

## **IMPORTANT NOTICE!!**

If you download these materials and wish to be added to the proposer contact list send an email to:

Jayne McMahan [jmcmahan@springfield-or.gov](mailto:jmcmahan@springfield-or.gov)

Information to be provided:

- “RFP# 1289 Transportation System Integration”  
in the subject line
- Company name
- Primary contact name
- Primary contact title
- Primary contact direct phone #
- Primary contact email

It will be the responsibility of each participating supplier to refer daily to the City of Springfield – Purchasing/Contracts website <http://www.springfield-or.gov/RFPAGE.HTM> to check for any available addendum to current opportunities, cancellations or intents to award posted.

**CITY OF SPRINGFIELD  
OREGON**

**Request for Proposals #1289  
Development and Public Works  
Transportation System Integration**

Sealed proposals will be received by the Finance Department, City of Springfield, 225 Fifth St. Springfield OR, 97477, Attn: Jayne McMahan until 2:00 p.m. local time, the 2nd of December, 2014 and opened at 2:00 p.m. local time the same day, for proposals regarding Name of Engagement. Sealed proposals must be marked **“RFP#1289: Transportation and System Integration”**.

The City of Springfield, Oregon is beginning the third phase of an asset management integration project. For this third phase, the City is seeking services in the following areas: locating and attributing all appurtenances associated with the street network, extending/refining the asset models within Autodesk Infrastructure Mapping Server (AIMS) and Infor Public Sector (IPS) to accommodate the new data and then loading the new appurtenance data into AIMS and IPS. Once the data is populated, the City seeks assistance defining/refining procedures to synchronize the assets between AIMS and IPS, and developing interfaces between IPS and other asset control systems. The City also seeks assistance with data cleaning and workflow configuration within IPS and an assessment of the City’s information technology architectures to insure those architectures can accommodate the growth of this highly integrated and data rich system.

A Pre-proposal non-mandatory meeting will be held on Oct. 28, 2014, 10:00 a.m. at City Hall conference room #3, 225 5<sup>th</sup> Street, Springfield, OR 97477. It is not required that you attend either in person or via phone but it is recommended. To access the meeting the phone conference dial-in information 541-736-7128.

Proposal packets are available on the City’s website at [www.springfield-or.gov](http://www.springfield-or.gov) (select the hyperlink from the menu at the lower left side of the page titled *Purchasing And Contracts* and then under “INVITATIONS TO BID and REQUESTS FOR PROPOSALS”, select *RFP#1289: Transportation and System Integration*) or by contacting Jayne McMahan at (541)726-3708 or by email: [jmcmahan@springfield-or.gov](mailto:jmcmahan@springfield-or.gov)

The City of Springfield reserves the right to accept or reject any or all proposals or to waive any specifications or requirements, or to negotiate with any vendor submitting a proposal regarding any aspect of this Request for Proposals when doing so is deemed to be in the best interest of the City.



Robert J. Duey  
Finance Director  
City of Springfield, OR

Publication Schedule:

The Register Guard:                   October 14, 2014  
Daily Journal of Commerce   October 15, 2014



# **Request for Proposal #1289**

## **Transportation System Integration**

City of Springfield  
Development and Public Works  
Springfield, Oregon 97477

**October 14, 2014**

## I. City Historical Background

The City of Springfield is the ninth-largest city in Oregon, with a population of approximately 58,575 (Lane Council of Governments, December 2010 estimate) and an incorporated area of 15.57 square miles. Located in western Oregon's southern Willamette Valley, the community was first settled by Elias and Mary Briggs and their family in 1848. It was formally incorporated in February 1885 as Springfield, after the field near the spring was fenced, creating a 'springfield'.

The Springfield charter became effective December 31, 2001. It can be found on the City's web site at <http://www.springfield-or.gov>.

The City operates under a council/manager form of government. The City Council develops and adopts legislation and policies to direct the City organization, but employs a professional administrator (the City Manager) to manage and oversee all City personnel and operations to carry out the council's direction. The City is organized into five departments: Administrative Services; Development and Public Works; Library; Police; and Fire & Life Safety.

The City Council consists of six Councilors, who each shall reside in a specific geographic ward, and are elected by the city at large on a nonpartisan ballot for staggered four-year terms. The Mayor is the Chief Elected Officer of the city. The Mayor is elected from the city at large on a nonpartisan ballot for a four-year term.

## II. Overall Project Description

This is the third of a multiphase project to integrate and manage all Springfield City assets within the Infor Public Sector (IPS) and Autodesk Infrastructure Map Server (AIMS) application environments. Phases one and two included upgrading from Hansen 7.5 to IPS 8.x and migrating the GIS sewer and street segment infrastructure assets into AIMS running on Oracle Spatial RDBMS.

This third phase of the project involves inventorying, locating and attributing all appurtenances associated with the street network, extending/refining the asset models within AIMS and IPS to accommodate the new data and then loading the new appurtenance data into AIMS and IPS. Once the data is populated, procedures to synchronize the assets between AIMS and IPS will be developed/refined, and interfaces between IPS and other asset control systems will be implemented. Lastly, project will involve data cleaning and workflow configuration within IPS and an assessment of the City's information technology architectures to insure those architectures can accommodate the growth of this highly integrated and data rich system.

## III. Scope of Work

The City of Springfield's purpose for issuing this RFP is to establish a contract(s) with a vendor or a group of vendors or a consortium that have the experience to satisfy business needs identified herein. City of Springfield staff will provide primary project management as the systems integrator and will coordinate work between vendors. **As such Proposers should anticipate collaboration with city staff and other service providers and can propose a total solution or propose a partial solution. The City reserves the right to assemble teams as needed for project success.**

### Current business challenges include:

The Department seeks On-call services to assist with these activities:

- Need assistance integrating transportation system appurtenances see Attachment 1 – Feature List Worksheet
- Need assistance creating associations between street appurtenances and other asset classes such as stormwater and wastewater features

- Need assistance developing current and complete asset inventories (data acquisition) see Attachment 1 – Feature List Worksheet develop metric for integration, acquisition, association
- Need assistance auditing current configuration of Map3D Industry Models. Based on finding make recommendation on best practices
- Need assistance developing asset lifecycle models, analyzing and incorporating asset valuation, asset depreciation and asset replacement information with City financial systems and IPS Asset Analysis module
- Need assistance designing and implementing “needed interfaces” as described below or discovered through the course of the project
- Need assistance auditing existing City information technology infrastructure, recommending solutions to meet facilities management functional needs, within all City service areas, planning and implementing solutions
- Need assistance designing and implementing Work Order and Customer Service Request processes. These processes will include dimensions dealing with work management, reporting required for risk management, legal requirements, etc. The scope of this effort is organization wide.
- Need support auditing and tuning of existing hardware and software
- Need training with AIMS, Oracle, AutoCAD Map, IPS, Safe FME, and new solutions implemented as part of this RFP.

Interfaces that need to be created include:

- Intelligent Transportation Systems (ITS) - Asset information interface between QuicNet and IPS, and ITS - Asset information interface between intelligent street light control and IPS  
Develop (as part of this RFP) ITS interfaces that make signal systems and lighting system information accessible in IPS to increase efficiency, safety, capacity or level of service of a transportation, i.e., support central management and operation, reduce energy consumption, reduce vehicle delays, reduce number of collisions, improve air quality, reduce fuel consumption and improve travel times.
- Traffic Count Information  
Develop interface that collects QuicNet traffic count information and loads traffic count data into IPS.

Interfaces not within the scope of this project that will be created during later phases (listed here for reference only):

- Alert Technologies, OpsCenter  
Share Customer Service Requests (CSR's), Inspections, Work Orders (WP's), Assets, and resources (equipment, materials, people, vehicles, etc.) with IPS during an emergency.
- Laserfiche Electronic Document Management (EDM) System  
Develop interface that stores and receives documents with City's EDM. Examples include design plans, as-built plans, intersection detail plans, etc.
- Note that future considerations also include video surveillance, changeable message signs, highway advisory radio. Such systems will need to be compliant with the “Regional ITS Operations and Implementation Plan”. Reference:  
<http://www.lcog.org/documents/meetings/mpc/0911/rtp2035/RTPAppEwithCoverPage-Draft-Sep11.pdf>

Systems are managed by the Technical Services Division (TSD) of the Development and Public Works Department (DPW) in coordination with the City's Information Technology Department (IT). Many of the components listed above are new to City staff and a result of recent integration efforts.

The services that City is soliciting are limited to interfaces and business challenges described herein and listed in Attachment 1 – Feature List Worksheet and Attachment 2 - Scope of Services. Services do not include interfaces, business challenges and features identified for creation after RFP or identified as optional. Attachment 3 – IPS Attribute List is provided for reference.

All remote access requires IT preauthorization. The City will provide upon request additional detail, including contact information, to selected Proposers.

### **Existing Integrated Systems Components (related to this project)**

The City of Springfield's Development and Public Works (DPW) department performs asset management (AM), facilities management (FM) and geographic information systems (GIS) functions that directly serve end users across the department. AM/FM/GIS outputs indirectly service other departments across the city, other agencies throughout the region and many private firms who work with the city on capital projects, planning projects, and various types of development projects.

The AM/FM/GIS is composed of commercial applications, open source applications, application servers, database servers and several interfaces.

Specific application software includes the following which are all on current maintenance:

#### Currently Installed Commercial Solutions Include:

- Autodesk Products, Version 2014: AutoCAD Map3D, Civil 3D, Autodesk Infrastructure Map Server (AIMS), Autodesk Studio, and various extensions.
- Environmental Systems Research Institute (ESRI), Version 10.x: ArcGIS (ArcView, ArcEdit and ArcInfo), ArcServer, ArcCatalog, and various extensions. ESRI server products running on MS SQL Server 2012.
- Infor Public Sector (IPS), Version 8.3x or 8.4x: Customer Service Requests, Work Management, Fleet, Plant, Sewer, Street, Asset Analysis, Inventory Control, Materials Manager, MapDrawer, GeoAdministrator, Web Services, and EPAK.
- Safe Feature Manipulation Engine (FME) 2014: FME Server Edition and FME Database Edition
- Oracle 11g R2: Oracle Database Enterprise Edition, Diagnostics Pack, Tuning Pack, Spatial and Graph
- NetMotion Mobility, v9.52
- Laserfiche Electronic Document Management System running on MS SQL Server 2008
- PeopleSoft Financials 9.1 and PeopleSoft Human Resources Management System 9.1 running on MS SQL Server 2008
- McCain, Bi-Tran 233 (ITS) - signal system software, client, installed at each controller at each intersection (software services contracted as needed, not currently on a software maintenance agreement)
- McCain, QuicNet Pro (ITS) - signal system software, central control system, installed on server at City Hall (software services contracted as needed, not currently on a software maintenance agreement)

#### Desirable Open Source Geospatial Solutions Include:

- World Wind SDK
- MapServer
- Open Layers
- PostGIS/PostgreSQL

- ExtJs
- GeoExt

Adopted Industry Standards Include:

- Open Geospatial Consortium (OGC) for mapping web services. Reference: <http://www.opengeospatial.org/standards>
- National Association of Sewer Service Companies (NASSCO), Pipeline Assessment Certification Program (PACP) and Manhole Assessment Certification Program (MACP), Reference: [http://nassco.org/publications/p\\_spec\\_guidelines.html](http://nassco.org/publications/p_spec_guidelines.html)
- Manual on Uniform Traffic Control Devices (MUTCD). Reference: [http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf\\_index.htm](http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm)
- National Transportation Communications for Intelligent Transportation System (ITS) Protocol (NTCIP). Reference: <http://www.ntcip.org/library/documents/> (get from Brian)
- International Municipal Signal Association (IMSA). Reference: <http://www.imsasafety.org/>
- National Electrical Manufacturers Association (NEMA). Reference: <https://www.nema.org/Standards/pages/default.aspx>
- American Public Works Association (APWA). Reference: <http://www.apwa.net/>
- International Transportation Engineers (ITE). Reference: <http://www.ite.org/technical/>
- Federal Highway Administration (FHWA). Reference: <https://www.fhwa.dot.gov/resources/legregs/>
- Oregon Department of Transportation (ODOT). Reference: <http://www.oregon.gov/ODOT/Pages/index.aspx>
- City of Springfield, Engineering Design Standards and Procedures Manual (EDSPM). Reference: <http://www.centallanertsp.org/SpringfieldTSP/Home>
- National Electric Safety Code (NESC). Reference: <http://standards.ieee.org/about/nesc/>
- National Electric Code (NEC). Available for purchase at: [http://www.nfpa.org/catalog/product.asp?pid=7014SB&order\\_src=D347&cookie\\_test=1&gclid=CPOgttyPhMACFcRzMgodr0UA-A](http://www.nfpa.org/catalog/product.asp?pid=7014SB&order_src=D347&cookie_test=1&gclid=CPOgttyPhMACFcRzMgodr0UA-A)
- Association of American State Highway Transportation Officials (AASHTO). Reference: <http://www.transportation.org/Pages/Default.aspx>
- Illumination Engineering Society of North America (IESNA), Section RP-8. Reference: [http://www.ies.org/about/what\\_is\\_iesna.cfm](http://www.ies.org/about/what_is_iesna.cfm)
- DOE Municipal Solid-State Street Lighting Consortium (MSSLC). Reference: <http://www1.eere.energy.gov/buildings/ssl/consortium.html>

Note: These standards are provided for reference and will be employed as appropriate during project implementation.

Equipment used to host related services includes:

Production Application Server:

- Dell PowerEdge R810 2U server/(2) 2.13GHz Xeon E7-4830 CPU, 96GB RAM

Development and Test Application Server:

- Dell PowerEdge R410 1U server/(1) 2.93GHz Xeon X5670 CPU, 32GB RAM

Production Database Server

- (Node One) Oracle Database Appliance (Sun Fire X4)  
(2 Intel(R) Xeon(R) X5675 6-core 3.06 GHz processors and twelve 8 GB DDR3-1333 registered DIMMs)

#### Test and Development Database Server

- (Node Two) Oracle Database Appliance (Sun Fire X4)  
(2 Intel(R) Xeon(R) X5675 6-core 3.06 GHz processors and twelve 8 GB DDR3-1333 registered DIMMs)

#### QuicNet and lighting control server

- Dell PowerEdge R520/(1) 1.90GHz Xeon E5-2420 CPU 6-core, 32GB RAM, 4 x 300 GB 15K SAS HDD

Existing interfaces include, but are not limited to:

#### Address information interface between IPS and the Regional Land Information Database (RLID)

- Interface relies on IPS web services, MS SQL to Oracle Gateway and several staging tables. Lane Council of Governments (LCOG) pushes data from RLID through the gateway into Oracle; and City's TSD manages IPS web services that pull address updates into IPS schema. Interface runs weekly.

#### Employee information interface between IPS and the City's PeopleSoft Human Resources (HR) application

- Interface relies on IPS web services, Oracle database link and several staging tables. City's IT creates warehouse for consumption, Oracle database link pulls data into staging; and City TSD manages IPS web services that pull employee updates into IPS schema. Interface runs nightly.

#### Asset information interface between IPS and Autodesk's AutoCAD Map application

- Interface relies on Oracle jobs, Oracle Spatial, Autodesk Industry Models, Autodesk proprietary "adapters" and IPS web services to provide one-way synchronization from Map schema to IPS schema within Oracle. Interface runs upon posting of jobs.

Existing transportation infrastructure includes:

- Lane miles by functional class
  - Collector: 62.87
  - Local: 288.55
  - Minor Arterial: 81.69
  - Principle Arterial: 34.38
- 4,300 street lights
- 8,000 signs
- 68 traffic signals (37 City-owned traffic signals and contractually 29 State of Oregon and 2 privately-owned traffic signals)

Please see Attachment 1 – Feature List Worksheet for detailed breakdown of transportation infrastructure.

## **IV. Proposal Submission Requirements**

Your response to the Request for Proposal must contain all of the information requested in the Request for Proposal along with acknowledgement of all addenda. Submissions must include the items organized and numbered to correspond to each requirement below:

Submission shall be prepared in a concise manner that affords easy evaluation. The City requires submission of all material in PDF. A completeness check will be conducted for each submission. Incomplete submissions will receive lower scores accordingly. However, Proposers may choose to respond to only those sections in Attachments 1 and 2

that pertain to solutions within their area of business and technical expertise. (Proposers will be evaluated on their individual proposals and not on whether they respond to all items within the scope of services requested.)

