



FIRM ID NUMBER: 2614

Client: City of Austin

Project: Commodity Codes

PROJECT STATUS MEMORANDUM

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COPIES: Travis Michel, PE

ISSUED BY: Ryan Owen, PE

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LAN PROJECT NO.: 160-10513-100

ATTACHMENTS: Appendix A – Glossary of Terms
Appendix B – Preliminary CSI to NIGP Crosswalks
Appendix C – Fee Proposal Lockwood, Andrews & Newnam, Inc.
Appendix D – Fee Proposal Periscope Holdings, LLC

1.0 Introduction

Lockwood, Andrews and Newnam, Inc. (LAN) is under contract to perform the Commodity Codes Phase II, Part A project. The objective of this project is to assist the City of Austin (City) in providing information regarding standard bid items and cost estimate data in order to create crosswalks between standard bid items and established national commodity codes. This assignment is being completed in multiple phases, however, funding for future phases has not been committed by the City of Austin and the project is currently on hold.

The Commodity Codes project consists of two distinct project tracks. LAN is performing the work related to the crosswalk between Construction Specifications Institute (CSI) codes and National Institute of government Purchasing (NIGP) commodity codes, which are primarily used on “horizontal” projects. The City has also contracted with Periscope Holdings, Inc. (Periscope)¹ to develop a crosswalk between Construction Specifications Institute (CSI) codes and NIGP commodity codes, which are primarily used on “vertical” projects, such as building and facility projects.

¹ Per City of Austin, Periscope Holdings, Inc. holds the exclusive license to maintain, enhance and market the NIGP Commodity/Services Code.

The purpose of this Memorandum is to summarize the project history, current project status, and recommend steps in a path toward completing the crosswalks and achieving the stated project goals, with an emphasis on the work performed by LAN.

2.0 Project Goals

The overall goals of the Commodity Codes project are:

1. Establish methodical relationships between City Bid Items and commodity code selection.
2. Increase the accuracy and consistency of commodity codes used in conjunction with project Trade Summaries.
3. Improve participation of Certified Minority and Women Owned Business Enterprises (MBE/WBE).

The work completed to date, including Phase II, Part A, has focused primarily on Goal 1 above. As the project develops further, the path forward will shift the focus toward achieving goals 2 and 3.

3.0 Project History

Phase I and Phase II, Part A worked to establish a per-unit-price breakdown, or “crosswalk,” for each component of a bid item. LAN and the City preliminarily determined that most project trade summaries could be developed if there were breakdowns for approximately 150 bid items. As part of Phase II, Part A, LAN began establishing a methodical approach to determining crosswalks for the City Standard Bid Items, using a sample of the 12 most commonly used standard bid items. The 12 Standard Bid Items selected for this phase are:

No.	Bid Item	Item Description	Unit
1	642S	Silt Fence for Erosion Control	LF
2	700S-TM	Total Mobilization Payment	LS
3	509S-1	Trench Excavation Safety Protective Systems (all depths)	LF
4	504S-3W	Adjusting Water Valve Boxes to Grade	EA
5	803S-WD	Barricades, Signs and Traffic Handling	WD
6	510-KW	Ductile Iron Fittings	TON
7	609S-C	Native Grassland Seeding and Planting	SY
8	102S-B	Clearing and Grubbing	100 FT STA
9	340S-B	Hot Mix Asphalt Concrete Pavement, X inches, Type X	SY
10	510-AW	Pipe, 6 inch Dia. Ductile Iron Type (all depths), Including Excavation and Backfill	LF
11	414S-C	Cast-in-place PC Concrete Retaining Wall, Including Reinforcement	CY
12	432S-PRC-4	Pedestrian ADA Railing - Option 3 (Standard 707S-4)	LF

As part of this exercise, Standard Bid Items were broken out into different percentages of work and materials that make up each bid item. These cost breakdowns were then assigned NIGP commodity codes by Periscope. For example, bid item number 510-AW Ductile Iron Water Pipe may have percentages attributed to commodity codes for pipe material, labor and equipment.

For Phase II, Part A, LAN contracted with local registered MBE construction firm Central Road & Utility (CRU) to get the unique perspective of doing business as both a minority prime contractor and minority

subcontractor. CRU provided input based on how they would look at each bid item and associated crosswalk, and provided recommendations for each bid item component and associated percentage.

In parallel with LAN's Standard Bid Item to NIGP Crosswalk project, Periscope was contracted to perform a Construction Specifications Institute (CSI) to NIGP Crosswalk for projects utilizing the CSI MasterFormat 2014 specification format. Periscope reviewed a listing of NIGP Codes for which the City has had recent contracting activity, focusing its efforts on mapping NIGP Codes to CSI codes for the City's most commonly used NIGP Codes. Prior to completion of the original Phase II, Part A scope, the City directed LAN to assist Periscope with the CSI to NIGP code crosswalk. Because of this scope change, completion of the Phase II, Part A project is proposed to be completed under a separate contract.

4.0 Current Project Status

4.1 *Standard Bid Item to NIGP Crosswalk:*

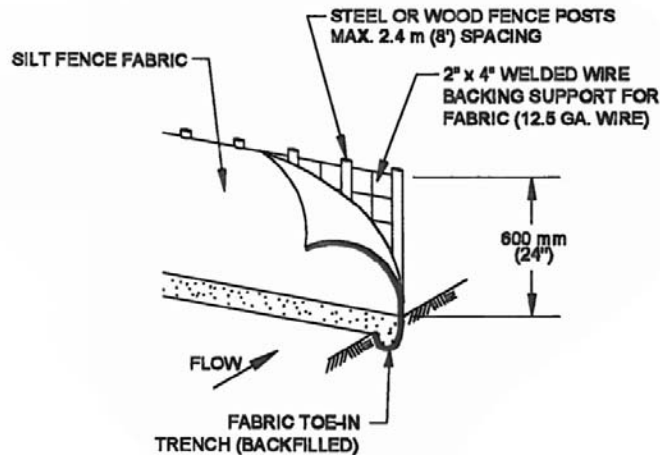
LAN analyzed the 12 most commonly used standard bid items, and broke out the bid items into percentages of work and materials that make up the bid item. During the preliminary bid item breakdown, LAN looked at each component of the bid item and established commodity code component percentages based on estimated costs using RS Means Construction Cost Data. These portions of work within a bid item were assigned commodity codes by Periscope. LAN completed preliminary crosswalks for these 12 bid items.

LAN also participated in meetings with the Small & Minority Business Resources (SMBR) Department and technical subject matter experts from various City departments to discuss the preliminary breakdowns, receive feedback and discuss practical application of the approach to the bid item breakdown process. Due to the scope change shifting efforts to the CSI to NIGP Crosswalk discussed in Paragraph 4.2 below, the final Standard Bid Item crosswalk was not completed for the 12 items identified.

During the preliminary crosswalk process, several key points were discovered:

1. It is not practical to break out every bid item into multiple components.

One example is the breakdown of Bid Item 642S – Silt Fence for Erosion Control. The figure below is from City Standard No. 642S-1, and shows the various components that make up silt fence.



The components of silt fence shown in the above detail were used to create a breakdown for this bid item, resulting in percentages for silt fence fabric, steel wire fence, labor and equipment. In this case, it was found that it is not practical to have a contractor register under each commodity code for these individual items. Silt fence installers are currently registered under an Erosion Control commodity code. Breaking down the Silt Fence bid item to this level would appear to cause additional registration work for a silt fence installer that would generally procure all materials and perform the silt fence installation, so it does not appear that there would be a benefit to breaking this item down further.

2. There are opportunities to provide greater potential for subcontractor participation.

Through discussions with City staff and CRU, it appears that the most common bid items assigned to subcontractors include erosion control, landscaping, hauling and traffic handling. There are also some categories, such as paving, that have few competitors in the local market compared to some other major work categories. There are opportunities to expand on work that is commonly assigned to subcontractors, and also identify and target areas with greater potential for subcontractor opportunities.

3. Many bid items require broad assumptions which can lead to inconsistent application.

During the preliminary bid item breakdown exercise, some bid items required broad assumptions for assigning percentages to each component of the work. Due to different variables on projects, this could lead to inconsistent application of the crosswalk. An example of this was discovered on Bid Item 510-AW "Pipe, 6-in Dia. Ductile Iron Type (all depths), Including Excavation and Backfill." According to Standard Specification 510 – Pipe, the unit price payment for pipe per LF includes such items as backfilling, dewatering, hauling and pavement repair. Each of these bid item components could differ from project to project based on items such as varying surface and subsurface conditions, depth of pipe, and project-specific requirements. The bid item breakdown requires several assumptions that could lead to inconsistencies in the crosswalk for projects with unique

requirements. To get a better idea of the impacts of this, we recommend further coordination with SMBR to determine how these assumptions may impact project specific MBE/WBE goals.

Following the preliminary bid item breakdowns and subsequent discussions with City of Austin staff regarding the above discoveries, the City directed LAN to redirect scope to assist Periscope with the CSI to NIGP crosswalk project.

4.2 CSI to NIGP Crosswalk:

LAN assisted Periscope with the CSI to NIGP code crosswalk by providing technical input during the crosswalk exercise. LAN also participated in a meeting with City subject matter experts to review the updated crosswalk and receive feedback. As the team began looking at lists of commodity codes that have been used on previous City contracts, it became clear that these codes needed to be organized into different categories based on how they apply to this project. The City uses 5-digit and 7-digit commodity codes. Existing commodity codes used by the City were divided into three categories:

1. NIGP codes applicable to construction with related CSI code

These are commodity codes that are applicable to construction projects, are registered NIGP commodity codes, have a related CSI code, and are proposed to be used in the crosswalk. Preliminary crosswalks have been created for these items.

2. NIGP codes not applicable to construction or no related CSI code

Commodity codes are used for all City purchasing items, and not just construction-related items. This category includes items that are not related to construction, such as office supplies, name tags and uniforms, as well as NIGP codes that do not have a related CSI code, such as hammers and drills. These are tools that may be used for construction, but do not have a direct CSI code match. These items were determined to fall under the contractor's means and methods, and it would not be required that a contractor buy this type of material specifically for a project.

3. Codes not registered with NIGP

There were a number of codes that are not registered with NIGP, and have been created by the City. In some cases, these codes have vendors registered under them. These codes are currently being reviewed by the City to determine if new codes need to be created, or if the numbers need to be reassigned.

Preliminary crosswalk spreadsheets for these three categories have been presented to the City subject matter experts and are currently being reviewed. When they are agreed upon, the intent is to perform the crosswalk for the items listed in Category 1 only. These preliminary spreadsheets are provided as an attachment to this memorandum.

LAN has also assisted in recommending consistent "rules" for Periscope and the City to apply as they complete this crosswalk assignment for the agreed upon Category 1 items. The preliminary process of

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assigning these codes is still under review by the City, but in addition to the 3 categories above, the preliminary framework included the following recommendations:

- Use only 5-digit NIGP codes for vendor registration. Vendors are currently registered under both 5 and 7 digit codes. Vendors currently registered under 7-digit codes would be rolled up to the 5-digit code. Periscope has stated that it is not typical to have vendors register under a 7-digit code. The 7-digit codes are more specific, and could be limiting opportunities for a contractor that may perform more broad services.
- Use the first 3 or 4 digits of the 6-digit CSI Code. The intent is to provide a manageable level of detail for vendor registration, without being too broad. The typical CSI Specification numbers include 6 digits, and in some cases 8 digits. The example below shows selected sections under Division 04 – Masonry from CSI MasterSpec 2014. The first three digits of the sub-category shown is 04 20 00 – Unit Masonry, and the four digit section below it specifies more detailed types of unit masonry is 04 21 00 – Clay Unit Masonry. By limiting the cross-walk to using either the first 3 or 4 digits of the CSI code, a section such as 04 21 16 – Ceramic Glazed Clay Masonry, would be rolled up to either the 3 or 4 digit section which it falls under. The use of 3-digits, 4-digits, or a combination of these is currently being evaluated by the City subject matter experts and project team.

04 20 00	Unit Masonry
04 21 00	Clay Unit Masonry
04 21 13	Brick Masonry
04 21 13.13	Brick Veneer Masonry
04 21 13.23	Surface-Bonded Brick Masonry
04 21 16	Ceramic Glazed Clay Masonry
04 21 19	Clay Tile Masonry
04 21 23	Structural Clay Tile Masonry
04 21 26	Glazed Structural Clay Tile Masonry
04 21 29	Terra Cotta Masonry

These preliminary breakdowns and rules are being reviewed by the City, and are proposed to be finalized in future scope of work between the City and Periscope. LAN is also available to continue to provide technical assistance in future phases of this effort as needed.

5.0 Path Forward

Below are recommended steps in a path toward the goal of finalizing a standard crosswalk system that will substitute the current trade summary used for establishing consistent goals for construction projects. The ultimate intent is to increase opportunities for MBE/WBE Contractor participation on City contracts. This path forward is specific to completing the Standard Bid Item to NIGP Code Crosswalk project.

1. Coordinate the existing 12 preliminary Standard Bid Item crosswalks with internal project stakeholders, such as City of Austin Subject Matter Experts, Small and Minority Business

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Resources (SMBR) staff and Financial Services IT (eCapris system) to discuss the crosswalk and application to the City process. The goal of this coordination will be to accomplish the following:

- a. Gain concurrence on technical items in the Crosswalk.
 - b. Discuss solutions for minimizing changes to Contractor registration.
 - c. Discuss potential new MBE/WBE opportunities emerging from preliminary crosswalk findings.
 - d. Develop a tool or template to assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.
 - e. Clarify implementation and use of the Crosswalk at the Project level.
 - f. Meet with eCapris team to discuss implementation issues associated with the Crosswalk
 - g. Confirm methodology for standard bid item to NIGP crosswalks for future phases.
2. Finalize 12 Standard Bid Item Crosswalks from Phase 2, Part A.
 3. Continue Crosswalk effort for 38 additional bid items (Phase 2, Part B) utilizing methodology established in steps 1 and 2. In parallel, continue to coordinate with and seek input from internal project stakeholders.
 4. Perform a pilot test of the crosswalk on small construction projects. The purpose of this exercise is to get a better understanding of how implementing the crosswalk will impact the project's trade summary and goals, and show how the goals established by the Crosswalk compare to the actual project MBE/WBE utilization goals and results. Test projects are recommended to have the following characteristics:
 - a. Includes only Bid Items that are within the 50 completed standard bid item crosswalks.
 - b. Project has been completed with documented MBE/WBE/DBE project goals and results.
 - c. Prime Contractor is not a MBE/WBE/DBE.
 - d. Records are available on original trade summary and any Change Orders that may have impacted the results.

A pilot test of multiple projects with varying results, such as one project did not meet goals, and another exceeded goals, will provide a more robust data set.

5. Review test results with internal project stakeholders and assess impacts of crosswalk. Make adjustments to ratios/percentages as necessary based on discussions.
6. Seek public input from contractors and external stakeholders (invite comments over a 30-day review period), and make adjustments to the process as agreed upon based on discussions.
7. Continue with standard bid item crosswalk exercise for agreed upon remaining bid items.
8. Develop a listing of NIGP Codes tied to certified M/WBE vendors, for which no contracting activity exists. Work with the City to identify key messaging around these vendor categories to the stakeholder group, and support the City in communicating to the vendor community about these "gaps" between contracting activity and certified vendor registration.
9. Provide on-going crosswalk additions (implement 6-month review cycles) and potential training to City staff.

APPENDIX A

GLOSSARY OF TERMS

Commodity Code Crosswalk

A methodical relationship between bid items and Commodity Code selection in order to increase consistency with bid solicitations and improvement in participation of Certified Minority and Women Owned Business Enterprises. Establishing the commodity code crosswalk is the purpose of this project.

NIGP Commodity Code

National Institute of Governmental Purchasing Commodity Code. A coding structure used primarily for classifying products and services procured by state and local governments. The City of Austin utilizes this code system for procurement, and for registering approved contractors.

CSI Code

Construction Specifications Institute MasterFormat 2014 numbers. The City of Austin uses these specification sections primarily for “vertical” projects such as buildings. These specification sections are also generally used for establishing bid item numbers.

Standard Bid Item

City of Austin Standard Bid Item. These specifications are from the City of Austin Standard Specifications Manual, and are used primarily for “horizontal” projects such as utilities and roads. These specification sections are also generally used for establishing bid item numbers.

APPENDIX B

PRELIMINARY CSI TO NIGP CROSSWALKS

1. NIGP to CSI Matches
Commodity Code Crosswalk - CSI to NIGP

6/17/2014

CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
01 30 00	Administrative Requirements	906-64	Planning, Urban (Community, Regional, Areawide,and State)	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-64	Planning, Urban (Community, Regional, Area wide, and State)		
01 30 00	Administrative Requirements	915-72	Photography (Not Including Aerial Photography)	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-72	Photography (Not Including Aerial Photography)		
01 30 00	Administrative Requirements	958-03	Airport Management Services	958	MANAGEMENT SERVICES	958-03	Airport Management Services		
01 30 00	Administrative Requirements	958-26	Construction Management Services	958	MANAGEMENT SERVICES	958-26	Construction Management Services		
01 30 00	Administrative Requirements	958-77	PROJECT MANAGEMENT SERVICES	958	MANAGEMENT SERVICES	958-77	Project Management Services		
01 30 00	Administrative Requirements	961-02	Administrative Services, All Kinds	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-02	Administrative Services, All Kinds (Incl. Clerical, Secretarial Services, etc.)		
01 40 00	Quality Requirements	918-88	Quality Assurance/Control Consulting	918	CONSULTING SERVICES	918-88	Quality Assurance/Control Consulting		
01 50 00	Temporary Facilities and Controls	934-84	Toilets, Portable, Maintenance and Repair (Includi	934	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR LAUNDRY, LAWN, PAINTING, PLUMBING, AND SPRAYING EQUIPMENT	934-84	Toilets, Portable, Maintenance and Repair (Including Servicing)		
01 50 00	Temporary Facilities and Controls	988-72	Pest Control (Other Than Buildings)	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-72	Pest Control (Other Than Buildings) (Includes Spraying of Trees and Shrubs)		
01 90 00	Life Cycle Activities	961-45	Inspection and Certification Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-45	Inspection and Certification Services		
02 00 00	Existing Conditions	910-39	Janitorial/Custodial Services	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-39	Janitorial/Custodial Services		
02 20 00	Assessment	305-42	Engineering Supplies, Miscellaneous	305	ENGINEERING AND ARCHITECTURAL EQUIPMENT, SURVEYING EQUIPMENT, DRAWING INSTRUMENTS, AND SUPPLIES	305-42	Engineering Supplies, Miscellaneous		
02 20 00	Assessment	305-42-35	ENGINEERING SUPPLIES, MISCELLANEOUS	305	ENGINEERING AND ARCHITECTURAL EQUIPMENT, SURVEYING EQUIPMENT, DRAWING INSTRUMENTS, AND SUPPLIES	305-42	Engineering Supplies, Miscellaneous	305-42-35	ENGINEERING SUPPLIES, MISCELLANEOUS
02 20 00	Assessment	905-04	Aerial Photogrammetry Services	905	AIRCRAFT AND AIRPORT OPERATIONS SERVICES	905-04	Aerial Photogrammetry Services		
02 20 00	Assessment	918-12	Analytical Studies and Surveys (Consulting)	918	CONSULTING SERVICES	918-12	Analytical Studies and Surveys (Consulting)		
02 20 00	Assessment	918-13	Asbestos Consulting	918	CONSULTING SERVICES	918-13	Asbestos Consulting		
02 20 00	Assessment	926-58	Lead and Asbestos Inspection Services	926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-58	Lead and Asbestos Inspection Services		
02 20 00	Assessment	926-83	Site Assessment, Environmental	926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-83	Site Assessment, Environmental		
02 20 00	Assessment	941-59	Inspection/Examination Services, Non-Destructive (	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP	941-59	Inspection/Examination Services, Non-Destructive (Ultrasonic Testing, Dye Penetrant Testing, Radiography, etc.)		
02 20 00	Assessment	961-41-78	SURVEYING SERVICES, GLOBAL POSITIONING SYSTEM	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-41	Global Positioning Systems Surveying Services	961-41-78	SURVEYING SERVICES, GLOBAL POSITIONING SYSTEMS
02 30 00	Subsurface Investigation	206-54	Geographic Information Systems (GIS)	206	COMPUTER HARDWARE AND PERIPHERALS FOR MINI AND MAIN FRAME COMPUTERS	206-54	Geographic Information Systems (GIS)		
02 30 00	Subsurface Investigation	918-55	Geological Consulting and Study	918	CONSULTING SERVICES	918-55	Geological Consulting and Study		
02 30 00	Assessment	926-90	Subsurface Testing, Environmental	926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-90	Subsurface Testing, Environmental		
02 30 00	Subsurface Investigation	926-91	Tank Testing Services, Storage (Incl Underground Types)	926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-91	Tank Testing and Disposal Services, Storage (Including Underground Types)		
02 30 00	Subsurface Investigation	962-91	Utility Locator Service (Underground)	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-91	Utility Locator Service (Underground)		
02 30 00	Subsurface Investigation	962-92	Video Scanning of Sewers, Waterwells, etc.	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-92	Video Scanning of Sewers, Water Wells, etc.		
02 50 00; 02 80 00	Site Remediation; Facility Remediation	192-17	Chemical Spill Solvents and Detergents	192	CLEANING COMPOSITIONS, DETERGENTS, SOLVENTS, AND STRIPPERS - PREPACKAGED	192-17	Chemical Spill Solvents and Detergents		
02 50 00; 02 80 00	Site Remediation; Facility Remediation	192-83-78	SULFUR, WETTABLE, FOR CLEAN UP OF MERCURY SPILLS	192	CLEANING COMPOSITIONS, DETERGENTS, SOLVENTS, AND STRIPPERS - PREPACKAGED	192-83	Steam Cleaning Compounds	192-83-78	SULFUR, WETTABLE, FOR CLEAN UP OF MERCURY SPILLS
02 50 00; 02 80 00	Site Remediation; Facility Remediation	485-74	Oil, Chemical, and Hazardous Material Spill Absorb	485	JANITORIAL SUPPLIES, GENERAL LINE	485-74	Oil, Chemical, and Hazardous Material Spill Absorbents, Cleaners, Neutralizers, and Pads (Including Microorganisms, Live; Peat Moss))		
02 50 00; 02 80 00	Site Remediation; Facility Remediation	961-48-50	LABORATORY SERVICES FOR HAZARDOUS WASTE AND ENVIRO	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-48	Laboratory and Field Testing Services (Not Otherwise Classified) Incl. Hazardous Waste	961-48-50	LABORATORY SERVICES FOR HAZARDOUS WASTE AND ENVIRONMENTAL POLLUTANTS ANALYSIS
02 50 00; 09 90 00	Site Remediation; Painting and Coating	968-67	Sandblasting Services (See 910-83 for Sandblasting	968	PUBLIC WORKS AND RELATED SERVICES	968-67	Sandblasting Services (See 910-83 for Sandblasting of Buildings)		
03 00 00	Concrete	445-19	Concrete Tools and Accessories (Not Otherwise Clas	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-19	Concrete Tools and Accessories (Not Otherwise Classified)		
03 00 00	Concrete	720-10	Boom Pumps and Parts, Concrete	720	PUMPING EQUIPMENT AND ACCESSORIES	720-10	Boom Pumps and Parts, Concrete		
03 00 00; 32 10 00	Concrete; Bases, Ballasts and Paving	745-21-20	CONCRETE, BITUMINOUS, SURFACE COARSE, CLASS I	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-21	Asphaltic Concrete, Hot Laid Including Bituminous Materials	745-21-20	CONCRETE, BITUMINOUS, SURFACE COARSE, CLASS I
03 00 00; 32 10 00	Concrete; Bases, Ballasts and Paving	913-19-29	CURB AND GUTTER, CONCRETE.	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-19	Construction, Curb and Gutter (Includes Maintenance, Repair, and Removal)	913-19-29	CURB AND GUTTER, CONCRETE. THIS WORK SHALL CONSIST OF CONCRETE CURB, CONCRETE GUTTER, COMBINATION CURB AND GUTTER. IT SHALL INCLUDE EXCAVATION OF THE SUBGRADE, LAYING A SUB-BASE, FORMS AND FURNISHING AND INSTALLING ALL JOINTSAS REQUIRED.
03 00 00	Concrete	968-80-42	FOUNDATIONS, CONCRETE. THIS WORK SHALL CONSIST OF	968	PUBLIC WORKS AND RELATED SERVICES	968-80	Traffic Sign Installation and/or Removal Services	968-80-42	FOUNDATIONS, CONCRETE. THIS WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT CONCRETE FOUNDATIONS AS SPECIFIED FOR TRAFFIC SIGNS.
03 30 00; 09 30 00	Cast-In-Place Concrete; Tiling	135-80	Tile-Set (For Ceramic Tiles)	135	BRICKS, CLAY, REFRACTORY MATERIALS, STONE, AND TILE PRODUCTS	135-80	Tile-Set (For Ceramic Tiles)		
03 30 00	Cast-In-Place Concrete	150-15	Concrete, Polymer, All Types	150	BUILDER'S SUPPLIES	150-15	Concrete, Polymer, All Types		
03 30 00	Cast-In-Place Concrete	150-15-35	CONCRETE, POLYMER	150	BUILDER'S SUPPLIES	150-15	Concrete, Polymer, All Types	150-15-35	CONCRETE, POLYMER
03 30 00	Cast-In-Place Concrete	150-16-31	CURING MIXTURES AND SEALANTS, CONCRETE	150	BUILDER'S SUPPLIES	150-16	Curing Mixtures, All Types (For Curing Concrete)	150-16-31	CURING MIXTURES AND SEALANTS, CONCRETE
03 30 00	Cast-In-Place Concrete	192-25	Concrete Strippers and Brick Detergents	192	CLEANING COMPOSITIONS, DETERGENTS, SOLVENTS, AND STRIPPERS - PREPACKAGED	192-25	Concrete Strippers and Brick Detergents		
03 30 00	Cast-In-Place Concrete	445-85	Trowels and Floats, All Kinds	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-85	Trowels and Floats, All Kinds		
03 40 00	Precast Concrete	210-13-54	PANELS, CONCRETE, PRECAST	210	CONCRETE AND METAL PRODUCTS, CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES	210-13	Box Voids and Void Concrete Forms (Including Chemical Release Agents)	210-13-54	PANELS, CONCRETE, PRECAST
03 40 00	Precast Concrete	210-13-57	PANELS, CONCRETE, REINFORCED, PRE-STRESSED	210	CONCRETE AND METAL PRODUCTS, CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES	210-13	Box Voids and Void Concrete Forms (Including Chemical Release Agents)	210-13-57	PANELS, CONCRETE, REINFORCED, PRE-STRESSED
04 20 00	Unit Masonry	210-10	Blocks, Hollow and Solid, Lightweight	210	CONCRETE AND METAL PRODUCTS, CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES	210-10	Blocks, Hollow and Solid, Lightweight		
04 20 00	Unit Masonry	210-11	Blocks, Hollow and Solid, Normal Weight	210	CONCRETE AND METAL PRODUCTS, CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES	210-11	Blocks, Hollow and Solid, Normal Weight		
04 20 00; 09 90 00	Unit Masonry; Painting and Coating	630-22-31	COMPOUNDS, SEALING, MASONRY	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-22	Fillers and Sealers, Masonry: Block Fillers, Water Repellent Solutions, etc.	630-22-31	COMPOUNDS, SEALING, MASONRY
04 20 00; 09 90 00	Unit Masonry; Painting and Coating	630-22	Fillers and Sealers, Masonry: Block Fillers, Water	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-22	Fillers and Sealers, Masonry: Block Fillers, Water Repellent Solutions, etc.		
05 00 00	Metals	105-12	Ball Bearings and Parts	105	BEARINGS (SEE CLASS 060 FOR WHEEL BEARINGS)	105-12	Ball Bearings and Parts		
05 00 00	Metals	105-18	Bearing Assemblies (Including Hanger Bearings and	105	BEARINGS (SEE CLASS 060 FOR WHEEL BEARINGS)	105-18	Bearing Assemblies (Including Hanger Bearings and Custom-Made Bearings)		
05 00 00	Metals	895-10	Arc Welders, Electric Driven	895	WELDING EQUIPMENT AND SUPPLIES	895-10	Arc Welders, Electric Driven		
05 00 00	Metals	895-21	Arc Welders, Wire, Self-Feeder	895	WELDING EQUIPMENT AND SUPPLIES	895-21	Arc Welders, Wire, Self-Feeder		
05 00 00	Metals	895-65	Welder/Soldering Unit, Refrigeration/Plumber Type,	895	WELDING EQUIPMENT AND SUPPLIES	895-65	Welder/Soldering Unit, Refrigeration/Plumber Type, Single Tank, Complete		
05 00 00	Metals	895-70	Welding Accessories: Cutting Tips, Hammers, Hose,	895	WELDING EQUIPMENT AND SUPPLIES	895-70	Welding Accessories: Cutting Tips, Hammers, Hose, Inspection Shields, Lighters, Lighter		
05 00 00	Metals	895-72	Welding Gloves, Protective Aprons, Capes, and Slee	895	WELDING EQUIPMENT AND SUPPLIES	895-72	Flints, Soapstone, Tip Cleaner, Tip Dip, etc.		
05 00 00	Metals	895-74	Welding Goggles, Helmets, Chin Straps, and Face Sh	895	WELDING EQUIPMENT AND SUPPLIES	895-74	Welding Gloves, Protective Aprons, Capes, and Sleeves		
05 00 00	Metals	895-90	Welding Electrodes, Flux, Rods, Wire, and Solderin	895	WELDING EQUIPMENT AND SUPPLIES	895-90	Welding Goggles, Helmets, Chin Straps, and Face Shields		
05 00 00	Metals	895-94	Welding Safety Shields/Curtains/Partitions	895	WELDING EQUIPMENT AND SUPPLIES	895-94	Welding Electrodes, Flux, Rods, Wire, and Soldering Compounds		
05 00 00	Metals	910-76	Welding Maintenance Repair Serv(Brazing, Casting, and Solder	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-76	Welding Safety Shields/Curtains/Partitions		
05 00 00	Metals	936-95	Welding Equipment Maintenance and Repair	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-95	Welding Maintenance and Repair Services (Incl. Brazing, Casting, and Soldering)		
05 00 00	Metals	430-92-55	OXYGEN WELDING GASES	430	GASES, CONTAINERS, EQUIPMENT: LABORATORY, MEDICAL, AND WELDING	430-92	Welding Equipment Maintenance and Repair		
05 00 00	Metals	430-92-55	OXYGEN WELDING GASES	430	GASES, CONTAINERS, EQUIPMENT: LABORATORY, MEDICAL, AND WELDING	430-92	Welding and Industrial Gases: Acetylene, Argon, Carbon Dioxide, Oxygen, etc.	430-92-55	OXYGEN WELDING GASES
05 50 00	Metal Fabrications	570-23	Expanded Metal (Not Stainless)	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-23	Expanded Metal (Not Stainless)		

