SHRP 2 R15C - Utility Conflict Database Data Model
Texas A&M Transportation Institute, March 2014

SPATIAL ENTITIES

COMMUNICATION POINT
- UTILITY FACILITY ID
- OBJECT ID
- SHAPE
- UTILITY FACILITY FEATURE CLASS ID

COMMUNICATION LINE
- UTILITY FACILITY ID
- OBJECT ID
- SHAPE
- UTILITY FACILITY FEATURE CLASS ID

WATER POINT
- UTILITY FACILITY ID
- OBJECT ID
- SHAPE
- UTILITY FACILITY FEATURE CLASS ID

WATER LINE
- UTILITY FACILITY ID
- OBJECT ID
- SHAPE
- UTILITY FACILITY FEATURE CLASS ID

Note: Shown here is just one of many options to implement spatial entities, using the example of water and communications utilities. Other alternatives would be to create one spatial entity for each UTILITY FACILITY FEATURE CLASS (which would represent the upper limit of the number of spatial entities) or one spatial entity for each point, line, and polygon feature (which would represent the lower limit of the number of spatial entities).

UTILITY FACILITY

UTILITY FACILITY DETAIL
- UTILITY FACILITY ID (FK)
- UTILITY FACILITY AGE MEASUREMENT
- UTILITY FACILITY BARREL DIAMETER MEASUREMENT
- UTILITY FACILITY BARREL HEIGHT MEASUREMENT
- UTILITY FACILITY BOX HEIGHT MEASUREMENT
- UTILITY FACILITY BOX LENGTH MEASUREMENT
- UTILITY FACILITY BOX WIDTH MEASUREMENT
- UTILITY FACILITY CAPACITY MEASUREMENT
- UTILITY FACILITY DEPTH MEASUREMENT
- UTILITY FACILITY DIAMETER MEASUREMENT
- UTILITY FACILITY DUCT MATERIAL ID,UTILITY FACILITY MATERIAL ID (FK)
- UTILITY FACILITY DUCT QUANTITY
- UTILITY FACILITY DUCT SIZE MEASUREMENT
- UTILITY FACILITY ENCASEMENT MATERIAL ID,UTILITY FACILITY MATERIAL ID (FK)
- UTILITY FACILITY FOUNDATION DEPTH MEASUREMENT
- UTILITY FACILITY HEIGHT MEASUREMENT
- UTILITY FACILITY INNERDUCT QUANTITY
- UTILITY FACILITY LENGTH MEASUREMENT
- UTILITY FACILITY MATERIAL ID (FK)
- UTILITY FACILITY QUANTITY
- UTILITY FACILITY RATED VOLTAGE TEXT
- UTILITY FACILITY SIZE MEASUREMENT
- UTILITY FACILITY TRACER WIRE FLAG
- UTILITY FACILITY WARNING TAPE FLAG
- UTILITY FACILITY WIDTH MEASUREMENT
- UTILITY FACILITY FOUNDATION WIDTH MEASUREMENT
- UTILITY FACILITY CATHODIC PROTECTION FLAG

UTILITY FACILITY OFFSET
- UTILITY FACILITY OFFSET ID
- UFO START STATION MEASUREMENT
- UFO END STATION MEASUREMENT
- UFO START OFFSET MEASUREMENT
- UFO END OFFSET MEASUREMENT
- UFO REFERENCE TYPE
- UTILITY FACILITY ID (FK)

UTILITY INVESTIGATION QUALITY LEVEL
- UTILITY INVESTIGATION QUALITY LEVEL ID
- UTILITY INVESTIGATION QUALITY LEVEL NAME
- UTILITY INVESTIGATION QUALITY LEVEL DESCRIPTION

UTILITY FACILITY
- UTILITY FACILITY ID
- UTILITY FACILITY DESCRIPTION
- ALIGNMENT REFERENCE ID (FK)
- COMPANY ID (FK)
- HORIZONTAL POSITIONAL ACCURACY
- HORIZONTAL SPATIAL REFERENCE ID (FK)
- UTILITY FACILITY FEATURE CLASS ID (FK)
- UTILITY FACILITY LOCATION TYPE ID (FK)
- UTILITY FACILITY OPERATION TYPE ID (FK)
- VERTICAL POSITIONAL ACCURACY
- VERTICAL SPATIAL REFERENCE ID (FK)
- UTILITY INVESTIGATION QUALITY LEVEL ID (FK)

