DATA COLLECTION MANUAL – Commercial Properties

Commercial Properties

The data collection phase of a mass appraisal program consists of the collecting and recording of specific property data needed to process each parcel of property into an indication of value. Property characteristics data should be continually updated in response to changes brought about by new construction, new parcels, remodeling, demolition and destruction. The following procedures and specifications have been developed to promote both individual proficiency and standardization by providing the data collector with certain guidelines to follow in performing their duties. Data collection must be done in a consistent manner, meaning that it is done the same way every time and that everyone does it the same way. Doing something in a consistent manner significantly reduces the chance of forgetting to do it or doing it incorrectly.

Accuracy, thoroughness, and neatness are essential in recording data. Office computations and other operations depend upon this data, all of which is used to determine the market value of a property which is the basis for the amount of taxes each owner must pay. The standards and procedures incorporated in the manual cannot be depended upon alone for the establishment of sound and fair values on individual properties. Basically, reliance must be placed on the accuracy and thoroughness of field inspections and the recorded data on each parcel by appraisal personnel in the field. Unless the record is neat, clear, and accurate, it cannot be interpreted correctly and readily by others.

The appraisal procedure for determining values of improvements consists of(1) initiating the appraisal; (2) recording construction information; (3) classifying buildings; (4) recording, classifying, and valuing additional details; (5) determining depreciation adjustments; (6) measuring and sketching structures; (7) appraising special structures; (8) appraising incomplete structures; and (9) determining property values.

The primary tools used for maintaining property characteristics or data collection and maintenance are BPS worksheets and periodic property re-inspections.

The Commercial department is responsible for appraising the following types of improvements:

Structure code	<u>Use type</u>
13	Apartment
14	Condominium
20	Retail
21	Service Station
22	Public Garage
23	Office
24	Bank
25	Theater
26	Office Tower
27	Hotel
28	Warehouse
29	Factory
30	Motel
31	Restaurant
32	Fast Food
33	Convenience Store

1. Initiating the Appraisal

Prior to the actual recording of specific information and the determination of specific classes and values, four preliminary steps are performed in initiating the appraisal: identifying the parcel; observing the improvements generally; gaining entry; and obtaining information from the occupant.

The parcel of land, on which the improvements to be appraised are located, is first checked in order to make sure that the parcel identification number and legal description on the account correspond to those on the map, and that the property is the correct parcel. The appraiser also observes both side and rear property lines and approximates the size of the parcel to be sure that only improvements belonging on a specific parcel are included in the appraisal. In the case of some commercial or industrial buildings, it is also necessary to determine if the improvements and land belong to the same owner; and, if they do not, respective ownerships are determined and a separate account labeled "Improvements Only" is used for recording the building data.

The second step of the preliminary appraisal is observation of the building to gain a general perspective of its appearance, condition, and approximate classification. In addition to observing the building itself, the entire neighborhood is also observed and its general appearance is considered in determining environmental influence which may affect the amount of depreciation to allow a specific property.

A physical inspection is necessary to obtain initial property characteristics data. This inspection can be performed by either appraisers or specially trained data collectors. Any employee engaged in any type of field work activities or on-site inspections will wear their MCAD identification badge so that it is easily visible by the general public. Also appraisers registered with the Texas Department of Licensing and Regulation must have their identification card in the registrant's possession while on official duty.

The parts of buildings which cannot be observed from the exterior frequently contribute considerably to the value of a specific structure. In most appraisals, therefore, it is vitally important that the appraiser gain entry to the building in order to obtain descriptive information of interiors. For commercial or industrial buildings, the appraiser enters through the front entrance and asks for the owner, manager, or someone qualified to answer questions pertaining to the building. The appraiser should identify themselves in a courteous and professional manner and hand the person their business card. State the nature of their visit to the property explaining the necessity of the task being performed. If no one is qualified to provide information, the appraiser notes this on the BPS worksheet or appraisal card and revisits the property later. In some cases it may be necessary to make an appointment with the owner before the appraisal can be made.

Employees engaged in field work should take special care in the performance of their duties in order to maintain their personal safety and security. If the appraiser is refused admittance to a property or they are asked to leave, they should leave the premises immediately. Never argue with anyone. Once you are off the property the appraisal is made as accurately as possible from the exterior and a notation made on the worksheet or card that admittance was refused. Please refer to Section 5: General Guidelines of the MCAD Personnel Policy and Procedures for further employee conduct guidelines especially: sections 5.1.2 Fieldwork Safety Procedures, 5.3 Entering Occupied Property and 5.3.1 Dealing With Vicious Animals.

The final step in initiating the appraisal is obtaining information from the occupant. Most of the data required for the appraisal of a building are determined by inspection and observation; but some information is more easily obtained by questioning the occupant. Data such as the year of construction, when additions were made, use of accessory buildings, extent of used materials, and any other information pertinent to the appraisal process are normally obtained by questioning the owner or someone responsible for the building.

2. Recording Construction Information

Data for all improvements is recorded on either the Commercial BPS worksheet or appraisal card. This is done in the field by appraisal personnel from firsthand observation. One worksheet or appraisal card is made for each separate parcel of land and the improvement thereon except when there are improvements that are owned by someone other than the owner of the land.

Most improved accounts have an improvement segment for the building and a separate segment for yard improvements which is labeled as 'Site Imps' in the 'Improvement description' line of the improvement segment. Yard improvements or site imps typically include paving, light stands and fencing. Some commercial properties such as office campuses, industrial complexes and apartment complexes have multiple buildings and will have an improvement segment for each building.

Please refer to the BPS Worksheet Procedures for Commercial Properties for instructions on how to complete the BPS worksheet and to the Data Review Procedures-Periodic Property Re-Inspections for Commercial Properties for instructions on verifying and relisting to current appraisal standards a specific group of properties.

3. Classifying Buildings

Buildings or main structures are classified by designating their class according to their basic structure exclusive of additional details. Most buildings can be classified in accordance with the classification system set forth in the Commercial Classing manual. A few structures exist for which no classification is provided. They are to be appraised as special structures as discussed later in this chapter under the heading 'Appraising Special Structures'.

Determining the classification of buildings is divided into three separate steps: (1) determining use type; (2) determining construction type; and (3) determining quality of construction.

Use Type

Classification according to use type is determined by observation and generally is evident by the appearance or actual use of the structure. Since cost factors depend as much on use types as on construction classes, it is extremely important that this item be listed correctly. Commercial use

types are more varied, but the principal thing to keep in mind is that the use type generally means the use for which the building was originally constructed or for which it was completely remodeled or renovated. Use type is recorded using a two digit numeric code (see table on page 2).

Construction Type

Classification according to construction type necessitates ascertaining the material used in the structural frame of the exterior walls. Construction type is generally recognized from observation or by inspection of the exterior walls. The four fundamental types of building construction are wood frame, masonry wall, reinforced concrete frame and steel frame.

Wood frame construction known as class W consists of exterior bearing walls either single wall construction of wood boxing or framed with wood studding and covered with wood siding, asbestos siding, stucco or plaster, metal, composition siding, or masonry veneer. To distinguish between different outside wall coverings, wood frame construction type is further divided into four types, which are designated as:

WA – Wood frame with asbestos or vinyl siding

WP – Wood frame with plaster, stucco or EIFS exterior

WV – Wood frame with brick or stone veneer or hardi-plank exterior

WW – Wood frame with wood or masonite siding

WM – Wood frame with metal covering

Masonry wall construction or class M has exterior bearing walls of masonry units such as brick, stone, tile, or concrete block.

Reinforced concrete construction or class C has exterior walls of solid reinforced concrete or wall framing of reinforced concrete columns and beams with curtain walls of masonry units, steel panels, or reinforced concrete slabs. Class C includes concrete tilt wall.

Steel frame construction or class S has exterior wall framing of structural steel with curtain walls of masonry units, steel panels, or reinforced concrete slabs.

The construction type is recorded for all property by entering the construction type designation letters.

Quality of Construction

Classification according to quality of construction consists of assigning the appropriate numerical portion of the class in accordance with the classification system. The assignment of the quality designating number is achieved by relating

the structure being appraised to the typical building in the manual which it most closely resembles as to its specifications. Having selected the quality designating number by comparison, the appraiser next decides if the quality is equal to, slightly better than, or slightly less than that of the typical building; and, if the quality is better or less, the appraiser assigns a "+" (plus) or "-" (minus) to the classification. This step of the classification of buildings requires that the appraisers exercise considerable care and sound judgment in assigning classes to buildings. It is difficult to provide rules or guides for determining the classification according to quality so that appraisers must rely upon their judgment and opinion based on experience.

Most buildings have only one classification; but in some instances one building will include more than one use type, construction type, and/or quality of construction. In cases where a building has more than one classification, all appropriate classes are to be determined and recorded.

The classification for buildings is always recorded using the proper designation of numbers and letters. A two digit numeric code for use type, then the one or two digit alpha code for construction type followed by a one digit numeric code, which may have a '+' or '-', for quality.

4. Recording Additional Details

Additional details comprise those parts of improvements which generally vary from one structure to another and therefore, it is important that all additional details be determined and recorded accurately. Most typical commercial properties have the following items: heating, cooling or heating and cooling (HVAC), plumbing and canopies. (Apartments and condominiums will have porches and may have garages and carports or canopies.) Examples of other additional details or components that complement or complete the main structure for its intended use are cold storage, docks, elevators, finished areas, sprinklers, swimming pools and spas.

Heating- Cooling- Heating and Cooling (HVAC)

All types of installations for heating, cooling and HVAC that are permanently attached to the improvements are considered to be real property. Space heaters which are attached to the improvements by hose, cord, or temporary piping are disregarded because they are considered to be personal property. Likewise evaporative coolers, with or without limited duct work, are considered personal property.

The kinds of heating units generally found in buildings consist of floor furnaces, single wall furnaces, suspended ceiling furnaces, and central heating plants.

Appraisers determine the type and size of the heating unit in thousands of BTU's and enter it accordingly.

Room air conditioners installed in windows or walls are listed as freestanding heat pump units. Appraisers determine the size of the cooling unit in tons.

Permanently installed combination heating and cooling units are referred to as 'Heating and Cooling' or HVAC in this manual. Central plants for small commercial or central plants for multistory commercial are the only kind normally found in commercial buildings. Appraisers determine the size of the cooling unit in tons.

Plumbing

All plumbing for each building is appraised by recording the number of like fixtures designated in accordance with their quality. Fixtures are graded in quality as inferior, average or superior. The quality is determined by the appraiser after making a careful inspection of each fixture.

Canopies

Canopies are classed according to being attached or detached to a structure and if they have a slab foundation. Gas or service station and Bank drive thru canopies have their own separate classification. Canopies, except for gas or service station, are assigned a quality adjustment from low to excellent. The quality is determined by the appraiser after making a careful inspection of each canopy. Gas canopies do not have a quality adjustment because it is included in their class.

Porch - Garage - Carport (Apartments - Condominiums only)

Porches are classified according to openness or enclosure. The classification entered for each porch, therefore, consists of the letter or letters designating open, closed unfinished, or closed finished. 'O' is for open without walls or windows and may or may not have supporting columns or posts. 'CU' is for closed unfinished with walls and windows; exterior wall finished, exposed interior walls and ceiling. 'CF' is for closed finished with walls and windows; exterior walls, interior walls, and ceilings finished. Porches are assumed to be of the same quality as the structure they are attached to and are valued as a percentage of the main structure value.

Garages and carports are appraised by recording the class of each in accordance with the classification system. Garages are classified according to whether they are attached or detached from the main structure. Like porches, they are assumed to be of the same quality as the structure they are attached to and are valued as a percentage of the main structure value. See the Residential and Duplex Class Codes and Additive Codes reference sheet for type, method and class listing guidelines.

Other Additional Details

Parts of buildings or accessory items which generally vary from one structure to another are carried as other additional details. They complement or complete the main structure for its intended use. The wide variety of items that make up the other additional details are listed on the Other / Additional Detail Codes – Commercial Valuation reference sheet. They are schedule driven cost items which are entered using a three digit numeric code for Type and an alpha/numeric code for Class.

Unique items that are not specifically listed on the Other / Additional Detail Codes – Commercial Valuation reference sheet are listed using the Type code '443' and Class code 'MS1' or 'MS100K' for *miscellaneous* items that depreciate at the same rate as the main structure. Type code '819' and Class code 'SU1' or 'SU100K' or for *special unit* items that depreciate at a fixed rate. Costs for '443' and '819' codes are entered from Marshal and Swift. The appraiser states in the comment section of the improvement detail what the item is and the section, page and date (i.e. MS 17/14 Sep *12*) in Marshal and Swift the cost estimate is found.

Site, Yard or Ancillary Improvements

Many properties include paved driveways, parking areas, secondary or out buildings, fencing, exterior (light standards) lighting, railroad spurs, outbuildings for water supply or tanks. An outlined manner describing proper technique to list and capture these improvements is shown on the "Cost and Index Guide to – Other / Additional Detail Codes -- Commercial Valuation", the "Commercial Additional Detail Codes" sheets found in the Commercial/Industrial Cost Manual, the Data Collection Manual and in the addenda of this report (see Other Additional Details section above).

5. Determining Depreciation Adjustments

Determination of proper depreciation adjustments for improvements requires that the appraiser exercise extreme care in determining all factual information upon which opinion and judgment is based. Depreciation is experienced by all buildings but not at equal rates. Most buildings experience only depreciation which is considered normal and can readily be measured, while others may experience depreciation in excess of that which is considered normal and can be measured only by careful consideration of all factors involved.