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05 50 00	Metal Fabrications	570-54-73	SHEET METAL, FABRICATED	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-54	Sheet Metal, Fabricated (Custom-Made Sheet Metal Items)	570-54-73	SHEET METAL, FABRICATED
05 50 00	Metal Fabrications	570-64-11	BARS, ROUND, STAINLESS STEEL, TYPE 303SU-COND	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-64	Stainless Steel: Bars, Plates, Rods, Sheets, Strips, Tubes, etc.	570-64-11	BARS, ROUND, STAINLESS STEEL, TYPE 303S
05 50 00	Metal Fabrications	570-64-85	TUBING, STAINLESS STEEL	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-64	Stainless Steel: Bars, Plates, Rods, Sheets, Strips, Tubes, etc.	570-64-85	TUBING, STAINLESS STEEL
05 50 00	Metal Fabrications	570-66-74	SHEETS, STEEL, COLD ROLLED, BLACK	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-66	Steel, Cold Rolled: Bars, Plates, Rods, Sheets, and Strips	570-66-74	SHEETS, STEEL, COLD ROLLED, BLACK
05 50 00	Metal Fabrications	570-77	Steel, Reinforcing, Mesh	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-77	Steel, Reinforcing, Mesh		
05 50 00	Metal Fabrications	570-77-10	WIRE MESH	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-77	Steel, Reinforcing, Mesh	570-77-10	WIRE MESH
05 50 00	Metal Fabrications	570-77-36	WIRE, REINFORCING, WIRE FABRIC, WELDED STEEL, FOR	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-77	Steel, Reinforcing, Mesh	570-77-36	WIRE, REINFORCING, WIRE FABRIC, WELDED STEEL, FOR ROADWAY FOUNDATIONS
05 50 00	Metal Fabrications	570-81	Steel Studs, Dry Wall	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-81	Steel Studs, Dry Wall		
05 50 00	Metal Fabrications	570-90 *	Tubing, Mechanical, Steel: Rectangular, Round, Squ	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-90	Tubing, Mechanical, Steel: Rectangular, Round, Square, etc. (See 570-91 for Structural Tubing)		
06 10 00	Rough Carpentry	540-09	Blocking Wood	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-09	Blocking Wood		
06 10 00	Rough Carpentry	540-14-70	LUMBER, CEDAR, ROUGH	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-14	Lumber, Cedar	540-14-70	LUMBER, CEDAR, ROUGH
06 10 00	Rough Carpentry	540-41-87	TIMBER, LANDSCAPE, WOLMANIZED, KILN DRIED	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-41	Lumber, Treated: Creosote, Penta, Wolmanized, etc.	540-41-87	TIMBERS, LANDSCAPE, WOLMANIZED, KILN DRIED
06 10 00	Rough Carpentry	540-47-26	LUMBER, YELLOW PINE, NO.2	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-47	Lumber, Yellow Pine	540-47-26	LUMBER, YELLOW PINE, NO.2
06 10 00	Rough Carpentry	540-47-72	SHEATHING, EXTERIOR CDX, YELLOW PINE	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-47	Lumber, Yellow Pine	540-47-72	SHEATHING, EXTERIOR CDX, YELLOW PINE
06 10 00	Rough Carpentry	540-75-54	RAILINGS, OAK	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-75	Railings	540-75-54	RAILINGS, OAK
06 20 00	Finish Carpentry	540-75	Railings	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-75	Railings		
06 60 00	Plastic Fabrications	665-34	Fiberglass, Plastic and Poly. Castings	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-34	Fiberglass, Plastic and Poly. Castings		
06 60 00	Plastic Fabrications	665-36	Fiberglass Supplies: Catalysts, Cloth, Resins, etc	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-36	Fiberglass Supplies: Catalysts, Cloth, Resins, etc.		
06 60 00	Plastic Fabrications	665-48	Mesh Screening, Fiberglass and Plastic	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-48	Mesh Screening, Fiberglass and Plastic		
06 60 00	Plastic Fabrications	665-66-26	CASTINGS, FIBERGLASS LID CIRCLE	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-66	Plastic Forming and Molding Equipment: Blow Molding, Extrusion Equipment, Injection Molding, Vacuum Forming, etc.	665-66-26	CASTINGS, FIBERGLASS LID CIRCLE
06 60 00	Plastic Fabrications	665-71-48	LAMINATES, PLASTIC, GRADE UNITS	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-71	Plastic Laminates: Decorative, High and Low Pressure Type Veneers (As Used for DeskTops, Cabinetry, etc.)	665-71-48	LAMINATES, PLASTIC, GRADE UNITS
06 60 00	Plastic Fabrications	665-79-70	SHEETS, POLYVINYL CHLORIDE	665	PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, FORMING, LAMINATING, AND MOLDING EQUIPMENT, ACCESSORIES, AND SUPPLIES	665-79	Polyvinyl Chloride Rods and Sheets	665-79-70	SHEETS, POLYVINYL CHLORIDE
06 60 00	Plastic Fabrications	914-65	Plastics	914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-65	Plastics		
07 00 00	Operation and Maintenance of Thermal and Moisture Protection	910-78	Weather and Waterproofing Maintenance and Repair Svc	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-78	Weatherization, Weather and Waterproofing Maintenance and Repair Services		
07 10 00	Dampproofing and Waterproofing	285-42-74	SEALANTS, WATERPROOF	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-42	Insulation Materials and Insulators: Compounds, Varnish, etc.	285-42-74	SEALANTS, WATERPROOF
07 10 00	Dampproofing and Waterproofing	940-29-87	WATERPROOFING, MEMBRANE. THIS WORK SHALL CONSIST O	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-29	Construction, Elevated Transit Station (Including Rehab., Maintenance and Repair)	940-29-87	WATERPROOFING, MEMBRANE. THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTING AND PLACING ALL MATERIALS REQUIRED TO CONSTRUCT A MEMBRANE WATERPROOFING SYSTEM ON ELEVATED STATION STRUCTURES.
07 10 00	Dampproofing and Waterproofing	940-34-87	WATERPROOFING, MEMBRANE. THIS WORK SHALL CONSIST O	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-34	Construction, Transit Facility, Other (Including Rehab., Maintenance and Repair)	940-34-87	WATERPROOFING, MEMBRANE. THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTING AND PLACING ALL MATERIALS REQUIRED TO CONSTRUCT A MEMBRANE WATERPROOFING SYSTEM ON SUBWAY STATION STRUCTURES.
07 10 00	Dampproofing and Waterproofing	968-94-66	WATERPROOF MEMBRANE REPAIR.	968	PUBLIC WORKS AND RELATED SERVICES	968-94	Waterproofing Systems and Repair	968-94-66	WATERPROOF MEMBRANE REPAIR.
07 20 00	Thermal Protection	285-42	Insulation Materials and Insulators: Compounds, Va	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-42	Insulation Materials and Insulators: Compounds, Varnish, etc.		
07 40 00	Roofing and Siding Panels	770-48	Paper, Roofing	770	ROOFING MATERIALS AND SUPPLIES	770-48	Paper, Roofing		
07 40 00	Roofing and Siding Panels	770-56-20	ROOFING, ALUMINUM, CORRUGATED	770	ROOFING MATERIALS AND SUPPLIES	770-56	Roofing, Aluminum: Corrugated, V-Crimp, etc.	770-56-20	ROOFING, ALUMINUM, CORRUGATED
07 40 00	Roofing and Siding Panels	770-60	Roofing, Baked Enamel Sheet Steel: Corrugated, V-C	770	ROOFING MATERIALS AND SUPPLIES	770-60	Roofing, Baked Enamel Sheet Steel: Corrugated, V-Crimp, etc.		
07 40 00	Roofing and Siding Panels	770-73	Roofing, Tin	770	ROOFING MATERIALS AND SUPPLIES	770-73	Roofing, Tin		
07 40 00	Roofing and Siding Panels	770-73-28	ROOFING, TIN	770	ROOFING MATERIALS AND SUPPLIES	770-73	Roofing, Tin	770-73-28	ROOFING, TIN
07 40 00	Roofing and Siding Panels	770-73-30	ROOFING, TIN, CORRUGATED	770	ROOFING MATERIALS AND SUPPLIES	770-73	Roofing, Tin	770-73-30	ROOFING, TIN, CORRUGATED
07 40 00	Roofing and Siding Panels	936-70	Roofing Equipment and Machinery Maintenance and Re	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-70	Roofing Equipment and Machinery Maintenance and Repair		
07 90 00; 32 10 00	Joint Protection; Site Improvements	913-96-47	JOINT RESEALING. THIS WORK SHALL CONSIST OF RESEAL	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-96	Paving/Resurfacing, Street (Major and Residential)	913-96-47	JOINT RESEALING. THIS WORK SHALL CONSIST OF RESEALING ALL TRANSVERSE CONTRACTION JOINTS, CONSTRUCTION JOINTS, LONGITUDINAL JOINTS, AND EXPANSION JOINTS WITHIN THE LIMITS OF EXISTING PAVEMENT.
08 00 00	Operation and Maintenance of Openings	910-30	Glass Replacement, Maintenance, and Repair	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-30	Glass Replacement, Maintenance, and Repair		
08 50 00	Windows	440-56-09	GLASS, PLATE	440	GLASS AND GLAZING SUPPLIES	440-56	Annealed Glass	440-56-09	GLASS, PLATE
08 50 00	Windows	440-73-11	GLASS, THERMO	440	GLASS AND GLAZING SUPPLIES	440-73	Thermo Glass (Insulated)	440-73-11	GLASS, THERMO
08 50 00	Windows	440-84-30	GLASS, WIRE, WINDOW, CLEAR	440	GLASS AND GLAZING SUPPLIES	440-84	Wire Glass	440-84-30	GLASS, WIRE, WINDOW, CLEAR
08 50 00	Windows	910-79	Window Installation, Maintenance and Repair (Metal)	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-79	Window Installation, Maintenance and Repair (Metal)		
08 70 00	Hardware	450-88	Wire and Accessories, Clothesline	450	HARDWARE AND RELATED ITEMS	450-88	Wire and Accessories, Clothesline		
08 70 00	Hardware	910-48	Locksmith Services	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-48	Locksmith Services		
09 00 00	Maintenance of Finishes	910-24	Fire and/or Water Damage Restoration Services	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-24	Fire and/or Water Damage Restoration Services		
09 00 00	Maintenance of Finishes	910-45	Lathing and Plastering Maintenance and Repair Serv	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-45	Lathing and Plastering Maintenance and Repair Services		
09 00 00	Maintenance of Finishes	910-75	Wall and Ceiling Repair and Replacement (Incl Drywalling)	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-75	Wall and Ceiling Repair and Replacement (Including Drywalling)		
09 20 00	Plaster and Gypsum Board	914-64	Plastering	914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-64	Plastering		
09 20 00	Plaster and Gypsum Board	914-80	Stucco	914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-80	Stucco		
09 30 00	Tiling	360-78	Tile, Coping Double Slant	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-78	Tile, Coping Double Slant		
09 30 00	Tiling	360-83	Tile, Rubber	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-83	Tile, Rubber		
09 30 00	Tiling	360-85	Tile, Vinyl	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-85	Tile, Vinyl		
09 60 00	Flooring	360-22	Installation Supplies: Adhesive Edge Strip, Seam T	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-22	Installation Supplies: Adhesive Edge Strip, Seam Tape, Tack Strips, etc.		
09 60 00	Flooring	360-30	Padding and Cushioning, Carpet	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-30	Padding and Cushioning, Carpet		
09 60 00	Flooring	360-89	Tools and Equipment, Floor Installation	360	FLOOR COVERING, FLOOR COVERING INSTALLATION AND REMOVAL EQUIPMENT, AND SUPPLIES	360-89	Tools and Equipment, Floor Installation		
09 90 00	Painting and Coating	145-45	Paint and Varnish	145	BRUSHES (SEE CLASS 485 FOR JANITORIAL TYPE)	145-45	Paint and Varnish		
09 90 00	Painting and Coating	630-03	Additives and Miscellaneous Paint Ingredients: Dri	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-03	Additives and Miscellaneous Paint Ingredients: Driers, Fungicides, Latexes, Pigments, Surfactants, etc.		
09 90 00	Painting and Coating	630-06	Caulking Compounds, Bulk or Cartridge Type	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-06	Caulking Compounds, Bulk or Cartridge Type		
09 90 00	Painting and Coating	630-19	Coatings, Protective, Zinc-Rich (Cold Galvanizing	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-19	Coatings, Protective, Zinc-Rich (Cold Galvanizing Compound)		
09 90 00	Painting and Coating	630-21-60	PAINT, BASE COLOR	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-21	Colors, Tinting (Oil, Mineral Silicate, or Universal Type) and Lettering	630-21-60	PAINT, BASE COLOR
09 90 00	Painting and Coating	630-56-60	PAINT, EXTERIOR, LATEX, WATER BASE	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-56	Paint, House and Trim	630-56-60	PAINT, LATEX, EXTERIOR, WATER BASE

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09 90 00	Painting and Coating	630-61	Paint, Masonry	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-61	Paint, Masonry (To Include Silicate Paints)		
09 90 00	Painting and Coating	630-61-22	PAINT, BRIDGE	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-61	Paint, Masonry (To Include Silicate Paints)	630-61-22	PAINT, BRIDGE
09 90 00	Painting and Coating	630-62	Paint, Rust Preventative	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-62	Paint, Rust Preventative		
09 90 00	Painting and Coating	630-64	Paint, Spray (Aerosol)	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-64	Paint, Spray (Aerosol)		
09 90 00	Painting and Coating	630-66	Paints, Traffic	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-66	Paints, Traffic		
09 90 00	Painting and Coating	630-72	Primers, Rust Inhibiting: Red Oxide, Zinc Chromate	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-72	Primers, Rust Inhibiting: Red Oxide, Zinc Chromate, etc.		
09 90 00	Painting and Coating	630-82	Sealers and Primers, Paint	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-82	Sealers and Primers, Paint		
09 90 00	Painting and Coating	630-82-72	PRIMER, LATEX, EXTERIOR	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-82	Sealers and Primers, Paint	630-82-72	PRIMER, LATEX, EXTERIOR
09 90 00	Painting and Coating	630-82-73	PRIMER, PAINT, ALL PURPOSE	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-82	Sealers and Primers, Paint	630-82-73	PRIMER, PAINT, ALL PURPOSE
09 90 00	Painting and Coating	630-84	Stains and Varnishes	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-84	Stains and Varnishes		
09 90 00	Painting and Coating	630-90	Thinners (Reducers): Alcohols, Aromatic Solvents,	630	PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER, AND RELATED PRODUCTS	630-90	Thinners (Reducers): Alcohols, Aromatic Solvents, Esters, Ketones, Mineral Spirits, Turpentine, V M and P Naphtha, etc.		
09 90 00	Painting and Coating	912-76	Striping Streets, Parking Facilities, Lane Divisio	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-76	Striping Streets, Parking Facilities, Lane Divisions, etc. (Paint)		
10 10 00	Information Specialties	578-50	Holders, Metal: Card, Door Name Card, Label, etc.	578	MISCELLANEOUS PRODUCTS (NOT OTHERWISE CLASSIFIED)	578-50	Holders, Metal: Card, Door Name Card, Label, etc.		
10 10 00	Information Specialties	801-09-31	BLANKS, SIGN, EXTRUDED ALUMINUM	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-09	Blanks, Sign, Metal (See 801-71, 89, and 97 for other Sign Blanks)	801-09-31	BLANKS, SIGN, EXTRUDED ALUMINUM
10 10 00	Information Specialties	801-12	Brackets and Holders, Sign	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-12	Brackets and Holders, Sign		
10 10 00	Information Specialties	801-20	Letters and Numerals, Sign (To Include Logos)	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-20	Letters and Numerals, Sign (To Include Logos)		
10 10 00	Information Specialties	801-30	Posts, Standards, Supports, and Expansion Plugs	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-30	Posts, Standards, Supports, and Expansion Plugs		
10 10 00	Information Specialties	801-49	Sign Material, Reflective (See 550-45 for Reflecti	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-49	Sign Material, Reflective (See 550-45 for Reflective Sheeting for other than Signs)		
10 10 00	Information Specialties	801-50	Sign Material, Reflective (Die Cut)(See 550-45 for	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-50	Sign Material, Reflective (Die Cut)(See 550-45 for Reflective Sheeting for other than Signs)		
10 10 00	Information Specialties	801-59	Signs: Braille (Including Markers and Plaques)	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-59	Signs: Braille (Including Markers and Plaques)		
10 10 00	Information Specialties	801-71-90	SIGNS, WARNING, TRAFFIC, FIBERGLASS	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-71	Signs, Fiberglass (Including Blanks)	801-71-90	SIGNS, WARNING, TRAFFIC, FIBERGLASS
10 10 00	Information Specialties	801-76	Signs and Posters, Informational (No Smoking, Fire	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-76	Signs and Posters, Informational (No Smoking, Fire Extinguisher, etc.)		
10 10 00	Information Specialties	801-76-47	SIGNS, NO SMOKING	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-76	Signs and Posters, Informational (No Smoking, Fire Extinguisher, etc.)	801-76-47	SIGNS, NO SMOKING
10 10 00	Information Specialties	801-89-35	SIGNS, POLYVINYL, MAGNETIC, SILK SCREENED	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-89	Signs, Plastic and Polyethylene (Including Blanks)	801-89-35	SIGNS, POLYVINYL, MAGNETIC, SILK SCREENED
10 10 00	Information Specialties	801-94	Signs, Runway and Taxiway	801	SIGNS, SIGN MATERIALS, SIGN MAKING EQUIPMENT, AND RELATED SUPPLIES	801-94	Signs, Runway and Taxiway		
10 40 00	Safety Specialties	340-72	Rescue Equipment, Supplies and Accessories Includi	340	FIRE PROTECTION EQUIPMENT AND SUPPLIES	340-72	Rescue Equipment, Supplies and Accessories Including Rescue Nets, Power Extractors (Jaws of Life), Rope and Life Harnesses, etc.		
10 40 00	Safety Specialties	340-87	Training Equipment and Supplies, Fire and Safety	340	FIRE PROTECTION EQUIPMENT AND SUPPLIES	340-87	Training Equipment and Supplies, Fire and Safety		
10 40 00	Safety Specialties	345-10	C.P.R. Equipment and Supplies (See 345-68 For Mode	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-10	C.P.R. Equipment and Supplies (See 345-68 For Models)		
10 40 00	Safety Specialties	345-56	Hats and Helmets, Safety	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-56	Hats and Helmets, Safety (Incl. Fire Helmets)		
10 40 00	Safety Specialties	345-64	Head, Ear, Eye and Face Protection	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-64	Head, Ear, Eye and Face Protection		
10 40 00	Safety Specialties	345-65	Labels, Warning	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-65	Labels, Warning		
10 40 00	Safety Specialties	345-66	Lockout and Tagout Safety Kits and Supplies	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-66	Lockout and Tagout Safety Kits and Supplies		
10 40 00	Safety Specialties	345-72	Masks, Filters, and Parts: Dust and Gas	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-72	Masks, Filters, and Parts: Dust and Gas		
10 40 00	Safety Specialties	345-72-51	MASK, RESPIRATOR	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-72	Masks, Filters, and Parts: Dust and Gas	345-72-51	MASKS, RESPIRATOR
10 40 00	Safety Specialties	345-80	Respiratory Protection Equipment and Parts	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-80	Respiratory Protection Equipment and Parts (Including CPAP Equipment and Parts)		
10 40 00	Safety Specialties	345-80-55	PARTS AND ACCESSORIES, RESPIRATOR	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-80	Respiratory Protection Equipment and Parts (Including CPAP Equipment and Parts)	345-80-55	PARTS AND ACCESSORIES, RESPIRATOR
10 40 00	Safety Specialties	345-92	Vest, Safety	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-92	Vests, Safety		
10 40 00	Safety Specialties	450-66	Rope Slings and Halyards	450	HARDWARE AND RELATED ITEMS	450-66	Rope Slings, Halyards and Lanyards (See 765-93 for Wire Rope)		
10 40 00	Safety Specialties	990-42	Fire and Safety Services	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY)	990-42	Fire and Safety Services		
10 40 00	Safety Specialties	990-46	Guard and Security Services (Including Traffic Control)	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY)	990-46	Guard and Security Services		
10 40 00	Safety Specialties	990-52	Investigative Services	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY)	990-52	Investigative Services		
10 50 00	Storage Specialties	680-61	Lockers, Security	680	POLICE, PRISON AND SECURITY ACCESS EQUIPMENT AND SUPPLIES	680-61	Lockers, Security		
10 70 00	Exterior Specialties	962-37	Flagpoles	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-37	Flagpole Services		
10 80 00	Other Specialties	909-79	Specialties: Chalkboards, Fireplace, Storage, etc.	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-79	Specialties: Chalkboards, Fireplace, Storage, etc.		
11 20 00	Commercial Equipment	365-10	Brushes and Pads, Floor Machine Type	365	FLOOR MAINTENANCE MACHINES, PARTS, AND ACCESSORIES	365-10	Brushes and Pads, Floor Machine Type		
11 20 00	Commercial Equipment	485-04	Applicators, Floor Finish, All Types [Except Brush	485	JANITORIAL SUPPLIES, GENERAL LINE	485-04	Applicators, Floor Finish, All Types (Except Brushes)		
11 20 00	Commercial Equipment	545-26	Industrial Type Steam and High Pressure Water Clea	545	MACHINERY AND HARDWARE, INDUSTRIAL	545-26	Industrial Type Steam and High Pressure Water Cleaning Equipment, Accessories and Supplies		
11 20 00	Commercial Equipment	545-26-54	PARTS, PARTEK WATER BLASTER (PARTEK OR EQUAL)	545	MACHINERY AND HARDWARE, INDUSTRIAL	545-26	Industrial Type Steam and High Pressure Water Cleaning Equipment, Accessories and Supplies	545-26-54	PARTS, PARTEK WATER BLASTER (PARTEK OR EQUAL)
11 30 00	Residential Appliances	931-07	Appliances and Equipment, Household, (Not Laundry	931	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR APPLIANCE, ATHLETIC, CAFETERIA, FURNITURE, MUSICAL INSTRUMENTS, AND SEWING EQUIPMENT	931-07	Appliances and Equipment, Household, (Not Laundry or HVAC) Maintenance and Repair		
11 50 00	Educational and Scientific Equipment	493-10	Chemical Reactors: High-Pressure (Autoclaves), Cat	493	LABORATORY EQUIPMENT, ACCESSORIES, AND SUPPLIES: BIOCHEMISTRY, CHEMISTRY, ENVIRONMENTAL SCIENCE, ETC.	493-10	Chemical Reactors: High-Pressure (Autoclaves), Catalytic, Fluid-Bed, Photochemical, etc.		
11 50 00	Educational and Scientific Equipment	493-54	Photometers, Photoelectric (Colorimeters, Transmit	493	LABORATORY EQUIPMENT, ACCESSORIES, AND SUPPLIES: BIOCHEMISTRY, CHEMISTRY, ENVIRONMENTAL SCIENCE, ETC.	493-54	Photometers, Photoelectric (Colorimeters, Transmittance)		
11 50 00	Educational and Scientific Equipment	493-69	Spectrometers, Emission: Argon Plasma and Conventi	493	LABORATORY EQUIPMENT, ACCESSORIES, AND SUPPLIES: BIOCHEMISTRY, CHEMISTRY, ENVIRONMENTAL SCIENCE, ETC.	493-69	Spectrometers, Emission: Argon Plasma and Conventional		
11 60 00	Entertainment Equipment	650-18	Combination Sets, Playground	650	PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIPMENT AND SUPPLIES	650-18	Combination Sets, Playground		
11 60 00	Entertainment Equipment	650-30	Ice Rink Resurfacer	650	PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIPMENT AND SUPPLIES	650-30	Ice Rink Resurfacer		
11 60 00	Entertainment Equipment	650-50	Safety Surfaces, Playground	650	PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIPMENT AND SUPPLIES	650-50	Safety Surfaces, Playground		
11 60 00	Entertainment Equipment	805-60	Gymnasium Mats, Covers, Hangers, and Trucks	805	SPORTING GOODS, ATHLETIC EQUIPMENT AND ATHLETIC FACILITY EQUIPMENT	805-60	Gymnasium Mats, Covers, Hangers, and Trucks		
11 60 00	Entertainment Equipment	988-63	Park Area Construction/Renovation	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-63	Park Area Construction/Renovation		
11 70 00	Healthcare Equipment	898-70	Radiological Furniture: Cabinets, Files, Tables, e	898	X-RAY AND OTHER RADIOLOGICAL EQUIPMENT AND SUPPLIES (MEDICAL)	898-70	Radiological Furniture: Cabinets, Files, Tables, etc.		
11 90 00	Other Equipment	545-27 *	Jacks, Industrial: Hydraulic, Screw, and Track	545	MACHINERY AND HARDWARE, INDUSTRIAL	545-27	Jacks, Industrial: Hydraulic, Screw, and Track		
12 00 00	Furnishings	909-48	Furnishings: Artwork, Cabinets, Furniture, Window Treatments	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-48	Furnishings: Artwork, Cabinets, Furniture, Window Treatments, etc.		
12 20 00	Window Treatments	910-12	Drapery Fabrication Services	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-12	Drapery and Curtain Fabrication Services		
12 40 00	Furnishings and Accessories	425-71	Safe Files	425	FURNITURE: OFFICE	425-71	Safe Files		
12 40 00	Furnishings and Accessories	425-80	Shelving, Metal (Not Library or Shop)	425	FURNITURE: OFFICE	425-80	Shelving, Metal (Not Library or Shop)		
12 40 00	Furnishings and Accessories	918-54	Furnishings Consulting	918	CONSULTING SERVICES	918-54	Furnishings Consulting		
12 60 00	Multiple Seating	650-06	Benches, Park (Including Bus Stop Benches)	650	PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIPMENT AND SUPPLIES	650-06	Benches, Park (Including Bus Stop Benches)		
12 60 00	Multiple Seating	650-36	Picnic Tables	650	PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIPMENT AND SUPPLIES	650-36	Picnic Tables		
13 10 00	Special Facility Components	912-33	Construction, Swimming Pool	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-33	Construction, Swimming Pool		
13 20 00	Special Purpose Rooms	912-35	Construction, Tennis/Sports Court	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-35	Construction, Tennis/Sports Court		
13 20 00	Special Purpose Rooms	912-65	Maintenance and Repair, Tennis/Sport Court	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-65	Maintenance and Repair, Tennis/Sport Court		
13 30 00	Special Structures	909-25	Building Construction, Prefabricated (All Types)	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-25	Building Construction, Prefabricated (All Types)		
13 30 00	Special Structures	910-69	Shelters, Carports, Portable Buildings, etc. Maintnce Repair	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-69	Shelters, Carports, Portable Buildings, etc. Maintenance and Repair		
13 30 00	Special Structures	971-08	Building, Fabricated, Rental or Lease	971	REAL PROPERTY RENTAL OR LEASE	971-08	Building, Fabricated, Pre-Fabricated or Pre-manufactured, Rental or Lease		
21 20 00	Fire-Extinguishing Systems	340-06	Brackets, Clamps and Holders for Fire Fighting Equ	340	FIRE PROTECTION EQUIPMENT AND SUPPLIES	340-06	Brackets, Clamps and Holders for Fire Fighting Equipment		
22 10 00; 33 30 00	Plumbing Piping: Sanitary Sewerage Utilities	659-06-77	ADAPTERS, PVC, SCH. 40	659	PIPE AND TUBING FITTINGS	659-06	Adapters	659-06-77	ADAPTERS, PVC, SCH. 40

Item 4d.

CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
22 10 00; 33 30 00	Plumbing Piping; Sanitary Sewerage Utilities	659-17-65	BENDS, DUCTILE IRON, MECH. JOINT	659	PIPE AND TUBING FITTINGS	659-17	Bends	659-17-65	BENDS, DUCTILE IRON, MECH. JOINT
22 10 00; 33 30 00	Plumbing Piping; Sanitary Sewerage Utilities	659-54-37	PLUGS, CAST IRON, MECHANICAL JOINT	659	PIPE AND TUBING FITTINGS	659-54	Offsets, Plugs, Pipe Rests	659-54-37	PLUGS, CAST IRON, MECHANICAL JOINT
22 10 00; 33 30 00	Plumbing Piping; Sanitary Sewerage Utilities	659-73-84	SLEEVES, COUPLING, STEEL	659	PIPE AND TUBING FITTINGS	659-73	Saddles, Sleeves, Straps	659-73-84	SLEEVES, COUPLING, STEEL
22 10 00; 33 30 00	Plumbing Piping; Sanitary Sewerage Utilities	659-73-85	SLEEVES, STEEL	659	PIPE AND TUBING FITTINGS	659-73	Saddles, Sleeves, Straps	659-73-85	SLEEVES, STEEL
22 00 00	Plumbing	670-05 *	Cement and Cleaners (For Plastic Conduit, Fittings	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-05	Cement and Cleaners (For Plastic Conduit, Fittings, and Pipe)		
22 00 00	Plumbing	670-06	Compound, Pipe Joint and Tape	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-06	Compound, Pipe Joint and Tape		
22 00 00	Plumbing	670-15	Hand Tools, Including Plungers	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-15	Hand Tools (Not Otherwise Classified)		
22 00 00	Plumbing	670-51	Pipe and Utility Markers	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-51	Pipe and Utility Markers		
22 00 00	Plumbing	670-54-89	TRAPS, PVC (REPAIR)	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-54	Plumbing Brass (Tubular Goods)	670-54-89	TRAPS, PVC (REPAIR)
22 00 00	Plumbing	670-58	Rubber Goods and Plumbing Specialties: Gaskets, L	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-58	Rubber Goods and Plumbing Specialties: Gaskets, Leathers, Seats, Washers, etc.		
22 00 00	Plumbing	670-58-30	GASKETS, NON-ASBESTOS	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-58	Rubber Goods and Plumbing Specialties: Gaskets, Leathers, Seats, Washers, etc.	670-58-30	GASKETS, NON-ASBESTOS
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-64	Supplies and Stops	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-64	Supplies and Stops		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-64-88	VALVES, STOP	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-64	Supplies and Stops	670-64-88	VALVES, STOP
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-68	Valves, Aluminum	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-68	Valves, Aluminum		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-70	Valves, Bronze: Angle, Ball, Check, Gate, Globe, e	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-70	Valves, Bronze: Angle, Ball, Check, Gate, Globe, etc.		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-71	Valves, Butterfly, All Kinds	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-71	Valves, Butterfly, All Kinds		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-71-09	VALVES, BUTTERFLY, CAST IRON, ELECTRICALLY OPERATE	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-71	Valves, Butterfly, All Kinds	670-71-09	VALVES, BUTTERFLY, CAST IRON, ELECTRICALLY OPERATED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-71-10	VALVES, BUTTERFLY, CAST IRON WAFER BODY	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-71	Valves, Butterfly, All Kinds	670-71-10	VALVES, BUTTERFLY, CAST IRON WAFER BODY
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-72	Valves, Chrome	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-72	Valves, Chrome		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-39	VALVES, BALL, BRONZE W/CAST IRON BODY, THREADED FE	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-39	VALVES, BALL, BRONZE W/CAST IRON BODY, THREADED FEMALE BOTH ENDS, 150 LB. SWP, 600 LB. WOG, 2000 PSI, TEFLON SEAT, PLASTIC HANDLE
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-43	VALVES, CHECK, CAST IRON, SWING, FLANGED	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-43	VALVES, CHECK, CAST IRON, SWING, FLANGED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-62	VALVES, GATE, CAST IRON, BLACK, W/BONNET TURN HAND	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-62	VALVES, GATE, CAST IRON, BLACK, W/BONNET TURN HANDLE, PIPE THREADED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-67	VALVES, GLOBE, CAST IRON BODY, FLANGED	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-67	VALVES, GLOBE, CAST IRON BODY, FLANGED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-74	VALVES, PLUG, CAST IRON, SARAN LINED, 125 LB. FLAN	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-74	VALVES, PLUG, CAST IRON, SARAN LINED, 125 LB. FLANGED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-75	VALVES, PLUG, CAST IRON, HIGH STRENGTH	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-75	VALVES, PLUG, CAST IRON, HIGH STRENGTH
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-75-85	VALVES, TAPPING CONNECTION (FLANGE INLET BY MECHAN	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-75	Valves, Iron Body: Angle, Check, Gate, Globe, etc.	670-75-85	VALVES, TAPPING CONNECTION (FLANGE INLET BY MECHANICAL JOINT OUTLET)
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-80	Valves, Solenoid Control	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-80	Valves, Solenoid Control		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-80-11	VALVES, SOLENOID, 3 WAY	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-80	Valves, Solenoid Control	670-80-11	VALVES, SOLENOID, 3 WAY
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-81	Valves, Stainless Steel: Angle, Ball, Check, Gate,	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-81	Valves, Stainless Steel: Angle, Ball, Check, Gate, Globe, etc.		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-82	Valves, Steel: Angle, Check, Gate, Globe, etc.	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-82	Valves, Steel: Angle, Check, Gate, Globe, etc.		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-82-18	VALVES, CHECK, CARBON STEEL BODY, SCREWED ENDS, HO	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-82	Valves, Steel: Angle, Check, Gate, Globe, etc.	670-82-18	VALVES, CHECK, CARBON STEEL BODY, SCREWED ENDS, HORIZONTAL TYPE, PISTON CHECK
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-82-46	VALVES, GATE, STEEL, FLANGED	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-82	Valves, Steel: Angle, Check, Gate, Globe, etc.	670-82-46	VALVES, GATE, STEEL, FLANGED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	670-88	Water Hammer Arrestor	670	PLUMBING EQUIPMENT, FIXTURES, AND SUPPLIES	670-88	Water Hammer Arrestor		
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-04 *	Pipe, Alloy Steel, Chrom-Moly, Stainless	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-04	Pipe, Alloy Steel, Chrom-Moly, Stainless		
33 40 00	Storm Drainage Utilities	658-34-30	PIPE, CONCRETE, REINFORCED	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-34	Pipe, Concrete	658-34-30	PIPE, CONCRETE, REINFORCED
33 40 00	Storm Drainage Utilities	658-34-31	PIPE, CONCRETE, REINFORCED, FULL CIRCLE	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-34	Pipe, Concrete	658-34-31	PIPE, CONCRETE, REINFORCED, FULL CIRCLE
33 10 00	Water Utilities	658-34-88	PIPE, WATER, CONCRETE, PRESTRESSED	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-34	Pipe, Concrete	658-34-88	PIPE, CONCRETE, WATER, PRESTRESSED
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-35-30	PIPE, COPPER	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-35	Pipe, Copper	658-35-30	PIPE, COPPER
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-46-38	PIPE, DUCTILE IRON, CLASS 53	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-46	Pipe, Iron (Includes Ductile Iron Pipe)	658-46-38	PIPE, DUCTILE IRON, CLASS 53
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-46-39	PIPE, DUCTILE IRON, CENTRIFUGALLY CAST, CLASS 55 W	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-46	Pipe, Iron (Includes Ductile Iron Pipe)	658-46-39	PIPE, DUCTILE IRON, CENTRIFUGALLY CAST, CLASS 55 W/PUSH-ON RUBBER GASKET JOINTS COMPLETE W/GASKET AND LUBRICANT
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-46-40	PIPE, DUCTILE IRON, CENTRIFUGALLY CAST, MECH. JOIN	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-46	Pipe, Iron (Includes Ductile Iron Pipe)	658-46-40	PIPE, DUCTILE IRON, CENTRIFUGALLY CAST, MECH. JOINT, B.S.
22 10 00; 33 10 00; 40 20 00	Plumbing Piping; Water Utilities; Liquids Process Piping	658-46-42	PIPE, WATER, DUCTILE IRON	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-46	Pipe, Iron (Includes Ductile Iron Pipe)	658-46-42	PIPE, DUCTILE IRON, WATER
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-58-38	PIPE, POLYETHYLENE	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-58	Pipe, Polyethylene	658-58-38	PIPE, POLYETHYLENE
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-60-16	PIPE, POLYVINYL CHLORIDE, SCHEDULE 40, PLAIN ENDS	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-60	Pipe, PVC (Polyvinyl Chloride)	658-60-16	PIPE, PVC, SCHEDULE 40, PLAIN ENDS
22 10 00; 33 30 00	Plumbing Piping; Sanitary Sewerage Utilities	658-60-40	PIPE, PVC, SEWER	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-60	Pipe, PVC (Polyvinyl Chloride)	658-60-40	PIPE, PVC, SEWER
22 10 00; 33 10 00; 33 30 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities	658-60-45	PIPE, PVC, UNDERGROUND DUCT	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-60	Pipe, PVC (Polyvinyl Chloride)	658-60-45	PIPE, PVC, UNDERGROUND DUCT
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-20	PIPE, STEEL, BLACK, PLAIN END	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-20	PIPE, STEEL, BLACK, PLAIN END