UTILITY FACILITY OPERATION TYPE
- UTILITY FACILITY OPERATION TYPE ID
- UTILITY FACILITY OPERATION TYPE NAME
- UTILITY FACILITY OPERATION TYPE DESCRIPTION

ALIGNMENT REFERENCE
- ALIGNMENT REFERENCE ID
- ALIGNMENT REFERENCE NAME
- ALIGNMENT REFERENCE DESCRIPTION

UTILITY FACILITY MATERIAL
- UTILITY FACILITY MATERIAL ID
- UTILITY FACILITY MATERIAL NAME
- UTILITY FACILITY MATERIAL ACRONYM TEXT
- UTILITY FACILITY MATERIAL DESCRIPTION

UTILITY FACILITY FEATURE CLASS
- UTILITY FACILITY FEATURE CLASS ID
- UTILITY FACILITY FEATURE CLASS NUMBER
- UTILITY FACILITY FEATURE CLASS NAME
- UTILITY FACILITY FEATURE CLASS DESCRIPTION
- CRITICAL LEVEL FLAG
- FEATURE CLASS SHAPE ID (FK)
- FEATURE CLASS TYPE ID (FK)
- DESIGN LIBRARY ID (FK)
- LINE WEIGHT ID (FK)
- LINE COLOR ID (FK)
- LINE STYLE ID (FK)

UTILITY FACILITY LOCATION TYPE
- UTILITY FACILITY LOCATION TYPE ID
- UTILITY FACILITY LOCATION TYPE NAME
- UFL TYPE ACRONYM TEXT
- UTILITY FACILITY LOCATION TYPE DESCRIPTION

FEATURE CLASS SHAPE
- FEATURE CLASS SHAPE ID
- FEATURE CLASS SHAPE NAME

FEATURE CLASS TYPE
- FEATURE CLASS TYPE ID
- FEATURE CLASS TYPE NAME

DESIGN LIBRARY
- DESIGN LIBRARY ID
- DESIGN LIBRARY NAME
- DESIGN LIBRARY YEAR

LINE STYLE
- LINE STYLE ID
- LINE STYLE NAME
- DISCIPLINE NAME
- LINE STYLE DESCRIPTION
- RESOURCE FILE NAME
- STANDARD LINE STYLE FLAG

LINE WEIGHT
- LINE WEIGHT ID
- THICKNESS MEASUREMENT

LINE COLOR
- LINE COLOR ID
- RED VALUE NUMBER
- GREEN VALUE NUMBER
- BLUE VALUE NUMBER
- CUSTOMIZED COLOR FLAG

FEATURE CLASS ATTRIBUTE
- UTILITY FACILITY FEATURE CLASS ID (FK)
- ATTRIBUTE ID (FK)
- ATTRIBUTE ORDER NUMBER
- ATTRIBUTE LABEL TEXT

ATTRIBUTE
- ATTRIBUTE ID
- ATTRIBUTE NAME
- ATTRIBUTE COLUMN NAME
- ATTRIBUTE DATA TYPE

HORIZONTAL SPATIAL REFERENCE
- HORIZONTAL SPATIAL REFERENCE ID
- HORIZONTAL SPATIAL REFERENCE NAME
- HORIZONTAL SPATIAL REFERENCE DESCRIPTION

VERTICAL SPATIAL REFERENCE
- VERTICAL SPATIAL REFERENCE ID
- VERTICAL SPATIAL REFERENCE NAME
- VERTICAL SPATIAL REFERENCE DESCRIPTION

UTILITY CONFLICT

UTILITY CONFLICT ADJUSTMENT COST TYPE
- UC ADJUSTMENT COST TYPE ID
- UC ADJUSTMENT COST TYPE NAME

UTILITY CONFLICT ADJUSTMENT COST
- UTILITY CONFLICT ADJUSTMENT COST ID
- UTILITY CONFLICT ADJUSTMENT COST AMOUNT
- UTILITY CONFLICT EVENT NUMBER (FK)
- UC ADJUSTMENT COST TYPE ID (FK)
- UTILITY CONFLICT ID (FK)

RIGHT OF WAY PARCEL
- RIGHT OF WAY PARCEL ID
- ROW PARCEL REQUIRED ACQUISITION DATE

UTILITY CONFLICT PARCEL
- RIGHT OF WAY PARCEL ID (FK)
- UTILITY CONFLICT ID (FK)