The procedure for determining and recording data utilized in depreciation of improvements is discussed under seven of the ten items in which appraisal personnel are involved, namely: year of appraisal, year of construction, effective year of construction, life expectancy, physical condition, functional obsolescence, and economic obsolescence.

Year of Appraisal

Appraisers record in the space opposite 'Last Appraisal Year' the year for which the appraisal becomes effective.

Year of Construction

The actual year the building was originally constructed is recorded in the space opposite 'Actual Year Built'. When the actual year of construction cannot be determined, however, an estimate of that year is made by the appraiser. In making this determination, the appraiser must take all factors into consideration, including trends of the neighborhood, kinds of materials used, opinions and judgments of informed persons, and any public records available to them. Also add the note 'EYB' for estimated year built to the improvement comment area.

Effective Year of Construction

The effective year of construction matches the year of construction, if the building is relatively new has experienced no material changes or extensive remodeling since the date of construction. Due to proven ability to survive older structures may have effective year ratings less than their actual age, even without significant updates.

If the building has experienced sufficient changes due to remodeling, alterations, additions or renovations then the appraiser enters in the space opposite 'Effective Year Built' the year which, in their opinion, represents the year from which normal depreciation should be computed due to these changes to the structure.

Life Expectancy

The life expectancy of buildings is normally selected from schedules based on improvement type and class (life expectancy tables can be found in the Cost Manual).

Physical Condition

Physical condition is for the purpose of recognizing deterioration of buildings in excess of that which is considered normal and is included in the normal rate of depreciation. Physical condition is caused generally by inadequate maintenance, defective or improper materials, and/or faulty construction. Adjustments for additional depreciation due to the above causes are determined and recorded by the appraiser in the space opposite 'Physical' and usually in increments of 5%, 10%, or 15%. The appraiser should use all information and data at their disposal to determine the proper adjustment and a note or comment is entered detailing what the adjustment is for i.e. cracked slab followed by the date and appraiser's initials.

Functional Obsolescence

Loss in value due to deficiency of design, lack of utility, or other causes inherent within a structure itself that causes it to be worth less than similar buildings without these characteristics is termed functional obsolescence. It is incorporated in the normal rate of depreciation; and only when the appraiser believes the effect to be in excess of the normal does he record it in the space opposite 'Functional', usually in increments of 5%, 10%, or 15%. Again, the appraiser should utilize all information at their disposal in determining the amount of additional functional obsolescence to be allowed and a note or comment is entered detailing what the adjustment is for, followed by the date and appraiser's initials.

Economic Obsolescence

Loss in value due to causes other than those within the building itself—such as inappropriate location, change in use demands of the property, and other causes related to site rather than the building itself—is termed economic obsolescence. The appraiser again records in the space opposite 'Economic' depreciation adjustments usually in increments of 5%, 10%, or 15%, using whatever data are available to determine the proper adjustment and a note or comment is entered detailing what the adjustment is for, followed by the date and appraiser's initials.

6. Measuring and Diagramming

Space is provided on the worksheet or appraisal card to make a diagram of each structure being appraised. Only the perimeter walls of buildings are indicated on the diagram unless an interior wall represents a change in use type, construction type, quality, or floor level. In addition to the diagram of the building, the appraiser records in the provided space the appropriate shape. The shape of a main structure is determined in accordance with the shape of the floor area only exclusive of canopies, porches, garages, carports, storages, and other additional details. For commercial property the actual ceiling height is recorded by the appraisers in the appropriate space.

The building should be measured starting from the front left corner and proceeding counter clockwise around the building, recording each dimension to the nearest foot on the BPS worksheet or legal tablet. If obstructions prevent measuring directly on the building, the appraiser retreats to an unobstructed path and measures by sighting to the corners of the wall being measured. The diagram will be transferred later from the BPS worksheet or appraisal card to the sketch area on the computer. Please refer to BPS Worksheet Procedures for Commercial Properties for instructions on how to complete a BPS worksheet. Occasionally, the sketches or diagrams and/or site plans of unique, complex or projects with numerous or multiple identical structures may be placed in folders ('CF' folders) for referencing and illustration in lieu of being computer sketched.

7. Appraising Special Structures

The classification system is designed to embrace most structures. Some buildings, however, are either too complex in design or too specialized in use to be classified. The appraiser should not attempt to fit such buildings into a

classification, but he should appraise the structures individually using all pertinent value data obtainable. This type of appraisal is called a 'special appraisal' and is indicated by entering the class as Institutional.

The worksheet or appraisal card is marked in the same manner as a classified structure with the following exceptions:

- 1. 'C-Institutional' is written in the description line of the improvement segment.
- 2. 'Inst' is written in the classification blank.
- 3. The life expectancy is determined by the schedule.
- 4. The appraiser adjusts the first floor unit price and any additional floor unit prices using the 'Add Factor' percentage override.
- 5. Heating and cooling is entered as a feature using the appropriate feature code, not as an additional detail.
- 6. Plumbing, Electrical and Interior Finish are entered as features using the appropriate feature code.

There are three methods of determining the value of a structure requiring a special appraisal: (1) historical; (2) comparison; and (3) construction costs.

The historical method consists of compiling and analyzing all data regarding actual costs of the building. This data includes such documents as: (1) contracts; (2) building permits; and (3) both published and unpublished contract reports.

The comparison method involves comparing the subject building with other buildings of like construction and use type having established cost factors or values to determine comparable unit cost factors for the subject structure.

The construction cost method is employed only when no historical data are available and when no buildings of comparable construction or use type exist. This method involves using the Marshal and Swift cost guide. It is usually desirable that special appraisals be made by two or more appraisers working together.

8. Appraising Incomplete Structures

Inasmuch as property is subject to taxation on that which exists on January 1st, all property for which building permits have been issued during the year and have not been appraised as completed structures are visited by the appraisers to determine the percentage of completion during the last week or so of the year.

For convenience in establishing the percent of completion of buildings under construction, a schedule of percentages representing various construction stages is provided below:

IMPROVEMENT PERCENTAGE GUIDELINES
10-30% FOUNDATION
All work from beginning up to, but not including,
The raising of exterior walls.
30-40% OPEN FRAME
All framing work in the exterior walls, ceilings,
Roofs, and interior bearing walls.
40-50% BOXED
All roof and exterior wall coverings and a primer
coat of paint if required.
50-60% WEATHER-PROOF
All openings and primer coat of paint if required.
60-70% INTERIOR WALL
Raising interior nonbearing walls and the interior
Wall and ceiling coverings.
70-80% TRIM
All millwork and cabinet work.
80-90% PAINT
All painting, sanding, and finishing.
90-100% FINISH
All clean-up, hardware, and floor finish.

The appraiser records on the building permit or the appraisal card the percent of completion for all buildings visited during this period. If the building is less than 100% complete, a note to inspect the property for the next year is recorded in the building permit. The property will be appraised as a completed structure later in the calendar year, but the percentage of completion as of January 1st is used to determine the partial value of the improvements for that tax year. If the building is not yet completed when the appraiser revisits the property, a flat value based on the percentage of completion as of January 1st is determined as the improvement value for that year.

In an effort to streamline the appraising of incomplete properties, MCAD has developed Summary Reports. They are typically used by both departments in December and January to track the improvement's percent complete of construction and the permit's completeness as of January 1st, when detailed appraisal record inventory and listing is not practical due to time constraints. They are stand alone reports and do not need appraisal cards attached to them. For instructions on how to use BPS Summary Report please refer to the BPS Worksheet Procedures for Commercial Properties.

9. Determining Property Values

Upon completion of the listing process, the BPS worksheet or appraisal card is forwarded to a clerk for data entry. The process of appraising land and buildings separately, although necessary for appraisal purposes, is not a complete appraisal process within itself. It is necessary, therefore, that appraisers review the total value of the property to determine the accuracy of the two appraisal processes. If, in the opinion of the appraiser, the total property value is acceptable, the appraisal becomes final and the values are processed onto the appraisal records. If, however, the total value is not acceptable the appraisal is rechecked to determine what, if any, adjustments are necessary.

The Addenda contains Commercial and Residential Reference sheets used in data collection.

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General Real Property Quality Classification Cross Index

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	1909 NCN-LAKEVIEW RIDGEWOOD		351			910	SAND PIT (LUC ONLY)
	101 REGIDENTIAL I FAMILY		352			522	WETLANDS (LUC ONLY)
	102 REGIDENTIAL 2 FAMILY		363	OPPICE BLDGS, LOW-RISE 1-4 STORIES	Spenger.	100	SOUD WASTE DISPOSAL (LUC DNLY)
	102 RESIDENTIAL 3 FAMILY		284	OFFICE BLDGG, HIGH-RISE S+ STORIES	1868	640	HAZAMDOUS WASTE STORAGE SITE
	104 RESIDENTIAL 4 FAMILY OR MORE		285	OPPICE CONDOMINIUMS		541	HAZAMOOLIS WASTEDEDONTAM SITE
	105 MIXED RESIDICIONN (RES. STRUCT)		366	RETAIL CONDOMINIUM	1	549	PRINATE STREETS (LUC ONLY)
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	109 AUXILIARY IMP (LAND USE ONLY)		363	LEGITIMATE THEATER (LIVE PERF, ART 8)		600	VACANT EXEMPT LAND
	110 UNBOUND RESISTAUC (LAND USE ONLY)		384	MOTION PICTURE (WIDE SCREEN)		.606	Constay
	129 LISE WOANT TRACTS WUNK POTENTIAL		365	CINEMATHEATER (MULTI-ROREEN)		610	RECREATIONHEALTH
	124 AURIC/HORT/FOREST VACANT LAND		300	RADIO, TV, OR MOTION PICTURE STUDIO	10000	811	LIBRARY
	125 ACRIC HORT POREST WOWELLING		367	SOCIAL/FRATERNAL HALL		817	SCHOOL
	126 AGRIC HORT POREST WALKE BLDG		368	HANGER			COLLEGES & UNIVERSITIES
	199 RESIDENTIAL NEW DONSTRUCTION		309	DAY CARE CENTER	Instational		POST OFFICE (LUC DNLY)
_	200 APARTMENT VACANT LAND SMULTIFAMILY)		970	GREENHOUSE/FLORIST	100000000000000000000000000000000000000		
					Exempl	620	
	201 RESIDENTIAL STRUC ON APT VALUE LAND	Gen	374	DOWNTOWN BOW		430	
	209 AFT STRUCTURE 4-29 UNITS	Comm	975	RETAIL SINGLE OCCUPANCY		540	HOSPITALS
pts	211 Apartment Garden (4 Story or Leut)	12	374	RETAIL MULTI-OCCUPANCY		660	POLICE OR FIRE STATION
	212 AFARTMENT HARISE		475	RETAIL MISCELLANEOUS USE	000	670	CORRECTIONAL
	213 MODILE HOME PARK		876	DRUGSTORE PREESTANDING		680	DULTURAL FACILITY
	214 RV PARK		377	BOAT & BY STORAGE		655	MISCELLANEOUS GOVERNMENT BLDG
	221 APT SUBSIDIZED HOUSING (SEC 8)		381	BOWLING ALLEY		688	Municipal Parks
	222 AFT TAX CREDIT			SKATING HINK		4.2573	
			882			690	12 10 10 10 10 10 10 10 10 10 10 10 10 10
	299 APT STRUC UNDER CONSTRUCTION		865	HEALSH SPA		700	TELEPHONE VACANT LAND
	880 GENERAL COMM VACANT LAND		384	BWIMMING - INDOOR POOL		702	TELEPHONE DISTRI SYSTEM (ROW)
	301 RESISTRUCIONVERSION ON COMM VAL. L	900	388	TENNIS CLUB - INDOOR		705	TELEPHONE IMPROVED OPERATING
	and UNBOUND COMM/STRUCTURE		366	RACKET CLUB - INDOOR		TOE	PHONE IMPROVED, NON-OPER (NOT IN USE)
	ana DORMITORY	.	387	COUNTRY CLUB (W/O GOLF COURSE)			TELEPHONE EQUIPMENT BUILDING
	214 HOTEL/MOTEL HURISE 4 STORIES OR MOR	S.,	388	CLUB HOUSE		712	
	315 HOTEL WOTEL LOW RISE 3 STORIES OR LE		380	COUNTRY CLUB (W/COLF COURSE)		743	
	219 NERSON HOME	77	350			1000	Contract of Contra
	17 RETIREMENT HOME			AMUSEMENT PARK (LUC ONLY)			TELEPHONE WORK ONTRISERVICE BARAGE
	75.35 (2m) 1176 (2m) 1176 (2m)		391	COLD STORAGE PACILITY		720	RADIO/TV TRANSMITTER FACILITY
	318 BOARDING & ROOMING HOUSE (SHEEBING)	W)	382	LUMBER STORAGE		736	UTILITY DISTRICT, VACANT LAND (EXEMPT)
	319 COMMISLIDOMIXED RESIDENTIAL		903	AUXILIARY IMPROVEMENT (LUC ONLY)		733	UTILITY DIST. PLIMPISTORAGE SITE (EXEMPT).
	321 RESTAURANT		204	AUTO SALVAGE YARD		735	UTILITY DIST OTHER OPER MP (EXEMPT)
	128 FOOD STAND (BELOW REST, & PAST FD CO	487]	595	TRUCK TERMINAL		727	UTILITY DIST. OTHER NON-OPER MP. NOT IN US
	324 CONV. MART WIGAS PURIFIS INCL OTHER U		396	MINI - WAREHOUSE	I	740	PIPELNE COMPANY VACANTI AND
	STA HERT HOLD	8	207	OFFICE - WAREHOUSE	I	743	PIPELINE COMPANY, DISTR. 8YSTEM (HOW)
	326 ICE HOUSE		395	WAREHOUSE		743	
							PIPELINE COMPANY, PLANT (MFCR
	327 BARLOUNGE	_	399	WAREHOUSE-WETALLIC		745	PIPELINE COMPANY, PUMPING STATION
	328 NIGHT CLUSIONNER THEATER		+00	VACANT INDUSTRIAL LAND	LESSON	747	PIPELINE COMPANY, IMPROVED OPERATING
	529 LISED CAR LOT		401	MANUFACTURING PROCESSING		748	PIPELINE CO., IMPROVED NON-OPERATING
en .	530 SPECIALIZED AUTO USE (Lube Center)		402	Auto Salvage Yard (LUC Only)		760	ELECTRIC COMPANY, VACANT LAND
mm.	531 AUTO DEALER FULL SERVICE (New Car)		405	RESEARCH AND DEVELOPMENT	I	762	ELECTRIC CO., DISTRIBUTION SYS (ROW)
	332 AUTO SERVICE GARAGE		410	PRODUCTS RECOVERED FROM NATIONAL	I	Ma	ELECTRIC CO., GENERATING PLANT (LUC DNL/)
	333 SERVICE STATION (FULL)		411	FOCO & KINDRED PRODUCTS		766	ELECTRIC CO., BUB-STATIONS (LUC ONLY)
	334 SERVICE STATION (SELP)		412	APPAREL & FINISHED PRODUCTS		766	
	334 SERVICE STATION (SELP) 335 TRUCK STOP	10000	413				ELEC. CO., WORK ONTH COMPLEX (LUC CALY)
				LUMBER & WOOD PRODUCTS		181	Binding Company Improved Operating (LUC Only)
	136 CAR WASH (MANUAL)		414	FURNITURE AND FIXTURES		750	ELEC. CO., IMPR., NON-OP. (NOT IN USE)
	337 CAR WASH (AUTOMATIC)	Mart	415	PAPER AND ALLIED PRODUCTS		790	Markved Vacant Land
	338 PARKING GARAGE	OF	416	CHEMICAL REFINING & INDUSTRY		752	Malifold (NOW) (LUC Driy)
	339 PARKING WISC.	industrial	417	PETROLEUM REFINING & INDUSTRY		755	Mailroad Improved Operating (LUC Only)
	340 Retail Power Center (Lge Disc Dept Stones)	F2	418	RUBBER & MISCELLANEOUS		787	Mailroad Improved Non-Oper (LUC Only)
	341 Regional Shopping Mail	100	418	CONCRETE PRODUCTS		750	Railroad Operating with Lassed (mpr (LUC Dely)
	342 COMMUNITY SHOPPING CENTER		420			770	Proving Vacunt Land
				PRIMARY METAL INDUSTRIES		10.7	
	343 NEIGHBORHOOD SHOPPING CENTER	(FE 31)	421	METAL FABRICATING			Plouline Distribution Sys (ROW) (LUC Only)
	344 STRIP SHOPPING CENTER		422	MACH & TRASSPORTATION EQ.		773	Pipeline Pumping Station (LUC Only)
	345 DISCOUNT DEPARTMENT STORE		421	MARTIME SHIPPING		775	Pipoline Slarage (LUC Only)
	346 DEPARTMENT STORE		421	MISC MANUF (Oran Stg/Prescosing)		m	Plouline Improved Operating (LUC Only)
	347 SUPERMARKET		444	DWELLING ON INDUSTRIAL LAND		779	Plostins Improved Non-Oper (LUC Only)
	348 CONVENIENCE FOOD MARKET		445	MIRICELLANEOUS ALIX. STRUCTURE		799	
	The state of the s		3.50			con	Utility Nave Construction (LUC Only)
	349 MEDICAL OFFICE	100	490	Abated telephia Land			
			4000	COMMUND, STRUCT, UNDER CONST.			

