### Comput-Ability® Estimating Systems Mechanical Insulation's Key Estimator<sup>TM</sup> - Version 20-1

### MIKE<sup>TM</sup> What's New in MIKE 20.

There are many new enhancements and features in **MIKE 20.** But the system still has the same look and feel as **MIKE 10** so the transition time to become familiar **MIKE 20** will be minimum.

MIKE-20-1-ESTIMATES Versi	ion 20.1.27 03/25/	2020			
Mechanical The Most Pro	OMP Insulatio "MIK oductive Est	ut-A on's <u>Key</u> (E™" timator Yo	Ability <sup>®</sup> / Estimator™ ou Can Hire.™ License Location	Comput-Ability® - MIKE™ Updated Prices Avalable Computer Prices Available For Updating	10-1 What's New
This system contai	ns trade secre	ets.	KeyLokll SN: 483		posted 1/17/20
Comput-Ability®, In Charlotte, North Ca is the Copyright, Tr Trade Mark owner.	corporated, irolina, USA rade Secret ar	nd	627963975	New Vendor Updates are on the way. Please make sure your MIKE system is un to date	MUST UPDATE YOUR SOFTWARE
All Rights Reserve	d.			is up-to-uate.	
Last Full Backup Date and Time		00:00.00	Backup Now		
MIKE 20:			View Notes	Join our Group MIKE™ Estimating System	• In
Installed Version	20.1.27 03/25	/2020		User's Group	· • • • • • • • • • • • • • • • • • • •
Update Available	20.1.27 03/25	/2020			
VTO6:			View Notes	New Vendor for	
Installed Version	6.1.32 03/18/2020			Fabricated	DEFUIER
Update Available	ailable 6.1.32 03/18/2020			Products	MECHANICAL
	Server 1 Server 2			Prices now Available	Posted 8/6/19
Version Notes	Estimate	s Module	ОК	Comput-Ability Remote Support	www.Comput-Ability.com

Estimates	🖻 🚑 🧶 🗭 🚻 💽 🛃 Systems	E E E E & &	i T 🖪 🛯 🥥 💆 Linkage	Manual Ta	keoff VT	06 Takeoff	Recalcu	ulate	Re	сар		Reports
Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng T	ype Proje	ct Oper	n Won	
200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI C	OM			lore
400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	ND			
500.00	Power Plant Flat Work	TVA	03/28/2016	00:00:00	\$161,898.61	MRM	MAS	CAI P	ow			
600.00	Multi-Layer Wrap	Houston	03/18/2016	10:20:23	\$36,002.72	Mike	MAS	CAI	ND			
Modify Estima	te Jump to Estimate	Locate on Name Loca	ate on Location So	rt on Number	Sort on Na	me Sort on L	ocation	Clean E	stimate		Estimate M	/anual 🖡
ate New Estin	nate Create from Old	List Report Proje	ct Maintenance		Export Estim	nate Delete E	stimate		ALL Estima	ators ~		1901

### Number 1: Estimates *tab*

A larger **Estimate Number**. The **Estimate Number** was changed from a 6-digit numeric to an 8.2-digit numeric field.

Estim	nates	Systems	Specifications	Link	age	Manual Ta	akeoff 🛛 🔪	TO6 Takeoff	Recald	ulate		Recap			Reports	
Num	iber f	Estimate Name	Location		Bid Date	Bid Time	Price	Estimator	Set	Arch Eng	Туре	Project	Open Lock	Won		^
20	00.00	Office Building	Charlotte		01/01/2020	00:00:00	\$47,686.6	51 KJT	MAS	CAI	сом				More	
40	00.00	Process Plant	Kansas City		01/01/2020	16:00:00	\$116,118.9	52 Mike	MAS	CAI	IND					-
50	00.00 F	Power Plant Flat Work	TVA		03/28/2016	00:00:00	\$161,898.0	61 MRM	MAS	CAI	POW					
60	00.00	Multi-Layer Wrap	Houston		03/18/2016	10:20:23	\$36,002.7	72 Mike	MAS	CAI	IND					
		•														

What is nice about this change is that allows you to group estimates together by using the 2 decimal digits to the right of the decimal point.

	Estimates	mates Systems Specifications Linkage		kage	Manual T	akeoff V	FO6 Takeoff	Recalculate			Recap		Reports		s
Г									Arch	-		Open			^
	Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Eng	Туре	Project	Lock	Won		
	200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	СОМ					
	200.10	Office Building Change Orders	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	сом				More	
	400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	IND					
	500.00	Power Plant Flat Work	TVA	03/28/2016	00:00:00	\$161,898.61	MRM	MAS	CAI	POW					
1	600.00	Multi-Layer Wrap	Houston	03/18/2016	10:20:23	\$36,002.72	Mike	MAS	CAI	IND					

### Number 2:

New and enlarged Estimate Master Fields.

💽 Modify Estimate Setup		
Estimate Number Estimate Short Name	200.10 Office Building Change Orders	Lock Estimate from Calculation Estimate Long Name - Press Ctrl+F to Change Font Use this Estimate to do all Change Order Estimates
Estimate Location Estimator Estimate Type	Charlotte	Last Pipe Line Number Last Duct Line Number Last Equip Line Number Reduce Pipe Equivalent Lineal by
Arch/Engineer	CAI Comput-Ability Inc	Default Takeoff Software VTO6  Update Detail Lines Estimate Long Location - Press Ctrl+F to Change Font
Bid Date Received	01/01/2020         Hint         00.00.00           12/25/2019         Estimate Created           01/01/1901         Date         01/01/2020	Unit Price Estimate Labor Only Material Only Update Existing Specs
Project Code	01/01/1901 € Time 00:00:00	BOM Round Up Cost I To Recap Other Material Sizes Imperial O Metric Quantities Imperial O Metric

Estimate Short Name and Location increased to 50 characters.

New **Estimate Long Name** and **Estimate Long Location** fields added. With the ability to change font.

### Number 2: Estimates tab (continued)

Three Additional Date Fields with user defined Titles.