COMMENT
- COMMENT ID
- COMMENT TITLE TEXT
- COMMENT BODY TEXT
- COMMENT TIMESTAMP
- COMMENT REPLY ID
- UTILITY CONFLICT EVENT NUMBER (FK)
- UTILITY CONFLICT ID (FK)

UTILITY CONFLICT EVENT
- UTILITY CONFLICT EVENT NUMBER
- UTILITY CONFLICT ID (FK)
- UTILITY CONFLICT EVENT RECORD TIMESTAMP
- UTILITY CONFLICT EVENT DATE
- RESOLUTION RECOMMENDATION TEXT
- SYSTEM USER ID (FK)
- UTILITY CONFLICT EVENT TYPE ID (FK)
- UTILITY CONFLICT RESOLUTION STATUS ID (FK)
- UTILITY INVESTIGATION QUALITY LEVEL ID (FK)

UTILITY CONFLICT EVENT TYPE
- UTILITY CONFLICT EVENT TYPE ID
- UTILITY CONFLICT EVENT TYPE NAME
- UTILITY CONFLICT EVENT TYPE DESCRIPTION
- UC EVENT TYPE STATUS FLAG
- UC EVENT TYPE ORDER CODE

UTILITY CONFLICT RESOLUTION STATUS
- UTILITY CONFLICT RESOLUTION STATUS ID
- UTILITY CONFLICT RESOLUTION STATUS NAME
- UTILITY CONFLICT RESOLUTION STATUS DESCRIPTION

UTILITY CONFLICT ASSIGNMENT
- UTILITY CONFLICT ID (FK)
- SYSTEM USER ID (FK)
- ROLE ID (FK)

UTILITY CONFLICT
- UTILITY CONFLICT ID
- UTILITY CONFLICT NUMBER
- UTILITY CONFLICT DESCRIPTION
- UTILITY CONFLICT WORK DESCRIPTION
- UTILITY CONFLICT LOCATION DESCRIPTION
- UTILITY CONFLICT START STATION MEASUREMENT
- UTILITY CONFLICT START OFFSET MEASUREMENT
- UTILITY CONFLICT END STATION MEASUREMENT
- UTILITY CONFLICT END OFFSET MEASUREMENT
- UTILITY CONFLICT X COORDINATE MEASUREMENT
- UTILITY CONFLICT Y COORDINATE MEASUREMENT
- UTILITY CONFLICT LENGTH MEASUREMENT
- UTILITY CONFLICT RISK POTENTIAL
- UC APPROXIMATE RELOCATION DISTANCE MEASUREMENT
- UTILITY CONFLICT COMPANY NOTIFICATION FLAG
- UTILITY CONFLICT IMPACT FLAG
- UTILITY CONFLICT REIMBURSEABLE FLAG
- UC COORDINATION DURING CONSTRUCTION FLAG
- RESOLUTION RECOMMENDATION TEXT
- DOT PROJECT ID (FK)
- HORIZONTAL SPATIAL REFERENCE ID (FK)
- VERTICAL SPATIAL REFERENCE ID (FK)
- UA ID (FK)
- UTILITY INVESTIGATION QUALITY LEVEL ID (FK)
- UTILITY CONFLICT LOCATION TYPE ID (FK)
- UTILITY CONFLICT TYPE ID (FK)
- UTILITY CONFLICT SUBTYPE ID (FK)
- UTILITY FACILITY ID (FK)
- UITH ID (FK)

UAP EXCEPTION
- UAP EXCEPTION ID
- UAP EXCEPTION AMOUNT
- UAP EXCEPTION APPROVAL FLAG
- UAP EXCEPTION LIMITS FROM TEXT
- UAP EXCEPTION LIMITS TO TEXT
- UAP EXCEPTION REQUEST RECEIVE DATE
- UAP EXCEPTION REQUEST RESOLUTION DATE
- UAP EXCEPTION COMMENT
- UTILITY CONFLICT ID (FK)
- UAP EXCEPTION TYPE ID (FK)

