup.
- After everything is checked, select "Lock" and then "OK".

xisting Material Items	Information for Select	ed Item			
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)	Spec Year:	2014			
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Bid Item Name:		REGR S-3/4 IN		
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Material Type:		SURF GR S - 3/4 IN		
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Effective Date:	2/26/2015			
	Comment:			lumetric Acceptar	ice
	Comment.	Update per 2/2	6/15 supplemental, upda	ite D/A.	
	Unit Cost:	42.00	Contract Quantity:	8019	Ton
	Base Price:	0.00	Bid Item Number:	401020045	
	Pit Lab Number:	53-080044	Material Code:	401.03.01.01	
	Last Modified By:	PETERSON, EI			
	-				
Add Material View Selected	Status:	Locked by PET	ERSON, EMILY		
starial Venian Info for Calastad Barr					
Material Version 1 v of 1 New Material Version	Edit Material Version	1			
Material Version 1 of 1 New Material Version					
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By Pase Price: 0.00	: Material Version Crea	tion			
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By Base Price: 0.00 Status: Curren		tion	by PETERSON, EMILY		
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By Base Price: 0.00 Status: Curren Quantity: 8019 Ton	: Material Version Crea	tion	by PETERSON, EMILY		
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By Base Price: 0.00 Status: Curren Quantity: 8019 Ton	: Material Version Crea	tion	by PETERSON, EMILY		
Comment: Last Modified By Unit Cost: 42.00 Last Modified By Base Price: 0.00 Status: Curren Quantity: 8019 Ton Ton	: Material Version Crea	tion	by PETERSON, EMILY		_

- After you click OK it will bring you
 back to this screen. I suggest you
 save your progress. Next you will
 need to lock the information that
 is under the "Material Info for
 Selected Test" located at the
 bottom of the screen.
- Highlight Aggregate Gradations and click "Review."

Edit	Age	area	ate	Spec

Aggregate Specification Information Aggregate Spec Name: GRADE S - 3/4" \ 19 MM Effective Date: 10/9/2008 Comment: From Special Provisions, above date, Table 701-15B(1) Gradation Spec: Gradation Test Method: MT320_PostBumGradation 3/4" \ 19 mm 1/2", \12.5 mm Gradation Test Method: MT320_PostBumGradation 3/4" \ 19 mm 1/2", \12.5 mm Spec for Selected Sieve Deduct Incentive 3/8" \ 9.5 mm #16 \ 1.180 mm Min: 100 Change Spec Type #80 \ 0.600 mm #100 \ 0.150 mm F Factor: (Blank for None): #100 \ 0.075 mm Select Sieves Image: Select Sieves Select Sieves	Material Item Information Material Item Name: PLANT MIX BIT SURF Unit Cost: 42.00 Base Pric Default Lot Size: 12500 Ton		OK Cancel Print Print Preview
Break Sieve 1"\25 mm	Aggregate Spec Name: GRADE S - 3/4" \ 1 Comment: From Special Provisions, above dat Gradation Spec Related Specifications Sieves for Gradation Spec: 1 1/2" \ 12.5 mm 3/4" \ 19 mm 1/2" \ 12.5 mm 3/8" \ 9.5 mm #4 \ 4.750 mm #8 \ 2.360 mm #16 \ 1.180 mm #30 \ 0.600 mm #100 \ 0.300 mm #100 \ 0.175 mm Select Sieves Break Sieve	e, Table 701-15B(1) Gradation Test Method: MT320_PostBumGradation Spec for Selected Sieve Deduct Min: 100	~

- Review that all the specifications
 were set up correctly. These
 specifications were set up in Slide
 11. You can review that slide to
 be sure you are checking
 everything that was setup.
- After everything is checked, select "Lock" and then "OK".