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CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-22	PIPE, STEEL, BLACK, SCH. 40, PLAIN END CONTINUOUS	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-22	PIPE, STEEL, BLACK, SCH. 40, PLAIN END CONTINUOUS WELD
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-31	PIPE, STEEL, BLACK, SCH. 40, PLAIN END, SEAMLESS	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-31	PIPE, STEEL, BLACK, SCH. 40, PLAIN END, SEAMLESS
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-33	PIPE, STEEL, GALVANIZED, THREADED AND COUPLED	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-33	PIPE, STEEL, GALVANIZED, THREADED AND COUPLED
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-55	PIPE, STEEL, BLACK, GAS, WRAPPED	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-55	PIPE, STEEL, BLACK, GAS, WRAPPED
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-80-89	TUBING, STEEL, FLEXIBLE	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-80	Pipe, Steel	658-80-89	TUBING, STEEL, FLEXIBLE
22 10 00; 33 10 00; 33 30 00; 40 20 00	Plumbing Piping; Water Utilities; Sanitary Sewerage Utilities; Liquids Process Piping	658-88-56	TUBING, COPPER, FLEXIBLE	658	PIPE, TUBING, AND ACCESSORIES (NOT FITTINGS)	658-88	Tubing, Brass, Bronze, and Copper (See 570-91 for Structural Tubing)	658-88-56	TUBING, COPPER, FLEXIBLE
22 10 00	Plumbing Piping	815-12	Expansion Joints	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-12	Expansion Joints		
22 10 00	Plumbing Piping	815-12-40	EXPANSION JOINTS, PIPE, PVC	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-12	Expansion Joints	815-12-40	EXPANSION JOINTS, PIPE, PVC
22 10 00; 33 10 00	Plumbing Piping; Water Utilities	830-32	Fiberglass Tanks (Other Than for Gasoline)	830	TANKS (METAL, PLASTIC, WOOD, AND SYNTHETIC MATERIALS): MOBILE, PORTABLE, STATIONARY, AND UNDERGROUND TYPES	830-32	Fiberglass Tanks (Other Than for Gasoline)		
22 10 00; 33 10 00	Plumbing Piping; Water Utilities	830-32-39	TANKS, FIBERGLASS (OTHER THAN FOR GASOLINE)	830	TANKS (METAL, PLASTIC, WOOD, AND SYNTHETIC MATERIALS): MOBILE, PORTABLE, STATIONARY, AND UNDERGROUND TYPES	830-32	Fiberglass Tanks (Other Than for Gasoline)	830-32-39	TANKS, FIBERGLASS (OTHER THAN FOR GASOLINE)
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	941-55	HVAC Systems Maintenance and Repair, Power Plant	941	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	941-55	HVAC Systems Maintenance and Repair, Power Plant		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	031-09	Air Flow Meters	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-09	Air Flow Meters		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	031-55	Hand Tools, Air Conditioning and Heating Service T	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-55	Hand Tools, Air Conditioning and Heating Service Type (Including Leak Detectors)		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	010-30	Bands, Clips, and Wires (For Pipe Insulation)	010	ACOUSTICAL TILE, INSULATING MATERIALS, AND SUPPLIES	010-30	Bands, Clips, and Wires (For Pipe Insulation)		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	010-38	Clips, Pins, etc. (For Duct Insulation)	010	ACOUSTICAL TILE, INSULATING MATERIALS, AND SUPPLIES	010-38	Clips, Pins, etc. (For Duct Insulation)		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	010-75	Paints, Primers, Sealers, etc. (For Insulation)	010	ACOUSTICAL TILE, INSULATING MATERIALS, AND SUPPLIES	010-75	Paints, Primers, Sealers, etc. (For Insulation)		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	031-16	Coatings and Sealants, Duct	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-16	Coatings and Sealants, Duct		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	031-25-84	THERMOSTATS, AIR CONDITIONING AND HEATING	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-25	Controls: Limit Switches, Relays, Thermostats, Gas Valves, etc.	031-25-84	THERMOSTATS, AIR CONDITIONING AND HEATING
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	031-26-41	CONTROLS, HEATING SYSTEM	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-26	Control Systems: Complete (For Automatic Temperature Control)	031-26-41	CONTROLS, HEATING SYSTEM
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-18	Gauges: Altitude, Pressure, Profile, Temperature,	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-18	Gauges: Altitude, Pressure, Profile, Temperature, Liquid Level, etc.		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-22	High Vacuum Controllers, Indicators, and Recorders	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-22	High Vacuum Controllers, Indicators, and Recorders and Accessories: Ionization Gauges, Thermocouple Gauges, etc.		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-33	Liquid Level Controllers, Indicators, and Recorder	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-33	Liquid Level Controllers, Indicators, and Recorders		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-34	Logging Devices, Electronic (Long-Range Data Colle	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-34	Logging Devices, Electronic (Long-Range Data Collection and Recording for Use at a Remote Location)		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-45	Pressure Controllers, Indicators, and Recorders	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-45	Pressure Controllers, Indicators, and Recorders		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-46	Pressure Converters	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-46	Pressure Converters		
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	220-72	Temperature Controllers, Indicators, and Recorders	220	CONTROLLING, INDICATING, MEASURING, MONITORING, AND RECORDING INSTRUMENTS AND SUPPLIES	220-72	Temperature Controllers, Indicators, and Recorders (Digital Thermometers, Pyrometers, etc.), and Accessories: Thermistors, Thermocouples, etc.		
23 10 00	Facility Fuel Systems	720-20	Control Devices for Motor Fuel Dispensing/Security	720	PUMPING EQUIPMENT AND ACCESSORIES	720-20	Control Devices for Motor Fuel Dispensing/Security/Management		
23 10 00	Facility Fuel Systems	720-33	Gasoline and Diesel Fuel Pumps, Service Station Ty	720	PUMPING EQUIPMENT AND ACCESSORIES	720-33	Gasoline, Compressed Natural Gas (CNG), Liquefied Petroleum Gas (LPG), and Diesel Fuel Pumps, Service Station Type		
23 10 00	Facility Fuel Systems	720-33-26	DISPENSING UNIT, FUEL, COMMERCIAL TYPE	720	PUMPING EQUIPMENT AND ACCESSORIES	720-33	Gasoline, Compressed Natural Gas (CNG), Liquefied Petroleum Gas (LPG), and Diesel Fuel Pumps, Service Station Type	720-33-26	DISPENSING UNIT, FUEL, COMMERCIAL TYPE
23 20 00	HVAC Piping and Pumps	815-06	Cocks: Air, Drain, Gauge, Pet, Try, etc.	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-06	Cocks: Air, Drain, Gauge, Pet, Try, etc.		
23 20 00	HVAC Piping and Pumps	815-40	Mechanical Pump and Shaft Seals	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-40	Mechanical Pump and Shaft Seals		
23 20 00	HVAC Piping and Pumps	815-52-74	PACKING, SEAL	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-52	Packing, All Kinds (Except Sheet): Rod, Shaft, Valve Stem, etc.	815-52-74	PACKING, SEAL
23 20 00	HVAC Piping and Pumps	815-58	Pressure Gauges (Not Hospital, Laboratory, and Ref	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-58	Pressure Gauges (Not Hospital, Laboratory, and Refrigeration)		
23 20 00	HVAC Piping and Pumps	815-58-56	GAUGES, PRESSURE, STEAM/HOT WATER	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-58	Pressure Gauges (Not Hospital, Laboratory, and Refrigeration)	815-58-56	GAUGES, PRESSURE, STEAM/HOT WATER
23 20 00	HVAC Piping and Pumps	815-62	Steam Specialties: Air Vent Valves, Main Vent Valv	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-62	Steam Specialties: Air Vent Valves, Main Vent Valves, Radiator Valves, Radiator Traps, etc.		
23 20 00	HVAC Piping and Pumps	815-62-65	VALVES, AIR RELEASE	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-62	Steam Specialties: Air Vent Valves, Main Vent Valves, Radiator Valves, Radiator Traps, etc.	815-62-65	VALVES, AIR RELEASE
23 20 00	HVAC Piping and Pumps	815-62-88	VALVES, AIR VENT	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-62	Steam Specialties: Air Vent Valves, Main Vent Valves, Radiator Valves, Radiator Traps, etc.	815-62-88	VALVES, AIR VENT
23 20 00	HVAC Piping and Pumps	815-65	Steam Traps and Strainers	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-65	Steam Traps and Strainers		
23 20 00	HVAC Piping and Pumps	815-70	Thermometers, Industrial; and Thermometer Wells	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-70	Thermometers, Industrial; and Thermometer Wells		
23 20 00	HVAC Piping and Pumps	815-73	Valves, Directional Control (To Control Pneumatic,	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-73	Valves, Directional Control (To Control Pneumatic, Hydraulic, or Water Cylinders)		
23 20 00	HVAC Piping and Pumps	815-75	Valves, Mixing	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-75	Valves, Mixing		
23 20 00	HVAC Piping and Pumps	815-78	Valves, Pressure Reducing	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-78	Valves, Pressure Reducing		
23 20 00	HVAC Piping and Pumps	815-81	Valves, Relief and Safety	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-81	Valves, Relief and Safety		
23 20 00	HVAC Piping and Pumps	815-84	Valves, Temperature and Pressure Regulating	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-84	Valves, Temperature and Pressure Regulating		
23 20 00	HVAC Piping and Pumps	815-90	Water Gauges, Columns, etc.	815	STEAM AND HOT WATER FITTINGS, ACCESSORIES, AND SUPPLIES	815-90	Water Gauges, Columns, etc.		
23 40 00	HVAC Air Cleaning Devices	031-49	Filter Frames, Metal	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-49	Filter Frames, Metal		
23 40 00	HVAC Air Cleaning Devices	910-04	Air Duct Cleaning Services	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-04	Air Duct Cleaning Services		
23 50 00	Central Heating Equipment	820-08	Boilers, High Pressure	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-08	Boilers, High Pressure		
23 50 00	Central Heating Equipment	820-12	Boilers, Low Pressure	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-12	Boilers, Low Pressure		
23 50 00	Central Heating Equipment	820-16	Boiler Tubes	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-16	Boiler Tubes		
23 50 00	Central Heating Equipment	820-24	Blow-Off Valves	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-24	Blow-Off Valves		
23 50 00	Central Heating Equipment	820-32	Chemical Feed Systems (For Proportioning Pumps See	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-32	Chemical Feed Systems (For Proportioning Pumps See Class 720)		
23 50 00	Central Heating Equipment	820-62	Feedwater Pumps	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-62	Feedwater Pumps		
23 50 00	Central Heating Equipment	820-81-50	SCREENS, WATER INTAKE	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-81	Screens and Strainers, Water Intake, etc.	820-81-50	SCREENS, WATER INTAKE
23 50 00	Central Heating Equipment	820-93	Turbines, Water (Hydraulic) Including Accessories	820	STEAM AND HOT WATER BOILERS AND STEAM HEATING EQUIPMENT	820-93	Turbines, Water (Hydraulic) Including Accessories and Parts		
23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-10	Compressor, Bare Unit (Not Mounted or Powered), 15	025	AIR COMPRESSORS AND ACCESSORIES	025-10	Compressor, Bare Unit (Not Mounted or Powered), 15 HP and less		

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23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-30	Compressor, Base or Tank Mounted, Electric Motor o	025	AIR COMPRESSORS AND ACCESSORIES	025-30	Compressor, Base or Tank Mounted, Electric Motor or Engine Driven, 15 HP and less; and Parts		
23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-40	Compressor, Base or Tank Mounted, Electric Motor o	025	AIR COMPRESSORS AND ACCESSORIES	025-40	Compressor, Base or Tank Mounted, Electric Motor or Engine Driven, Over 15 HP; and Parts		
23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-45	Compressor, Portable, Electric Motor or Engine Dri	025	AIR COMPRESSORS AND ACCESSORIES	025-45	Compressor, Portable, Electric Motor or Engine Driven, 5 HP and less; and Parts		
23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-50	Compressor, Portable, Electric Motor or Engine Dri	025	AIR COMPRESSORS AND ACCESSORIES	025-50	Compressor, Portable, Electric Motor or Engine Driven, over 25 CFM at 100 PSI; and Parts		
23 60 00; 41 60 00	Central Cooling Equipment; Mobile Plant Equipment	025-85	Motors, Air Compressor	025	AIR COMPRESSORS AND ACCESSORIES	025-85	Motors, Air Compressor		
23 60 00	Central Cooling Equipment	031-73	Pumps, Refrigerant Circulating	031	AIR CONDITIONING, HEATING, AND VENTILATING EQUIPMENT, PARTS AND ACCESSORIES (SEE CLASS 740 ALSO)	031-73	Pumps, Refrigerant Circulating		
25 30 00	Integrated Automation Instrumentation and Terminal Devices	204-13	Cables: Printer, Disk, Network, etc.	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-13	Cables: Printer, Disk, Network, etc.		
25 30 00	Integrated Automation Instrumentation and Terminal Devices	204-24	Controllers, Programmable: Industrial Control Devi	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-24	Controllers, Programmable: Industrial Control Devices, Robots, etc.		
25 30 00	Integrated Automation Instrumentation and Terminal Devices	207-67-85	UNINTERRUPTIBLE POWER SUPPLY, COMPUTER	207	COMPUTER ACCESSORIES AND SUPPLIES	207-67	Power Supplies: Surge Protectors, Uninterruptible Power Supplies, Switches, etc.	207-67-85	UNINTERRUPTIBLE POWER SUPPLY, COMPUTER
25 30 00	Integrated Automation Instrumentation and Terminal Devices	209-91	Utilities: Back-up, Batch File, Menus, Network Mgmt	209	COMPUTER SOFTWARE FOR MINI AND MAINFRAME COMPUTERS (PREPROGRAMMED)	209-91	Utilities: Back-up, Batch File, Menus, Network Management, Operating System, Recovery, Screen, Security, Virus Protection, etc.		
26 00 00	Electrical	060-37-22	BOX, JUNCTION	060	AUTOMOTIVE AND TRAILER EQUIPMENT AND PARTS	060-37	Electrical Parts (Not Ignition) (Not Otherwise Classified)	060-37-22	BOXES, JUNCTION
26 00 00	Electrical	285-30	Dielectric Tools, Tool Handles, Hydraulic Hose and	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-30	Dielectric Tools, Tool Handles, Hydraulic Hose and Fittings (High ANSI Rated)		
26 00 00	Electrical	285-60	Locators, Cable	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-60	Locators, Cable		
26 00 00	Electrical	285-68	Motors and Parts, Fractional H.P. Electric	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-68	Motors and Parts, Fractional H.P. Electric (Incl. Remanufactured)		
26 00 00	Electrical	285-70	Motors and Parts, Integral H.P., Single Phase, Ele	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-70	Motors and Parts, Integral H.P., Single Phase, Electric (Incl. Remanufactured)		
26 00 00	Electrical	285-71	Motors and Parts, Integral H.P., Three Phase, Elec	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-71	Motors and Parts, Integral H.P., Three Phase, Electric (Incl. Remanufactured)		
26 00 00	Electrical	285-75	Repair Kits (For Contactors)	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-75	Repair Kits (For Contactors)		
26 00 00	Electrical	285-78	Structural Supports and Racks, Mechanical Type: An	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-78	Structural Supports and Racks, Mechanical Type: Angles, Braces, Brackets, Channels, Clips, Fittings, Spring-Nuts, etc.		
26 00 00	Electrical	285-79	Switches, Miscellaneous	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-79	Switches, Parts and Accessories (Miscellaneous)		
26 00 00	Electrical	285-81	Tools, Electricians' and Lineman's (Including Cabl	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-81	Tools and Accessories, Electricians' and Lineman's (Including Cable Fault Locators, Cable Pullers, Press Boosters and Heads, Hotsticks, Testing Equip. Wire Crimping Tools, etc.) (See 285-30 for Dielectric Tools)		
26 00 00	Electrical	285-89	Unilets	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-89	Unilets		
26 00 00	Electrical	287-96-20	CABLE, COAXIAL	287	ELECTRONIC EQUIPMENT, COMPONENTS, PARTS, AND ACCESSORIES (SEE CLASS 730 FOR TESTING OR ANALYZING TYPE)	287-96	Wire and Cable, Electronic: Audio, Coaxial, Hook-Up, Lead-In, etc.	287-96-20	CABLE, COAXIAL
26 00 00	Electrical	287-96-21	CABLE, COPPER POWER, THERMOSETTING, POLYETHYLENE I	287	ELECTRONIC EQUIPMENT, COMPONENTS, PARTS, AND ACCESSORIES (SEE CLASS 730 FOR TESTING OR ANALYZING TYPE)	287-96	Wire and Cable, Electronic: Audio, Coaxial, Hook-Up, Lead-In, etc.	287-96-21	CABLE, COPPER POWER, THERMOSETTING, POLYETHYLENE INSULATED, PVC JACKETED, CROSSLINKED
26 00 00	Electrical	287-96-88	WIRE, GROUND	287	ELECTRONIC EQUIPMENT, COMPONENTS, PARTS, AND ACCESSORIES (SEE CLASS 730 FOR TESTING OR ANALYZING TYPE)	287-96	Wire and Cable, Electronic: Audio, Coaxial, Hook-Up, Lead-In, etc.	287-96-88	WIRE, GROUND
26 00 00	Electrical	936-25	Electrical Equipment (Except Cable and Wires, and	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-25	Electrical Equipment (Except Cable and Wires, and Lighting Fixtures) Maintenance and Repair		
26 00 00	Electrical	285-18	Conduit and Fittings, Cast Iron and Malleable Iron	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-18	Conduit and Fittings, Cast Iron and Malleable Iron		
26 00 00	Electrical	285-18-05	CONDUIT, GALVANIZED IRON, INTERMEDIATE METAL	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-18	Conduit and Fittings, Cast Iron and Malleable Iron	285-18-05	CONDUIT, GALVANIZED IRON, INTERMEDIATE METAL
26 00 00	Electrical	285-19	Conduit and Fittings, Plastic/Pvc	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-19	Conduit and Fittings, Plastic/PVC		
26 00 00	Electrical	285-19-07	BOXES, CONDUIT AND JUNCTION, PVC	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-19	Conduit and Fittings, Plastic/PVC	285-19-07	BOXES: CONDUIT, JUNCTION, AND DEVICE, PVC
26 00 00	Electrical	285-19-14	CONDUIT, PVC, SCH. 40	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-19	Conduit and Fittings, Plastic/PVC	285-19-14	CONDUIT, PVC, SCH. 40
26 00 00	Electrical	285-23	Conduit Fittings, Steel: Boxes, Bushings, Clamps,	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-23	Conduit Fittings, Steel: Boxes, Bushings, Clamps, Connectors, Covers, Locknuts, Straps, etc.		
26 00 00	Electrical	285-23-09	BOXES, JUNCTION, STEEL	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-23	Conduit Fittings, Steel: Boxes, Bushings, Clamps, Connectors, Covers, Locknuts, Straps, etc.	285-23-09	BOXES, JUNCTION, STEEL
26 00 00	Electrical	285-26	Conduit, Steel	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-26	Conduit, Steel		
26 00 00	Electrical	285-26-08	CONDUIT, STEEL, ELECTRICAL METALLIC TUBING (EMT),	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-26	Conduit, Steel	285-26-08	CONDUIT, STEEL, ELECTRICAL METALLIC TUBING (EMT), THINWALL
26 00 00	Electrical	285-26-14	CONDUIT, STEEL, GALVANIZED, RIGID, ZINC COATED, HO	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-26	Conduit, Steel	285-26-14	CONDUIT, STEEL, GALVANIZED, RIGID, ZINC COATED, HOT DIPPED, THREADED BOTH ENDS, W/ONE COUPLING
26 00 00	Electrical	285-42-15	INSULATORS, ELECTRICAL	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-42	Insulation Materials and Insulators: Compounds, Varnish, etc.	285-42-15	INSULATORS, ELECTRICAL
26 00 00	Electrical	287-60	Repair Equipment, Electronic: Cleaning, Desolderin	287	ELECTRONIC EQUIPMENT, COMPONENTS, PARTS, AND ACCESSORIES (SEE CLASS 730 FOR TESTING OR ANALYZING TYPE)	287-60	Repair Equipment, Electronic: Cleaning, Desoldering, Soldering, etc.		
26 00 00	Electrical	287-66	Replacement and Component Parts: Capacitors, Choke	287	ELECTRONIC EQUIPMENT, COMPONENTS, PARTS, AND ACCESSORIES (SEE CLASS 730 FOR TESTING OR ANALYZING TYPE)	287-66	Replacement and Component Parts: Capacitors, Chokes, Coils, Panel Meters, Potentiometers, Relays, Resistors, Solenoids, Transistors, Transformers, etc.		
26 30 00	Facility Electrical Power Generating and Storage Equipment	690-31	Controls, Integrated System	690	POWER GENERATION EQUIPMENT, ACCESSORIES, AND SUPPLIES	690-31	Controls, Integrated System		
26 50 00	Lighting	285-80-70	POLE ACCESSORIES AND PARTS, STREET LIGHT	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-80	Street Light Poles and Standards	285-80-70	POLE ACCESSORIES AND PARTS, STREET LIGHT
26 50 00	Lighting	912-32	Construction, Street Lighting	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-32	Construction, Street Lighting		
26 50 00	Lighting	912-32-43	FOUNDATION, LIGHT POLE. THIS ITEM SHALL CONSIST OF	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-32	Construction, Street Lighting	912-32-43	FOUNDATION, LIGHT POLE. THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING LIGHT POLE FOUNDATIONS IN THE SIZE AND TYPE SPECIFIED BY THE ENGINEER.
26 50 00	Lighting	912-32-56	POLES, LIGHT. THIS ITEM SHALL CONSIST OF FURNISHIN	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-32	Construction, Street Lighting	912-32-56	POLES, LIGHT. THIS ITEM SHALL CONSIST OF FURNISHING, TRANSPORTING, AND INSTALLING STREET LIGHT POLES IN THE SIZE AND TYPE SPECIFIED BY THE ENGINEER.
26 50 00	Lighting	988-54	Lighting Services for Parks, Athletic Fields, Park	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-54	Lighting Services for Parks, Athletic Fields, Parking Lots, etc.		
27 00 00	Communications	725-12	Antennas and Accessories (Radio Only): Brackets, M	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-12	Antennas and Accessories (Radio Only): Brackets, Masts, Mounts, Rotators, Standoffs, etc. (Incl. Aircraft, Vehicle and Marine Types) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 726-16)		
27 00 00	Communications	968-79	Telephone (Utility, Light) Pole Installation, and	968	PUBLIC WORKS AND RELATED SERVICES	968-79	Telephone (Utility, Light) Pole Installation, and Relocation Service		
27 10 00	Structured Cabling	280-70-38	CABLE, TELEPHONE COMMUNICATIONS, INSIDE, SOLID ANN	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-70	Telephone Cables and Wires, Single and Multiconductor, Clad Steel and Copper	280-70-38	CABLE, TELEPHONE COMMUNICATIONS, INSIDE, SOLID ANNEALED COPPER CONDUCTORS
27 10 00	Structured Cabling	725-23	Fiber Optics Cables, Interconnecting Components, a	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-23	Fiber Optics Cables, Interconnecting Components, and Accessories (Including Wiring Systems Tools and Supplies) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 838-29)		
27 20 00	Data Communications	204-20	Communication Control Units: Concentrators, Multip	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-20	Communication Control Units: Concentrators, Multiplexers, Couplers, Scan Converters, etc.		
27 20 00	Data Communications	690-37	Data Acquisition Systems	690	POWER GENERATION EQUIPMENT, ACCESSORIES, AND SUPPLIES	690-37	Data Acquisition Systems		
27 20 00	Data Communications	725-15	Communications Systems, Integrated (Includes Telep	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-15	Communications Systems, Integrated (Includes Telephone, Clock, Intercom, etc.) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 838-35)		
27 30 00	Voice Communications	725-55	Telephone Equipment and Piece Parts (Not Lines or	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-55	Telephone Equipment and Piece Parts (Not Lines or Otherwise Listed) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 839-85)		
27 30 00	Voice Communications	725-56	Telephone Systems (2-60 Stations), Electronic Key	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-56	Telephone Systems (2-60 Stations), Electronic Key and 1A2 (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 839-87)		

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CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
27 30 00	Voice Communications	725-59	Telecommunication Parts and Accessories (Not Other	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-59	Telecommunication Parts and Accessories (Not Otherwise Classified) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 838-85))		
27 40 00; 28 20 00	Audio-Video Communications; Electronic Surveillance	840-70-29	CAMERAS, VIDEO	840	TELEVISION EQUIPMENT AND ACCESSORIES	840-70	Video Camera-Recorders, Accessories and Parts (Portable Type)	840-70-29	CAMERA, VIDEO, BRAND LISTED OR EQUAL
27 50 00	Distributed Communications and Monitoring Systems	725-27-62	RADIOS, MOBILE, HIGH FREQUENCY, INCLUDING EXTENDED	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-27	High Frequency Radio (SSB), Mobile and Base (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 726-57)	725-27-62	RADIOS, MOBILE, HIGH FREQUENCY, INCLUDING EXTENDED WARRANTY, PROGRAMMING AND MAINTENANCE
27 50 00	Distributed Communications and Monitoring Systems	725-45	Pagers, Radio	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-45	Pagers, Radio (Including Parts and Accessories) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 726-70)		
27 50 00	Distributed Communications and Monitoring Systems	725-74-61	RADIOS, TWO-WAY, PORTABLE PACKAGE	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-74	Two-Way Radio, Portable, Including Vehicle Radio Relay Systems (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 726-88)	725-74-61	RADIOS, TWO-WAY, PORTABLE PACKAGE
27 50 00	Distributed Communications and Monitoring Systems	725-74-62	RADIOS, TWO-WAY, PORTABLE PACKAGE, INCLUDING EXTEN	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-74	Two-Way Radio, Portable, Including Vehicle Radio Relay Systems (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 726-88)	725-74-62	RADIOS, TWO-WAY, PORTABLE PACKAGE, INCLUDING EXTENDED WARANTY, PROGRAMMING AND MAINTENANCE
27 50 00	Distributed Communications and Monitoring Systems	913-16	Construction, Communication Equipment (Incl Antenna Towers)	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-16	Construction, Communication Equipment (Includes Antenna Towers)		
27 50 00	Distributed Communications and Monitoring Systems	730-06	Calibrators: Resistance, Power, Voltage, Time, etc	730	RADIO COMMUNICATION AND TELECOMMUNICATION TESTING, MEASURING, AND ANALYZING EQUIPMENT, ACCESSORIES AND SUPPLIES	730-06	Calibrators: Resistance, Power, Voltage, Time, etc.		
31 00 00	Earthwork	968-75-56	PLACEMENT, TOP SOIL. THIS WORK SHALL CONSIST OF FU	968	PUBLIC WORKS AND RELATED SERVICES	968-75	Streetscaping Services	968-75-56	PLACEMENT, TOP SOIL. THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTING, PLACING, SPREADING, COMPACTING IF NECESSARY AND FINISHING TOP SOIL.
31 10 00	Site Clearing	962-39	Hauling Services	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-39	Hauling Services		
31 10 00	Site Clearing	988-88	Tree Trimming and Pruning Services	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-88	Tree Trimming and Pruning Services		
31 10 00	Site Clearing	988-89	Weed and Vegetation Control	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-89	Weed and Vegetation Control (Including Trees, Shrubs and Aquatic Weed Control)		
31 20 00	Earth Moving	085-85-27	BLANKETS, EROSION CONTROL	085	BAGS, BAGGING, TIES, AND EROSION SHEETING, ETC.	085-85	Soil Erosion Sheeting Material (To Include Silt Fencing): Asphalt, Biodegradable Paper, Burlap, Excelsior, Jute, Straw, etc.	085-85-27	BLANKETS, EROSION CONTROL
31 20 00	Earth Moving	085-85-42	FABRIC, EROSION CONTROL	085	BAGS, BAGGING, TIES, AND EROSION SHEETING, ETC.	085-85	Soil Erosion Sheeting Material (To Include Silt Fencing): Asphalt, Biodegradable Paper, Burlap, Excelsior, Jute, Straw, etc.	085-85-42	FABRIC, EROSION CONTROL
31 20 00	Earth Moving	085-85-44	FASTENERS, MAT, EROSION CONTROL	085	BAGS, BAGGING, TIES, AND EROSION SHEETING, ETC.	085-85	Soil Erosion Sheeting Material (To Include Silt Fencing): Asphalt, Biodegradable Paper, Burlap, Excelsior, Jute, Straw, etc.	085-85-44	FASTENERS, MAT, EROSION CONTROL
31 20 00	Earth Moving	085-85-45	FENCING AND ACCESSORIES, SILT	085	BAGS, BAGGING, TIES, AND EROSION SHEETING, ETC.	085-85	Soil Erosion Sheeting Material (To Include Silt Fencing): Asphalt, Biodegradable Paper, Burlap, Excelsior, Jute, Straw, etc.	085-85-45	FENCING AND ACCESSORIES, SILT
31 20 00	Earth Moving	988-32	Grading (Of Parking Lots, etc. - Not Road Building	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-32	Grading (Of Parking Lots, etc. - Not Road Building)		
31 40 00	Shoring and Underpinning	545-80	Shield, Trench (Worker Protection)	545	MACHINERY AND HARDWARE, INDUSTRIAL	545-80	Shield, Trench (Worker Protection)		
32 00 00	Exterior Improvements	912-31	CONSTRUCTION, REMODEL & ALTERA	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-31	Construction, Statues and Monuments		
32 10 00	Bases, Ballasts, and Paving	745-08-41	EMULSIONS, ASPHALT	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-08	Asphalt, Emulsified	745-08-41	EMULSIONS, ASPHALT, IN ACCORDANCE WITH ITEM 300 OF THE TXDOT 1993 (1995 METRIC) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES
32 10 00	Bases, Ballasts, and Paving	745-12	Asphalt, Oil	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-12	Asphalt, Oil		
32 10 00	Bases, Ballasts, and Paving	745-14	Asphaltic Concrete, Cold Laid	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-14	Asphaltic Concrete, Cold Laid		
32 10 00	Bases, Ballasts, and Paving	745-14-12	ASPHALTIC BASE, HOT MIX, COLD LAID	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-14	Asphaltic Concrete, Cold Laid	745-14-12	ASPHALTIC STABILIZED BASE (PLANT MIX), HOT MIX, COLD LAID, IN ACCORDANCE WITH ITEM 345 OF THE 1993 (1995 METRIC) TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES
32 10 00	Bases, Ballasts, and Paving	745-14-14	ASPHALTIC CONCRETE PAVEMENT, HOT MIX - COLD LAID,	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-14	Asphaltic Concrete, Cold Laid	745-14-14	ASPHALTIC CONCRETE PAVEMENT, HOT MIX - COLD LAID, IN ACCORDANCE WITH ITEM 334 OF THE TXDOT 1993 (1995 METRIC) STANDARD SPECS. FOR THE CONSTRUCTION OF HIGHWAYS, STREETS & BRIDGES
32 10 00	Bases, Ballasts, and Paving	745-21	Asphaltic Concrete, Hot Laid Including Bituminous	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-21	Asphaltic Concrete, Hot Laid Including Bituminous Materials		
32 10 00	Bases, Ballasts, and Paving	745-21-14	ASPHALTIC CONCRETE, HOT MIX, IN ACCORDANCE WITH IT	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-21	Asphaltic Concrete, Hot Laid Including Bituminous Materials	745-21-14	ASPHALTIC CONCRETE, HOT MIX, IN ACCORDANCE WITH ITEM 340 OF THE TXDOT 1993 STANDARD SPECS. FOR THE CONSTRUCTION OF HIGHWAYS, STREETS & BRIDGES
32 10 00	Bases, Ballasts, and Paving	745-49	Expansion Joint Material: Asphalt, Rubber, etc.	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-49	Expansion Joint Material: Asphalt, Rubber, etc.		
32 10 00	Bases, Ballasts, and Paving	745-49-39	EXPANSION JOINTS, PREFORMED	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-49	Expansion Joint Material: Asphalt, Rubber, etc.	745-49-39	EXPANSION JOINTS, PREFORMED
32 10 00	Bases, Ballasts, and Paving	745-77-47	LIMESTONE ROCK ASPHALT PAVEMENT (CLASS A), COLD MI	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-77	Rock Asphalt	745-77-47	LIMESTONE ROCK ASPHALT PAVEMENT (CLASS A), COLD MIX, COLD LAID, IN ACCORDANCE WITH ITEM 330 OF THE TXDOT 1993 (1995 METRIC) STANDARD SPECS. FOR THE CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES
32 10 00	Bases, Ballasts, and Paving	745-80-73	SEALANT, ASPHALT, CRACK AND JOINT	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-80	Rubber Asphalt Crack Sealing Compound	745-80-73	SEALANT, ASPHALT, CRACK AND JOINT
32 10 00	Bases, Ballasts, and Paving	745-84	Slurry Seal	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-84	Slurry Seal		
32 10 00	Bases, Ballasts, and Paving	750-56	Lightweight Aggregate, All Types	750	ROAD AND HIGHWAY BUILDING MATERIALS (NOT ASPHALTIC)	750-56	Lightweight Aggregate, All Types		
32 10 00	Bases, Ballasts, and Paving	750-84	Shell	750	ROAD AND HIGHWAY BUILDING MATERIALS (NOT ASPHALTIC)	750-84	Shell		
32 10 00	Bases, Ballasts, and Paving	913-96-28	CRACK CONTROL TREATMENT, AREA REFLECTIVE.	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-96	Paving/Resurfacing, Street (Major and Residential)	913-96-28	CRACK CONTROL TREATMENT, AREA REFLECTIVE.
32 10 00	Bases, Ballasts, and Paving	913-94	Paving/Resurfacing, Alley and Parking Lot	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-94	Paving/Resurfacing, Alley and Parking Lot		
32 10 00	Bases, Ballasts, and Paving	913-95	Paving/Resurfacing, Highway and Road	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-95	Paving/Resurfacing, Highway and Road		
32 30 00	Site Improvements	210-11-61	BLOCKS, CONCRETE, RETAINING WALL	210	CONCRETE AND METAL PRODUCTS, CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES	210-11	Blocks, Hollow and Solid, Normal Weight	210-11-61	BLOCKS, CONCRETE, RETAINING WALL
32 90 00	Planting	595-10	Bedding Plants and Cuttings	595	NURSERY (PLANTS) STOCK, EQUIPMENT, AND SUPPLIES	595-10	Bedding Plants and Cuttings		
32 90 00	Planting	595-10-15	PLANTS, BEDDING, BLOOMING	595	NURSERY (PLANTS) STOCK, EQUIPMENT, AND SUPPLIES	595-10	Bedding Plants and Cuttings	595-10-15	PLANTS, BEDDING, BLOOMING
32 90 00	Planting	595-26	Edging, Lawn	595	NURSERY (PLANTS) STOCK, EQUIPMENT, AND SUPPLIES	595-26	Edging, Lawn		
32 90 00	Planting	790-20	Grass Seed	790	SEED, SOD, SOIL, AND INOCULANTS	790-20	Grass Seeds		
32 90 00	Planting	790-20-37	GRASS SEED	790	SEED, SOD, SOIL, AND INOCULANTS	790-20	Grass Seeds	790-20-37	GRASS SEED
32 90 00	Planting	918-73	Landscaping Consulting	918	CONSULTING SERVICES	918-73	Landscaping Consulting		
33 10 00	Water Utilities	890-40	Meter Boxes, Meter Vaults, and Valve Boxes (See 21	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-40	Meter Boxes, Meter Vaults, and Valve Boxes (See 210-45 for Concrete Type)		
33 10 00	Water Utilities	913-60-38	HAND HOLES, ADJUSTING OF EXISTING	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-38	HAND HOLES, ADJUSTING OF EXISTING
33 10 00	Water Utilities	913-60-55	METER VAULTS, RECONSTRUCTION OF. THIS WORK SHALL C	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-55	METER VAULTS, RECONSTRUCTION OF. THIS WORK SHALL CONSIST OF THE RECONSTRUCTION OF EXISTING METER VAULTS IN A MANNER AS PRESCRIBED BY THE ENGINEER.
33 10 00	Water Utilities	913-60-86	VALVE VAULTS AND BOXES. ADJUSTMENT OF. THIS WORK S	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-86	VALVE VAULTS AND BOXES. ADJUSTMENT OF. THIS WORK SHALL INCLUDE EXISTING VALVE VAULTS AND BOXES WHICH ARE TO BE ADJUSTED TO GRADE WHERE 2 FT. OR LESS OF MASONRY WILL BE EITHER ADDED, REMOVED OR REBUILT.
33 10 00	Water Utilities	913-60-90	VAULT, WATER METER. THIS WORK SHALL CONSIST OF THE	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-90	VAULT, WATER METER. THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF WATER METER VAULTS AS SPECIFIED.
33 10 00	Water Utilities	913-60-94	WATER MAINS, CONSTRUCTING	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-94	WATER MAINS. THIS WORK SHALL CONSIST OF CONSTRUCTING WATER MAINS OF THE REQUIRED MATERIAL AND DIAMETER. THE CONSTRUCTION SHALL INCLUDE ALL PIPE FITTINGS, JOINT MATERIALS, HYDROSTATIC TESTS, DISINFECTING OF THE WATER MAIN AND ALL EXCAVATION EXCEPT ROCK.