UAP EXCEPTION TYPE
- UAP EXCEPTION TYPE ID
- UAP EXCEPTION TYPE NAME
- UAP EXCEPTION TYPE DESCRIPTION

UTILITY INVESTIGATION TEST HOLE
- UITH ID
- UITH NUMBER
- UITH DESCRIPTION
- UITH SURVEYING EQUIPMENT DESCRIPTION
- UITH STATION MEASUREMENT
- UITH OFFSET MEASUREMENT
- UITH X COORDINATE MEASUREMENT
- UITH Y COORDINATE MEASUREMENT
- UITH HORIZONTAL PRECISION MEASUREMENT
- UITH VERTICAL PRECISION MEASUREMENT
- UITH ELEVATION
- UITH RMSE MEASUREMENT
- UITH NUMBER OF SATELLITES QUANTITY
- UITH NUMBER OF MEASUREMENTS QUANTITY
- UITH POSITION DILUTION PRECISION QUANTITY
- ALIGNMENT REFERENCE ID (FK)
- HORIZONTAL SPATIAL REFERENCE ID (FK)
- SURFACE TYPE ID (FK)
- VERTICAL SPATIAL REFERENCE ID (FK)

SURFACE TYPE
- SURFACE TYPE ID
- SURFACE TYPE NAME
- SURFACE TYPE DESCRIPTION
- SURFACE TYPE ACRONYM TEXT

TEST HOLE UTILITY FACILITY
- UTILITY FACILITY ID (FK)
- UITH ID (FK)
- TH UTILITY FACILITY DEPTH MEASUREMENT

MEETING
- MEETING ID
- MEETING LOCATION
- UTILITY CONFLICT ID (FK)

UTILITY CONFLICT TYPE
- UTILITY CONFLICT TYPE ID
- UTILITY CONFLICT TYPE NAME
- UTILITY CONFLICT TYPE DESCRIPTION

UTILITY CONFLICT SUBTYPE
- UTILITY CONFLICT SUBTYPE ID
- UTILITY CONFLICT SUBTYPE NAME
- UTILITY CONFLICT SUBTYPE DESCRIPTION

UTILITY CONFLICT LOCATION TYPE
- UTILITY CONFLICT LOCATION TYPE ID
- UTILITY CONFLICT LOCATION TYPE NAME
- UCL TYPE LEGAL STATUS DESCRIPTION

UTILITY CONFLICT RESOLUTION ALTERNATIVE
- UC RESOLUTION ALTERNATIVE ID
- UC RESOLUTION ALTERNATIVE NUMBER
- UC RESOLUTION ALTERNATIVE DESCRIPTION
- UC RESOLUTION ALTERNATIVE ADVANTAGE TEXT
- UC RESOLUTION ALTERNATIVE DISADVANTAGE TEXT
- UC RESOLUTION ALTERNATIVE FEASIBILITY FLAG
- UC RESOLUTION ALTERNATIVE COMMENT
- UCR ALTERNATIVE RESPONSIBILITY ID (FK)
- UTILITY CONFLICT ID (FK)

UTILITY CONFLICT RESOLUTION ALTERNATIVE RESPONSIBILITY
- UCR ALTERNATIVE RESPONSIBILITY ID
- UCR ALTERNATIVE RESPONSIBILITY NAME
- UCR ALTERNATIVE RESPONSIBILITY CODE
- UCR ALTERNATIVE RESPONSIBILITY DESCRIPTION

APPLICATION SUPPORT

SELECTION UTILITY CONFLICT
- ACTION TYPE
- UTILITY CONFLICT ID

SELECTION UTILITY FACILITY OWNER
- ACTION TYPE
- COMPANY ID

SELECTION DOT PROJECT
- DOT PROJECT ID
- ACTION TYPE

SELECTION STATE
- STATE ID

SYSTEM SETTING
- SYSTEM SETTING ID
- SYSTEM SETTING NAME
- SYSTEM SETTING VALUE
- SYSTEM SETTING DESCRIPTION

UTILITY AGREEMENT

ESTIMATE
- ESTIMATE ID
- ESTIMATE COST AMOUNT
- ESTIMATE BETTERMENT FLAG
- ESTIMATE BETTERMENT RATIO NUMBER
- ESTIMATE DATE
- ACCOUNTING METHOD ID (FK)
- ESTIMATE TYPE ID (FK)
- PROJECT DEVELOPMENT PROCESS PHASE ID (FK)
- UA ID (FK)
- UTILITY CONFLICT ID (FK)
- UC RESOLUTION ALTERNATIVE ID (FK)

UTILITY AGREEMENT
- UA ID
- UA ALTERNATE NUMBER
- UTILITY AGREEMENT WORK STATEMENT TEXT
- UA STATE UTILITY CONTRACT FLAG
- UA UPPER LIMIT AMOUNT
- UA PAYMENT AUTHORIZATION FLAG
- UA AUDIT EXCEPTION AMOUNT
- UA OUTSTANDING BALANCE AMOUNT
- UA COMMENT TEXT
- UA CONTRACTING PROCEDURE TYPE CODE (FK)
- UA REIMBURSEMENT APPROACH ID (FK)
- UA UTILITY ADJUSTMENT TYPE ID (FK)
- DOCUMENT SET ID (FK)