Proposers shall address the following criteria in their submissions:

1. A list of all clients not covered by non-disclosure agreements for whom similar projects have been completed by your firm within the last three years. These references will be contacted by City regarding your performance of these projects. Include company name, brief project description, the contract value, contact name, contact title, contact email address and contact phone number.
2. Complete Attachment # 1 Feature List Worksheet. Fill in all yellow highlighted cells for those features within your proposal.
  - a. Indicate whether you are able to create the feature (identify and locate): column "Create Feature Yes/No".
  - b. Indicate whether you are able to populate the required attributes on the feature: column "Attribute Feature Yes/No". Refer to Attachment 3 – IPS Attribute List
  - c. Describe your method for collecting the feature: column "Collection Method". Attached additional material as needed: column "Reference Material (Optional)".
3. Complete Attachment # 2 Scope of Services yellow highlighted cells for those sections within your proposal.
  - a. For each item describe your proposal for satisfying the business need. Form space is limited so attach and reference (by Item #) additional materials as needed.
  - b. Estimate the hours needed to implement each item: column "Estimated Hours to Implement".
  - c. Estimate the cost to implement each item: column "Cost".
  - d. List your firm's years of experience implementing similar tasks: column "Firm's Experience".
  - e. For each section total the hours, cost and experience.
  - f. Include any additional hardware, software or other items on which your proposal depends.
  - g. List the talent you will assign to this project. Include their names, titles and their areas of expertise, experience with projects of similar size and scope, and applicable certifications, licenses, etc. If the Proposer is selected, a contract is signed and their key personnel listed on the submission changes prior to or during the execution of a discrete SOW, written approval from the City's project manager will be required.
  - h. Provide a brief background of your firm, your firm's customer service philosophy and your firm's management strategy when working on projects involving multiple firms deploying solutions involving multiple disciplines.

**Rates:**

The submission must show hourly rates, software costs, software maintenance costs, equipment costs, and training costs. Include an explanation of the Proposers' method of calculating the fee. Specify hourly rates for any work identified as excluded, optional, or additional, including additional meetings. Identify types of potential reimbursable expenses, rates for the same, and include an estimate of reimbursable costs, by type. All travel related or other expenses must be pre-approved in writing by City and are a pass through without markup. Independent Contractor must use City travel reimbursement rates. City follows GSA Per Diem rates that can be found at the following URL <http://www.gsa.gov/portal/category/100120>. Pre – approved reimbursable expenses to be reimbursed by the City include: transportation to and from destination (coach fare or less), lodging, meals, local transportation at destination, and miscellaneous incidental expenses required to transact City business. The City does not reimburse for alcohol, in room movies, laundry, dry cleaning, room service additional charges for in room meal delivery, or health club costs. Lastly, copies of all receipts must accompany invoice for all pre-approved reimbursable expenses.

4. Signed Attachment #4 – Authorization to Legally Bind Proposer
5. Signed Attachment #5 – Minority Women Emerging Small Business Form (MWESB)
6. Acknowledgement and acceptance of all terms and of conditions in Attachment #6 – Contract

## IV. Evaluation and Selection Criteria

A committee comprised of representatives from the City will review the Proposals for conformance with the requirements of the Request for Proposals. Conforming Proposals will be evaluated according to the criteria listed below.

Following the initial review, the committee will make a final selection based on the best overall interests of Springfield. Qualifications, availability, and cost will all be considered. The committee will rely on information provided in the Submissions, as well as information provided by references.

Items are grouped into sections 1.0 through 6.0. Proposals may be submitted on one or more sections and/or for individual line items within a section; however competing proposals will be scored and compared on each section in its entirety. City also reserves the right to negotiate awarded work at the line item level.

<b>Evaluation Criteria: 1.0 Data Acquisition</b>	<b>Possible Points</b>
1.1 Proposal (Attachments 1 & 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20
1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Collection and documentation methods</li> <li>• Citizen interaction strategy</li> <li>• QA/QC processes</li> <li>• Hardware/software tools</li> <li>• Responses to questions about proposal</li> </ul>	20
<b>Total Points Possible</b>	<b>115</b>

<b>Evaluation Criteria: 2.0 Autodesk Infrastructure Map Server</b>	<b>Possible Points</b>
1.1 Proposal (Attachment 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20

1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Documentation methods</li> <li>• QA/QC processes</li> <li>• Hardware/software tools</li> <li>• Responses to questions about proposal</li> </ul>	20

**Total Points Possible            115**

<b>Evaluation Criteria: 3.0 IPS 8.x Asset Loading</b>	<b>Possible Points</b>
1.1 Proposal (Attachment 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20
1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Documentation methods</li> <li>• QA/QC processes</li> <li>• Hardware/software tools</li> <li>• Responses to questions about proposal</li> </ul>	20

**Total Points Possible            115**

<b>Evaluation Criteria: 4.0 IPS 8.x Data Cleansing</b>	<b>Possible Points</b>
1.1 Proposal (Attachment 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20
1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Documentation methods</li> <li>• QA/QC processes</li> <li>• Hardware/software tools</li> </ul>	20

<ul style="list-style-type: none"> <li>• Responses to questions about proposal</li> </ul>	
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**Total Points Possible      115**

<b>Evaluation Criteria: 5.0 IPS 8.x Interface Development</b>	<b>Possible Points</b>
1.1 Proposal (Attachment 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20
1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Analysis methods</li> <li>• Documentation methods</li> <li>• Testing processes</li> <li>• Development platform</li> <li>• Responses to questions about proposal</li> </ul>	20

**Total Points Possible      115**

<b>Evaluation Criteria: 6.0 Information Technology Architecture</b>	<b>Possible Points</b>
1.1 Proposal (Attachment 2)	20
1.2 References check from customers for which your firm has provided similar projects within the last three years.	20
1.3 Cost of proposal. (Attachment 2)	15
1.4 Solutions that integrate well with City existing integrated systems	10
1.5 Talent assigned to project (Attachment 2)	20
1.6 Software and hardware service agreements (terms support City needs)	10
1.7 Proposal Presentation <ul style="list-style-type: none"> <li>• Methods to perform analysis</li> <li>• Tools to perform analysis</li> <li>• Documentation of analysis results</li> <li>• Responses to questions about proposal</li> </ul>	20

**Total Points Possible      115**

In the event of a tie, highest score in item 1.7 Proposal Presentation will be used as the tie breaker. Reference scores will be based on responses that confirm contractor's ability to successfully complete SOW, ability to resolve issues and provide a methodology for issues resolution, contractor's flexibility and how well contractor can collaborate with 3<sup>rd</sup> party vendors.

**Selection Process**

- Evaluate and score submitted materials (Attachments 1 & 2 and reference materials)
- Perform reference checks
- Develop short list, if applicable, of the top three scoring vendors based on scores of Attachments 1 & 2 by section and reference checks
- Presentations of proposal
- Evaluate and score of proposal presentations
- Make final selection(s)

**V. Schedule for Selection Process**

<b>RFP Package Available</b>	<b>Oct. 14, 2014</b>
<b>Pre-proposal non-mandatory meeting</b>	<b>Oct. 28, 2014, 10am local time</b>
<b>Request for Clarification Due (if applicable)</b>	<b>Nov. 21, 2014, noon local time</b>
<b>Response to Clarification Due (if applicable)</b>	<b>Nov. 25, 2014</b>
<b>Proposals Due by:</b>	<b>Dec. 2, 2014, 2pm local time</b>
<b>Review &amp; Interview (if applicable)</b>	<b>Dec. 10, 2014</b>
<b>Intent to Award Notice (approximate)</b>	<b>Dec. 16, 2014</b>
<b>Contract Award (approximate)</b>	<b>Jan. 20, 2015</b>

**Pre-proposal non-mandatory meeting information:**

A Pre-proposal non-mandatory meeting will be held on Oct. 28, 2014, 10:00 a.m. at City Hall conference room #3, 225 5<sup>th</sup> Street, Springfield, OR 97477. It is not required that you attend either in person or via phone but it is recommended. To access the meeting the phone conference dial-in information 541-736-7128.

Prospective Proposers may contact Jayne McMahan by email at [jmcmahan@springfield-or.gov](mailto:jmcmahan@springfield-or.gov) for further information regarding this process or to request clarification. **Contact with other City officials may be grounds for disqualification.** Please note that the City of Springfield has implemented this policy to ensure fairness and transparency in the selection process. Upon receipt of an inquiry from a prospective proposer, the message is promptly relayed to the project's lead staff person, who then prepares a written reply. Ms. McMahan, in turn, posts the questions and responses in an Addendum. Follow-up questions and/or clarifications may continue to be submitted in this fashion until noon local time November 21, 2014.

**VI. Instructions to Proposers**

The Request for Proposals may be found on the City of Springfield website at [www.springfield-or.gov](http://www.springfield-or.gov) (Select the **Purchase/Contracts** hyperlink from the menu on the left and then select the document titled **RFP# 1289Transportation System Integration**).

Each Proposal must include one (1) original signed submission, six (6) printed copies clearly marked “**RFP# 1289 Transportation System Integration**” and (1) electronic copy (PDF format) on a CD. Each original Proposal and required copies must be contained in a sealed envelope or box and must be received no later than 2pm, local time, December 2, 2014 at the following address:

City of Springfield  
Finance Department  
Attention: Jayne McMahan, Procurement and Contracts Manager  
225 Fifth Street,  
Springfield, Oregon 97477

## **VII. Late Proposals Not Considered**

Proposals must be received by the time specified at the address listed above. Any Proposal received after the deadline will not be considered. Faxed or emailed submissions will not be accepted.

## **VIII. Addenda to RFP**

In the event that it is necessary to amend, revise, or supplement any part of the Request for Proposal, addenda will be posted on Springfield’s website at [www.springfield-or.gov](http://www.springfield-or.gov) (select the hyperlink **Purchase/Contracts** from the left menu on the home page to be linked to the ITB/RFP page where the document titled **RFP#1289 Transportation System Integration** is linked). The City will make a reasonable effort to provide the addenda to all Proposers to whom the City provided the initial Proposal. This includes the amendment of dates in the Schedule for Selection Process. Any addenda so issued are to be considered part of the specifications of the Proposal. The City is not responsible for any explanation, clarification, interpretation or approval made or given in any manner except by written addenda issued by City.

In case of any doubt or differences of opinion as to the services to be furnished hereunder, or the interpretation of the provisions of the Proposal, the decision of the City shall be final and binding upon all parties.

## **IX. Contract**

The successful Proposer will be expected to enter into a professional services contract with the City. The contract will specify the extent of services to be rendered, the means and methods of providing the services, and the amount of compensation. A sample contract is included as Attachment 6.

## **X. Negotiation of Price Agreement**

Springfield reserves the right to negotiate a final contract which is in the best interest of the City considering cost effectiveness and quality central control. Once a tentative selection has been made by the evaluation committee, City staff will attempt to negotiate a contract with the preferred Proposer. If the negotiations are not successful, City staff will negotiate with other qualified Proposers in the order of their respective qualifications until an agreement is reached or City staff decides to terminate the selection process.

## **XI. City Selection Discretion**

Springfield reserves the right to reject any or all bids and to waive irregularities and informalities in the selection process. Springfield further reserves the right to negotiate, amend, and refine bids in consultation with one or more of the prospective Proposers.

## **XII. Proposal Ownership**

All material submitted by the Proposers shall be considered property of Springfield, and the City will not be required to return same to any Proposer. The material submitted by Proposer will be treated in the same manner as the City's own records.

After opening, all Proposals become part of the public record unless exempt under Oregon Public Records Law. Proposers wishing to exempt appropriate portions of their Proposals from disclosure as public records are encouraged to discuss their concerns with City's Finance Director (address listed below) prior to the submissions of their Proposals.

Robert J. Duey, Finance Director  
City of Springfield Finance Department  
225 Fifth Street  
Springfield, OR 97477

## **XIII. Exceptions to Request for Proposal**

If, for any reason, a Proposer should find fault with the structure of this Request for Proposal or with the evaluation process, concerns may be submitted in writing to:

Jayne McMahan, Procurement and Contracts Manager  
Springfield Finance Department  
225 Fifth Street  
Springfield, OR 97477  
Phone: (541) 726-3708  
jmcman@springfield-or.gov

The City will make every effort to answer questions and, if warranted, to amend the Request for Proposal. Responses to questions and amendments to the Proposal will be posted on the Springfield website [www.springfield-or.gov](http://www.springfield-or.gov) (select the hyperlink **Purchase/Contracts** from the left menu on the home page and then select the document titled **RFP# 1289 Transportation System Integration**). Proposers who are unable or unwilling to meet any of the requirements of this Request for Proposal must include, as part of their response, written exceptions to those requirements. Such request shall be delivered on or before noon local time **November 21, 2014**.

#### **XIV. Comments Procedure**

A prospective Proposer may deliver to Jayne McMahan, a written request for change to any of the specification listed in this Request for Proposal. This request must be delivered no later than noon local time November 21, 2014. A written request for change shall include:

- A detailed description of the legal and factual grounds for the request;
- A description of the resulting prejudice to the prospective Proposer; and
- A statement of the form of relief requested or any bid changes to the specifications.

The City will review the specification change request and notify the prospective Proposers of the decision in writing prior to the closing date. To the extent possible, the City will notify other prospective Proposers of any changes or modifications to the Request for Proposal.

#### **XV. Protest Procedure**

Any Proposer who has submitted a Proposal to the City and who is adversely affected by the City's award of the Contract to another Proposer has seven (7) days after issuance of the Notice of Intent to Award the Contract, to submit a written protest of the award to the City. This right to protest shall conform to the written requirements of OAR 137-047-0740 and specify the grounds upon which the protest is based.

An adversely affected Proposer must exhaust all avenues of administrative relief and review before seeking judicial review of City's Contract award. Concerns must be submitted to:

Robert J. Duey  
Finance Director  
City of Springfield  
225 Fifth Street  
Springfield, OR 97477

#### **XVI. Cost of Proposal**

The City is not liable for any costs incurred by vendors for the preparation and presentation of their Request for Proposals. This includes any costs in the submission of a Proposal or in making necessary studies or designs for the preparation thereof.