Commercial Additional Detail Codes

	1	Description	Class	Description	Chairtal State And	Type	Centriplion	Class	Description	See Ad Chichos	2		1		es projecte es
Professional (1992) Professional (1992)	140	The Property of	AT 15-81	1940 810	143	L		0.1	Dedicional Rain (Books to	No.	-	Veteration	Camp	Cestrifician	Pas OF
The original of the color of	100	Well Figures	WF 45-125	01-125 BT.Us	140			9	Load Dish, Stone or Core.	2	447		100	Mac Careral \$100	Art No
1			WF120 155	128-333 DT.As	95	405	Occide Longing	207	Leading Doch, Wood	1 2			Wall A	More \$1,000 pay Used	AP No
Control Cont	833	Broom Broom	The last	16-97 07-36	No			9	Leading Dock Intrafor	No.	_		0110	Particular Property	N3
Control Cont			(F15%, 134	136,000,000	o i			3	The shoot Train William	Na			PPITTON	SPP Still convert	Na
Control Cont			Of 18 At	16.40 000 10	JON.			907	Concernit Flamp	Na			CH 183	No Goldsky beads	0 10
Control	073	Colling Tamace	CF AL 124	10.00 to 10.	2 .	4.30	Copy Charac	001 K	Ocer Op San \$1000	AF No	444	Sarkin	8	Wet Spinster - Jose	2 :
Control Cont	2		CP128-330	126 500 871-	2 3		Meny for 1885	ELL'S	She Alacai, \$1,000 per Unit	4.4		2020000	552	Dry Statistics - Area	9
			29-08-0	80 fic 871.x		-		EL 193K	Che. Kiscal, \$100,000 per Unit	AF-No	445	Stalway - Out	581	Stoks Extern Dor Flass	, American
Control Cont	*40	Carri shed	CHS1-150	AT-152-071/2		9	December	15.0	Clear Sloc. Freight No. 38 on 33	ē				Cooper T&A	
Controlled Con			D-0155 333	191-101 (17.16)	2 3		S. S. S. A. A. C. S.	(273)	New Ben Personal for 305 or 10	Lan.	4+0	Stock Envir	ES1 K	Shoot \$1,000 per time	40 84
Controlled Control C	200	Multiple Healtha	ME-1-0	Cert Hast Male Store Sales	0.00		NOV 21 LOVE Nov 25555	(23)	Environd Protoco Ve day 57	111			E3114	\$6pt \$13.000 per une	40.80
Consideration Consideratio			00.53	12 km - 3 km Coeked	100			(P4)	Environt Passenger for 00	THE .			HEST	CR ty Didg. Flavor	100
Control	183	CertiCooks	00.31.6	Street Street			New Yor 2006	41.4	Deviced \$1,000 per Unit	AFNo	447	Shrage	HES	URS Skip Velod	
County CCC C			O-C+6	De tra Causa		414	Complex	60%	Eyestation 12" Width for Viti	sta.			1123	CRES RANGOTTO	
Control Cont			FC.5-3	19 he - 3 be test	100		Work Politice AND	214	Displayer 46" Width Sc VIII	11/11	_		1,0	State Free Typical	300
Control Cont	250	Passaving	90114	3.1 me - 6 to Unit	100	400	100	1	vertical Europe 28-132	100	440	Spen Front	265	Shing Frank Good	ž
Control & Col		Cooks	BCS 4	fir for the	2 1	4.3	ECTATE FAI	242	WerBatter Type 35"	ž,			883	Street Fact Espanse	į
Contrigate Con	100	NAIR Gooks	MESSET	Clerk Cooling Male Styley Spire	14			E E	Weelfalls: Dup 40' or main	H23	440	Substanting Page	101	Swimming Pool Colocor	340
Control & 2			CHC 83	12 km - 3 km Hotel	-			5	Perce Charles 4	¥2			805	Seeming Red Village	No.
The state of the	10	Cantillaka	C+C314	3.1 km - it ton House	ž			2	Perce Charling 6	No			101	Tenne Court Approx	- No
Control Cont		(00000)		6+ se HWC	,			2	Chambrid & Sat 84V	9	483	Termia Doug	10	Tents Court - Concrets	No.
Treatment CHP5.50 CH		Multiday HWG	1	HUAC MAR. Stav Bits	1			7.	Chainink 8 to Colors and	No.			103	Termoone-Clay	2
Control Street Color C		Presidence		H Resp 0 50 to 50 Taxa	4	***		W.	Perce Metal S17	140			PICS	Tevade Tyakai - Cons	14
Section Street Section Secti	2	-IT Pasts	CHPs1	Hilbert of CTare	9		4000	1	Wassiful both Typical	- No.	452	Tartoce	PC:0	Territor Supenior	2
Control 17 Sept. December 18 Control 18		Sed: Tex	8.11	Bath Tub Inheim	No			L L	Whitelfill from Elaborate	2			Pet y	Tarrace Disposition	N.
Control 18 18 18 18 18 18 18 1		SPRITER.	#TA	Beth Tub Awresse	PAG.				D-s peak eases	2	10	Truck Scales	184	Truck Scales	160
Control Cont		949-1.0	0 E	Seth Tuto Superior	2			1	Venoury Mail Typical	2			155.4	Larrie Stern Sen Trads Scoke	45.40
Controlled Con	-	Correction	250	Continode interior	2			1410	Witterpt Wall Good	E.			120	Bark Vault Novey	/Ap
Conversion Colds Conversion	22	Corrector	CHA	Contrade Armaga	Na			100	Consider from the days with	ER.			182	Bank Walf Fac Sig	740
Control Cont	2	Commode	CHS	Converse Superior	N ₂	419	Personal	i i	and of the Change	144	20000	000000000000000000000000000000000000000	30	Vest Dogs T-6"	2
Street 14	1	Lendon	177		140			E	Constitution in the same		į	Barking Equip	154	West Door 7" or more"	Pile
Street Street State Street St		Lavadory	LWA	Contract Portigo	140			140	Great house bear	2			530	MgM Dapast Orcp	ES.
State Stat	1	Tarabet	198	Lengthy Squetor	360	Ę	Greenhouse	0.00	Canadana Course					Prestrato Tube System	ž
Street State State State Street State State		The same of the sa	100	Greet Galitheau	No			6913	Other Poune Average	2			200	A IN CHARGO	200
200		STATE OF THE PERSON	20-51	Stone Sell-Agence	No			DH4	Greenhouse Good	2			100	A Many President	No.
Control Cont	1	0.00	92.00	Chowar Stat Salester	Pair			127	LGT QuarterFlace 13' Aug.	No	100	Conf Courses		POST DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TW	ž
10		2000	200	STATEMENT	Pro-			672	LGT Questaffluer 20: Any	No.		Inter-	F	Surfaces St. o. http://original	9 ;
Principage Pri		20.0	2.70	STE CARRIED	No	429	Ught Standard	123	WentfolkersHalida 15	100			000	Los Ballins of Manner	9
About the part Abou	f	White feather	T	Color of Colors	No.			174	ManScottershalds, 25"	ź	452	Gas Albertard	650	The Street Street Street Street	au :
About 1 Abou	1	Agent Hages		Comment of the Park	64			LTS	LGT CHAMMETS! Pole 12	No		Sorth	080	The Sill Shape on Manager	. w
United U.S. Christopher U.S. Christopher		Aurel Heater		White House County	0	430	Camber Shed	Special	Executions	No			1000	Perilbother On Gro	-
Control Cont		Christ		Union brings	90	-		NW.	Memory Well Typical	Ne	459	Pert, / Madday	CMS	Perfebblisher City, 2023	
Controller	87	Ches	usa	Uting Saunes	000	413	Matery VAN	MAG	Mesorry Well Good	Pile.		Office	CMS	Partitional Discognice	2
Freedom First Fi		CENT		Orbed Streets	100			MAKS	Mesons Mrt Didono	P.E.		(NO. Fighas)	CBM	PartMetaler Ole-Vary Gd	9
Figure Phy Control Advance Phy P		Fourthin		Partici Printer	-			1000	Well-Use May Fin (On, etc.)	10,	ZZX	Bathborn Aug	BATHA	Avt Byte- Carmeria	op.
Figure F		Fourther		Tables Avenue	- 1	449	The second second	Jan.	Wall-Use War Death Open	Yes	100	BathRoon Oug	BATHS	SuP Batta Commanda?	No
About Same Art About Same		Postale		Fourter Suprem	Net.		Name of Street	6000	Well-Learner by Live Cost	***	20	Dalit Vis. Aug	B.T.W.	Ang Bullion (Assistating)	No.
About Cheeser About Cheese		Bitter Sewer		Water Seon? Corn, Marke	Na		Office Days	2000	Wathfree Well Sty Table	7.08	500	Balties - Sap	0,740	Superior Suill-In (West of Day)	No
Marci Santon Milk Marci Santon Core Santon Milk Marci Santon Core Santon San	J	AKE Sever		With Sawe Corn, Awariga	. 80		Charle Carrers		MATERIANO, LANGE ACRES	444	3		FEBR.11-4	Ang Hall Both	Pic
	l	Charles Spanis		Wilder Seven Corn. Superior	40	433	Redisvisi		Multi User, Cerbon		3 3	1	FFBATHS	Dept Fair Suits	No.
The correct MTD Investment The correct MTD Investment The correct MTD Investment The correct	Ц	PRINCE	Ш	Parce II America	ON THE		A Philippins		Multi-Une, Storage	748	660	t	BLTAS	The Residence of Control Control	2 3
Career Color Control Control	Ĭ	Pancer	н	rivercam departure	Ne	456	Paletifoors	н	Low Cost Utility Stg. Area	Yes			7	MH E . 10 Wells	AP No.
CARRON CORP. COR				Caroling Deb	Yes.				Point Books \$1,000 per Unit	27.00	810	Manhehma		MHIZ-14 With	68.49
Control Formation Cont		Manage		Correcte Reading Detected	100				Powing Approach Typ.	Ne.		Stocks Harrest		MATTER A 24 WHITE	9 5
Cold Street				Carcop R SRV STA-Ess	N.	437	Paved Ansa		AngiCond Serviceson Hyp	2.			ш	MATCH CONTRACTS	N. No.
Section Control Cont				Cancery MCSRN 5TA-Aug.	E S			2	Paning Core Heavy	2.2			2	Mary Stagle Space State Harrandon Color, Chin	No.
CASE Description CASE Description<				New Cerepy - Dive This	Yes			200	Patricing Control Make Chain	ž		Waterback		Mr. Exercise Space Shan	8 2
Crass May Cold Crass May Crass May		Sold Shenge			9	Н	Harrand Sper	100	Spd 1936 Shart Lines;	9	818	Plora		Wit Way Line Cost Space	2
Company CAV			1	York-is Ban Sharp-Pur	ě	1	Stee	Special	Constitute Contract	240	8	Chesifoshor	Merce	VH 4vg Space Sims	2 2
Disclarate Cd.3 Oct. Lendin, Advantale No.		Const may		both Leveler, Marke	92.5	7	Sea / Whitpasi		San White Avt. 14 Pages	2.92			1487	WH Abres Aug Space Stay MH Thord France Stay	2
		Dick Lawrence		Noth Levelor, Automatic	No.				Spa White ODOD 5-11 April	No	THE PARTY	- 100 - 100	1000	Mary Property Spinster, Ships	100