UTILITY BILL
- UTILITY BILL ID
- UTILITY BILL AMOUNT
- UTILITY BILL PAYMENT AMOUNT
- UTILITY BILL APPROVED AMOUNT
- UTILITY BILL RECORD NUMBER
- UTILITY BILL TYPE ID (FK)
- UTILITY BILL COMMENT
- SYSTEM USER ID (FK)
- UA ID (FK)

UTILITY BILL TYPE
- UTILITY BILL TYPE ID
- UTILITY BILL TYPE NAME
- UTILITY BILL TYPE DESCRIPTION

UTILITY BILL DATE
- UTILITY BILL DATE ID
- BILL DATE
- UTILITY BILL ID (FK)
- UTILITY BILL DATE TYPE ID (FK)

UTILITY BILL DATE TYPE
- UTILITY BILL DATE TYPE ID
- UTILITY BILL DATE TYPE NAME

PROJECT DEVELOPMENT PROCESS PHASE
- PROJECT DEVELOPMENT PROCESS PHASE ID
- PROJECT DEVELOPMENT PROCESS PHASE NAME

ACCOUNTING METHOD
- ACCOUNTING METHOD ID
- ACCOUNTING METHOD NAME
- ACCOUNTING METHOD DESCRIPTION

ESTIMATE TYPE
- ESTIMATE TYPE ID
- ESTIMATE TYPE NAME
- ESTIMATE TYPE DESCRIPTION
- ESTIMATE TYPE TOTAL FLAG

UTILITY AGREEMENT DATE
- UTILITY AGREEMENT DATE ID
- UA DATE
- UA ID (FK)
- UA DATE TYPE ID (FK)

UTILITY AGREEMENT DATE TYPE
- UA DATE TYPE ID
- UA DATE TYPE NAME

UA CONTRACTING PROCEDURE TYPE
- UA CONTRACTING PROCEDURE TYPE CODE
- UA CONTRACTING PROCEDURE TYPE NAME
- UA CONTRACTING PROCEDURE TYPE DESCRIPTION

COMPOSITE ELIGIBILITY RATIO
- COMPOSITE ELIGIBILITY RATIO ID
- COMPOSITE ELIGIBILITY RATIO ADJUSTMENT PERCENT

ELIGIBILITY RATIO TYPE
- ELIGIBILITY RATIO TYPE ID
- ELIGIBILITY RATIO TYPE NAME
- ELIGIBILITY RATIO TYPE DESCRIPTION

ELIGIBILITY RATIO
- ELIGIBILITY RATIO ID
- ELIGIBILITY RATIO DATE
- ELIGIBILITY RATIO NONELIGIBILE OCCUPANCY MEASUREMENT
- ELIGIBILITY RATIO PERCENT
- ELIGIBILITY RATIO SHEET NUMBER
- COMPOSITE ELIGIBILITY RATIO ID (FK)
- ELIGIBILITY RATIO TYPE ID (FK)
- UA ID (FK)
- UNIT ID (FK)

UNIT
- UNIT ID
- UNIT NAME
- UNIT ABBREVIATION

PROPERTY RIGHT CLASS
- PROPERTY RIGHT CLASS ID
- PROPERTY RIGHT CLASS NAME
- PROPERTY RIGHT CLASS DESCRIPTION

PROPERTY RIGHT SUBTYPE
- PROPERTY RIGHT SUBTYPE ID
- PROPERTY RIGHT SUBTYPE NAME
- PROPERTY RIGHT SUBTYPE DESCRIPTION

PROPERTY RIGHT TYPE
- PROPERTY RIGHT TYPE ID
- PROPERTY RIGHT TYPE NAME
- PROPERTY RIGHT TYPE DESCRIPTION

PROPERTY RIGHT
- PROPERTY RIGHT ID
- PROPERTY RIGHT CLASS ID (FK)
- PROPERTY RIGHT TYPE ID (FK)
- PROPERTY RIGHT SUBTYPE ID (FK)