sting Material Items	Information for Select	ed Item			
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)	Spec Year:	2014			
CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200)	Bid Item Name:	PLANT MIX SU	RF GR S-3/4 IN		
CONCRETECTASS GENERAL (608010200) CONCRETECTASS GENERAL (608010020)	Material Type:	PLANT MIX BIT	SURF GR S - 3/4 IN		
CONCRETE-CLASS GENERAL (608010020)	Effective Date:	2/26/2015	Vol	umetric Accepta	nce
	Comment:	Update per 2/26/15 supplemental, update D/A.			
	Unit Cost:	42.00	Contract Quantity:	8019	Ton
	Base Price:	0.00	Bid Item Number:	401020045	
	Pit Lab Number:	53-080044	Material Code:	401.03.01.01	
	Last Modified By:	PETERSON, EN	- NLY		
Add Material View Selected	Status: Locked by PETERSON, EMILY				
laterial Version Info for Selected Item Material Version Comment: Unit Cost: 42.00 Last Modified By:	Edit Material Version				
Base Price: 0.00 Status: Currently	in Specification Review	Mode - Unlocked b			
Quantity: 8019 Ton	in openioation review	mode officiated i	y rerenson, emer		
Line Item Number: 0120					
Aggregate Gradations					

- After you click OK it will bring you
 back to this screen. I suggest you
 save your progress. You will need
 to continue to lock the
 information that is under the
 "Material Info for Selected Test"
 located at the bottom of the
 screen.
- Highlight Daily Plant Mix Report and click "Review."

Daily Plant Mix Report Material Info	
Material Item Information Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN	ОК
Unit Cost: 42.00 Base Price: 0.00	Lock Cancel
Type of Plant Batch V Mix Design Date 3/ 2/2020	Bin Splits Bin Type Gsb (Specific Gravity) Split %
Mix Design No. 1 Mix Type Grade S 🗸	1 Coarse 2.639 44
Specification Items Number of Lifts 2 Design % Voids 4	2 Intermediate 2.643 15 3 Natural Fines 2.627 39.6
Average Plan Thickness 2.4 in Design Density 2.378	4 Hyd Lime ∨ 2.364 1.4 5 No Bin ∨
Maximum Mixing Temperature 355 °F Design % of Asphalt 4.9	6 No Bin V
Minimum Mixing Temperature 280 °F Design % Hyd. Lime 1.4 Design Rice Density 2.476 Design % Additive 2 0	7 No Bin ~
Design VFA 71.8 Max % Hyd. Lime 1.6	9 No Bin ~
Design Asphalt Type 70-28 V Design Additive 2 Type	Total 100.0 %
Design Hyd. Lime Type Hydrated Lime 🗸	Print Preview

- Review that all the specifications were set up correctly. These specifications were set up in Slide 14. You can review that slide to be sure you are checking everything that was setup.
- After everything is checked, select "Lock" and then "OK".

kisting Material Items	Information for Select	ted Item			
COVER - TYPE 2 (409000020)	Spec Year:	2014			
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Bid Item Name:		JRF GR S-3/4 IN		
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Material Type:		T SURF GR S - 3/4 IN		
CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010050)	Effective Date:				
CONCRETE-CLASS GENERAL (6060 10050)		2/26/2015		umetric Accept	ance
	Comment:	Update per 2/2	26/15 supplemental, upda	te D/A.	
	Unit Cost:	42.00	Contract Quantity:	8019	Ton
	Base Price:	0.00	Bid Item Number:	401020045	
	Pit Lab Number:	53-080044	Material Code:	401.03.01.01	
		33-000044		401.03.01.0	
	Last Modified By:	PETERSON, E	EMILY		
Add Material View Selected	Status:	Locked by PE	TERSON, EMILY		
aterial Version Info for Selected Item					
Material Version 1 v of 1 New Material Versio	on Edit Material Version	-			
Comment:	Cont Material Version	n			
	Bv: Material Version Crea				
42.00	by: Material Version Crea	uon			
	ently in Specification Review	/ Mode - Unlocked	by PETERSON, EMILY		
Quantity: 8019 Ton					
Line Item Number: 0120					
garegate Gradations Material Info for Selected Test					
laily Plant Mix Report Daily Plant Mix Report					
Aumetric Testing	KYLE				
lide Specification Review					

- After you click OK it will bring you back to this screen. I suggest you save your progress. You will continue to lock the information that is under the "Material Info for Selected Test" located at the bottom of the screen.
- Highlight Plant Mix Density and click "Review."