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CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
33 10 00	Water Utilities	913-92	Maintenance and Repair, Water System, Main and Ser	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-92	Maintenance and Repair, Water System, Main and Service Line		
33 10 00	Water Utilities	968-58	Meter Reading Services	968	PUBLIC WORKS AND RELATED SERVICES	968-58	Meter Reading Services		
33 20 00	Wells	962-96	Well Services (Including Oil, Gas, and Water): Dri	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-96	Well Services (Including Oil, Gas, and Water): Drilling, Plugging, Consulting, Maintenance, Repair, etc.		
33 30 00	Sanitary Sewerage Utilities	913-81-58	PUMPING SERVICES, SEWER	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-81	Maintenance and Repair, Sewer and Storm Drain (Including Removal)	913-81-58	PUMPING SERVICES, SEWER
33 30 00; 33 40 00	Sanitary Sewerage Utilities; Storm Drainage Utilities	913-60-34	FILLING EXISTING MANHOLES, CATCH BASINS AND INLETS	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-34	FILLING EXISTING MANHOLES, CATCH BASINS AND INLETS. THIS WORK SHALL CONSIST OF ALL WORK NECESSARY TO ABANDON EXISTING MANHOLES, CATCH BASINS AND INLETS.
33 30 00; 33 40 00	Sanitary Sewerage Utilities; Storm Drainage Utilities	913-60-47	MANHOLES, ADJUSTMENT OF. THIS WORK SHALL INCLUDE E	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-47	MANHOLES, ADJUSTMENT AND REPAIR OF. THIS WORK SHALL INCLUDE EXISTING MANHOLES WHICH ARE TO BE ADJUSTED TO GRADE WHERE 2 FT. OR LESS OF MASONRY WILL BE EITHER ADDED, REMOVED OR REBUILT.
33 30 00; 33 40 00	Sanitary Sewerage Utilities; Storm Drainage Utilities	913-60-49	MANHOLES, DROP TYPE, CONSTRUCTION OF. THIS WORK SH	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-49	MANHOLES, DROP TYPE, CONSTRUCTION OF. THIS WORK SHALL CONSIST OF CONSTRUCTING DROP TYPE MANHOLES INCLUDING EXCAVATION AND BACKFILL.
33 30 00; 33 40 00	Sanitary Sewerage Utilities; Storm Drainage Utilities	913-60-52	MANHOLES, RECONSTRUCTION OF. THIS WORK SHALL INCLU	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-52	MANHOLES, RECONSTRUCTION OF. THIS WORK SHALL INCLUDE THE RECONSTRUCTION OF EXISTING MANHOLES WHERE MORE THAN 2 FT. OF MASONRY WILL BE EITHER ADDED, REMOVED OR REBUILT.
33 40 00	Storm Drainage Utilities	400-35-41	CASTINGS, CATCH BASIN INLET-CURB INLET-MANHOLE FRA	400	FOUNDRY CASTINGS, EQUIPMENT, AND SUPPLIES	400-35	Castings, Gray Iron	400-35-41	CASTINGS, CATCH BASIN INLET-CURB INLET-MANHOLE FRAMES, GRAY IRON, IN ACCORDANCE WITH CITY OF INDIANAPOLIS SPECS.
33 40 00	Storm Drainage Utilities	400-35-48	CASTINGS, CURB INLET BACK, GRAY IRON, IN ACCORDANC	400	FOUNDRY CASTINGS, EQUIPMENT, AND SUPPLIES	400-35	Castings, Gray Iron	400-35-48	CASTINGS, CURB INLET BACK, GRAY IRON, IN ACCORDANCE WITH CITY OF INDIANAPOLIS SPECS.
33 40 00	Storm Drainage Utilities	913-39	Construction, Pipe Culvert	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-39	Construction, Pipe Culvert		
33 40 00	Storm Drainage Utilities	913-60-31	CATCH BASINS, CONSTRUCTION OF. THIS WORK SHALL CON	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-31	CATCH BASINS, CONSTRUCTION OF. THIS WORK SHALL CONSIST OF CONSTRUCTING CATCH BASINS INCLUDING EXCAVATION AND BACKFILL.
33 40 00	Storm Drainage Utilities	913-60-35	FRAMES, GRATES, AND LIDS. THIS WORK SHALL CONSIST	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-35	FRAMES, GRATES, AND LIDS. THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTING AND INSTALLING FRAMES, INCLUDING GRATES OR LIDS, OR GRATES WHERE SUCH ITEMS ARE CONSTRUCTION OF THE MORTAR BED.
33 40 00	Storm Drainage Utilities	913-60-36	FRAMES, GRATES AND LIDS TO BE ADJUSTED. THIS WORK	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-60	Construction, Water System/Plants, Main and Service Line	913-60-36	FRAMES, MANHOLE (CAST IRON). THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTINGAND INSTALLATION OF A CAST IRON MANHOLE FRAME AS SPECIFIED.
33 40 00	Storm Drainage Utilities	913-81	Maintenance and Repair, Sewer and Storm Drain (Inc	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-81	Maintenance and Repair, Sewer and Storm Drain (Including Removal)		
33 40 00	Storm Drainage Utilities	968-73	Storm Drain Cleaning, Repair, and Sludge Removal S	968	PUBLIC WORKS AND RELATED SERVICES	968-73	Storm Drain Cleaning, Repair, and Sludge Removal Services		
33 70 00	Electrical Utilities	912-21	Construction, Energy Related (All Types)	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-21	Construction, Energy Related (All Types)		
33 70 00	Electrical Utilities	912-30	Construction, Power Plant	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-30	Construction, Power Plant		
33 70 00	Electrical Utilities	912-56	Maintenance and Repair, Power Plant	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-56	Maintenance and Repair, Power Plant		
33 70 00	Electrical Utilities	941-73	Power Plant Equipment Maintenance and Repair (Not	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-73	Power Plant Equipment Maintenance and Repair (Not Otherwise Listed)		
33 70 00	Electrical Utilities	941-88	Turbine Maintenance and Repair, Steam	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-88	Turbine Maintenance and Repair, Steam		
34 10 00	Guideways/Railways	940-65	Railroad Construction at Street Intersection (Incl	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-65	Railroad Construction at Street Intersection (Including Maintenance and Repair)		
34 10 00	Guideways/Railways	940-65-66	RAILROAD CROSSING AND TRACK REMOVAL AND/OR TRACK R	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-65	Railroad Construction at Street Intersection (Including Maintenance and Repair)	940-65-66	RAILROAD CROSSING AND TRACK REMOVAL AND/OR TRACK REPLACEMENT.
34 10 00	Guideways/Railways	940-65-83	TIES, RAILROAD. THIS ITEM SHALL CONSIST OF FURNISH	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-65	Railroad Construction at Street Intersection (Including Maintenance and Repair)	940-65-83	TIES, RAILROAD. THIS ITEM SHALL CONSIST OF FURNISHING AND PLACING RAILROAD TIES AS SPECIFIED.
34 10 00	Guideways/Railways	940-75	Signal System Installation	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-75	Signal System Installation		
34 40 00	Transportation Signaling and Control Equipment	550-08-54	PARTS AND ACCESSORIES, DELINEATOR	550	MARKERS, PLAQUES AND TRAFFIC CONTROL DEVICES	550-08	Buttons, Delineators, Reflectors, etc., ReflectORIZED	550-08-54	PARTS AND ACCESSORIES, DELINEATORS
34 40 00	Transportation Signaling and Control Equipment	550-34-55	PAVEMENT MARKERS, PLASTIC	550	MARKERS, PLAQUES AND TRAFFIC CONTROL DEVICES	550-34	Markers, Traffic, Plastic and Rubber	550-34-55	MARKERS, PAVEMENT, PLASTIC
34 40 00	Transportation Signaling and Control Equipment	570-28-35	GUARDRAILS, BRIDGE	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-28	Guard Rails and Accessories: Bolts, Posts, Terminal Ends, Washers, etc. (See 540-73 for Wood Posts)	570-28-35	GUARD RAILS, BRIDGE
34 40 00	Transportation Signaling and Control Equipment	570-28-44	GUARDRAILS, STEEL, STRAIGHT	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-28	Guard Rails and Accessories: Bolts, Posts, Terminal Ends, Washers, etc. (See 540-73 for Wood Posts)	570-28-44	GUARD RAILS, STEEL, STRAIGHT
34 40 00	Transportation Signaling and Control Equipment	570-28-57	POSTS, BRIDGE RAIL	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-28	Guard Rails and Accessories: Bolts, Posts, Terminal Ends, Washers, etc. (See 540-73 for Wood Posts)	570-28-57	POSTS, BRIDGE RAIL
34 40 00	Transportation Signaling and Control Equipment	570-28-58	POSTS, GUARDRAIL, STEEL	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-28	Guard Rails and Accessories: Bolts, Posts, Terminal Ends, Washers, etc. (See 540-73 for Wood Posts)	570-28-58	POSTS, GUARD RAIL, STEEL
34 40 00	Transportation Signaling and Control Equipment	570-28-66	RAIL PARTS AND ACCESS., BRIDGE	570	METALS: BARS, PLATES, RODS, SHEETS, STRIPS, STRUCTURAL SHAPES, TUBING, AND FABRICATED ITEMS	570-28	Guard Rails and Accessories: Bolts, Posts, Terminal Ends, Washers, etc. (See 540-73 for Wood Posts)	570-28-66	RAIL PARTS AND ACCESS., BRIDGE
34 40 00	Transportation Signaling and Control Equipment	936-74	Signs, Message Centers, Scoreboards, etc. (Includi	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-74	Signs, Message Centers, Scoreboards, etc. (Including Sign Making Equipment), Maintenance and Repair (See 968-81 for Traffic Sign Maintenance)		
34 40 00	Transportation Signaling and Control Equipment	936-85	Traffic Counting Devices, Maintenance and Repair	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-85	Traffic Counting Devices, Maintenance and Repair		
34 40 00	Transportation Signaling and Control Equipment	936-86	Traffic Control Devices, Maintenance and Repair	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-86	Traffic Control Devices, Maintenance and Repair		
34 40 00	Transportation Signaling and Control Equipment	968-48	Inspection Services, Electrical Instrumentation & Control	968	PUBLIC WORKS AND RELATED SERVICES	968-48	Inspection Services, Electrical Instrumentation and Control		
34 40 00	Transportation Signaling and Control Equipment	968-80-66	REMOVE SIGN SUPPORTS.	968	PUBLIC WORKS AND RELATED SERVICES	968-80	Traffic Sign Installation and/or Removal Services	968-80-66	REMOVE SIGN SUPPORTS
34 40 00	Transportation Signaling and Control Equipment	968-80-74	SIGN STRUCTURES, OVERHEAD. THIS ITEM SHALL CONSIST	968	PUBLIC WORKS AND RELATED SERVICES	968-80	Traffic Sign Installation and/or Removal Services	968-80-74	SIGN STRUCTURES, OVERHEAD. THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING OVERHEAD SIGN STRUCTURES IN THE SIZE AND TYPE SPECIFIED.
34 40 00	Transportation Signaling and Control Equipment	968-81	Traffic Sign Maintenance and Repair	968	PUBLIC WORKS AND RELATED SERVICES	968-81	Traffic Sign Maintenance and Repair		
34 40 00	Transportation Signaling and Control Equipment	968-82	Traffic Signal Installation	968	PUBLIC WORKS AND RELATED SERVICES	968-82	Traffic Signal Installation		
34 40 00	Transportation Signaling and Control Equipment	968-82-28	CABLE, ELECTRIC. THIS ITEM SHALL CONSIST OF FURNIS	968	PUBLIC WORKS AND RELATED SERVICES	968-82	Traffic Signal Installation	968-82-28	CABLE, ELECTRIC. THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ELECTRIC CABLE AS REQUIRED AND SPECIFIED.
34 40 00	Transportation Signaling and Control Equipment	968-82-31	CONDUIT, PVC. THIS ITEM SHALL CONSIST OF FURNISHIN	968	PUBLIC WORKS AND RELATED SERVICES	968-82	Traffic Signal Installation	968-82-31	CONDUIT, PVC. THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PVC CONDUIT FOR TRAFFIC SIGNALS AS REQUIRED AND SPECIFIED.
34 40 00	Transportation Signaling and Control Equipment	968-82-34	DRILLING EXISTING FOUNDATIONS AND HAND HOLES FOR T	968	PUBLIC WORKS AND RELATED SERVICES	968-82	Traffic Signal Installation	968-82-34	DRILLING FOUNDATIONS AND HAND HOLES FOR TRAFFIC SIGNAL ASSEMBLIES.

Item 4d.

CSI CODE	CSI DESCRIPTION	NIGP CODE	NIGP DESCRIPTION ASSIGNED BY CITY	NIGP 3-DIGIT	NIGP 3-DIGIT DESC	NIGP 5-DIGIT	NIGP 5-DIGIT Description	NIGP 7-DIGIT	NIGP 7-DIGIT DESC
34 40 00	Transportation Signaling and Control Equipment	968-82-44	HAND HOLES AND JUNCTION BOXES; Construct or Adjust	968	PUBLIC WORKS AND RELATED SERVICES	968-82	Traffic Signal Installation	968-82-44	HAND HOLES AND JUNCTION BOXES; THIS ITEM SHALL CONSIST OF FURNISHING ALL LABOR AND MATERIALS TO CONSTRUCT OR ADJUST HAND HOLES AND JUNCTION BOXES AS REQUIRED.
34 70 00	Transportion Construction and Equipment	559-19	Communications Equipment and Accessories, Train	559	MASS TRANSPORTATION - RAIL VEHICLE PARTS AND ACCESSORIES	559-19	Communications Equipment and Accessories, Train		
34 70 00	Transportion Construction and Equipment	559-40	Electrical Accessories and Parts (Not Lighting)	559	MASS TRANSPORTATION - RAIL VEHICLE PARTS AND ACCESSORIES	559-40	Electrical Accessories and Parts (Not Lighting)		
34 70 00	Transportation Contruction and Equipment	913-64	Maintenance and Repair: Airport Roadway, Runway an	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-64	Maintenance and Repair: Airport Roadway, Runway and Taxiway		
34 70 00	Transportation Contruction and Equipment	913-64-50	MUDJACKING AND REPAIRING CONCRETE PAVEMENT SLABS.	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-64	Maintenance and Repair: Airport Roadway, Runway and Taxiway	913-64-50	JOINT SEALING, AIRPORT RUNWAY PAVEMENT. THIS WORK SHALL CONSIST OF FURNISHING ALL LABOR, BARRICADES, MATERIAL AND EQUIPMENT TO REMOVE EXISTING SEALANT, CLEAN AND REFILL CONTRACTION, CONSTRUCTION, EXPANSION JOINTS AND CRACKS ON RUNWAYS WITH HOT POUR JOINT SEALER MEETING FED. SPEC. SS-S-164 OR SS-S-167 W/20% VULCANIZED RUBBER.
34 80 00	Bridges	540-10-70	TIMBERS, BRIDGE, TREATED	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-10	Bridge Timbers and Railroad Ties, Treated	540-10-70	TIMBERS, BRIDGE, TREATED
34 80 00	Bridges	745-49-08	EXPANSION MATERIAL, BRIDGE JOINT	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-49	Expansion Joint Material: Asphalt, Rubber, etc.	745-49-08	EXPANSION MATERIAL, BRIDGE JOINT
34 80 00	Bridges	745-49-53	PADS, BRIDGE POST	745	ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)	745-49	Expansion Joint Material: Asphalt, Rubber, etc.	745-49-53	PADS, BRIDGE POST
35 00 00	Waterway and Marine Construction	961-43	Hydrological Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-43	Hydrological and Oceanography Services		
40 90 00	Instrumentation and Control for Process Systems	890-75-12	ACTUATORS, VALVE, ELECTRONIC (VALVE OPERATORS)	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-75	Valve Operators, Accessories, Parts, and Tools (See 515-82 for Lawn Sprinkler Type)	890-75-12	ACTUATORS, VALVE, ELECTRONIC (VALVE OPERATORS)
41 00 00	Material Process and Handling Equipment	912-54	Maintenance and Repair, Oil and Gas Refinery	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-54	Maintenance and Repair, Oil and Gas Refinery		
43 20 00	Liquid Handling Equipment	100-67-35	DRUMS, STEEL	100	BARRELS, DRUMS, KEGS, AND CONTAINERS	100-67	Steel Barrels, Drums, and Kegs	100-67-35	DRUMS, STEEL
43 20 00	Liquid Handling Equipment	100-67-55	PARTS AND ACCESSORIES, STEEL DRUM (NOT COVERS)	100	BARRELS, DRUMS, KEGS, AND CONTAINERS	100-67	Steel Barrels, Drums, and Kegs	100-67-55	PARTS AND ACCESSORIES, STEEL DRUM (NOT COVERS)
44 30 00	Odor Control	885-76	Odor Control Chemicals, etc.	885	WATER AND WASTEWATER TREATING CHEMICALS	885-76	Odor Control Chemicals, etc.		
46 00 00	Water and Wastewater Equipment	890-08-57	PARTS AND ACCESSORIES, DOMESTIC WATER TREATMENT	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-08	Chlorination Equipment and Parts	890-08-57	PARTS AND ACCESSORIES, DOMESTIC WATER TREATMENT
46 00 00	Water and Wastewater Equipment	890-78	Water Filters and Filter Elements (Except Boiler,	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-78	Water Filters and Filter Elements (Except Boiler, Photographic Darkroom, and Swimming Pool): Cartridges, etc.		
46 00 00	Water and Wastewater Equipment	890-78-41	FILTERS, WATER SYSTEM	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-78	Water Filters and Filter Elements (Except Boiler, Photographic Darkroom, and Swimming Pool): Cartridges, etc.	890-78-41	FILTERS, WATER SYSTEM
46 20 00	Water and Wastewater Preliminary Treatment Equipment	720-12-30	PUMPS, CIRCULATING TYPE	7250	PUMPING EQUIPMENT AND ACCESSORIES	720-12	Booster or Circulating Pumps, In-Line	720-12-30	PUMPS, CIRCULATING TYPE
46 20 00	Water and Wastewater Preliminary Treatment Equipment	720-15-26	PUMPS AND PARTS, CENTRIFUGAL, PORTABLE (GORMAN RUP	720	PUMPING EQUIPMENT AND ACCESSORIES	720-15	Centrifugal Pumps, Portable	720-15-26	PUMPS AND PARTS, CENTRIFUGAL, PORTABLE (GORMAN RUPP OR EQUAL)
46 20 00	Water and Wastewater Preliminary Treatment Equipment	885-48	Descaling Compounds	885	WATER AND WASTEWATER TREATING CHEMICALS	885-48	Descaling Compounds		
46 70 00	Water and Wastewater Residuals Handling and Treatment	968-95	Wastewater Treatment Plant, Operations, and Testing	968	PUBLIC WORKS AND RELATED SERVICES	968-95	Wastewater Treatment Plant, Operations, and Testing		
48 00 00	Electrical Power Generation	690-14	Analyzers and Accessories	690	POWER GENERATION EQUIPMENT, ACCESSORIES, AND SUPPLIES	690-14	Analyzers and Accessories		
48 00 00	Electrical Power Generation	690-88	Transmitters, Pressure	690	POWER GENERATION EQUIPMENT, ACCESSORIES, AND SUPPLIES	690-88	Transmitters, Pressure		