**ATTACHMENT 1**

Line ID	Class	Feature	Description	Needed	Priority	Exists in Integrated Systems	Count (Approx.)	Create Feature Yes/No	Attribute Feature Yes/No	Collection Method	Referenced Material (Optional)
<b>Transportation Feature List Worksheet:</b>											
<b>Note:</b>											
aa		Street segment and intersection linear topologies exist in the Map schema (AIMS)									
bb		Street segments linear topologies exist in the Infor schema (IPS)									
cc		Street segments have been synchronized across the Map and Infor schema									
<b>Features within scope of current RFP</b>											
1	<b>Roads and Streets</b>										
2		Edge of Pavement (EOP)	non-curbed, EOP (include curb type)	yes	10		(unknown)				
3		Top of Curb	Top of curb	yes	10		(unknown)				
4		Bottom of Curb	Bottom of curb if not represented by EOP	yes	10		(unknown)				
5		Crown	Center high point of street	yes	7		(unknown)				
6		Gutter	Defined gutter/change of pavement	yes	10		(unknown)				
7		Shoulder/Berm	Edge of travelled way to edge of pave/gravel	yes	8		(unknown)				
8		Planter strip	Derived from face of curb and sidewalk	yes	10		(unknown)				
9		Bridges	Street and ped bridges	yes	10	IPS	50				
10		Intersections	All intersections including (signalized and non signalized)	yes	10		(unknown)				
11	<b>Barrier</b>										
12		Barrier	Road ends and closure barrier (e.g. Jersey or similar traffic barrier)	yes	10		(unknown)				
13		Median	Raised concrete barrier (as a district feature)	yes	10		(unknown)				
14	<b>Guardrail</b>										
15		Guardrail	Various types from steel to cable	yes	10		(unknown)				
16	<b>Traffic Calming</b>										
17		Speed Hump	Speed (humps and bumps), regardless of size	yes	10		(unknown)				
18	<b>Sidewalk / non motorized trail</b>										
19		Sidewalk	Edge of Sidewalk	yes	10	IPS	(unknown)				
20		ADA Ramp	Ramp (count includes all ramps)	yes	10	IPS	3,500				
21		ADA Tactile Warning	Plate	yes	10		(unknown)				
22		Bike and Ped Trail (multi use path)	edge of pavement	yes	10		(unknown)				
23		Bike Lane	Identified by paint line and symbols	yes	10	IPS	350				
24	<b>Driveway</b>										
25		Drive Apron	Edge of Apron	yes	10		(unknown)				
26		Driveway- (Public)	Edge of pavement or obvious edge within ROW	yes	10		(unknown)				
27		Parking area (Public)	Edge of pavement or obvious edge within ROW	yes	10		(unknown)				
28		Top of Curb	Top of curb	yes	10		(unknown)				
29		Bottom of Curb	Bottom of curb	yes	10		(unknown)				
30	<b>Pavement Marking</b>										
31		Street Lines	Center of lane, symbolized (all horizontal lane lines) MUTCD	yes	10						
32		Legends (symbols)	School, slow, stop, RR, etc. as symbol MUTCD	yes	10	IPS	14,000				
33		Turn Arrows	Arrows as symbol (to be categorized with legend - text, symbols)	yes	10	IPS	4,000				
34		Curb Painting	e.g. yellow zones, loading zones, etc.	yes	5						
35	<b>Traffic Signals</b>										
36		Signal Posts	Signal poles with signal heads	yes	10	IPS	250				
37		Signal Post w/Arm	Arm attached to signal post with signal heads	yes	10	IPS	250				

38	Signal Post w/ Luminaire	Signal post with attached street light	yes	10	IPS	150				
39	Signal Head	Traffic signal light, regardless of number of lights	yes	10	IPS	800				
40	Beacon	hanging flashing, bar with flashing light, several types	yes	10	IPS	125				
41	Cabinets	Traffic signal within 100 feet of signalized intersection	yes	10	IPS	125				
42	<b>Pedestrian Signals</b>									
43	Signal Post	Signal post with attached pedestrian head	yes	10	IPS	325				
44	Signal Head	Pedestrian cross walk/don't walk indicator	yes	10	IPS	525				
45	Actuator button	Pedestrian push button	yes	10	IPS	450				
46	Cabinets	Ped signal within 100 feet of signalized intersection	yes	10		(unknown)				
47	<b>Street Lighting</b>									
48	Street Light Posts	Poles, posts, etc. that hold a luminaire head	yes	10		(unknown)				
49	<b>Traffic ITS Devices</b>									
50	PTZ camera	just one for surveillance camera	yes	5		3				
54	<b>Traffic Detector</b>									
55	Traffic detector	Signal, loops, radar, video camera, FLIR	yes	10		1250				
56	EMS traffic signal detector	option detector	yes	10		250				
57	<b>Traffic Signage</b>									
58	Traffic signs	Sign Plate (stop, arrow, speed limit, etc.) with code	yes	10	IPS	5200				
59	Sign Post	Sign posts	yes	10		(unknown)				
60	<b>Guide Post</b>									
61	Reflective spot post	traffic guidance posts along edge of road or center median	yes	7						
62	<b>Street Signs</b>									
63	Street name Signs	Sign plate(s)	yes	8	IPS	3500				
64	Route marking and info sign	Service and informational signs	yes	8		(unknown)				
65	<b>Miscellaneous Utilities</b>									
66	Culverts	Only when visible	yes	10						
68	<b>Additional Features Beyond Scope of Current RFP</b>									
69	<b>Catch Basins</b>									
70	Catch Basin	circle, square, regardless of size or shape	optional							
71	Drop inlet	embedded in curb	optional							
72	<b>Manholes</b>									
73	Manhole covers	circular hatch- no service identification	optional							
74	Hatch	rectangular hatch- no service identification	optional							
75	<b>Utility Covers and Markers</b>									
76	Utility cover	various shapes and sizes, no service identification	optional							
77	Monument box	mon box, usually square in roadway when identifiable	optional							
78	Water Meter cover	Only when clearly obvious-otherwise cover	optional							
79	<b>Utility Poles</b>									
80	Electric, telephone, etc.	Pole position, base and top	optional							
81	Transformers	attached to poles	optional							
82	Lights (non-street use)	Luminaires attached to poles or pole arm	optional							
83	<b>Hydrants</b>									
84	Fire Hydrant	Fire Hydrant	optional							
85	Stand Pipe	Stand Pipe	optional							
86	<b>Tree lawn</b>									
87	Tree lawn	Space between S/W and Road edge	optional							
88	Planter area (Public)	Space or constructed area between S/W and Road edge	optional							



## ATTACHMENT 2

### SCOPE OF SERVICES

Proposal  
#1289

Name of Company

Item #	Proposed Solution - Attach additional materials as needed	Estimated Hours to implement	Cost	Firm's Experience No. of Years
<b>1.0. Data Acquisition</b>				
1.1 Collect Location	Collect location and type of all street features within the scope of the project. Fill out Attachment 1 - Feature List Worksheet Proposal:			
1.2 Populate Attributes	Describe process to attribute all collected street features. See ATTACHMENT 3 - IPS Attribute List.xlsx. Proposal:			
1.3 Provide administrative and end user training	Describe training topics, methods and duration. Proposal:			
<b>1.0 Totals to implement Data Acquisition</b>				
<b>2.0. Autodesk Infrastructure Map Server</b>				
2.1. Analyze existing models	Analyze and describe strategies to improve existing industry models implemented in Autodesk Infrastructure Map Server (2014). Proposal:			
2.2. Develop new simplified models	Describe methods to develop models for new asset types implemented through this project. Proposal:			
2.3. Initial load of street features into AIMS	Describe methods to load collected street feature data into the AIMS industry models. See ATTACHMENT 3 - IPS Attribute List.xlsx Proposal:			
2.4. Provide administrative training	Describe training topics, methods and duration. Proposal:			
<b>2.0 Totals to implement Autodesk Infrastructure Map Server</b>				
<b>3.0. IPS 8.x Asset Loading</b>				
3.1 Initial load of street features into IPS	Describe methods to load collected street feature data into the AIMS industry models. See ATTACHMENT 3 - IPS Attribute List.xlsx Proposal:			
3.2. Develop code tables	Describe methods to develop code table values in support of the newly populated asset types. Proposal:			
3.3. Develop CSR and WO types	Describe methods to develop CSR and WO record types that support the new asset types. Proposal:			
3.4. Associate assets	Create appropriate associations between street assets and storm/sewer assets. Proposal:			
3.5. Create life cycle models	Analyze and describe methods to create asset life cycle models i.e. predictive modeling, system failure, asset life cycle, replacement scheduling, etc. for the street assets.. Proposal:			
3.6. Provide administrative training	Describe training topics, methods and duration. Proposal:			
<b>3.0 Totals to implement IPS 8.x Asset Loading</b>				
<b>4.0. IPS 8.x Data Cleansing</b>				
4.1. Clean address	Describe methods to remove redundant IPS address records. Proposal:			
4.2. Clean contacts	Describe methods to remove redundant IPS contact records. Proposal:			
4.3. Clean street segments	Describe methods to remove redundant IPS street segment records. Proposal:			
4.4. Standardize code values	Analyze and describe methods to standardize existing code tables. Proposal:			
4.5. Standardize CSR and WO types	Analyze and describe methods to standardize existing CRS and WO type and associated workflow. Proposal:			
4.6. Reporting - Development and Design	Describe process to analyze reporting needs and methods used for report development. Proposal:			
4.7. Provide administrative training	Describe training topics, methods and duration. Proposal:			
<b>4.0 Totals to implement IPS 8.x Data Cleaning</b>				
<b>5.0 IPS 8.x Interface Development</b>				
5.1. Improve Map3D to IPS interface	Analyze and describe methods to improve existing Map3D to IPS interface to allow for more efficient administration. (Current interface uses IPS web services) Proposal:			
5.2. Capture signal condition	Analyze and describe methods to capture QuicNet signal condition information into IPS signal asset condition. Generate WO based on asset condition criteria. Proposal:			
5.3. Capture street light condition	Analyze and describe methods to capture street light condition information into IPS street light asset condition. See specification at <a href="http://www1.eere.energy.gov/buildings/ssl/specification.html">http://www1.eere.energy.gov/buildings/ssl/specification.html</a> . Generate WO base in asset condition criteria.			

	<b>Proposal:</b>			
5.4. Capture traffic count	Analyze and describe methods to capture traffic count information from QuicNet, fixed length text and delimited text into IPS street asset observations.			
	<b>Proposal:</b>			
5.5. Provide administrative training	Describe training topics, methods and duration.			
	<b>Proposal:</b>			
<b>5.0 Totals to implement IPS 8.x Interface Development</b>				
<b>6.0. Information Technology Architecture:</b>				
6.1. Analyze architecture	Analyze and describe methods to document current architecture and its ability to efficiently and securely support the application and data requirements of facilities management. This includes database services, application services, file and storage services, backup and recovery services, disaster recovery services, network (including remote and mobile) services, telecommunications, security architecture, security standards compliance (CJIS, HIPAA, PCI, etc.) and internal documentation standards.			
	<b>Proposal:</b>			
6.2 Publish findings and make recommendations	Publish analysis findings and recommend improvements to the technology architecture.			
	<b>Proposal:</b>			
6.3 Tune existing architecture	Analyze and describe methods to audit, configure and tune existing hardware and software systems, where possible, to increase performance, extend system life, mitigate security risks and etc.			
	<b>Proposal:</b>			
6.4. Provide administrative training	Describe training topics, methods and duration.			
	<b>Proposal:</b>			
<b>6.0 Totals to implement Information Technology Architecture</b>				

Materials and Travel Costs		
Item	Description	Cost
5.1 Proposed Hardware	List additional proposed hardware	
5.2 Proposed Software	Additional Proposed Software	
5.3 Proposed Hosted Solutions	Additional Proposed Hosted Solutions	
5.4 Other Proposed Items	Include any addition items that are part of this proposal	
5.6 Reimbursable Expenses	Include any reimbursable expenses such as travel and lodging	

Talent Assigned to Project		
Name and Title	Role and Relevant Certifications	Years Experience and Hourly Rate

**Business Statement**

Provide a brief background of your firm, your firm's customer service philosophy and your firm's management strategy when working on projects involving multiple firms deploying solutions involving multiple disciplines.

**Statement:**

Valid for 90 Days from date submitted below.

Submitted this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

	Signature of Proposer
	Print Proposer Name
	Title of Proposer
	Proposer Phone #
	Proposer Email Address

# ATTACHMENT 3

Infor Object: StreetSegment (COMPSEG)									
Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			1
HIGHADDR	HighAddressNumber	0	The high address street number for this street segment. This is the highest street number near the	Varchar	6	FALSE			1
LOWADDR	LowAddressNumber	0	The low address street number for this street segment. This is the lowest street number near the	Varchar	6	FALSE			1
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			1
SEGLN	Length	0	Street segment length.	Float8	0	FALSE			1
SEGLNUOM	LengthUOM	0	Street segment length unit of measurement.	Varchar	10	FALSE			1
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			1
STKEY	Street	0	Key to the street this segment is associated with.	Integer	0	FALSE		1	1
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
UNITID	ID	0	Identifier for the Street.	Varchar	20	TRUE			1
UNITID2	ID2	0	Identifier for the Street Segment.	Varchar	10	TRUE			1
BASEDPH	BaseDepth	0	Base depth.	Float8	0	FALSE			2
BASEDPHUOM	BaseDepthUOM	0	Base depth unit of measurement.	Varchar	10	FALSE			2
BASETYPE	BaseType	0	Base type. Must be in the Base Type table.	Varchar	10	FALSE			2
DIVTYPE	DividerType	0	Divider type. Must be in the Divider Type table.	Varchar	10	FALSE			2
ELEVHIGH	HighestElevation	0	Highest elevation on the street segment.	Float8	0	FALSE			2
ELEVHIGHUOM	HighestElevationUOM	0	Highest elevation unit of measurement.	Varchar	10	FALSE			2
ELEVLOW	LowestElevation	0	Lowest elevation on the street segment.	Float8	0	FALSE			2
ELEVLOWUOM	LowestElevationUOM	0	Lowest elevation unit of measurement.	Varchar	10	FALSE			2
FIRSTKEY	BeginCrossStreet	0	Key to the cross street marking the beginning of the street segment.	Integer	0	FALSE		1	2
GRADE	Grade	0	Grade of the street segment.	Float8	0	FALSE			2
NOLANES	NumberOfLanes	0	Number of traffic lanes.	Short	0	FALSE			2
ONEWAY	IsOneWay	1	Flag indicating whether the street segment is limited to one-way traffic.	Varchar	1	FALSE			2
SPEEDLIMIT	SpeedLimit	0	Speed limit.	Short	0	FALSE			2
SURFTYPE	SurfaceType	0	Surface type. Must be in the Surface Type table.	Varchar	10	FALSE			2
SURFWID	SurfaceWidth	0	Surface width.	Float8	0	FALSE			2
SURFWIDUOM	SurfaceWidthUOM	0	Surface width unit of measurement.	Varchar	10	FALSE			2
TOSTKEY	EndCrossStreet	0	Key to the cross street marking the ending of the street segment.	Integer	0	FALSE		1	2
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located. Must be in t	Varchar	10	FALSE			3
ASBL	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BUSROUTE	IsBusRoute	1	Flag indicating whether the street segment is used for a bus route.	Varchar	1	FALSE			3
DESIGNADT	DesignedAverageDailyTraff	0	Designed average daily traffic.	Integer	0	FALSE			3
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			3
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			3
MEASADT	MeasuredAverageDailyTraff	0	Measured average daily traffic.	Integer	0	FALSE			3
MEASADTE	AverageDailyTrafficMeasur	0	Date the average daily traffic was measured.	Timestamp	0	FALSE			3
MEASDIR	AverageDailyTrafficMeasur	0	Direction the average daily traffic was measured. Must be in the Direction table.	Varchar	3	FALSE			3
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownership Table.	Varchar	10	FALSE			3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is located. Mus	Varchar	10	FALSE			3
SUBGRDSTRN	SubgradeStrength	0	Subgrade strength.	Varchar	1	FALSE			3
SURFDPTH	SurfaceDepth	0	Surface depth.	Float8	0	FALSE			3
SURFDPTHUOM	SurfaceDepthUOM	0	Surface depth unit of measurement.	Varchar	10	FALSE			3
TRUCKROUTE	IsTruckRoute	1	Flag indicating whether the street segment is used for a truck route.	Varchar	1	FALSE			3
UNITTYPE	UnitType	0	Specific type of street. Must be in the Street Class Table.	Varchar	10	FALSE			3
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			3
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			3
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			3
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDate/Time	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an Address	Integer	0	FALSE			4
ADDRQUAL	AddressQualifier	0	Free-form field describing any special instructions for maintaining, locating, or further describing	Varchar	300	FALSE			4
BGTHD	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE			4
BLDFLOOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in the BLD	Integer	0	FALSE			4
BLDRROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be in the BLD	Integer	0	FALSE			4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE			4
EXPHY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
FRREF	ReferenceFrom	0	Beginning measurement of a reference range. This is paired with the TOREF field.	Float8	0	FALSE			4
FRREFUOM	ReferenceFromUOM	0	Unit of measurement for a reference range.	Varchar	10	FALSE			4
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDate/Time	0	Modified Date/Time	Timestamp	0	FALSE			4
PERCOMM	PercentCommercial	0	Percent commercial.	Short	0	FALSE			4
PERCGROW	PercentGrowth	0	Percent growth.	Short	0	FALSE			4
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE			4
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE			4
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE			4
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further describing	LongVarChar	0	FALSE			4
TOREF	ReferenceTo	0	Ending measurement of a reference range. This is paired with the FRREF field.	Float8	0	FALSE			4
TOREFUOM	ReferenceToUOM	0	Ending measurement of a reference range unit of measurement.	Varchar	10	FALSE			4
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			4
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE			4

- Priority List
- 1 System Generated/Mandatory
  - 2 Collected by Contract
  - 3 City responsibility
  - 4 not nessasarry/system generated

- Required tables
- Service Status Table
  - Base Type table
  - Divider Type table
  - Surface Type table
  - Area Table
  - District Table
  - Direction table
  - Ownership Table
  - Sub-area Table
  - Street Class Table
  - Color table