Commercial Tanks Listing

450 TANKS -- FARM STORAGE MS 17/54 5/2009 **Steel Grain Bins**

Where:

Type = 450

Method = R or C

= AG1 for Mtl Grain Bin w/o Dryer

or Class = AG2 for Mtl Grain Bin /w Dryer

Area = No. of Bushels Length = 0 (Zero Entry) Width = Diameter of Bin

Height = Height to Eave Perimeter = 0 (Override /w Zero Entry)

Conversion Systems

1 Cubic Foot = 0.8036 Bushels

1 Bushel = 1.244 Cubic Feet

1 Gallon = 0.1337 Cubic Feet = 0.1074 Bu.

Formula -- Calculate a Grain Bins's Bushel Capacity According to Eave Height:

Dia X Dia X 0.7854 X 0.8036 X Height to Eave

OR -- Dia X Dia X 0.6311 X Height to Eave

To Calculate the Capacity of a Grains Bin's

Cone in Bushels:

Height of Cone = 1/3 of Diameter

1/3 X Dia X Dia X 0.6311 X Height of Cone

A Grain Bin's Maximum Capacity = Bushels to Eave Height plus Cone Bushels.

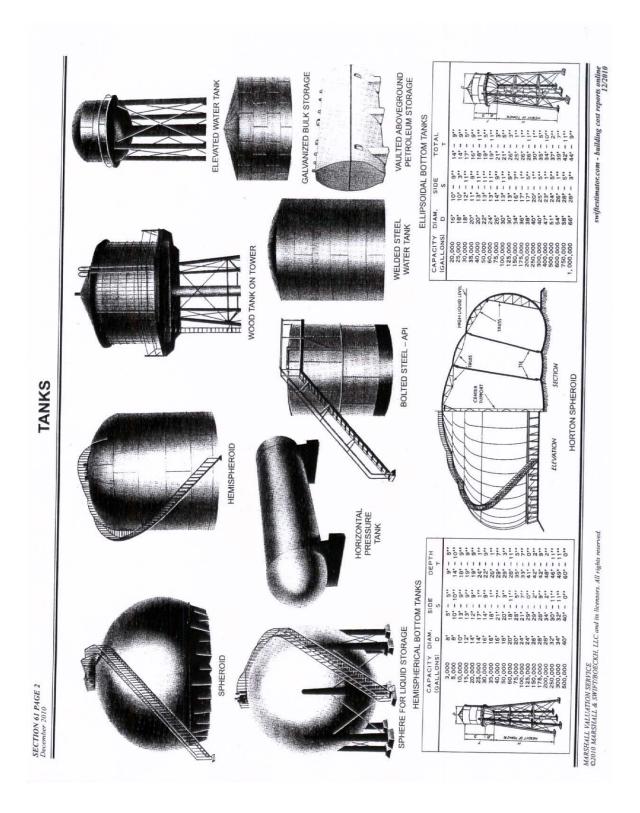
MS CURRENT COST & INDEX GUIDE TO: -- OTHER / ADDITIONAL DETAIL CODES -- Commercial Valuation

Туре	Description	Method 'C' Class	Description	Dimensions	Unit of Measure	Yr Bit	Eff Year	Expected Life	Qual Adj (CM); Add Factor OR	CCM & LN
			Grain Bin Stl w/o Dryer	Dia. X Ht.	Bu	Yes	Yes	30	No	CC17Bam
			Grain Bin Stl with Dryer	Dia. X Ht.	Bu	Yes	Yes	30	No	CC17Barr
450	Tanks (Bulk)		Bolted Steel Tank - API	API Dia. X Ht.	Bbi	Yes	Yes	30	No	U61_1-8
100	(Duik)		Welded Sti Tank Floating Rf	API Dia. X Ht.	Bbl	Yes	Yes	30	No	U61_1-8
			Welded Stl Tank Dbl Roof	API Dia. X Ht.	Bbl	Yes	Yes	30	No	U61_1-8
Bt. TW	/1, TW2 & TW3 are		Welded Steel Tank- API	API Dia. X Ht.	Bbl	Yes	Yes	30	No	U61_1-8
	Oil Storage Tanks)		Vertical Mild Stl Welded Tank		Gallons	Yes	Yes	25	No	U61_1-8
	on olorage ranks)		Vertical Galv Bolted Storage	Dia. X Ht.	Gallons	Yes	Yes	25	No	U61_1-8
			Horizontal Bulk Stg Mtl Tank	Dia. X Length	Gallons	Yes	Yes	25	No	U61_1-8
		INTOOK	Mtl Stg Tank-Lump Sum	FV- Dia X Ht	# - Items	Yes	Yes	30	AF No	U61 1-8

Commercial Tanks Listing (pg 2)

	DEFINITIONS AN	NS AND COMMENTS	0	CAF	ACITY OF	CYLINDR	CAPACITY OF CYLINDRICAL TANKS OR RESERVOIDS	S OR RESE	SALONS
ASME refers to the st ASME refers to the Mechanical Engine	API refers to the standard specifications of the American Petroleum Institute. ASME refers to the standard specifications for pressure tank design of the American Society of	nerican Petroleum In essure tank design o	stitute. of the American Society of			(per fool	(per foot of depth or height)	ht)	
WATER TANKS ar	e normally measured in gallons mally measured in barrels of A	Company of the Company		DIAMETER	U.S.	BARRELS	DIAMETER	8	BADDELC
STEEL RING CUR bottom is then place	B is a steel ring used to hold the	e foundation sand o	r gravel in place. The tank	(feet)	(gallons)	(42 gals.)	(feet)	(gallons)	(42 gals.)
HORTON SPHERE	HEMISPHEROID, DEWAR, e	tc., are types of larg	e liquid- and gas-presente	- 2	23.50	56	32	6,016.2	143.2
Vessels.		9	pinceoid-cold num nuclei	က	52.88	1.26	34	6,398.1	152.3
fuels, or those us	waity special tanks found in use cannot be included here, such as those for storage of exotic fuels, or those used in food or beverage processing which are in the patrice of included	ded here, such as the	hose for storage of exotic	4 u	94.00	2.24	35	7,196.0	171.3
processing equipment.	ent.		IBINSDRIII IO AIRIBII	9 60	211 51	3.50	36	7,613.3	181.3
The costs of the tar necessary foundation	The costs of the tanks listed in this section are averaged the costs of the tank fittings but not all	ages of total costs in	are averages of total costs in place at the site including	7	287.88	6.80	38	8,041.9	191.5
The tanks included	in this section are those upon	or not plings, pipe, rencing, site roads, etc.	site roads, etc.	00 (376.01	9.00	39	8,934.9	212.7
grain bins and silos	grain bins and silos, see Section 17.	printarily for liquid a	ind industrial storage. For	D 5	475.89	11.30	40	9,398.7	223.8
The tank costs listed	The tank costs listed do not include an allowance for cathodic protection. Add 2% to 5% of the	for cathodic protect	ion. Add 2% to 5% of the	2 =	710.90	16.90	47	9,875.8	235.1
The etect traffe its	lid.			12	846.03	20.20	43	10,362.0	246.7
stainless steel.	steel tanks listed are for carbon steel, unless otherwise noted.	ss otherwise noted.	Add 150% - 300% for	<u>. 13</u>	992.91	23.70	44	11,374.0	270.8
Adjustments will ne	Adjustments will need to be made for extra warrantees of different	to a different and		4 4	1,151.50	27.40	45	11,895.3	283.2
	or to the state of the waller	tees or difficult site o	conditions.	0 1	1,321.90	31.50	46	12,430.1	296.0
	WEIGHTS AND	AND MEASURES		17	1,697.90	40.40	44/	13,534.8	309.0
				18	1,903.60	45.30	49	14,104.0	335.8
1 gallon (water)	weighs		8.34 pounds	18	2,120.90	50.50	20	14,685.9	349.7
1 gallon	eduals		.1337 cubic foot	21	2.591.00	61.70	09	21,149.3	503.6
1 gallon	equals		.1074 bushel	22	2,843.60	67.70	80	37 508 7	685.5
1 gallon	equals		.8327 Imperial dallon	23	3,108.00	74.00	06	47,585.9	1 133 1
1 gallon	equals		3.7853 liters	24	3,384.10	80.60	100	58,748.0	1,399.0
1 acre foot	equals		325.900 gallons	28	3 971 60	94.40	120	84,597.1	2,014.5
1 cubic foot	eduals		8032 hiebel	27	4,283.00	102.00	160	115,146.1	2,742.0
1 cubic meter	eduals		6 2898 harrels (pi)	28	4,606.20	109.70	180	190,384.9	3,581.4
1 barrel (oil)	Serios		C. COSO Dell'els (OII)	29	4,941.00	117.60	200	234,992.0	5.596.0
1 barrel (oil)	Sellon		42 gallons	30	5,287.70	125.80	220	284,340.3	6,771.2
1 barrel (water)	stande		and a capic meter	5	0,040	134.40	240	338,388.5	8,056.9
Pressure in pounds p	Pressure in pounds per square inch of column of water equals. 434 times the height of the column in fact.	ter equals .434 times	31.5 gallons the height of the column			TYPICAL	TYPICAL TANK LIVES	S	
Circumference of a circle	sircle // =		3 1416 × 11	Tank lives car	vary widely	depending on	Tank lives can vary widely depending on the storage loads and conditions placed on the	ls and condition	s placed on the
Area of a circle		100	3.1416 x the diameter	individual tank	the method o	of installation a	individual tank, the method of installation and appropriate maintenance and warranties. The	naintenance and	warranties. The
Area of an allinea	ı	× 4854 ×	7854 x square of the diameter	shortened und	sted below re	present averag	lypical lives listed below represent averages under standard applications. Lives may be	ard applications	Lives may be
Volume of a sphere	ш	.7854 x pro	7854 x product of both diameters	conditions or le	nathened under	ements, such a	conditions or lengthened under very mild circumstance.	sive materials an	d/or atmospheric
volume of a spinere	И	.5236	.5236 x cube of the diameter			olo piiii da s	amstances, by sp	ecial coatings, d	ouble walls, etc.
volume of a cone	11	area of ba	area of base x 1/3 of the altitude	9					Veare
	Capacity in barrels (oil) = D2 x .1399 x height	c.1399 x height		Galvanized s	Galvanized steel	15	Galvanized s	Galvanized steel chemical storage	
×4 -	(diameter and height in feet)	ght in feet)		Steel oil storage	Steel oil storage	. 25	Stainless stee	Stainless steel chemical storage	e 15 -
K	Capacity in gallons = D2 >	$1s = D2 \times 5.8748 \times height$		Elevated steel tanks	water storage el tanks	. 62	Polyethylene	Polyethylene chemical storage	. 15
(a) 118	(diameter and heigh	and height in feet)		Underground	Underground steel, single wall		Indergraphy	Independent fiberaless	15 - 20
1000	Capacity in bushels = D2 x .6308 x height	.6308 x height		double walled	db	25	Wood	seeplage	
tower 344441	(diameter and heigh	and height in feet)		fiber coated		25 - 35	Steel pressur	Steel pressure tanks	202

Commercial Tanks Listing (pg 3)



Commercial Tanks Listing (pg 4)