2. NIGP with No CSI Match
Commodity Code Crosswalk - CSI to NIGP

6/16/2014

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
005-14	Abrasives, Coated: Cloth, Fiber, Sandpaper, etc.	005	ABRASIVES	005-14	Abrasives, Coated: Cloth, Fiber, Sandpaper, etc.		
022-80	Tractor (Farm and Garden) Parts	022	AGRICULTURAL EQUIPMENT AND IMPLEMENT PARTS	022-80	Tractor (Farm and Garden) Parts		
055-15-07	CHAINS, SINGLE TRUCK & BUS	055	AUTOMOTIVE ACCESSORIES FOR AUTOMOBILES, BUSES, TRAILERS, TRUCKS, ETC.	055-15	Chains and Traction Belts, Tire	055-15-07	CHAINS, SINGLE TRUCK & BUS
055-36	Grille Guards	055	AUTOMOTIVE ACCESSORIES FOR AUTOMOBILES, BUSES, TRAILERS, TRUCKS, ETC.	055-36	Grille Guards and Crash Cushions		
060-03	Antifreeze	060	AUTOMOTIVE AND TRAILER EQUIPMENT AND PARTS	060-03	Antifreeze		
075-41-54	PARTS AND ACCESSORIES, HOIST (TRUCK MOUNTED)	075	AUTOMOTIVE SHOP AND RELATED EQUIPMENT AND SUPPLIES	075-41	Jacks, Safety Stands, Portable Cranes, and Parts (For Automobiles, Trailers, Trucks, and Transmissions)	075-41-54	PARTS AND ACCESSORIES, HOIST (TRUCK MOUNTED)
075-78-44	LIGHTS, TEST (AUTOMOTIVE)	075	AUTOMOTIVE SHOP AND RELATED EQUIPMENT AND SUPPLIES	075-78	Testers: Engine Analysis, Headlight, Ignition, Timing, Compression, Oscilloscopes, Stroboscopes, etc.	075-78-44	LIGHTS, TEST (AUTOMOTIVE)
080-10	Badges, Buttons, Emblems, and ID Cards, Celluloid	080	BADGES, AWARDS, EMBLEMS, NAME TAGS AND PLATES, JEWELRY, ETC.	080-10	Badges, Buttons, Emblems, and ID Cards, Celluloid and Plastic: Student, Faculty, Membership, Employee, etc.		
080-50	Nameplates, Metal, Adhesive Back	080	BADGES, AWARDS, EMBLEMS, NAME TAGS AND PLATES, JEWELRY, ETC.	080-50	Nameplates, Metal, Adhesive Back		
080-53	Nameplates, Metal, Nonadhesive	080	BADGES, AWARDS, EMBLEMS, NAME TAGS AND PLATES, JEWELRY, ETC.	080-53	Nameplates, Metal, Nonadhesive		
085-45	Bags: Nylon, Polyester, Polypropylene	085	BAGS, BAGGING, TIES, AND EROSION SHEETING, ETC.	085-45	Bags: Nylon, Polyester, Polypropylene		
120-47	Lifeboats	120	BOATS, MOTORS, AND MARINE EQUIPMENT	120-47	Lifeboats, Sailboats and Dinghies		
135-20	Coloring for Cement and Grout	135	BRICKS, CLAY, REFRACTORY MATERIALS, STONE, AND TILE PRODUCTS	135-20	Coloring for Cement and Grout		
145-43	Masonry Brushes	145	BRUSHES (SEE CLASS 485 FOR JANITORIAL TYPE)	145-43	Masonry Brushes		
175-42	Glassware, Laboratory (Stock Only)	175	CHEMICAL LABORATORY EQUIPMENT AND SUPPLIES	175-42	Glassware, Laboratory (Stock Only)		
175-54-22	BOX, SLIDE, WOOD	175	CHEMICAL LABORATORY EQUIPMENT AND SUPPLIES	175-54	Laboratory Supplies: Asbestos Squares, Corks, Files, Glass Cutters, Ring Stands, Stopcock Grease, Tongs, Wire Gauze, etc.	175-54-22	BOXES, SLIDE, WOOD
175-77	Sand, Cement Testing	175	CHEMICAL LABORATORY EQUIPMENT AND SUPPLIES	175-77	Sand, Cement Testing		
195-68	Time Clocks and Recorders, Accessories, and Parts	195	CLOCKS, WATCHES, TIMEPIECES, JEWELRY AND PRECIOUS STONES	195-68	Time Clocks and Recorders, Accessories, and Parts		
204-33	Drives, Compact Disk (CD ROM, etc.)	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-33	Drives, Compact Disk (CD ROM, DVR, etc.)		
204-60	Monitors, Color and Monochrome (CGA, VGA, SVGA, et	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-60	Monitors, Color and Monochrome (CGA, VGA, SVGA, etc.)		
204-60-37	MONITORS, COLOR, FOR COMPUTERS	204	COMPUTER HARDWARE AND PERIPHERALS FOR MICROCOMPUTERS	204-60	Monitors, Color and Monochrome (CGA, VGA, SVGA, etc.)	204-60-37	MONITORS, COLOR, FOR COMPUTERS
206-46	Drives: Hard/Fixed Disk	206	COMPUTER HARDWARE AND PERIPHERALS FOR MINI AND MAIN FRAME COMPUTERS	206-46	Drives: Hard/Fixed Disk		
208-10	Accounting/Financial: Bookkeeping, Billing, Inv Software, PC	208	COMPUTER SOFTWARE FOR MICROCOMPUTERS, SYSTEMS, INCLUDING CLOUD-BASED (PREPROGRAMMED)	208-10	Accounting/Financial: Bookkeeping, Billing and Invoicing, Budgeting, Payroll, Taxes, etc.		
208-20	Business Software, Misc.: Agenda, Labels, Mail Lists	208	COMPUTER SOFTWARE FOR MICROCOMPUTERS, SYSTEMS, INCLUDING CLOUD-BASED (PREPROGRAMMED)	208-20	Business Software, Misc.: Agenda, Labels, Mail List, Planning, Scheduling, etc.		
208-68	Project Management Software	208	COMPUTER SOFTWARE FOR MICROCOMPUTERS, SYSTEMS, INCLUDING CLOUD-BASED (PREPROGRAMMED)	208-68	Project Management		
208-76	MicroComputer Software, Real Estate/Property Management	208	COMPUTER SOFTWARE FOR MICROCOMPUTERS, SYSTEMS, INCLUDING CLOUD-BASED (PREPROGRAMMED)	208-76	Real Estate/Property Management		
209-11	Accounting/Financial:Mainframe Software, Billing, Inv, Accou	290	COMPUTER SOFTWARE FOR MINI AND MAINFRAME COMPUTERS (PREPROGRAMMED)	209-11	Accounting/Financial: Bookkeeping, Billing and Invoicing, Budgeting, Payroll, Taxes, etc.		
209-77	Mini or Mainframe Software, Real Estate/Property Management	209	COMPUTER SOFTWARE FOR MINI AND MAINFRAME COMPUTERS (PREPROGRAMMED)	209-77	Real Estate/Property Management		
255-30	Decals, Water Transfer Type (For Cigarette Machine	255	DECALS AND STAMPS	255-30	Decals, Water Transfer Type (For Cigarette Machines, Doors, Equipment, Vehicles, Windows, etc.)		
280-08	Appliance, Fixture, and Portable Cables and Wires	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-08	Appliance, Fixture, and Portable Cables and Wires (Up to 600V): Types S, SJ, SJO, SO, SPT, TF, TFF, etc.		
280-16	Bare Cables and Wires: Type ACSR, Bare Copper, Bar	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-16	Bare Cables and Wires: Type ACSR, Bare Copper, Bare Aluminum, etc.		
280-30-55	CABLE, POWER CONTROL	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-30	Control Cables and Wires, Solid and Stranded, Single and Multiconductor (Up to 600V, for use in Boiler Controls Fire Alarms, Motors, etc.)	280-30-55	CABLE, POWER CONTROL
280-30-65	CABLE, STREET LIGHTING, DIRECT BURIAL	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-30	Control Cables and Wires, Solid and Stranded, Single and Multiconductor (Up to 600V, for use in Boiler Controls Fire Alarms, Motors, etc.)	280-30-65	CABLE, STREET LIGHTING, DIRECT BURIAL
280-30-86	CABLE, TRAFFIC SIGNAL, DIRECT BURY AND OVERHEAD	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-30	Control Cables and Wires, Solid and Stranded, Single and Multiconductor (Up to 600V, for use in Boiler Controls Fire Alarms, Motors, etc.)	280-30-86	CABLE, TRAFFIC SIGNAL, DIRECT BURY AND OVERHEAD
280-30-92	WIRE, ELECTRICAL CONTROL	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-30	Control Cables and Wires, Solid and Stranded, Single and Multiconductor (Up to 600V, for use in Boiler Controls Fire Alarms, Motors, etc.)	280-30-92	WIRE, ELECTRICAL CONTROL
280-50-86	WIRE, THERMOSTAT	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-50	Heating Cables and Wires (Up to 277V): Lead Covered, Neoprene Jacket, etc.	280-50-86	WIRE, THERMOSTAT
280-75	Ties and Anchors, Cable and Wiring	280	ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)	280-75	Ties and Anchors, Cable and Wiring		
285-10	Cable Accessories: Clamps, Clasps, Clips, Closures	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-10	Cable Accessories: Clamps, Clasps, Clips, Closures, Reels, Splices, Wrappings, etc.		
285-15	Coatings, Protective, Electrical	285	ELECTRICAL EQUIPMENT AND SUPPLIES (EXCEPT CABLE AND WIRE)	285-15	Coatings, Protective, Electrical		
305-33-55	MISCELLANEOUS DRAFTING SUPPLIES	305	ENGINEERING AND ARCHITECTURAL EQUIPMENT, SURVEYING EQUIPMENT, DRAWING INSTRUMENTS, AND SUPPLIES	305-33	Drafting Supplies: Brushes (Dust and Wash), Cleaning Pads and Power, Paper Shears, Paper Weights, Steel Erasers, Transparent Protective Film and Tape, etc.	305-33-55	DRAFTING SUPPLIES, MISCELLANEOUS
315-80-40	EPOXY, RESIN, GROUT COMPONENT	315	EPOXY BASED FORMULATIONS FOR ADHESIVES, COATINGS, AND RELATED AGENTS	315-80	Mortars and/or Grouts	315-80-40	EPOXY, RESIN, GROUT COMPONENT
320-10-53	ANCHORS, WEDGE, MASONRY, EXPANSION, HIGH TENSILE S	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-10	Anchors, Expansion Shields, Molly Bolts, Plugs, Toggle Bolts, U-Bolts, etc.	320-10-53	ANCHORS, WEDGE, MASONRY, EXPANSION, HIGH TENSILE STEEL
320-20-52	BOLTS, FLANGE, WITH HEAVY HEX NUTS	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-20	Bolts, Steel	320-20-52	BOLTS, FLANGE, WITH HEAVY HEX NUTS
320-35	Cotter Pins, Clevis Pins, Dowel Pins, Spring Pins,	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-35	Cotter Pins, Clevis Pins, Dowel Pins, Spring Pins, Taper Pins, and Woodruff Keys and Snaps		
320-42	Nuts, Steel (Including Nutserts)	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-42	Nuts, Steel (Including Nutserts)		
320-43	Nuts, Metal or Other Material (Not Steel)	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-43	Nuts, Metal or Other Material (Not Steel)		
320-55-84	TOOLS, FASTENING, POWER ACTUATED	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-55	Powder Actuated (Explosive) Tools and Supplies	320-55-84	TOOLS, FASTENING, POWER ACTUATED
320-70	Screws, Cap	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-70	Screws, Cap		
320-71	Screws: Coach, Drywall, Eye, Lag, Phillips, Set, T	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-71	Screws, Coach, Drywall, Eye, Lag, Phillips, Set, Thumb, etc.		
320-73	Screws, Sheet Metal	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-73	Screws, Sheet Metal		
320-83	Threaded Rod and Studs	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-83	Threaded Rods, Studs, and Fittings		
320-91	Washers, Steel	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-91	Washers, Steel		
320-92	Washers, Metal or Other Material (Not Steel)	320	FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC. (INCL. PACKAGING, STRAPPING AND TYING EQUIPMENT AND SUPPLIES)	320-92	Washers, Metal or Other Material (Not Steel)		
345-08-26	BELTS, SAFETY, LADDER (FOR PREVENTING FALLS)	345	FIRST AID AND SAFETY EQUIPMENT AND SUPPLIES (EXCEPT NUCLEAR AND WELDING)	345-08	Clothing and Belts, Safety (Not Automotive)(See 345-79 for Reflective Type)	345-08-26	BELTS, FIREFIGHTER, UTILITY
385-48-44	FRUIT ICE, FROZEN	385	FOODS, FROZEN	385-48	Fruits, Frozen	385-48-44	FRUIT ICE, FROZEN
385-54-26	CRANBERRY JUICE, FROZEN	385	FOODS, FROZEN	385-54	Juices	385-54-26	CRANBERRY JUICE, FROZEN
390-35	Ice	390	FOODS: PERISHABLE	390-35	Ice		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
390-49	Meat: Cured, Fresh, and Frozen	390	FOODS: PERISHABLE	390-49	Meat: Cured, Fresh, and Frozen		
390-91	Water, Drinking (Including Distilled)	390	FOODS: PERISHABLE	390-91	Water, Drinking (Incl. Distilled, Mineral, Sparkling and Spring)		
390-91-42	WATER, DISTILLED, SALT FREE	390	FOODS: PERISHABLE	390-91	Water, Drinking (Incl. Distilled, Mineral, Sparkling and Spring)	390-91-42	WATER, DISTILLED, SALT FREE
393-60	Juices, Fruit and Vegetable (Not Frozen)	393	FOODS: STAPLE GROCERY AND GROCER'S MISCELLANEOUS ITEMS	393-60	Juices, Fruit and Vegetable (Not Frozen)		
395-25	Continuous Form Labels, Pressure Sensitive, Custom	395	FORMS, CONTINUOUS: COMPUTER PAPER, FORM LABELS, SNAP-OUT FORMS, AND FOLDERS FOR FORMS	395-25	Continuous Form Labels, Pressure Sensitive, Custom		
395-50	Continuous Forms (Computer Paper), Stock (Includin	395	FORMS, CONTINUOUS: COMPUTER PAPER, FORM LABELS, SNAP-OUT FORMS, AND FOLDERS FOR FORMS	395-50	Continuous Forms (Computer Paper), Stock (Including Blank, Ruled, and Tinted Types -See Class 525 for Library Stock Continuous Forms)		
405-07	Fuel Additives, Extenders, Octane Enhancers, etc.	405	FUEL, OIL, GREASE AND LUBRICANTS	405-07	Fuel Additives, Extenders, Octane Enhancers, etc.		
405-24	Grease, Lubrication Type	405	FUEL, OIL, GREASE AND LUBRICANTS	405-24	Grease, Lubrication Type		
405-24-41	GREASE, HAMMER	405	FUEL, OIL, GREASE AND LUBRICANTS	405-24	Grease, Lubrication Type	405-24-41	GREASE, HAMMER
405-30	Kerosene	405	FUEL, OIL, GREASE AND LUBRICANTS	405-30	Kerosene		
405-38-14	ADDITIVES, OIL	405	FUEL, OIL, GREASE AND LUBRICANTS	405-38	Oil and Grease Additives	405-38-14	ADDITIVES, OIL
445-06	Bits, Dies, Drivers, Reamers, Taps, etc. (For Hand	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-06	Bits, Dies, Drivers, Reamers, Taps, etc. (For Hand Tools, Powered and Non-Powered)		
445-08	Blades, Hand Saw (Non-Powered)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-08	Blades, Hand Saw (Non-Powered)		
445-09	Blades: Handsaw, (Powered) Circular, and Reciproca	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-09	Blades: Handsaw, (Powered) Circular, and Reciprocating (For Powered and Non-Powered Portable Saws)		
445-10	Bricklaying Tools	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-10	Bricklaying Tools		
445-12	Caulking Guns, Putty Knives, Scrapers, etc.	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-12	Caulking Guns, Putty Knives, Scrapers, etc.		
445-13	Carpet Laying Tools (Including Knee Pads)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-13	Carpet Laying Tools (Including Knee Pads)		
445-15	Chisels, Drawknives, Planes, etc.	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-15	Chisels, Drawknives, Planes, etc.		
445-18	Clamps: Bar, "C", Carriage, Hand, Spring, etc.; an	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-18	Clamps: Bar, "C", Carriage, Hand, Spring, etc.; and Clamp Fixtures		
445-21	Cutters and Knives: Bolt, Burrs, Glass, Nippers, P	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-21	Cutters and Knives: Bolt, Burrs, Glass, Nippers, Pinchers, etc.		
445-26	Drills, Hand, Non-Powered: Braces, etc.	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-26	Drills, Hand, Non-Powered: Braces, etc.		
445-27	Drills, Hand, Portable, (Powered), Automatic	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-27	Drills, Hand, Portable, (Powered), Automatic		
445-29	Extractors, Pullers, and Inserters	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-29	Extractors, Pullers, and Inserters		
445-30	Fastening Tools: Nailing Machines, Staplers, Tacke	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-30	Fastening Tools: Nailing Machines, Staplers, Tackers, etc.		
445-32	Files and Rasps	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-32	Files and Rasps		
445-38	Hammers, Mallets, Crow Bars, Pinch Bars, Pry Bars,	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-38	Hammers, Mallets, Crow Bars, Pinch Bars, Pry Bars, Ripping Bars, Sledges, Wrecking Bars, All Types		
445-45	Leather and Canvas Aprons and Tool Pouches, Carpen	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-45	Leather and Canvas Aprons and Tool Pouches, Carpenter's and Electrician's		
445-46	Levels, Chalk Lines, Chalk Line Refills, etc.	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-46	Levels, Chalk Lines, Chalk Line Refills, etc.		
445-52	Pliers, All Kinds (Except Stock Tagging)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-52	Pliers, All Kinds (Except Stock Tagging)		
445-57	Rules, Squares, and Tapes (Carpenter, etc.)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-57	Rules, Squares, and Tapes (Carpenter, etc.)		
445-58	Saws (Non-Powered): Hack, Keyhole, Pruning, Pole,	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-58	Saws (Non-Powered): Hack, Keyhole, Pruning, Pole, etc.		
445-59	Saws, Hand, Portable (Powered)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-59	Saws, Hand, Portable (Powered)		
445-61	Scoops, Shovels, Spades, Spading Forks, etc. (Incl	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-61	Scoops, Shovels, Spades, Spading Forks, etc. (Including Entrenching Tools)		
445-64	Screwdrivers, All Kinds	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-64	Screwdrivers, All Kinds		
445-70	Snips: Metal, Tin, etc.	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-70	Snips: Metal, Tin, etc.		
445-79	Tool Boxes, Cabinets, and Chests (For Truck Tool C	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-79	Tool Boxes, Cabinets, and Chests (For Truck Tool Compartment Boxes See Class 065)		
445-82	Tool Sets, All Kinds	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-82	Tool Sets, All Kinds		
445-83	Tree and Pole Climbing Equipment	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-83	Tree and Pole Climbing Equipment		
445-91	Wrenches, All Kinds (Including Sockets)	445	HAND TOOLS (POWERED AND NON-POWERED), ACCESSORIES AND SUPPLIES	445-91	Wrenches, All Kinds (Including Sockets)		
450-02	Adhesives: Rubber and Silicone	450	HARDWARE AND RELATED ITEMS	450-02	Adhesives: Rubber and Silicone		
450-03	Adhesives: Glue and Glue Guns, Gum, Paste, etc.	450	HARDWARE AND RELATED ITEMS	450-03	Adhesives: Glue and Glue Guns, Gum, Paste, etc.		
450-13	Blow Torches, Furnaces, Ladles, Melting Pots, etc.	450	HARDWARE AND RELATED ITEMS	450-13	Blow Torches, Furnaces, Ladles, Melting Pots, etc.		
450-17	Cans, Safety: Gasoline, Kerosene, Oil, etc.	450	HARDWARE AND RELATED ITEMS	450-17	Cans, Safety: Gasoline, Kerosene, Oil, etc.		
450-36	Hasps, Hinges, Hooks, Knobs, Latches, Pulls, Shelf	450	HARDWARE AND RELATED ITEMS	450-36	Hasps, Hinges, Hooks, Knobs, Latches, Pulls, Shelf Brackets, Swivels, etc.		
450-36-65	HINGES, TEE, HEAVY, STEEL	450	HARDWARE AND RELATED ITEMS	450-36	Hasps, Hinges, Hooks, Knobs, Latches, Pulls, Shelf Brackets, Swivels, etc.	450-36-65	HINGES, TEE, HEAVY, STEEL
450-42	House and Building Numbers and Letters, All Kinds	450	HARDWARE AND RELATED ITEMS	450-42	House and Building Numbers and Letters, All Kinds		
450-44	Ice Chests, Portable, Thermos Bottles, etc.	450	HARDWARE AND RELATED ITEMS	450-44	Ice Chests, Portable, Thermos Bottles, etc.		
450-48	Ladders, Fiberglass, All Types (See Class 340 for	450	HARDWARE AND RELATED ITEMS	450-48	Ladders, Fiberglass, All Types (See Class 340 for Fire Ladders)		
450-48-13	LADDERS, FIBERGLASS, HEAVY DUTY, SINGLE STEP, NON	450	HARDWARE AND RELATED ITEMS	450-48	Ladders, Fiberglass, All Types (See Class 340 for Fire Ladders)	450-48-13	LADDERS, FIBERGLASS, HEAVY DUTY, SINGLE STEP, NON CONDUCTIVE, REINFORCED. MUST MEET OSHA SPECIFICATIONS, TYPE I
450-51-12	LADDERS, WOOD, STRAIGHT	450	HARDWARE AND RELATED ITEMS	450-51	Ladders, Wood, All Types (See Class 340 for Fire Ladders)	450-51-12	LADDERS, WOOD, STRAIGHT
450-54	Levelers and Jacks for Ladders	450	HARDWARE AND RELATED ITEMS	450-54	Levelers and Jacks for Ladders		
450-55-44	PADLOCKS AND PARTS, BEST LOCK OR EQUAL	450	HARDWARE AND RELATED ITEMS	450-55	Locks, Key Blanks, and Locksmith Tools (Including Time Locks)	450-55-44	PADLOCKS AND PARTS, BEST LOCK OR EQUAL
450-58	Nails, Brads, Concrete Nails, Masonry Nails, Spike	450	HARDWARE AND RELATED ITEMS	450-58	Nails, Brads, Concrete Nails, Masonry Nails, Spikes, Staples, Tacks, etc. (See 559-79 for Railroad Track Spikes)		
450-58-76	SPIKES, SURVEY, STEEL	450	HARDWARE AND RELATED ITEMS	450-58	Nails, Brads, Concrete Nails, Masonry Nails, Spikes, Staples, Tacks, etc. (See 559-79 for Railroad Track Spikes)	450-58-76	SPIKES, SURVEY, STEEL
450-59	Measuring Devices for Cable, Hose, Rope, etc.	450	HARDWARE AND RELATED ITEMS	450-59	Measuring Devices for Cable, Hose, Rope, etc.		
450-63-45	PULLEYS, WIRE ROPE	450	HARDWARE AND RELATED ITEMS	450-63	Pulleys and Sheaves	450-63-45	PULLEYS, WIRE ROPE
450-89	Wheelbarrows	450	HARDWARE AND RELATED ITEMS	450-89	Wheelbarrows		
450-91	Wire, General Purpose Tying and Wrapping, Includir	450	HARDWARE AND RELATED ITEMS	450-91	Wire, General Purpose Tying and Wrapping, Including Accessories and Parts		
450-93	Wire Stretchers	450	HARDWARE AND RELATED ITEMS	450-93	Wire Stretchers		
460-10	Air Hose and Fittings	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-10	Air Hose and Fittings		
460-20	Fuel Hose: Diesel, Gasoline, etc. (Including Fitti	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-20	Fuel Hose: Diesel, Gasoline, etc. (Including Fittings)		
460-30	Garden (Water) Hose, Plastic and Rubber (Including	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-30	Garden (Water) Hose, Plastic and Rubber (Including Soaker Hoses)		
460-35	Garden Hose Accessories: Bands, Couplings, Nozzles	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-35	Garden Hose Accessories: Bands, Couplings, Nozzles, Splicers, etc.		
460-36	Hose, General Purpose	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-36	Hose, General Purpose		
460-45	Hydraulic Hose and Fittings (See 285-30 for Dielec	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-45	Hydraulic Hose and Fittings (See 285-30 for Dielectric Hose and Fittings)		
460-75	Sand Blasting Hose and Fittings	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-75	Sand Blasting Hose and Fittings		
460-90	Water Hose and Fittings, High Pressure	460	HOSE, ACCESSORIES, AND SUPPLIES: INDUSTRIAL, COMMERCIAL, AND GARDEN	460-90	Water Hose and Fittings, High Pressure		
485-10	Brooms, Brushes, and Handles	485	JANITORIAL SUPPLIES, GENERAL LINE	485-10	Brooms, Brushes, and Handles		
485-12	Cleaner and Polish, Metal (For Brass, Stainless St	485	JANITORIAL SUPPLIES, GENERAL LINE	485-12	Cleaner and Polish, Metal (For Brass, Stainless Steel, etc.)		
485-13	Cleaner, Hand and Skin, Synthetic Detergent Type	485	JANITORIAL SUPPLIES, GENERAL LINE	485-13	Cleaner, Hand and Skin, Synthetic Detergent Type (See 435-68, 70 for Skin Cleaners for Health Care Personnel		
485-14	Cleaner, Hand, Mechanics' Waterless	485	JANITORIAL SUPPLIES, GENERAL LINE	485-14	Cleaner, Hand, Mechanics' Waterless		
485-16	Cleaner, Hard Surface, General Purpose, Liquid (In	485	JANITORIAL SUPPLIES, GENERAL LINE	485-16	Cleaner, Hard Products, General Purpose, Liquid (Includes Graffiti Cleaners)		
485-18	Cleaner, Heavy Duty Degreaser (Including Oven Clea	485	JANITORIAL SUPPLIES, GENERAL LINE	485-18	Cleaner, Heavy Duty Degreaser, Including Oven Cleaners		
485-18-75	SOLVENT, DEGREASE CLEANER, HEAVY DUTY	485	JANITORIAL SUPPLIES, GENERAL LINE	485-18	Cleaner, Heavy Duty Degreaser, Including Oven Cleaners	485-18-75	SOLVENTS, DEGREASE CLEANER, HEAVY DUTY
485-20	Cleaner and Polish for Marble, Masonry, Porcelain,	485	JANITORIAL SUPPLIES, GENERAL LINE	485-20	Cleaner and Polish for Marble, Masonry, Porcelain, etc.		
485-22	Cleaner, Sewer, Septic Tank, and Waste Pipe, Acid	485	JANITORIAL SUPPLIES, GENERAL LINE	485-22	Cleaner, Sewer, Septic Tank, and Waste Pipe, Acid and Caustic Types (Incl. Drain Openers)		
485-25	Cleaner, Tile and Grout	485	JANITORIAL SUPPLIES, GENERAL LINE	485-25	Cleaner, Tile and Grout		
485-28	Cleaner and Wax: Window, Mirror, and Glass	485	JANITORIAL SUPPLIES, GENERAL LINE	485-28	Cleaner and Wax: Window, Mirror, and Glass		
485-55	Floor Stripper and Cleaner	485	JANITORIAL SUPPLIES, GENERAL LINE	485-55	Floor Stripper and Cleaners		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
485-88	Squeegees, Sponges, and Scrubbing Pads (For Manual	485	JANITORIAL SUPPLIES, GENERAL LINE	485-88	Squeegees, Sponges, and Scrubbing Pads (For Manual Hard Surface Cleaning)		
515-15	Engines, Motors, and Parts (For Lawn Equipment)	515	LAWN MAINTENANCE EQUIPMENT AND ACCESSORIES (SEE CLASS 020 FOR AGRICULTURAL TYPES)	515-15	Engines, Motors, and Parts (For Lawn Equipment)		
515-75	Spreaders, Broadcast, Fertilizer and Seed	515	LAWN MAINTENANCE EQUIPMENT AND ACCESSORIES (SEE CLASS 020 FOR AGRICULTURAL TYPES)	515-75	Spreaders, Broadcast, Fertilizer and Seed		
515-83	Tree Trimming and Pruning Equipment (Portable, Pow	515	LAWN MAINTENANCE EQUIPMENT AND ACCESSORIES (SEE CLASS 020 FOR AGRICULTURAL TYPES)	515-83	Tree Trimming and Pruning Equipment (Portable, Power Operated - Not Saws)		
540-90-30	STAKES, SURVEY, WOOD	540	LUMBER, SIDING, AND RELATED PRODUCTS	540-90	Stakes: Engineers', Agricultural, etc.	540-90-30	STAKES, SURVEY, WOOD
557-25 *	Electrical Accessories and Parts (Not Lighting)	557	MASS TRANSPORTATION - TRANSIT BUS ACCESSORIES AND PARTS	557-25	Electrical Accessories and Parts (Not Lighting)		
560-69	Trucks, Hand, Two-Wheeled	560	MATERIAL HANDLING, CONVEYORS, STORAGE EQUIPMENT AND ACCESSORIES	560-69	Trucks, Hand, Two-Wheeled		
578-86	Tags, Key (All Kinds)	578	MISCELLANEOUS PRODUCTS (NOT OTHERWISE CLASSIFIED)	578-86	Tags, Key (All Kinds)		
615-09-35	BINDERS, LOOSE LEAF, NYLON POST, PRESSBOARD	615	OFFICE SUPPLIES, GENERAL	615-09	Binders: Chain, Post, Prong, Ring, etc.	615-09-35	BINDERS, LOOSE LEAF, NYLON POST, PRESSBOARD
615-14	Boards: Calendar, Schedule, Dispatch, Manning, etc	615	OFFICE SUPPLIES, GENERAL	615-14	Boards: Calendar, Schedule, Dispatch, Manning, etc.		
615-17	Box Files	615	OFFICE SUPPLIES, GENERAL	615-17	Box Files		
615-95	Wastebaskets, Office, All Types	615	OFFICE SUPPLIES, GENERAL	615-95	Wastebaskets, Office, All Types		
620-60	Pencils, Lead; Pencil Leads; Pencil Lengtheners; e	620	OFFICE SUPPLIES: ERASERS, INKS, LEADS, PENS, PENCILS, ETC.	620-60	Pencils, Lead; Pencil Leads; Pencil Lengtheners; etc.		
635-14	Drop Cloths, Hoods and Mitts, Painter's	635	PAINTING EQUIPMENT AND ACCESSORIES	635-14	Drop Cloths, Hoods and Mitts, Painter's		
635-38	Masking Film (Spray Booth Lining), Masking Paper,	635	PAINTING EQUIPMENT AND ACCESSORIES	635-38	Masking Film (Spray Booth Lining), Masking Paper, etc.		
635-45-64	PAINT REMOVAL EQUIPMENT	635	PAINTING EQUIPMENT AND ACCESSORIES	635-45	Paint and Varnish Removing Equipment	635-45-64	PAINT REMOVAL EQUIPMENT
635-47	Rollers, Paint Can Holders, Trays and Accessories	635	PAINTING EQUIPMENT AND ACCESSORIES	635-47	Rollers, Paint Can Holders, Trays and Accessories		
635-80	Sprayers and Spray Systems, Industrial, Heavy Duty	635	PAINTING EQUIPMENT AND ACCESSORIES	635-80	Sprayers and Spray Systems, Industrial, Heavy Duty		
655-35-37	CAMERAS, STILL, DISPOSABLE	655	PHOTOGRAPHIC EQUIPMENT, FILM, AND SUPPLIES (NOT GRAPHIC ARTS, MICROFILM, AND X-RAY)	655-35	Cameras, Still, Non-specialized (Including Infrared Types, Self-Developing Types, etc.)	655-35-37	CAMERAS, STILL, DISPOSABLE
655-67	Film, Photographic (Including Movie Films)	655	PHOTOGRAPHIC EQUIPMENT, FILM, AND SUPPLIES (NOT GRAPHIC ARTS, MICROFILM, AND X-RAY)	655-67	Film, Photographic (Including Movie Films and Polaroid Type)		
655-85	Slide Preparation Supplies: Mounting Presses, Moun	655	PHOTOGRAPHIC EQUIPMENT, FILM, AND SUPPLIES (NOT GRAPHIC ARTS, MICROFILM, AND X-RAY)	655-85	Slide Preparation Supplies: Mounting Presses, Mounts, etc.		
715-50	Microfilm, Microfiche, etc. (Prepared)	715	PUBLICATIONS, AUDIOVISUAL MATERIALS, BOOKS, TEXTBOOKS (PREPARED MATERIALS ONLY)	715-50	Microfilm, Microfiche, etc. (Prepared)		
730-54-56	PROBES, TEST	730	RADIO COMMUNICATION AND TELECOMMUNICATION TESTING, MEASURING, AND ANALYZING EQUIPMENT, ACCESSORIES AND SUPPLIES	730-54	Measuring Instruments, Analog and Digital (For Capacitance, Current, Frequency, Impedance, Power, Resistance, Sound Level, Voltage, etc.)	730-54-56	PROBES, TEST
740-09	Bacterial and Odor Control Equipment	740	REFRIGERATION EQUIPMENT AND ACCESSORIES	740-09	Bacterial and Odor Control Equipment		
740-59	Refrigeration Accessories and Supplies: Capillarie	740	REFRIGERATION EQUIPMENT AND ACCESSORIES	740-59	Refrigeration Accessories and Supplies: Capillaries, Controls, Dryers, Expansion Valves, Refrigerant Oil, Sealants, Sight Glasses, Thermometers, Vibration Eliminators, etc.		
755-43	Asphalt and Concrete Scrapers, Profilers, and Mil	755	ROAD AND HIGHWAY ASPHALT AND CONCRETE HANDLING AND PROCESSING EQUIPMENT	755-43	Asphalt and Concrete Scrapers, Profilers, and Milling Machines (Powered, Complete)		
755-65	Concrete Cutters, Saws, Multipurpose Saws, and Acc	755	ROAD AND HIGHWAY ASPHALT AND CONCRETE HANDLING AND PROCESSING EQUIPMENT	755-65	Concrete Cutters, Saws, Multipurpose Saws, and Accessories		
760-27	Electrical Accessories, Heavy Equip.: Alternators,	760	ROAD AND HIGHWAY EQUIPMENT: EARTH HANDLING, GRADING, MOVING, PACKING, ETC.	760-27	Electrical Accessories, Heavy Equipment: Alternators, Ammeters, Coils, Distributors Generators, Ignition, Regulators, Starters, etc.		
760-51	Loaders, Pneumatic Tired	760	ROAD AND HIGHWAY EQUIPMENT: EARTH HANDLING, GRADING, MOVING, PACKING, ETC.	760-51	Loaders, Pneumatic Tired		
765-03	Booms: Crane, Tractor, etc.	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-03	Booms: Crane, Tractor, etc.		
765-08	Core Drilling Rigs and Accessories	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-08	Core Drilling Rigs and Accessories		
765-13	Cranes, Truck Mounted Type, Heavy Duty	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-13	Cranes, Truck Mounted Type, Heavy Duty		
765-27	Drill Steel and Rock Bits	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-27	Drill Steel and Rock Bits		
765-49	Pneumatic Machines: Demolition Tools, Paving Break	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-49	Pneumatic Machines: Demolition Tools, Paving Breakers, Rock Cutters, Tampers, etc. (See 765-80 for Non Pneumatic Tampers)		
765-72-54	PAINT STRIPING MACHINES AND PARTS (MISC.)	765	ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CLASSES 755 AND 760)	765-72	Striping Machines and Accessories	765-72-54	PARTS, PAINT STRIPING MACHINES (MISC.)
785-92	Training Aids, Materials, and Equipment for the In	785	SCHOOL EQUIPMENT, TEACHING AIDS, AND SUPPLIES	785-92	Training Aids, Materials, and Equipment for the Industrial Trades (Welding, Electrical, Instrumentation, Industrial Mechanics, etc.)		
855-15	Costumes and Accessories	855	THEATRICAL EQUIPMENT AND SUPPLIES	855-15	Costumes and Accessories		
863-10	Tires and Tubes, Medium Truck and Bus	863	TIRES AND TUBES (INCL. RECAPPED/RETREADED TIRES)	863-10	Tires and Tubes, Medium Truck and Bus		
863-20	Tires and Tubes, Farm Tractor and Implement	863	TIRES AND TUBES (INCL. RECAPPED/RETREADED TIRES)	863-20	Tires and Tubes, Farm Tractor and Implement		
890-72	Tapping Machines and Equipment	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-72	Tapping Machines and Equipment		
895-30	Gas Cylinder Carts, Industrial	895	WELDING EQUIPMENT AND SUPPLIES	895-30	Gas Cylinder Carts, Industrial		
898-10	Chemicals, Developing and Processing	898	X-RAY AND OTHER RADIOLOGICAL EQUIPMENT AND SUPPLIES (MEDICAL)	898-10	Chemicals, Developing and Processing		
898-35	Film, X-Ray (Including Dental)	898	X-RAY AND OTHER RADIOLOGICAL EQUIPMENT AND SUPPLIES (MEDICAL)	898-35	Film, X-Ray (Including Dental)		
906-06	Airports (Lighting, Fueling, Nav aids)- Architectural Service	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-06	Airports (Lighting, Fueling, Nav aids) - Architectural Services		
906-07	Architect Services, Professional	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-07	Architect Services, Professional		
906-08	Automation; Controls; Instrumentation- Architectural Service	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-08	Automation; Controls; Instrumentation - Architectural Services		
906-10	Buildings - Architectural Design	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-10	Buildings - Architectural Design		
906-12	Building Sanitation - Architectural Services	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-12	Building Sanitation - Architectural Services		
906-18	Cold Storage; Refrigeration; Fast Freeze- Architectural Serv	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-18	Cold Storage; Refrigeration; Fast Freeze - Architectural		
906-22	Corrosion Control; Cathodic Protection; Electrolys - Archite	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-22	Corrosion Control; Cathodic Protection; Electrolysis - Architectural		
906-25	DRAFTSMAN SERVICES, PROFESSIONAL	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-25	Design Build Services		
906-30	Fire Protection - Architectural Services	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-30	Fire Protection - Architectural Services		
906-38	General Construction - Architectural	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-38	General Construction - Architectural		
906-40	Graphic Design - Architectural	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-40	Graphic Design - Architectural		
906-46	Highways; Streets; Airport Pay-Parking Lots- Architectural	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-46	Highways; Streets; Airport Pay-Parking Lots - Architectural		
906-50	Industrial Processes; Quality Control	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-50	Industrial Processes; Quality Control		
906-52	Interior Design, Space Planning, and Exhibits/Disp	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-52	Interior Design, Space Planning, and Exhibits/Displays		
906-54	Irrigation; Drainage; Flood Control - Architectura	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-54	Irrigation; Drainage; Flood Control - Architectural		
906-56	Landscape Architecture	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-56	Landscape Architecture		
906-58	Lighting (Interior, Exterior) - Architectural Services	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-58	Lighting (Interior, Exterior) - Architectural Services		
906-68	Power Generation, Transmission, Distribution- Architectura	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-68	Power Generation, Transmission, Distribution - Architectura		
906-70	Railroad; Rapid Transit; Monorail - Architectura	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-70	Railroad; Rapid Transit; Monorail - Architectural		
906-72	Recreation Facilities (Parks, Marinas, etc.)- Architectural	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-72	Recreation Facilities (Parks, Marinas, etc.) - Architectural Services		
906-78	Security Systems; Intruder and Smoke Detection - Architectur	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-78	Security Systems; Intruder and Smoke Detection - Architectural		
906-80	Sewage Collection, Treatment, and Disposal- Architectural	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-80	Sewage Collection, Treatment, and Disposal - Architectural		
906-82	Solid Wastes; Disposal Systems- Architectural Services	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-82	Solid Wastes; Disposal Systems - Architectural Services		
906-88	Towers - Architectural Services	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-88	Towers - Architectural Services		
906-94	Water Supply, Treatment and Distribution- Architectura	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-94	Water Supply, Treatment and Distribution - Architectural		
907-35	Designing Services (Architectural & Engineering NP)	907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFESSIONAL	907-35	Designing Services		
907-42	Geotechnical - Soils	907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFESSIONAL	907-42	Geotechnical - Soils		
907-75	Site Assessment and Site Field Observation	907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFESSIONAL	907-75	Site Assessment and Site Field Observation		
907-83	Testing Services (Architectural & Engineering)	907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFESSIONAL	907-83	Testing Services		
908-10	Bookbinding, Custom	908	BOOKBINDING AND REPAIRING SERVICES	908-10	Bookbinding Services, Custom		
910-39-45	JANITORIAL SERVICES. Contractor Provides labor, tools, equip	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-39	Janitorial/Custodial Services	910-39-45	JANITORIAL SERVICES. THE CONTRACTOR SHALL PROVIDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE SERVICES REQUIRED. THE SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF INDIANAPOLIS SPECS.
910-65	Remodeling and Alterations	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-65	Remodeling and Alterations		
915-02	Advertising (Notice of Bid Solicitation)	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-02	Advertising (Including Notice of Bid Solicitation, Statutory Notices)		
915-03	Advertising/Public Relations	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-03	Advertising/Public Relations (Incl. Skywriting)		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
915-05	Answering/Paging Services	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-05	Answering/Paging Services		
915-24	Cable Television Services (Incluudes Pay-Per-View	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-24	Cable Television Services (Includes Pay-Per-View Services)		
915-28	Electronic Information and Mailing Services	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-28	Electronic Information and Mailing Services		
915-48	Graphic Arts Services (Not Printing)	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-48	Graphic Arts Services (Not Printing)		
915-49	High Volume, Telephone Call Answering Services (Se	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-49	High Volume, Telephone Call Answering Services (See 915-05 for Low Volume Services)		
915-58	Mailing Services (Including Collating, Packaging,	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-58	Mailing Services (Includes, Addressing, Collating, Packaging, Sorting and Delivery)		
915-71	Newspaper and Publication Advertising	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-71	Newspaper and Publication Advertising		
915-73	Public Information Services	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-73	Public Information Services (Incl. Press Releases)		
915-80	Typing and Word Processing	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-80	Typing and Word Processing		
915-82	Video Production	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-82	Video Production		
915-84	Video Recording	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-84	Video Recording		
915-90	Video Tape Duplicating	915	COMMUNICATIONS AND MEDIA RELATED SERVICES	915-90	Video Media Duplicating and Production Services (Including CD ROMs, Tapes, etc.)		
918-04	Accounting/Auditing/Budget Consulting	918	CONSULTING SERVICES	918-04	Accounting/Auditing/Budget Consulting		
918-06	Administrative Consulting	918	CONSULTING SERVICES	918-06	Administrative Consulting		
918-07	Advertising Consulting	918	CONSULTING SERVICES	918-07	Advertising Consulting		
918-15	Architectural Consulting	918	CONSULTING SERVICES	918-15	Architectural Consulting		
918-16	Archeological Consulting	918	CONSULTING SERVICES	918-16	Archeological Consulting		
918-17	Aviation Consulting	918	CONSULTING SERVICES	918-17	Aviation Consulting		
918-19	Buildings, Structures and Components Consulting	918	CONSULTING SERVICES	918-19	Buildings, Structures and Components Consulting		
918-25	COMPLIANCE CONSULTING,AMERICAN DISABILITY AC (ADA)	918	CONSULTING SERVICES	918-25	Compliance Consulting, American Disabilities Act (ADA)		
918-26	Communications: Public Relations Consulting	918	CONSULTING SERVICES	918-26	Communications: Public Relations Consulting		
918-27	Community Development Consulting	918	CONSULTING SERVICES	918-27	Community Development Consulting		
918-28	Computer Hardware Consulting	918	CONSULTING SERVICES	918-28	Computer Hardware Consulting		
918-29	Computer Software Consulting	918	CONSULTING SERVICES	918-29	Computer Software Consulting		
918-31	Construction Consulting	918	CONSULTING SERVICES	918-31	Construction Consulting		
918-37	Economy Consulting	918	CONSULTING SERVICES	918-37	Economy Consulting		
918-38	Education and Training Consulting	918	CONSULTING SERVICES	918-38	Education and Training Consulting		
918-46	Feasibility Studies (Consulting)	918	CONSULTING SERVICES	918-46	Feasibility Studies (Consulting)		
918-49	Finance/Economics Consulting	918	CONSULTING SERVICES	918-49	Finance/Economics Consulting		
918-58	Governmental Consulting	918	CONSULTING SERVICES	918-58	Governmental Consulting		
918-65	Human Relations Consulting	918	CONSULTING SERVICES	918-65	Human Relations Consulting		
918-66	Human Resources Consulting	918	CONSULTING SERVICES	918-66	Human Resources Consulting Services		
918-69	Insurance Consulting	918	CONSULTING SERVICES	918-69	Insurance Consulting		
918-74	Legal Consulting	918	CONSULTING SERVICES	918-74	Legal Consulting		
918-75	Management Consulting	918	CONSULTING SERVICES	918-75	Management Consulting		
918-76	Marketing Consulting	918	CONSULTING SERVICES	918-76	Marketing Consulting		
918-78	Medical Consulting	918	CONSULTING SERVICES	918-78	Medical Consulting		
918-79	Minority and Small Business Consulting	918	CONSULTING SERVICES	918-79	Minority and Small Business Consulting		
918-83	Organizational Development Consulting	918	CONSULTING SERVICES	918-83	Organizational Development Consulting		
918-89	Real Estate/Land Consulting	918	CONSULTING SERVICES	918-89	Real Estate/Land Consulting (Including Land Survey Consulting)		
918-91	Roofing Consultant	918	CONSULTING SERVICES	918-91	Roofing Consultant		
918-93	Security/Safety Consulting	918	CONSULTING SERVICES	918-93	Security/Safety Consulting		
918-94	Traffic Consulting	918	CONSULTING SERVICES	918-94	Traffic Consulting		
918-95	Telecommunications Consulting	918	CONSULTING SERVICES	918-95	Telecommunications Consulting		
918-96	Transportation Consulting	918	CONSULTING SERVICES	918-96	Transportation Consulting		
918-97	Utilities: Gas, Water, Electric Consulting	918	CONSULTING SERVICES	918-97	Utilities: Gas, Water, Electric Consulting		
920-02	Access Services, Data	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-02	Access Services, Data		
920-04	Applications Software (For Main Frame Systems)	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-04	Applications Software (For Main Frame Systems)		
920-07	Applications Software for Microcomputer Systems: B	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-07	Applications Software for Microcomputer Systems: Business, Mathematical/Statistical, Medical, Scientific, etc.		
920-14	Applications Software (For Minicomputer Systems)	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-14	Applications Software (For Minicomputer Systems)		
920-18	Computer Aided Design Services	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-18	Computer Aided Design Services		
920-19	COMPUTER MANAGEMENT	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-19	Computer Digitizing Services		
920-21	Data Entry Services	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-21	Data Entry Services		
920-22	Data Preparation and Processing Services	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-22	Data Preparation and Processing Services (Including Bates Coding)		
920-33	Mapping Services, Digitized (See 962-52 for Standa	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-33	Mapping Services, Digitized, Cartography (See 962-52 for Standard Mapping Services)		
920-34	Media Conversion Services	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-34	Media Conversion Services		
920-37	Networking Services	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-37	Networking Services (Including Installation, Security, and Maintenance)		
920-43	Recharging and Remanufacturing of Printer and Fax	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-43	Recharging and Remanufacturing of Printer and Fax Cartridges		
920-45	Software Maintenance/Support	920	DATA PROCESSING, COMPUTER, PROGRAMMING, AND SOFTWARE SERVICES	920-45	Software Maintenance/Support		
924-64	Partnering Workshop Facilitation Services	924	EDUCATIONAL/TRAINING SERVICES	924-64	Partnering Workshop Facilitation Services		
924-74	Special Education	924	EDUCATIONAL/TRAINING SERVICES	924-74	Special Education		
925-00	Use 92533 ENGINEERING SERVICES, PROFESSIONAL	925	ENGINEERING SERVICES, PROFESSIONAL	925-00			
925-15	Chemical Processing and Storage/Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-15	Chemical Processing and Storage/Engineering		
925-19	Concrete Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-19	Concrete Engineering		
925-21	Corrosion Control; Cathodic Protection; Electrolys	925	ENGINEERING SERVICES, PROFESSIONAL	925-21	Corrosion Control; Cathodic Protection; Electrolysis/Engineering		
925-22	Control Systems Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-22	Control Systems Engineering		
925-23	Dam Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-23	Dam Engineering		
925-28	Drainage Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-28	Drainage Engineering		
925-31	Electrical Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-31	Electrical Engineering (Incl. Cogeneration Design Services)		
925-32	Electronic Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-32	Electronic Engineering		
925-33	ENGINEER SERVICES, PROFESSIONAL	925	ENGINEERING SERVICES, PROFESSIONAL	925-33	Engineer Services, Professional		
925-34	Energy Management Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-34	Energy Management Engineering		
925-39	Fire Protection Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-39	Fire Protection Engineering		
925-41	Forensic Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-41	Forensic Engineering		
925-42	Foundation Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-42	Foundation Engineering		
925-44	General Construction: Management, Scheduling, Cost	925	ENGINEERING SERVICES, PROFESSIONAL	925-44	General Construction: Management, Scheduling, Cost Estimation - Engineering		
925-45	Geological Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-45	Geological Engineering		
925-49	Highways; Streets; Airport Pay-Parking Lots - Engi	925	ENGINEERING SERVICES, PROFESSIONAL	925-49	Highways; Streets; Airport Pay-Parking Lots - Engineering		
925-53	Industrial Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-53	Industrial Engineering		
925-56	Inspecting, Structural/Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-56	Inspecting, Structural/Engineering		
925-57	Instrumentation/Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-57	Instrumentation/Engineering		
925-61	Land Development and Planning/Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-61	Land Development and Planning/Engineering		
925-77	Pollution Control Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-77	Pollution Control Engineering		
925-80	Rate Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-80	Rate Engineering		
925-93	Traffic and Transportation Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-93	Traffic and Transportation Engineering		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
925-96	Waste Water Treatment Engineering	925	ENGINEERING SERVICES, PROFESSIONAL	925-96	Waste Water Treatment Engineering		
925-97	Water Supply, Treatment, and Distribution/Engineer	925	ENGINEERING SERVICES, PROFESSIONAL	925-97	Water Supply, Treatment, and Distribution/Engineering		
926-15	Air Quality Monitoring Services	926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-15	Air Quality Monitoring Services		
928-04	Accessories (Not Otherwise Classified) Maintenance	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-04	Accessories (Not Otherwise Classified) Maintenance and Repair		
928-19	Body and Frame Work (Including Undercoating)	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-19	Body and Frame Work (Including Undercoating)		
928-23	Brake Maintenance and Repair	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-23	Brake Maintenance and Repair		
928-30	Cooling System (A/C System, Hoses, Water Pump, Rad	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-30	Cooling, Heating, and Ventilating System (A/C System, Hoses, Water Pump, Radiator, Heater and Accessories, Ventilation, etc.) Maintenance and Repair		
928-38	Electrical (Alternator/Generator, Battery, Ignitio	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-38	Electrical (Alternator/Generator, Battery, Ignition System, Lights, etc.) Maintenance and Repair		
928-47	General Maintenance, Vehicle (Not Otherwise Classi	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-47	General Maintenance and Repair, Vehicle (Not Otherwise Classified), to Include Oil Changes, Lubrication, Guaranteed Maintenance Programs, etc. (See 928-88 for Tune-Ups)		
928-60	Power Plant (Engine, Belts, Heads, Intake, Rebuild	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-60	Power Plant (Engine, Belts, Heads, Intake, Rebuilding, etc.) Maintenance and Repair		
928-82-51	MOUNTING SERVICES, TIRE	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-82	Tire and Tube Mounting, Repair, Retreading, and Rotation (Including Tire Foam Filling Services)	928-82-51	MOUNTING SERVICES, TIRE
928-85	Transmission (Main, Transfer Case, Chain and Final	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-85	Transmission (Main, Transfer Case, Chain and Final Drives) Maintenance and Repair		
928-88	Tune-ups	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-88	Tune-ups		
928-93	Washing, Waxing, Polishing, Steam Cleaning, Disinf	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-93	Washing, Waxing, Polishing, Steam Cleaning, Disinfecting, etc.		
929-14	Asphalt Pavers Maintenance and Repair	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-14	Asphalt Pavers Maintenance and Repair		
929-15	Asphalt Scarifiers, Milling Machines, Scrapers, et	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-15	Asphalt Scarifiers, Milling Machines, Scrapers, etc., Maintenance and Repair		
929-17	Automotive Shop Equipment Maintenance and Repair	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-17	Automotive Shop Equipment Maintenance and Repair		
929-33	Cranes: Backhoe, Dragline, Clamshell, etc., Mainte	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-33	Cranes: Backhoe, Dragline, Clamshell, etc., Maintenance and Repair		
929-35	Earth Handling, Grading, Moving, and Packing Equip	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-35	Earth Handling, Grading, Moving, and Packing Equipment Maintenance and Repair		
929-41	Engines And Motors, Industrial, Maintenance and Re	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-41	Engines And Motors, Industrial, Maintenance and Repair		
929-48	Machine Shop and Fabricating Services, Industrial	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-48	Machine Shop and Fabricating Services, Industrial (See 928-54 for Automotive Type)		
929-61	Motor Rewinding and Repairing, Electric	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-61	Motor Rewinding and Repairing, Electric		
929-61-33	REBUILD AND REWIND STANDARD T-FRAME ELECTRIC MOTOR	929	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRICULTURAL, CONSTRUCTION, HEAVY INDUSTRIAL, MATERIAL HANDLING, AND ROAD AND HIGHWAY EQUIPMENT	929-61	Motor Rewinding and Repairing, Electric	929-61-33	REBUILD AND REWIND STANDARD T-FRAME ELECTRIC MOTORS - 1800 RPM
938-31	Engineering and Surveying Equipment Maintenance Repair	938	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR HOSPITAL, LABORATORY, AND TESTING EQUIPMENT	938-31	Engineering and Surveying Equipment Maintenance and Repair; Drawing Instruments, etc. (Including Photogrammetry Equipment)		
938-62	Laboratory Equipment and Accessories, Maintenance	938	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR HOSPITAL, LABORATORY, AND TESTING EQUIPMENT	938-62	Laboratory Equipment and Accessories, Maintenance and Repair: For General and Analytical Research Use, Nuclear, Optical, Physical		
938-78	Respiratory Equipment (Including Air Tanks, Breath	938	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR HOSPITAL, LABORATORY, AND TESTING EQUIPMENT	938-78	Respiratory Equipment (Including Air Tanks, Breathers, Masks, etc.) Maintenance and Repair		
939-21	Computers, Data Processing Equipment, Maintenance and Repair	939	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR COMPUTERS, OFFICE, PHOTOGRAPHIC, AND RADIO/TELEVISION EQUIPMENT	939-21	Computers, Data Processing Equipment and Accessories (Not Word Processing Equipment), Maintenance and Repair		
940-85	Tower Construction	940	EQUIPMENT MAINTENANCE, REPAIR, CONSTRUCTION, AND RELATED SERVICES FOR RAILROADS	940-85	Tower Construction		
941-16	Babbiting Services, Industrial Bearing	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-16	Babbiting Services, Industrial Bearing		
941-25	Boiler Maintenance and Repair, Steam (Including Te	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-25	Boiler Maintenance and Repair, Steam (Including Testing Services - See 941-56 for Hydrostatic Testing)		
941-30	Cathodic Protection Services	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-30	Cathodic Protection Services		
941-91	Valve Maintenance and Repair (Control, Fuel Modula	941	EQUIPMENT MAINT, REPAIR, AND RELATED SERVICES FOR POWER GENERATION AND TRANSMISSION EQUIP.	941-91	Valve Maintenance and Repair (Control, Fuel Modulation, etc.)		
946-10	Accounting and Billing Services (Including Payroll	946	FINANCIAL SERVICES	946-10	Accounting and Billing Services (Including Payroll Services, 3rd Party Reimbursement for Medicare, Medicaid, Private Insurance, etc)		
946-12	Actuarial Services and Retirement Planning	946	FINANCIAL SERVICES	946-12	Actuarial Services and Retirement Planning		
946-15	Appraisal Services, Real Estate	946	FINANCIAL SERVICES	946-15	Appraisal Services, Real Estate		
946-20	Auditing	946	FINANCIAL SERVICES	946-20	Auditing		
946-33	Collection Services	946	FINANCIAL SERVICES	946-33	Collection Services, Financial Debt		
946-36	Credit Investigation and Reporting	946	FINANCIAL SERVICES	946-36	Credit Investigation and Reporting		
946-46	Escrow and Title Services	946	FINANCIAL SERVICES	946-46	Escrow and Title Services		
946-48	Financial Advisor	946	FINANCIAL SERVICES	946-48	Financial Advisor		
948-55-84	TESTS, CLINICAL LABORATORY, DRUG SCREENING	948	HEALTH RELATED SERVICES (FOR HUMAN SERVICES SEE CLASS 952)	948-55	Medical and Laboratory Services (Non-Physician)	948-55-84	TESTS, CLINICAL LABORATORY, DRUG SCREENING
948-72	Pharmaceutical Services	948	HEALTH RELATED SERVICES (FOR HUMAN SERVICES SEE CLASS 952)	948-72	Pharmaceutical Services		
948-80	Radiation Control and Leak Detection Services	948	HEALTH RELATED SERVICES (FOR HUMAN SERVICES SEE CLASS 952)	948-80	Radiation Control and Leak Detection Services		
948-86	Therapy	948	HEALTH RELATED SERVICES (FOR HUMAN SERVICES SEE CLASS 952)	948-86	Therapy and Rehabilitation Services		
952-06	Alcohol and Drug Prevention	952	HUMAN SERVICES	952-06	Alcohol and Drug Prevention		
952-07	Alcohol and Drug Testing Services	952	HUMAN SERVICES	952-07	Alcohol and Drug Testing Services		
952-15	Case Management	952	HUMAN SERVICES	952-15	Case Management		
952-21	Counseling	952	HUMAN SERVICES	952-21	Counseling		
952-38	Employee Assistance Programs (Including Unemployme	952	HUMAN SERVICES	952-38	Employee Assistance Programs (Including Unemployment Compensation Administration Services)		
952-61	Law Enforcement - Community Relations Services	952	HUMAN SERVICES	952-61	Law Enforcement - Community Relations Services (Incl. Victim Notification Services)		
952-78	Safe Housing	952	HUMAN SERVICES	952-78	Safe Housing		
952-85	Support Services	952	HUMAN SERVICES	952-85	Support Services		
952-90	Training and Instruction (For Clients, Not Staff)	952	HUMAN SERVICES	952-90	Training and Instruction (For Clients, Not Staff)		
953-22	Boiler Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-22	Boiler		
953-33	Comprehensive, Automotive Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-33	Comprehensive, Automotive		
953-43	Fire Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-43	Fire		
953-54	Liability, Automotive Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-54	Liability, Automotive		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
953-60	Liability, Public Official/Government	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-60	Liability, Public Official/Government		
953-77-58	INSURANCE, COMMERCIAL PROPERTY	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-77	Property and Casualty	953-77-58	INSURANCE, COMMERCIAL PROPERTY
953-87	Title Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-87	Title		
953-92	Worker's Compensation Insurance	953	INSURANCE AND INSURANCE SERVICES, (ALL TYPES)	953-92	Worker's Compensation		
956-05	Business Research Services	956	LIBRARY AND SUBSCRIPTION SERVICES (INCLUDES RESEARCH SERVICES, INTERNET AND PERIODICAL SUBSCRIPTIONS)	956-05	Business Research Services		
956-70	Research Services (Other Than Business)	956	LIBRARY AND SUBSCRIPTION SERVICES (INCLUDES RESEARCH SERVICES, INTERNET AND PERIODICAL SUBSCRIPTIONS)	956-70	Research Services (Other Than Business)		
958-78	Property Management Services	958	MANAGEMENT SERVICES	958-78	Property Management Services		
961-04	Artists	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-04	Artists (Including Digital Artists)		
961-14	Commissioning of Facilities Services (Functional & Prefuncti	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-14	Commissioning of Facilities Services (Functional and Prefunctional]		
961-15	Concessions, Catering, Vending: Mobile and Station	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-15	Concessions, Catering, Vending: Mobile and Stationary (See Class 905 for Airport Concessions		
961-20	CORRECTIONAL FACILITY MANAGEMENT SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-20	Customer Service Evaluation Services		
961-21	Cost Estimating	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-21	Cost Estimating		
961-24	Court Reporting Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-24	Court Reporting Services		
961-29	Economic Impact Studies	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-29	Economic Impact Studies		
961-30	Employment Agency and Search Firm Services (Includ	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-30	Employment Agency and Search Firm Services (Including Background Investigations and Drug Testing for Employment)		
961-30-18	TEMPORARY SERVICES FOR THE EMPLOYMENT OF CLERKS, DATA ENTRY	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-30	Employment Agency and Search Firm Services (Including Background Investigations and Drug Testing for Employment)	961-30-18	
961-30-70	TEMPORARY SERVICES FOR THE EMPLOYMENT OF RESEARCH ASSISTANTS	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-30	Employment Agency and Search Firm Services (Including Background Investigations and Drug Testing for Employment)	961-30-70	
961-30-76	TEMPORARY SERVICES FOR THE EMPLOYMENT OF SECRETARY/RECEPTION	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-30	Employment Agency and Search Firm Services (Including Background Investigations and Drug Testing for Employment)	961-30-76	
961-39	Floral Designing and Arranging Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-39	Floral Designing and Arranging Services		
961-41	SERVICES NOT OTHERWISE CLASSIFIED	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-41	Global Positioning Systems Surveying Services		
961-49	Legal Services, Attorneys	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-49	Legal Services, Attorneys		
961-50	Legal Services Including Depositions and Expert Wi	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-50	Legal Services Including Depositions and Expert Witness Testimony		
961-51	Lobby Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-51	Lobby Services		
961-53	Marketing Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-53	Marketing Services (Incl. Distribution, Research, Sales Promotions, etc.)		
961-60	Public Opinion Surveys	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-60	Public Opinion Surveys		
961-64	Real Estate Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-64	Satellite Global Information Positioning System Services		
961-70	Sugar Refining Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-70	Sugar Refining Services		
961-74	TRANSIT MANAGEMENT AND OPERATIONS SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-74	Scientist Services (Geology, Geophysics, etc)		
961-75	Translation Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-75	Translation Services		
961-78	Travel Agency, Chartering, and Tour Guide Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-78	Travel Agency Services		
961-79	TRAVEL PROGRAM MANAGEMENT SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-79	Trade Services (Facilitation, Information, Marketing, Promotion, etc.)		
961-89	Weatherization Audit Services	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-89	Weatherization Audit Services		
961-94	Zoning, Land Use Studies	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-94	Zoning, Land Use Studies		
962-14	Blue Printing Services: Blue Prints, Blue Line, La	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-14	Blue Printing Services: Blue Prints, Blue Line, Large Engineering		
962-17	Bus and Taxi Services, Limousines and Vans (Includ	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-17	Bus and Taxi Services, Limousines and Vans (Including Operations, Management, and Terminal Services)		
962-21	Cleaning Services, Steam and Pressure	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-21	Cleaning Services, Steam and Pressure		
962-22	Chemical Laboratory Services	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-22	Chemical Laboratory Services		
962-33	Engraving Services; Awards, Trophies, Etc.	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-33	Engraving Services; Awards, Trophies, Etc. (See 966-28 for Printing Type]		
962-38	Galvanizing, Hot and Cold Dip; Plating	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-38	Galvanizing, Hot and Cold Dip; Plating		
962-46	Installation Services (Not Otherwise Classified)	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-46	Installation and Removal Services (Not Otherwise Classified)		
962-52	Mapping Services (See 920-33 for Digitized Mapping	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-52	Mapping Services (Including Cartography and Surveying Services, Not Aerial)(See 920-33 for Digitized Mapping Services) and 905-10 for Aerial Mapping and Survey Services)		
962-58	OIL REMOVAL SERVICES, USED (TO INCLUDE OIL AND PETROLEUM SPI	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-58	Professional Services (Not Otherwise Classified)		
962-59	Parking Services: Operation, Admission, Supervisio	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-59	Processing Services, Food (Not Otherwise Classified in Classes 961 or 962]		
962-64	Packaging and Wrapping Services, Shrink	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-64	Packaging and Wrapping Services (Incl. Shrink Wrapping)		
962-85	Tinting And Coating Services, Glass (Automobile an	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-85	Tinting And Coating Services, Glass (Automobile and Building)		
962-86	Transportation of Goods (Freight)	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-86	Transportation of Goods and Other Freight Services		
962-88	Travel, Non-Local (Scheduled and Unscheduled), Pro	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-88	Travel, Non-Local (Scheduled and Unscheduled), Provided by Third Party (Incl. Commercial Airplane Travel and Helicopter Services)		
962-94	Water Services, Bottled	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-94	Water Services, Bottled and Bulk Delivery (Tanker Services)		
965-15	Artwork, Camera Ready	965	PRINTING PREPARATIONS: ETCHING, PHOTOENGRAVING, AND PREPARATION OF MATS, NEGATIVES AND PLATES	965-15	Artwork, Camera Ready		
965-46	Graphic Design Services for Printing	965	PRINTING PREPARATIONS: ETCHING, PHOTOENGRAVING, AND PREPARATION OF MATS, NEGATIVES AND PLATES	965-46	Graphic Design Services for Printing		
966-07	Business Cards Printed	966	PRINTING AND TYPESETTING SERVICES	966-07	Business Cards Printed		
966-11	Card Printing: Tab, Post, Form, etc.	966	PRINTING AND TYPESETTING SERVICES	966-11	Card Printing: Tab, Post, Form, etc.		
966-18	Copying Services (Reproduction)	966	PRINTING AND TYPESETTING SERVICES	966-18	Copying Services (Reproduction)		
966-31	Envelope Printing	966	PRINTING AND TYPESETTING SERVICES	966-31	Envelope Printing		
966-36	Forms Printing (Not Continuous)	966	PRINTING AND TYPESETTING SERVICES	966-36	Forms Printing (Not Continuous)		
966-36-83	FORMS, TRANSPORTATION PERMIT AND APPLICATION	966	PRINTING AND TYPESETTING SERVICES	966-36	Forms Printing (Not Continuous)	966-36-83	TRANSPORTATION PERMIT AND APPLICATION FORMS, TEXAS DEPT. OF TRANSPORTATION
966-57	Offset Printing, General, Small Press Work (Quan.	966	PRINTING AND TYPESETTING SERVICES	966-57	Offset Printing, General, Small Press Work (Quan. up to 25,000), One or More Colors, No 4 Color Processes or Large Solids or Close Registration; up to 11 x 17 In.: Brochures, Newsletters, Covers, Posters, etc.		
966-58	Offset Printing, General, Large Press Work (Quan.	966	PRINTING AND TYPESETTING SERVICES	966-58	Offset Printing, General, Large Press Work (Quan. up to 100,000); One or More Colors, No 4 Color Processes or Close Registration Required, Finished Sizes May Exceed 11 x 17 In., May Have Large Solids		
966-59	Offset Printing, General, Large Production Runs on	966	PRINTING AND TYPESETTING SERVICES	966-59	Offset Printing, General, Large Production Runs on Large or Web Press (Quan. Over 100,000), One or More Colors, No 4 Color Processes or Close Registration Required, May Exceed 11 x 17 In. and Have Large Solids		
966-60-23	BROCHURES, INFORMATION	966	PRINTING AND TYPESETTING SERVICES	966-60	Offset Printing, Large Production Runs (Quan. up to 100,000); 4 Color Process or Close Registration Required: Color Brochures, Maps, etc.	966-60-23	BROCHURES, INFORMATION
966-62-20	PRINTING OF BOOKS, CATALOGS, PAMPHLETS, ETC.	966	PRINTING AND TYPESETTING SERVICES	966-62	Offset Printing, Booklets, Saddle Stitch Binding (Quan. Under 100,000): Books and Magazine:	966-62-20	PRINTING OF BOOKS, CATALOGS, PAMPHLETS, ETC.
966-70	Optical Scanning Form Printing	966	PRINTING AND TYPESETTING SERVICES	966-70	Optical Scanning Form Printing		
968-25	Corrosion Control Services	968	PUBLIC WORKS AND RELATED SERVICES	968-25	Corrosion Control Services		
968-90	Vehicle Towing and Storage	968	PUBLIC WORKS AND RELATED SERVICES	968-90	Vehicle Towing and Storage		
971-30	Hotel/Motel Accomodations	971	REAL PROPERTY RENTAL OR LEASE	971-30	Hotel/Motel Accommodations (Incl. Lodges, Resorts, Bed/Breakfast Inns, etc.) Rental or Lease		
988-56	Litter Removal Services (Including Beach Cleaning)	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-56	Litter Removal Services (Including Beach Cleaning) (For Buildings See 910-27)		
990-22	Card Access Security Services	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY]	990-22	Card Access Security Services		