🚱 Modify Estimate Setup			×
Estimate Number Estimate Short Name	200.10 Office Building Change Orders	Lock Estimate from Calculation	Estimate Long Name - Press Ctrl+F to Change Font Use this Estimate to do all Change Order Estimates
Estimate Location Estimator	Charlotte	Last Pipe Line Number Last Duct Line Number Last Equip Line Number	
Estimate Type Prod Se Arch/Engine C	COM C MAS C MASTER SET	Reduce Pipe Equivalent None  Default Takeoff Software  VT06  Undate Defail Lines	Estimate Long Location - Press Cirl+F to Change Font
Bid Date Received	01/01/2020         €         Bid Time         00-00-00           12/25/2019         €         Estimate Created           01/01/1901         €         Date         01/01/2020	Unit Price Estimate Labor Only Material Only	Same Location
Project Code	01/01/1901 C Time 00:00:00	BOM Round Up Cost I To Recap Other Material Sizes Imperial O Metric Quantities Imperial O Metric Notes	

A Secured/Won Field that shows up on the Estimate List Tab.

_	Estimates	Systems	Specifications I	Linkage	Manual T	akeoff V1	i O6 Takeoff	Recalcu	ulate	Reca	эр		Reports	4
1	Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng Ty	pe Project	Open Lock	Won		^
1	200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI C	эмΙ		×	More	
	200.10	Office Building Change Orders	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI CO	MC				1
Ľ	400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	2 Mike	MAS	CAI IN	٩D				



This **Secured/Won Field** is also a selection field in the **Print Estimate Master List** program.

A **Unit Price Estimate** *check box.* This new feature will be explained in more detail later in this document.

### Number 3: Systems tab

The biggest change in the **Pipe and Duct Systems** *tab* is the addition of a new *check box* with the column header of  $\bigcirc$ . This *check box* tells the system that there is a separate Specification for the oversize fitting different than for the pipe and all other fittings. By checking this box two Sys/Spec Linkage records are created. This will be explaimed in more detail in **Linkage** *tab* section further on in this document.

The other change is for the **VTO6** color selector and a *button* to update the color in the **Systems Library** table.



#### Note:

**Visual TakeOff®** version 6 (VTO6) is the upgrade from **Visual TakeOff®** version 5 (VTO5). VTO6 Will be explained in more detail in another document and will have new how to videos to show how to use it. All VTO5 data and drawing will be converted to VTO6 when you convert an estimate from MIKE 10 to MIKE 20.

### Number 4: Specifications tab

A lot has changed in the **Pipe** *tab* under the **Specification** *tab*.

Estimates De Duct	Systems Specifications	Linkage	м	anual Take	off	VTO6 Takeoff	Recalcula	ite Re	сар	Rep	orts
Code	Description	Material	s	* Estimate M	aterial P	rices	Fi	nish	0	versize End C	aps
AG-CG-ALM	Aerogel CryoGel with Alm		Vendor	Material	Type		Waste	Change All	FVs	1 Jacket 1	~
AG-PG-ALM	Aerogel Pryrogel with ALM	Insulation	AGL	ACGZ	M	% Discount	Pipe	1 Jacket 1	V Strns	1 Jacket 1	~
		Jacket - 1	AAO	ALM1		0.75 \$/SQ	90s	3 Covering 1	✓ Bends	1 Jacket 1	~
T		Jacket-2	NON	NON		\$/SQ	45s	1 Jacket 1	~ ECaps	1 Jacket 1	~
		Covering - 1	ITW	IFAL	E	% Discount	Tees	1 Jacket 1	V Rdcr	1 Jacket 1	~
		Coverin	NON	NON		% Discount	UCs	1 Jacket 1	~	0 Insulation	~
		Jret - 3	NON	NON		\$/SQ	WVs	1 Jacket 1	~	0 Insulation	~
		Covering - 3	NON	NON		% Discount	BVs	1 Jacket 1	~	0 Insulation	~
		Covering - 4	NON	NON		% Discount	FPs	1 Jacket 1	~	0 Insulation	~
		Flange Pair	/Valve PS	6 150	~ J	acketLap 2.00	Access	pries <u>P</u> ipe	Yes	Eitting	No
		Labor Mod	difiers	Labor Or	nly	Auto Calc 90s	Inline Couplings	Count Items	Back C	Out LF	
			Pipe	Ov Fittings Fit	ersize ttings	Calculate	Calculate	Code 1 NON	Code 2 N	ON Code 3	NON
		Insulation				% 90s	LF/UC	Calculate	Calcula	ite Ca	lculate
		Finish				Check for F	inish Only	LF/EA	LF	JEA	LF/EA
				-					m		_

The foremost change is that the **Specification (Spec) Code** has be increased from a 3-character alpha field to a 10-character alpha field. And the **Spec Description** has been increased to 50 characters.

The **Material Code** now is attached to a **Vendor Code**. This isn't a change to the system that is an enhancement for the estimator, it was done for **Comput-Ability®**. The **MIKE<sup>TM</sup>** System has at least 75 unique **Vendors** with close to 1,300 unique **Material Codes** with over 300,000 individual prices in its **Price** database. Making a unique 4-character **Material Code** was becoming very difficult. Attaching the codes together allows us to reuse a **Material Code**.

## Number 4: Specifications *tab* (continued)

A third **Count Item** has been added to the Spec.

Count Items	Back Out LF						
Code 1 * SDL	Code 2	DB6	Code 3	D12			
⊡Calculate	Calc	ulate	⊠Cal	culate			
9.00 LF/EA	10.00	LF/EA	7.00	LF/EA			
SADDLES W/SHIELDS-BUC-SAD -E							

Note: The different LF/EA

Shown below is the Estimate attached Count Item table please note that the Count Item 2 is calculated at every 10 LF of Pipe up to 6" Pipe Size and Count Item 3 is calculated at every LF of Pipe from 6.5" and above Pipe Sizes.