ELIGIBILITY RATIO PROPERTY RIGHT OCCUPANCY
- ER PROPERTY RIGHT OCCUPANCY ID
- ELIGIBILITY RATIO ELIGIBLE OCCUPANCY MEASUREMENT
- ELIGIBILITY RATIO ID (FK)
- PROPERTY RIGHT ID (FK)
- UNIT ID (FK)

UTILITY AGREEMENT REIMBURSEMENT APPROACH
- UA REIMBURSEMENT APPROACH ID
- UA REIMBURSEMENT APPROACH NAME
- UA REIMBURSEMENT APPROACH DESCRIPTION

UA UTILITY ADJUSTMENT TYPE
- UA UTILITY ADJUSTMENT TYPE ID
- UA UTILITY ADJUSTMENT TYPE NAME
- UA UTILITY ADJUSTMENT TYPE DESCRIPTION

USER

USER EVENT TYPE
- USER EVENT TYPE ID
- USER EVENT TYPE NAME
- USER EVENT TYPE DESCRIPTION

USER EVENT
- USER EVENT NUMBER
- SYSTEM USER ID (FK)
- USER EVENT TIMESTAMP
- USER EVENT TYPE ID (FK)

DOT USER
- DOT USER ID
- DOT USER FIRST NAME
- DOT USER LAST NAME (IE1.1)
- DOT USER TITLE NAME
- DOT USER EMAIL ADDRESS
- DOT USER PHONE NUMBER
- DUP MOBILE PHONE NUMBER
- DOT USER FAX NUMBER
- DOT USER EVENT TIMESTAMP
- DOT OFFICE ID (FK)

COMPANY USER
- COMPANY USER ID
- COMPANY USER FIRST NAME
- COMPANY USER LAST NAME (IE1.1)
- COMPANY USER TITLE NAME
- COMPANY USER EMAIL ADDRESS
- COMPANY USER PHONE NUMBER
- COMPANY USER FAX NUMBER
- COMPANY USER EVENT TIMESTAMP
- COMPANY OFFICE ID (FK)

SYSTEM USER
- SYSTEM USER ID
- COMPANY USER ID (FK)
- DOT USER ID (FK)

DOT OFFICE TYPE
- OFFICE TYPE ID
- OFFICE TYPE NAME
- OFFICE TYPE COMMENT
- PARENT OFFICE TYPE ID

DOT OFFICE
- DOT OFFICE ID
- DOT OFFICE NAME
- DOT OFFICE ADDRESS
- DOT OFFICE CITY NAME
- DOT OFFICE ZIP CODE
- DOT OFFICE PHONE NUMBER
- DOT OFFICE FAX NUMBER
- DOT OFFICE PARENT ID
- MAINTENANCE SECTION ID
- DOT OFFICE EVENT TIMESTAMP
- DOT UNIT ID (FK)
- OFFICE TYPE ID (FK)
- STATE ID (FK)

CITY
- CITY ID
- CITY NAME
- STATE ID (FK)

COMPANY OFFICE
- COMPANY OFFICE ID
- COMPANY OFFICE NAME
- COMPANY OFFICE ACRONYM TEXT
- COMPANY OFFICE ADDRESS
- COMPANY OFFICE CITY NAME
- COMPANY OFFICE ZIP CODE
- COMPANY OFFICE PHONE NUMBER
- COMPANY OFFICE FAX NUMBER
- COMPANY ID (FK)
- STATE ID (FK)

STATE
- STATE ID
- STATE CODE
- STATE NAME
- STATE FIPS CODE

DOT UNIT
- DOT UNIT ID
- DOT UNIT NAME
- DOT UNIT NUMBER
- DOT UNIT TYPE ID (FK)

DOT UNIT TYPE
- DOT UNIT TYPE ID
- DOT UNIT TYPE NAME

STATE DOT
- STATE ID (FK)
- STATE DOT NAME
- STATE DOT ACRONYM TXT
- STATE DOT LOGO BLOB

DISTRICT
- DISTRICT ID
- DISTRICT NAME
- STATE ID (FK)

COUNTY
- COUNTY ID
- COUNTY NAME
- COUNTY FIPS CODE
- STATE ID (FK)

COMPANY
- COMPANY ID
- COMPANY ACRONYM TEXT
- COMPANY NAME

DOT PROJECT SYSTEM USER
- SYSTEM USER ID (FK)
- DOT PROJECT ID (FK)
- ROLE ID (FK)

