Explore API Documentation

SelfService_Estimate_PayItemCalculatedValue

Version 2.0

Last Modified: 10-Dec-2025

Last Modified By: Litzy Mora

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Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	30-Mar-2022	Initial draft	Natalie Takacs
2.0	10-Dec-2025	Updated refresh data	Litzy Mora

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Overview

The ***SelfService_Estimate_PayItemCalculatedValues*** API is one of multiple APIs comprising the data contained in the Estimate Pay Item entity. A Pay Item is business object commonly representing a Bid Item on an owners Bid Form or a line item on a Schedule of Values and the sum of all Pay Item prices commonly represents the total Bid Amount of an Estimate. In a locked job the Pay Item automatically creates a corresponding Level 1 Cost Item which it is assigned to. In an unlocked job, Pay Items and Cost Items can be created independently of each other and assignments can be made regardless of an items position in the hierarchy.

The Estimate Pay Item entity mainly includes three tables, *SelfService_Estimate_PayItem*, *SelfService_Estimate_PayItemCalculatedValues* and *SelfService_Estimate_PayItemReferencedData*.

The *SelfService_Estimate_PayItem* table contains Pay Items as created and managed within the Estimate application.

The *SelfService_Estimate_PayItemCalculatedValues* table contains Pay Item data commonly calculated in some way for display purposes in the application and can provide a convenient way to reference data as it appears in the application without needing to transform it for display purposes.

The *SelfService_Estimate_PayItemReferencedData* contains the values of the many foreign key lookup values stored in reference tables and can provide a convenient way to reference data as it appears in the application without needing to lookup the foreign key values from a lookup table.

Monetary values stored in the database are stored in their base currency and corresponding values displayed in the application have been modified based on the conversion factor of the items assigned currency.

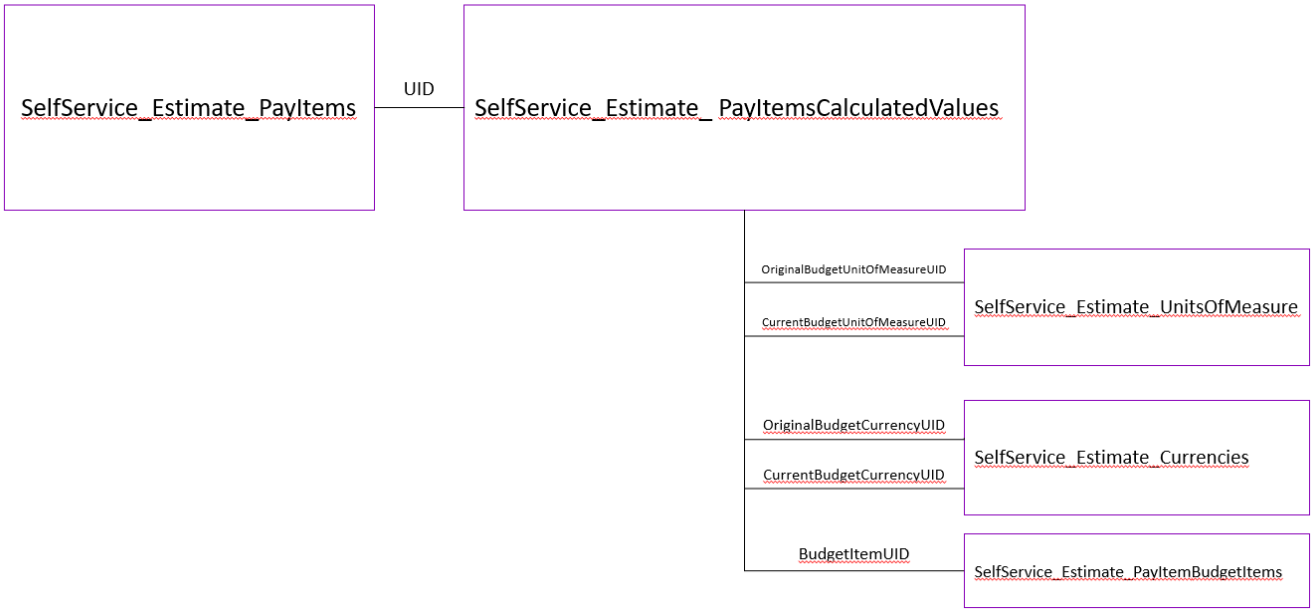
Quantity values stored in the database are stored in their base measurement units and corresponding values displayed in the application are potentially modified based on the conversation factor of the items unit of measure