<table-cell> Se</table-cell>	lect Estimat	e Count Ite	m								×
F											
	Count Item	Vendor Code	Material Code	Туре	Description	Hours Per Item	Cost Per Item	Qty	Start Pipe Size	End ipe Size	^
	D12	NON	NON		LF of 12" 6#DB at Hangers	0.25	0.50	1.00	6.50	9999.99	
	DB6	NON	NON		LF of 6" 6#DB at Hangers	0.20	0.25	1.00		6.00	
	HGN	ALT	AW8S	1	1/2 SECTION CAL SIL 1.5'AT HGS	0.17		0.75	7	9999.99	
	HGP	IFI	IFH4	I.	1/2 SECTION Polylso 1.5'AT HGS	0.17		0.75		9999.99	
	ICS	NON	NON		INSTRUMENT CONNECTIONS	0.33	4.00			9999.99	
	SDL	BUC	SAD	Е	SADDLES W/SHIELDS	0.25		1.00		9999.99	
	STF	NON	FGN		DUCT STIFFENER 1/2 sec FG PC	0.33	15.00	10.00		9999.99	
	VSP	NON	NON		VERTICAL SUPPORTS	0.50	5.00			<del>3</del> 999.99	
L	BUCKAR	OO INC			Galv-CarbonSteel Saddle12"			How to (	Guide 🕅	1	•
	Sele	ct	Add f	irom Lit	prary	Ν	lodify Reco	rds		Cancel	

### Number 4: Specifications *tab* (continued)

A new **Oversize End Caps** button.

Oversize End Caps	Oversize End Caps

If there are not any <u>Oversize End Caps</u> the *button* font will be a regular font. If there are **Oversize End Caps** then the *button* will be a **bold** font.

*Clicking* on the *button* brings up the following **Oversize End Caps** screen:

	🕜 Oversize End Caps
If the <u>Oversize End Caps</u> are not set up then this screen's field will be blank.	Vendor     NON       Material     NON       Disc or SF\$     View Prices
	Number of Oversize End Caps
	For BVs For FPs For FVs For Strns

You will need to Select a valid Material Code and enter the quantity of **Oversize End Caps** each of the **Oversize End Fittings. BVs, FPs, FVs, and Strns.** 

The Material Type for Oversize End Caps be a Jacket 'J' Material Type or Each 'E' Material Type.

Oversize End Caps	<table-cell> Oversize End Caps</table-cell>
Vendor AAO ALL OTHER	Vendor MAN MANVILLE
Material ALM1 ← Aluminum .016	Material ZES 2000 SR W/O Insert
SF Cost 0.75	Discount -19.00 View Prices
Number of Oversize End Caps	Number of Oversize End Caps
For BVs         2         For FPs         2         For FVs         3         For Strns         3	For BVs         2         For FPs         2         For FVs         3         For Stms         3

The quantity of **Oversize End Caps** will auto calculated based on the quantity of the **Oversize End Fittings**.

Note:

**ONLY Material** cost will be added to the Estimate **NO Labor**. The **Labor** comes from the **Oversize Size Fitting** they are attached to.

### Number 4: Specifications *tab* (continued)

Not much has changed in the **Duct** *tab* under the **Specification** *tab*.

MIKE-20	0-1-ESTIMATING		
Eile Ed	lit <u>O</u> ptions <u>H</u>	elp 😚 Remote Support   Select Databases 🧃 😓 🕪 🔃 📰 📑 📰 📰 🔛 🔍 🗛	Estimates 🍸 Tables Library Estimate Utilities Library Utilities VTO6 Utilities Backup 🔂 Export Folder Navigation Convert MIKE 10 Data 👂 🍸 🕞 🕲 🗊
Est	limates	Systems Specifications	Linkage Manual Takeoff VT06 Takeoff Recalculate Recap Reports
Pipe	Duct		
	Code	Specification Description - Duct	
	DBA	DUCT BOARD / ALM	Materials
	DUW	Duct Wrap	Vendor OCF Type Discount Modifier Waste Width Lap Lap Thicknes
	FMW	Firemaster Wrap	Insulation 073A B % % 10.00 % 48 in in in 2.00 in
			Insulation Prices
			Vendor AAO
			Finish ALMI \$ 0.75 // IM % 10.00 % 36 in 3 in 3.00 in
			Accessories Yes Labor Only Count Items Code 1 NON Code 2 NON
			Specifications Manual
			Copy from Library     Copy to Library     Copy in Estimate <u>Notes</u>
Estimate	200.00 Na	ame Office Building	Location Charlotte Estimator KJT Set MAS A/E CAI

We have added three new **Duct Accessory** calculation types.

😧 E	stimat	e Spec Accessories													X
C	ode	Description	Order Price		Order UOM		Coverage Conversion		Takeoff UOM			Size/Thick in BOM	Prod	Apply to	^
в	SS	SS Bands	0.15	1	LN	@	12.0000	in	SO Stretch Out OC 🗸			Yes	0.00	Duct	
с	RB	Cornerbead	0.30	1	FT	@	4.0000		LN Lineal SQ Insulation	per	FT	No	0.00	Duct	
s	CD	SILICONE CAULKING DUCT	3.00	1	тв	@	75.0000		OC On Center JL Joint Length	per	тв	No	0.00	Duct	
т	P6	3" TAPE SOFT FOIL 150' #488	6.40	1	RL	@	145.0000		JJ Jacket Joint WA Width Area	per	RL	No	0.00	Duct	
Г							-		HA Height Area PW Pin Width						
L								5	SO Stretch Out OC CJ Circum Joint						
L								-	LJ Long Joint						
															v
	c	opy Line Copy from Lit	orary		(	Сору	to Library		Duct Ac	cesso	ries		Acc	essory Manual	æ
	_		_		_		_		- L						

## **CJ**-Circumfrential Joint

### LJ – Longitudinal Joint

Thes two types are like JL–Joint Length but separates the LF into Circumfrential LF and the Longitudinal LF

**SO Stretch Out On Center** – This works just like the **Pipe SO** works but uses the OD of outside of the Duct plus the Insulation thickness.