	ELEVATI	ATED STEEL TANKS	INKS			WEL	WELDED STEEL WATER TANKS	WATER TA	NKS	
are average will indicate ic forces. Co illy installed, c	s for each of the hands which areas requisits include tank, the completely erected	Costs are averages for each of the high-stress and low-stress areas. A check of local building codes will indicate which areas require extra structural strength to resist possible hurricane or seismic forces. Costs include lank, tower or pedestal, riser pipe, ladder, and other equipment normally installed, completely erected as well as typical foundations and painting.	ess areas. A check or nigth to resist possible r pipe, ladder, and ot ndations and painting.	f local building le hurricane or her equipment	Costs are aver ladders, paintir more. Sand an gallons capacit	age costs of su g, fittings on tar d gravel founda y, or less, concr	Costs are average costs of surface reservoirs including typic ladders, painting, fittings on tank, etc. Steel standpipes (height more. Sand and gravel foundations with steel retaining rings a gallons capacity, or less, concrete foundations on larger tanks.	including typical dpipes (height ex taining rings are n larger tanks.	Costs are average costs of surface reservoirs including typical tank ancillaries such as roofs, ladders, painting, fittings on tank, etc. Steel standippes (height exceeds diameter) will cost 35% more. Sand and gravel foundations with steel retaining rings are included on those of 1,000,000 gallons capacity, or less, concrete foundations on larger tanks.	uch as roofs, will cost 35% of 1,000,000
	LOV	LOW-STRESS AREAS	AS		CAPACITY	COST	CAPACITY	COST	CAPACITY	COST
ne coele in ar	reas not requiring	Averane costs in areas not requiring earthquake. (including zone 1 areas) or huricane-resistant	zone 1 areas) or hurr	icana-resistant	(gallons) 10,000	\$ 46,000	(gallons) 200,000	\$ 275,500	(gallons) 2.000.000	\$1.274.000
structures.	Simple your spou	Supplied Supplied	Total alcas) of the	ingian colonial	20,000	73,500	250,000	310,750	2,500,000	1.490.750
CAPACITY		TOWER HEIGHT	H		30,000	96,250	300,000	344,500	3,000,000	1,705,750
(gallons)				150.	90,000	131,500	400,000	430,750	4,000,000	2,080,000
25,000	\$ 320,000	\$ 356,000	\$ 412,000	\$ 535,000	75,000	172,000	500,000	505,000	5,000,000	2,432,750
25,000	411,000	455,000	509,000	632,000	100,000	209,000	750,000	648,750	6,000,000	2,774,500
100,000	444,000	486,000	544,000	670,000	125,000	225,500	1,000,000	750,000	7,500,000	3,240,500
150,000	544,000	596,000	651,000	778,000	000'061	243,730	000,006,1	1,046,230	10,000,000	3,958,750
300,000	911,000	995,000	1,059,000	1,178,000		BOL	BOLTED STEEL WATER TANKS	WATER TA	NKS	
400,000	1,070,000	1,169,000	1,224,000	1,355,000						
500,000	1,194,000	1,298,000	1,399,000	1,544,000	Costs are aver gravel with a st	age costs for fa eel ring curb, ind	ictory coated, boll cluding typical acc	ted steel surface ressories such as	Costs are average costs for factory coated, bolted steel surface reservoirs erected on sand or gravel with a steel ring curb, including typical accessories such as roof, ladders, manways, vents,	d on sand or ways, vents.
1,000,000	1.979,000	2.135,000	2.328.000	2.611.000	fittings on tank,	and liquid leve	I indicators, etc. C	concrete foundati	fittings on tank, and liquid level indicators, etc. Concrete foundations cost an additional \$4.50 to	onal \$4.50 to
1,500,000	3,522,000	2,963,000	3,242,000	3,670,000	\$6.00 per cubi earthquake resi	c foot. Tank and istant structures	I foundation costs add 5% to the tank	s depend on seis k cost and use \$7	\$6.00 per cubic foot. Tank and foundation costs depend on seismic zone. For areas requiring earthquake resistant structures add 5% to the tank cost and use \$7.00 per cubic foot for a concrete	eas requiring or a concrete
	HIG	HIGH-STRESS AREAS			foundation cost. 5% to 15% less.	Modular knock s.	down containmer	it tanks with men	foundation cost. Modular knockdown containment tanks with membrane liner and cover will cost 5% to 15% less.	over will cost
e costs in al	reas requiring earth	Average costs in areas requiring earthquake- (zones 3 and 4) or hurricane-resistant structures.	4) or hurricane-resista	int structures.	CAPACITY	DIMENSIONS	TANK	CAPACITY	DIMENSIONS	TANK
CAPACITY		TOWER HEIGHT			(gallons)	(q x p)	COST	(gallons)	(d x h)	COST
(gallons)	20,				10,000	15' x 8'	\$ 27,750	300,000	47' x 24'	\$197,750
25,000	\$ 405,000	\$ 450,000	\$ 523,000	\$ 672,000	30,000	18' x 16'	49,750	400,000	53' x 24'	250,250
50,000	437,000	485,000	552,000	711,000	100,000	26' x 20'	80,500	200,000	60' x 24'	315,250
75,000	515,000	5/3,000	648,000	801,000	125,000	29' × 24'	97,750	000'009	64' x 24'	368,000
100,000	264,000	000,919	693,000	850,000	150,000	32' x 24'	116,250	900,000	78' × 24'	516,250
000,001	000,190	1 000 000	4 004 000	984,000	200,000	37' x 16'	145,000	1,200,000	91' x 24'	685,000
300,000	1 154 000	1 266 000	1 336 000	1 494 000		ŏ	CONCRETE WATER TANKS	ATER TANK	(S	
400,000	1,354,000	1,481,000	1.548.000	1,718,000	Coate are aver	and of complet	ochus betoese vie	loci orionacaes of	Onete ara avaranae of normalataly arantad entrana secondaria including foundations.	
200,000	1,514,000	1.645,000	1,770,000	1,953,000	and typical tank	ages of complete	ery erected surract	r nining are extra	costs are averages of compretely elected surface reservoirs, including roundations, dome roots and typical tank ancillaries. Sitework and exterior piping are extra. Small precast modular tanks	, dome roofs
750,000	1,983,000	2,145,000	2.332.000	2.627,000	up to 30,000 c	allons, cost \$6	,800 to \$8,250 p	er 5,000-gallon	up to 30,000 gallons, cost \$6,800 to \$8,250 per 5,000-gallon module. For high-stress areas	stress areas
1,000,000	2,510,000	2,705,000	2,950,000	3,307,000	requiring eartho	quake- (zones 3	requiring earthquake- (zones 3 and 4) or hurricane-resistant structures, add 30%	ne-resistant struc	tures, add 30%.	
1,500,000	3,486,000	3,755,000	4,110,000	4,647,000				-		
2,000,000	4,464,000		5,261,000	6,003,000	CAPACIT	500	CAPACITY	200	CAPACILY	COSI
		RESERVOIRS			(gallons)		(gallons)		(gallons)	
					10,000	54,500	200,000	\$340,750	2,000,000	\$1,294,000
e cost of cur	t and fill reservoirs	Average cost of cut and fill reservoirs with concrete linings and roof structures, per unit of rated	and roof structures, pe	er unit of rated	20,000	83,250	250,000	386,750	2,500,000	1,446,000
capacity.					30,000	105,250	300,000	471,750	3,000,000	1,674,250
Root Cover		Cost per gallon	Cost per acre foot	oot	20,000	144,500	400,000	512,750	4,000,000	2,009,000
Floating		45. 44 12. 44	067,UTT&		75,000	242,750	200,000	554,750	5,000,000	2,359,000
Aliminim		08	259,000		100,000	287,750	750,000	693,500	6,000,000	2,739,500
Concrete		00°	270,000		125,000	325,250	1,000,000	797,750	7.500,000	3,195,750
		2			150 000	367 250	1 500 000	077 750	40,000,000	4000000

Commercial Tanks Listing (pg 5)

Costs are averages for cedar or fir tanks completely erected on the buyer's foundation. Add 33% Costs are average for cypress tanks. Sizes given are typical diameters and heights, in feet. Smaller tanks up to 10,000 gallons have 2" staves, larger tanks have 3". For elevated tanks, add tower cost, Add \$46 indicator gauges. To \$52 per foot of diameter for sand and cravel foundation with retaining ring. Concrete slab.	WOOD TANKS	
		Costs are average tank above ground indicator gauges.

CAPACITY SIZE TANI	90	SIZE			TANK	FLAT	CONICAL	CHIME	WOOD	STEEL
(gallons)	9	(q x p)	=		COST	COVER	COVER	JOISTS	LADDER	LADDER
200	4	×	3	69	1,700	\$ 290		\$ 55	-	********
300	4	×	4		2,025	290	1	55	I	-
200	2	×	4		2,725	400	\$ 800	80	1	
1,000	9	×	9		4,175	290	950	120	\$180	\$260
1,500	1	×	9		5,325	099	1,125	160	180	260
2,000	80	×	9		6,400	760	1,300	200	180	260
3,000	80	×	8		8,025	760	1,300	200	235	320
4,000	10	×	8		9,525	1,025	1,750	310	230	320
5,000	Ξ	×	æ	100	11,575	1,275	2,050	400	230	320
7,500	12	x 10	10	77	14,175	1,675	2,325	460	290	380
10,000	14	x 10	10	-	17,875	1,925	2,800	700	290	380
15,000	14	× 14	4	14	25,500	1,925	2,800	700	390	510
20,000	16	×	4	63	31,450	2,375	3,800	925	390	510
30,000	18	x 16	9	4	40,725	2,700	4,550	1,175	430	575
50,000	22	x 18	8	S	56,375	3,375	6,100	1,450	480	650
75,000	26	×	20	7	72,500	4,075	7,600	1,725	540	700
100,000	30	×	20	Φ	88,200	4,525	9,350	2,250	540	700
150,000	37	×	20	-	15,025	6,375	12,225	3,275	540	700
200,000	43		0	4						

GALVANIZED STEEL TANKS

Costs are averages of 13- to 20-gauge, coated, corrugated steel tanks, installed or erected on the buyer's foundation. Prices include conical roof with manhole, freight and typical accessories. Deduct 15% for open tanks. Add \$45 to \$51 per foot of diameter for sand and gravel foundation with retaining ring. Add an additional \$6.00 to \$8.00 per cubic foot for concrete slab foundation. For elevated tanks, add tower cost. For smaller tanks, see Section 17.

						1
CAPACITY	DIMENSIONS	TANK	CAPACITY	DIMENSIONS	TANK	300
(gallons)	(q x p)	COST	(gallons)	(d x b)	COST	550
200	4 x 51/2	\$1,350	10,000	12 × 12	\$13,400	1,000
1,000	6 x 5	2,275	15,000	15 × 11	16,650	2,000
2,000	7 x 61/2	3,625	20,000	181/2 x 11	23,150	4,000
3,000	8 × 8	4,475	30,000	22 × 11	31,975	9'00'9
4,000	8 × 11	5,425	50,000	24 x 15	46,250	8,000
5,000	9 x 10	6,200	75,000	34 × 11	68,550	10,000
7,500	10 x 12	8,325	100,000	34 x 15	86,750	12,000

MARSHALL VALUATION SERVICE

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rerages of painted towers for flat-bottom tanks, including added cost of erection of ground, footings, piping to ground, valves, balconies, ladders to balconies, and

WOUL LOWERS

CAPACITY			TOWER HEIGHT	_	
(gallons)	12.	25'	20.		100
1,000	\$ 5,300	\$ 6,400)
1,500	6,000	7,750	\$12,600		-
2,000	6,800	8,500	13,850		-
3,000	7,850	9,800	15,600		\$ 39.4
5,000	9,200	11,800	18,650		45.1
10,000	12,400	14,950	23,300		53.6
20,000	19,200	23,150	35,500		78.2
30,000	22,750	27,150	40.450		88.4
40,000	25,250	30,450	45.100		95.7
50,000	1	33,500	48,700		106.0
75,000	-	1	56,650	83,100	128.8

In areas subject to earthquakes or hurricanes, a rough estimate of additional cost can be obtained from the following formulas:

17 18		5	5			:			:	:	٠			:	:	:	The sound of the s	IK Ca
25'	- 3				- 5				:	-				*		1	2,025 plus \$.060 per gallon of tank capac	Jk ca
50'				17		. 3	17	- 5	*			-						ak ca
75			- 5										 - 8					ık car
100'					:	:		-	-			- :	-			-		. kca

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VAULTED ABOVEGROUND PETROLEUM STORAGE TANKS

Costs are average for UL-listed cylindrical internal steel tanks encased inside a 6" precast concrete vault, providing a 2-hour fire wall and ballistic protection. The protective concrete outer steel is precast in two sections, allowing periodic internal tank inspection. Concrete support legs are cast monolithic with the lower section of the concrete vault. Costs include fittings and installation on the buyer's foundation. For supplemental internal overspill containment tank (7 to 25 gallons), add \$1,200 to \$2,975. For steps and platform, add \$725 to \$3,125.