Relationships and Dependencies

From: Table	To: Table	Relationship	Cardinality[1]
PayItemsCalculatedValues(PICV)	PayItems (PI)	PICV.UID = PI.UID	1:1
PayItemsCalculatedValues(PICV)	UnitsOfMeasure (OBUM)	PICV.OriginalBudgetUnitOfMeasureUID = OBUM.UID	1:M
PayItemsCalculatedValues(PICV)	UnitsOfMeasure (CBUM)	PICV.CurrentBudgetUnitOfMeasureUID = CBUM.UID	1:M
PayItemsCalculatedValues(PICV)	Currencies (OBCUR)	PICV.OriginalBudgetCurrencyUID = OBCUR.UID	1:M
PayItemsCalculatedValues(PICV)	Currencies (CBCUR)	PICV.CurrentBudgetCurrencyUID = CBCUR.UID	1:M
PayItemsCalculatedValues(PICV)	PayItemBudgetItems (PIBI)	PICV.BudgetItemUID = PIBI.UID	1:1

[1] *1:M = One to Many, 1:1 = One to One, M:1 = Many to one*

SelfService_Estimate_PayItemsCalculatedValues



API Detail

Direction		From Project Suite
Pagination		50,000 Rows
Frequency		All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.
Trigger Method(s)		All default OData filters are supported
Average Payload Size		Depends on date range selected
APIM Name		SelfService_Estimate_PayItemCalculatedValue
Data Refresh/Delta/Incremental Loads		
Project Suite	**Starting Version**	21.5
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	Char Max Length	Numeric Precision	Date Precision	Product	PK
EstimatePayItemCalculatedValueId	bigint		19		Estimate	X
EstimatePayItemCalculatedValueUF	uniqueidentifier				Estimate	
EstimatePayItemCalculatedValueUID	uniqueidentifier				Estimate	
AlternateDescription	nvarchar	1000			Estimate	
AssignedDirectUnitCost	float		53		Estimate	
BalancedTotalPrice	float		53		Estimate	
EstimateBudgetItemUID	uniqueidentifier				Estimate	
CurrentBudgetCurrencyUID	uniqueidentifier				Estimate	
CurrentBudgetQuantity	float		53		Estimate	
CurrentBudgetTotalPrice	float		53		Estimate	
CurrentBudgetUnitOfMeasureUID	uniqueidentifier				Estimate	
CurrentPricePercent	float		53		Estimate	
DirectUnitCost	float		53		Estimate	
IndirectCost	float		53		Estimate	
IndirectUnitCost	float		53		Estimate	
IsOverriddenByAlternate	bit				Estimate	
OriginalBudgetCurrencyUID	uniqueidentifier				Estimate	
OriginalBudgetQuantity	float		53		Estimate	
OriginalBudgetTotalPrice	float		53		Estimate	
OriginalBudgetUnitOfMeasureUID	uniqueidentifier				Estimate	
TotalCost	float		53		Estimate	
TotalPriceVariance	float		53		Estimate	
UnassignedDirectUnitCost	float		53		Estimate	
UnassignedEarningsAmount	float		53		Estimate	
UnassignedEarningsPercent	float		53		Estimate	
UnitCost	float		53		Estimate	
UnitPriceVariance	float		53		Estimate	
BidMasterJobUID	uniqueidentifier				Estimate	
LastUpdateID	int		10		Estimate	
IsActive	bit				Estimate	
CreatedById	bigint		19		Estimate	
CreatedDate	datetimeoffset			7	Estimate	
ModifiedById	bigint		19		Estimate	
ModifiedDate	datetimeoffset			7	Estimate	
AssignedBusinessOverheadUnitCost	float		53		Estimate	
AssignedCost	float		53		Estimate	
AssignedJobOverheadUnitCost	float		53		Estimate	