#### Number 5: Linkage tab

The biggest change in the **Linkage** *tab* is the addition of a new **Oversize Spec Linkage** column with the column header of  $\bigcirc$ . If a **System** in the **Systems** *tab* has the **Separate Oversize Fitting Specification** *check box* checked an additional record will be auto created here with an  $\bigcirc$  in the **Oversize Spec Linkage** column. This tells the system to use a separate **Spec** for any oversize fittings.

The examples below show the **REF System** that has Flex Tubing on the pipe a regular fitting and Flex Sheet on the oversize fittings.

The **CHW System** and the **STM System** have sectional pipe insulation and have Pipe & Tank Wrap on the oversize fittings.

The other changed in the **Pipe and Duct Systems** *tab* under the **Linkage** *tab* is the SPEC Code now is 10-character alpha.





Number 5: Linkage *tab* (continued)



Another new feature that isn't in MIKE 20 yet but will be soon is the ability to change a **System/Spec Linkage** by **Insulation OD** range instead of **Pipe Size** range.

### Number 6: Manual Takeoff tab

The **Manual Takeoff** screens now open with a **Start Takeoff** *button* if there is no detail takeoff records. *Click* the **Start Takeoff** *button* to do manual takeoff.



If there are detail takeoff records it acts like it always has in **MIKE 10** except no VTO6 detail records will display in this screen. You can now **Override the PSI** of **FPs** and **FVs** on the **Detail Takeoff** line.

Est	imates	3	Systems	Spe	cification	IS	Lin	kage		Manual	Takeof	f	<b>VTO6</b> T	akeoff		Reca	lculate	Reca	р	Reports
	Pipe		Duct		Assigne	d Equip	oment	Buil	ld Equ	uipment		Sund	ries		Fla	t Work	<b>(</b>	Assemblie	S	
					<b>a</b> .				0								Oversi	ze Fittinas	-	Misc Fittings
#	Alt	Drawing	Zone		Code	Туре	Pipe Size	Ihick	D	Pipe	90s	45s	Tees	UCs	WVs			co i nango	ECaps	0.00
		2306-1A	345436		LPS	1	10.00			67.00	11						BVs	0.00	Rdcr	0.00
		4567-1	45679-F		HPS	Α	4.00			172.00	18		4				FPs	0.00		0.00
		4557-2	A		HPS	Α	7.00	2.50		100.00							FVs	0.00		0.00
		4557-2	A		HPS	Α	6.00	2.50			0.00	0.00	0.00	0.00	0.00		Strs	0.00		0.0
																	Bends	0.00		0.0
																	NON NON NON	nt Items 0.00 0.00 0.00 0.00	Labor Overrid Detail 10/27	Modifie         0           te PSI         600           Code         150           7/06         300           600         900
																	<u>T</u> itles	s Take py <u>Q</u> ui	off <u>S</u> etup ck Copy	Drops/ <u>R</u> iser
																	Auto Zoom	Pipe	90s	Other Fitting
																~				v. o view
'S	High P	ressure Ste	am Sort on	System-S	Size Ch	ange Al	Iternate										Zoom	Wide	Calcula	tor <u>N</u> otes
	CSAS	\$	Thicknes	s	Fee	et			2	72	18		4				Ditto	Paste		<b>£</b>

## Number 6: Manual Takeoff *tab* (continued)

There are Three (3) new Accessory calculation code in **Build Equipment Specs**.

## JL-Joint Length

## JJ-Jacket Joint

### **BA-Butt Area**

File	Edit Options	Help	ଚିଙ୍କ Remote Support 🕴 Selec	t Databases 💵   🔍   🖗	🗊 Estim	nates 🔳 Tab	iles Libra	ry Estimate	Jtilities	Libra	ary Utili	ties VTO6 Utili	ities Backu	p 🕞 Export Folder	Navig	ation	Convert MIK	E 10 Data		
	Estimates Pipe		Systems Speci Duct A	ifications ssigned E	quipme	Linkage ent Buil	M: d Equipm	anual Take ent	off Su	VT ndries	06 Ta 3	keoff Flat	Recalcula t Work	te Rec Assembl	ap ies		Repo	rts		
			Equipment									Specifi	ications							
	Code		Description						Mat	erials				Productivity						
	AG-PG-ALM	N	PyroGel / ALM			Insulatio	on Code													
	PTWRAPAL	MR	P&T Wrap/ALM Rolls			Vendor	KNF	Discou	nt T	hickne	ss I			Code						
	PTWRAPAL	MS	P&T Wrap/ALM Sheets			Materia	KBF	- 0.0	0%	2.00	-				-					
						Descrip	tion	Knauf Pipe8	Tank	FSK	KNF									
						Insulat	ion Prices	Insulation	Nidth i	n Feet	3	.00 Note: Zo measum	oom on nents in Feel and from	t						
						Finish	Code	L	engtni	nreet	24	Inches.	artiioin							
						Meterie		Co	st 70					Finish ALM	-					
						Deserie		Aluminum	/5											
						Descri	Juon	Aluminum		AAO										
							Layer			F	inish A	rea Calculatior	י 	Labor Only Specificatio		1				
							○ Inner		OR	olls	1	ength in Feet.	4.00							
							<ul> <li>Outer</li> </ul>		● Sh	ieets	1	Width in Feet	3.00	Access	ories					
									ON€	et Area	<u> </u>	ap in Inches	3.00	v	1					
				💽 Estima	te Spec A	ccessories														×
														<b>T</b> 1 <i>K</i>			0. (71.)			
				Code	Descrip	ption		Ord	er e	UO	ler M	Coverage Conversion		UOM			in BOM	Prod	Apply to	
Estim	ate 200.00	Name	Office Building	BNE	3/4" Al	LM BANDS		C	.10 /	LN	N @	1.5000	SQ	Insulation	per	LN	No	0.00	Equipment	
				SSS	SS Sc	ews		(	.05 /	E	A @	1.0000	JJ	Jacket Joint 🗸	per	EA	No	0.00	Equipment	
													00	On Center						
												_		Joint Length Jacket Joint						
													BA	Butt Area						

### Number 6: Manual Takeoff *tab* (continued)

There is now a new Assemblies *tab* in the Manual Takeoff *tab*.