Double Wall

Single Wall

Double Wall

Single Wall

SIZE (feet)

CAPACITY

SINGLE COMPARTMENT

DUAL COMPARTMENT

ost reports online 12/2010	swiftestimator.com - building cost	swiftestimator	72.	becomes obsolete after November 2012.	af
176,000	112,475	164,625	104,875	9½×34	12,000
146,375	93,500	135,575	86,875	9½ x 29	10,000
135,575	86,875	124,175	79,750	9½ x 23	8,000
105,375	67,425	93,425	59,825	9½ x 18	6,000
83,700	53,650	72,300	46,550	9½ x 13	4,000
50,250	32,425	46,100	29,675	7 × 14	
\$ 33,500	\$ 21,950	29,800	19,375	5½ x 12	1,000
I	***	22,875	15,075	51/2 × 7	220
-	-	\$ 20,125	DCC'C1 &	4/5 X	200

Commercial Features Codes

01 Foundation 01 Conc Slab 02 Pler&Beam 03 Conc P&B 04 Mas P&B 05 Stl P&B 06 Wd P&B	07 Roof Style M	11 Plumbing R	4K Well Count	24 Garage/Carport	36 Spa Mods
	200000000000000000000000000000000000000		10 Wall Count	and the same of th	
	01 Wd Frm	01 Avg	00 Open-No walls	01 G1Car	01 Att Attached to pool ea
	02 Sti Frm	02 Sup	01 1 Wall/Open-3 Sides	02 G 2 Car	02 Det Detached Spa Tub
04 Mas P&B 05 Stl P&B 06 Wd P&B	03 Wd Trs	03 Eco	02 2 Wall/Open-2 Sides	03 G 3 Car	
	04 Conc Jt	04 None	03 3 Wall/Open-1 Side		40 Canopy
	05 Conc Sib	05 Add'l Fixture - (#)	04 4 Walls-Closed	05 C 1 Car	01 Front CP
	06 Gable	Ex: 11 - 5 - (#)		06 C 2 Car	02 Rear CP
- 1	07 Hip		19 Skirt MH Skirting M	07 C3 Car	03 Side CP
02 Foundation Wall	08 Flat	12 Electrical B	01 Mtl Vny	08 C 4 Car	04 Gas CP
01 Conc	- 1	01 Avg	02 SpLp		
02 Mas	08 Roof Covering M	02 Sup	03 Msnt	30 Bedrooms Per Unit	41 Sprinkler System
- 1	01 Cmp Sh	03 Eco	04 SmiStn	n/a 1 Bd	01 Wet
03 Floor Structure	02 Metal	04 None	05 ConcBl	. 2 Bd	02 Drv
01 Wd Joist	03 Mtl Sh		06 BrckOrn	380	O3 NODe
02 Conc Joist	04 Bit Up	13 Interior Finish	09 None	. 4 Bd	
03 Steel Joist	05 Asbs Sh	01 Drywall		: 5 Bd	
04 Conc Stab	06 Tile	02 Instin Rf&Walls	20 Room Count		
05 Conc Sus	07 Wd Sh	03 Insthr Roof	(Total rooms excluding baths)	31 Baths per Unit	07 G 10x14
		04 Insitn None		n/a 1 Ba	08 G 12x12
04 Construction Style	09 Flooring B	05 DrywlL&Wainscot	21 No.of Bedrooms	" 1.5 Ba	09 G 12x14
	01 Carpet&Tile	06 Wainscot	n/a 1 Bd	" 2Ba	10 G 14x14
	02 Carpet&Vinyl	07 Paper	" 2 Bd	" 2.5 Ba	11 G 16x16
03 Sti Light	03 Carpet	08 Vinyl Paper	" 3 Bd	" 3 Ba	
04 Box St	04 Wood	09 Paper&Drywl	. 4 Bd	" 3.5 Ba	
	05 Tile	10 Paper&Wainscot	. 5 Bd	" 4 Ba	
	06 Vinyl	11 Trim None	" 6 Bd		
07 Conc Poured	07 Sft Tile	12 Trim Typ		32 Fireplace M	
	08 Marble	13 Trim Sup	22 No. Full Baths	01 Elaborate	
05 Exterior Wall Cover M		14 Trim Elb	n/a 1 Ba	02 Superior	
01 BV		15 Ceilings Fans	" 2 Ba	03 Typcial	
02 BV&WD			: 3 Ba	04 Low Cost	
		14 Ceiling	" 4 Ba		
	13 Dirt	01 Drywall	" 5 Ba	33 Lawn Sprinkler Sys	
			" 6 Ba	01 Residential Sys	
		03 Plaster	" 7 Ba		
				34 Security Sys	
	17 Partial Conc(barn/shd)		23 No. Half Baths	01 Residential Sys	
			n/a 1 Hba		
	10 Heating/Cooling M		" 2 Hba	35 Pool Mods	
			" 3 Hba	01 Div Diving Bd Stnd or Rock	
	02 Heat Pump		" 4 Hba	02 Slid Slide	
			" 5 Hba	03 Wtr Waterfall or Feature	
				04 DvSi Diving Slide Combo	
					.0
	06 Sus Gas Ht			06 DvSIW Diving Slide Water Combo	Combo
18 Face Brick				08 Addl Feature	
OS Wall Height		16 Spnd 12			
ar structure wall beintity		17 Spnd 14			
Ex. 06 - (Holoht)			B= Mandatory feature for Barns/sheds	ams/sheds	

Commercial Misc Reference Sheets

Commercial Reference Sheets

	Com Improvement Percentage Guidelines
10-30%	FOUNDATION
All work fro	m beginning up to, but not including, raising of exterior walls.
	OPEN FRAME
All framing	work in exterior walls, ceilings, roofs and interior bearing walls
40-50%	BOXED
All roof and	exterior wall coverings and a primer coat of paint if required.
	WEATHER-PROOF
All opening	s and primer coat of paint if required.
60-70%	INTERIOR WALL
Raising inte	rior nonbearing walls and interior wall and ceiling coverings.
122/2019 US 10/16/25	TRIM
All millwork	and cabinet work.
80-90%	PAINT
All painting,	sanding, and finishing.
90-100%	FINISH
All clean-up	hardware, and floor finish.

Com I	HVAC
Ceiling Height	Sqft/ Ton
8	500
9	445
10	400
11	364
12	333
14	285
16	250
18	222
20	200
22	182

		Property Chara	cteri	stics	in
UTILITIES		TOPOGRAPHY		ROAD ACCESS	
W - Water	1	LEV - Level	1	UIMP - Unimproved	1
S - Sewer	2	SLP - Sloping	2	GRAV - Graveled	2
E - Electricity	3	HIGH - High	3	PVD - Paved	3
G - Gas	4	LOW - Low	4	C&G - Curb & Gutter	4
SP - Septic Tank	5	RAV - Ravine	5	SDWK - Sidewalk	5

	ENTRY CODES
Code	Definition
FCO	Field conf w/owner (no walk thru)
NOH	No one home (no walk thru)
WT	Walk thru
PLNS	Drawn from plans (no walk thru)
PICT	Pictometry (no walk thru)
EST	Estimated (no walk thru)

Commercial Appraiser Tab Information

APPRAISER TAB INFO for Com Properties

UNDER COMMENT

PTD INFO: PTDYR \$XX,XXX. (Used for commercial properties only)

EXAMPLE: PTD01 \$419,806.

FEE APPRAISAL INFO: (F/APP, \$XX,XXX, MM-DD-YR.)

EXAMPLE: (F/APP, \$520,000, 06-05-02.)

UNDER REMARKS

Date contract was written.

CONTRACT FOR SALE: COS, MM-DD-YR \$XX,XXX, "source - GTE/GTR", date. EXAMPLE: COS,10-05-01 \$48,600, GTR, 06-02.

LISTING INFO: 4SALE \$XX,XXX, \$/sf, "source – ie COLDWELL BANKER, FSO/FLYER", MM-DD-YR. EXAMPLE: 4SALE \$95,000, \$85.00/sf, KELLY REALTORS, 02-19-01.

***For rent houses, duplexes, tri & four plexes. ***

RENTAL "school", xBd/xBa, \$XXX, MM-YR.

EXAMPLE for house: RENTAL WACO, 2Bd/1Ba, \$375, 100% OCC, 05-02. EXAMPLE for duplex: RENTAL WACO, 2Bd/1Ba, \$750(\$375/ea) 50% OCC, 05-02. EXAMPLE for 4plex: RENTAL WACO, 2Bd/1Ba, \$1450(\$350-375/ea) 75% OCC, 05-02.

Then go to IDENTIFICATION tab under DBA: RENTAL "school"

EXAMPLE: RENTAL WACO

(Bd & Ba are per unit, rent is per month.)

Commercial Land Tables

Commercial Land Quality Table General -- 2003

Land Table	<u>Description</u>	Code	Base \$/SF
QX+.COMLND	Excellent Qual Plus	X +	25.00
QX0.COMLND	Excellent Qual	X	20.00
QXCOMLND	Excellent Qual Minus	X -	18.00
QA+.COMLND	Very Good Qual Plus	A +	16.00
QA0.COMLND	Very Good Qual	Α	14.00
QACOMLND	Very Good Qual Minus	Α-	12.00
QB+.COMLND	Good Qual Plus	B +	10.00
QB0.COMLND	Good Qual	В	8.00
QBCOMLND	Good Qual Minus	В-	7.00
QC+.COMLND	Average Qual Plus	C +	6.00
QC0.COMLND	Average Qual	С	5.00
QCCOMLND	Average Qual Minus	C -	4.50
QD+.COMLND	Fair Qual Plus	D +	4.00
QD0.COMLND	Fair Qual	D	3.50
QDCOMLND	Fair Qual Minus	D -	3.00
QE+.COMLND	Low Qual Plus	E+	2.50
QE0.COMLND	Low Qual	E	2.00
QECOMLND	Low Qual Minus	E-	1.50
QF+.COMLND	Very Low Qual Plus	F+	1.00
QF0.COMLND	Very Low Qual	F	0.75
QFCOMLND	Very Low Qual Minus	F-	0.50

Commercial Land Adjustment Codes

Commercial Strip Land Adjustment Type Codes General -- 2003/2004

Type / Code	Description	Adjustment
NC1	Com Nbhd Cluster Low	115%
NC2	Com Nbhd Cluster Typical	125%
NC3	Com Nbhd Cluster Good	135%
NC4	Com Nbhd Cluster Exc	150%
CI1	Corner Influence Very Low	110%
CI2	Corner Influence Low	115%
CI3	Corner Influence Typical	120%
CI4	Corner Influence Good	125%
CI5	Corner Influence Very Good	135%
CI6	Corner Influence Excellent	150%
VA1	Visibility Access Fair	90%
VA2	Visibility Access Poor	80%
VA3	Visibility Access Very Poor	70%
VA4	Visibility Access LTD (Extreme)	60%
VA *	Visibility & Access (Describe)	User Defined *

Strip Type Adjustments for Commercial NBHD's by Land Segment

- A. 'NC" Nbhd Business Cluster Adj In a Commercial Strip Nbhd Near Major Intersections Land Use Density Sometimes Rises Significantly. Use "NC" - NBHD Cluster Codes to Adjust Land Valuations.
- B. "CI" Corner Influence Codes 1-5 for Type of Corner Intersection
- C. "CI" May Be Used in Conjuction With Any Adjustment
- D. "VA" Visiblity & Access Adj Reflects General Lack of Market Appeal Contrasted to Other Sites in a NBHD (Generally Due a Site's Location or Accessibility Within the Nbhd)

Examples of Other Common 'Influence Factors' By Land Segment

ECON	Economic	User Defined *
FUNC	Functional	User Defined *
OTH	Other (Describe)	User Defined *
PHYS	Physical Limitations	User Defined *
TOPO	Topography	User Defined *
FQFL	Frequent Flooding	User Defined *
RSTR	Restrictive or NonConforming	User Defined *
ADJ	Misc Adjustment (Describe)	User Defined *
SCM	Comp Sale/Mkt App Adj	User Defined *
SOS	Sale of Subject Adj	User Defined *
ESMT	Encumbrance Esmt P/L Transmission Ln	User Defined *

^{* &#}x27;User Defined' — Appraiser Must State Reason for Adjustment in 'Description' Field in Type Adjustment

Note: Other Factors Should be Applied to Land Segments on an Individual Basis, Such as, Limited Only to the Area

Directly Effected by the Physical Limitation (ie. Flood Plain, Easement or Restriction)

Barn Listing Codes

	Y pc (if Possible could we have	e have diff types in the Matrix)			
Type Method	od Class	\$/Unit (BaseValue)			
402	AB1	25 5.4			
402 S	AB2	10.13			
402 S	FB1	21.27			
402 S	FB2	16.10			
402 S	FB3	12.86			
402 S	FB4	14.54			
440 S	FBS	18,36			
440 S	FB6	12.44			
440 S	FB7	9.70			
402 S	FB8	24.14			
440 S	FBL	50% of Attached Unit Value (the Previous Entry)			
elius - Is it p	ossible to mix	Cornelius - Is it possible to mix "TYPES" as shown above and if so can they be duped like below?			
460 R	FB1	21.27 Also can we do a look up table to use different Depr?	Sub Clas	Sub Class Factors	
460 R	FB2	16.10	0/ +:/-:.0/	510000	
460 R	FB6	12.44	(Quality/Cost Modiffiers)	st Modifiie	rs)
461 R	FB1	21.27	Qual/Desc	Code	Factor
461 R	FB2	16.10			
461 R	FB6	12.44	Exc Plus	* *	3.10
			Excellent	0X	2.50
Where:			Exc Minus	×	2.10
402 = Barn	AB1 = Ag B	AB1 = Ag Bank Barn or Dairy Parlor/Barn	V Gd Plus	A+	1.67
440 = Shed	AB2 = Ag Flat Barn	at Barn	V Gd	AO	1.55
460 = Mtl Bldg		FB1 = Farm Bldg Metal Frame of Light Comm Construction (On or Near Professional	V Gd Minus	A-	1.45
461 = Work Shop		Quailty & Workmanship some Name Brand Manfacturors Butler Mesco Mueller)	Good Plus	8+	1.35
	FB2 = Frm	FB2 = Frm Bldg Farm/Ranch Construction (Lighter Frame - Some Home Built)	Good	80	1.55
R = Residential		FB3 = Frm Bldg Wd Frame of farm/ranch construction	Good Minus	-8	117
S = Shed/FarmBldg		FB4 = Farm Bldg Slant Wall or Quonset Style Construction	Avg Plus	ţ	108
	FB5 = Pole	rB5 = Pole (Mtl or Wd) Frame Construction Horse or Cattle Stalls /w closed	Avg	00	1.00
	STORE - Polo	storages (includes specialty occupancies Hog & Sheep Sheds)	Avg Minus	ٺ	0.92
	rbo = Pole	rbo = Pole Frame (Miti or Wood) Constr. Farm/Ranch Utilitarian Bldgs for many occupancies	Fair Plus	÷	20:0
	ER7 - Minimum	(includes specialty occupancies Turkey & Poultry Barns/Sheds)	Fair E	2	0.00
	TINI - CO.	main Fore FI Construction Light Sheds of Shelters - Little of no Finish	Fair Minus	2 6	0.70
	FBI = 1 Aan to	FBI = Lean+o	low Phis	ם ב	0.70
	Aronacaka		200	+ !	0.60
	Arenas sho	Arenas should be classed as FB2 or FB6 Depending on Contstruction Type & Finish	MOT	EO	0.50