AssignedManHoursDuration	float		53		Estimate	
AssignedManHoursFactored	float		53		Estimate	
AssignedManHoursQuantity	float		53		Estimate	
AssignedManHoursSummary	float		53		Estimate	
AssignedUnitCost	float		53		Estimate	
BalancedMarkup	float		53		Estimate	
BalancedUnitMarkup	float		53		Estimate	
CurrentUnitMarkup	float		53		Estimate	
DirectCost	float		53		Estimate	
IsLeaf	bit				Estimate	
TotalDistribution	float		53		Estimate	
UnassignedBusinessOverheadUnitCost	float		53		Estimate	
UnassignedCost	float		53		Estimate	
UnassignedJobOverheadUnitCost	float		53		Estimate	
UnassignedUnitCost	float		53		Estimate	
UnitDistribution	float		53		Estimate	

Field Descriptions

Name	Description	Example
EstimatePayItemCalculatedValueId	Unique identifier assigned to each record in the table	515714
EstimatePayItemCalculatedValueUF	System generated field, for internal use only	8cfcdeba-d2b0-0568-25b7-546b77ac33e7
EstimatePayItemCalculatedValueUID	Unique identifier for a Pay Item record. Not visible in the interface.	3dea9d6f-976e-43a1-8b1a-c1066ddbdf69
AlternateDescription	Value of the Pay Item's *Alternate Description* column in pay item & proposal register. This value can also be obtained using the pay items [AlternateUID] field in the payitems table and joining to the Alternates table.	BASE
AssignedDirectUnitCost	It is the Unit Assigned Direct Cost (bid qty) for the pay item entries in pay item & proposal.	2.0253389749681036 E-05
BalancedTotalPrice	It is the Total Price (balanced) field for pay item entries in pay item record & proposal register	998799.99999999988
EstimateBudgetItemUID	Identifier of pay items Estimate Budget item	null

CurrentBudgetCurrencyUID	Identifier of the Pay Item records assigned *CB-Currency* value from the Currencies table.	58687bb8-8107-4b88-ae04-f236c3050e58
CurrentBudgetQuantity	Value of Pay Item's CB- Quantity in Pay Item & Proposal Register.	0.0
CurrentBudgetTotalPrice	Value of Pay Item's CB- Total Price in Pay Item & Proposal Register	0.0
CurrentBudgetUnitOfMeasureUID	Identifier of the Pay Items *CB-Unit of Measure* in the UnitsOfMeasure table.	c985403d-620f-4af0-96da-3c2df9edac6c
CurrentPricePercent	% of Total Current Bid Price field value in the Pay Item & Proposal register	16.423389185216308
DirectUnitCost	Direct Unit Cost field value in the Pay Item & Proposal register	2.0257687098544296 E-05
IndirectCost	Indirect Total Cost Distribution field value in the Pay Item & Proposal register	206886.82867011335
IndirectUnitCost	Indirect Unit Cost Distribution field value in the Pay Item & Proposal register	5.7013425344947217 E-06
IsOverriddenByAlternate	Indicates that a pay item is overridden by another pay item. This field is not displayed in the UI	false
OriginalBudgetCurrencyUID	Identifier of the Pay Item records assigned *OB-Currency* value from the Currencies table.	58687bb8-8107-4b88-ae04-f236c3050e58
OriginalBudgetQuantity	Value of the Pay Item's Original Budget Quantity as found in Pay Item & Proposal Register and Pay Item record	0.0
OriginalBudgetTotalPrice	Value of the Pay Item's OB- Total Price as found in Pay Item & Proposal Register	0.0
OriginalBudgetUnitOfMeasureUID	Identifier of the Pay Items *OB-Unit of Measure* in the UnitsOfMeasure table.	c985403d-620f-4af0-96da-3c2df9edac6c
TotalCost	It is the Total Cost field value for pay item entries in pay item record and pay item & proposal register, which includes both Assigned and Unassigned Cost and does not include Markup	941985.38039758441
TotalPriceVariance	It is the value of Total Price Variance (current-balanced) for pay item entries in pay item & proposal register	0.0
UnassignedDirectUnitCost	It is the Unassigned Direct Unit Cost Distribution field value for the pay item entries in pay item & proposal register The field in the UI is called '	4.2973488632586041 E-09
UnassignedEarningsAmount	Unassigned Earnings (Forecast) Amount field value found on the Earning Rules tab of the Pay Item record	0.0
UnassignedEarningsPercent	Unassigned Earnings (Forecast) % field value found on the Earning Rules tab of the Pay Item record	0.0