In MIKE 10 these Assemblies (Connection Codes) were stored in a Library Table. In MIKE 20 they are copied from the Library Table into the Estimate. They work just like they in MIKE 10 and VTO5, but now they can be modified and made Estimate Specific.



## Number 7: VTO6 Takeoff tab

# They VTO6 Detail Takeoff now displays in the VTO6 Takeoff *tab*.

Esti	imates	•	Systems	Spe	cification	IS	Lin	kage		Manual	Takeo	f	<b>VTO6</b> T	akeoff		Reca	lculate	Reca	C	Re	ports
	Pipe		Duct		Assigne	d Equip	oment	Buil	d Eq	uipment		1									
												-									
#	Alt	Drawing	Floor		System	Туре	Pipe	Thick	S	Pipe	90s	45s	Tees	UCs	WVs	^	Over	size Fittings	1	Misc Fitting	gs
50001		Level 4 HVA	2nd		CHW	А	2.00		-	216.24	0.00	0.00	0.00	0.00	0.00		BVs	0.00 1	ECaps	0.00	
50002		Level 4 Hydr			СНЖ	А	1.00			15.90							FPs	0.00 2	Rdcr	0.00	
		Level 4 Hydr			снพ	Α	1.25			136.38							FVs	0.00 3		0.00	
		Level 4 Hydr			СНЖ	А	2.00			151.56	2						Strs	0.00 4		0.00	
		Level 4 Hydr			снพ	А	2.50			282.08										0.00	
		Level 4 Hydr			нжн	Α	2.00			207.15	2						Bends	0.00		0.00	
		Level 4 HVA			СНЖ	Α	1.50			20.00	8				4		Co	ount Items	Labor	Nodifier	0.00
		Level 4 HVA			СНЖ	Α	4.00			15.00	6						SDL	0.00 96	Overrid	e PSI	~
																	9.00 DB6	0.00	Detail 0	Code	
																	10.00	0.00	03/27	/20	15:20:37
																		0.00	Term ID		1 A
																	<u>T</u> itl	es			
																J	VTO6		/	<u>V</u> T06	
CHW (	Chilled	Water	Sort or	n System-	Size															I	Notes
	FSP		Thicknow			ot				152	16		5						Refree	ah 🔟	
	TaP		Thicknes		Fe	01			3	132			5						ea		

Est	imates Sy	stems	Speci	fications	Lin	kage		Manual	Takeoff	V	TO6 Takeo	ff	Rec	alculat	е	F	Recar	p Re	ports
	Pipe	Duct	A	ssigned Equip	nent	Bu	ild Equ	ipment											
#	Alt Drawing	Floor		Sy	/stem . code	Туре	Shape	Width	Height	Thick	Length	NON	NON	Labor Mdfr	Det Cd	Area	^	03/27/2020	
50001	Level 4 HVAC			5	SUP	Α	REC	8.00	8.00		23.36						1	15 00 07	
50002	Level 4 HVAC			5	SUP	А	REC	10.00	12.00		13.98						7	15:20:37	
	Level 4 HVAC			5	SUP	Α	REC	12.00	10.00		27.47							Term ID 1 A	
	Level 4 HVAC			5	SUP	Α	REC	12.00	12.00		33.28								
	Level 4 HVAC			5	SUP	Α	REC	12.00	14.00		53.71								
	Level 4 HVAC			5	SUP	Α	REC	14.00	12.00		29.60								
	Level 4 HVAC			5	SUP	Α	REC	16.00	12.00		38.72								
	Level 4 HVAC			5	SUP	Α	REC	16.00	14.00		34.67								
50009	Level 4 HVAC			5	SUP	Α	REC	18.00	16.00		51.25								
	Level 4 HVAC			5	SUP	Α	REC	20.00	16.00		33.01								
	Level 4 Hydronic	2nd		5	SUP	Α	RND	20.00			165.43								
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Supply	Air		DU	W Thick	kness	1	1.50 I	Feet		1542.	48		М	anual [	ŋ	8989.4	3		
		⊥itles									<u>N</u> otes	Refre	sh \	/TO6		~	VT	06	
stimate	200.00 Name Of	ice Building		L	ocatio	n Cha	rlotte				Estim	ator KJ	IT			Set	MAS	A/E CAI	

### Number 8: Recalculate tab

The **Recalculate** *screen* is similar to the *screen* in **MIKE10** with some of the *buttons* moved around to make space. The new item is that there is now a **third sort level** called **Sub Sub Area** in the **Recalculate** *screen*.

Esti	mates	Systems	Specifications	Linkage	Manual Takeoff	VTO6 Tak	eoff F	Recalculate	Recap	Reports
		Last Time 00:00:22	Ignore Negative Exceptions	⊖Yes ⊖No	Check Group A	Area	Sub Area	Sub Sub Area	Review Accessories	
		Calculation Date & Time	Export after	⊖Yes ⊚No	Check Group B	Group A	O Group A	O Group A	Pipe	
		03/18/2020 19:02:38	Calculation		Check Group C		Group B	O Group B	Fittings	
			Grou	up Modifiers	Check Alternates	O Group C	O Group C	Group C	Duct	
				VT06 Refresh Required	Skip VT06 Refresh	Galoup c	Gloup C	Gloup C	Assigned Equipment	
		Update VTO Plan	Load VTO6 Plan Name	o Load 💿 Group A 🔾 🔾	Group B O Group C	OAlternate	OAlternate	OAlternate	Build Equipment	
			Calculate	Reload Table Prices		Calculate	with Estimate	e Prices	Review	
		Pipe Material Costs							Pipe Fitting Factors	
		Pipe Productivities	Thi	is Estimate will put BO	M Round Up Cost in -	Bid Recap O	ther Material	ls	Alternates	
		Duct Material Costs							Material Prod Linkage	
		Duct Productivities							View Logs	
									Labor Modifiers	
		Equipment Material Costs		Estimat	te May Need To Be P	ocalculated			Discounts & SF\$	
		Equipment Productivities		Louna	e may need to be t	ecalculated				
	Re	calculation and Exceptions M	anual 🛱		Exceptions					
Estimate	200.00	Name Office Building		Location Charlotte		Est	imator KJT		Set MAS A/E CA	I

As you can see below in the **Recap** *screen* has many more *buttons* to report on this **Sub Sub Area** sort level. All **Reports** under the **Reports** *tab* all have this **Sub Sub Area**.