Barn Listing Codes (pg 2)

Sides			Descr		Code	Factor	"Improvement Detail Attribute" in PACS	科
(Codo)	% of Base	"Cotodiana Data International		0.2		00 001	018.00	
(anon	(ractor)	Improvement Detail Att	Sup	20. 5		102.41	02Sup Superior	
4	1.00	04 Closed- 4 Walls	Eco		3	98.63	03Eco Economy	_
3	0.87	03 Open 1 Side	None	ne	0	97.18	04Non None	
2	0.75	02 Open 2 Sides						
н с	0.60	01 Open 1 Side						
								1
			Descr	Code	Factor	- Plumb	LIFIUMBING Plumbing Cost Adjustment as a Percent (Factor) Descr. Code Factor "Improvement Detail Attribute" in PACS **	ctor)
			Ave	,-	100.00	00	01Avg Average	
Floor Co.	09 Flooring Floor Cost Adjustment	as a Percent (Factor)	Sup Eco	3 5	102.41	02.41 98.39	OZSup Superior O3Eco Economy	
Factor	"Improvem	"Improvement Detail Attribute" in PACS	None	0	96	96.78	04Non None	
100.00 91.67 83.33 75.00	09Cnc Concrete 17Prl Partial Cor 16Asp Asphalt 13Drt Dirt	09Cnc Concrete 17Prl Partial Conc Floor Barn/Shed 16Asp Asphalt 13Drt Dirt	×.					
]					7

Barn Listing Codes (pg 3)

all Ht Ad	ij (Key Ht ir	r Features)				
Feet	Sq Ft					
(Height)	Mult.					
5	0.887					
6	0.914					
7	0.943					
8	0.963					
9	0.981					
10	1.000	(Base)				
11	1.019	(/				
12	1.038					
13	1.058					
14	1.077					
15	1.102					
16	1.115					
17	1.138					
18	1.154					
19	1.177					
20	1.192					
21	1.216					
22	1.231		Sub Class F	actors	10.001:40.100-4	A 4 1:5:
23	1.255		Sub Class I	actors	(Quality/Cost I	vioaifiiers
24	1.269					
25	1.300		Qual/Desc	<u>Code</u>	Factor	
26	1.321		F Bl	22		
27	1.335		Exc Plus	X+	3.10	
28	1.346		Excellent	X0	2.50	
29	1.375		Exc Minus	X-	2.10	
30	1.399		V Gd Plus	A+	1.67	
32	1.423		V Gd	AO	1.55	
34	1.472		V Gd Minus Good Plus	A-	1.45	
36	1.500		Good	B+	1.35	
				BO	1.26	
			Good Minus Avg Plus	B-	1.17	
			Avg	C+	1.08	
			Avg Minus	CO C-	1.00	
			Fair Plus		0.92	
			Fair E	D+ DO	0.85	
			Fair Minus	D-	0.78	
			Low Plus	E+	0.70 0.60	
			Low	EO EO	0.50	
			Low Minus	E-	0.40	

Barn Listing Codes (pg 4)

Index to Depreciation by Building Class(Class) by Quality of Construction (Sub Class)

			Typical	life Expac	tancy by	Building	Typical Life Expectancy by Building Class (Depreciation Table by Ouglity)	notion	Cable by C	Adjent		
SubClass	Sub CI		no.df.	2	for formal	Billing	riass (pep	ecianon	able by &	namr)		
Qual/Desc	Code	AB1	AB2	FB1	FB2	FB3	FB4	FB5	FB6	FB7	FB8	FBL *
												Ī
Exc Plus	*	30	30	30	30	25	30	30	30	25	30	30
Excellent	0X	30	30	30	30	25	30	30	30	25	30	30
Exc Minus	×	30	30	30	30	25	30	30	30	25	30	30
V Gd Plus	A +	30	30	30	30	25	30	25	25	20	30	25
V Gd	AO	30	30	30	30	25	30	25	25	20	30	25
V Gd Minus	A-	30	30	30	30	25	30	25	25	20	30	25
Good Plus	8+	30	25	25	25	25	25	25	25	20	30	20
Good	80	30	25	25	25	25	25	25	25	20	30	20
Good Minus	В-	30	25	25	25	25	25	25	25	20	30	20
Avg Plus	ţ	25	20	25	25	20	25	20	20	15	25	15
Avg	9	25	20	25	25	20	25	20	20	15	25	15
Avg Minus	ن	25	20	25	25	20	25	20	20	15	25	15
Fair Plus	+0	20	15	20	20	15	20	15	15	10	20	10
Fair E	00	20	15	20	20	15	20	15	15	10	20	10
Fair Minus	۵	20	15	20	20	15	20	15	15	10	20	10
Low Plus	Ė+	10	10	20	15	10	20	15	15	10	15	10
Low	EO	10	10	20	15	10	20	15	15	10	15	10
Low Minus	ф	10	10	20	15	10	20	15	15	10	15	10

* FBL "Lean To" if Possible is 50% of previous building entry, Its depreciation if possible would be like "MAD"

Thus, if a Lean To is attached to a AB1 its RCN would be 50% of AB1 and its deprciation would be equal to AB1 depreciation.

Barn Listing Codes (pg 5)

Normal Depreciation Tables -- Farm Buildings 2010 to _____

Effective	30	25	20	15	10
Age	as a P	ercent Good -			10
1	99	99	99	99	99
2	97	97	95	93	92
3	94	94	89	86	83
4	90	90	84	78	72
5	86	85	78	71	65
6	83	81	73	64	58
7	80	77	68	58	51
8	76	74	63	53	44
9	73	70	58	48	37
10	70	67	54	43	30
11	68	64	50	39	29
12	66	61	46	36	28
13	64	59	43	32	26
14	62	56	40	30	24
15	60	52	37	27	22
16	58	48	35	25	20
17	56	44	32	25	
18	54	40	30	24	
19	51	36	28	24	
20	47	32	27	23	
21	43	29	25	23	
22	40	27	24	22	
23	37	25	23	22	
24	34	23	22	21	
25	31	21	21	21	
26	28	20	20	20	
27	25				
28	23				
29	22				
30	21				
31	21				
32	20				
33					

Residential & Duplex Code Sheet

Туре	Meth	od Class	Description	% of Base (if Applicable)	
Re	sidentia	I Base Stuct	ture Codes for 2009		
MA1	R	"Class" **		Page	
MA.2	R	11SEC	2nd FI Struc Code 11	Base	
MA3	R	11THI	3rd Fl Struc Code 11	95.0%	
MA4	R	11FOU	4th FI Struc Code 11	90.0%	
MA5	R	11FIF	5th Fl Struc Code 11	90.0%	
MA91	R	11HAL	1/2 Story Struc Code 11 Res	90.0% Feature Value Codes for 2 65.0% 10 Htg/Coolx 01 HV	
MA92	R	11ATT	Attic Struc Code 11 Res	3.000	
MA93	R	11FIN	Finished Bsmt Struc Code 11	30.0% 32 Fireplace EL SU	
MA94	R	11UNF	Unfinished Bsmt Struc Code 11		d'I Fixture
MA1	R	"Class" **	1st FI Struc Code 12 Duplex	40.0% 05 Exterior Wall 05 St	one Veneer
MA2	R	12SEC		Base	
MA3	R	123EC	2nd FI Struc Code 12 Duplex	90.0%	
			3rd Fl Struc Code 12 Duplex	87.0%	
MA4	R	12FOU	4th Fl Struc Code 12	87.0%	
MA5	R	12FIF	5th Fl Struc Code 12	87.0%	
1A91	R	12HAL	1/2 Story Struc Code 12	65.0%	
MA92 -	R	12ATT	Attic Struc Code 12	30.0%	
1A93 1A94	R	12FIN	Finished Bsmt Struc Code 12	60.0%	
1A34	R	12UNF	Unfinished Bsmt Struc Code 12	40.0%	
ь.	1		for the same		
			des for 2009		
11	R	PO	Open Porch (011 012 013 016)	25.0%	
21	R	PCF	Closed Finished Porch (021026)	55.0%	
21	R	PCU	Closed Unf Porch (021 022 026)	45.0%	
31	R	GRD ***	Det Garage - Res (031 032 033)	60.0%	
41 51	R	GRA	Att Garage - Res (041 042 043)	50.0%	
61	R R	CPD ***	Carport Detached (051 052 053)	20.0%	
111	R	CPA	Carport Attached (061 062 063)	20.0%	
112	R	RCON	Res Concrete Drive	Scheduled	
113	R	ER2	Res Asphalt Drive	Scheduled	
13	R	ER3	Res Elevator 2 Stop	Scheduled	
113	R	ER4	Res Elevator 3 Stop	Scheduled	
47	R	RS1	Res Elevator 4 Stop Utility Bldg-Frame	Scheduled	
47	R	RS2	Utility Bldg-Metal	Scheduled	
47	R	RS3	Utility Bldg-MTL/STN	Scheduled	
52	R	T1	Inferior Terrace	Scheduled	
52	R	T2	Avg Terrace	Scheduled	
52	R	T3	Good Terrace	Scheduled	
66	R	KE \$100K		Scheduled	
21	R	BATHI	Inferior Bathroom		
22	R	BATHA	Average Bathroom	Scheduled	
23	R	BATHS	Superior Bathroom	Scheduled	
31 -	R	BLTNI	Inferior Built-Ins (Do Not Use)	Scheduled	
32	R	BLTNA	Average Built-Ins (Do Not Use)	Scheduled	
33	R	BLTNS	Superior Built-Ins (Do Not Use)	Scheduled	
41	R	HFBATHI	Inferior Half Bath	Scheduled	
42	R	HFBATHA	Average Half Bath	Scheduled	
43	R	HFBATHS	Superior Half Bath	Scheduled	
15	R	MP1	Single Space Mfg Home Site	Scheduled Scheduled	
Other	0-1		d Codes "SPEC" "EXCP" /w most to be		

Residential Mobile Home Code Sheet

Type	Metho	d Class	Description			tive Codes 2009	
. 3 pc				LIEX	J /0 U1 E	Base (if Applicable)	
			Codes - Mfg Housing				
MA1	M	DLX	Lux Dbl MH	30 yr	Base-So	cheduled	
MA1	M	DLXM	Lux M Dbl MH	30 yr	*		
MA1	M	DLXMM	Lux M- Dbl MH	30 yr	16		
MA1	M	DLXP	Lux P Dbl MH	30 yr	11		
MA1	M	DLXPP	Lux P+ Dbl MH	30 yr	/2 38		
MA1	M	DDX	Delx Dbl MH	35 уг	9		
MA1	M	DDXM -	Delx M Dbi MH	35 yr	**		
MA1	M	DDXMM	Delx M- Dbl MH	35 yr	Base-So	heduled	
MA1	M	DDXP	Delx P Dbl MH	35 yr	111	Where 1st Character = D or	S
MA1	M	DDXPP	Delx P+ Dbl MH	35 yr	18	for Double or Sing	le Wide
MA1	M	DST	Std Dbl MH	35 yr	16		
MA1	M	DSTM	Std Minus Dbl MH	35 yr	18	Where 2nd & 3rd Character	= LX = Luxury,
MA1	M	DSTMM	Std M- Dbl MH	35 yr	Base-Sc	DX = Deluxe, ST =	Standard or
MA1	M	DSTP	Std P Dbl MH	35 yr		EC = Economy Qua	
MA1	M	DSTPP	Std P+ Dbl MH	35 yr	16		
MA1	M	DEC	Eco Dbl MH	35 yr	10	Where 4th & 5th Character =	M = Minus
MA1	M	DECM	Eco Minus Dbl MH	35 yr	16	MM = Minus Minus	
MA1	M	DECMM	Eco M- Dbl MH	No. of the last of		700000000000000000000000000000000000000	and
MA1	M	DECP	Eco Plus Dbl MH	35 yr		PP = Plus Plus	
MA1	M	DECPP		35 уг	Base-Scl	neduled	
MA1	M	SLX	Eco Plus+ Dbl MH	35 yr			
MA1		SLXM	Lux Sngl MH	35 yr			
MA1	M		Lux Minus Sngl MH	35 yr	963		
MA1	M	SLXMM	Lux M- Sngl MH	35 yr	**		
MA1	M	SLXP.	Lux Plus Sng MH	35 yr			
MA1	M	SLXPP	Lux Plus+ SngMH	35 yr			
MA1	M	SDX	Delx Sngle MH	30 yr	н		
	M	SDXM	Dexl Minus Sngl MH	30 yr			
MA1	M	SDXMM	Delx M- Sngl MH	30 yr			
MA1	M	SDXP	Delx Plus Sngl MH	30 yr	п		
MA1	M	SDXPP	Delx Plus+ Sng MH	30 yr			
MA1 MA1	M	SST	Std Single MH	30 yr	Base-Sch	eduled	
MA1	M	SSTM	Std Minus Sngl MH	30 yr			
MA1	M	SSTMM	Std Minus- Sng MH	30 yr	"		
MA1	M	SSTP	Std Plus Sngl MH	30 yr		12	
MA1	M	SSTPP	Std Plus+ Sngl MH	30 yr			
		SEC	Eco Single MH	30 yr	"		
MA1	M	SECM	Eco Minus Sng MH	30 yr			
MA1	M	SECMM	Eco M- Sngl MH	30 yr			
MA1	M	SECP	Eco Plus Sngl MH	30 yr		Say year	
MA1 MA1	M	SECPP	Eco Plus+ Sngl MH		Base-Sch	eduled	
WA I	M	AFR	Attached Frame 1st FI MH	n/a	75.0%		
	Manufact	anad Hans	ina Additives				
-							
810	M	CP	Carport /w Floor MH		25,0%		
810	M	CP2	Carport Dirt Floor MH		20.0%		
810	M	GA1	Garage Res Type MH		55.0%		
810	M	GA2	Garage Mtl Roof Sdx MH		50.0%		
810	M	PA	Patio Alum Cov Slab MH		25.0%		
810	M	PE	Encl Po Wd Mtl Glass Addn	MH	50.0%		
810	M	PL	Patio Slab Only MH		10.0%		
810	M	PO	Open Porch		30.0%		
810	M	PS	Screen Porch MH		35.0%		
810	M	RASP	Res Asphalt Drive		3.5%		
810	M	RCON	Res Concrete Drive		7.0%		
810	M	RS1	Utility Bldg-Frame		45.0%		
810	M	RS2	Utility Bldg-Metal		40.0%		
810	M	-	Utility Bldg-MTL/STN		50.0%		
240	M						
810	(VI	VVD	Wood Deck MH		20.0%		