UnitCost	It is the Unit Cost field value for pay item entries in pay item record and pay item & proposal register	2.5959029633039017E-05
UnitPriceVariance	It is the value of Unit Price Variance (current-balanced) for pay item entries in pay item & proposal register	0.0
BidMasterJobUID	Identifier of the Job record from the Jobs table in the BidMaster database. This field is not unique in this table but is unique to an instance of a Job. Not visible in the interface.	b11643d5-45de-46c9-aead-956d1a77ec8e
LastUpdateID	Field for internal use only	38
IsActive	Indicates if record is active. Please note: records will become inactive if a user un-syncs a job from Estimate application	true
CreatedById	System generated Id, will always represent the system, not actual users. This field is for internal use only.	1
CreatedDate	Date/timestamp record is entered	2023-05-27T01:33:08.0330475Z
ModifiedById	System generated Id, will always represent the system, not actual users. This field is for internal use only.	1
ModifiedDate	Date/timestamp record is modified	2023-05-27T01:33:08.0330475Z
AssignedBusinessOverheadUnitCost	Assigned Business Overhead Unit Cost value in the Item Recap datablock on the Pay Item & Proposal register	1.3217877241536372E-08
AssignedCost	Assigned Total Cost value in the Item Recap datablock on the Pay Item & Proposal register. This value is the sum of all assigned Direct Costs, Job Overhead and Business Overhead costs	847061.40749583545
AssignedJobOverheadUnitCost	Assigned Job Overhead Unit Cost value in the Item Recap datablock on the Pay Item & Proposal register	3.0765276655882991E-06
AssignedManHoursDuration	Man-Hours (Duration driven) field value for pay item entries in pay item record and pay item & proposal register	4560.0
AssignedManHoursFactored	Factored Man-Hours field value for pay item entries in pay item record and pay item & proposal register	4848.0
AssignedManHoursQuantity	Man-Hours (Non-Duration driven) field value for pay item entries in pay item record and pay item & proposal register	0.0