### ATTACHMENT 3

**Infor Object: SegmentCrosswalk (SEGXWALK)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
AADBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp		FALSE		GETDATE()	4
COLOR	Color	0	Color of the crosswalk. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
LOCATION	Location	0	Free-form field for locating the crosswalk.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp		FALSE			4
PAINTTYPE	PaintType	0	Paint type. Must be in the Paint Type table.	Varchar	10	FALSE			2
SEGXWLKKEY	SegmentDetailKey	0	Key to a segment detail. This is a system generated, non-displa	Integer	0	TRUE			1
XWALKTYPE	UnitType	0	Crosswalk type. Must be in the Crosswalk Type table.	Varchar	10	FALSE			2

Priority List

- 1 System Gnerated/Mandatory
- 2 Collected by Contract
- 3 City responsibility
- 4 not nessasarry/system genreated

Required Tables

- Crosswalk Type table
- Paint Type table
- Color table

### ATTACHMENT 3

**Infor Object: SegmentLane(SEGLANE)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp		FALSE		GETDATE()	4
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer		FALSE		1	1
LANETYPE	LaneType	0	Lane type. Must be in the Lane Type table.	Varchar	10	FALSE			2
LENGTH	Length	0	Lane length.	Float8		FALSE			3
LOCATION	Location	0	Free-form field for locating the segment lane.	Varchar	300	FALSE			3
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp		FALSE			4
STPOINT	StartingPoint	0	Starting point measured from intersection.	Float8		FALSE			2
TRAFFDIR	TrafficDirection	0	Traffic direction. Must be in the Direction table.	Varchar	3	FALSE			2
WIDTH	Width	0	Lane width.	Float8		FALSE			2
LANEID	ID	0	Unique identifier for a street segment lane.	Varchar	6	TRUE			1
SEGLANEKEY	LaneKey	0	Key to a segment detail. This is a system generated, non-display, sequ	Integer		TRUE			1

Required Tables

Direction table

### ATTACHMENT 3

#### Infor Object: SEGLinkComponent (SEGLINKCOMPONENT)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
CODE	ComponentType	0	Component type for the inspection type	Varchar	10	FALSE			2
COMPKEY	Asset	0	Unique identifier for the street segment record	Integer	0	FALSE			1
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4

### ATTACHMENT 3

Infor Object: SegmentReflectiveMaterial (SEGREFL)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the reflector. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
LANEKEY	Lane	0	Key to the lane SEGDTLKEY the legend is associated with.	Integer	0	FALSE		1	1
LOCATION	Location	0	Free-form field for locating the reflective material.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
QTY	Quantity	0	Quantity.	Integer	0	FALSE			2
REFLTYPE	ReflectorType	0	Reflector type. Must be in the Reflector Type table.	Varchar	10	FALSE			2
SEGREFLKEY	SegmentDetailKey	0	Key to a segment detail. This is a system generated, non-display, sequential Integer	Integer	0	TRUE			1

Required Tables

Reflector Type table

Color table

### ATTACHMENT 3

**Infor Object: SegmentCurbMarking (SEGCURB)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the curb marking. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
LENGTH	Length	0	Curb marking length.	Float8	0	FALSE			2
LOCATION	Location	0	Free-form field for locating the curb marking.	Varchar	300	FALSE			2
MARKTYPE	MarkingType	0	Curb marking type. Must be in the Curb Marking Type table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Paint type. Must be in the Paint Type Table.	Varchar	10	FALSE			2
SEGCURBKEY	DetailKey	0	Key to a street segment detail. This is a system generated, non-display, sequen	Integer	0	TRUE			1
STPOINT	StartingPoint	0	Starting point measured from intersection.	Float8	0	FALSE			2

Required Tables

- Color table
- Curb Marking Type table
- Paint Type Table

### ATTACHMENT 3

Infor Object: SegmentLegend (SEGLEGND)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the legend. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
LANEKEY	Lane	0	Key to the lane SEGDTLKEY the legend is associated with.	Integer	0	FALSE		1	1
LEGNDDTYPE	LegendType	0	Legend type. Must be in the Legend Type table.	Varchar	10	FALSE			2
LOCATION	Location	0	Free-form field for locating the legend.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Paint type. Must be in the Paint Type table.	Varchar	10	FALSE			2
QTY	Quantity	0	Quantity.	Integer	0	FALSE			3
SEGLGNDKEY	SegmentDetailKey	0	Key to a segment detail. This is a system generated, non-display, sequen	Integer	0	TRUE			1
STPOINT	StartingPoint	0	Starting point measured from intersection.	Float8	0	FALSE			2

Required Tables

- Color table
- Paint Type table
- Legend Type table

### ATTACHMENT 3

Infor Object: SegmentLaneMarking (SEGLNMRK)

Name	Common ID	# of Check Con	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the marking. Must be in the Color table.	Varchar	10	FALSE			3
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE			1
LANEKEY	Lane	0	Key to the lane SEGDTLKEY the legend is associated with.	Integer	0	FALSE			1
LENGTH	Length	0	Length of the lane marking.	Float8	0	FALSE			2
LOCATION	Location	0	Free-form field for locating the lane marking.	Varchar	300	FALSE			2
MARKTYPE	MarkingType	0	Marking type. Must be in the Lane Marking Type table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDate	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Type of paint or marking material used to create the marking. Must be in the Paint Type table.	Varchar	10	FALSE			2
SEGMARKKEY	SegmentDetailKey	0	Key to a segment detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
STPOINT	StartingPoint	0	Starting point of the lane marking measured from intersection.	Float8	0	FALSE			2

Required Tables

- Color table
- Lane Marking Type table
- Paint Type table

### ATTACHMENT 3

Infor Object: StreetSegmentElement (SEGELMNT)

Name	Common ID	# of Check	Column Description	SQL Type	Length	Required	Remarks	Default Va	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE	GETDATE()		4
COMPKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
ELMNTKEY	DetailKey	0	Key to a segment element detail. This is a system generated, non-display, sequential number	Integer	0	TRUE			1
ELMNNTYPE	ElementType	0	Type of segment element. Must be in the Element Table.	Varchar	10	FALSE			2
HT	Height	0	Segment element height.	Float8	0	FALSE			2
LEN	Length	0	Segment element length.	Float8	0	FALSE			2
LOCATION	Location	0	Free-form field for locating the segment element.	Varchar	300	FALSE			2
MATL	Material	0	Material the segment element is constructed of. Must be in the Construction Material Table	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
OFFSET	Offset	0	Segment element offset from the street.	Float8	0	FALSE			2
STPOINT	StartingPoint	0	Starting point measured from intersection.	Float8	0	FALSE			2
TRAFFDIR	TrafficDirection	0	Traffic direction. Must be in the Direction table.	Varchar	3	FALSE			2
WID	Width	0	Segment element width.	Float8	0	FALSE			2

Required Tables

- Element Table
- Construction Material Table
- Direction table

## ATTACHMENT 3

**Infor Object: StreetAppurtenance (COMPAPP)**

Name	Common ID	# of Check	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE	GETDATE()		4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	3
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			3
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located. Must be in the Area Table.	Varchar	10	FALSE			3
AREASZ	AreaSize	0	Physical size of the area occupied by the appurtenance.	Float8	0	FALSE			4
AREASZUOM	AreaSizeUOM	0	Area size unit of measurement.	Varchar	10	FALSE			4
ASBLT	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried ov		3
BLDGFLOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in the BLDGFLOR Table.	Integer	0	FALSE		1	4
BLDGROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be in the BLDGROOM Table.	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COLOR	Color	0	Color of the appurtenance. Must be in the Color Table.	Varchar	10	FALSE			4
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
CT	AppurtenanceCount	0	Count of appurtenances.	Integer	0	FALSE			2
DIAM	Diameter	0	Diameter of the appurtenance.	Float8	0	FALSE			2
DIAMUOM	DiameterUOM	0	Diameter unit of measure.	Varchar	10	FALSE			2
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HT	Height	0	Height of the appurtenance.	Float8	0	FALSE			2
HTUOM	HeightUOM	0	Height unit of measurement.	Varchar	10	FALSE			2
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			3
INTKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
LEN	Length	0	Length of the appurtenance.	Float8	0	FALSE			2
LENUOM	LengthUOM	0	Length unit of measurement.	Varchar	10	FALSE			2
LGHKEY	StreetLight	0	Key to a street light asset.	Integer	0	FALSE		1	1
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			3
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MATL	Material	0	Material the appurtenance is made of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer	0	FALSE		1	2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
MODELNO	ModelNumber	0	Model number of the asset.	Varchar	20	FALSE			2
MOUNHT	MountingHeight	0	Mounting height.	Float8	0	FALSE			2
MOUNHTUOM	MountingHeightUOM	0	Mounting height unit of measurement.	Varchar	10	FALSE			2
MOUNTMATL	MountingMaterial	0	Mounting material. Must be in the Construction Material table.	Varchar	10	FALSE			2
MOUNTTYPE	MountingType	0	Mounting type. Must be in the Sign Mounting Type table.	Varchar	10	FALSE			2
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownership Table.	Varchar	10	FALSE			3
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	3
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
SERNO	SerialNumber	0	Serial number of the asset.	Varchar	20	FALSE			2
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	4
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further describing the asset.	LongVarCharSrc	0	FALSE			4
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is located. Must be in the Sub-area Table.	Varchar	10	FALSE			3
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			4
UNITTYPE	UnitType	0	Specific type of miscellaneous appurtenance. Must be in the Appurtenance Type Table.	Varchar	10	FALSE			2
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	3
WID	Width	0	Width of the appurtenance.	Float8	0	FALSE			2
WIDUOM	WidthUOM	0	Width unit of measurement.	Varchar	10	FALSE			2
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			4
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			4
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			4
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
UNITID	ID	0	Unique identifier for miscellaneous appurtenance assets.	Varchar	20	TRUE			1

Required Tables

- Area Table
- Color Table
- District Table
- Location Table
- Construction Material Table.
- Sign Mounting Type table.
- Ownership Table
- Service Status Table.
- Sub-area Table.
- Appurtenance Type Table



### ATTACHMENT 3

Infor Object: BLinkComponent (BRLINKCOMPONENT)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
CODE	ComponentType	0	Component type for the inspection type	Varchar	10	FALSE			1
COMPKEY	Asset	0	Unique identifier for the street bridge record	Integer	0	FALSE			1
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4

# ATTACHMENT 3

**Info Object: Culvert (COMPCUL)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	4
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			4
ANCHORTYPE	AnchorageType	0	Anchorage Type. Must be in the Street Anchorage Control Type.	Varchar	10	FALSE			2
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located. Must be in the Area Table.	Varchar	10	FALSE			3
ASBLT	AsBult	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been deprecate		4
BLDGFLOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in the BLDGFLOR Table.	Integer	0	FALSE		1	4
BLDGROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be in the BLDGROOM Table.	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
DEBRISCONTROL	DebrisControlMethod	0	Debris Control Method. Must be in the Street Debris Control Method table.	Varchar	10	FALSE			2
DIAM	Diameter	0	Diameter of the Culvert.	Float8	0	FALSE			2
DIAMUOM	DiameterUOM	0	Diameter Unit of Measure. Must be in the Street Unit Of Measure table.	Varchar	10	FALSE			2
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EMBPROTECTIN	EmbankmentProtection	0	Inlet Embankment Protection Type.	Varchar	10	FALSE			3
EMBPROTECTOUT	EmbankmentProtection	0	Outlet Embankment Protection Type	Varchar	10	FALSE			3
ENDESCIN	EndDescriptionInlet	0	Inlet End Treatment Description	Varchar	300	FALSE			3
ENDESCOUT	EndDescriptionOutlet	0	Outlet End Treatment Description	Varchar	300	FALSE			3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HASCONTRIN	HasInletControl	1	Inlet Control	Varchar	1	FALSE			3
HASCONTRLOUT	HasOutletControl	1	Outlet Control	Varchar	1	FALSE			3
HEADDEPTH	HeadwaterDepth	0	Inlet Headwater Depth	Float8	0	FALSE			3
HEADDEPUOM	HeadwaterDepthUOM	0	Inlet Headwater Depth Unit of Measure. Must be in the Street Unit Of Measure table.	Varchar	10	FALSE			3
HEADWIDTH	HeadwaterWidth	0	Inlet Headwater Width.	Float8	0	FALSE			3
HEADWIDUOM	HeadwaterWidthUOM	0	Inlet Headwater Width unit of measure. Must be in the Street Unit of Measure table.	Varchar	10	FALSE			3
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			3
LEN	Length	0	Length of the culvert	Float8	0	FALSE			2
LENUOM	LengthUOM	0	Length Unit Of Measure. Must be in the Street Unit Of Measure table.	Varchar	10	FALSE			2
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			3
MAINTACCESS	MaintenanceAccess	1	Maintenance Access.	Varchar	1	FALSE			3
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MATL	Material	0	Material the culvert is made of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
NUMBARREL	NumberOfBarrels	0	Number of Barrels.	Integer	0	FALSE			2
NUMJOINTS	NumberOfJoints	0	Number of Joints.	Integer	0	FALSE			2
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownership Table.	Varchar	10	FALSE			3
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	4
PRCKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	4
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SHAPE	Shape	0	The shape of the culvert. Must be in the Street Culvert Shape table.	Varchar	10	FALSE			2
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	4
SLOPE	PercentSlope	0	Percent Slope	Float8	0	FALSE			3
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further describing the asset.	LongVarChar	0	FALSE			3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is located. Must be in the Sub-area Table.	Varchar	10	FALSE			3
TAILDEPTH	TailwaterDepth	0	Outlet Tailwater Depth	Float8	0	FALSE			3
TAILDEPUOM	TailwaterDepthUOM	0	Tailwater Depth Unit of Measure. Must be in the Street Unit Of Measure table.	Varchar	10	FALSE			3
TAILWIDTH	TailwaterWidth	0	Outlet Tailwater Width	Float8	0	FALSE			3
TAILWIDUOM	TailwaterWidthUOM	0	Tailwater Sidth Unit of Measure. Must be in the Street Unit of Measure table.	Varchar	10	FALSE			3
TREATTYPEIN	TreatmentTypeInlet	0	The Inlet End Treatment Type.	Varchar	10	FALSE			3
TREATTYPEOUT	TreatmentTypeOutlet	0	The Outlet End Treatment Type.	Varchar	10	FALSE			3
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID	0	Unique identifier for culvert assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType	0	Specific type of Culvert. Must be in the Culvert Type Table.	Varchar	10	FALSE			2
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	4
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

Required Tables

- Area Table.
- Street Debris Control Method table.
- Street Unit Of Measure table
- District Table.
- Location Table.
- Construction Material Table.
- Ownership Table.
- Service Status Table.
- Street Culvert Shape table.
- Sub-area Table.
- Culvert Type Table.

## ATTACHMENT 3

Info Object: Intersection (COMPIN)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy		0 Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime		0 Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address		0 Key to an Address	Integer	0	FALSE		1	4
ADDRQUAL	AddressQualifier		0 Free form field for locating the intersection.	Varchar	300	FALSE			4
AREA	Area		0 Code that identifies the area of the city, county, or district where the unit is located. Must be in the Area Table.	Varchar	10	FALSE			3
ASBLT	AsBuilt		0 As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BGTNO	BudgetNumber		0 Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been		4
BLDGFLOR	BuildingFloor		0 Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in the BLDGFLO Table.	Integer	0	FALSE		1	4
BLDGROOM	BuildingRoom		0 Identifier for the Building Room that can be specified as part of the Site Asset. Must be in the BLDGROOM Table.	Integer	0	FALSE		1	4
BUDGETKEY	Budget		0 Link to resources budget number.	Integer	0	FALSE			4
COMPKEY	AssetKey		0 Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex		0 Key to a complex asset.	Integer	0	FALSE		1	4
DISTRCT	District		0 Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPBY	ExpiredBy		0 Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate		0 Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
GISSTATIC	GISStaticIdentifier		0 GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
INSTDATE	InstalledDate		0 Installation date of the asset.	Timestamp	0	FALSE			3
LOC	Location		0 Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			3
MAPNO	MapNumber		0 Number of the map on which the asset is located.	Varchar	14	FALSE			3
MODBY	LastModifiedBy		0 Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDate		0 Modified Date/Time	Timestamp	0	FALSE			4
OWN	Ownership		0 Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownership Table.	Varchar	10	FALSE			3
POSITION	Position		0 The position of the asset at that address.	Integer	0	FALSE		0	4
PRCLKEY	Parcel		0 Key to a parcel.	Integer	0	FALSE		1	4
SERVSTAT	ServiceStatus		0 Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SITEKEY	Site		0 Key to a site asset.	Integer	0	FALSE		1	4
SPECINST	SpecialInstructions		0 Free-form field describing any special instructions for maintaining, locating, or further describing the asset.	LongVarCharSrch	0	FALSE			3
SUBAREA	SubArea		0 Code that further identifies the area of the city, county, or district where the unit is located. Must be in the Sub-area Table.	Varchar	10	FALSE			3
UNITDESC	UnitDesc		0 A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID		0 Unique identifier for intersection assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType		0 Type of intersection. Must be in the Intersection Type Table.	Varchar	10	FALSE			3
USGAREAKEY	UsageArea		0 Key to a usage area asset.	Integer	0	FALSE		1	4
XCOORD	XCoordinate		0 X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate		0 Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate		0 Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

Required Tables

- Area Table.
- District Table.
- Location Table.
- Ownership Table.
- Service Status Table.
- Sub-area Table.
- Intersection Type Table.