Estimates System	s Specifications	Linkage	Manual Takeoff	VTO6 Takeoff	Recalculate	Recap
Estimate Contains Labor I Estimate May Nee This Estimate has BOM Round	Aodifiers or Group Replicators <b>d To Be Recalculated</b> Up Cost in - Bid Recap Other Materials	Total Estimat	e Recap odifier Log	Bid Element Setup	] Bid F	Recap Manual 🕰
·	0.1		-	D'151 - 10 - 1	D:1	
Summary Recaps	System	System/	Туре	Bid Element/System	BIG	Element/Sys/Type
Area	Area/System	Area/Syste	em/Type			
Area/Sub Area	Area/Sub Area/System	Area/Sub Area/	System/Type			
Area/Sub Area/Sub Sub Area	Area/Sub/SubSub/System	Area/Sub/SubS	Sub/SysType			
	System/Size Area/System/Size Area/Sub/System/Size	System/Ty Area/Sys/T Area/Sub/Sys	rpe/Size ype/Size			
_	Area/Sub/Sub/System/Size	Area/Sub/Sub/S	sys/Type/Size		Pipe Only	
	System/Thick/Size	System/Type	/Thick/Size	System/Thick/Size/F	it Syste	n/Type/Thick/Size/Fit
	Area/Sys/Thick/Size	Area/Sys/Type	e/Thick/Size	Area/Sys/Thick/Size/	Fit Area/S	ys/Type/Thick/Size/Fit
	Area/Sub/Sys/Thick/Size	Area/Sub/Sys/Ty	/pe/Thick/Size	Area/Sub/Sys/Thk/Size	e/Fit Area/Su	o/Sys/Type/Thk/Size/Fit
_	Area/Sub/Sub/Sys/Thk/Size	Area/Sub/Sub/Sy	s/Typ/Thk/Size	Area/SA/SS/Sys/Thk/Siz	e/Fit A/SA/S	S/Sys/Type/Thk/Size/Fit
mate 200.00 Name Office B	uilding La	cation Charlotte		Estimator KJT		Set MAS A/E

## Number 9: Recap tab

Besides all the new **Sub Sub Area Recaps** the biggest changes in the **Recap** *tab* are in the **Total Estimate Recap**.

Estimates	Systems	Specifications	Linkage	Manual Takeoff	VTO6 Takeoff	Recalculate	Recap	Repor
Estimate Conta Estimate This Estimate has E	ains Labor Modifi • <b>May Need To</b> 30M Round Up C	ers or Group Replicators Be Recalculated ost in - Bid Recap Other Materials	Total Es View Lab	timate Recap	Bid Element Setup	Bio	l Recap Manual	
Summary Re	caps	System	Sy	stem/Type	Bid Element/Syster	n B	id Element/Sys/Type	
Area		Area/System	Area/	System/Type				
Area/Sub A	rea	Area/Sub Area/System	Area/Sub A	Area/System/Type				
Area/Sub Area/Sub	o Sub Area	Area/Sub/SubSub/System	Area/Sub/	SubSub/SysType				
		System/Size Area/System/Size	Syste Area/S	m/Type/Size Sys/Type/Size				
		Area/Sub/System/Size	Area/Sut	o/Sys/Type/Size				_
		Area/Sub/Sub/System/Size	Area/Sub/S	Sub/Sys/Type/Size		Pipe Only		
		System/Thick/Size	System/	Type/Thick/Size	System/Thick/Size/F	it Sys	em/Type/Thick/Size/Fit	
	[	Area/Sys/Thick/Size	Area/Sys	/Type/Thick/Size	Area/Sys/Thick/Size/	Fit Area	/Sys/Type/Thick/Size/Fit	
		Area/Sub/Sys/Thick/Size	Area/Sub/S	ys/Type/Thick/Size	Area/Sub/Sys/Thk/Size	e/Fit Area/S	ub/Sys/Type/Thk/Size/F	it
		Area/Sub/Sub/Sys/Thk/Size	Area/Sub/Su	b/Sys/Typ/Thk/Size	Area/SA/SS/Sys/Thk/Si	ze/Fit A/SA/	SS/Sys/Type/Thk/Size/F	it
12 000 00 No.	offer Duildin		ontine Oberlatte		Estimator K IT		0-1 1400 4/5	0.11

There is now a new **Other Adds/Subcontracts** section. This section works like **Lump Sum Adds** but is after the **Overhead and Profit** sections and just before the **Grand Total**. There is also a new *button* to spread this cost by **Area**.