Item 4d.

NIGP CODE	AUSTIN DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
990-77	Safety Training and Awareness Services (Highway Sa	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY)	990-77	Safety Training and Awareness Services (Including Highway Safety, Boating, Seat Belt, CPR and AED Training)		
990-80	Surveillance Services	990	SECURITY, FIRE, SAFETY, AND EMERGENCY SERVICES (INCLUDING DISASTER DOCUMENT RECOVERY]	990-80	Surveillance Services		
998-18	Books, All Types (Library, School, etc.), Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-18	Books, All Types (Library, School, etc.), Sale of Surplus and Obsolete Items		
998-21	Cafeteria and Kitchen Equipment, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-21	Cafeteria and Kitchen Equipment (Including Food Service Equipment), Sale of Surplus and Obsolete Items		
998-28	Communication Equipment (Incl Radio, TV) Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-28	Communication Equipment (Including Radio, Television, Telephone, VCR, Video/Audio Equipment, etc.), Sale of Surplus and Obsolete Items		
998-29	Computers, Parts and Supplies, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-29	Computers, Parts and Supplies, Sale of Surplus and Obsolete Items		
998-37	Electrical Supplies, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-37	Electrical Equipment and Supplies, Sale of Surplus and Obsolete Items		
998-47	Glass, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-47	Glass, Sale of Surplus and Obsolete Items		
998-50	Hardware, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-50	Hardware, Sale of Surplus and Obsolete Items		
998-52	Heating, Air Conditioning, Ventilating, Refrig, Sale of Surp	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-52	Heating, Air Conditioning, Ventilating & Refrigeration Equipment, Sale of Surplus and Obsolete Items		
998-63	Lumber, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-63	Lumber and Pilings, Sale of Surplus and Obsolete Items		
998-67	Medical and Dental Equipment and Supplies, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-67	Medical and Dental Equipment and Supplies, Sale of Surplus and Obsolete Items		
998-72	Office Equipment, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-72	Office Equipment (Not Copiers), Sale of Surplus and Obsolete Items		
998-79	Pipe, Valves and Fittings, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-79	Pipe, Valves and Fittings, Sale of Surplus and Obsolete Items		
998-84	Real Estate, Sale of Surplus	998	SALE OF SURPLUS AND OBSOLETE ITEMS	998-84	Real Estate (Incl. Buildings, Houses, Land, etc), Sale of Surplus and Obsolete Items, Sale of Surplus and Obsolete Items		
928-47-49	MAINTENANCE SERVICES, VEHICLE (MISC)	928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-47	General Maintenance and Repair, Vehicle (Not Otherwise Classified), to Include Oil Changes, Lubrication, Guaranteed Maintenance Programs, etc. (See 928-88 for Tune-Ups)	928-47-49	MAINTENANCE SERVICES, VEHICLE (MISC)

3. NON-REGISTERED NIGP CODES

6/16/2014

Commodity Code Crosswalk - CSI to NIGP

AUSTIN CODE	AUSTIN NIGP DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFES	907	ARCHITECTURAL AND ENGINEERING SERVICES, NON-PROFESSIONAL				
915		915	COMMUNICATIONS AND MEDIA RELATED SERVICES				
988		988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES				
020-50		020	AGRICULTURAL EQUIPMENT, IMPLEMENTS, AND ACCESSORIES (SEE CLASS 022 FOR PARTS)	020-50			
037-39	EDUCATIONAL GAMES (EXCEPT ELECTRONIC)	037	AMUSEMENT, DECORATIONS, ENTERTAINMENT, GIFTS, TOYS, ETC.	037-39			
037-84	Toys and Games (Not Educational Type)	037	AMUSEMENT, DECORATIONS, ENTERTAINMENT, GIFTS, TOYS, ETC.	037-84	Toys and Games (Not Educational Type)(See 208-47; 209-48; 785-53; and 805-51 for other type games) (Incl. Children's Coloring Books and Activity Items)		
051-20		051		051-20			
060-17	TIRES, TUBES, LINERS & VALVES	060	AUTOMOTIVE AND TRAILER EQUIPMENT AND PARTS	060-17			
060-51	GENERAL ACCESSORIES	060	AUTOMOTIVE AND TRAILER EQUIPMENT AND PARTS	060-51			
060-99	COMMODITIES NOT OTHERWISE CLASSIFIED	060	AUTOMOTIVE AND TRAILER EQUIPMENT AND PARTS	060-99			
101-40-10	ADHESIVE, INSULATION	101		101-40		101-40-10	
102-00		102		102-00			
125-31		125	BOOKBINDING SUPPLIES	125-31			
150-36-00 *	Hatch Covers, Attic	150	BUILDER'S SUPPLIES	150-36	Hatch Covers, Attic	150-36-00	
151-01-24		151		151-01		151-01-24	
200-21	CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHER AND WORK	200	CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHER AND WORK RELATED	200-21			
200-72	CLOTHING: TROUSERS, SUPV AND UNIFORM	200	CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHER AND WORK RELATED	200-72			
200-72-73	SHIRTS, SHORT SLEEVE, DRESS UNIFORM, FEMALE, 100%	200	CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHER AND WORK RELATED	200-72		200-72-73	
200-84	CLOTHING: TROUSERS, WORK	200	CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHER AND WORK RELATED	200-84			
208-82-01	GIS SOFTWARE PRE-PACKAGED	208	COMPUTER SOFTWARE FOR MICROCOMPUTERS, SYSTEMS, INCLUDING CLOUD-BASED (PREPROGRAMMED)	208-82	Scientific, Statistical, Engineering, Mathematical, and Mapping Software (Including Photogrammetry)	208-82-01	
212-23		212		212-23			
312-54-50 *	CONTROLS AND PARTS, JOHNSON HVAC (JOHNSON OR EQUAL	312	ENVIRONMENTAL PROTECTIVE EQUIPMENT (INSIDE AND OUTSIDE)	312-54		312-54-50	
615-99-01	OFFICE SUPPLIES PER PRICE AGREEMENT	615	OFFICE SUPPLIES, GENERAL	615-99		615-99-01	
712-23-76		712		712-23		712-23-76	
714-30		714		714-30			
714-38		714		714-38			
725-23-48	CABLE, FIBER OPTIC, MULTIMODE	725	RADIO COMMUNICATION, TELEPHONE, AND TELECOMMUNICATION EQUIPMENT, ACCESSORIES, AND SUPPLIES (SEE CLASS 840 FOR TELEVISION EQUIPMENT) (EFFECTIVE 3-1-07 THIS CLASS INACTIVATED FOR NEW USE. REFER TO CLASSES, 726, 838 AND 839)	725-23	Fiber Optics Cables, Interconnecting Components, and Accessories (Including Wiring Systems Tools and Supplies) (EFFECTIVE 3-1-07 THIS CLASS-ITEM INACTIVATED FOR NEW USE, REFER TO 838-29)	725-23-48	
750-56-65	RIVER ROCK	750	ROAD AND HIGHWAY BUILDING MATERIALS (NOT ASPHALTIC)	750-56	Lightweight Aggregate, All Types	750-56-65	
805-12	ATHLETIC APPAREL: AWARD JACKETS, JERSEYS, SHOES, S	805	SPORTING GOODS, ATHLETIC EQUIPMENT AND ATHLETIC FACILITY EQUIPMENT	805-12			
823-00		823		823-00			
890-45-15	ACCESSORIES, WATER METER	890	WATER SUPPLY, GROUNDWATER, SEWAGE TREATMENT, AND RELATED EQUIPMENT (NOT FOR AIR CONDITIONING, STEAM BOILER, OR LABORATORY REAGENT WATER)	890-45	Meter Fittings, Water, Accessories, Parts, and Conversion Kits	890-45-15	
901-65		901		901-65			
902-16		902		902-16			
906-20	Use 90728 COMMUNICATIONS SYSTEMS; TV; MI	906	ARCHITECTURAL SERVICES, PROFESSIONAL	906-20			
909-21	Building Construction, Industrial (Warehouse, etc.)	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-21	Building Construction, Industrial (Warehouse, etc.)		
909-22	Building Construction, Non-Residential (Office Bldg, etc)	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-22	Building Construction, Non-Residential (Office Bldg., etc.)		
909-23	Building Construction, Residential (Apartments, etc.)	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-23	Building Construction, Residential (Apartments, etc.)		
909-24	Building Construction, Commercial and Institutional	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-24	Building Construction, Commercial and Institutional		
909-78	Use 90980 SPECIAL EQUIPMENT: BANK VAULTS, DARKROOMS, FOOD	909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)	909-78			
910-09-99	Use 9100945 CARPET INSTALLATION	910	BUILDING MAINTENANCE, INSTALLATION AND REPAIR SERVICES	910-09	Carpet Cleaning, Dyeing, Installation and Repair	910-09-99	
912-32-47	LUMINAIRES, FLUORESCENT. THIS ITEM SHALL CONSIST OF FURNISHI	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-32	Construction, Street Lighting	912-32-47	
912-48		912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-48			
912-68	MANAGEMENT, CONSTRUCTION	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-68	Monitoring Services, Structural		
912-68-97	MANAGEMENT, CONSTRUCTION - INDUSTRIAL	912	CONSTRUCTION SERVICES, GENERAL (INCL. MAINTENANCE AND REPAIR SERVICES)	912-68	Monitoring Services, Structural	912-68-97	
913-96-40	EPOXY CRACK SEALING AND MORTAR REPAIRS	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-96	Paving/Resurfacing, Street (Major and Residential)	913-96-40	
913-96-86	VAULT, WATER METER. THIS WORK SHALL CONSIST OF THE	913	CONSTRUCTION SERVICES, HEAVY (INCL. MAINTENANCE AND REPAIR SERVICES)	913-96	Paving/Resurfacing, Street (Major and Residential)	913-96-86	
914-76		914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-76			
914-85-CI	WELDING - STRUCTURAL (AWS CERTIFIED) INDUSTRIAL	914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-85	Welding	914-85-CI	
914-85-SS	WELDING - SOLDERING SERVICES	914	CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)	914-85	Welding	914-85-SS	
918-37-ED	ECONOMIC DEVELOPMENT SERVICES	918	CONSULTING SERVICES	918-37	Economy Consulting	918-37-ED	
918-42	Engineering Consulting	918	CONSULTING SERVICES	918-42	Engineering Consulting		
918-84		918	CONSULTING SERVICES	918-84	Parking Consultant		
918-93-CS	CONSTRUCTION SAFETY CONSULTING	918	CONSULTING SERVICES	918-93	Security/Safety Consulting	918-93-CS	
918-98	Use 91892 or 90664 URBAN PLANNING	918	CONSULTING SERVICES	918-98			
921-28	Use 90728 - COMMUNICATIONS SYSTEMS; TV; MI	921		921-28			
921-35	Use 90735 DESIGNING SERVICES	921		921-35			
921-38	Use 90738 DRAFTING SERVICES	921		921-38			
921-42	Use 90742 GEOTECHNICAL - SOILS	921		921-42			
921-79	Use 90779 Or 96877 SURVEY SVS (NOT AERIAL OR RESEARCH)	921		921-79			
921-83	Use 90783 TESTING SERVICES (A&E Non Prof)	921		921-83			
925-18	COMMUNICATIONS	925	ENGINEERING SERVICES, PROFESSIONAL	925-18			
925-25	DESIGNING	925	ENGINEERING SERVICES, PROFESSIONAL	925-25			
925-85	Use 90772 SAFETY ENGINEERING & ACCIDENT	925	ENGINEERING SERVICES, PROFESSIONAL	925-85			
926-39		926	ENVIRONMENTAL AND ECOLOGICAL SERVICES	926-39			
928-14		928	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AUTOMOBILES, TRUCKS, TRAILERS, TRANSIT BUSES AND OTHER VEHICLES	928-14			
934-32	GLAZING SERVICES	934	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR LAUNDRY, LAWN, PAINTING, PLUMBING, AND SPRAYING EQUIPMENT	934-32			

Item 4d.