### ATTACHMENT 3

**Infor Object: IntersectionReflectiveMaterial (INREFL)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the reflector. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
INREFLKEY	DetailKey	0	Key to an intersection detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
LOCATION	Location	0	Free-form field for locating the reflector.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
QTY	NumberOfReflectors	0	The number of reflectors.	Integer	0	FALSE			2
REFLTYPE	ReflectorType	0	Reflector type. Must be in the Reflector Type Table.	Varchar	10	FALSE			2

Required Tables

Color table.

Reflector Type Table.

### ATTACHMENT 3

**Infor Object: IntersectionCrosswalk (INXWALK)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the crosswalk. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	Intersection	0	Key to a intersection asset.	Integer	0	FALSE			1
INXWLKKEY	DetailKey	0	Key to an intersection detail. This is a system generated, non-display, sequential	Integer	0	TRUE			1
LOCATION	Location	0	Free-form field for locating the crosswalk.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Paint type. Must be in the Paint Type table.	Varchar	10	FALSE			2
XWALKTYPE	UnitType	0	Crosswalk type. Must be in the Crosswalk Type table.	Varchar	10	FALSE			2

Required Tables

- Color table.
- Paint Type table.
- Crosswalk Type table.

### ATTACHMENT 3

**Infor Object: IntersectionLegend (INLEGND)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the legend. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
INLGNDKEY	DetailKey	0	Key to an intersection detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
LEGNDDTYPE	LegendType	0	Legend type. Must be in the Legend Type table.	Varchar	10	FALSE			2
LOCATION	Location	0	Free-form field for locating the legend.	Varchar	300	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Paint type. Must be in the Paint Type table.	Varchar	10	FALSE			2
QTY	NumberOfLegends	0	The number of legends.	Integer	0	FALSE			2

Required Tables

- Color table.
- Legend Type table.
- Paint Type table.

### ATTACHMENT 3

Infor Object: IntersectionCrossStreet (INXST)

Name	Common ID	# of Check Cc	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COMPKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
INXSTKEY	DetailKey	0	Key to an intersection detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
SEGKEY	StreetSegment	0	Key to a street segment if the segment field has been specified on the Cross Streets Entry form. This column is not currently used	Integer	0	FALSE		1	4
STKEY	Street	0	Key to a street. This is saved for all entries to the Cross Streets Entry form.	Integer	0	FALSE		1	4

## ATTACHMENT 3

Infor Object: IntersectionMarking (INLNMRK)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COLOR	Color	0	Color of the marking. Must be in the Color table.	Varchar	10	FALSE			2
COMPKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
INMARKKEY	DetailKey	0	Key to an intersection detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
LENGTH	Length	0	Length of the marking.	Float8	0	FALSE			2
LOCATION	Location	0	Free-form field for locating the marking.	Varchar	300	FALSE			2
MARKTYPE	MarkingType	0	Marking type. Must be in the Lane Marking Type table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
PAINTTYPE	PaintType	0	Type of paint or marking material used to create the marking. Must be in the Paint Type table.	Varchar	10	FALSE			2

Required Tables

- Color table.
- Lane Marking Type table.
- Paint Type table.

# ATTACHMENT 3

Infor Object: StreetLight (COMPLIGHT)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ACCTYPE	ControlsAccessType	0	The type of access to the controls for a street light. Must be in the Access Type Table.	Varchar	10	FALSE			3
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	4
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			4
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located. Must be in the	Varchar	10	FALSE			3
ASBLT	ASBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been deprecated in favor of		4
BLDGFLOOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in the BLDGI	Integer	0	FALSE		1	4
BLDGROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be in the BLDG	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
CABDIAM	CableDiameter	0	The diameter of the power cable.	Float8	0	FALSE			2
CABLOWN	CableOwner	0	The owner of the power cable. Must be in the Cable Owner table.	Varchar	10	FALSE			3
CABLTYPE	CableType	0	The type of the power cable. Must be in the Cable Type table.	Varchar	10	FALSE			3
COLOR	Color	0	Color of the appurtenance. Must be in the Color Table.	Varchar	10	FALSE			2
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
CONTACT	ContractorContact	0	Contractor responsible for maintenance on the street light.	Integer	0	FALSE		1	3
CTRLBYKEY	ControlledBy	0	The asset a street light is powered off of. This will be either Equipment or Street Light.	Integer	0	FALSE		1	3
CTRLLOC	ControlLocation	0	The location of the control equipment. Must be in the Light Control Loc table.	Varchar	10	FALSE			2
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPHY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
EXPECTLIFE	ExpectedLife	0	Expected life of the asset.	Short	0	FALSE			3
EXPECTLIFEUOM	ExpectedLifeUOM	0	Unit of measure for the expected life.	Varchar	10	FALSE			3
FOUNDATION	Foundation	0	Type of foundation supporting the light pole. Must be in the Foundation Type Table.	Varchar	10	FALSE			2
FUSETYPE	FuseType	0	The type of fuse for a street light. Must be in the Fuse Type table.	Varchar	10	FALSE			3
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HT	Height	0	Height of the pole.	Float8	0	FALSE			2
HTUOM	HeightUOM	0	Height of the pole unit of measure.	Varchar	10	FALSE			2
ILLUMBULB	BulbType	0	The type of bulb used used for the street light. Must be in the Luminary/Bulb Type Code Table. No	Varchar	10	FALSE			3
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			4
INTKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	3
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			3
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MFGDATE	ManufacturedDate	0	Manufactured Date	Timestamp	0	FALSE			3
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer	0	FALSE		1	3
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			2
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			2
MODELNO	ModelNumber	0	Model number of the asset.	Varchar	20	FALSE			3
MTBF	MeanTimeBetweenFailures	0	Mean time between failures.	Integer	0	FALSE			3
MTBFUOM	MeanTimeBetweenFailuresU	0	Unit of measure for the mean time between failures.	Varchar	10	FALSE			3
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownership Table.	Varchar	10	FALSE			3
PAINTTYPE	PaintType	0	Type of paint the street light is painted with. Must be in the Paint Type Table.	Varchar	10	FALSE			2
POLECLASS	PoleClass	0	Class of pole the light is attached to. Must be in the Pole Class Table.	Varchar	10	FALSE			2
POLEDIAM	Diameter	0	Diameter of the pole.	Float8	0	FALSE			2
POLEDIAMUOM	DiameterUOM	0	Pole diameter unit of measure.	Varchar	10	FALSE			2
POLEKEY	Pole	0	Key to a pole asset. This is unused at this time (06/14/96).	Integer	0	FALSE		1	3
POLEMATL	Material	0	The material the pole is constructed of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
POLESHAPE	Shape	0	Shape of pole. Must be in the Pole Shape Table.	Varchar	10	FALSE			2
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	4
POWRACCT	PowerSupplierAccountNum	0	The power supplier account number for a light. Must be in the Ownership Table.	Varchar	24	FALSE			3
POWRBYKEY	PoweredByAsset	0	The asset a street light is powered off of. This will be either Equipment, Signal, or Street Light.	Integer	0	FALSE		1	3
POWRMTRKEY	PowerMeter	0	The power meter for a street light.	Integer	0	FALSE		1	3
POWRSUPL	PowerSupplier	0	The utility which supplies power for this light. Must be in the Power Supplier table.	Varchar	10	FALSE			3
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	3
PURCDATE	Purchased	0	Purchased Date	Timestamp	0	FALSE			3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	3
SERNO	SerialNumber	0	Serial number of the asset.	Varchar	20	FALSE			3
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	4
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further describing th	LongVarChar5ch	0	FALSE			3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is located. Must	Varchar	10	FALSE			3
TIMEROWN	TimerOwner	0	The owner of the timer for a street light. Must be in the Timer Owner table.	Varchar	10	FALSE			3
TIMERSCHED	TimerSchedule	0	The code for the schedule specifying when a street light is to be on. Must be in the Timer Schedule	Varchar	10	FALSE			3
TIMERTYPE	TimerType	0	The type of timer for a street light. Must be in the Timer Type table.	Varchar	10	FALSE			3
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID	0	Unique identifier for street light assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType	0	Specific type of street light. Must be in the Street Light Type Table.	Varchar	10	FALSE			2
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	4
USGTOT	TotalUsage	0	Total usage of the asset.	Float8	0	FALSE			3
USGTOTUOM	TotalUsageUOM	0	Unit of measure for the total usage.	Varchar	10	FALSE			3
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

Required Tables

- Color table.
- Lane Marking Type table.
- Paint Type table.

### ATTACHMENT 3

**Infor Object: NameplateInformation (COMPNAME)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COMPKEY	Asset	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
NPCODE	NamePlate	0	The name plate code. Must be in the Name Plate table.	Varchar	10	TRUE			1
NPVALUE	Value	0	The name plate data.	Varchar	20	FALSE			2

### ATTACHMENT 3

Infor Object: LightBracket (LGHTBRKT)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
BRKTKEY	LightBracketKey	0	Key to a street light bracket. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
BRKTNO	BracketNumber	0	Unique bracket number for the light.	Varchar	16	TRUE			1
BRKTTYPE	Type	0	Type of bracket. Must be in the Bracket Table.	Varchar	10	FALSE			2
COMPKEY	StreetLight	0	Key to a street light asset.	Integer	0	FALSE		1	1
INSTDATE	InstalledDate	0	Installation date of the light bracket.	Timestamp	0	FALSE			3
MATL	Material	0	The material the bracket is constructed of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
MOUNHTHT	MountingHeight	0	Mounting Height of the bracket.	Float8	0	FALSE			2
PROJ	Project	0	Projection of the bracket.	Float8	0	FALSE			2

### ATTACHMENT 3

Infor Object: LightLuminair (LGHTLUM)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy		0 Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime		0 Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
BALTYPE	BallastType		0 Type of ballast. Must be in the Ballast Type Table.	Varchar	10	FALSE			2
BRKTKEY	LightBracket		0 Key to a street light bracket.	Integer	0	FALSE		1	1
CIRCWATT	CircuitWattage		0 The wattage of the lamp circuit.	Integer	0	FALSE			2
COMPKEY	StreetLight		0 Key to a street light asset.	Integer	0	FALSE		1	1
DISTTYPE	DistributionType		0 Type of distribution used by the luminair. Must be in the Distribution Type Table.	Varchar	10	FALSE			2
HOLDERTYPE	HolderType		0 Type of holder used by the luminair to secure the lamp. Must be in the Lamp Holder Type Table.	Varchar	10	FALSE			2
INSTDATE	InstalledDate		0 Installation date of the light luminaire.	Timestamp	0	FALSE			3
LAMPMDL	LampModel		0 The model of the lamp.	Varchar	20	FALSE			2
LAMPMFGKEY	LampManufacturer		0 Key to a lamp manufacturer.	Integer	0	FALSE		1	2
LAMPNO	NumberOfLamps		0 Number of lamps.	Integer	0	FALSE			2
LAMPSTYPE	LampType		0 The type of lamp used used for the street light. Must be in the Luminary/Lamp Type Table.	Varchar	10	FALSE			2
LAMPWATT	LampWattage		0 The wattage of the lamp.	Integer	0	FALSE			2
LUMKEY	LuminairKey		0 Key to a street light luminair. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
LUMMDL	LuminairModel		0 The model of the luminair	Varchar	20	FALSE			2
LUMMFGKEY	Manufacturer		0 Key to a luminair manufacturer.	Integer	0	FALSE		1	2
LUMNO	LuminairNumber		0 Unique luminair number for the light.	Varchar	16	TRUE			1
LUMTYPE	LuminairType		0 Type of luminair. Must be in the Luminair Type Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy		0 Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime		0 Modified Date/Time	Timestamp	0	FALSE			4

### ATTACHMENT 3

Infor Object: Sidewalk (COMPSW)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	4
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			4
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located.	Mu Varchar	10	FALSE			3
ASBLT	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been depre		4
BLDGFLOOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be in	Integer	0	FALSE		1	4
BLDGRROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be i	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COLOR	Color	0	Color of the sidewalk. Must be in the Color Table.	Varchar	10	FALSE			2
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
CURBTYPE	CurbType	0	Type of curb/gutter structure paralleling the sidewalk. Must be in the Curb Type Table.	Varchar	10	FALSE			2
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
FILLERTYPE	FillerStripType	0	Type of filler strip between the curb and sidewalk. Must be in the Filler Type Table.	Varchar	10	FALSE			2
FILLERWID	FillerStripWidth	0	Width of the filler strip between the curb and sidewalk.	Float8	0	FALSE			2
FILLERWIDUOM	FillerStripWidthUOM	0	Filler width unit of measurement.	Varchar	10	FALSE			2
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HT	Height	0	Height of the sidewalk above ground level or street.	Float8	0	FALSE			2
HTUOM	HeightUOM	0	Sidewalk height unit of measurement	Varchar	10	FALSE			2
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			3
INTKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	3
LEN	Length	0	Length of the sidewalk.	Float8	0	FALSE			2
LENUOM	LengthUOM	0	Sidewalk length unit of measurement.	Varchar	10	FALSE			2
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			4
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MATL	Material	0	Material the sidewalk is made of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownershi	Varchar	10	FALSE			3
PEDTRAFFIC	PedestrianTraffic	1	The amount of pedestrian traffic the sidewalk receives. Must be in the 'L'ow, 'M'edium, 'V	Varchar	1	FALSE			3
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	4
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	3
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	4
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further de	LongVarChar	0	FALSE			3
STSIDE	SideOfStreet	0	Side of the street the sidewalk is located. Must be in the Direction Table.	Varchar	3	FALSE			2
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is locat	Varchar	10	FALSE			3
SURFTYPE	SurfaceType	0	Surface type. Must be in the Surface Type table.	Varchar	10	FALSE			2
THICKNESS	Thickness	0	Thickness of the sidewalk.	Float8	0	FALSE			2
THICKNESSUOM	ThicknessUOM	0	Sidewalk thickness unit of measurement.	Varchar	10	FALSE			2
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID	0	Unique identifier for sidewalk assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType	0	Specific type of sidewalk. Must be in the Sidewalk Type Table.	Varchar	10	FALSE			2
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	4
WID	Width	0	Width of the sidewalk.	Float8	0	FALSE			2
WIDUOM	WidthUOM	0	Sidewalk width unit of measurement.	Varchar	10	FALSE			2
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

### ATTACHMENT 3

Infor Object: SidewalkElement (SWELMNT)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COMPKEY	Sidewalk	0	Key to a sidewalk asset.	Integer	0	FALSE		1	1
ELMNTKEY	SidewalkElementKey	0	Key to a sidewalk element detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
ELMNTTYPE	ElementType	0	Type of sidewalk element. Must be in the Element Table.	Varchar	10	FALSE			2
HT	Height	0	Sidewalk element height.	Float8	0	FALSE			2
LEN	Length	0	Sidewalk element length.	Float8	0	FALSE			2
LOCATION	Location	0	Free-form field for locating the sidewalk element.	Varchar	300	FALSE			2
MATL	Material	0	Material the sidewalk element is constructed of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
OFFSET	Offset	0	Sidewalk element offset from the street.	Float8	0	FALSE			2
STPOINT	StartingPoint	0	Starting point measured from the beginning of the sidewalk.	Float8	0	FALSE			2
WID	Width	0	Sidewalk element width.	Float8	0	FALSE			2