Plant Mix Density Material Info	
Material Item Information Material Item Name: PLANT MIX BIT SURF GR S - 3/4 IN	ОК
Unit Cost: 42.00 Base Price: 0.00	Cancel
Default Lot Size: 3000 Ton Lock	Print
Specification Items	Print Preview
Incentive	
Minimum Percentage 94	
Maximum Percentage 95	
Deduct	
Minimum Percentage 93 Project Contains Mix Placed Directly On Crushed Aggregate Surfacing (CAC)	
F Factor 12 Lift On CAC Minimum Percentage 92	

- Review that all the specifications were set up correctly. These specifications were set up in Slide 16. You can review that slide to be sure you are checking everything that was setup.
- After everything is checked, select "Lock" and then "OK".

xisting Material Items	Information for Select	ed Item	
COVER - TYPE 2 (409000020)	Spec Year:	2014	
CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Bid Item Name:	PLANT MIX SURF GR S-3/4 IN	
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045)	Material Type:		
CONCRETE-CLASS GENERAL (608010020)	Effective Date:	PLANT MIX BIT SURF GR S - 3/4 IN	
CONCRETE-CLASS GENERAL (608010050)	2.1004.10 2 200.		olumetric Acceptance
	Comment:	Update per 2/26/15 supplemental, upd	ate D/A.
	Unit Cost:	42.00 Contract Quantity:	8019 Ton
	Base Price:	0.00 Bid Item Number:	401020045
	Pit Lab Number:	53-080044 Material Code:	401.03.01.01
	Last Modified By:	PETERSON, EMILY	
Add Material View Selected	Status:	Locked by PETERSON, EMILY	
Material Version 1 vof 1 New Material Version	Edit Material Version	1	
Material Version 1 v of 1 New Material Version Comment:	Edit Material Version		
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By: Base Price: 0.00	Material Version Creat	ion	,
Material Version 1 of 1 New Material Version Comment:	Material Version Creat		,
Comment: Last Modified By: Unit Cost: 42.00 Last Modified By: Base Price: 0.00 Status: Currently	Material Version Creat	ion	,
Material Version 1 of 1 New Material Version Comment:	Material Version Creat	ion	,
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By: Base Price: 0.00 Status: Currently Quantity: 8019 Ton Ton Line Item Number: 0120 Material Info for Selected Test Aggregate Gradations Ride Specification Ride Specification	Material Version Creat	ion	,
Material Version 1 of 1 New Material Version Comment:	Material Version Creat	ion	,
Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By: Base Price: 0.00 Status: Currently Quantity: 8019 Ton Line Item Number: 0120 Material Info for Selected Test	Material Version Creat	ion	,

- After you click OK it will bring you back to this screen. I suggest you save your progress. You will continue to lock the information that is under the "Material Info for Selected Test" located at the bottom of the screen.
- Highlight Ride Specification and click "Review."

Edit Ride Spec Material Info						
Spec Effective Date	4/21/2016 ~					
Project Category	III ~					
Unit Cost	4.283 \$/ft					
Lock	Print					
	Print Preview					
OK	Cancel					

- Review that all the specifications were set up correctly. These specifications were set up in Slides 18 and 19. You can review those slides to be sure you are checking everything that was setup.
- After everything is checked, select "Lock" and then "OK".

Existing Material Items	Information for Select	ed Item				
COVER. TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED TOP SUBFACING TYPE A GRADE 2 (301020340) CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S = 3/4 IN (401020045) CONCRETE-CLASS GENERAL (608010020) CONCRETE-CLASS GENERAL (608010020)	Spec Year: Bid Item Name: Material Type: Effective Date: Comment: Unit Cost: Base Price: Pit Lab Number: Last Modified By:	Bid Item Name: PLANT MIX SURF GR S-3/4 IN Material Type: PLANT MIX BIT SURF GR S - 3/4 IN Effective Date: 2/26/2015 Comment: Update per 2/26/15 supplemental, update Unit Cost: 42.00 Base Price: 0.00 Pit Lab Number: 53-080044				
Add Material View Selected	Status:	PETERSON, E	ERSON, EMILY			
Material Version 1 New Material Version Comment: Unit Cost: 42.00 Last Modified By: Base Price: 0.00 Status: Currently Quantity: 8019 Ton Line Item Number: 0120 120	Edit Material Version Material Version Creat in Specification Review	ion	by PETERSON, EMILY			
Aggregate Gradations Daily Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing Review Last Modified By: DUBBS, KYLL Status: Currently in Specification		ed by PETERSON	I, EMILY			