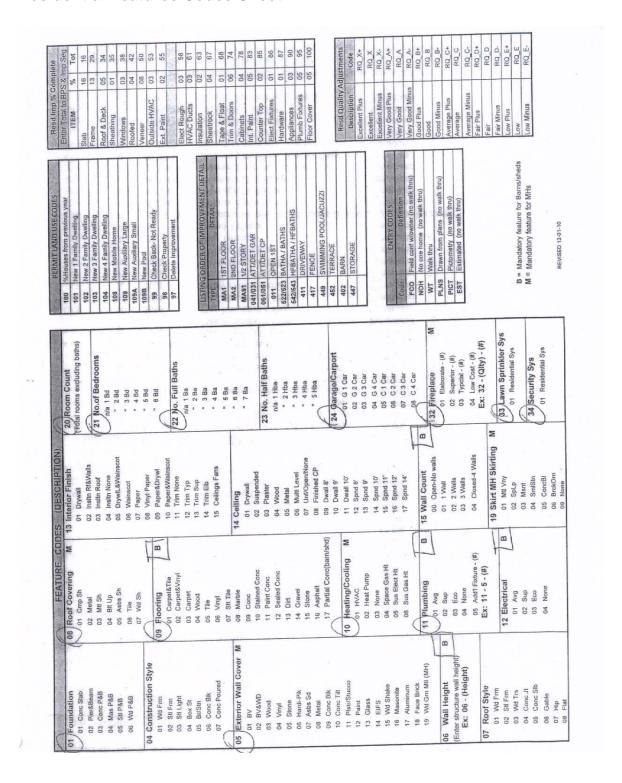
Residential Residence & Barn Listing Sheet

Type	METHOD		Class Code	FEATURES	ADD'I INFO
MAI	œ	1st Floor	**SEE CLASSING CHART	**SEE FEATURE CHART	
MA2	œ	2nd Floor	11SEC		
041/031	æ	ATT/DET GAR	GRA/GRD		
061/051	R	ATT/DET CP	CPA/CPD		
011	œ	OPEN PORCH 1ST	PO		
012	æ	OPEN PORCH 2ND	ЬО		
021	«	CLOSED FIN/UNFIN PORCH	PCF/PCU		
521/522/523	æ	INF/AVG/SUP BATH	ВАТНІ/ВАТНА/ВАТНЅ		
541/542/543	æ	INF/AVG/SUP HALF BATH	нғватні/нғватна/нғватнs		
411	×	CONC DRWAY	RCON		
412	æ	ASPHALT DRWAY	RASP		
413	œ	2 STOP/3 STOP/4 STOP ELEVATOR	ER2/ER3/ER4		**INDIT IN ABEA: 1
417	œ	FENCE CHAINLINK 4'	FCI		1 2000 111 10 1011
		FENCE CHAINLINK 6'	FC2		
	4	FENCE CHAINLINK 6' 3 Std BW	FC3		
		FENCE CHAINLINK 6'/w COILS/SLATS	FC4		
		FENCE METAL 5'-7'	FM1		
		FENCE WROUGHT IRON TYPICAL	FM2		
		FENCE WROUGHT IRON ELABORATE	FM3		
		FENCE WOOD 5'-6'	FW1		
		MASONRY WALL TYPICAL	MW1		
		MASONRY WALL GOOD	MW2		
		MASONRY WALL ELABORATE	MW3		**INPLIT IN AREA DERINAETER OF SENCE
449		DOOL GUNITE AUNY JOON PEET DE MESONGER PRINTED STORY		35-1 01 DIVING BOARD, 02 SLIDE, 03 WATERFALL/WATER FEATURE, 04 DIVING/SLIDE COMBO, 05 DIVING/WATER COMBO, 06 DIVING/SLIDE/WATER COMBO, 07 SLIDE/WATER	
		SON WHISI BOOK STOLE STOLE STOLE STORE STO	RP1/RP2/RP3/RP4	COMBO, 08 ADD'L FEATURE]	**INPUT IN AREA THE AREA OF THE POOL
442	æ	PPL)	FW2/5W3/1WS	36- [01 ATTACHED TO POOL; USES COMMON	
		POOLHSE FRAME/POOLHSE MTL/POOLHSE STONE-MTL/	2007	FILLER, 02 DE ACHED FROM POOL	TINPUL IN AREA: 1
467	R	POOLHSE BRK-MTL	RS1/RS2/RS3/RS4	10.11	
439	æ	DECK TYP/GOOD/ELAB	T5/T6/T7		
452	æ	TERRACE INF/AVG/GOOD/ELAB	T1/T2/T3/T4		
447	×	STG FRAME/STG MTL/STG STONE-MTL/STG BRK-MTL	RS1/RS2/RS3/RS4		
421	U	GREENHOUSE HOOP/ECON/AVG/GOOD	GH1/GH2/GH3/GH4		
					**MANUALLY APPRAISE IMP DETAIL IN
416	æ	STORM SHELTER	MS100K		THE BASE YEAR BY USING 'ADJ FACTOR'
					PERCENIAGE

Residential Residence & Barn Listing Sheet (pg 2)

Туре	МЕТНОВ	Detail Class Code	FEATURES	ADD'L INFO
	SP	OUTDOOR KITCHEN KE_100K GAZEBO EXCP		**MANUALLY APPRAISE IMP DETAIL IN THE BASE YEAR BY USING 'ADJ FACTOR' PERCENTAGE **\$25,50EF
		BARN SCHEDULE	ULE	- Sin Louis
TYPE	METHOD		SUBCLASS	
(n n	AB1 - AG BANK BARN OR DAIRY PARLOR/BARN AB2 - AG FLAT BARN	A+,AO,A-THROUG	06-WALL HEIGHT
		FB1 - FARM BLDG MTL FRM (ON OR NEAR PROF QLTY/BUTLER, WILSON, MESCO, MUELLER) FB2 - FARM BLDG FRM (LIGHTER FRAME-SOME HOME BUILT) FB3 - FARM BLDG WD FRAME FB4 - FARM BLDG SLANT WALL/QUONSET STYLE FB8 - HORSE STABLES (NO ESTATE OR HIGH VALUE STABLES)	TYPICAL IS CO ADJUST BASED ON CONDITION FROM CO	11-PLUMBING TYPE 12-ELECTRICAL TYPE 15-NUMBER OF WALLS
404 (CANOPY)	82	FBS - POLE (MTL OR WD) FRAME HORSE OR CATTLE STALLS W/CLOSED STG FB6 - POLE (MTL OR WD) FRAME FARM/RANCH UTLITARIAN BLDGS (TURKEY/POULTRY FB7 - MINIMUM POLE FRAME LIGHT SHED OR SHELTER W/LITTLE OR NO FINISH FBL - LEAN TO	ULTRY	SAME
440 (SHED)	8	FBS - POLE (MTL OR WD) FRAME HORSE OR CATTLE STALLS WITCH DEED SEED	2	
		FB6 - POLE (MTL OR WD) FRAME FARM/RANCH UTLITARIAN BLDGS (TURKEY/POULTRY FB7 - MINIMUM POLE FRAME LIGHT SHED OR SHELTER W/LITTLE OR NO FINISH FBL - LEAN TO	JLTRY	SAME
	8	FB1 - FARM BLDG MTL FRM (ON OR NEAR PROF QLTY/BUTLER, WILSON, MESCO, MUELLER)		
	•	FB2 - FARM BLDG FRM (LIGHTER FRAME-SOME HOME BUILT) FB6 - POLE (MTL OR WD) FRAME FARM/RANCH UTLITARIAN BLDGS (TURKEY/POULTRY	SAME	SAME
(WORKSHOP)	89	FB1 - FARM BLDG MTL FRM (ON OR NEAR PROF QLTY/BUTLER, WILSON, MESCO, MUELLER)		
		FB2 - FARM BLDG FRM (LIGHTER FRAME-SOME HOME BUILT) FB6 - POLE (MTL OR WD) FRAME FARM/RANCH UTLITARIAN BI DGS (TI IBKEV JOHN)	SAME	SAME

Residential Features Codes Sheet



Clerical Outline-Periodic Re-Inspection Procedures

CLERICAL OUTLINE - PERIODIC RE-INSPECTION PROCEDURES September 27, 2012

First phase *

Revised 9-27-2012

- Assigned ISD Commercial appr preparations
 - -obtain Wendy Bennet cards from Ben/Linda/Jamey for the school district
 - -Pat/appraiser print out C2, B1, F1, F2, F3, F4, J1, J2, J3, J4, J5, J6, J7 & J8 in geo order
 - -Pat/appraiser prints out commercial nbhd "900's" without commercial state code, generally includes cat. E&D & some C1 & A1 in geo order
 - -forward to clerical A) W. Bennett & B) soft card
- 3 way match clerical preparation
 - -for ISD pull hard cards from file cabinet & pull the ISD BPS file
 - -collate by geo the four (4) source docs in this manner:
 - A. Place soft cards from appr in geo order (ST CD printout & NB "900's" print out). Note = this step defines scope of work (total parcel count in ISD from parcel 1 to 9999)
 - B. Place/file/attach Wendy Bennett cards with full ISD geo cards in "a" above
 - C. Place/file/attach hard cards from file cabinet with soft cards
 - D. Then place BPS hard cards & related BPS paper work with soft cards. Note=BPS materials must not be misplaced/or mislaid. Because any BPS not completed by clerical or appraiser in the next step must be completed in field & all existing BPS materials & this info must be returned to BPS folder.
 - E. Any unmatched hard cards require additional research. Generally, they can be corrected & placed in GEO order after GEO number has been corrected to new acct no. Or this is a
 - F. If a hard card remains unmatched after 'step E', submit it to a commercial appraiser for research and /or completion.
- Clerical re-inspection procedures
 - -after substantial completion of 'step II'
 - A. Land features
 - B. Improvement features for all substantial 1st floor main areas
 - C. Sketches completed, verified & keyed

-sketching, land & imp. Features of freestanding or single type multi-tenant building could generally be completed by clerical & forwarded to appraiser for review and completion

-on complicated properties & vacant land, land features are to be completed and any imp features & sketching may be completed to a point; then appraiser may be required to complete. Clerical should work closely with appraisers on this as it is an art (somewhat subjective, not a science). "Don't be afraid to ask dumb questions, they are easier to handle than dumb mistakes"

-clerical will forward updated/completed soft card/Wendy card/BPS materials & hard card to appraiser (note: do not separate the 2 way, 3 way or 4 way match. Record must stay intact (together for completeness)

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Clerical Outline-Periodic Re-Inspection Procedures (pg 2)

CLERICAL OUTLINE - PERIODIC RE-INSPECTION PROCEDURES September 27, 2012

- Periodic re-inspection procedures for appraiser
 - -from records submitted by clerical, appraiser will correct & update or otherwise make provisions to complete inspection per IAAO & MCAD periodic re-inspection procedures such as nbhd, region, subset, sub market, property use, visibility, access, market region, nbhd/econ area property type, class on the PACS tabs identification, prop codes and income; complete imps, updates & corrections
 - Note: -appraiser should update & correct BPS file at this time. Thereby, completing as many BPS records as reasonable possible.
- Appraiser will forward completed/updated soft & hard cards to clerical -appraiser should make provisions that last appr, last appr date, land appraiser & value appraiser be updated as required by clerical on personally – mutually agreed. -clerical & appraiser completes 'step iv' hard card is to be scanned & stamped scanned (note: scanning is to be done last in order that appraiser updates to hard card may be captured)
- This is a draft on 1-10-12 & steps to I, II, III, IV, V, & will be revised & updated to make them more concise & efficient, (especially in regards to step V.)

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