AssignedManHoursSummary	Man-Hours (Total) field value for pay item entries in pay item record and pay item & proposal register	4848.0
AssignedUnitCost	Assigned Unit Cost value in the Item Recap datablock on the Pay Item & Proposal register. This value is the sum of all assigned Direct Costs, Job Overhead and Business Overhead costs	2.3343135292510871 E-05
BalancedMarkup	Total Markup (balanced) field value for pay item entries in pay item record and pay item & proposal register	56965.892039395439
BalancedUnitMarkup	Unit Markup (balanced) field value for pay item entries in pay item record and pay item & proposal register	1.5698537475167801 E-06
CurrentUnitMarkup	Unit Markup (current) field value for pay item entries in pay item record and pay item & proposal register	1.5656850143751178 E-06
DirectCost	Direct Total Cost field value for pay item entries in pay item record and pay item & proposal register. This value includes both Assigned and Unassigned Direct Costs	735098.55172747106
IsLeaf	Indicates if the Pay Item is a terminal item. Terminal items are the items whose price contributes to the total price of the estimate. Non-terminal items are commonly superior Pay Items and rolling up prices of the subordinate items, but do not contribute their prices to the total price of the estimate. Not directly visible in the application.	true
TotalDistribution	Total Distribution field value for pay item entries in pay item record and pay item & proposal register, which is the Pay Items share of the proportional distribution of all unassigned costs in the estimate	151889.86494114436
UnassignedBusinessOverheadUnitCost	Business Overhead Unit Cost Distribution field value for pay item entries in pay item record and pay item & proposal register and the Unassigned Business Overhead Unit Cost value in the Item Recap datablock on the Pay Item & Proposal register	1.3681836042731382 E-06
UnassignedCost	Unassigned Total Cost field value for pay item entries in pay item record and pay item & proposal register	94923.97290174893
UnassignedJobOverheadUnitCost	Job Overhead Unit Cost Distribution field value for pay item entries in pay item record and pay item & proposal register and the Unassigned Job Overhead Unit Cost value in the Item	1.2434133873917483 E-06

	Recap datablock on the Pay Item & Proposal register	
UnassignedUnitCost	Unassigned Unit Cost field value for pay item entries in pay item record and pay item & proposal register and the Unassigned Unit Cost value in the Item Recap datablock on the Pay Item & Proposal register. This value is the sum of all Unassigned Direct Costs, Job Overhead and Business Overhead costs	2.6158943405281454 E-06
UnitDistribution	Unit Distribution field value for pay item entries in pay item record and pay item & proposal register, which is the Pay Items share of the proportional distribution of all unassigned costs in the estimate	4.1857480880449253 E-06

Sample


```
{
    "EstimatePayItemCalculatedValueId": 515714,
    "EstimatePayItemCalculatedValueUF": "8cfcdeba-d2b0-0568-25b7-546b77ac33e7",
    "EstimatePayItemCalculatedValueUID": "3dea9d6f-976e-43a1-8b1a-c1066ddbdf69",
    "AlternateDescription": "BASE",
    "AssignedDirectUnitCost": 2.0253389749681036E-05,
    "BalancedTotalPrice": 998799.99999999988,
    "EstimateBudgetItemUID": null,
    "CurrentBudgetCurrencyUID": "58687bb8-8107-4b88-ae04-f236c3050e58",
    "CurrentBudgetQuantity": 0.0,
    "CurrentBudgetTotalPrice": 0.0,
    "CurrentBudgetUnitOfMeasureUID": "c985403d-620f-4af0-96da-3c2df9edac6c",
    "CurrentPricePercent": 16.423389185216308,
    "DirectUnitCost": 2.0257687098544296E-05,
    "IndirectCost": 206886.82867011335,
    "IndirectUnitCost": 5.7013425344947217E-06,
    "IsOverriddenByAlternate": false,
    "OriginalBudgetCurrencyUID": "58687bb8-8107-4b88-ae04-f236c3050e58",
    "OriginalBudgetQuantity": 0.0,
    "OriginalBudgetTotalPrice": 0.0,
    "OriginalBudgetUnitOfMeasureUID": "c985403d-620f-4af0-96da-3c2df9edac6c",
    "TotalCost": 941985.38039758441,
    "TotalPriceVariance": 0.0,
    "UnassignedDirectUnitCost": 4.2973488632586041E-09,
    "UnassignedEarningsAmount": 0.0,
    "UnassignedEarningsPercent": 0.0,
    "UnitCost": 2.5959029633039017E-05,
    "UnitPriceVariance": 0.0,
    "BidMasterJobUID": "b11643d5-45de-46c9-aead-956d1a77ec8e",
    "LastUpdateID": 38,
    "IsActive": true,
    "CreatedById": 1,
```

```
    "CreatedDate": "2023-05-27T01:33:08.0330475Z",
    "ModifiedById": 1,
    "ModifiedDate": "2023-05-27T01:33:08.0330475Z",
    "AssignedBusinessOverheadUnitCost": 1.3217877241536372E-08,
    "AssignedCost": 847061.40749583545,
    "AssignedJobOverheadUnitCost": 3.0765276655882991E-06,
    "AssignedManHoursDuration": 4560.0,
    "AssignedManHoursFactored": 4848.0,
    "AssignedManHoursQuantity": 0.0,
    "AssignedManHoursSummary": 4848.0,
    "AssignedUnitCost": 2.3343135292510871E-05,
    "BalancedMarkup": 56965.892039395439,
    "BalancedUnitMarkup": 1.5698537475167801E-06,
    "CurrentUnitMarkup": 1.5656850143751178E-06,
    "DirectCost": 735098.55172747106,
    "IsLeaf": true,
    "TotalDistribution": 151889.86494114436,
    "UnassignedBusinessOverheadUnitCost": 1.3681836042731382E-06,
    "UnassignedCost": 94923.97290174893,
    "UnassignedJobOverheadUnitCost": 1.2434133873917483E-06,
    "UnassignedUnitCost": 2.6158943405281454E-06,
    "UnitDistribution": 4.1857480880449253E-06
}
```