ROLE
- ROLE ID
- ROLE NAME
- ROLE DESCRIPTION

PROJECT

HIGHWAY SYSTEM STATUS
- HIGHWAY STATUS ID
- HIGHWAY STATUS NAME

HIGHWAY SYSTEM
- HIGHWAY ID
- HIGHWAY NUMBER
- HIGHWAY NAME
- HIGHWAY FUNCTIONAL CLASS ID (FK)
- HIGHWAY STATUS ID (FK)

DOT PROJECT
- DOT PROJECT ID
- DOT PROJECT NUMBER
- DOT PROJECT CONTRACT CSJ NUMBER
- DOT PROJECT DESCRIPTION
- DOT PROJECT LIMITS FROM DESCRIPTION
- DOT PROJECT LIMITS TO DESCRIPTION
- DOT PROJECT BEGINNING RM NUMBER
- DOT PROJECT BEGINNING RMD MEASUREMENT
- DOT PROJECT ENDING RM NUMBER
- DOT PROJECT ENDING RMD MEASUREMENT
- DOT PROJECT ENGINEER NUMBER
- DOT PROJECT LAST REVISION TIMESTAMP
- DOT PROJECT CITY NAME
- COUNTY ID (FK)
- DISTRICT ID (FK)
- HIGHWAY ID (FK)
- CITY ID (FK)

HIGHWAY FUNCTIONAL CLASS
- HIGHWAY FUNCTIONAL CLASS ID
- HIGHWAY FUNCTIONAL CLASS CODE
- HIGHWAY FUNCTIONAL CLASS NAME

MAINTENANCE SECTION
- MAINTENANCE SECTION ID
- MAINTENANCE SECTION NAME

DOT PROJECT DATE
- DOT PROJECT DATE ID
- PROJECT DATE
- DOT PROJECT DATE TYPE ID (FK)
- DOT PROJECT ID (FK)

DOT PROJECT DATE TYPE
- DOT PROJECT DATE TYPE ID
- DOT PROJECT DATE TYPE NAME

UTILITY ADJUSTMENT PROCEDURE
- UTILITY ADJUSTMENT PROCEDURE ID
- UTILITY ADJUSTMENT PROCEDURE NAME
- UTILITY ADJUSTMENT PROCEDURE ACRONYM TEXT
- UTILITY ADJUSTMENT PROCEDURE DESCRIPTION

PROJECT UTILITY ADJUSTMENT PROCEDURE
- UTILITY ADJUSTMENT PROCEDURE ID (FK)
- DOT PROJECT ID (FK)

DOCUMENT

DOCUMENT SYSTEM USER ROLE
- DOCUMENT ID (FK)
- SYSTEM USER ID (FK)
- PROPERTY ROLE ID (FK)
- DOCUMENT ROLE ID (FK)

DOCUMENT ROLE
- DOCUMENT ROLE ID
- DOCUMENT ROLE NAME
- DOCUMENT ROLE DESCRIPTION

PROPERTY ROLE
- PROPERTY ROLE ID
- PROPERTY ROLE NAME
- PROPERTY ROLE DESCRIPTION

PROJECT DOCUMENT
- DOT PROJECT ID (FK)
- DOCUMENT ID (FK)

DOCUMENT SET ITEM
- DOCUMENT SET ID (FK)
- DOCUMENT ID (FK)

DOCUMENT SET
- DOCUMENT SET ID
- DOCUMENT SET NUMBER
- DOCUMENT SET TITLE NAME
- DOCUMENT SET DESCRIPTION
- DOCUMENT SET TYPE ID (FK)

DOCUMENT SET TYPE
- DOCUMENT SET TYPE ID
- DOCUMENT SET TYPE NAME
- DOCUMENT SET TYPE DESCRIPTION

DOCUMENT
- DOCUMENT ID
- DOCUMENT TITLE NAME
- DOCUMENT DESCRIPTION
- DOCUMENT ADDRESS
- DOCUMENT LOGICAL NAME
- DOCUMENT PHYSICAL NAME
- DOCUMENT HYPERLINK ADDRESS
- DOCUMENT SET MEMBER FLAG
- DOCUMENT COMMENT
- DOCUMENT TYPE ID (FK)

DOCUMENT DATE
- DOCUMENT DATE ID
- DOCUMENT DATE
- DOCUMENT DATE COMMENT
- DOCUMENT DATE TYPE ID (FK)
- DOCUMENT ID (FK)

