



CSA ENGINEERING SERVICES

Infrastructure Engineering Group

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AJW-2C15C



INFRASTRUCTURE ENGINEERING/AJW-2C15

- 1. Infrastructure Engineering Center
- (Chicago and Fort Worth)
- 2. Infrastructure Support Center
- (Chicago and Fort Worth)



Infrastructure Engineering Center

➤ Implementation

- For new equipment & new facilities)
- Example:
 - 1. Engine Generator Installation
 - 2. HVAC Installation
 - 3. Etc...



Infrastructure Support Center

➤ Facility Restoration/Improvement

1. Provide technical and engineering support to districts such as:

Engineering projects for Ops and F/E



Infrastructure Support Center

- 2. Projects include: repair, improvement, or replacement of facility components such as: roads, buildings and utility systems that are beyond the District's capacity in regard to engineering, manpower, or monetary limitations



Infrastructure Support Center

- Scope of the projects include:
- 1. Civil engineering
- 2. Electrical engineering
- 3. Mechanical engineering



Infrastructure Support Center

Engineering Package includes:

Specifications

Drawings

Government Estimate

Environmental Occupational Safety and Health
Checklist



Infrastructure Support Center

Example of construction projects before and after:

Fargo, ND Tower Sanitary Waste & Vent Pipes Replacement



Before replacement





New PVC Pipes



Infrastructure Support Center

Example of construction projects before and after:

Grand Rapids, MI Airport Surveillance Radar
HVAC Replacement



Existing HVAC Units

A photograph showing two large, grey HVAC units installed on the exterior of a white building. The units are mounted on a metal frame and are surrounded by gravel. A person is visible inside the open unit on the right. The scene is set outdoors under a clear blue sky. The text "New HVAC Units" is overlaid in white on the image.

New HVAC Units



Infrastructure Support Center

Example of construction projects before and after:

Ironwood, MI Very High Frequency
Omnidirectional Range (VOR)
Engine Generator Replacement

Existing E/G



New E/G





Special Requirements

1. ORD Cab Glass Window Replacement (helicopter was used to drop the new glass)
2. Driving on Airport Requires Escort (taxiway or runway requires permission from controller)
3. Flexible Hours (some projects are required night hours) to meet air traffic operation