AUSTIN CODE	AUSTIN NIGP DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
936-08	Air Compressors and Accessories, Maintenance and R	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-08	Air Compressors and Accessories, Maintenance and Repair		
936-63	Pumps, Vertical, Maintenance and Repair	936	EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENERAL EQUIPMENT	936-63	Pumps, Vertical, Maintenance and Repair		
948-42	Health Care Management	948	HEALTH RELATED SERVICES (FOR HUMAN SERVICES SEE CLASS 952)	948-42			
961-01	ARBORIST, PROFESSIONAL SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-01	Archeological Services (Other than Consulting)		
961-02-PF	GROUP PROCESS FACILITATOR SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-02	Administrative Services, All Kinds (Incl. Clerical, Secretarial Services, etc.)	961-02-PF	
961-08	BUILDING MANAGEMENT & OPERATIONS SERVICES	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-08			
961-08-53	MANAGEMENT & OPERATIONS SERVICES, BUILDING	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-08		961-08-53	
961-19	CONSERVATION AND RESOURCE MANAGEMENT	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-19			
961-30-99	EMPLOYMENT SCREENINGS FOR CRIMINAL HISTORY	961	MISCELLANEOUS SERVICES, NO. 1 (NOT OTHERWISE CLASSIFIED)	961-30	Employment Agency and Search Firm Services (Including Background Investigations and Drug Testing for Employment)	961-30-99	
962-16-66 *	PIER DRILLING	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-16	Bus Transportation Services, School	962-16-66	
962-39-98	HAULING, LIQUID BASE MATERIALS (OIL, WATER, ETC.)	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-39	Hauling Services	962-39-98	
962-39-99	HAULING, ASBESTOS	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-39	Hauling Services	962-39-99	
962-40	Food Distribution Services	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-40	Food Distribution Services		
962-40-96	HAZARDOUS MATERIAL - TRANSPORTATION & DISPOSAL SER	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-40	Food Distribution Services	962-40-96	
962-40-98	HAZARDOUS MATERIAL - REMEDIATION OF CONTAMINATED SITES	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-40	Food Distribution Services	962-40-98	
962-70	RECYCLING SERVICES, (INCLUDING COLLECTION)	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-70	Removal and Pickup of Dead Bodies		
962-86-96	TRANSPORTATION OF GOODS, HIGHWAY, HEAVY AND UTILIT	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-86	Transportation of Goods and Other Freight Services	962-86-96	
962-86-97	TRANSPORTATION OF GOODS, INDUSTRIAL FREIGHT	962	MISCELLANEOUS SERVICES, NO. 2 (NOT OTHERWISE CLASSIFIED)	962-86	Transportation of Goods and Other Freight Services	962-86-97	
964-03	ACCOUNTING, AUDITING, BOOKKEEPING PERSONNEL	964		964-03			
964-04	ADMINISTRATORS/MANAGERS	964		964-04			
964-26	COMPUTER PROGRAMMING PERSONNEL	964		964-26			
964-30	COMPUTER TECHNICIAN, OPERATOR AND DATA ENTRY PERSO	964		964-30			
964-35	ELECTRICIANS	964		964-35			
964-37	ENGINEERS (NON-LICENSED) AND OTHER TECHNICAL PERSO	964		964-37			
964-45	GENERAL CONSTRUCTION WORKERS AND HEAVY EQUIPMENT O	964		964-45			
964-46	GEOLOGIST, PERSONNEL, TEMPORARY	964		964-46			
964-57	JANITORS, PERSONNEL, TEMPORARY	964		964-57			
964-59	LABORERS (COMMON LABOR), PERSONNEL, TEMPORARY	964		964-59			
964-60	LAND SURVEYING, PERSONNEL, TEMPORARY	964		964-60			
964-64	MUSICIANS, PERSONNEL, TEMPORARY	964		964-64			
964-69	PAINTERS, PERSONNEL, TEMPORARY	964		964-69			
964-71	PLUMBERS, PERSONNEL, TEMPORARY	964		964-71			
964-78	SECRETARIAL AND CLERICAL PERSONNEL (INCLUDING COUR	964		964-78			
964-80	SECURITY GUARDS	964		964-80			
964-82	SHEET METAL FABRICATORS AND IRON WORKERS	964		964-82			
964-84	SPEAKERS/ENTERTAINERS/TRAINERS	964		964-84			
964-93	WELDERS	964		964-93			
965-67		965	PRINTING PREPARATIONS: ETCHING, PHOTOENGRAVING, AND PREPARATION OF MATS, NEGATIVES AND PLATES	965-67			
966-52		966	PRINTING AND TYPESETTING SERVICES	966-52	Licenses and Back Tags Printing Services (Hunting, Fishing, etc.)		
968-42	GRAFFITI REMOVAL SERVICES	968	PUBLIC WORKS AND RELATED SERVICES	968-42			
968-47-01	INSPECTION SERVICES, HAZARDOUS ENVIRONMENT	968	PUBLIC WORKS AND RELATED SERVICES	968-47	Inspection Services, Construction Type	968-47-01	
968-79-77	UTILITY POLE PULLING AND REMOVAL	968	PUBLIC WORKS AND RELATED SERVICES	968-79	Telephone (Utility, Light) Pole Installation, and Relocation Service	968-79-77	
971-60	PROPERTY MANAGEMENT SERVICES	971	REAL PROPERTY RENTAL OR LEASE	971-60			
971-70	Storage Space Rental	971	REAL PROPERTY RENTAL OR LEASE	971-70	Storage Space Rental or Lease		
975-24	Construction Equipment (Not Otherwise Classified), Rental	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-24	Construction Equipment (Not Otherwise Classified) Rental or Lease		
975-26	Crane Rental or Lease	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-26	Cranes and Buckets Rental or Lease		
975-34	Earth Moving Equipment (Graders, Dozers, Loaders) Rental	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-34	Earth Moving Equipment (Graders, Dozers, Loaders, etc.) Rental or Lease		
975-37	Garbage/Refuse Equipment (Dumpsters, etc.) Rental	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-37	Garbage/Refuse Equipment (Dumpsters, etc.) Rental or Lease		
975-42	Machinery and Heavy Hardware Rental or Lease	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-42	Machinery and Heavy Hardware Rental or Lease		
975-44	Mass Transit Bus and Rail Vehicle Rental or Lease	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-44	Mass Transit Bus, School Bus, and Rail Vehicle Rental or Lease		
975-46	Material Handling Equipment and Allied Item Rental	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-46	Material Handling Equipment and Allied Item Rental or Lease		
975-66	Road and Highway Equipment (Not Otherwise) Rental	975	RENTAL OR LEASE SERVICES OF AGRICULTURAL, AIRCRAFT, AIRPORT, AUTOMOTIVE, MARINE, AND HEAVY EQUIPMENT	975-66	Road and Highway Equipment (Not Otherwise Classified) Rental or Lease		
977-63	Scaffolding Rental or Lease	977	RENTAL OR LEASE SERVICES OF APPLIANCES, CAFETERIA, FILM, FURNITURE, HARDWARE, MUSICAL, SEWING, AND WINDOW AND FLOOR COVERINGS	977-63	Scaffolding and Ladders Rental or Lease		
977-73-60	RENTAL OF PORTABLE TOILETS (REGULAR AND HANDICAP A	977	RENTAL OR LEASE SERVICES OF APPLIANCES, CAFETERIA, FILM, FURNITURE, HARDWARE, MUSICAL, SEWING, AND WINDOW AND FLOOR COVERINGS	977-73	Toilets and Showers, Portable, Rental or Lease	977-73-60	RENTAL OF PORTABLE TOILETS (REGULAR AND HANDICAP ACCESSIBLE) TO INCLUDE DELIVERY AND SET-UP AT SPECIFIC LOCATIONS
979-35	Engineering Equipment and Supplies Rental or Lease	979	RENTAL OR LEASE SERVICES OF ENGINEERING, HOSPITAL, LABORATORY, PRECISION INSTRUMENTS, REFRIGERATION, SCALES, AND TESTING EQUIPMENT	979-35	Engineering Equipment and Supplies Rental or Lease		
981-11	Air Compressors and Accessories Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-11	Air Compressors and Accessories Rental or Lease		
981-12	Air Conditioning Equipment and Accessories Rental	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-12	Air Conditioning Equipment and Accessories Rental or Lease		
981-30	Electrical Equipment and Supply Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-30	Electrical Equipment and Supply Rental or Lease		
981-36	Fencing Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-36	Fencing Rental or Lease		
981-38	Fire Protection Systems and Supplies Rental or Lea	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-38	Fire Protection Systems and Supplies Rental or Lease		

AUSTIN CODE	AUSTIN NIGP DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
981-49	Irrigation Systems Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-49	Irrigation Systems Rental or Lease (See 975-08 for Farm Type)		
981-57	Pumps and Pump Accessory Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-57	Pumps and Pump Accessory Rental or Lease		
981-76	Traffic Control Equipment and Accessories Rental o	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-76	Traffic Control Equipment and Accessories Rental or Lease		
981-83	Washers, Pressure (All Types), Rental or Lease	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-83	Washers, Pressure (All Types), Rental or Lease		
981-84	Water and Sewer Equipment (Including Well Pointing	981	RENTAL OR LEASE OF GENERAL EQUIPMENT (HVAC, ATHLETIC, FIRE AND POLICE PROTECTION, ETC.)	981-84	Water and Sewer Equipment (Including Well Pointing Equipment) Rental or Lease		
983-86	Uniform Rental or Lease	983	RENTAL OR LEASE SERVICES OF CLOTHING, JANITORIAL, LAUNDRY, LAWN, PAINTING, SPRAYING, LABORATORY AND TEXTILE EQUIPMENT	983-86	Uniform Rental or Lease		
984-19	Communication Boards, Control Units, Modems, Processor, Rent	984	RENTAL OR LEASE SERVICES OF COMPUTERS, DATA PROCESSING, AND WORD PROCESSING EQUIPMENT	984-19	Communication Boards, Control Units, Modems, Processors and Protocol Converters, etc., Rental or Lease		
984-26	Computers, Mini and Mainframe, Rental or Lease	984	RENTAL OR LEASE SERVICES OF COMPUTERS, DATA PROCESSING, AND WORD PROCESSING EQUIPMENT	984-26	Computers, Mini and Mainframe, Rental or Lease		
984-30	Computer Accessories (Not Otherwise Classified) Rental	984	RENTAL OR LEASE SERVICES OF COMPUTERS, DATA PROCESSING, AND WORD PROCESSING EQUIPMENT	984-30	Computer Accessories (Not Otherwise Classified) Rental or Lease: CRT Holders, Forms Tractors, Wrist Supports, etc.		
985-12	Audio/Video Equipment and Accessory Rental or Leas	985	RENTAL OR LEASE SERVICES OF OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/TELEVISION/TELEPHONE EQUIPMENT	985-12	Audio/Video Equipment and Accessory Rental or Lease		
985-26	Copy Machine (Including Cost-Per-Copy Type Leases)	985	RENTAL OR LEASE SERVICES OF OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/TELEVISION/TELEPHONE EQUIPMENT	985-26	Copy Machine, Plain Paper Type (Including Cost-Per-Copy Type Leases) Rental or Lease		
985-59	Office Machines, Equipment, and Accessories, Rental/Lease	985	RENTAL OR LEASE SERVICES OF OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/TELEVISION/TELEPHONE EQUIPMENT	985-59	Office Machines, Equipment, and Accessories Rental or Lease (Not Otherwise Classified)		
985-69	Radio and Telecommunications Equipment and Accs. Rental	985	RENTAL OR LEASE SERVICES OF OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/TELEVISION/TELEPHONE EQUIPMENT	985-69	Radio and Telecommunications Equipment and Accessory Rental or Lease (Including Radio Towers)		
985-77	Telephone Systems and Portable Phones, Rental or Lease	985	RENTAL OR LEASE SERVICES OF OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/TELEVISION/TELEPHONE EQUIPMENT	985-77	Telephone Systems and Portable Phones (Including Pagers) Rental or Lease		
988-15-28	FENCE, BARBED WIRE. THIS WORK SHALL CONSIST OF CON	985	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-15	Fence Installation, Maintenance and Repair	988-15-28	FENCE, BARBED WIRE. THIS WORK SHALL CONSIST OF CONSTRUCTING A BARBED WIRE FENCE SUPPORTED ON EITHER WOOD OR METAL POSTS INCLUDING GATES AND ACCESSORIES. IT SHALL ALSO INCLUDE ALL EXCAVATION AND BACK FILLING EXCEPT ROCK EXCAVATION.
988-15-30	FENCE, CHAIN LINK. THIS WORK SHALL CONSIST OF CONS	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-15	Fence Installation, Maintenance and Repair	988-15-30	FENCE, CHAIN LINK. THIS WORK SHALL CONSIST OF CONSTRUCTING A CHAIN LINK FENCE. IT ALSO INCLUDES ALL EXCAVATION, FURNISHING ALL MATERIALS AND INSTALLING THE COMPLETE FENCE EXCEPT GATE POSTS, GATES AND FITTINGS.
988-15-31	GATES, CHAIN LINK FENCE. THIS WORK SHALL INCLUDE F	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-15	Fence Installation, Maintenance and Repair	988-15-31	GATES, CHAIN LINK FENCE. THIS WORK SHALL INCLUDE FURNISHING ALL MATERIALS AND INSTALLING THE COMPLETE GATES INCLUDING THE GATE POSTS AND FITTINGS AND ACCESSORIES.
988-41	IRRIGATION SYSTEMS, DESIGN & INSTALL	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-41			
988-46	Landfill Services	988	ROADSIDE, GROUNDS, RECREATIONAL AND PARK AREA SERVICES	988-46	Landfill Services		
999-XX	INVALID CODE CONVERSION - DO NOT REGISTER						
CS0-03	Use 90735 DESIGN SERVICES						
CS0-03-20	Use 92533 ENGINEERING SERVICES						
CS0-04-20	Use 96214 BLUEPRINT SERVICES						
CS0-04-30	COMPUTER SERVICES						
CS0-06	BONDS & INSURANCE						
CS0-06-00	BONDS & INSURANCE						
CS0-15-05	MOBILIZATION						
CS0-15-25	CONSTRUCTION AIDS/SAFETY EQUIPMENT						
CS0-15-33	TREE & PLANT PROTECTION						
CS0-15-51	ACCESS ROADS						
CS0-15-69	TRAFFIC CONTROL & SAFETY EQUIPMENT SUPPLIES						
CS0-18	MAINTENANCE						
CS0-20-10	SUBSURFACE INVESTIGATION						
CS0-20-60	BUILDING DEMOLITION						
CS0-20-75	CONCRETE REMOVAL						
CS0-21-10	SITE CLEARING						
CS0-21-40	Use 96893 DEWATERING						
CS0-21-60	EXCAVATION SUPPORT SYSTEMS						
CS0-21-64	SOIL & ROCK ANCHORS						
CS0-22-40	SOIL STABILIZATION						
CS0-25-10	ASPHALTIC CONCRETE PAVING						
CS0-25-80	PAVEMENT MARKING						
CS0-26-05	UTILITY STRUCTURES						
CS0-27-30	SANITARY SEWERAGE						
CS0-28-10	Use 91227 IRRIGATION SYSTEMS						
CS0-29-10	Use 98852 SHRUB & TREE TRANSPLANTING						
CS0-29-50	TREES, PLANTS & GROUND COVERS						
CS0-29-70	LANDSCAPING MAINTENANCE						
CS0-30	CONCRETE CONTRACTOR						
CS0-30-00	CONCRETE CONTRACTOR						
CS0-33-00	CAST-IN-PLACE CONCRETE						
CS0-34-10	STRUCTURAL PRECAST CONCRETE - PLANT CAST						
CS0-42-20	CONCRETE UNIT MASONRY						
CS0-44	STONE SUPPLIER						
CS0-51-20	STRUCTURAL STEEL						
CS0-55	METAL FABRICATIONS						
CS0-60	CONSTRUCTION MATERIAL SUPPLIERS						

Item 4d.

AUSTIN CODE	AUSTIN NIGP DESCRIPTION	NIGP 3	NIGP 3 DESCRIPTION	NIGP 5	NIGP 5 DESCRIPTION	NIGP 7	NIGP 7 DESCRIPTION
CS0-75-10	BUILT-UP BITUMINOUS ROOFING						
CS0-75-25	MODIFIED BITUMINOUS SHEET ROOFING						
CS0-76-10	SHEET METAL ROOFING						
CS0-81-10	STEEL DOORS & FRAMES						
CS0-83-00	SPECIAL DOORS						
CS0-84-10	ALUMINUM ENTRANCES & STOREFRONTS						
CS0-87	HARDWARE SUPPLIER						
CS0-92-60	GYPSUM BOARD SYSTEMS						
CS0-93	TILE						
CS0-98-60	GRAFFITI RESISTANT COATINGS						
CS1-02	LOUVERS & VENTS						
CS1-02-00	LOUVERS & VENTS						
CS1-05-22	FIRE EXTINGUISHERS, CABINETS & ACCESSORIES						
CS1-11-60	LOADING DOCK EQUIPMENT						
CS1-13-06	PACKAGED PUMP STATIONS						
CS1-13-20	GRIT COLLECTING EQUIPMENT						
CS1-13-50	SLUDGE HANDLING & TREATMENT EQUIPMENT						
CS1-25	WINDOW TREATMENT						
CS1-33	UTILITY CONTROL SYSTEMS						
CS1-39-50	SPECIAL SECURITY CONSTRUCTION						
CS1-46-00	HOISTS & CRANES						
CS1-50	MECHANICAL CONTRACTORS						
CS1-50-10	MECHANICAL CONTRACTORS						
CS1-50-11	MECHANICAL SERVICE						
CS1-50-20	Use 92567 MECHANICAL ENGINEERS						
CS1-51	VALVES						
CS1-53	FIRE PROTECTION						
CS1-56-80	WATER CHILLERS						
CS1-57	COOLING TOWERS						
CS1-59-50	CONTROLS						
CS1-60	ELECTRICAL CONTRACTORS						
CS1-60-10	ELECTRICAL CONTRACTORS						
CS1-60-20	Use 92531 ELECTRICAL ENGINEERS						
CS1-60-40	ELECTRICAL SUPPLIERS						
CS1-69	CONTROLS						
CS1-69-10	ELECTRICAL SYSTEMS CONTROL						
LAB-EL							

APPENDIX C

2014 08 01 Phase II- Part B Proposal



August 1, 2014

Ms. Robin Camp
City of Austin
Public Works Department
Project Management Division
505 Barton Springs Road, Ste 900
Austin, TX 78704

RE: CLMP080 2011 Small Scale General Civil Rotation List, PA110000062
Commodity Code Phase II, Part B - Scope and Fee Proposal

Ms. Camp:

LAN is pleased to submit this scope of services for Phase II, Part B of the above referenced rotation list assignment. The goal of the assignment is to assist the City in analyzing past bids and the City's most commonly used commodity codes. This will provide information regarding standard bid items and cost estimate data in order to create crosswalks between standard bid items and established national commodity codes. This assignment is being completed in multiple phases. The result of LAN's study in Phase I and Phase II Part A was a per-unit-price breakdown of ratio for each component in a bid item. As part of Phase II Part A, LAN began establishing a methodical approach to determining bid item breakdowns for the 573 standard City bid items, using a sample of 12 standard bid items. These cost breakdowns were then assigned commodity codes by Periscope, hired directly by the City under a separate contract.

Due to a change in scope for the Phase II, Part A project as described in the attached scope modification letter dated January 31, 2014, LAN was directed to focus our efforts and remaining budget towards assisting Periscope with the Construction Specifications Institute (CSI) bid item to National Institute of Governmental Purchasing (NIGP) code crosswalk. Because of this scope change, the remaining scope items defined in the Phase II, Part A project will be completed under this new scope of services.

LAN, in previous consultation with the City, determined that most project trade summaries could be developed with breakdowns for approximately 150 City Standard bid items (of the 573 total bid items). As requested by the City, Phase II, Part B will include breakdowns for 50 standard bid items. One of the initial tasks of Part B will be to finalize the list of bid items that will be broken down as part of this phase using stakeholder input from local contractors and City Staff. The scope for Phase II Part B will also include determining appropriate NIGP commodity codes for the bid item components. Periscope will perform a review of these NIGP codes under a separate contract with the City. LAN will provide a spreadsheet translating each bid item into its component items and associated ratios.

For Phase II, Part A, LAN contracted with local minority construction firm Central Road & Utility (CRU), based on previous positive experience during the construction of a City of Austin street reconstruction project. Because CRU is a registered MBE with the City of Austin, they have the unique perspective of doing business as a minority prime contractor and minority subcontractor. The Phase II, Part B proposal includes continued services from CRU to serve as a reference on the bid item breakdowns.

Phase II Part B will include stakeholder and team meetings to refine the Standard Bid Item to NIGP Crosswalk process and the end product by performing a bid item component study on a group of 50 additional standard bid items. A stronger level of understanding was developed in Part A and efficiencies in the process were identified. However, as identified above, Phase II, Part A is on-going.

Part A – Continuation of Previous Contract

Below is a list of tasks that were removed from the Phase II, Part A Scope of Work in order to assist Periscope with the CSI to NIGP code crosswalk, as previously described. These tasks will be completed under this new agreement.

1. n/a;
2. n/a;
3. n/a;
4. Coordination with CRU to identify what scopes of work contractors use to meeting minority participation goals and which bid items these scopes of work are paid under;
5. Bid item component study:
 - 5.1. n/a;
 - 5.2. n/a;
 - 5.3. n/a;
 - 5.4. Complete collaboration with CRU to confirm bid item components and percentages for the 12 bid items selected;
 - 5.5. Complete documentation of methodology, sources for information, and assumptions; and
 - 5.6. Narrow assumptions and make recommendations for components and associated NIGP codes for 12 bid items.
6. After LAN has determined the labor, equipment and material components of each bid item we will assign an NIGP code to each component. We will then coordinate with Periscope to help them understand the breakdown of each item so they can cross-check the NIGP codes assigned to each component.
7. After the crosswalk effort is complete, LAN will collaborate with the City to develop a tool that can assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.
8. CRU – As part of Phase 2, CRU will provide guidance on how bids are assembled to meet minority participation goals for City of Austin construction projects. No additional fee is proposed for CRU to assist with Part A for this proposal because funds remain from the previous contract that will be used to complete this task.

Part B

Part B execution will be based on findings from Part A and will commence once Part A is concluded. Below is a list of tasks to be performed during Part B of Phase 2 of this assignment. This scope assumes that Part B will require a duration of four (4) months upon completion of the Part A scope of work.

1. Project Management
 - 1.1. LAN will prepare a work plan for internal communications and project expectations. This work plan will be updated as changes in scope or schedule occur.
 - 1.2. LAN will prepare internal and external project updates throughout the duration of the project. External project updates will be sent to the client on a bi-weekly basis, for a period of four months.
 - 1.3. LAN will prepare a schedule for project completion and update as changes occur.

2. Attend progress meetings monthly for four (4) months. Meeting preparation is included in this task.
3. Attend stakeholder meetings. Assumes attendance at four (4) stakeholder meetings, including stakeholders external to the City such as contractors (minority and non-certified) as well as minority interest groups. LAN will assist in preparation for these meetings, including 1 exhibit for each meeting. Coordination, administration, presentation, and documentation of stakeholder meetings will be performed by others.
4. Bid item component study:
 - 4.1. Identify up to 50 bid items for Phase II, Part B analysis;
 - 4.2. Research and determine bid item components, for up to 50 bid items, using standard specifications and information provided by CRU;
 - 4.3. Determine percentages for labor, equipment and material components that contribute towards the cost of each bid item;
 - 4.4. Collaborate with CRU to confirm bid item components and percentages;
 - 4.5. Document methodology, sources for information, and assumptions; and
 - 4.6. Narrow assumptions and make recommendations for components for 50 bid items; and
 - 4.7. Assign preliminary NIGP codes to standard bid item components for 50 bid items. The NIGP code assignments will be reviewed by Periscope under a separate contract with the City.
5. After LAN has determined the labor, equipment and material components of each bid item and assigned preliminary NIGP codes, we will coordinate with Periscope to review NIGP code assignments. Assumes 2 meetings with Periscope.
6. After the crosswalk effort is complete, LAN will collaborate with the City to finalize the tool that will assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.
7. CRU – As part of Part B, CRU will provide guidance on how bids are assembled to meet minority participation goals for City of Austin construction projects. A summary of work to be performed is included in the subconsultant proposal from CRU, dated August 1, 2014.
8. Reimbursable Expenses – Expenses may include document reproduction, exhibits, courier services, etc.

We appreciate the opportunity to complete this project with the City. LAN proposes to perform the above services for Phase II, Part A and B as a lump sum fee of **\$148,640**. A detailed fee estimate breakdown is included. We look forward to continuing this project with the City. Should you have any questions or need further information, please do not hesitate to contact either myself or Ryan Owen at tmmichel@lan-inc.com, RDOwen@lan-inc.com, or by phone at (512) 338-4212.

Sincerely,



Travis Michel, PE
Sr. Project Manager

cc: Ryan Owen, PE
LAN File No. 160-10513-100-2.3

Attachments



CRU, Ltd.
Central Road and Utility, Ltd.
8760A Research Blvd. #192
Austin, Texas 78758
(512) 989-2602 Fax: (512) 989-2698

Item 4d.

August 1, 2014

Mr. Travis Michel, P.E.
Lockwood, Andrews & Newnam, Inc.
10801 N. Mopac Expwy, Ste 120
Austin, TX 78759

RE: CLMP080 2011 Small Scale General Civil Rotation List, PA110000062
Commodity Code RFP Scope and Fee – Phase II B

Mr. Michel:

Central Road & Utility, Ltd. (CRU) is pleased to submit this scope of services for the above referenced project. CRU was contacted by LAN to provide professional consulting services to assist LAN in the component breakdown of a portion of the City of Austin's standard bid items. CRU is uniquely qualified to provide services to LAN because of our experience with construction of City of Austin projects, as well as 15 years of engineering design experience.

Below is a list of tasks to be performed on this assignment.

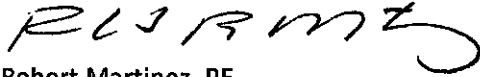
1. Attend progress meetings monthly for 4 months. Meeting preparation will be performed by LAN;
2. CRU will send one representative to attend stakeholder meetings. Assume 2 stakeholder meetings, including stakeholders external to the City such as construction contractors (minority and non-certified) as well as minority interest groups. Preparation, coordination, administration, presentation, and documentation of stakeholder meetings will be performed by others;
3. Coordination with LAN to identify what scopes of work are typically used to meeting minority participation goals;
4. Bid item component study:
 - 4.1. Assist LAN in identification of up to 50 bid items for Phase II B analysis;
 - 4.2. Assist LAN in determining the equipment, materials and labor required to complete scopes of work included in up to 50 bid items;
 - 4.3. Assist LAN in determining the percentages that each component contributes to the unit cost of up to 50 bid items;
 - 4.4. Collaborate with LAN to confirm bid item components and percentages;

All scopes of work performed under this assignment, including but not limited to the presentation of recommendations and development of the ultimate tool used for trade summaries, will be performed by others.

CRU proposes to perform these services as Time and Materials based on the rates included in the above referenced contract. The fee for scope of services is not to exceed ~~\$63,268~~ without prior written approval. A detailed fee estimate is included. If you have any questions, please contact me at 426-1777.

Sincerely,

\$19,350 T.M. 8/1/14



Robert Martinez, PE
Project Manager

Attachment

City of Austin
Commodity Code RFP
Phase IIB Bid-Item Analysis Scope and Fee

August 1, 2014

PHASE 2, PART B

DESCRIPTION	SR CONSTR ADVISOR	SR CONSTR ESTIMATOR	JR CONSTR ESTIMATOR	EXEC ASST	TOTAL HOURS	TOTAL COST
	R. MARTINEZ	J. GEORGE	G. GONZALEZ	G. DOLLINGER		
	\$ 175	\$ 140	\$ 90	\$ 82		
1 Attend monthly progress meetings (4 total meetings)	8			4	12	\$ 1,728
2 Attend stakeholder meetings (1 internal, 3 external)	8			4	12	\$ 1,728
3 Coordination with LAN to identify minority opportunities	8	4			12	\$ 1,960
4 Bid item component study						
4.1 Identify Phase IIB bid items (up to 50)	4				4	\$ 700
4.2 Research bid item components (50 items)	4	45	16		65	\$ 8,440
4.3 Determine percentage of each component	8	4	16		28	\$ 3,400
4.4 Collaborate with LAN	8				8	\$ 1,400
Total	48	53	32	8	141	\$ 19,356



January 31, 2014

Ms. Robin Camp
City of Austin
Public Works Department
Project Management Division
505 Barton Springs Road, Ste. 900
Austin, TX 78704

RE: Commodity Code Phase II, Part A – Scope Modification

Ms. Camp:

Lockwood, Andrews & Newnam, Inc. (LAN) is currently working on the Commodity Code Phase II, Part A project, Contract Number (DO) 12022108678A, for the City of Austin (City). The purpose of this letter is to outline proposed modifications to the scope of services in this contract.