## ATTACHMENT 3

Infor Object: StreetSign (COMPSIGN)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	4
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			4
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located.	Varchar	10	FALSE			3
ASBLT	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BASETYPE	BaseType	0	Base type. Must be in the Sign Base Type table.	Varchar	10	FALSE			2
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been deprecated i		3
BKGRNCOLOR	BackgroundColor	0	The color of the background on the sign. Must be in the Color table.	Varchar	10	FALSE			2
BLANKMATL	BlankMaterial	0	The material of the sign's blank (backing.) Must be in the Construct Material table.	Varchar	10	FALSE			2
BLDGFLOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must	Integer	0	FALSE		1	4
BLDGRROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
CUSTOM	IsCustom	1	Flag indicating if the sign is custom made as opposed to a mass produced/standard s	Varchar	1	FALSE			3
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
FACEMATL	FaceMaterial	0	The material of the sign's face. Must be in the Construct Material table.	Varchar	10	FALSE			2
FACING	FacingDirection	0	The direction the sign is facing. Must be in the Direction table.	Varchar	3	FALSE			2
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HORIZCLEAR	HorizontalClearance	0	Free form field indicating the amount of horizontal clearance between the sign and e	Varchar	12	FALSE			3
HORIZFROM	HorizontalClearanceFrom	0	Free form field identifying the object that is cause for limited horizontal clearance.	Varchar	12	FALSE			3
ILLUMBULB	BulbType	0	The type of bulb used for the sign's illumination. Must be in the Luminary/Bulb Type	Varchar	10	FALSE			3
ILLUMTYPE	IlluminationType	0	The type of illumination for the sign. Must be in the Sign Illumination Type table.	Varchar	10	FALSE			3
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			3
INTKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	1
LGHTKEY	StreetLight	0	Key to street light asset.	Integer	0	FALSE		1	1
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table	Varchar	10	FALSE			3
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer	0	FALSE		1	2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
MOUNHTH	MountingHeight	0	Mounting height.	Float8	0	FALSE			2
MOUNHTHUOM	MountingHeightUOM	0	Mounting height unit of measurement.	Varchar	10	FALSE			2
MOUNTMATL	MountingMaterial	0	Mounting material. Must be in the Construction Material table.	Varchar	10	FALSE			2
MOUNTTYPE	MountingType	0	Mounting type. Must be in the Sign Mounting Type table.	Varchar	10	FALSE			2
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownr	Varchar	10	FALSE			3
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	2
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	3
REFLCOAT	ReflectiveCoating	0	The type of reflective coating on the sign's face. Must be in the Sign Reflective Coatir	Varchar	10	FALSE			2
REFLRAT	ReflectiveRating	0	The reflective rating of the sign's face.	Short	0	FALSE			3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	1
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SIGNCT	NumberOfSigns	0	Indicates the number of signs at the sign location (on the same support.)	Short	0	FALSE			2
SIGNSZ	Size	0	Physical size of the sign.	Varchar	15	FALSE			2
SIGNTEXT	SignText	0	Free form field indicating the wording on the sign.	Varchar	300	FALSE			2
SIGNTYPE	SignType	0	Sign type (e.g., Stop, Merge, Speed Limit). Must be in the Sign Type table.	Varchar	10	FALSE			2
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	1
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or furth	LongVarCharScri	0	FALSE			3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is li	Varchar	10	FALSE			3
SUPPID	SupportID	0	The identifier for the sign's support.	Varchar	10	FALSE			1
SUPPMATL	SupportMaterial	0	Support material for the sign. Must be in the Construct Material table.	Varchar	10	FALSE			2
SUPPTYPE	SupportType	0	Support type for the sign. Must be in the Sign Support Type table.	Varchar	10	FALSE			2
SYMBL	Symbol	0	Free form field indicating the symbol on the sign.	Varchar	10	FALSE			2
SYMBLCOLOR	SymbolColor	0	The color of the symbol on the sign. Must be in the Color table.	Varchar	10	FALSE			2
SYMBLSZ	SymbolSize	0	Free form field indicating the size of the symbol on the sign.	Varchar	10	FALSE			2
TEXTCOLOR	TextColor	0	The color of the text on the sign. Must be in the Color table.	Varchar	10	FALSE			2
TEXTSZ	TextSize	0	Free form field indicating the size of the text on the sign.	Varchar	10	FALSE			2
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID	0	Unique identifier for street sign assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType	0	Classification of street sign (e.g., Traffic, Regulatory, Warning). Must be in the Sign C	Varchar	10	FALSE			2
USGAREKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	1
VERTCLEAR	VerticalClearance	0	Free form field indicating the amount of vertical clearance between the sign and an c	Varchar	12	FALSE			3
VERTFROM	VerticalClearanceFrom	0	Free form field identifying the object that is cause for limited vertical clearance.	Varchar	12	FALSE			3
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

### ATTACHMENT 3

**Infor Object: SecondaryStreetSign (SCNDSIGN)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
BKGRNCOLOR	BackgroundColor	0	The color of the background on the sign. Must be in the Color table.	Varchar	10	FALSE			2
BLANKMATL	BlankMaterial	0	The material of the sign's blank (backing.) Must be in the Construct Material table.	Varchar	10	FALSE			2
CUSTOM	IsCustom	0	Indicates if the sign is custom made as opposed to a mass produced/standard sign.	Varchar	1	FALSE			3
FACEMATL	FaceMaterial	0	The material of the sign's face. Must be in the Construct Material table.	Varchar	10	FALSE			2
FACING	FacingDirection	0	The direction the sign is facing. Must be in the Direction table.	Varchar	3	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
MOUNTTYPE	MountingType	0	Mounting type. Must be in the Sign Mounting Type table.	Varchar	10	FALSE			2
REFLCOAT	ReflectiveCoating	0	The type of reflective coating on the sign's face. Must be in the Sign Reflective Coating table.	Varchar	10	FALSE			2
REFLRAT	ReflectiveRating	0	The reflective rating of the sign's face.	Short	0	FALSE			3
SCNDKEY	SecondarySign	0	Key to the secondary sign. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
SIGNKEY	PrimarySign	0	Key to the sign this secondary sign is associated with.	Integer	0	FALSE		1	1
SIGNSZ	Size	0	Physical size of the sign.	Varchar	15	FALSE			2
SIGNTEXT	SignText	0	Free form field indicating the wording on the sign.	Varchar	300	FALSE			2
SIGNTYPE	SignType	0	Sign type. Must be in the Sign Type Table.	Varchar	10	FALSE			2
SYMBL	Symbol	0	Free form field indicating the symbol on the sign.	Varchar	10	FALSE			2
SYMBLCOLOR	SymbolColor	0	The color of the symbol on the sign. Must be in the Color table.	Varchar	10	FALSE			2
SYMBLSZ	SymbolSize	0	Free form field indicating the size of the symbol on the sign.	Varchar	10	FALSE			2
TEXTCOLOR	TextColor	0	The color of the text on the sign. Must be in the Color table.	Varchar	10	FALSE			2
TEXTSZ	TextSize	0	Free form field indicating the size of the text on the sign.	Varchar	10	FALSE			2
UNITTYPE	UnitType	0	Classification of street sign. Must be in the Sign Class Table.	Varchar	10	FALSE			2

## ATTACHMENT 3

Infor Object: StreetSignal (COMPSGNL)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ACCHOLDATE	AccessHoleInstalledDate	0	Date the access hole was installed.	Timestamp		0	FALSE		3
ACCHOLDIAM	AccessHoleDiameter	0	Diameter of the access hole.	Float8		0	FALSE		3
ACCHOLDIAMUOM	AccessHoleDiameterUOM	0	Access hole diameter unit of measurement.	Varchar		10	FALSE		3
ACCHOLDPTH	AccessHoleDepth	0	Depth of the access hole.	Float8		0	FALSE		3
ACCHOLDPTHUOM	AccessHoleDepthUOM	0	Access hole depth unit of measurement.	Varchar		10	FALSE		3
ACCHOLLOC	AccessHoleLocation	0	Free form field for locating the access hole.	Varchar		300	FALSE		3
ACCHOLNO	AccessHoleNumber	0	Access hole number.	Varchar		8	FALSE		3
ACCHOLTYPE	AccessHoleType	0	Access hole type. Must be in the Access Hole Type Table.	Varchar		10	FALSE		3
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar		30	FALSE		4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp		0	FALSE	GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer		0	FALSE		1
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar		300	FALSE		4
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located.	M_Varchar		10	FALSE		3
ASBLT	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar		10	FALSE		3
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar		24	FALSE	This column was carried over from V7 and has been deprecated in f	4
BLDGFLOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be i	Integer		0	FALSE		1
BLDGROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be	Integer		0	FALSE		1
BUDGETKEY	Budget	0	Link to resources budget number.	Integer		0	FALSE		4
CABCNST	CabinetConstruction	0	Cabinet construction. Must be in the Cabinet Construct Table.	Varchar		10	FALSE		3
CABTYPE	CabinetType	0	Cabinet type. Must be in the Cabinet Type Table.	Varchar		10	FALSE		3
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer		0	FALSE		1
CONFMNTR	ConflictMonitor	0	Key to Equipment ID of the conflict monitor in the signal cabinet.	Integer		0	FALSE		1
DETECTRACK	DetectorRack	0	Key to Equipment ID of the detector rack in the signal cabinet.	Integer		0	FALSE		1
DIALS	NumberOfDials	0	Number of dials in the signal cabinet.	Short		0	FALSE		2
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar		10	FALSE		3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar		12	FALSE		4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp		0	FALSE		4
EXPECTLIFE	ExpectedLife	0	Expected life of the asset.	Short		0	FALSE		3
EXPECTLIFEUOM	ExpectedLifeUOM	0	Unit of measure for the expected life.	Varchar		10	FALSE		3
EXTCLOCK	IsExternalClock	1	Flag indicating if there is an external clock on the signal cabinet.	Varchar		1	FALSE		3
FILTERSZ	FilterSize	0	Size of filter in the signal cabinet. Must be in the Cabinet Filter Size Table.	Varchar		10	FALSE		3
FLASHER	FlasherType	0	Flasher type. Must be in the Flasher Type Table.	Varchar		10	FALSE		3
FLASHFROM	FlashFromTime	0	Time of day the signal starts running in flash mode.	Timestamp		0	FALSE		3
FLASHTO	FlashToTime	0	Time of day the signal stops running in flash mode.	Timestamp		0	FALSE		3
FOUNDATION	Foundation	0	Type of foundation for the signal cabinet. Must be in the Foundation Type Table.	Varchar		10	FALSE		3
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer		0	FALSE		4
INSTDATE	InstalledDate	0	Installation date of the signal cabinet.	Timestamp		0	FALSE		4
INTKEY	Intersection	0	Key to an intersection asset.	Integer		0	FALSE		1
LOADSWITCH	LoadSwitch	0	Load switch.	Short		0	FALSE		3
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar		10	FALSE		3
LOCALCTRL	LocalController	0	Key to Equipment ID of the local controller in the signal cabinet.	Integer		0	FALSE		1
LOCATOR	Locator	0	Free form field for locating the signal.	Varchar		300	FALSE		3
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar		14	FALSE		3
MASTERCTRL	MasterController	0	Key to Equipment ID of the master controller in the signal cabinets.	Integer		0	FALSE		1
MFGDATE	ManufactureDate	0	Manufactured Date	Timestamp		0	FALSE		3
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer		0	FALSE		1
MODBY	LastModifiedBy	0	Modified By	Varchar		30	FALSE		3
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp		0	FALSE		3
MODEM	Modem	0	Key to Equipment ID of the modem in the signal cabinets.	Integer		0	FALSE		1
MOUNT	MountType	0	Type of mounting used to attach the signal cabinet to the foundation. Must be in the M	Varchar		10	FALSE		3
MTBF	MeanTimeBetweenFailures	0	Mean time between failures.	Integer		0	FALSE		3
MTBFUOM	MeanTimeBetweenFailuresUO	0	Unit of measure for the mean time between failures.	Varchar		10	FALSE		3
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Ownersl	Varchar		10	FALSE		3
PEDBUTTONS	HasPedestrianButtons	1	Flag indicating if the signal has pedestrian buttons.	Varchar		1	FALSE		3
PHONEWIRE	HasPhoneWire	1	Flag indicating if there is a telephone wire running to the signal cabinet.	Varchar		1	FALSE		3
POSITION	Position	0	The position of the asset at that address.	Integer		0	FALSE		0
PRCLKEY	Parcel	0	Key to a parcel.	Integer		0	FALSE		1
PREEMPT1	PreemptionDevice1	0	Pre-emption device 1.	Varchar		8	FALSE		3
PREEMPT2	PreemptionDevice2	0	Pre-emption device 2.	Varchar		8	FALSE		3
PURCDATE	Purchased	0	Purchased Date	Timestamp		0	FALSE		3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer		0	FALSE		1
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar		10	FALSE		3
SITEKEY	Site	0	Key to a site asset.	Integer		0	FALSE		1
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further d	LongVarCharSrc		0	FALSE		3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is loca	Varchar		10	FALSE		3
TBC	TimeBaseConverter	0	Key to Equipment ID of the time base converter in the signal cabinets.	Integer		0	FALSE		1
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar		300	FALSE		3
UNITTYPE	UnitType	0	Type of signal. Must be in the Signal Type Table.	Varchar		10	FALSE		3
USGAREAKY	UsageArea	0	Key to a usage area asset.	Integer		0	FALSE		1
USGTOT	TotalUsage	0	Total usage for the asset.	Float8		0	FALSE		3
USGTOTUOM	TotalUsageUOM	0	Unit of measure for the total usage.	Varchar		10	FALSE		3
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8		0	FALSE		3
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8		0	FALSE		3
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8		0	FALSE		3
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer		0	TRUE		1
UNITID	ID	0	Unique identifier for signal assets.	Varchar		20	TRUE		1

### **ATTACHMENT 3**

See tab "Light Name Plate"

### ATTACHMENT 3

**Infor Object: StreetSignalSensor (SGNLSSENS)**

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COMPKEY	Signal	0	Key to a signal asset.	Integer	0	FALSE		1	1
DETECTCT	NumberOfDetectors	0	Count of detectors for one direction in an intersection.	Short	0	FALSE			3
DETECTDIR	TrafficDirection	0	Traffic direction. Must be in the Direction Table.	Varchar	3	FALSE			3
DETECTTYPE	DetectorType	0	Detector type. Must be in the Detector Type Table.	Varchar	10	FALSE			3
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDDTTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
SGNLDTLKEY	SignalDetailKey	0	Key to a signal detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1

### ATTACHMENT 3

Infor Object: StreetSignalPole (SGNLPOLE)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ARMTYPE	ArmType	0	Type of arm on the pole. Must be in the Pole Arm Type Table.	Varchar	10	FALSE			2
CATENARYCT	NumberOfCatenaries	0	Number of catenaries on the signal pole.	Short	0	FALSE			2
COMPKEY	Signal	0	Key to a signal asset.	Integer	0	FALSE		1	1
FOUNDATION	Foundation	0	Type of foundation supporting the signal pole. Must be in the Foundation Type Table.	Varchar	10	FALSE			2
HT	Height	0	Height of the signal pole.	Float8	0	FALSE			2
INSTDATE	InstalledDate	0	Installation date of the signal pole.	Timestamp	0	FALSE			3
LEN	Length	0	Length of the signal pole.	Float8	0	FALSE			2
LGHTTYPE	StreetLightType	0	Type of light on the signal pole. Must be in the Street Light Type Table.	Varchar	10	FALSE			2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
POLEMATL	Material	0	The material the pole is constructed of. Must be in the Construction Material Table.	Varchar	10	FALSE			2
POLENO	PoleNumber	0	Unique pole number for the signal.	Varchar	16	TRUE			1
POLESHAPE	Shape	0	Shape of pole. Must be in the Pole Shape Table.	Varchar	10	FALSE			2
SGNLDLKEY	DetailKey	0	Key to a signal detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
SPANCT	NumberOfSpans	0	Number of spans on the signal pole.	Short	0	FALSE			2
TETHERCT	NumberOfTethers	0	Number of tethers on the signal pole.	Short	0	FALSE			2