MIKE-	20-1-ESTIMA	TING										_									
File I	Edit Option	ns Help ớơ^R	emote Support	Select Da	atabases 🏐	stimates	T Tables Librar	y Estimate Utilities	Library Utiliti	es VTO6 Utilitie	s Backup	🖪 Exp	ort Folder Navigat	ion Conv	ert MIKE 10 Data	1					
	. 🗆 💷 🤊	김 승리 성명 🕪 11		ET 64 Es	1 4 163 8	1111	899										_	_	_	_	_
E	stimates	Sys	tems	Specific	ations	Link	age Ma	anual Takeoff	VTO6 Tak	eoff R	ecalculat	e	Recap		Reports						
0	Recap By Esti	mate							× _ (	🚷 Other Adds											83
		Material	Hours	Code	Insulation	Finish	Labor Cost	Total												-	
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D	uct	0.00	0.00	XX ←	25.00	25.00	0.00	0.00		Amount	Mulitplier	UOM	Markup Descrit	otion		System	Туре	Area	Sub	Sub Sub	^
E	quip	3,656.89	36.28	XX €	25.00	25.00	907.00	4,563.89								orEquip	or#		Area	Area	1
0	ther	415.60 🗲	0.00 🗲	Other - De	efault Rate ->	25.00	0.00	415.60		4000.000	1.00		10.00 Scattol	ding Sub							l
Т	otal	17,982.70	266.50	Change	e all Labor Ra	ites	6,662.50	24,645.20				1									
									Bid E												
									-												
н	rs/Day	8.00 =	34 Day	/s	arial 0.0	0 %	Mark-Ups	Adds													
				Laho	or 0.0	0 % 🗲		2 331 88													
		ALL COSTS FO	UND	Lum	p Sum Adds			0.00													
									-												
				Estin	nated Cost			28,460.65													
- I -	etimate	600.00		Estin	nated Cost pl	us Mark•up	)S	28,460.65													
		000.00		Over	mead I Mar	tup 🗸	10.00 % -	2,846.07													
	iuiu-Layer W	пар		Profi	Rondo Eto	up 🗸	0.000 %	4,696.01	Syst												
- P	iousion			Dia	Donus ElC.		0.000 %	0.00	Ar a/S												
				Cal	Iculate Profit I	Aarkup	Estimate Total	36.002.72	lea/Su												×
	Statistic	s 0	Notes 0	Othe	er Adds/Subc	ontracts	400.00	4,000.00		Adds	4.000.00	Mark-up	400.00	Total	4.400.00		Sp	ead Cost	by Elem	ent 🏛	
	Recap Re	port Profit	Range Report			Est	imate Grand Total	40,402.72	pa/SA/								s	pread Co	st by Are	а	

Lump Sum Adds also has this new *button* to spread this cost by Area.

<table-cell> Lu</table-cell>	ump Sum Ado	is the second										×
									Selec	from Typ	picals	
Γ	Amount	Mulitplier	UOM	Markup	Description		System or Equip	Type or#	Area	Sub Area	Sub SubAr	^
	0.000	1.00		0.00	Dumpster							
	0.000	1.00		0.00	Lift Rental							
	(										>	Ŷ
A	dds	0.00	Mark-u	p	0.00 Total	0.00		Spr	ead Cost	by Elem	ent 🛄	
							-	S	pread Co	st by Are	а	

In the near future we will be adding to the **Other Hours** screen the ability to **Round Up Hours** by **Area**.

## Number 10: Reports tab

All the Reports that have the **Area** and **Sub Area** totaling options now have the new **Sub Sub Area** option.

MIKE-20-1-ESTIMATING								<b>\</b>	
File Edit Options H	elp 🔗 Remote Suppo	rt   Select Databases 🏢	Estimates 👖 Tables	Library Estimate	e Utilities	Library Utilities VTO6	Utilities Backup 🖪 E	xport Folder Navigatio	Convert MIKE 10 Data
Estimates	Systems	Specifications	Linkage	Manual Tak	eoff	VTO6 Takeoff	Recalculate	Recap	Reports
System Summary	Spec Summary	Accessory Sundry	Bill of Materials	Quantity Che	eck S	Summary Detail	Other	Unit Price	Submittal
Bid Element to be Rep Report: OPipe System(s) to be Repo	oorte I C S	elect a Bid Element or lea ict Systems O Equi	ave blank prment	ystems					
-,			From - To Ranges						
Sub Total on Area	⊖Yes ⊚No		€ 99	9999 ←					
Sub Total on Sub Area	⊖Yes ⊚No		← 99	9999 ←					
Sub Total on Sub Sub	Are: Yes  No		€ 99	9999 🗲					
Expanded Equip Rep	ort OYes  No	(Equip Only)							
Sub Total on Thicknes	S Yes No		Pipe		Duct	<b>T</b>			
		(Pipe/Duct Only)	0.000 € 999	9.999 🗲 0	0.000	€ 9999.999 €			
Sub Lotal on Size	O Yes INO	(Pipe/Duct Only)	0.00 € 999	9.99 🗲 0	0.00	€ 99999.99			
Print Total/Unit Labor I	Hrs OHrs Total	Prod Avg based on:							
gor roducari	Prod Avg	Tables     8.00							
	O Unit Hrs	O Estimate 8.00	U Landscap	e 🖲 Portra	ait				
Include Shop Labor	⊖Yes ⊛No	(Pipe Only)	O Printer @	)Screen OFile	e PDF	ОК			
stimate 200.00 Na	ame Office Building		Location Charlotte			Estimator K	JT	Set MAS A/E	CAI

The biggest change though is in how **Unit Prices** are calculated. In **MIKE 10** the **Unit Prices Size/Thickness ranges** and **Calculation** were done in the **Unit Price** *tab* under the **Reports** *tab*.

Estimates stem Summary	Systems Spec Summary	Specifications	Linkage Bill of Materials	Manual Takeoff	VTO6 Takeoff Summary Detail	Recalculate Other	Recap Unit Price	Reports Submittal
, con our	oper outlinary	Accessory cultury	Din of matorialo	addinaty one ok	ounnuly botan	Guidi	Gint field	Gabinital
Copy Cost Calcul From Estimate	and Hours ations Detail Files to	Copy Pipe Details	Copy Du	ct Details				
Included Co	stSelections	Fitting Selections	Estimate Reca	ap Parameters				
Unit Pric	e Reports	Unit Prices and Factors	Unit Pric	e Matrix				
Detail Work	sheet Reports	Add - Deduct	Labor -	Material				
Composite	) Unit Prices	Composite Quantities	Composi	te Report				
Export Unit Pr	ces to CSV File	Pipe     O     Duct	Export U	nit Prices				
			Unit Price	e Manual 🔛				

#### Number 10: Reports tab (continued) Unit Prices

Now when you **Create New Estimate** or create one from **Create from Old** there is a new **Unit Price Estimate** *check box*.