DOCUMENT DATE TYPE
- DOCUMENT DATE TYPE ID
- DOCUMENT DATE TYPE NAME
- DOCUMENT DATE TYPE DESCRIPTION

DOCUMENT TYPE
- DOCUMENT TYPE ID
- DOCUMENT TYPE NAME
- DOCUMENT TYPE DESCRIPTION

UTILITY CONFLICT EVENT DOCUMENT
- DOCUMENT ID (FK)
- UTILITY CONFLICT EVENT NUMBER (FK)
- UTILITY CONFLICT ID (FK)

CAD DOCUMENT
- DOCUMENT ID (FK)
- CAD SOFTWARE VERSION NAME

IMAGERY DOCUMENT
- DOCUMENT ID (FK)
- IMAGERY RESOLUTION MEASUREMENT
- IMAGERY UNIT CODE (FK)
- ORIENTATION ID (FK)

PLAN DOCUMENT
- DOCUMENT ID (FK)
- PLAN DOCUMENT SHEET NUMBER
- PLAN DOCUMENT GROUP SHEET NUMBER
- PLAN DOCUMENT TOTAL GROUP SHEET NUMBER
- PLAN DOCUMENT COMMENT
- SHEET GROUP ID (FK)

ROW FORM
- ROW FORM ID
- ROW FORM NUMBER
- ROW FORM TITLE
- ROW FORM HYPERLINK

CAD DOCUMENT CELL
- DOCUMENT ID (FK)

ORIENTATION
- ORIENTATION ID
- ORIENTATION NAME

IMAGERY UNIT
- IMAGERY UNIT CODE
- IMAGERY UNIT NAME

SHEET GROUP
- SHEET GROUP ID
- SHEET GROUP NAME
- SHEET GROUP DESCRIPTION

CERTIFICATION DOCUMENT
- DOCUMENT ID (FK)
- CERTIFICATION DOCUMENT TYPE ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

CONVEYANCE DOCUMENT
- DOCUMENT ID (FK)
- PROPERTY RECORD VOLUME NUMBER
- PROPERTY RECORD PAGE NUMBER
- CONVEYANCE TYPE ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

PLAT
- DOCUMENT ID (FK)
- PLAT SURVEY DATE
- PLAT REMAINDER AREA MEASUREMENT
- PARCEL AREA MEASUREMENT
- PROPERTY RECORD VOLUME NUMBER
- PROPERTY RECORD PAGE NUMBER
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

PROPERTY DESCRIPTION
- DOCUMENT ID (FK)
- PROPERTY DESCRIPTION SURVEY DATE
- PROPERTY RECORD VOLUME NUMBER
- PROPERTY RECORD PAGE NUMBER
- PARCEL AREA MEASUREMENT
- PROPERTY DESCRIPTION TYPE ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

AGREEMENT DOCUMENT
- DOCUMENT ID (FK)
- AGREEMENT DOCUMENT TYPE ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

ENCUMBRANCE DOCUMENT
- DOCUMENT ID (FK)
- PROPERTY RECORD VOLUME NUMBER
- PROPERTY RECORD PAGE NUMBER
- ENCUMBRANCE DOCUMENT TYPE ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

EASEMENT DOCUMENT
- DOCUMENT ID (FK)
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

LEASE AGREEMENT DOCUMENT
- DOCUMENT ID (FK)
- LEASE CANCELLATION TERM NUMBER
- EFFECTIVE DATE
- EXPIRATION DATE
- VOID DATE
- EXECUTION DATE
- FILING DATE
- DOCUMENT NUMBER
- ROW FORM ID (FK)

CERTIFICATION DOCUMENT TYPE
- CERTIFICATION DOCUMENT TYPE ID
- CERTIFICATION DOCUMENT TYPE NAME
- CERTIFICATION DOCUMENT TYPE DESCRIPTION

PROPERTY DESCRIPTION TYPE
- PROPERTY DESCRIPTION TYPE ID
- PROPERTY DESCRIPTION TYPE NAME
- PROPERTY DESCRIPTION TYPE DESCRIPTION

AGREEMENT DOCUMENT TYPE
- AGREEMENT DOCUMENT TYPE ID
- AGREEMENT DOCUMENT TYPE NAME
- AGREEMENT DOCUMENT TYPE DESCRIPTION

ENCUMBRANCE DOCUMENT TYPE
- ENCUMBRANCE DOCUMENT TYPE ID
- ENCUMBRANCE DOCUMENT TYPE NAME
- ENCUMBRANCE DOCUMENT TYPE DESCRIPTION