### ATTACHMENT 3

Infor Object: StreetSignalHead (SGNLHD)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
COMPKEY	Signal	0	Key to a signal asset.	Integer	0	FALSE		1	1
COMPTYPE	AssetType	0	Free form field for specifying the type of intersection asset.	Varchar	8	FALSE			3
HEADNO	HeadNumber	0	Unique head number for the signal.	Varchar	16	TRUE			1
HEADTYPE	SignalHeadType	0	Type of signal head. Must be in the Signal Head Type Table.	Varchar	10	FALSE			2
INSTDATE	InstalledDate	0	Installation date of the signal head.	Timestamp	0	FALSE			3
LAYOUT	Layout	1	Flag indicating if the signal head's layout is 'V' = vertical or 'H' = horizontal.	Varchar	1	FALSE			2
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer	0	FALSE		1	2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
MOUNT	MountType	0	Type of mounting used to attach the signal head to the pole. Must be in the Mount Type Table.	Varchar	10	FALSE			2
POLEKEY	Pole	0	Key to the signal pole SGNLDTLKEY the head is associated with.	Integer	0	FALSE		1	1
SGNLDTLKEY	SignalDetailKey	0	Key to a signal detail. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
STROBE	IsStrobe	1	Flag indicating if the signal head utilizes a strobe effect.	Varchar	1	FALSE			2
TRAFFDIR	TrafficDirection	0	Traffic direction the signal head is serving. Must be in the Direction Table.	Varchar	3	FALSE			2

### ATTACHMENT 3

Infor Object: Support (COMPSUP)

Name	Common ID	# of Check Constraints	Column Description	SQL Type	Length	Required	Remarks	Default Value	Priority
ADDBY	AddedBy	0	Login name of the person who added the record.	Varchar	30	FALSE			4
ADDDTTM	AddedDateTime	0	Added Date/Time	Timestamp	0	FALSE		GETDATE()	4
ADDRKEY	Address	0	Key to an address.	Integer	0	FALSE		1	3
ADDRQUAL	AddressQualifier	0	Free form field to indicate other information to assist in location of the asset.	Varchar	300	FALSE			3
AREA	Area	0	Code that identifies the area of the city, county, or district where the unit is located. N	Varchar	10	FALSE			3
ASBLT	AsBuilt	0	As-built map number assigned to the asset when it was constructed.	Varchar	10	FALSE			3
BASETYPE	BaseType	0	Base type. Must be in the Sign Base Type table.	Varchar	10	FALSE			2
BGTNO	BudgetNumber	0	Budget number of the asset. Must be in the Budget Number Table.	Varchar	24	FALSE	This column was carried over from V7 and has been deprecated i		4
BLDGFLOR	BuildingFloor	0	Identifier for the Building Floor that can be specified as part of the Site Asset. Must be	Integer	0	FALSE		1	4
BLDGRROOM	BuildingRoom	0	Identifier for the Building Room that can be specified as part of the Site Asset. Must be	Integer	0	FALSE		1	4
BUDGETKEY	Budget	0	Link to resources budget number.	Integer	0	FALSE			4
COMPKEY	AssetKey	0	Key to an asset. This is a system generated, non-display, sequential number.	Integer	0	TRUE			1
COMPLEXKEY	Complex	0	Key to a complex asset.	Integer	0	FALSE		1	4
DISTRICT	District	0	Code that further identifies the location of the asset. Must be in the District Table.	Varchar	10	FALSE			3
EXPBY	ExpiredBy	0	Code for the employee who expired the asset.	Varchar	12	FALSE			4
EXPDATE	ExpireDate	0	Date the entry is no longer valid for entry in the system.	Timestamp	0	FALSE			4
GISSTATIC	GISStaticIdentifier	0	GIS static identifier used for interfacing with mapping systems.	Integer	0	FALSE			4
HORIZCLEAR	HorizontalClearance	0	Free form field indicating the amount of horizontal clearance between the support and	Varchar	12	FALSE			2
HORIZFROM	HorizontalClearanceFrom	0	Free form field identifying the object that is cause for limited horizontal clearance.	Varchar	12	FALSE			2
INSTDATE	InstalledDate	0	Installation date of the asset.	Timestamp	0	FALSE			4
INTKEY	Intersection	0	Key to an intersection asset.	Integer	0	FALSE		1	4
LOC	Location	0	Code used to indicate the physical location of the unit. Must be in the Location Table.	Varchar	10	FALSE			4
MAPNO	MapNumber	0	Number of the map on which the asset is located.	Varchar	14	FALSE			3
MFGKEY	Manufacturer	0	Key to a manufacturer.	Integer	0	FALSE		1	2
MODBY	LastModifiedBy	0	Modified By	Varchar	30	FALSE			4
MODDTM	LastModifiedDateTime	0	Modified Date/Time	Timestamp	0	FALSE			4
OWN	Ownership	0	Ownership of the asset, such as municipal, county, district, etc. Must be in the Owners	Varchar	10	FALSE			3
POSITION	Position	0	The position of the asset at that address.	Integer	0	FALSE		0	3
PRCLKEY	Parcel	0	Key to a parcel.	Integer	0	FALSE		1	3
SEGKEY	StreetSegment	0	Key to a street segment asset.	Integer	0	FALSE		1	3
SERVSTAT	ServiceStatus	0	Indicates the operational status of the asset. Must be in the Service Status Table.	Varchar	10	FALSE			3
SITEKEY	Site	0	Key to a site asset.	Integer	0	FALSE		1	4
SPECINST	SpecialInstructions	0	Free-form field describing any special instructions for maintaining, locating, or further c	LongVarCharSi	0	FALSE			3
SUBAREA	SubArea	0	Code that further identifies the area of the city, county, or district where the unit is loc	Varchar	10	FALSE			3
SUPMATL	SupportMaterial	0	Support Material. Must be in the Support Material table.	Varchar	10	FALSE			2
UNITDESC	UnitDesc	0	A 300 character free form field for a detailed description of the asset.	Varchar	300	FALSE			3
UNITID	ID	0	Unique identifier for street support assets.	Varchar	20	TRUE			1
UNITTYPE	UnitType	0	Type of Support. Must be in the Support Type Table.	Varchar	10	FALSE			2
USGAREAKEY	UsageArea	0	Key to a usage area asset.	Integer	0	FALSE		1	4
VERTCLEAR	VerticalClearance	0	Free form field indicating the amount of vertical clearance between the support and ar	Varchar	12	FALSE			2
VERTFROM	VerticalClearanceFrom	0	Free form field identifying the object that is cause for limited vertical clearance.	Varchar	12	FALSE			2
XCOORD	XCoordinate	0	X (latitude) coordinate for the asset.	Float8	0	FALSE			2
YCOORD	YCoordinate	0	Y (longitude) coordinate for the asset.	Float8	0	FALSE			2
ZCOORD	ZCoordinate	0	Z (elevation) coordinate for the asset.	Float8	0	FALSE			2

**Attachment 4**

**Authorization to Legally Bind Proposer**

**The person executing this Proposal and the instruments referred to herein on behalf of the Proposer has the legal power, right, and actual authority to submit this Proposal, and to bind the Proposer to the terms and conditions of this Proposal.**

\_\_\_\_\_  
**(Signature of person authorized to bind Proposer)      Dated**

\_\_\_\_\_  
**Print Name of Person signing as authorized to bind Proposer**

\_\_\_\_\_  
**Title of Person signing as authorized to bind Proposer**

\_\_\_\_\_  
**Firm Name**

\_\_\_\_\_  
**Phone**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**Fax**

\_\_\_\_\_  
**City, State, Zip**

\_\_\_\_\_  
**email address**

# Minority, Women, and Emerging Small Business/Disadvantaged Business Enterprise



MWESB/DBE Voluntary Self-Declaration for City Procurement # \_\_\_\_\_ or Project No. P \_\_\_\_\_

The City of Springfield is seeking information on the various business entities that submit bids and proposals for working with the Department. We request that you provide the following information to assist us with evaluating our efforts at reaching the underrepresented sectors of the business and construction communities. The Department does not intend to use this data as criteria for selecting the successful bidders or proposers for city-funded procurements. For procurements with state or federal DBE requirements, the Department will use the forms and criteria established by the state or federal agency for selecting the successful bidders or proposers.

Please include this form with your bid/proposal submittal to the City.

Prime Bidder/Proposer: \_\_\_\_\_

Business Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

CCB#/PE#/Other Registration: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Phone: \_\_\_\_\_

Please check each box indicating the business certification type that your firm has with the State of Oregon or the federal government, if any:

- Oregon Minority-owned Business
- Oregon Woman-owned Business
- Oregon Emerging Small Business
- Federal Disadvantaged Business Enterprise (DBE)

First Tier Sub-contractors:

For each First Tier Subcontractor, provide the same information, using additional sheets as necessary:

**CITY OF SPRINGFIELD**  
**INDEPENDENT CONTRACTOR AGREEMENT**  
**(Type 3: For Personal Services Contracts Requiring Professional Liability Insurance)**  
**Contract # Call 3708 for contract #**

Dated:

Parties: City of Springfield ("CITY")  
A municipal corporation in the State of Oregon  
225 Fifth Street  
Springfield, Oregon 97477

and

("Independent Contractor")

**Additional Independent Contractor Information:**

- A. Type of Entity:  Sole Proprietorship  Partners  Limited Liability Company  Corporation
- B. Address:
- C. Telephone:
- D. Fax No:
- E. SSN or Fed. I.D. No:
- F. Professional License(s) No:
- G. Oregon Agency Issuing License:
- H. Foreign Contractor  Yes  No  
(Foreign means not domiciled in or registered to do business in Oregon) See Exhibit B (11).

**CITY Account Number(s) To Be Charged (Include Percentages):**

Account Number	Percentage

In consideration of the mutual covenants contained herein, the parties agree to the following terms, provisions and conditions:

1. **Payment by CITY.** CITY shall pay Independent Contractor according to the sum and schedule described in Attachments \_\_\_\_, attached hereto and incorporated herein by this reference and in an amount not to exceed\_\_\_\_\_.
2. **Services to be Performed by Independent Contractor.** Independent Contractor shall perform the services described in Attachment 1.
3. **Invoice.** Invoice to be sent to: Accounts Payable - City of Springfield, 225 5<sup>th</sup> Street, Springfield, OR 97477 or email to [accountspayable@springfield-or.gov](mailto:accountspayable@springfield-or.gov). Invoice will be paid on net 30 day terms upon City acceptance of goods delivered, work or services performed. The invoice must reference this contract #XXX

## ATTACHMENT 6

4. **Term.** This Agreement is effective as of the date first set forth above and shall continue until \_\_\_\_\_, unless earlier terminated in accordance with the provisions of this Agreement or by mutual consent of the parties.
5. **Sourcing.** Independent Contractor selected as a result of RFP#1289 Transportation System Integration issued Oct. 14, 2014.

6. **First Point of Contact.**

**Independent Contractor:** [insert name, ph# and email address]

**CITY:** [insert name, ph# and email address]

7. **Independent Contractor Status.** By its execution of this Agreement, Independent Contractor certifies its status as an "Independent Contractor" as that term is used under the laws of the State of Oregon, and that all performance of any labor or services required to be performed by Independent Contractor under the terms of this Agreement shall be performed in accordance with the standards set forth in ORS 670.600, and as more specifically set forth on Exhibit "A" attached hereto and incorporated herein by this reference.
8. **Conformance with Oregon Public Contracts Law (ORS Chapter 279).** Independent Contractor shall comply with all applicable provisions of Oregon law for public contracts, including, but not limited to ORS 279B.220, ORS 279B.225, ORS 279B.230, and ORS 279B.235, and as more fully set forth on Exhibits "A" and "B" attached hereto and incorporated herein by this reference.
9. **Work Performed.** The work to be performed by Independent Contractor includes services generally performed by Independent Contractor in his/her/its usual line of business.
10. **Tax duties and Liabilities.** Independent Contractor shall be responsible for all federal, state and local taxes, if any, applicable to any payments received pursuant to this Agreement, including but not limited to income tax, payroll tax, social security and self-employment tax. CITY shall not withhold, pay, or in any other manner be responsible for payment of any taxes on behalf of Independent Contractor.
11. **Reimbursement of Expenses.** Independent Contractor shall not be entitled to reimbursement by CITY for any expenses incurred by Independent Contractor unless otherwise agreed in writing.
12. **Materials and Supplies.** Independent Contractor shall supply all materials and supplies needed to perform the services required unless otherwise agreed in writing.
13. **No Authority to Bind CITY.** Independent Contractor shall have no authority to enter into contracts on behalf of CITY, it's officers, agents and employees. This Agreement shall not create a partnership or joint venture of any sort between the parties.
14. **Federal Employment Status.** In the event payment made pursuant to this Agreement is to be charged against federal funds, Independent Contractor hereby certifies that it is not currently employed by the Federal Government and the amount charged does not exceed Independent Contractor's normal charge for the type of services provided
15. **Indemnification and Hold Harmless.** The Independent Contractor shall assume all responsibilities for the work, and bear all losses and damages directly or indirectly resulting to the Independent Contractor, the City, or to others on account of the character or performance of the work, unforeseen difficulties, accidents, or any other cause whatsoever. The Independent Contractor shall assume defense of, indemnify and save harmless the City, its officials, agents, and employees from all claims, liability, loss, damage and injury of every kind, nature and description, directly or indirectly resulting from activities in the performance of the Contract, the ownership, maintenance or use of motor

## ATTACHMENT 6

vehicles in connection therewith, or the acts, omissions, operations, or conduct of the Independent Contractor or any Subcontractor under the Contract or any way arising out of the Contract, irrespective of whether any act, omission or conduct of the City connected with the Contract is a condition or contributory cause of the claim, liability loss, damage or injury and irrespective of whether act, omission, or conduct of the Independent Contractor or Subcontractor is merely a condition rather than a cause of a claim, liability, loss damage or injury. The Independent Contractor shall not be liable for nor be required to defend or indemnify, the City relative to claims for damage or damages resulting solely from acts or omissions of the City, its officials, agents or employees. The absence of or inadequacy of the liability insurance required in section 16 below shall not negate Independent Contractor's obligations in this paragraph.