**NOTE: Do Not** use an **Estimate** that you need to save. It is best to **Create from Old** and create an **Estimate** with all the **Systems, Spec, Linkages** and **Bid Recap** information, but **NO Detail Takeoff** records. The **Detail Takeoff** records will be created in the **Linkage** *tab*.

🚱 Modify Estimate Setup			×
Estimate Number	200.20	Lock Estimate from Calculation	Estimate Long Name - Press Ctrl+F to Change Font
Estimate Short Name	Office Building Unit Prices		
Estimate Location	Charlotte	LastPipe Line Number 0 LastDuctLine Number 0 Recet Last	
Estimator	KJT Code 00001	Last Equip Line Number 0	
Estimate Type	сом 🗲	Reduce Pipe Equivalent None ~	
Prod Set	MAS ← MASTER SET	Default Takeoff Software VTO6 ~	
Arch/Engineer	CAI Comput-Ability Inc	Update Detail Lines	Estimate Long Location - Press Ctrl+F to Change Font
Bid Date	01/01/2020    Bid Time 00:00:00	Unit Price Estimate	
	01/01/1901    Estimate Created	Labor Only	
	01/01/1901 <b>C</b> Date 01/01/2000	Material Only	
	01/01/1901    Time 00:00:00	BOM Round Up Cost 🛛 To Recap Other Material	
Project Code	<b>F</b>	Sizes	
Secured/Won		Quantities Imperial O Metric Notes	

In the Linkage *tab* you will set the Pipe Size/Thickness ranges and then create Detail Takeoff records by *clicking* on the Create *button* in the UP Details *column*.

MIKE-2	20-1-	ESTIM	4A11N	G						a e							1000.01								
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Pipe	D	ates			5	ysten	15		Specifications		Linkage	M	ianuai i ai	eon	VI	06 1 21	кеоп	Re	calcula	te	к	ecap			керопз
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						S	гм		Steam		Α	ALL		2.0	0	S	1.0	0	10.00	«					
						S	гм		Steam		А	ALL		2.5	0	s	1.0	0	10.00	«		I			
						S	гм		Steam		Α	ALL		3.5	0	D	1.0	0	10.00	•		1			
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stimate	1	200.2	20	Na	me O	)ffice B	uilding	Unit	Prices	Loc	ation Charlo	tte				E	stimator KJ				Set	MAS	A/E	CAI	

# Number 10: Reports tab (continued) Unit Prices

*Click* on the **Create** *button* in the **UP Details** *column*.

MIKE-20	)-1-E	STIMA'	TING																	
File Ed	it	Option	ns He	lp 6'0' Rem	note Support	t Select Da	tabases	Estimates	Tables I	ibrary	Estimate Util	ties Library	Utilities	VTO6	Utilit	ies Ba	eckup 📑 Ex	port Folder	Navigation	Convert MIKE 10 Data
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Est	imat	tes		Syster	ns	Specific	ations	Linka	ge	Man	ual Takeoff	VTO	Takeo	ff		Recald	ulate	Re	cap	Reports
Pipe	Due	ct																		
Ding							<table-cell> Gene</table-cell>	erate Pipe Detail fo	r UP				×	tric						
Syster	m		Typ	0	Set		Th	ickness	_		Star	End		ine	M	Labor	Temp	LIP		
Code	Ţ	ype	Des	cription	Color		Pi	pe Size	Thickness	Laye	Pipe Size	Size		difier	-	Only	Table	Details		
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								OBoth	⊡Te	es	Bends									
								Charle All		Cs	Count Item	1								
								CHECK AII	ZW	Vs	Count Item	2								
								UnCheck All	□B\	/s	Count Item	3								
Steam						Min Wool /													Disable	
Di	to Fi	ield		Create Line		Delete Line		Click Create B	utton to cr	eate [	Detail Takeo	off Records	-	ude Fr	om (	Calculat	ion		Metric	
							Del	lete Sys/Type L	JP Detail		Create Sys/T	ype UP Deta	lie						Warning	
atimata	20	00.20	No	ma Officia E	Quilding Lle	ait Dringe		Logotion (	horle#e				Ectim	ator V	т			Set		
sunate	20	00.20	INA	olice E	Junuing Or	in Flices		Location	nanode				Lsum					Set	VIAS A/E CA	

The Unit Prices process created 45 Detail Records.

Esti	mates	•	Systems	Sp	ecification	S	Lin	kage		Manual	Takeof	f 🦰	<b>VTO6 T</b>	akeoff	R	ecalcul	ate Rec	ар	Reports
	Pipe		Duct	l .	Assignee	d Equip	oment	Bui	ld Eq	quipment		Sund	ries		Flat W	/ork	Assembl	es	
	Δŀt	Line	floor	2102	System	Type	Pipe	Thick	S	Pine	90s	45e	Tees	UCs.	WVs	•	Oversize Fittings	N	lisc Fittings
			1001	uicu	STM	A	Size	3.50	D	1.00	1	135	1000	005	1	BV	<b>/s</b> 0.00	ECaps	0.00
					STM	A	2.00	3.50	D	1.00	1	1	1		1	FP	<b>s</b> 0.00	Rdcr	0.00
					STM	Α	2.50	3.50	D	1.00	1	1	1		1	FV	/s 0.00		0.00
					STM	А	3.00	3.50	D	1.00	1	1	1		1	St	rs 0.00		0.00
					STM	Α	3.50	3.50	D	1.00	1	1	1		1				0.00
					STM	А	4.00	3.50	D	1.00	1	1	1		1	Be	nds 0.00		0.00
					STM	Α	4.50	3.50	D	1.00	1	1	1		1		Count Items	Labor M	lodifier 0
					STM	А	5.00	3.50	D	1.00	1	1	1		1	N	0.00 NC	Override	PSI
					STM	Α	6.00	3.50	D	1.00	1	1	1		1	N	ON 0.00	Detail C	ode
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### Number 10: Reports tab (continued) Unit Prices

The only change in the **Unit Price Report** *tab* is the *button* that used to read **Generate** now reads **Copy Pipe Details**. After that Unit Price works as it did in MIKE 10.

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