- After you click OK it will bring you back to this screen. I suggest you save your progress. You will continue to lock the information that is under the "Material Info for Selected Test" located at the bottom of the screen.
- Highlight Volumetric Testing and click "Review."

Edit Volumetric Testing Materia	al Info - PLANT MIX B	IT SURF GR S - 3	3/4 IN		
Contract Unit Price (\$) 42.0	0	Unit Base Pric	ce (\$) 0.00		ОК
Mix Design Number: Aspl	nalt w/Lime	Mix Design [Date: 3/ 2/2	020 🔲 🔻	
Mix Design Gmm: 2.47	6 Hyd Lime	Bulk Specific Gr	avity: 2.364	Default Lot	Size: 5000 Ton Cancel
Specifications					Asphalt Information
Specifications					Asphait Information
Specification Date: 2	2/15/2005 ~				Asphalt Type 70-28
	% Voids	VMA	VFA	D/A Ratio	Asphalt Supplier Calumet
Target Value	4	14	71.8	0.98	Asphalt Specific Gravity 1.033
Allowable Target Range	3.4-4.0	13.0-17.0	65-80	0.6-1.4	Print
Incentive Tolerance	N/A	N/A	N/A	N/A	
Incentive Range	N/A	N/A	N/A	N/A	Print Preview
Job Mix Tolerance	1.0	0.6	5	0.2	
Job Mix Range	3.0-5.0	13.4-14.6	67-77	0.8-1.2	
Incentive	0.02	0.02	0.02	0.02	
F' Factor	6	6	2	30	Lock
Notes:					

- Review that all the specifications were set up correctly. These specifications were set up in Slide 21. You can review that slide to be sure you are checking everything that was setup.
- After everything is checked, select "Lock" and then "OK".

xisting Material Items	Information for Select	ed Item		
COVER - TYPE 2 (409000020) CRUSHED BASE COURSE TYPE A GRADE 6 (301020340) CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)	Spec Year: Bid Item Name:	2014 PLANT MIX SURE GR S-3/4 IN		
CONCRETE-CLASS GENERAL (609010200) PLANT MIX BIT SURF GR S - 3/4 IN (401020045)				
CONCRETE-CLASS GENERAL (608010020)	Material Type:	PLANT MIX BIT	SURF GR S - 3/4 IN	
CONCRETE-CLASS GENERAL (608010050)	Effective Date:	2/26/2015	Vol	umetric Acceptance
	Comment:	Update per 2/2	6/15 supplemental, upda	te D/A.
	Unit Cost:	42.00	Contract Quantity:	8019 Ton
	Base Price:	0.00	Bid Item Number:	401020045
	Pit Lab Number:	53-080044	Material Code:	401.03.01.01
	Last Modified By:	PETERSON, E		<u></u>
Add Material View Selected	Status:	Locked by PET	ERSON, EMILY	
Material Version Info for Selected Item Material Version 1 of 1 New Material Version Comment: Unit Cost: 42.00 Base Price: 0.00 Quantity: 8019 Ton Line Item Number: 0120 Aggregate Gradations Daily Plant Mix Report Plant Mix Density Ride Specification Volumetric Testing View Last Modified By: PETERSON,	in Specification Review	ion	Loo	-* K

- After you click OK it will bring you back to this screen. I suggest you save your progress.
- Next, verify that the information under the "Material Version Info for Selected Item" is correct.
 - Click "Lock" and save.
- This item is now ready for data entry.