After determining preliminary bid component breakdowns for the 12 standard bid items included in this phase of work, internal project stakeholders met to discuss recommended next steps in these efforts. These discussions resulted in identifying the following path forward:

1. Request that the Small & Minority Business Resources (SMBR) department identify “test projects” that have been completed, which met varying MBE/WBE participation results, to test the preliminary bid component breakdowns and associated National Institute of Government Purchasing (NIGP) codes prior to finalizing the bid component breakdowns.
2. LAN will provide assistance to Periscope Holdings, Inc. (Periscope) on the Construction Specifications Institute (CSI) to NIGP crosswalk efforts.

Moving forward with these recommendations resulted in a modification to the existing scope of services. Based on the items described above, LAN provided a proposal letter dated December 18, 2013 outlining scope and budget modifications for performing work on above items 1 and 2 without increasing the overall project budget. On January 10, 2014, LAN met with the City and Periscope to discuss overall project objectives, current issues and roadblocks experienced in the project to date. This meeting resulted in the City’s request that LAN’s involvement be increased on the CSI to NIGP crosswalk effort. This letter details scope modifications to focus the remaining project budget on the CSI to NIGP crosswalk assistance efforts. Please note that due to this scope change, work on the standard bid item breakdowns will not be continued under this contract. LAN will provide a separate scope and fee proposal to complete this work.

Review CSI to NIGP Crosswalk

The City requested that LAN provide assistance on the CSI code to NIGP code crosswalk work currently being performed by Periscope. LAN will provide services by a professional with experience working with CSI codes, estimating, and assembling bid documents for facility projects to review current issues on the CSI to NIGP code crosswalk work as specified below. LAN will provide the following services:

1. Review the existing CSI to NIGP code crosswalk spreadsheets provided by the City and Periscope, including the most recent versions of CSI to NIGP code crosswalk. LAN will focus specifically on the CSI codes for which Periscope has identified an NIGP code match. The City and Periscope will provide necessary documentation and be available for coordination throughout the review period. (48 hours)

Ms. Robin Camp
City of Austin
January 31, 2014
Page 2

2. Attend two (2) review meetings. (12 hours)
3. Provide a cursory review of the completed CSI to NIGP code crosswalk links assigned by Periscope, and provide recommendations resulting from the review. (32 hours)
4. Meet with the City and Periscope to discuss the overall changes and recommendations made on the CSI to NIGP code crosswalk. (8 hours)

These services are intended to provide an advisory role for the CSI to NIGP code crosswalk process and provide suggestions related to the methodology of the code assignments.

Scope and Budget Modification

Due to the additional scope items described above, tasks included in the original scope of services will need to be reduced or eliminated from the the Phase II, Part A project in order to maintain the existing project budget. Please note that because of the additional scope described above, work associated with the standard bid item to NIGP code crosswalk will be discontinued until a supplementary agreement is reached for additional work.

The scope items described below are to be removed or reduced from the Phase II, Part A scope and replaced with the Work described above.

Phase II, Part A Scope of Services – Items Reduced

4. Coordination with CRU to identify what scopes of work contractors use to meeting minority participation goals and which bid items these scopes of work are paid under;
5. Bid item component study:
 - 5.4. Collaborate with CRU to confirm bid item components and percentages;
 - 5.5. Document methodology, sources for information, and assumptions; and
 - 5.6. Narrow assumptions and make recommendations for components and associated NIGP codes for 12 bid items.
6. After LAN has determined the labor, equipment and material components of each bid item we will assign an NIGP code to each component. We will then coordinate with Periscope to help them understand the breakdown of each item so they can cross-check the NIGP codes assigned to each component;
7. After the crosswalk effort is complete, LAN will collaborate with the City to develop a tool that can assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.

The executed contract for this project is provided as an attachment to this letter.

The following table shows updated budget resulting from the scope modifications described above. As requested, there is no change to the overall budget for this project.

Ms. Robin Camp
City of Austin
January 31, 2014
Page 3

Task Description	Budget	Scope Change	Updated Budget
A. Phase 2 - Part A			
1) Management	\$8,759.00	\$1,000.00	\$9,759.00
2) Monthly Progress Meetings	\$4,938.00	\$0.00	\$4,938.00
3) Stakeholder Mtgs	\$4,962.00	\$0.00	\$4,962.00
4) Coordination with CRU	\$2,408.00	(\$1,300.00)	\$1,108.00
5) Bid Item Component Study	\$20,018.00	(\$8,700.00)	\$11,318.00
6) Coordination with Periscope	\$2,768.00	(\$2,600.00)	\$168.00
7) Coordination on Trade Summmary	\$3,834.00	(\$2,900.00)	\$934.00
8) CRU	\$8,628.00	\$0.00	\$8,628.00
9) Expenses	\$500.00	\$150.00	\$650.00
B. Supplementary Item			
1) Review CSI-NIGP Crosswalk	\$0.00	\$14,350.00	\$14,350.00
Total	\$56,815.00	\$0.00	\$56,815.00

Once you have had the opportunity to review this letter, please contact me at (512) 338-2760 to discuss further. We look forward to continued work on this project.

Sincerely,



Ryan D. Owen, PE
Project Manager

cc: Drew Hardin, PE
LAN File No. 160-10513-000-1.2

Attachment

ATTACHMENT 2

DATE: 7/22/13 ASSIGNMENT NO.: 1 PROPOSAL REQUEST NO.: 1.2

MASTER AGREEMENT: PA110000062 CONTRACT NUMBER (DO): 12022108678A

Fund: 8400 Dept: 6207 Unit: 9029 Object Code: 5590 Activity: Rept: 2800 Percentage: 100%

Fund: Dept: Unit: Object Code: Activity: Rept: Percentage:

Fund: Dept: Unit: Object Code: Activity: Rept: Percentage:

TO: CONSULTANT: Graham M. Moore, P.E.
 Lockwood Andrews & Newnam, Inc.
 10801 N. MoPac Expressway, Bldg 1, Suite 120
 Austin, TX 78704

FROM: OWNER: Rotation List Manager: David Brocato
 Project Manager / Department: Robin Camp / 974-7830
 Contract Management Division
 Contract Management Department
 City of Austin
 P.O. Box 1088
 Austin, Texas 78767

The CONSULTANT PROPOSAL is for the following PROJECT assignment:

SUBPROJECT NAME: Commodity Code RFP

SUBPROJECT DESCRIPTION:

Reference Attachments: Lockwood Andrews & Newnam, Inc. proposal for Commodity Code RFP Scope & Fee - Phase II dated July 22nd, 2013. Project Continuation Services

SUBPROJECT FIXED CONSTRUCTION BUDGET (RE: Section 3): Dollars (\$))

Received: Date 7/25/13 Initials Jm
 Forwarded to: JL Date 7/25/13
 Completed: JL Date 7/26/13
 Approved: OB Date 7/26/13

(continued on next page)

CE 7/25/13

PHASES OF SERVICE AND RESOURCE ALLOCATION PLAN REQUIRED FOR BASIC SERVICES (RE: Sections 1 & 4):

Preliminary Phase

☒ Required ☐ Not Required

The CONSULTANT shall commence the provision of services upon receipt of written authorization from the OWNER to proceed with this phase of the services as described in Subsection 1.4.1 of this AGREEMENT and agrees to complete all services required in (365) calendar days.

Design Phase

☐ Required ☒ Not Required

The CONSULTANT shall commence the provision of services upon receipt of written authorization from the OWNER to proceed with this phase of the services as described in Subsection 1.4.2 of this AGREEMENT and agrees to complete all services required in () calendar days.

Bid-Award-Execution Phase

☐ Required ☒ Not Required

Construction Phase

☐ Required ☒ Not Required

Construction Time Extensions (RE: Par. 1.4.4.1): Number of Days
Resident PROJECT Representative (RE: Par. 1.4.4.14) ☐ Required ☐ Not Required

Post Construction Phase

☐ Required ☒ Not Required

Warranty Services Allowance (RE: Par. 1.4.5.6): Number of Hours

OTHER BASIC SERVICES: Reference Attachments:

PAYMENTS FOR BASIC COMPENSATION

☒ Lump Sum

☐ Loaded Hourly Rate

Lump Sum: Payments for Basic Services shall be made such that Basic Compensation for each Phase shall equal the following percentages of the total Basic Compensation payable:

Preliminary Phase:	100 percent (%)
Design Phase:	percent (%)
Bid-Award-Execution Phase:	percent (%)
Construction Phase:	percent (%)
Post Construction Phase*:	percent (%)
	[* normally 6% percent of the Construction Phase compensation]

Loaded Hourly Rate: Complete Attachment 3

(continued on next page)

CONSULTANT PROPOSAL

The proposed budget for this PROJECT assignment and the services described above is:

Basic Services	\$ 56,315.00
Allowance for Reimbursable Expenses	\$ 500.00
TOTAL	\$ 56,815.00

Required Resource Allocation Plan (Sec. 4) is included as Attachment 1

Reference Other Attachments:

Signature:


CONSULTANT

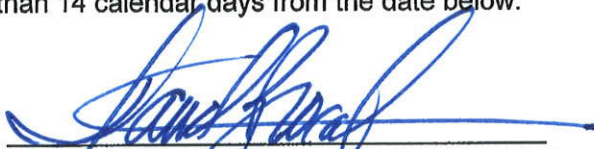
7/22/13
DATE

NOTICE TO PROCEED

When executed by the OWNER in the space provided below, and delivered to the CONSULTANT, the CONSULTANT is authorized to proceed with work as described in the PROPOSAL REQUEST, for the amount indicated above, in accordance with the contract referenced above and hereby incorporated herein.

NOTE: The Quality Control Plan (QCP) is to be submitted to the Project Manager no later than 14 calendar days from the date below.

OWNER :


By: David Brocato , Rotation List Manager
Contract Management Division

7/26/2013
DATE

cc: Robin Camp, Project Manager



PURCHASE ORDER

PO CITY SINGLE

PAGE NO: 1

REFERENCE NUMBER: DO 6100 12022108678A

P.O DATE: 07/26/13

PRICE AGREEMENT #: MA 6100 PA110000062

V JULIE D. HASTINGS, PE
E LOC2921000 1
N LOCKWOOD ANDREWS & NEWMAN INC
D 10801 N MOPAC EXPWY B1 #120
O
R AUSTIN TX 78759

S Cont. & Land Mgmt-Contract Procurement
H
I Contract Procurement
P 105 Riverside Dr. Suite 210
Austin TX 78704-1249
T
O

B Cont. & Land Mgmt-Contract Procurement
I
L Contract Procurement
L PO Box 1088, Suite 1000
Austin TX 78767-1088
T
O

Requestor: David Brocato, 974-7181
Buyer: See CLMD Solicitation, 512-974-7181

The City's standard purchase terms and conditions are hereby incorporated into this order by reference, with the same force and effect as if they were incorporated in full text. The full versions are available at https://www.austintexas.gov/financeonline/vendor_connection/index.cfm#STANDARDBIDDDOCUMENTS or call the Purchasing Office at (512) 974-2500. Please include above reference number on all packages, deliveries, and invoices.

Line	Quantity	Unit	Commodity Information / Description (s)										Unit Price	Extended Amount	
1	Commodity: 92517 Civil Engineering													0.000000	\$ 56,815.00
PR #1.2 - Commodity Code RFP ++ Enc. \$56,815.00															
Line	Fund	Dept	Unit	Objt	Actv	Func	Rept	Task	Ord	Prog	Prog Period	Line Amount			
1	8400	6207	9029	5590			2800					\$ 56,815.00			

VENDOR INSTRUCTIONS:

1. SEND ORIGINAL INVOICE WITH DUPLICATE COPY TO THE CITY DEPARTMENT TO WHICH THE GOOD(S) WERE DELIVERED.
2. SHIPPING INSTRUCTIONS: F.O.B. DESTINATION UNLESS OTHERWISE SPECIFIED.
3. NO FEDERAL OR STATE SALES TAX SHALL BE INCLUDED IN PRICES BILLED. LIMITED SALES TAX #74-6000085.

Order Total: \$

56,815.00

[Signature]
Authorized Agent for City Manager

By acceptance of this purchase order, you agree to comply with the terms and conditions incorporated herein by reference and made a part of this order.

Date

Item 4d.

726-13



July 22, 2013

Ms. Robin Camp
City of Austin
Public Works Department
Project Management Division
505 Barton Springs Road, Ste 900
Austin, TX 78704

RE: CLMP080 2011 Small Scale General Civil Rotation List, PA110000062
Commodity Code RFP Scope and Fee – Phase II, Part A

Ms. Camp:

LAN is pleased to submit this scope of services for the above referenced rotation list assignment. The goal of the assignment is to assist the City in analyzing past bids and the City's most used commodity codes. This will provide information regarding standard bid items and cost estimate data in order for a Purchasing Consultant to create crosswalks between standard bid items and established national commodity codes. This assignment is being completed in multiple phases. The result of LAN's study in Phase I was a per-unit-price breakdown of ratio for each component in a bid item. As part of Phase I, LAN established a methodical approach to determining bid item breakdowns for the 573 standard City bid items, using a sample of 8 standard bid items. These cost breakdowns were then assigned commodity codes by Periscope, who was hired directly by the City of Austin.

After successfully breaking down 8 bid items in Phase I, the City requested that LAN move forward with Phase II, which includes a much larger number of bid items. LAN has preliminarily determined that most project trade summaries could be developed if there were breakdowns for approximately 150 bid items. One of the initial tasks of Phase II will be to finalize the list of bid items that will be broken down as part of this phase using input from local contractors and the City Staff. As in Phase I, LAN's scope for Phase II does not include determining appropriate commodity codes for the bid item components. This effort will be performed by Periscope, under a separate contract with the City. LAN will provide a spreadsheet that translates each bid item into its component items and associated ratios. An example of this spreadsheet is attached as Exhibit 1.

During Phase 1, LAN contacted a few local contractors, familiar with the City of Austin's standard pay items for horizontal construction, for verification of bid item components. It became apparent during the course of Phase 1 that it would be very beneficial to bring a local contractor on board for Phase 2 to have more access to the contractor's perspective during bid preparation. LAN has chosen to contract with a local minority construction firm called Central Road & Utility (CRU) based on previous positive experience during construction phase of a City of Austin street reconstruction project. Because CRU is a registered MBE with the City of Austin, they have the unique perspective of doing business as a minority prime contractor and minority subcontractor.

Phase 2 will be split into Parts A and B. Part A will include stakeholder and team meetings to refine the Bid Item – National Institute of Governmental Purchasing (NIGP) Crosswalk process and the end product

by performing a bid item component study on a group of 12 standard bid items. A stronger level of understanding will be developed and efficiencies in the process can be identified during Part A.

Part A

Below is a list of tasks to be performed during Part A of Phase 2 of this assignment. This scope assumes that Part A of Phase 2 will have a 3 month duration.

1. Management
 - 1.1. LAN will prepare a work plan for internal communications and project expectations. This work plan will be updated as changes in scope or schedule occur.
 - 1.2. LAN will prepare internal and external project updates throughout the duration of the project. External project updates will be sent to the client on a bi-weekly basis, for a period of nine months.
 - 1.3. LAN will prepare a schedule for project completion and update as changes occur.
2. Attend progress meetings monthly for 3 months. Meeting preparation is included in this task;
3. Attend stakeholder meetings. Assume 2 stakeholder meetings, including stakeholders external to the City such as contractors (minority and non-certified) as well as minority interest groups. LAN will assist in preparation for these meetings, including 1 exhibit for each meeting. Coordination, administration, presentation, and documentation of stakeholder meetings will be performed by others;
4. Coordination with CRU to identify what scopes of work contractors use to meeting minority participation goals and which bid items these scopes of work are paid under;
5. Bid item component study:
 - 5.1. Identify 12 bid items for Phase II – Part A analysis;
 - 5.2. Research and determine bid item components, for up to 12 bid items, using standard specifications and information provided by CRU;
 - 5.3. Determine percentage that labor, equipment and material components contribute towards the cost of each bid item;
 - 5.4. Collaborate with CRU to confirm bid item components and percentages;
 - 5.5. Document methodology, sources for information, and assumptions; and
 - 5.6. Narrow assumptions and make recommendations for components and associated NIGP codes for 12 bid items.
6. After LAN has determined the labor, equipment and material components of each bid item we will assign an NIGP code to each component. We will then coordinate with Periscope to help them understand the breakdown of each item so they can cross-check the NIGP codes assigned to each component;
7. After the crosswalk effort is complete, LAN will collaborate with the City to develop a tool that can assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.
8. CRU – As part of Phase 2, CRU will provide guidance on how bids are assembled to meet minority participation goals for City of Austin construction projects.

Part B (Not Authorized at this Time)

Part B execution will be based on findings during Part A and will commence once Part A is concluded. Below is a list of tasks to be performed during Part B of Phase 2 of this assignment. This scope assumes that Part B of Phase 2 will have a 6-month duration.

1. Management
 - 1.1. LAN will prepare a work plan for internal communications and project expectations. This work plan will be updated as changes in scope or schedule occur.

- 1.2. LAN will prepare internal and external project updates throughout the duration of the project. External project updates will be sent to the client on a bi-weekly basis, for a period of nine months.
- 1.3. LAN will prepare a schedule for project completion and update as changes occur.
2. Attend progress meetings monthly for 6 months. Meeting preparation is included in this task;
3. Attend stakeholder meetings. Assume 2 stakeholder meetings, including stakeholders external to the City such as contractors (minority and non-certified) as well as minority interest groups. LAN will assist in preparation for these meetings, including 1 exhibit for each meeting. Coordination, administration, presentation, and documentation of stakeholder meetings will be performed by others;
4. Bid item component study:
 - 4.1. Identify up to 138 bid items for Phase II – Part B analysis;
 - 4.2. Research and determine bid item components, for up to 138 bid items, using standard specifications and information provided by CRU;
 - 4.3. Determine percentage that labor, equipment and material components contribute towards the cost of each bid item;
 - 4.4. Collaborate with CRU to confirm bid item components and percentages;
 - 4.5. Document methodology, sources for information, and assumptions; and
 - 4.6. Narrow assumptions and make recommendations for components for 138 bid items.
5. After LAN has determined the labor, equipment and material components of each bid item, we will coordinate with Periscope to help them understand the breakdown of each item so they can assign associated commodity codes to each component;
6. After the crosswalk effort is complete, LAN will collaborate with the City to finalize the tool that will assist City staff and consulting engineers in filling out project trade summaries in a consistent manner.
7. CRU – As part of Phase 2, CRU will provide guidance on how bids are assembled to meet minority participation goals for City of Austin construction projects.

Below are exclusions to Part B of Phase 2:

1. LAN will not assign NIGP codes to components for Part B. If the process for Part A is successful and the City would like for LAN to assign NIGP codes, LAN will prepare an additional services contract for this task.

LAN proposes to perform services for Phase II, Part A at lump sum fee of \$56,815. A detailed fee estimate is included; please contact me at 512-338-4212 with any questions.

Sincerely,



Graham Moore, PE
Associate

cc: Drew Hardin, PE
LAN File No. 160-10513-000-2.3

Attachments



CRU, Ltd.
Central Road and Utility, Ltd.
8760A Research Blvd. #192
Austin, Texas 78758
(512) 989-2602 Fax: (512) 989-2698

March 8, 2013

Mr. Graham Moore
Lockwood, Andrews & Newnam, Inc.
10801 N. Mopac Expwy, Ste 120
Austin, TX 78759

RE: CLMP080 2011 Small Scale General Civil Rotation List, PA110000062
Commodity Code RFP Scope and Fee – Phase II

Mr. Moore:

Central Road & Utility, Ltd. (CRU) is pleased to submit this scope of services for the above referenced project. CRU was contacted by LAN to provide professional consulting services to assist LAN in the component breakdown of a portion of the City of Austin's standard bid items. CRU is uniquely qualified to provide services to LAN because of our experience with construction of City of Austin projects, as well as 15 years of engineering design experience.

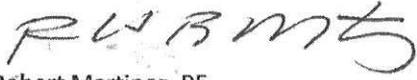
Below is a list of tasks to be performed on this assignment.

1. Attend progress meetings monthly for 6 months. Meeting preparation will be performed by LAN;
2. CRU will send one representative to attend stakeholder meetings. Assume 4 stakeholder meetings, including stakeholders external to the City such as construction contractors (minority and non-certified) as well as minority interest groups. Preparation, coordination, administration, presentation, and documentation of stakeholder meetings will be performed by others;
3. Coordination with LAN to identify what scopes of work are typically used to meeting minority participation goals;
4. Bid item component study:
 - 4.1. Assist LAN in identification of up to 150 bid items for Phase II analysis;
 - 4.2. Assist LAN in determining the equipment, materials and labor required to complete scopes of work included in up to 150 bid items;
 - 4.3. Assist LAN in determining the percentages that each component contributes to the unit cost of up to 150 bid items;
 - 4.4. Collaborate with LAN to confirm bid item components and percentages;

All scopes of work performed under this assignment, including but not limited to the presentation of recommendations and development of the ultimate tool used for trade summaries, will be performed by others.

CRU proposes to perform these services as **Time and Materials** based on the rates included in the above referenced contract. The fee for scope of services is not to exceed \$63,268 without prior written approval. A detailed fee estimate is included. If you have any questions, please contact me at 426-1777.

Sincerely,



Robert Martinez, PE
Project Manager

Attachment

Commodity Code RFP PR 1.2
110000062

ATTACHMENT 1: RESOURCE ALLOCATION PLAN

Note: PM will advise Consultant of level of detail and payment benchmarks desired for Task Descriptions

Task Description	Budget	Start Date	End Date	% Complete	% Paid	% Time
A. Phase 2 - Part A						
Management	\$8,759.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Monthly Progress Meetings (3)	\$4,938.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Stakeholder Mtgs (2)	\$4,962.00	8/19/2013	10/25/2013	0.0%	0.0%	0.0%
Coordination with CRU	\$2,408.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Bid Item Component Study	\$20,018.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Coordination with Periscope (2 mtgs)	\$2,768.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Coordination with City on Trade Summ	\$3,834.00	8/19/2013	10/25/2013	0.0%	0.0%	0.0%
CRU	\$8,628.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Expenses	\$500.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Phase Total	\$56,815.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%
Project Total	\$56,815.00	7/29/2013	10/25/2013	0.0%	0.0%	0.0%

APPROVED FIXED CONSTRUCTION BUDGET: N/A

DATE OF CURRENT FCB:

Subconsultant Utilization Form

Contract Management Department
Contract Management DivisionRotation List Name/#: Small Scale Civil Engineering / PA110000062 Project Name: Commodity Code RFP Project Manager: Robin CampAssignment # / Proposal Request #: 1 / 1.2Date: 7/22/13 Submitted by: Graham Moore Firm: Lockwood Andrews & Newnam

Firm	Cert Type	Description of Work	Work Hours	Amount \$
LAN	Not Certified	Determination of commodity code components for 20 COA standard bid items.	275	\$48,187.00
Cox McIn Environmental Consulting, Inc.	FW	<Brief Description of work to be performed >	0.0	\$000.00
Jose I. Guerra, Inc.	MH	<Brief Description of work to be performed >	0.0	\$000.00
Hejl, Lee & Associates, Inc.	MA	<Brief Description of work to be performed >	0.0	\$000.00
Holt Engineering, Inc.	FW	<Brief Description of work to be performed >	0.0	\$000.00
HVJ Associates, Inc.	MB	<Brief Description of work to be performed >	0.0	\$000.00
McGray & McGray Land Surveyors, Inc.	FW	<Brief Description of work to be performed >	0.0	\$000.00
Central Road and Utility, LTD	MH	Consulting to support determination of commodity code components of 20 COA standard bid items	62	\$8,628.00
<Subconsultant 8>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 9>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 10>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 11>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 12>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 13>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 14>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
<Subconsultant 15>	<Drop Down>	<Brief Description of work to be performed >	0.0	\$000.00
TOTAL			337	\$56,815

MBE/WBE PARTICIPATION

Please calculate participation percentages for each category, based upon the total dollar amount for certified firms in the specified category divided by the Total Amount of the assignment.

	NON-Certified	African American	Hispanic	Asian/Native American	MBE	WBE
This Assignment	84.2%	0%	15.8%	0%	15.8%	0%

Compliance Plan	67.4%	1.90%	10.00%	4.90%	16.8%	15.8%
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Please provide an explanation for any categories where participation for this assignment is less than the approved Compliance Plan percentages:
The nature of this project does not provide opportunity for subconsultant participation.

I certify that the information listed ~~above~~ has been reviewed and is accurate to the best of my knowledge.

Firm Representative: [Signature] Date: 7/22/13

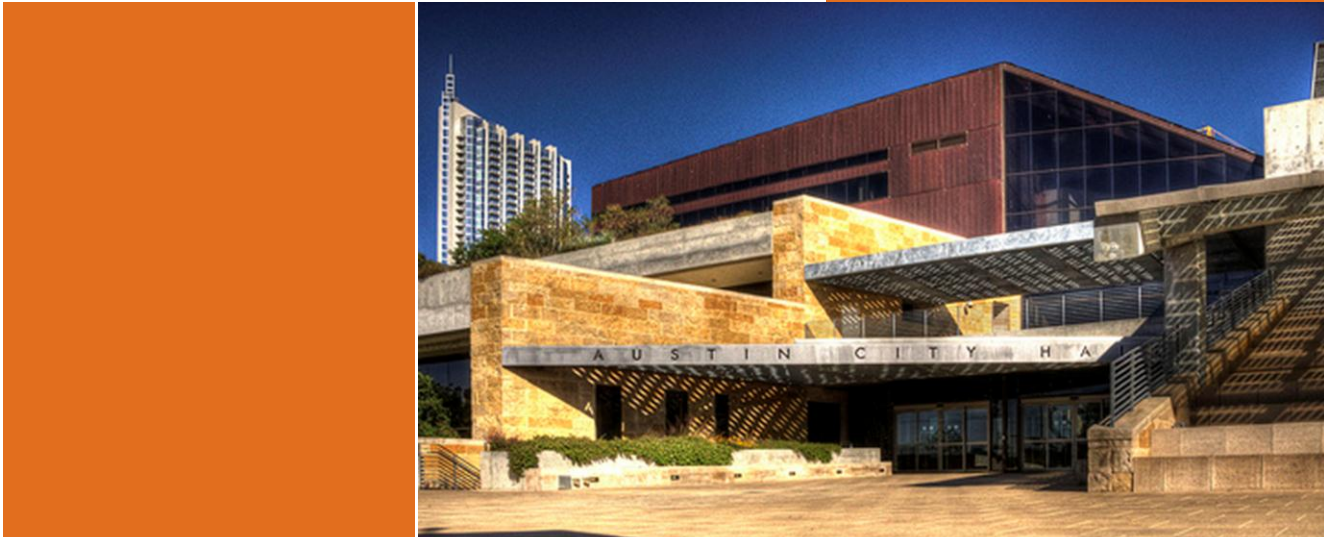
FOR COA USE ONLY:
 I have reviewed the consultant utilization and MBE/WBE participation for this assignment. A copy of this form will be forwarded to the appropriate SMBR representative.

Project Manager: [Signature] Date: 7/25/13
 Rotation List Manager: [Signature] Date: 7/25/13

Item 4d.

APPENDIX D

Project Addendum Periscope Holdings, LLC for SDC0005



City of Austin – NIGP Crosswalk Project

Original RFP: SDC0005

Commodity Codes Crosswalk
– Project Addendum – Expansion Proposal

Submitted by:

Periscope
HOLDINGS INC

211 East 7th Street, Suite 1100
Austin, TX 78701
(512) 472-9062

June 10, 2014

Ms. Robin Camp
City of Austin, Public Works Department
505 Barton Springs Road, 9th Floor, Suite 900
Austin, TX 78701
Re: Expansion of Commodity Codes Cross-walk Project

Dear Robin,

Pursuant to our recent conversations, Periscope Holdings, Inc. (Periscope) is submitting this proposal for an expansion in scope of our current Commodity Codes Cross-walk Project (original RFP number SDC0005). This project addendum reflects an updated understanding of our current project status and the City's project goals and objectives, and is consistent with the correspondence we have had over the past several months regarding "project clarifications".

Please review the enclosed document and let me know when you would like to discuss further. We are excited about continuing our work together, and look forward to a successful project outcome.

Sincerely,

Matt Walker
President, NIGP Code & Consulting Services
mwalker@periscopeholdings.com
(512) 666-9405

Periscope
HOLDINGS INC

Current Project Status

The Periscope/SNAP Management team has conducted the following key activities thus far:

- Facilitated numerous internal and external stakeholder meetings with key groups with interest in the project (e.g., vendors, Public Works, SME Groups, IT, purchasing, SMBR. COA Subcommittees);
- Provided NIGP Codes for each item contained in the Bid Item Breakdown Sheets (BIBS) provided to date;
- Built an initial crosswalk of NIGP Codes to CSI Codes and reviewed both the mapped items and the unmapped items with members of the Public Works team;
- Identified/documented key gaps and challenges in the initial crosswalk, as well as areas where direct mapping has been problematic;
- Reviewed listing of NIGP Codes for which the City has recent contracting activity, and compared those codes to the initial crosswalk developed;
- Worked collaboratively with LAN to review NIGP Codes mapped to summary level (4-digit) CSI codes and all items in the crosswalk of the highest-use NIGP Codes by the City;
- Met with the project team to review 1) matched codes; 2) codes being used by the City that are invalid NIGP Codes; and 3) uncoded items that appear to be unrelated to construction projects.

Based on the work completed and lessons learned thus far, we now need City input to finalize the NIGP-CSI crosswalk. We also stand ready to assist the City with discussions related to implementation challenges, but we require additional funding to remain involved in those discussions. This project has surpassed the initial timeline fairly substantially, in part due to delays in the completion of BIBS and in part due to difficulty in reaching a consensus on the mapping of NIGP Codes to each CSI Code in the CSI MasterFormat.

The proposed approach and revised scope is documented below.

Proposed Project Direction

The current project status is noted below, along with our proposed additional activities to be completed in a “Phase 2” project.

- **Current Project Status**

- Fees remaining from original project budget have been fully spent on the following scope:
 1. NIGP Code-CSI crosswalk for the top 2,000 NIGP Codes for which the City has contracted work and for the 4-digit CSI codes for areas deemed in-scope by the project team. Periscope team leveraged LAN resources and partners with construction/engineering expertise to provide a list of limited options for mapping. Input of City Public Works PMs is now required to address goods/services contracted for that don’t appear to have an existing corresponding CSI Code.
 2. Next step: deliver final report for current project phase, outlining findings and issues related to the work conducted by the end of this phase.
- Final billing for the original scope is anticipated at the end of June 2014, including the project retainage.

- **“Phase 2” Project**

Additional scope is now proposed for completion of additional activities. This additional scope is subject to the City’s 25% billing cap for project expansion.

- Listing of any NIGP Codes tied to certified M/WBE vendors, for which no contracting activity exists. Periscope will work with the City to identify key messaging around these vendor categories to the stakeholder groups. The City will also be in a position to communicate to the vendor community these “gaps” between contracting activity and certified vendor registration.
- Conduct internal stakeholder group meeting to discuss progress, impact of 5 versus 7 digit analysis, and review crosswalk (up to 3 meetings)
- Conduct external stakeholder group meeting, coordinate with City to post crosswalk on-line, and invite comments over a 30-day review period (plan for one group meeting, but could also include up to 2 additional meetings with specific stakeholders)
- Analyze on-line feedback and make adjustments where applicable (not-to-exceed 12 hours)
- Follow-on assistance & guidance with key stakeholder groups (including discussion of implementation considerations with IT and any specific stakeholders requiring more interaction).
- Complete 5-digit NIGP Code assignment for up to 18 Bid Item Breakdown Sheets (BIBS). Only BIBS received to-date will be addressed.
- Assess crosswalk’s impact on additional key test case(s), if applicable and as determined in conjunction with SMBR

- On-going crosswalk additions (6 month review cycles) & potential training. Note that the City is subject to an annual subscription fee for the NIGP Commodity Code and any Crosswalks.

Timing and Additional Project Cost

Periscope anticipates the conduct and completion of these additional activities during the July-October 2014 time period. The rate card included in the original (approved) proposal will serve as the basis for invoicing. Invoicing will occur upon completion of project deliverables, and the proposed delivery schedule is listed below. Total fees for this addendum will not exceed \$22,490.

PROPOSED DELIVERABLE SCHEDULE

Work product	Significant Tasks	Proposed Completion Date	Deliverable Payment Amount
Completion of internal stakeholder group meetings	- Schedule meetings with up to 3 stakeholder groups - Conduct meetings and review key crosswalk issues	7/31/14	\$7,871.50
Completion of meeting with IT to discuss implementation considerations	- Work with Project Manager to summarize key potential issues associated with the crosswalk - Identify potential areas where 5- and 7-digit codes could be preferable - Schedule meeting with eCapris team to discuss potential implementation issues associated with the crosswalk	8/31/14	\$7,871.50
Completion of Code assignment for BIBS	- Review completed BIBS from the City/LAN (up to 18 total) - Assign 5-digit NIGP Codes to each key item - Deliver coded BIBS to the City	9/30/14	\$6,747.00

Project Addendum Approval

Signature

An authorized signature below indicates acceptance of this Proposal.

Agreed:

By:

By:

Periscope Holdings, Inc.

City of Austin

Print Name

Print Name

Title

Title

Date

Date