Data Validation

This data can be validated by viewing Pay Items in Pay Item & Proposal Register or opening a Pay Item record from Pay Item & Proposal Register

Figure 1: Pay Items in Pay Item & Proposal Register

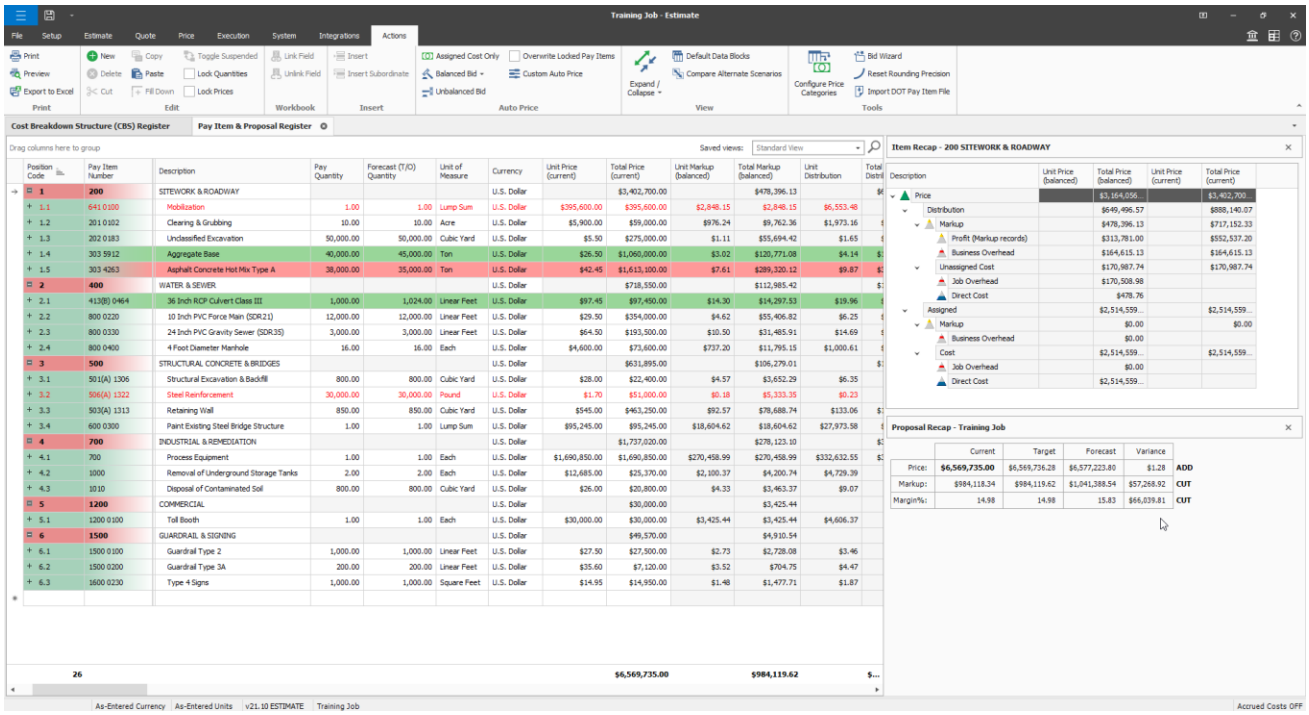
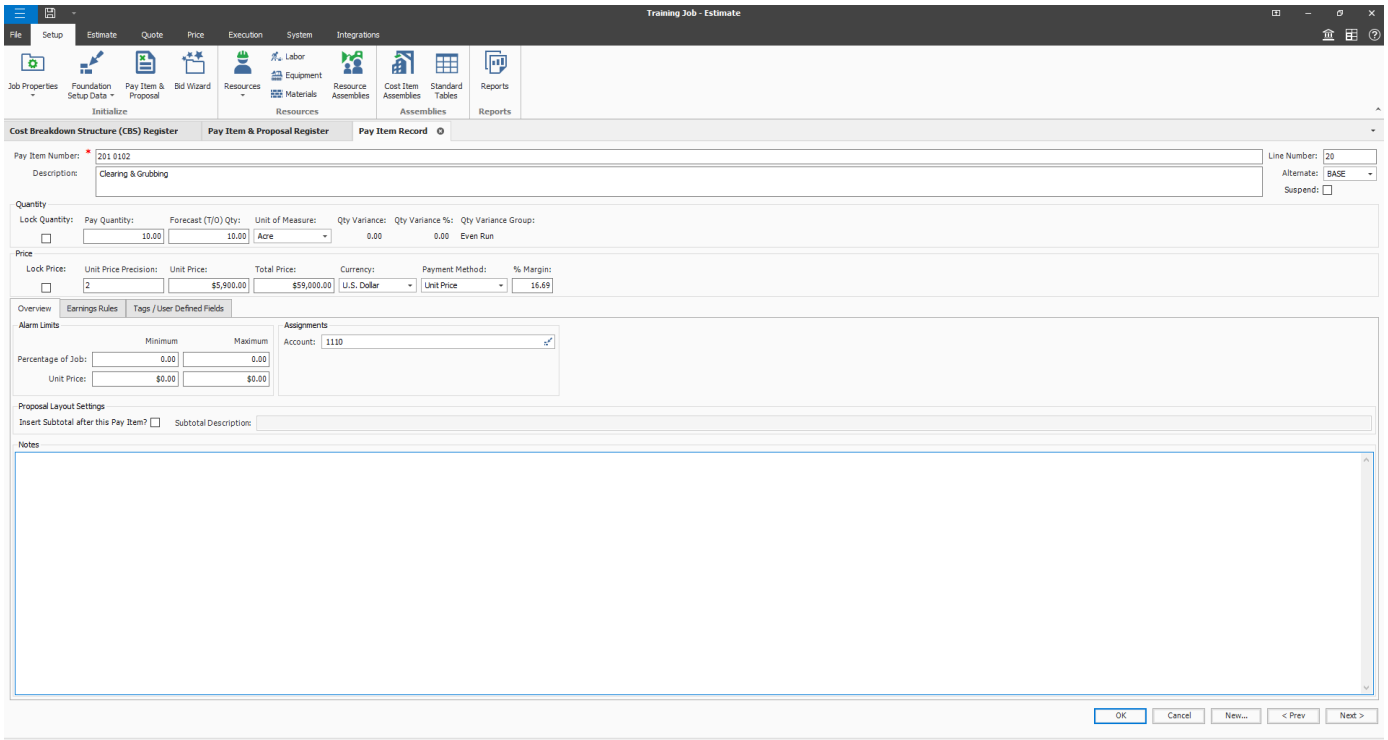



Figure 2: Pay Item Record