### 16. Insurance.

- 16.1. General Insurance.** The Independent Contractor shall maintain in force for the duration of this Agreement a Commercial General Liability insurance policy written on an occurrence basis with limits not less than \$2,000,000 per occurrence and \$3,000,000 in the aggregate for bodily injury or property damage. The policy will contain a "per project" aggregate endorsement. Automobile Liability (owned, non-owned and hired) insurance with limits not less than \$1,000,000 per occurrence shall be maintained. The City, its employees, officials and agents will be named as an Additional Insured where operations are being conducted related to this contract, on the General Liability policy as respects to work or services performed under this Agreement to the extent that the death or bodily injury to persons or damage to property arises out of the fault of the Independent Contractor or the fault of the Independent Contractor's agents, representatives or subcontractors. This insurance will be primary over any insurance the City may carry on its own. Independent contractor understands that CITY is a public entity subject to the requirements of the Oregon Governmental Tort Claims Act, ORS 30.260 et seq. In the event that CITY'S financial obligations or liabilities are modified by any amendment to the liability limits imposed by the Oregon Governmental Tort Claims Act, Independent contractor agrees that the limits regarding liability insurance set forth in this Section 16.1 will be modified to conform to such limits. Independent contractor and CITY shall sign an amendment to this Agreement incorporating such modification.
- 16.2. Professional Liability.** Independent Contractor shall maintain in force during the duration of this Agreement (and, if it is a claims made policy, for a year following completion of the project) a professional liability policy, approved by the City's Risk Manager as to terms, conditions and limits.
- 16.3. Asbestos Abatement.** (Only applicable to contracts where asbestos maybe present)The Commercial General Liability policy shall be written on a form that meets the following criteria and must be ASBESTOS SPECIFIC as follows:
- a. A full occurrence form, or
  - b. A limited occurrence form with at least a three-year (3) tail, or
  - c. A claim made form with a three-year (3) tail.
- 16.4. Workers' Compensation.** Independent Contractor shall provide and maintain workers' compensation coverage for its employees, officers, agents, or partners, as required by applicable workers' compensation laws. If Independent Contractor is exempt from coverage, a written statement signed by Contractor so stating the reason for the exemption shall be provided to the City.
- 16.5. Evidence of Insurance Coverage.** Evidence of the required insurance coverages issued by an insurance company satisfactory to the City shall be provided to the City by way of a City approved certificate of insurance before any work or services commence.
- 16.6. Notice of Cancellation or Material Change in Coverage.** The certificate of insurance shall contain a requirement that the Insurance company notify the City 30 days prior to any cancellation or material change in coverage. If the approved insurance company will not provide this 30 day notice, the Contractor shall provide written notice to the City contract manager within 2 calendar days after the Contractor becomes aware that their coverage has been canceled or has been materially changed. The Contractor shall either fax 541-726-3782 said notice or email it directly to Bob Duey ([rduey@springfield-or.gov](mailto:rduey@springfield-or.gov)), Finance Director

## ATTACHMENT 6

at the City. Regardless of what circumstances caused Contractors insurance coverage to cease or be modified, it is the contractor's responsibility to notify the City. Failure to maintain proper insurance or provide notice of cancellation or modification shall be grounds for immediate termination of this contract. \_\_\_\_\_ **(Contractor initials)**

- 16.7. Equipment and Material.** The Independent Contractor shall be responsible for any loss, damage, or destruction of its own property, equipment, and materials used in conjunction with the work.
- 16.8. Subcontractors.** The Independent Contractor shall require all subcontractors to provide and maintain general liability, auto liability, professional liability (as applicable), and workers' compensation insurance with coverage's equivalent to those required of the general contractor in this contract. The Independent Contractor shall require certificates of insurance from all subcontractors as evidence of coverage.
- 16.9. Exception or Waivers.** Any exception or waiver of these requirements shall be subject to review and approval from the City's Risk Manager.
- 16.10. Railroad Protective Liability Coverage.** If work being performed under this agreement is near railroad tracks or a railroad right of way and the Railroad requires special insurance (for example: Railroad Protective Liability Coverage) Independent Contractor will be responsible for meeting the Railroad insurance requirements before any work commences. Any insurance required to be purchased by the Railroad is in addition to the insurance required by the City.
- 17. Termination.** The performance of work under this Agreement may be terminated by CITY, in whole or in part, whenever for any reason CITY shall determine that such termination is in the best interest of CITY. Any such termination shall be effected by delivery to the Independent Contractor of a Notice of Termination specifying the extent to which performance of the work under the Agreement is terminated and the date on which such termination is effective. Upon delivery to the Independent Contractor of a Notice of Termination under this paragraph, the Independent Contractor and CITY shall, by agreement, make an appropriate written modification to this Agreement governing completion of portions of the independent Contractor's work and payment therefore by CITY.
- 18. Rights in Data.** All original written material, including programs, card decks, tapes, listings, and other documentation originated and prepared for CITY pursuant to this Agreement, shall become exclusively the property of CITY. The ideas, concepts, know-how, or techniques developed during the course of this Agreement by Independent Contractor personnel can be used by either party in any way it may deem appropriate. Material already in Independent Contractor's possession, independently developed by Independent Contractor outside the scope of this Agreement, or rightfully obtained by Independent Contractor from third parties, shall belong to Independent Contractor. This agreement shall not preclude Independent Contractor from developing materials which are competitive, irrespective of their similarity to materials which might be delivered to CITY pursuant to this Agreement. Independent Contractor shall not, however, use any written materials developed under this Agreement in developing materials for others, except as provided in this section.
- 19. Geographic Information System (GIS) and Computer Aided Design (CAD) Information (When applicable).**
- 19.1 GIS Data Provided to Consultants.** CITY shall provide GIS information needed for the project upon request by the consultant. Response time by CITY will vary depending upon workload and data availability. Some GIS information not under CITY purview may need to be requested of other agencies. In such cases CITY will assist by either providing contacts at other agencies or acquiring the data on behalf of the consultant. All data requests need to be properly documented in digital data request forms. For specificity regarding electronic data requests please contact the GIS Section, Technical Services Division at (541) 726-3706. It remains the consultants' responsibility to communicate all project related requests with the CITY assigned project manager.
- 19.2 GIS Data Provided by Consultants.** Electronic files of all products including but not limited to word documents, databases, spreadsheets, spatial datasets, imagery and presentation material shall be submitted to the CITY. These files shall be compatible with CITY software

## ATTACHMENT 6

such as Microsoft's Office, ArcGIS and AutoCAD, and submitted in compliance with relevant electronic submittal standards as determined by CITY. GIS or CAD data submitted to CITY shall be geo-referenced to CITY's datum. For exceptions and/or specificity regarding electronic data submittal please contact the GIS section, Technical Services Division at (541)726-3706. It remains the consultants' responsibility to communicate all project related requests with CITY assigned project manager.

- 20. Confidentiality.** During the course of performance hereunder, Independent Contractor or its agent, employees, or contractors, may receive confidential information. Independent Contractor agrees to use its best efforts to maintain the confidentiality of such information and to inform each agent and employee performing services of the confidentiality obligation that pertains to such information.
- 21. Assignment/Subcontract.** Independent Contractor shall not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this Agreement, in whole or in part, without the prior written approval of CITY. No such written approval shall relieve Independent Contractor of any obligations of this Agreement, and any transferee or subcontractor shall be considered the agent of Independent Contractor. Independent Contractor shall remain liable as between the original parties to this Agreement as if no such assignment had occurred.
- 22. Successors in Interest.** The provisions of this Agreement shall be binding upon and shall inure to the benefit of the parties to this Agreement and their respective successors and assigns.
- 23. Compliance with All Government Regulations.** Independent Contractor shall comply with all Federal, State and local laws, codes, regulations and ordinances applicable to the work performed under this Agreement. Failure to comply with such requirements shall constitute a breach of contract and shall be grounds for termination of this Agreement. Damages or costs resulting from noncompliance shall be the sole responsibility of Independent Contractor.
- 24. Attorney Fees.** In the event a lawsuit of any kind is instituted on behalf of CITY to enforce any provision of this Agreement, Independent Contractor shall pay such additional sums as the Court may adjudge reasonable for attorney fees plus all costs and disbursements at trial and on any appeal.
- 25. Force Majeure.** Neither party to this Agreement shall be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. CITY may terminate this Agreement upon written notice after determining such delay or default will unreasonably prevent successful performance of the Agreement.
- 26. Assistance Regarding Patent and Copyright Infringement.** In the event of any claim or suit against CITY on account of any alleged patent or copyright infringement arising out of the performance of this Agreement or out of the use of any material furnished or work or services performed hereunder, Independent Contractor shall defend CITY against any such suit or claim and hold CITY harmless from any and all expenses, court costs, and attorney's fees in connection with such claim or suit.
- 27. Severability.** If any provision of this Agreement is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected; and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular provision held to be invalid.
- 28. Access to Records.** CITY and its duly authorized representatives shall have access to books, documents, papers and records of Independent Contractor which are directly pertinent to this Agreement for the purpose of making audit, examination, excerpts and transcripts.
- 29. Waiver.** Failure of CITY to enforce any provision of this Agreement shall not constitute a waiver or relinquishment by CITY of the right to such performance in the future nor of the right to enforce any other provision of this Agreement.

**ATTACHMENT 6**

- 30. Amendments.** The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, without prior written approval of CITY, No modification of this Agreement shall bind either party unless reduced to writing and subscribed by both parties, or ordered by a Court.
- 31. Nondiscrimination.** Independent Contractor shall comply with all applicable requirements of Federal and State civil rights and rehabilitation statutes, rules and regulations.
- 32. Dual Payment.** Independent Contractor shall not be compensated for work performed under this contract from any CITY agency other than the agency which is a party to this contract.
- 33. Remedies.** This Agreement shall be governed by and construed in accordance with the laws of the State of Oregon, and any litigation arising out of this Agreement shall be conducted in the courts of the State of Oregon, County of Lane.
- 34. Entire Agreement.** This Agreement signed by both parties is the parties' final and entire Agreement and supersedes all prior and contemporaneous oral or written communications between the parties, their agents and representatives. There are no representations, promises, terms, conditions or obligations other than those contained herein.

IN WITNESS WHEREOF the parties have executed this Agreement to be effective the date first set forth above.

**CITY OF SPRINGFIELD:**

**INDEPENDENT CONTRACTOR**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## ATTACHMENT 6

### EXHIBIT "A"

#### CITY OF SPRINGFIELD INDEPENDENT CONTRACTOR AGREEMENT

##### Independent Contractor Status

All performance of any labor or services required to be performed by Independent Contractor shall be performed in accordance with the standards set forth in ORS 670.600, and as follows:

A person is customarily engaged in an independently established business if any three of the following requirements are met:

1. The person maintains a business location:
  - a. That is separate from the business or work location of the person for whom the services are provided; or,
  - b. That is in a portion of the person's residence and that portion is used primarily for the business.
2. The person bears the risk of loss related to the business or the provision of services as shown by factors such as:
  - a. The person enters into fixed-price contracts;
  - b. The person is required to correct defective work;
  - c. The person warrants the services provided; or,
  - d. The person negotiates indemnification agreements or purchases liability insurance, performance bonds or errors and omissions insurance.
3. The person provides contracted services for two or more different persons within a 12-month period, or the person routinely engages in business advertising, solicitation or other marketing efforts reasonably calculated to obtain new contracts to provide similar services.
4. The person makes a significant investment in the business, through means such as:
  - a. Purchasing tools or equipment necessary to provide the services;
  - b. Paying for the premises or facilities where the services are provided; or
  - c. Paying for licenses, certificates or specialized training required to provide the services.
5. The person has the authority to hire other persons to provide or to assist in providing the services and has the authority to fire those persons.

## ATTACHMENT 6

### EXHIBIT "B"

#### City of Springfield Public Contracts Conformance with Oregon Public Contractors Laws

**Pursuant to Oregon law, every public contract shall contain the following conditions:**

- 1) Make payment promptly, as due, to all persons supplying to the contractor labor or material for the performance of the work provided for in the contract. ORS 279B.220(1)
- 2) Pay all contributions or amounts due the Industrial Accident Fund from the contractor or subcontractor incurred in the performance of the contract. ORS 279B.220(2).
- 3) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished. ORS 279B.220(3).
- 4) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167. ORS 279B.220(4).
- 5) If the agreement is for lawn and landscape maintenance, it shall contain a condition requiring the contractor to salvage, recycle, compost or mulch yard waste material at an approved site, if feasible and cost-effective. ORS 279B.225.
- 6) Promptly, as due, make payment to any person, copartnership, association or corporation furnishing medical, surgical and hospital care services or other needed care and attention, incident to sickness or injury, to the employees of the contractor, of all sums that the contractor agrees to pay for the services and all moneys and sums that the contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services. All employers shall comply with ORS 656.017. ORS 279B.230.
- 7) A person may not be employed for more than 10 hours in any one day, or 40 hours in any one week, except in cases of necessity, emergency or when the public policy absolutely requires it, and in such cases, except in cases of contracts for personal services designated under ORS 279A.055, the employee shall be paid at least time and a half pay:
  - a) For all overtime in excess of eight hours a day or 40 hours in any one week when the work week is five consecutive days; or
  - b) For all overtime in excess of 10 hours in any one day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and
  - c) For all work performed on Saturday and on any legal holiday specified in ORS 279B.020.

An employer must give notice in writing to employees who work on a public contract, either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that the employees may be required to work. ORS 279B.235(1)-(2).

- 8) If the agreement is for personal services, the contract shall contain a provision that the employee shall be paid at least time and a half for all overtime worked in excess of 40 hours in any one week, except for individuals under personal services contracts who are excluded under ORS 653.010 to 653.261 or under 29 U.S.C. 201-209 from receiving overtime. ORS 279B.235(3).
- 9) Contracts for services must contain a provision that requires that persons employed under contracts shall receive at least time and half pay for work performed on the legal holidays specified in a collective bargaining agreement or in ORS 279B.020(1)(b)(B)-(G) and for all time worked in excess of 10 hours in any one day or in excess of 40 hours in any one week, whichever is greater. Employer shall give notice in writing to employees who work on a contract for services, either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees, of the number hours per day and days per week that the employees may be required to work. ORS 279B.235(5).

**If this agreement is for a public improvement, the contract shall contain the following conditions:**

- 10) Make payment promptly, as due, to all persons supplying to the contractor labor or material for the performance of the work provided for in the contract. ORS 279C.505(1)(a).
- 11) Pay all contributions or amounts due the Industrial Accident Fund from the contractor or subcontractor incurred in the performance of the contract. ORS 279C.505(1)(b).
- 12) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished. ORS 279C.505(1)(c).
- 13) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167. ORS 279C.505(1)(d).
- 14) The contractor shall demonstrate that an employee drug testing program is in place. ORS 279C.505(2).

## ATTACHMENT 6

- 15) If the contractor fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the contractor or subcontractor by any person in connection with the public improvement contract as the claim becomes due, the proper officer or officers representing the state or a county, school district, municipality, municipal corporation or subdivision thereof, as the case may be, may pay such claim to the person furnishing labor or services and charge the amount of the payment against the funds due or to become due the contract by reason of the contract. If the contractor or first-tier subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the public improvement contract within 30 days after receipt of payment from the contracting agency or a contractor, the contractor or first-tier subcontractor shall owe the person the amount due plus interest charges commencing at the end of the 10-day period that payment is due under ORS 279C.580(4) and is subject to a good faith dispute as defined in ORS 279C.580. If the contractor or a subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the public improvement contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. ORS 279C.515.
- 16) The payment of a claim does not relieve the contractor or the contractor's surety from obligation with respect to any unpaid claims. ORS 279C.515(4).
- 17) A person may not be employed for more than 10 hours in any one day, or 40 hours in any one week, except in cases of necessity, emergency or when the public policy absolutely requires it, and in such cases, except in cases of contracts for personal services designated under ORS 279C.100, the employee shall be paid at least time and a half pay:
- a) For all overtime in excess of eight hours a day or 40 hours in any one week when the work week is five consecutive days; or,
  - b) For all overtime in excess of 10 hours in anyone day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and,
  - c) For all work performed on Saturday and on any legal holiday specified in ORS 279B.020. ORS 279C.520(1).
- An employer shall give notice in writing to employees who work on a public contract either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that the employees may be required to work. ORS 279B.520(2).
- 18) If the agreement is for personal services, the contract shall contain a provision that the employee shall be paid at least time and a half for all overtime worked in excess of 40 hours in any one week, except for individuals under personal services contracts who are excluded under ORS 653.010 to 653.261 or under 29 U.S.C. 201-209 from receiving overtime. ORS 279C.520(3).
- 19) Contracts for services must contain a provision that requires that persons employed under contracts shall receive at least time and half pay for work performed on the legal holidays specified in a collective bargaining agreement or in ORS 279C.540(1)(b)(B)-(G) and for all time worked in excess of 10 hours in any one day or in excess of 40 hours in any one week, whichever is greater. An employer shall give notice in writing to employees who work on a contract for services, either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that the employees may be required to work. ORS 279C.520(5)
- 20) Solicitation documents for a public improvement contract shall make specific reference to federal, state and local agencies that have enacted ordinances, rules or regulations dealing with the prevention of environmental pollution and the preservation of natural resources that affect the performance of the contract. A solicitation document must also make special reference to known conditions at the construction site that may require the successful bidder to comply with the ordinances, rules or regulations identified under ORS 279C.525(1). If the successful bidder encounters a condition not referred to in the solicitation documents, not caused by the successful bidder and not discoverable by a reasonable prebid visual site inspection, and the condition requires compliance with the ordinances, rules or regulations referred to under ORS 279C.525(1), the successful bidder shall immediately give notice of the condition to the contracting agency. The successful bidder may not commence work nor incur any additional job site costs in regard to the condition encountered and described in ORS 279.525(3) without written direction from the contracting agency. ORS 279C.525.
- 21) Promptly, as due, make payment to any person, copartnership, association or corporation furnishing medical, surgical and hospital care services or other needed care and attention, incident to sickness or injury, to the employees of the contractor, of all sums that the contractor agrees to pay for the services and all moneys and sums that the contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services. All employers shall comply with ORS 656.017. ORS 279C.530.
- 22) A contract for public works shall contain a provision stating the existing state prevailing rate and wage and, if applicable, the federal prevailing rate of wage required. Every contract and subcontract shall contain a provision that workers shall be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838. ORS 279C.830(1).

**If this agreement is for demolition, the contract shall also contain the following conditions:**

- 23) Contractor must salvage or recycle construction and demolition debris, if feasible and cost-effective. ORS 279C.510(1)